



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

Cover Page

Order ID : Q1812

Project ID : Former Schlumberger STC PTC Site D3868221

Client : JACOBS Engineering Group, Inc.

Lab Sample Number

Q1812-01
Q1812-02
Q1812-03

Client Sample Number

TB01-041525
RINSE-EB-TANK-041525
RINSE-EB-PUMP-041525

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. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____

Date: 4/18/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



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Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

JACOBS Engineering Group, Inc.

Project Name: Former Schlumberger STC PTC Site D3868221

Project # N/A

Chemtech Project # Q1812

Test Name: VOC-TCLVOA-10

A. Number of Samples and Date of Receipt:

3 Water samples were received on 04/15/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Diesel Range Organics, Gasoline Range Organics, Mercury, Metals ICP-RCRA, METALS RCRA, SVOC-TCL BNA -20 and VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

C. Analytical Techniques:

The analysis performed on instrument MSVOA_N were done using GC column Rxi-624SIL MS 30m, 0.25mm, 1.4 um, Cat. #13868. The analysis of VOC-TCLVOA-10 was based on method 8260D.

D. QA/ QC Samples:

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 RPD met criteria .

The Blank Spike met requirements for all samples .

The Blank Spike Duplicate met requirements for all samples .

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

The %RSD is greater than 20% in the Initial Calibration method (82N041525W.M) for Acetone is passing on Linear Regression.

The Continuous Calibration met the requirements .

The Tuning criteria met requirements.

E. Additional Comments:

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

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



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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.

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_____

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following "Results Qualifiers" are used:

| | |
|-----------|---|
| Value | If the result is a value greater than or equal to the detection limit, report the value |
| U | Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required. |
| ND | Indicates the analyte was analyzed for, but not detected |
| J | Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others. |
| B | Indicates the analyte was found in the blank as well as the sample report as "12 B". |
| E | Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis. |
| D | This flag identifies all compounds identified in an analysis at a secondary dilution factor. |
| P | This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P". |
| N | This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used. |
| A | This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product. |
| Q | Indicates the LCS did not meet the control limits requirements |

ALLIANCE 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: Q1812

MATRIX: Water

METHOD: 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 20% in the Initial Calibration method (82N041525W.M) for Acetone is passing on Linear Regression. The Continuous Calibration met the requirements . | | | ✓ |
| 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. | | | ✓ |
| 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 Blank Spike met requirements for all samples . The Blank Spike Duplicate met requirements for all samples . | | | ✓ |
| 9. Internal Standard Area/Retention Time Shift Meet Criteria Comments: | | | ✓ |
| 10. Analysis Holding Time Met If not met, list number of days exceeded for each sample: | | | ✓ |

ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092

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

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

NA NO YES

ADDITIONAL COMMENTS:

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

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.

QA REVIEW

Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1812

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication, airbill, sample management lab chronicle, login page) ✓

Check chain-of-custody for proper relinquish/return of samples ✓

Is the chain of custody signed and complete ✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts ✓

Collect information for each project id from server. Were all requirements followed ✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page ✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody ✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results ✓

Do requested analyses on Chain of Custody agree with the log-in page ✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody ✓

Were the samples received within hold time ✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle ✓

ANALYTICAL:

Was method requirement followed? ✓

Was client requirement followed? ✓

Does the case narrative summarize all QC failure? ✓

All runlogs and manual integration are reviewed for requirements ✓

All manual calculations and /or hand notations verified ✓

LAB CHRONICLE

| OrderID: | Q1812 | OrderDate: | 4/15/2025 4:26:00 PM | | | | | |
|-----------------|--------------------------------|-------------------|---|----------|-----------------|-----------|-----------|-----------------|
| Client: | JACOBS Engineering Group, Inc. | Project: | Former Schlumberger STC PTC Site D3868221 | | | | | |
| Contact: | John Ynfante | Location: | L31,VOA Ref. #3 Water | | | | | |
| <hr/> | | | | | | | | |
| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
| Q1812-01 | TB01-041525 | Water | VOC-TCLVOA-10 | 8260-Low | 04/15/25 | | | 04/15/25 |
| Q1812-02 | RINSE-EB-TANK-0415 25 | Water | VOC-TCLVOA-10 | 8260-Low | 04/15/25 | | | 04/15/25 |
| Q1812-03 | RINSE-EB-PUMP-0415 25 | Water | VOC-TCLVOA-10 | 8260-Low | 04/15/25 | | | 04/15/25 |

Hit Summary Sheet
SW-846

SDG No.: Q1812
Client: JACOBS Engineering Group, Inc.

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|-------------------|-----------------------------|-----------------------------|-----------|---------------|---|------|------|-------|
| Client ID: | RINSE-EB-TANK-041525 | | | | | | | |
| Q1812-02 | RINSE-EB-TANK-(Water | Chloroform | | 40.8 | | 0.25 | 1.00 | ug/L |
| Q1812-02 | RINSE-EB-TANK-(Water | Bromodichloromethane | | 10.7 | | 0.22 | 1.00 | ug/L |
| Q1812-02 | RINSE-EB-TANK-(Water | Dibromochloromethane | | 2.00 | | 0.18 | 1.00 | ug/L |
| | | Total Voc : | | 53.5 | | | | |
| | | Total Concentration: | | 53.5 | | | | |
| Client ID: | RINSE-EB-PUMP-041525 | | | | | | | |
| Q1812-03 | RINSE-EB-PUMP-(Water | Chloroform | | 39.5 | | 0.25 | 1.00 | ug/L |
| Q1812-03 | RINSE-EB-PUMP-(Water | Bromodichloromethane | | 10.4 | | 0.22 | 1.00 | ug/L |
| Q1812-03 | RINSE-EB-PUMP-(Water | Dibromochloromethane | | 1.80 | | 0.18 | 1.00 | ug/L |
| | | Total Voc : | | 51.7 | | | | |
| | | Total Concentration: | | 51.7 | | | | |



QC

SUMMARY

Surrogate Summary

SDG No.: Q1812

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8260-Low

| Lab Sample ID | Client ID | Parameter | Spike | Result | RecoveryQual | Limits | |
|---------------|----------------------|-----------------------|-------|--------|--------------|---------|-----------|
| | | | | | | Low | High |
| Q1812-01 | TB01-041525 | 1,2-Dichloroethane-d4 | 50 | 50.0 | 100 | 70 (74) | 130 (125) |
| | | Dibromofluoromethane | 50 | 55.1 | 110 | 70 (75) | 130 (124) |
| | | Toluene-d8 | 50 | 51.3 | 103 | 70 (86) | 130 (113) |
| | | 4-Bromofluorobenzene | 50 | 51.3 | 103 | 70 (77) | 130 (121) |
| Q1812-02 | RINSE-EB-TANK-041525 | 1,2-Dichloroethane-d4 | 50 | 49.4 | 99 | 70 (74) | 130 (125) |
| | | Dibromofluoromethane | 50 | 53.6 | 107 | 70 (75) | 130 (124) |
| | | Toluene-d8 | 50 | 50.4 | 101 | 70 (86) | 130 (113) |
| | | 4-Bromofluorobenzene | 50 | 50.3 | 101 | 70 (77) | 130 (121) |
| Q1812-03 | RINSE-EB-PUMP-041525 | 1,2-Dichloroethane-d4 | 50 | 50.3 | 101 | 70 (74) | 130 (125) |
| | | Dibromofluoromethane | 50 | 53.7 | 107 | 70 (75) | 130 (124) |
| | | Toluene-d8 | 50 | 51.0 | 102 | 70 (86) | 130 (113) |
| | | 4-Bromofluorobenzene | 50 | 52.2 | 104 | 70 (77) | 130 (121) |
| VN0416WBL01 | VN0416WBL01 | 1,2-Dichloroethane-d4 | 50 | 49.2 | 98 | 70 (74) | 130 (125) |
| | | Dibromofluoromethane | 50 | 55.0 | 110 | 70 (75) | 130 (124) |
| | | Toluene-d8 | 50 | 50.6 | 101 | 70 (86) | 130 (113) |
| | | 4-Bromofluorobenzene | 50 | 49.9 | 100 | 70 (77) | 130 (121) |
| VN0416WBS01 | VN0416WBS01 | 1,2-Dichloroethane-d4 | 50 | 50.6 | 101 | 70 (74) | 130 (125) |
| | | Dibromofluoromethane | 50 | 50.4 | 101 | 70 (75) | 130 (124) |
| | | Toluene-d8 | 50 | 50.8 | 102 | 70 (86) | 130 (113) |
| | | 4-Bromofluorobenzene | 50 | 49.8 | 100 | 70 (77) | 130 (121) |
| VN0416WBSD01 | VN0416WBSD01 | 1,2-Dichloroethane-d4 | 50 | 53.5 | 107 | 70 (74) | 130 (125) |
| | | Dibromofluoromethane | 50 | 55.7 | 111 | 70 (75) | 130 (124) |
| | | Toluene-d8 | 50 | 54.6 | 109 | 70 (86) | 130 (113) |
| | | 4-Bromofluorobenzene | 50 | 53.6 | 107 | 70 (77) | 130 (121) |

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:

Q1812

Client:

JACOBS Engineering Group, Inc.

Analytical Method:

SW8260-Low

Datafile : VN086289.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits | | |
|---------------|--------------------------------|-------|--------|------|-----|-----|------|---------|-----------|-----|
| | | | | | | | | Low | High | RPD |
| VN0416WBS01 | Dichlorodifluoromethane | 20 | 18.8 | ug/L | 94 | | | 40 (69) | 160 (116) | |
| | Chloromethane | 20 | 17.2 | ug/L | 86 | | | 40 (65) | 160 (116) | |
| | Vinyl chloride | 20 | 17.8 | ug/L | 89 | | | 70 (65) | 130 (117) | |
| | Bromomethane | 20 | 19.7 | ug/L | 99 | | | 40 (58) | 160 (125) | |
| | Chloroethane | 20 | 17.3 | ug/L | 86 | | | 40 (56) | 160 (128) | |
| | Trichlorofluoromethane | 20 | 17.9 | ug/L | 90 | | | 40 (73) | 160 (115) | |
| | 1,1,2-Trichlorotrifluoroethane | 20 | 18.2 | ug/L | 91 | | | 70 (80) | 130 (112) | |
| | 1,1-Dichloroethene | 20 | 17.1 | ug/L | 86 | | | 70 (74) | 130 (110) | |
| | Acetone | 100 | 100 | ug/L | 100 | | | 40 (60) | 160 (125) | |
| | Carbon disulfide | 20 | 16.8 | ug/L | 84 | | | 40 (64) | 160 (112) | |
| | Methyl tert-butyl Ether | 20 | 17.5 | ug/L | 88 | | | 70 (78) | 130 (114) | |
| | Methyl Acetate | 20 | 17.3 | ug/L | 86 | | | 70 (67) | 130 (125) | |
| | Methylene Chloride | 20 | 17.1 | ug/L | 86 | | | 70 (72) | 130 (114) | |
| | trans-1,2-Dichloroethene | 20 | 17.4 | ug/L | 87 | | | 70 (75) | 130 (108) | |
| | 1,1-Dichloroethane | 20 | 17.7 | ug/L | 89 | | | 70 (78) | 130 (112) | |
| | Cyclohexane | 20 | 17.5 | ug/L | 88 | | | 70 (75) | 130 (110) | |
| | 2-Butanone | 100 | 93.4 | ug/L | 93 | | | 40 (65) | 160 (122) | |
| | Carbon Tetrachloride | 20 | 17.9 | ug/L | 90 | | | 70 (77) | 130 (113) | |
| | cis-1,2-Dichloroethene | 20 | 17.5 | ug/L | 88 | | | 70 (77) | 130 (110) | |
| | Bromochloromethane | 20 | 25.4 | ug/L | 127 | | | 70 (70) | 130 (124) | |
| | Chloroform | 20 | 17.5 | ug/L | 88 | | | 70 (79) | 130 (113) | |
| | 1,1,1-Trichloroethane | 20 | 17.9 | ug/L | 90 | | | 70 (80) | 130 (108) | |
| | Methylcyclohexane | 20 | 18.1 | ug/L | 91 | | | 70 (72) | 130 (115) | |
| | Benzene | 20 | 17.9 | ug/L | 90 | | | 70 (82) | 130 (109) | |
| | 1,2-Dichloroethane | 20 | 17.7 | ug/L | 89 | | | 70 (80) | 130 (115) | |
| | Trichloroethene | 20 | 18.2 | ug/L | 91 | | | 70 (77) | 130 (113) | |
| | 1,2-Dichloropropane | 20 | 17.8 | ug/L | 89 | | | 70 (83) | 130 (111) | |
| | Bromodichloromethane | 20 | 18.1 | ug/L | 91 | | | 70 (83) | 130 (110) | |
| | 4-Methyl-2-Pentanone | 100 | 89.9 | ug/L | 90 | | | 40 (74) | 160 (118) | |
| | Toluene | 20 | 18.0 | ug/L | 90 | | | 70 (82) | 130 (110) | |
| | t-1,3-Dichloropropene | 20 | 18.2 | ug/L | 91 | | | 70 (79) | 130 (110) | |
| | cis-1,3-Dichloropropene | 20 | 17.7 | ug/L | 89 | | | 70 (82) | 130 (110) | |
| | 1,1,2-Trichloroethane | 20 | 17.9 | ug/L | 90 | | | 70 (83) | 130 (112) | |
| | 2-Hexanone | 100 | 92.6 | ug/L | 93 | | | 40 (73) | 160 (117) | |
| | Dibromochloromethane | 20 | 18.0 | ug/L | 90 | | | 70 (82) | 130 (110) | |
| | 1,2-Dibromoethane | 20 | 18.1 | ug/L | 91 | | | 70 (81) | 130 (110) | |
| | Tetrachloroethene | 20 | 18.6 | ug/L | 93 | | | 70 (67) | 130 (123) | |
| | Chlorobenzene | 20 | 17.9 | ug/L | 90 | | | 70 (82) | 130 (109) | |
| | Ethyl Benzene | 20 | 18.0 | ug/L | 90 | | | 70 (83) | 130 (109) | |
| | m/p-Xylenes | 40 | 36.3 | ug/L | 91 | | | 70 (82) | 130 (110) | |
| | o-Xylene | 20 | 18.0 | ug/L | 90 | | | 70 (83) | 130 (109) | |
| | Styrene | 20 | 18.1 | ug/L | 91 | | | 70 (80) | 130 (111) | |
| | Bromoform | 20 | 18.1 | ug/L | 91 | | | 70 (79) | 130 (109) | |
| | Isopropylbenzene | 20 | 17.8 | ug/L | 89 | | | 70 (83) | 130 (112) | |
| | 1,1,2,2-Tetrachloroethane | 20 | 17.1 | ug/L | 86 | | | 70 (76) | 130 (118) | |
| | 1,3-Dichlorobenzene | 20 | 18.0 | ug/L | 90 | | | 70 (82) | 130 (108) | |
| | 1,4-Dichlorobenzene | 20 | 17.9 | ug/L | 90 | | | 70 (82) | 130 (107) | |
| | 1,2-Dichlorobenzene | 20 | 17.9 | ug/L | 90 | | | 70 (82) | 130 (109) | |

() = LABORATORY INHOUSE LIMIT



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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1812

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8260-Low

Datafile : VN086289.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits | | |
|---------------|-----------------------------|-------|--------|------|-----|-----|------|---------|-----------|-----|
| | | | | | | | | Low | High | RPD |
| VN0416WBS01 | 1,2-Dibromo-3-Chloropropane | 20 | 18.7 | ug/L | 94 | | | 40 (68) | 160 (112) | |
| | 1,2,4-Trichlorobenzene | 20 | 19.4 | ug/L | 97 | | | 70 (75) | 130 (113) | |
| | 1,2,3-Trichlorobenzene | 20 | 19.0 | ug/L | 95 | | | 70 (76) | 130 (114) | |

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:

Q1812

Client:

JACOBS Engineering Group, Inc.

Analytical Method:

SW8260-Low

Datafile : VN086292.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits | | |
|---------------|--------------------------------|-------|--------|------|-----|-----|------|---------|-----------|---------|
| | | | | | | | | Low | High | RPD |
| VN0416WBSD01 | Dichlorodifluoromethane | 20 | 20.7 | ug/L | 104 | 10 | | 40 (69) | 160 (116) | 20 (20) |
| | Chloromethane | 20 | 19.2 | ug/L | 96 | 11 | | 40 (65) | 160 (116) | 20 (20) |
| | Vinyl chloride | 20 | 19.6 | ug/L | 98 | 10 | | 70 (65) | 130 (117) | 20 (20) |
| | Bromomethane | 20 | 21.7 | ug/L | 109 | 10 | | 40 (58) | 160 (125) | 20 (20) |
| | Chloroethane | 20 | 18.9 | ug/L | 95 | 10 | | 40 (56) | 160 (128) | 20 (20) |
| | Trichlorodifluoromethane | 20 | 19.9 | ug/L | 100 | 11 | | 40 (73) | 160 (115) | 20 (20) |
| | 1,1,2-Trichlorotrifluoroethane | 20 | 19.7 | ug/L | 99 | 8 | | 70 (80) | 130 (112) | 20 (20) |
| | 1,1-Dichloroethene | 20 | 19.3 | ug/L | 97 | 12 | | 70 (74) | 130 (110) | 20 (20) |
| | Acetone | 100 | 110 | ug/L | 110 | 10 | | 40 (60) | 160 (125) | 20 (20) |
| | Carbon disulfide | 20 | 18.3 | ug/L | 92 | 9 | | 40 (64) | 160 (112) | 20 (20) |
| | Methyl tert-butyl Ether | 20 | 19.2 | ug/L | 96 | 9 | | 70 (78) | 130 (114) | 20 (20) |
| | Methyl Acetate | 20 | 18.3 | ug/L | 92 | 7 | | 70 (67) | 130 (125) | 20 (20) |
| | Methylene Chloride | 20 | 19.5 | ug/L | 98 | 13 | | 70 (72) | 130 (114) | 20 (20) |
| | trans-1,2-Dichloroethene | 20 | 19.4 | ug/L | 97 | 11 | | 70 (75) | 130 (108) | 20 (20) |
| | 1,1-Dichloroethane | 20 | 19.2 | ug/L | 96 | 8 | | 70 (78) | 130 (112) | 20 (20) |
| | Cyclohexane | 20 | 19.2 | ug/L | 96 | 9 | | 70 (75) | 130 (110) | 20 (20) |
| | 2-Butanone | 100 | 98.0 | ug/L | 98 | 5 | | 40 (65) | 160 (122) | 20 (20) |
| | Carbon Tetrachloride | 20 | 19.9 | ug/L | 100 | 11 | | 70 (77) | 130 (113) | 20 (20) |
| | cis-1,2-Dichloroethene | 20 | 19.2 | ug/L | 96 | 9 | | 70 (77) | 130 (110) | 20 (20) |
| | Bromochloromethane | 20 | 22.3 | ug/L | 112 | 13 | | 70 (70) | 130 (124) | 20 (20) |
| | Chloroform | 20 | 19.3 | ug/L | 97 | 10 | | 70 (79) | 130 (113) | 20 (20) |
| | 1,1,1-Trichloroethane | 20 | 19.5 | ug/L | 98 | 9 | | 70 (80) | 130 (108) | 20 (20) |
| | Methylcyclohexane | 20 | 19.7 | ug/L | 99 | 8 | | 70 (72) | 130 (115) | 20 (20) |
| | Benzene | 20 | 19.8 | ug/L | 99 | 10 | | 70 (82) | 130 (109) | 20 (20) |
| | 1,2-Dichloroethane | 20 | 19.9 | ug/L | 100 | 12 | | 70 (80) | 130 (115) | 20 (20) |
| | Trichloroethene | 20 | 20.0 | ug/L | 100 | 9 | | 70 (77) | 130 (113) | 20 (20) |
| | 1,2-Dichloropropane | 20 | 19.6 | ug/L | 98 | 10 | | 70 (83) | 130 (111) | 20 (20) |
| | Bromodichloromethane | 20 | 19.8 | ug/L | 99 | 8 | | 70 (83) | 130 (110) | 20 (20) |
| | 4-Methyl-2-Pentanone | 100 | 100 | ug/L | 100 | 11 | | 40 (74) | 160 (118) | 20 (20) |
| | Toluene | 20 | 19.8 | ug/L | 99 | 10 | | 70 (82) | 130 (110) | 20 (20) |
| | t-1,3-Dichloropropene | 20 | 19.9 | ug/L | 100 | 9 | | 70 (79) | 130 (110) | 20 (20) |
| | cis-1,3-Dichloropropene | 20 | 19.6 | ug/L | 98 | 10 | | 70 (82) | 130 (110) | 20 (20) |
| | 1,1,2-Trichloroethane | 20 | 19.7 | ug/L | 99 | 10 | | 70 (83) | 130 (112) | 20 (20) |
| | 2-Hexanone | 100 | 99.8 | ug/L | 100 | 7 | | 40 (73) | 160 (117) | 20 (20) |
| | Dibromochloromethane | 20 | 20.1 | ug/L | 101 | 12 | | 70 (82) | 130 (110) | 20 (20) |
| | 1,2-Dibromoethane | 20 | 20.2 | ug/L | 101 | 10 | | 70 (81) | 130 (110) | 20 (20) |
| | Tetrachloroethene | 20 | 20.6 | ug/L | 103 | 10 | | 70 (67) | 130 (123) | 20 (20) |
| | Chlorobenzene | 20 | 19.7 | ug/L | 99 | 10 | | 70 (82) | 130 (109) | 20 (20) |
| | Ethyl Benzene | 20 | 19.9 | ug/L | 100 | 11 | | 70 (83) | 130 (109) | 20 (20) |
| | m/p-Xylenes | 40 | 39.8 | ug/L | 100 | 9 | | 70 (82) | 130 (110) | 20 (20) |
| | o-Xylene | 20 | 19.9 | ug/L | 100 | 11 | | 70 (83) | 130 (109) | 20 (20) |
| | Styrene | 20 | 20.0 | ug/L | 100 | 9 | | 70 (80) | 130 (111) | 20 (20) |
| | Bromoform | 20 | 20.3 | ug/L | 102 | 11 | | 70 (79) | 130 (109) | 20 (20) |
| | Isopropylbenzene | 20 | 20.0 | ug/L | 100 | 12 | | 70 (83) | 130 (112) | 20 (20) |
| | 1,1,2,2-Tetrachloroethane | 20 | 19.8 | ug/L | 99 | 14 | | 70 (76) | 130 (118) | 20 (20) |
| | 1,3-Dichlorobenzene | 20 | 20.1 | ug/L | 101 | 12 | | 70 (82) | 130 (108) | 20 (20) |
| | 1,4-Dichlorobenzene | 20 | 19.9 | ug/L | 100 | 11 | | 70 (82) | 130 (107) | 20 (20) |
| | 1,2-Dichlorobenzene | 20 | 20.5 | ug/L | 103 | 13 | | 70 (82) | 130 (109) | 20 (20) |

() = LABORATORY INHOUSE LIMIT



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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1812

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8260-Low

Datafile : VN086292.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits | | |
|---------------|-----------------------------|-------|--------|------|-----|-----|------|---------|-----------|---------|
| | | | | | | | | Low | High | RPD |
| VN0416WBSD01 | 1,2-Dibromo-3-Chloropropane | 20 | 20.7 | ug/L | 104 | 10 | | 40 (68) | 160 (112) | 20 (20) |
| | 1,2,4-Trichlorobenzene | 20 | 20.1 | ug/L | 101 | 4 | | 70 (75) | 130 (113) | 20 (20) |
| | 1,2,3-Trichlorobenzene | 20 | 19.8 | ug/L | 99 | 4 | | 70 (76) | 130 (114) | 20 (20) |



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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0416WBL01

Lab Name: CHEMTECH

Contract: JACO05

Lab Code: CHEM Case No.: Q1812

SAS No.: Q1812 SDG NO.: Q1812

Lab File ID: VN086288.D

Lab Sample ID: VN0416WBL01

Date Analyzed: 04/16/2025

Time Analyzed: 10:12

GC Column: RXI-624 ID: 0.25 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA_N

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|----------------------|------------------|----------------|------------------|
| VN0416WBS01 | VN0416WBS01 | VN086289.D | 04/16/2025 |
| VN0416WBSD01 | VN0416WBSD01 | VN086292.D | 04/16/2025 |
| RINSE-EB-TANK-041525 | Q1812-02 | VN086293.D | 04/16/2025 |
| RINSE-EB-PUMP-041525 | Q1812-03 | VN086294.D | 04/16/2025 |
| TB01-041525 | Q1812-01 | VN086295.D | 04/16/2025 |

COMMENTS:



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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

| | | | |
|----------------|-----------------------|---------------------|------------|
| Lab Name: | CHEMTECH | Contract: | JAC005 |
| Lab Code: | CHEM | Case No.: | Q1812 |
| Lab File ID: | VN086276.D | SAS No.: | Q1812 |
| Instrument ID: | MSVOA_N | SDG NO.: | Q1812 |
| GC Column: | RXI-624 ID: 0.25 (mm) | BFB Injection Date: | 04/15/2025 |
| | | BFB Injection Time: | 10:47 |
| | | Heated Purge: | Y/N |
| | | | N |

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 50 | 15.0 - 40.0% of mass 95 | 19.6 |
| 75 | 30.0 - 60.0% of mass 95 | 50.8 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.3 |
| 173 | Less than 2.0% of mass 174 | 0.4 (0.6) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 67.6 |
| 175 | 5.0 - 9.0% of mass 174 | 5.1 (7.6) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 64.6 (95.5) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 4.4 (6.7) 2 |

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|-------------------|------------------|----------------|------------------|------------------|
| VSTDICC001 | VSTDICC001 | VN086277.D | 04/15/2025 | 11:29 |
| VSTDICC005 | VSTDICC005 | VN086278.D | 04/15/2025 | 12:21 |
| VSTDICC010 | VSTDICC010 | VN086279.D | 04/15/2025 | 12:45 |
| VSTDICC020 | VSTDICC020 | VN086280.D | 04/15/2025 | 13:09 |
| VSTDICCC050 | VSTDICCC050 | VN086281.D | 04/15/2025 | 13:51 |
| VSTDICC100 | VSTDICC100 | VN086282.D | 04/15/2025 | 14:29 |



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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

| | | | |
|----------------|-----------------------|---------------------|------------|
| Lab Name: | CHEMTECH | Contract: | JAC005 |
| Lab Code: | CHEM | Case No.: | Q1812 |
| Lab File ID: | VN086285.D | SAS No.: | Q1812 |
| Instrument ID: | MSVOA_N | BFB Injection Date: | 04/16/2025 |
| GC Column: | RXI-624 ID: 0.25 (mm) | BFB Injection Time: | 08:38 |
| | | Heated Purge: | Y/N |

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 50 | 15.0 - 40.0% of mass 95 | 19.5 |
| 75 | 30.0 - 60.0% of mass 95 | 50.7 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.5 |
| 173 | Less than 2.0% of mass 174 | 0.4 (0.6) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 69.1 |
| 175 | 5.0 - 9.0% of mass 174 | 5.1 (7.4) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 67.2 (97.3) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 4.2 (6.2) 2 |

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----------------------|------------------|----------------|------------------|------------------|
| VSTDCCC050 | VSTDCCC050 | VN086286.D | 04/16/2025 | 09:14 |
| VN0416WBL01 | VN0416WBL01 | VN086288.D | 04/16/2025 | 10:12 |
| VN0416WBS01 | VN0416WBS01 | VN086289.D | 04/16/2025 | 11:52 |
| VN0416WBSD01 | VN0416WBSD01 | VN086292.D | 04/16/2025 | 13:14 |
| RINSE-EB-TANK-041525 | Q1812-02 | VN086293.D | 04/16/2025 | 13:38 |
| RINSE-EB-PUMP-041525 | Q1812-03 | VN086294.D | 04/16/2025 | 14:02 |
| TB01-041525 | Q1812-01 | VN086295.D | 04/16/2025 | 14:26 |



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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: JAC005
Lab Code: CHEM Case No.: Q1812 SAS No.: Q1812 SDG No.: Q1812
Lab File ID: VN086286.D Date Analyzed: 04/16/2025
Instrument ID: MSVOA_N Time Analyzed: 09:14
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

| | IS1 AREA # | RT # | IS2 AREA # | RT # | IS3 AREA # | RT # |
|----------------------|---------------|-------|---------------|-------|---------------|--------|
| 12 HOUR STD | 235673 | 8.22 | 430893 | 9.09 | 383563 | 11.87 |
| UPPER LIMIT | 471346 | 8.724 | 861786 | 9.594 | 767126 | 12.365 |
| LOWER LIMIT | 117837 | 7.724 | 215447 | 8.594 | 191782 | 11.365 |
| EPA SAMPLE NO. | | | | | | |
| TB01-041525 | 185374 | 8.22 | 360844 | 9.10 | 336378 | 11.87 |
| RINSE-EB-TANK-041525 | 187101 | 8.22 | 358779 | 9.10 | 327128 | 11.87 |
| RINSE-EB-PUMP-041525 | 180932 | 8.22 | 354597 | 9.10 | 332731 | 11.87 |
| VN0416WBL01 | 215943 | 8.22 | 412690 | 9.10 | 374988 | 11.87 |
| VN0416WBS01 | 282564 | 8.22 | 522491 | 9.09 | 460155 | 11.87 |
| VN0416WBSD01 | 223172 | 8.22 | 407332 | 9.10 | 359125 | 11.87 |

IS1 = Pentafluorobenzene

IS2 = 1,4-Difluorobenzene

IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.



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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: JACO05
Lab Code: CHEM Case No.: Q1812 SAS No.: Q1812 SDG NO.: Q1812
Lab File ID: VN086286.D Date Analyzed: 04/16/2025
Instrument ID: MSVOA_N Time Analyzed: 09:14
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

| | IS4 AREA # | RT # | | | | |
|----------------------|---------------|--------|--|--|--|--|
| 12 HOUR STD | 177295 | 13.788 | | | | |
| | 354590 | 14.288 | | | | |
| | 88647.5 | 13.288 | | | | |
| EPA SAMPLE NO. | | | | | | |
| TB01-041525 | 145687 | 13.79 | | | | |
| RINSE-EB-TANK-041525 | 145489 | 13.79 | | | | |
| RINSE-EB-PUMP-041525 | 151028 | 13.79 | | | | |
| VN0416WBL01 | 162383 | 13.79 | | | | |
| VN0416WBS01 | 208645 | 13.79 | | | | |
| VN0416WBSD01 | 160957 | 13.79 | | | | |

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.



SAMPLE

DATA



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Report of Analysis

| | | | | | | |
|--------------------|---|--------|------|-----------------|---------------|----|
| Client: | JACOBS Engineering Group, Inc. | | | Date Collected: | 04/15/25 | |
| Project: | Former Schlumberger STC PTC Site D3868221 | | | Date Received: | 04/15/25 | |
| Client Sample ID: | TB01-041525 | | | SDG No.: | Q1812 | |
| Lab Sample ID: | Q1812-01 | | | Matrix: | Water | |
| Analytical Method: | SW8260 | | | % Solid: | 0 | |
| Sample Wt/Vol: | 5 | Units: | mL | Final Vol: | 5000 | uL |
| Soil Aliquot Vol: | uL | | | Test: | VOC-TCLVOA-10 | |
| GC Column: | RXI-624 | ID : | 0.25 | Level : | LOW | |
| Prep Method : | | | | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|-------------------|-----------|-----------|----------------|---------------|
| VN086295.D | 1 | | 04/16/25 14:26 | VN041625 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|----------------|--------------------------------|-------|-----------|-------|------------|-------|
| TARGETS | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 74-87-3 | Chloromethane | 0.32 | U | 0.32 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 0.26 | U | 0.26 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 1.40 | U | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 0.47 | U | 0.47 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 0.33 | U | 0.33 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.25 | U | 0.25 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 67-64-1 | Acetone | 1.50 | U | 1.50 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 0.21 | U | 0.21 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-20-9 | Methyl Acetate | 0.27 | U | 0.27 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 0.28 | U | 0.28 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 0.23 | U | 0.23 | 1.00 | ug/L |
| 110-82-7 | Cyclohexane | 1.50 | U | 1.50 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 0.98 | U | 0.98 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 74-97-5 | Bromochloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 0.25 | U | 0.25 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 0.16 | U | 0.16 | 1.00 | ug/L |
| 71-43-2 | Benzene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 0.090 | U | 0.090 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.68 | U | 0.68 | 5.00 | ug/L |
| 108-88-3 | Toluene | 0.14 | U | 0.14 | 1.00 | ug/L |



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Report of Analysis

| | | | | | | |
|--------------------|---|--------|------|-----------------|---------------|----|
| Client: | JACOBS Engineering Group, Inc. | | | Date Collected: | 04/15/25 | |
| Project: | Former Schlumberger STC PTC Site D3868221 | | | Date Received: | 04/15/25 | |
| Client Sample ID: | TB01-041525 | | | SDG No.: | Q1812 | |
| Lab Sample ID: | Q1812-01 | | | Matrix: | Water | |
| Analytical Method: | SW8260 | | | % Solid: | 0 | |
| Sample Wt/Vol: | 5 | Units: | mL | Final Vol: | 5000 | uL |
| Soil Aliquot Vol: | uL | | | Test: | VOC-TCLVOA-10 | |
| GC Column: | RXI-624 | ID : | 0.25 | Level : | LOW | |
| Prep Method : | | | | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|-------------------|-----------|-----------|----------------|---------------|
| VN086295.D | 1 | | 04/16/25 14:26 | VN041625 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---------------------------|-----------------------------|--------|-----------|---------------------|------------|---------|
| 10061-02-6 | t-1,3-Dichloropropene | 0.17 | U | 0.17 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 0.89 | U | 0.89 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 0.18 | U | 0.18 | 1.00 | ug/L |
| 106-93-4 | 1,2-Dibromoethane | 0.15 | U | 0.15 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 0.13 | U | 0.13 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 0.24 | U | 0.24 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-42-5 | Styrene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 0.19 | U | 0.19 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.26 | U | 0.26 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.53 | U | 0.53 | 1.00 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| SURROGATES | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 50.0 | | 70 (74) - 130 (125) | 100% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 55.1 | | 70 (75) - 130 (124) | 110% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 51.3 | | 70 (86) - 130 (113) | 103% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 51.3 | | 70 (77) - 130 (121) | 103% | SPK: 50 |
| INTERNAL STANDARDS | | | | | | |
| 363-72-4 | Pentafluorobenzene | 185000 | 8.224 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 361000 | 9.1 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 336000 | 11.865 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 146000 | 13.788 | | | |



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Report of Analysis

| | | | | | |
|--------------------|---|--------|------|-----------------|---------------|
| Client: | JACOBS Engineering Group, Inc. | | | Date Collected: | 04/15/25 |
| Project: | Former Schlumberger STC PTC Site D3868221 | | | Date Received: | 04/15/25 |
| Client Sample ID: | TB01-041525 | | | SDG No.: | Q1812 |
| Lab Sample ID: | Q1812-01 | | | Matrix: | Water |
| Analytical Method: | SW8260 | | | % Solid: | 0 |
| Sample Wt/Vol: | 5 | Units: | mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | | | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 | ID : | 0.25 | Level : | LOW |
| Prep Method : | | | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|-------------------|-----------|-----------|----------------|---------------|
| VN086295.D | 1 | | 04/16/25 14:26 | VN041625 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|------------|-----------|-------|-----------|-----|------------|-------|
|------------|-----------|-------|-----------|-----|------------|-------|

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
 Data File : VN086295.D
 Acq On : 16 Apr 2025 14:26
 Operator : JC\MD
 Sample : Q1812-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB01-041525

Quant Time: Apr 17 03:07:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 04:19:23 2025
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 8.224 | 168 | 185374 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 9.100 | 114 | 360844 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.865 | 117 | 336378 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.788 | 152 | 145687 | 50.000 | ug/l | 0.00 |

| System Monitoring Compounds | | | | | | |
|-----------------------------|--------|-------|----------|----------|------|----------|
| 33) 1,2-Dichloroethane-d4 | 8.577 | 65 | 134272 | 49.951 | ug/l | 0.00 |
| Spiked Amount | 50.000 | Range | 74 - 125 | Recovery | = | 99.900% |
| 35) Dibromofluoromethane | 8.165 | 113 | 92292 | 55.109 | ug/l | 0.00 |
| Spiked Amount | 50.000 | Range | 75 - 124 | Recovery | = | 110.220% |
| 50) Toluene-d8 | 10.565 | 98 | 459007 | 51.283 | ug/l | 0.00 |
| Spiked Amount | 50.000 | Range | 86 - 113 | Recovery | = | 102.560% |
| 62) 4-Bromofluorobenzene | 12.847 | 95 | 167350 | 51.261 | ug/l | 0.00 |
| Spiked Amount | 50.000 | Range | 77 - 121 | Recovery | = | 102.520% |

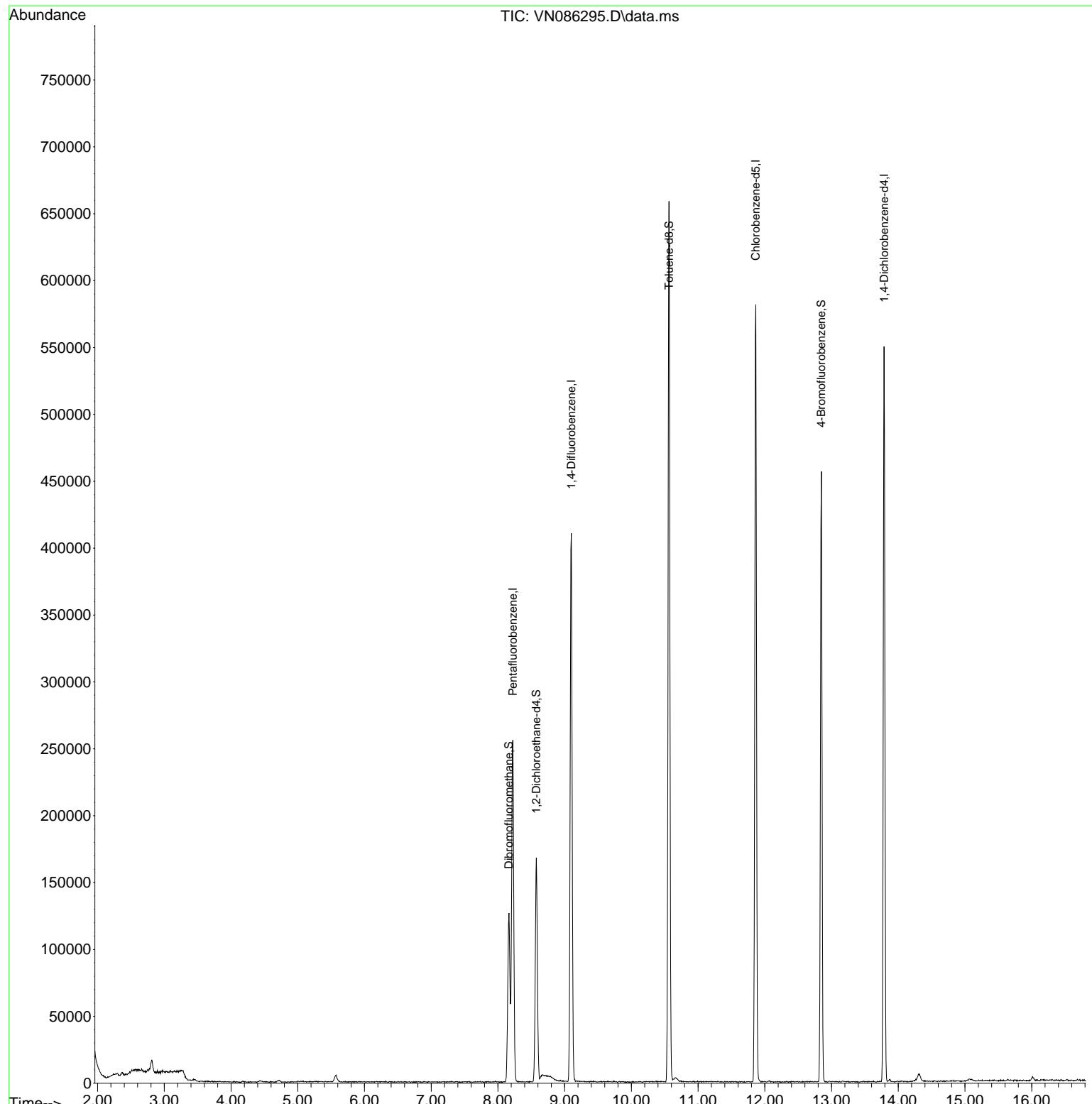
| Target Compounds | Qvalue |
|------------------|--------|
| <hr/> | |

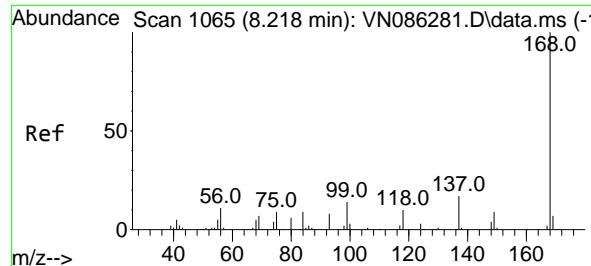
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
Data File : VN086295.D
Acq On : 16 Apr 2025 14:26
Operator : JC\MD
Sample : Q1812-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB01-041525

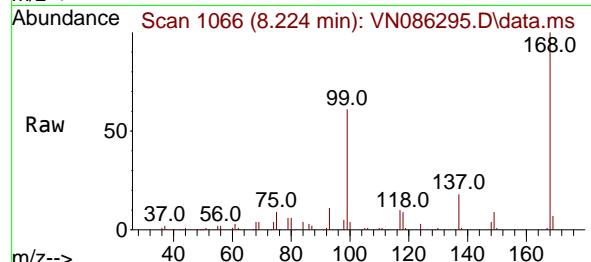
Quant Time: Apr 17 03:07:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 16 04:19:23 2025
Response via : Initial Calibration



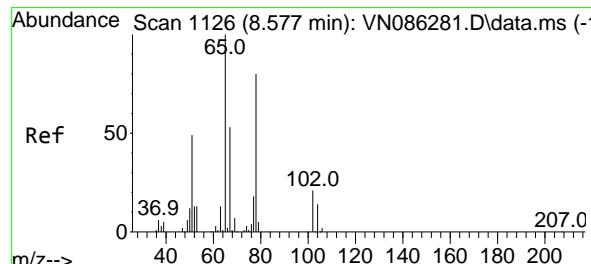
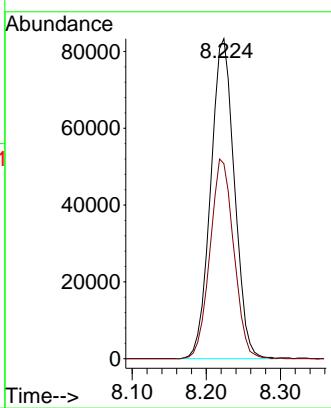
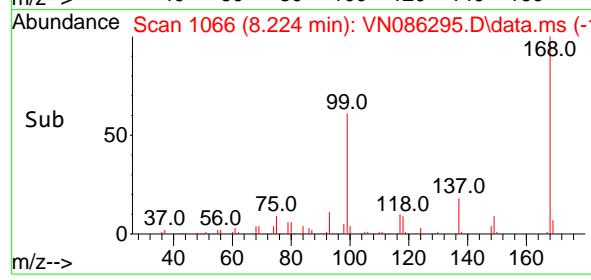


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN086295.D
Acq: 16 Apr 2025 14:26

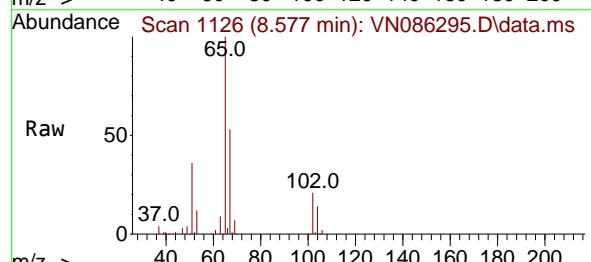
Instrument : MSVOA_N
ClientSampleId : TB01-041525



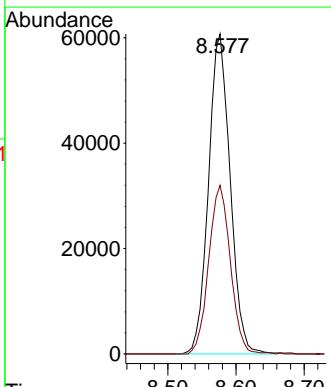
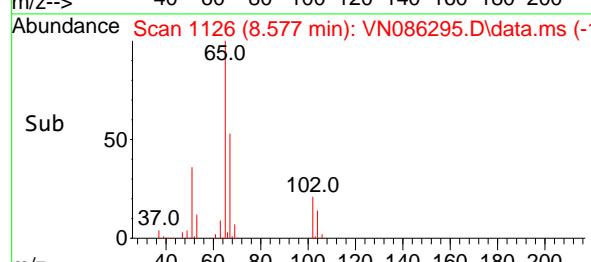
Tgt Ion:168 Resp: 185374
Ion Ratio Lower Upper
168 100
99 60.9 52.5 78.7

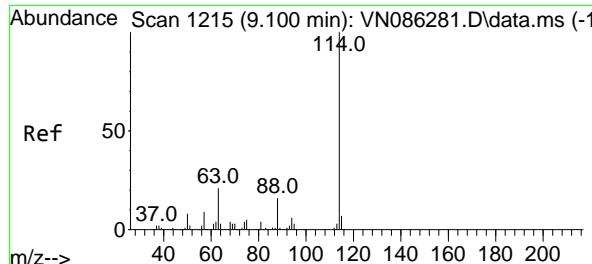


#33
1,2-Dichloroethane-d4
Concen: 49.951 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086295.D
Acq: 16 Apr 2025 14:26



Tgt Ion: 65 Resp: 134272
Ion Ratio Lower Upper
65 100
67 52.7 0.0 106.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086295.D

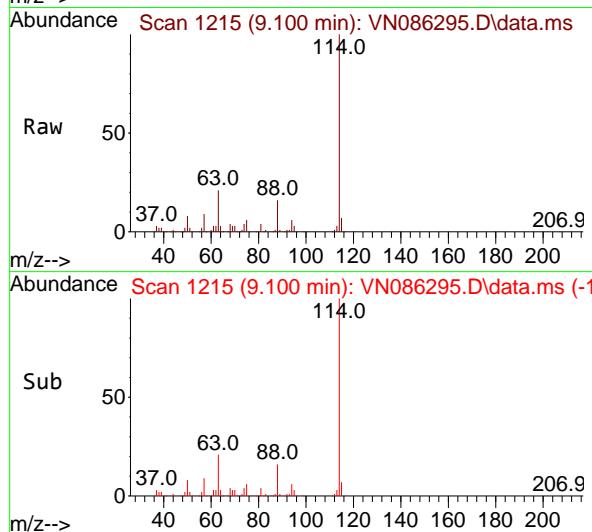
Acq: 16 Apr 2025 14:26

Instrument:

MSVOA_N

ClientSampleId :

TB01-041525



Tgt Ion:114 Resp: 360844

Ion Ratio Lower Upper

114 100

63 21.2

88 16.1

0.0 42.6

0.0 31.8

Abundance

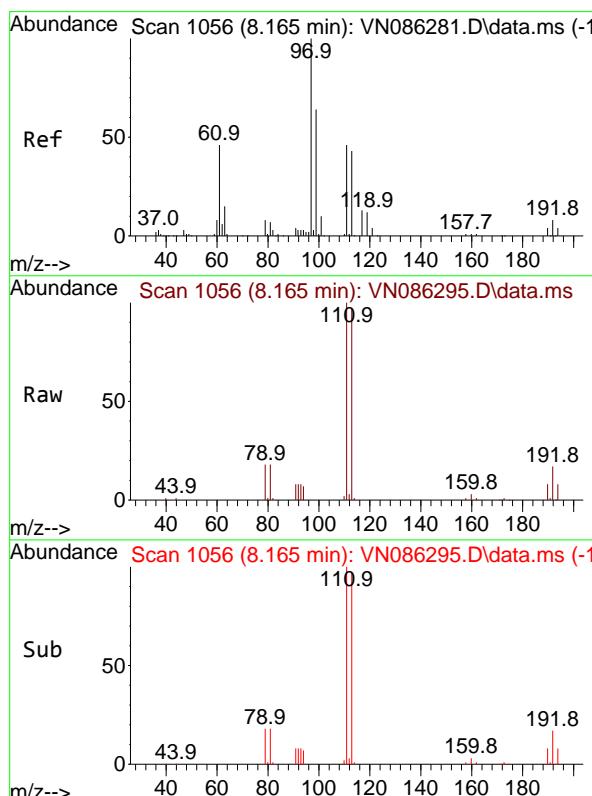
150000

100000

50000

0

Time--> 9.00 9.10 9.20



#35

Dibromofluoromethane

Concen: 55.109 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086295.D

Acq: 16 Apr 2025 14:26

Tgt Ion:113 Resp: 92292

Ion Ratio Lower Upper

113 100

111 103.6

192 17.0

83.4 125.0

13.7 20.5

Abundance

40000

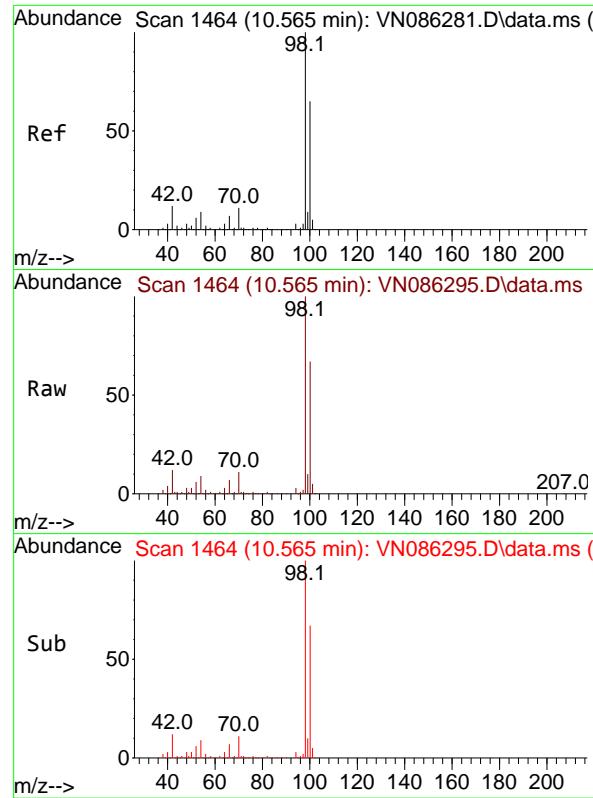
30000

20000

10000

0

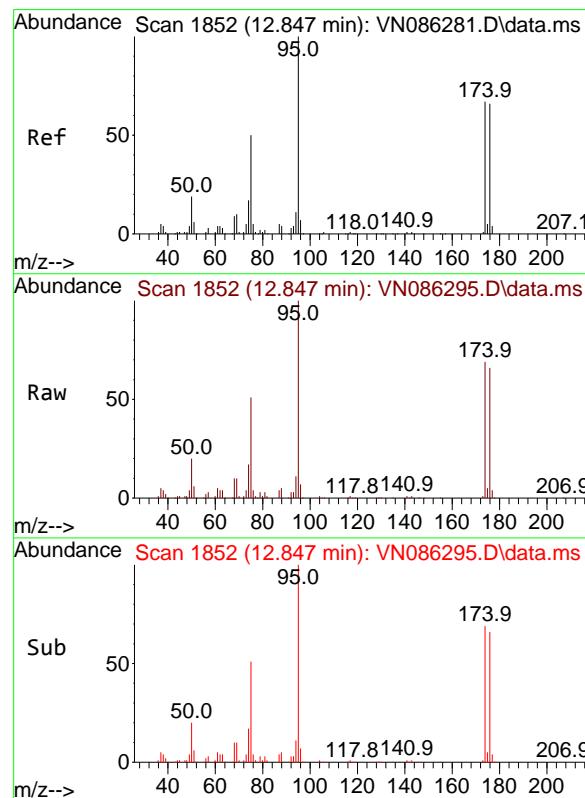
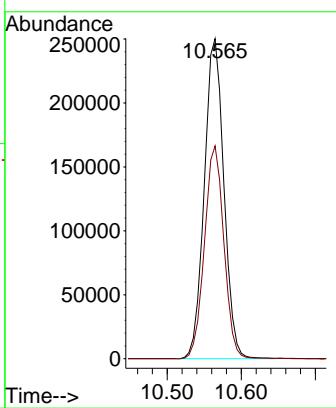
Time--> 8.10 8.20 8.30



#50
Toluene-d8
Concen: 51.283 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086295.D
Acq: 16 Apr 2025 14:26

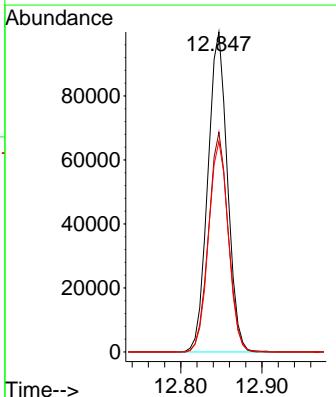
Instrument: MSVOA_N
ClientSampleId: TB01-041525

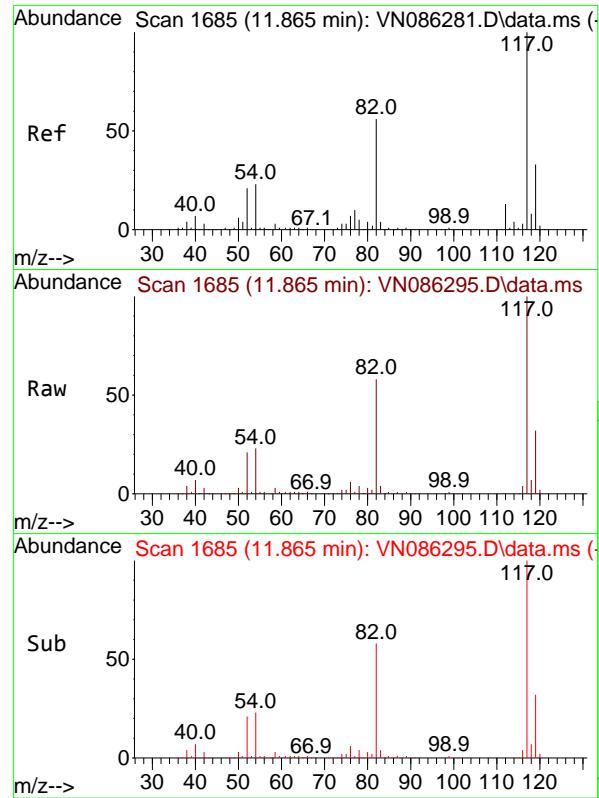
Tgt Ion: 98 Resp: 459007
Ion Ratio Lower Upper
98 100
100 65.9 52.5 78.7



#62
4-Bromofluorobenzene
Concen: 51.261 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086295.D
Acq: 16 Apr 2025 14:26

Tgt Ion: 95 Resp: 167350
Ion Ratio Lower Upper
95 100
174 68.7 0.0 133.4
176 66.4 0.0 129.2

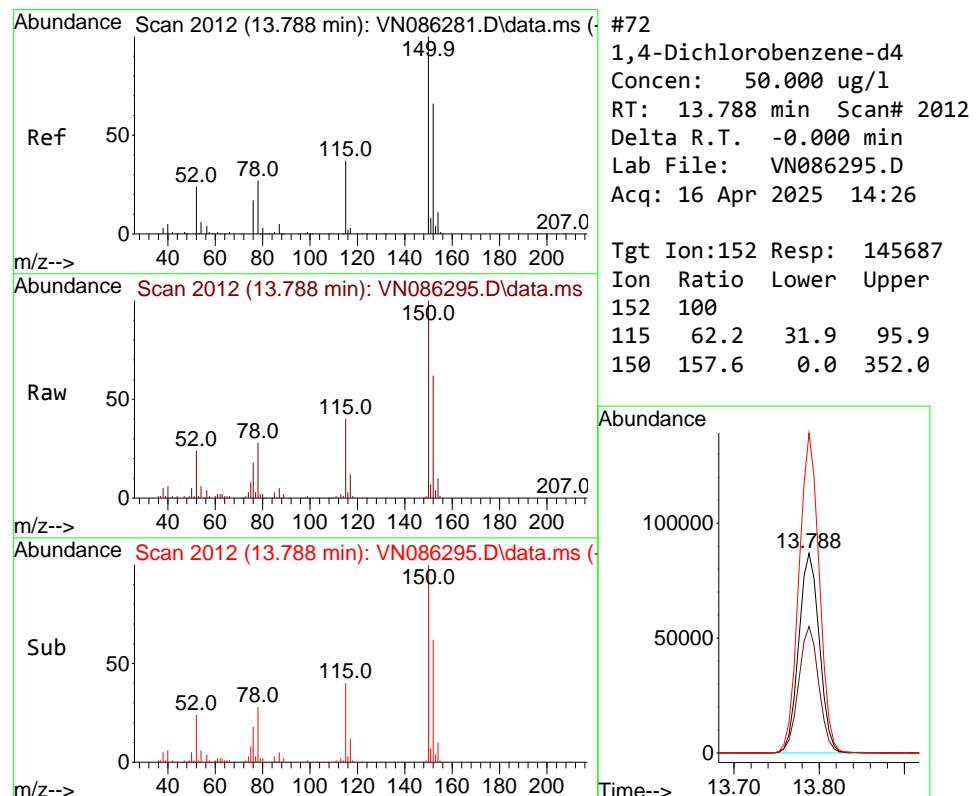
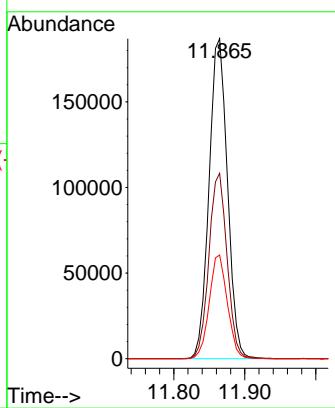




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086295.D
Acq: 16 Apr 2025 14:26

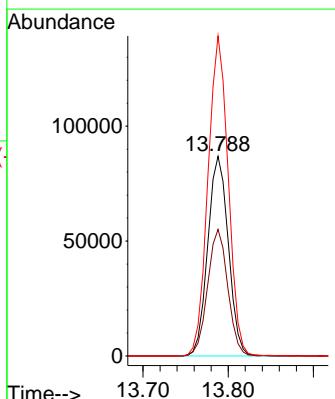
Instrument : MSVOA_N
ClientSampleId : TB01-041525

Tgt Ion:117 Resp: 336378
Ion Ratio Lower Upper
117 100
82 57.9 44.7 67.1
119 32.4 26.4 39.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN086295.D
Acq: 16 Apr 2025 14:26

Tgt Ion:152 Resp: 145687
Ion Ratio Lower Upper
152 100
115 62.2 31.9 95.9
150 157.6 0.0 352.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
 Data File : VN086295.D
 Acq On : 16 Apr 2025 14:26
 Operator : JC\MD
 Sample : Q1812-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB01-041525

Integration Parameters: RTEINT.P
 Integrator: RTE
 Smoothing : ON Filtering: 5
 Sampling : 1 Min Area: 3 % of largest Peak
 Start Thrs: 0.2 Max Peaks: 100
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Title : SW846 8260

Signal : TIC: VN086295.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|--------|----------|------------|----------|-----------|-------|-------------|------------|--------------|------------|
| 1 | 2.812 | 138 | 146 | 153 | rVB2 | 9232 | 23216 | 1.92% | 0.386% |
| 2 | 5.577 | 607 | 616 | 623 | rBV3 | 5021 | 13987 | 1.16% | 0.232% |
| 3 | 8.165 | 1047 | 1056 | 1060 | rBV | 126246 | 290570 | 24.02% | 4.825% |
| 4 | 8.224 | 1060 | 1066 | 1075 | rBV | 255075 | 567524 | 46.92% | 9.424% |
| 5 | 8.577 | 1115 | 1126 | 1134 | rBV | 167459 | 367430 | 30.38% | 6.102% |
| 6 | 9.100 | 1206 | 1215 | 1225 | rVB | 409904 | 833671 | 68.92% | 13.844% |
| 7 | 10.565 | 1455 | 1464 | 1473 | rBV | 658529 | 1209545 | 100.00% | 20.086% |
| 8 | 11.865 | 1676 | 1685 | 1698 | rVB | 581366 | 1039231 | 85.92% | 17.258% |
| 9 | 12.847 | 1845 | 1852 | 1863 | rVB | 456567 | 763656 | 63.14% | 12.681% |
| 10 | 13.788 | 2005 | 2012 | 2020 | rBV | 549666 | 913031 | 75.49% | 15.162% |

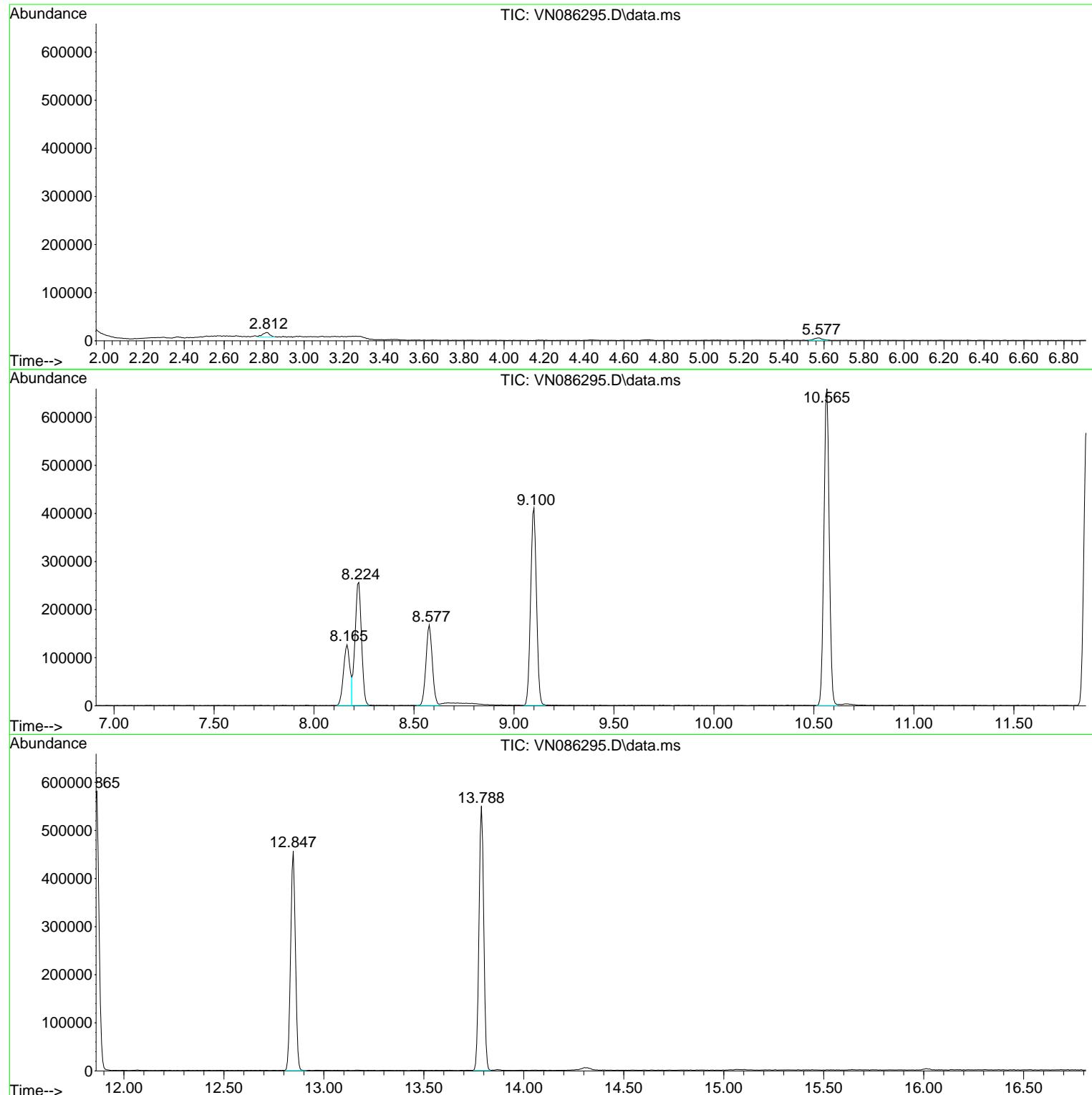
Sum of corrected areas: 6021861

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
 Data File : VN086295.D
 Acq On : 16 Apr 2025 14:26
 Operator : JC\MD
 Sample : Q1812-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB01-041525

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
 TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
Data File : VN086295.D
Acq On : 16 Apr 2025 14:26
Operator : JC\MD
Sample : Q1812-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB01-041525

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
Data File : VN086295.D
Acq On : 16 Apr 2025 14:26
Operator : JC\MD
Sample : Q1812-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB01-041525

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name | RT | EstConc | Units | Response | --Internal Standard--- | | |
|------------------|----|---------|-------|----------|------------------------|----|------|
| | | | | | # | RT | Resp |
| | | | | | | | |



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

Report of Analysis

| | | | | | | |
|--------------------|---|--------|------|-----------------|---------------|----|
| Client: | JACOBS Engineering Group, Inc. | | | Date Collected: | 04/15/25 | |
| Project: | Former Schlumberger STC PTC Site D3868221 | | | Date Received: | 04/15/25 | |
| Client Sample ID: | RINSE-EB-TANK-041525 | | | SDG No.: | Q1812 | |
| Lab Sample ID: | Q1812-02 | | | Matrix: | Water | |
| Analytical Method: | SW8260 | | | % Solid: | 0 | |
| Sample Wt/Vol: | 5 | Units: | mL | Final Vol: | 5000 | uL |
| Soil Aliquot Vol: | uL | | | Test: | VOC-TCLVOA-10 | |
| GC Column: | RXI-624 | ID : | 0.25 | Level : | LOW | |
| Prep Method : | | | | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|-------------------|-----------|-----------|----------------|---------------|
| VN086293.D | 1 | | 04/16/25 13:38 | VN041625 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|----------------|--------------------------------|-------|-----------|-------|------------|-------|
| TARGETS | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 74-87-3 | Chloromethane | 0.32 | U | 0.32 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 0.26 | U | 0.26 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 1.40 | U | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 0.47 | U | 0.47 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 0.33 | U | 0.33 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.25 | U | 0.25 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 67-64-1 | Acetone | 1.50 | U | 1.50 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 0.21 | U | 0.21 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-20-9 | Methyl Acetate | 0.27 | U | 0.27 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 0.28 | U | 0.28 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 0.23 | U | 0.23 | 1.00 | ug/L |
| 110-82-7 | Cyclohexane | 1.50 | U | 1.50 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 0.98 | U | 0.98 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 74-97-5 | Bromochloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 40.8 | | 0.25 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 0.16 | U | 0.16 | 1.00 | ug/L |
| 71-43-2 | Benzene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 0.090 | U | 0.090 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 10.7 | | 0.22 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.68 | U | 0.68 | 5.00 | ug/L |
| 108-88-3 | Toluene | 0.14 | U | 0.14 | 1.00 | ug/L |



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Fax : 908 789 8922

Report of Analysis

| | | | | | | |
|--------------------|---|--------|------|-----------------|---------------|----|
| Client: | JACOBS Engineering Group, Inc. | | | Date Collected: | 04/15/25 | |
| Project: | Former Schlumberger STC PTC Site D3868221 | | | Date Received: | 04/15/25 | |
| Client Sample ID: | RINSE-EB-TANK-041525 | | | SDG No.: | Q1812 | |
| Lab Sample ID: | Q1812-02 | | | Matrix: | Water | |
| Analytical Method: | SW8260 | | | % Solid: | 0 | |
| Sample Wt/Vol: | 5 | Units: | mL | Final Vol: | 5000 | uL |
| Soil Aliquot Vol: | uL | | | Test: | VOC-TCLVOA-10 | |
| GC Column: | RXI-624 | ID : | 0.25 | Level : | LOW | |
| Prep Method : | | | | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|-------------------|-----------|-----------|----------------|---------------|
| VN086293.D | 1 | | 04/16/25 13:38 | VN041625 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---------------------------|-----------------------------|--------|-----------|---------------------|------------|---------|
| 10061-02-6 | t-1,3-Dichloropropene | 0.17 | U | 0.17 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 0.89 | U | 0.89 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 2.00 | | 0.18 | 1.00 | ug/L |
| 106-93-4 | 1,2-Dibromoethane | 0.15 | U | 0.15 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 0.13 | U | 0.13 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 0.24 | U | 0.24 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-42-5 | Styrene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 0.19 | U | 0.19 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.26 | U | 0.26 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.53 | U | 0.53 | 1.00 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| SURROGATES | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 49.4 | | 70 (74) - 130 (125) | 99% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 53.6 | | 70 (75) - 130 (124) | 107% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 50.4 | | 70 (86) - 130 (113) | 101% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 50.3 | | 70 (77) - 130 (121) | 101% | SPK: 50 |
| INTERNAL STANDARDS | | | | | | |
| 363-72-4 | Pentafluorobenzene | 187000 | 8.224 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 359000 | 9.1 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 327000 | 11.865 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 145000 | 13.788 | | | |



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

Report of Analysis

| | | | | | |
|--------------------|---|--------|------|-----------------|---------------|
| Client: | JACOBS Engineering Group, Inc. | | | Date Collected: | 04/15/25 |
| Project: | Former Schlumberger STC PTC Site D3868221 | | | Date Received: | 04/15/25 |
| Client Sample ID: | RINSE-EB-TANK-041525 | | | SDG No.: | Q1812 |
| Lab Sample ID: | Q1812-02 | | | Matrix: | Water |
| Analytical Method: | SW8260 | | | % Solid: | 0 |
| Sample Wt/Vol: | 5 | Units: | mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | | | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 | ID : | 0.25 | Level : | LOW |
| Prep Method : | | | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|-------------------|-----------|-----------|----------------|---------------|
| VN086293.D | 1 | | 04/16/25 13:38 | VN041625 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|------------|-----------|-------|-----------|-----|------------|-------|
|------------|-----------|-------|-----------|-----|------------|-------|

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
 Data File : VN086293.D
 Acq On : 16 Apr 2025 13:38
 Operator : JC\MD
 Sample : Q1812-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
RINSE-EB-TANK-041525

Quant Time: Apr 17 03:06:48 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 04:19:23 2025
 Response via : Initial Calibration

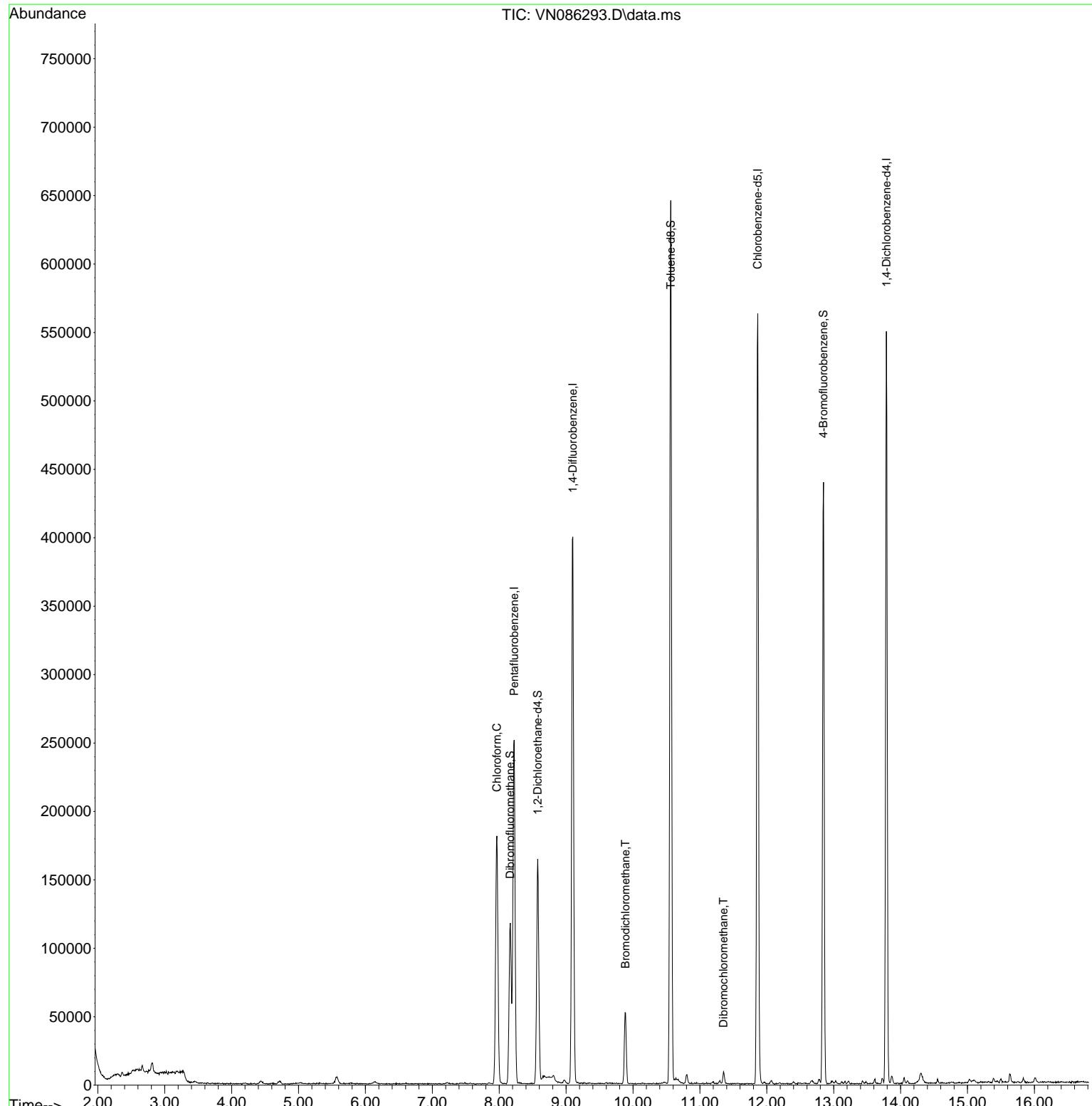
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|------------------------------------|----------------|------|----------|--------|----------|----------|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 8.224 | 168 | 187101 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 9.100 | 114 | 358779 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.865 | 117 | 327128 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.788 | 152 | 145489 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.577 | 65 | 133897 | 49.351 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery | = | 98.700% | |
| 35) Dibromofluoromethane | 8.165 | 113 | 89240 | 53.593 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery | = | 107.180% | |
| 50) Toluene-d8 | 10.565 | 98 | 448849 | 50.436 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery | = | 100.880% | |
| 62) 4-Bromofluorobenzene | 12.847 | 95 | 163259 | 50.296 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery | = | 100.600% | |
| Target Compounds | | | | | | |
| | | | | Qvalue | | |
| 30) Chloroform | 7.965 | 83 | 180293 | 40.846 | ug/l | 99 |
| 47) Bromodichloromethane | 9.888 | 83 | 38322 | 10.676 | ug/l | 95 |
| 60) Dibromochloromethane | 11.353 | 129 | 5154 | 1.962 | ug/l | 98 |

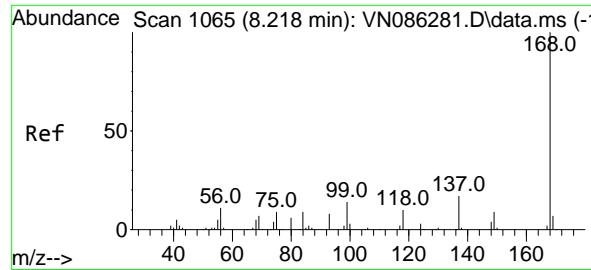
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
Data File : VN086293.D
Acq On : 16 Apr 2025 13:38
Operator : JC\MD
Sample : Q1812-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
RINSE-EB-TANK-041525

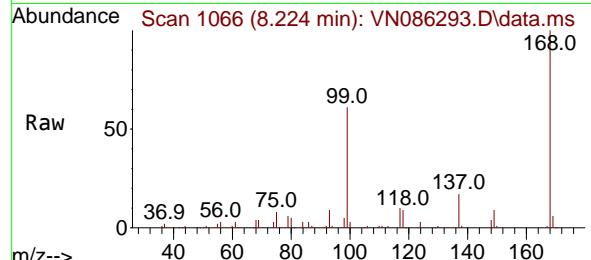
Quant Time: Apr 17 03:06:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 16 04:19:23 2025
Response via : Initial Calibration



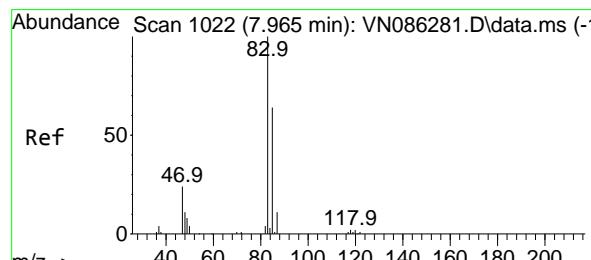
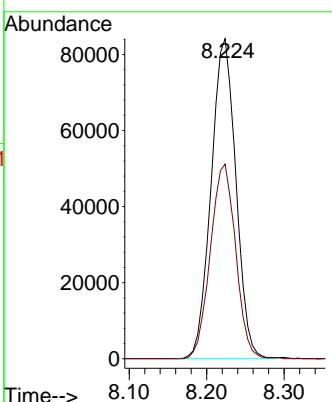
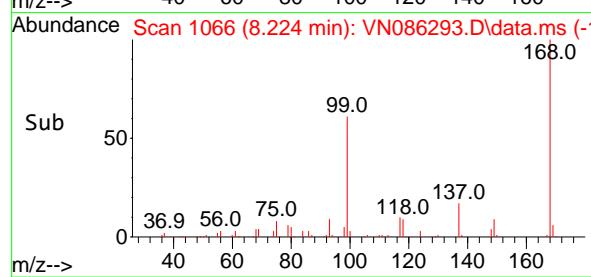


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN086293.D
Acq: 16 Apr 2025 13:38

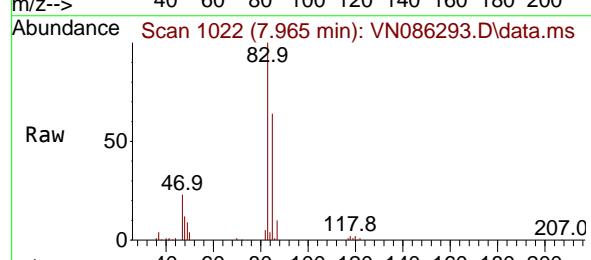
Instrument : MSVOA_N
ClientSampleId : RINSE-EB-TANK-041525



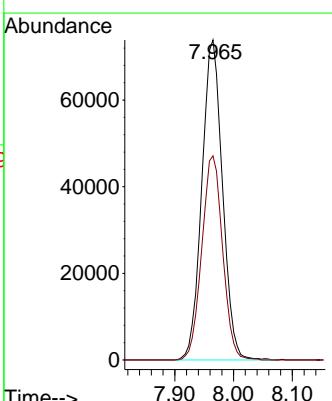
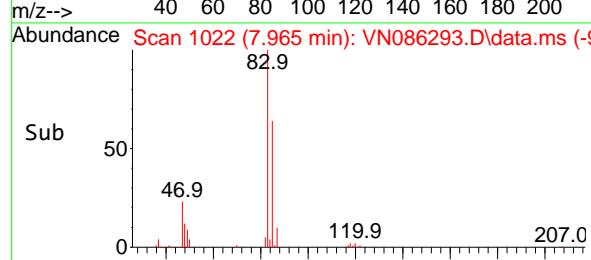
Tgt Ion:168 Resp: 187101
Ion Ratio Lower Upper
168 100
99 60.8 52.5 78.7

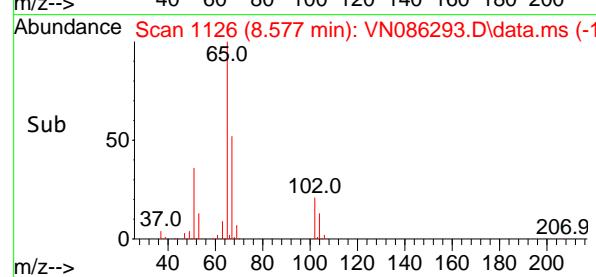
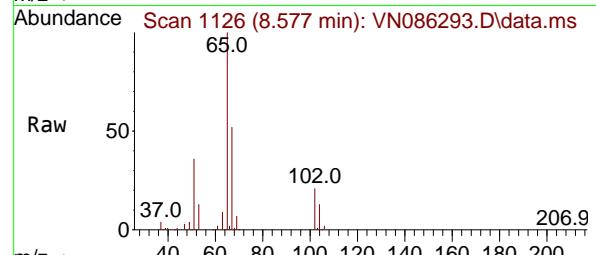
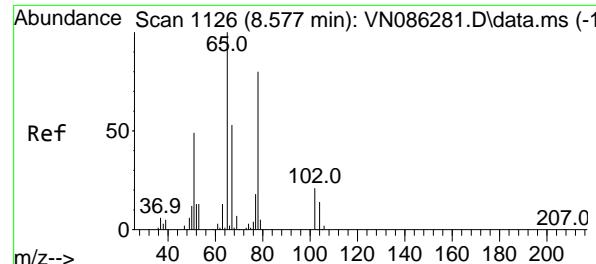


#30
Chloroform
Concen: 40.846 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. -0.000 min
Lab File: VN086293.D
Acq: 16 Apr 2025 13:38



Tgt Ion: 83 Resp: 180293
Ion Ratio Lower Upper
83 100
85 63.8 51.5 77.3





#33

1,2-Dichloroethane-d4

Concen: 49.351 ug/l

RT: 8.577 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086293.D

Acq: 16 Apr 2025 13:38

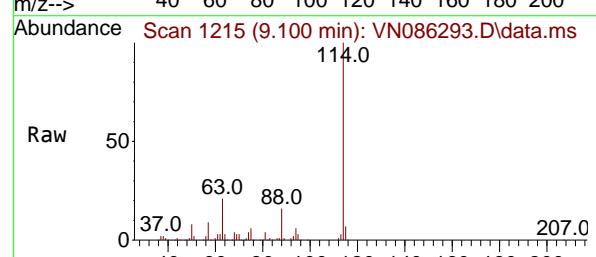
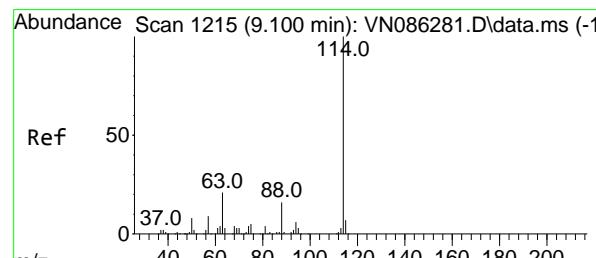
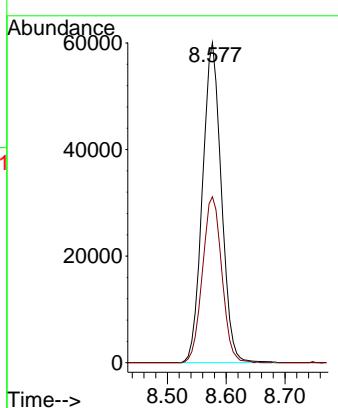
Instrument : MSVOA_N
 ClientSampleId : RINSE-EB-TANK-041525

Tgt Ion: 65 Resp: 133897

Ion Ratio Lower Upper

65 100

67 53.2 0.0 106.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 9.100 min Scan# 1215
 Delta R.T. -0.000 min
 Lab File: VN086293.D
 Acq: 16 Apr 2025 13:38

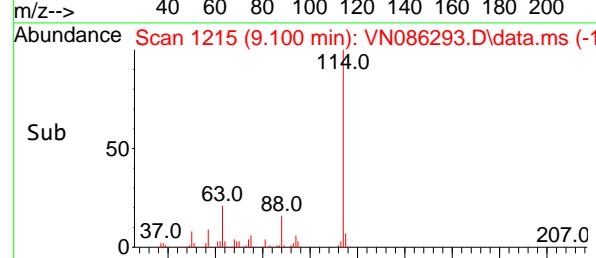
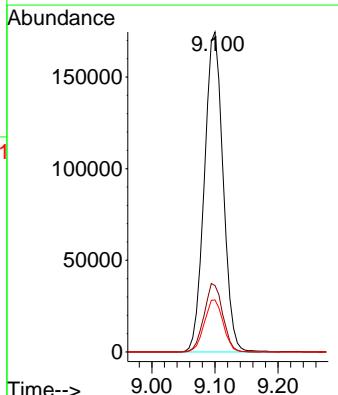
Tgt Ion:114 Resp: 358779

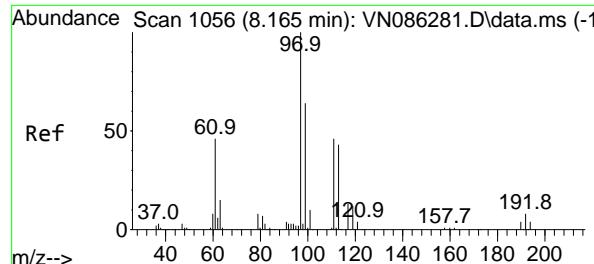
Ion Ratio Lower Upper

114 100

63 20.7 0.0 42.6

88 16.2 0.0 31.8





#35

Dibromofluoromethane

Concen: 53.593 ug/l

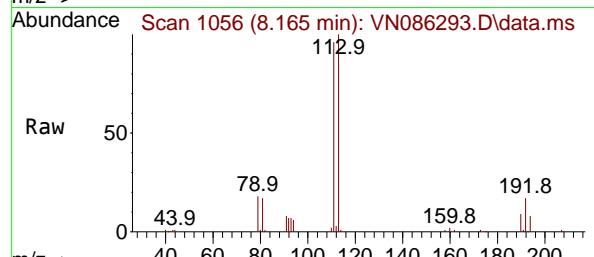
RT: 8.165 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086293.D

Acq: 16 Apr 2025 13:38

Instrument :
MSVOA_N
ClientSampleId :
RINSE-EB-TANK-041525



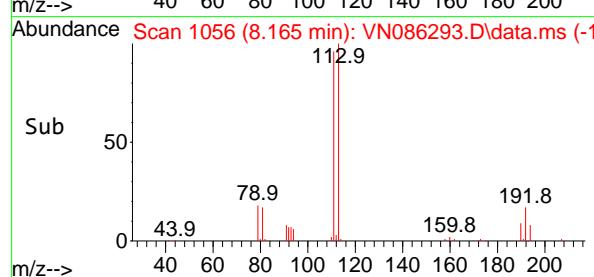
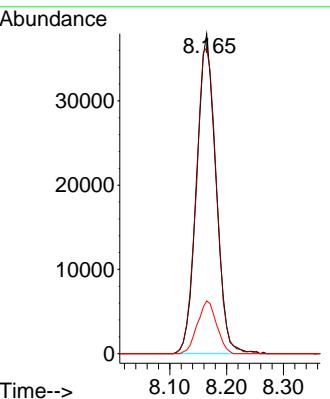
Tgt Ion:113 Resp: 89240

Ion Ratio Lower Upper

113 100

111 100.4 83.4 125.0

192 16.4 13.7 20.5



#47

Bromodichloromethane

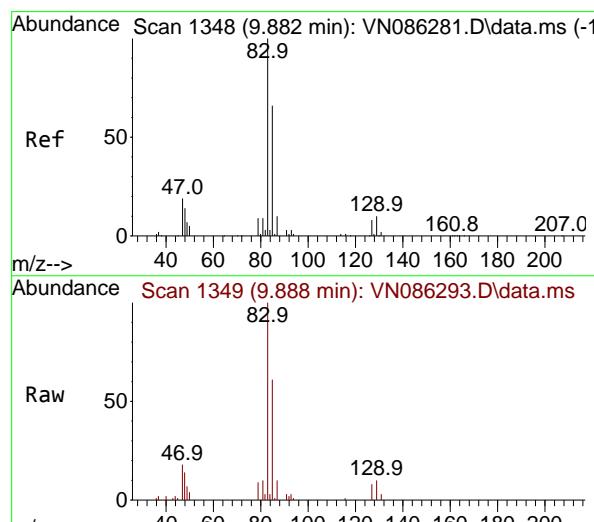
Concen: 10.676 ug/l

RT: 9.888 min Scan# 1349

Delta R.T. 0.006 min

Lab File: VN086293.D

Acq: 16 Apr 2025 13:38



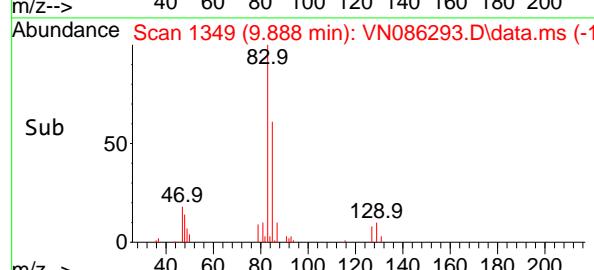
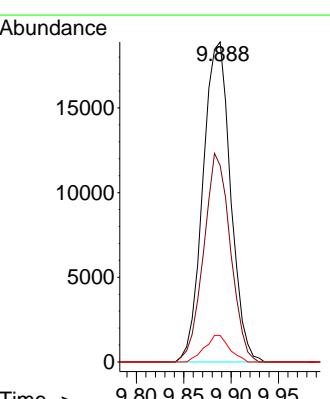
Tgt Ion: 83 Resp: 38322

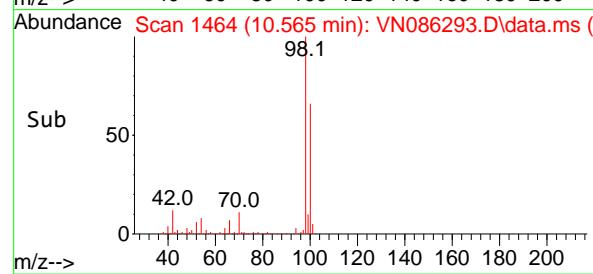
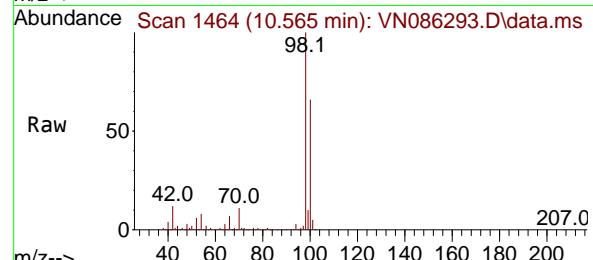
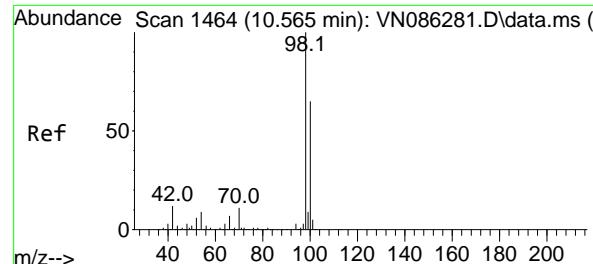
Ion Ratio Lower Upper

83 100

85 61.4 52.6 78.8

127 8.3 6.1 9.1

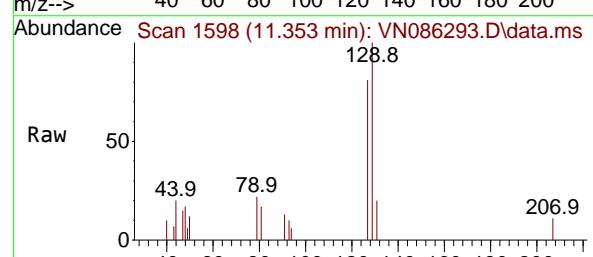
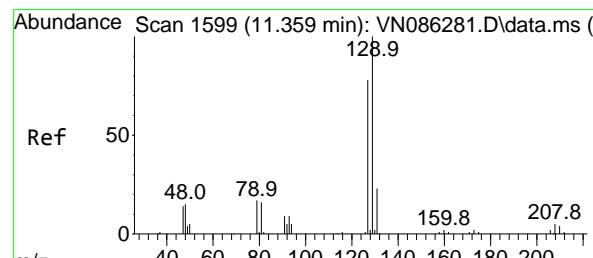
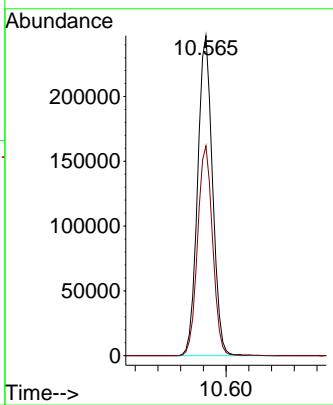




#50
Toluene-d8
Concen: 50.436 ug/l
RT: 10.565 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086293.D
Acq: 16 Apr 2025 13:38

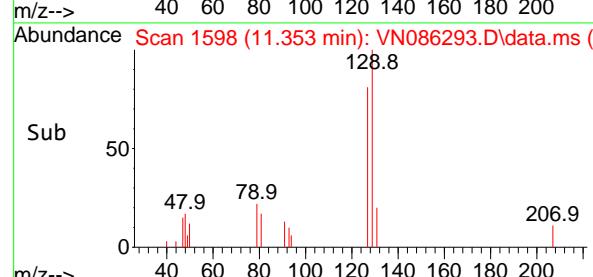
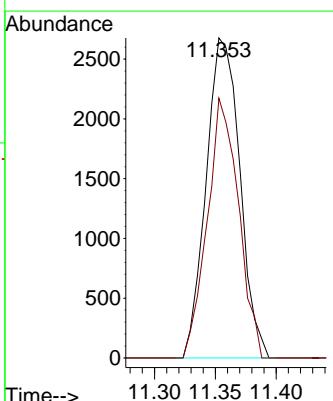
Instrument : MSVOA_N
ClientSampleId : RINSE-EB-TANK-041525

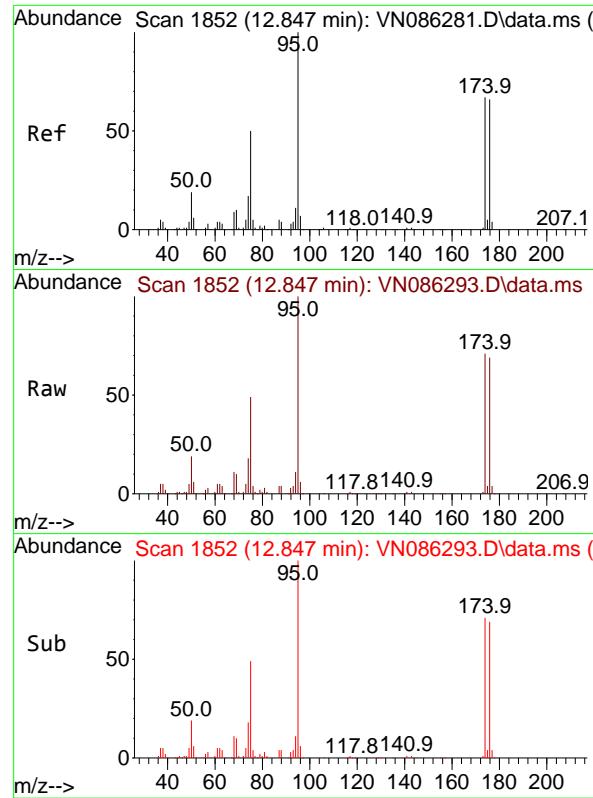
Tgt Ion: 98 Resp: 448849
Ion Ratio Lower Upper
98 100
100 65.9 52.5 78.7



#60
Dibromochloromethane
Concen: 1.962 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. -0.006 min
Lab File: VN086293.D
Acq: 16 Apr 2025 13:38

Tgt Ion:129 Resp: 5154
Ion Ratio Lower Upper
129 100
127 75.3 38.7 116.1

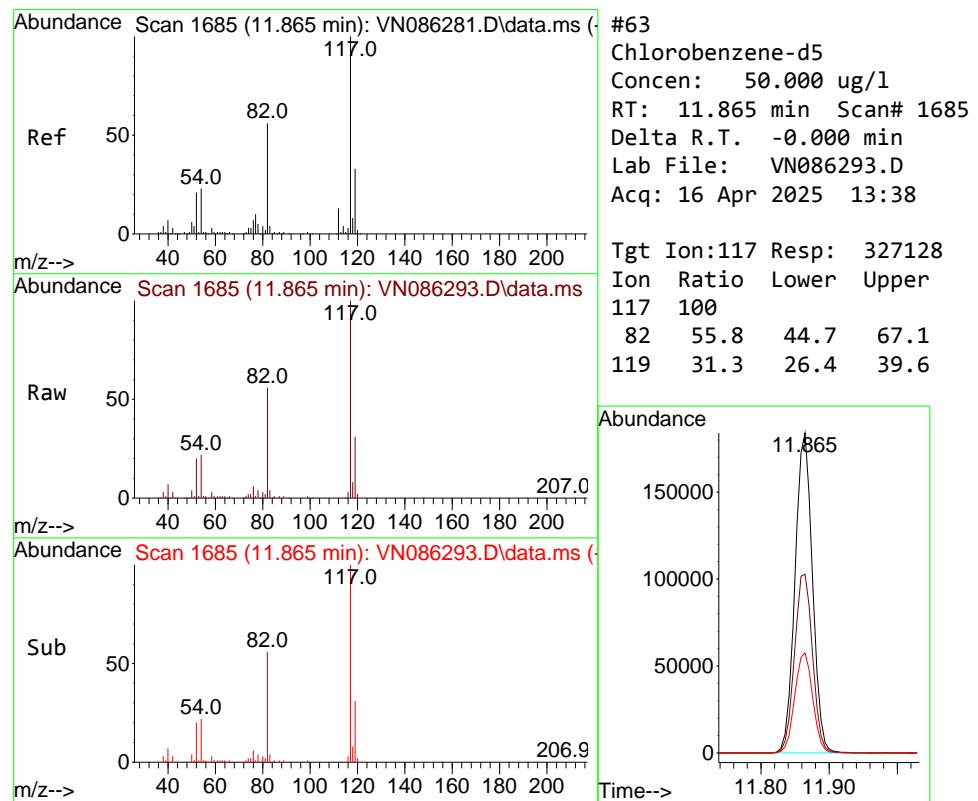
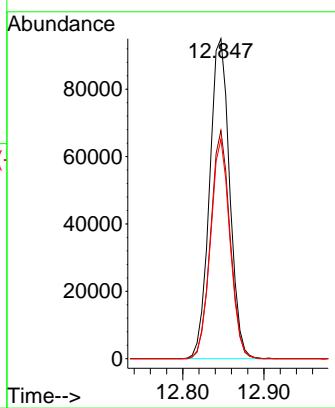




#62
4-Bromofluorobenzene
Concen: 50.296 ug/l
RT: 12.847 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086293.D
Acq: 16 Apr 2025 13:38

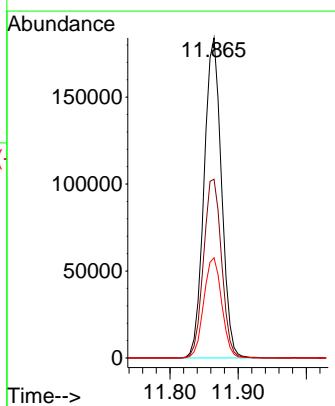
Instrument : MSVOA_N
ClientSampleId : RINSE-EB-TANK-041525

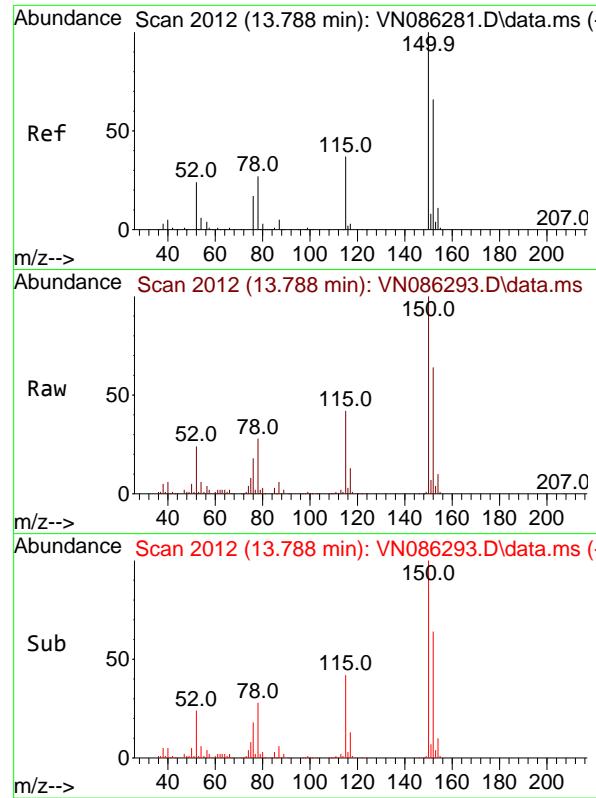
Tgt Ion: 95 Resp: 163259
Ion Ratio Lower Upper
95 100
174 68.9 0.0 133.4
176 66.3 0.0 129.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086293.D
Acq: 16 Apr 2025 13:38

Tgt Ion:117 Resp: 327128
Ion Ratio Lower Upper
117 100
82 55.8 44.7 67.1
119 31.3 26.4 39.6

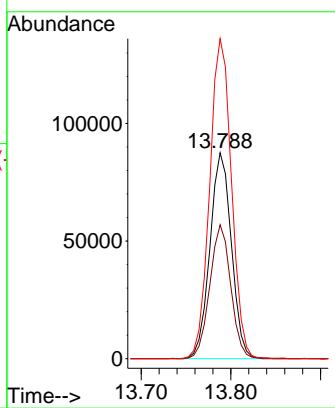




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086293.D
Acq: 16 Apr 2025 13:38

Instrument :
MSVOA_N
ClientSampleId :
RINSE-EB-TANK-041525

Tgt Ion:152 Resp: 145489
Ion Ratio Lower Upper
152 100
115 63.4 31.9 95.9
150 157.7 0.0 352.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
 Data File : VN086293.D
 Acq On : 16 Apr 2025 13:38
 Operator : JC\MD
 Sample : Q1812-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
RINSE-EB-TANK-041525

Integration Parameters: RTEINT.P
 Integrator: RTE
 Smoothing : ON Filtering: 5
 Sampling : 1 Min Area: 3 % of largest Peak
 Start Thrs: 0.2 Max Peaks: 100
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Title : SW846 8260

Signal : TIC: VN086293.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|--------|----------|------------|----------|-----------|-------|-------------|------------|--------------|------------|
| 1 | 2.812 | 141 | 146 | 154 | rVB | 7447 | 17111 | 1.45% | 0.262% |
| 2 | 7.965 | 1012 | 1022 | 1036 | rBV | 181113 | 443935 | 37.55% | 6.792% |
| 3 | 8.165 | 1046 | 1056 | 1060 | rBV | 117592 | 276919 | 23.42% | 4.237% |
| 4 | 8.224 | 1060 | 1066 | 1075 | rBV | 250735 | 565379 | 47.82% | 8.650% |
| 5 | 8.577 | 1116 | 1126 | 1135 | rBV | 164303 | 370581 | 31.35% | 5.670% |
| 6 | 9.100 | 1204 | 1215 | 1226 | rBV | 399533 | 830352 | 70.24% | 12.704% |
| 7 | 9.882 | 1340 | 1348 | 1359 | rBV | 52081 | 105568 | 8.93% | 1.615% |
| 8 | 10.565 | 1455 | 1464 | 1472 | rBV | 645058 | 1182204 | 100.00% | 18.087% |
| 9 | 10.806 | 1496 | 1505 | 1512 | rBV3 | 6719 | 13684 | 1.16% | 0.209% |
| 10 | 11.353 | 1593 | 1598 | 1604 | rVB | 8608 | 14218 | 1.20% | 0.218% |
| 11 | 11.865 | 1677 | 1685 | 1698 | rBV | 562779 | 1023147 | 86.55% | 15.654% |
| 12 | 12.847 | 1845 | 1852 | 1861 | rVB | 439783 | 746000 | 63.10% | 11.413% |
| 13 | 13.788 | 2005 | 2012 | 2021 | rVV | 549695 | 916177 | 77.50% | 14.017% |
| 14 | 14.306 | 2082 | 2100 | 2113 | rBV7 | 7700 | 30919 | 2.62% | 0.473% |

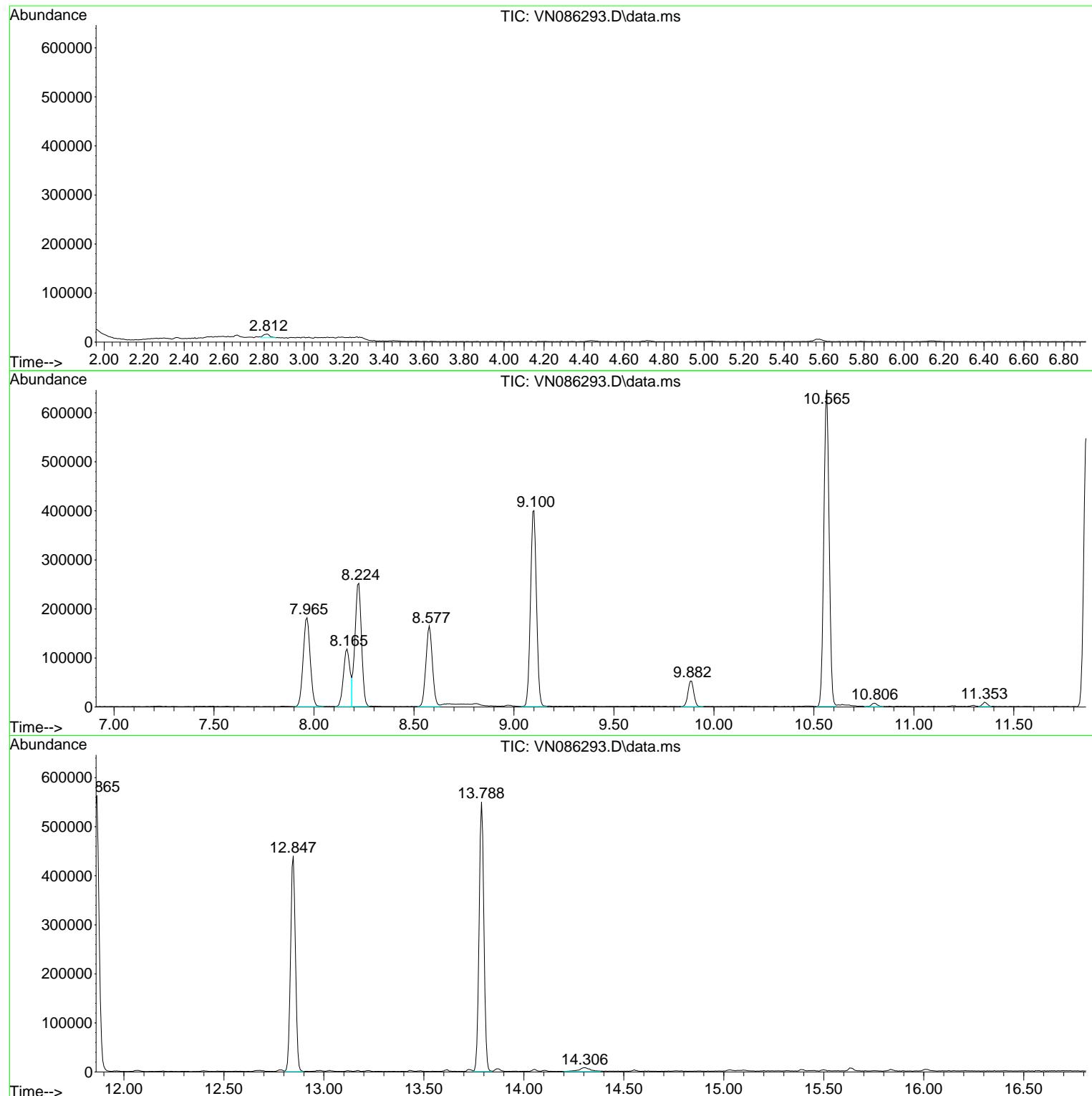
Sum of corrected areas: 6536194

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
 Data File : VN086293.D
 Acq On : 16 Apr 2025 13:38
 Operator : JC\MD
 Sample : Q1812-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
RINSE-EB-TANK-041525

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
 TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
Data File : VN086293.D
Acq On : 16 Apr 2025 13:38
Operator : JC\MD
Sample : Q1812-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
RINSE-EB-TANK-041525

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
Data File : VN086293.D
Acq On : 16 Apr 2025 13:38
Operator : JC\MD
Sample : Q1812-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
RINSE-EB-TANK-041525

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name | RT | EstConc | Units | Response | --Internal Standard--- | | |
|------------------|----|---------|-------|----------|------------------------|----|------|
| | | | | | # | RT | Resp |
| | | | | | | | |



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

Report of Analysis

| | | | | | | |
|--------------------|---|--------|------|-----------------|---------------|----|
| Client: | JACOBS Engineering Group, Inc. | | | Date Collected: | 04/15/25 | |
| Project: | Former Schlumberger STC PTC Site D3868221 | | | Date Received: | 04/15/25 | |
| Client Sample ID: | RINSE-EB-PUMP-041525 | | | SDG No.: | Q1812 | |
| Lab Sample ID: | Q1812-03 | | | Matrix: | Water | |
| Analytical Method: | SW8260 | | | % Solid: | 0 | |
| Sample Wt/Vol: | 5 | Units: | mL | Final Vol: | 5000 | uL |
| Soil Aliquot Vol: | uL | | | Test: | VOC-TCLVOA-10 | |
| GC Column: | RXI-624 | ID : | 0.25 | Level : | LOW | |
| Prep Method : | | | | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|-------------------|-----------|-----------|----------------|---------------|
| VN086294.D | 1 | | 04/16/25 14:02 | VN041625 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|----------------|--------------------------------|-------|-----------|-------|------------|-------|
| TARGETS | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 74-87-3 | Chloromethane | 0.32 | U | 0.32 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 0.26 | U | 0.26 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 1.40 | U | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 0.47 | U | 0.47 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 0.33 | U | 0.33 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.25 | U | 0.25 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 67-64-1 | Acetone | 1.50 | U | 1.50 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 0.21 | U | 0.21 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-20-9 | Methyl Acetate | 0.27 | U | 0.27 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 0.28 | U | 0.28 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 0.23 | U | 0.23 | 1.00 | ug/L |
| 110-82-7 | Cyclohexane | 1.50 | U | 1.50 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 0.98 | U | 0.98 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 74-97-5 | Bromochloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 39.5 | | 0.25 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 0.16 | U | 0.16 | 1.00 | ug/L |
| 71-43-2 | Benzene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 0.090 | U | 0.090 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 10.4 | | 0.22 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.68 | U | 0.68 | 5.00 | ug/L |
| 108-88-3 | Toluene | 0.14 | U | 0.14 | 1.00 | ug/L |



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

Report of Analysis

| | | | | | | |
|--------------------|---|--------|------|-----------------|---------------|----|
| Client: | JACOBS Engineering Group, Inc. | | | Date Collected: | 04/15/25 | |
| Project: | Former Schlumberger STC PTC Site D3868221 | | | Date Received: | 04/15/25 | |
| Client Sample ID: | RINSE-EB-PUMP-041525 | | | SDG No.: | Q1812 | |
| Lab Sample ID: | Q1812-03 | | | Matrix: | Water | |
| Analytical Method: | SW8260 | | | % Solid: | 0 | |
| Sample Wt/Vol: | 5 | Units: | mL | Final Vol: | 5000 | uL |
| Soil Aliquot Vol: | | | uL | Test: | VOC-TCLVOA-10 | |
| GC Column: | RXI-624 | ID : | 0.25 | Level : | LOW | |
| Prep Method : | | | | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|-------------------|-----------|-----------|----------------|---------------|
| VN086294.D | 1 | | 04/16/25 14:02 | VN041625 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---------------------------|-----------------------------|--------|-----------|---------------------|------------|---------|
| 10061-02-6 | t-1,3-Dichloropropene | 0.17 | U | 0.17 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 0.89 | U | 0.89 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 1.80 | | 0.18 | 1.00 | ug/L |
| 106-93-4 | 1,2-Dibromoethane | 0.15 | U | 0.15 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 0.13 | U | 0.13 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 0.24 | U | 0.24 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-42-5 | Styrene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 0.19 | U | 0.19 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.26 | U | 0.26 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.53 | U | 0.53 | 1.00 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| SURROGATES | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 50.3 | | 70 (74) - 130 (125) | 101% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 53.7 | | 70 (75) - 130 (124) | 107% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 51.0 | | 70 (86) - 130 (113) | 102% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 52.2 | | 70 (77) - 130 (121) | 104% | SPK: 50 |
| INTERNAL STANDARDS | | | | | | |
| 363-72-4 | Pentafluorobenzene | 181000 | 8.218 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 355000 | 9.1 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 333000 | 11.865 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 151000 | 13.788 | | | |



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

Report of Analysis

| | | | | | |
|--------------------|---|--------|------|-----------------|---------------|
| Client: | JACOBS Engineering Group, Inc. | | | Date Collected: | 04/15/25 |
| Project: | Former Schlumberger STC PTC Site D3868221 | | | Date Received: | 04/15/25 |
| Client Sample ID: | RINSE-EB-PUMP-041525 | | | SDG No.: | Q1812 |
| Lab Sample ID: | Q1812-03 | | | Matrix: | Water |
| Analytical Method: | SW8260 | | | % Solid: | 0 |
| Sample Wt/Vol: | 5 | Units: | mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | | | | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 | ID : | 0.25 | Level : | LOW |
| Prep Method : | | | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|-------------------|-----------|-----------|----------------|---------------|
| VN086294.D | 1 | | 04/16/25 14:02 | VN041625 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|------------|-----------|-------|-----------|-----|------------|-------|
|------------|-----------|-------|-----------|-----|------------|-------|

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
 Data File : VN086294.D
 Acq On : 16 Apr 2025 14:02
 Operator : JC\MD
 Sample : Q1812-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
RINSE-EB-PUMP-041525

Quant Time: Apr 17 03:07:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 04:19:23 2025
 Response via : Initial Calibration

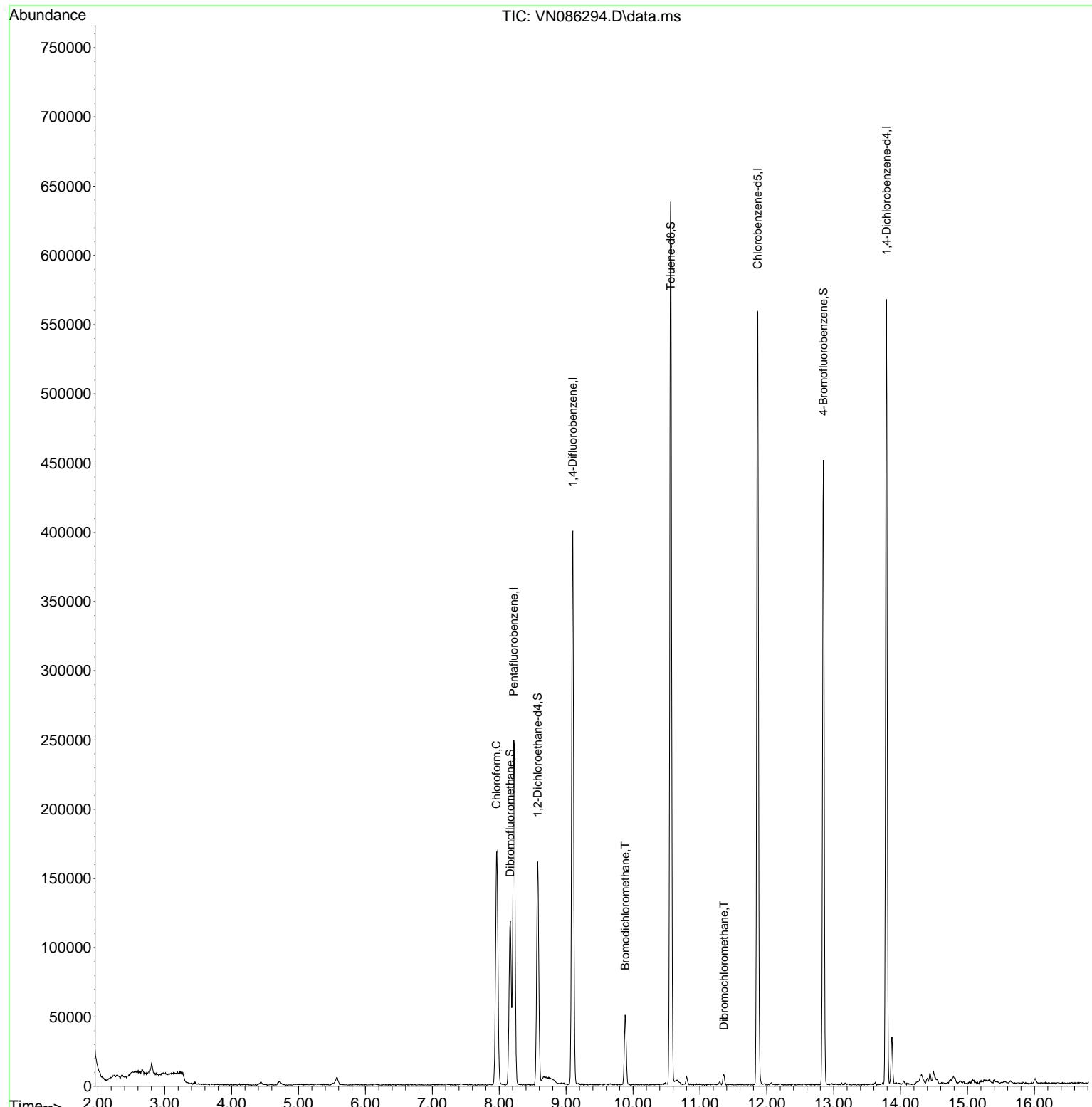
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|------------------------------------|----------------|------|----------|--------|----------|----------|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 8.218 | 168 | 180932 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 9.100 | 114 | 354597 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.865 | 117 | 332731 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.788 | 152 | 151028 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.577 | 65 | 132021 | 50.319 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery | = | 100.640% | |
| 35) Dibromofluoromethane | 8.165 | 113 | 88424 | 53.729 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery | = | 107.460% | |
| 50) Toluene-d8 | 10.565 | 98 | 448820 | 51.028 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery | = | 102.060% | |
| 62) 4-Bromofluorobenzene | 12.847 | 95 | 167466 | 52.201 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery | = | 104.400% | |
| Target Compounds | | | | | | |
| | | | | Qvalue | | |
| 30) Chloroform | 7.959 | 83 | 168726 | 39.529 | ug/l | 97 |
| 47) Bromodichloromethane | 9.882 | 83 | 36894 | 10.400 | ug/l | 93 |
| 60) Dibromochloromethane | 11.359 | 129 | 4725 | 1.820 | ug/l | 97 |

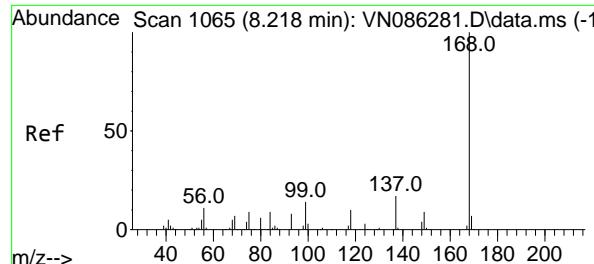
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
Data File : VN086294.D
Acq On : 16 Apr 2025 14:02
Operator : JC\MD
Sample : Q1812-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
RINSE-EB-PUMP-041525

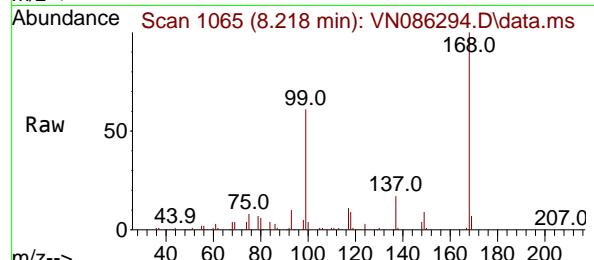
Quant Time: Apr 17 03:07:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 16 04:19:23 2025
Response via : Initial Calibration



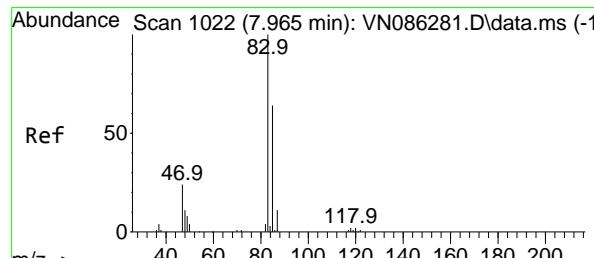
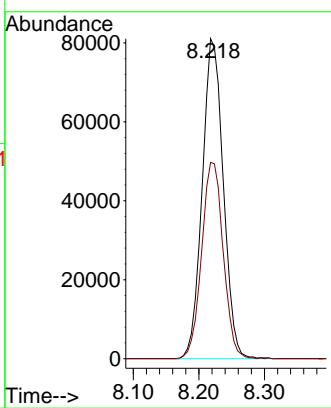
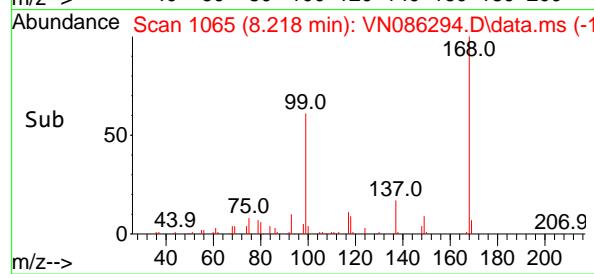


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086294.D
Acq: 16 Apr 2025 14:02

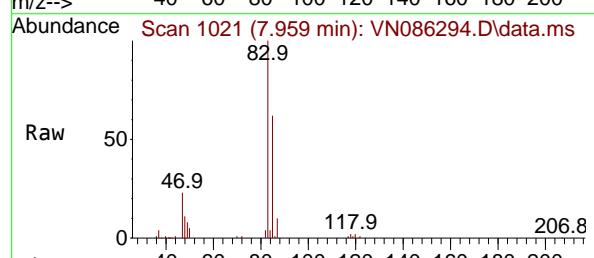
Instrument : MSVOA_N
ClientSampleId : RINSE-EB-PUMP-041525



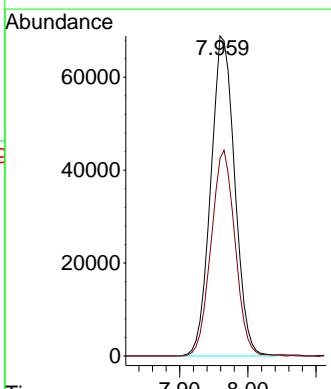
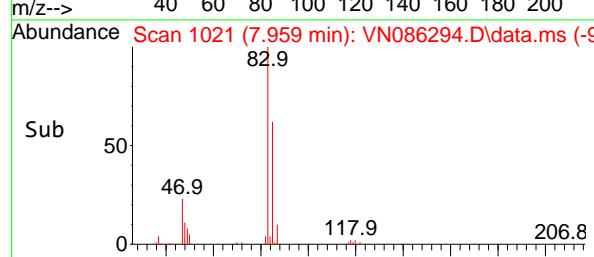
Tgt Ion:168 Resp: 180932
Ion Ratio Lower Upper
168 100
99 61.4 52.5 78.7

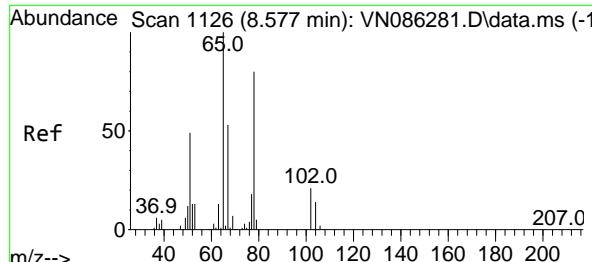


#30
Chloroform
Concen: 39.529 ug/l
RT: 7.959 min Scan# 1021
Delta R.T. -0.006 min
Lab File: VN086294.D
Acq: 16 Apr 2025 14:02



Tgt Ion: 83 Resp: 168726
Ion Ratio Lower Upper
83 100
85 61.7 51.5 77.3





#33

1,2-Dichloroethane-d4

Concen: 50.319 ug/l

RT: 8.577 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086294.D

Acq: 16 Apr 2025 14:02

Instrument : MSVOA_N
 ClientSampleId : RINSE-EB-PUMP-041525

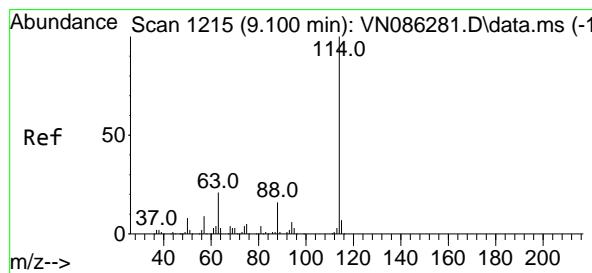
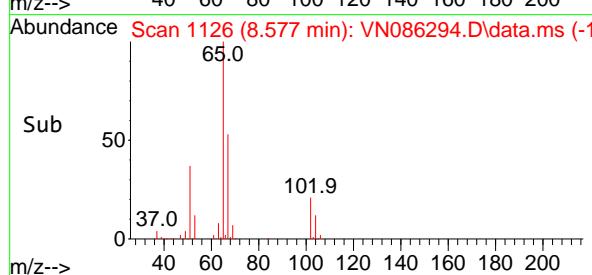
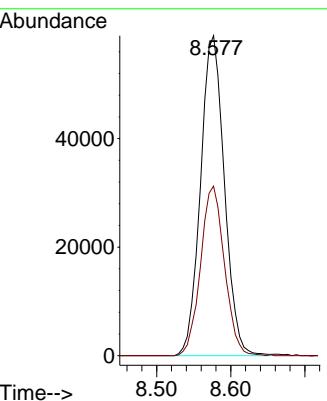


Tgt Ion: 65 Resp: 132021

Ion Ratio Lower Upper

65 100

67 53.0 0.0 106.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN086294.D

Acq: 16 Apr 2025 14:02

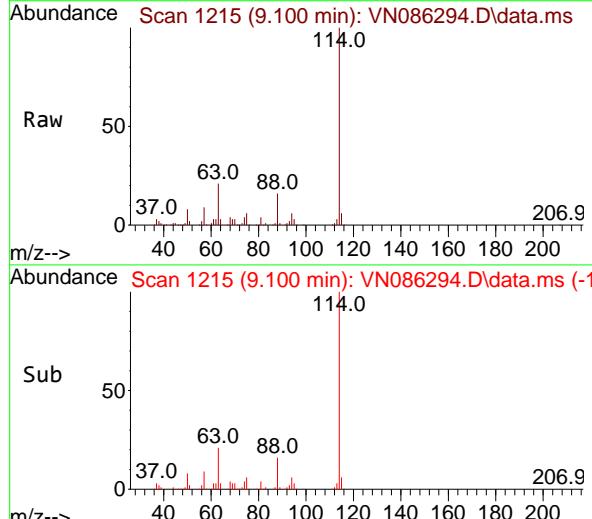
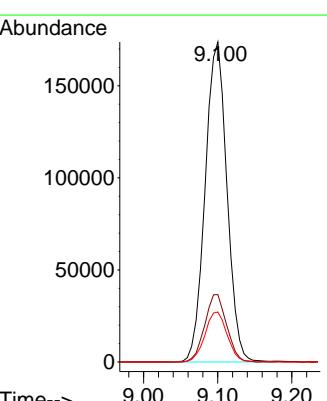
Tgt Ion:114 Resp: 354597

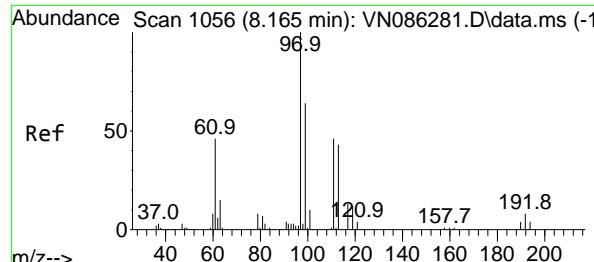
Ion Ratio Lower Upper

114 100

63 21.1 0.0 42.6

88 15.6 0.0 31.8





#35

Dibromofluoromethane

Concen: 53.729 ug/l

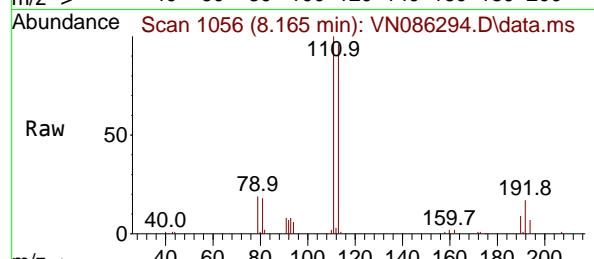
RT: 8.165 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086294.D

Acq: 16 Apr 2025 14:02

Instrument : MSVOA_N
 ClientSampleId : RINSE-EB-PUMP-041525



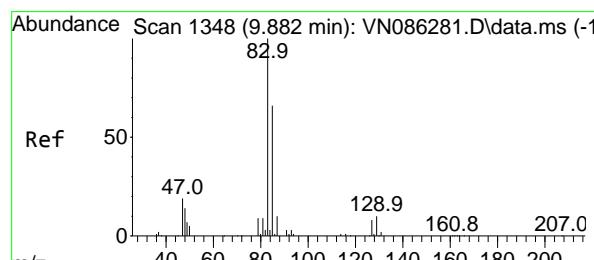
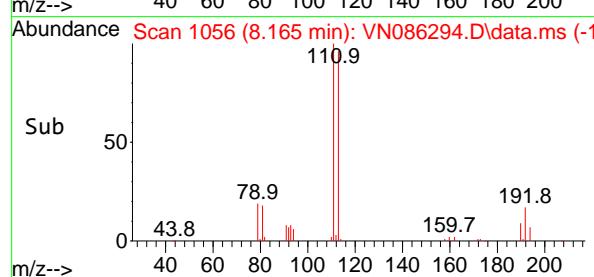
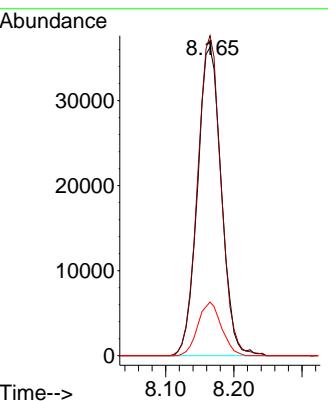
Tgt Ion:113 Resp: 88424

Ion Ratio Lower Upper

113 100

111 101.9 83.4 125.0

192 17.1 13.7 20.5



#47

Bromodichloromethane

Concen: 10.400 ug/l

RT: 9.882 min Scan# 1348

Delta R.T. 0.000 min

Lab File: VN086294.D

Acq: 16 Apr 2025 14:02

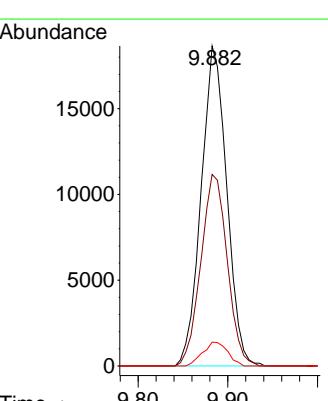
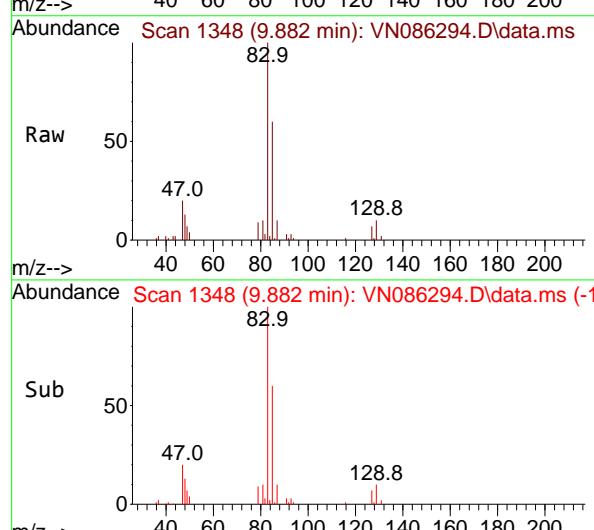
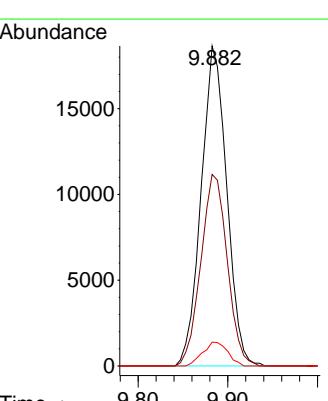
Tgt Ion: 83 Resp: 36894

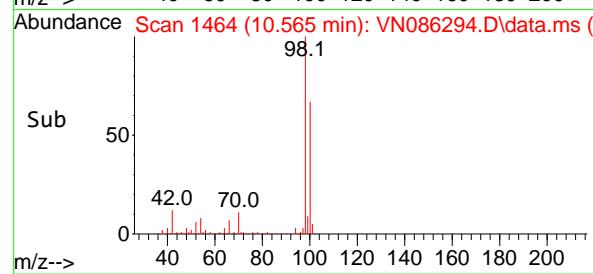
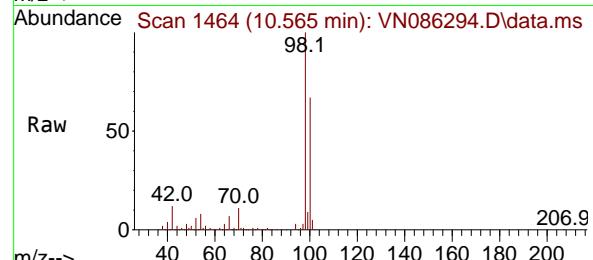
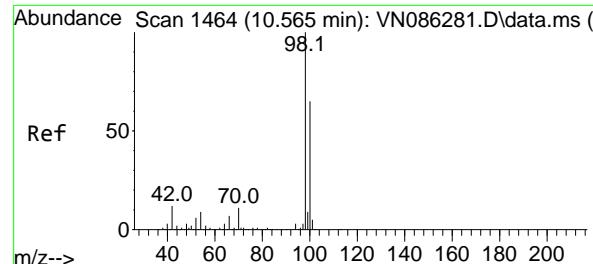
Ion Ratio Lower Upper

83 100

85 59.9 52.6 78.8

127 7.4 6.1 9.1

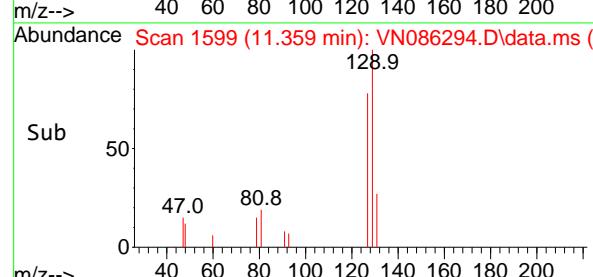
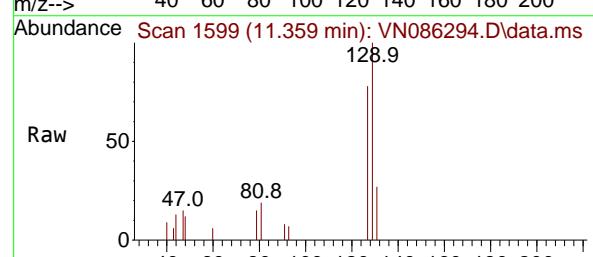
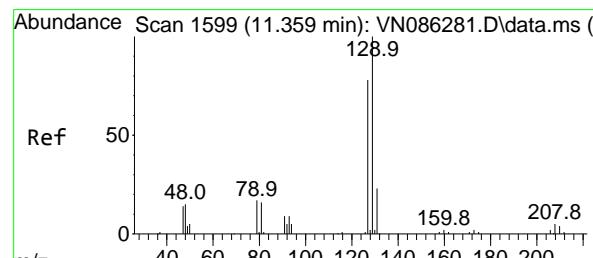
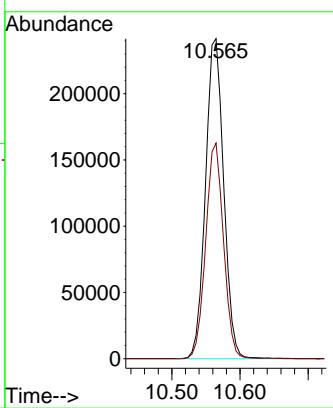




#50
Toluene-d8
Concen: 51.028 ug/l
RT: 10.565 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086294.D
Acq: 16 Apr 2025 14:02

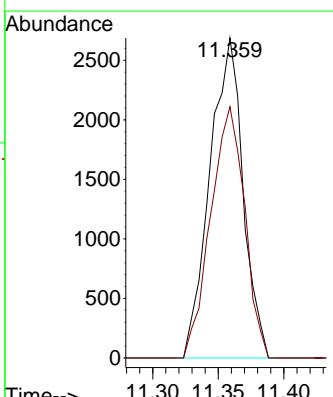
Instrument : MSVOA_N
ClientSampleId : RINSE-EB-PUMP-041525

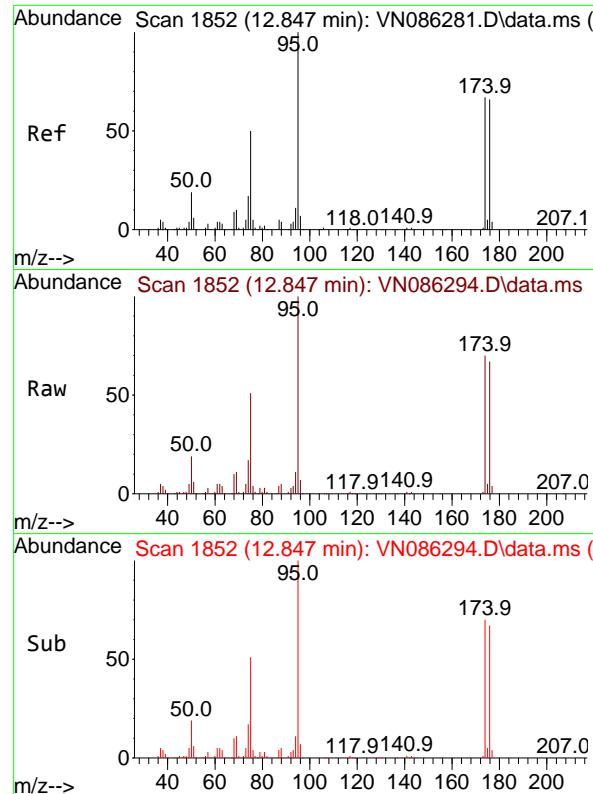
Tgt Ion: 98 Resp: 448820
Ion Ratio Lower Upper
98 100
100 65.9 52.5 78.7



#60
Dibromochloromethane
Concen: 1.820 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.000 min
Lab File: VN086294.D
Acq: 16 Apr 2025 14:02

Tgt Ion:129 Resp: 4725
Ion Ratio Lower Upper
129 100
127 80.3 38.7 116.1

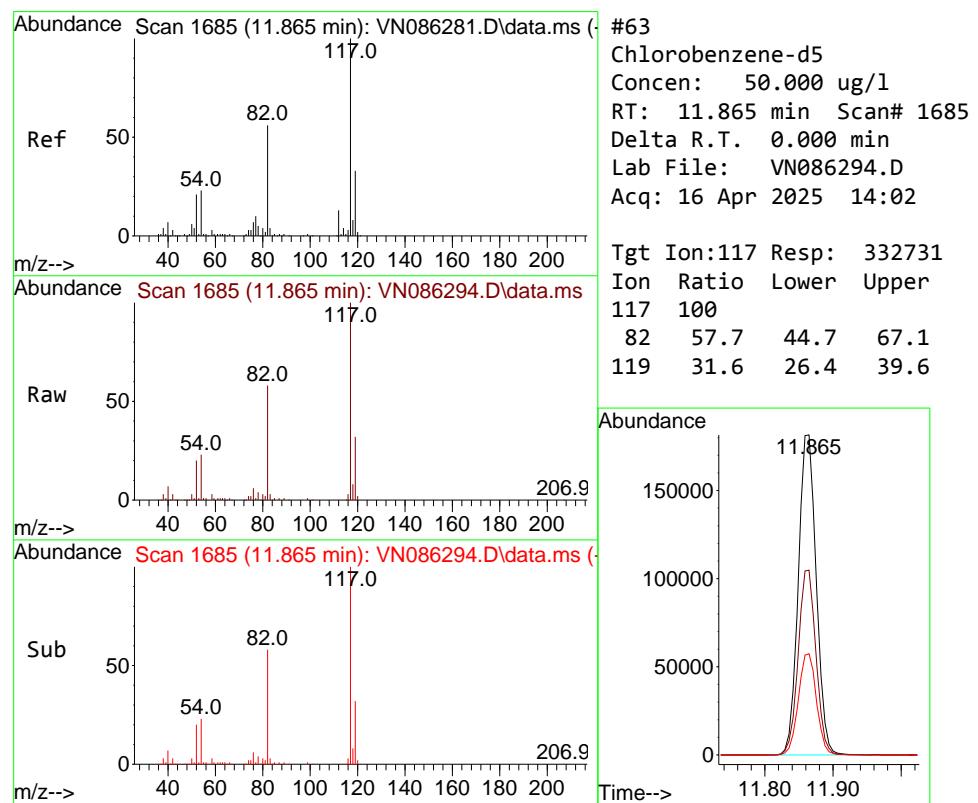
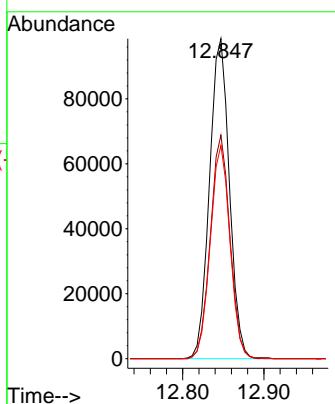




#62
4-Bromofluorobenzene
Concen: 52.201 ug/l
RT: 12.847 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086294.D
Acq: 16 Apr 2025 14:02

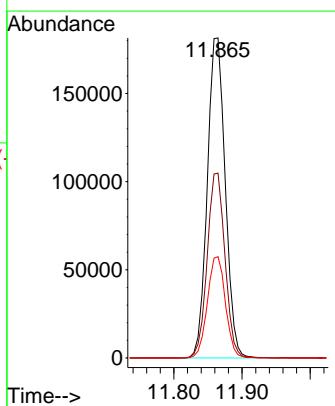
Instrument : MSVOA_N
ClientSampleId : RINSE-EB-PUMP-041525

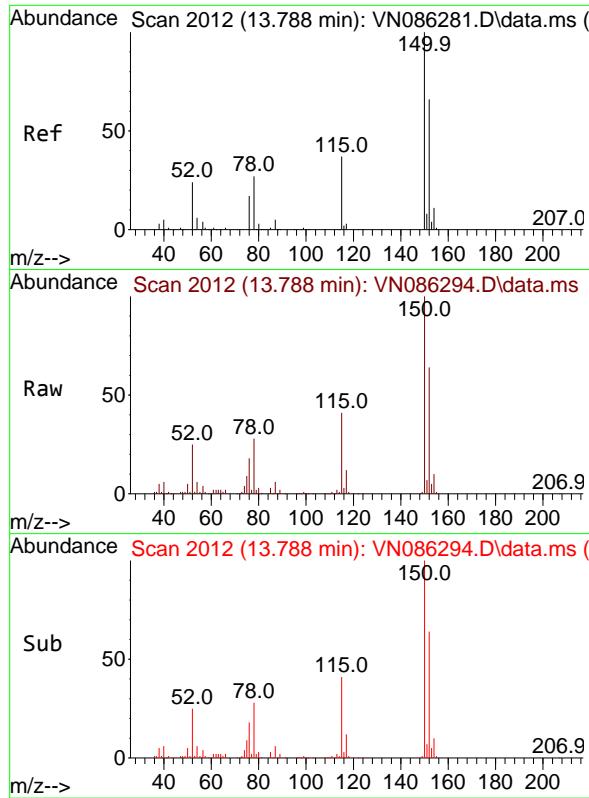
Tgt Ion: 95 Resp: 167466
Ion Ratio Lower Upper
95 100
174 68.8 0.0 133.4
176 65.8 0.0 129.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN086294.D
Acq: 16 Apr 2025 14:02

Tgt Ion:117 Resp: 332731
Ion Ratio Lower Upper
117 100
82 57.7 44.7 67.1
119 31.6 26.4 39.6

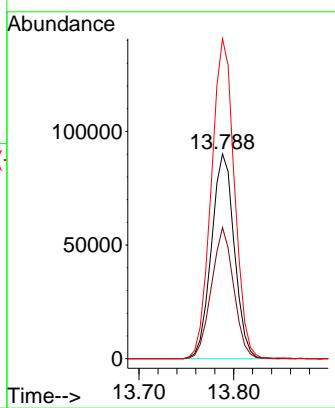




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN086294.D
Acq: 16 Apr 2025 14:02

Instrument : MSVOA_N
ClientSampleId : RINSE-EB-PUMP-041525

Tgt Ion:152 Resp: 151028
Ion Ratio Lower Upper
152 100
115 62.3 31.9 95.9
150 157.8 0.0 352.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
 Data File : VN086294.D
 Acq On : 16 Apr 2025 14:02
 Operator : JC\MD
 Sample : Q1812-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
RINSE-EB-PUMP-041525

Integration Parameters: RTEINT.P

Integrator: RTE
 Smoothing : ON Filtering: 5
 Sampling : 1 Min Area: 3 % of largest Peak
 Start Thrs: 0.2 Max Peaks: 100
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Title : SW846 8260

Signal : TIC: VN086294.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|--------|----------|------------|----------|-----------|-------|-------------|------------|--------------|------------|
| 1 | 2.801 | 139 | 144 | 152 | rVB2 | 7768 | 16501 | 1.40% | 0.251% |
| 2 | 5.571 | 606 | 615 | 622 | rVB2 | 5097 | 14549 | 1.23% | 0.222% |
| 3 | 7.965 | 1011 | 1022 | 1034 | rBV | 168365 | 416173 | 35.26% | 6.342% |
| 4 | 8.165 | 1044 | 1056 | 1060 | rBV | 118335 | 278160 | 23.57% | 4.239% |
| 5 | 8.218 | 1060 | 1065 | 1080 | rBV | 248627 | 555968 | 47.11% | 8.472% |
| 6 | 8.577 | 1117 | 1126 | 1134 | rBV | 161141 | 364119 | 30.85% | 5.548% |
| 7 | 9.100 | 1206 | 1215 | 1224 | rBV | 399727 | 823280 | 69.76% | 12.545% |
| 8 | 9.882 | 1341 | 1348 | 1358 | rVB | 50526 | 100702 | 8.53% | 1.534% |
| 9 | 10.565 | 1455 | 1464 | 1473 | rBV | 637276 | 1180176 | 100.00% | 17.983% |
| 10 | 11.359 | 1593 | 1599 | 1605 | rVB3 | 7813 | 15244 | 1.29% | 0.232% |
| 11 | 11.859 | 1677 | 1684 | 1698 | rBV | 558594 | 1027034 | 87.02% | 15.650% |
| 12 | 12.847 | 1844 | 1852 | 1863 | rBV | 451287 | 760699 | 64.46% | 11.591% |
| 13 | 13.788 | 2005 | 2012 | 2020 | rBV | 566957 | 941766 | 79.80% | 14.350% |
| 14 | 13.870 | 2020 | 2026 | 2032 | rVB | 33766 | 55277 | 4.68% | 0.842% |
| 15 | 14.494 | 2127 | 2132 | 2140 | rVV4 | 6650 | 12974 | 1.10% | 0.198% |

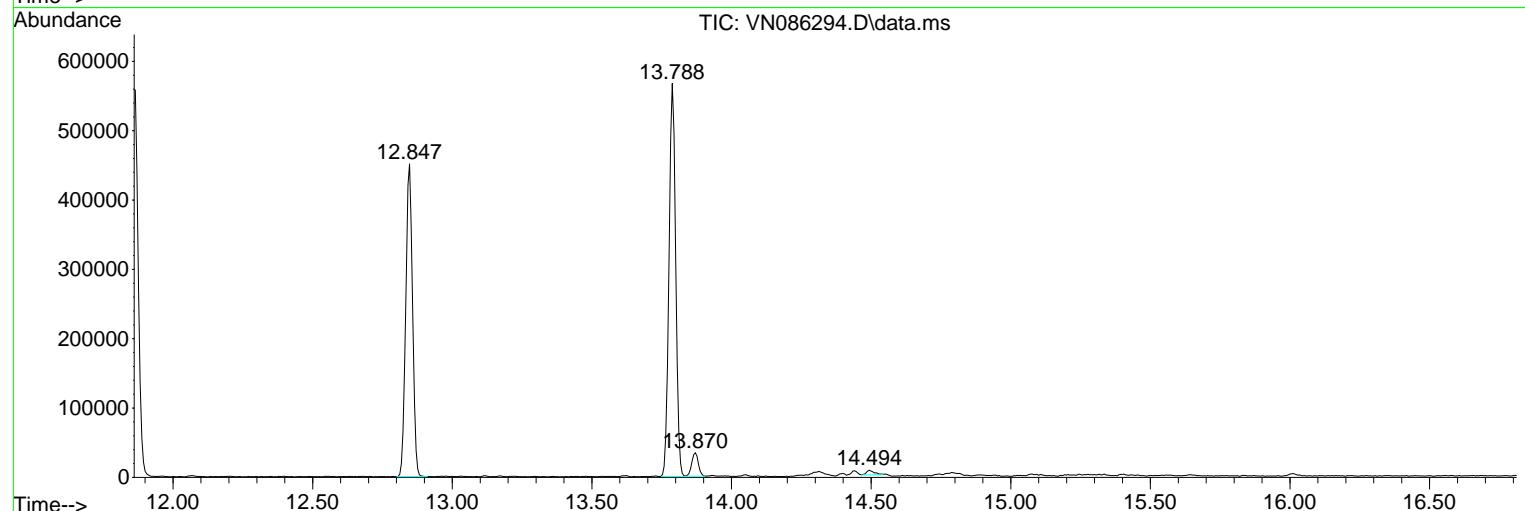
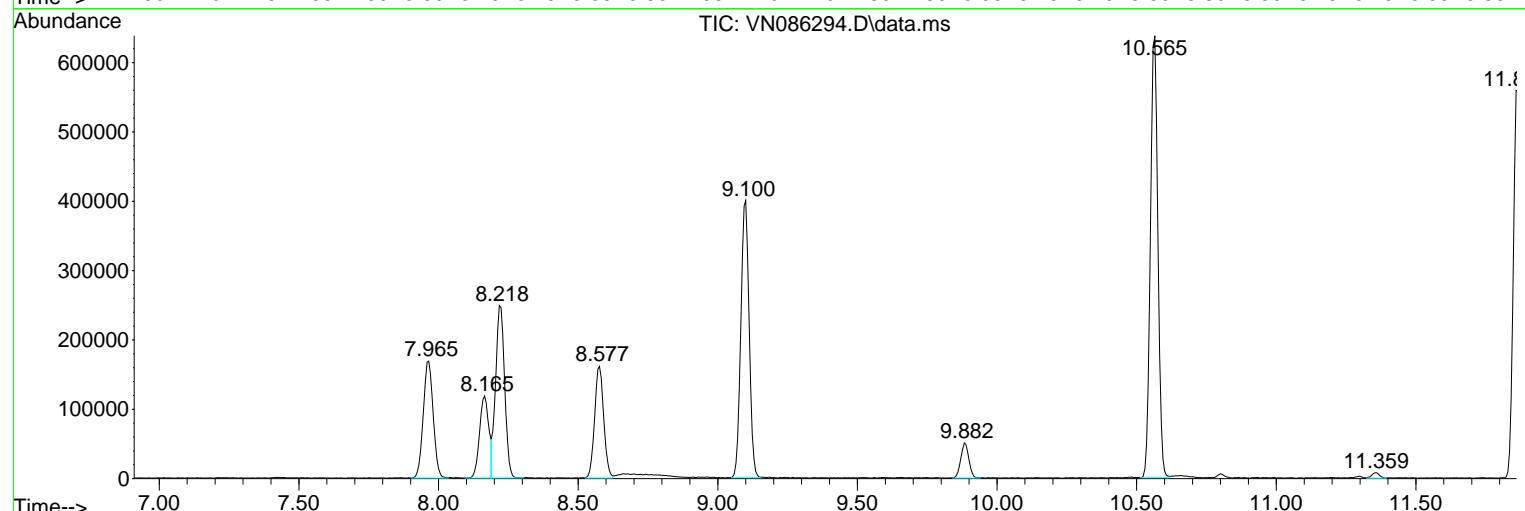
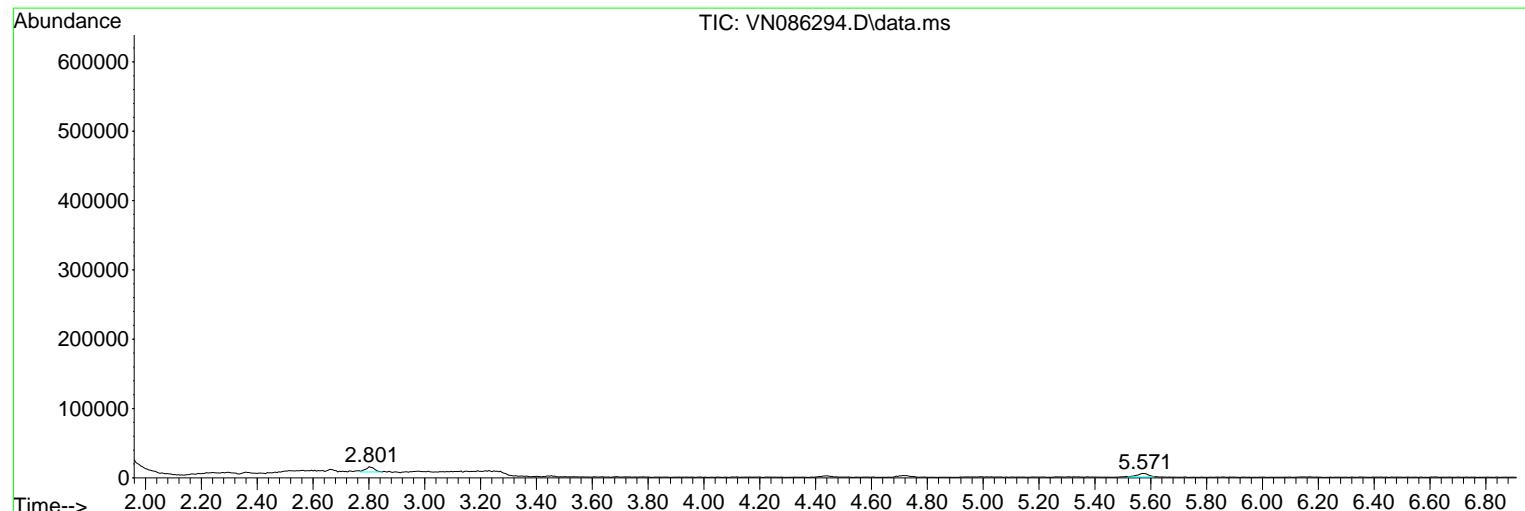
Sum of corrected areas: 6562622

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
 Data File : VN086294.D
 Acq On : 16 Apr 2025 14:02
 Operator : JC\MD
 Sample : Q1812-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
RINSE-EB-PUMP-041525

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
 TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
Data File : VN086294.D
Acq On : 16 Apr 2025 14:02
Operator : JC\MD
Sample : Q1812-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
RINSE-EB-PUMP-041525

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
Data File : VN086294.D
Acq On : 16 Apr 2025 14:02
Operator : JC\MD
Sample : Q1812-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
RINSE-EB-PUMP-041525

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name | RT | EstConc | Units | Response | --Internal Standard--- | | |
|------------------|----|---------|-------|----------|------------------------|----|------|
| | | | | | # | RT | Resp |
| | | | | | | | |



CALIBRATION

SUMMARY



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

| | | | | |
|----------------|----------|----------------------|------------|-------|
| Lab Name: | CHEMTECH | Contract: | JAC005 | |
| Lab Code: | CHEM | Case No.: | Q1812 | |
| Instrument ID: | MSVOA_N | Calibration Date(s): | 04/15/2025 | |
| Heated Purge: | (Y/N) N | Calibration Time(s): | 11:29 | 14:29 |
| GC Column: | RXI-624 | ID: | 0.25 (mm) | |

| LAB FILE ID: | RRF001 = VN086277.D | RRF005 = VN086278.D | RRF010 = VN086279.D | RRF020 = VN086280.D | RRF050 = VN086281.D | RRF100 = VN086282.D | RRF | % RSD |
|--------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|-------|-------|
| COMPOUND | RRF001 | RRF005 | RRF010 | RRF020 | RRF050 | RRF100 | RRF | % RSD |
| Dichlorodifluoromethane | 0.606 | 0.561 | 0.582 | 0.624 | 0.591 | 0.593 | 0.593 | 3.6 |
| Chloromethane | 1.113 | 0.904 | 0.783 | 0.819 | 0.754 | 0.795 | 0.861 | 15.5 |
| Vinyl Chloride | 0.897 | 0.825 | 0.785 | 0.846 | 0.791 | 0.788 | 0.822 | 5.4 |
| Bromomethane | | 0.383 | 0.370 | 0.395 | 0.356 | 0.344 | 0.370 | 5.5 |
| Chloroethane | 0.650 | 0.580 | 0.519 | 0.543 | 0.500 | 0.509 | 0.550 | 10.3 |
| Trichlorofluoromethane | 0.988 | 0.951 | 0.859 | 0.927 | 0.863 | 0.875 | 0.911 | 5.9 |
| 1,1,2-Trichlorotrifluoroethane | 0.577 | 0.581 | 0.522 | 0.567 | 0.526 | 0.532 | 0.551 | 4.9 |
| 1,1-Dichloroethene | 0.660 | 0.622 | 0.553 | 0.588 | 0.551 | 0.557 | 0.588 | 7.6 |
| Acetone | 0.423 | 0.284 | 0.252 | 0.283 | 0.251 | 0.247 | 0.290 | 23.2 |
| Carbon Disulfide | 2.325 | 1.864 | 1.602 | 1.721 | 1.558 | 1.503 | 1.762 | 17.3 |
| Methyl tert-butyl Ether | 2.478 | 2.266 | 2.013 | 2.199 | 2.010 | 2.014 | 2.163 | 8.8 |
| Methyl Acetate | 1.024 | 0.912 | 0.819 | 0.864 | 0.781 | 0.822 | 0.870 | 10 |
| Methylene Chloride | 0.782 | 0.707 | 0.616 | 0.670 | 0.619 | 0.629 | 0.670 | 9.7 |
| trans-1,2-Dichloroethene | 0.703 | 0.656 | 0.557 | 0.620 | 0.575 | 0.580 | 0.615 | 9.1 |
| 1,1-Dichloroethane | 1.315 | 1.274 | 1.122 | 1.206 | 1.136 | 1.152 | 1.201 | 6.6 |
| Cyclohexane | | 1.439 | 1.140 | 1.169 | 1.066 | 1.062 | 1.175 | 13.1 |
| 2-Butanone | 0.504 | 0.473 | 0.420 | 0.466 | 0.425 | 0.420 | 0.451 | 7.7 |
| Carbon Tetrachloride | 0.470 | 0.471 | 0.409 | 0.449 | 0.423 | 0.426 | 0.441 | 5.9 |
| cis-1,2-Dichloroethene | 0.882 | 0.810 | 0.694 | 0.764 | 0.714 | 0.720 | 0.764 | 9.3 |
| Bromochloromethane | 0.545 | 0.608 | 0.436 | 0.465 | 0.495 | 0.506 | 0.509 | 12 |
| Chloroform | 1.318 | 1.233 | 1.122 | 1.196 | 1.105 | 1.104 | 1.180 | 7.3 |
| 1,1,1-Trichloroethane | 1.095 | 1.083 | 0.953 | 1.026 | 0.949 | 0.949 | 1.009 | 6.8 |
| Methylcyclohexane | 0.611 | 0.579 | 0.513 | 0.549 | 0.524 | 0.531 | 0.551 | 6.8 |
| Benzene | 1.648 | 1.545 | 1.389 | 1.508 | 1.409 | 1.411 | 1.485 | 6.8 |
| 1,2-Dichloroethane | 0.526 | 0.496 | 0.448 | 0.482 | 0.444 | 0.446 | 0.474 | 7.1 |
| Trichloroethene | 0.390 | 0.357 | 0.334 | 0.352 | 0.338 | 0.341 | 0.352 | 5.8 |
| 1,2-Dichloropropane | 0.378 | 0.383 | 0.355 | 0.368 | 0.349 | 0.347 | 0.364 | 4.2 |
| Bromodichloromethane | 0.531 | 0.530 | 0.477 | 0.510 | 0.475 | 0.477 | 0.500 | 5.4 |
| 4-Methyl-2-Pentanone | 0.522 | 0.522 | 0.479 | 0.521 | 0.484 | 0.471 | 0.500 | 4.9 |
| Toluene | 1.003 | 0.963 | 0.865 | 0.941 | 0.892 | 0.895 | 0.927 | 5.6 |

* Compounds with required minimum RRF and maximum %RSD values.

All other compounds must meet a minimum RRF of 0.010.

RRF of 1,4-Dioxane = Value should be divide by 1000.



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

| | | | | |
|----------------|----------|----------------------|------------|-------|
| Lab Name: | CHEMTECH | Contract: | JAC005 | |
| Lab Code: | CHEM | Case No.: | Q1812 | |
| Instrument ID: | MSVOA_N | Calibration Date(s): | 04/15/2025 | |
| Heated Purge: | (Y/N) N | Calibration Time(s): | 11:29 | 14:29 |
| GC Column: | RXI-624 | ID: | 0.25 (mm) | |

| LAB FILE ID: | RRF001 = VN086277.D | RRF005 = VN086278.D | RRF010 = VN086279.D | | | | | |
|-----------------------------|---------------------|---------------------|---------------------|--------|--------|--------|-------|-------|
| COMPOUND | RRF001 | RRF005 | RRF010 | RRF020 | RRF050 | RRF100 | RRF | % RSD |
| t-1,3-Dichloropropene | 0.576 | 0.574 | 0.528 | 0.572 | 0.547 | 0.554 | 0.558 | 3.4 |
| cis-1,3-Dichloropropene | 0.679 | 0.636 | 0.580 | 0.621 | 0.577 | 0.587 | 0.613 | 6.5 |
| 1,1,2-Trichloroethane | 0.367 | 0.357 | 0.315 | 0.332 | 0.318 | 0.313 | 0.333 | 6.9 |
| 2-Hexanone | 0.394 | 0.387 | 0.355 | 0.383 | 0.355 | 0.349 | 0.371 | 5.3 |
| Dibromochloromethane | 0.377 | 0.381 | 0.354 | 0.375 | 0.353 | 0.356 | 0.366 | 3.5 |
| 1,2-Dibromoethane | 0.359 | 0.342 | 0.319 | 0.350 | 0.324 | 0.323 | 0.336 | 4.9 |
| Tetrachloroethene | 0.419 | 0.399 | 0.358 | 0.390 | 0.371 | 0.370 | 0.385 | 5.8 |
| Chlorobenzene | 1.235 | 1.175 | 1.058 | 1.117 | 1.050 | 1.059 | 1.116 | 6.8 |
| Ethyl Benzene | 2.210 | 2.112 | 1.873 | 2.028 | 1.918 | 1.941 | 2.014 | 6.4 |
| m/p-Xylenes | 0.809 | 0.795 | 0.705 | 0.757 | 0.727 | 0.734 | 0.754 | 5.4 |
| o-Xylene | 0.791 | 0.792 | 0.709 | 0.753 | 0.713 | 0.718 | 0.746 | 5.2 |
| Styrene | 1.306 | 1.288 | 1.156 | 1.245 | 1.218 | 1.246 | 1.243 | 4.3 |
| Bromoform | 0.306 | 0.294 | 0.258 | 0.279 | 0.261 | 0.264 | 0.277 | 7 |
| Isopropylbenzene | 4.666 | 4.271 | 3.991 | 4.181 | 3.728 | 3.706 | 4.090 | 8.9 |
| 1,1,2,2-Tetrachloroethane | 1.347 | 1.294 | 1.181 | 1.212 | 1.035 | 0.985 | 1.176 | 12.1 |
| 1,3-Dichlorobenzene | 1.866 | 1.822 | 1.618 | 1.698 | 1.610 | 1.608 | 1.704 | 6.7 |
| 1,4-Dichlorobenzene | 1.942 | 1.815 | 1.615 | 1.713 | 1.614 | 1.597 | 1.716 | 8 |
| 1,2-Dichlorobenzene | 1.819 | 1.820 | 1.565 | 1.646 | 1.559 | 1.502 | 1.652 | 8.4 |
| 1,2-Dibromo-3-Chloropropane | 0.234 | 0.274 | 0.229 | 0.251 | 0.222 | 0.213 | 0.237 | 9.2 |
| 1,2,4-Trichlorobenzene | 0.822 | 0.865 | 0.730 | 0.793 | 0.765 | 0.771 | 0.791 | 6 |
| 1,2,3-Trichlorobenzene | 0.819 | 0.810 | 0.697 | 0.749 | 0.708 | 0.709 | 0.749 | 7.2 |
| 1,2-Dichloroethane-d4 | | 0.746 | 0.745 | 0.707 | 0.719 | 0.708 | 0.725 | 2.6 |
| Dibromofluoromethane | | 0.267 | 0.255 | 0.230 | 0.215 | 0.194 | 0.232 | 12.8 |
| Toluene-d8 | | 1.247 | 1.281 | 1.185 | 1.251 | 1.237 | 1.240 | 2.8 |
| 4-Bromofluorobenzene | | 0.459 | 0.456 | 0.421 | 0.459 | 0.467 | 0.452 | 4 |

* Compounds with required minimum RRF and maximum %RSD values.

All other compounds must meet a minimum RRF of 0.010.

RRF of 1,4-Dioxane = Value should be divide by 1000.

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\

Method File : 82N041525W.M

Title : SW846 8260

Last Update : Wed Apr 16 04:19:23 2025

Response Via : Initial Calibration

Calibration Files

1 =VN086277.D 5 =VN086278.D 10 =VN086279.D 20 =VN086280.D 50 =VN086281.D 100 =VN086282.D

| | Compound | 1 | 5 | 10 | 20 | 50 | 100 | Avg | %RSD |
|--------|--------------------------|-------|-------|-----------|-------|-------|-------|-------|-------|
| <hr/> | | | | | | | | | |
| 1) I | Pentafluorobenzene | ----- | ----- | ISTD----- | | | | | |
| 2) T | Dichlorodifluoromethane | 0.606 | 0.561 | 0.582 | 0.624 | 0.591 | 0.593 | 0.593 | 3.56 |
| 3) P | Chloromethane | 1.113 | 0.904 | 0.783 | 0.819 | 0.754 | 0.795 | 0.861 | 15.46 |
| 4) C | Vinyl Chloride | 0.897 | 0.825 | 0.785 | 0.846 | 0.791 | 0.788 | 0.822 | 5.36# |
| 5) T | Bromomethane | 0.383 | 0.370 | 0.395 | 0.356 | 0.344 | 0.370 | 0.370 | 5.53 |
| 6) T | Chloroethane | 0.650 | 0.580 | 0.519 | 0.543 | 0.500 | 0.509 | 0.550 | 10.31 |
| 7) T | Trichlorofluoromethane | 0.988 | 0.951 | 0.859 | 0.927 | 0.863 | 0.875 | 0.911 | 5.87 |
| 8) T | Diethyl Ether | 0.423 | 0.421 | 0.375 | 0.415 | 0.374 | 0.377 | 0.398 | 6.12 |
| 9) T | 1,1,2-Trichloroethane | 0.577 | 0.581 | 0.522 | 0.567 | 0.526 | 0.532 | 0.551 | 4.93 |
| 10) T | Methyl Iodide | 0.598 | 0.564 | 0.636 | 0.599 | 0.631 | 0.606 | 0.606 | 4.84 |
| 11) T | Tert butyl alcohol | 0.145 | 0.135 | 0.142 | 0.124 | 0.115 | 0.132 | 0.132 | 9.44 |
| 12) CM | 1,1-Dichloroethane | 0.660 | 0.622 | 0.553 | 0.588 | 0.551 | 0.557 | 0.588 | 7.59# |
| 13) T | Acrolein | 0.121 | 0.070 | 0.065 | 0.061 | 0.060 | 0.075 | 0.075 | 34.06 |
| 14) T | Allyl chloride | 1.330 | 1.082 | 0.957 | 1.025 | 0.929 | 0.954 | 1.046 | 14.33 |
| 15) T | Acrylonitrile | 0.332 | 0.349 | 0.308 | 0.343 | 0.317 | 0.313 | 0.327 | 5.13 |
| 16) T | Acetone | 0.423 | 0.284 | 0.252 | 0.283 | 0.251 | 0.247 | 0.290 | 23.22 |
| 17) T | Carbon Disulfide | 2.325 | 1.864 | 1.602 | 1.721 | 1.558 | 1.503 | 1.762 | 17.28 |
| 18) T | Methyl Acetate | 1.024 | 0.912 | 0.819 | 0.864 | 0.781 | 0.822 | 0.870 | 10.04 |
| 19) T | Methyl tert-butyl ether | 2.478 | 2.266 | 2.013 | 2.199 | 2.010 | 2.014 | 2.163 | 8.76 |
| 20) T | Methylene Chloride | 0.782 | 0.707 | 0.616 | 0.670 | 0.619 | 0.629 | 0.670 | 9.71 |
| 21) T | trans-1,2-Dichloroethane | 0.703 | 0.656 | 0.557 | 0.620 | 0.575 | 0.580 | 0.615 | 9.11 |
| 22) T | Diisopropyl ether | 2.660 | 2.385 | 2.107 | 2.266 | 2.109 | 2.128 | 2.276 | 9.58 |
| 23) T | Vinyl Acetate | 1.743 | 1.757 | 1.524 | 1.643 | 1.483 | 1.396 | 1.591 | 9.21 |
| 24) P | 1,1-Dichloroethane | 1.315 | 1.274 | 1.122 | 1.206 | 1.136 | 1.152 | 1.201 | 6.57 |
| 25) T | 2-Butanone | 0.504 | 0.473 | 0.420 | 0.466 | 0.425 | 0.420 | 0.451 | 7.73 |
| 26) T | 2,2-Dichloropropane | 1.174 | 1.154 | 1.024 | 1.084 | 0.983 | 1.032 | 1.075 | 7.07 |
| 27) T | cis-1,2-Dichloroethane | 0.882 | 0.810 | 0.694 | 0.764 | 0.714 | 0.720 | 0.764 | 9.32 |
| 28) T | Bromochloromethane | 0.545 | 0.608 | 0.436 | 0.465 | 0.495 | 0.506 | 0.509 | 11.96 |
| 29) T | Tetrahydrofuran | 0.337 | 0.319 | 0.286 | 0.314 | 0.281 | 0.273 | 0.302 | 8.30 |
| 30) C | Chloroform | 1.318 | 1.233 | 1.122 | 1.196 | 1.105 | 1.104 | 1.180 | 7.29# |
| 31) T | Cyclohexane | 1.439 | 1.140 | 1.169 | 1.066 | 1.062 | 1.175 | 1.175 | 13.14 |
| 32) T | 1,1,1-Trichloroethane | 1.095 | 1.083 | 0.953 | 1.026 | 0.949 | 0.949 | 1.009 | 6.79 |
| 33) S | 1,2-Dichloroethane | 0.746 | 0.745 | 0.707 | 0.719 | 0.708 | 0.725 | 0.725 | 2.63 |
| 34) I | 1,4-Difluorobenzene | ----- | ----- | ISTD----- | | | | | |
| 35) S | Dibromofluoromethane | 0.267 | 0.255 | 0.230 | 0.215 | 0.194 | 0.232 | 0.232 | 12.85 |
| 36) T | 1,1-Dichloropropane | 0.509 | 0.488 | 0.426 | 0.466 | 0.443 | 0.448 | 0.463 | 6.68 |
| 37) T | Ethyl Acetate | 0.585 | 0.509 | 0.458 | 0.491 | 0.446 | 0.439 | 0.488 | 11.15 |
| 38) T | Carbon Tetrachloride | 0.470 | 0.471 | 0.409 | 0.449 | 0.423 | 0.426 | 0.441 | 5.93 |
| 39) T | Methylcyclohexane | 0.611 | 0.579 | 0.513 | 0.549 | 0.524 | 0.531 | 0.551 | 6.83 |
| 40) TM | Benzene | 1.648 | 1.545 | 1.389 | 1.508 | 1.409 | 1.411 | 1.485 | 6.81 |
| 41) T | Methacrylonitrile | 0.327 | 0.285 | 0.278 | 0.283 | 0.264 | 0.259 | 0.283 | 8.57 |
| 42) TM | 1,2-Dichloroethane | 0.526 | 0.496 | 0.448 | 0.482 | 0.444 | 0.446 | 0.474 | 7.09 |
| 43) T | Isopropyl Acetate | 2.155 | 1.263 | 0.969 | 0.975 | 0.866 | 0.833 | 1.177 | 42.71 |
| 44) TM | Trichloroethene | 0.390 | 0.357 | 0.334 | 0.352 | 0.338 | 0.341 | 0.352 | 5.83 |
| 45) C | 1,2-Dichloropropane | 0.378 | 0.383 | 0.355 | 0.368 | 0.349 | 0.347 | 0.364 | 4.24# |
| 46) T | Dibromomethane | 0.234 | 0.244 | 0.220 | 0.239 | 0.227 | 0.226 | 0.232 | 3.74 |
| 47) T | Bromodichloromethane | 0.531 | 0.530 | 0.477 | 0.510 | 0.475 | 0.477 | 0.500 | 5.39 |
| 48) T | Methyl methacrylate | 0.517 | 0.436 | 0.404 | 0.433 | 0.395 | 0.386 | 0.429 | 11.14 |
| 49) T | 1,4-Dioxane | 0.009 | 0.008 | 0.007 | 0.008 | 0.007 | 0.006 | 0.007 | 15.51 |
| 50) S | Toluene-d8 | 1.247 | 1.281 | 1.185 | 1.251 | 1.237 | 1.240 | 1.240 | 2.81 |
| 51) T | 4-Methyl-2-Pentanone | 0.522 | 0.522 | 0.479 | 0.521 | 0.484 | 0.471 | 0.500 | 4.90 |
| 52) CM | Toluene | 1.003 | 0.963 | 0.865 | 0.941 | 0.892 | 0.895 | 0.927 | 5.60# |
| 53) T | t-1,3-Dichloroethane | 0.576 | 0.574 | 0.528 | 0.572 | 0.547 | 0.554 | 0.558 | 3.38 |
| 54) T | cis-1,3-Dichloroethane | 0.679 | 0.636 | 0.580 | 0.621 | 0.577 | 0.587 | 0.613 | 6.52 |
| 55) T | 1,1,2-Trichloroethane | 0.367 | 0.357 | 0.315 | 0.332 | 0.318 | 0.313 | 0.333 | 6.91 |
| 56) T | Ethyl methacrylate | 0.668 | 0.644 | 0.578 | 0.623 | 0.579 | 0.585 | 0.613 | 6.23 |

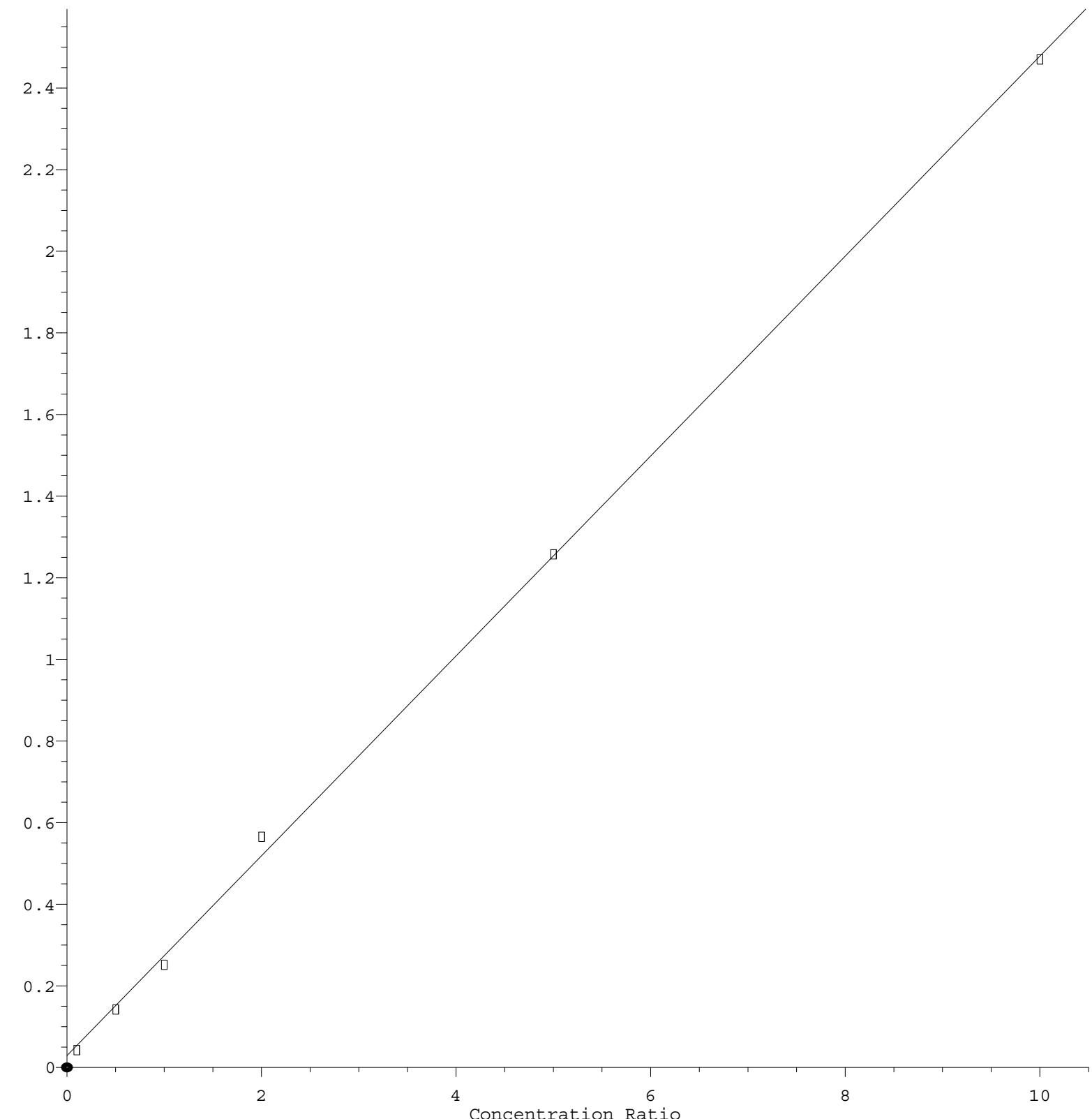
Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
 Method File : 82N041525W.M

| | | | | | | | | | |
|--------|-----------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| 57) T | 1,3-Dichloropr... | 0.629 | 0.617 | 0.567 | 0.602 | 0.564 | 0.571 | 0.592 | 4.75 |
| 58) T | 2-Chloroethyl ... | 0.294 | 0.354 | 0.242 | 0.275 | 0.287 | 0.294 | 0.291 | 12.51 |
| 59) T | 2-Hexanone | 0.394 | 0.387 | 0.355 | 0.383 | 0.355 | 0.349 | 0.371 | 5.28 |
| 60) T | Dibromochlorom... | 0.377 | 0.381 | 0.354 | 0.375 | 0.353 | 0.356 | 0.366 | 3.48 |
| 61) T | 1,2-Dibromoethane | 0.359 | 0.342 | 0.319 | 0.350 | 0.324 | 0.323 | 0.336 | 4.94 |
| 62) S | 4-Bromofluorob... | 0.459 | 0.456 | 0.421 | 0.459 | 0.467 | 0.452 | 4.02 | |
| 63) I | Chlorobenzene-d5 | -----ISTD----- | | | | | | | |
| 64) T | Tetrachloroethene | 0.419 | 0.399 | 0.358 | 0.390 | 0.371 | 0.370 | 0.385 | 5.83 |
| 65) PM | Chlorobenzene | 1.235 | 1.175 | 1.058 | 1.117 | 1.050 | 1.059 | 1.116 | 6.78 |
| 66) T | 1,1,1,2-Tetra... | 0.400 | 0.396 | 0.349 | 0.368 | 0.347 | 0.348 | 0.368 | 6.70 |
| 67) C | Ethyl Benzene | 2.210 | 2.112 | 1.873 | 2.028 | 1.918 | 1.941 | 2.014 | 6.39# |
| 68) T | m/p-Xylenes | 0.809 | 0.795 | 0.705 | 0.757 | 0.727 | 0.734 | 0.754 | 5.38 |
| 69) T | o-Xylene | 0.791 | 0.792 | 0.709 | 0.753 | 0.713 | 0.718 | 0.746 | 5.16 |
| 70) T | Styrene | 1.306 | 1.288 | 1.156 | 1.245 | 1.218 | 1.246 | 1.243 | 4.28 |
| 71) P | Bromoform | 0.306 | 0.294 | 0.258 | 0.279 | 0.261 | 0.264 | 0.277 | 7.03 |
| 72) I | 1,4-Dichlorobenzen... | -----ISTD----- | | | | | | | |
| 73) T | Isopropylbenzene | 4.666 | 4.271 | 3.991 | 4.181 | 3.728 | 3.706 | 4.090 | 8.89 |
| 74) T | N-amyl acetate | 2.690 | 2.110 | 1.879 | 2.000 | 1.778 | 1.760 | 2.036 | 17.03 |
| 75) P | 1,1,2,2-Tetra... | 1.347 | 1.294 | 1.181 | 1.212 | 1.035 | 0.985 | 1.176 | 12.07 |
| 76) T | 1,2,3-Trichlor... | 1.518 | 1.144 | 1.153 | 1.182 | 1.042 | 1.040 | 1.180 | 14.93 |
| 77) T | Bromobenzene | 0.968 | 0.935 | 0.905 | 0.946 | 0.850 | 0.833 | 0.906 | 5.99 |
| 78) T | n-propylbenzene | 5.366 | 5.072 | 4.629 | 4.862 | 4.488 | 4.501 | 4.820 | 7.26 |
| 79) T | 2-Chlorotoluene | 3.378 | 3.247 | 2.908 | 3.058 | 2.759 | 2.745 | 3.016 | 8.61 |
| 80) T | 1,3,5-Trimethyl... | 3.800 | 3.518 | 3.178 | 3.418 | 3.083 | 3.088 | 3.348 | 8.50 |
| 81) T | trans-1,4-Dich... | 0.526 | 0.493 | 0.494 | 0.461 | 0.482 | 0.491 | | 4.81 |
| 82) T | 4-Chlorotoluene | 3.304 | 3.152 | 2.851 | 3.047 | 2.810 | 2.812 | 2.996 | 6.86 |
| 83) T | tert-Butylbenzene | 3.382 | 3.057 | 2.795 | 2.886 | 2.608 | 2.675 | 2.901 | 9.80 |
| 84) T | 1,2,4-Trimethyl... | 3.782 | 3.644 | 3.262 | 3.431 | 3.171 | 3.156 | 3.408 | 7.62 |
| 85) T | sec-Butylbenzene | 4.451 | 4.309 | 3.897 | 3.991 | 3.763 | 3.729 | 4.023 | 7.34 |
| 86) T | p-Isopropyltol... | 3.603 | 3.487 | 3.174 | 3.290 | 3.158 | 3.185 | 3.316 | 5.63 |
| 87) T | 1,3-Dichlorobe... | 1.866 | 1.822 | 1.618 | 1.698 | 1.610 | 1.608 | 1.704 | 6.72 |
| 88) T | 1,4-Dichlorobe... | 1.942 | 1.815 | 1.615 | 1.713 | 1.614 | 1.597 | 1.716 | 8.05 |
| 89) T | n-Butylbenzene | 3.209 | 3.013 | 2.746 | 2.921 | 2.838 | 2.910 | 2.939 | 5.43 |
| 90) T | Hexachloroethane | 0.617 | 0.586 | 0.530 | 0.557 | 0.518 | 0.538 | 0.558 | 6.74 |
| 91) T | 1,2-Dichlorobe... | 1.819 | 1.820 | 1.565 | 1.646 | 1.559 | 1.502 | 1.652 | 8.35 |
| 92) T | 1,2-Dibromo-3... | 0.234 | 0.274 | 0.229 | 0.251 | 0.222 | 0.213 | 0.237 | 9.21 |
| 93) T | 1,2,4-Trichlor... | 0.822 | 0.865 | 0.730 | 0.793 | 0.765 | 0.771 | 0.791 | 5.99 |
| 94) T | Hexachlorobuta... | 0.308 | 0.339 | 0.286 | 0.301 | 0.280 | 0.278 | 0.299 | 7.61 |
| 95) T | Naphthalene | 3.012 | 2.955 | 2.601 | 2.904 | 2.675 | 2.674 | 2.804 | 6.20 |
| 96) T | 1,2,3-Trichlor... | 0.819 | 0.810 | 0.697 | 0.749 | 0.708 | 0.709 | 0.749 | 7.25 |

(#) = Out of Range

Acetone

Response Ratio



Response = 2.450e-001 * Amt + 2.861e-002

Coef of Det (r^2) = 0.999327 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N041525W.M

Calibration Table Last Updated: Wed Apr 16 04:19:23 2025

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041525\
 Data File : VN086277.D
 Acq On : 15 Apr 2025 11:29
 Operator : JC\MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Quant Time: Apr 16 03:54:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 03:42:50 2025
 Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :John Carlane 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|------------------------------------|----------------|------|----------|--------|--------|----------|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 8.224 | 168 | 218868 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 9.100 | 114 | 404752 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.865 | 117 | 341637 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.788 | 152 | 145129 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 0.000 | 65 | 0d | 0.000 | ug/l | |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery | = | 0.000% | # |
| 35) Dibromofluoromethane | 0.000 | 113 | 0d | 0.000 | ug/l | |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery | = | 0.000% | # |
| 50) Toluene-d8 | 0.000 | 98 | 0d | 0.000 | ug/l | |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery | = | 0.000% | # |
| 62) 4-Bromofluorobenzene | 0.000 | 95 | 0d | 0.000 | ug/l | |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery | = | 0.000% | # |
| Target Compounds | | | | | | |
| | | | | Qvalue | | |
| 2) Dichlorodifluoromethane | 2.124 | 85 | 2651 | 1.022 | ug/l | 95 |
| 3) Chloromethane | 2.360 | 50 | 4871 | 1.292 | ug/l | 93 |
| 4) Vinyl Chloride | 2.518 | 62 | 3928 | 1.092 | ug/l | 94 |
| 6) Chloroethane | 3.124 | 64 | 2846 | 1.182 | ug/l | # 86 |
| 7) Trichlorofluoromethane | 3.495 | 101 | 4327 | 1.086 | ug/l | # 79 |
| 8) Diethyl Ether | 3.965 | 74 | 1853 | 1.065 | ug/l | 91 |
| 9) 1,1,2-Trichlorotrifluo... | 4.365 | 101 | 2525 | 1.047 | ug/l | # 84 |
| 12) 1,1-Dichloroethene | 4.342 | 96 | 2890 | 1.122 | ug/l | 97 |
| 14) Allyl chloride | 5.018 | 41 | 5821 | 1.272 | ug/l | 94 |
| 15) Acrylonitrile | 5.730 | 53 | 7256 | 5.069 | ug/l | 100 |
| 16) Acetone | 4.430 | 43 | 9264m | 2.774 | ug/l | |
| 17) Carbon Disulfide | 4.706 | 76 | 10177 | 1.319 | ug/l | 97 |
| 18) Methyl Acetate | 5.024 | 43 | 4481 | 1.176 | ug/l | 92 |
| 19) Methyl tert-butyl Ether | 5.789 | 73 | 10847 | 1.145 | ug/l | # 91 |
| 20) Methylene Chloride | 5.271 | 84 | 3423 | 1.167 | ug/l | # 94 |
| 21) trans-1,2-Dichloroethene | 5.783 | 96 | 3079 | 1.143 | ug/l | # 84 |
| 22) Diisopropyl ether | 6.665 | 45 | 11644 | 1.169 | ug/l | 98 |
| 23) Vinyl Acetate | 6.606 | 43 | 38143 | 5.479 | ug/l | 96 |
| 24) 1,1-Dichloroethane | 6.565 | 63 | 5756 | 1.095 | ug/l | # 85 |
| 25) 2-Butanone | 7.489 | 43 | 11026 | 5.581 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 7.494 | 77 | 5139 | 1.092 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 7.489 | 96 | 3859 | 1.154 | ug/l | 90 |
| 28) Bromochloromethane | 7.800 | 49 | 2387 | 1.071 | ug/l | # 92 |
| 29) Tetrahydrofuran | 7.841 | 42 | 7367 | 5.577 | ug/l | 93 |
| 30) Chloroform | 7.959 | 83 | 5771 | 1.118 | ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 8.165 | 97 | 4792 | 1.085 | ug/l | # 51 |
| 36) 1,1-Dichloropropene | 8.371 | 75 | 4123 | 1.099 | ug/l | 94 |
| 37) Ethyl Acetate | 7.559 | 43 | 4732 | 1.198 | ug/l | # 91 |
| 38) Carbon Tetrachloride | 8.359 | 117 | 3808 | 1.066 | ug/l | 100 |
| 39) Methylcyclohexane | 9.594 | 83 | 4950 | 1.110 | ug/l | 96 |
| 40) Benzene | 8.606 | 78 | 13340 | 1.110 | ug/l | 97 |
| 41) Methacrylonitrile | 7.765 | 41 | 2651 | 1.158 | ug/l | # 94 |
| 42) 1,2-Dichloroethane | 8.665 | 62 | 4258 | 1.111 | ug/l | 96 |
| 43) Isopropyl Acetate | 8.683 | 43 | 17444 | 0.619 | ug/l | # 75 |
| 44) Trichloroethene | 9.353 | 130 | 3157 | 1.108 | ug/l | 87 |
| 45) 1,2-Dichloropropane | 9.612 | 63 | 3063 | 1.041 | ug/l | # 86 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041525\
 Data File : VN086277.D
 Acq On : 15 Apr 2025 11:29
 Operator : JC\MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Quant Time: Apr 16 03:54:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 03:42:50 2025
 Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :John Carbone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) Dibromomethane | 9.706 | 93 | 1891 | 1.009 | ug/1 | 91 |
| 47) Bromodichloromethane | 9.888 | 83 | 4302 | 1.062 | ug/1 # | 97 |
| 48) Methyl methacrylate | 9.683 | 41 | 4185 | 1.206 | ug/1 | 94 |
| 49) 1,4-Dioxane | 9.688 | 88 | 1477 | 25.032 | ug/1 # | 76 |
| 51) 4-Methyl-2-Pentanone | 10.441 | 43 | 21143 | 5.227 | ug/1 | 98 |
| 52) Toluene | 10.624 | 92 | 8120 | 1.083 | ug/1 | 99 |
| 53) t-1,3-Dichloropropene | 10.841 | 75 | 4663 | 1.032 | ug/1 | 93 |
| 54) cis-1,3-Dichloropropene | 10.306 | 75 | 5497 | 1.107 | ug/1 | 89 |
| 55) 1,1,2-Trichloroethane | 11.018 | 97 | 2967 | 1.099 | ug/1 | 93 |
| 56) Ethyl methacrylate | 10.871 | 69 | 5409 | 1.090 | ug/1 | 90 |
| 57) 1,3-Dichloropropane | 11.159 | 76 | 5091 | 1.063 | ug/1 | 98 |
| 58) 2-Chloroethyl Vinyl ether | 10.159 | 63 | 11885 | 5.048 | ug/1 | 97 |
| 59) 2-Hexanone | 11.194 | 43 | 15945 | 5.315 | ug/1 | 98 |
| 60) Dibromochloromethane | 11.353 | 129 | 3054 | 1.031 | ug/1 | 96 |
| 61) 1,2-Dibromoethane | 11.465 | 107 | 2908 | 1.068 | ug/1 | 90 |
| 64) Tetrachloroethene | 11.106 | 164 | 2864 | 1.090 | ug/1 | 95 |
| 65) Chlorobenzene | 11.882 | 112 | 8440 | 1.107 | ug/1 | 93 |
| 66) 1,1,1,2-Tetrachloroethane | 11.959 | 131 | 2734 | 1.087 | ug/1 # | 62 |
| 67) Ethyl Benzene | 11.959 | 91 | 15099 | 1.097 | ug/1 | 96 |
| 68) m/p-Xylenes | 12.071 | 106 | 11055 | 2.144 | ug/1 | 98 |
| 69) o-Xylene | 12.394 | 106 | 5408 | 1.061 | ug/1 | 97 |
| 70) Styrene | 12.406 | 104 | 8925 | 1.051 | ug/1 | 96 |
| 71) Bromoform | 12.576 | 173 | 2089 | 1.103 | ug/1 # | 80 |
| 73) Isopropylbenzene | 12.694 | 105 | 13542 | 1.141 | ug/1 | 98 |
| 74) N-amyl acetate | 12.494 | 43 | 7807 | 1.321 | ug/1 | 91 |
| 75) 1,1,2,2-Tetrachloroethane | 12.935 | 83 | 3910 | 1.145 | ug/1 | 94 |
| 76) 1,2,3-Trichloropropane | 12.988 | 75 | 4407m | 1.293 | ug/1 | |
| 77) Bromobenzene | 12.982 | 156 | 2811 | 1.069 | ug/1 | 90 |
| 78) n-propylbenzene | 13.029 | 91 | 15576 | 1.113 | ug/1 | 98 |
| 79) 2-Chlorotoluene | 13.124 | 91 | 9804 | 1.120 | ug/1 | 99 |
| 80) 1,3,5-Trimethylbenzene | 13.171 | 105 | 11029 | 1.135 | ug/1 | 99 |
| 82) 4-Chlorotoluene | 13.218 | 91 | 9589 | 1.103 | ug/1 | 98 |
| 83) tert-Butylbenzene | 13.435 | 119 | 9817 | 1.166 | ug/1 | 98 |
| 84) 1,2,4-Trimethylbenzene | 13.482 | 105 | 10977 | 1.110 | ug/1 | 96 |
| 85) sec-Butylbenzene | 13.612 | 105 | 12920 | 1.106 | ug/1 | 98 |
| 86) p-Isopropyltoluene | 13.729 | 119 | 10458 | 1.086 | ug/1 | 99 |
| 87) 1,3-Dichlorobenzene | 13.735 | 146 | 5415 | 1.095 | ug/1 | 94 |
| 88) 1,4-Dichlorobenzene | 13.812 | 146 | 5636m | 1.132 | ug/1 | |
| 89) n-Butylbenzene | 14.053 | 91 | 9315 | 1.092 | ug/1 | 99 |
| 90) Hexachloroethane | 14.329 | 117 | 1792 | 1.107 | ug/1 | 86 |
| 91) 1,2-Dichlorobenzene | 14.106 | 146 | 5279 | 1.101 | ug/1 | 95 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.718 | 75 | 679 | 0.987 | ug/1 | 90 |
| 93) 1,2,4-Trichlorobenzene | 15.388 | 180 | 2387 | 1.040 | ug/1 | 93 |
| 94) Hexachlorobutadiene | 15.494 | 225 | 893 | 1.030 | ug/1 | 78 |
| 95) Naphthalene | 15.641 | 128 | 8743 | 1.074 | ug/1 | 97 |
| 96) 1,2,3-Trichlorobenzene | 15.829 | 180 | 2378 | 1.094 | ug/1 | 91 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

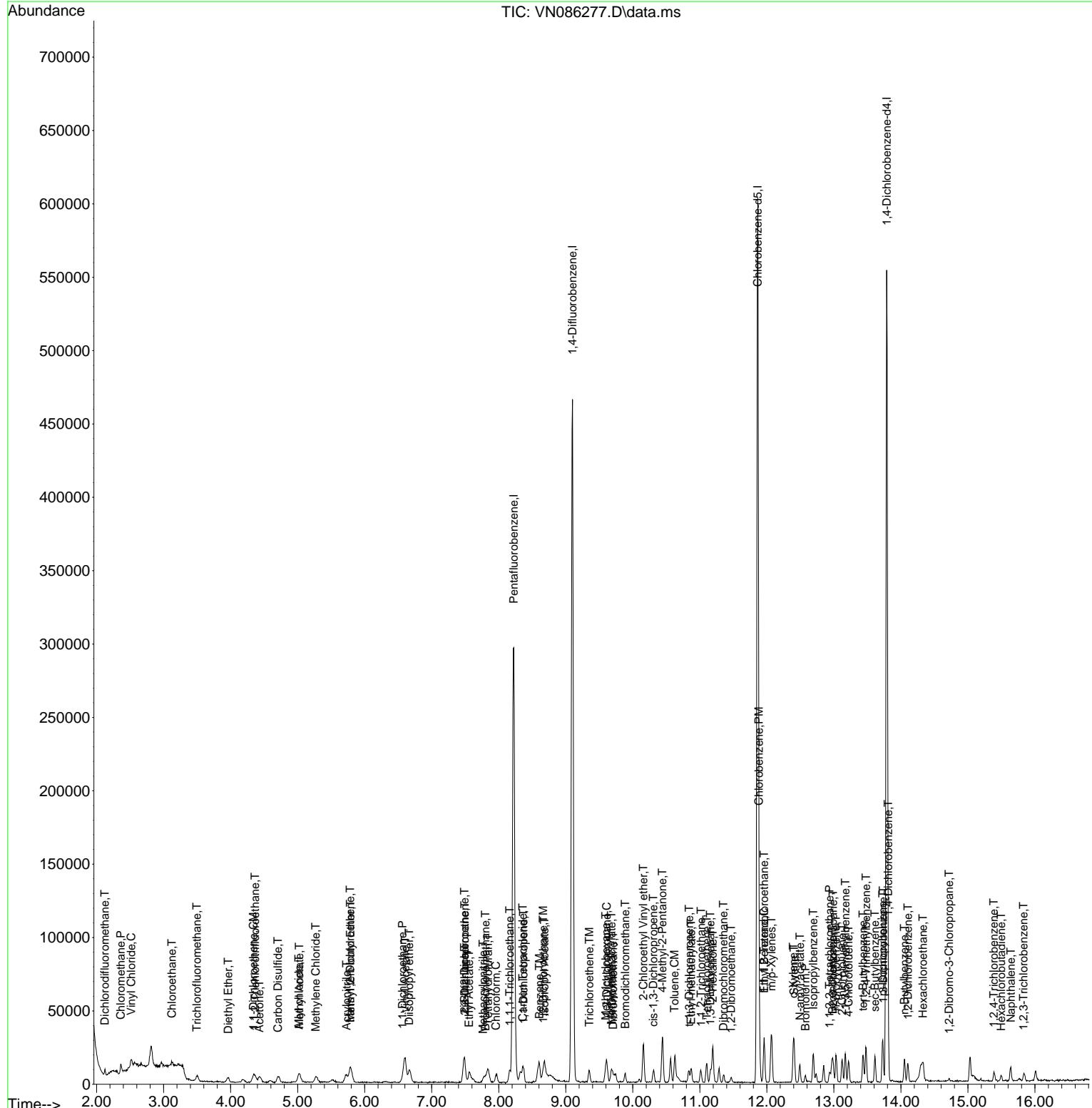
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 Data File : VN086277.D
 Acq On : 15 Apr 2025 11:29
 Operator : JC\MD
 Sample : VSTDIICC001
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

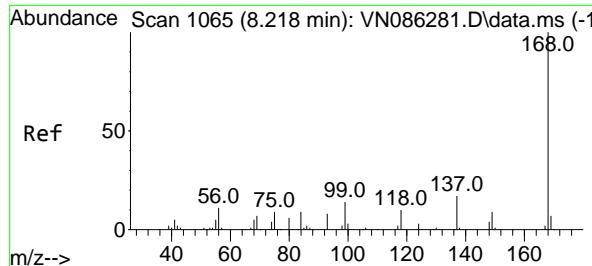
Instrument :
MSVOA_N
ClientSampleId :
VSTDIICC001

Quant Time: Apr 16 03:54:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 03:42:50 2025
 Response via : Initial Calibration

Manual Integrations
APPROVED

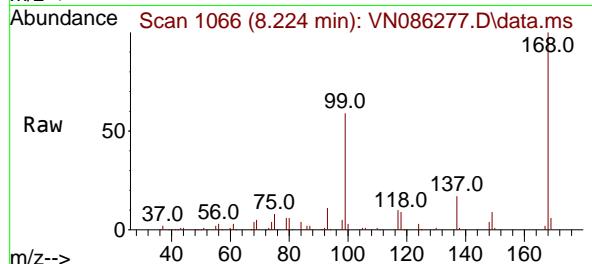
Reviewed By :John Carlane 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN086277.D
Acq: 15 Apr 2025 11:29

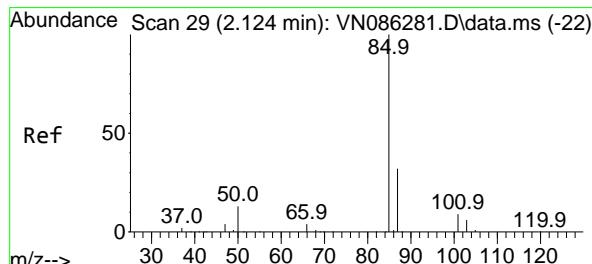
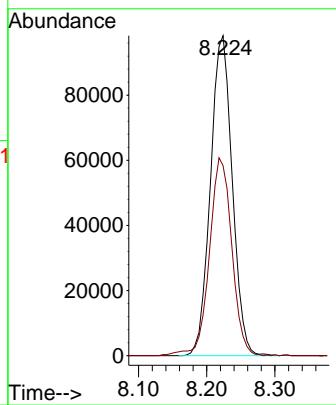
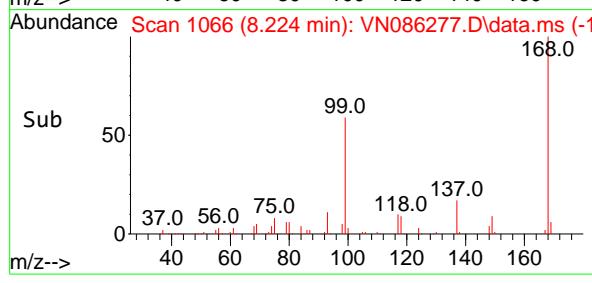
Instrument : MSVOA_N
ClientSampleId : VSTDICC001



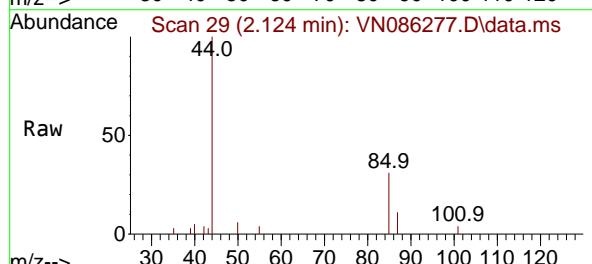
Tgt Ion:168 Resp: 218863
Ion Ratio Lower Upper
168 100
99 59.4 52.5 78.7

Manual Integrations APPROVED

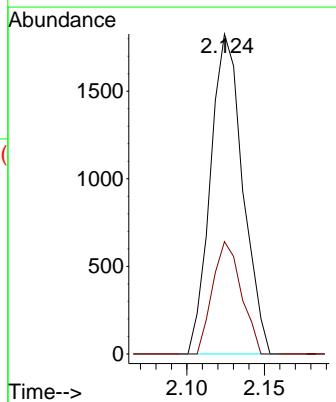
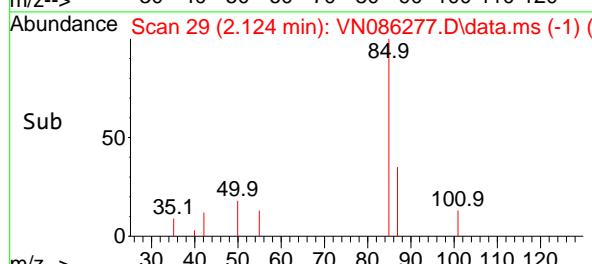
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

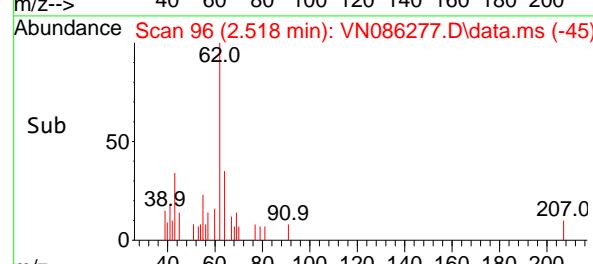
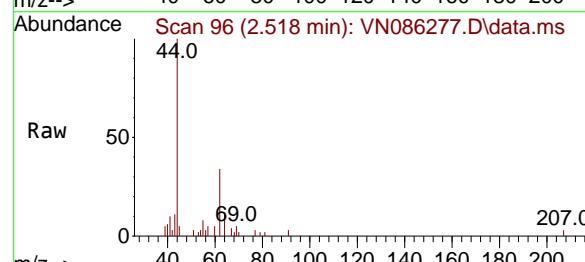
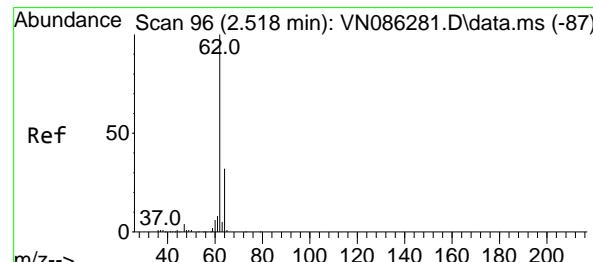
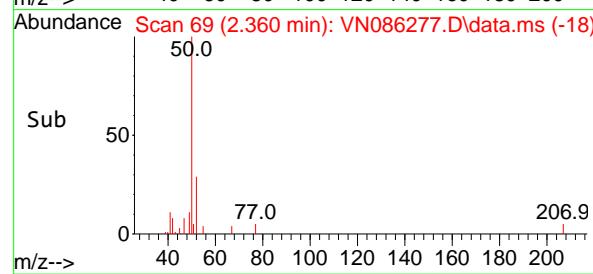
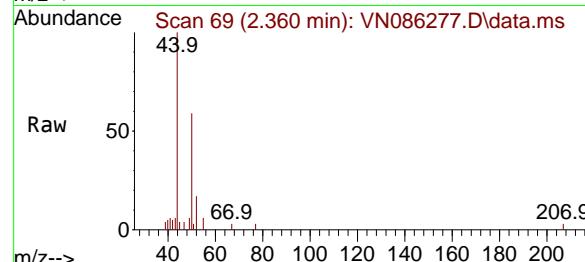
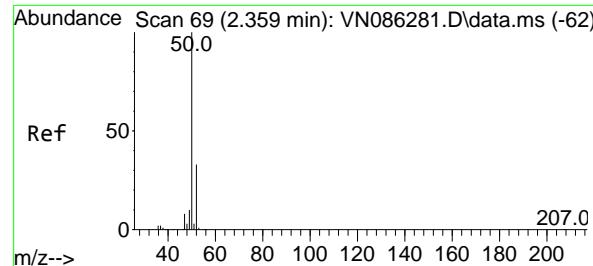


#2
Dichlorodifluoromethane
Concen: 1.022 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN086277.D
Acq: 15 Apr 2025 11:29



Tgt Ion: 85 Resp: 2651
Ion Ratio Lower Upper
85 100
87 35.1 16.3 48.8





#3

Chloromethane

Concen: 1.292 ug/l

RT: 2.360 min Scan# 6

Delta R.T. 0.000 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion: 50 Resp: 487:

Ion Ratio Lower Upper

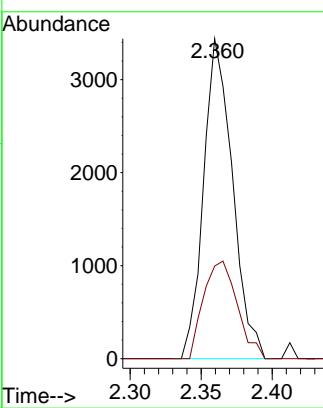
50 100

52 29.0 26.5 39.7

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#4

Vinyl Chloride

Concen: 1.092 ug/l

RT: 2.518 min Scan# 96

Delta R.T. 0.000 min

Lab File: VN086277.D

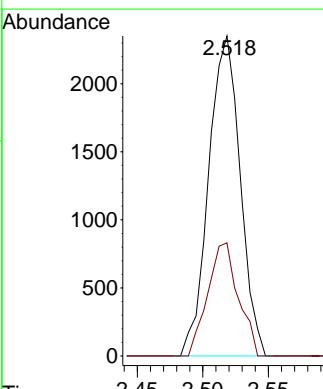
Acq: 15 Apr 2025 11:29

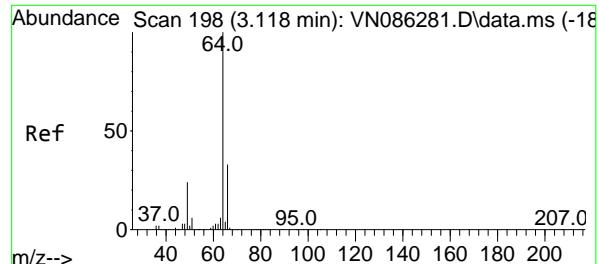
Tgt Ion: 62 Resp: 3928

Ion Ratio Lower Upper

62 100

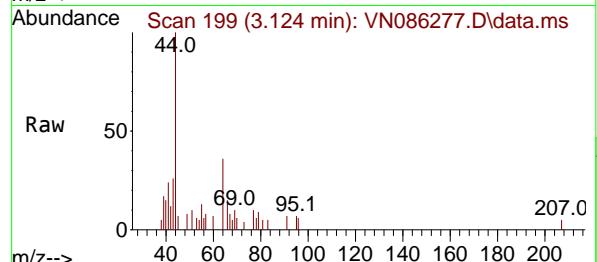
64 35.3 25.6 38.4





#6
Chloroethane
Concen: 1.182 ug/l
RT: 3.124 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN086277.D
Acq: 15 Apr 2025 11:29

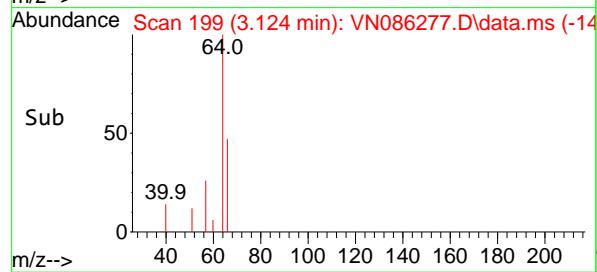
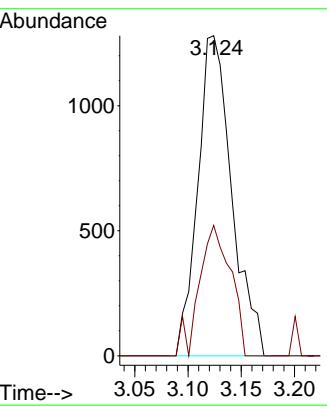
Instrument : MSVOA_N
ClientSampleId : VSTDICC001



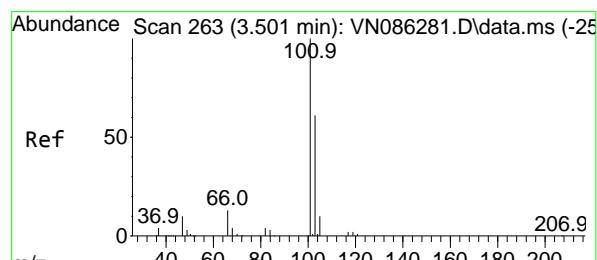
Tgt Ion: 64 Resp: 2840
Ion Ratio Lower Upper
64 100
66 40.7 26.2 39.2

Manual Integrations APPROVED

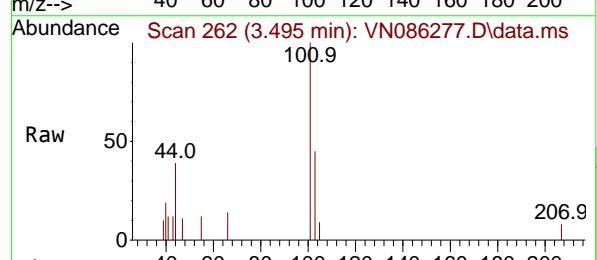
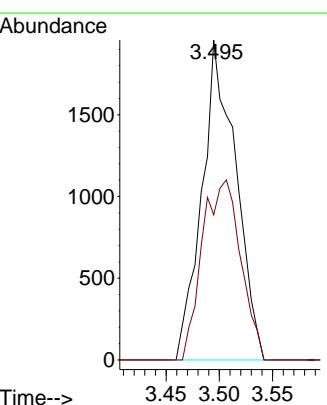
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



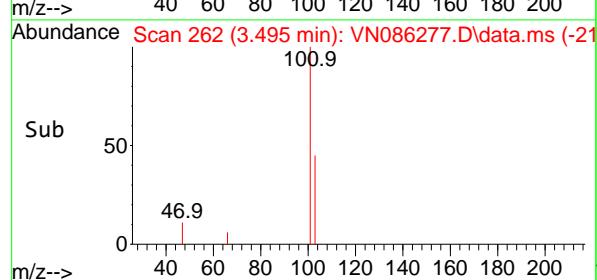
#7
Trichlorofluoromethane
Concen: 1.086 ug/l
RT: 3.495 min Scan# 262
Delta R.T. -0.006 min
Lab File: VN086277.D
Acq: 15 Apr 2025 11:29

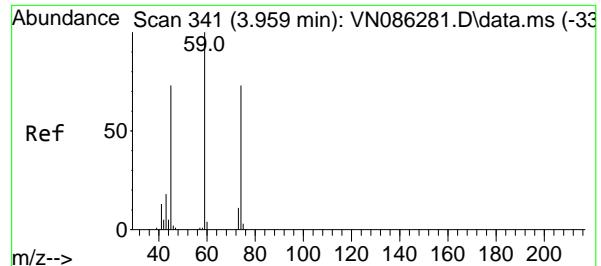


Tgt Ion:101 Resp: 4327
Ion Ratio Lower Upper
101 100
103 45.4 49.2 73.8#



Abundance Scan 262 (3.495 min): VN086277.D\data.ms (-21)





#8

Diethyl Ether

Concen: 1.065 ug/l

RT: 3.965 min Scan# 341

Delta R.T. 0.006 min

Lab File: VN086277.D

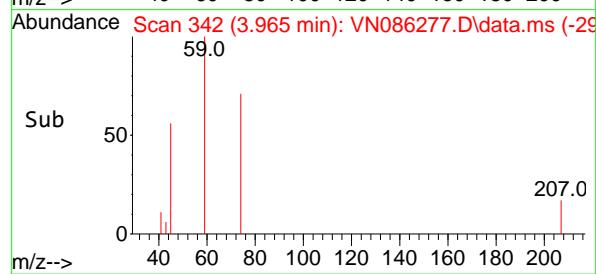
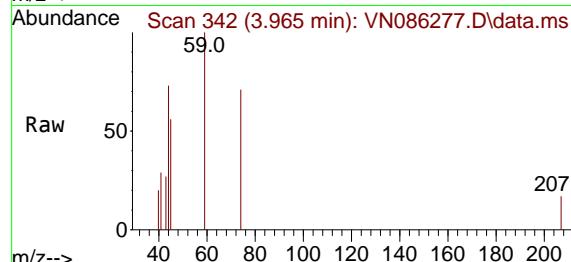
Acq: 15 Apr 2025 11:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001



Tgt Ion: 74 Resp: 1853

Ion Ratio Lower Upper

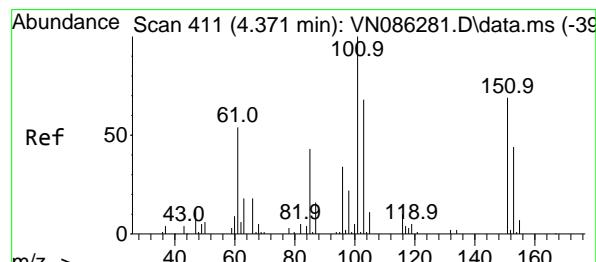
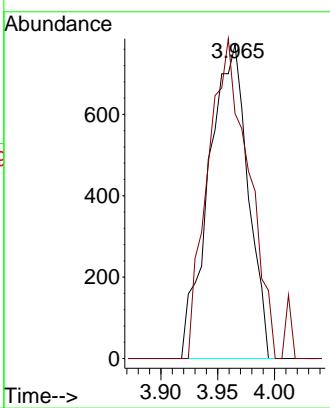
74 100

45 105.3 48.0 144.2

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#9

1,1,2-Trichlorotrifluoroethane

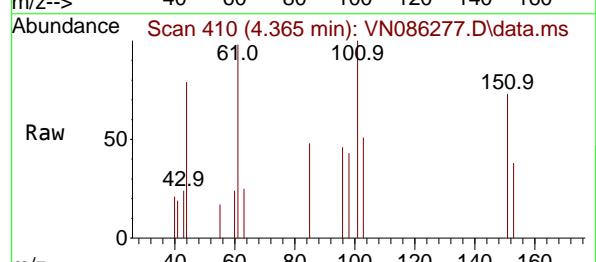
Concen: 1.047 ug/l

RT: 4.365 min Scan# 410

Delta R.T. -0.006 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29



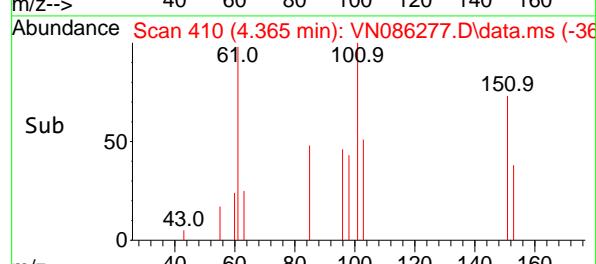
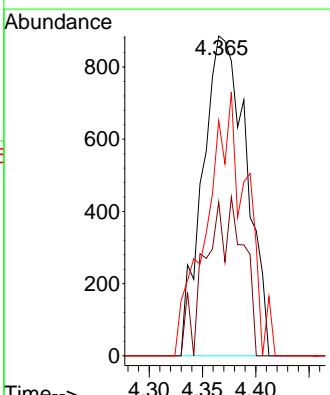
Tgt Ion:101 Resp: 2525

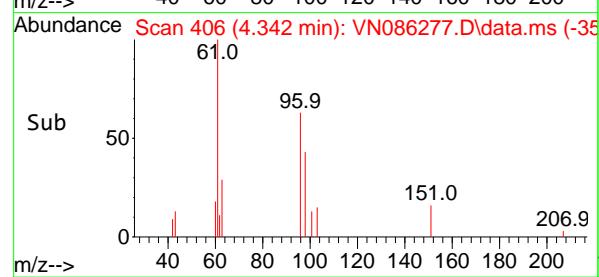
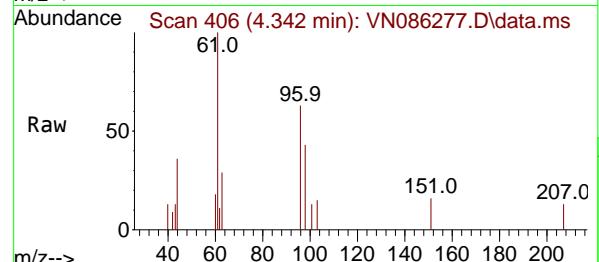
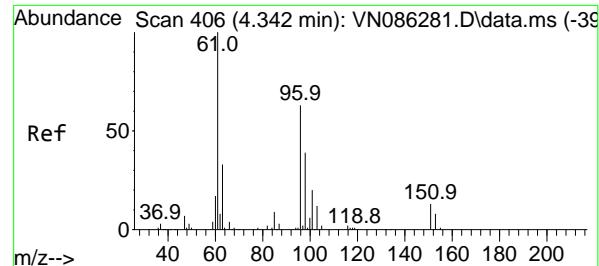
Ion Ratio Lower Upper

101 100

85 23.9 34.7 52.1#

151 75.8 56.1 84.1





#12

1,1-Dichloroethene

Concen: 1.122 ug/l

RT: 4.342 min Scan# 4

Delta R.T. 0.000 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

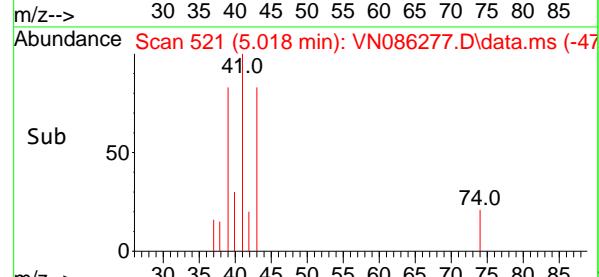
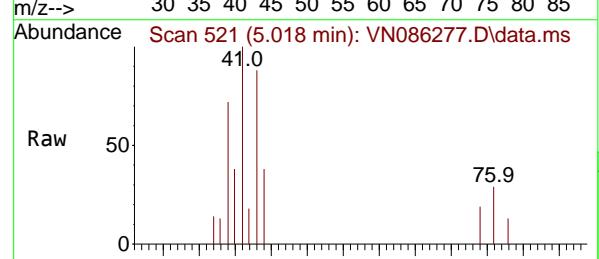
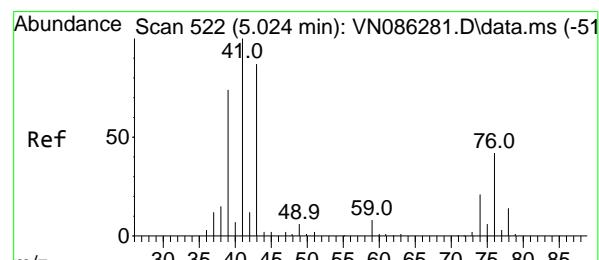
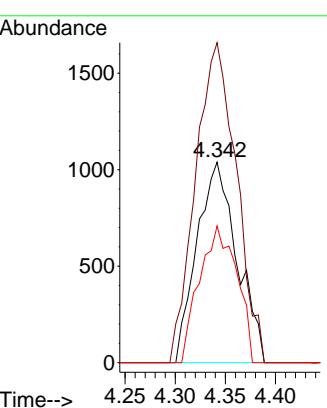
Instrument:

MSVOA_N

ClientSampleId :

VSTDICC001

**Manual Integrations
APPROVED**

 Reviewed By :John Carbone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#14

Allyl chloride

Concen: 1.272 ug/l

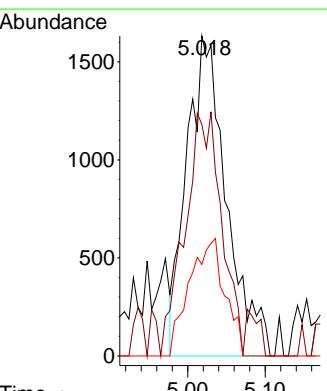
RT: 5.018 min Scan# 521

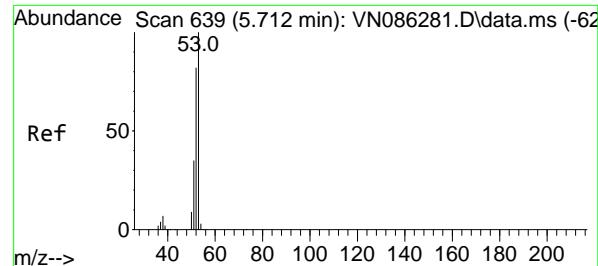
Delta R.T. -0.006 min

Lab File: VN086277.D

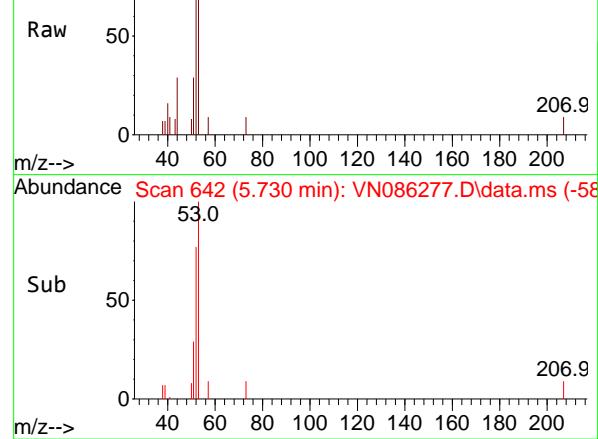
Acq: 15 Apr 2025 11:29

| Tgt | Ion | Ion Ratio | Resp: | Lower | Upper |
|-----|------|-----------|-------|-------|-------|
| 41 | 100 | | 5821 | | |
| 39 | 70.2 | 59.2 | | 88.8 | |
| 76 | 32.9 | 31.2 | | 46.8 | |

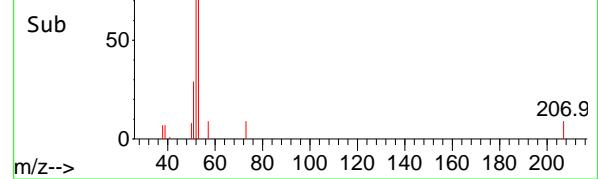




Abundance Scan 642 (5.730 min): VN086277.D\data.ms



Abundance Scan 642 (5.730 min): VN086277.D\data.ms (-58)



#15

Acrylonitrile

Concen: 5.069 ug/l

RT: 5.730 min Scan# 6

Delta R.T. 0.018 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion: 53 Resp: 7250

Ion Ratio Lower Upper

53 100

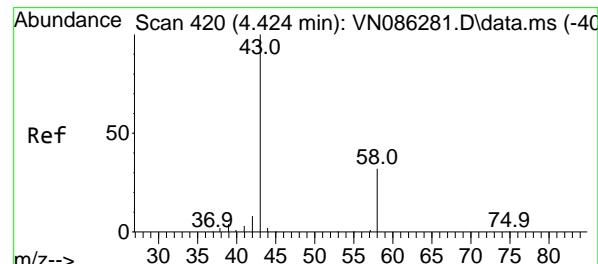
52 81.7 65.5 98.3

51 36.3 28.6 42.8

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



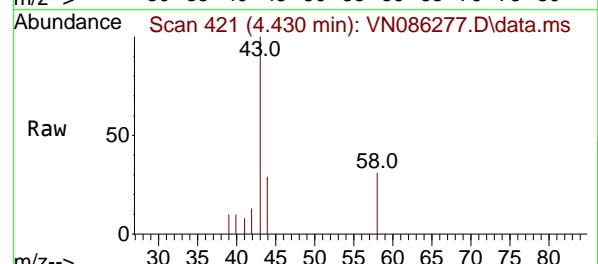
Ref

43.0

58.0

74.9

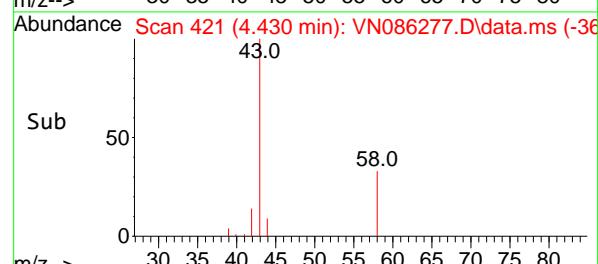
36.9



Raw

43.0

58.0



Sub

43.0

58.0

#16

Acetone

Concen: 2.774 ug/l m

RT: 4.430 min Scan# 421

Delta R.T. 0.006 min

Lab File: VN086277.D

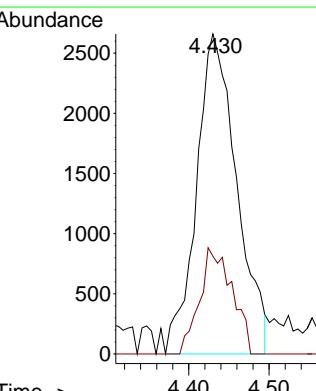
Acq: 15 Apr 2025 11:29

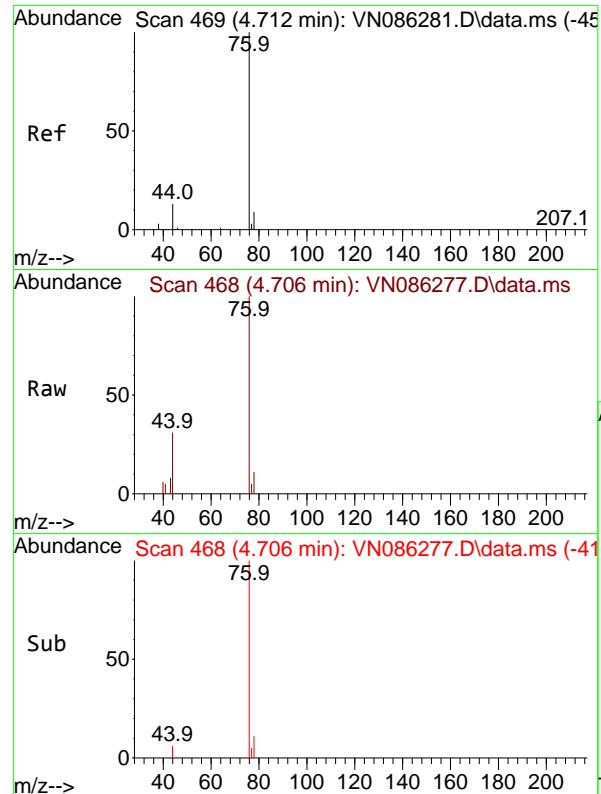
Tgt Ion: 43 Resp: 9264

Ion Ratio Lower Upper

43 100

58 30.5 25.3 37.9





#17

Carbon Disulfide

Concen: 1.319 ug/l

RT: 4.706 min Scan# 4

Delta R.T. -0.006 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

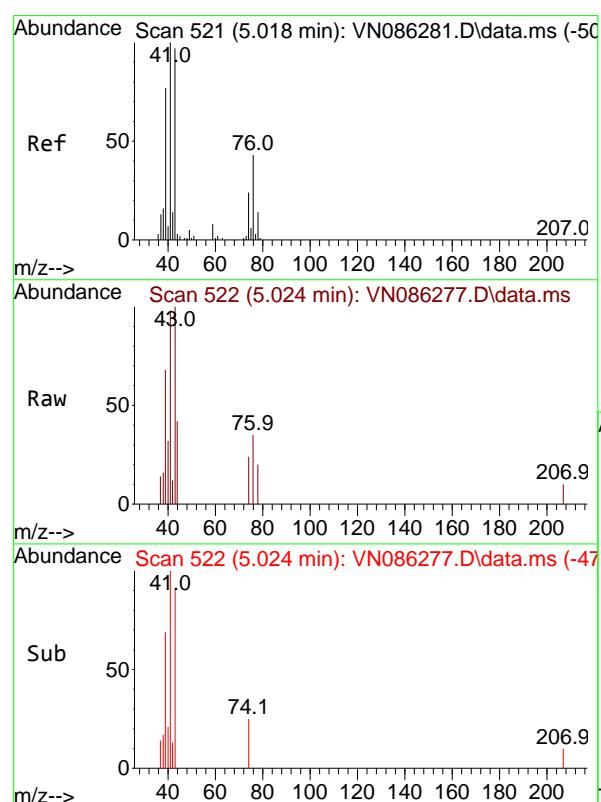
Instrument:

MSVOA_N

ClientSampleId :

VSTDICC001

Manual Integrations
APPROVED

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#18

Methyl Acetate

Concen: 1.176 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.006 min

Lab File: VN086277.D

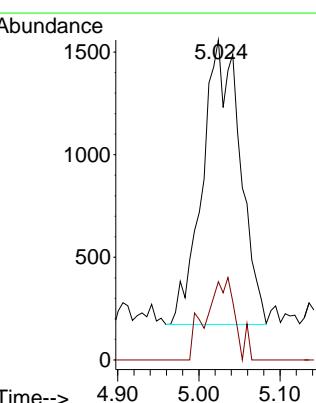
Acq: 15 Apr 2025 11:29

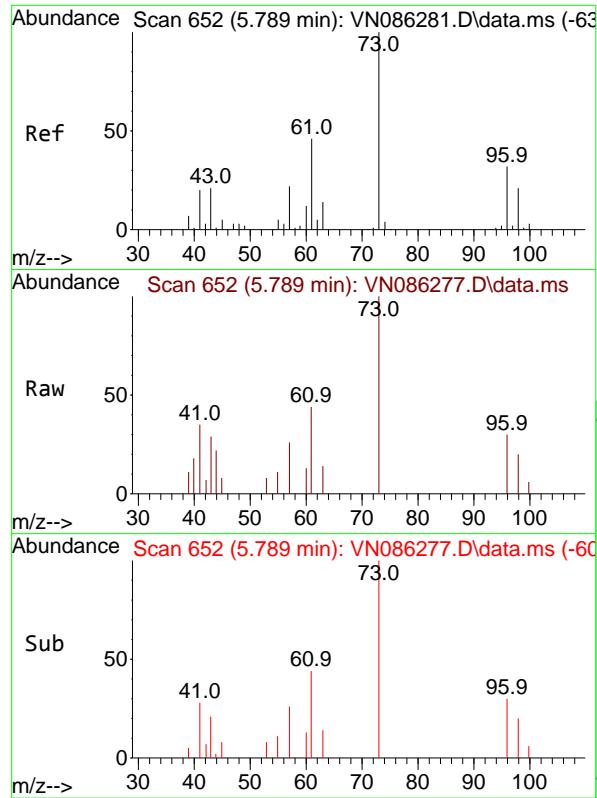
Tgt Ion: 43 Resp: 4481

Ion Ratio Lower Upper

43 100

74 20.9 19.8 29.6





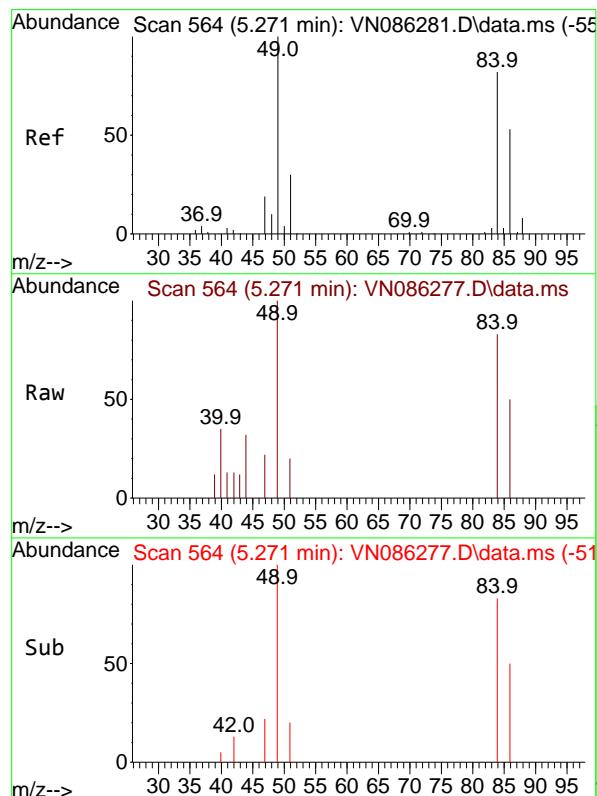
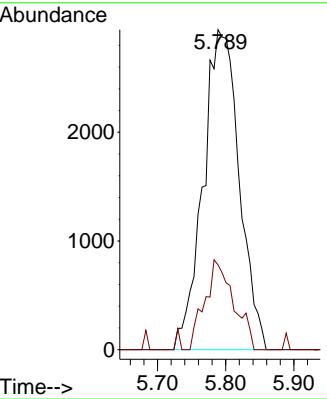
#19

Methyl tert-butyl Ether
Concen: 1.145 ug/l
RT: 5.789 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN086277.D
Acq: 15 Apr 2025 11:29

Instrument : MSVOA_N
ClientSampleId : VSTDICC001

Manual Integrations
APPROVED

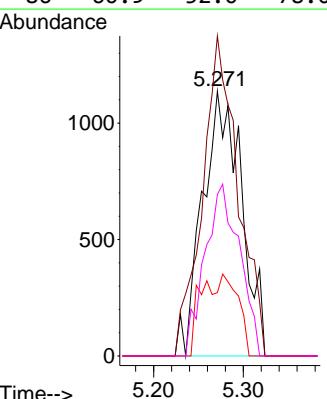
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

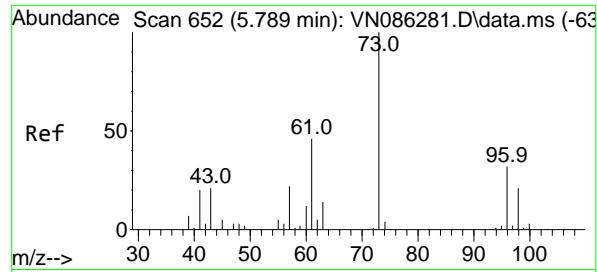


#20

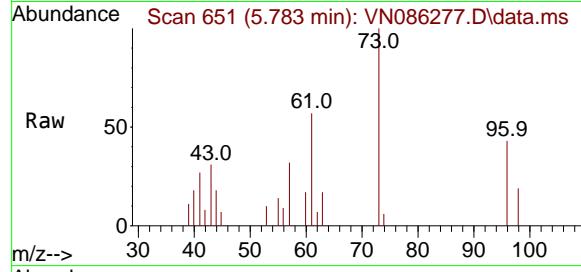
Methylene Chloride
Concen: 1.167 ug/l
RT: 5.271 min Scan# 564
Delta R.T. 0.000 min
Lab File: VN086277.D
Acq: 15 Apr 2025 11:29

Tgt Ion: 84 Resp: 3423
Ion Ratio Lower Upper
84 100
49 120.8 98.2 147.2
51 23.9 29.8 44.6#
86 60.9 52.0 78.0





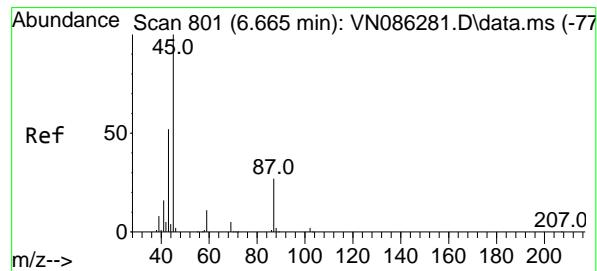
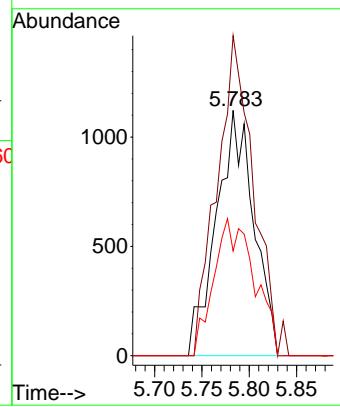
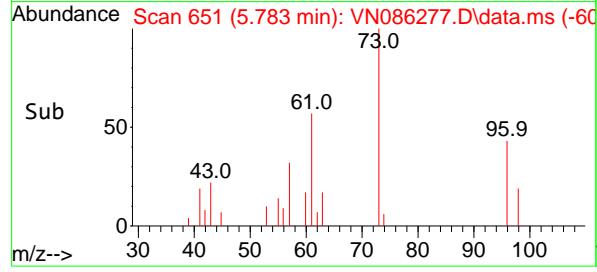
#21
trans-1,2-Dichloroethene
Concen: 1.143 ug/l
RT: 5.783 min Scan# 6
Delta R.T. -0.006 min
Lab File: VN086277.D
Acq: 15 Apr 2025 11:29



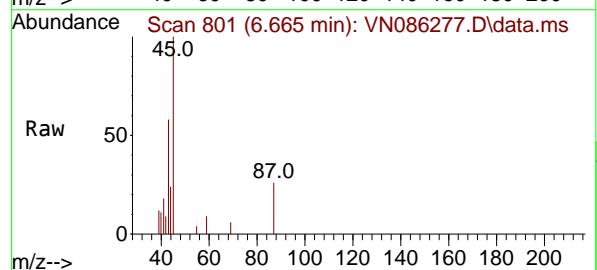
Tgt Ion: 96 Resp: 3079
Ion Ratio Lower Upper
96 100
61 130.5 114.6 171.8
98 42.7 51.2 76.8

Manual Integrations APPROVED

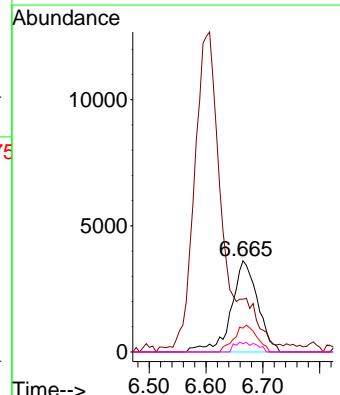
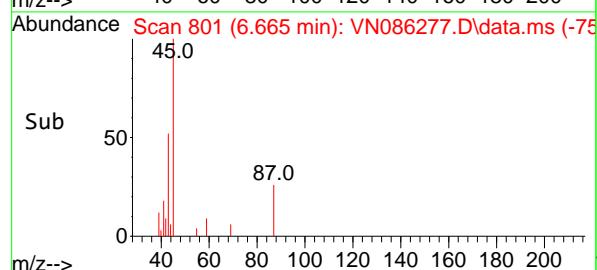
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

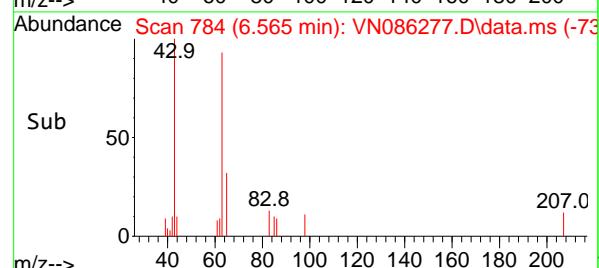
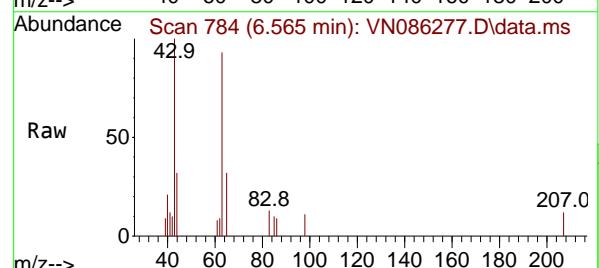
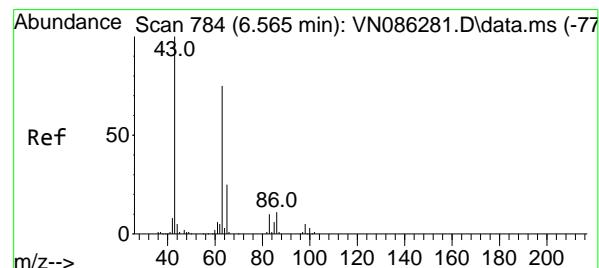
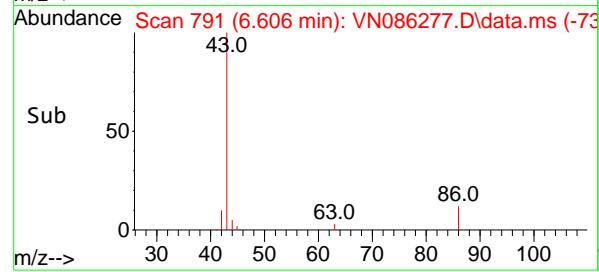
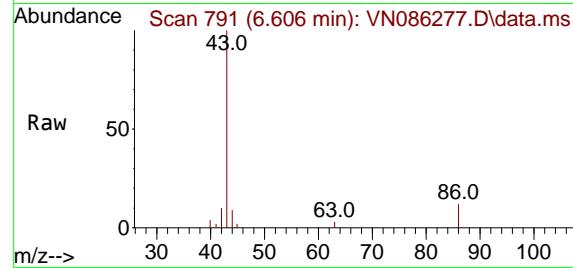
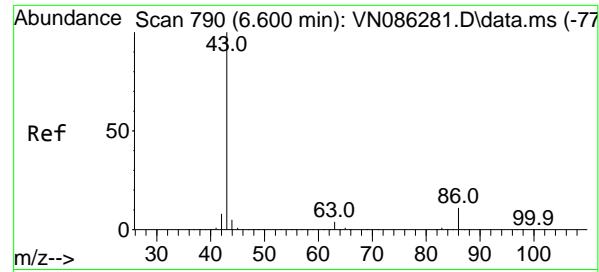


#22
Diisopropyl ether
Concen: 1.169 ug/l
RT: 6.665 min Scan# 801
Delta R.T. 0.000 min
Lab File: VN086277.D
Acq: 15 Apr 2025 11:29



Tgt Ion: 45 Resp: 11644
Ion Ratio Lower Upper
45 100
43 51.1 41.8 62.8
87 26.2 21.6 32.4
59 9.1 9.0 13.4





#23

Vinyl Acetate

Concen: 5.479 ug/l

RT: 6.606 min Scan# 7

Delta R.T. 0.006 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

Instrument:

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion: 43 Resp: 3814

Ion Ratio Lower Upper

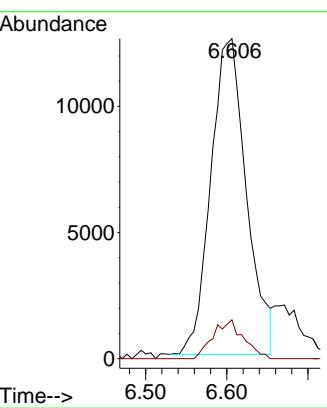
43 100

86 12.3 8.6 13.0

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#24

1,1-Dichloroethane

Concen: 1.095 ug/l

RT: 6.565 min Scan# 784

Delta R.T. 0.000 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

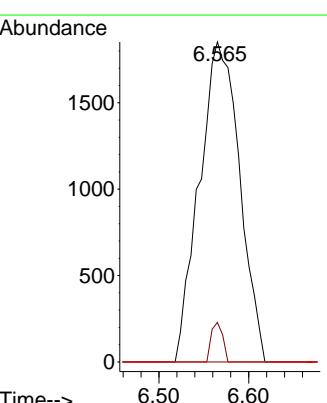
Tgt Ion: 63 Resp: 5756

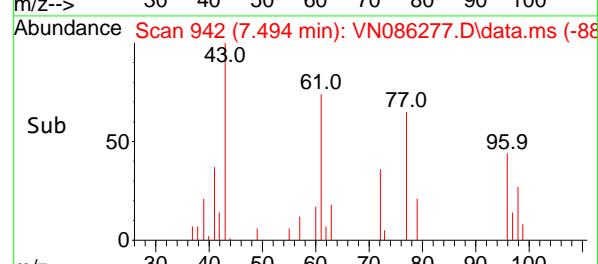
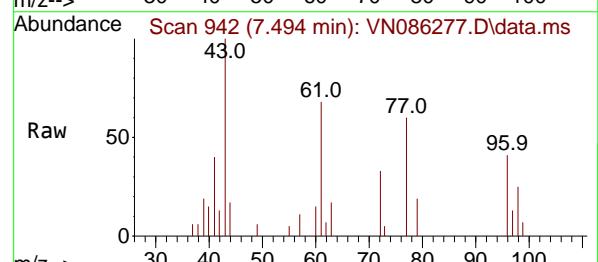
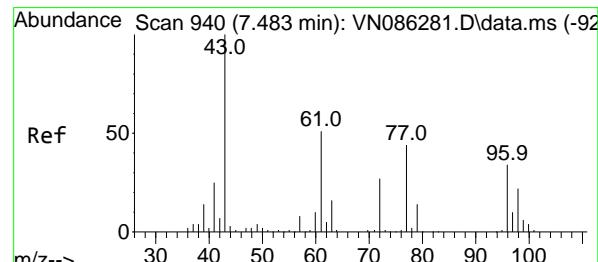
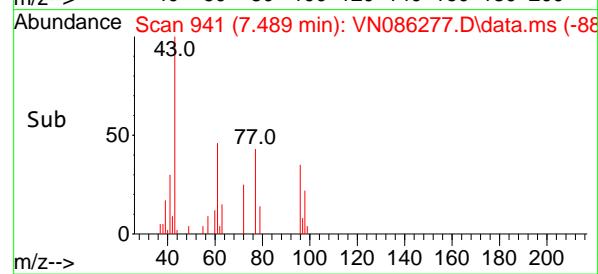
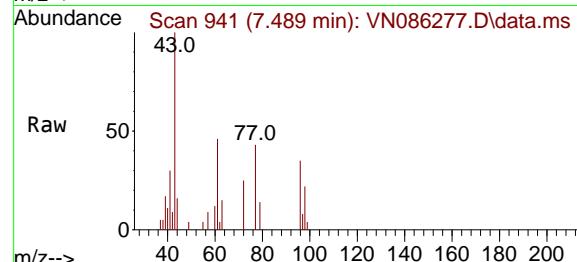
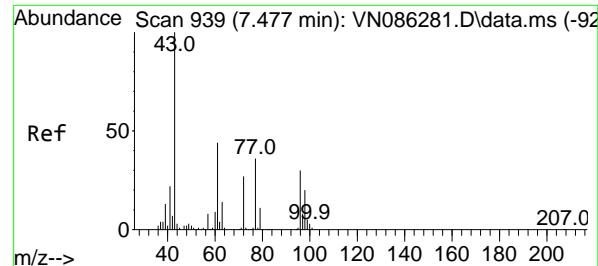
Ion Ratio Lower Upper

63 100

98 12.3 3.4 10.2#

100 0.0 2.1 6.5#





#25

2-Butanone

Concen: 5.581 ug/l

RT: 7.489 min Scan# 9

Delta R.T. 0.012 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion: 43 Resp: 11020

Ion Ratio Lower Upper

43 100

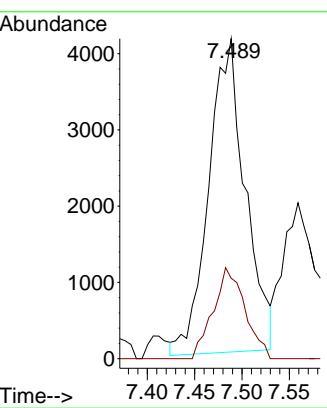
72 26.5 21.7 32.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025

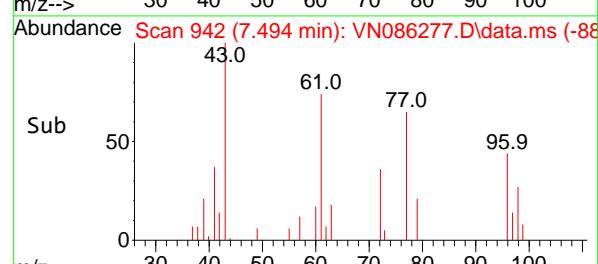
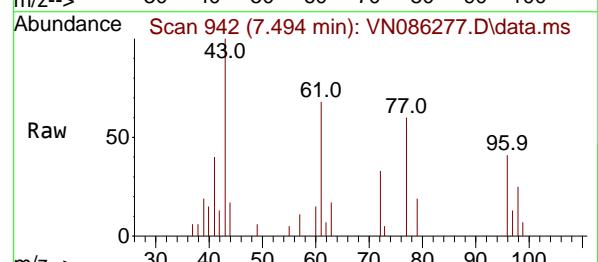
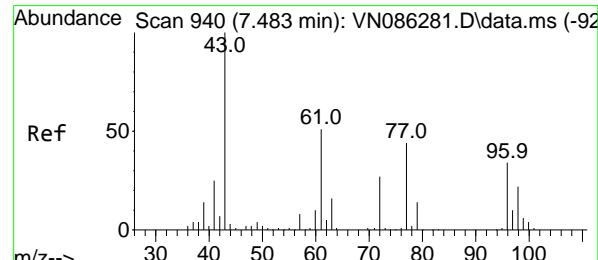


7.40

7.45

7.50

7.55



#26

2,2-Dichloropropane

Concen: 1.092 ug/l

RT: 7.494 min Scan# 942

Delta R.T. 0.012 min

Lab File: VN086277.D

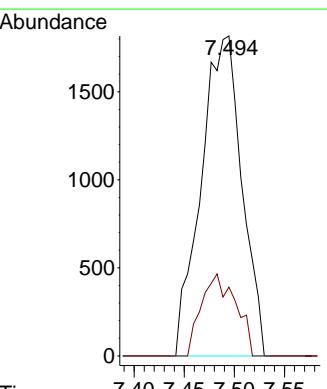
Acq: 15 Apr 2025 11:29

Tgt Ion: 77 Resp: 5139

Ion Ratio Lower Upper

77 100

97 21.7 11.2 33.5

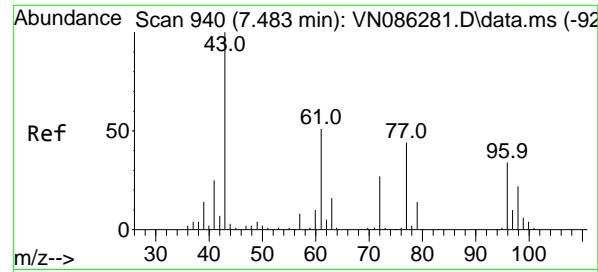


7.40

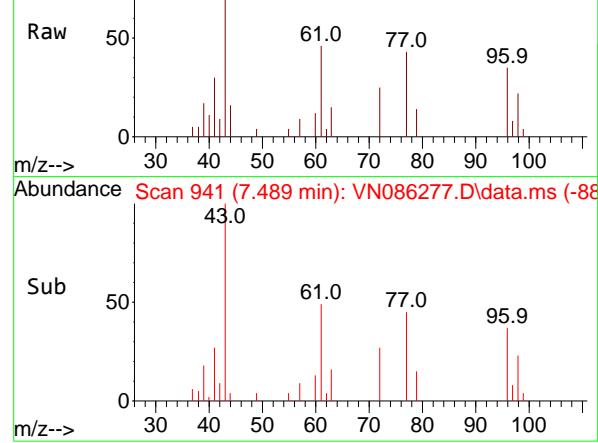
7.45

7.50

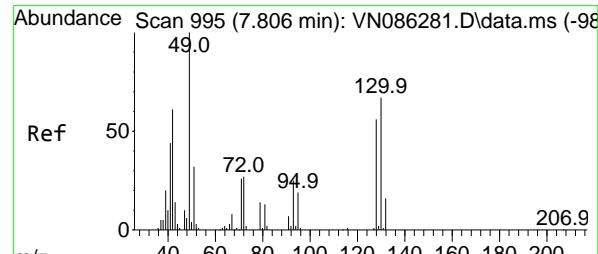
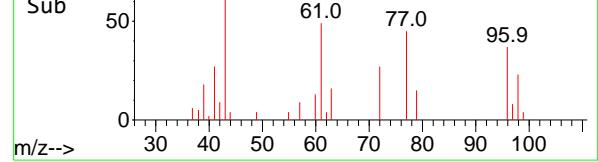
7.55



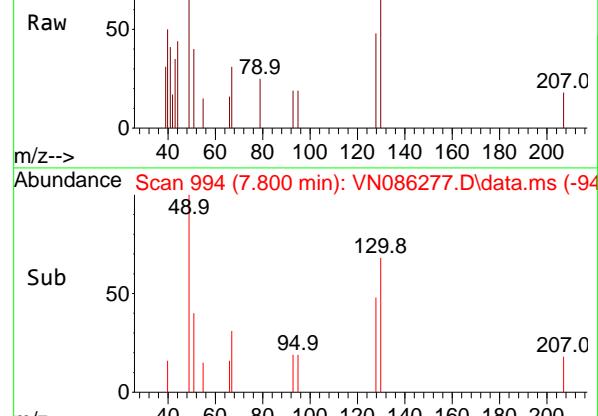
Abundance Scan 941 (7.489 min): VN086277.D\data.ms



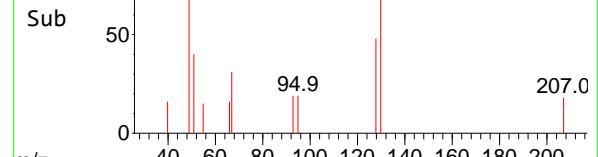
Abundance Scan 941 (7.489 min): VN086277.D\data.ms (-88)



Abundance Scan 994 (7.800 min): VN086277.D\data.ms



Abundance Scan 994 (7.800 min): VN086277.D\data.ms (-94)



#27

cis-1,2-Dichloroethene

Concen: 1.154 ug/l

RT: 7.489 min Scan# 9

Delta R.T. 0.006 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

Instrument :

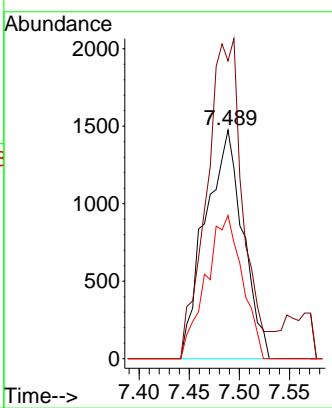
MSVOA_N

ClientSampleId :

VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#28

Bromochloromethane

Concen: 1.071 ug/l

RT: 7.800 min Scan# 994

Delta R.T. -0.006 min

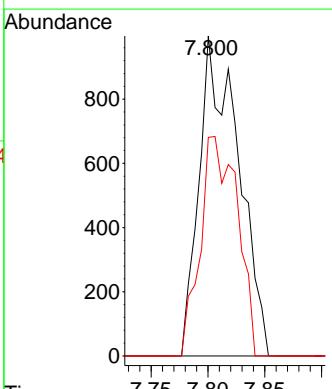
Lab File: VN086277.D

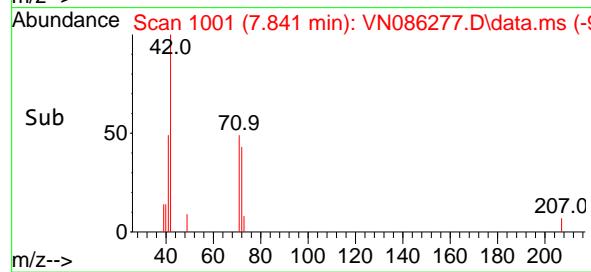
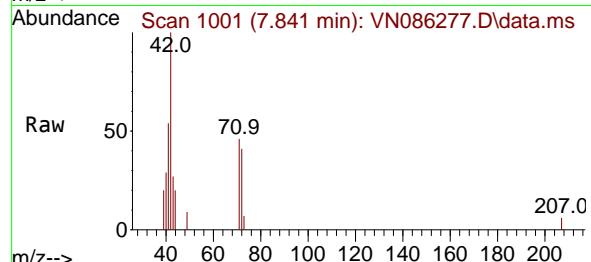
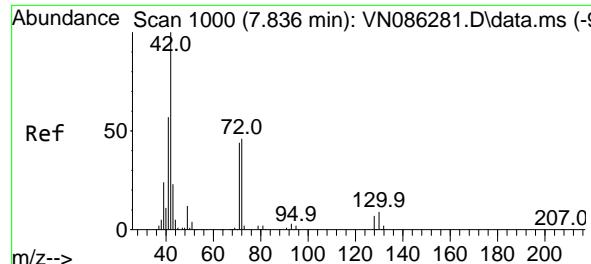
Acq: 15 Apr 2025 11:29

Tgt Ion: 49 Resp: 2387

Ion Ratio Lower Upper

| | | | |
|-----|------|------|------|
| 49 | 100 | | |
| 129 | 0.0 | 0.0 | 3.4 |
| 130 | 64.9 | 57.1 | 85.7 |





#29

Tetrahydrofuran

Concen: 5.577 ug/l

RT: 7.841 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

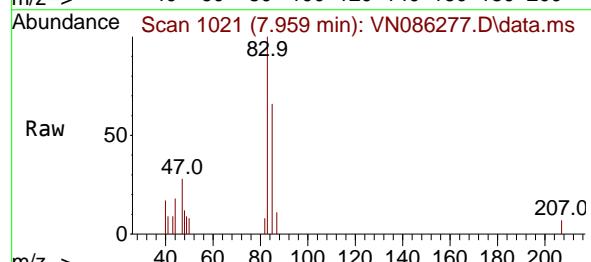
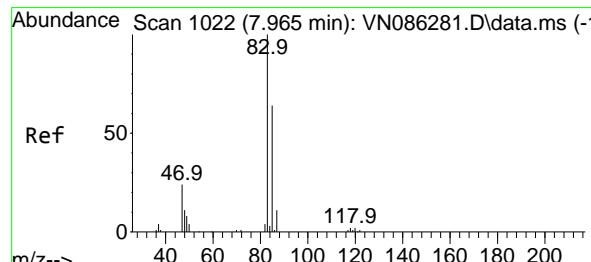
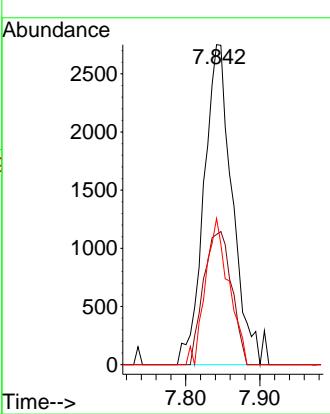
Instrument:

MSVOA_N

ClientSampleId :

VSTDICC001

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#30

Chloroform

Concen: 1.118 ug/l

RT: 7.959 min Scan# 1021

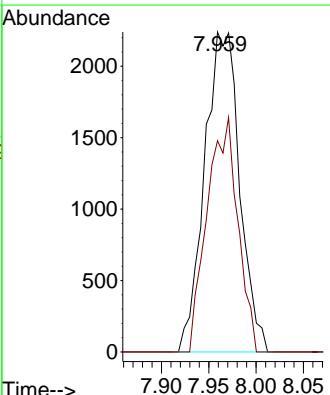
Delta R.T. -0.006 min

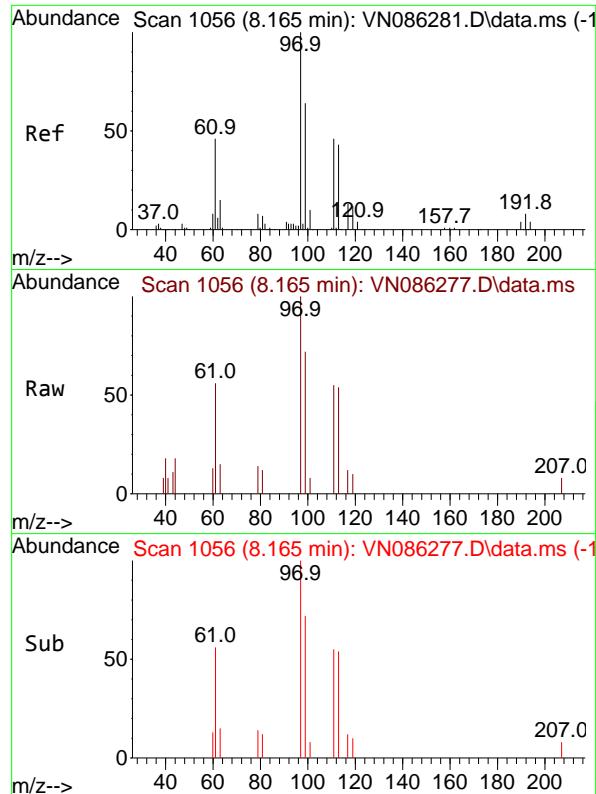
Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

Tgt Ion: 83 Resp: 5771

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83 | 100 | | |
| 85 | 66.0 | 51.5 | 77.3 |





#32

1,1,1-Trichloroethane

Concen: 1.085 ug/l

RT: 8.165 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

Instrument :

MSVOA_N

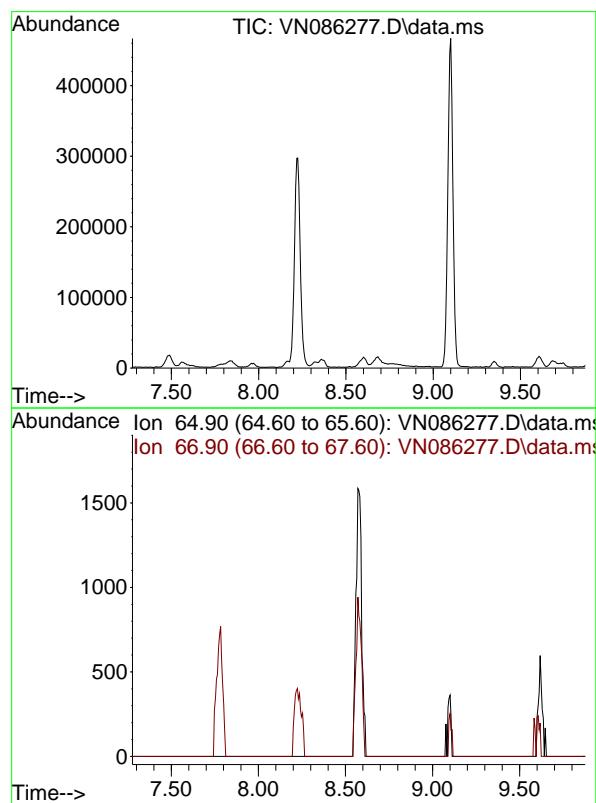
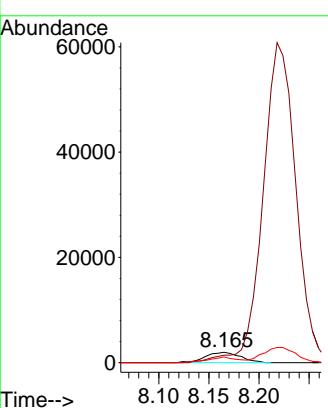
ClientSampleId :

VSTDICC001

**Manual Integrations
APPROVED**

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#33

1,2-Dichloroethane-d4

Concen: 0.000 ug/l

Expected RT: 8.58 min

Lab File: VN086277.D

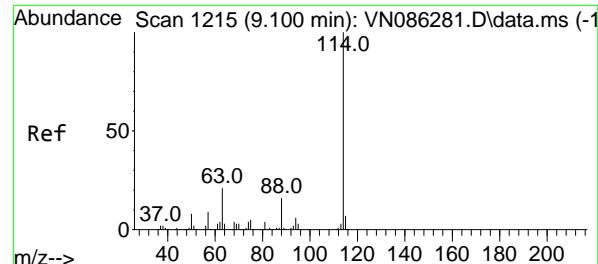
Acq: 15 Apr 2025 11:29

Tgt Ion: 65

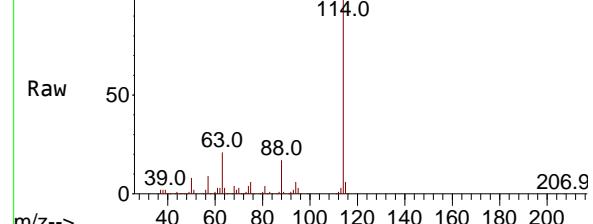
Sig Exp Ratio

65 100

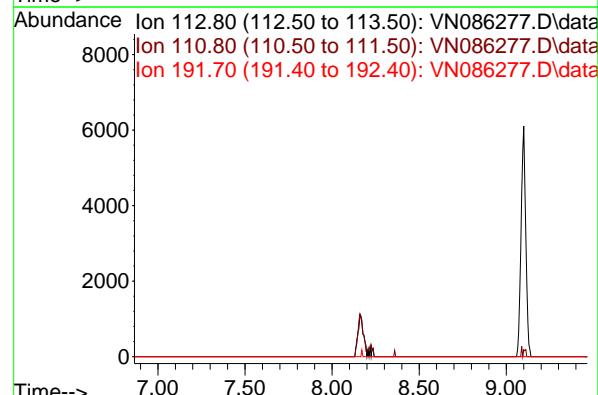
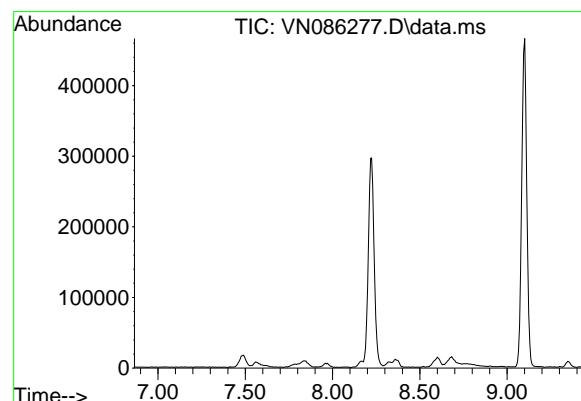
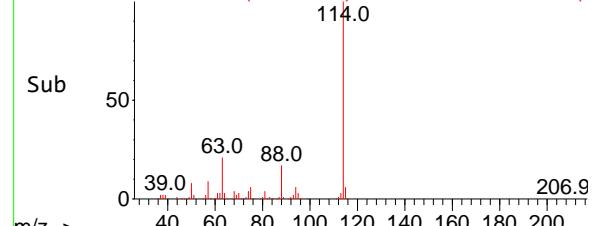
67 53.0



Abundance Scan 1215 (9.100 min): VN086277.D\data.ms



Abundance Scan 1215 (9.100 min): VN086277.D\data.ms (-1)



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

Instrument :

MSVOA_N

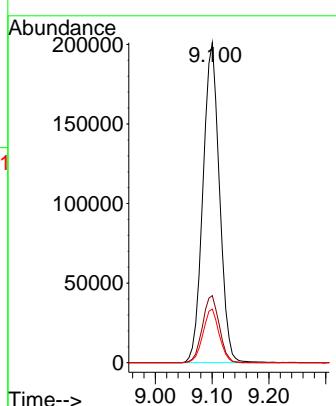
ClientSampleId :

VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#35

Dibromofluoromethane

Concen: 0.000 ug/l

Expected RT: 8.16 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

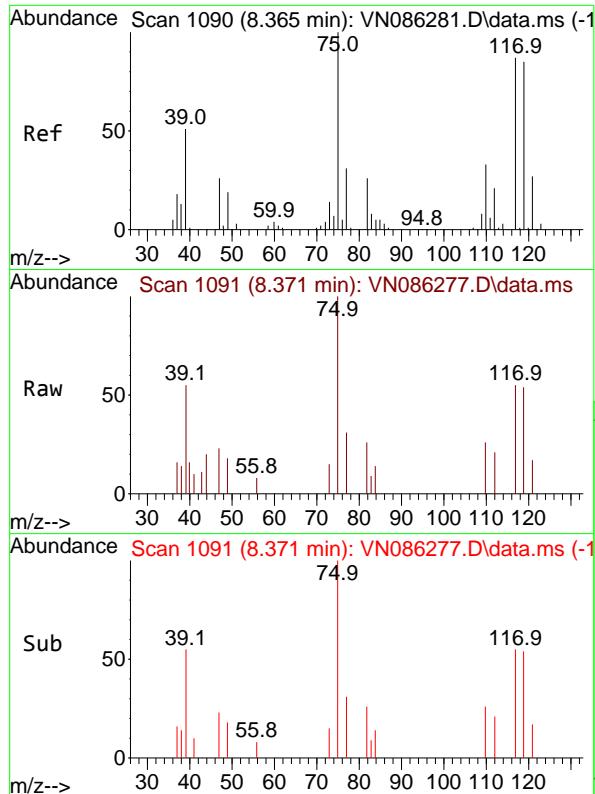
Tgt Ion: 113

Sig Exp Ratio

113 100

111 104.2

192 17.1



#36

1,1-Dichloropropene

Concen: 1.099 ug/l

RT: 8.371 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

Instrument:

MSVOA_N

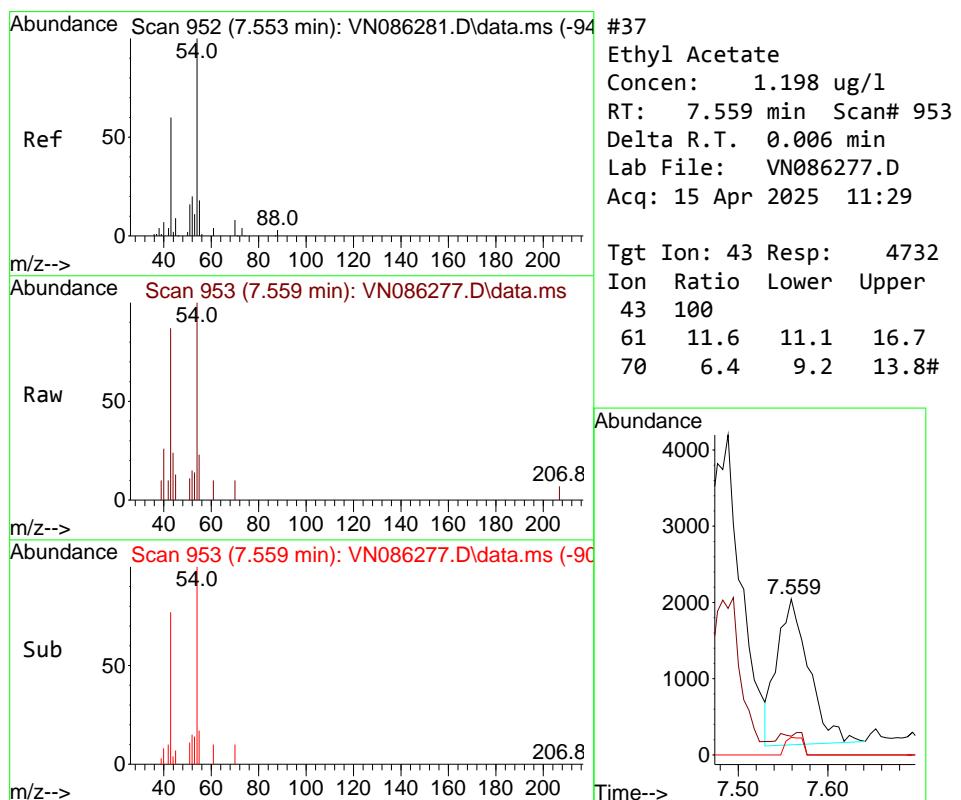
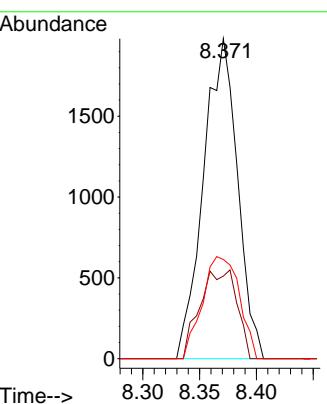
ClientSampleId :

VSTDICC001

**Manual Integrations
APPROVED**

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#37

Ethyl Acetate

Concen: 1.198 ug/l

RT: 7.559 min Scan# 953

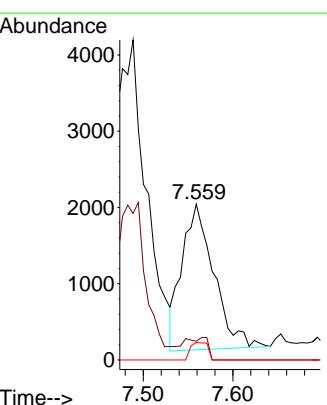
Delta R.T. 0.006 min

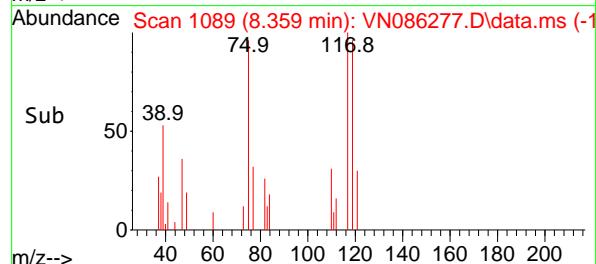
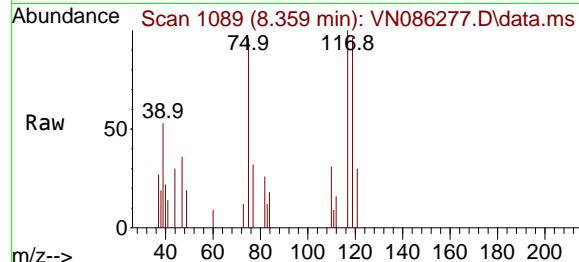
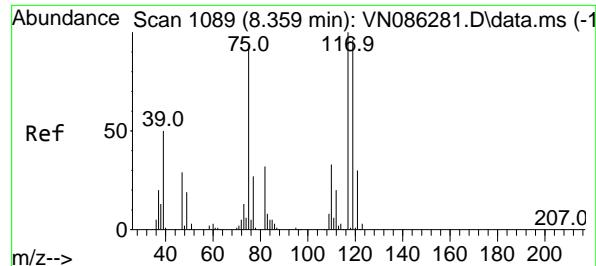
Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

Tgt Ion: 43 Resp: 4732

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43 | 100 | | |
| 61 | 11.6 | 11.1 | 16.7 |
| 70 | 6.4 | 9.2 | 13.8 |





#38

Carbon Tetrachloride

Concen: 1.066 ug/l

RT: 8.359 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

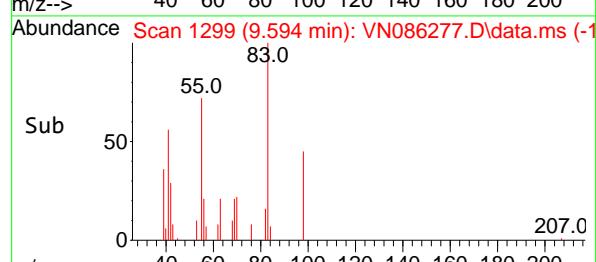
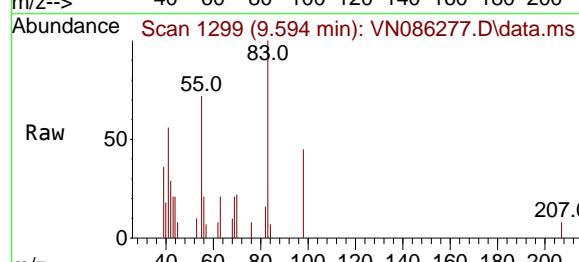
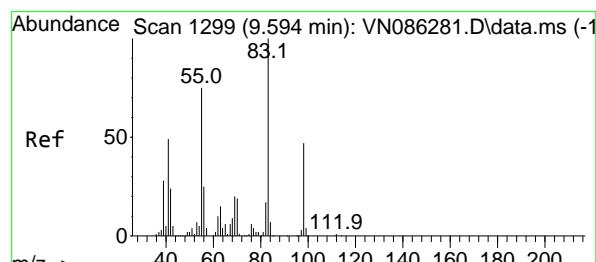
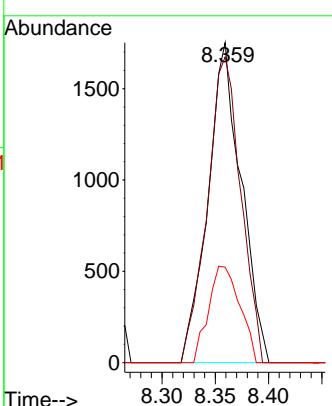
Instrument:

MSVOA_N

ClientSampleId :

VSTDICC001

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#39

Methylcyclohexane

Concen: 1.110 ug/l

RT: 9.594 min Scan# 1299

Delta R.T. 0.000 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

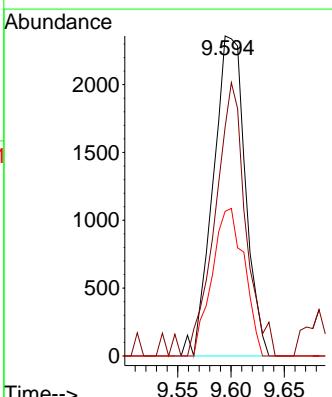
Tgt Ion: 83 Resp: 4950

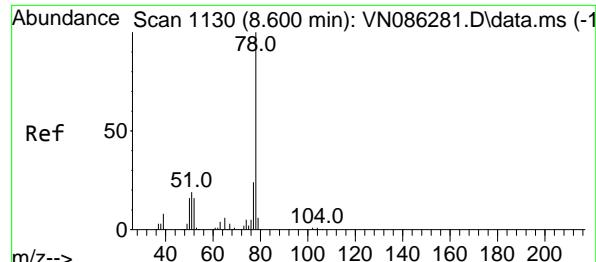
Ion Ratio Lower Upper

83 100

55 71.5 59.8 89.8

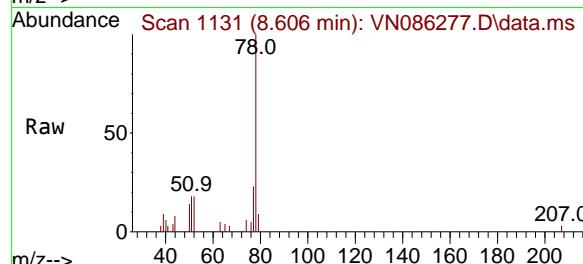
98 45.2 37.9 56.9





#40
Benzene
Concen: 1.110 ug/l
RT: 8.606 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN086277.D
Acq: 15 Apr 2025 11:29

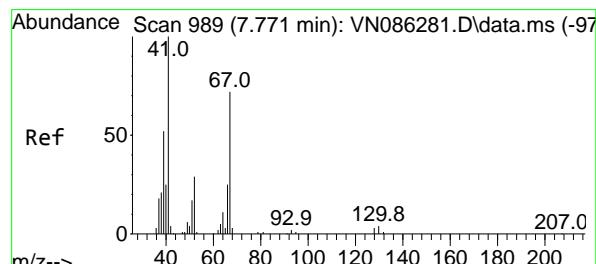
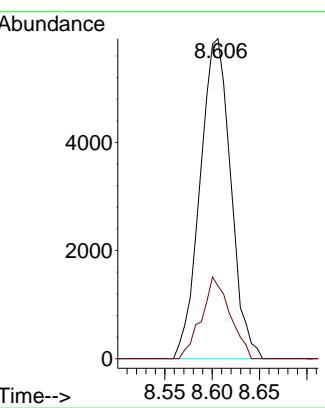
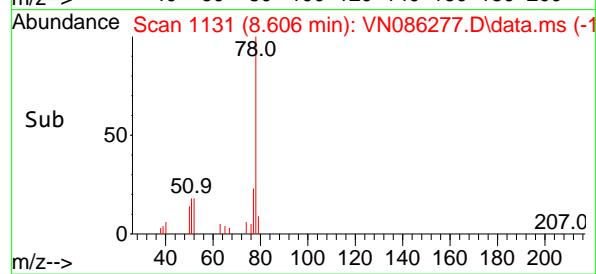
Instrument : MSVOA_N
ClientSampleId : VSTDICC001



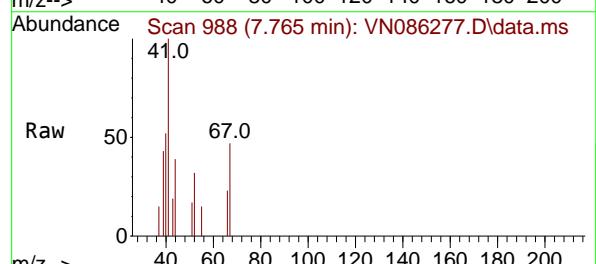
Tgt Ion: 78 Resp: 13340
Ion Ratio Lower Upper
78 100
77 22.8 19.4 29.2

Manual Integrations APPROVED

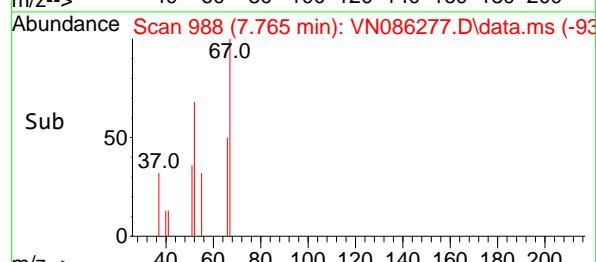
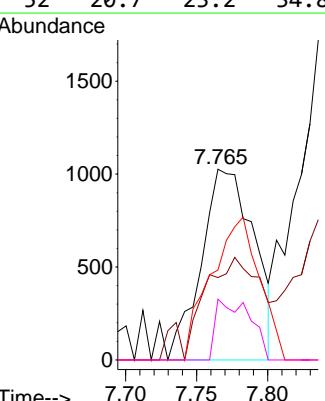
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

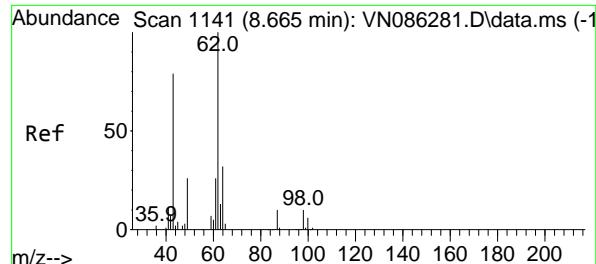


#41
Methacrylonitrile
Concen: 1.158 ug/l
RT: 7.765 min Scan# 988
Delta R.T. -0.006 min
Lab File: VN086277.D
Acq: 15 Apr 2025 11:29



Tgt Ion: 41 Resp: 2651
Ion Ratio Lower Upper
41 100
39 55.5 43.0 64.4
67 68.9 58.8 88.2
52 20.7 23.2 34.8#





#42

1,2-Dichloroethane

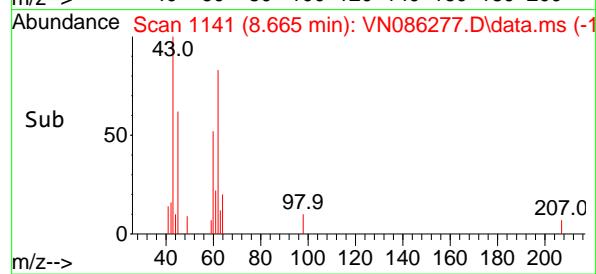
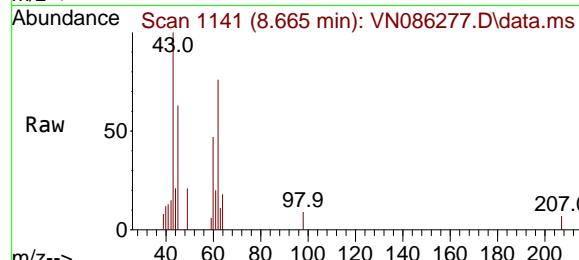
Concen: 1.111 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. -0.000 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

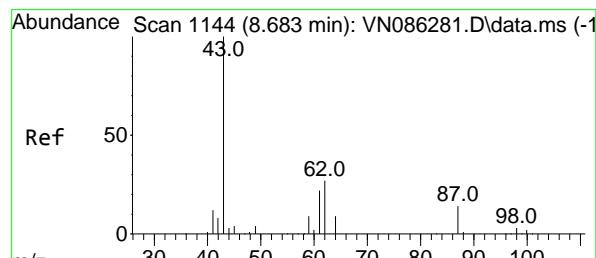
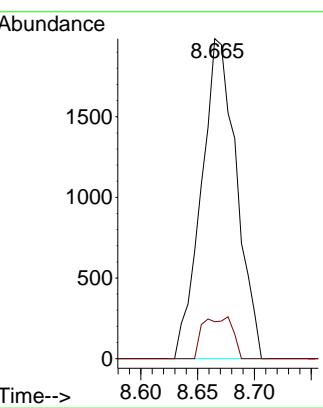
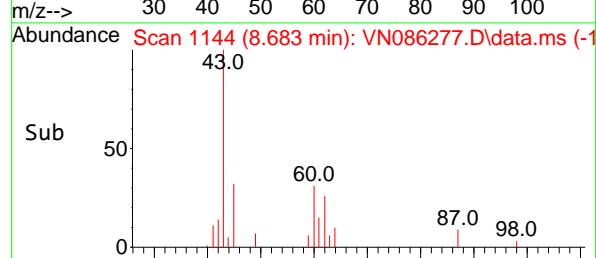
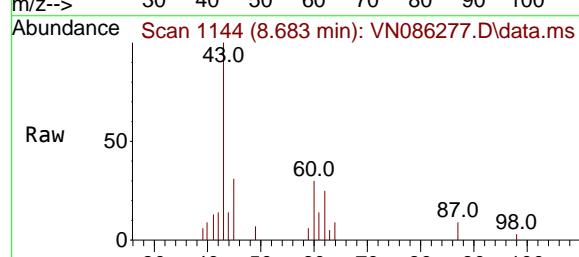
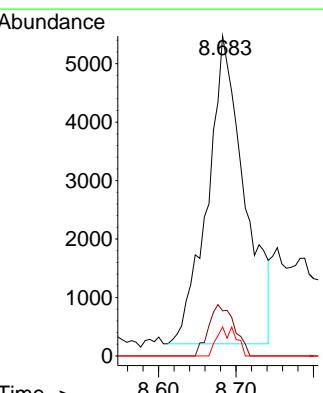


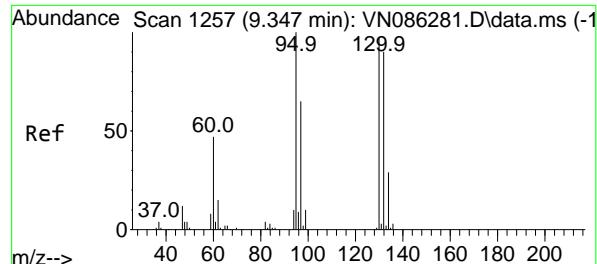
Tgt Ion: 62 Resp: 4253

Ion Ratio Lower Upper

62 100

98 11.0 0.0 19.2

**Manual Integrations
APPROVED**
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025#43
Isopropyl Acetate
Concen: 0.619 ug/l
RT: 8.683 min Scan# 1144
Delta R.T. -0.000 min
Lab File: VN086277.D
Acq: 15 Apr 2025 11:29Tgt Ion: 43 Resp: 17444
Ion Ratio Lower Upper
43 100
61 11.6 20.5 30.7#
87 4.9 10.5 15.7#



#44

Trichloroethene

Concen: 1.108 ug/l

RT: 9.353 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN086277.D

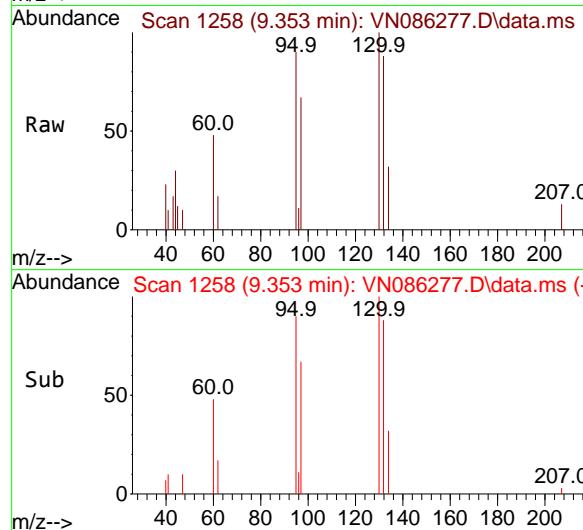
Acq: 15 Apr 2025 11:29

Instrument:

MSVOA_N

ClientSampleId :

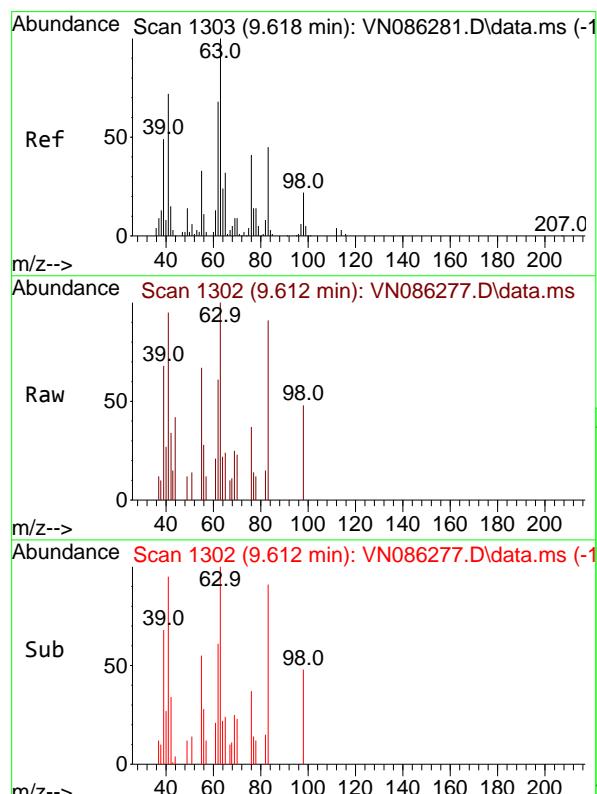
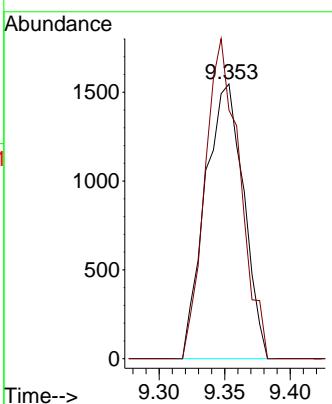
VSTDICC001



Tgt Ion:130 Resp: 3151
Ion Ratio Lower Upper
130 100
95 90.4 0.0 207.2

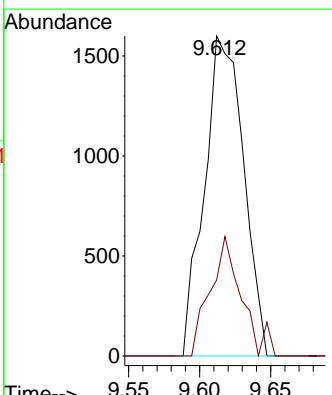
Manual Integrations APPROVED

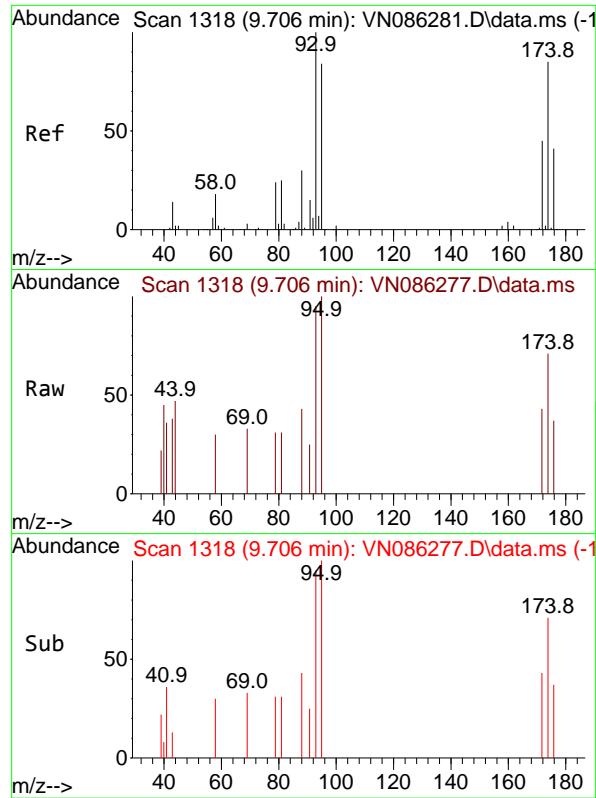
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#45
1,2-Dichloropropane
Concen: 1.041 ug/l
RT: 9.612 min Scan# 1302
Delta R.T. -0.006 min
Lab File: VN086277.D
Acq: 15 Apr 2025 11:29

Tgt Ion: 63 Resp: 3063
Ion Ratio Lower Upper
63 100
65 23.8 25.4 38.2#





#46

Dibromomethane

Concen: 1.009 ug/l

RT: 9.706 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

Instrument:

MSVOA_N

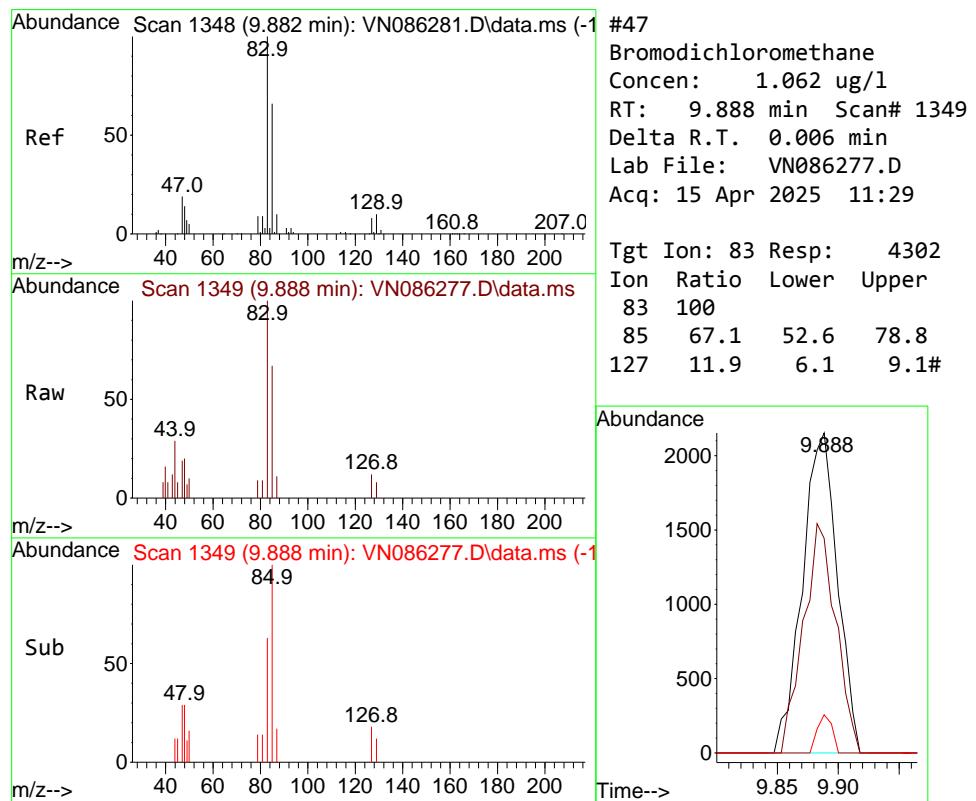
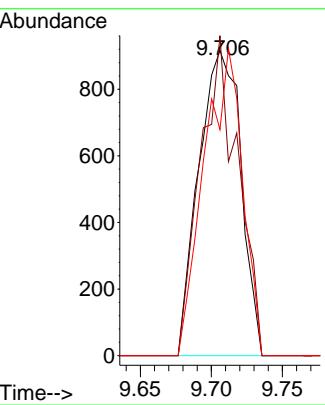
ClientSampleId :

VSTDICC001

| Tgt | Ion | Resp: | 189: |
|-----|-------|-------|-------|
| Ion | Ratio | Lower | Upper |
| 93 | 100 | | |
| 95 | 92.9 | 66.2 | 99.4 |
| 174 | 91.8 | 67.8 | 101.6 |

Manual Integrations APPROVED

Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#47

Bromodichloromethane

Concen: 1.062 ug/l

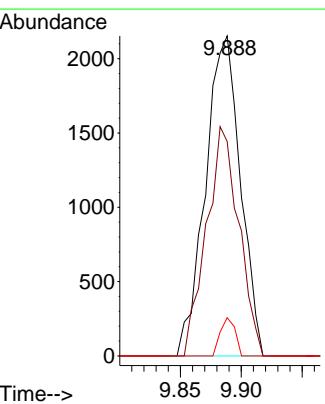
RT: 9.888 min Scan# 1349

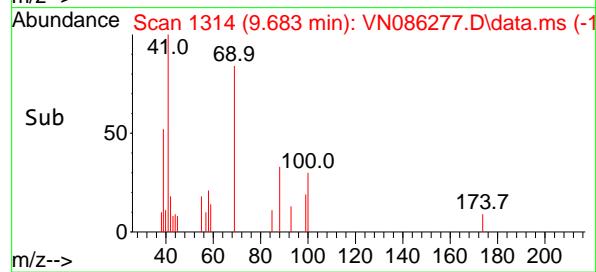
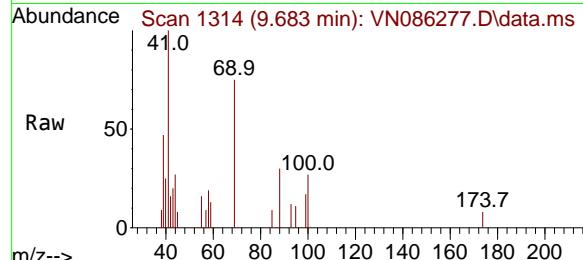
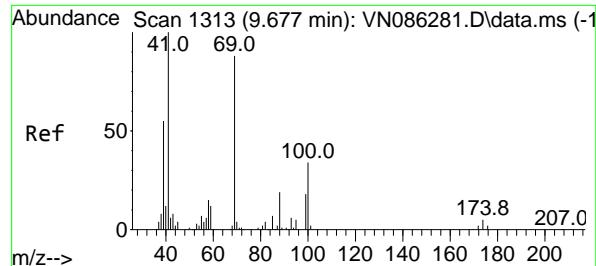
Delta R.T. 0.006 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

| Tgt | Ion | Resp: | 4302 |
|-----|-------|-------|-------|
| Ion | Ratio | Lower | Upper |
| 83 | 100 | | |
| 85 | 67.1 | 52.6 | 78.8 |
| 127 | 11.9 | 6.1 | 9.1 |





#48

Methyl methacrylate

Concen: 1.206 ug/l

RT: 9.683 min Scan# 1314

Delta R.T. 0.006 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

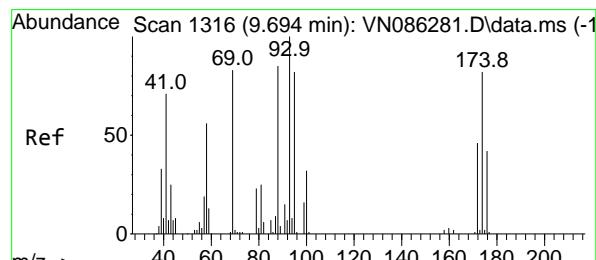
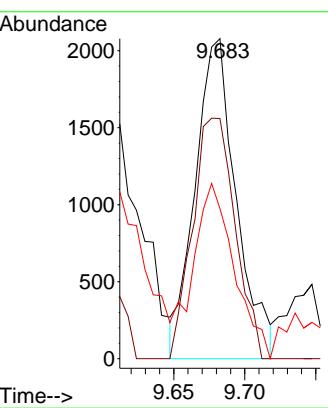
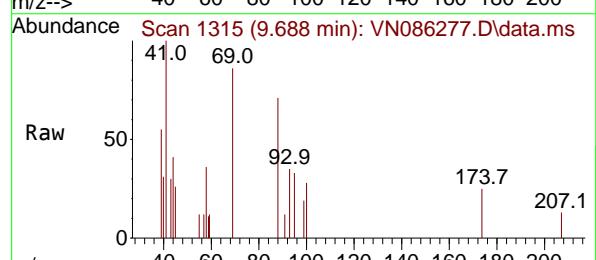
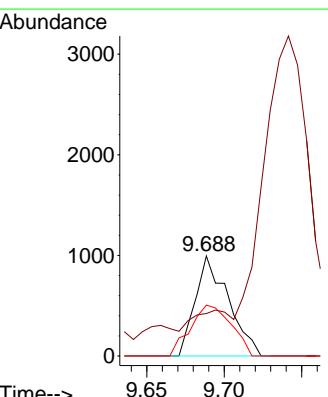
Instrument:

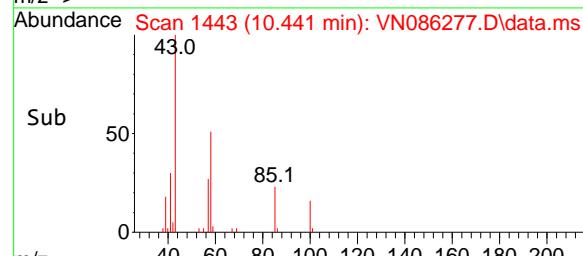
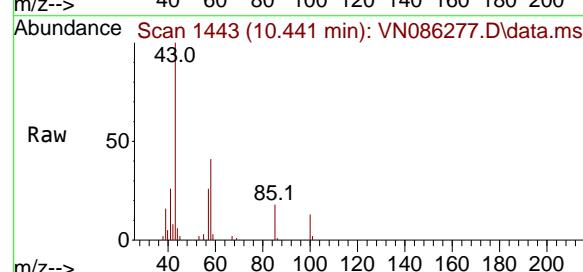
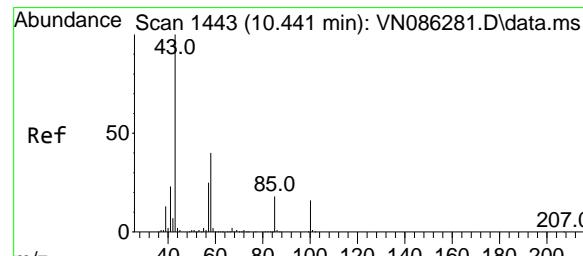
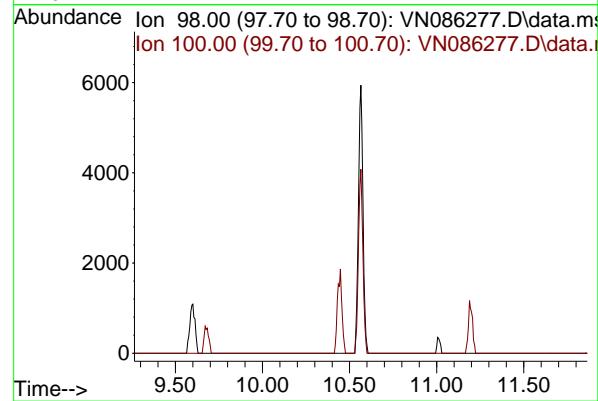
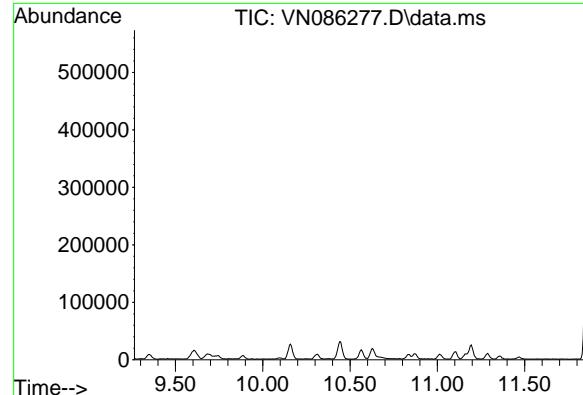
MSVOA_N

ClientSampleId :

VSTDICC001

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025

 #49
 1,4-Dioxane
 Concen: 25.032 ug/l
 RT: 9.688 min Scan# 1315
 Delta R.T. -0.006 min
 Lab File: VN086277.D
 Acq: 15 Apr 2025 11:29

 Tgt Ion: 88 Resp: 1477
 Ion Ratio Lower Upper
 88 100
 43 0.0 23.8 35.8#
 58 62.7 57.4 86.2




#50
Toluene-d8
Concen: 0.000 ug/l
Expected RT: 10.56 min

Lab File: VN086277.D
Acq: 15 Apr 2025 11:29

Tgt Ion: 98
Sig Exp Ratio
98 100
100 65.6

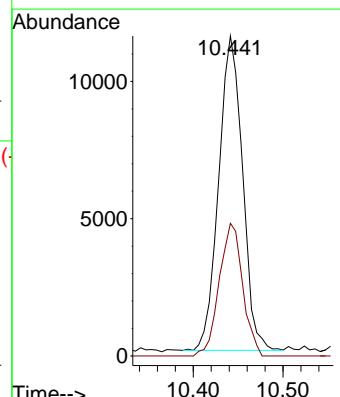
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

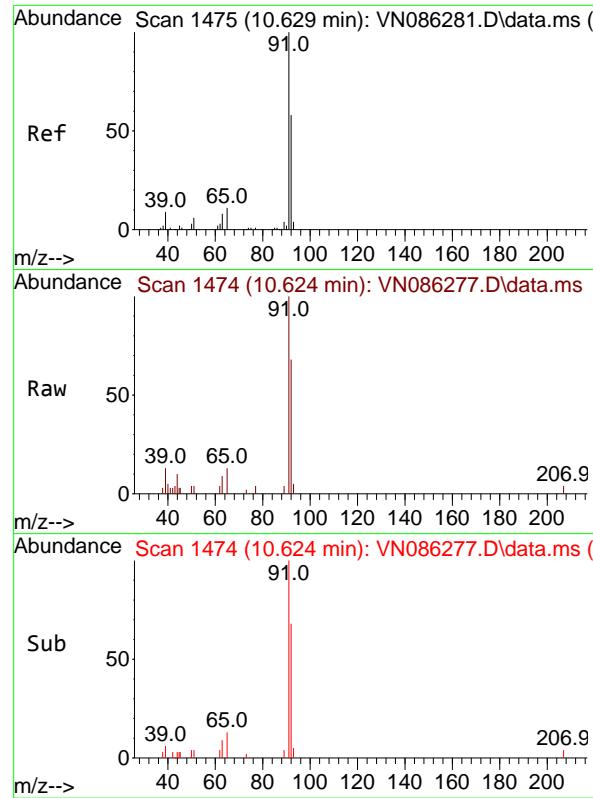
Manual Integrations APPROVED

Reviewed By :John Carbone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

#51
4-Methyl-2-Pentanone
Concen: 5.227 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN086277.D
Acq: 15 Apr 2025 11:29

Tgt Ion: 43 Resp: 21143
Ion Ratio Lower Upper
43 100
58 41.3 32.2 48.4



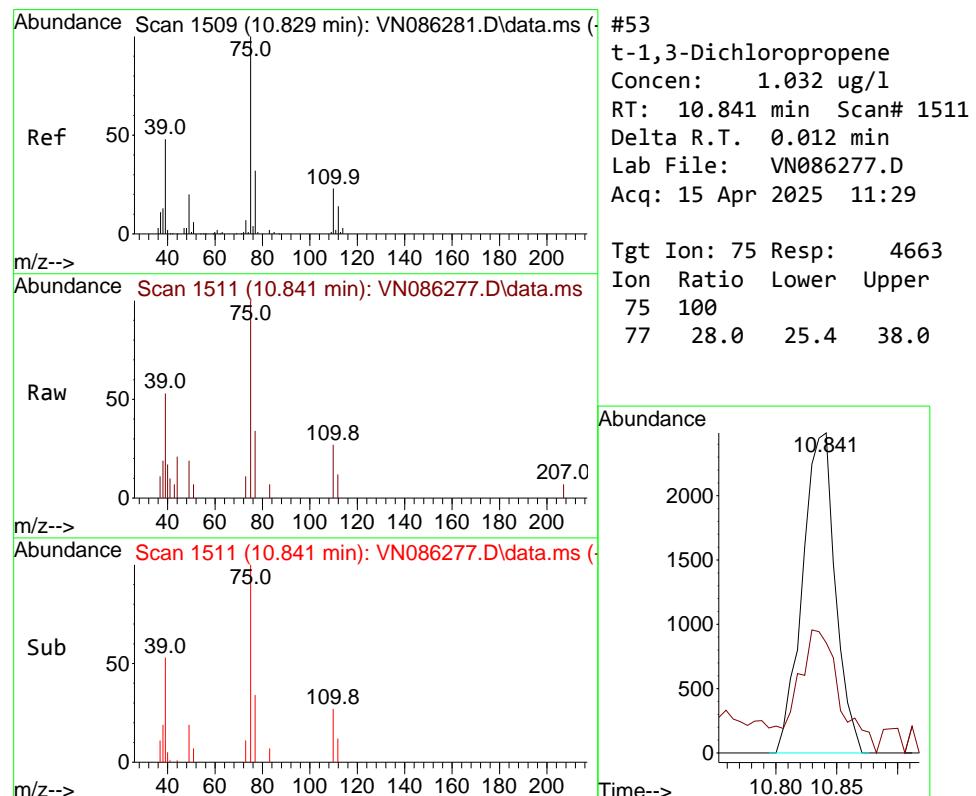
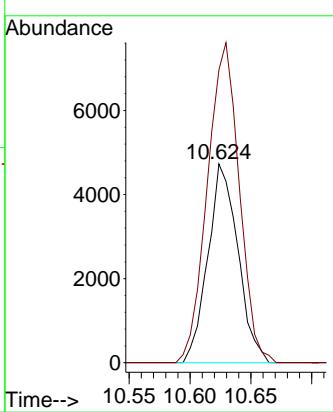


#52
Toluene
Concen: 1.083 ug/l
RT: 10.624 min Scan# 1474
Delta R.T. -0.006 min
Lab File: VN086277.D
Acq: 15 Apr 2025 11:29

Instrument : MSVOA_N
ClientSampleId : VSTDICC001

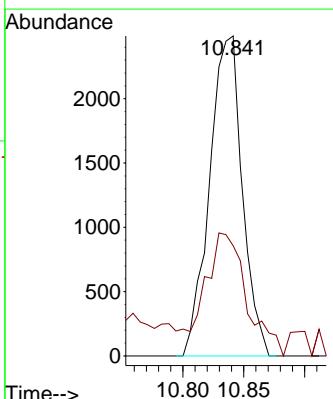
Manual Integrations APPROVED

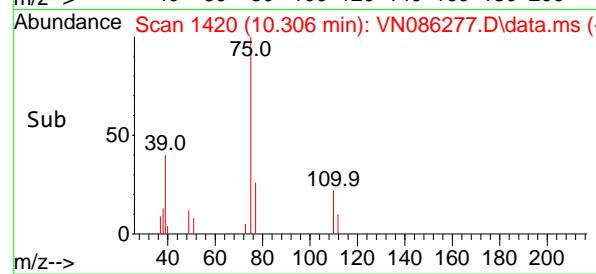
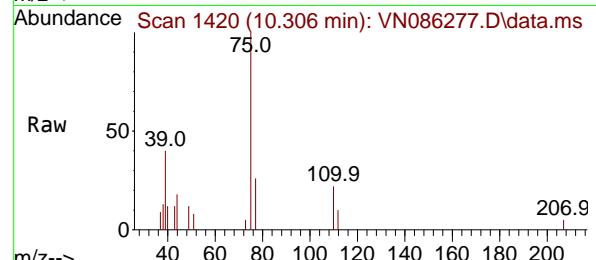
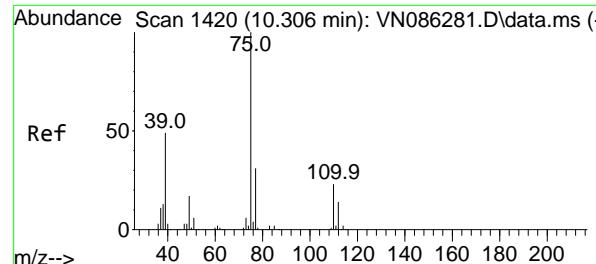
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#53
t-1,3-Dichloropropene
Concen: 1.032 ug/l
RT: 10.841 min Scan# 1511
Delta R.T. 0.012 min
Lab File: VN086277.D
Acq: 15 Apr 2025 11:29

Tgt Ion: 75 Resp: 4663
Ion Ratio Lower Upper
75 100
77 28.0 25.4 38.0



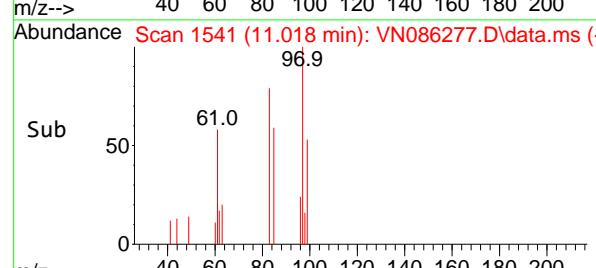
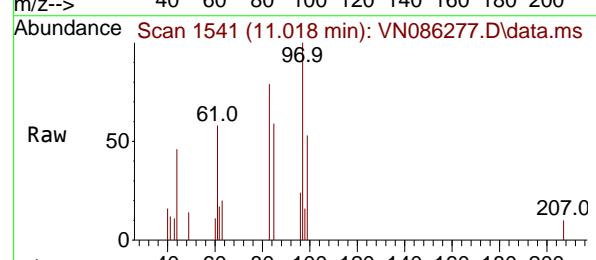
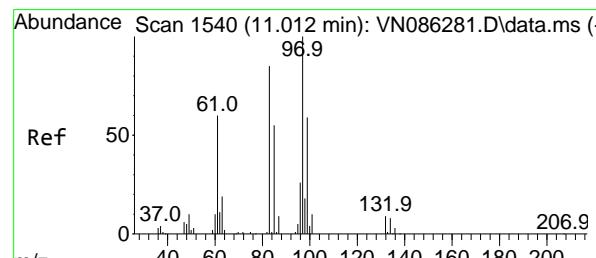
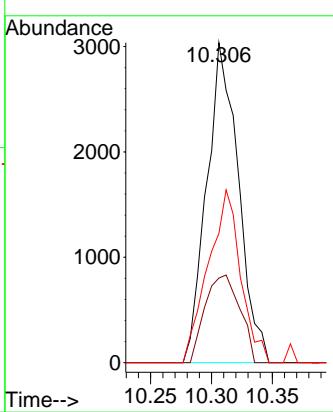


#54
cis-1,3-Dichloropropene
Concen: 1.107 ug/l
RT: 10.306 min Scan# 1420
Delta R.T. 0.000 min
Lab File: VN086277.D
Acq: 15 Apr 2025 11:29

Instrument : MSVOA_N
ClientSampleId : VSTDICC001

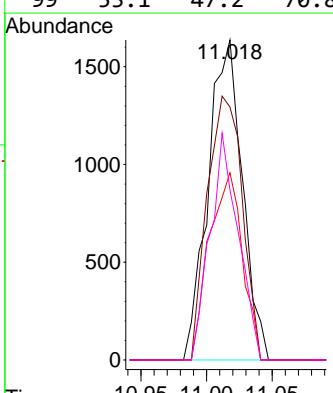
Manual Integrations APPROVED

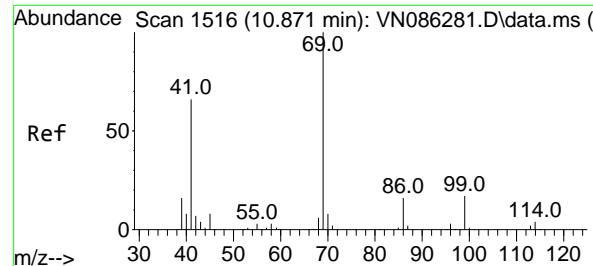
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



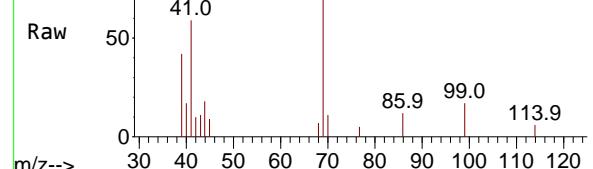
#55
1,1,2-Trichloroethane
Concen: 1.099 ug/l
RT: 11.018 min Scan# 1541
Delta R.T. 0.006 min
Lab File: VN086277.D
Acq: 15 Apr 2025 11:29

Tgt Ion: 97 Resp: 2967
Ion Ratio Lower Upper
97 100
83 79.0 68.4 102.6
85 58.5 43.9 65.9
99 53.1 47.2 70.8

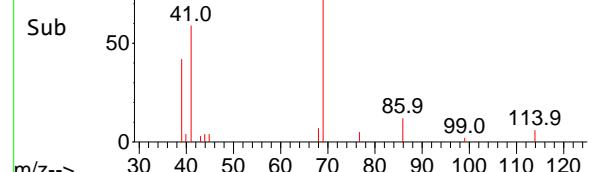




Abundance Scan 1516 (10.871 min): VN086277.D\data.ms



Abundance Scan 1516 (10.871 min): VN086277.D\data.ms (-)



#56

Ethyl methacrylate

Concen: 1.090 ug/l

RT: 10.871 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion: 69 Resp: 5409

Ion Ratio Lower Upper

69 100

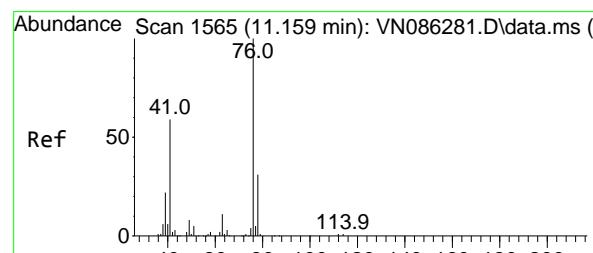
41 72.0 51.7 77.5

39 38.9 26.3 39.5

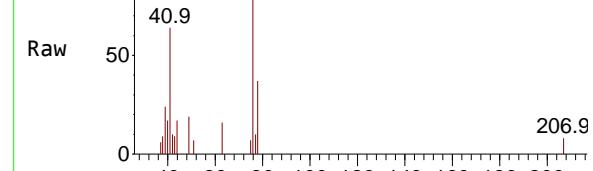
Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/16/2025

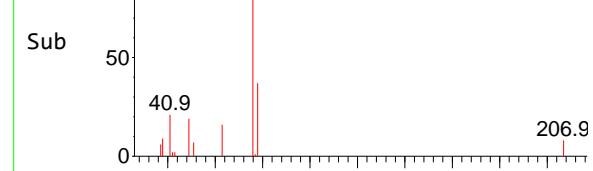
Supervised By :Semsettin Yesilyurt 04/16/2025



Abundance Scan 1565 (11.159 min): VN086277.D\data.ms



Abundance Scan 1565 (11.159 min): VN086277.D\data.ms (-)



#57

1,3-Dichloropropane

Concen: 1.063 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. 0.000 min

Lab File: VN086277.D

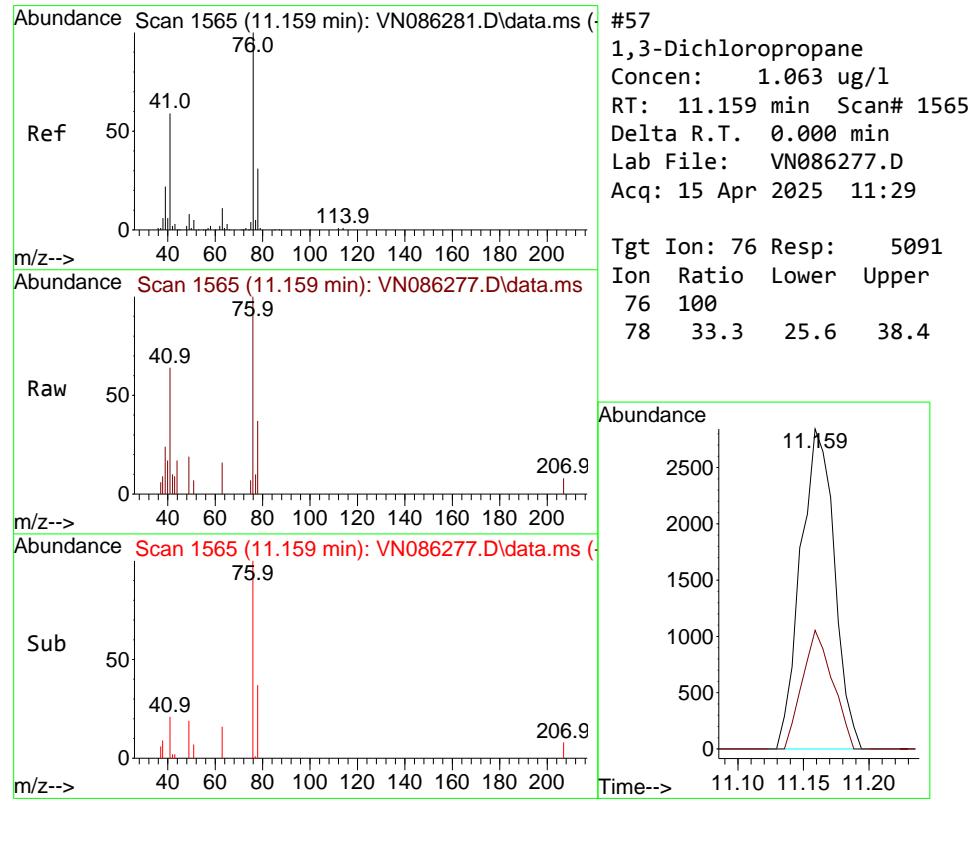
Acq: 15 Apr 2025 11:29

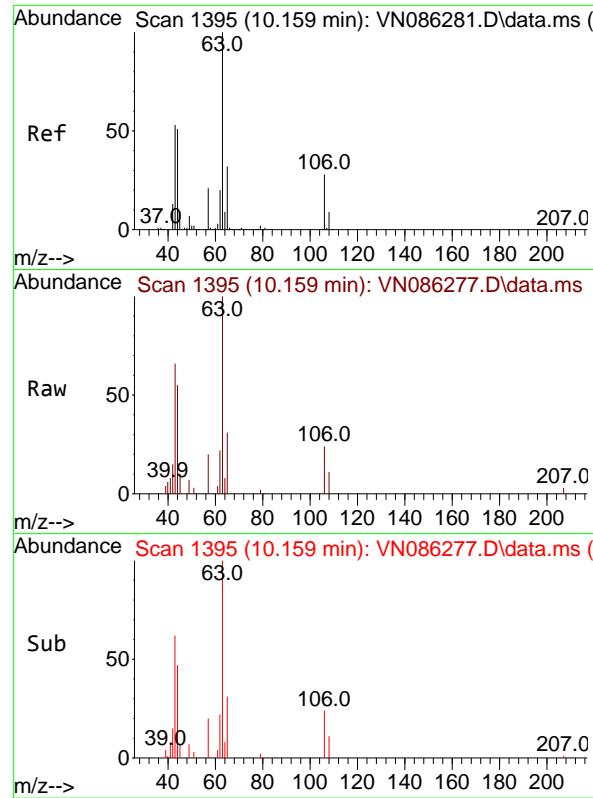
Tgt Ion: 76 Resp: 5091

Ion Ratio Lower Upper

76 100

78 33.3 25.6 38.4





#58

2-Chloroethyl Vinyl ether

Concen: 5.048 ug/l

RT: 10.159 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

Instrument:

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion: 63 Resp: 11889

Ion Ratio Lower Upper

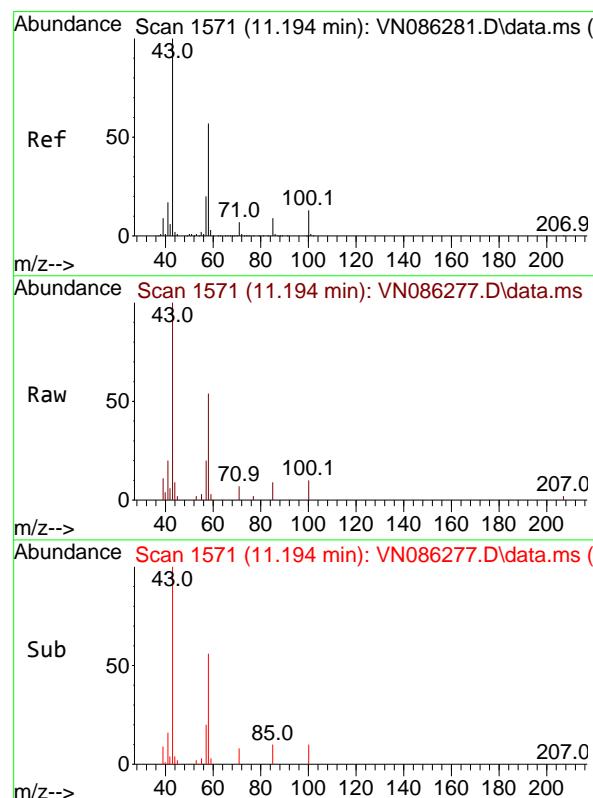
63 100

106 26.0 22.2 33.2

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#59

2-Hexanone

Concen: 5.315 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. 0.000 min

Lab File: VN086277.D

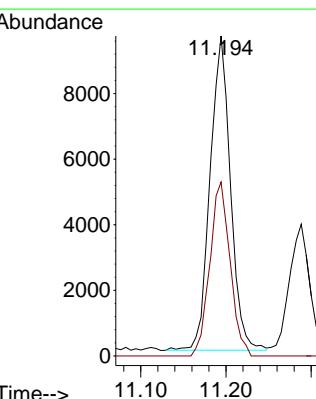
Acq: 15 Apr 2025 11:29

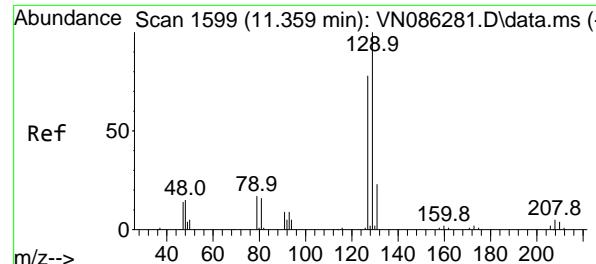
Tgt Ion: 43 Resp: 15945

Ion Ratio Lower Upper

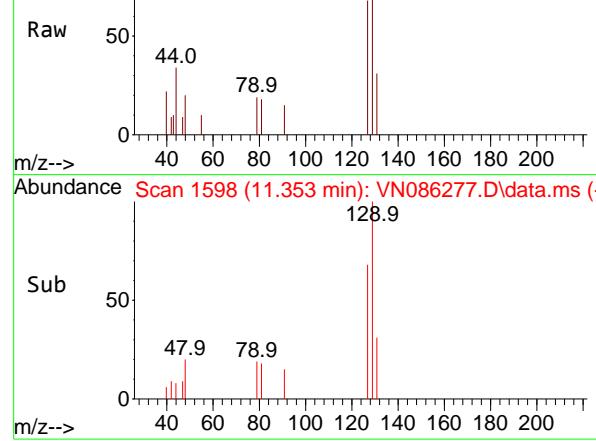
43 100

58 54.9 28.3 85.0

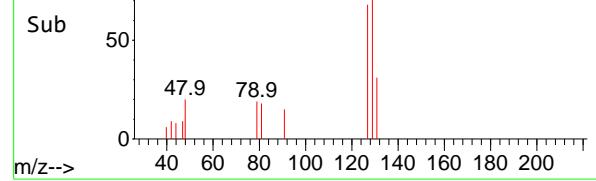




Abundance Scan 1598 (11.353 min): VN086277.D\data.ms (-)



Abundance Scan 1598 (11.353 min): VN086277.D\data.ms (-)



#60

Dibromochloromethane

Concen: 1.031 ug/l

RT: 11.353 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

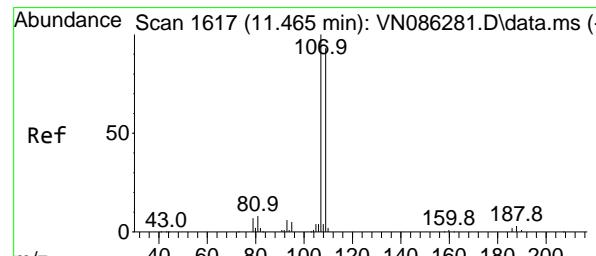
Instrument:

MSVOA_N

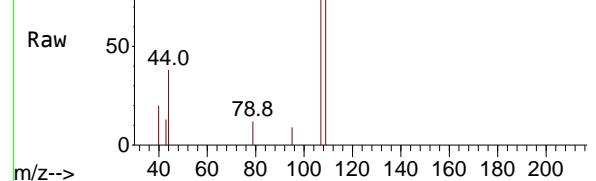
ClientSampleId :

VSTDICC001

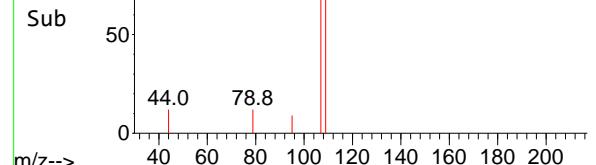
**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


Abundance Scan 1617 (11.465 min): VN086277.D\data.ms (-)



Abundance Scan 1617 (11.465 min): VN086277.D\data.ms (-)



#61

1,2-Dibromoethane

Concen: 1.068 ug/l

RT: 11.465 min Scan# 1617

Delta R.T. 0.000 min

Lab File: VN086277.D

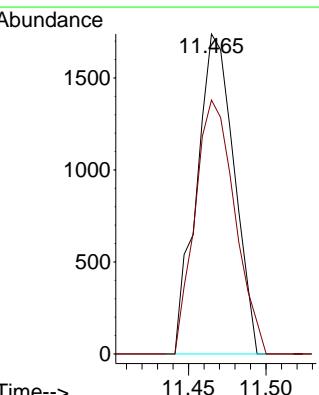
Acq: 15 Apr 2025 11:29

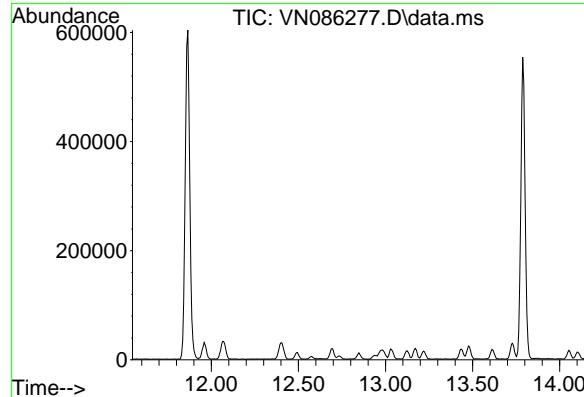
Tgt Ion:107 Resp: 2908

Ion Ratio Lower Upper

107 100

109 84.7 75.4 113.0





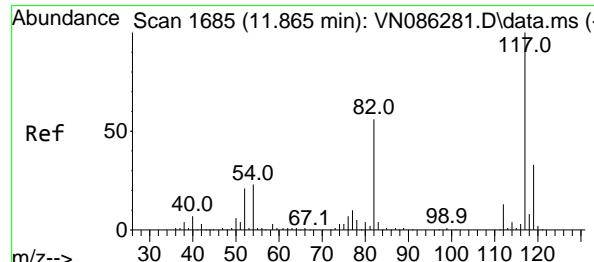
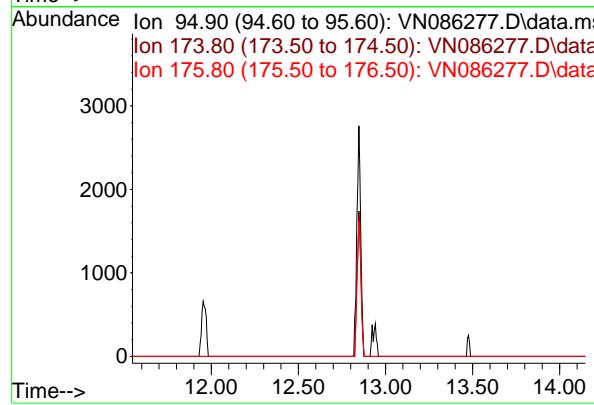
#62
4-Bromofluorobenzene
Concen: 0.000 ug/l
Expected RT: 12.85 min

Lab File: VN086277.D
Acq: 15 Apr 2025 11:29

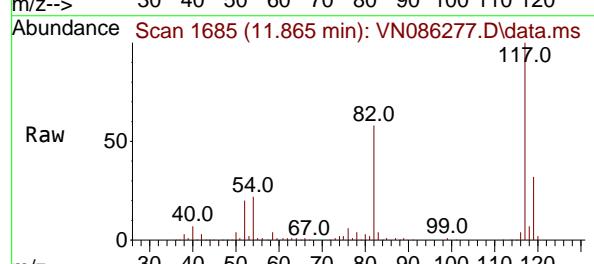
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

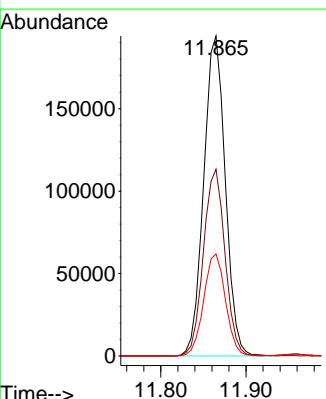
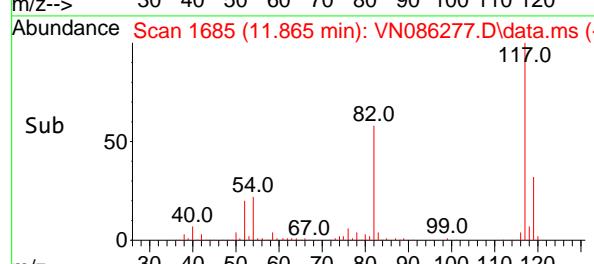
Reviewed By :John Carbone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

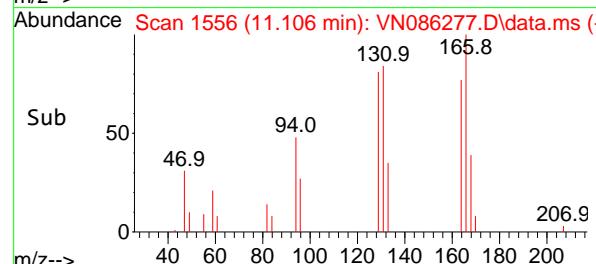
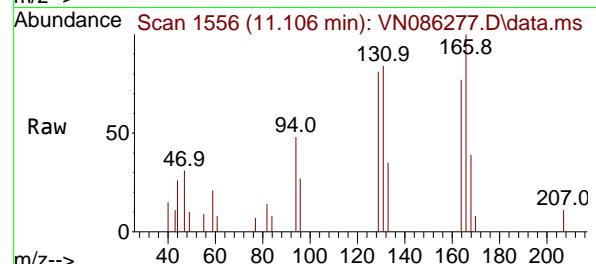
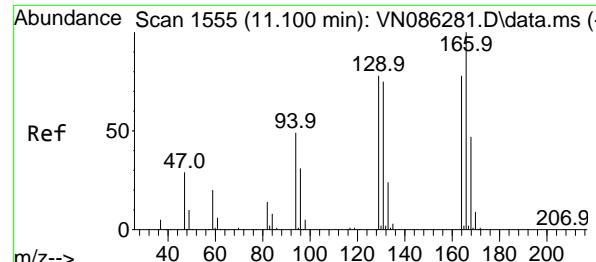


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN086277.D
Acq: 15 Apr 2025 11:29



Tgt Ion:117 Resp: 341637
Ion Ratio Lower Upper
117 100
82 58.3 44.7 67.1
119 31.9 26.4 39.6





#64

Tetrachloroethene

Concen: 1.090 ug/l

RT: 11.106 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

Instrument :

MSVOA_N

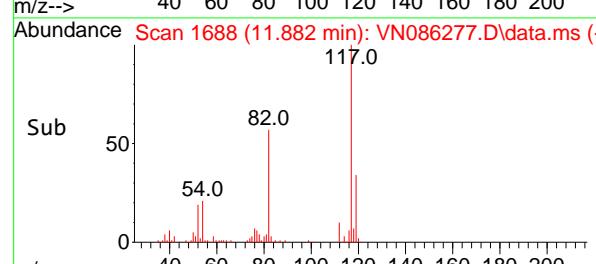
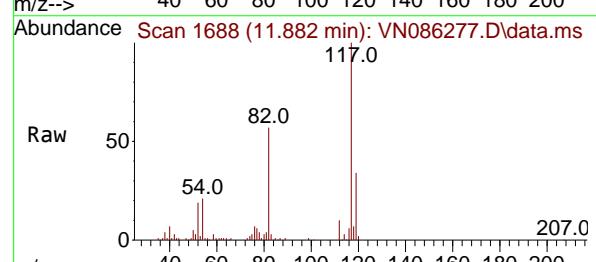
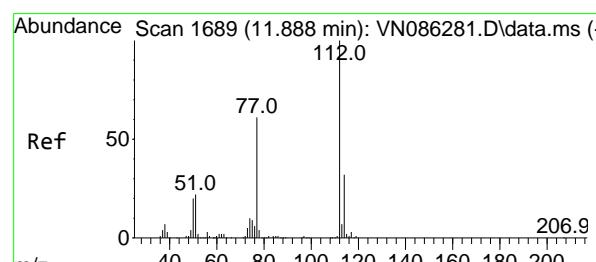
ClientSampleId :

VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#65

Chlorobenzene

Concen: 1.107 ug/l

RT: 11.882 min Scan# 1688

Delta R.T. -0.006 min

Lab File: VN086277.D

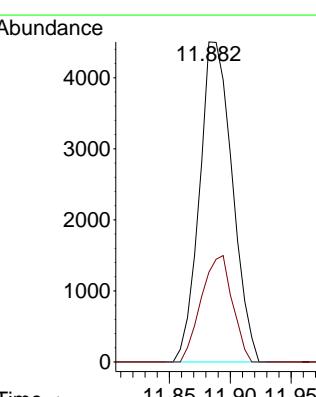
Acq: 15 Apr 2025 11:29

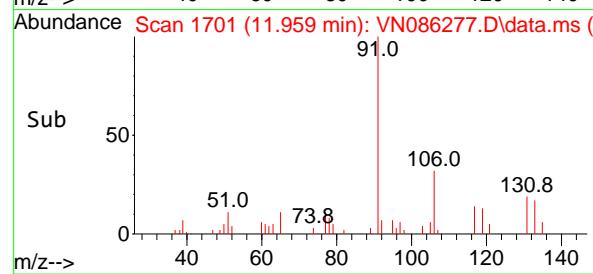
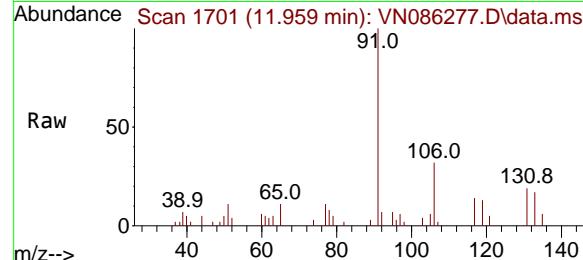
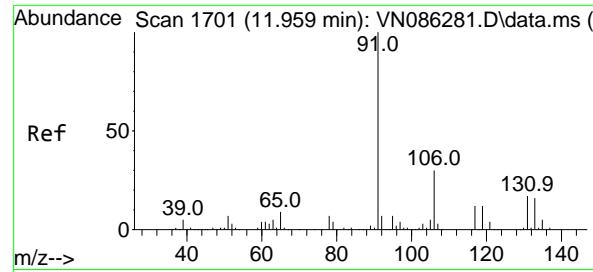
Tgt Ion:112 Resp: 8440

Ion Ratio Lower Upper

112 100

114 28.1 25.4 38.0





#66

1,1,1,2-Tetrachloroethane

Concen: 1.087 ug/l

RT: 11.959 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

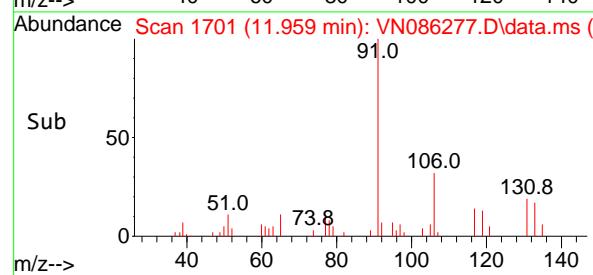
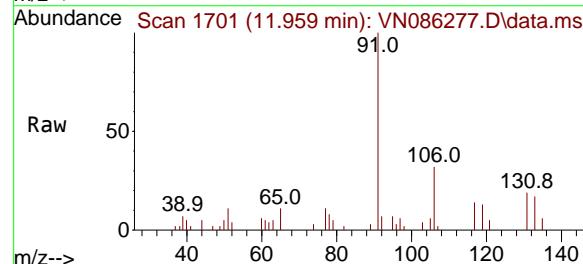
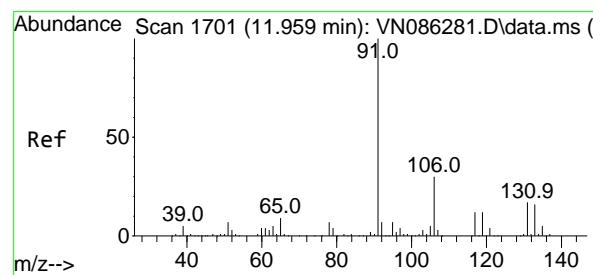
Instrument:

MSVOA_N

ClientSampleId :

VSTDICC001

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#67

Ethyl Benzene

Concen: 1.097 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

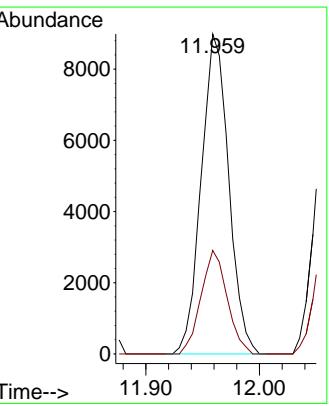
Tgt Ion: 91 Resp: 15099

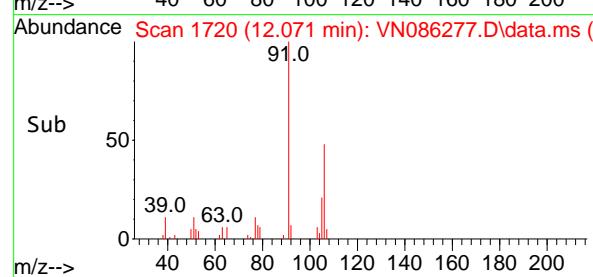
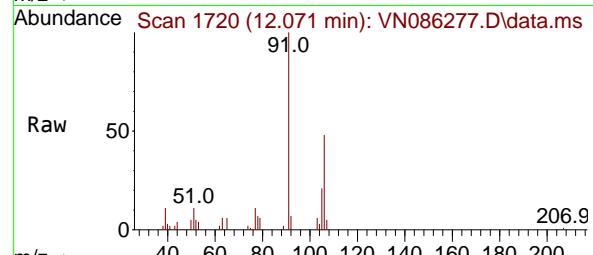
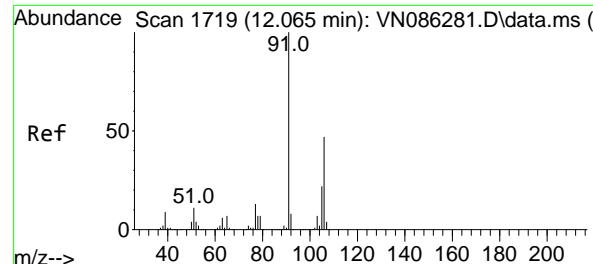
Ion Ratio Lower Upper

91 100

106 32.3 24.3 36.5

Time--> 11.90 11.95 12.00



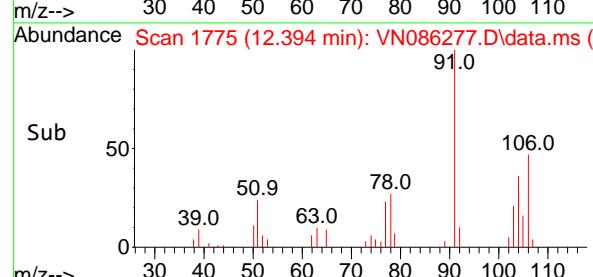
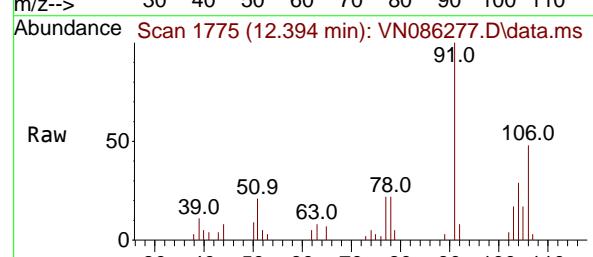
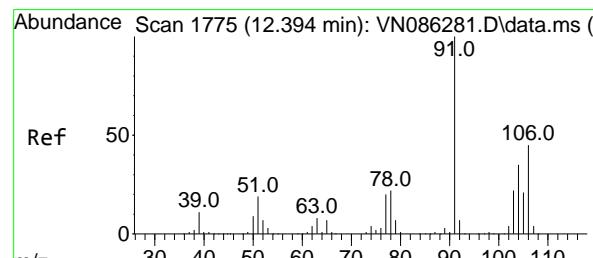
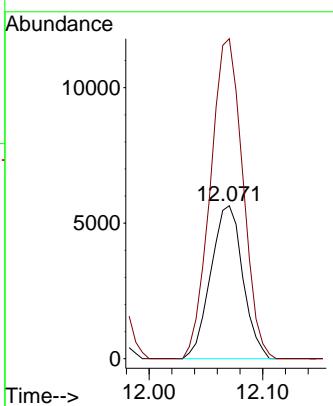


#68
m/p-Xylenes
Concen: 2.144 ug/l
RT: 12.071 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN086277.D
Acq: 15 Apr 2025 11:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

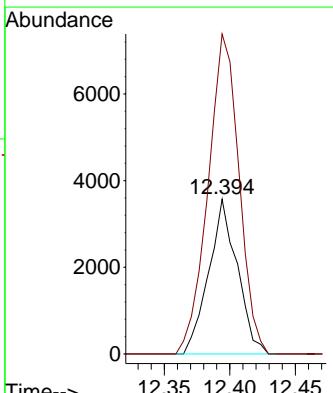
Manual Integrations
APPROVED

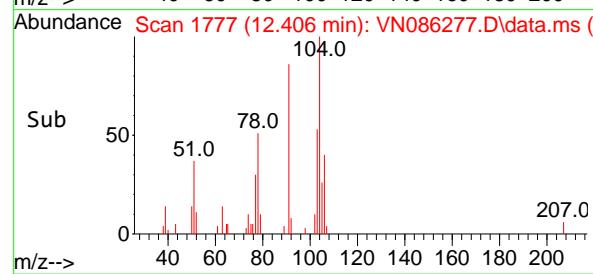
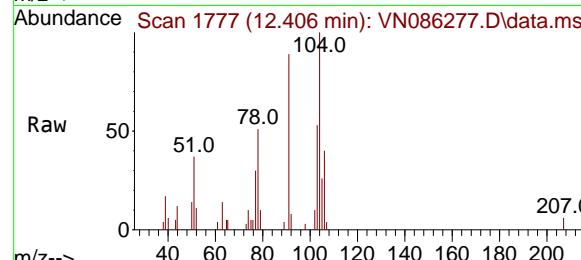
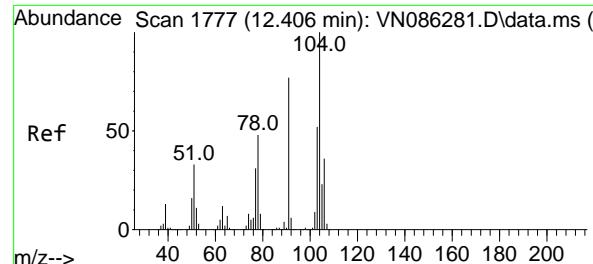
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#69
o-Xylene
Concen: 1.061 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VN086277.D
Acq: 15 Apr 2025 11:29

Tgt Ion:106 Resp: 5408
Ion Ratio Lower Upper
106 100
91 224.6 109.7 329.0





#70

Styrene

Concen: 1.051 ug/l

RT: 12.406 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

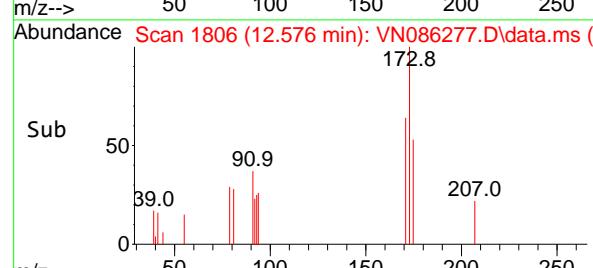
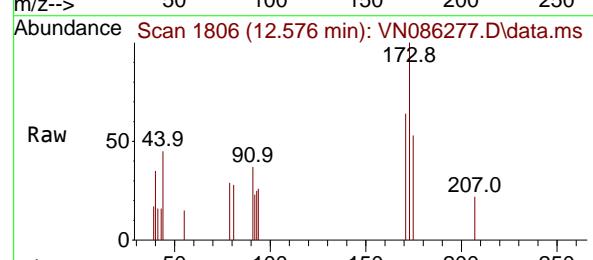
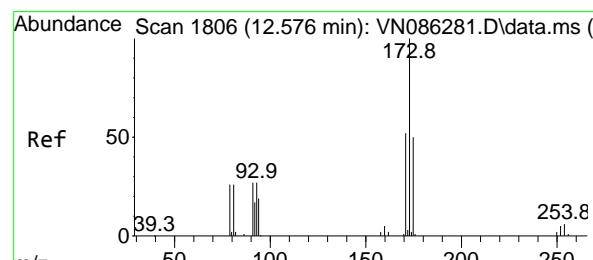
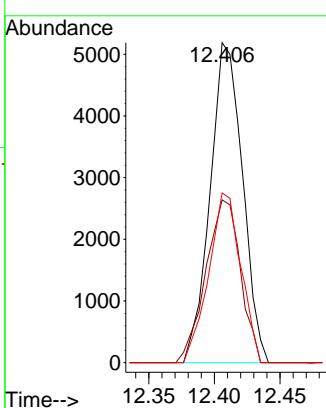
Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#71

Bromoform

Concen: 1.103 ug/l

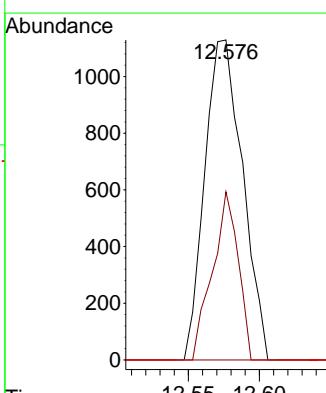
RT: 12.576 min Scan# 1806

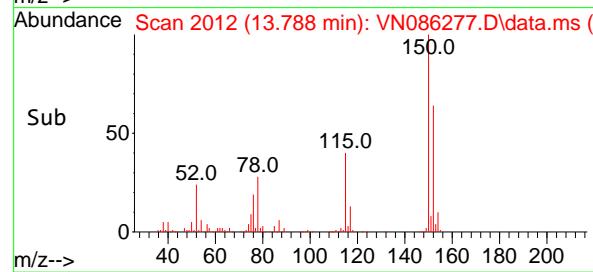
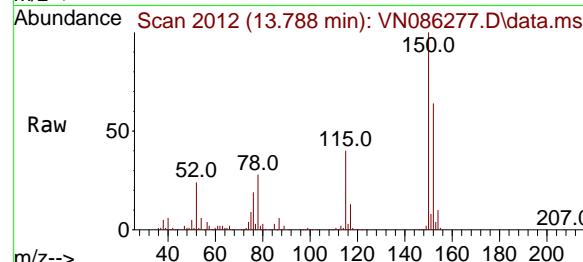
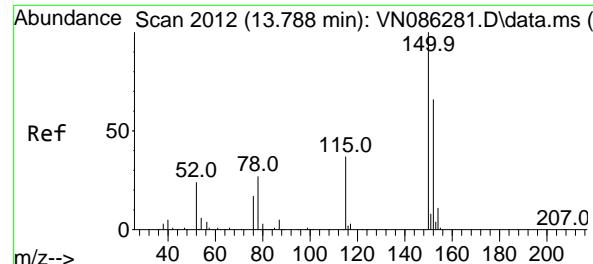
Delta R.T. 0.000 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

| Tgt | Ion:173 | Resp: | 2089 |
|-----|---------|-------|-------|
| Ion | Ratio | Lower | Upper |
| 173 | 100 | | |
| 175 | 35.7 | 24.6 | 73.6 |
| 254 | 0.0 | 0.0 | 0.0 |





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2

Delta R.T. 0.000 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

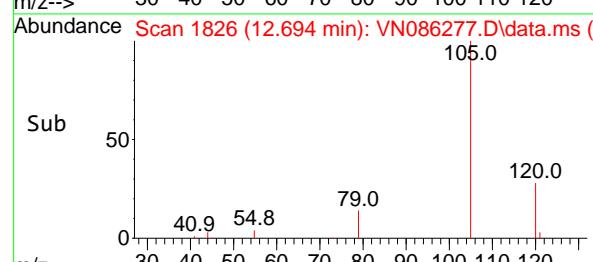
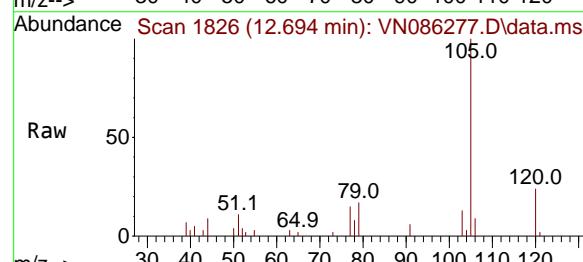
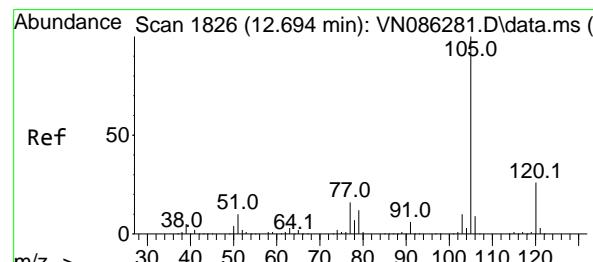
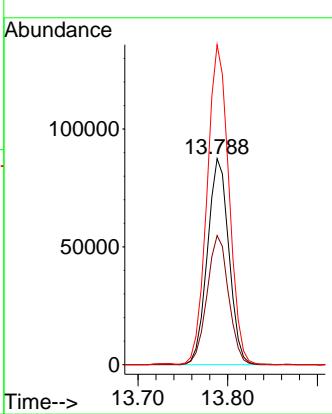
Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#73

Isopropylbenzene

Concen: 1.141 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. 0.000 min

Lab File: VN086277.D

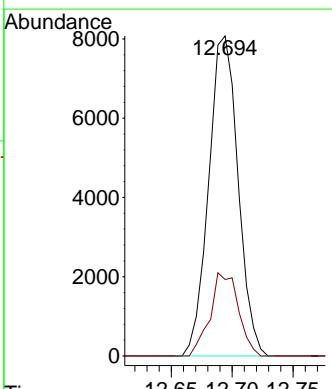
Acq: 15 Apr 2025 11:29

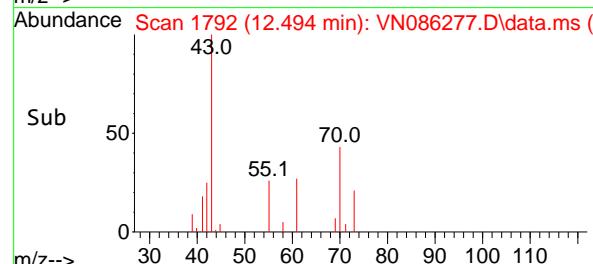
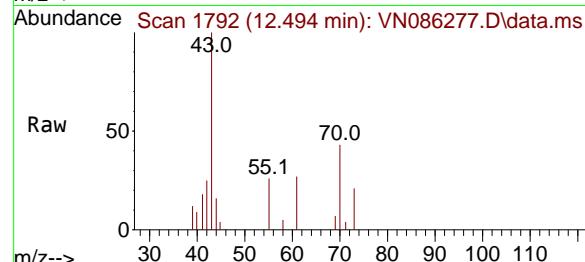
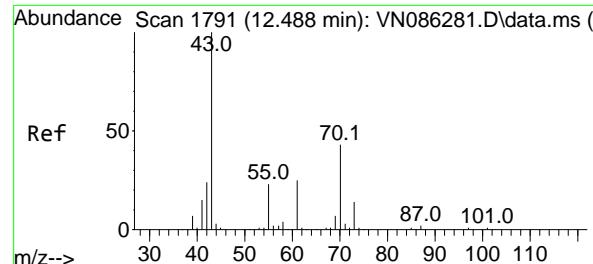
Tgt Ion:105 Resp: 13542

Ion Ratio Lower Upper

105 100

120 25.0 13.1 39.3





#74

N-amyl acetate

Concen: 1.321 ug/l

RT: 12.494 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

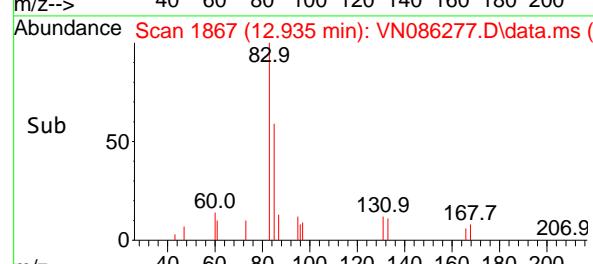
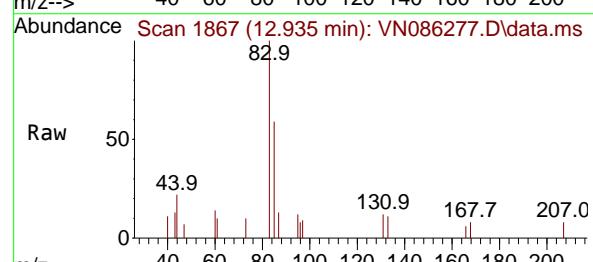
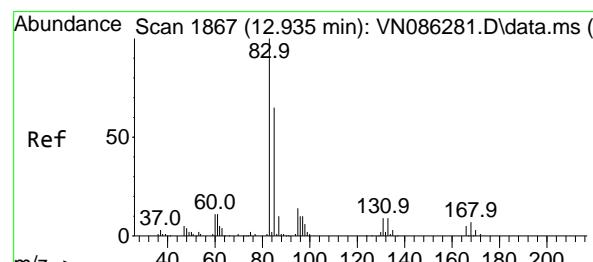
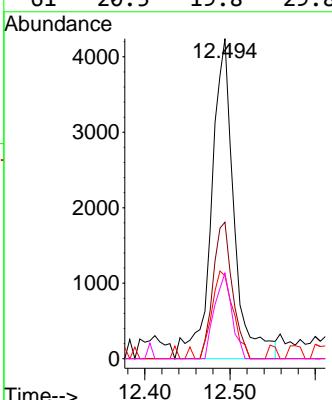
**Manual Integrations
APPROVED**

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025

Tgt Ion: 43 Resp: 7801
Ion Ratio Lower Upper

| | |
|----|------|
| 43 | 100 |
| 70 | 36.5 |
| 55 | 25.5 |
| 61 | 20.5 |
| | 19.8 |
| | 29.8 |



#75

1,1,2,2-Tetrachloroethane

Concen: 1.145 ug/l

RT: 12.935 min Scan# 1867

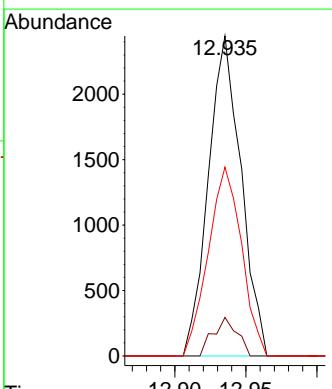
Delta R.T. 0.000 min

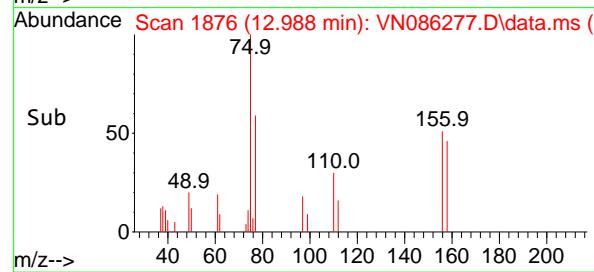
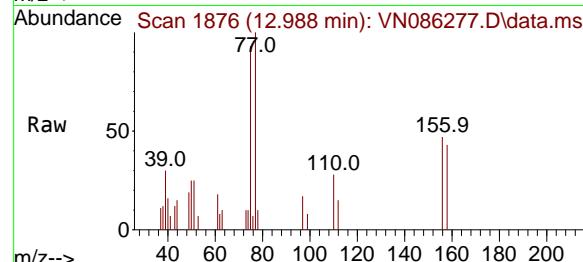
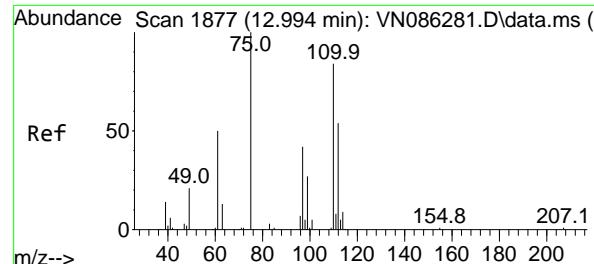
Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

Tgt Ion: 83 Resp: 3910
Ion Ratio Lower Upper

| | |
|-----|------|
| 83 | 100 |
| 131 | 8.8 |
| 85 | 60.2 |
| | 4.7 |
| | 32.7 |
| | 14.1 |
| | 98.1 |





#76

1,2,3-Trichloropropane

Concen: 1.293 ug/l m

RT: 12.988 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

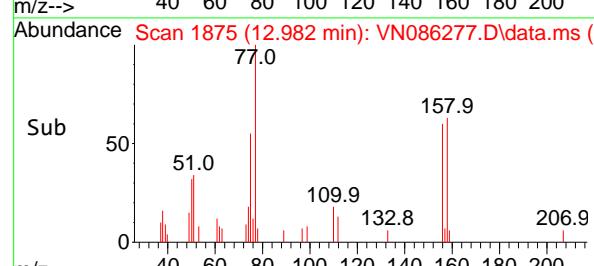
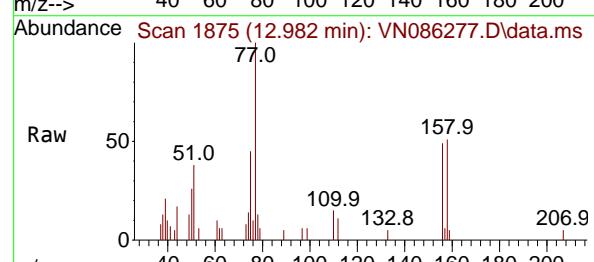
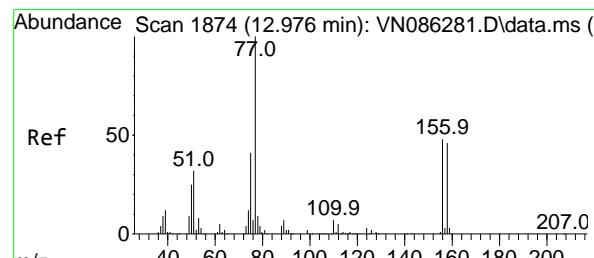
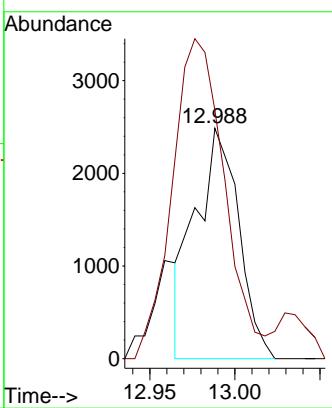
Instrument:

MSVOA_N

ClientSampleId :

VSTDICC001

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#77

Bromobenzene

Concen: 1.069 ug/l

RT: 12.982 min Scan# 1875

Delta R.T. 0.006 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

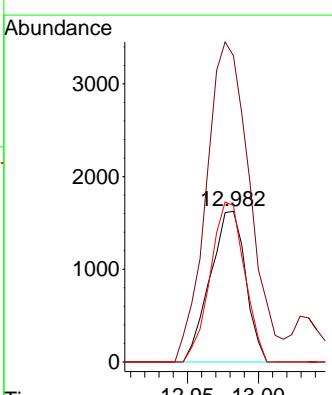
Tgt Ion:156 Resp: 2811

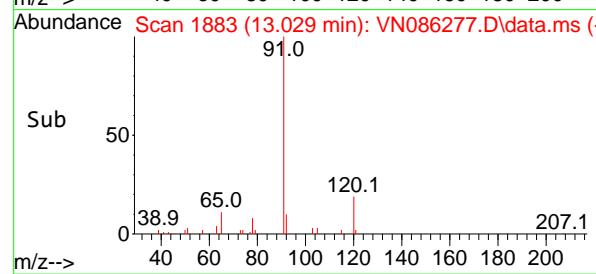
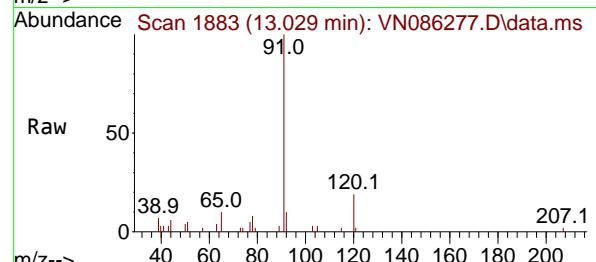
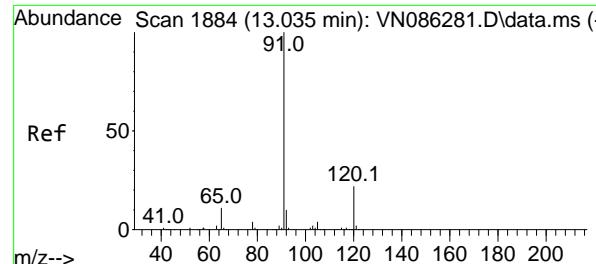
Ion Ratio Lower Upper

156 100

77 261.7 121.1 363.1

158 102.7 47.9 143.6





#78

n-propylbenzene

Concen: 1.113 ug/l

RT: 13.029 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

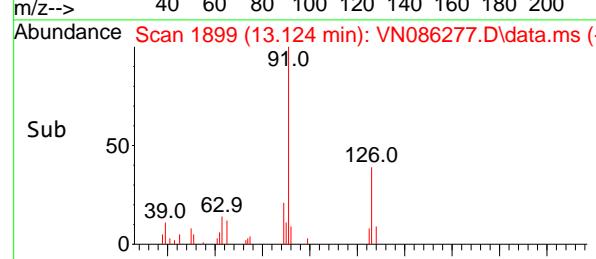
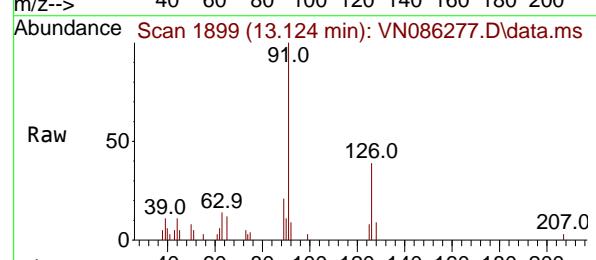
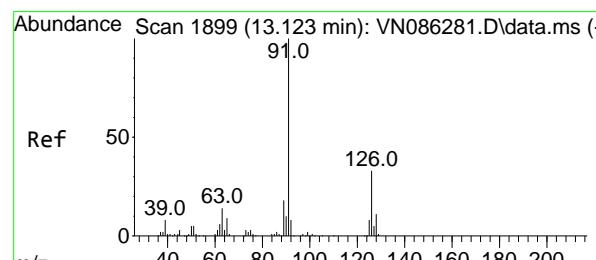
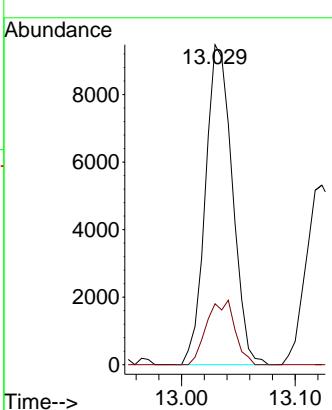
Instrument:

MSVOA_N

ClientSampleId :

VSTDICC001

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#79

2-Chlorotoluene

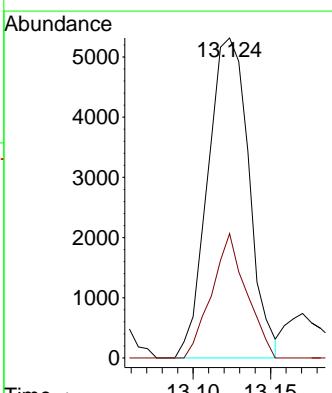
Concen: 1.120 ug/l

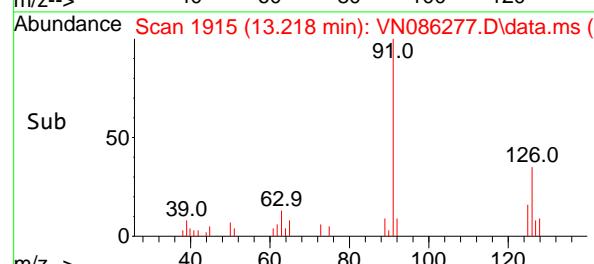
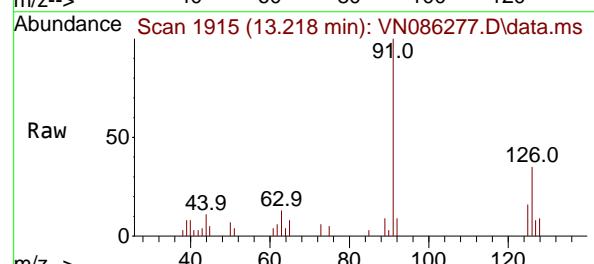
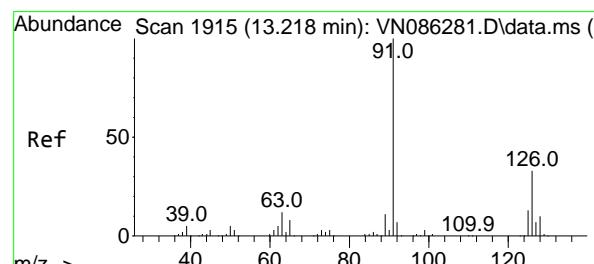
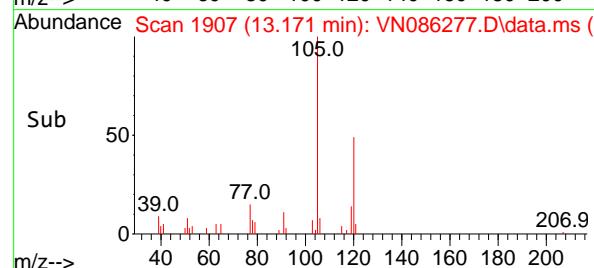
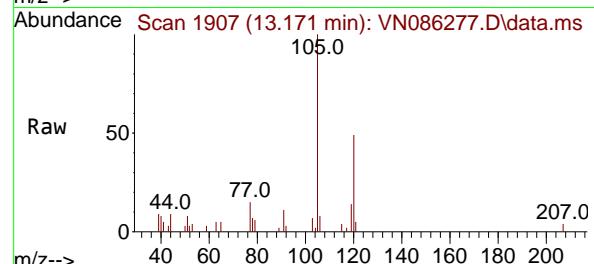
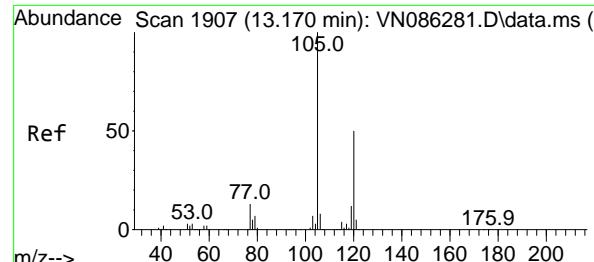
RT: 13.124 min Scan# 1899

Delta R.T. 0.000 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

 Tgt Ion: 91 Resp: 9804
 Ion Ratio Lower Upper
 91 100
 126 32.8 16.1 48.2




#80

1,3,5-Trimethylbenzene

Concen: 1.135 ug/l

RT: 13.171 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

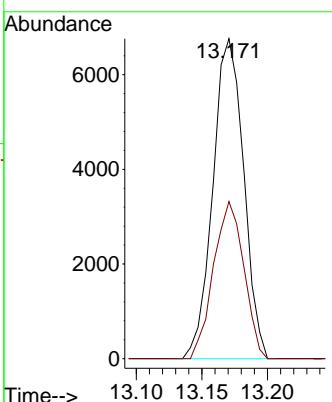
Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#82

4-Chlorotoluene

Concen: 1.103 ug/l

RT: 13.218 min Scan# 1915

Delta R.T. 0.000 min

Lab File: VN086277.D

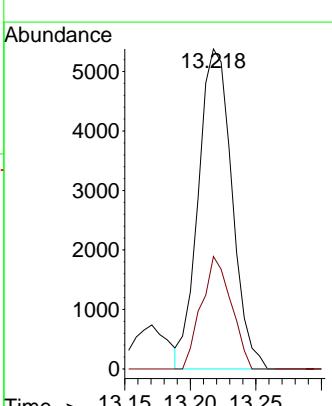
Acq: 15 Apr 2025 11:29

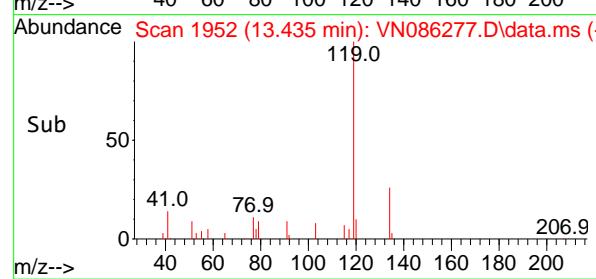
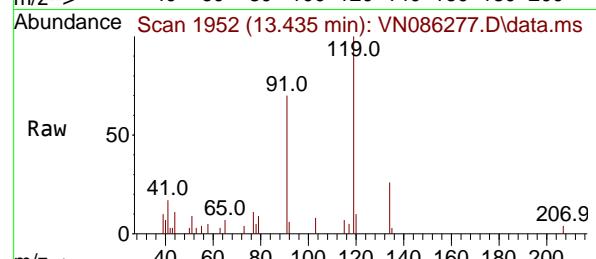
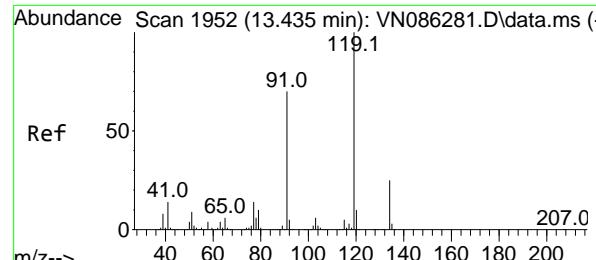
Tgt Ion: 91 Resp: 9589

Ion Ratio Lower Upper

91 100

126 31.2 16.2 48.6





#83

tert-Butylbenzene

Concen: 1.166 ug/l

RT: 13.435 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

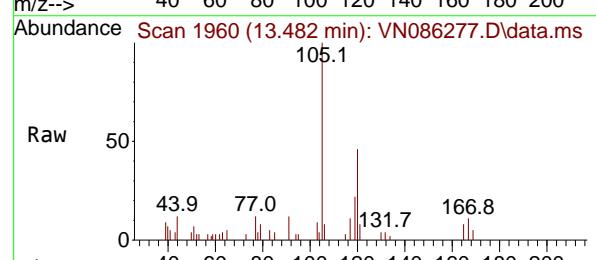
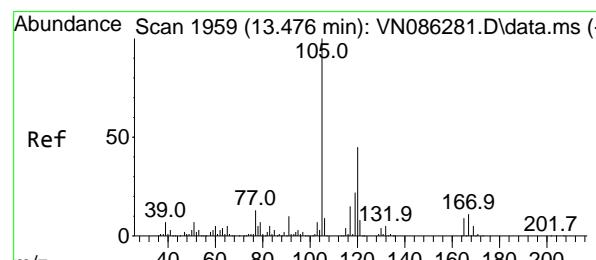
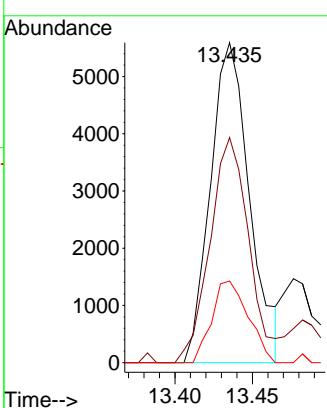
Instrument :

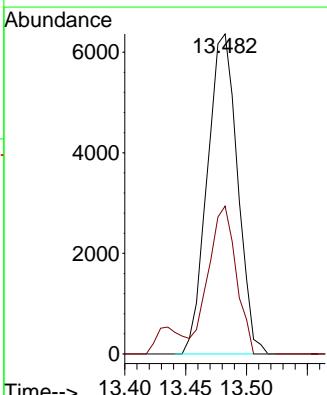
MSVOA_N

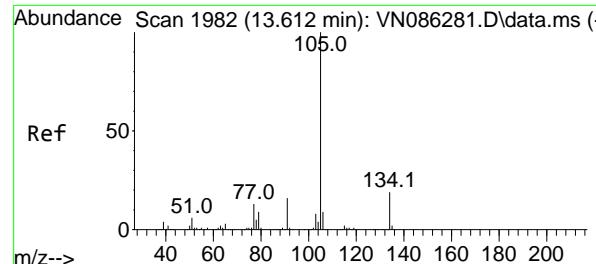
ClientSampleId :

VSTDICC001

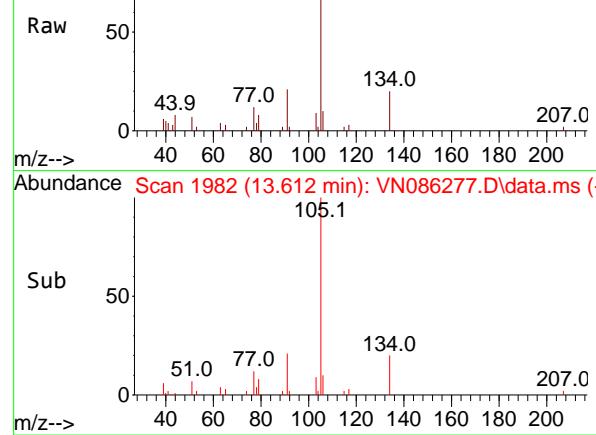
**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025

 #84
 1,2,4-Trimethylbenzene
 Concen: 1.110 ug/l
 RT: 13.482 min Scan# 1960
 Delta R.T. 0.006 min
 Lab File: VN086277.D
 Acq: 15 Apr 2025 11:29

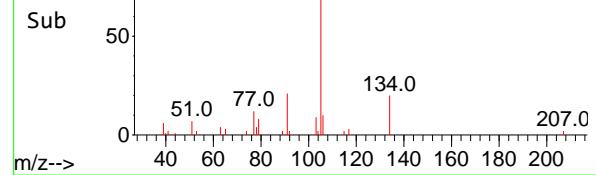
 Tgt Ion:105 Resp: 10977
 Ion Ratio Lower Upper
 105 100
 120 42.5 22.4 67.3




Abundance Scan 1982 (13.612 min): VN086277.D\data.ms (-)



Abundance Scan 1982 (13.612 min): VN086277.D\data.ms (-)



#85

sec-Butylbenzene

Concen: 1.106 ug/l

RT: 13.612 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion:105 Resp: 12920

Ion Ratio Lower Upper

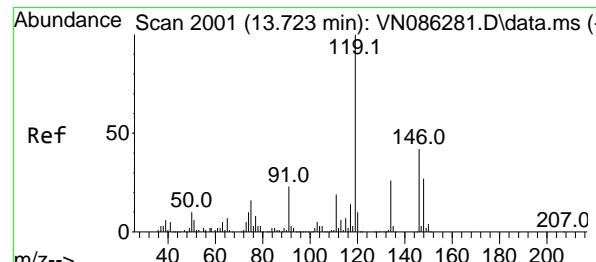
105 100

134 18.7 9.7 29.1

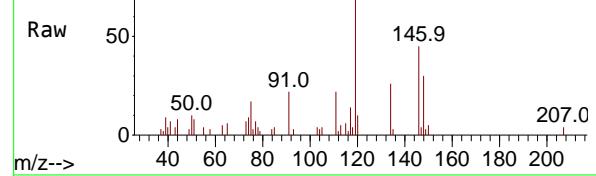
Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/16/2025

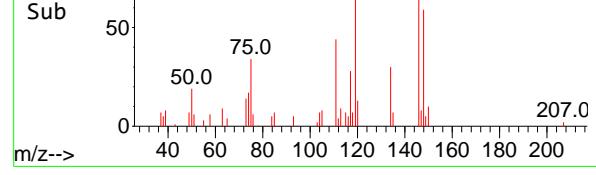
Supervised By :Semsettin Yesilyurt 04/16/2025



Abundance Scan 2002 (13.729 min): VN086277.D\data.ms (-)



Abundance Scan 2002 (13.729 min): VN086277.D\data.ms (-)



#86

p-Isopropyltoluene

Concen: 1.086 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.006 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

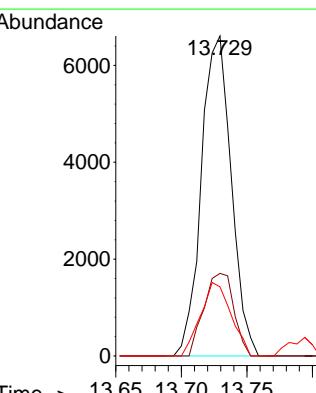
Tgt Ion:119 Resp: 10458

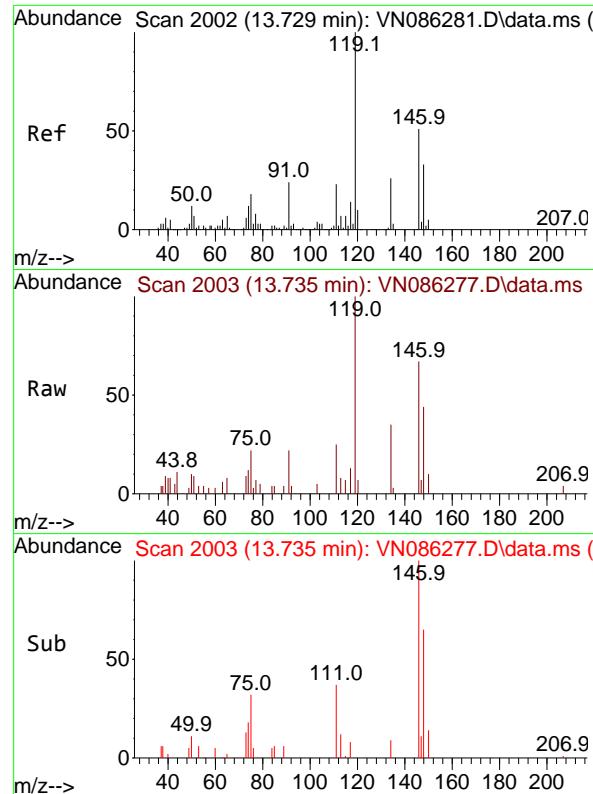
Ion Ratio Lower Upper

119 100

134 25.8 13.1 39.1

91 23.4 11.9 35.9





#87

1,3-Dichlorobenzene

Concen: 1.095 ug/l

RT: 13.735 min Scan# 2

Delta R.T. 0.006 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

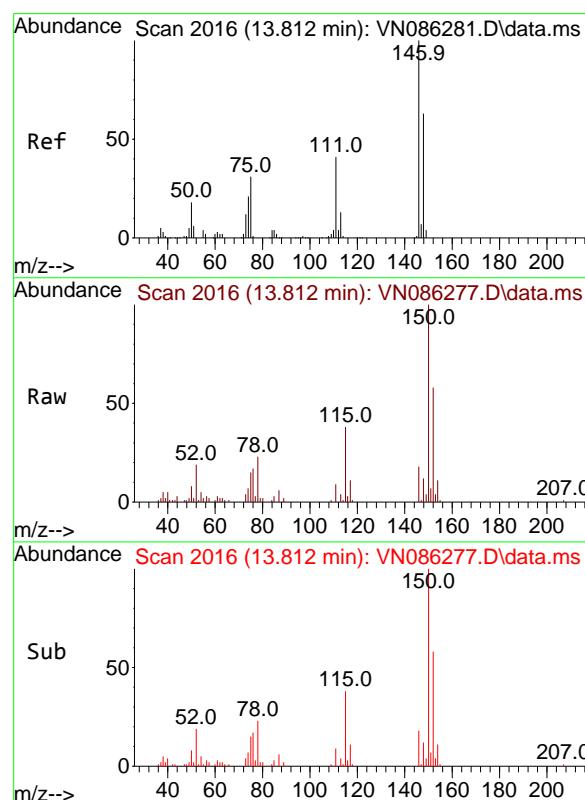
Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#88

1,4-Dichlorobenzene

Concen: 1.132 ug/l

RT: 13.812 min Scan# 2016

Delta R.T. 0.000 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

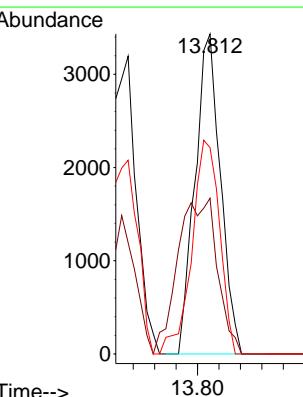
Tgt Ion:146 Resp: 5636

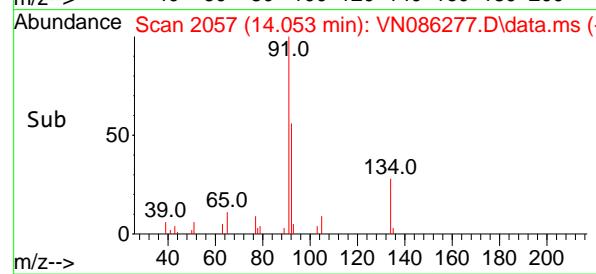
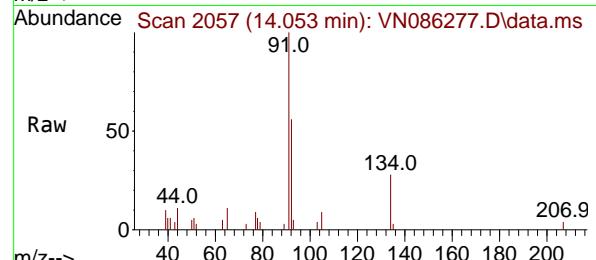
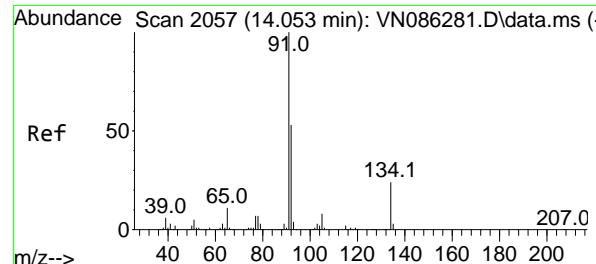
Ion Ratio Lower Upper

146 100

111 41.8 21.3 63.9

148 68.2 31.9 95.9





#89

n-Butylbenzene

Concen: 1.092 ug/l

RT: 14.053 min Scan# 2

Instrument :

MSVOA_N

Delta R.T. 0.000 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

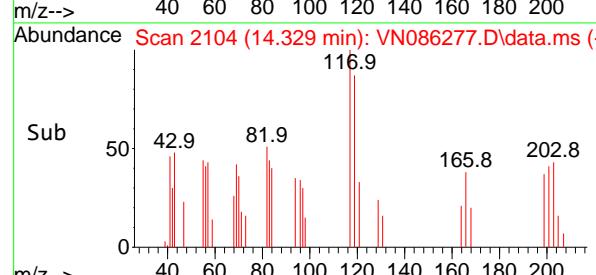
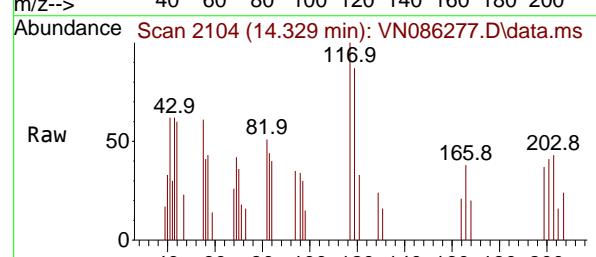
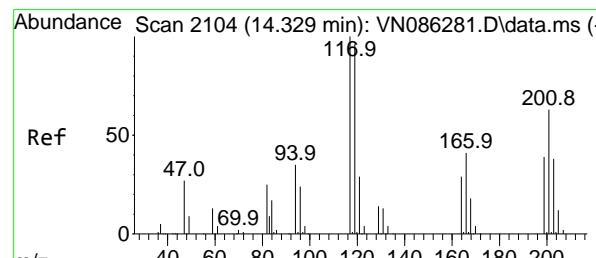
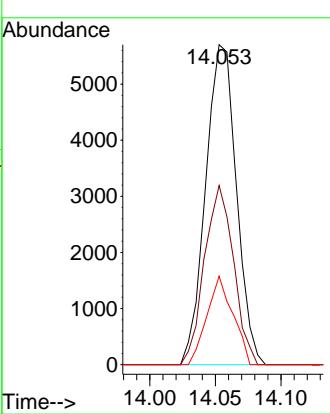
ClientSampleId :

VSTDICC001

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#90

Hexachloroethane

Concen: 1.107 ug/l

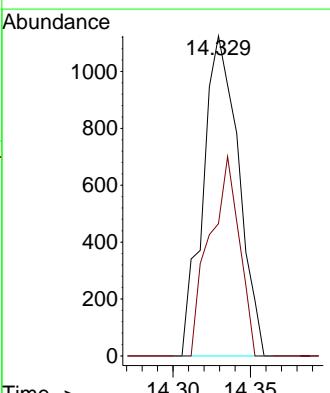
RT: 14.329 min Scan# 2104

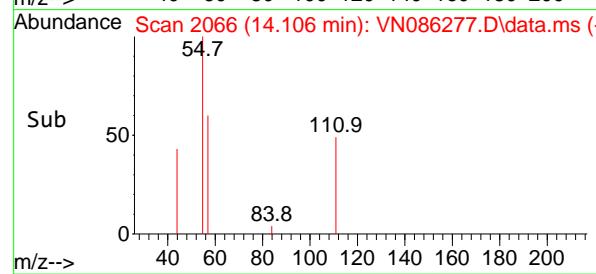
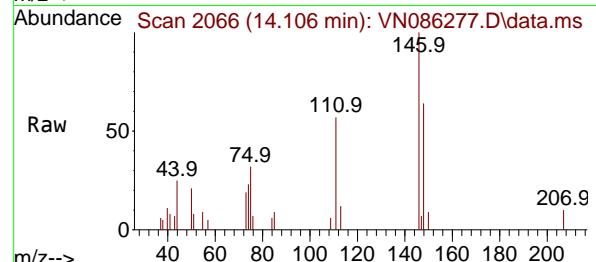
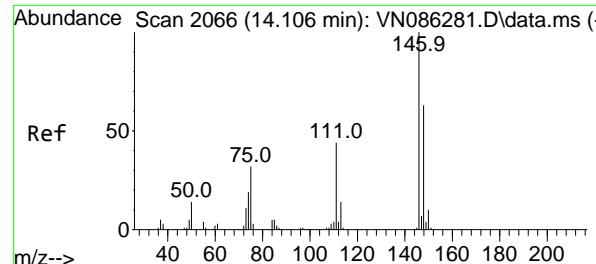
Delta R.T. 0.000 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

| Tgt | Ion: | Resp: | 1792 |
|-----|-------|-------|-------|
| Ion | Ratio | Lower | Upper |
| 117 | 100 | | |
| 201 | 52.0 | 31.4 | 94.2 |





#91

1,2-Dichlorobenzene

Concen: 1.101 ug/l

RT: 14.106 min Scan# 2

Delta R.T. 0.000 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

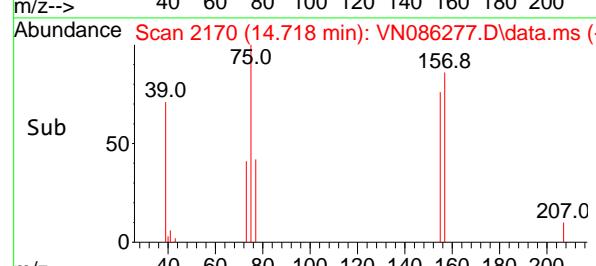
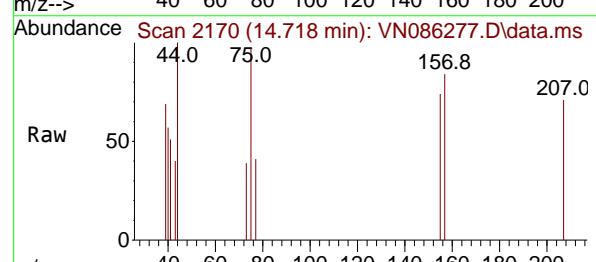
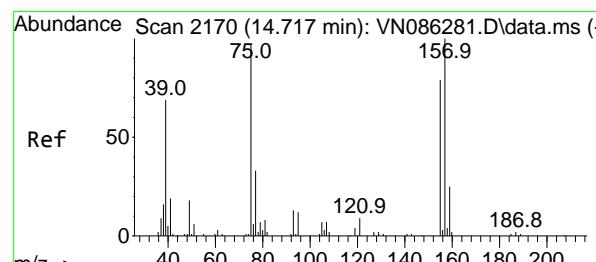
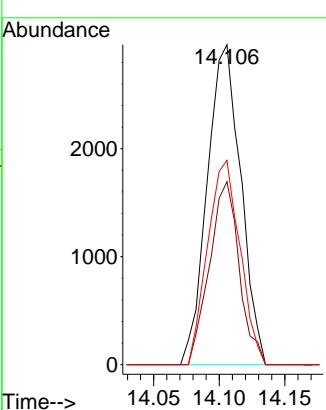
Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#92

1,2-Dibromo-3-Chloropropane

Concen: 0.987 ug/l

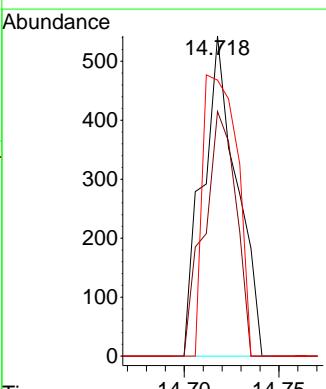
RT: 14.718 min Scan# 2170

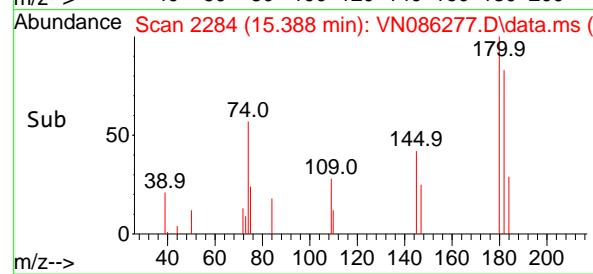
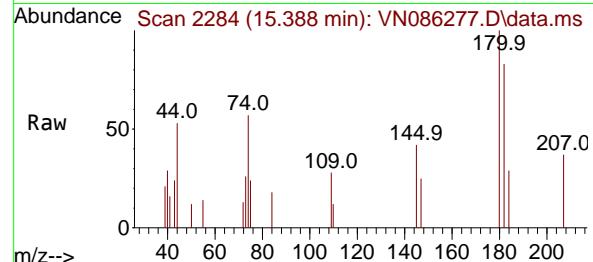
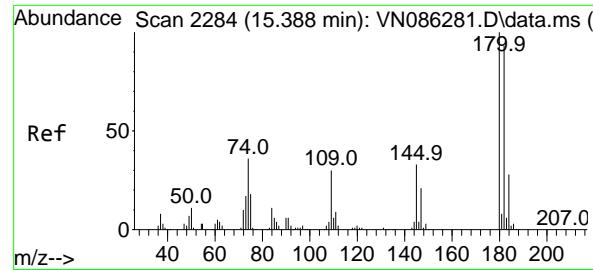
Delta R.T. 0.000 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

| Tgt | Ion: | Ion Ratio | Resp: | Lower | Upper |
|-----|------|-----------|-------|-------|-------|
| 75 | 100 | | 679 | | |
| 155 | 71.9 | 40.3 | 120.9 | | |
| 157 | 88.7 | 49.0 | 147.2 | | |





#93

1,2,4-Trichlorobenzene

Concen: 1.040 ug/l

RT: 15.388 min Scan# 2

Delta R.T. 0.000 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

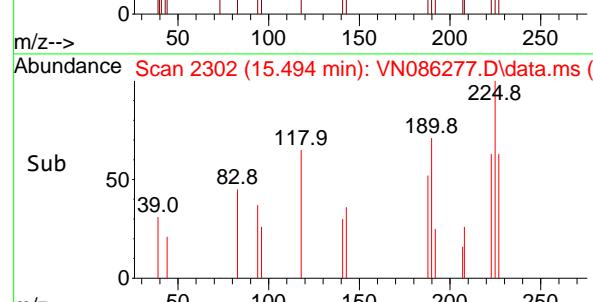
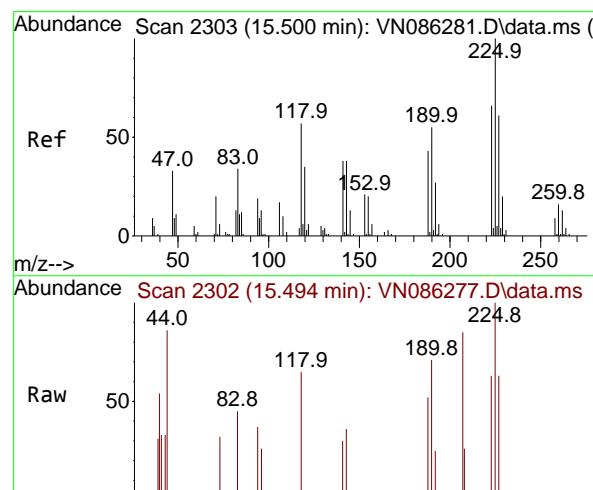
Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#94

Hexachlorobutadiene

Concen: 1.030 ug/l

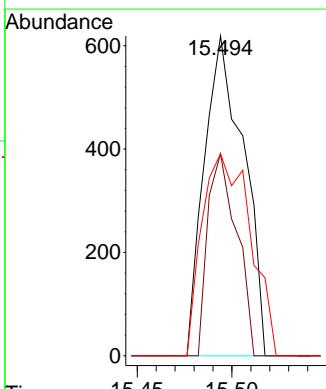
RT: 15.494 min Scan# 2302

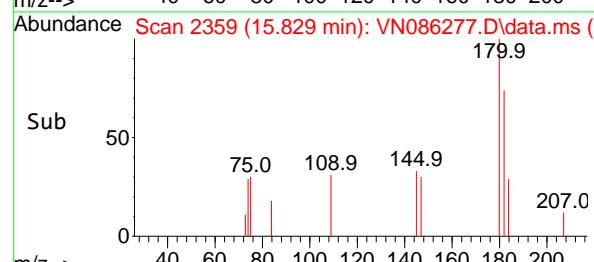
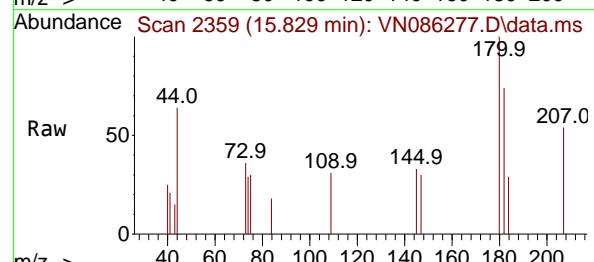
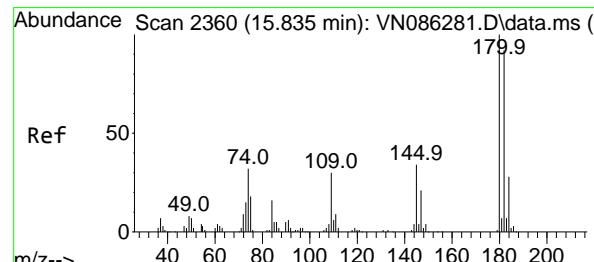
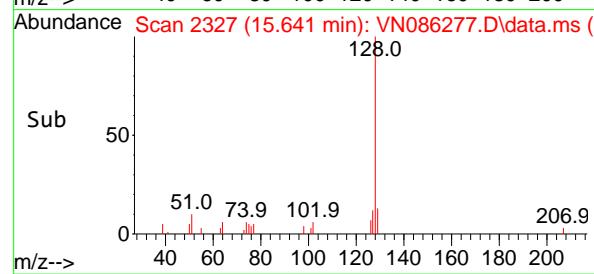
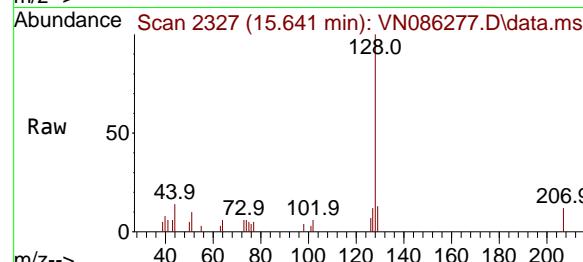
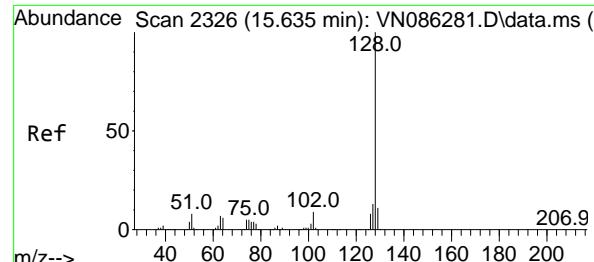
Delta R.T. -0.006 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

| Tgt | Ion:225 | Resp: | 893 |
|-----|---------|-------|-------|
| Ion | Ratio | Lower | Upper |
| 225 | 100 | | |
| 223 | 46.5 | 32.8 | 98.3 |
| 227 | 77.6 | 31.4 | 94.0 |





#95

Naphthalene

Concen: 1.074 ug/l

RT: 15.641 min Scan# 2

Delta R.T. 0.006 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

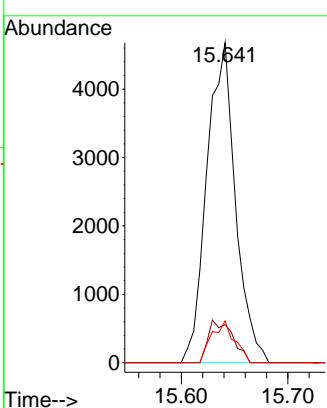
Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#96

1,2,3-Trichlorobenzene

Concen: 1.094 ug/l

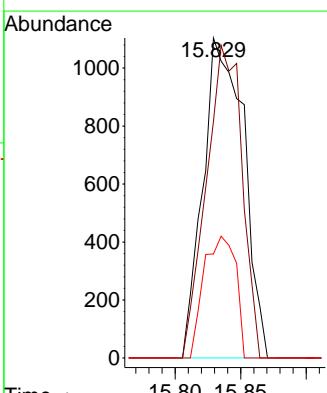
RT: 15.829 min Scan# 2359

Delta R.T. -0.006 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

| Tgt | Ion:180 | Resp: | 2378 |
|-----|---------|-------|-------|
| Ion | Ratio | Lower | Upper |
| 180 | 100 | | |
| 182 | 86.0 | 47.3 | 142.0 |
| 145 | 29.9 | 17.2 | 51.5 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041525\
 Data File : VN086278.D
 Acq On : 15 Apr 2025 12:21
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Quant Time: Apr 16 03:55:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 03:42:50 2025
 Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :John Carlane 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|------------------------------------|----------------|------|----------|---------------|----------|----------|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 8.224 | 168 | 234470 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 9.100 | 114 | 436245 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.865 | 117 | 375851 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.788 | 152 | 167796 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.577 | 65 | 17487 | 5.143 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery | = | 10.280%# | |
| 35) Dibromofluoromethane | 8.171 | 113 | 11660 | 5.759 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery | = | 11.520%# | |
| 50) Toluene-d8 | 10.565 | 98 | 54403 | 5.028 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery | = | 10.060%# | |
| 62) 4-Bromofluorobenzene | 12.847 | 95 | 20034 | 5.076 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery | = | 10.160%# | |
| Target Compounds | | | | | | |
| | | | | Qvalue | | |
| 2) Dichlorodifluoromethane | 2.124 | 85 | 13162 | 4.735 ug/l | 95 | |
| 3) Chloromethane | 2.359 | 50 | 21191 | 5.246 ug/l | 96 | |
| 4) Vinyl Chloride | 2.512 | 62 | 19342 | 5.018 ug/l | 99 | |
| 5) Bromomethane | 2.948 | 94 | 8981 | 5.180 ug/l | 91 | |
| 6) Chloroethane | 3.112 | 64 | 13592 | 5.268 ug/l | 98 | |
| 7) Trichlorofluoromethane | 3.495 | 101 | 22304 | 5.223 ug/l | 92 | |
| 8) Diethyl Ether | 3.959 | 74 | 9862 | 5.291 ug/l | 98 | |
| 9) 1,1,2-Trichlorotrifluo... | 4.377 | 101 | 13633 | 5.278 ug/l | 99 | |
| 10) Methyl Iodide | 4.589 | 142 | 14033 | 4.941 ug/l | 94 | |
| 11) Tert butyl alcohol | 5.518 | 59 | 16966 | 27.348 ug/l # | 88 | |
| 12) 1,1-Dichloroethene | 4.342 | 96 | 14583 | 5.284 ug/l | 94 | |
| 13) Acrolein | 4.177 | 56 | 14133 | 35.938 ug/l | 91 | |
| 14) Allyl chloride | 5.018 | 41 | 25369 | 5.174 ug/l | 98 | |
| 15) Acrylonitrile | 5.712 | 53 | 40960 | 26.709 ug/l | 99 | |
| 16) Acetone | 4.430 | 43 | 33298 | 23.124 ug/l | 100 | |
| 17) Carbon Disulfide | 4.712 | 76 | 43706 | 5.289 ug/l | 98 | |
| 18) Methyl Acetate | 5.024 | 43 | 21384 | 5.239 ug/l | 97 | |
| 19) Methyl tert-butyl Ether | 5.789 | 73 | 53138 | 5.238 ug/l | 92 | |
| 20) Methylene Chloride | 5.277 | 84 | 16566 | 5.270 ug/l | 97 | |
| 21) trans-1,2-Dichloroethene | 5.783 | 96 | 15380 | 5.331 ug/l | 98 | |
| 22) Diisopropyl ether | 6.665 | 45 | 55913 | 5.239 ug/l # | 98 | |
| 23) Vinyl Acetate | 6.600 | 43 | 205955m | 27.614 ug/l | | |
| 24) 1,1-Dichloroethane | 6.559 | 63 | 29865 | 5.304 ug/l | 99 | |
| 25) 2-Butanone | 7.483 | 43 | 55470 | 26.210 ug/l | 100 | |
| 26) 2,2-Dichloropropane | 7.488 | 77 | 27048 | 5.365 ug/l | 99 | |
| 27) cis-1,2-Dichloroethene | 7.483 | 96 | 18982 | 5.301 ug/l | 97 | |
| 28) Bromochloromethane | 7.806 | 49 | 14246 | 5.967 ug/l | 95 | |
| 29) Tetrahydrofuran | 7.841 | 42 | 37437 | 26.453 ug/l | 99 | |
| 30) Chloroform | 7.965 | 83 | 28901 | 5.225 ug/l | 98 | |
| 31) Cyclohexane | 8.253 | 56 | 33730 | 6.122 ug/l | 96 | |
| 32) 1,1,1-Trichloroethane | 8.165 | 97 | 25387 | 5.365 ug/l | 89 | |
| 36) 1,1-Dichloropropene | 8.371 | 75 | 21310 | 5.270 ug/l | 100 | |
| 37) Ethyl Acetate | 7.559 | 43 | 22206 | 5.216 ug/l | 99 | |
| 38) Carbon Tetrachloride | 8.359 | 117 | 20544 | 5.335 ug/l | 92 | |
| 39) Methylcyclohexane | 9.594 | 83 | 25242 | 5.251 ug/l | 99 | |
| 40) Benzene | 8.600 | 78 | 67406 | 5.202 ug/l | 97 | |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041525\
 Data File : VN086278.D
 Acq On : 15 Apr 2025 12:21
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Quant Time: Apr 16 03:55:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 03:42:50 2025
 Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :John Carlane 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile | 7.771 | 41 | 12454 | 5.047 | ug/1 | 95 |
| 42) 1,2-Dichloroethane | 8.671 | 62 | 21638 | 5.237 | ug/1 | 100 |
| 43) Isopropyl Acetate | 8.682 | 43 | 55105 | 5.444 | ug/1 # | 90 |
| 44) Trichloroethene | 9.353 | 130 | 15562 | 5.067 | ug/1 | 95 |
| 45) 1,2-Dichloropropane | 9.618 | 63 | 16719 | 5.272 | ug/1 | 94 |
| 46) Dibromomethane | 9.706 | 93 | 10633 | 5.262 | ug/1 | 97 |
| 47) Bromodichloromethane | 9.888 | 83 | 23118 | 5.297 | ug/1 | 95 |
| 48) Methyl methacrylate | 9.682 | 41 | 19018 | 5.087 | ug/1 | 98 |
| 49) 1,4-Dioxane | 9.688 | 88 | 6722 | 105.699 | ug/1 | 97 |
| 51) 4-Methyl-2-Pentanone | 10.441 | 43 | 113773 | 26.097 | ug/1 | 100 |
| 52) Toluene | 10.624 | 92 | 42032 | 5.199 | ug/1 | 100 |
| 53) t-1,3-Dichloropropene | 10.835 | 75 | 25020 | 5.136 | ug/1 | 99 |
| 54) cis-1,3-Dichloropropene | 10.306 | 75 | 27737 | 5.183 | ug/1 | 95 |
| 55) 1,1,2-Trichloroethane | 11.018 | 97 | 15559 | 5.349 | ug/1 | 98 |
| 56) Ethyl methacrylate | 10.871 | 69 | 28102 | 5.256 | ug/1 | 97 |
| 57) 1,3-Dichloropropane | 11.159 | 76 | 26905 | 5.213 | ug/1 | 100 |
| 58) 2-Chloroethyl Vinyl ether | 10.153 | 63 | 77113 | 30.387 | ug/1 | 100 |
| 59) 2-Hexanone | 11.194 | 43 | 84443 | 26.113 | ug/1 | 99 |
| 60) Dibromochloromethane | 11.359 | 129 | 16611 | 5.201 | ug/1 | 100 |
| 61) 1,2-Dibromoethane | 11.471 | 107 | 14929 | 5.087 | ug/1 | 97 |
| 64) Tetrachloroethene | 11.100 | 164 | 14998 | 5.188 | ug/1 | 96 |
| 65) Chlorobenzene | 11.888 | 112 | 44164 | 5.265 | ug/1 | 95 |
| 66) 1,1,1,2-Tetrachloroethane | 11.959 | 131 | 14896 | 5.383 | ug/1 | 98 |
| 67) Ethyl Benzene | 11.959 | 91 | 79376 | 5.244 | ug/1 | 97 |
| 68) m/p-Xylenes | 12.071 | 106 | 59758 | 10.537 | ug/1 | 99 |
| 69) o-Xylene | 12.394 | 106 | 29751 | 5.305 | ug/1 | 98 |
| 70) Styrene | 12.406 | 104 | 48407 | 5.180 | ug/1 | 99 |
| 71) Bromoform | 12.576 | 173 | 11065 | 5.311 | ug/1 # | 97 |
| 73) Isopropylbenzene | 12.694 | 105 | 71658 | 5.221 | ug/1 | 100 |
| 74) N-amyl acetate | 12.488 | 43 | 35409 | 5.182 | ug/1 | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.935 | 83 | 21720 | 5.503 | ug/1 | 99 |
| 76) 1,2,3-Trichloropropane | 12.988 | 75 | 19196m | 4.870 | ug/1 | |
| 77) Bromobenzene | 12.976 | 156 | 15681 | 5.156 | ug/1 | 93 |
| 78) n-propylbenzene | 13.035 | 91 | 85101 | 5.261 | ug/1 | 99 |
| 79) 2-Chlorotoluene | 13.123 | 91 | 54490 | 5.384 | ug/1 | 98 |
| 80) 1,3,5-Trimethylbenzene | 13.170 | 105 | 59035 | 5.255 | ug/1 | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.735 | 75 | 8832m | 5.357 | ug/1 | |
| 82) 4-Chlorotoluene | 13.217 | 91 | 52887 | 5.260 | ug/1 | 99 |
| 83) tert-Butylbenzene | 13.435 | 119 | 51302 | 5.270 | ug/1 | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.476 | 105 | 61145 | 5.347 | ug/1 | 98 |
| 85) sec-Butylbenzene | 13.612 | 105 | 72305 | 5.355 | ug/1 | 99 |
| 86) p-Isopropyltoluene | 13.723 | 119 | 58514 | 5.258 | ug/1 | 99 |
| 87) 1,3-Dichlorobenzene | 13.729 | 146 | 30570 | 5.347 | ug/1 | 100 |
| 88) 1,4-Dichlorobenzene | 13.806 | 146 | 30447 | 5.287 | ug/1 | 94 |
| 89) n-Butylbenzene | 14.053 | 91 | 50562 | 5.126 | ug/1 | 99 |
| 90) Hexachloroethane | 14.329 | 117 | 9832 | 5.252 | ug/1 | 97 |
| 91) 1,2-Dichlorobenzene | 14.100 | 146 | 30546 | 5.511 | ug/1 | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.717 | 75 | 4593 | 5.772 | ug/1 | 93 |
| 93) 1,2,4-Trichlorobenzene | 15.388 | 180 | 14506 | 5.465 | ug/1 | 99 |
| 94) Hexachlorobutadiene | 15.500 | 225 | 5680 | 5.669 | ug/1 | 97 |
| 95) Naphthalene | 15.641 | 128 | 49586 | 5.270 | ug/1 | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.841 | 180 | 13599 | 5.412 | ug/1 | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041525\
Data File : VN086278.D
Acq On : 15 Apr 2025 12:21
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carbone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

Quant Time: Apr 16 03:55:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 16 03:42:50 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

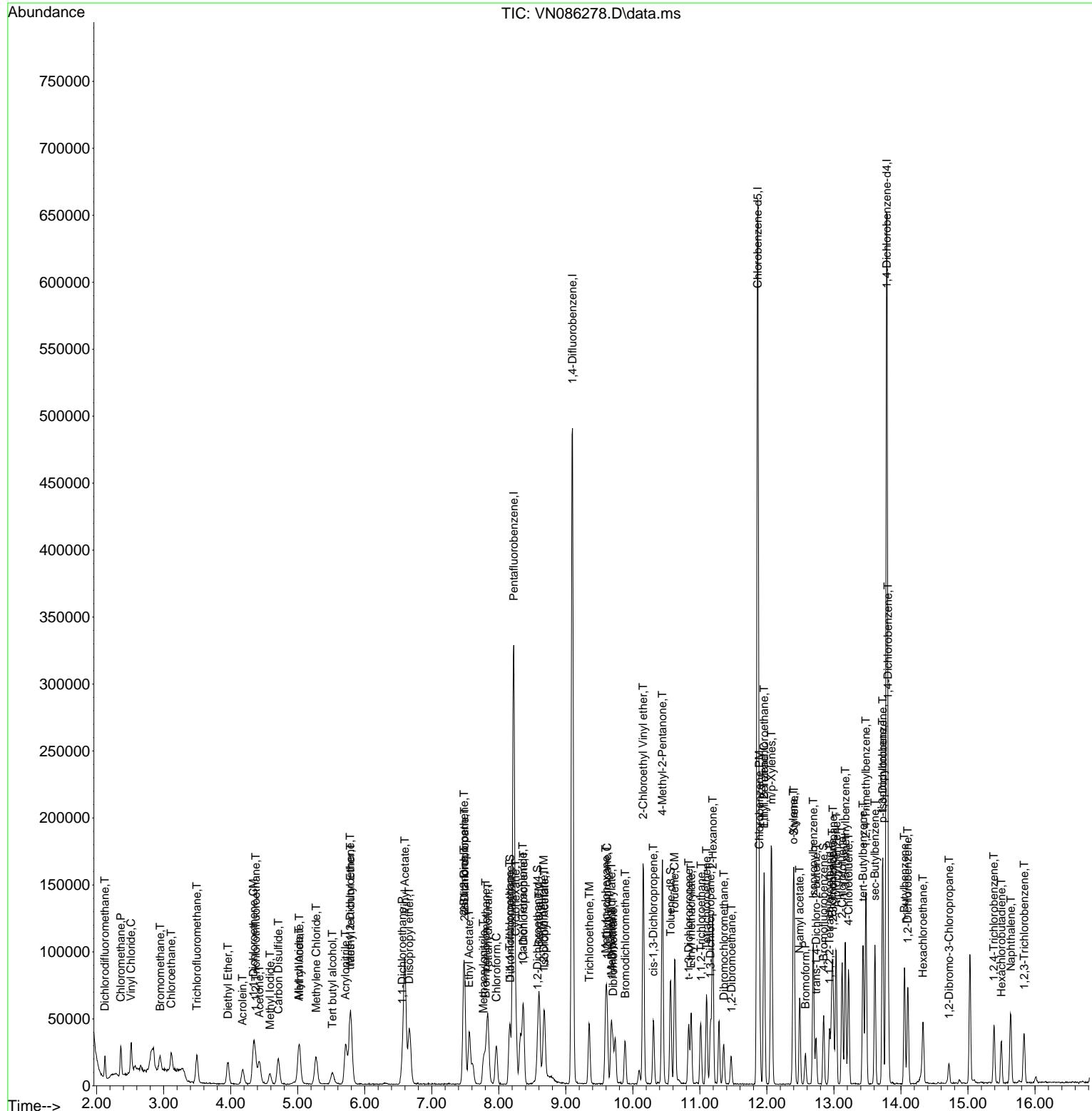
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 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

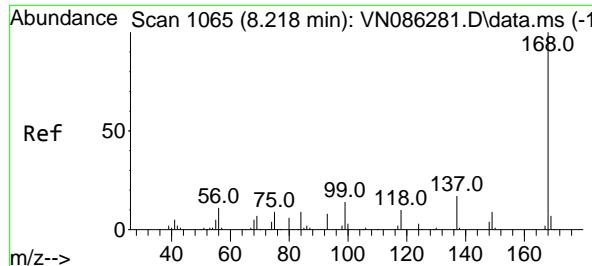
Quant Time: Apr 16 03:55:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 03:42:50 2025
 Response via : Initial Calibration

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Manual Integrations
APPROVED

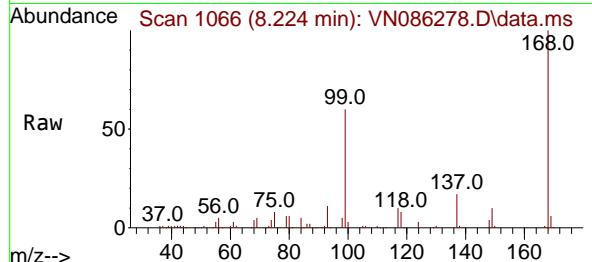
Reviewed By :John Carlane 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

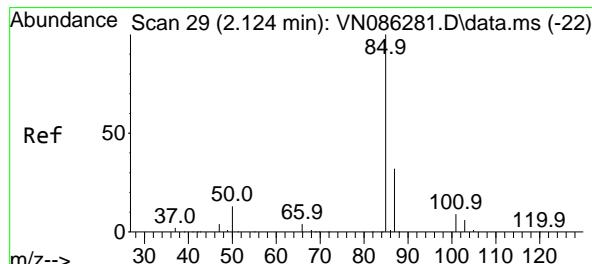
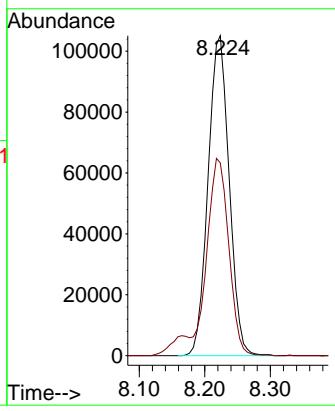
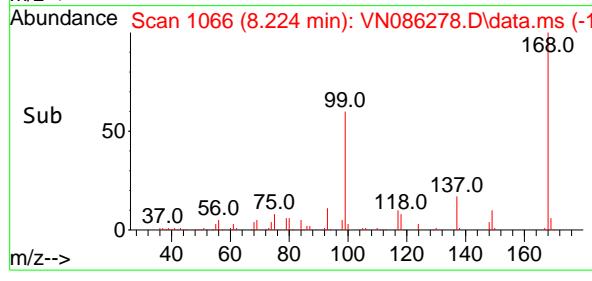
Instrument : MSVOA_N
ClientSampleId : VSTDICC005



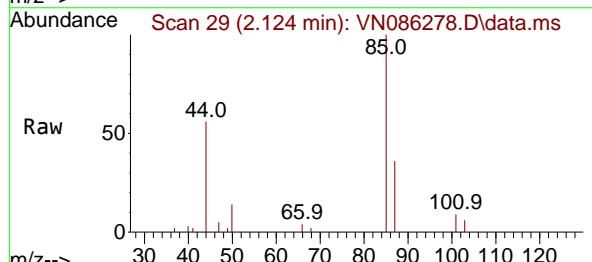
Tgt Ion:168 Resp: 234470
Ion Ratio Lower Upper
168 100
99 60.2 52.5 78.7

Manual Integrations APPROVED

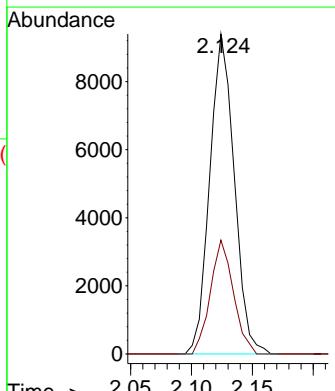
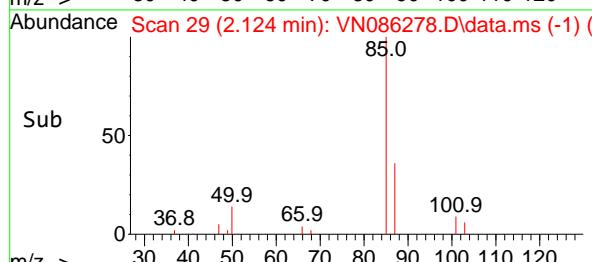
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

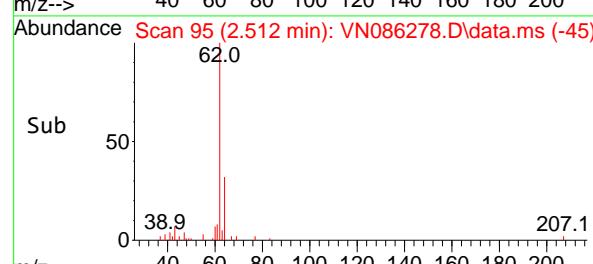
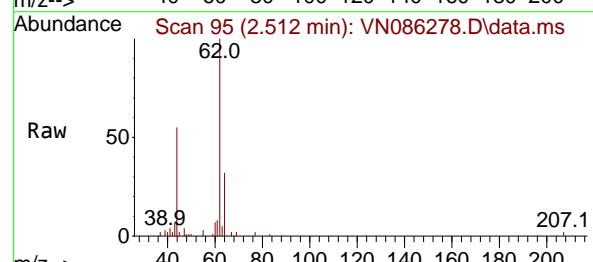
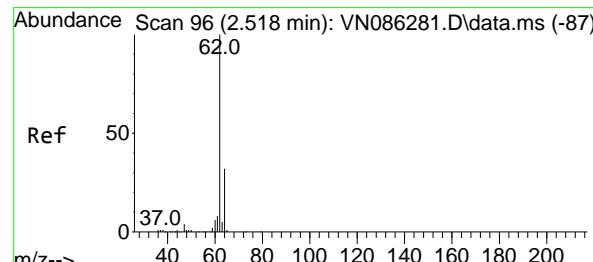
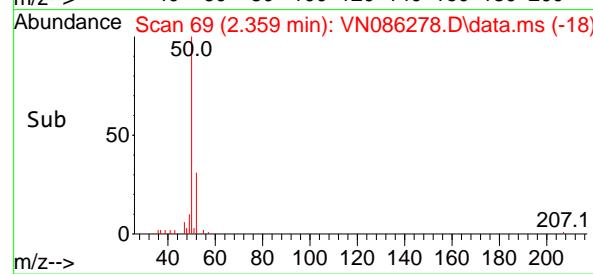
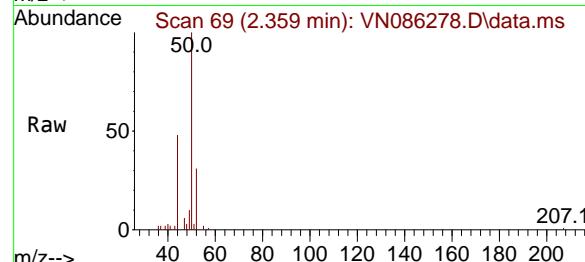
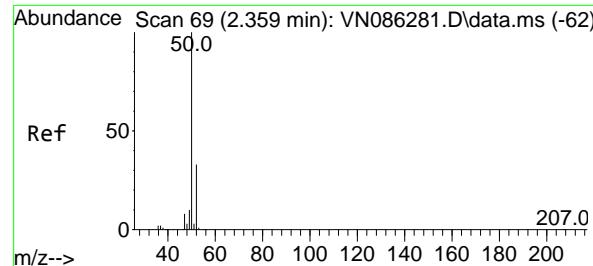


#2
Dichlorodifluoromethane
Concen: 4.735 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21



Tgt Ion: 85 Resp: 13162
Ion Ratio Lower Upper
85 100
87 35.6 16.3 48.8





#3

Chloromethane

Concen: 5.246 ug/l

RT: 2.359 min Scan# 6

Delta R.T. -0.000 min

Lab File: VN086278.D

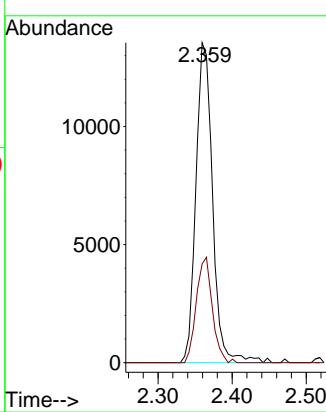
Acq: 15 Apr 2025 12:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

**Manual Integrations
APPROVED**
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

#4

Vinyl Chloride

Concen: 5.018 ug/l

RT: 2.512 min Scan# 95

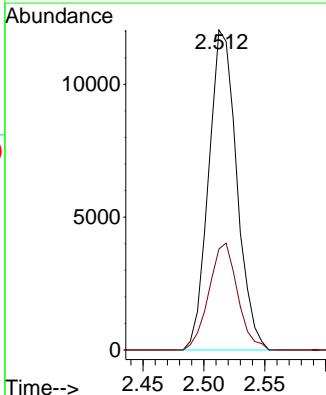
Delta R.T. -0.006 min

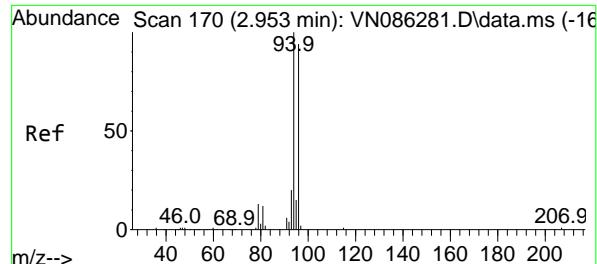
Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

Tgt Ion: 62 Resp: 19342

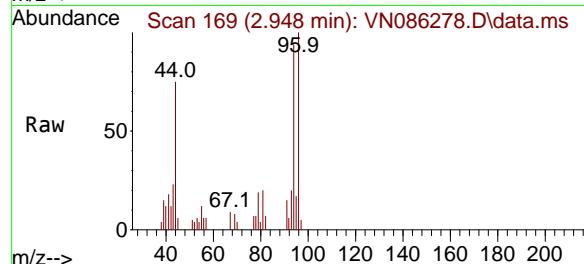
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 62 | 100 | | |
| 64 | 31.5 | 25.6 | 38.4 |





#5
 Bromomethane
 Concen: 5.180 ug/l
 RT: 2.948 min Scan# 1
 Delta R.T. -0.006 min
 Lab File: VN086278.D
 Acq: 15 Apr 2025 12:21

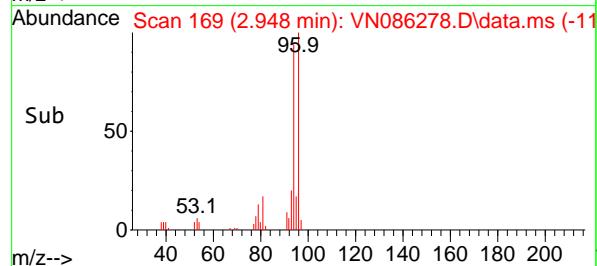
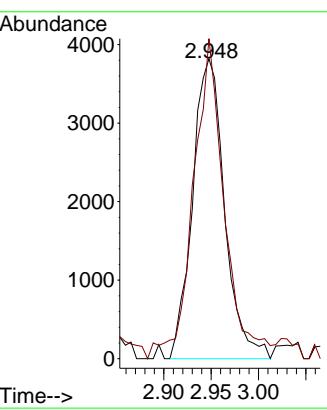
Instrument : MSVOA_N
 ClientSampleId : VSTDICC005



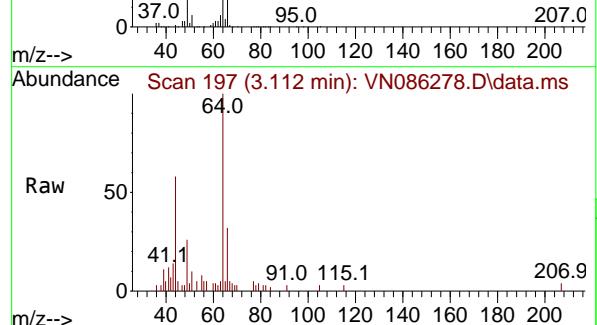
Tgt Ion: 94 Resp: 898:
 Ion Ratio Lower Upper
 94 100
 96 102.3 75.2 112.8

Manual Integrations APPROVED

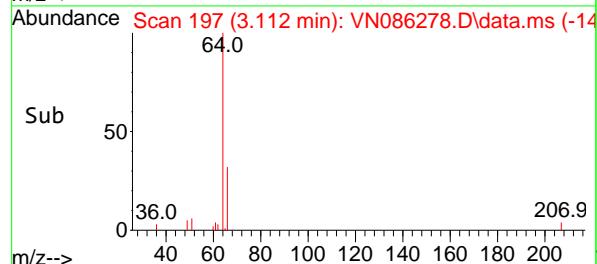
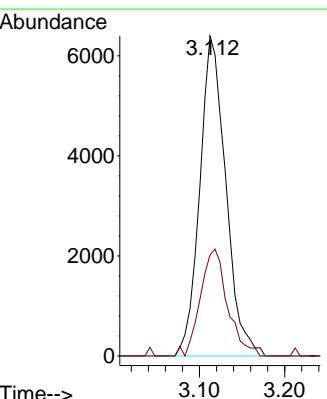
Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025

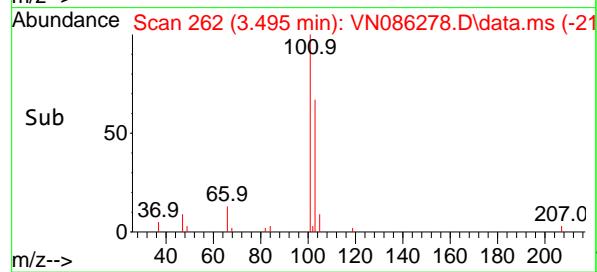
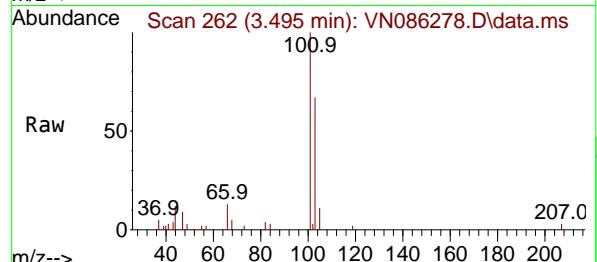
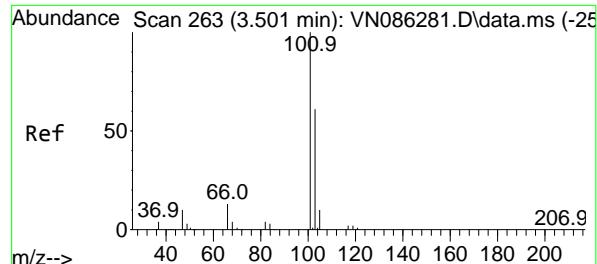


#6
 Chloroethane
 Concen: 5.268 ug/l
 RT: 3.112 min Scan# 197
 Delta R.T. -0.006 min
 Lab File: VN086278.D
 Acq: 15 Apr 2025 12:21



Tgt Ion: 64 Resp: 13592
 Ion Ratio Lower Upper
 64 100
 66 31.6 26.2 39.2





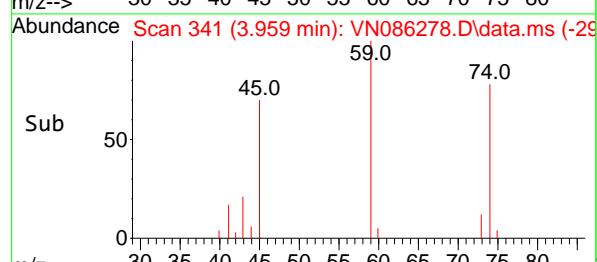
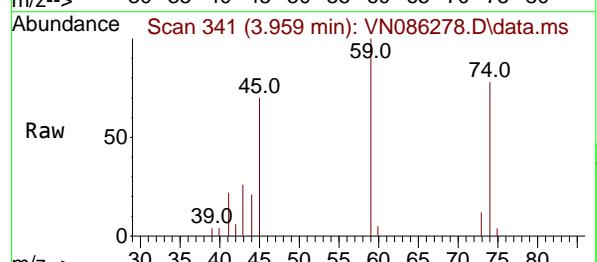
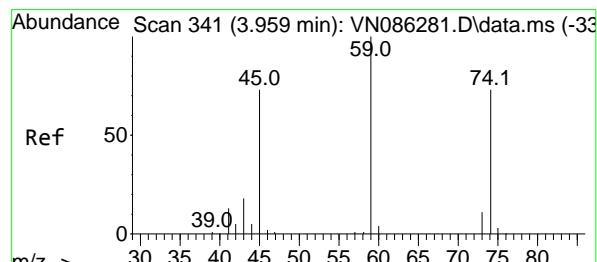
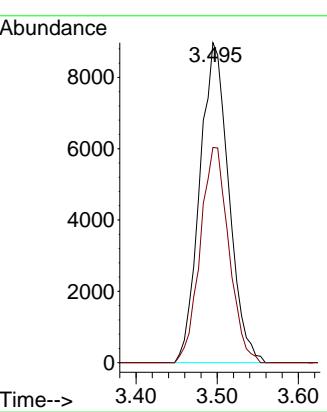
#7

Trichlorofluoromethane
Concen: 5.223 ug/l
RT: 3.495 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

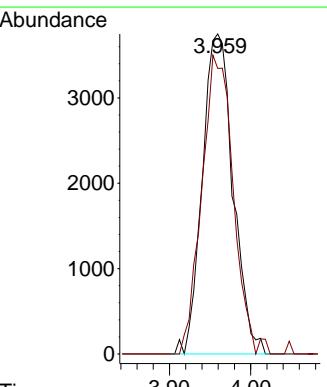
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

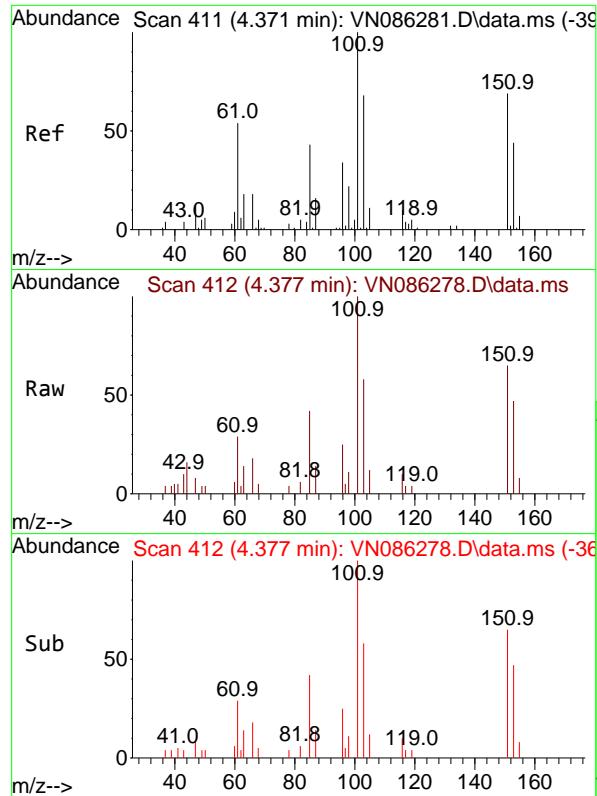


#8

Diethyl Ether
Concen: 5.291 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.000 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

Tgt Ion: 74 Resp: 9862
Ion Ratio Lower Upper
74 100
45 94.4 48.0 144.2



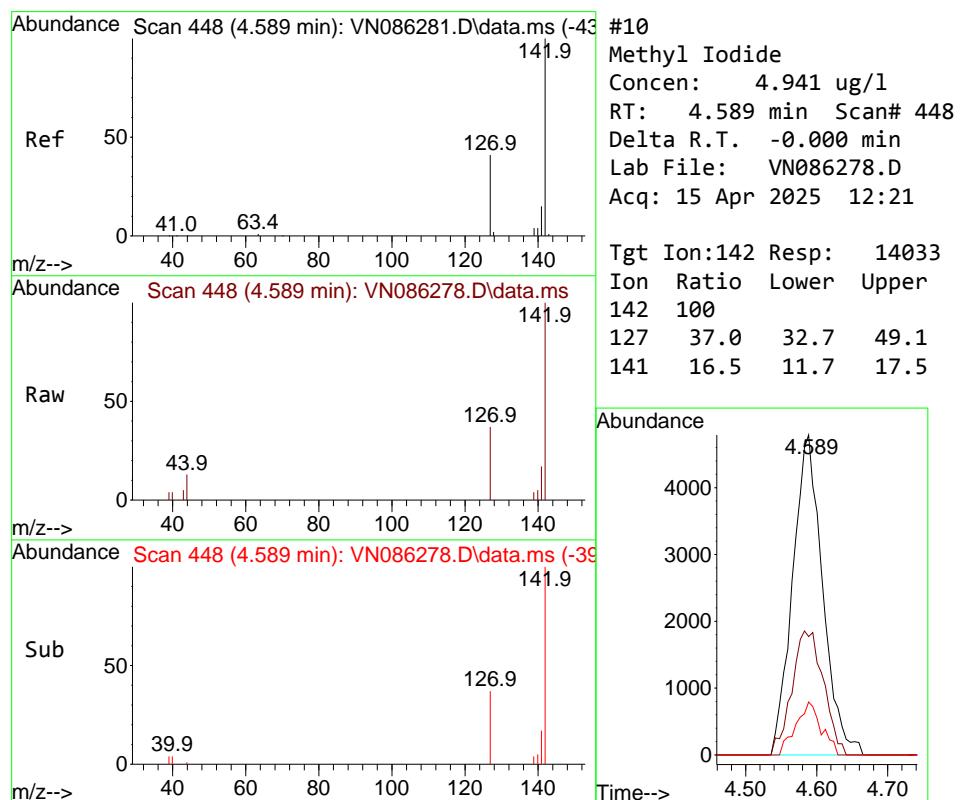
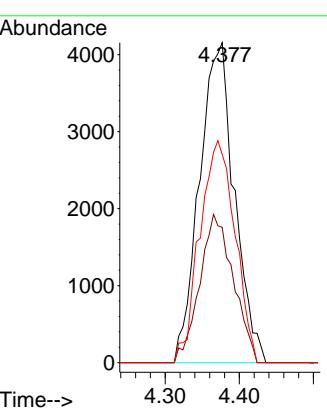


#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.278 ug/l
RT: 4.377 min Scan# 411
Delta R.T. 0.006 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

Instrument : MSVOA_N
ClientSampleId : VSTDICC005

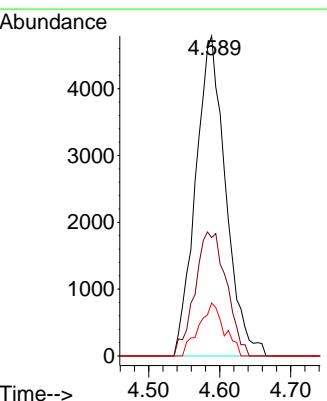
Manual Integrations
APPROVED

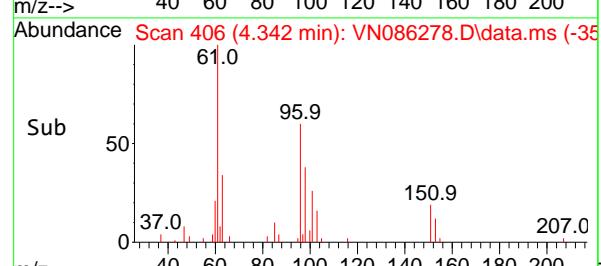
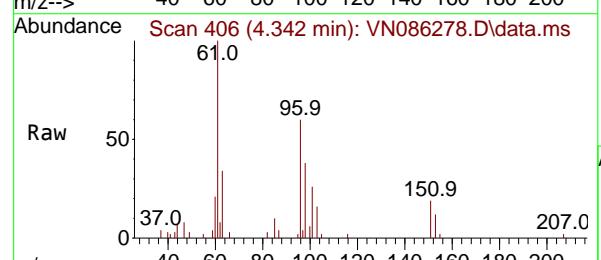
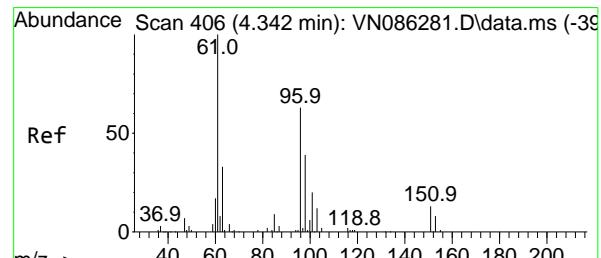
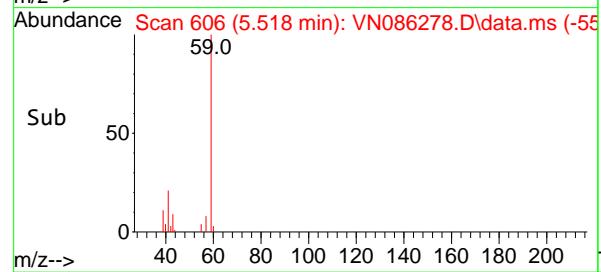
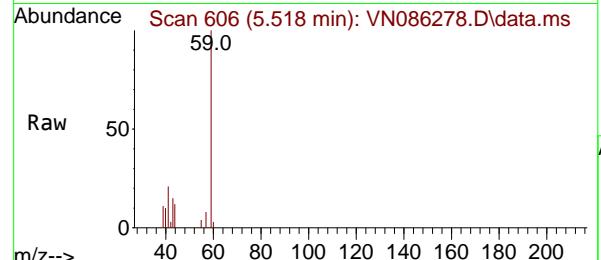
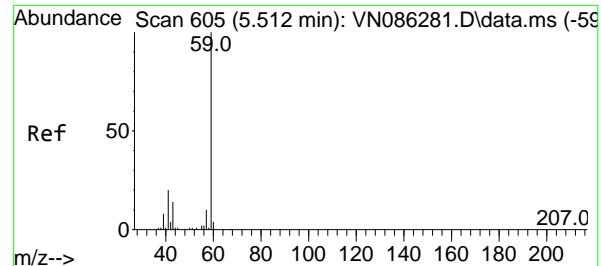
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#10
Methyl Iodide
Concen: 4.941 ug/l
RT: 4.589 min Scan# 448
Delta R.T. -0.000 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

Tgt Ion:142 Resp: 14033
Ion Ratio Lower Upper
142 100
127 37.0 32.7 49.1
141 16.5 11.7 17.5





#11

Tert butyl alcohol

Concen: 27.348 ug/l

RT: 5.518 min Scan# 6

Delta R.T. 0.006 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

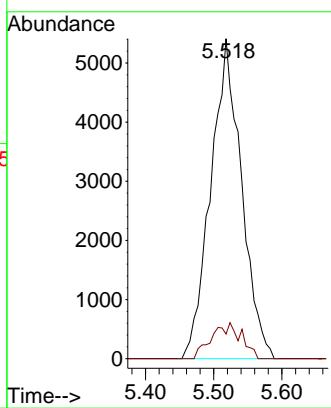
Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#12

1,1-Dichloroethene

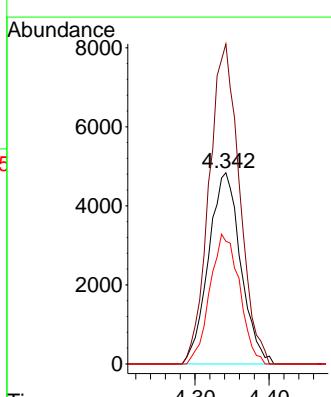
Concen: 5.284 ug/l

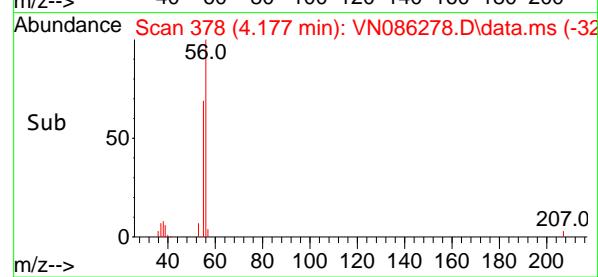
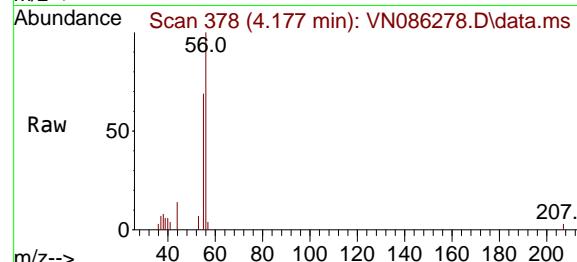
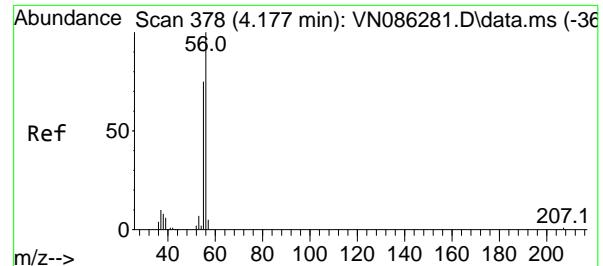
RT: 4.342 min Scan# 406

Delta R.T. -0.000 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

 Tgt Ion: 96 Resp: 14583
 Ion Ratio Lower Upper
 96 100
 61 167.4 126.6 189.8
 98 64.2 49.6 74.4




#13

Acrolein

Concen: 35.938 ug/l

RT: 4.177 min Scan# 3

Delta R.T. -0.000 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

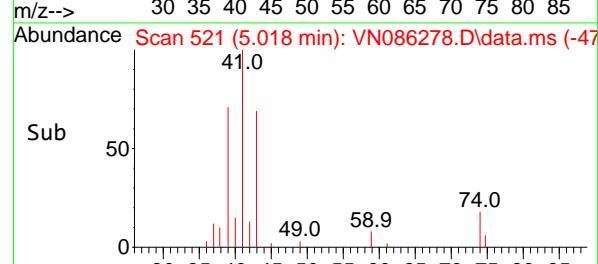
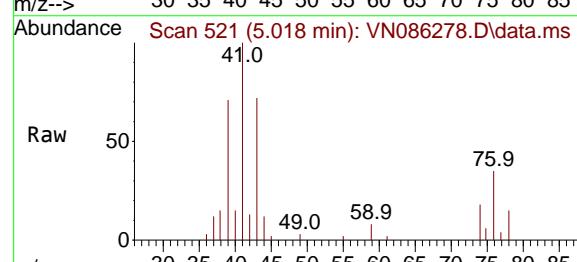
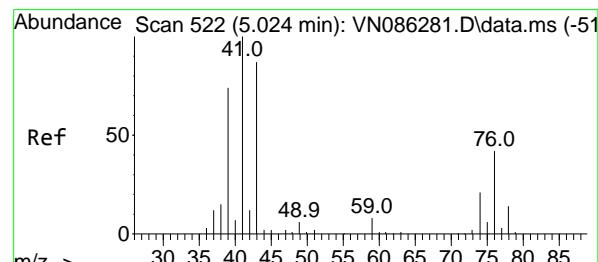
Instrument:

MSVOA_N

ClientSampleId :

VSTDICC005

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#14

Allyl chloride

Concen: 5.174 ug/l

RT: 5.018 min Scan# 521

Delta R.T. -0.006 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

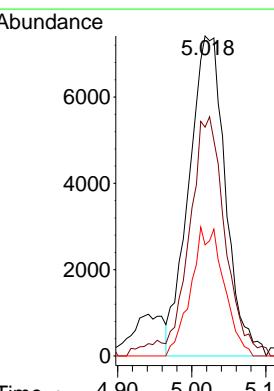
Tgt Ion: 41 Resp: 25369

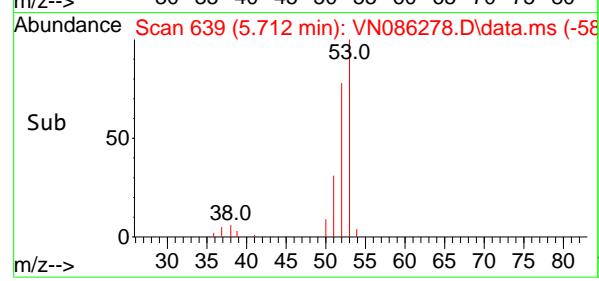
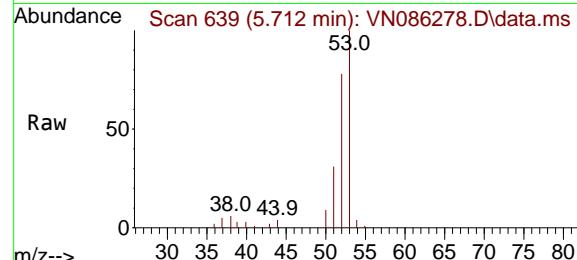
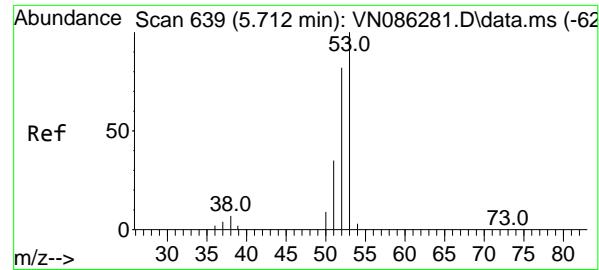
Ion Ratio Lower Upper

41 100

39 74.8 59.2 88.8

76 36.4 31.2 46.8





#15

Acrylonitrile

Concen: 26.709 ug/l

RT: 5.712 min Scan# 6

Delta R.T. -0.000 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

Instrument:

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 53 Resp: 40960

Ion Ratio Lower Upper

53 100

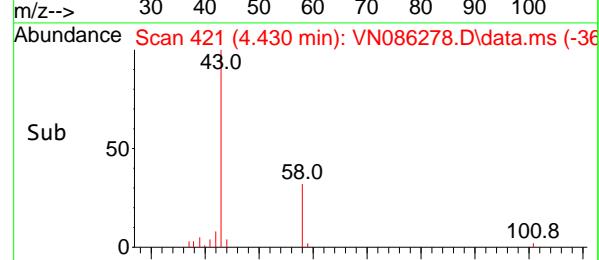
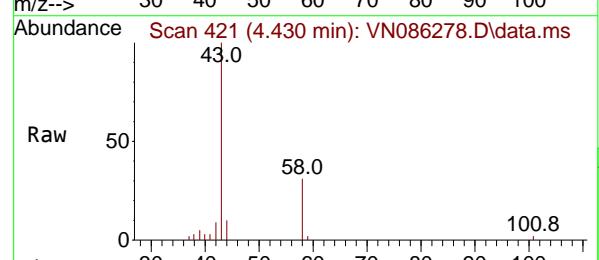
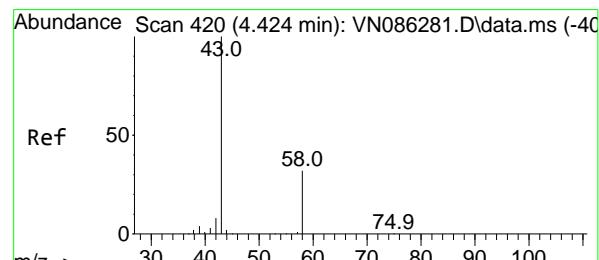
52 80.2 65.5 98.3

51 35.5 28.6 42.8

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#16

Acetone

Concen: 23.124 ug/l

RT: 4.430 min Scan# 421

Delta R.T. 0.006 min

Lab File: VN086278.D

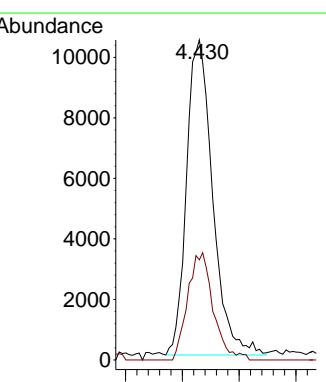
Acq: 15 Apr 2025 12:21

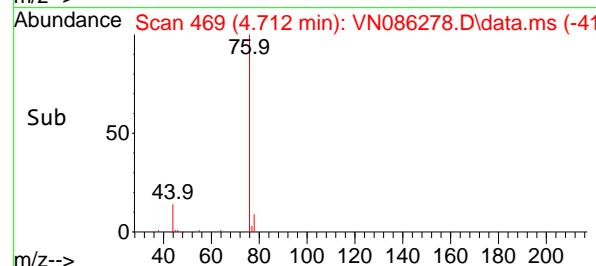
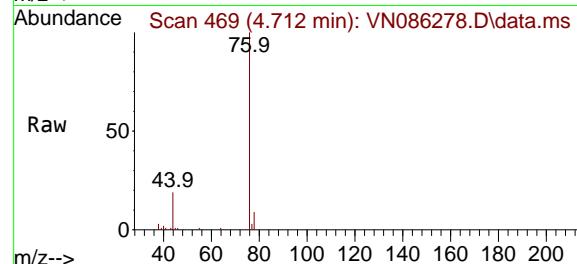
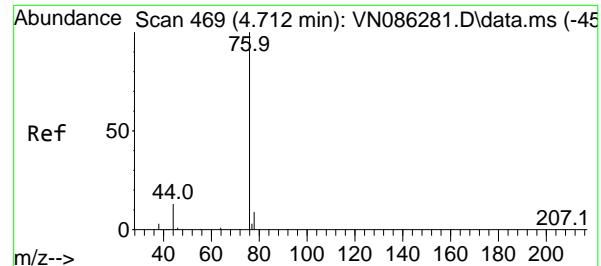
Tgt Ion: 43 Resp: 33298

Ion Ratio Lower Upper

43 100

58 31.8 25.3 37.9





#17

Carbon Disulfide

Concen: 5.289 ug/l

RT: 4.712 min Scan# 4

Delta R.T. -0.000 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

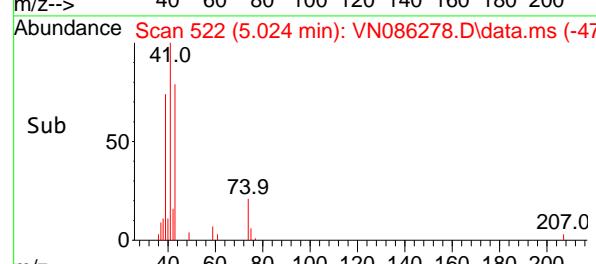
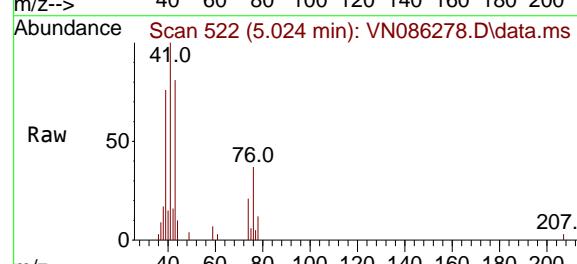
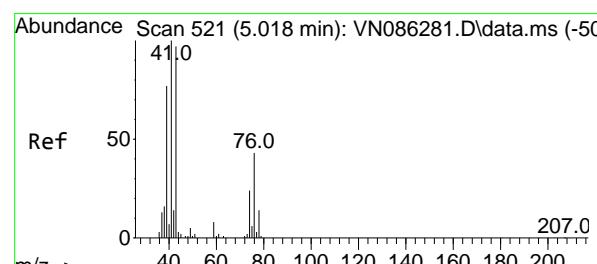
Instrument:

MSVOA_N

ClientSampleId :

VSTDICC005

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#18

Methyl Acetate

Concen: 5.239 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.006 min

Lab File: VN086278.D

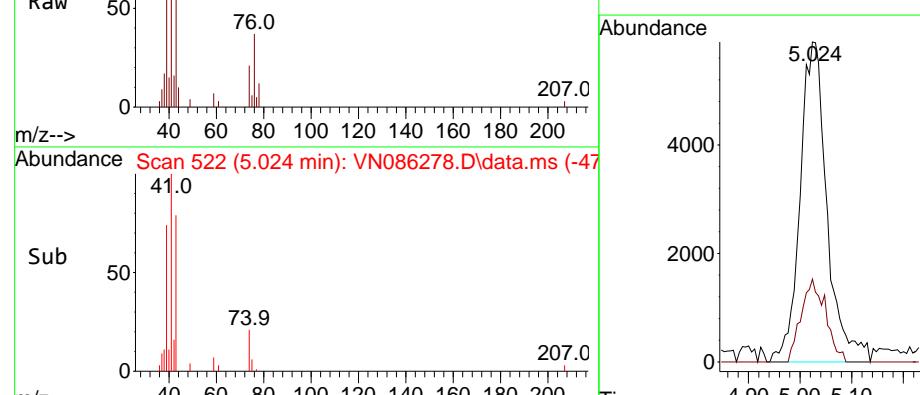
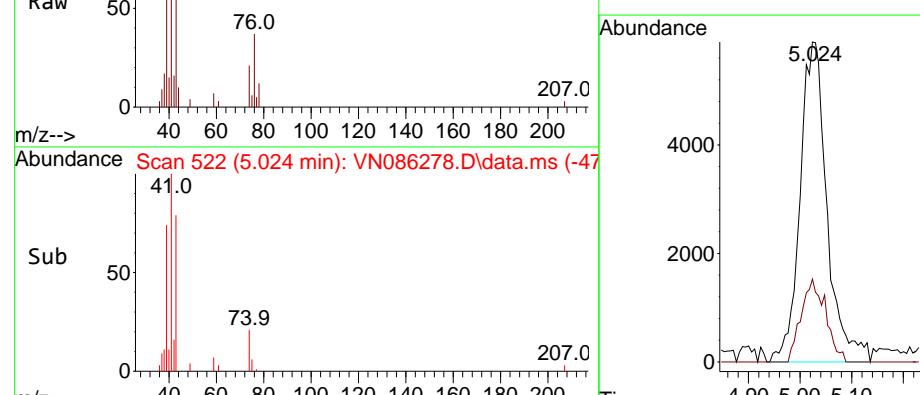
Acq: 15 Apr 2025 12:21

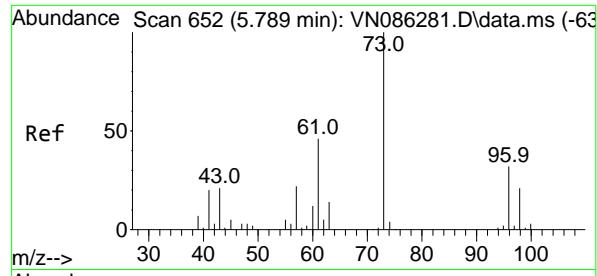
Tgt Ion: 43 Resp: 21384

Ion Ratio Lower Upper

43 100

74 23.4 19.8 29.6

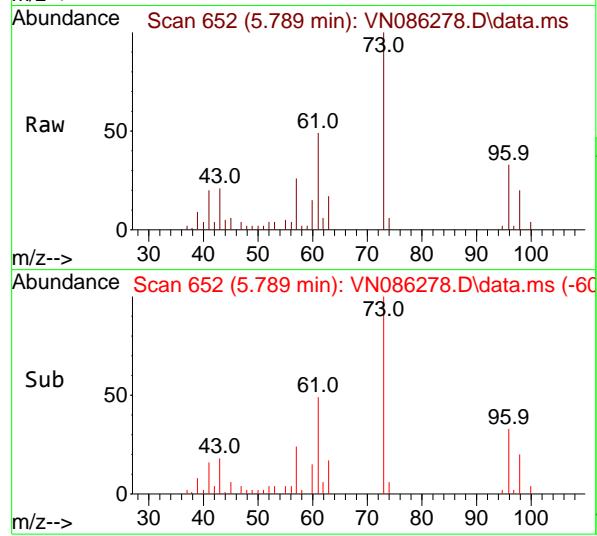




#19

Methyl tert-butyl Ether
Concen: 5.238 ug/l
RT: 5.789 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

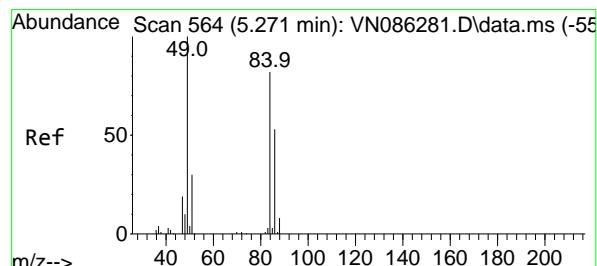
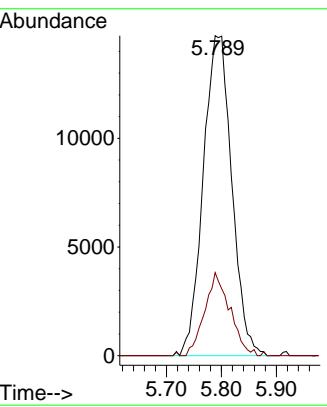
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



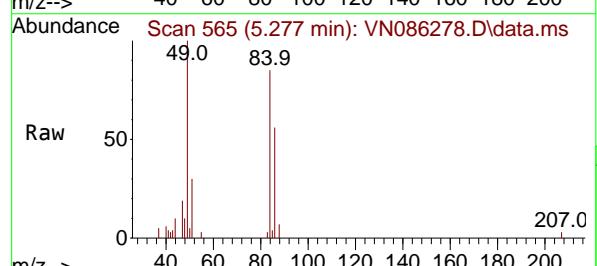
Tgt Ion: 73 Resp: 53138
Ion Ratio Lower Upper
73 100
57 26.0 17.6 26.4

Manual Integrations APPROVED

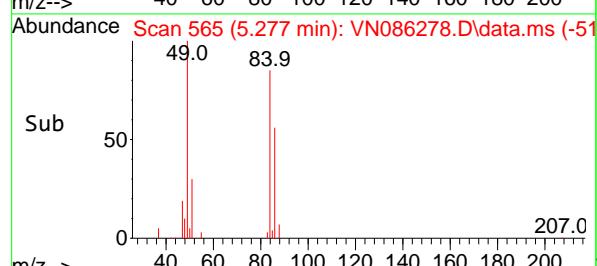
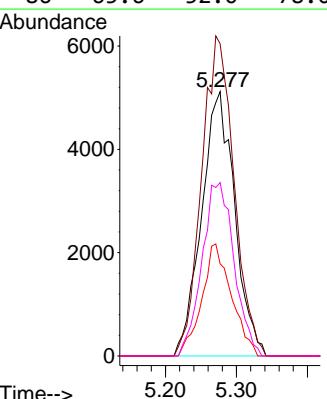
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

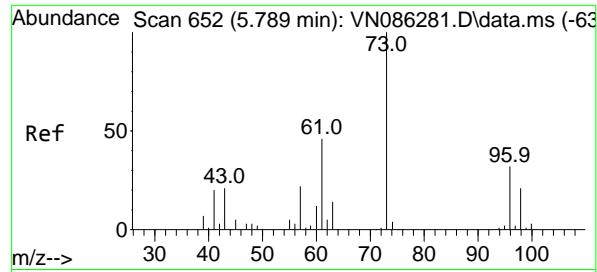


#20
Methylene Chloride
Concen: 5.270 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.006 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21



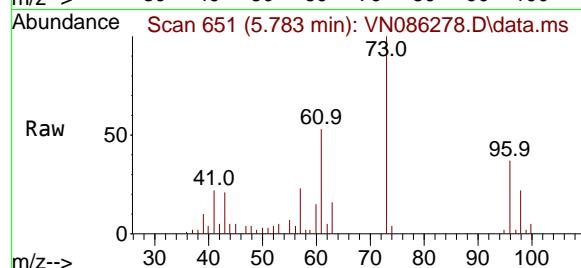
Tgt Ion: 84 Resp: 16566
Ion Ratio Lower Upper
84 100
49 118.1 98.2 147.2
51 34.9 29.8 44.6
86 65.6 52.0 78.0





#21
trans-1,2-Dichloroethene
Concen: 5.331 ug/l
RT: 5.783 min Scan# 6
Delta R.T. -0.006 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

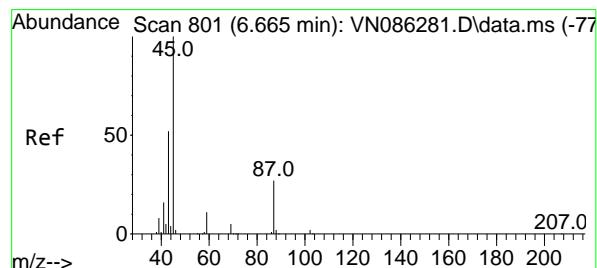
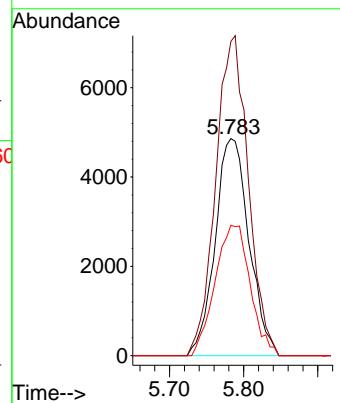
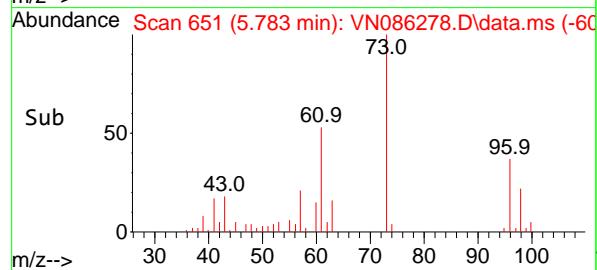
Instrument : MSVOA_N
ClientSampleId : VSTDICC005



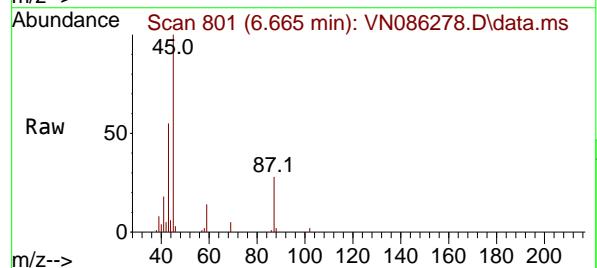
Tgt Ion: 96 Resp: 15380
Ion Ratio Lower Upper
96 100
61 144.8 114.6 171.8
98 60.1 51.2 76.8

Manual Integrations APPROVED

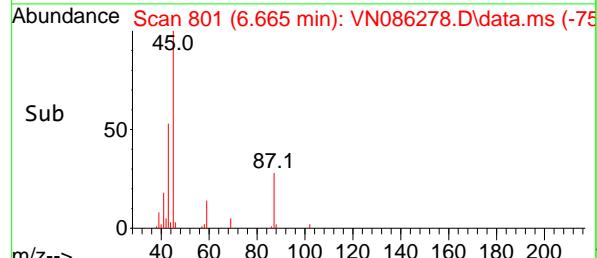
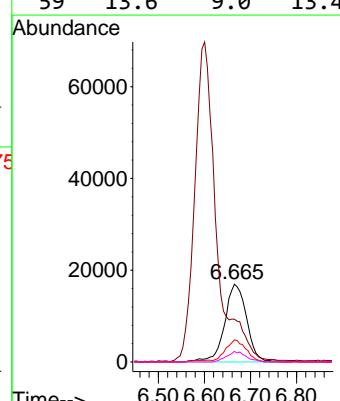
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

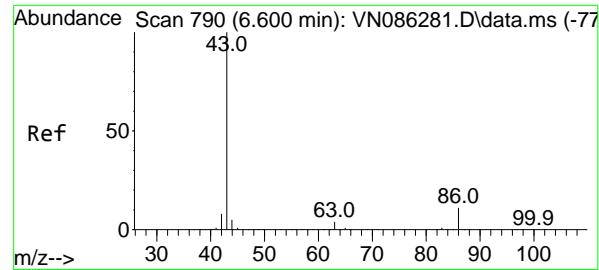


#22
Diisopropyl ether
Concen: 5.239 ug/l
RT: 6.665 min Scan# 801
Delta R.T. -0.000 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

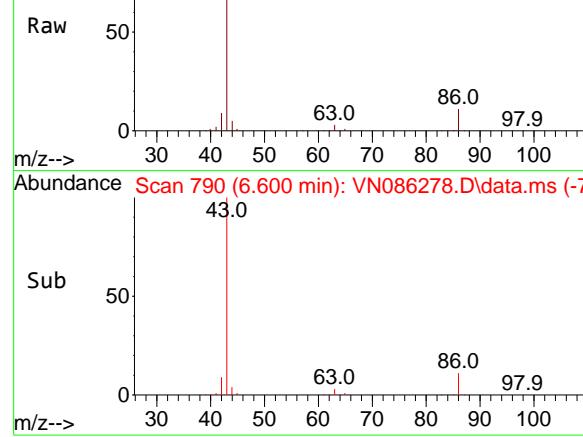


Tgt Ion: 45 Resp: 55913
Ion Ratio Lower Upper
45 100
43 52.8 41.8 62.8
87 28.4 21.6 32.4
59 13.6 9.0 13.4#

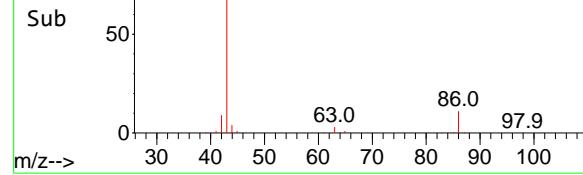




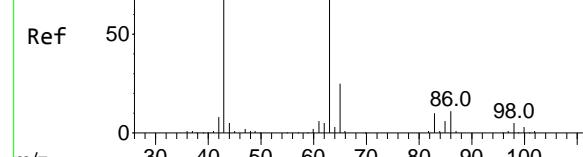
Abundance Scan 790 (6.600 min): VN086278.D\data.ms



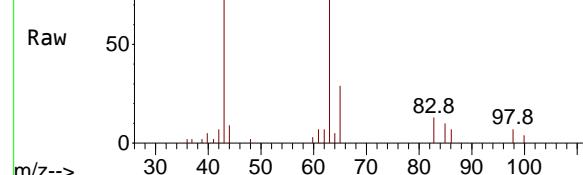
Abundance Scan 790 (6.600 min): VN086278.D\data.ms (-73)



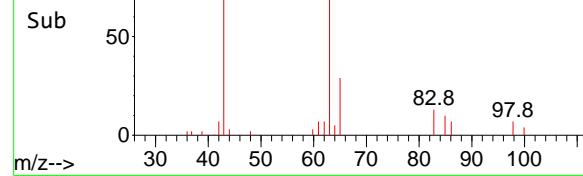
Abundance Scan 784 (6.565 min): VN086281.D\data.ms (-77)



Abundance Scan 783 (6.559 min): VN086278.D\data.ms



Abundance Scan 783 (6.559 min): VN086278.D\data.ms (-73)



#23

Vinyl Acetate

Concen: 27.614 ug/l m

RT: 6.600 min Scan# 7

Delta R.T. -0.000 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

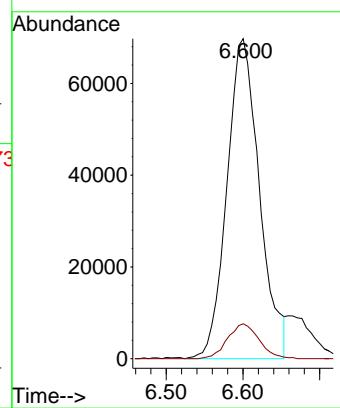
Instrument:

MSVOA_N

ClientSampleId :

VSTDICC005

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#24

1,1-Dichloroethane

Concen: 5.304 ug/l

RT: 6.559 min Scan# 783

Delta R.T. -0.006 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

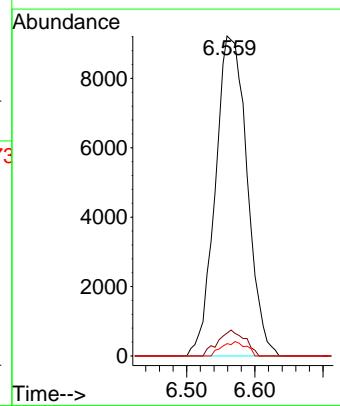
Tgt Ion: 63 Resp: 29865

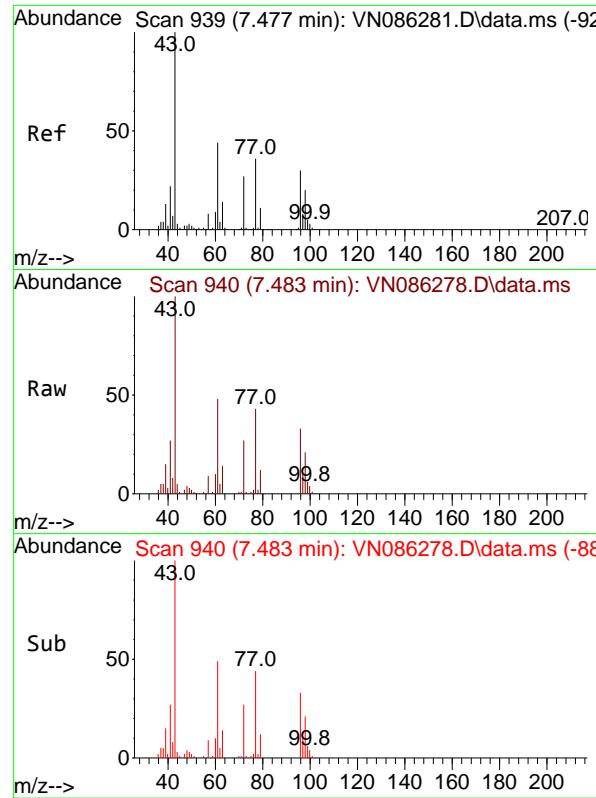
Ion Ratio Lower Upper

63 100

98 7.2 3.4 10.2

100 3.9 2.1 6.5



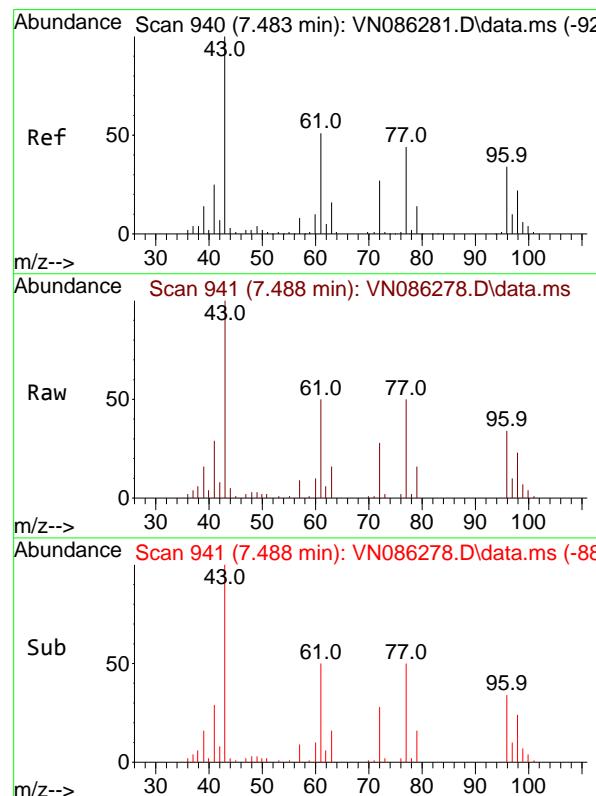
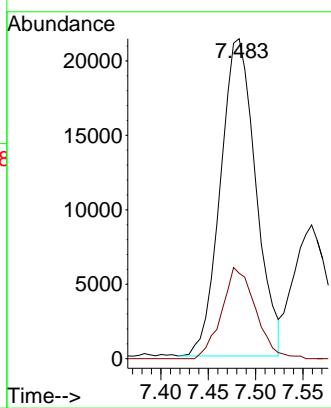


#25
2-Butanone
Concen: 26.210 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

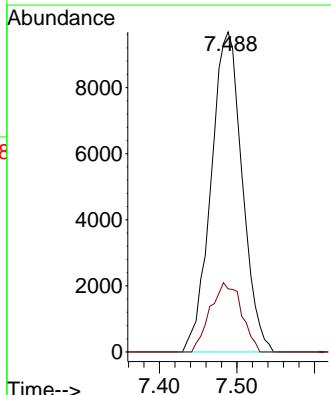
Manual Integrations APPROVED

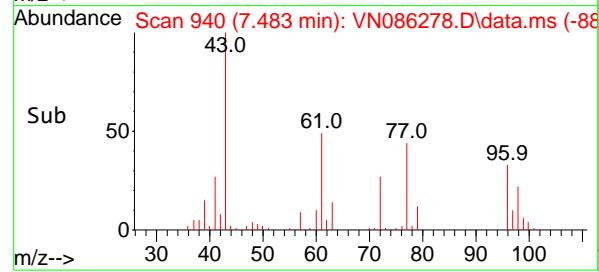
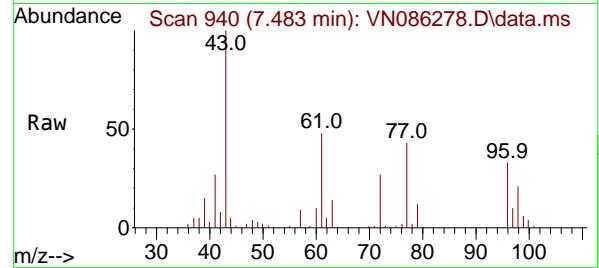
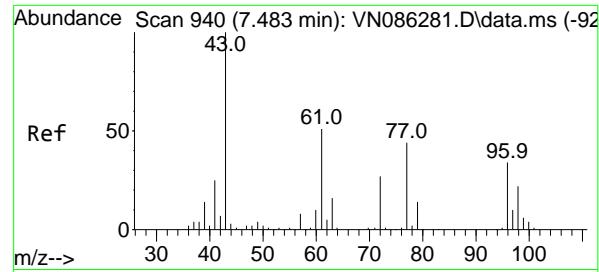
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#26
2,2-Dichloropropane
Concen: 5.365 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

Tgt Ion: 77 Resp: 27048
Ion Ratio Lower Upper
77 100
97 21.7 11.2 33.5





#27

cis-1,2-Dichloroethene

Concen: 5.301 ug/l

RT: 7.483 min Scan# 9

Delta R.T. -0.000 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

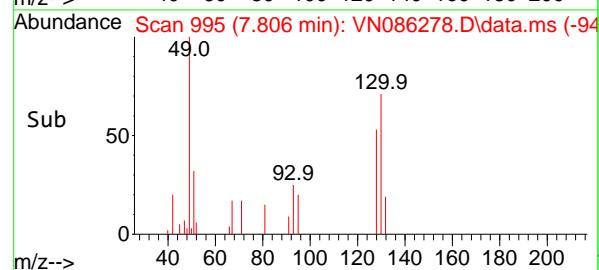
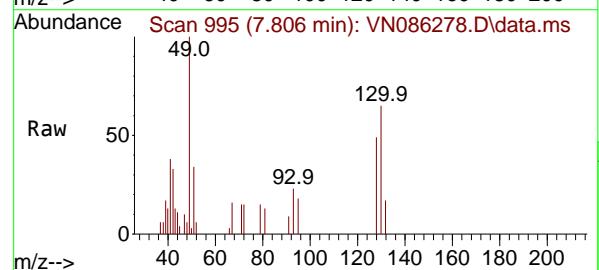
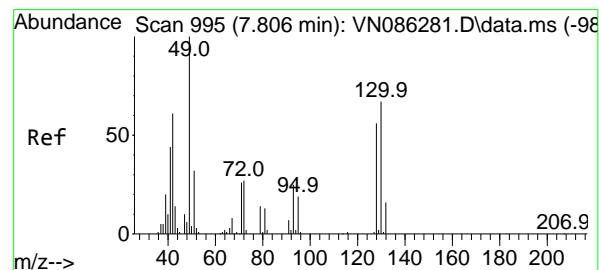
Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#28

Bromochloromethane

Concen: 5.967 ug/l

RT: 7.806 min Scan# 995

Delta R.T. -0.000 min

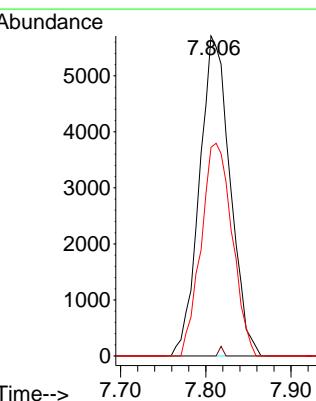
Lab File: VN086278.D

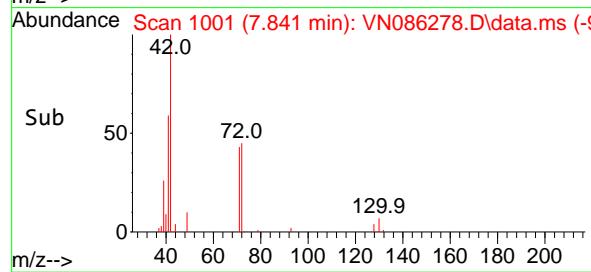
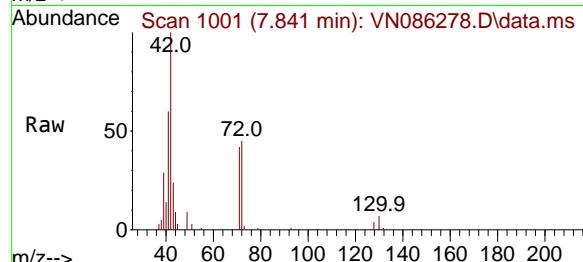
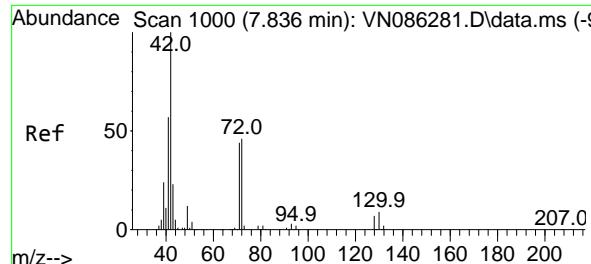
Acq: 15 Apr 2025 12:21

Tgt Ion: 49 Resp: 14246

Ion Ratio Lower Upper

| | | | |
|-----|------|------|------|
| 49 | 100 | | |
| 129 | 0.4 | 0.0 | 3.4 |
| 130 | 67.3 | 57.1 | 85.7 |





#29

Tetrahydrofuran

Concen: 26.453 ug/l

RT: 7.841 min Scan# 1001

Delta R.T. 0.006 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

Instrument:

MSVOA_N

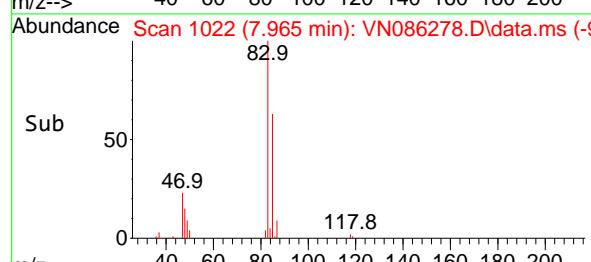
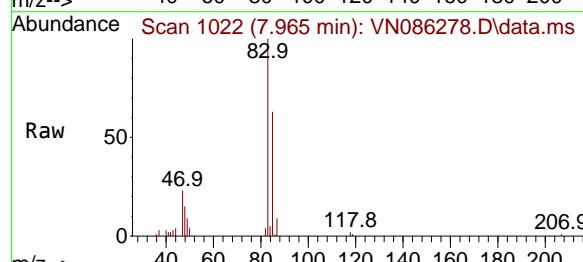
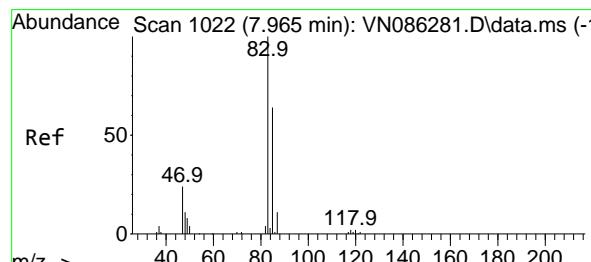
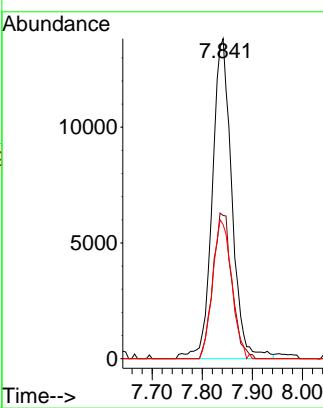
ClientSampleId :

VSTDICC005

| Tgt | Ion: | 42 | Resp: | 3743 |
|-----|-------|-------|-------|------|
| Ion | Ratio | Lower | Upper | |
| 42 | 100 | | | |
| 72 | 44.3 | 36.2 | 54.4 | |
| 71 | 42.1 | 34.0 | 51.0 | |

Manual Integrations APPROVED

Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#30

Chloroform

Concen: 5.225 ug/l

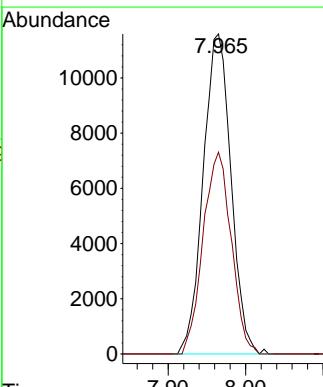
RT: 7.965 min Scan# 1022

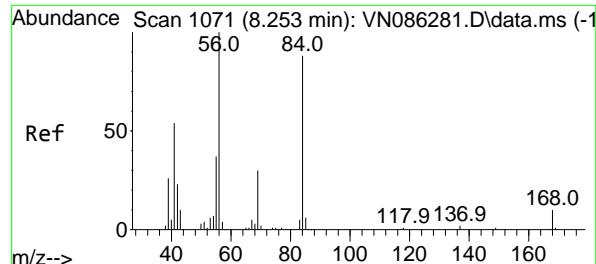
Delta R.T. -0.000 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

| Tgt | Ion: | 83 | Resp: | 28901 |
|-----|-------|-------|-------|-------|
| Ion | Ratio | Lower | Upper | |
| 83 | 100 | | | |
| 85 | 63.0 | 51.5 | 77.3 | |





#31

Cyclohexane

Concen: 6.122 ug/l

RT: 8.253 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086278.D

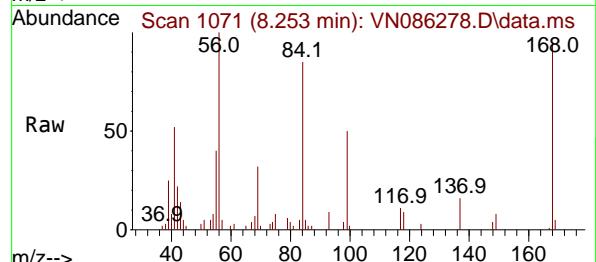
Acq: 15 Apr 2025 12:21

Instrument :

MSVOA_N

ClientSampleId :

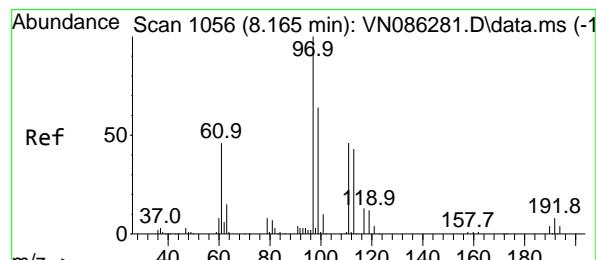
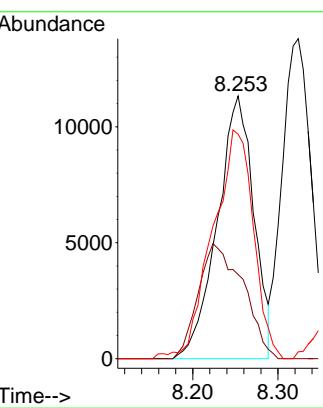
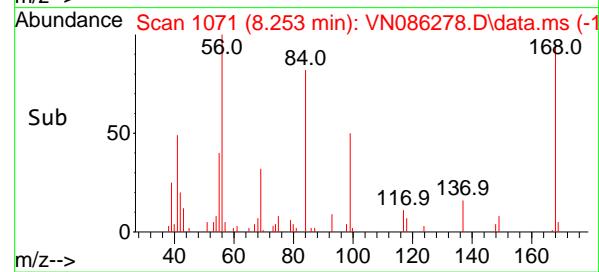
VSTDICC005



| Tgt | Ion: | 56 | Ion Ratio | 100 | Resp: | 33730 |
|-----|------|----|-----------|------|-------|-------|
| | | 69 | | 32.0 | Lower | 24.2 |
| | | 84 | | 83.8 | Upper | 36.2 |

Manual Integrations APPROVED

Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#32

1,1,1-Trichloroethane

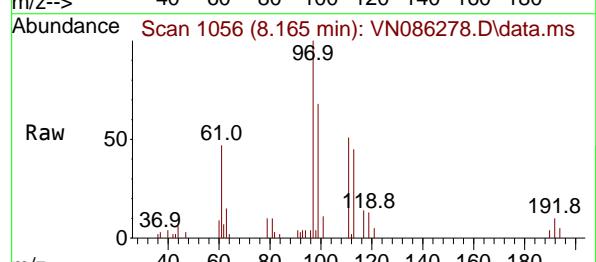
Concen: 5.365 ug/l

RT: 8.165 min Scan# 1056

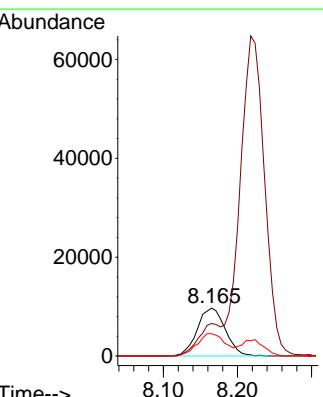
Delta R.T. -0.000 min

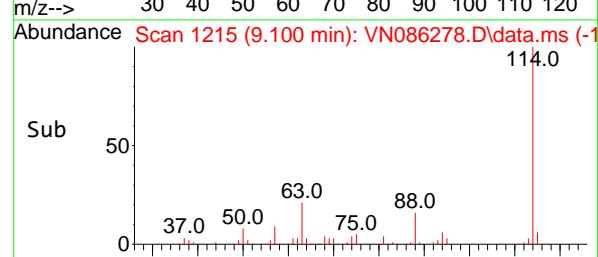
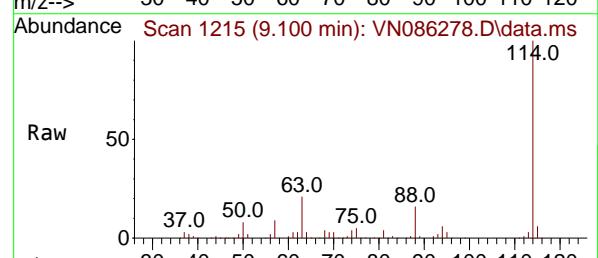
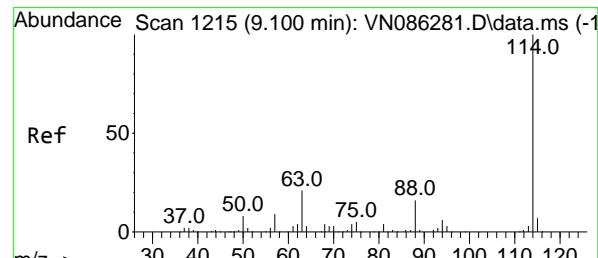
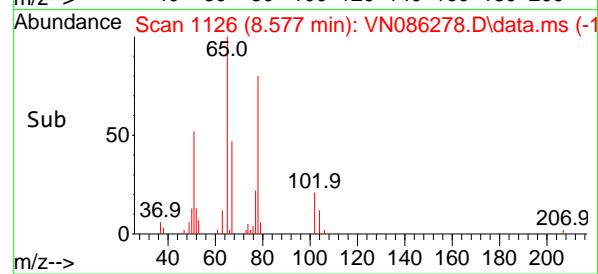
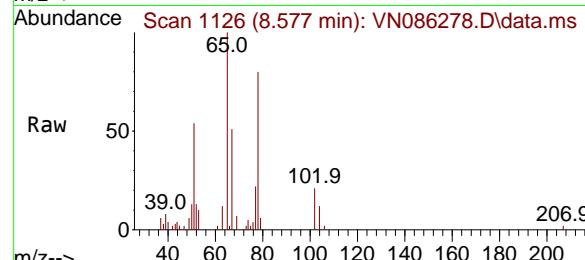
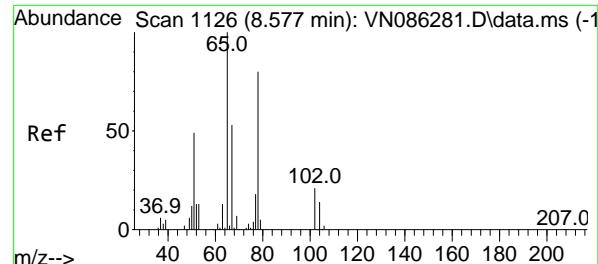
Lab File: VN086278.D

Acq: 15 Apr 2025 12:21



| Tgt | Ion: | 97 | Ion Ratio | 100 | Resp: | 25387 |
|-----|------|----|-----------|------|-------|-------|
| | | 99 | | 53.1 | Lower | 52.7 |
| | | 61 | | 46.2 | Upper | 59.3 |





#33

1,2-Dichloroethane-d4

Concen: 5.143 ug/l

RT: 8.577 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

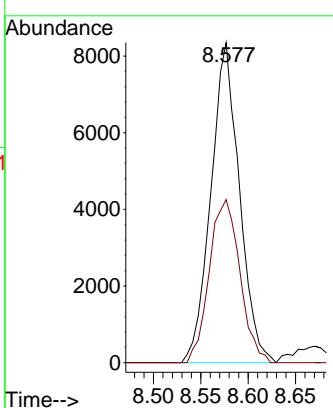
Instrument:

MSVOA_N

ClientSampleId :

VSTDICC005

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

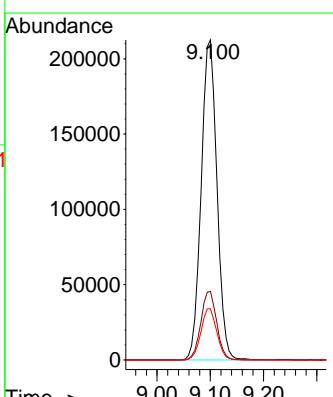
Tgt Ion:114 Resp: 436245

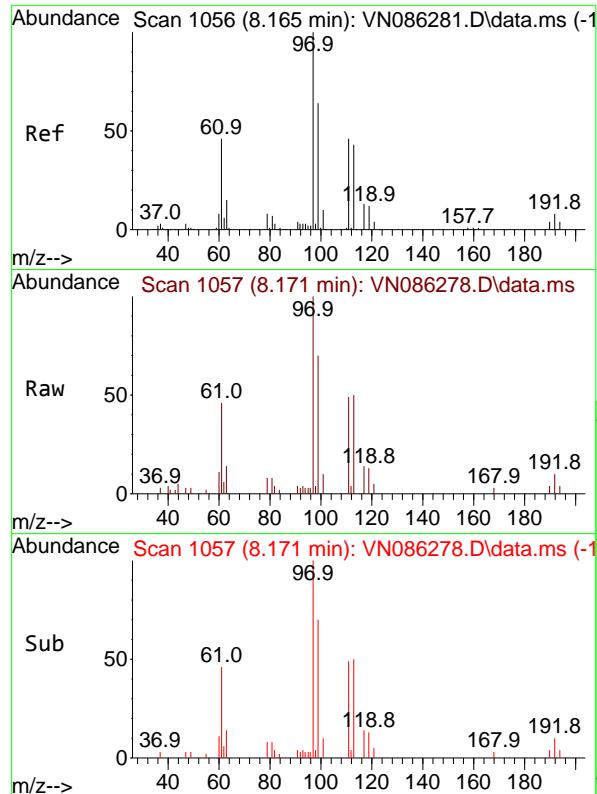
Ion Ratio Lower Upper

114 100

63 21.4 0.0 42.6

88 16.0 0.0 31.8



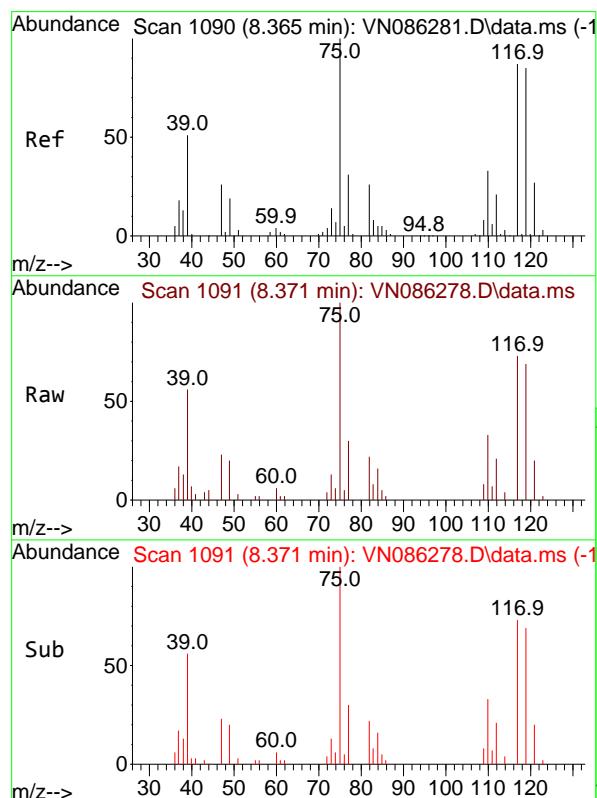
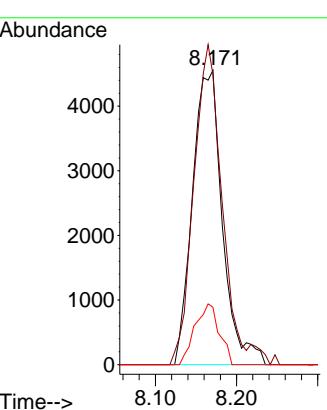


#35
Dibromofluoromethane
Concen: 5.759 ug/l
RT: 8.171 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

Instrument : MSVOA_N
ClientSampleId : VSTDICC005

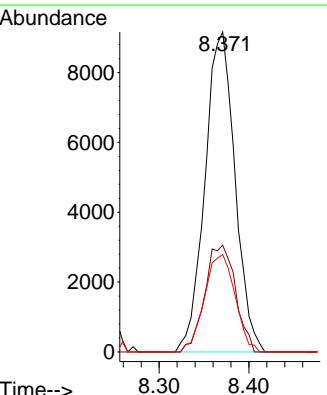
Manual Integrations
APPROVED

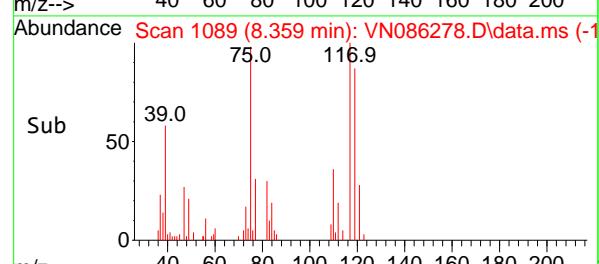
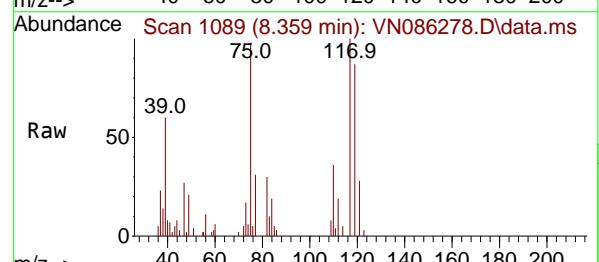
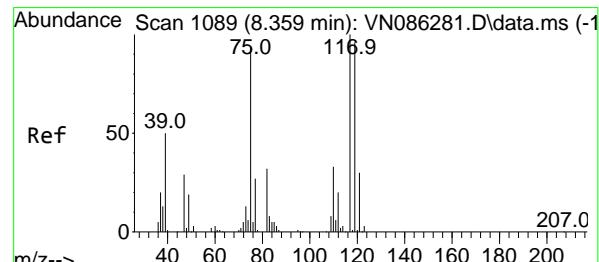
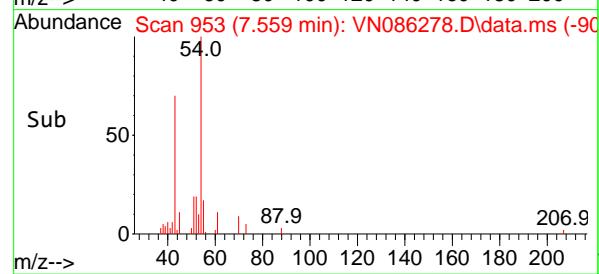
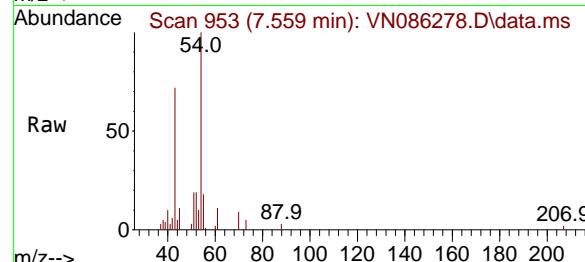
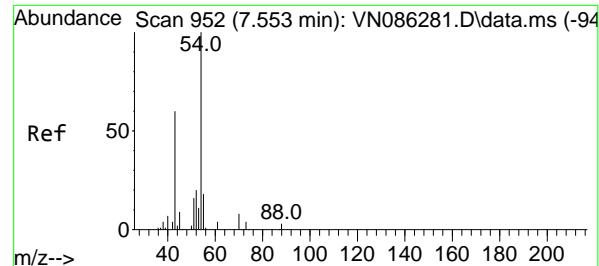
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#36
1,1-Dichloropropene
Concen: 5.270 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. 0.006 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

Tgt Ion: 75 Resp: 21310
Ion Ratio Lower Upper
75 100
110 34.0 16.8 50.4
77 31.0 24.9 37.3





#37

Ethyl Acetate

Concen: 5.216 ug/l

RT: 7.559 min Scan# 9

Delta R.T. 0.006 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

Instrument:

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 43 Resp: 22200

Ion Ratio Lower Upper

43 100

61 14.5 11.1 16.7

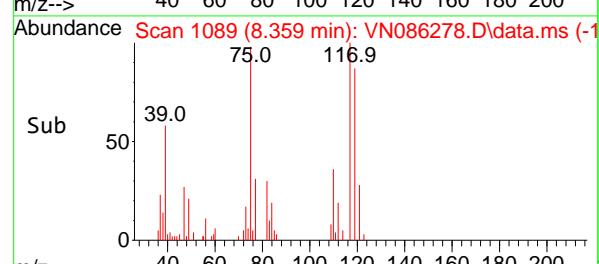
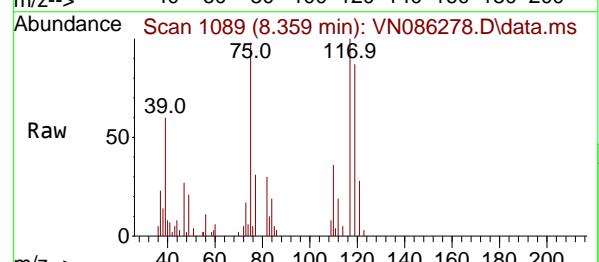
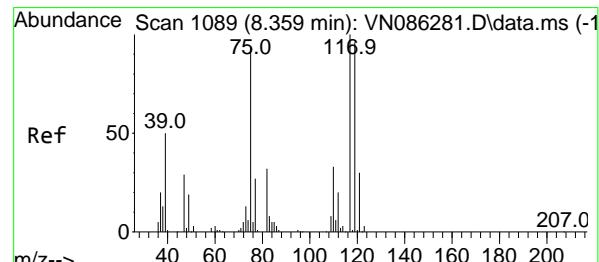
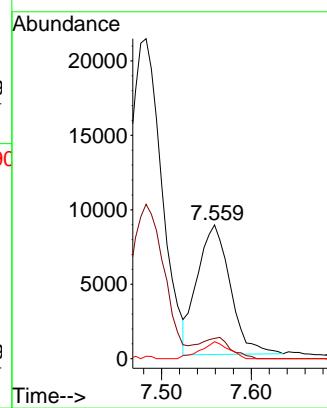
70 11.0 9.2 13.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#38

Carbon Tetrachloride

Concen: 5.335 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. -0.000 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

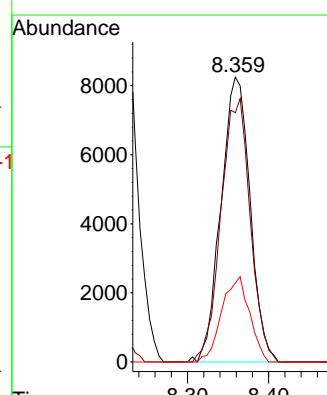
Tgt Ion:117 Resp: 20544

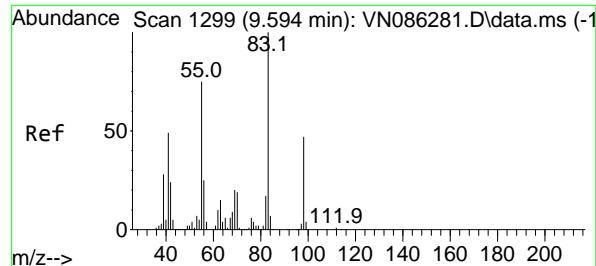
Ion Ratio Lower Upper

117 100

119 87.5 76.8 115.2

121 27.7 23.8 35.8





#39

Methylcyclohexane

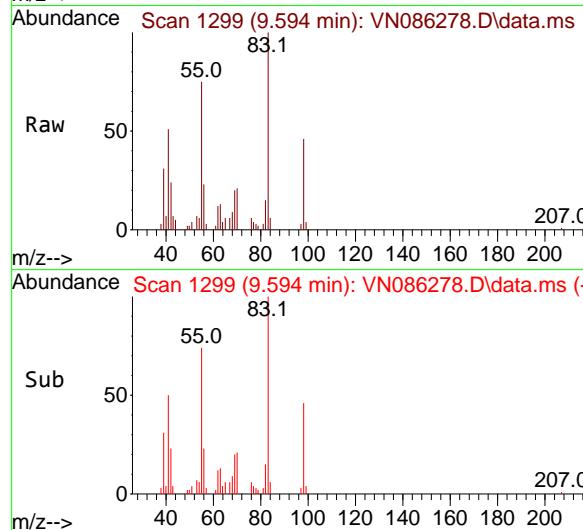
Concen: 5.251 ug/l

RT: 9.594 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21



Tgt Ion: 83 Resp: 2524

Ion Ratio Lower Upper

83 100

55 75.4 59.8 89.8

98 46.3 37.9 56.9

Instrument :

MSVOA_N

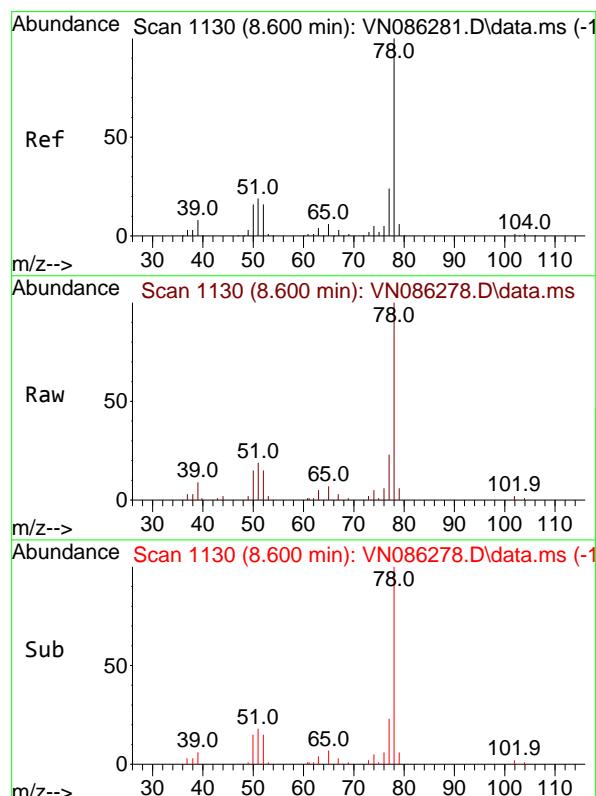
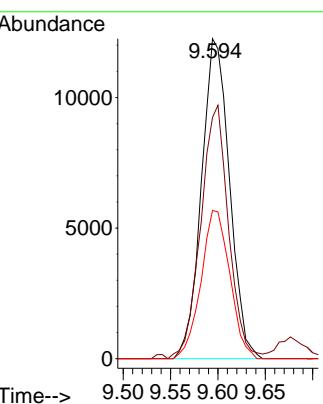
ClientSampleId :

VSTDICC005

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#40

Benzene

Concen: 5.202 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN086278.D

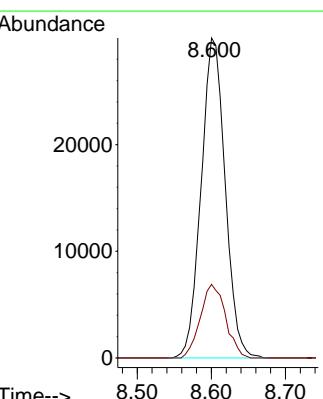
Acq: 15 Apr 2025 12:21

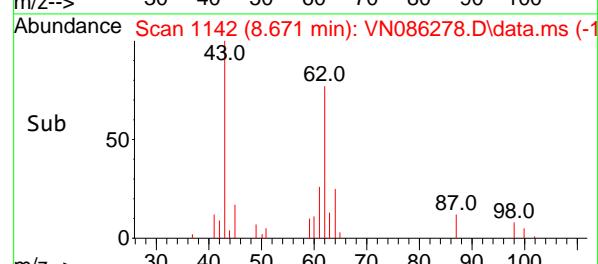
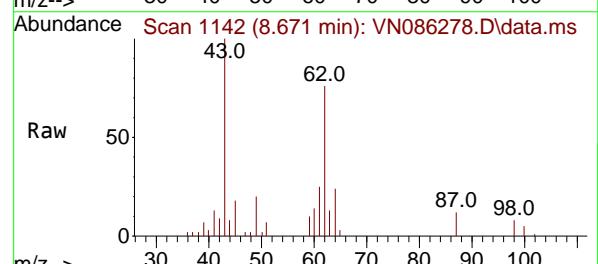
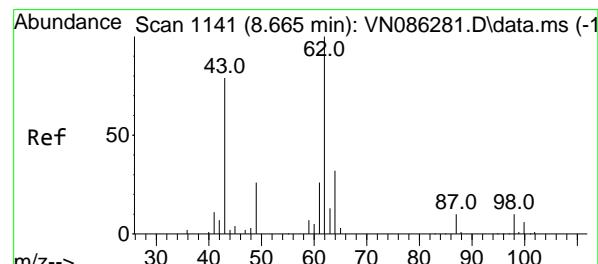
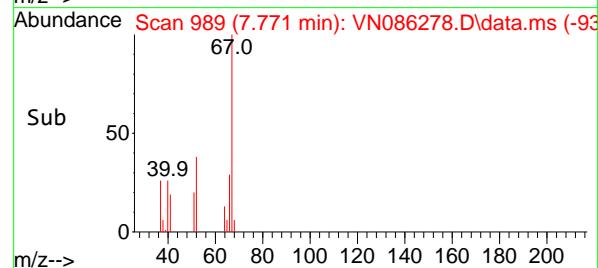
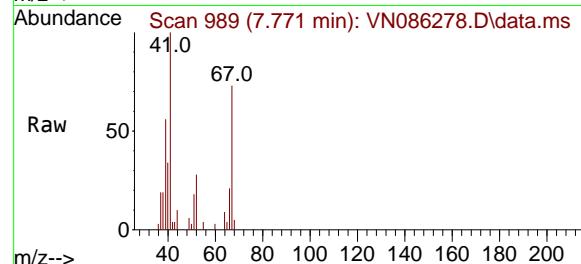
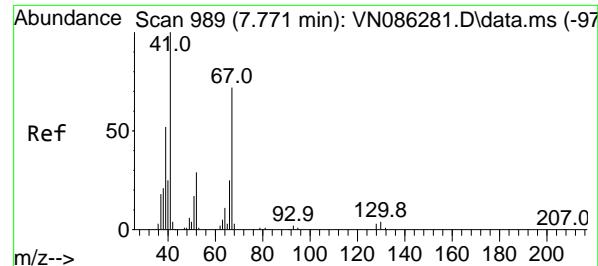
Tgt Ion: 78 Resp: 67406

Ion Ratio Lower Upper

78 100

77 23.0 19.4 29.2





#41

Methacrylonitrile

Concen: 5.047 ug/l

RT: 7.771 min Scan# 9

Delta R.T. -0.000 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

Instrument:

MSVOA_N

ClientSampleId :

VSTDICC005

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025

Tgt Ion: 41 Resp: 12454

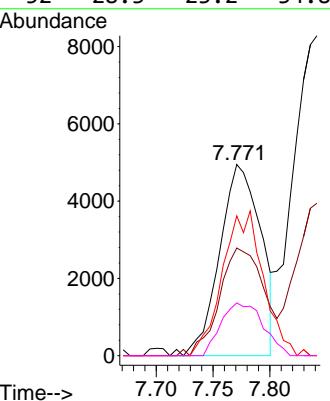
Ion Ratio Lower Upper

41 100

39 61.1 43.0 64.4

67 75.0 58.8 88.2

52 28.3 23.2 34.8



#42

1,2-Dichloroethane

Concen: 5.237 ug/l

RT: 8.671 min Scan# 1142

Delta R.T. 0.006 min

Lab File: VN086278.D

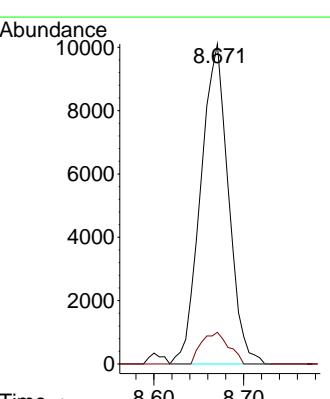
Acq: 15 Apr 2025 12:21

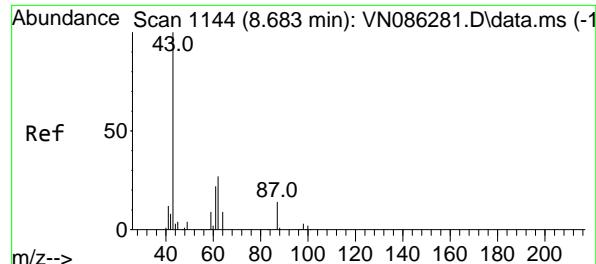
Tgt Ion: 62 Resp: 21638

Ion Ratio Lower Upper

62 100

98 9.7 0.0 19.2





#43

Isopropyl Acetate

Concen: 5.444 ug/l

RT: 8.682 min Scan# 1

Delta R.T. -0.001 min

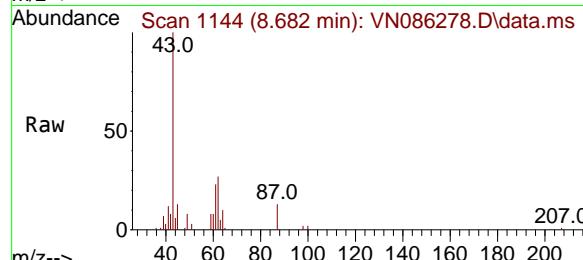
Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

Instrument : MSVOA_N

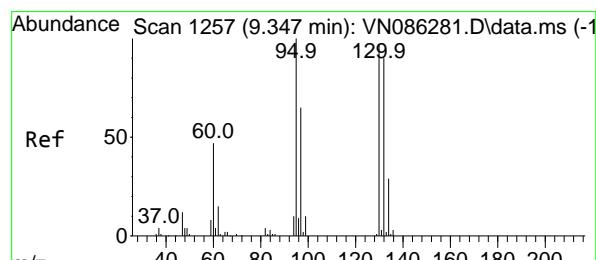
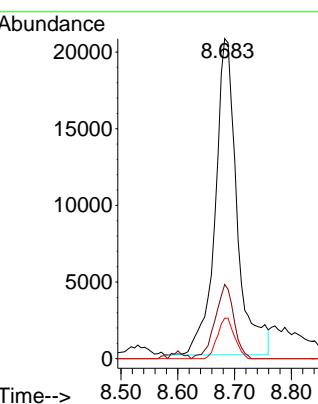
ClientSampleId :

VSTDICC005

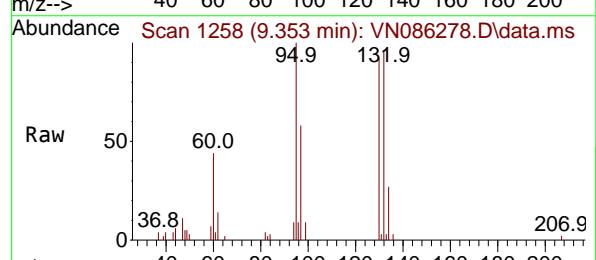


Tgt Ion: 43 Resp: 5510
 Ion Ratio Lower Upper
 43 100
 61 20.2 20.5 30.7
 87 10.1 10.5 15.7

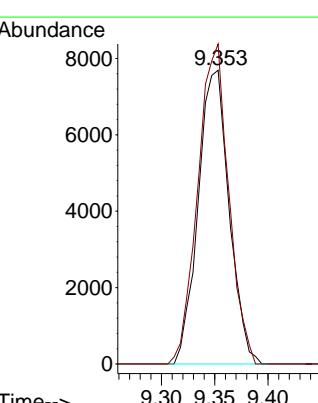
**Manual Integrations
APPROVED**

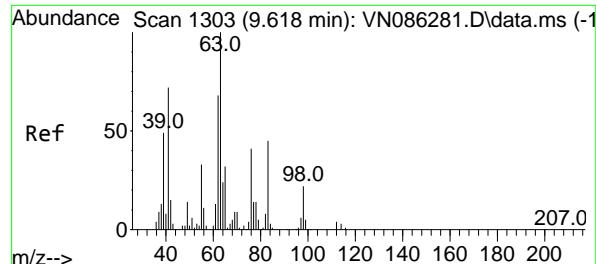
 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#44
 Trichloroethene
 Concen: 5.067 ug/l
 RT: 9.353 min Scan# 1258
 Delta R.T. 0.006 min
 Lab File: VN086278.D
 Acq: 15 Apr 2025 12:21



Tgt Ion: 130 Resp: 15562
 Ion Ratio Lower Upper
 130 100
 95 108.9 0.0 207.2





#45

1,2-Dichloropropane

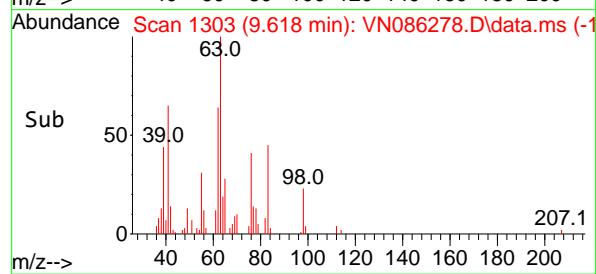
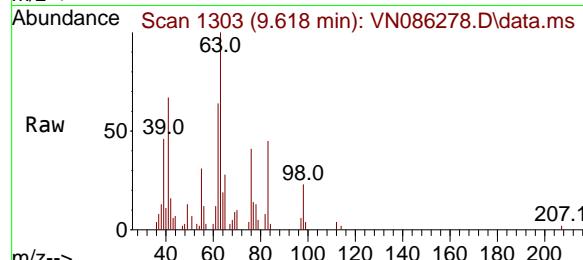
Concen: 5.272 ug/l

RT: 9.618 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21



Tgt Ion: 63 Resp: 16719

Ion Ratio Lower Upper

63 100

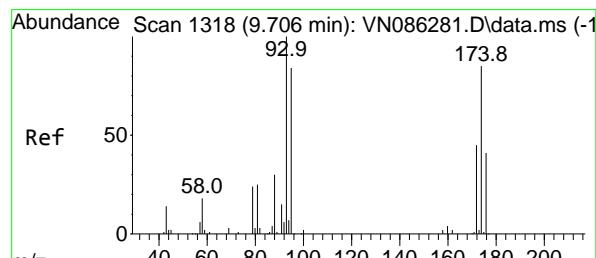
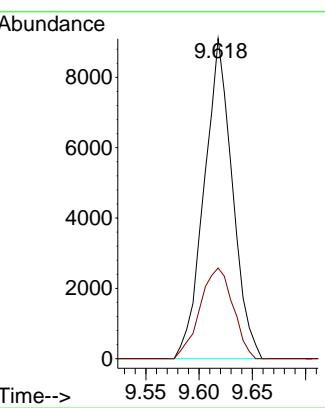
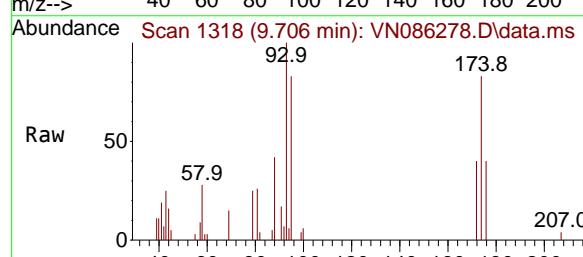
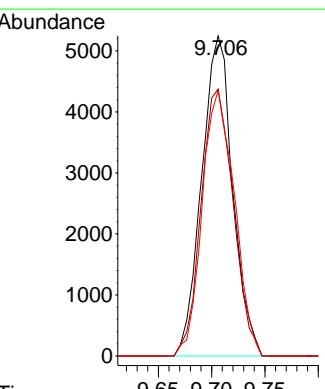
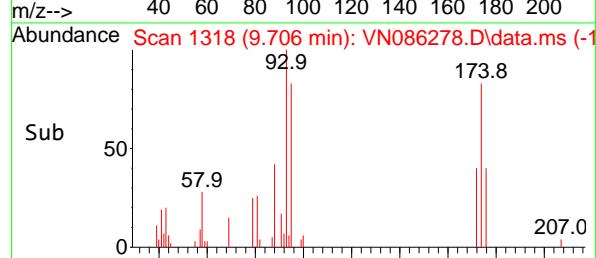
65 28.4 25.4 38.2

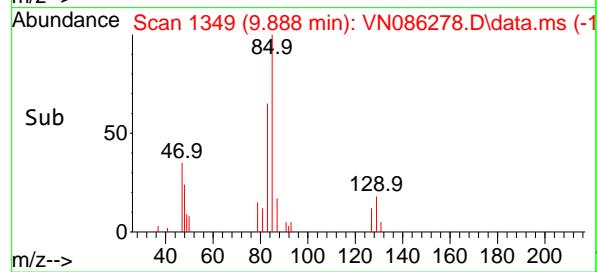
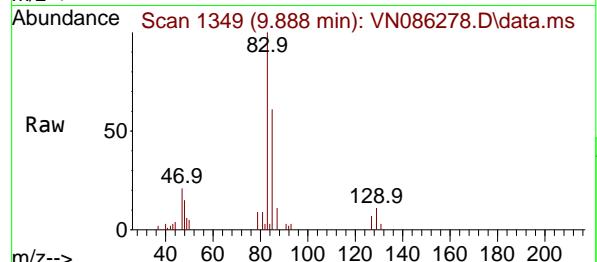
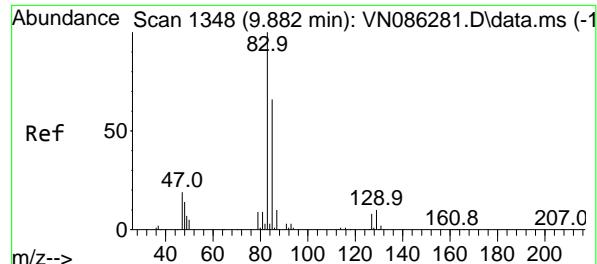
Instrument:

MSVOA_N

ClientSampleId :

VSTDICC005

**Manual Integrations
APPROVED**
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025#46
Dibromomethane
Concen: 5.262 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. -0.000 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21Tgt Ion: 93 Resp: 10633
Ion Ratio Lower Upper
93 100
95 86.1 66.2 99.4
174 86.0 67.8 101.6



#47

Bromodichloromethane

Concen: 5.297 ug/l

RT: 9.888 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

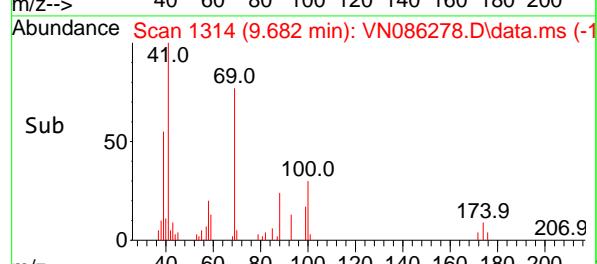
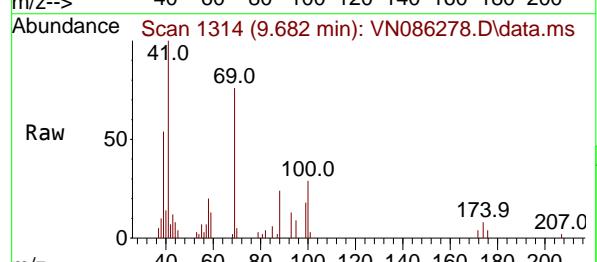
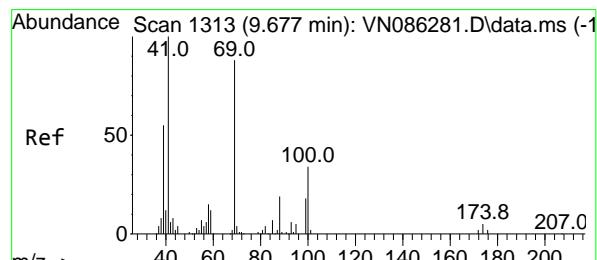
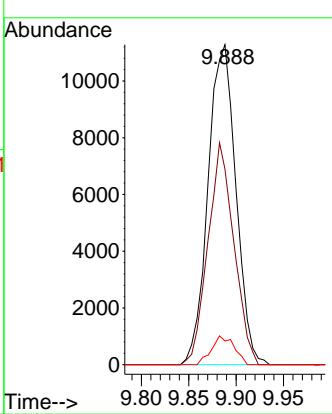
Instrument:

MSVOA_N

ClientSampleId :

VSTDICC005

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#48

Methyl methacrylate

Concen: 5.087 ug/l

RT: 9.682 min Scan# 1314

Delta R.T. 0.006 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

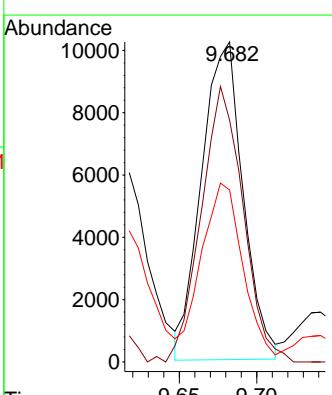
Tgt Ion: 41 Resp: 19018

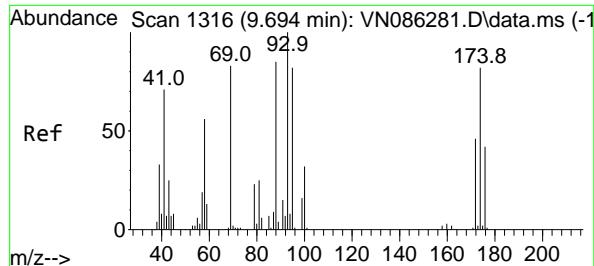
Ion Ratio Lower Upper

41 100

69 87.2 68.2 102.2

39 57.1 45.2 67.8





#49

1,4-Dioxane

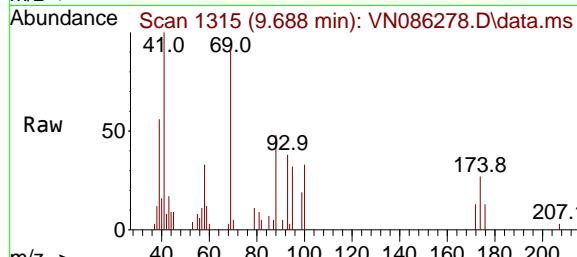
Concen: 105.699 ug/l

RT: 9.688 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21



Tgt Ion: 88 Resp: 672

Ion Ratio Lower Upper

88 100

43 28.2 23.8 35.8

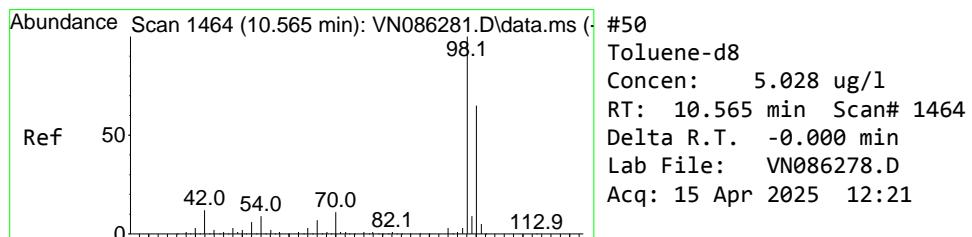
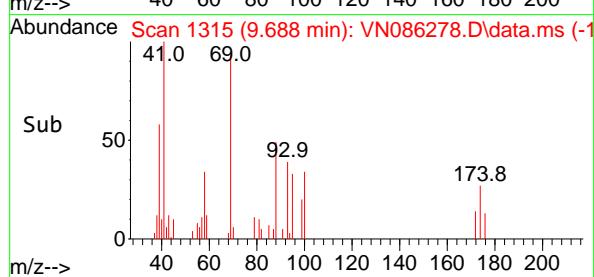
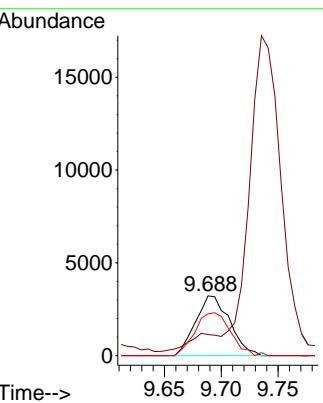
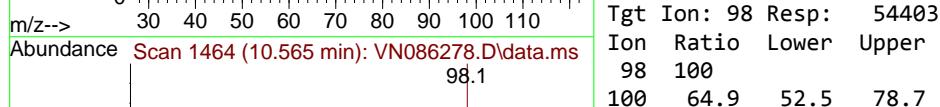
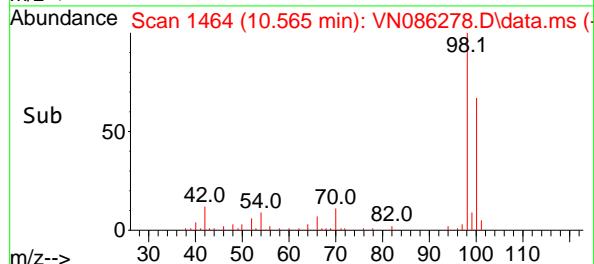
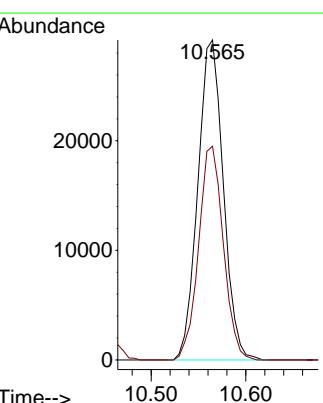
58 74.9 57.4 86.2

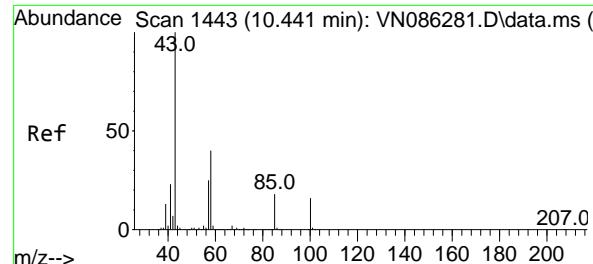
Instrument :

MSVOA_N

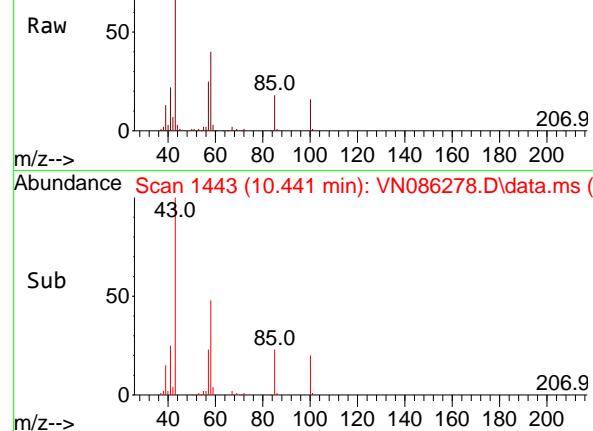
ClientSampleId :

VSTDICC005

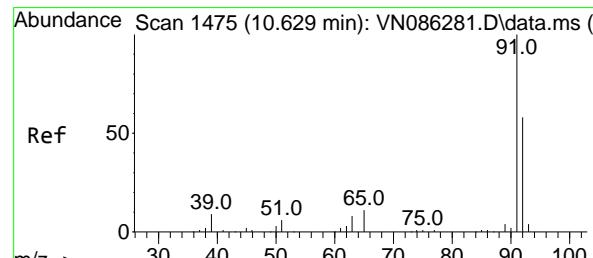
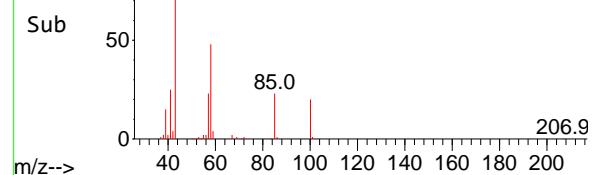
**Manual Integrations
APPROVED**
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025#50
Toluene-d8
Concen: 5.028 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21Tgt Ion: 98 Resp: 54403
Ion Ratio Lower Upper
98 100
100 64.9 52.5 78.7



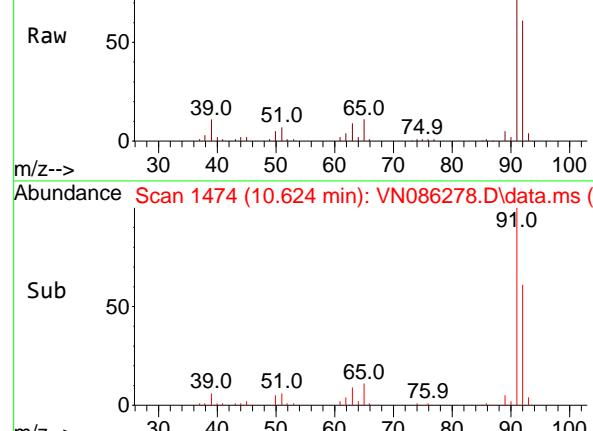
Abundance Scan 1443 (10.441 min): VN086278.D\data.ms (-)



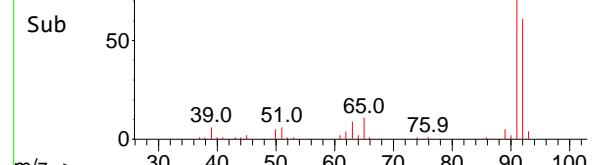
Abundance Scan 1443 (10.441 min): VN086278.D\data.ms (-)



Abundance Scan 1474 (10.624 min): VN086278.D\data.ms (-)



Abundance Scan 1474 (10.624 min): VN086278.D\data.ms (-)



#51

4-Methyl-2-Pentanone

Concen: 26.097 ug/l

RT: 10.441 min Scan# 1443

Delta R.T. -0.000 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

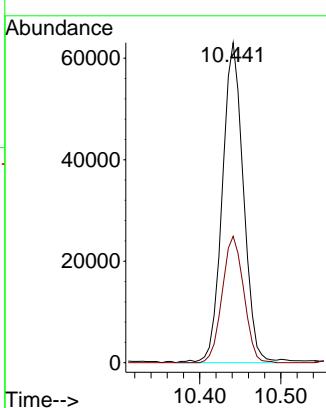
Instrument :

MSVOA_N

ClientSampleId :

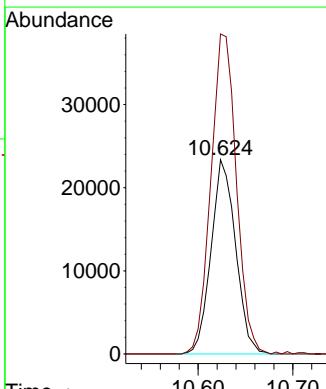
VSTDICC005

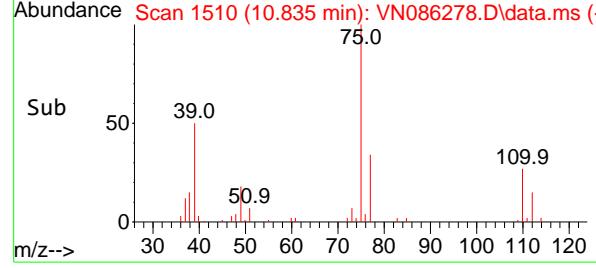
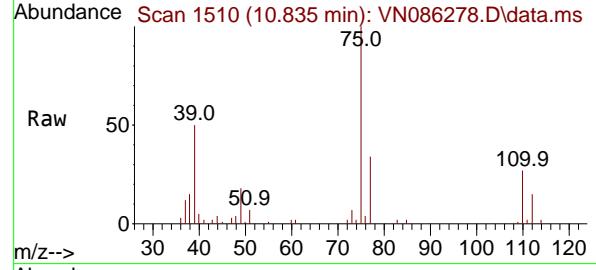
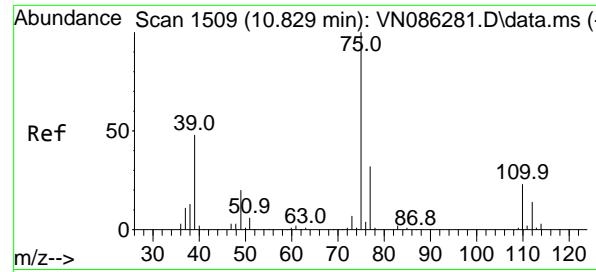
**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#52
Toluene
Concen: 5.199 ug/l
RT: 10.624 min Scan# 1474
Delta R.T. -0.006 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

Tgt Ion: 92 Resp: 42032
Ion Ratio Lower Upper
92 100
91 171.2 137.3 205.9



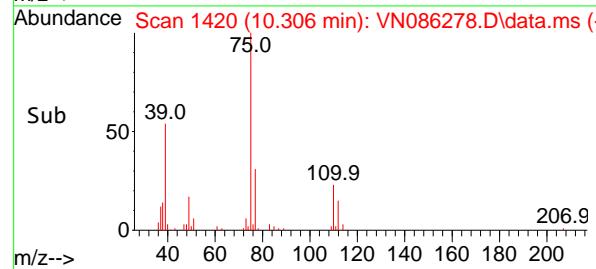
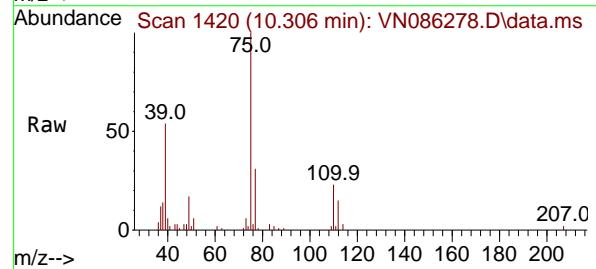
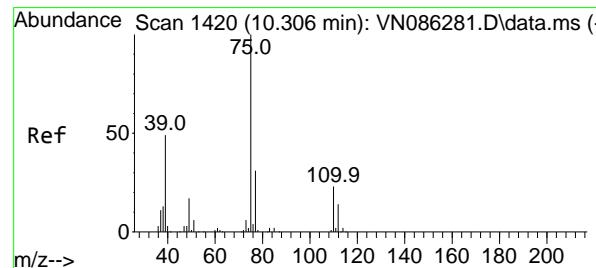
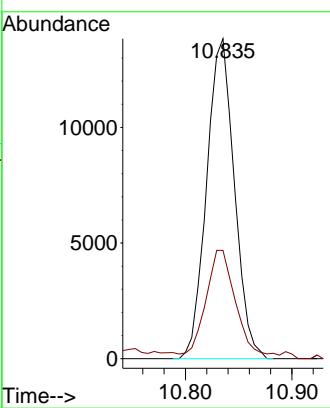


#53
t-1,3-Dichloropropene
Concen: 5.136 ug/l
RT: 10.835 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

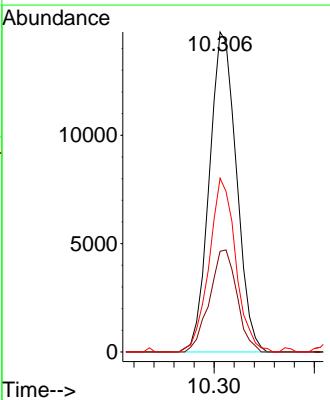
Manual Integrations APPROVED

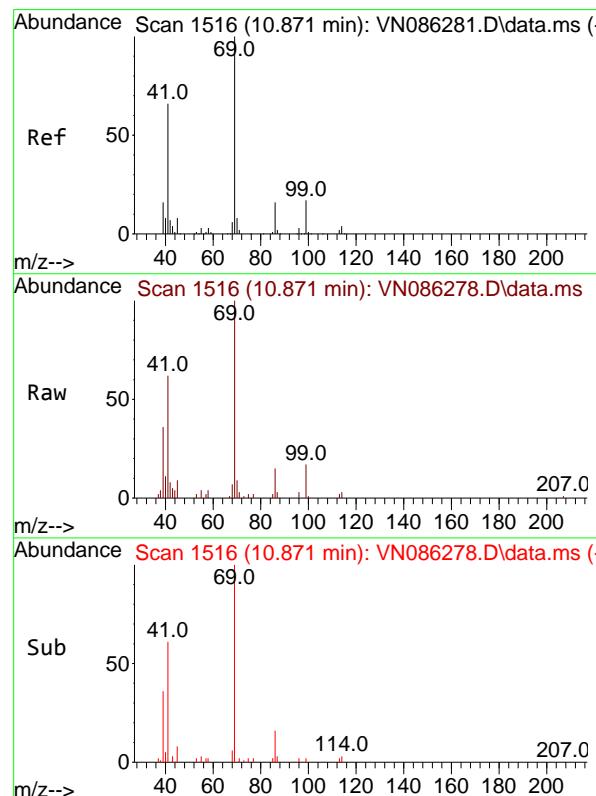
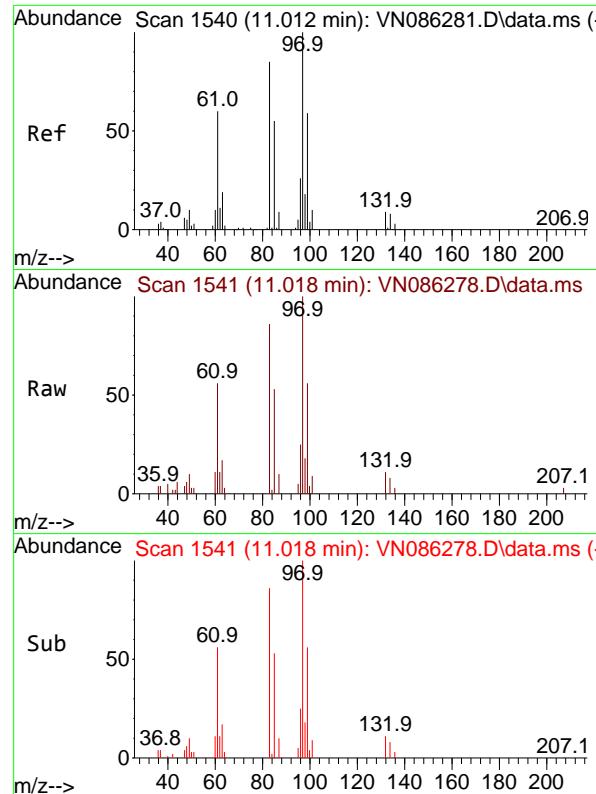
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#54
cis-1,3-Dichloropropene
Concen: 5.183 ug/l
RT: 10.306 min Scan# 1420
Delta R.T. -0.000 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

Tgt Ion: 75 Resp: 27737
Ion Ratio Lower Upper
75 100
77 31.4 25.2 37.8
39 54.3 39.3 58.9





#55

1,1,2-Trichloroethane

Concen: 5.349 ug/l

RT: 11.018 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

Instrument :

MSVOA_N

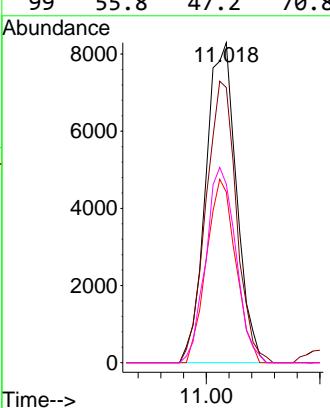
ClientSampleId :

VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#56

Ethyl methacrylate

Concen: 5.256 ug/l

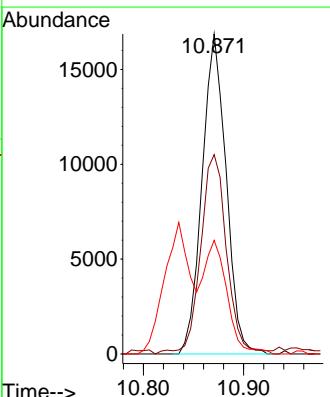
RT: 10.871 min Scan# 1516

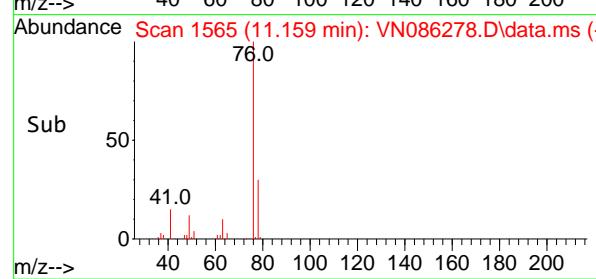
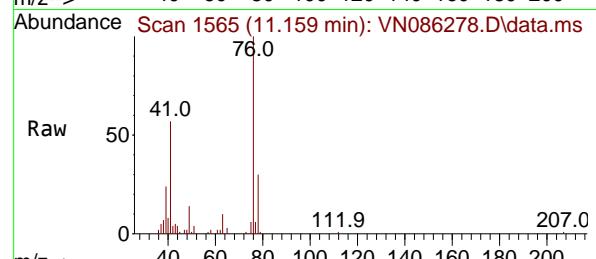
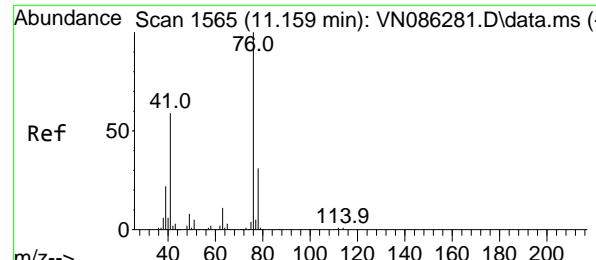
Delta R.T. -0.000 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

| Tgt | Ion | Resp: | 28102 |
|-----|-------|-------|-------|
| Ion | Ratio | Lower | Upper |
| 69 | 100 | | |
| 41 | 67.2 | 51.7 | 77.5 |
| 39 | 34.8 | 26.3 | 39.5 |





#57

1,3-Dichloropropane

Concen: 5.213 ug/l

RT: 11.159 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

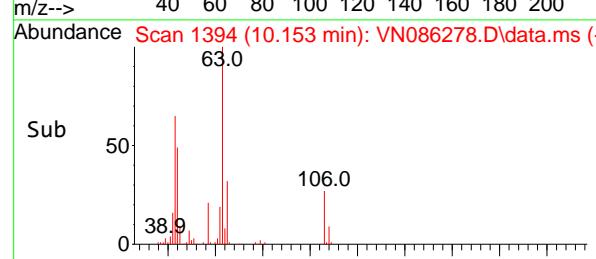
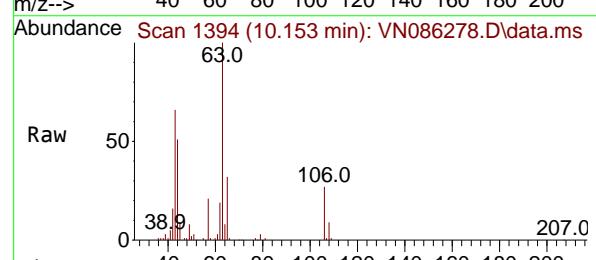
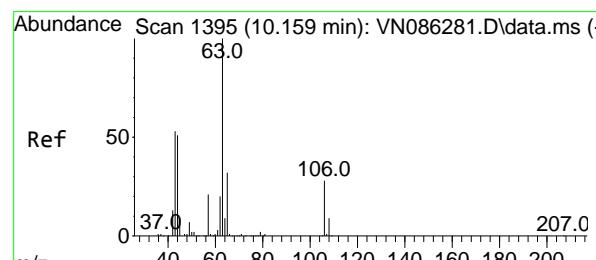
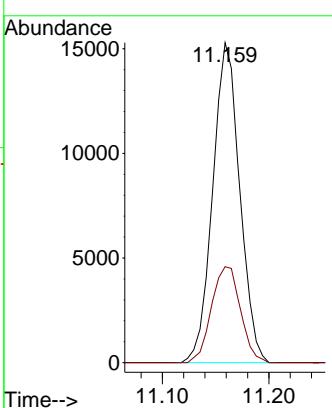
Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#58

2-Chloroethyl Vinyl ether

Concen: 30.387 ug/l

RT: 10.153 min Scan# 1394

Delta R.T. -0.006 min

Lab File: VN086278.D

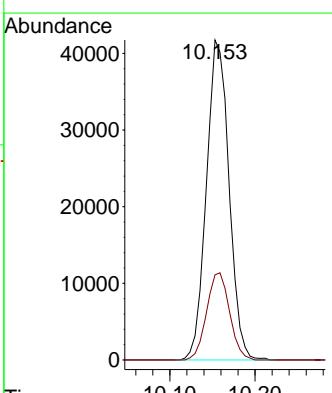
Acq: 15 Apr 2025 12:21

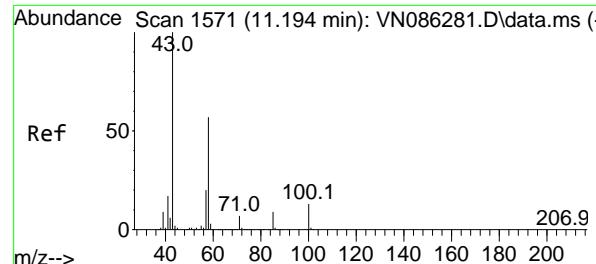
Tgt Ion: 63 Resp: 77113

Ion Ratio Lower Upper

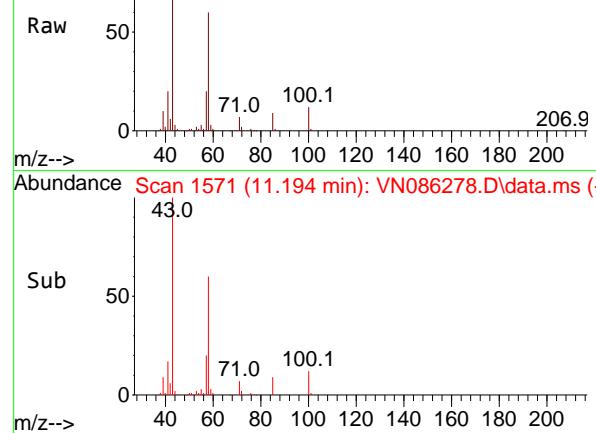
63 100

106 27.6 22.2 33.2

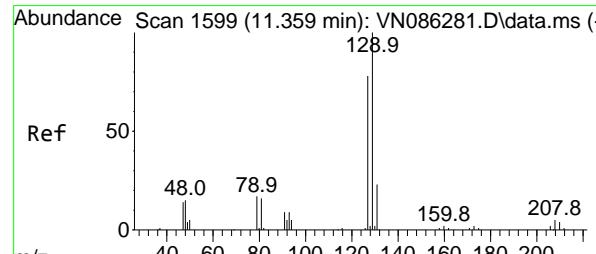
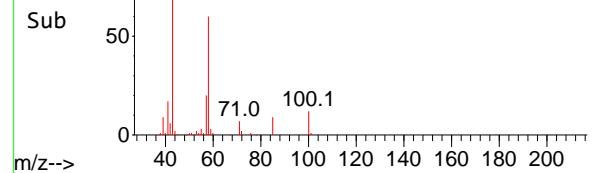




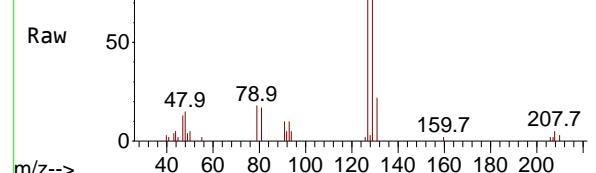
Abundance Scan 1571 (11.194 min): VN086278.D\data.ms



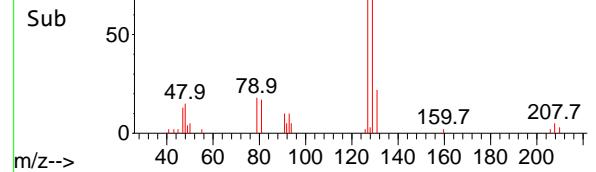
Abundance Scan 1571 (11.194 min): VN086278.D\data.ms (-)



Abundance Scan 1599 (11.359 min): VN086278.D\data.ms



Abundance Scan 1599 (11.359 min): VN086278.D\data.ms (-)



#59

2-Hexanone

Concen: 26.113 ug/l

RT: 11.194 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 43 Resp: 8444

Ion Ratio Lower Upper

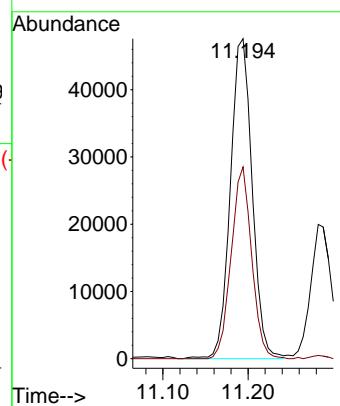
43 100

58 56.3 28.3 85.0

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#60

Dibromochloromethane

Concen: 5.201 ug/l

RT: 11.359 min Scan# 1599

Delta R.T. -0.000 min

Lab File: VN086278.D

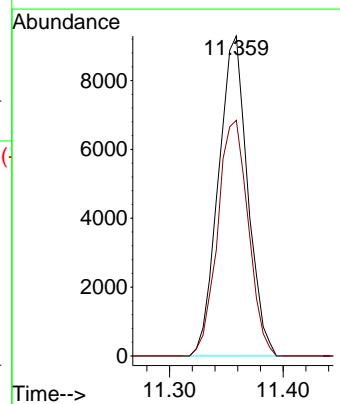
Acq: 15 Apr 2025 12:21

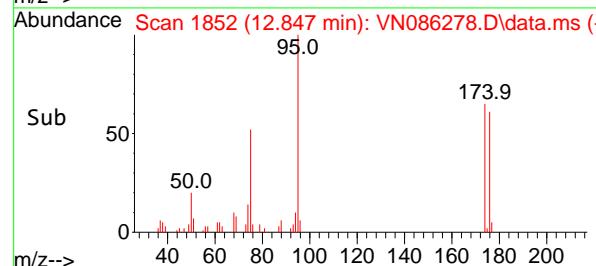
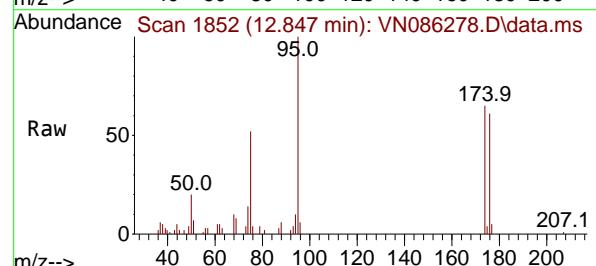
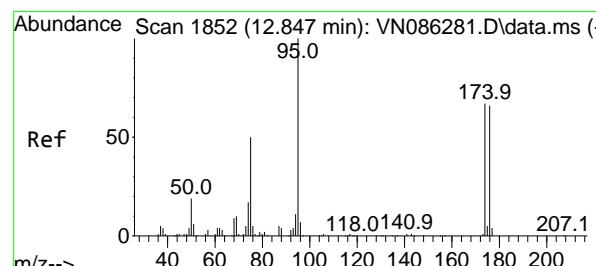
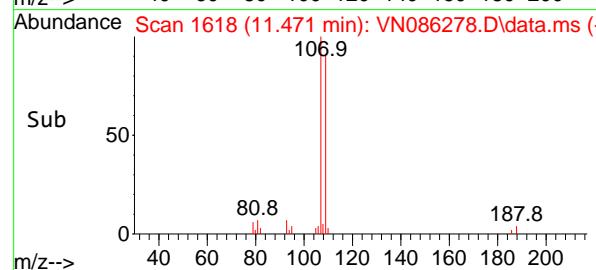
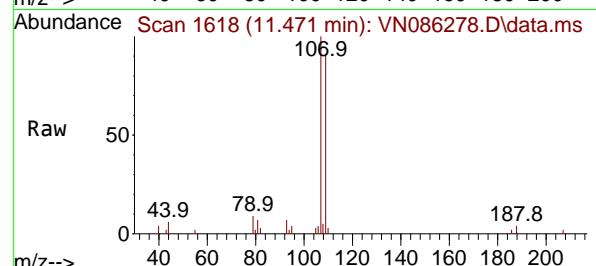
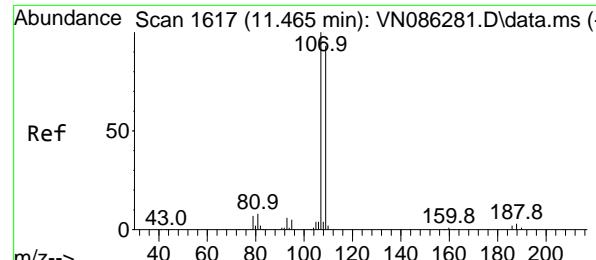
Tgt Ion:129 Resp: 16611

Ion Ratio Lower Upper

129 100

127 77.1 38.7 116.1





#61

1,2-Dibromoethane

Concen: 5.087 ug/l

RT: 11.471 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

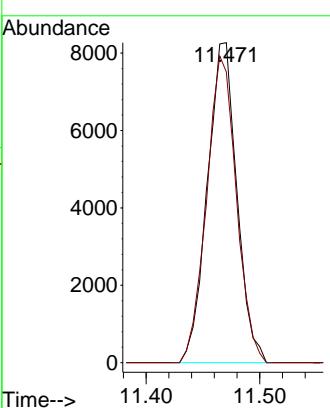
Instrument:

MSVOA_N

ClientSampleId :

VSTDICC005

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#62

4-Bromofluorobenzene

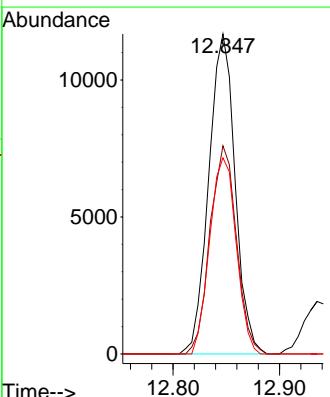
Concen: 5.076 ug/l

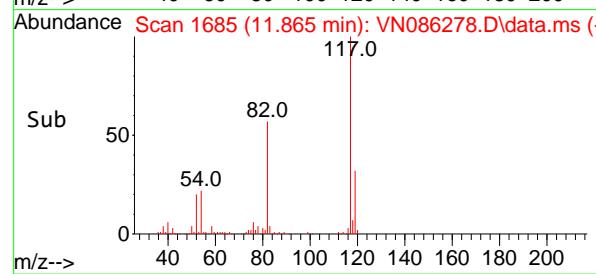
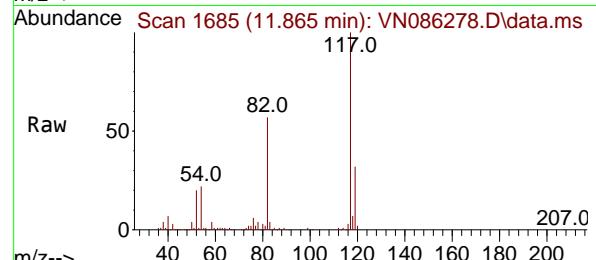
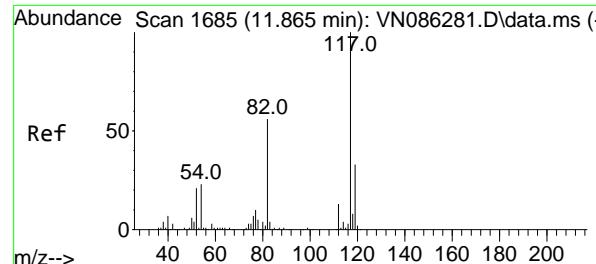
RT: 12.847 min Scan# 1852

Delta R.T. -0.000 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

 Tgt Ion: 95 Resp: 20034
 Ion Ratio Lower Upper
 95 100
 174 65.4 0.0 133.4
 176 61.7 0.0 129.2




#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

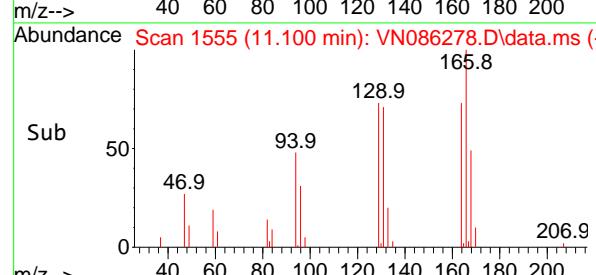
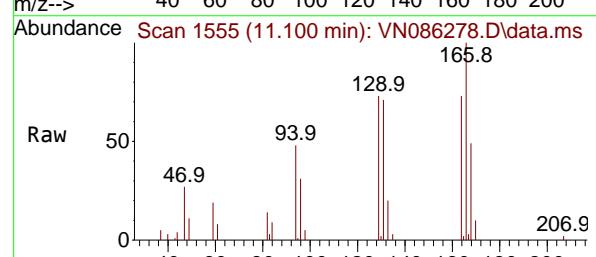
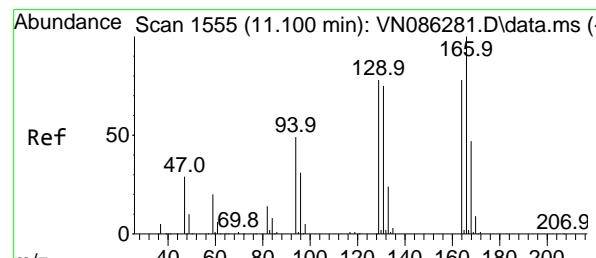
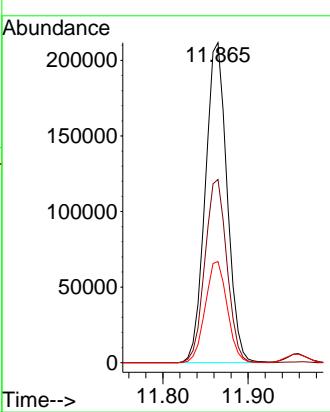
Instrument:

MSVOA_N

ClientSampleId :

VSTDICC005

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#64

Tetrachloroethene

Concen: 5.188 ug/l

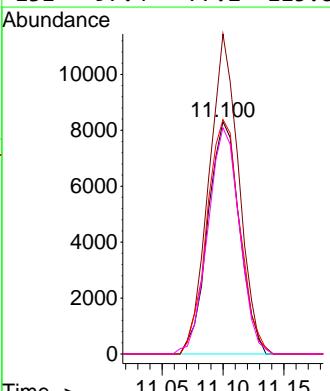
RT: 11.100 min Scan# 1555

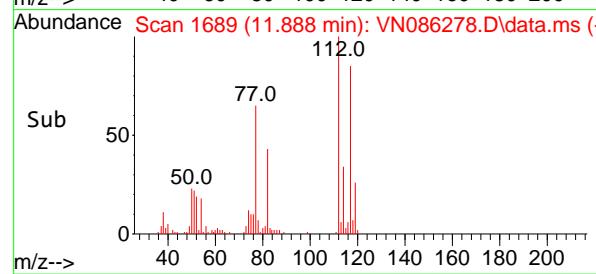
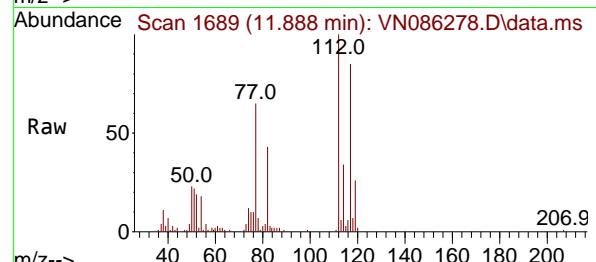
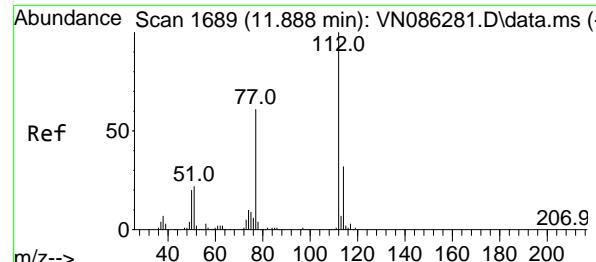
Delta R.T. -0.000 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

| Tgt | Ion:164 | Resp: | 14998 |
|-----|---------|-------|-------|
| Ion | Ratio | Lower | Upper |
| 164 | 100 | | |
| 166 | 137.7 | 103.0 | 154.4 |
| 129 | 100.9 | 80.1 | 120.1 |
| 131 | 97.4 | 77.2 | 115.8 |



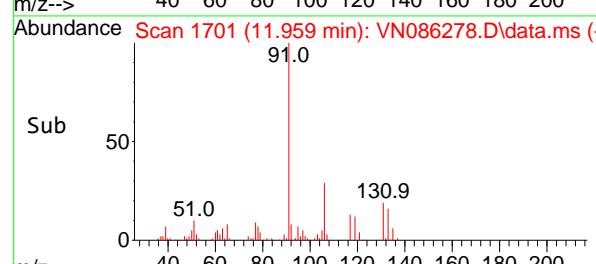
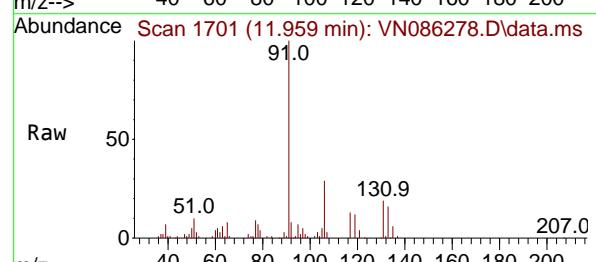
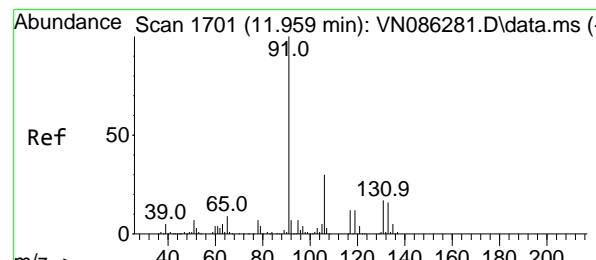
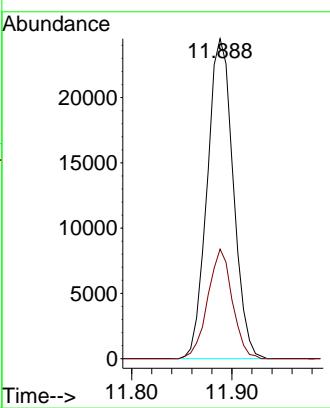


#65
Chlorobenzene
Concen: 5.265 ug/l
RT: 11.888 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

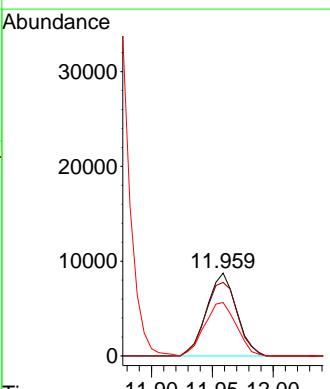
Manual Integrations APPROVED

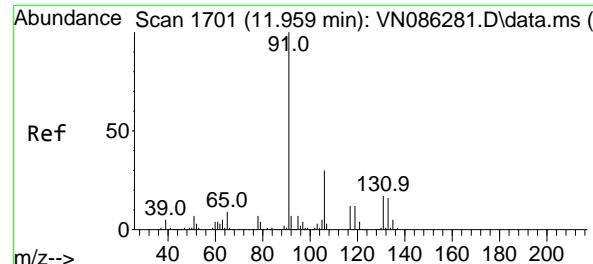
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



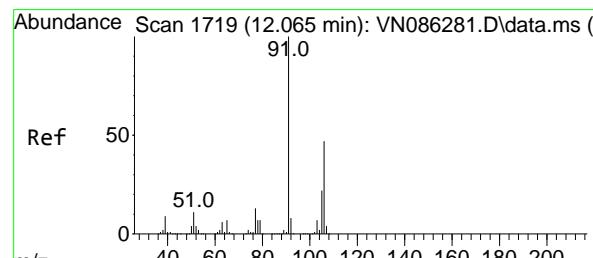
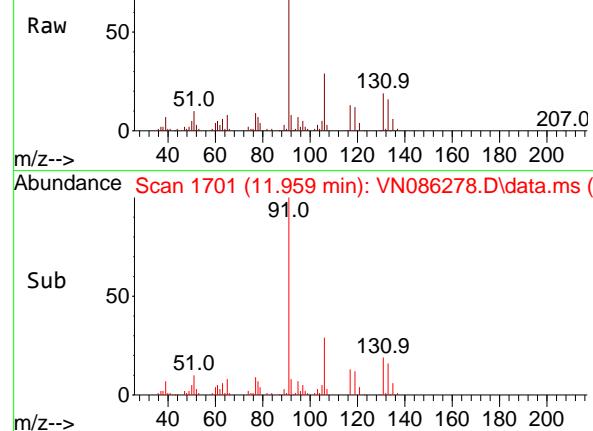
#66
1,1,1,2-Tetrachloroethane
Concen: 5.383 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

Tgt Ion:131 Resp: 14896
Ion Ratio Lower Upper
131 100
133 96.2 47.1 141.3
119 68.8 33.8 101.4

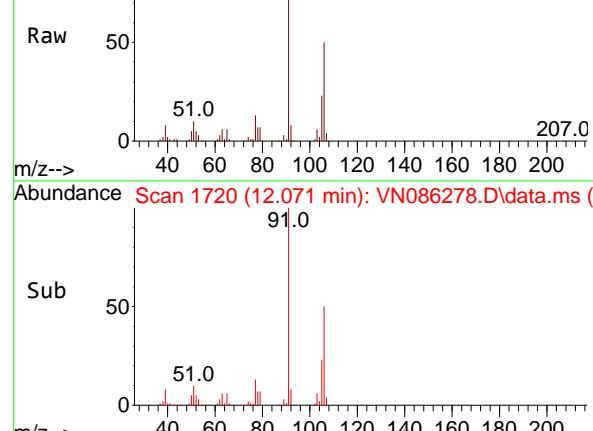




Abundance Scan 1701 (11.959 min): VN086278.D\data.ms (-)



Abundance Scan 1720 (12.071 min): VN086278.D\data.ms (-)



Abundance Scan 1720 (12.071 min): VN086278.D\data.ms (-)

#67

Ethyl Benzene

Concen: 5.244 ug/l

RT: 11.959 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

Instrument:

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 91 Resp: 79370

Ion Ratio Lower Upper

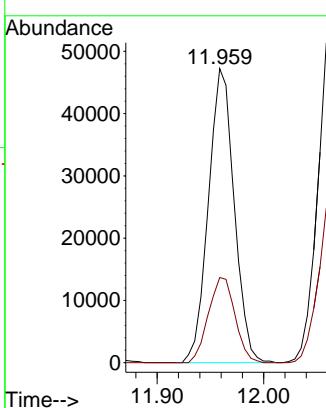
91 100

106 29.0 24.3 36.5

Manual Integrations**APPROVED**

Reviewed By :John Carbone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#68

m/p-Xylenes

Concen: 10.537 ug/l

RT: 12.071 min Scan# 1720

Delta R.T. 0.006 min

Lab File: VN086278.D

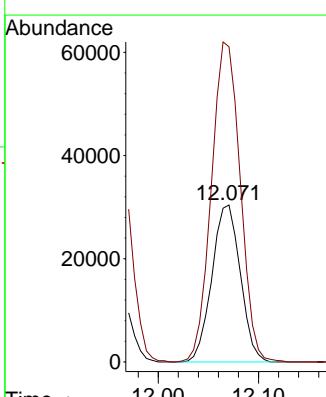
Acq: 15 Apr 2025 12:21

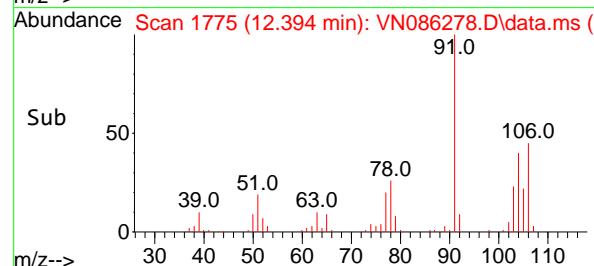
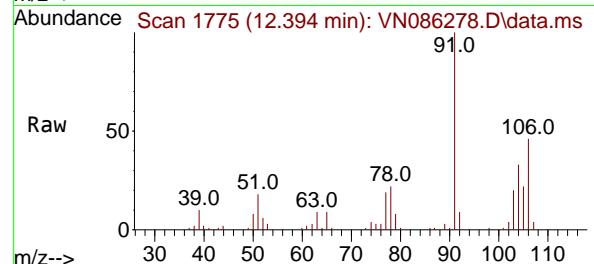
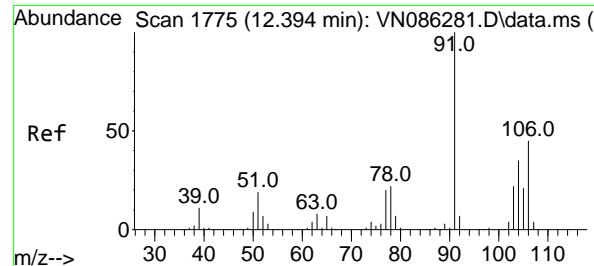
Tgt Ion: 106 Resp: 59758

Ion Ratio Lower Upper

106 100

91 207.0 166.5 249.7



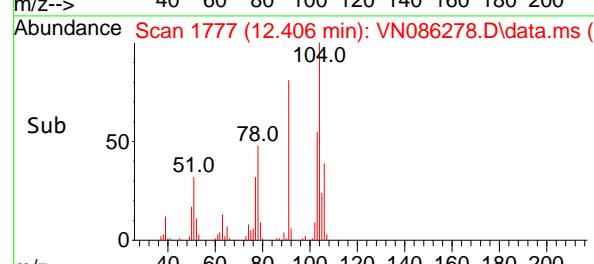
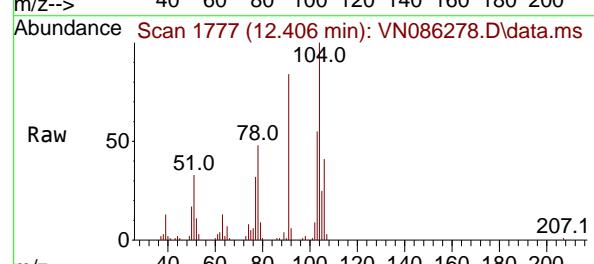
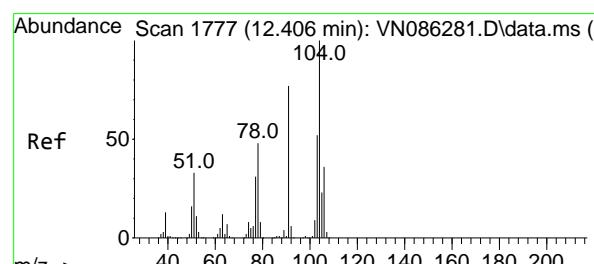
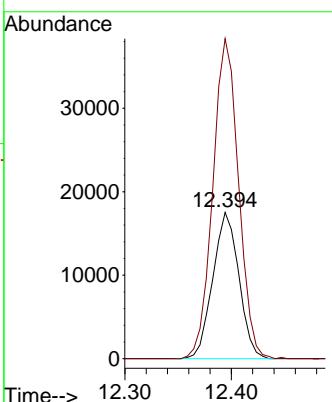


#69
o-Xylene
Concen: 5.305 ug/l
RT: 12.394 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

Instrument : MSVOA_N
ClientSampleId : VSTDICC005

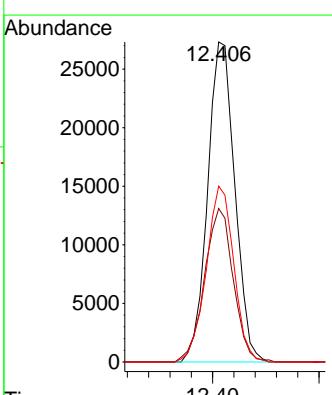
Manual Integrations APPROVED

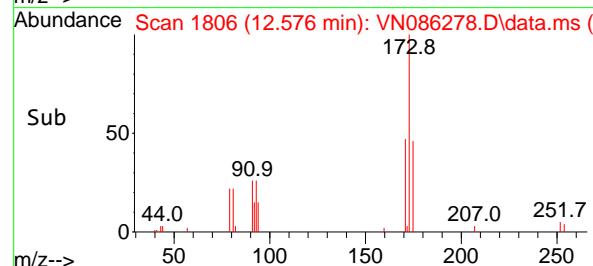
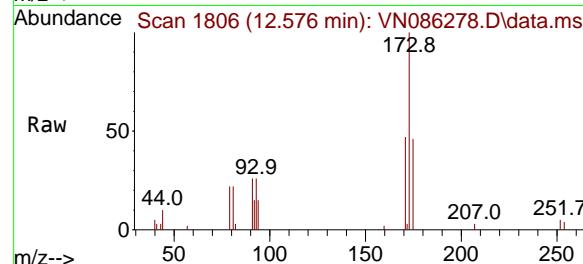
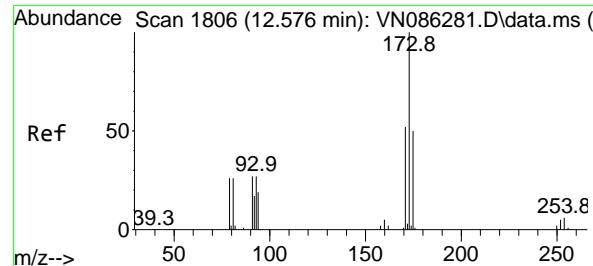
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#70
Styrene
Concen: 5.180 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

Tgt Ion:104 Resp: 48407
Ion Ratio Lower Upper
104 100
78 50.6 40.6 61.0
103 55.8 43.6 65.4





#71

Bromoform

Concen: 5.311 ug/l

RT: 12.576 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

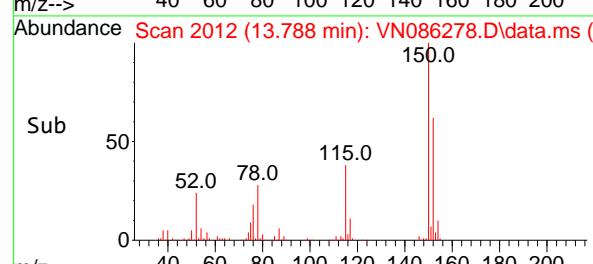
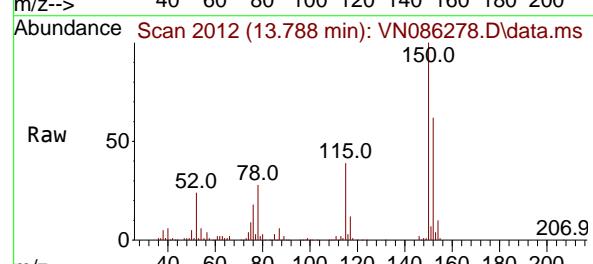
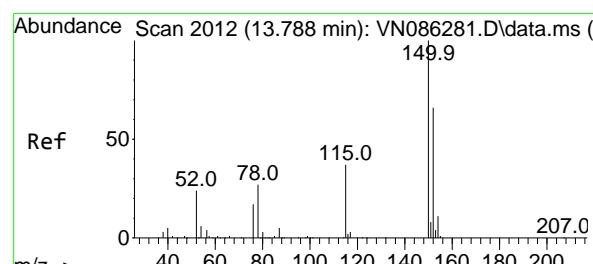
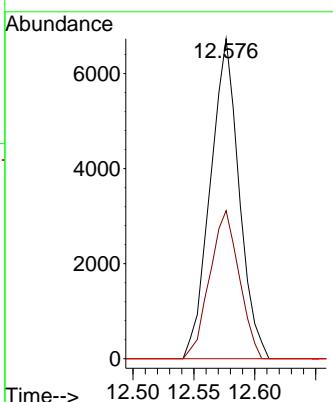
Instrument:

MSVOA_N

ClientSampleId :

VSTDICC005

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

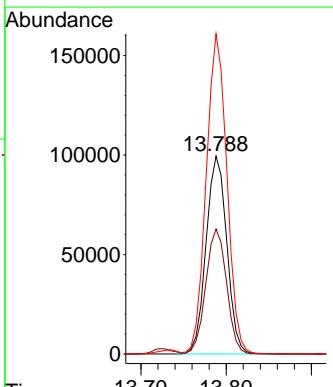
RT: 13.788 min Scan# 2012

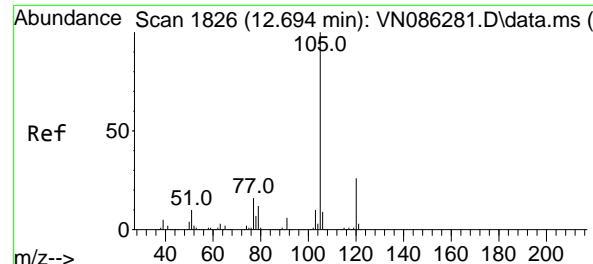
Delta R.T. -0.000 min

Lab File: VN086278.D

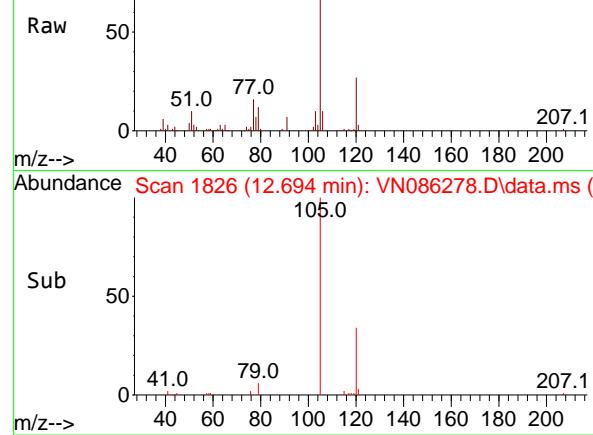
Acq: 15 Apr 2025 12:21

| Tgt | Ion:152 | Resp: | 167796 |
|-----|---------|-------|--------|
| Ion | Ratio | Lower | Upper |
| 152 | 100 | | |
| 115 | 63.4 | 31.9 | 95.9 |
| 150 | 161.6 | 0.0 | 352.0 |

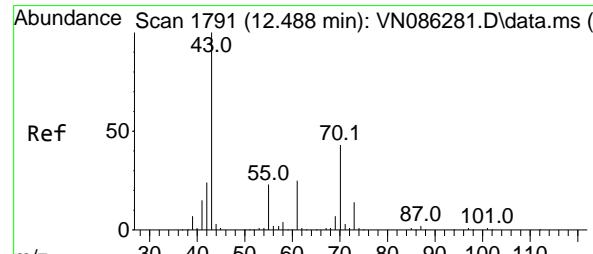
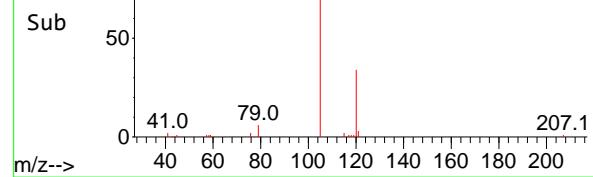




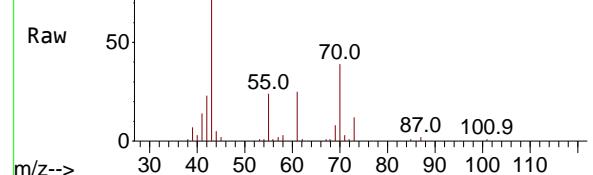
Abundance Scan 1826 (12.694 min): VN086278.D\data.ms (-)



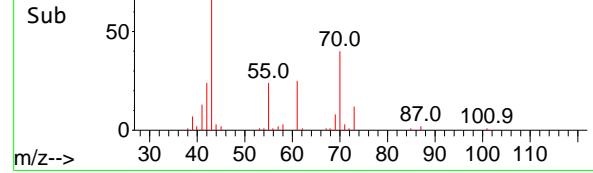
Abundance Scan 1826 (12.694 min): VN086278.D\data.ms (-)



Abundance Scan 1791 (12.488 min): VN086278.D\data.ms (-)



Abundance Scan 1791 (12.488 min): VN086278.D\data.ms (-)



#73

Isopropylbenzene

Concen: 5.221 ug/l

RT: 12.694 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion:105 Resp: 7165

Ion Ratio Lower Upper

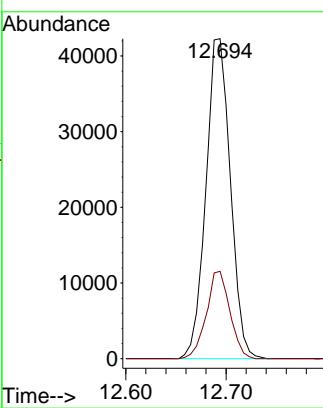
105 100

120 26.2 13.1 39.3

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#74

N-amyl acetate

Concen: 5.182 ug/l

RT: 12.488 min Scan# 1791

Delta R.T. -0.000 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

Tgt Ion: 43 Resp: 35409

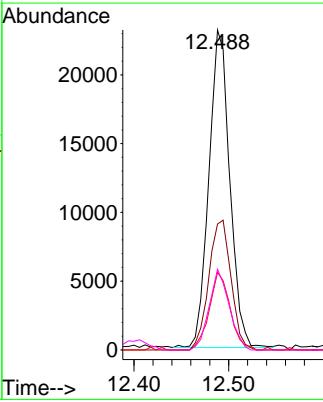
Ion Ratio Lower Upper

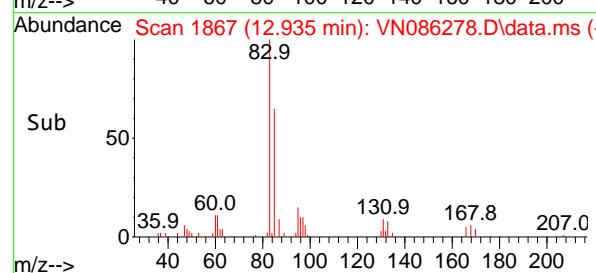
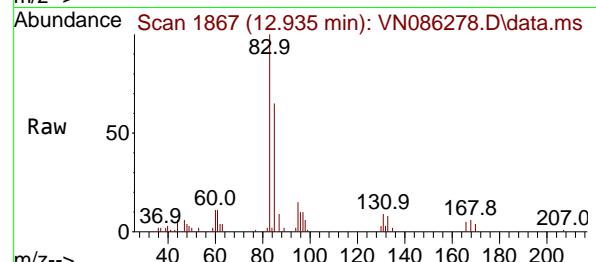
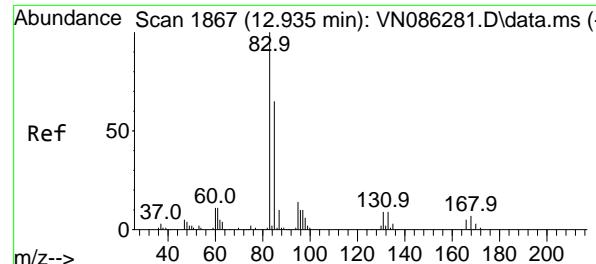
43 100

70 43.4 35.0 52.4

55 24.4 19.0 28.4

61 24.3 19.8 29.8



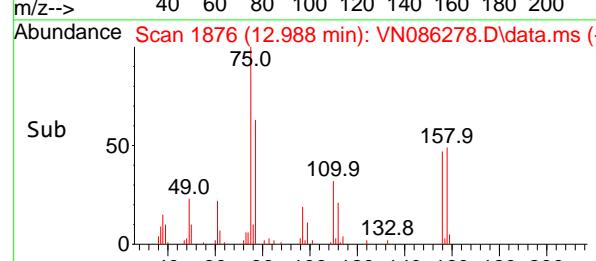
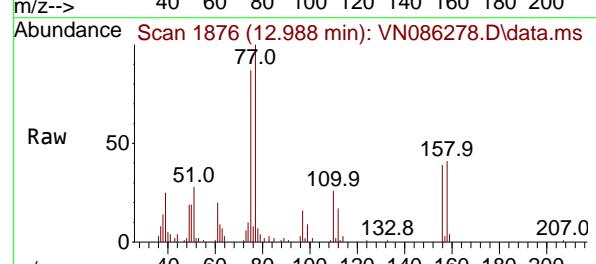
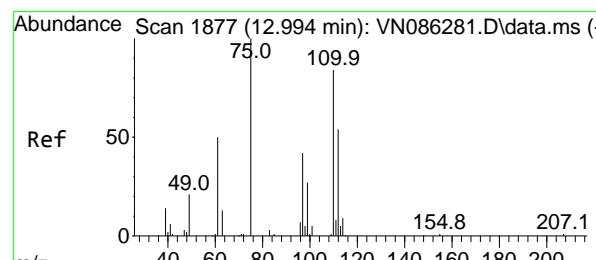
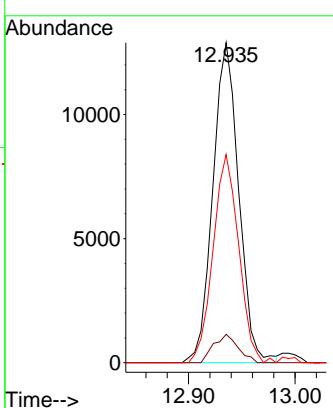


#75
1,1,2,2-Tetrachloroethane
Concen: 5.503 ug/l
RT: 12.935 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

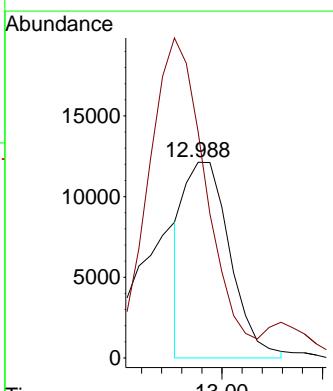
Manual Integrations APPROVED

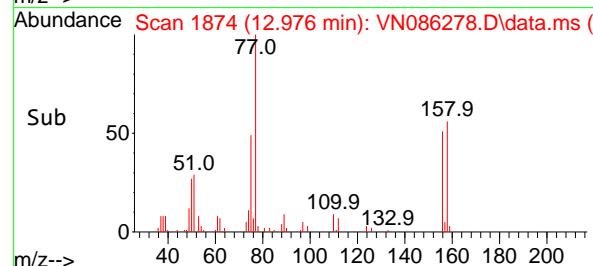
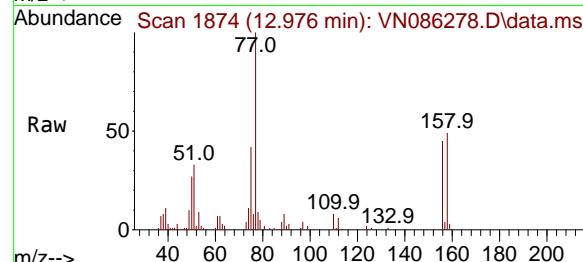
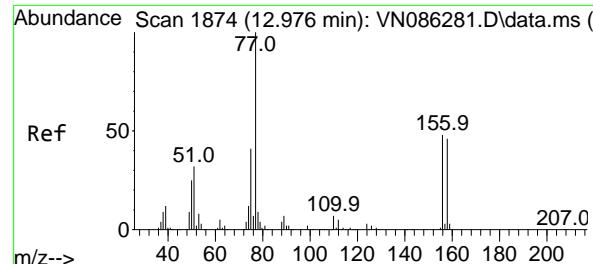
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#76
1,2,3-Trichloropropane
Concen: 4.870 ug/l
RT: 12.988 min Scan# 1876
Delta R.T. -0.006 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

Tgt Ion: 75 Resp: 19196
Ion Ratio Lower Upper
75 100
77 208.2 98.8 296.4





#77

Bromobenzene

Concen: 5.156 ug/l

RT: 12.976 min Scan# 1874

Delta R.T. -0.000 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

Instrument:

MSVOA_N

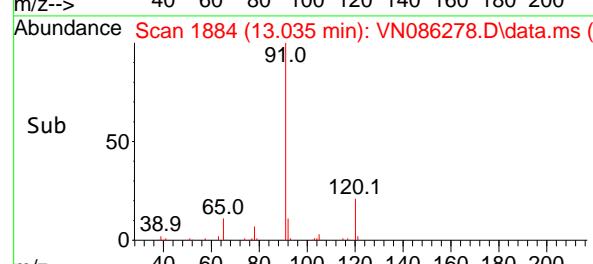
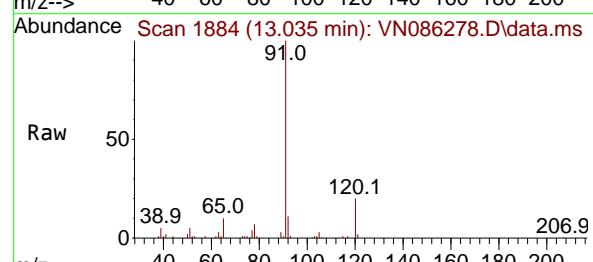
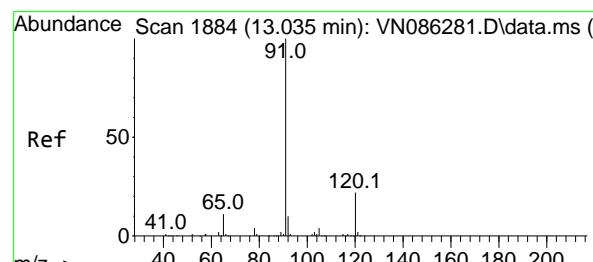
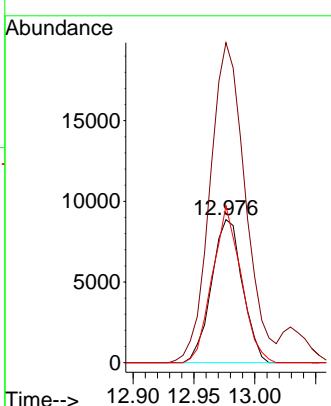
ClientSampleId :

VSTDICC005

**Manual Integrations
APPROVED**

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#78

n-propylbenzene

Concen: 5.261 ug/l

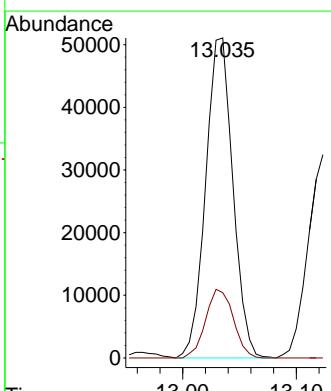
RT: 13.035 min Scan# 1884

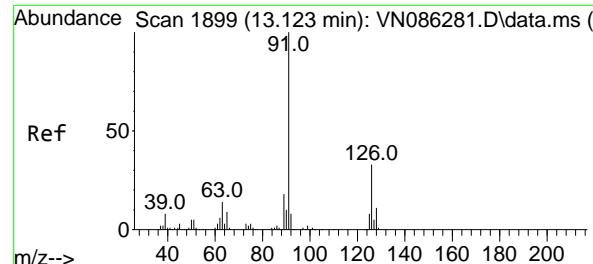
Delta R.T. -0.000 min

Lab File: VN086278.D

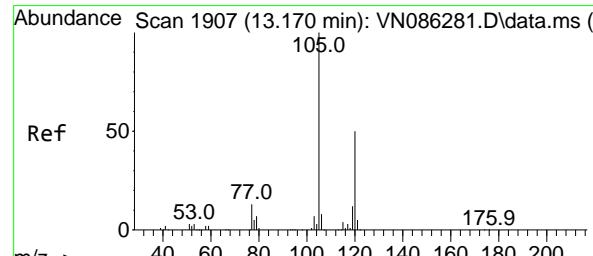
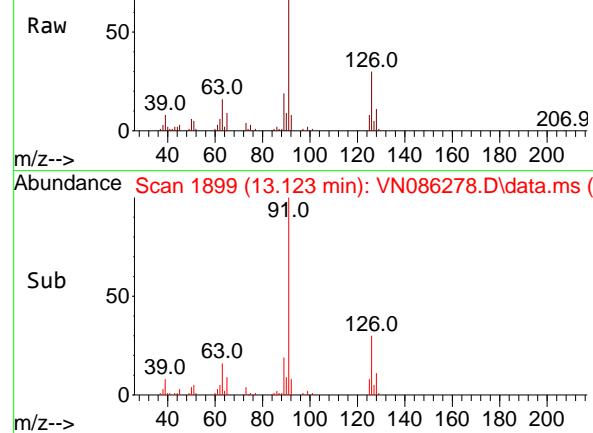
Acq: 15 Apr 2025 12:21

| Tgt | Ion: 91 | Resp: 85101 |
|-----------|---------|-------------|
| Ion Ratio | Lower | Upper |
| 91 | 100 | |
| 120 | 21.8 | 11.1 |
| | | 33.3 |

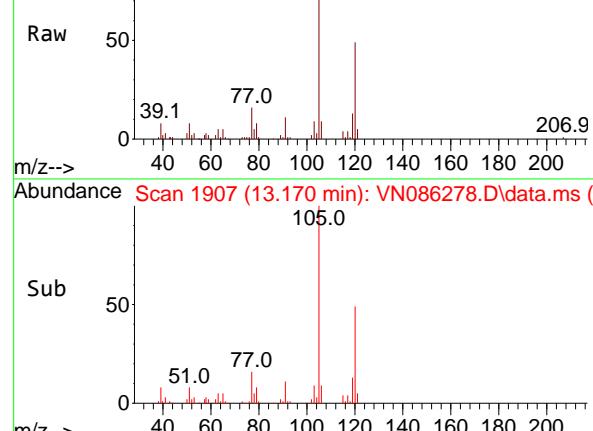




Abundance Scan 1899 (13.123 min): VN086278.D\data.ms (-)



Abundance Scan 1907 (13.170 min): VN086278.D\data.ms (-)



Abundance Scan 1907 (13.170 min): VN086278.D\data.ms (-)

#79

2-Chlorotoluene

Concen: 5.384 ug/l

RT: 13.123 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

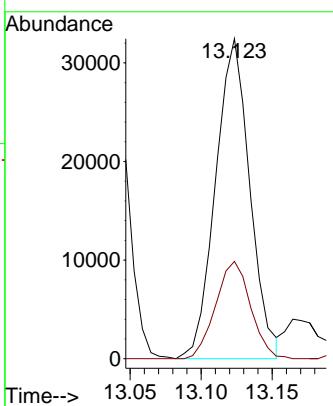
Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#80

1,3,5-Trimethylbenzene

Concen: 5.255 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VN086278.D

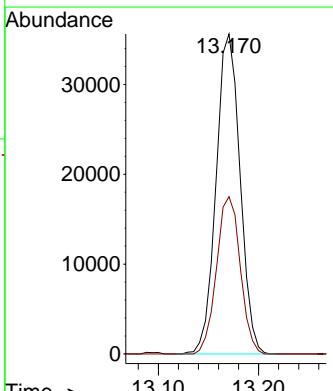
Acq: 15 Apr 2025 12:21

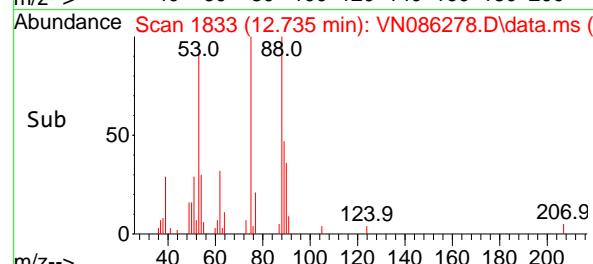
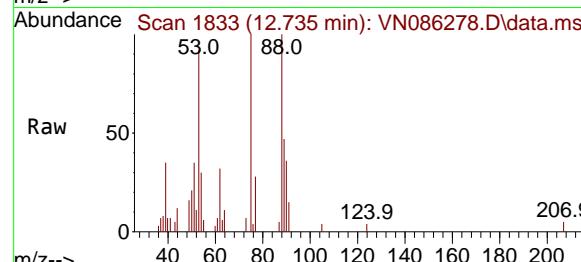
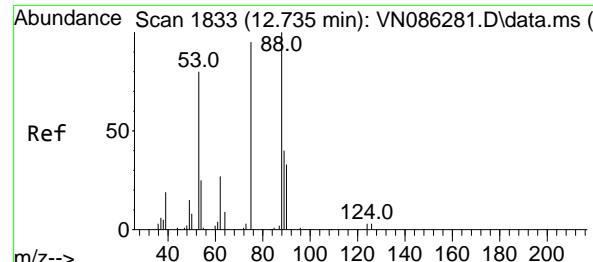
Tgt Ion:105 Resp: 59035

Ion Ratio Lower Upper

105 100

120 48.7 24.5 73.5





#81

trans-1,4-Dichloro-2-butene

Concen: 5.357 ug/l m

RT: 12.735 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

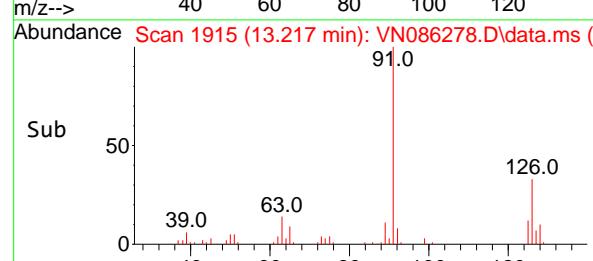
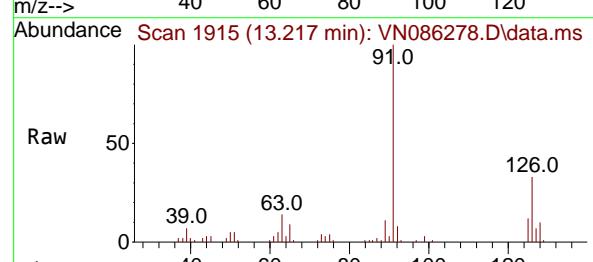
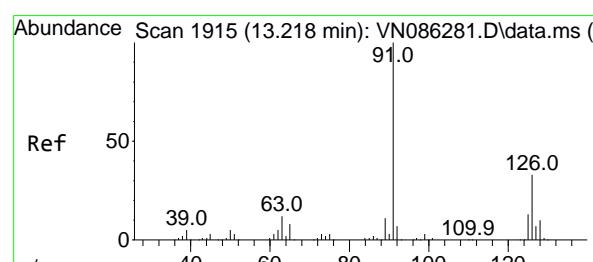
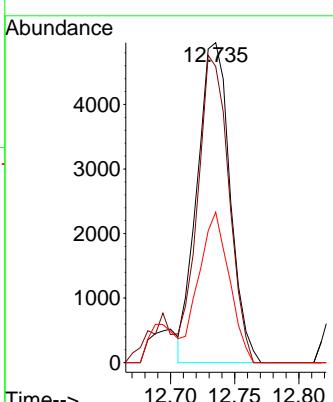
Instrument:

MSVOA_N

ClientSampleId :

VSTDICC005

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#82

4-Chlorotoluene

Concen: 5.260 ug/l

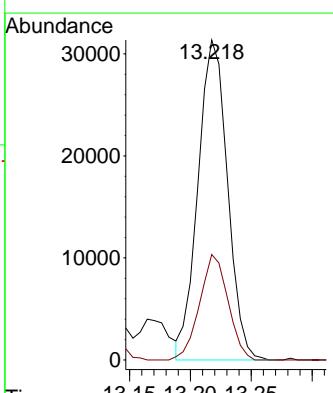
RT: 13.217 min Scan# 1915

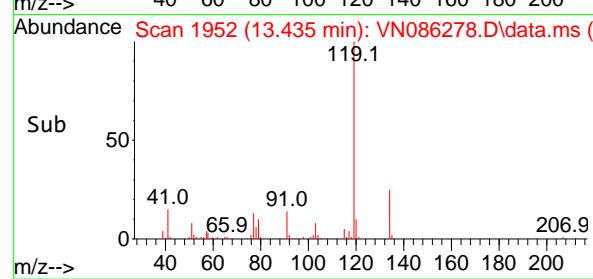
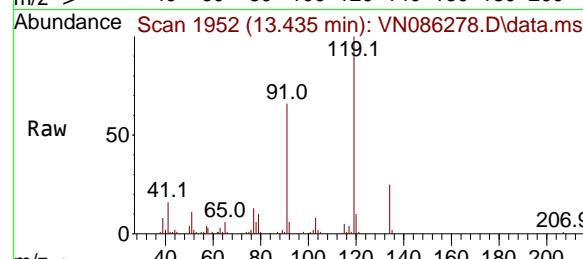
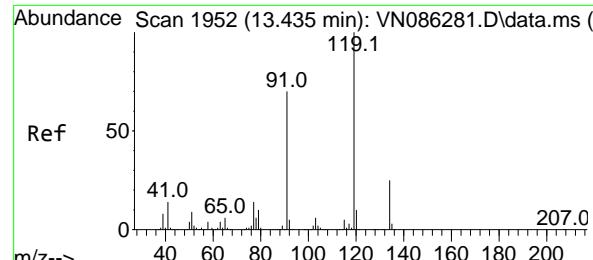
Delta R.T. -0.000 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

| Tgt | Ion | 91 | Resp: | 52887 |
|-----|-------|-------|-------|-------|
| Ion | Ratio | Lower | Upper | |
| | 91 | 100 | | |
| | 126 | 31.7 | 16.2 | 48.6 |





#83

tert-Butylbenzene

Concen: 5.270 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. -0.000 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

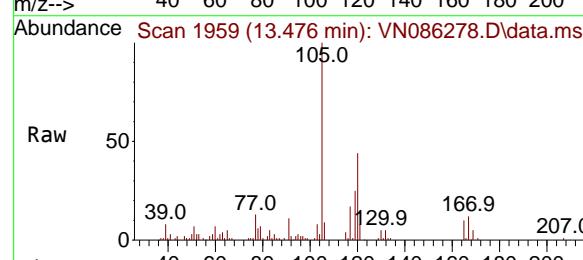
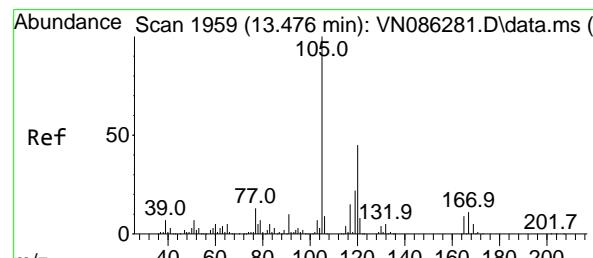
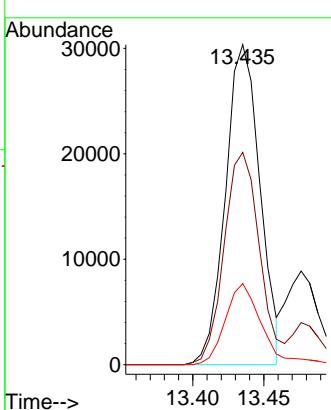
Instrument:

MSVOA_N

ClientSampleId :

VSTDICC005

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#84

1,2,4-Trimethylbenzene

Concen: 5.347 ug/l

RT: 13.476 min Scan# 1959

Delta R.T. -0.000 min

Lab File: VN086278.D

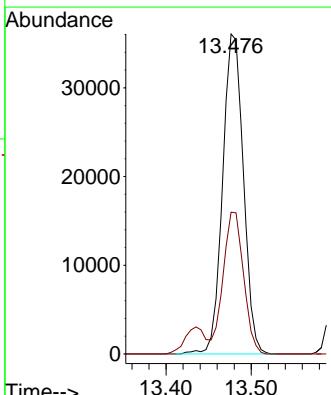
Acq: 15 Apr 2025 12:21

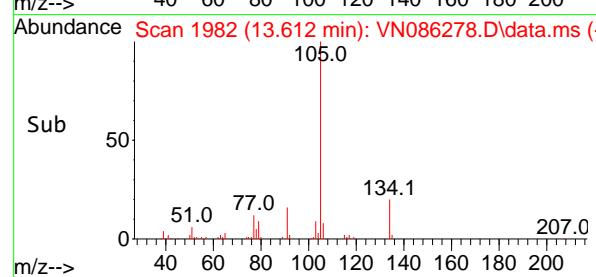
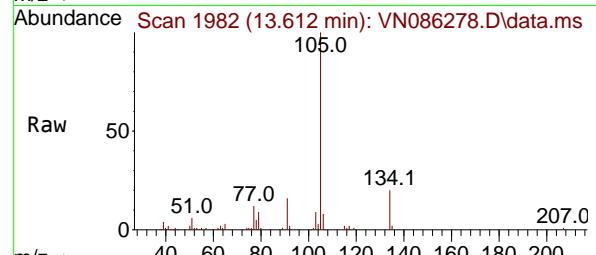
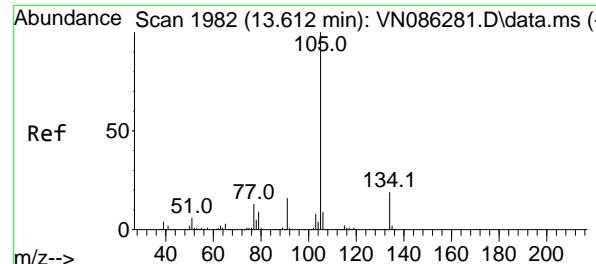
Tgt Ion:105 Resp: 61145

Ion Ratio Lower Upper

105 100

120 43.4 22.4 67.3





#85

sec-Butylbenzene

Concen: 5.355 ug/l

RT: 13.612 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

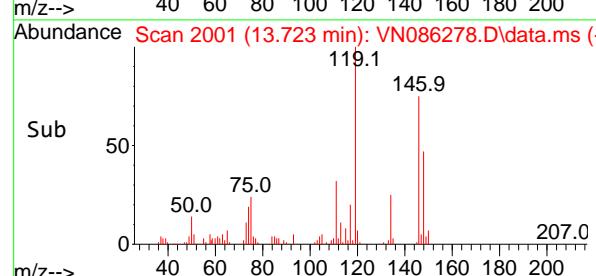
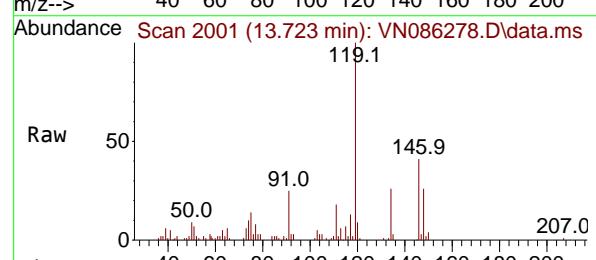
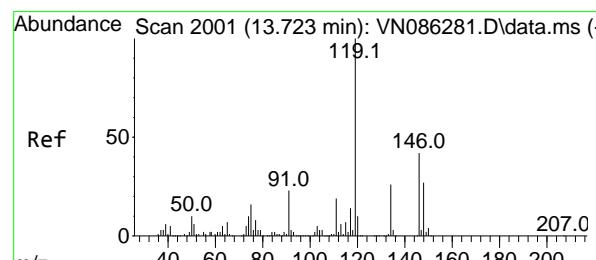
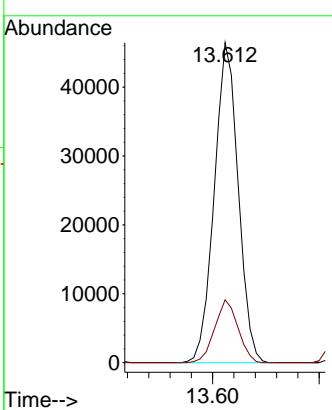
Instrument:

MSVOA_N

ClientSampleId :

VSTDICC005

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#86

p-Isopropyltoluene

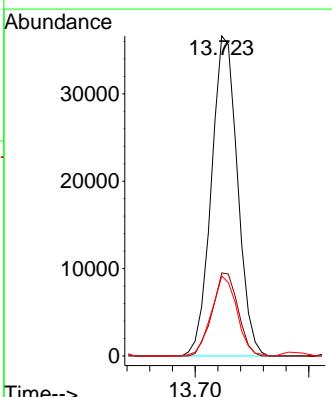
Concen: 5.258 ug/l

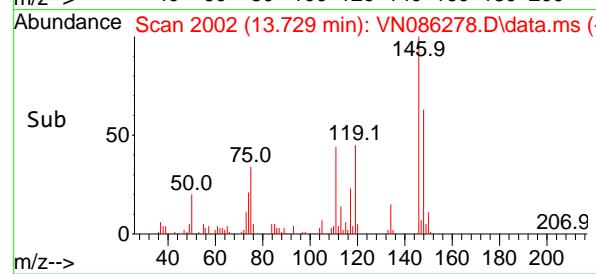
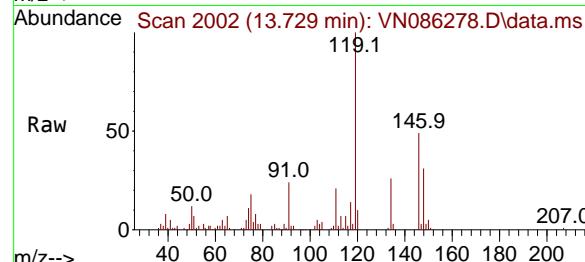
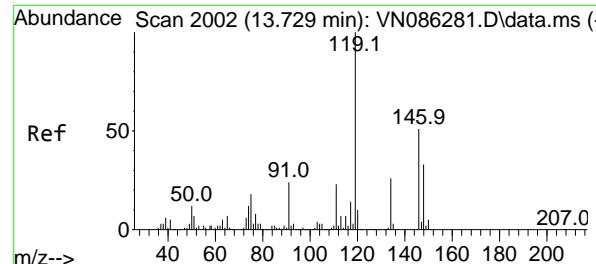
RT: 13.723 min Scan# 2001

Delta R.T. -0.000 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

 Tgt Ion:119 Resp: 58514
 Ion Ratio Lower Upper
 119 100
 134 25.7 13.1 39.1
 91 24.4 11.9 35.9




#87

1,3-Dichlorobenzene

Concen: 5.347 ug/l

RT: 13.729 min Scan# 2

Delta R.T. -0.000 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

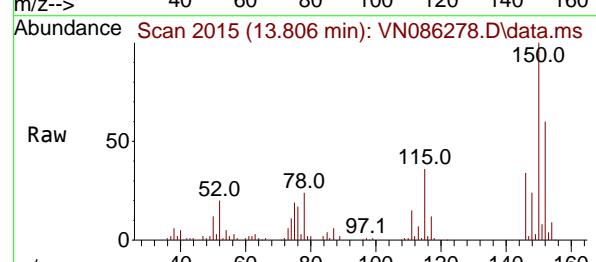
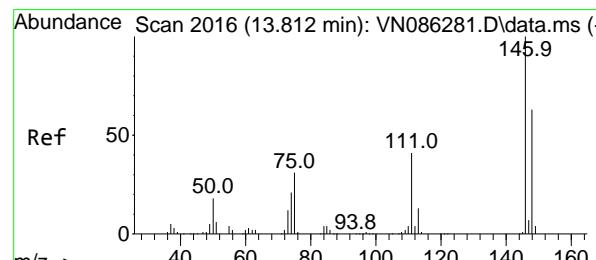
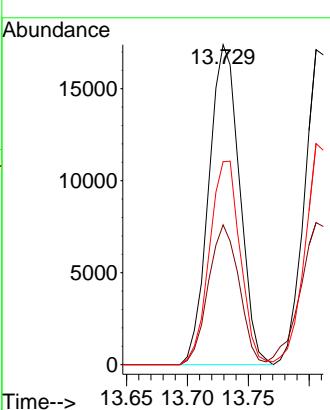
Instrument:

MSVOA_N

ClientSampleId :

VSTDICC005

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#88

1,4-Dichlorobenzene

Concen: 5.287 ug/l

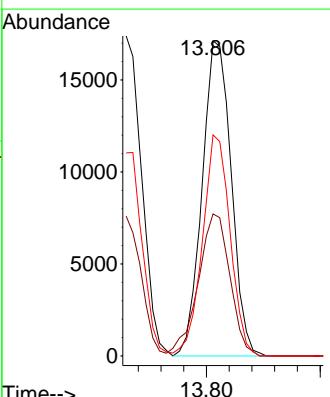
RT: 13.806 min Scan# 2015

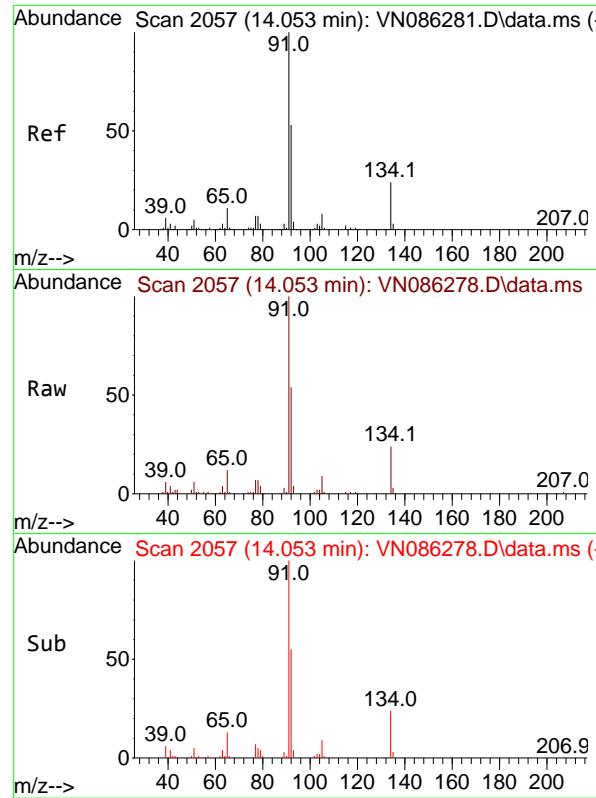
Delta R.T. -0.006 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

| Tgt | Ion:146 | Resp: | 30447 |
|-----|---------|-------|-------|
| Ion | Ratio | Lower | Upper |
| 146 | 100 | | |
| 111 | 49.3 | 21.3 | 63.9 |
| 148 | 66.7 | 31.9 | 95.9 |





#89

n-Butylbenzene

Concen: 5.126 ug/l

RT: 14.053 min Scan# 2

Instrument :

Delta R.T. -0.000 min

MSVOA_N

Lab File: VN086278.D

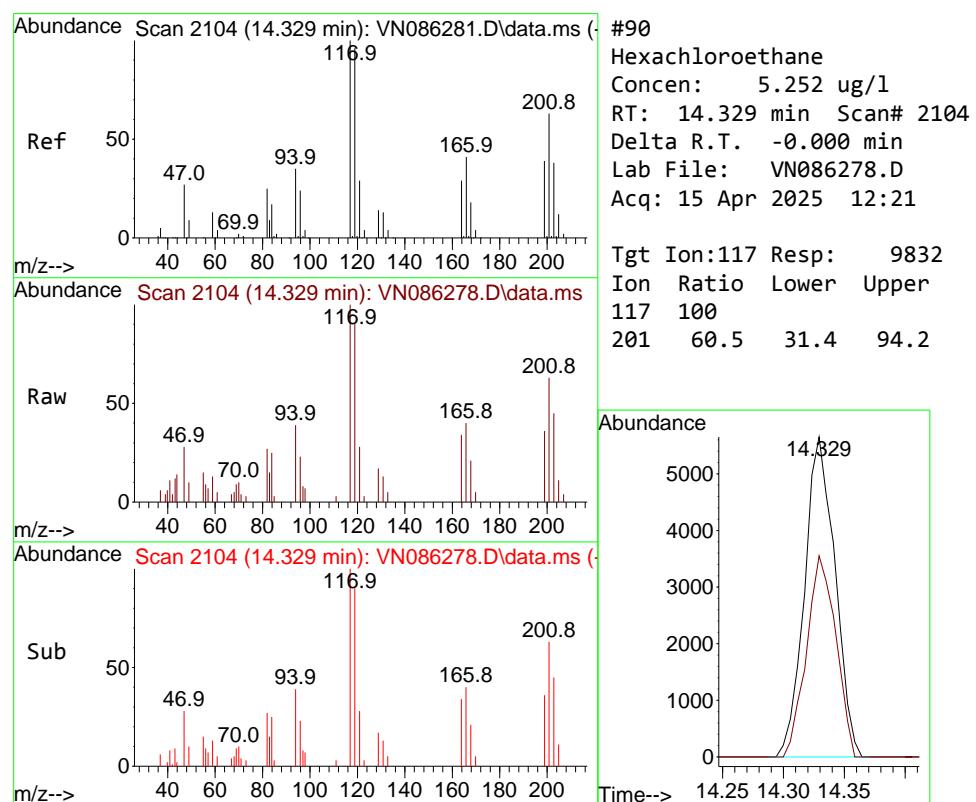
ClientSampleId : VSTDICC005

Acq: 15 Apr 2025 12:21

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#90

Hexachloroethane

Concen: 5.252 ug/l

RT: 14.329 min Scan# 2104

Delta R.T. -0.000 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

Tgt Ion:117 Resp: 9832

Ion Ratio Lower Upper

117 100

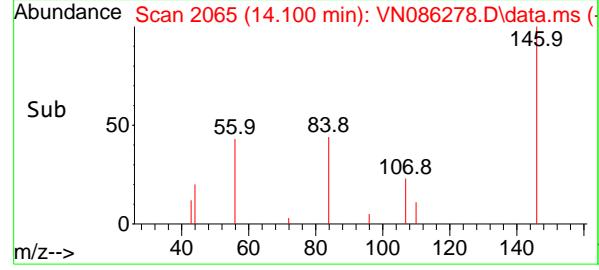
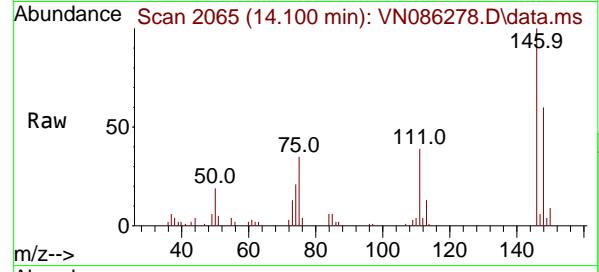
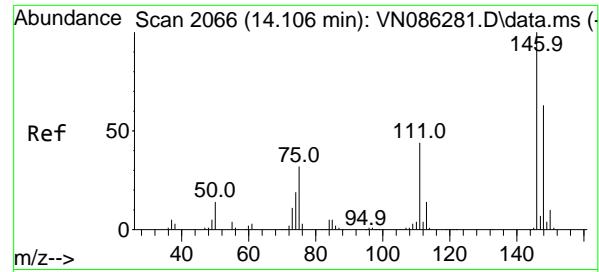
201 60.5 31.4 94.2

Abundance

14.329

Time-->

14.25 14.30 14.35

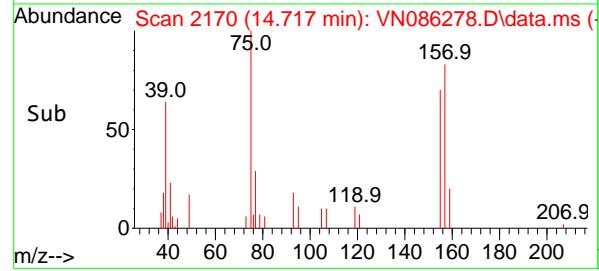
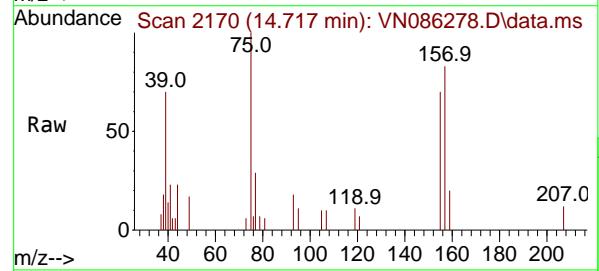
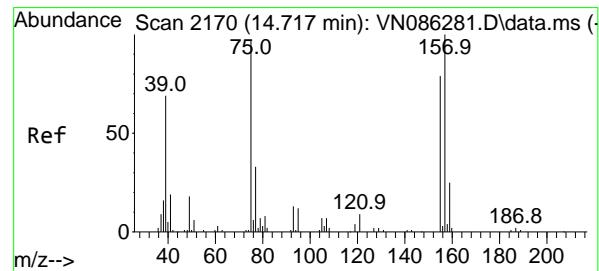
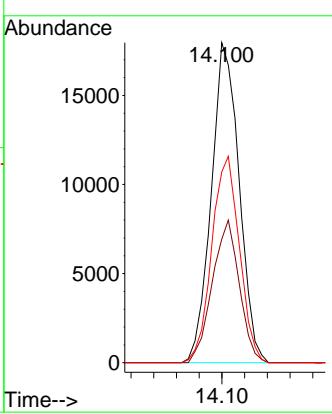


#91
1,2-Dichlorobenzene
Concen: 5.511 ug/l
RT: 14.100 min Scan# 2170
Delta R.T. -0.006 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

Instrument : MSVOA_N
ClientSampleId : VSTDICC005

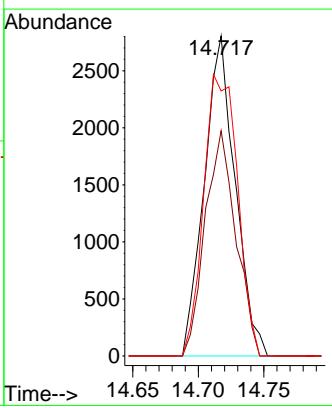
Manual Integrations
APPROVED

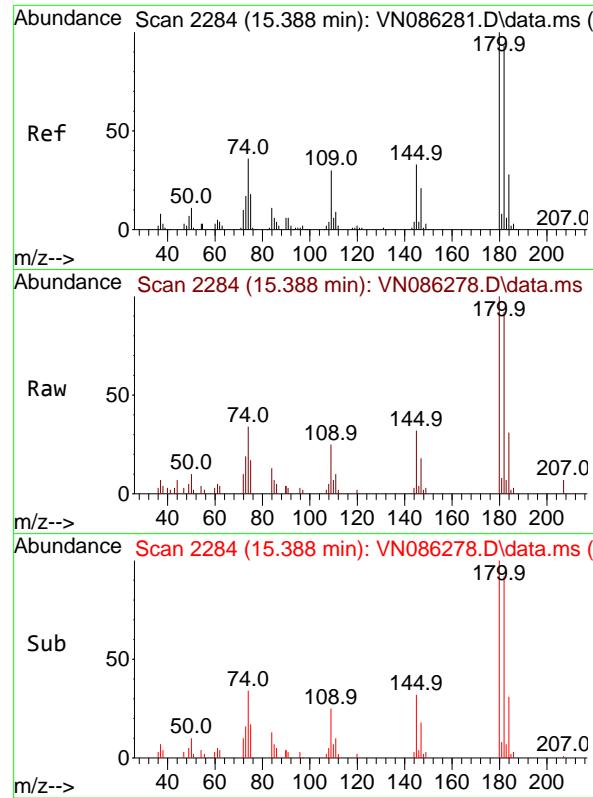
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 5.772 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

Tgt Ion: 75 Resp: 4593
Ion Ratio Lower Upper
75 100
155 70.0 40.3 120.9
157 96.0 49.0 147.2



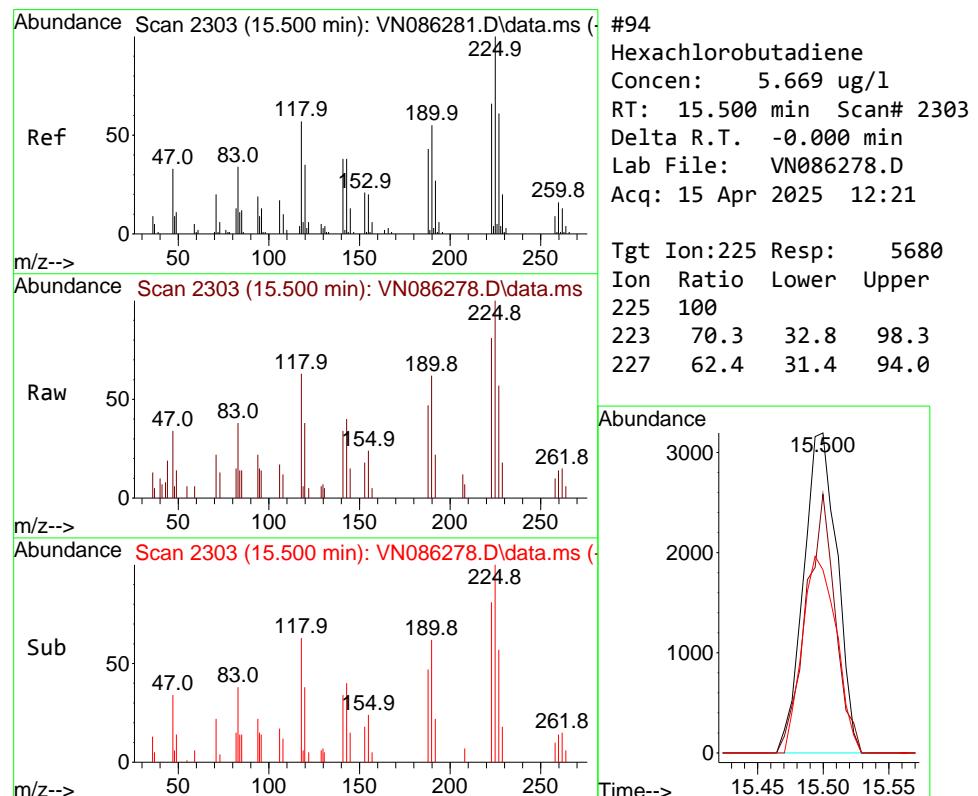
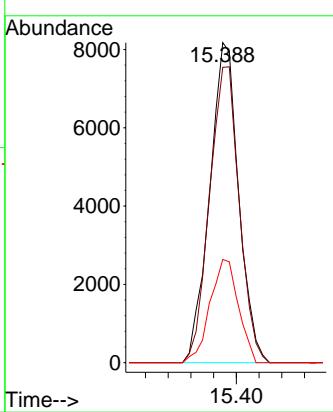


#93
1,2,4-Trichlorobenzene
Concen: 5.465 ug/l
RT: 15.388 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

Instrument : MSVOA_N
ClientSampleId : VSTDICC005

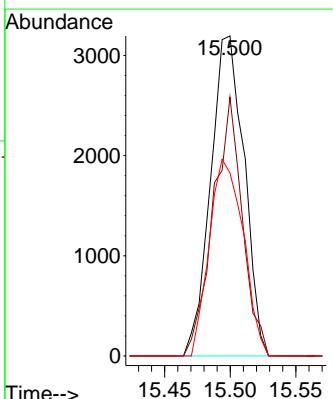
Manual Integrations APPROVED

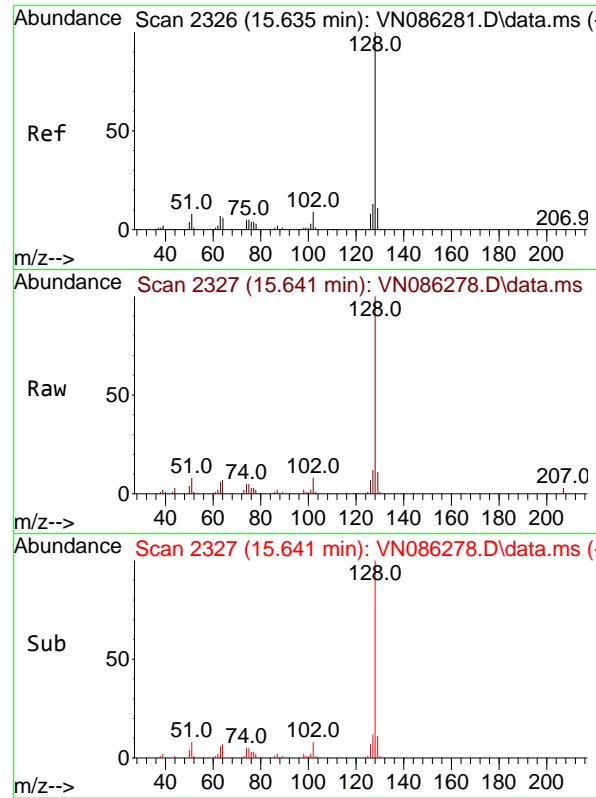
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#94
Hexachlorobutadiene
Concen: 5.669 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

Tgt Ion:225 Resp: 5680
Ion Ratio Lower Upper
225 100
223 70.3 32.8 98.3
227 62.4 31.4 94.0



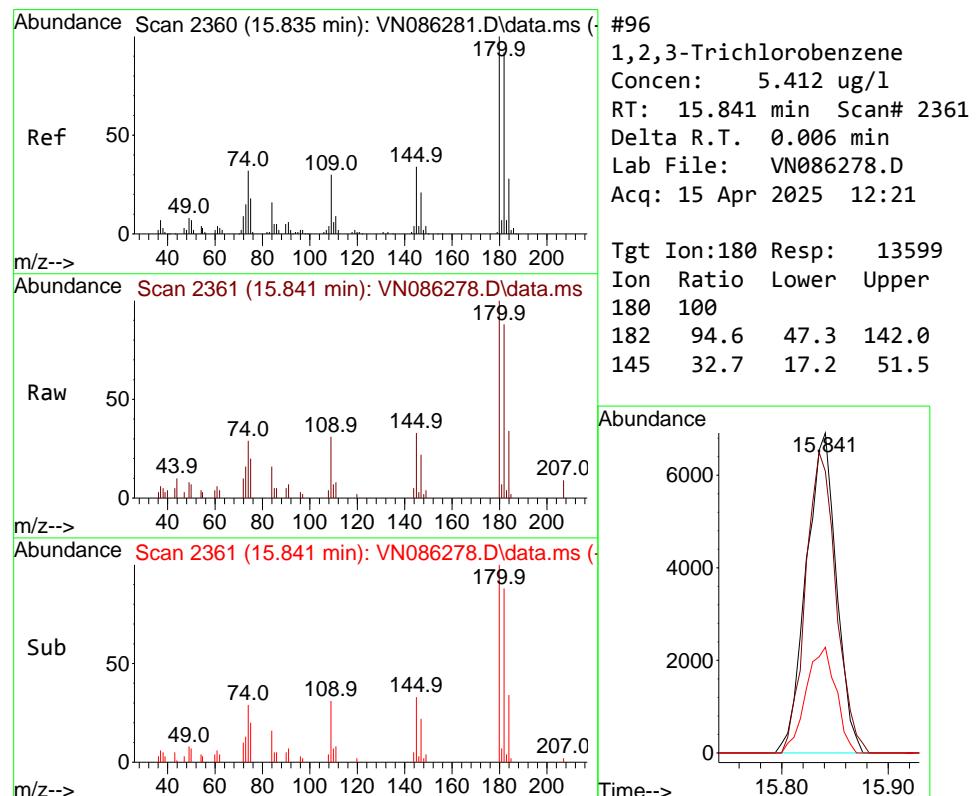
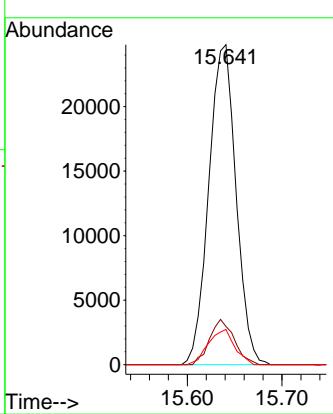


#95
Naphthalene
Concen: 5.270 ug/l
RT: 15.641 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

Instrument : MSVOA_N
ClientSampleId : VSTDICC005

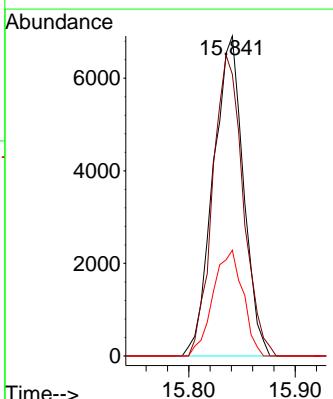
Manual Integrations
APPROVED

Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#96
1,2,3-Trichlorobenzene
Concen: 5.412 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.006 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

Tgt Ion:180 Resp: 13599
Ion Ratio Lower Upper
180 100
182 94.6 47.3 142.0
145 32.7 17.2 51.5



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041525\
 Data File : VN086279.D
 Acq On : 15 Apr 2025 12:45
 Operator : JC\MD
 Sample : VSTDICC010
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Quant Time: Apr 16 03:56:05 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 03:42:50 2025
 Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :John Carlane 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|------------------------------------|----------------|------|------------|---------|-------|----------|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 8.224 | 168 | 253576 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 9.100 | 114 | 468933 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.865 | 117 | 411009 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.788 | 152 | 178484 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.577 | 65 | 37770 | 10.272 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = | 20.540% | # | |
| 35) Dibromofluoromethane | 8.159 | 113 | 23907 | 10.985 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = | 21.960% | # | |
| 50) Toluene-d8 | 10.565 | 98 | 120121 | 10.327 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = | 20.660% | # | |
| 62) 4-Bromofluorobenzene | 12.847 | 95 | 42791 | 10.086 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = | 20.180% | # | |
| Target Compounds | | | | | | |
| | | | | Qvalue | | |
| 2) Dichlorodifluoromethane | 2.130 | 85 | 29521 | 9.821 | ug/l | 96 |
| 3) Chloromethane | 2.359 | 50 | 39728 | 9.094 | ug/l | 94 |
| 4) Vinyl Chloride | 2.518 | 62 | 39819 | 9.551 | ug/l | 99 |
| 5) Bromomethane | 2.965 | 94 | 18776 | 10.013 | ug/l | 87 |
| 6) Chloroethane | 3.124 | 64 | 26337 | 9.439 | ug/l | 92 |
| 7) Trichlorofluoromethane | 3.506 | 101 | 43539 | 9.428 | ug/l | 99 |
| 8) Diethyl Ether | 3.959 | 74 | 19000 | 9.425 | ug/l | 98 |
| 9) 1,1,2-Trichlorotrifluo... | 4.371 | 101 | 26478 | 9.478 | ug/l | 99 |
| 10) Methyl Iodide | 4.589 | 142 | 28586 | 9.308 | ug/l | 98 |
| 11) Tert butyl alcohol | 5.506 | 59 | 34343 | 51.188 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 4.342 | 96 | 28022 | 9.389 | ug/l | 90 |
| 13) Acrolein | 4.183 | 56 | 17703 | 44.165 | ug/l | 99 |
| 14) Allyl chloride | 5.024 | 41 | 48555m | 9.157 | ug/l | |
| 15) Acrylonitrile | 5.718 | 53 | 78184 | 47.141 | ug/l | 97 |
| 16) Acetone | 4.430 | 43 | 63789 | 45.485 | ug/l | 99 |
| 17) Carbon Disulfide | 4.712 | 76 | 81234 | 9.090 | ug/l | 99 |
| 18) Methyl Acetate | 5.024 | 43 | 41546 | 9.413 | ug/l | 97 |
| 19) Methyl tert-butyl Ether | 5.794 | 73 | 102069 | 9.304 | ug/l | 95 |
| 20) Methylene Chloride | 5.277 | 84 | 31218 | 9.183 | ug/l | 97 |
| 21) trans-1,2-Dichloroethene | 5.783 | 96 | 28271 | 9.060 | ug/l | 99 |
| 22) Diisopropyl ether | 6.671 | 45 | 106867 | 9.259 | ug/l | 97 |
| 23) Vinyl Acetate | 6.600 | 43 | 386388 | 47.903 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 6.571 | 63 | 56906 | 9.345 | ug/l | 96 |
| 25) 2-Butanone | 7.477 | 43 | 106429 | 46.500 | ug/l | 98 |
| 26) 2,2-Dichloropropane | 7.488 | 77 | 51934 | 9.525 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 7.488 | 96 | 35180 | 9.084 | ug/l | 99 |
| 28) Bromochloromethane | 7.806 | 49 | 22094 | 8.557 | ug/l | 98 |
| 29) Tetrahydrofuran | 7.835 | 42 | 72642 | 47.462 | ug/l | 100 |
| 30) Chloroform | 7.965 | 83 | 56896 | 9.511 | ug/l | 95 |
| 31) Cyclohexane | 8.253 | 56 | 57797 | 9.699 | ug/l | 95 |
| 32) 1,1,1-Trichloroethane | 8.171 | 97 | 48313 | 9.441 | ug/l | 93 |
| 36) 1,1-Dichloropropene | 8.371 | 75 | 39999 | 9.202 | ug/l | 98 |
| 37) Ethyl Acetate | 7.559 | 43 | 42951 | 9.385 | ug/l | 99 |
| 38) Carbon Tetrachloride | 8.359 | 117 | 38345 | 9.263 | ug/l | 99 |
| 39) Methylcyclohexane | 9.594 | 83 | 48076 | 9.305 | ug/l | 98 |
| 40) Benzene | 8.606 | 78 | 130256 | 9.352 | ug/l | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041525\
 Data File : VN086279.D
 Acq On : 15 Apr 2025 12:45
 Operator : JC\MD
 Sample : VSTDICC010
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Quant Time: Apr 16 03:56:05 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 03:42:50 2025
 Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :John Carlane 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile | 7.777 | 41 | 26058 | 9.824 | ug/1 | 98 |
| 42) 1,2-Dichloroethane | 8.671 | 62 | 41980 | 9.452 | ug/1 | 100 |
| 43) Isopropyl Acetate | 8.682 | 43 | 90916 | 9.381 | ug/1 | 95 |
| 44) Trichloroethene | 9.347 | 130 | 31281 | 9.476 | ug/1 | 94 |
| 45) 1,2-Dichloropropane | 9.618 | 63 | 33270 | 9.759 | ug/1 | 98 |
| 46) Dibromomethane | 9.706 | 93 | 20677 | 9.519 | ug/1 | 97 |
| 47) Bromodichloromethane | 9.882 | 83 | 44773 | 9.543 | ug/1 | 97 |
| 48) Methyl methacrylate | 9.676 | 41 | 37900 | 9.430 | ug/1 | 98 |
| 49) 1,4-Dioxane | 9.688 | 88 | 13198 | 193.063 | ug/1 | 99 |
| 51) 4-Methyl-2-Pentanone | 10.441 | 43 | 224548 | 47.916 | ug/1 | 98 |
| 52) Toluene | 10.623 | 92 | 81084 | 9.330 | ug/1 | 100 |
| 53) t-1,3-Dichloropropene | 10.835 | 75 | 49510 | 9.454 | ug/1 | 100 |
| 54) cis-1,3-Dichloropropene | 10.312 | 75 | 54411 | 9.459 | ug/1 | 97 |
| 55) 1,1,2-Trichloroethane | 11.012 | 97 | 29512 | 9.439 | ug/1 | 93 |
| 56) Ethyl methacrylate | 10.871 | 69 | 54203 | 9.431 | ug/1 | 98 |
| 57) 1,3-Dichloropropane | 11.159 | 76 | 53151 | 9.581 | ug/1 | 98 |
| 58) 2-Chloroethyl Vinyl ether | 10.159 | 63 | 113279 | 41.526 | ug/1 | 99 |
| 59) 2-Hexanone | 11.194 | 43 | 166643 | 47.941 | ug/1 | 100 |
| 60) Dibromochloromethane | 11.353 | 129 | 33195 | 9.668 | ug/1 | 98 |
| 61) 1,2-Dibromoethane | 11.465 | 107 | 29886 | 9.473 | ug/1 | 99 |
| 64) Tetrachloroethene | 11.100 | 164 | 29467 | 9.321 | ug/1 | 99 |
| 65) Chlorobenzene | 11.888 | 112 | 86997 | 9.485 | ug/1 | 98 |
| 66) 1,1,1,2-Tetrachloroethane | 11.959 | 131 | 28657 | 9.471 | ug/1 | 97 |
| 67) Ethyl Benzene | 11.959 | 91 | 153929 | 9.300 | ug/1 | 99 |
| 68) m/p-Xylenes | 12.065 | 106 | 115926 | 18.692 | ug/1 | 99 |
| 69) o-Xylene | 12.394 | 106 | 58314 | 9.508 | ug/1 | 99 |
| 70) Styrene | 12.406 | 104 | 95045 | 9.301 | ug/1 | 100 |
| 71) Bromoform | 12.576 | 173 | 21240 | 9.323 | ug/1 # | 100 |
| 73) Isopropylbenzene | 12.694 | 105 | 142461 | 9.757 | ug/1 | 100 |
| 74) N-amyl acetate | 12.488 | 43 | 67074 | 9.228 | ug/1 | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.935 | 83 | 42167 | 10.045 | ug/1 | 100 |
| 76) 1,2,3-Trichloropropane | 12.988 | 75 | 41148m | 9.813 | ug/1 | |
| 77) Bromobenzene | 12.976 | 156 | 32305 | 9.986 | ug/1 | 99 |
| 78) n-propylbenzene | 13.035 | 91 | 165250 | 9.605 | ug/1 | 99 |
| 79) 2-Chlorotoluene | 13.123 | 91 | 103789 | 9.641 | ug/1 | 100 |
| 80) 1,3,5-Trimethylbenzene | 13.170 | 105 | 113458 | 9.494 | ug/1 | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.735 | 75 | 17595 | 10.033 | ug/1 | 92 |
| 82) 4-Chlorotoluene | 13.217 | 91 | 101784 | 9.518 | ug/1 | 99 |
| 83) tert-Butylbenzene | 13.435 | 119 | 99779 | 9.636 | ug/1 | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.476 | 105 | 116448 | 9.573 | ug/1 | 99 |
| 85) sec-Butylbenzene | 13.612 | 105 | 139108 | 9.686 | ug/1 | 99 |
| 86) p-Isopropyltoluene | 13.729 | 119 | 113316 | 9.572 | ug/1 | 99 |
| 87) 1,3-Dichlorobenzene | 13.729 | 146 | 57753 | 9.497 | ug/1 | 100 |
| 88) 1,4-Dichlorobenzene | 13.806 | 146 | 57656 | 9.412 | ug/1 | 98 |
| 89) n-Butylbenzene | 14.053 | 91 | 98010 | 9.340 | ug/1 | 99 |
| 90) Hexachloroethane | 14.329 | 117 | 18922 | 9.503 | ug/1 | 100 |
| 91) 1,2-Dichlorobenzene | 14.106 | 146 | 55856 | 9.473 | ug/1 | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.717 | 75 | 8165 | 9.646 | ug/1 | 98 |
| 93) 1,2,4-Trichlorobenzene | 15.388 | 180 | 26050 | 9.227 | ug/1 | 99 |
| 94) Hexachlorobutadiene | 15.494 | 225 | 10205 | 9.575 | ug/1 | 97 |
| 95) Naphthalene | 15.635 | 128 | 92844 | 9.277 | ug/1 | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.835 | 180 | 24879 | 9.308 | ug/1 | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041525\
Data File : VN086279.D
Acq On : 15 Apr 2025 12:45
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :John Carbone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

Quant Time: Apr 16 03:56:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 16 03:42:50 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

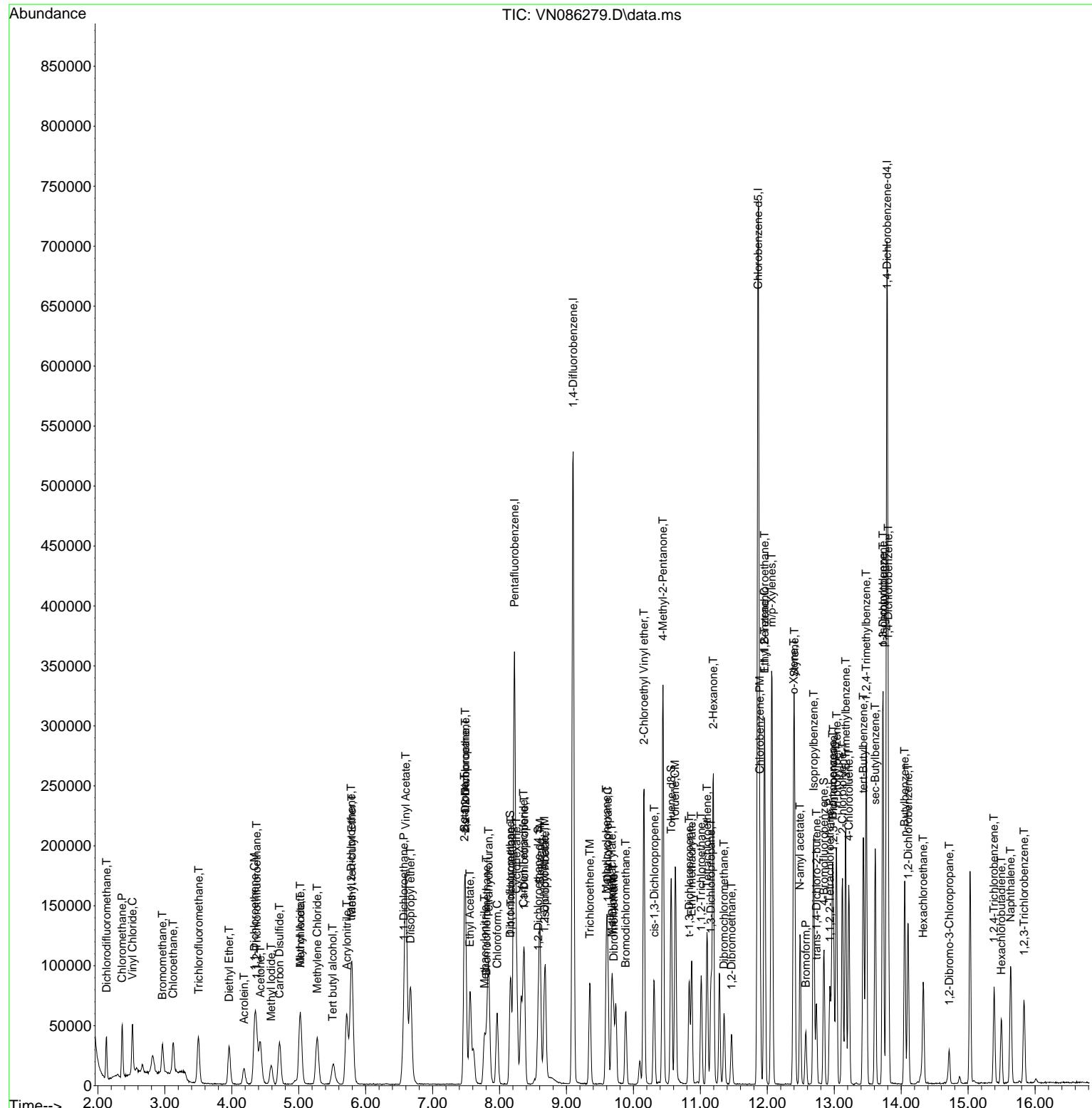
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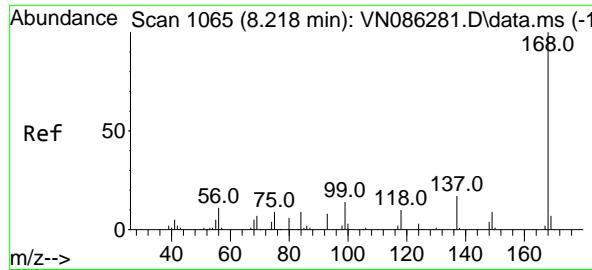
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Data File : VN086279.D
Acq On : 15 Apr 2025 12:45
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

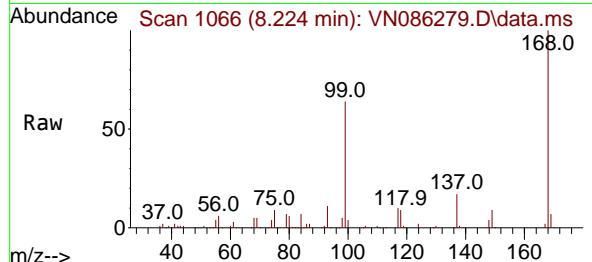
Reviewed By :John Carbone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45

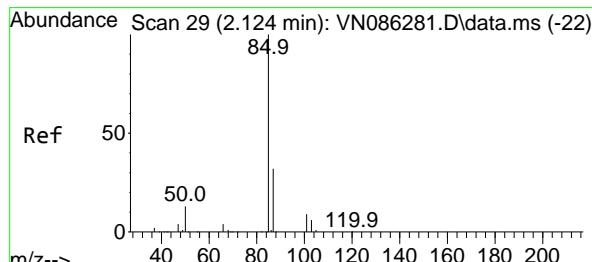
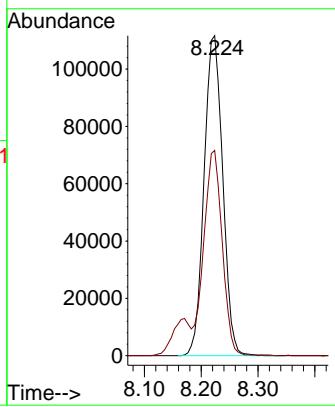
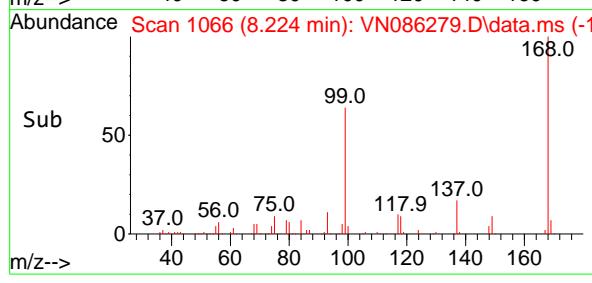
Instrument : MSVOA_N
ClientSampleId : VSTDICC010



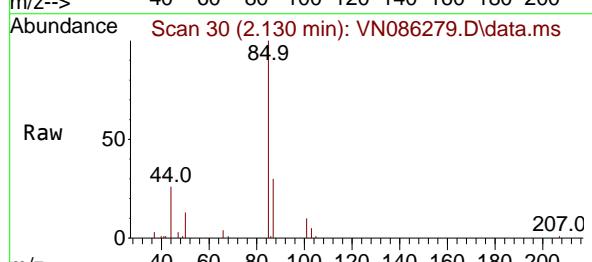
Tgt Ion:168 Resp: 253570
Ion Ratio Lower Upper
168 100
99 64.1 52.5 78.7

Manual Integrations APPROVED

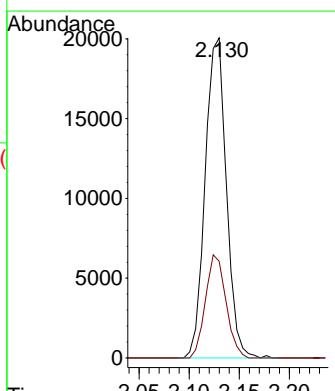
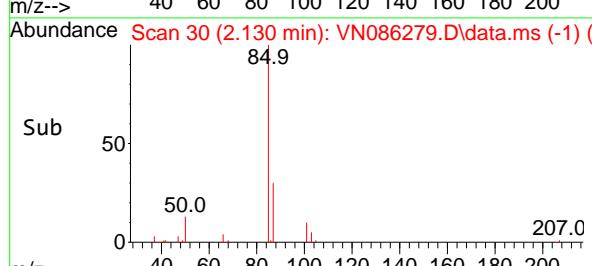
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

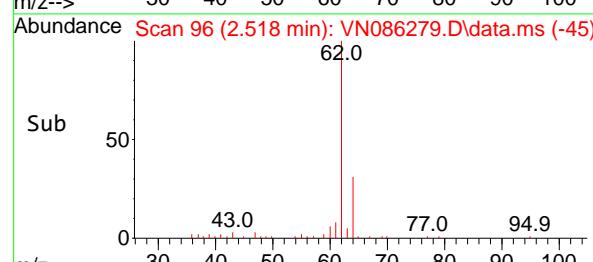
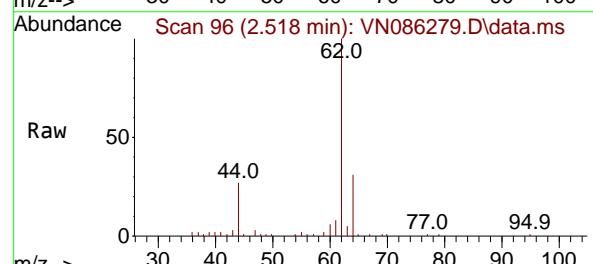
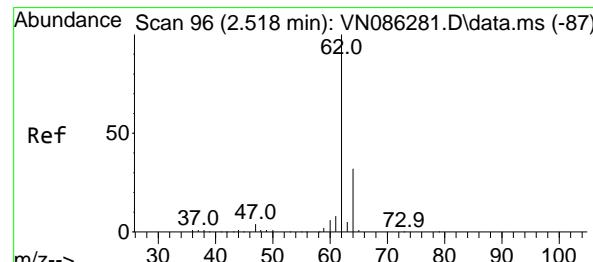
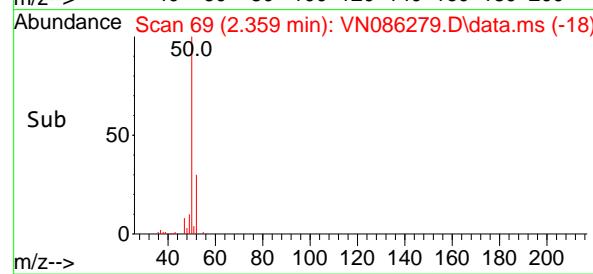
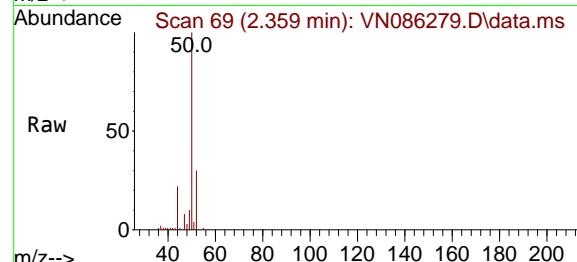
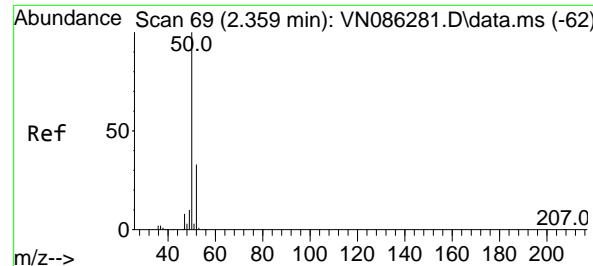


#2
Dichlorodifluoromethane
Concen: 9.821 ug/l
RT: 2.130 min Scan# 30
Delta R.T. 0.006 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45



Tgt Ion: 85 Resp: 29521
Ion Ratio Lower Upper
85 100
87 30.2 16.3 48.8





#3

Chloromethane

Concen: 9.094 ug/l

RT: 2.359 min Scan# 6

Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

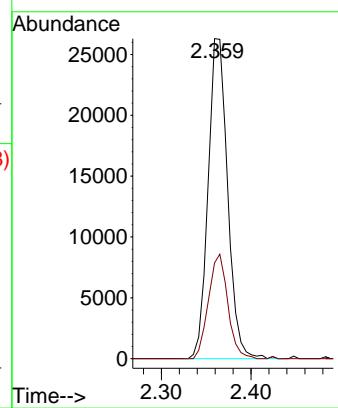
Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#4

Vinyl Chloride

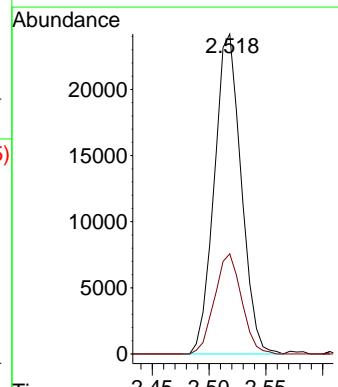
Concen: 9.551 ug/l

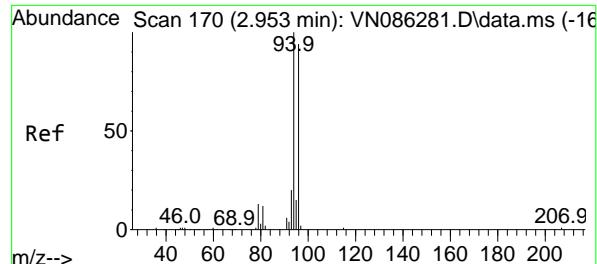
RT: 2.518 min Scan# 96

Delta R.T. -0.000 min

Lab File: VN086279.D

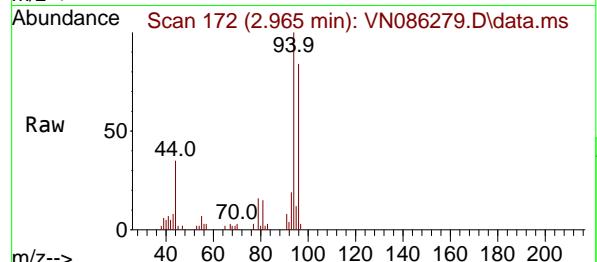
Acq: 15 Apr 2025 12:45

 Tgt Ion: 62 Resp: 39819
 Ion Ratio Lower Upper
 62 100
 64 31.3 25.6 38.4




#5
Bromomethane
Concen: 10.013 ug/l
RT: 2.965 min Scan# 1
Delta R.T. 0.012 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45

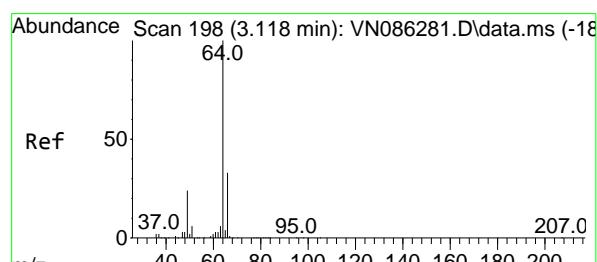
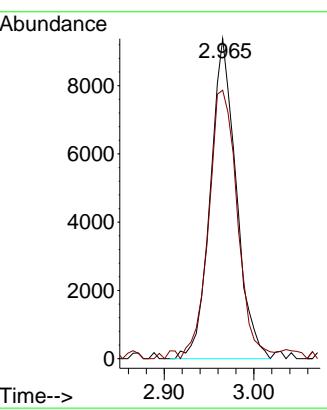
Instrument : MSVOA_N
ClientSampleId : VSTDICC010



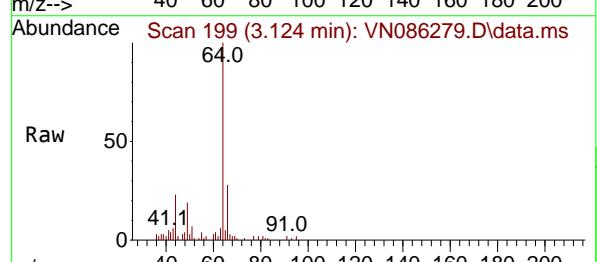
Tgt Ion: 94 Resp: 18770
Ion Ratio Lower Upper
94 100
96 81.7 75.2 112.8

Manual Integrations APPROVED

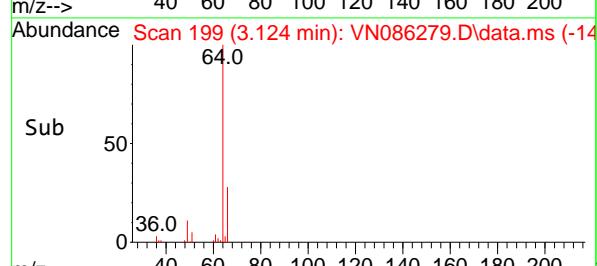
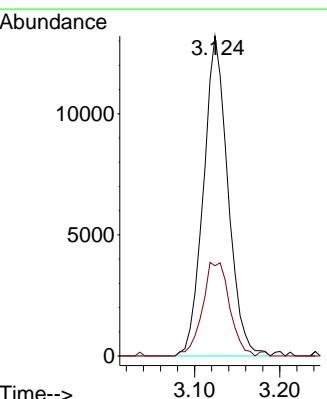
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

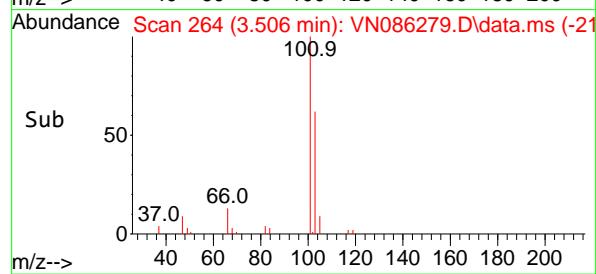
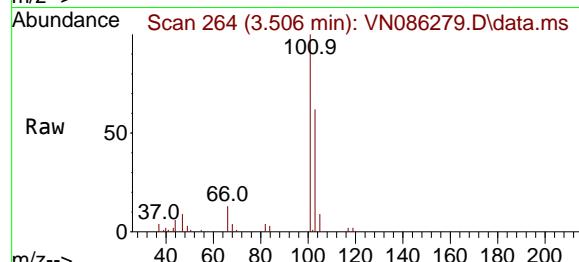
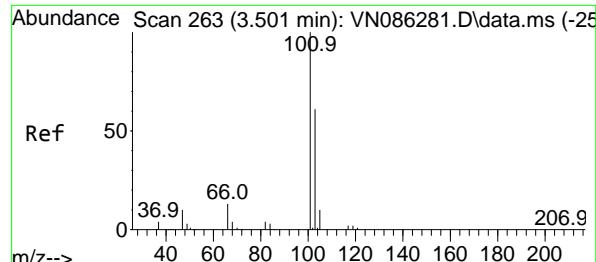


#6
Chloroethane
Concen: 9.439 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.006 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45



Tgt Ion: 64 Resp: 26337
Ion Ratio Lower Upper
64 100
66 28.2 26.2 39.2





#7

Trichlorofluoromethane

Concen: 9.428 ug/l

RT: 3.506 min Scan# 2

Delta R.T. 0.006 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

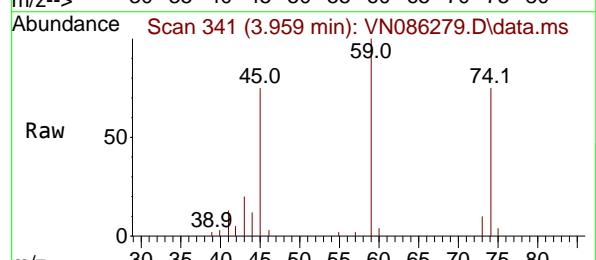
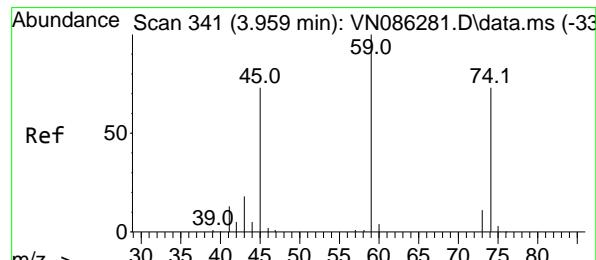
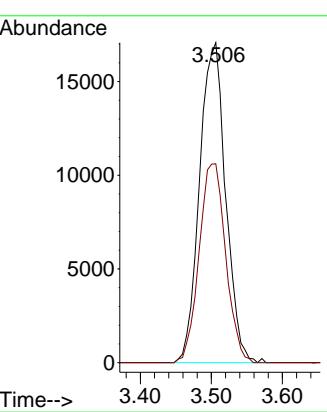
Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#8

Diethyl Ether

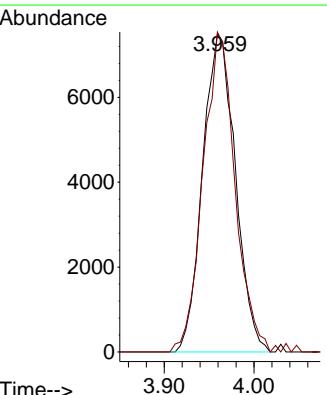
Concen: 9.425 ug/l

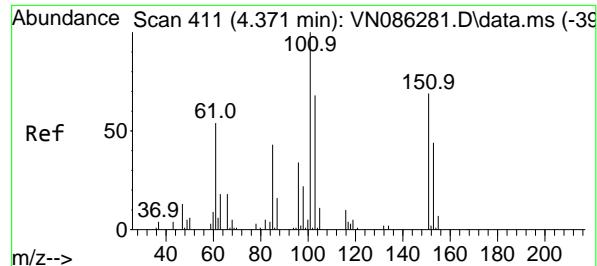
RT: 3.959 min Scan# 341

Delta R.T. -0.000 min

Lab File: VN086279.D

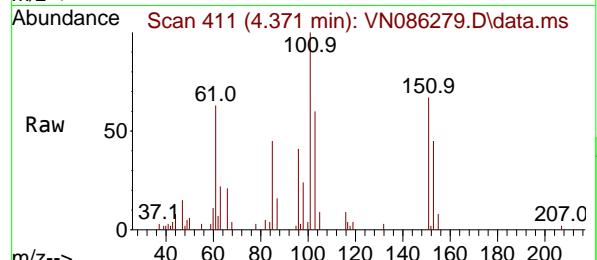
Acq: 15 Apr 2025 12:45

 Tgt Ion: 74 Resp: 19000
 Ion Ratio Lower Upper
 74 100
 45 98.3 48.0 144.2




#9
1,1,2-Trichlorotrifluoroethane
Concen: 9.478 ug/l
RT: 4.371 min Scan# 4
Delta R.T. -0.000 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45

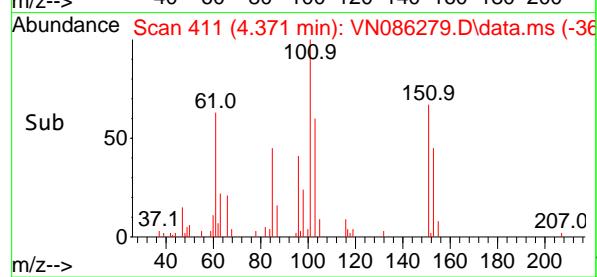
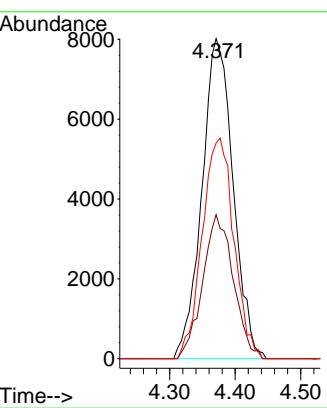
Instrument : MSVOA_N
ClientSampleId : VSTDICC010



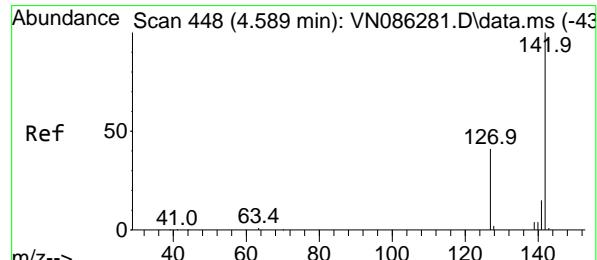
Tgt Ion:101 Resp: 26473
Ion Ratio Lower Upper
101 100
85 44.2 34.7 52.1
151 69.8 56.1 84.1

Manual Integrations APPROVED

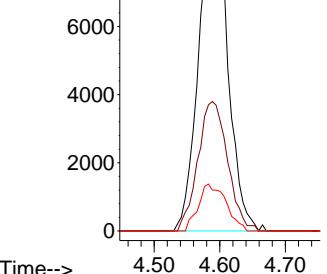
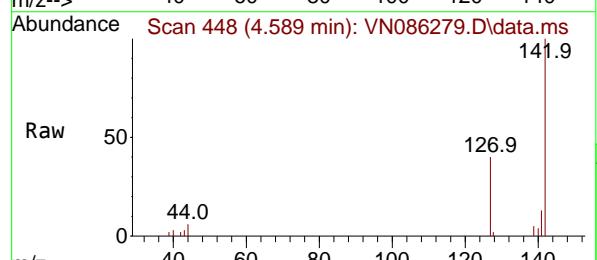
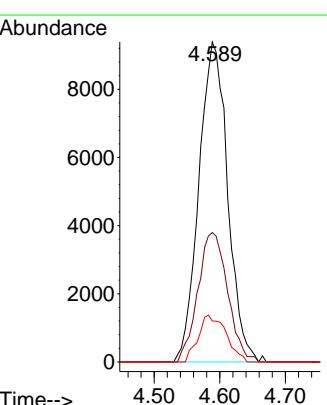
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

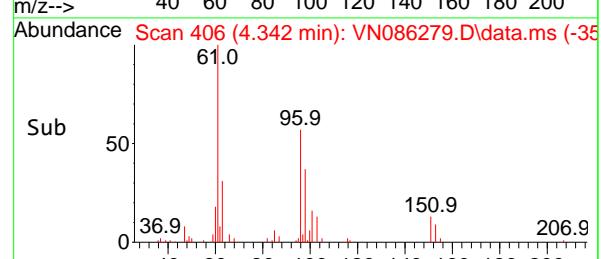
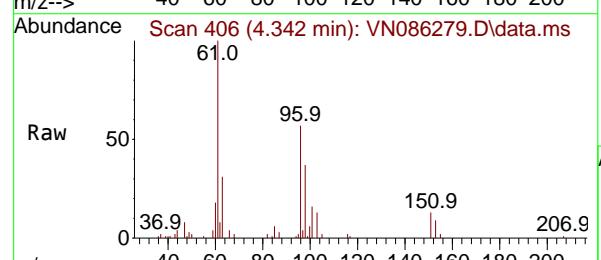
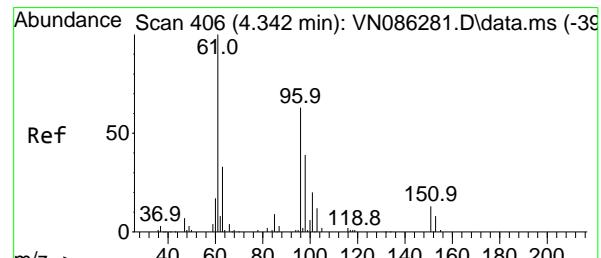
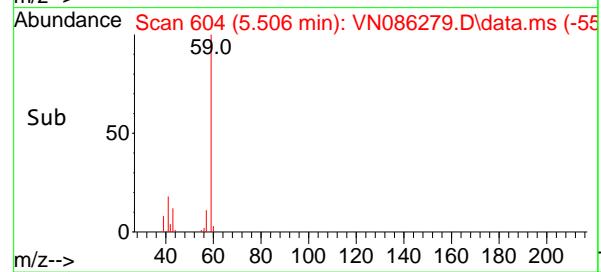
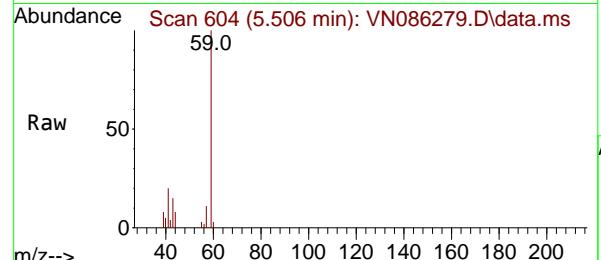
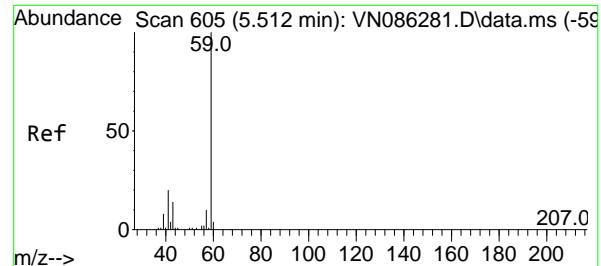


#10
Methyl Iodide
Concen: 9.308 ug/l
RT: 4.589 min Scan# 448
Delta R.T. -0.000 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45



Tgt Ion:142 Resp: 28586
Ion Ratio Lower Upper
142 100
127 40.4 32.7 49.1
141 12.8 11.7 17.5





#11

Tert butyl alcohol

Concen: 51.188 ug/l

RT: 5.506 min Scan# 6

Delta R.T. -0.006 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

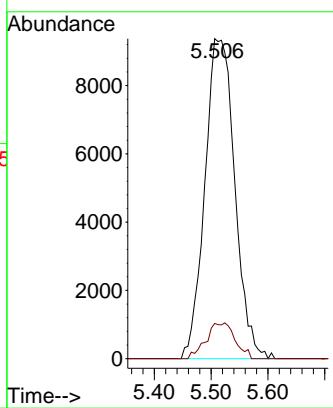
Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#12

1,1-Dichloroethene

Concen: 9.389 ug/l

RT: 4.342 min Scan# 406

Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

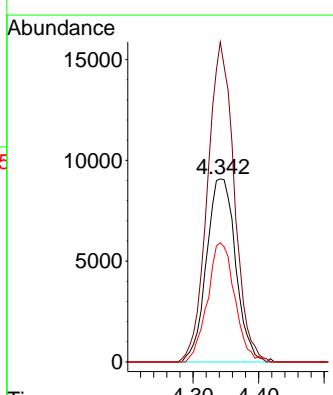
Tgt Ion: 96 Resp: 28022

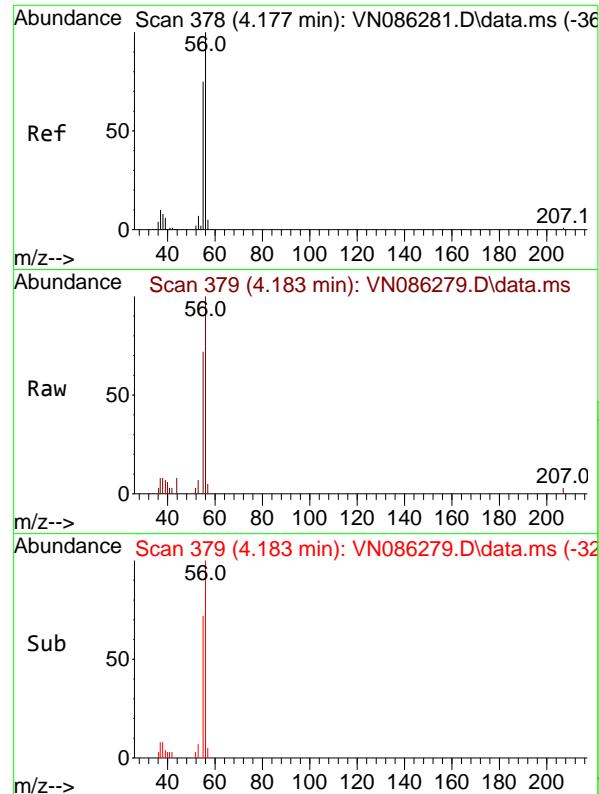
Ion Ratio Lower Upper

96 100

61 174.9 126.6 189.8

98 65.1 49.6 74.4





#13

Acrolein

Concen: 44.165 ug/l

RT: 4.183 min Scan# 3

Delta R.T. 0.006 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

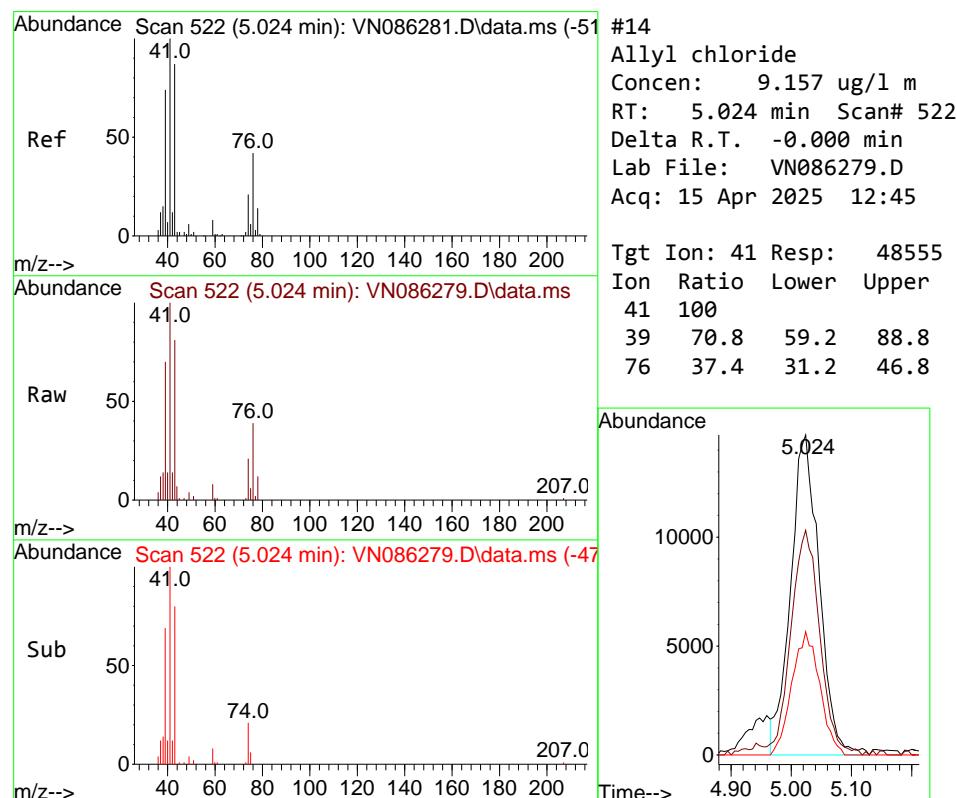
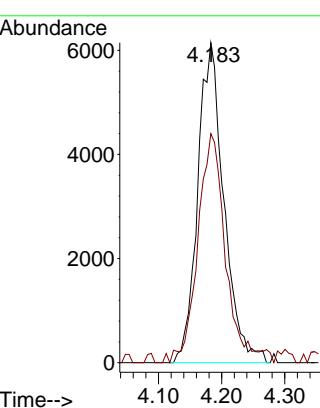
Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#14

Allyl chloride

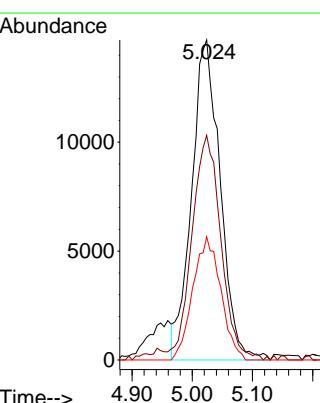
Concen: 9.157 ug/l m

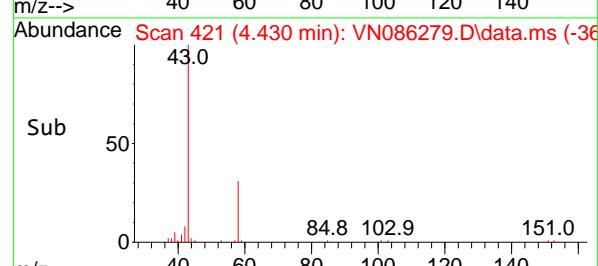
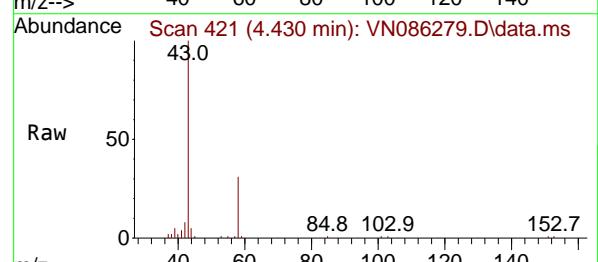
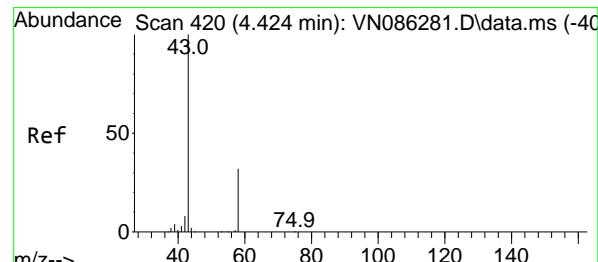
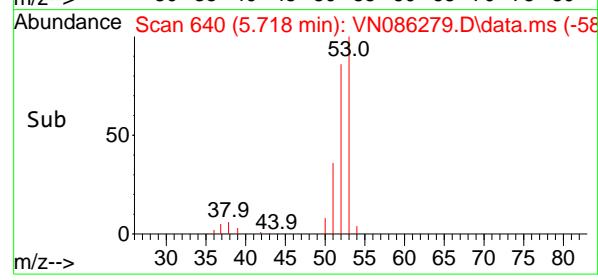
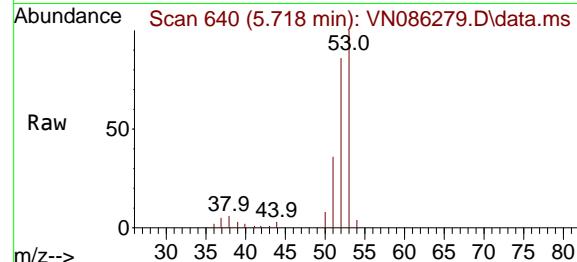
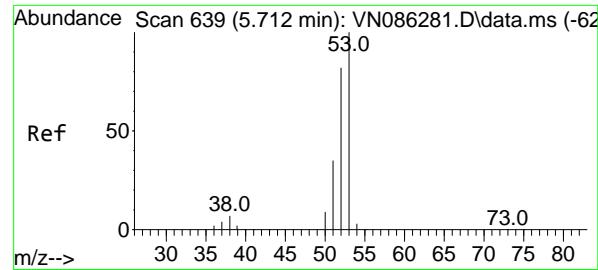
RT: 5.024 min Scan# 522

Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

 Tgt Ion: 41 Resp: 48555
 Ion Ratio Lower Upper
 41 100
 39 70.8 59.2 88.8
 76 37.4 31.2 46.8




#15

Acrylonitrile

Concen: 47.141 ug/l

RT: 5.718 min Scan# 6

Delta R.T. 0.006 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 53 Resp: 78184

Ion Ratio Lower Upper

53 100

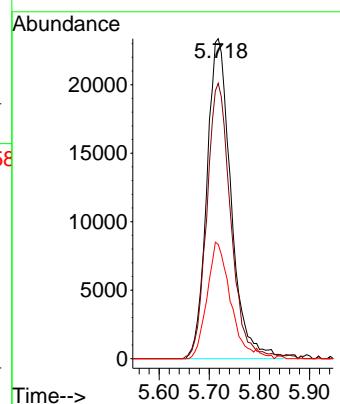
52 85.3 65.5 98.3

51 35.8 28.6 42.8

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#16

Acetone

Concen: 45.485 ug/l

RT: 4.430 min Scan# 421

Delta R.T. 0.006 min

Lab File: VN086279.D

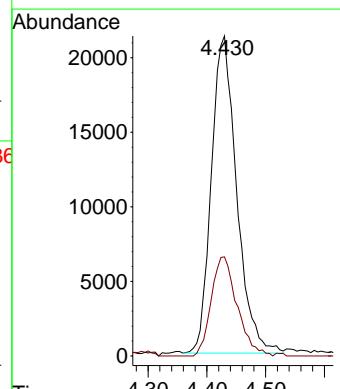
Acq: 15 Apr 2025 12:45

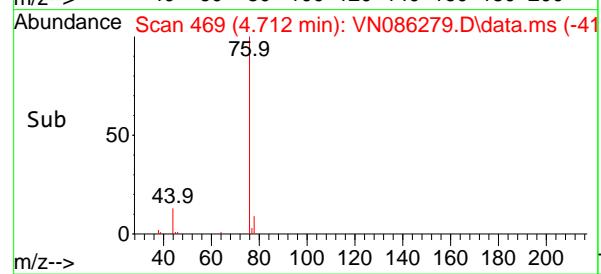
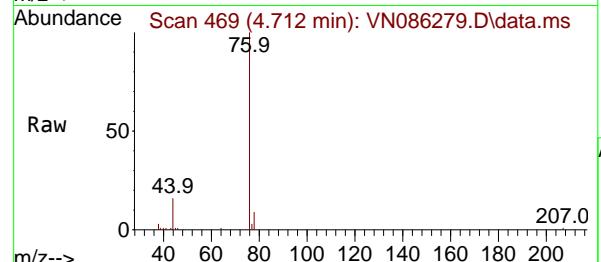
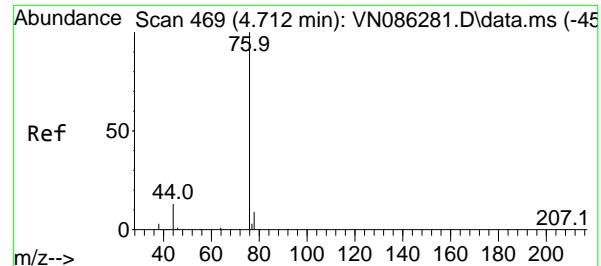
Tgt Ion: 43 Resp: 63789

Ion Ratio Lower Upper

43 100

58 31.2 25.3 37.9





#17

Carbon Disulfide

Concen: 9.090 ug/l

RT: 4.712 min Scan# 4

Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

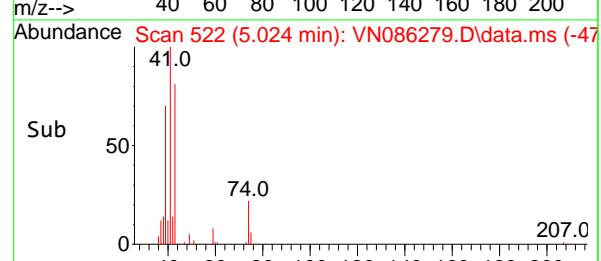
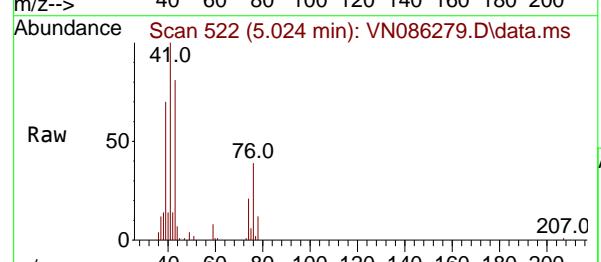
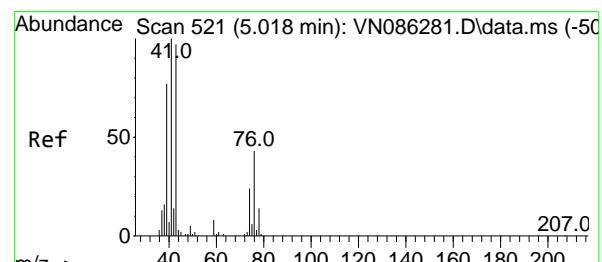
Instrument:

MSVOA_N

ClientSampleId :

VSTDICC010

Manual Integrations
APPROVED

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#18

Methyl Acetate

Concen: 9.413 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.006 min

Lab File: VN086279.D

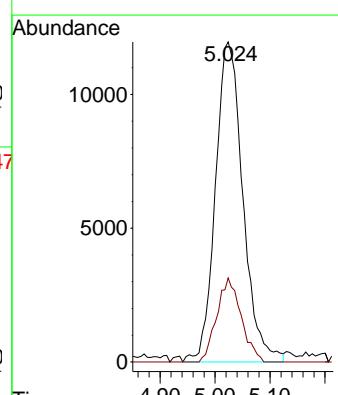
Acq: 15 Apr 2025 12:45

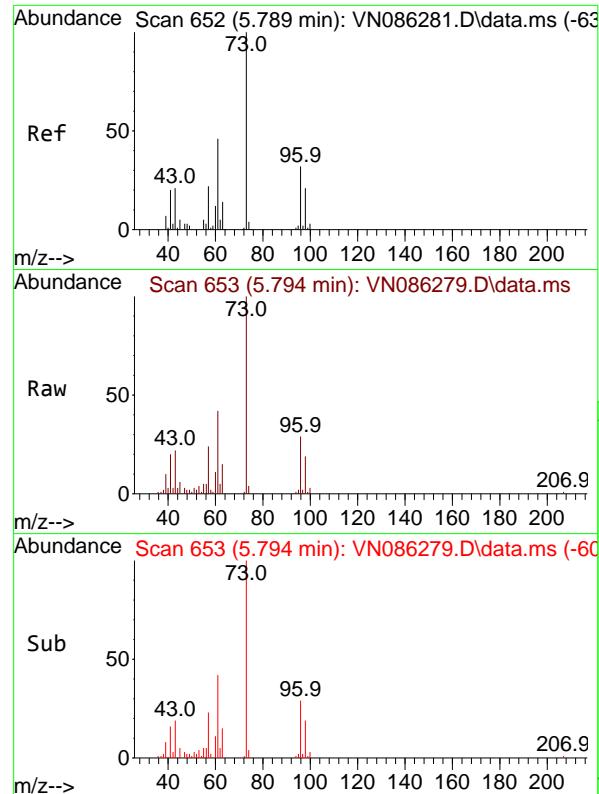
Tgt Ion: 43 Resp: 41546

Ion Ratio Lower Upper

43 100

74 23.2 19.8 29.6





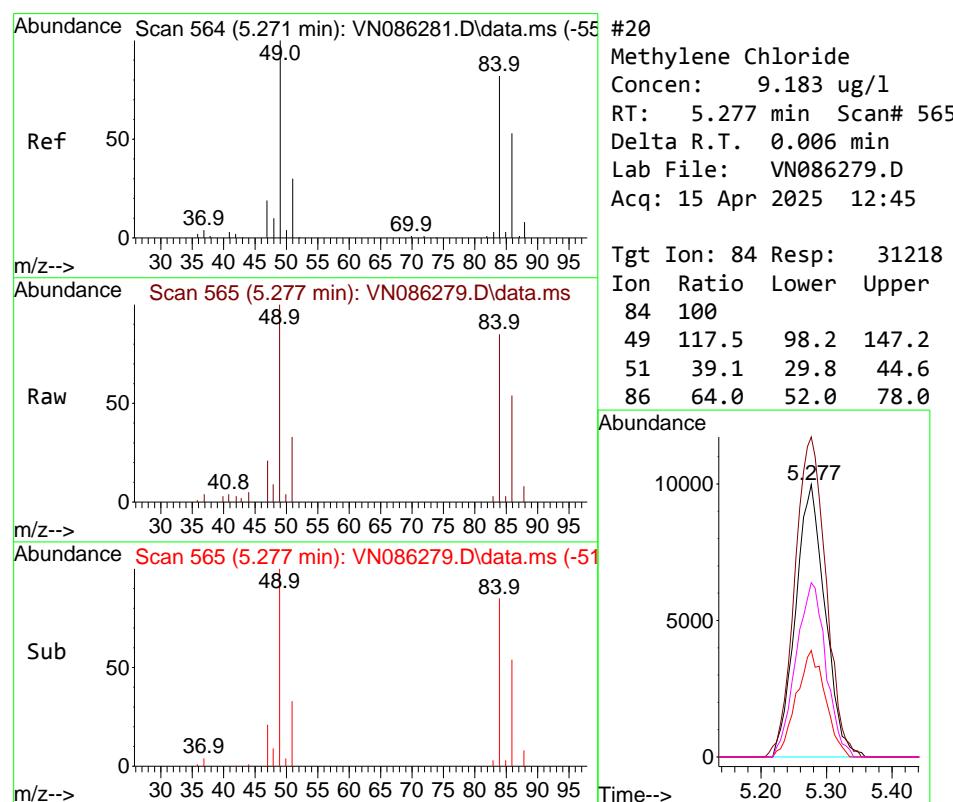
#19

Methyl tert-butyl Ether
Concen: 9.304 ug/l
RT: 5.794 min Scan# 6
Delta R.T. 0.006 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45

Instrument : MSVOA_N
ClientSampleId : VSTDICC010

Manual Integrations APPROVED

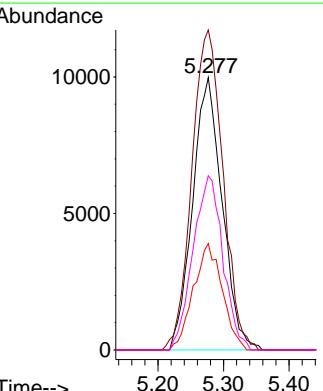
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

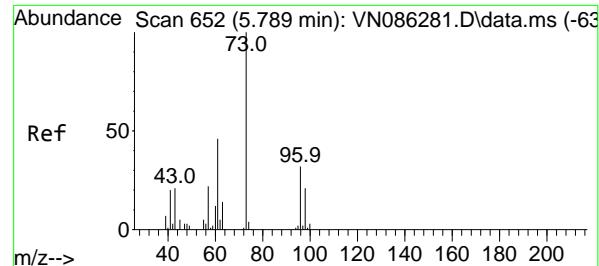


#20

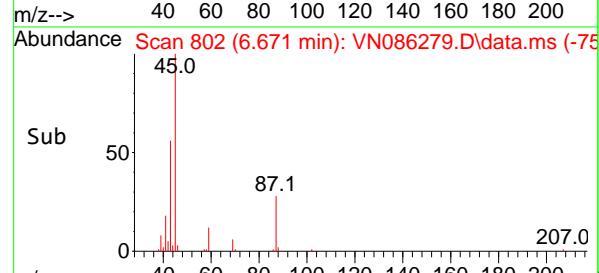
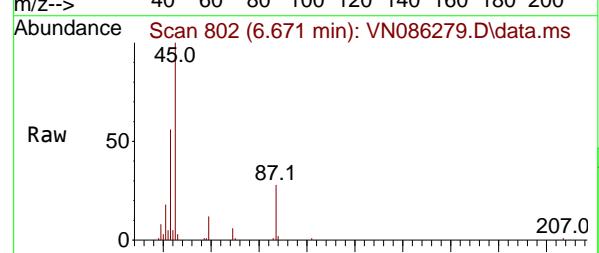
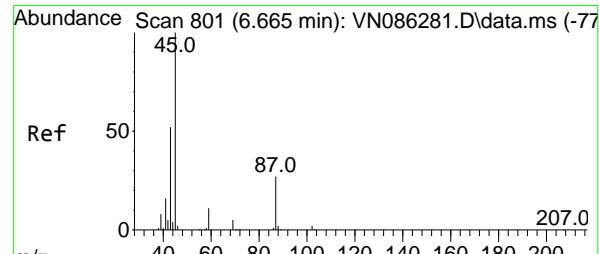
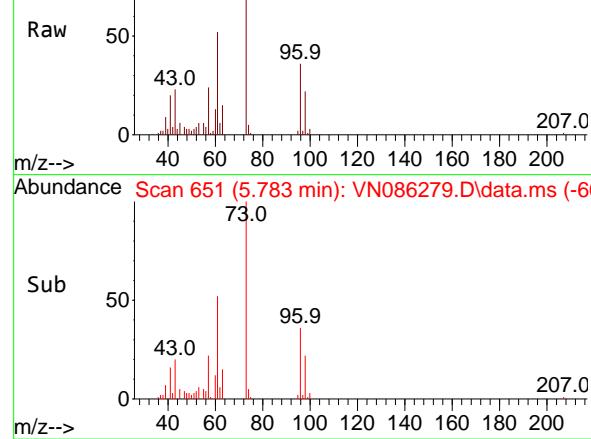
Methylene Chloride
Concen: 9.183 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.006 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45

Tgt Ion: 84 Resp: 31218
Ion Ratio Lower Upper
84 100
49 117.5 98.2 147.2
51 39.1 29.8 44.6
86 64.0 52.0 78.0





Abundance Scan 651 (5.783 min): VN086279.D\data.ms



#21

trans-1,2-Dichloroethene

Concen: 9.060 ug/l

RT: 5.783 min Scan# 6

Delta R.T. -0.006 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

Instrument:

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 96 Resp: 2827:

Ion Ratio Lower Upper

96 100

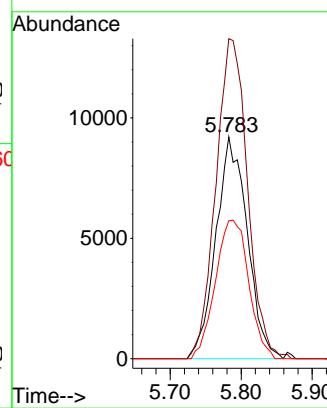
61 144.3 114.6 171.8

98 62.1 51.2 76.8

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#22

Diisopropyl ether

Concen: 9.259 ug/l

RT: 6.671 min Scan# 802

Delta R.T. 0.006 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

Tgt Ion: 45 Resp: 106867

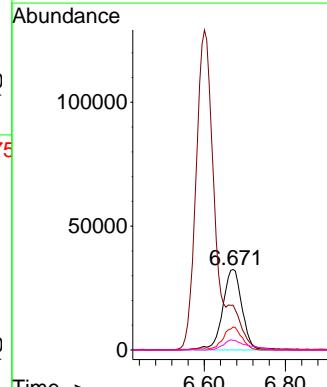
Ion Ratio Lower Upper

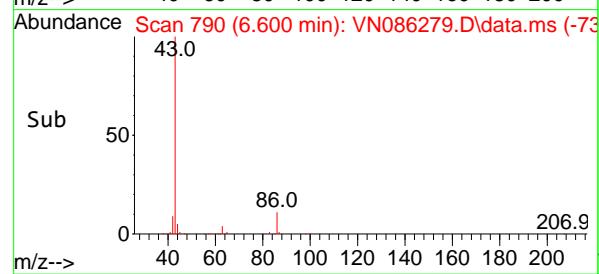
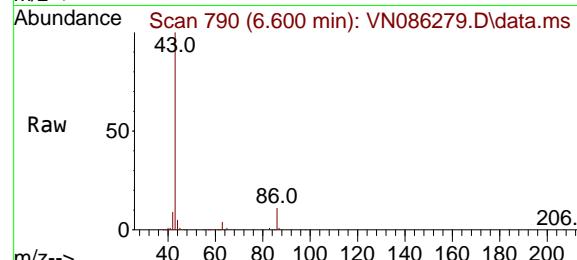
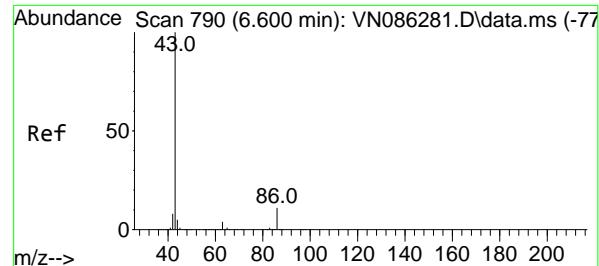
45 100

43 54.4 41.8 62.8

87 28.4 21.6 32.4

59 11.9 9.0 13.4





#23

Vinyl Acetate

Concen: 47.903 ug/l

RT: 6.600 min Scan# 7

Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

Instrument:

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 43 Resp: 386388

Ion Ratio Lower Upper

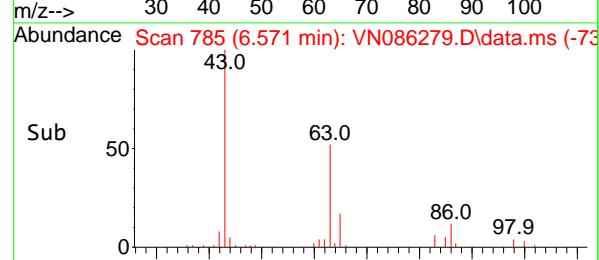
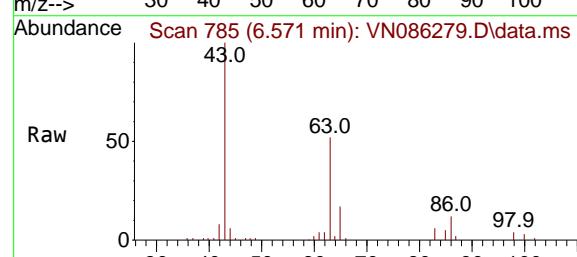
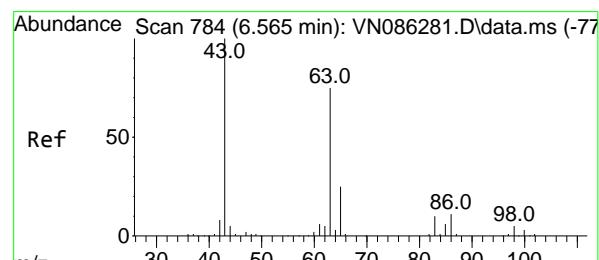
43 100

86 10.9 8.6 13.0

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#24

1,1-Dichloroethane

Concen: 9.345 ug/l

RT: 6.571 min Scan# 785

Delta R.T. 0.006 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

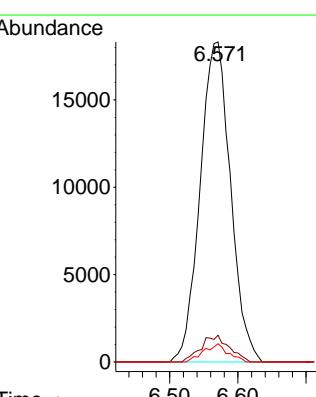
Tgt Ion: 63 Resp: 56906

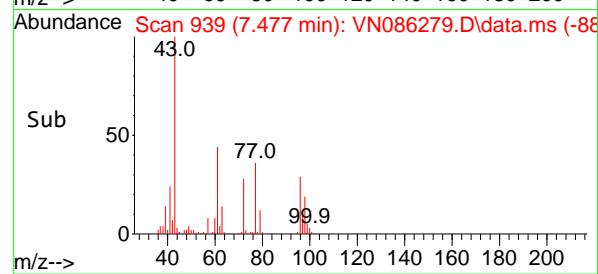
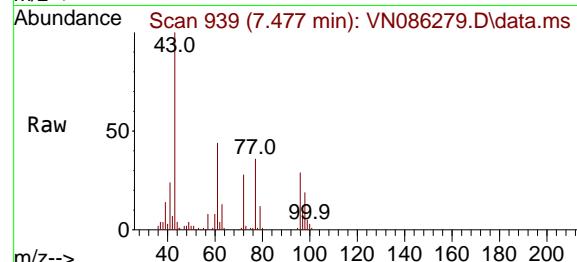
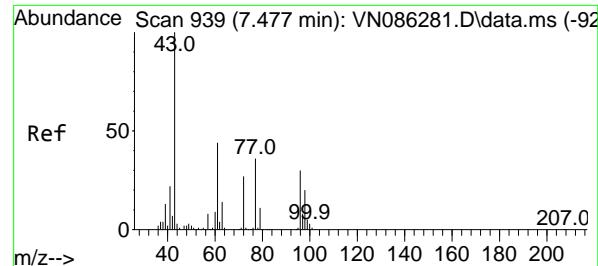
Ion Ratio Lower Upper

63 100

98 8.4 3.4 10.2

100 5.7 2.1 6.5



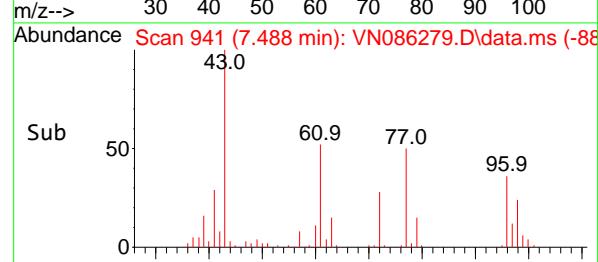
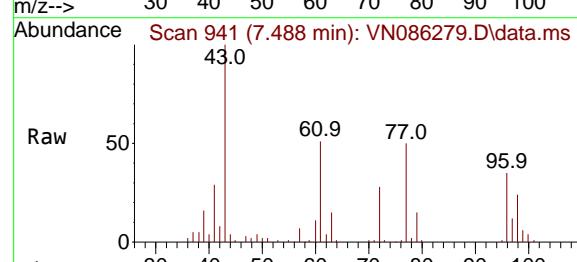
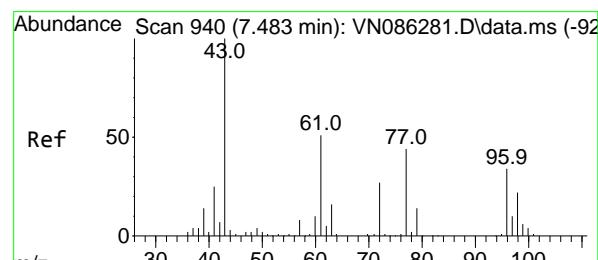
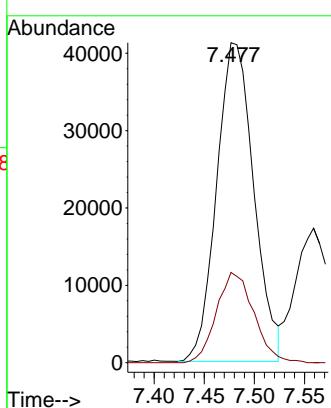


#25
2-Butanone
Concen: 46.500 ug/l
RT: 7.477 min Scan# 9
Instrument : MSVOA_N
Delta R.T. -0.000 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45

ClientSampleId : VSTDICC010

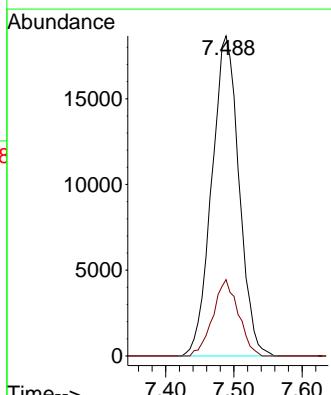
Manual Integrations APPROVED

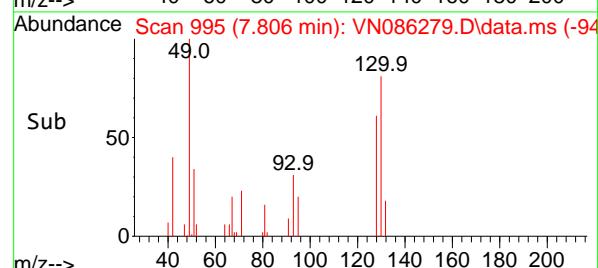
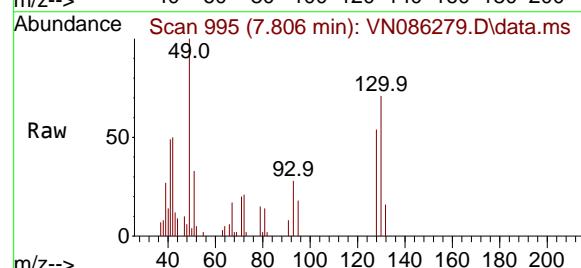
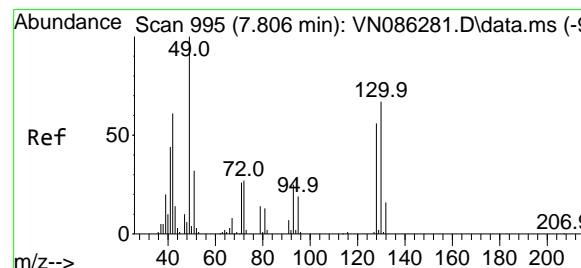
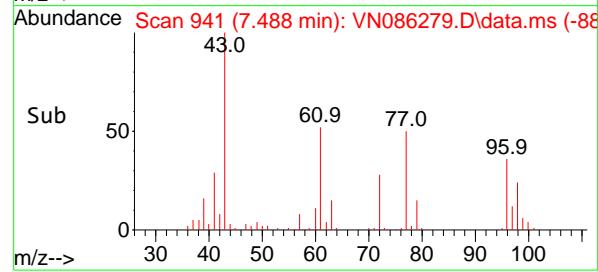
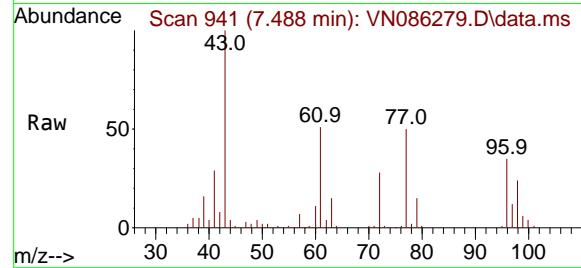
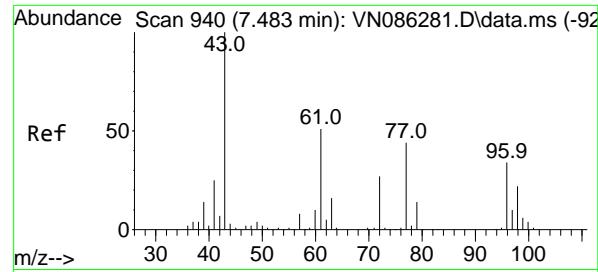
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#26
2,2-Dichloropropane
Concen: 9.525 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45

Tgt Ion: 77 Resp: 51934
Ion Ratio Lower Upper
77 100
97 22.3 11.2 33.5





#27

cis-1,2-Dichloroethene

Concen: 9.084 ug/l

RT: 7.488 min Scan# 9

Delta R.T. 0.006 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

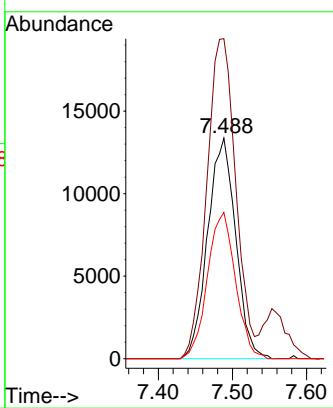
Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#28

Bromochloromethane

Concen: 8.557 ug/l

RT: 7.806 min Scan# 995

Delta R.T. -0.000 min

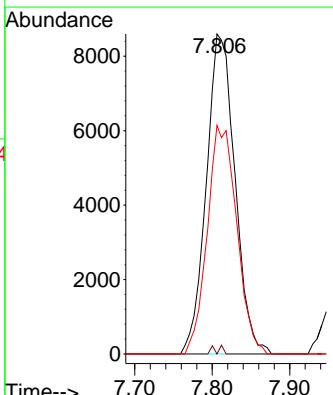
Lab File: VN086279.D

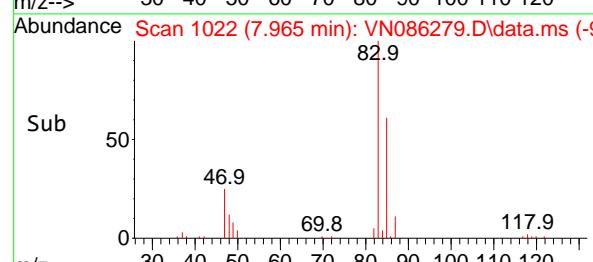
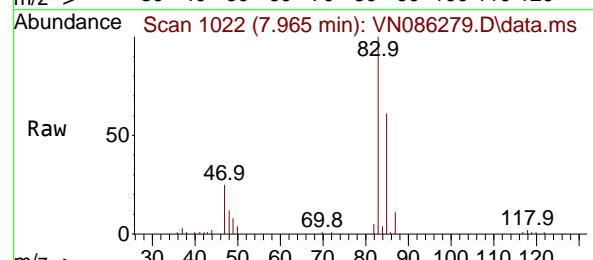
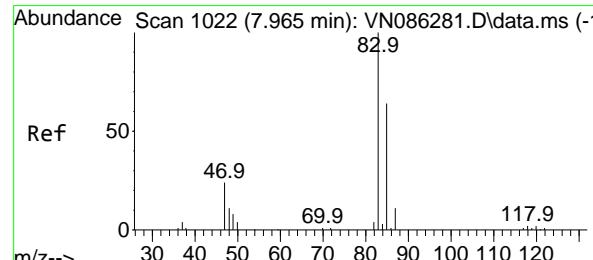
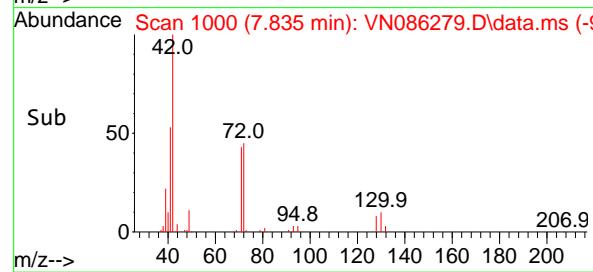
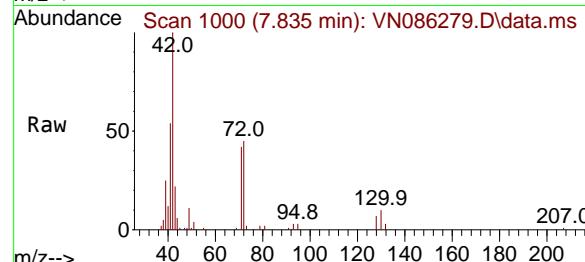
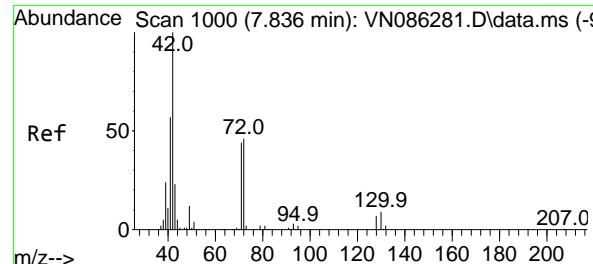
Acq: 15 Apr 2025 12:45

Tgt Ion: 49 Resp: 22094

Ion Ratio Lower Upper

| | | | |
|-----|------|------|------|
| 49 | 100 | | |
| 129 | 0.7 | 0.0 | 3.4 |
| 130 | 73.4 | 57.1 | 85.7 |





#29

Tetrahydrofuran

Concen: 47.462 ug/l

RT: 7.835 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

Instrument:

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 42 Resp: 7264

Ion Ratio Lower Upper

42 100

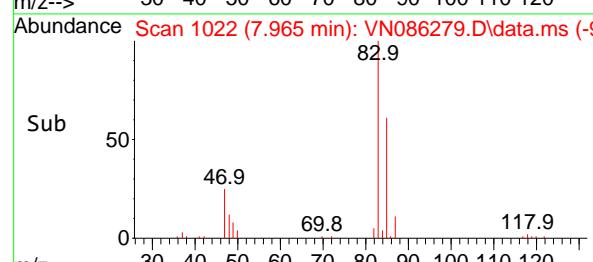
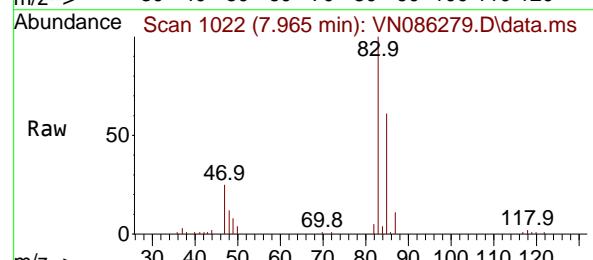
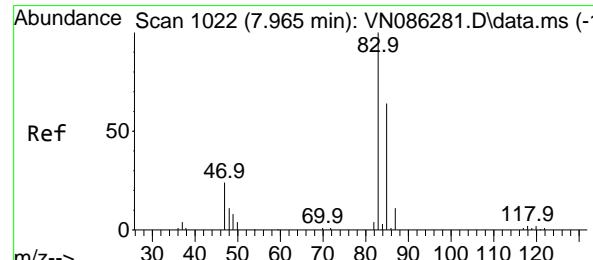
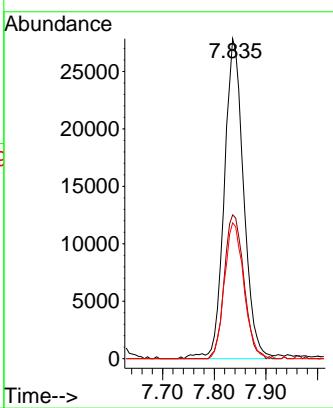
72 45.4 36.2 54.4

71 42.6 34.0 51.0

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#30

Chloroform

Concen: 9.511 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. -0.000 min

Lab File: VN086279.D

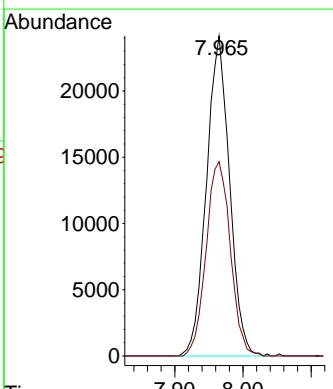
Acq: 15 Apr 2025 12:45

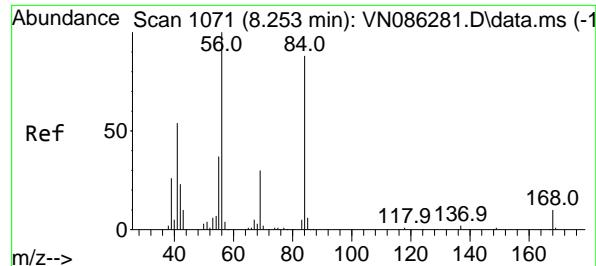
Tgt Ion: 83 Resp: 56896

Ion Ratio Lower Upper

83 100

85 60.7 51.5 77.3





#31

Cyclohexane

Concen: 9.699 ug/l

RT: 8.253 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086279.D

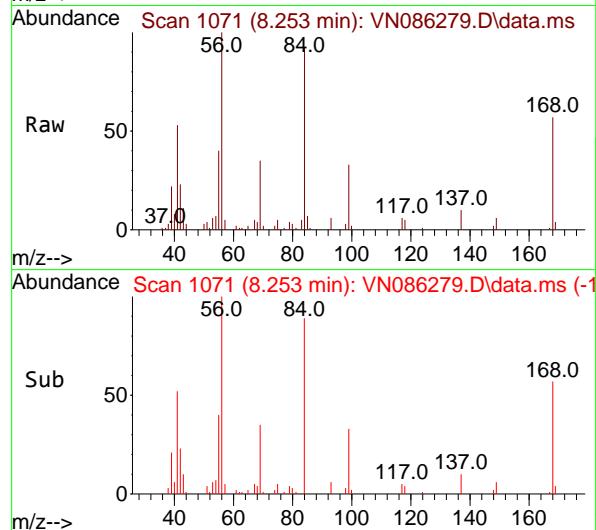
Acq: 15 Apr 2025 12:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010



Tgt Ion: 56 Resp: 57791

Ion Ratio Lower Upper

56 100

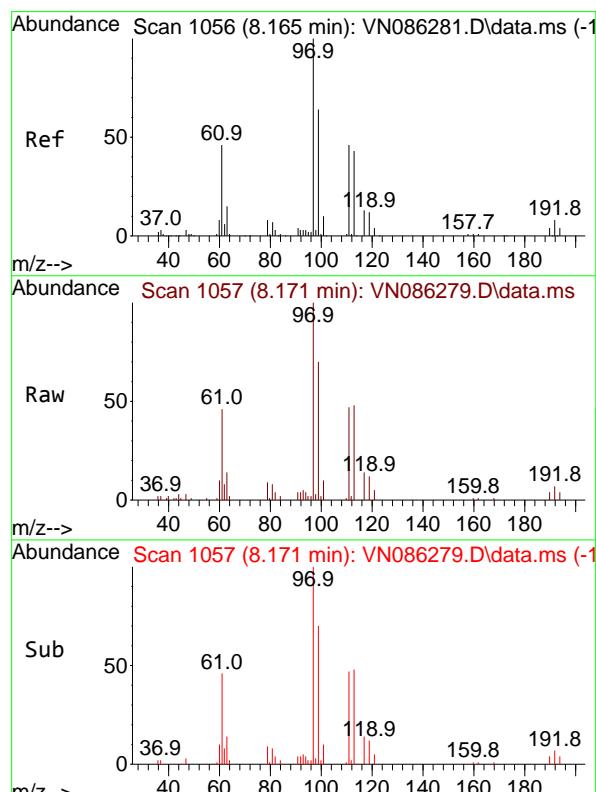
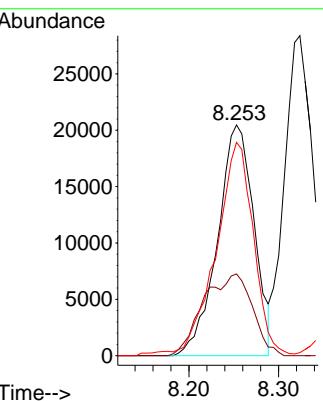
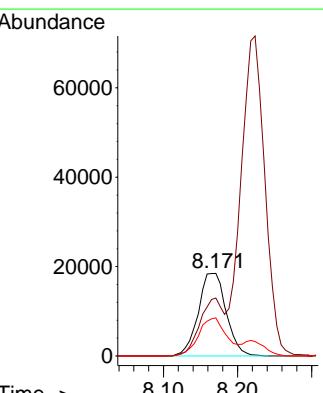
69 35.4 24.2 36.2

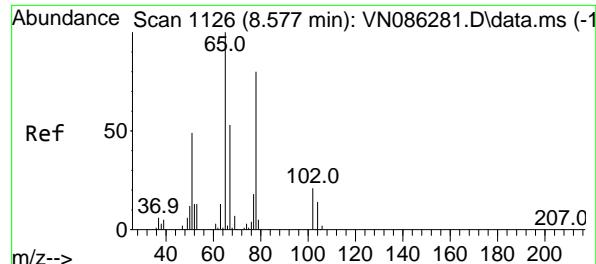
84 90.6 70.3 105.5

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/16/2025

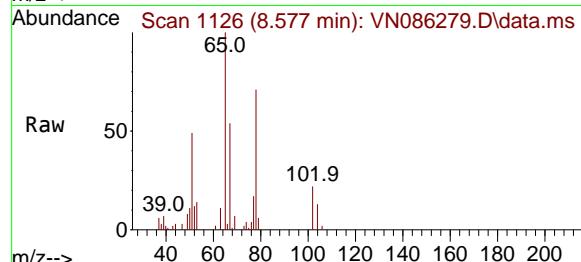
Supervised By :Semsettin Yesilyurt 04/16/2025

#32
1,1,1-Trichloroethane
Concen: 9.441 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. 0.006 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45Tgt Ion: 97 Resp: 48313
Ion Ratio Lower Upper
97 100
99 58.8 52.7 79.1
61 46.1 39.5 59.3



#33
1,2-Dichloroethane-d4
Concen: 10.272 ug/l
RT: 8.577 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45

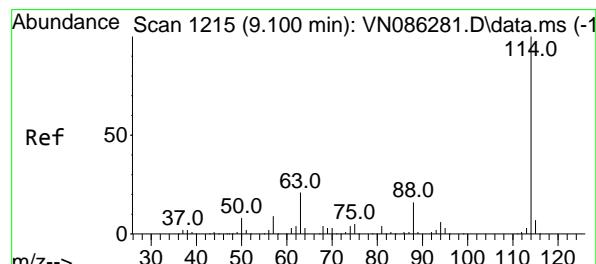
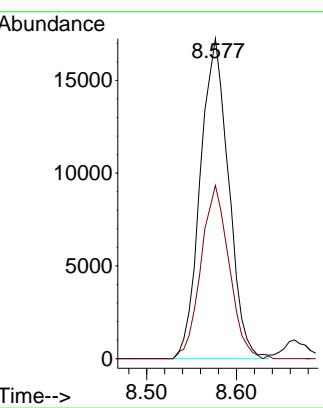
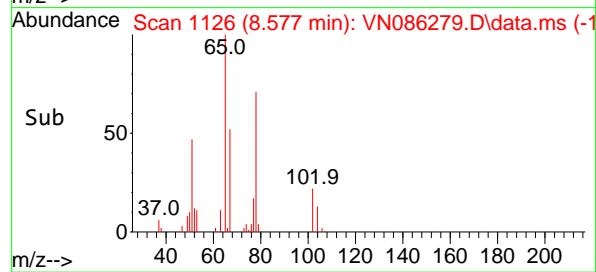
Instrument : MSVOA_N
ClientSampleId : VSTDICC010



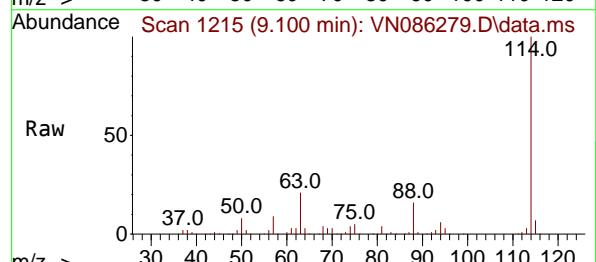
Tgt Ion: 65 Resp: 37770
Ion Ratio Lower Upper
65 100
67 53.8 0.0 106.0

Manual Integrations APPROVED

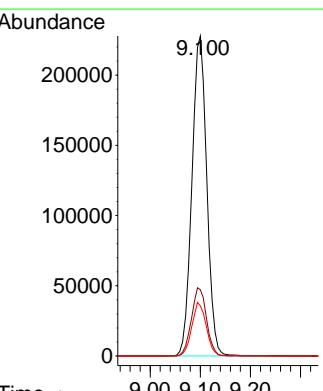
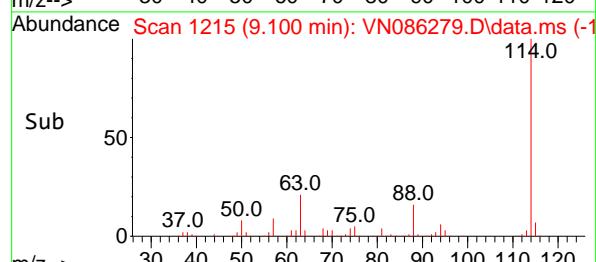
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

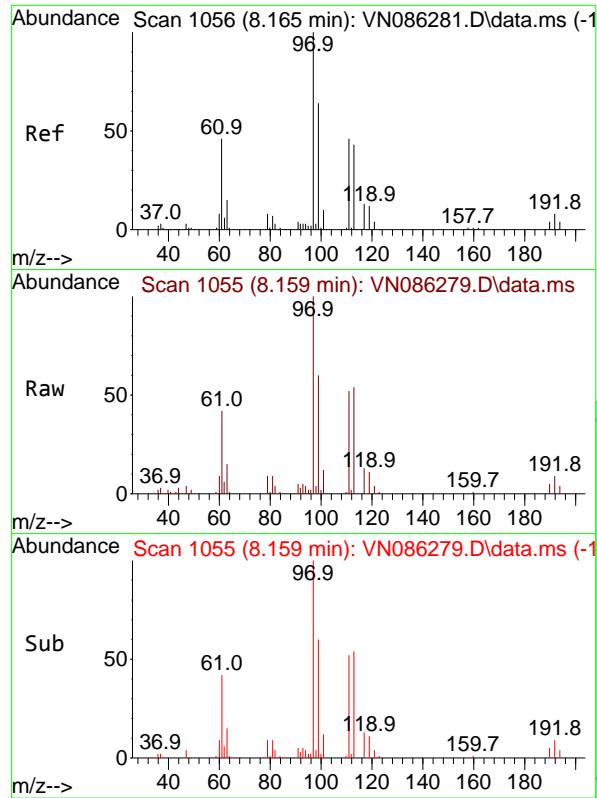


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.000 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45



Tgt Ion:114 Resp: 468933
Ion Ratio Lower Upper
114 100
63 20.7 0.0 42.6
88 15.7 0.0 31.8





#35

Dibromofluoromethane

Concen: 10.985 ug/l

RT: 8.159 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

Instrument:

MSVOA_N

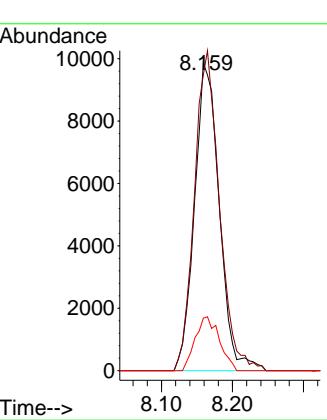
ClientSampleId :

VSTDICC010

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#36

1,1-Dichloropropene

Concen: 9.202 ug/l

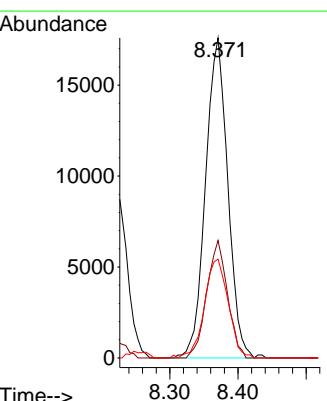
RT: 8.371 min Scan# 1091

Delta R.T. 0.006 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

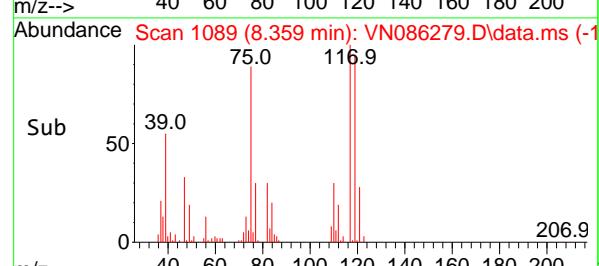
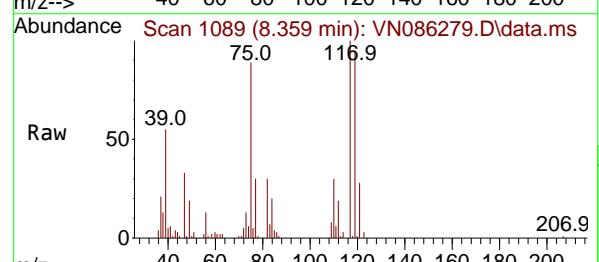
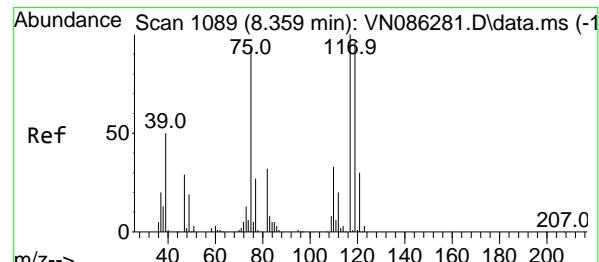
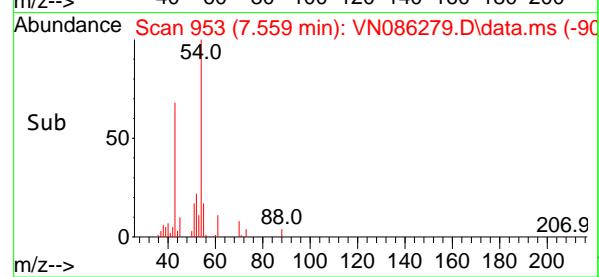
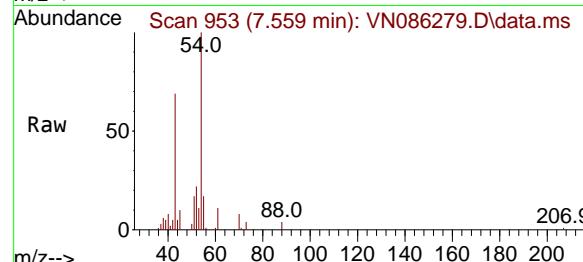
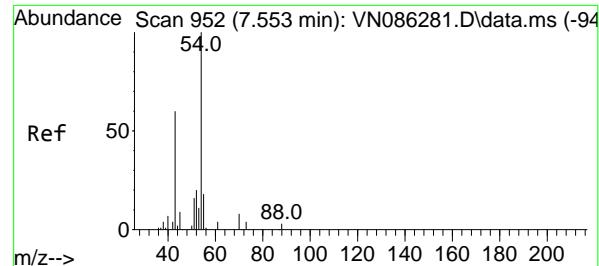
| Tgt | Ion: | 75 | Resp: | 39999 |
|-----|-------|-------|-------|-------|
| Ion | Ratio | Lower | Upper | |
| 75 | 100 | | | |
| 110 | 34.3 | 16.8 | 50.4 | |
| 77 | 33.0 | 24.9 | 37.3 | |



Scan 1091 (8.371 min): VN086279.D\data.ms (-1)

Scan 1091 (8.371 min): VN086279.D\data.ms (-1)

Scan 1091 (8.371 min): VN086279.D\data.ms (-1)



#37

Ethyl Acetate

Concen: 9.385 ug/l

RT: 7.559 min Scan# 9

Delta R.T. 0.006 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

Instrument:

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 43 Resp: 4295

Ion Ratio Lower Upper

43 100

61 14.6 11.1 16.7

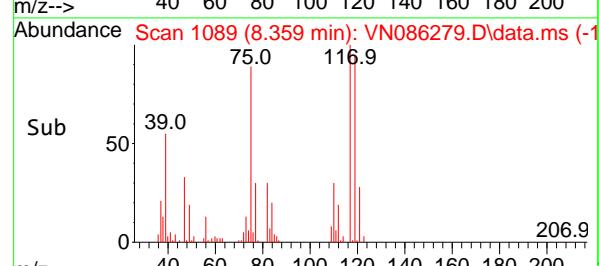
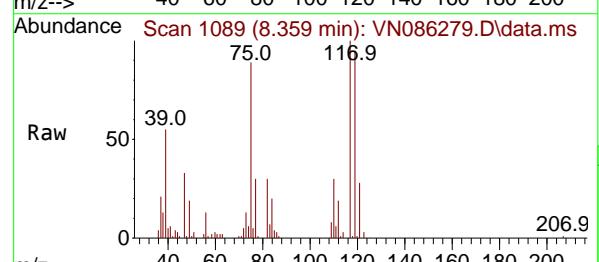
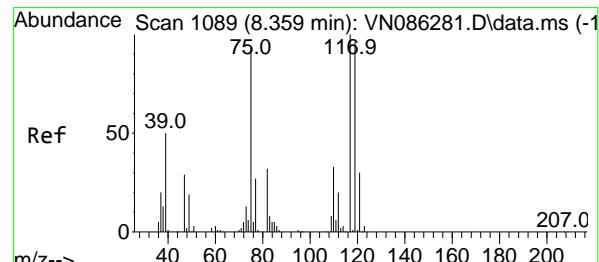
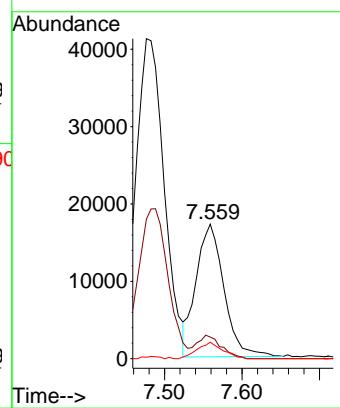
70 11.3 9.2 13.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#38

Carbon Tetrachloride

Concen: 9.263 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

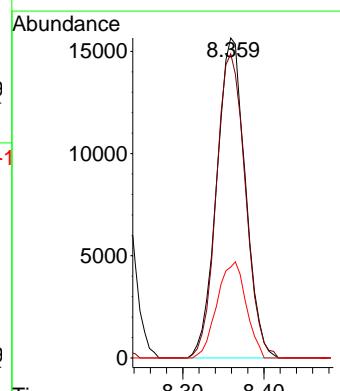
Tgt Ion:117 Resp: 38345

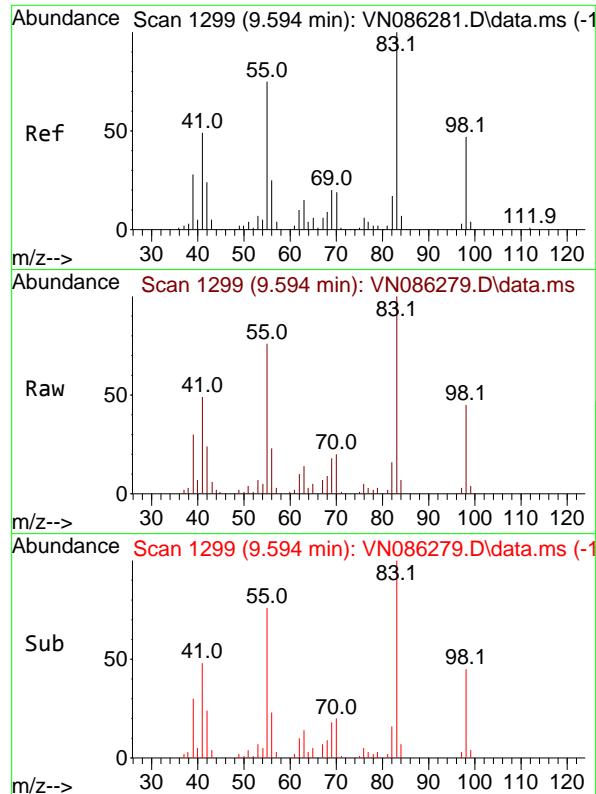
Ion Ratio Lower Upper

117 100

119 95.1 76.8 115.2

121 28.4 23.8 35.8





#39

Methylcyclohexane

Concen: 9.305 ug/l

RT: 9.594 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

Instrument:

MSVOA_N

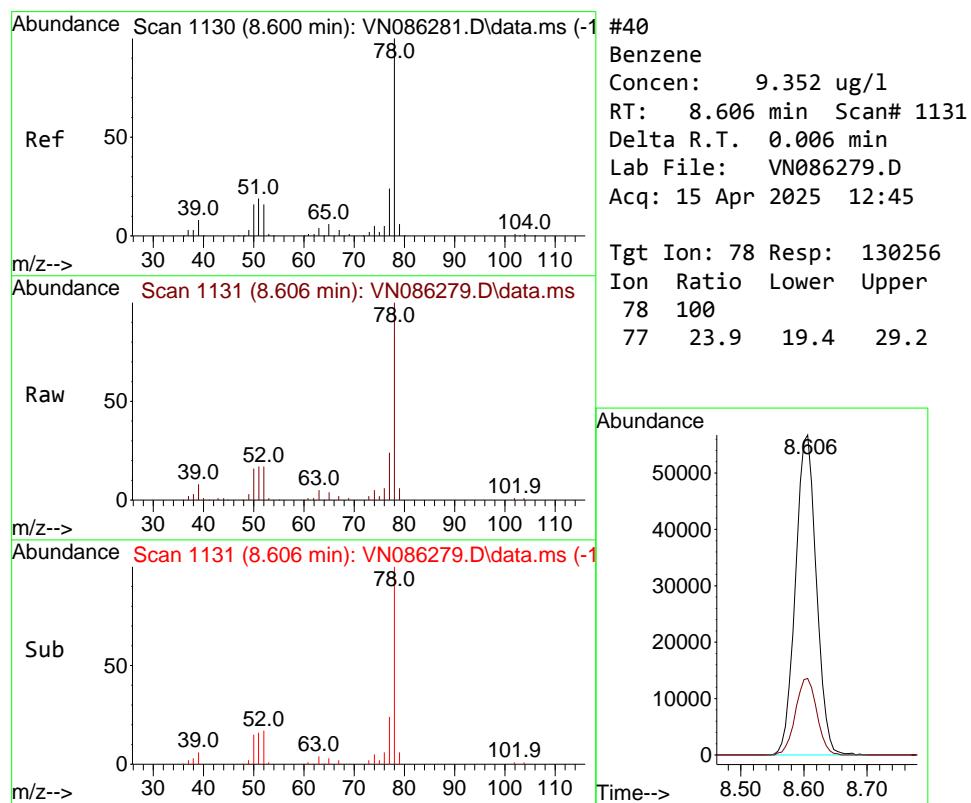
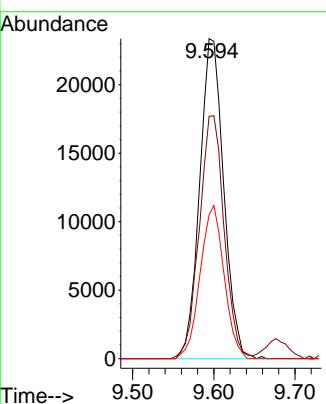
ClientSampleId :

VSTDICC010

| Tgt Ion: | 83 | Ion Ratio | 100 | Resp: | 48070 |
|----------|----|-----------|------|-------|-------|
| | 55 | 75.8 | 59.8 | Lower | 89.8 |
| | 98 | 45.0 | 37.9 | Upper | 56.9 |

Manual Integrations APPROVED

Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#40

Benzene

Concen: 9.352 ug/l

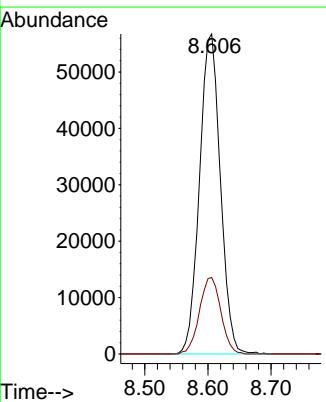
RT: 8.606 min Scan# 1131

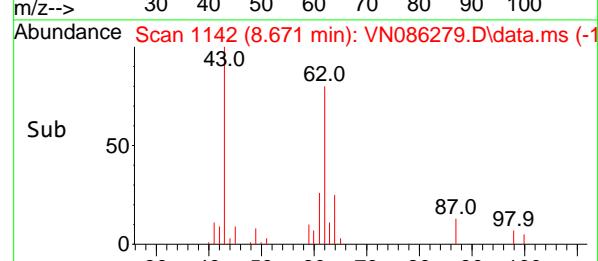
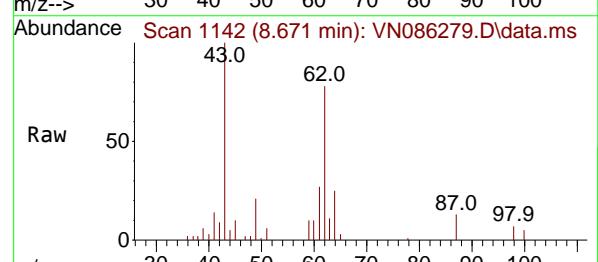
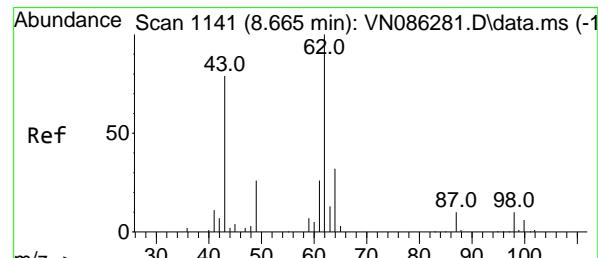
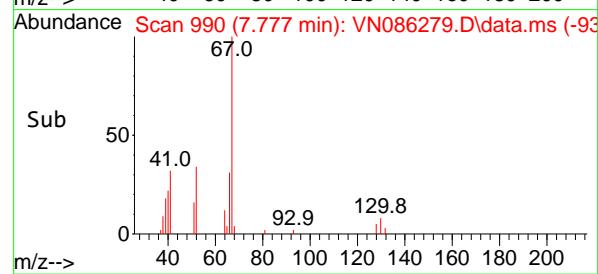
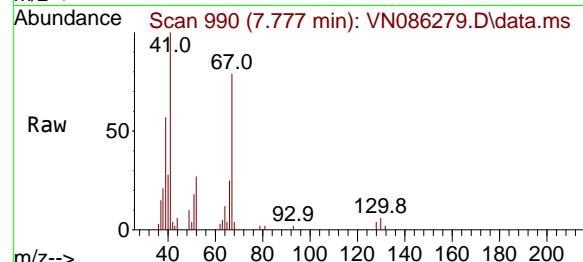
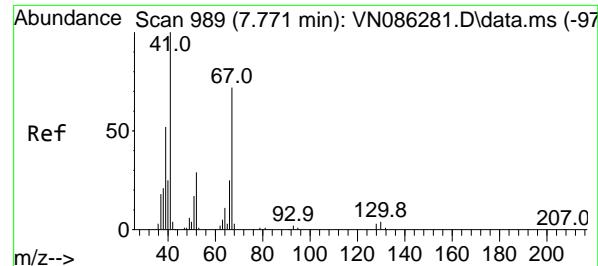
Delta R.T. 0.006 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

| Tgt Ion: | 78 | Ion Ratio | 100 | Resp: | 130256 |
|----------|----|-----------|------|-------|--------|
| | 77 | 23.9 | 19.4 | Lower | 29.2 |





#41

Methacrylonitrile

Concen: 9.824 ug/l

RT: 7.777 min Scan# 990

Delta R.T. 0.006 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

Instrument :

MSVOA_N

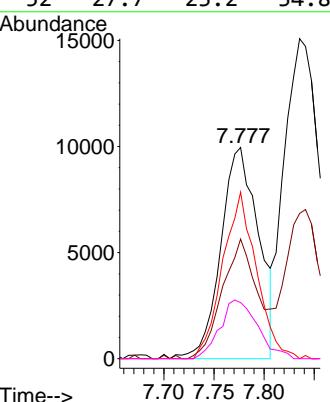
ClientSampleId :

VSTDICC010

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025

 Tgt Ion: 41 Resp: 26053
 Ion Ratio Lower Upper

 41 100
 39 53.2 43.0 64.4
 67 70.7 58.8 88.2
 52 27.7 23.2 34.8


#42

1,2-Dichloroethane

Concen: 9.452 ug/l

RT: 8.671 min Scan# 1142

Delta R.T. 0.006 min

Lab File: VN086279.D

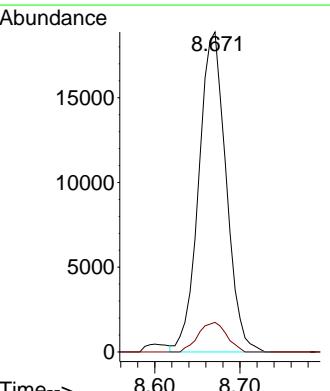
Acq: 15 Apr 2025 12:45

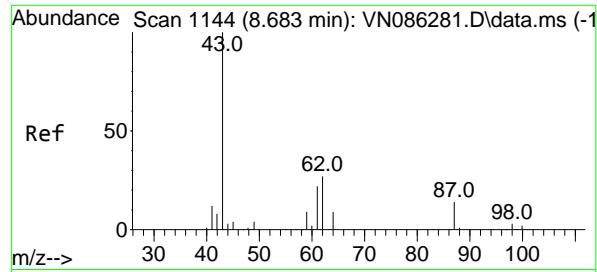
Tgt Ion: 62 Resp: 41980

Ion Ratio Lower Upper

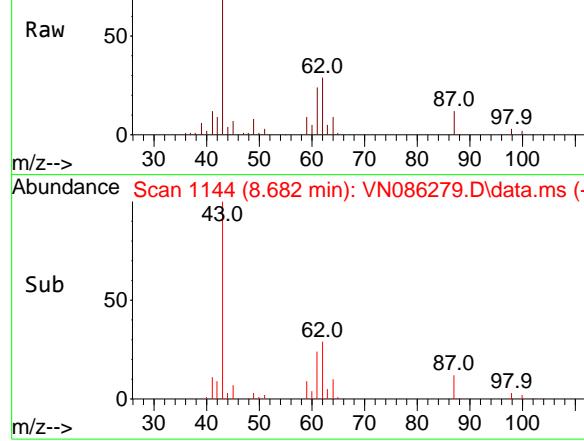
62 100

98 9.6 0.0 19.2

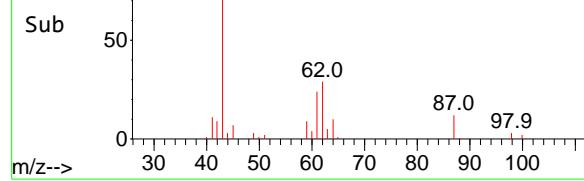




Abundance Scan 1144 (8.682 min): VN086279.D\data.ms



Abundance Scan 1144 (8.682 min): VN086279.D\data.ms (-1)



#43

Isopropyl Acetate

Concen: 9.381 ug/l

RT: 8.682 min Scan# 1

Delta R.T. -0.001 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

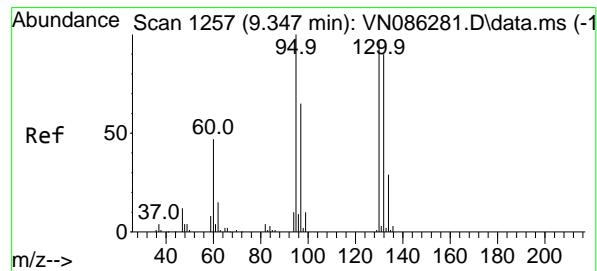
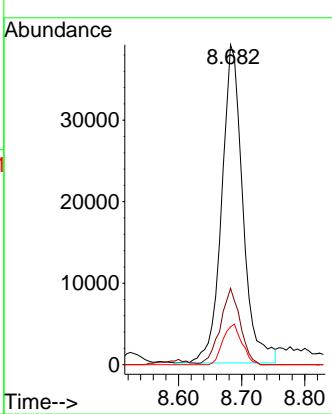
Instrument:

MSVOA_N

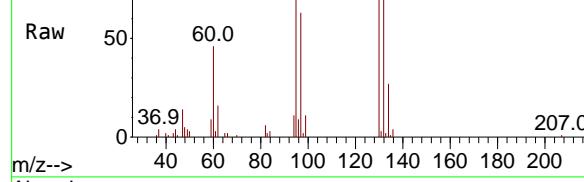
ClientSampleId :

VSTDICC010

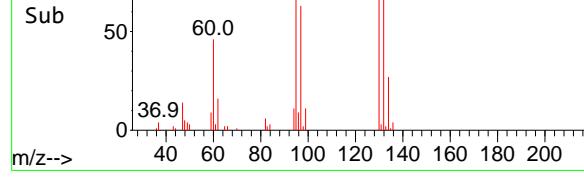
**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


Abundance Scan 1257 (9.347 min): VN086279.D\data.ms



Abundance Scan 1257 (9.347 min): VN086279.D\data.ms (-1)



#44

Trichloroethene

Concen: 9.476 ug/l

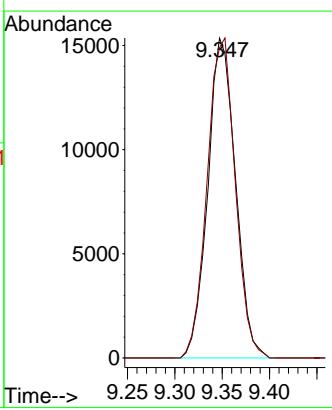
RT: 9.347 min Scan# 1257

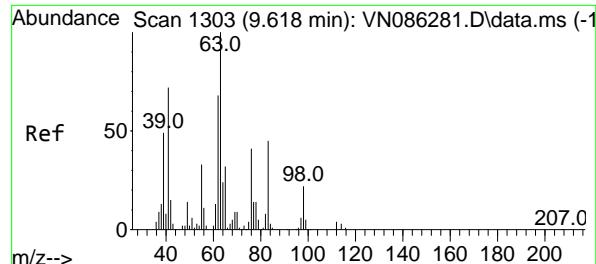
Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

 Tgt Ion:130 Resp: 31281
 Ion Ratio Lower Upper

 130 100
 95 97.0 0.0 207.2




#45

1,2-Dichloropropane

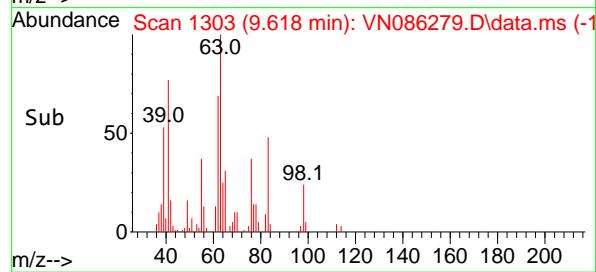
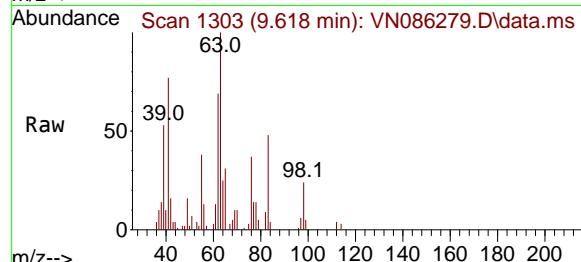
Concen: 9.759 ug/l

RT: 9.618 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45



Tgt Ion: 63 Resp: 33270

Ion Ratio Lower Upper

63 100

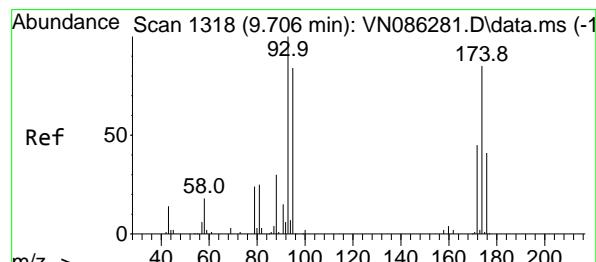
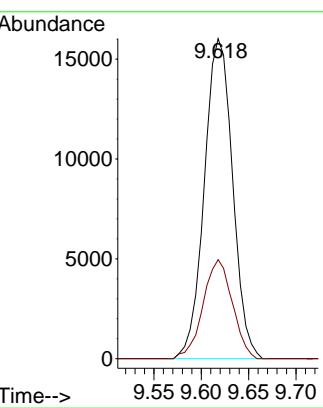
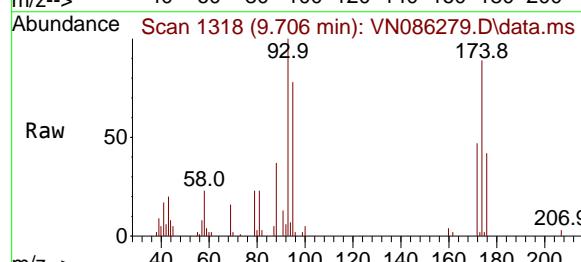
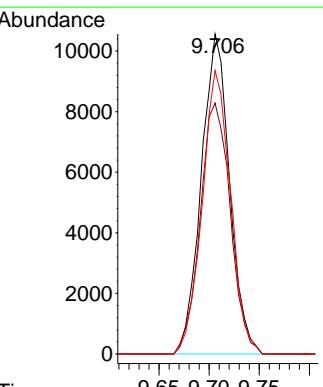
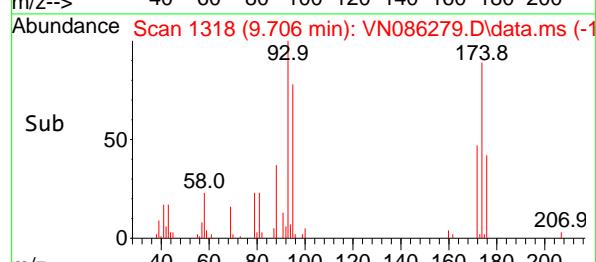
65 30.9 25.4 38.2

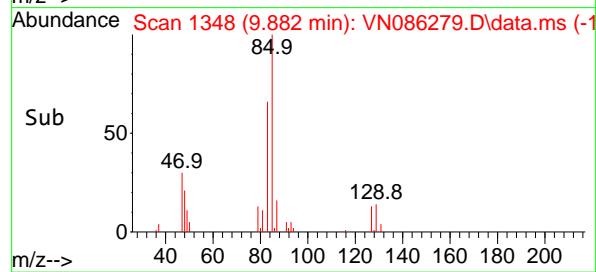
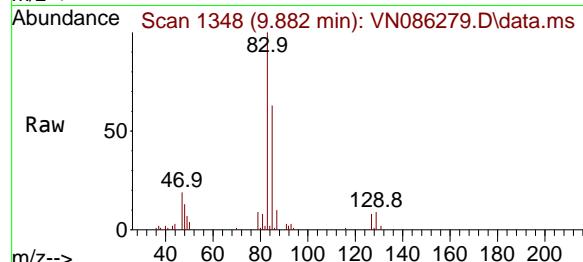
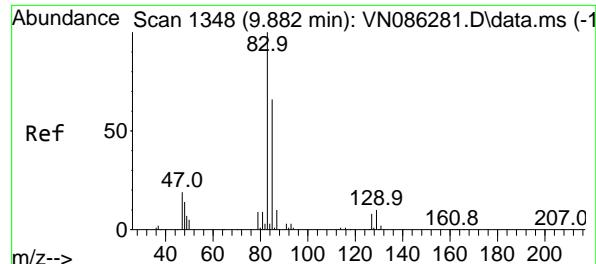
Instrument:

MSVOA_N

ClientSampleId :

VSTDICC010

**Manual Integrations
APPROVED**
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025#46
Dibromomethane
Concen: 9.519 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. -0.000 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45Tgt Ion: 93 Resp: 20677
Ion Ratio Lower Upper
93 100
95 83.9 66.2 99.4
174 89.0 67.8 101.6



#47

Bromodichloromethane

Concen: 9.543 ug/l

RT: 9.882 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

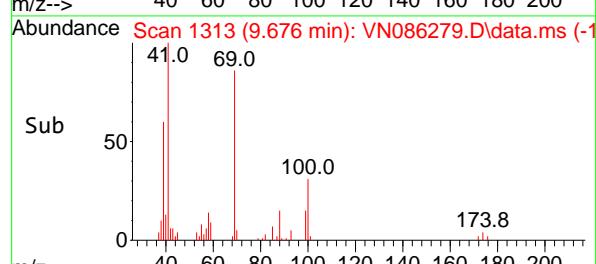
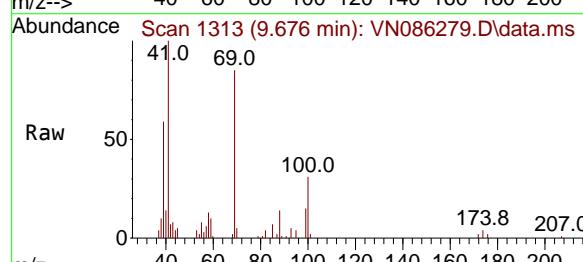
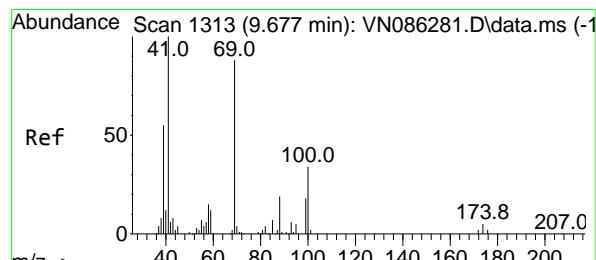
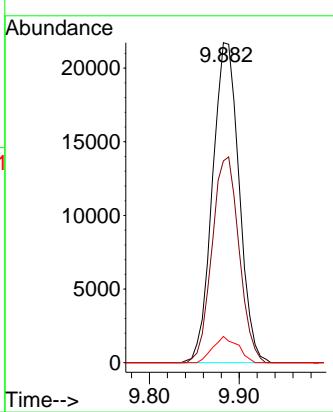
Instrument:

MSVOA_N

ClientSampleId :

VSTDICC010

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#48

Methyl methacrylate

Concen: 9.430 ug/l

RT: 9.676 min Scan# 1313

Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

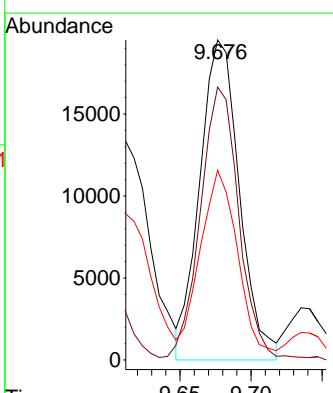
Tgt Ion: 41 Resp: 37900

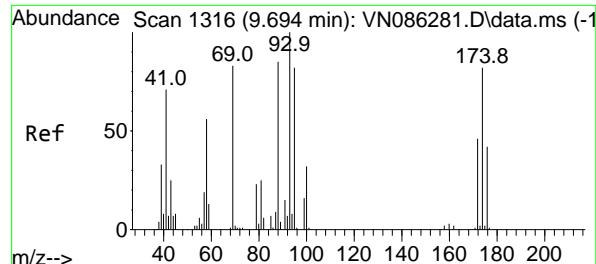
Ion Ratio Lower Upper

41 100

69 83.3 68.2 102.2

39 57.1 45.2 67.8





#49

1,4-Dioxane

Concen: 193.063 ug/l

RT: 9.688 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN086279.D

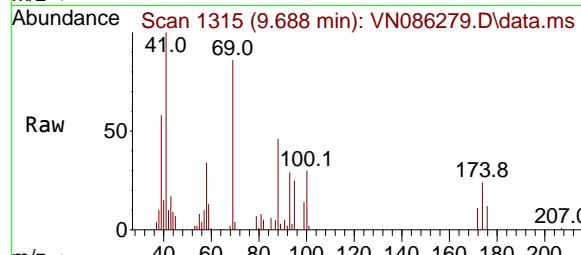
Acq: 15 Apr 2025 12:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010



Tgt Ion: 88 Resp: 1319

Ion Ratio Lower Upper

88 100

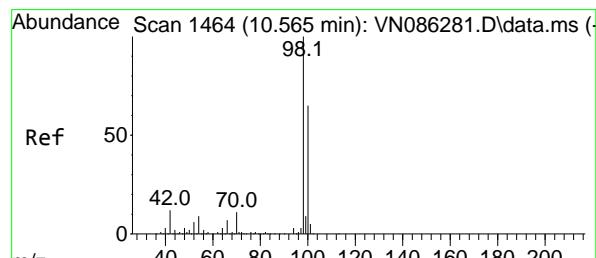
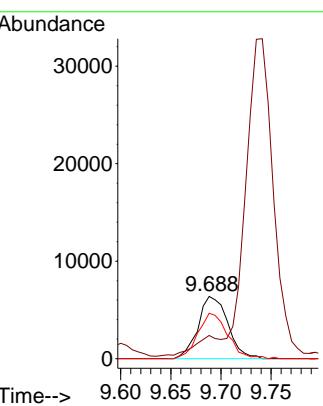
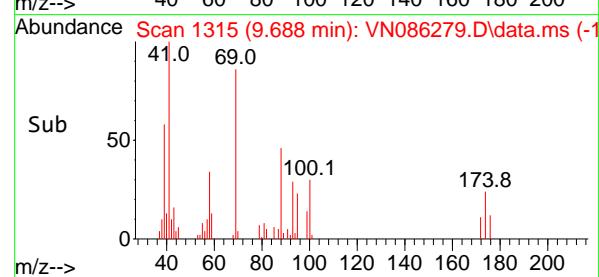
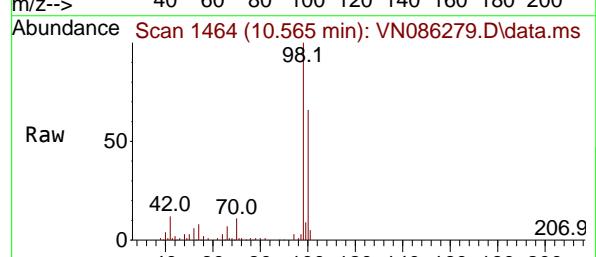
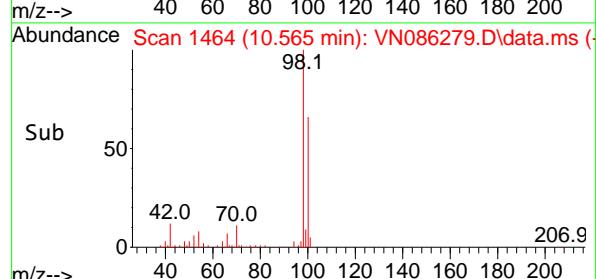
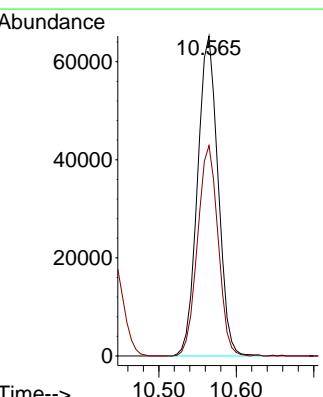
43 29.4 23.8 35.8

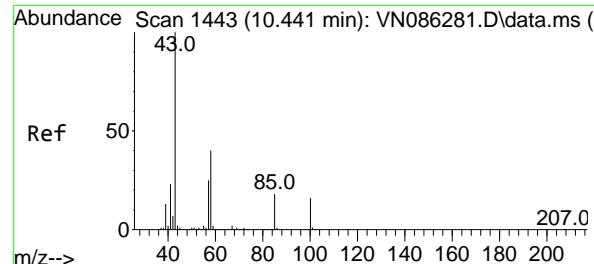
58 73.0 57.4 86.2

Manual Integrations**APPROVED**

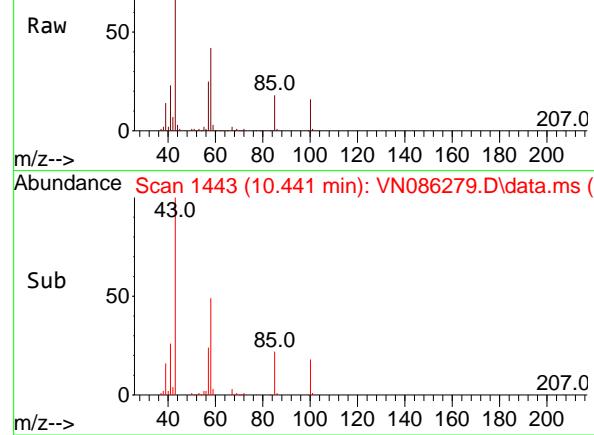
Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025

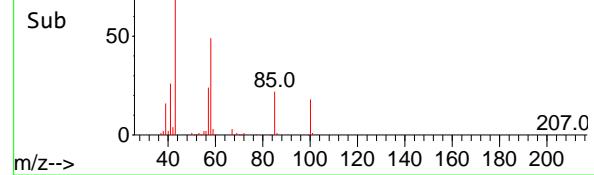
#50
Toluene-d8
Concen: 10.327 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45Tgt Ion: 98 Resp: 120121
Ion Ratio Lower Upper
98 100
100 65.7 52.5 78.7



Abundance Scan 1443 (10.441 min): VN086279.D\data.ms



Abundance Scan 1443 (10.441 min): VN086279.D\data.ms (-)



#51

4-Methyl-2-Pentanone

Concen: 47.916 ug/l

RT: 10.441 min Scan# 1443

Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

Instrument:

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 43 Resp: 224543

Ion Ratio Lower Upper

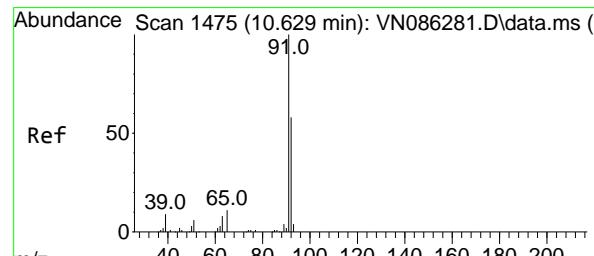
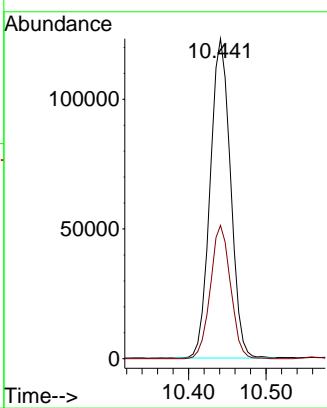
43 100

58 41.3 32.2 48.4

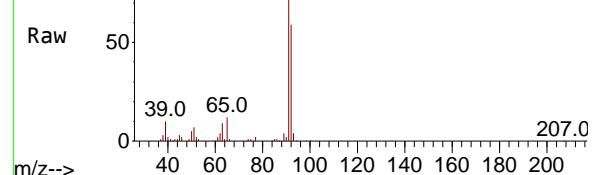
Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/16/2025

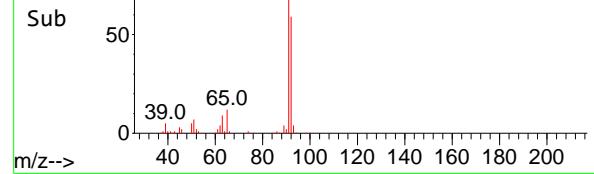
Supervised By :Semsettin Yesilyurt 04/16/2025



Abundance Scan 1474 (10.623 min): VN086279.D\data.ms



Abundance Scan 1474 (10.623 min): VN086279.D\data.ms (-)



#52

Toluene

Concen: 9.330 ug/l

RT: 10.623 min Scan# 1474

Delta R.T. -0.006 min

Lab File: VN086279.D

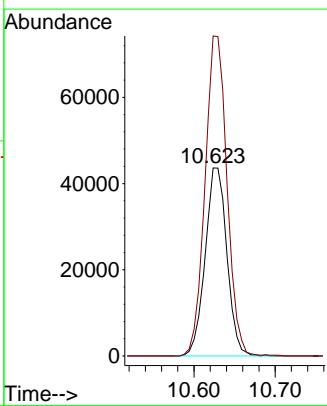
Acq: 15 Apr 2025 12:45

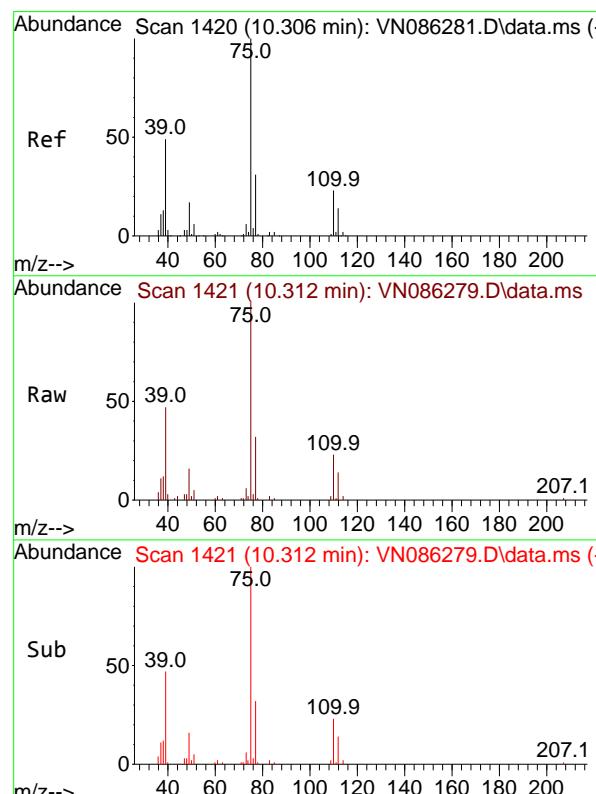
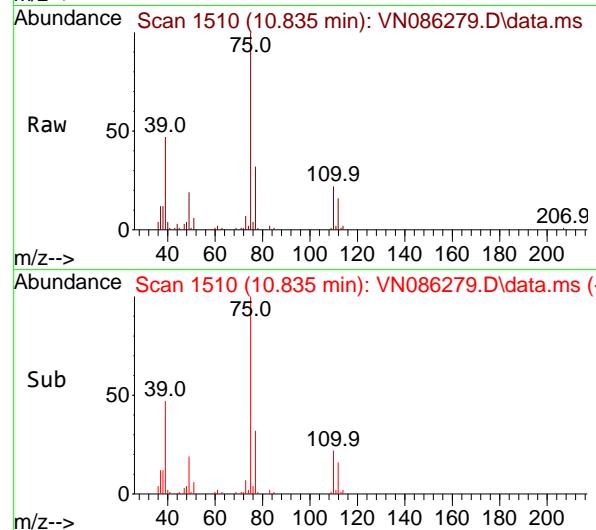
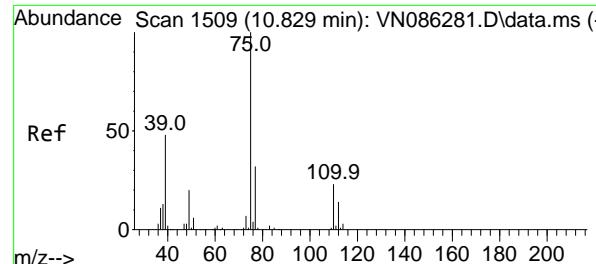
Tgt Ion: 92 Resp: 81084

Ion Ratio Lower Upper

92 100

91 172.3 137.3 205.9





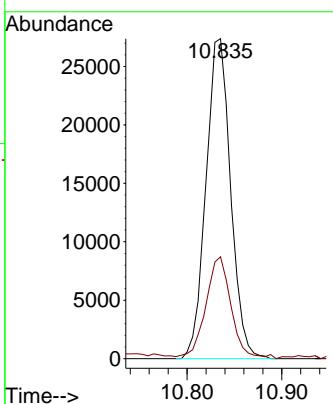
#53
t-1,3-Dichloropropene
Concen: 9.454 ug/l
RT: 10.835 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45

Instrument : MSVOA_N
ClientSampleId : VSTDICC010

Tgt Ion: 75 Resp: 49510
Ion Ratio Lower Upper
75 100
77 31.9 25.4 38.0

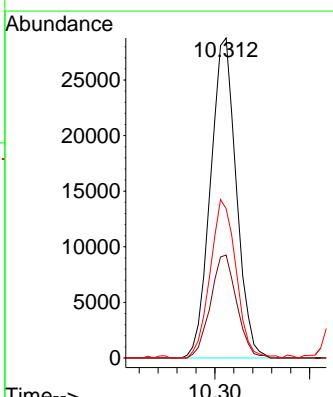
Manual Integrations
APPROVED

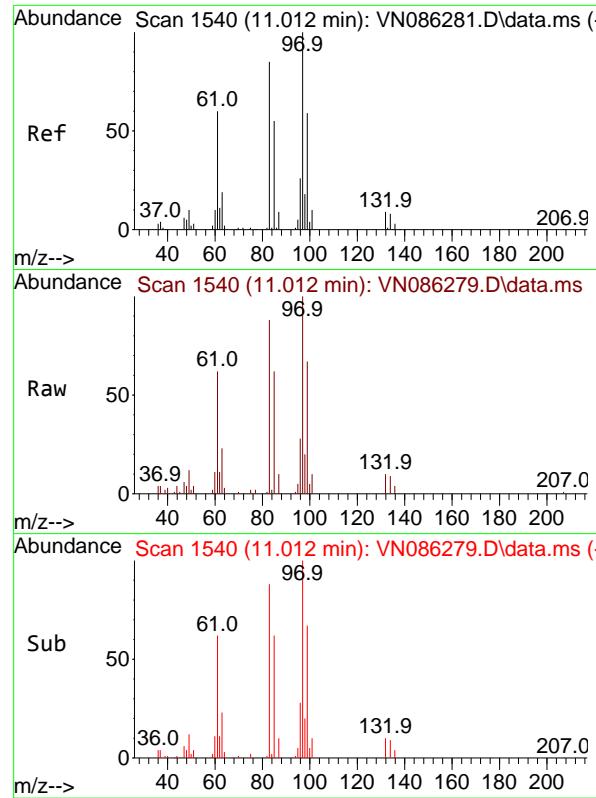
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#54
cis-1,3-Dichloropropene
Concen: 9.459 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.006 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45

Tgt Ion: 75 Resp: 54411
Ion Ratio Lower Upper
75 100
77 32.1 25.2 37.8
39 46.6 39.3 58.9



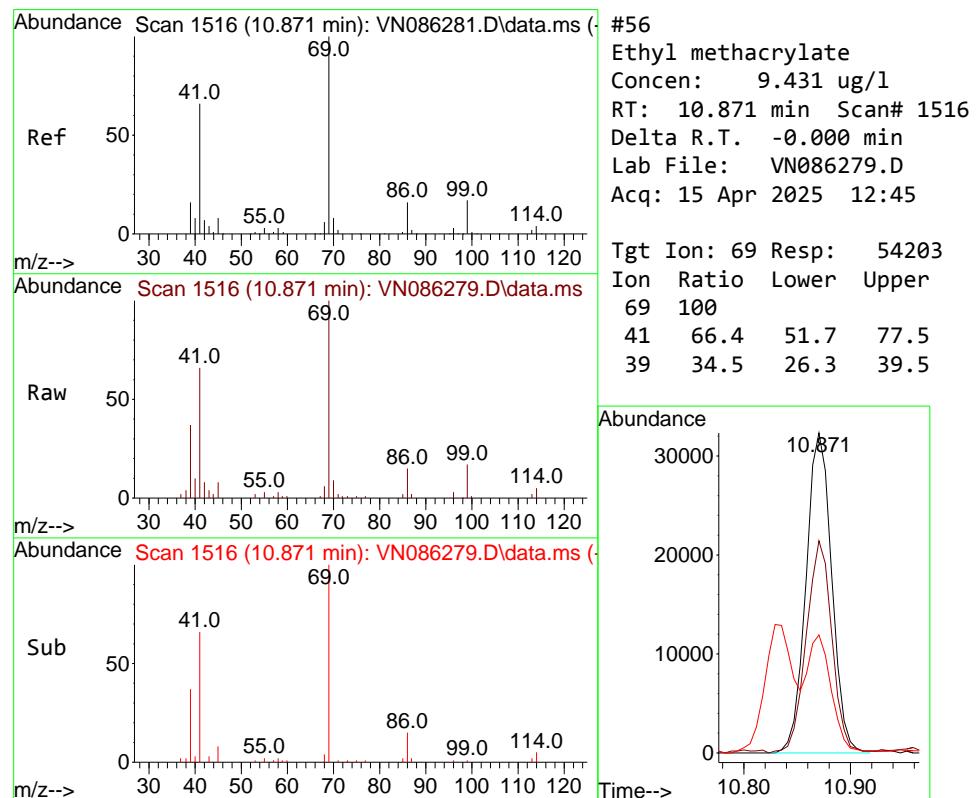
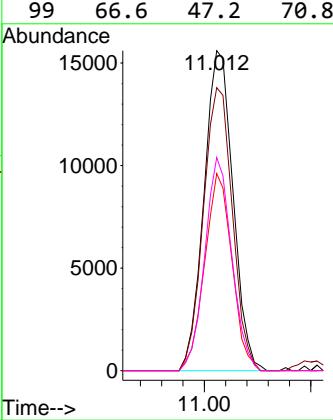


#55
1,1,2-Trichloroethane
Concen: 9.439 ug/l
RT: 11.012 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45

Instrument : MSVOA_N
ClientSampleId : VSTDICC010

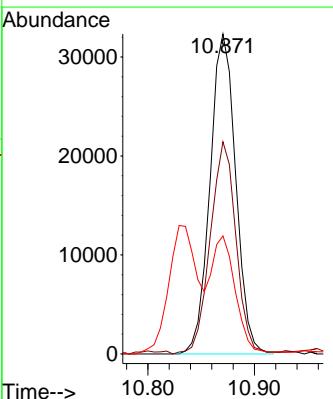
Manual Integrations
APPROVED

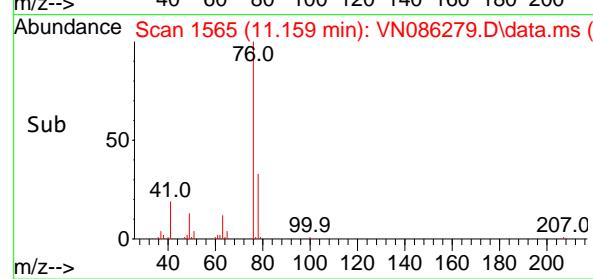
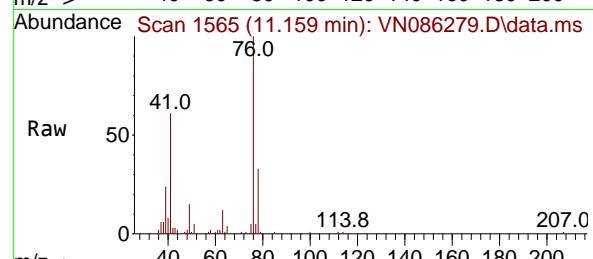
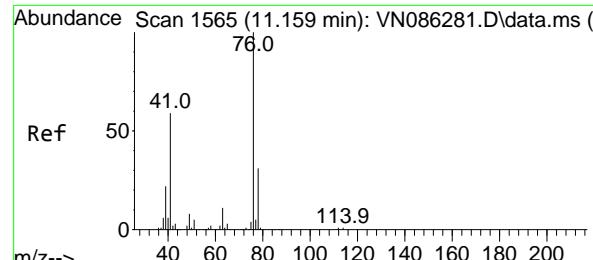
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#56
Ethyl methacrylate
Concen: 9.431 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45

Tgt Ion: 69 Resp: 54203
Ion Ratio Lower Upper
69 100
41 66.4 51.7 77.5
39 34.5 26.3 39.5





#57

1,3-Dichloropropane

Concen: 9.581 ug/l

RT: 11.159 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

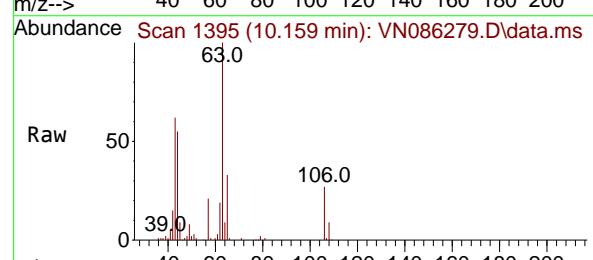
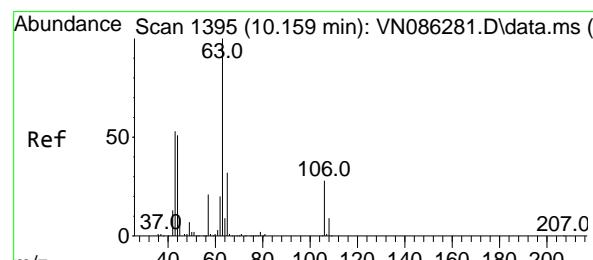
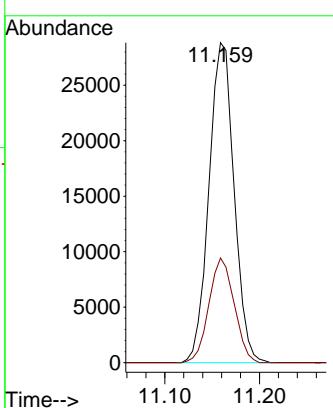
Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#58

2-Chloroethyl Vinyl ether

Concen: 41.526 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. -0.000 min

Lab File: VN086279.D

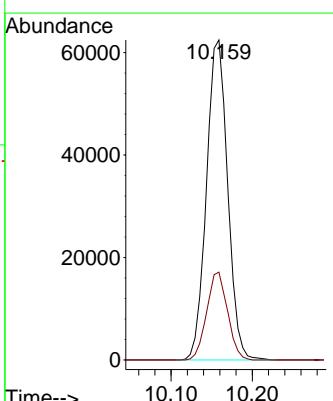
Acq: 15 Apr 2025 12:45

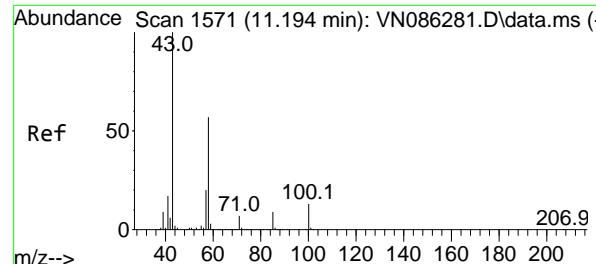
Tgt Ion: 63 Resp: 113279

Ion Ratio Lower Upper

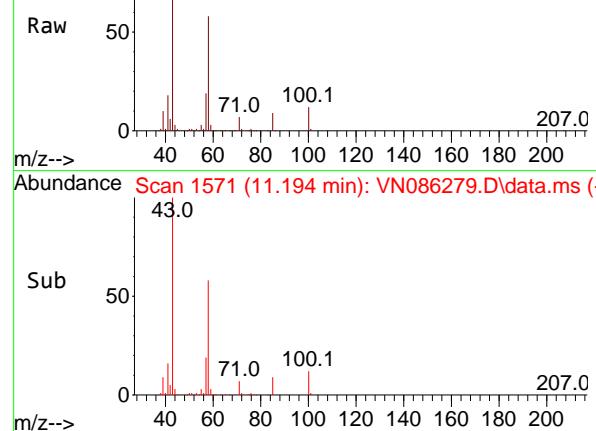
63 100

106 26.9 22.2 33.2

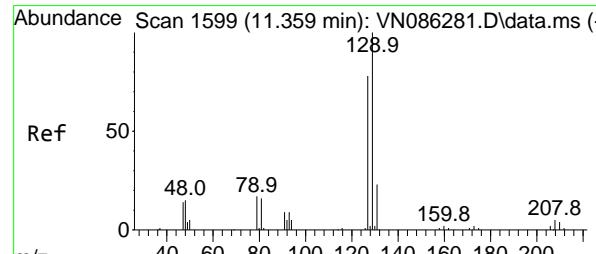
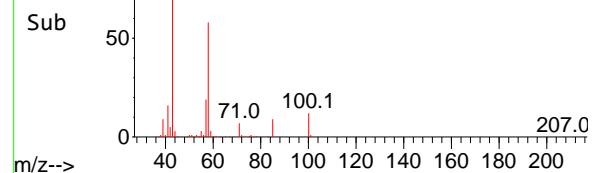




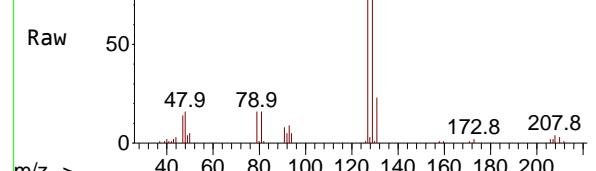
Abundance Scan 1571 (11.194 min): VN086279.D\data.ms



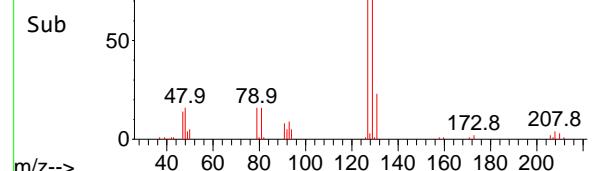
Abundance Scan 1571 (11.194 min): VN086279.D\data.ms (-)



Abundance Scan 1598 (11.353 min): VN086279.D\data.ms



Abundance Scan 1598 (11.353 min): VN086279.D\data.ms (-)



#59

2-Hexanone

Concen: 47.941 ug/l

RT: 11.194 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

Instrument:

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 43 Resp: 16664

Ion Ratio Lower Upper

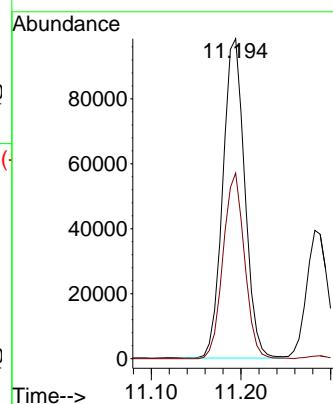
43 100

58 56.8 28.3 85.0

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#60

Dibromochloromethane

Concen: 9.668 ug/l

RT: 11.353 min Scan# 1598

Delta R.T. -0.006 min

Lab File: VN086279.D

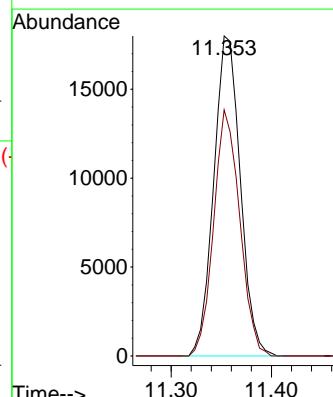
Acq: 15 Apr 2025 12:45

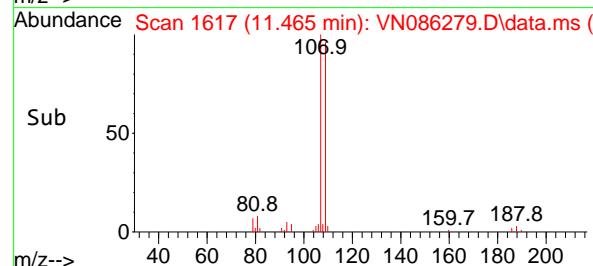
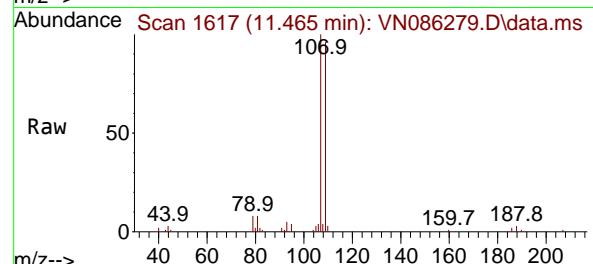
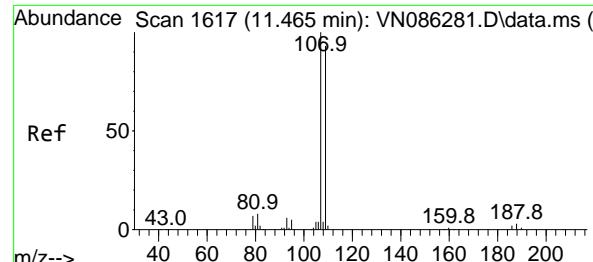
Tgt Ion:129 Resp: 33195

Ion Ratio Lower Upper

129 100

127 75.2 38.7 116.1





#61

1,2-Dibromoethane

Concen: 9.473 ug/l

RT: 11.465 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

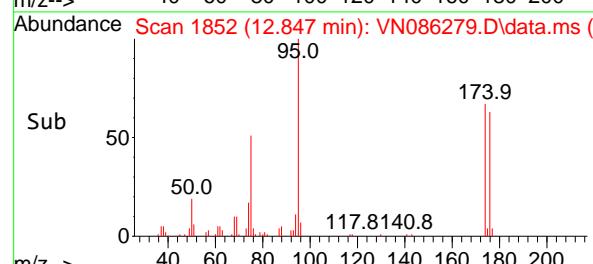
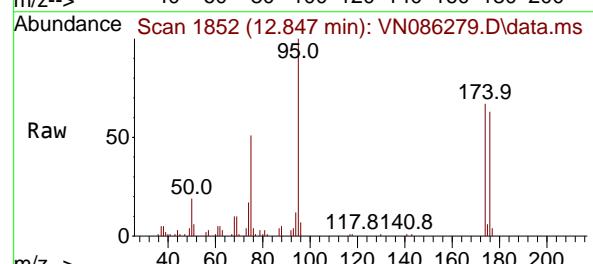
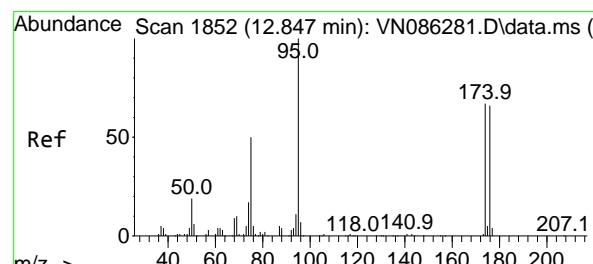
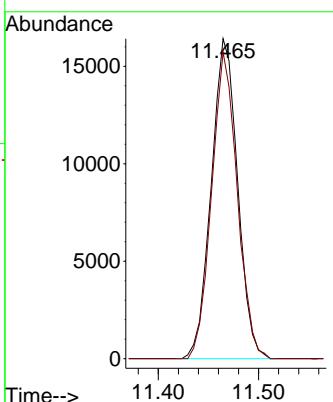
Instrument:

MSVOA_N

ClientSampleId :

VSTDICC010

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#62

4-Bromofluorobenzene

Concen: 10.086 ug/l

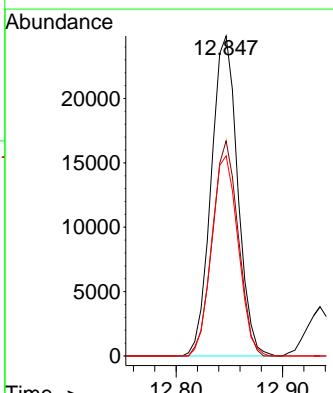
RT: 12.847 min Scan# 1852

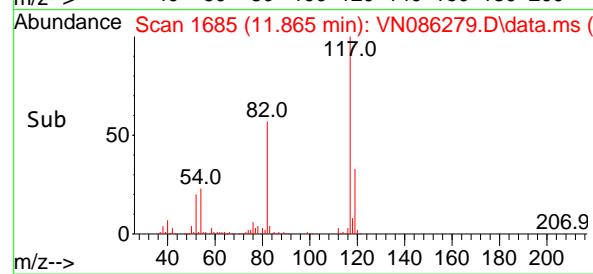
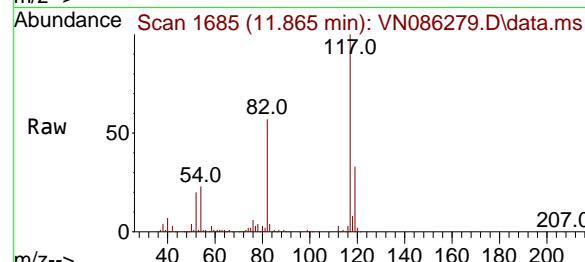
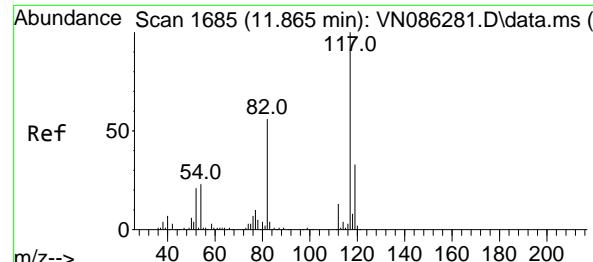
Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

| Tgt | Ion: | 95 | Resp: | 42791 |
|-----|-------|-------|-------|-------|
| Ion | Ratio | Lower | Upper | |
| 95 | 100 | | | |
| 174 | 65.7 | 0.0 | 133.4 | |
| 176 | 63.0 | 0.0 | 129.2 | |





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

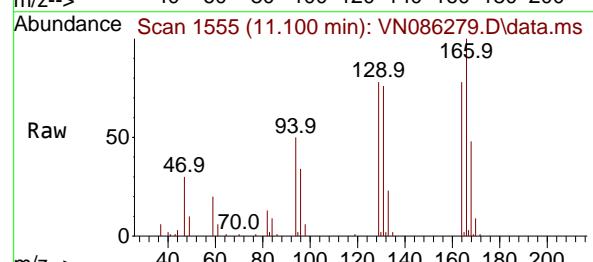
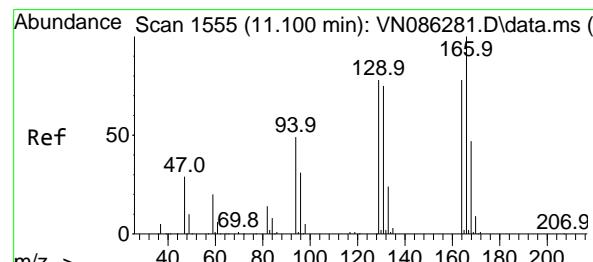
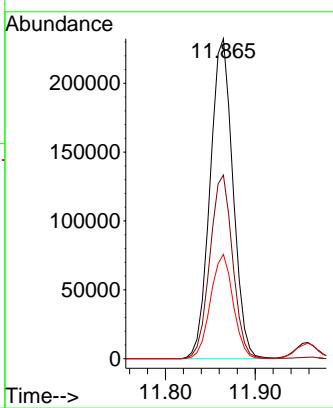
Instrument:

MSVOA_N

ClientSampleId :

VSTDICC010

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#64

Tetrachloroethene

Concen: 9.321 ug/l

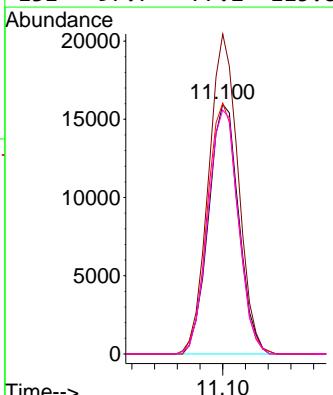
RT: 11.100 min Scan# 1555

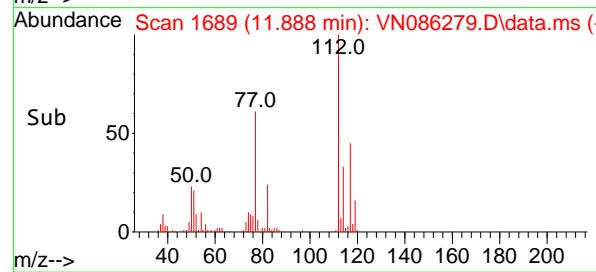
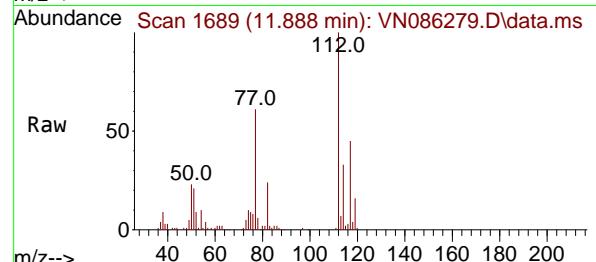
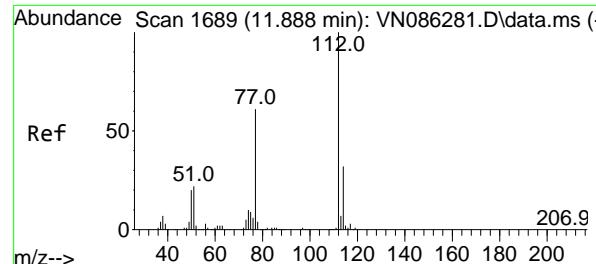
Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

| Tgt | Ion:164 | Resp: | 29467 |
|-----|---------|-------|-------|
| Ion | Ratio | Lower | Upper |
| 164 | 100 | | |
| 166 | 128.2 | 103.0 | 154.4 |
| 129 | 100.5 | 80.1 | 120.1 |
| 131 | 97.7 | 77.2 | 115.8 |



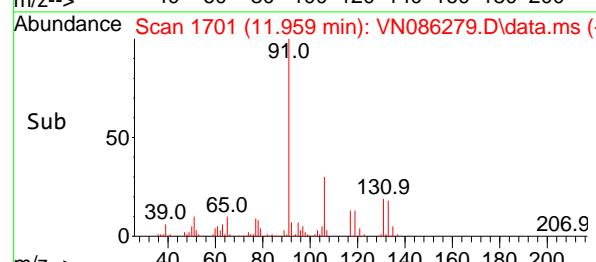
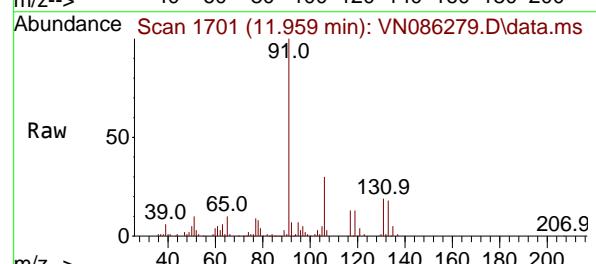
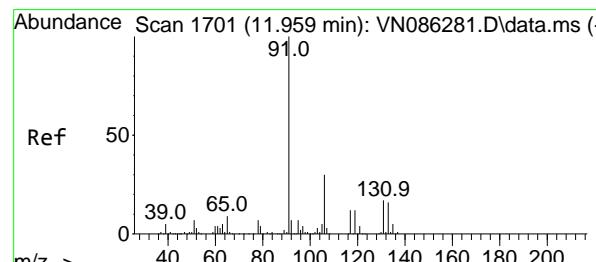
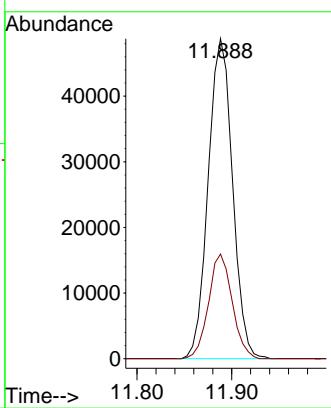


#65
Chlorobenzene
Concen: 9.485 ug/l
RT: 11.888 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

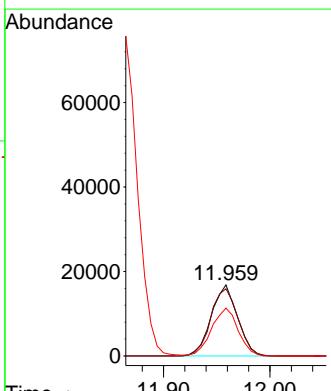
Manual Integrations APPROVED

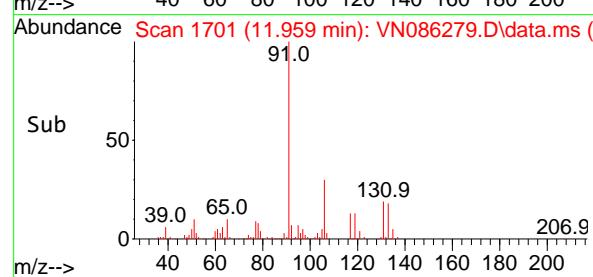
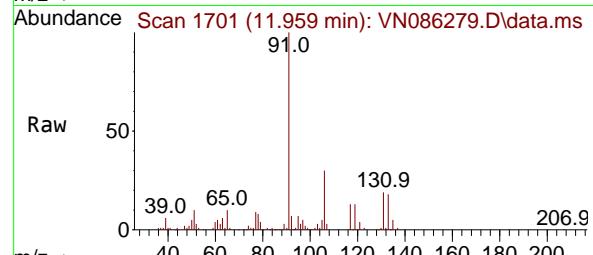
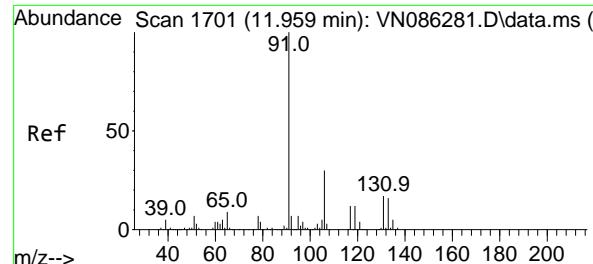
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 9.471 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45

Tgt Ion:131 Resp: 28657
Ion Ratio Lower Upper
131 100
133 99.0 47.1 141.3
119 68.3 33.8 101.4





#67

Ethyl Benzene

Concen: 9.300 ug/l

RT: 11.959 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

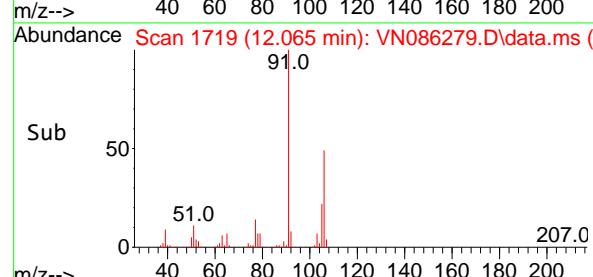
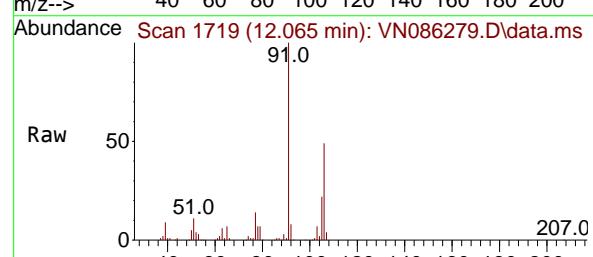
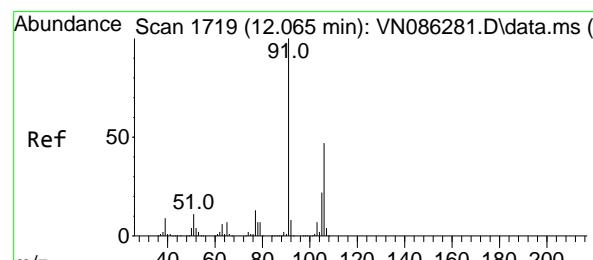
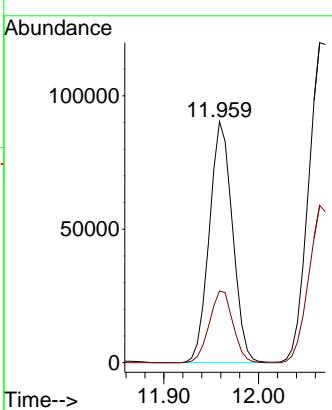
Instrument:

MSVOA_N

ClientSampleId :

VSTDICC010

**Manual Integrations
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 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#68

m/p-Xylenes

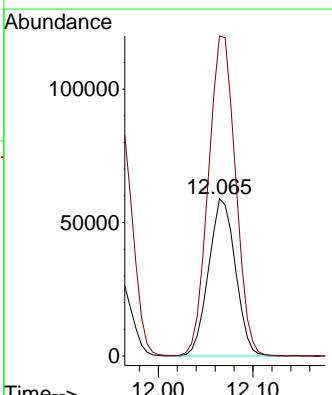
Concen: 18.692 ug/l

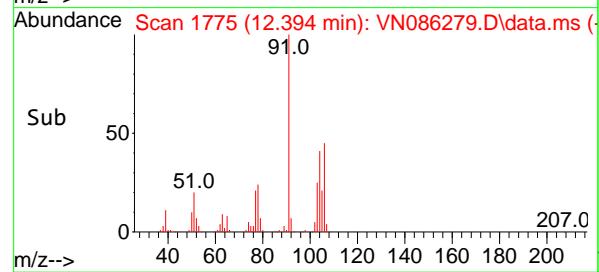
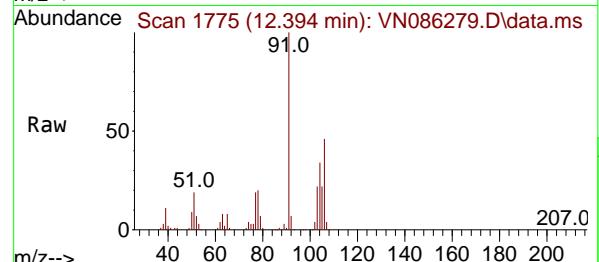
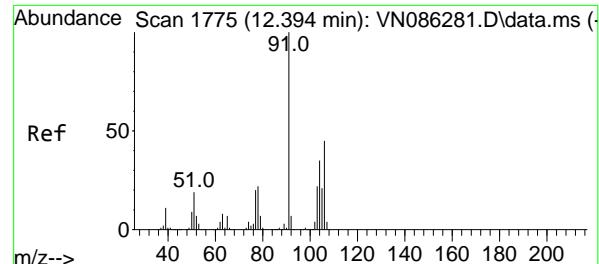
RT: 12.065 min Scan# 1719

Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

 Tgt Ion:106 Resp: 115926
 Ion Ratio Lower Upper
 106 100
 91 206.8 166.5 249.7


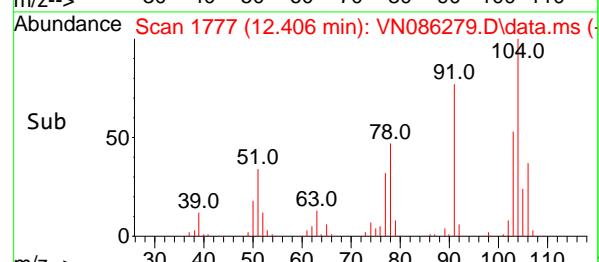
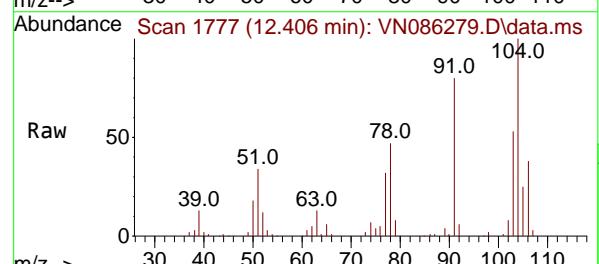
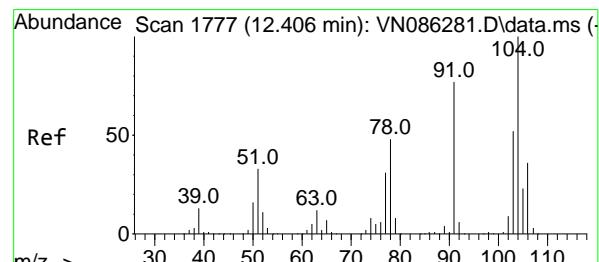
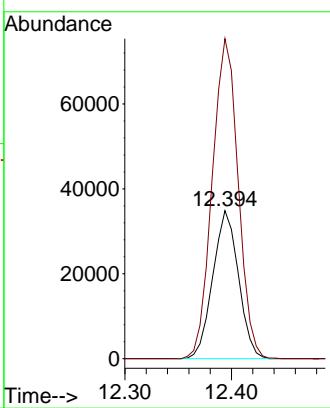


#69
o-Xylene
Concen: 9.508 ug/l
RT: 12.394 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

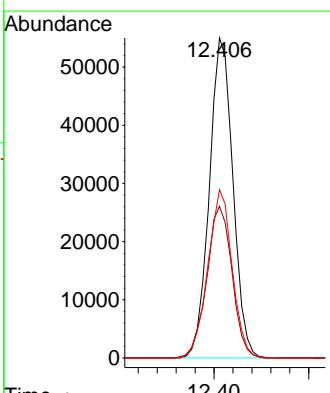
Manual Integrations APPROVED

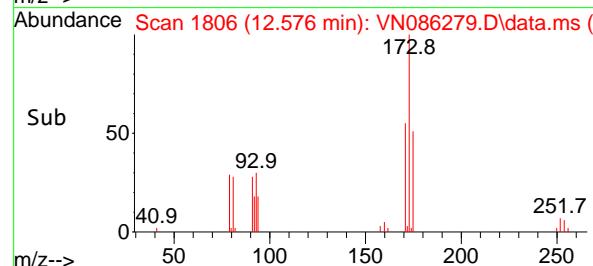
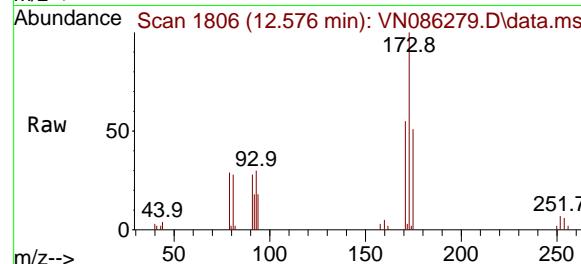
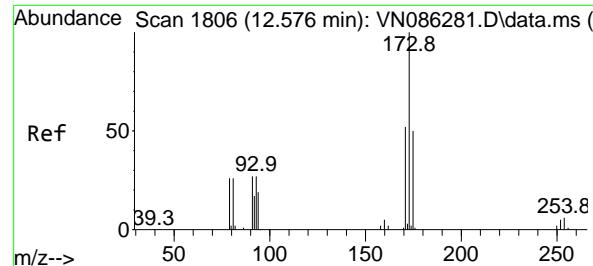
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#70
Styrene
Concen: 9.301 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45

Tgt Ion:104 Resp: 95045
Ion Ratio Lower Upper
104 100
78 50.8 40.6 61.0
103 54.2 43.6 65.4



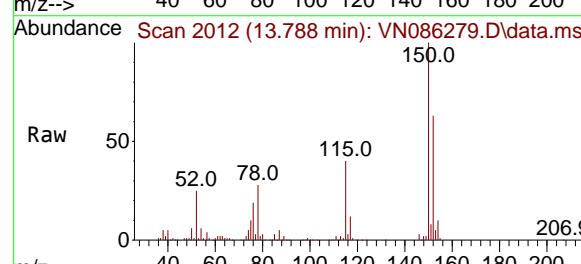
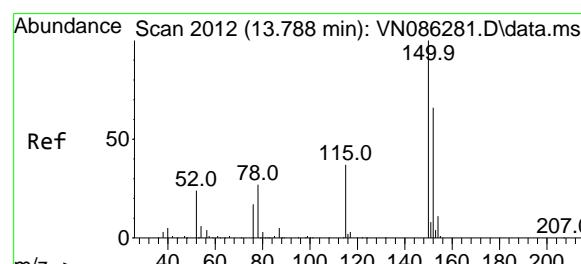
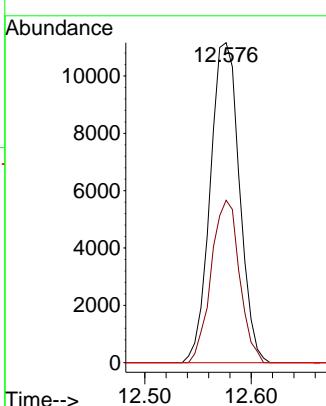


#71
Bromoform
Concen: 9.323 ug/l
RT: 12.576 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

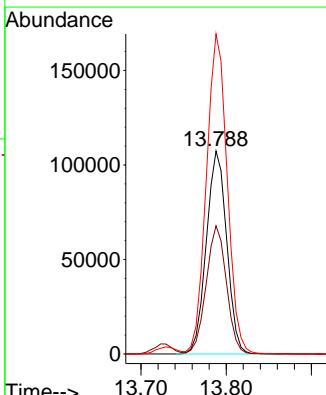
Manual Integrations APPROVED

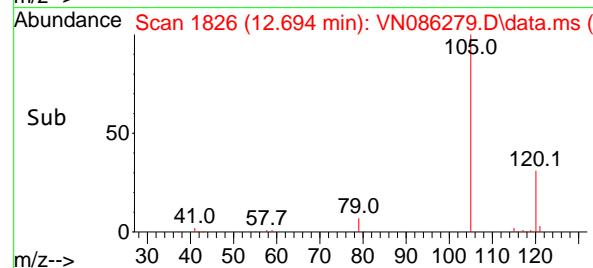
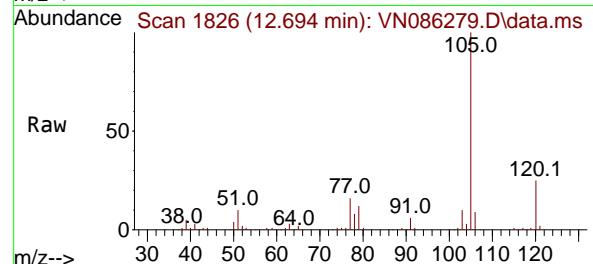
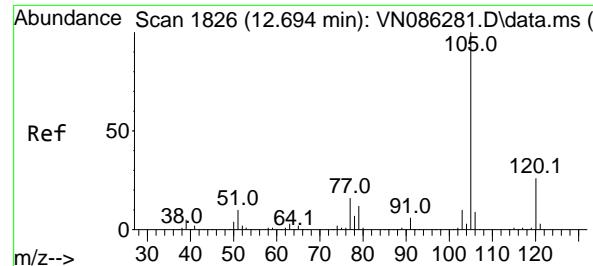
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45

Tgt Ion:152 Resp: 178484
Ion Ratio Lower Upper
152 100
115 62.7 31.9 95.9
150 160.9 0.0 352.0





#73

Isopropylbenzene

Concen: 9.757 ug/l

RT: 12.694 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

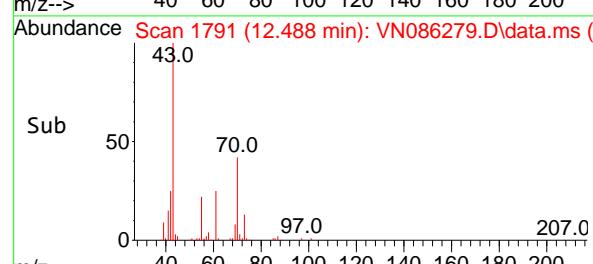
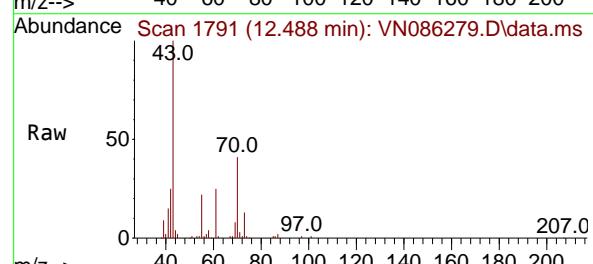
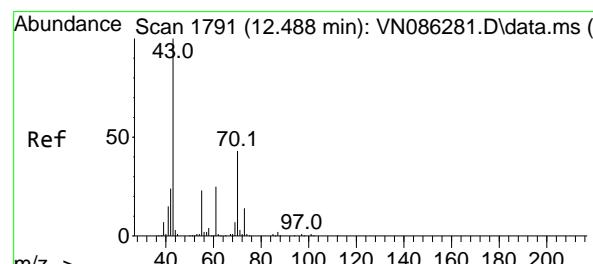
Instrument:

MSVOA_N

ClientSampleId :

VSTDICC010

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#74

N-amyl acetate

Concen: 9.228 ug/l

RT: 12.488 min Scan# 1791

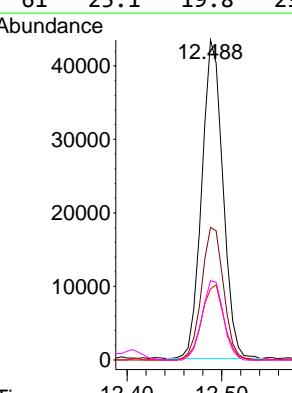
Delta R.T. -0.000 min

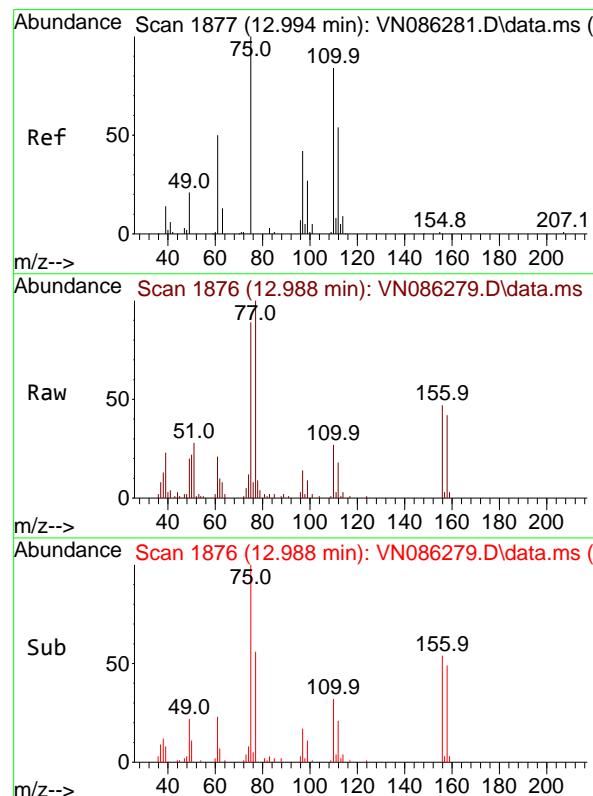
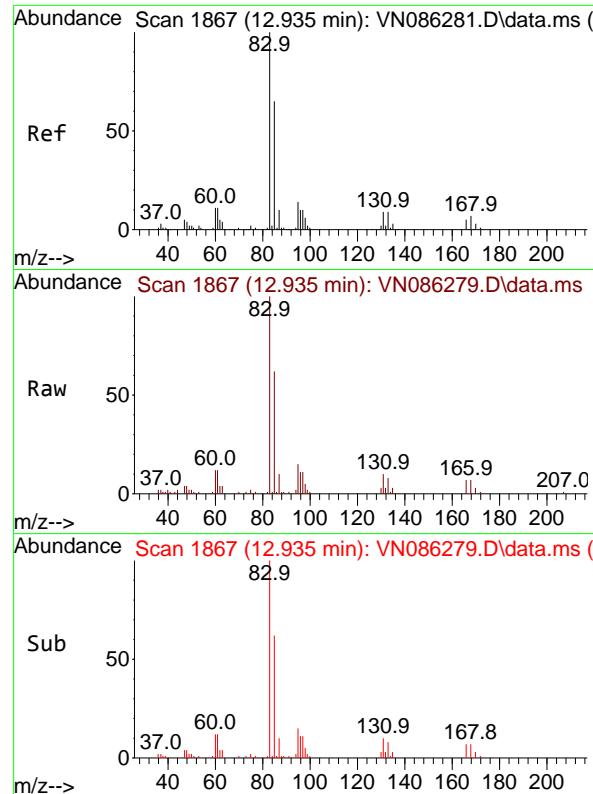
Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

Tgt Ion: 43 Resp: 67074

Ion Ratio Lower Upper



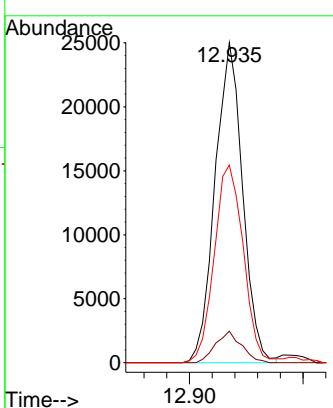


#75
1,1,2,2-Tetrachloroethane
Concen: 10.045 ug/l
RT: 12.935 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45

Instrument : MSVOA_N
ClientSampleId : VSTDICC010

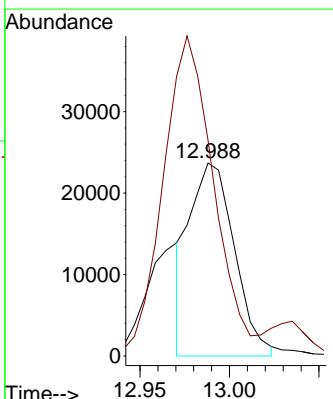
Manual Integrations APPROVED

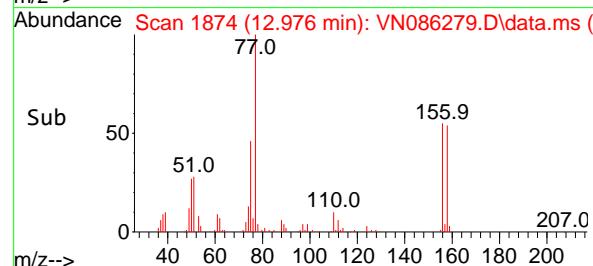
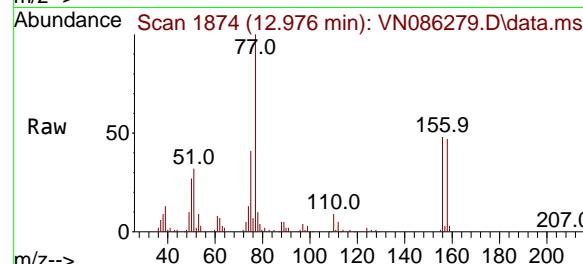
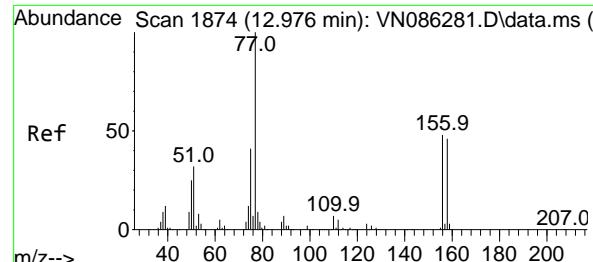
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#76
1,2,3-Trichloropropane
Concen: 9.813 ug/l
RT: 12.988 min Scan# 1876
Delta R.T. -0.006 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45

Tgt Ion: 75 Resp: 41148
Ion Ratio Lower Upper
75 100
77 189.0 98.8 296.4





#77

Bromobenzene

Concen: 9.986 ug/l

RT: 12.976 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

Instrument:

MSVOA_N

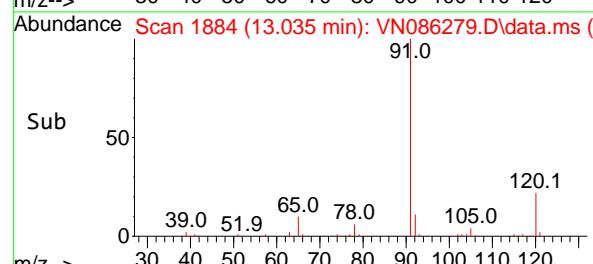
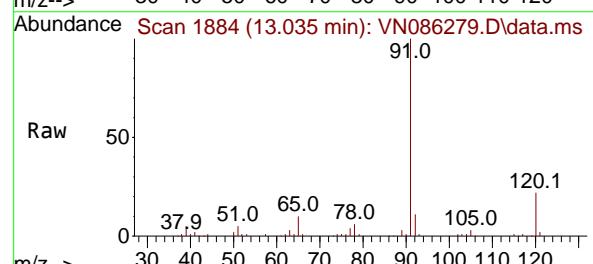
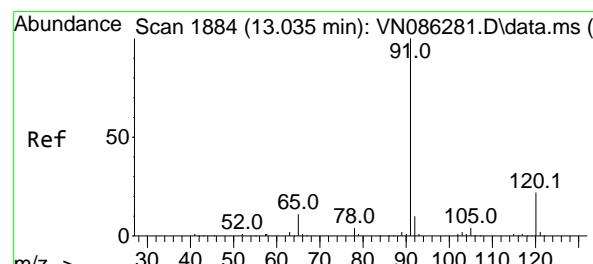
ClientSampleId :

VSTDICC010

**Manual Integrations
APPROVED**

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#78

n-propylbenzene

Concen: 9.605 ug/l

RT: 13.035 min Scan# 1884

Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

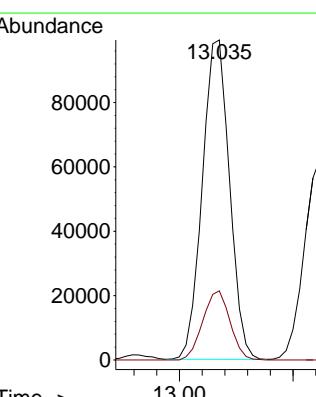
Tgt Ion: 91 Resp: 165250

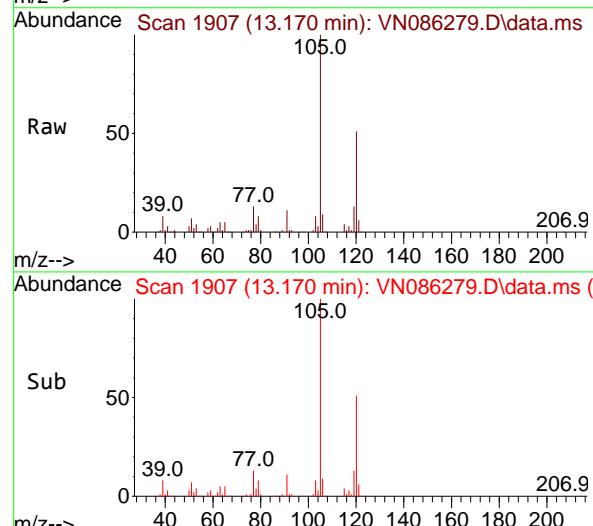
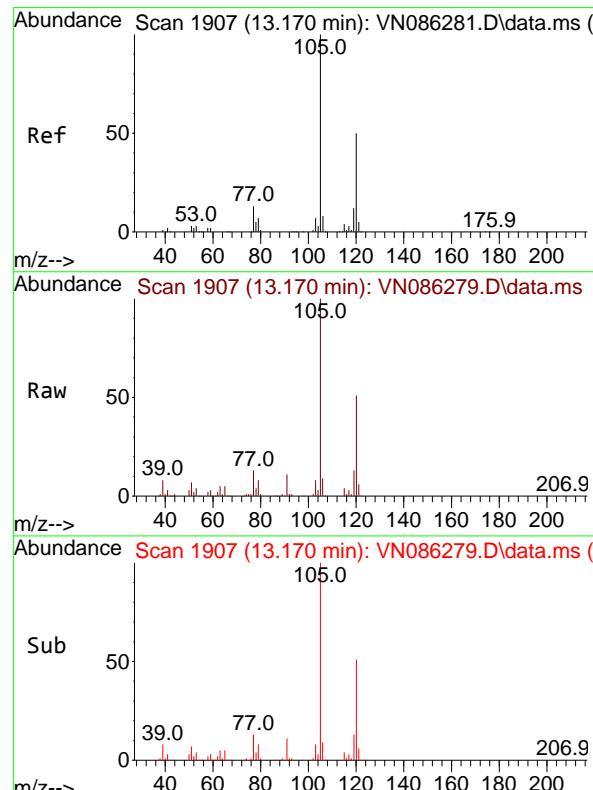
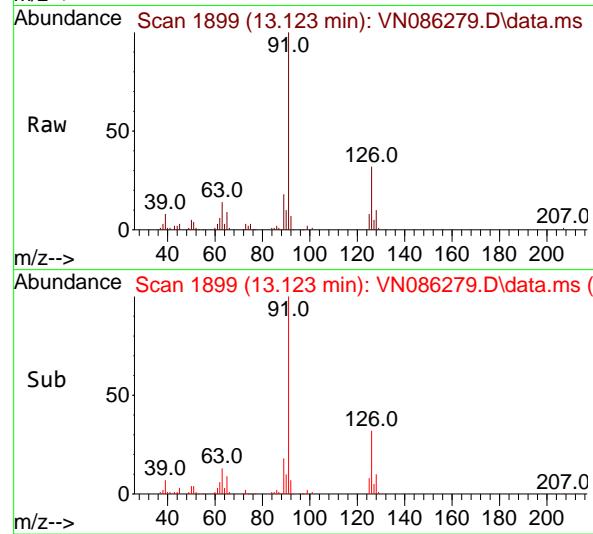
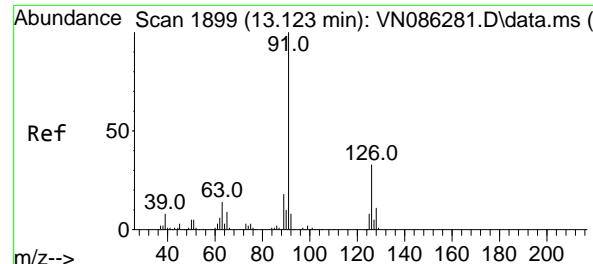
Ion Ratio Lower Upper

91 100

120 21.6 11.1 33.3

Time--> 12.90 13.00





#79

2-Chlorotoluene

Concen: 9.641 ug/l

RT: 13.123 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

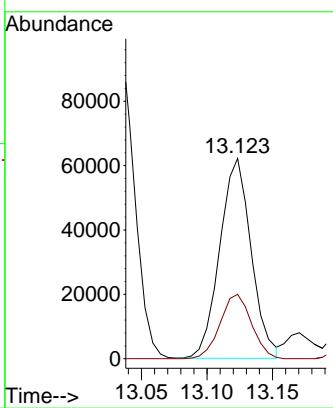
Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#80

1,3,5-Trimethylbenzene

Concen: 9.494 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VN086279.D

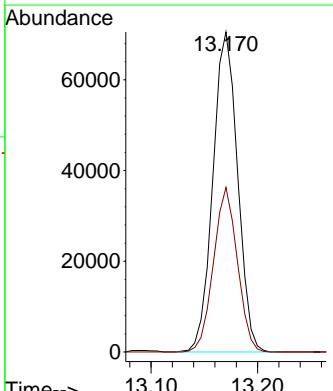
Acq: 15 Apr 2025 12:45

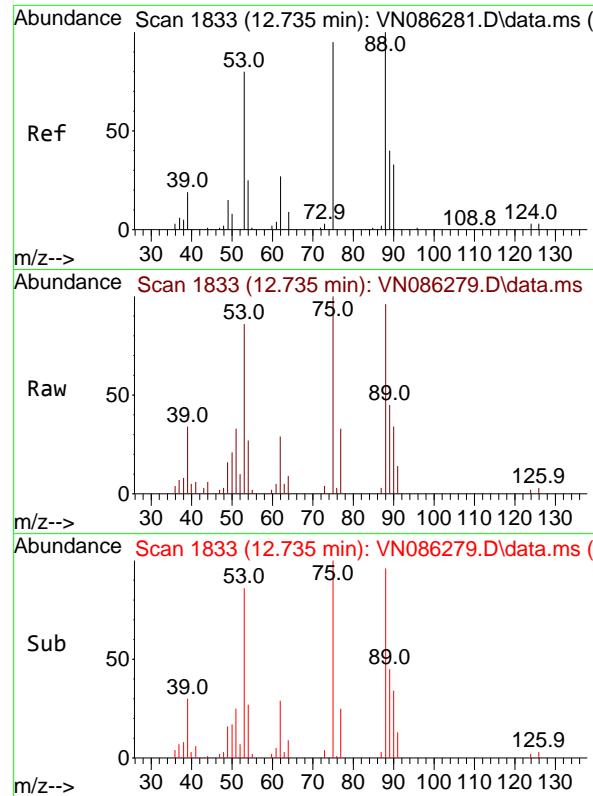
Tgt Ion:105 Resp: 113458

Ion Ratio Lower Upper

105 100

120 49.6 24.5 73.5



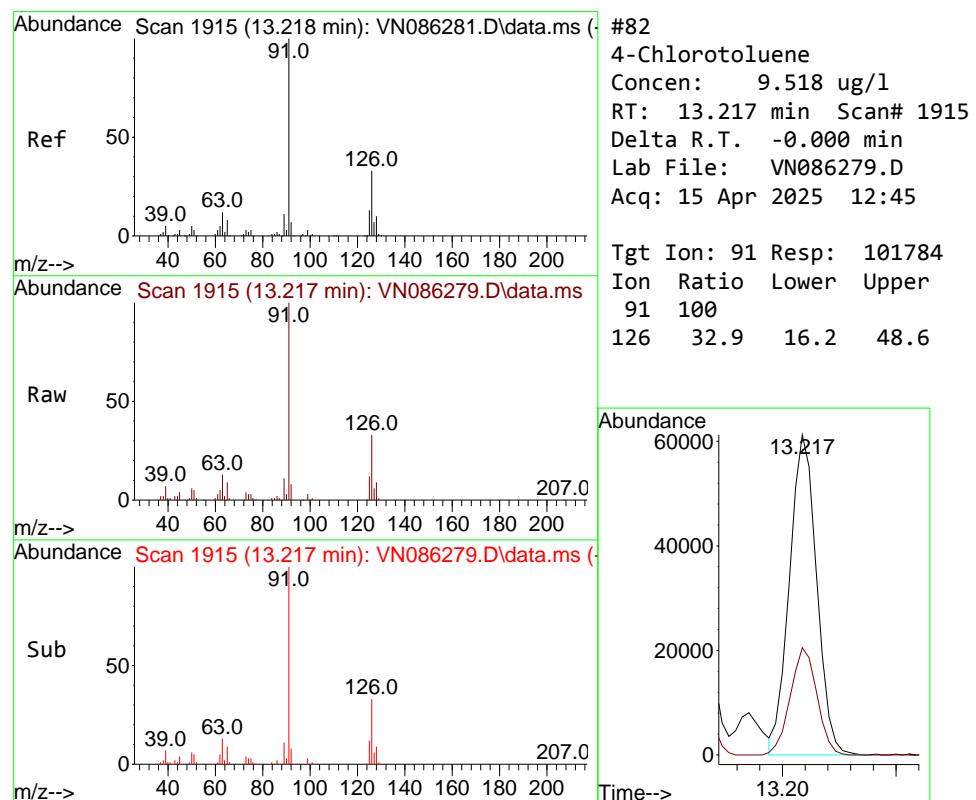
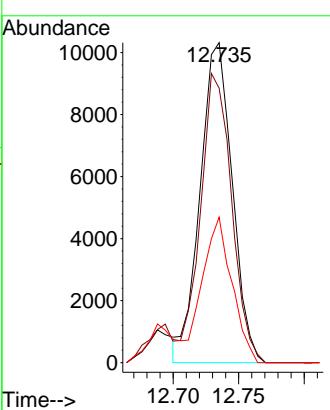


#81
trans-1,4-Dichloro-2-butene
Concen: 10.033 ug/l
RT: 12.735 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45

Instrument : MSVOA_N
ClientSampleId : VSTDICC010

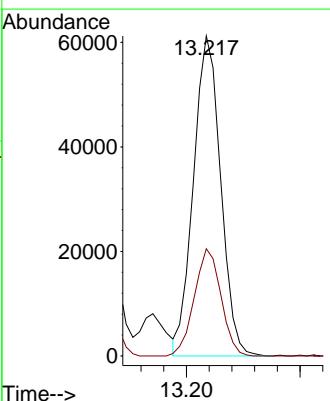
Manual Integrations APPROVED

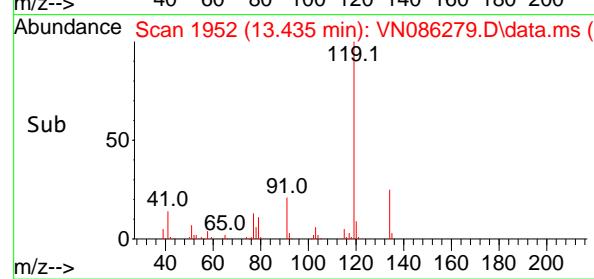
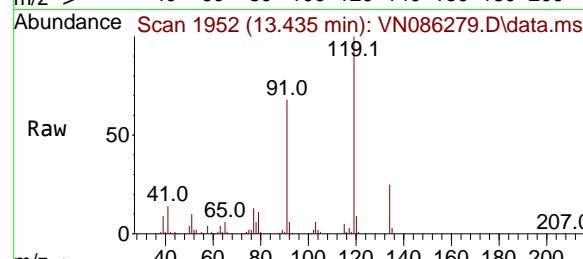
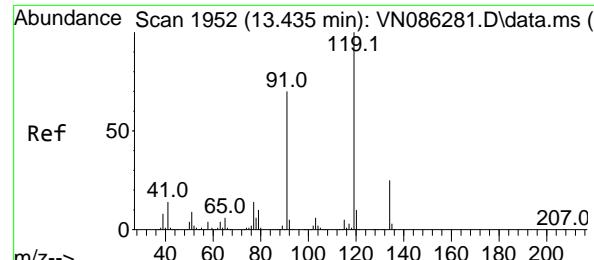
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#82
4-Chlorotoluene
Concen: 9.518 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45

Tgt Ion: 91 Resp: 101784
Ion Ratio Lower Upper
91 100
126 32.9 16.2 48.6





#83

tert-Butylbenzene

Concen: 9.636 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

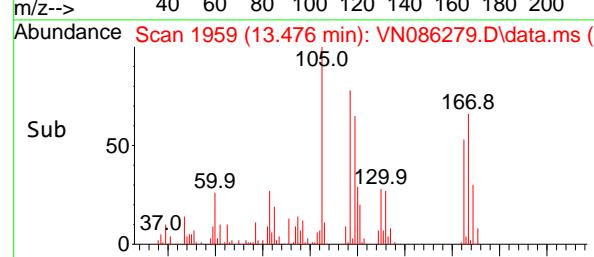
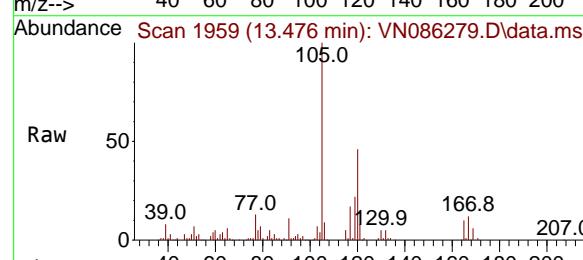
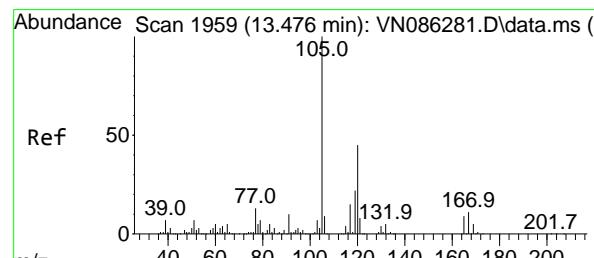
Instrument:

MSVOA_N

ClientSampleId :

VSTDICC010

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#84

1,2,4-Trimethylbenzene

Concen: 9.573 ug/l

RT: 13.476 min Scan# 1959

Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

Tgt Ion:105 Resp: 116448

Ion Ratio Lower Upper

105 100

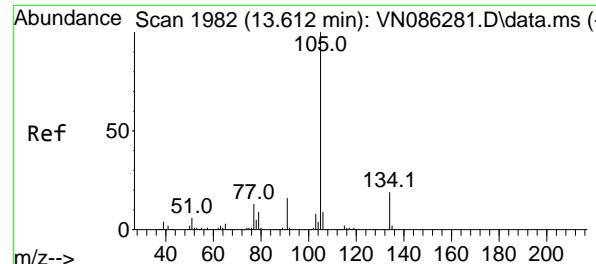
120 44.2 22.4 67.3

Time-->

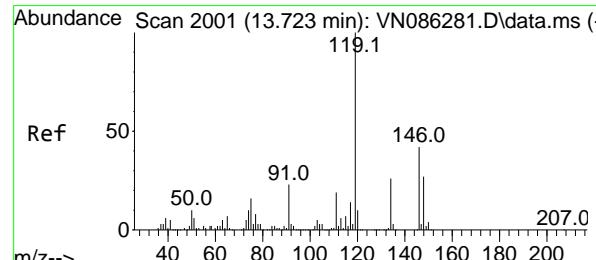
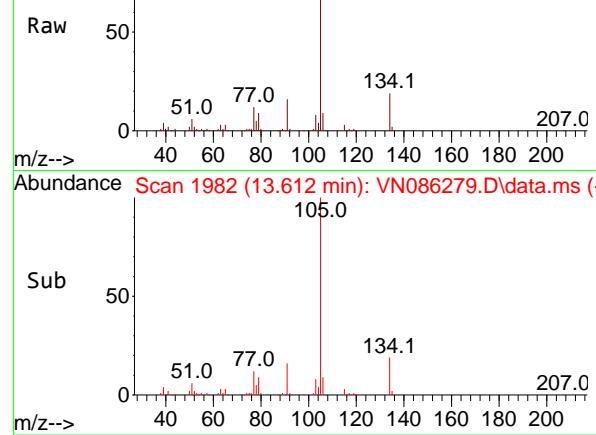
Abundance

13.476

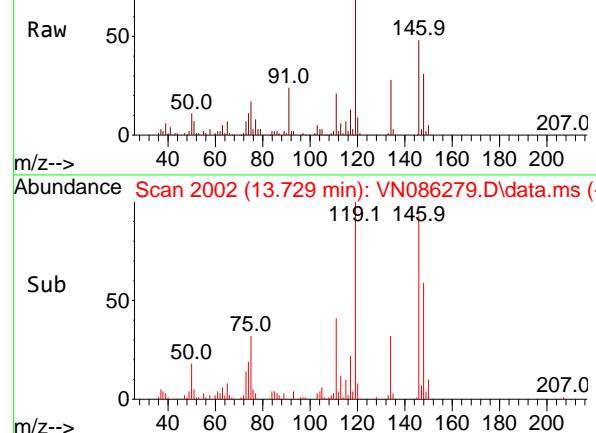
Time-->



Abundance Scan 1982 (13.612 min): VN086279.D\data.ms (-)



Abundance Scan 2002 (13.729 min): VN086279.D\data.ms (-)



#85

sec-Butylbenzene

Concen: 9.686 ug/l

RT: 13.612 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

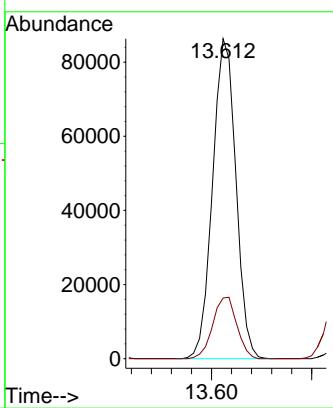
Instrument:

MSVOA_N

ClientSampleId :

VSTDICC010

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#86

p-Isopropyltoluene

Concen: 9.572 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.006 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

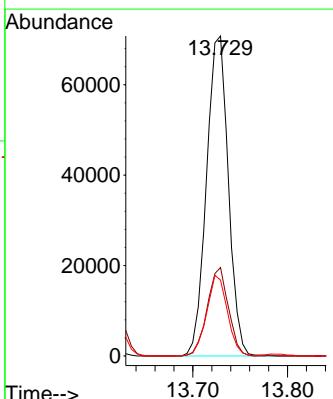
Tgt Ion:119 Resp: 113316

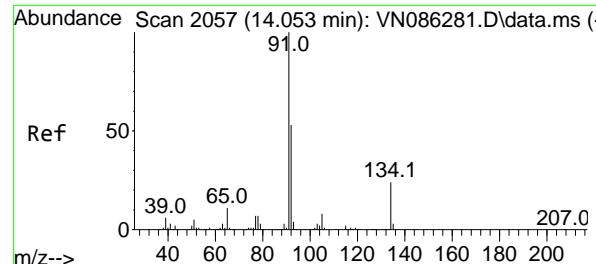
Ion Ratio Lower Upper

119 100

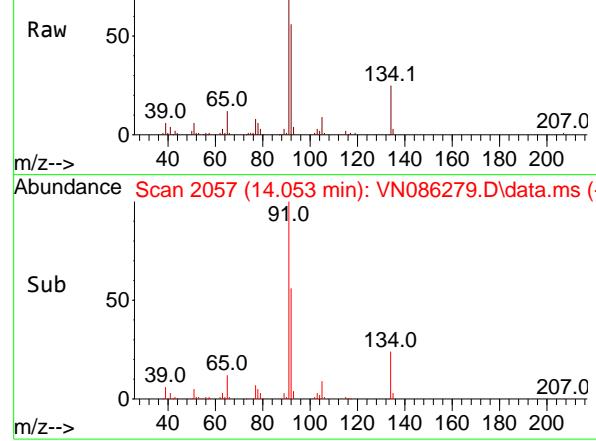
134 26.8 13.1 39.1

91 24.0 11.9 35.9





Abundance Scan 2057 (14.053 min): VN086279.D\data.ms (-)



#89

n-Butylbenzene

Concen: 9.340 ug/l

RT: 14.053 min Scan# 2

Instrument :

Delta R.T. -0.000 min

MSVOA_N

Lab File: VN086279.D

ClientSampleId :

Acq: 15 Apr 2025 12:45

VSTDICC010

Tgt Ion: 91 Resp: 98010

Ion Ratio Lower Upper

91 100

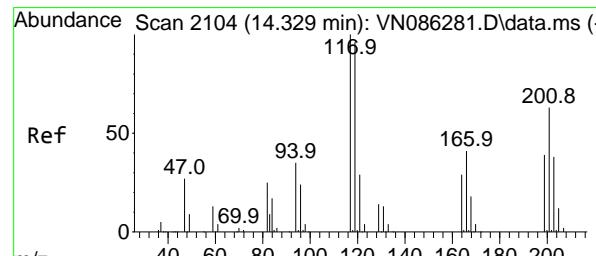
92 54.7 26.8 80.4

134 24.7 12.2 36.6

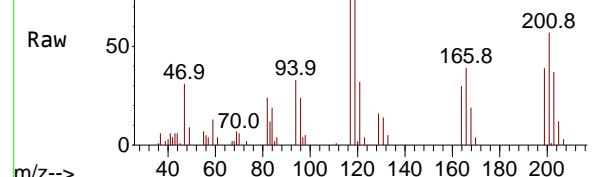
Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/16/2025

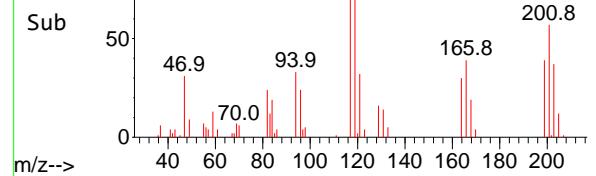
Supervised By :Semsettin Yesilyurt 04/16/2025



Abundance Scan 2104 (14.329 min): VN086279.D\data.ms (-)



Abundance Scan 2104 (14.329 min): VN086279.D\data.ms (-)



#90

Hexachloroethane

Concen: 9.503 ug/l

RT: 14.329 min Scan# 2104

Delta R.T. -0.000 min

Lab File: VN086279.D

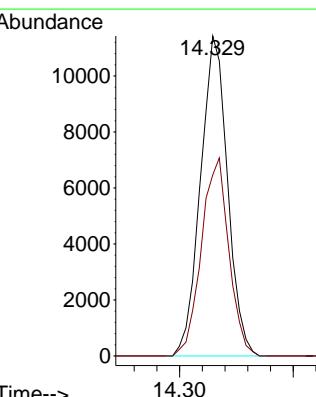
Acq: 15 Apr 2025 12:45

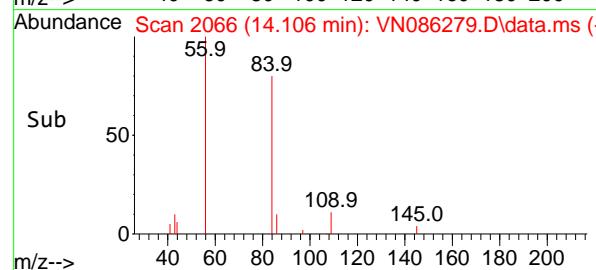
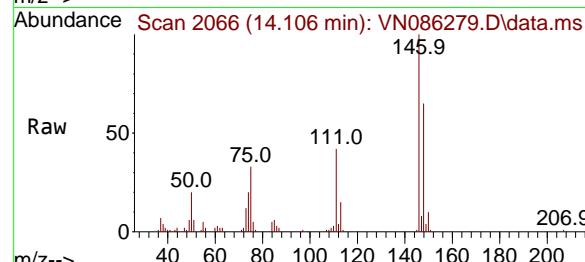
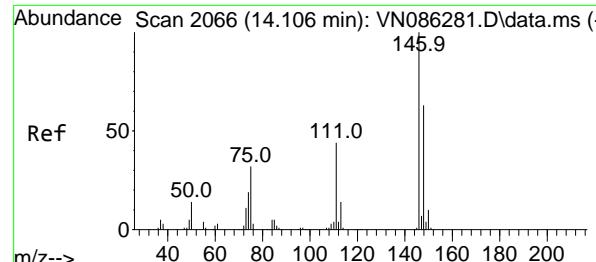
Tgt Ion: 117 Resp: 18922

Ion Ratio Lower Upper

117 100

201 62.8 31.4 94.2





#91

1,2-Dichlorobenzene

Concen: 9.473 ug/l

RT: 14.106 min Scan# 2

Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

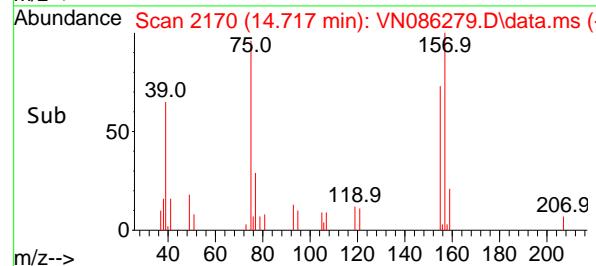
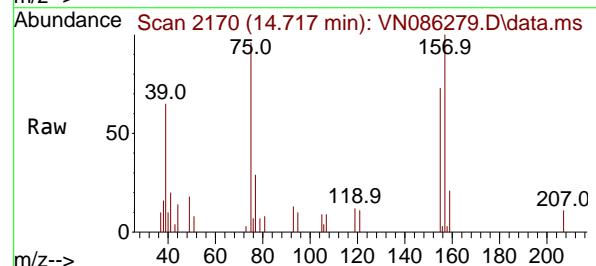
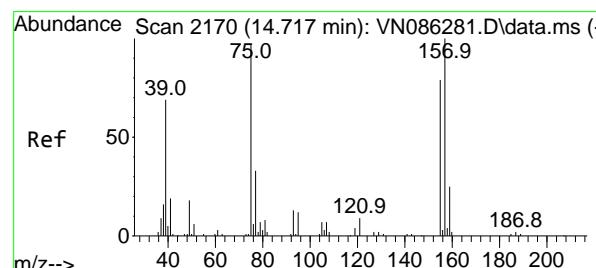
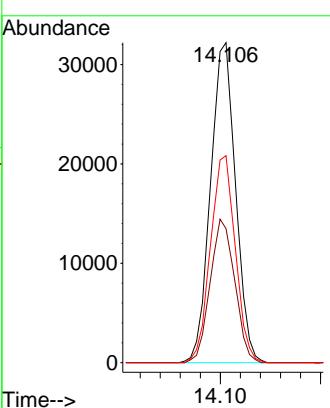
Instrument:

MSVOA_N

ClientSampleId :

VSTDICC010

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#92

1,2-Dibromo-3-Chloropropane

Concen: 9.646 ug/l

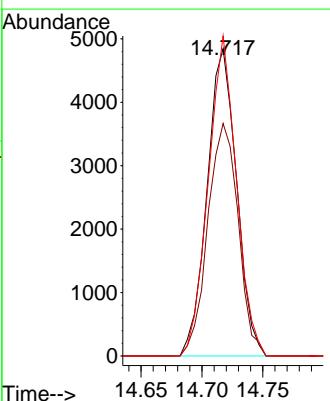
RT: 14.717 min Scan# 2170

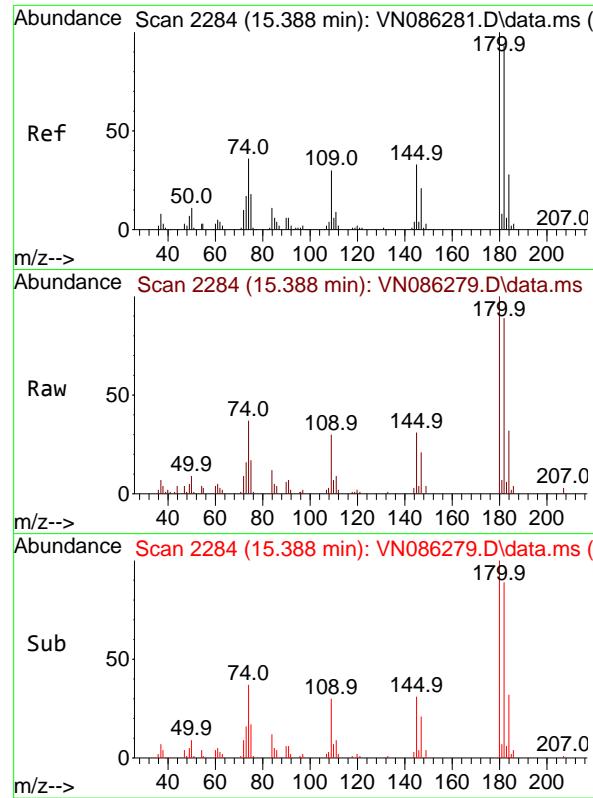
Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

| Tgt | Ion: | 75 | Resp: | 8165 |
|-----|-------|-------|-------|-------|
| Ion | Ratio | Lower | Upper | |
| | 75 | 100 | | |
| | 155 | 78.1 | 40.3 | 120.9 |
| | 157 | 99.5 | 49.0 | 147.2 |



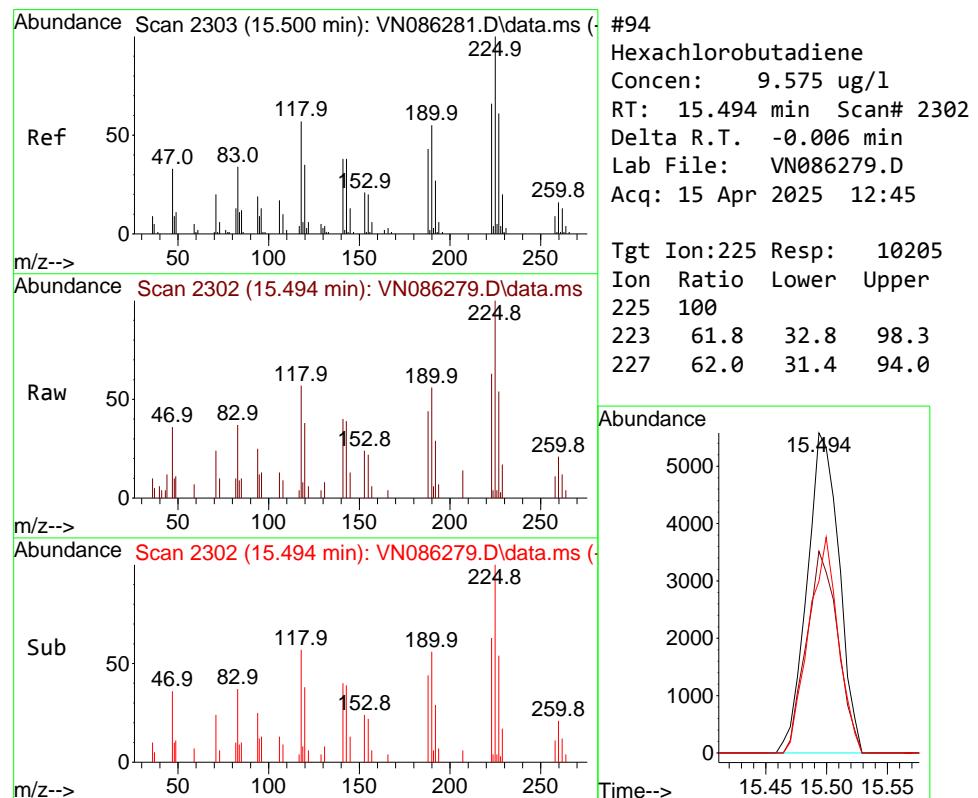
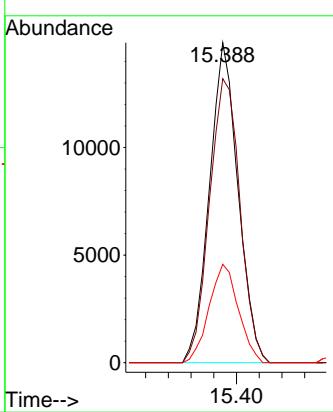


#93
1,2,4-Trichlorobenzene
Concen: 9.227 ug/l
RT: 15.388 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45

Instrument : MSVOA_N
ClientSampleId : VSTDICC010

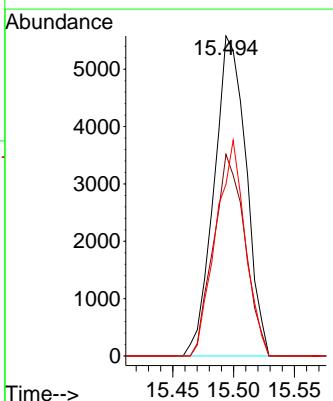
Manual Integrations APPROVED

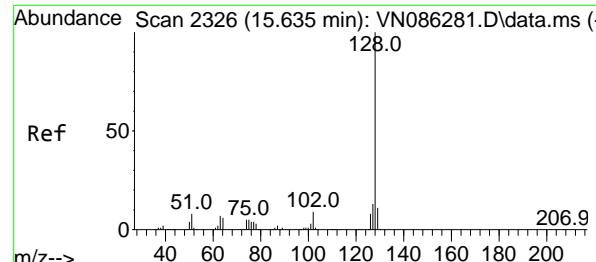
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



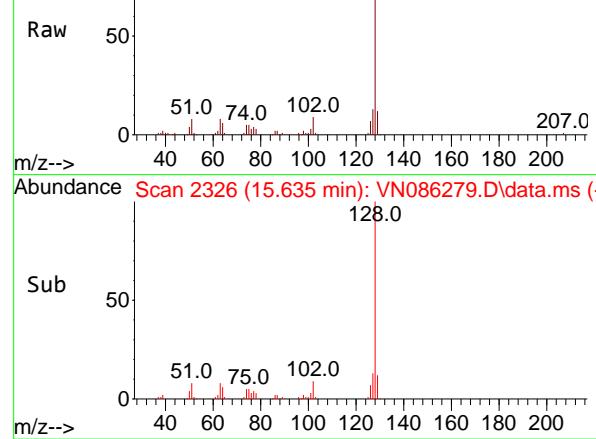
#94
Hexachlorobutadiene
Concen: 9.575 ug/l
RT: 15.494 min Scan# 2302
Delta R.T. -0.006 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45

Tgt Ion:225 Resp: 10205
Ion Ratio Lower Upper
225 100
223 61.8 32.8 98.3
227 62.0 31.4 94.0

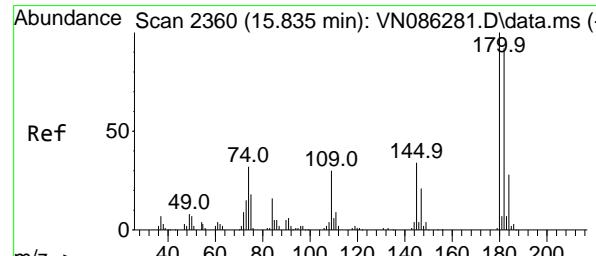
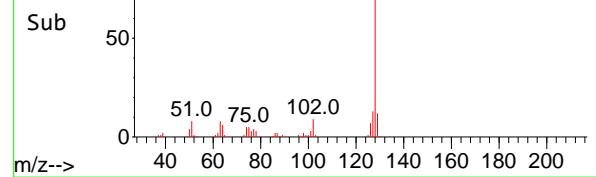




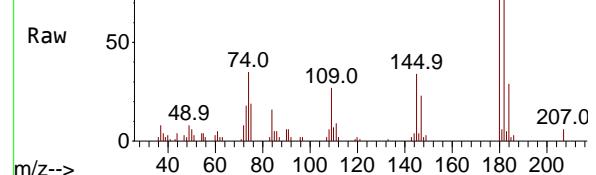
Abundance Scan 2326 (15.635 min): VN086279.D\data.ms (-)



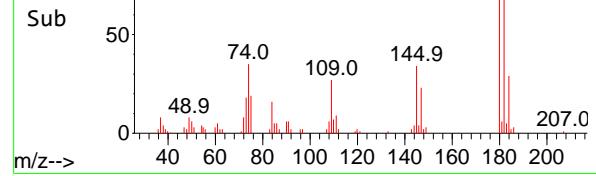
Abundance Scan 2326 (15.635 min): VN086279.D\data.ms (-)



Abundance Scan 2360 (15.835 min): VN086279.D\data.ms (-)



Abundance Scan 2360 (15.835 min): VN086279.D\data.ms (-)



#95

Naphthalene

Concen: 9.277 ug/l

RT: 15.635 min Scan# 2

Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion:128 Resp: 9284

Ion Ratio Lower Upper

128 100

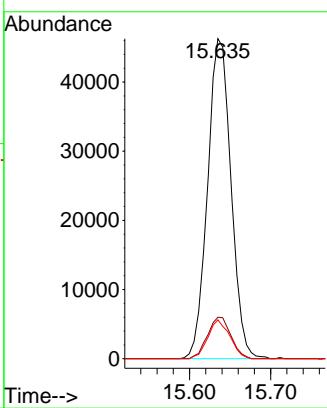
127 12.9 10.2 15.4

129 11.4 8.6 13.0

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#96

1,2,3-Trichlorobenzene

Concen: 9.308 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

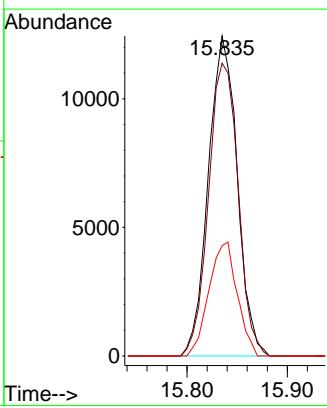
Tgt Ion:180 Resp: 24879

Ion Ratio Lower Upper

180 100

182 93.9 47.3 142.0

145 34.8 17.2 51.5



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041525\
 Data File : VN086280.D
 Acq On : 15 Apr 2025 13:09
 Operator : JC\MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Quant Time: Apr 16 03:57:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 03:42:50 2025
 Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :John Carlane 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|------------------------------------|----------------|------|----------|---------|---------|----------|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 8.224 | 168 | 217195 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 9.100 | 114 | 404366 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.865 | 117 | 355626 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.788 | 152 | 158232 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.577 | 65 | 61458 | 19.513 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery | = | 39.020% | # |
| 35) Dibromofluoromethane | 8.165 | 113 | 37195 | 19.819 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery | = | 39.640% | # |
| 50) Toluene-d8 | 10.565 | 98 | 191691 | 19.112 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery | = | 38.220% | # |
| 62) 4-Bromofluorobenzene | 12.847 | 95 | 68030 | 18.596 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery | = | 37.200% | # |
| Target Compounds | | | | | | |
| | | | | Qvalue | | |
| 2) Dichlorodifluoromethane | 2.124 | 85 | 54177 | 21.042 | ug/l | 99 |
| 3) Chloromethane | 2.359 | 50 | 71193 | 19.026 | ug/l | 98 |
| 4) Vinyl Chloride | 2.518 | 62 | 73472 | 20.576 | ug/l | 99 |
| 5) Bromomethane | 2.959 | 94 | 34343 | 21.382 | ug/l | 98 |
| 6) Chloroethane | 3.124 | 64 | 47157 | 19.732 | ug/l | 99 |
| 7) Trichlorofluoromethane | 3.501 | 101 | 80568 | 20.369 | ug/l | 98 |
| 8) Diethyl Ether | 3.959 | 74 | 36034 | 20.868 | ug/l | 96 |
| 9) 1,1,2-Trichlorotrifluo... | 4.371 | 101 | 49252 | 20.584 | ug/l | 99 |
| 10) Methyl Iodide | 4.589 | 142 | 55289 | 21.017 | ug/l | 99 |
| 11) Tert butyl alcohol | 5.512 | 59 | 61718 | 107.400 | ug/l | 97 |
| 12) 1,1-Dichloroethene | 4.348 | 96 | 51127 | 20.000 | ug/l | 98 |
| 13) Acrolein | 4.183 | 56 | 28121 | 95.627 | ug/l | 99 |
| 14) Allyl chloride | 5.024 | 41 | 89076 | 19.612 | ug/l | 99 |
| 15) Acrylonitrile | 5.712 | 53 | 148850 | 104.781 | ug/l | 100 |
| 16) Acetone | 4.424 | 43 | 122726 | 109.479 | ug/l | 98 |
| 17) Carbon Disulfide | 4.712 | 76 | 149518 | 19.534 | ug/l | 100 |
| 18) Methyl Acetate | 5.024 | 43 | 75070 | 19.857 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 5.795 | 73 | 191056 | 20.332 | ug/l | 97 |
| 20) Methylene Chloride | 5.277 | 84 | 58230 | 19.999 | ug/l | 98 |
| 21) trans-1,2-Dichloroethene | 5.789 | 96 | 53894 | 20.165 | ug/l | 99 |
| 22) Diisopropyl ether | 6.671 | 45 | 196831 | 19.911 | ug/l | 98 |
| 23) Vinyl Acetate | 6.600 | 43 | 713534m | 103.278 | ug/l | |
| 24) 1,1-Dichloroethane | 6.565 | 63 | 104777 | 20.087 | ug/l | 99 |
| 25) 2-Butanone | 7.477 | 43 | 202298 | 103.191 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 7.489 | 77 | 94147 | 20.159 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 7.483 | 96 | 66347 | 20.001 | ug/l | 99 |
| 28) Bromochloromethane | 7.812 | 49 | 40391 | 18.263 | ug/l | 100 |
| 29) Tetrahydrofuran | 7.836 | 42 | 136348 | 104.008 | ug/l | 99 |
| 30) Chloroform | 7.965 | 83 | 103881 | 20.274 | ug/l | 100 |
| 31) Cyclohexane | 8.253 | 56 | 101546 | 19.895 | ug/l | 97 |
| 32) 1,1,1-Trichloroethane | 8.165 | 97 | 89173 | 20.344 | ug/l | 97 |
| 36) 1,1-Dichloropropene | 8.365 | 75 | 75426 | 20.122 | ug/l | 99 |
| 37) Ethyl Acetate | 7.553 | 43 | 79383 | 20.115 | ug/l | 99 |
| 38) Carbon Tetrachloride | 8.359 | 117 | 72704 | 20.367 | ug/l | 99 |
| 39) Methylcyclohexane | 9.594 | 83 | 88728 | 19.915 | ug/l | 98 |
| 40) Benzene | 8.600 | 78 | 243918 | 20.310 | ug/l | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041525\
 Data File : VN086280.D
 Acq On : 15 Apr 2025 13:09
 Operator : JC\MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Quant Time: Apr 16 03:57:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 03:42:50 2025
 Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :John Carlane 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile | 7.777 | 41 | 45760 | 20.007 | ug/1 | 100 |
| 42) 1,2-Dichloroethane | 8.665 | 62 | 77932 | 20.348 | ug/1 | 100 |
| 43) Isopropyl Acetate | 8.683 | 43 | 157753 | 20.921 | ug/1 | 99 |
| 44) Trichloroethene | 9.353 | 130 | 56926 | 19.998 | ug/1 | 99 |
| 45) 1,2-Dichloropropane | 9.618 | 63 | 59599 | 20.273 | ug/1 | 98 |
| 46) Dibromomethane | 9.706 | 93 | 38601 | 20.608 | ug/1 | 98 |
| 47) Bromodichloromethane | 9.888 | 83 | 82517 | 20.397 | ug/1 | 98 |
| 48) Methyl methacrylate | 9.677 | 41 | 69986 | 20.195 | ug/1 | 99 |
| 49) 1,4-Dioxane | 9.694 | 88 | 24362 | 413.277 | ug/1 | 98 |
| 51) 4-Methyl-2-Pentanone | 10.441 | 43 | 421471 | 104.297 | ug/1 | 100 |
| 52) Toluene | 10.630 | 92 | 152248 | 20.317 | ug/1 | 99 |
| 53) t-1,3-Dichloropropene | 10.830 | 75 | 92441 | 20.470 | ug/1 | 100 |
| 54) cis-1,3-Dichloropropene | 10.312 | 75 | 100415 | 20.245 | ug/1 | 99 |
| 55) 1,1,2-Trichloroethane | 11.012 | 97 | 53630 | 19.891 | ug/1 | 97 |
| 56) Ethyl methacrylate | 10.871 | 69 | 100712 | 20.321 | ug/1 | 99 |
| 57) 1,3-Dichloropropane | 11.159 | 76 | 97363 | 20.353 | ug/1 | 98 |
| 58) 2-Chloroethyl Vinyl ether | 10.159 | 63 | 222766 | 94.702 | ug/1 | 100 |
| 59) 2-Hexanone | 11.194 | 43 | 309954 | 103.408 | ug/1 | 100 |
| 60) Dibromochloromethane | 11.359 | 129 | 60596 | 20.467 | ug/1 | 100 |
| 61) 1,2-Dibromoethane | 11.465 | 107 | 56679 | 20.834 | ug/1 | 99 |
| 64) Tetrachloroethene | 11.100 | 164 | 55481 | 20.282 | ug/1 | 97 |
| 65) Chlorobenzene | 11.888 | 112 | 158917 | 20.024 | ug/1 | 98 |
| 66) 1,1,1,2-Tetrachloroethane | 11.959 | 131 | 52389 | 20.010 | ug/1 | 98 |
| 67) Ethyl Benzene | 11.959 | 91 | 288483 | 20.144 | ug/1 | 99 |
| 68) m/p-Xylenes | 12.071 | 106 | 215301 | 40.122 | ug/1 | 99 |
| 69) o-Xylene | 12.394 | 106 | 107161 | 20.193 | ug/1 | 99 |
| 70) Styrene | 12.406 | 104 | 177099 | 20.029 | ug/1 | 99 |
| 71) Bromoform | 12.576 | 173 | 39697 | 20.138 | ug/1 # | 98 |
| 73) Isopropylbenzene | 12.694 | 105 | 264607 | 20.443 | ug/1 | 99 |
| 74) N-amyl acetate | 12.488 | 43 | 126575 | 19.643 | ug/1 | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.935 | 83 | 76740 | 20.620 | ug/1 | 99 |
| 76) 1,2,3-Trichloropropane | 12.988 | 75 | 74829m | 20.130 | ug/1 | |
| 77) Bromobenzene | 12.976 | 156 | 59889 | 20.882 | ug/1 | 99 |
| 78) n-propylbenzene | 13.029 | 91 | 307737 | 20.176 | ug/1 | 100 |
| 79) 2-Chlorotoluene | 13.124 | 91 | 193569 | 20.281 | ug/1 | 99 |
| 80) 1,3,5-Trimethylbenzene | 13.171 | 105 | 216364 | 20.423 | ug/1 | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.735 | 75 | 31256m | 20.104 | ug/1 | |
| 82) 4-Chlorotoluene | 13.218 | 91 | 192849 | 20.341 | ug/1 | 99 |
| 83) tert-Butylbenzene | 13.435 | 119 | 182683 | 19.901 | ug/1 | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.476 | 105 | 217135 | 20.135 | ug/1 | 100 |
| 85) sec-Butylbenzene | 13.612 | 105 | 252593 | 19.838 | ug/1 | 99 |
| 86) p-Isopropyltoluene | 13.723 | 119 | 208256 | 19.844 | ug/1 | 100 |
| 87) 1,3-Dichlorobenzene | 13.729 | 146 | 107491 | 19.938 | ug/1 | 99 |
| 88) 1,4-Dichlorobenzene | 13.812 | 146 | 108412 | 19.964 | ug/1 | 99 |
| 89) n-Butylbenzene | 14.053 | 91 | 184852 | 19.871 | ug/1 | 99 |
| 90) Hexachloroethane | 14.329 | 117 | 35250 | 19.968 | ug/1 | 95 |
| 91) 1,2-Dichlorobenzene | 14.100 | 146 | 104185 | 19.932 | ug/1 | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.717 | 75 | 15863 | 21.139 | ug/1 | 97 |
| 93) 1,2,4-Trichlorobenzene | 15.388 | 180 | 50179 | 20.048 | ug/1 | 99 |
| 94) Hexachlorobutadiene | 15.494 | 225 | 19024 | 20.135 | ug/1 | 99 |
| 95) Naphthalene | 15.635 | 128 | 183816 | 20.717 | ug/1 | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.835 | 180 | 47425 | 20.013 | ug/1 | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041525\
Data File : VN086280.D
Acq On : 15 Apr 2025 13:09
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carbone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

Quant Time: Apr 16 03:57:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 16 03:42:50 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

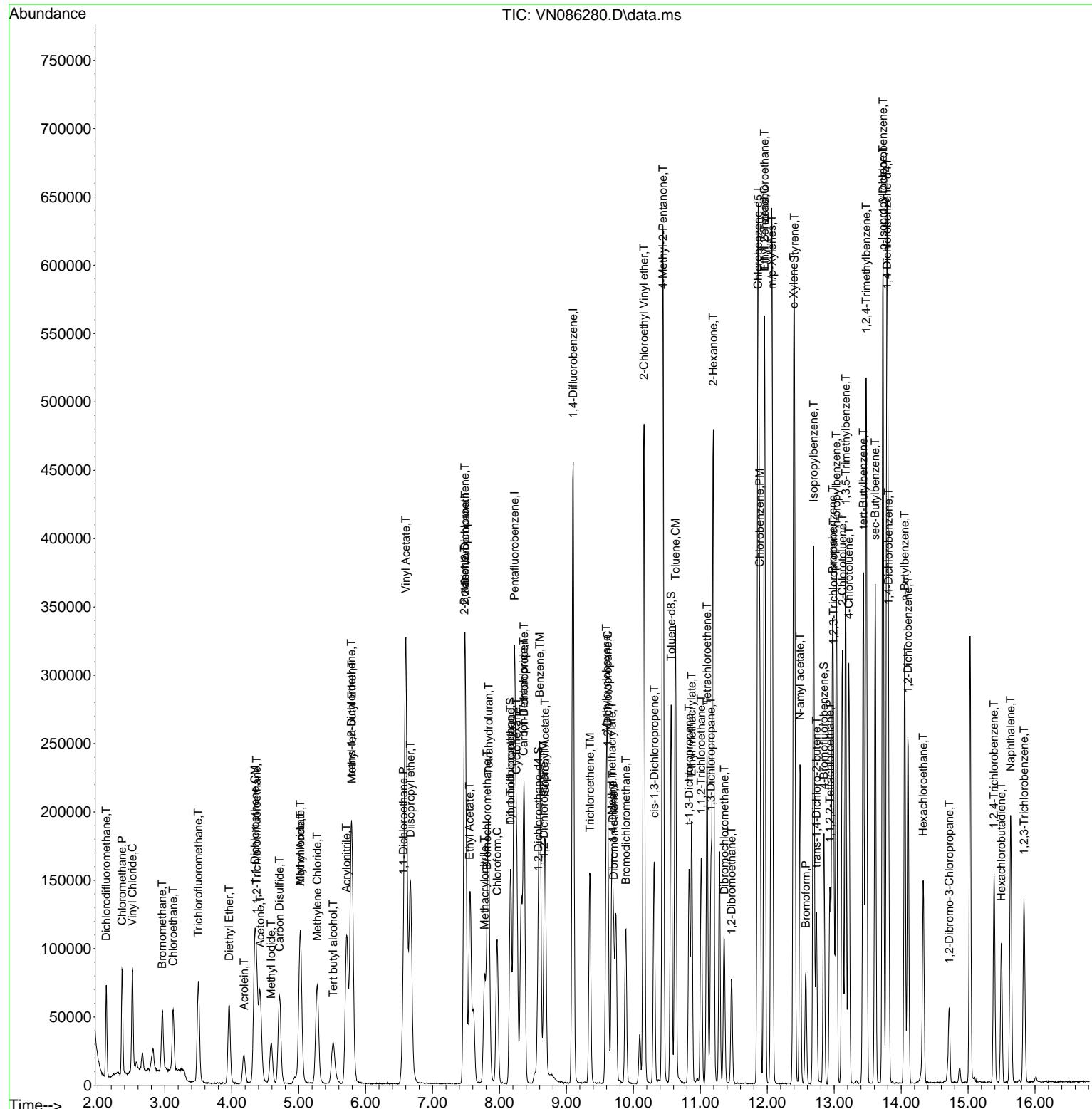
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 Operator : JC\MD
 Sample : VSTDIICC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

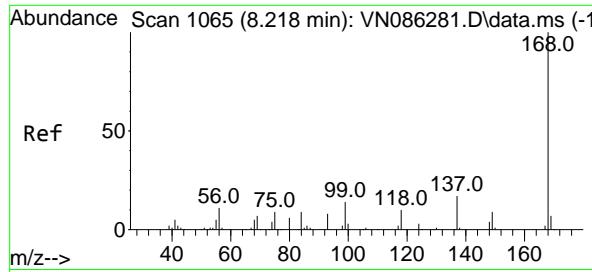
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 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 03:42:50 2025
 Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDIICC020

Manual Integrations
APPROVED

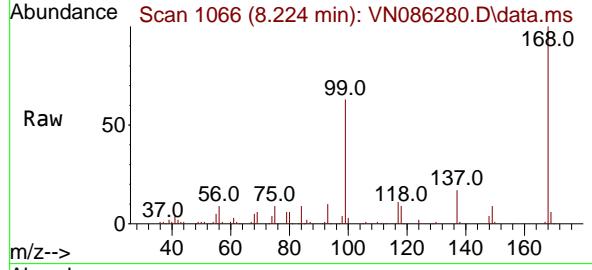
Reviewed By :John Carlane 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025





#1
 Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 8.224 min Scan# 1
 Delta R.T. 0.006 min
 Lab File: VN086280.D
 Acq: 15 Apr 2025 13:09

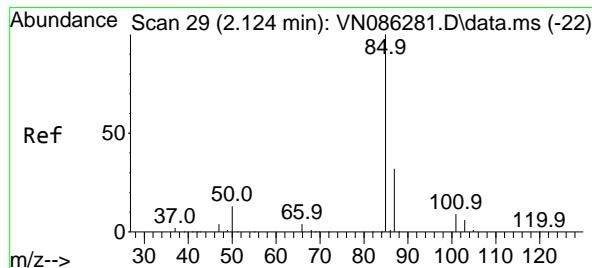
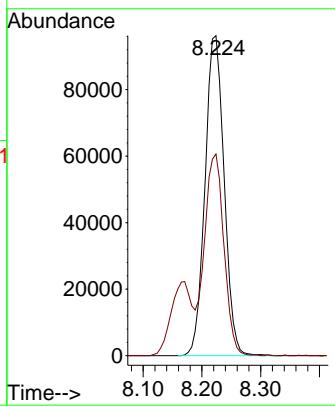
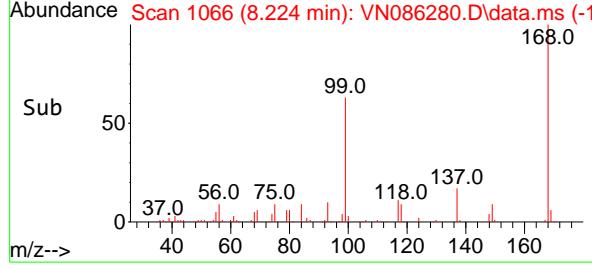
Instrument : MSVOA_N
 ClientSampleId : VSTDICC020



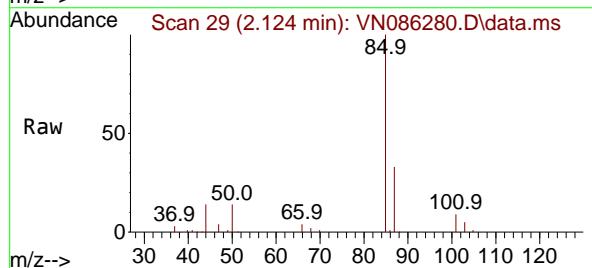
Tgt Ion:168 Resp: 21719
 Ion Ratio Lower Upper
 168 100
 99 63.1 52.5 78.7

Manual Integrations
APPROVED

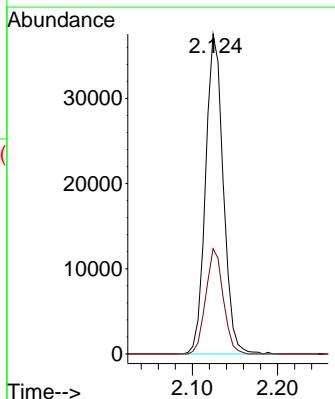
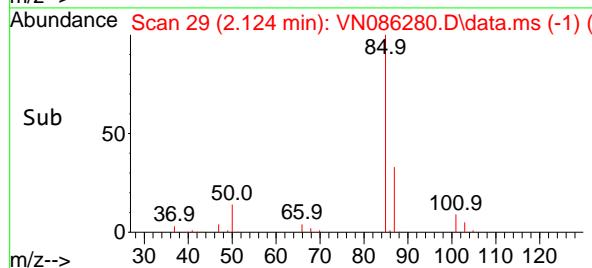
Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025

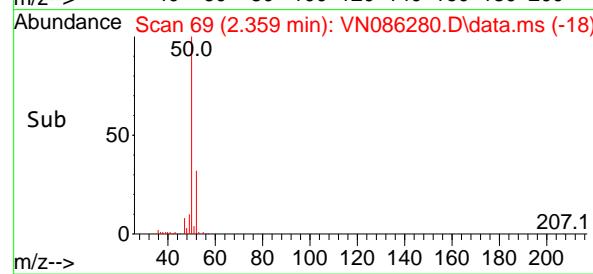
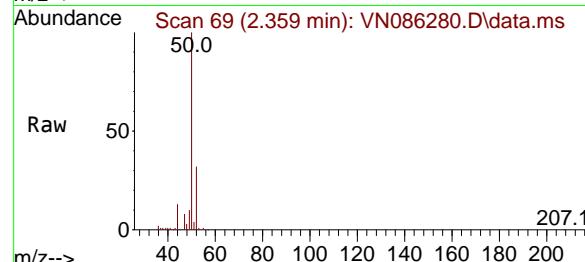
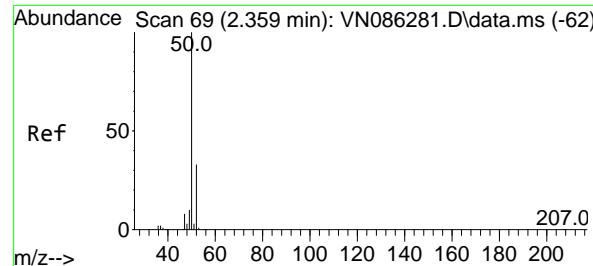


#2
 Dichlorodifluoromethane
 Concen: 21.042 ug/l
 RT: 2.124 min Scan# 29
 Delta R.T. 0.000 min
 Lab File: VN086280.D
 Acq: 15 Apr 2025 13:09



Tgt Ion: 85 Resp: 54177
 Ion Ratio Lower Upper
 85 100
 87 32.9 16.3 48.8



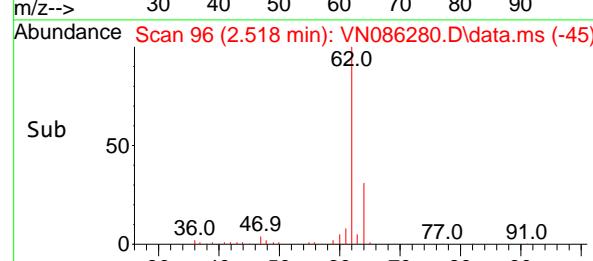
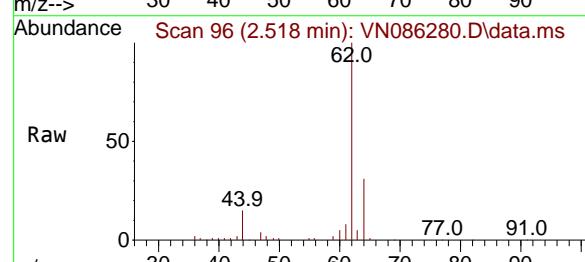
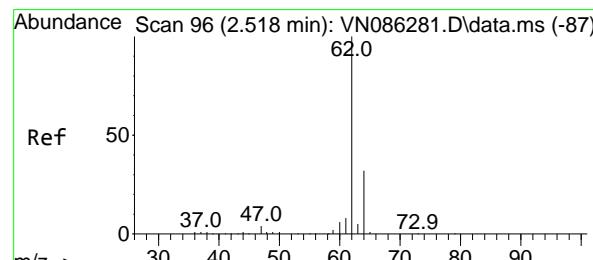
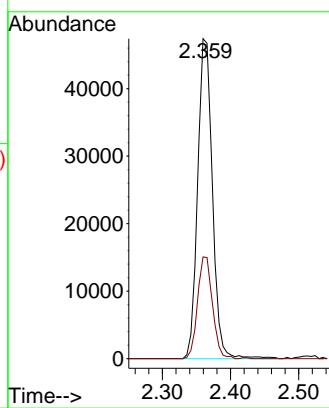


#3
 Chloromethane
 Concen: 19.026 ug/l
 RT: 2.359 min Scan# 6
 Delta R.T. 0.000 min
 Lab File: VN086280.D
 Acq: 15 Apr 2025 13:09

Instrument : MSVOA_N
 ClientSampleId : VSTDICC020

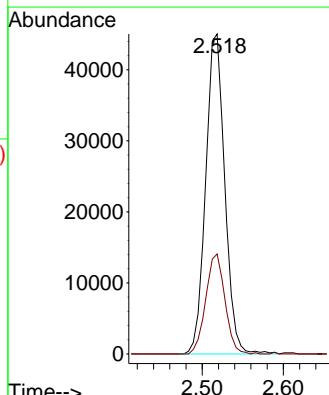
Manual Integrations APPROVED

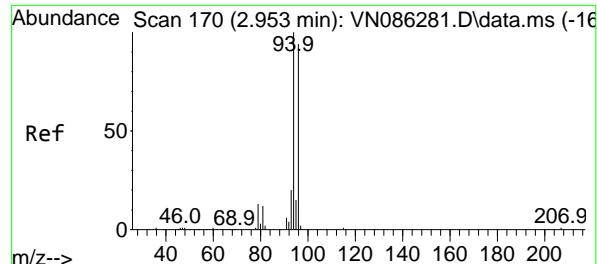
Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025



#4
 Vinyl Chloride
 Concen: 20.576 ug/l
 RT: 2.518 min Scan# 96
 Delta R.T. 0.000 min
 Lab File: VN086280.D
 Acq: 15 Apr 2025 13:09

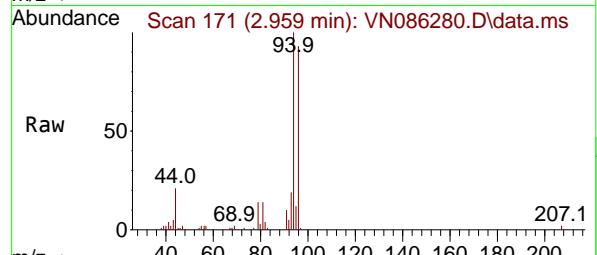
Tgt Ion: 62 Resp: 73472
 Ion Ratio Lower Upper
 62 100
 64 31.2 25.6 38.4





#5
Bromomethane
Concen: 21.382 ug/l
RT: 2.959 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN086280.D
Acq: 15 Apr 2025 13:09

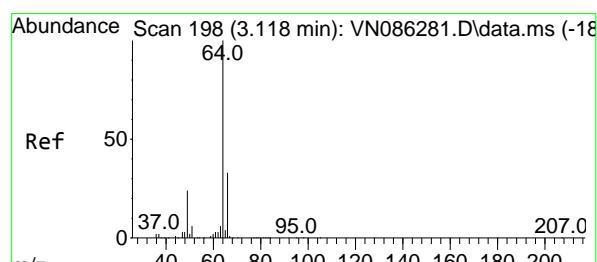
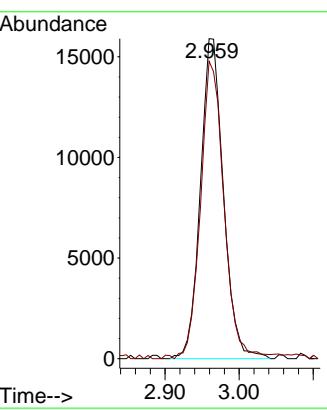
Instrument : MSVOA_N
ClientSampleId : VSTDICC020



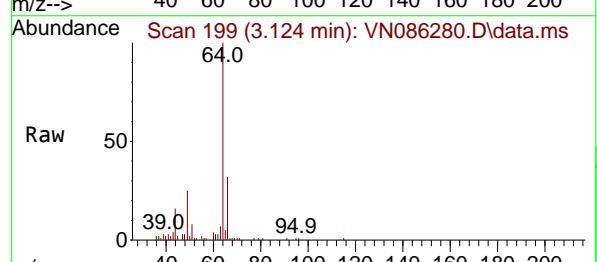
Tgt Ion: 94 Resp: 3434
Ion Ratio Lower Upper
94 100
96 92.0 75.2 112.8

Manual Integrations
APPROVED

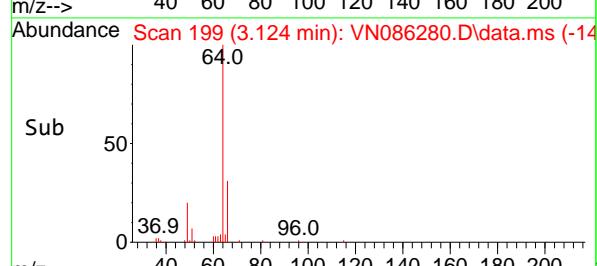
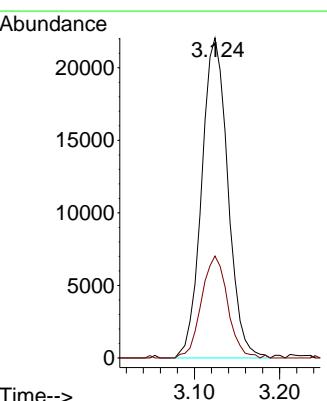
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

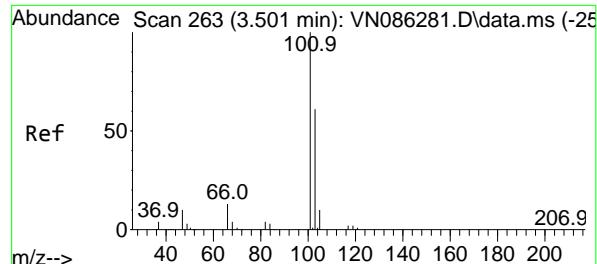


#6
Chloroethane
Concen: 19.732 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.006 min
Lab File: VN086280.D
Acq: 15 Apr 2025 13:09



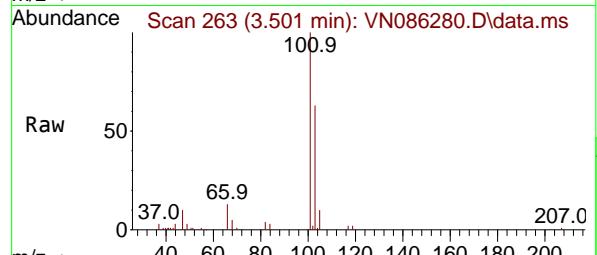
Tgt Ion: 64 Resp: 47157
Ion Ratio Lower Upper
64 100
66 31.9 26.2 39.2





#7
Trichlorofluoromethane
Concen: 20.369 ug/l
RT: 3.501 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN086280.D
Acq: 15 Apr 2025 13:09

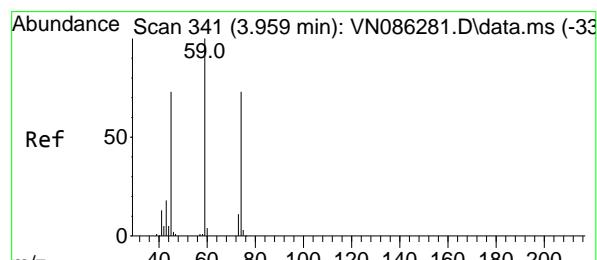
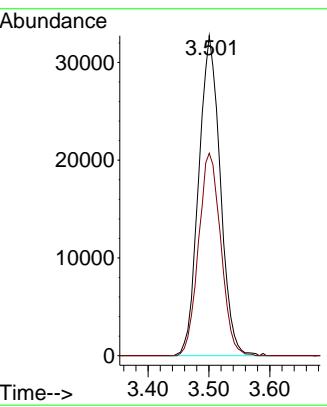
Instrument : MSVOA_N
ClientSampleId : VSTDICC020



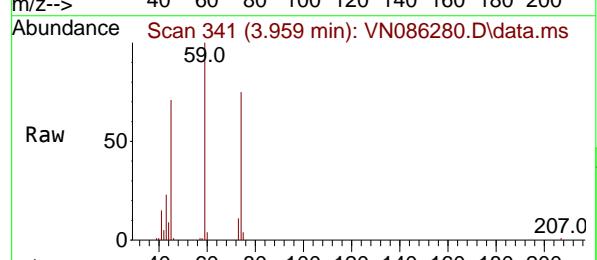
Tgt Ion:101 Resp: 80562
Ion Ratio Lower Upper
101 100
103 63.3 49.2 73.8

Manual Integrations
APPROVED

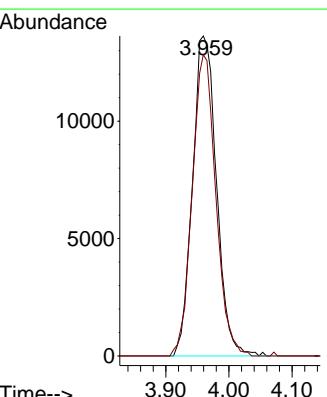
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

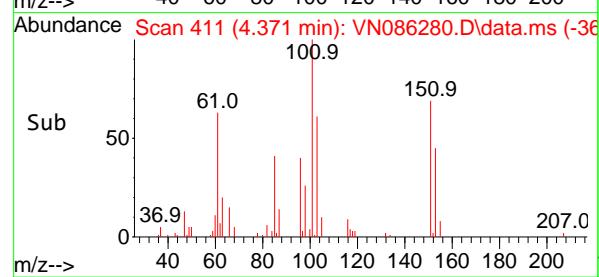
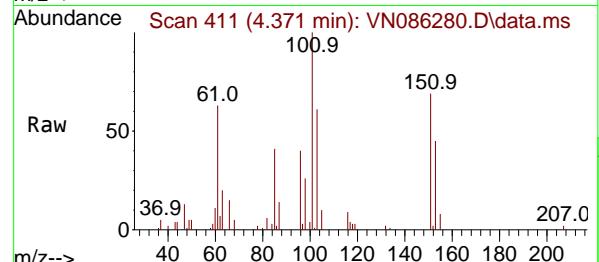
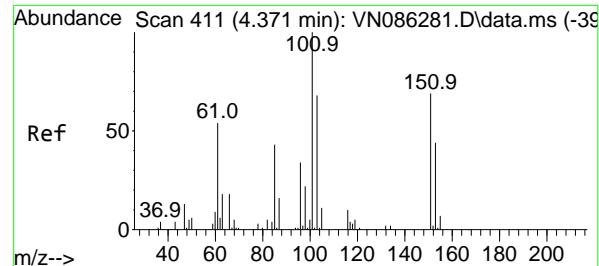


#8
Diethyl Ether
Concen: 20.868 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.000 min
Lab File: VN086280.D
Acq: 15 Apr 2025 13:09



Tgt Ion: 74 Resp: 36034
Ion Ratio Lower Upper
74 100
45 92.5 48.0 144.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.584 ug/l

RT: 4.371 min Scan# 4

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

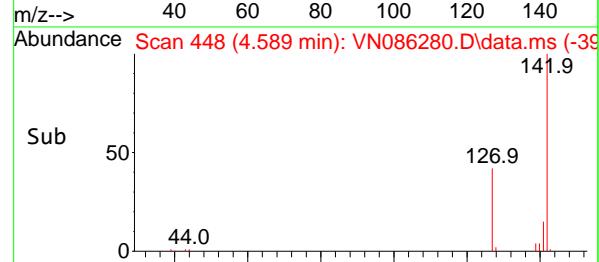
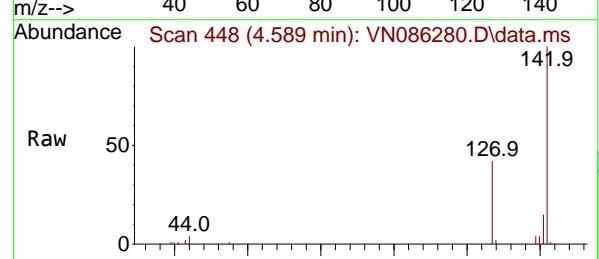
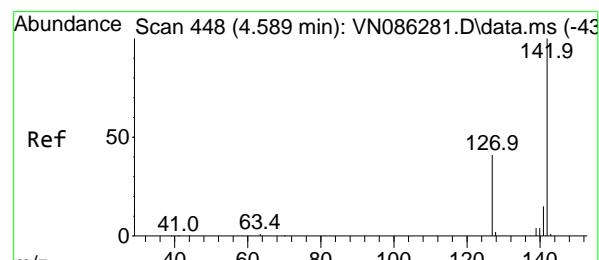
Instrument:

MSVOA_N

ClientSampleId :

VSTDICC020

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#10

Methyl Iodide

Concen: 21.017 ug/l

RT: 4.589 min Scan# 448

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

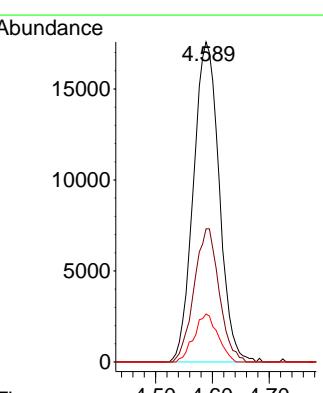
Tgt Ion:142 Resp: 55289

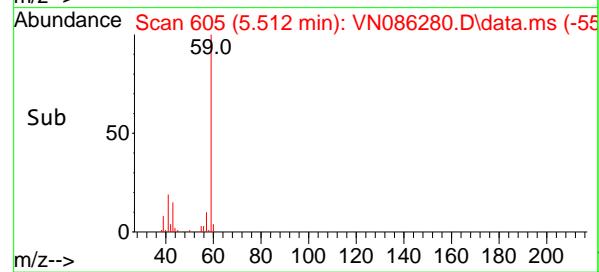
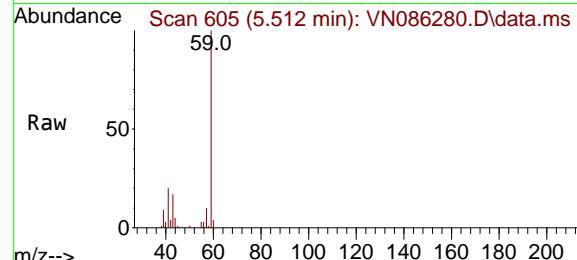
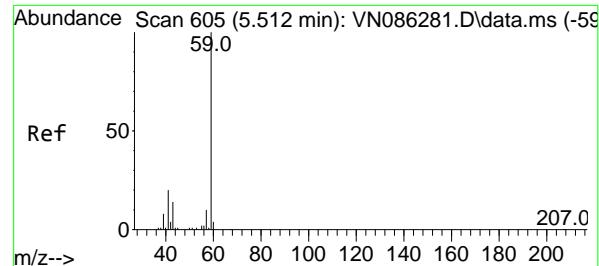
Ion Ratio Lower Upper

142 100

127 41.6 32.7 49.1

141 15.0 11.7 17.5





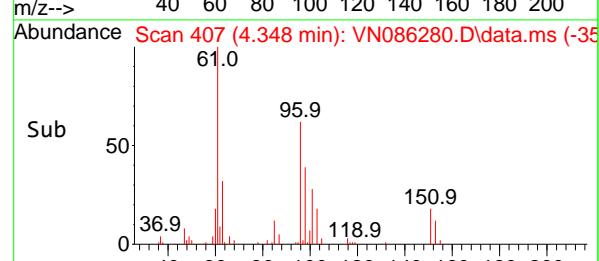
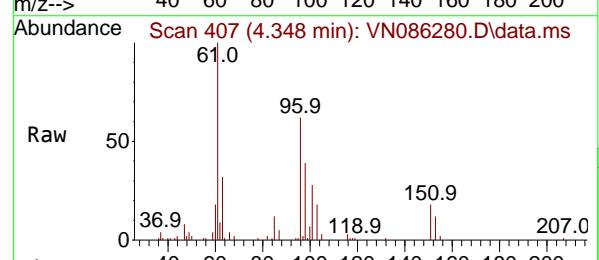
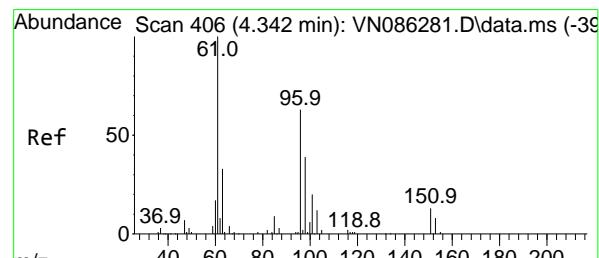
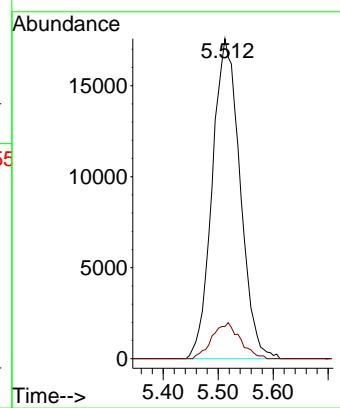
#11

Tert butyl alcohol
Concen: 107.400 ug/l
RT: 5.512 min Scan# 61171
Delta R.T. 0.000 min
Lab File: VN086280.D
Acq: 15 Apr 2025 13:09

Instrument : MSVOA_N
ClientSampleId : VSTDICC020

Manual Integrations APPROVED

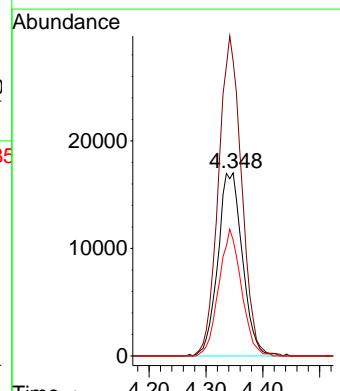
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

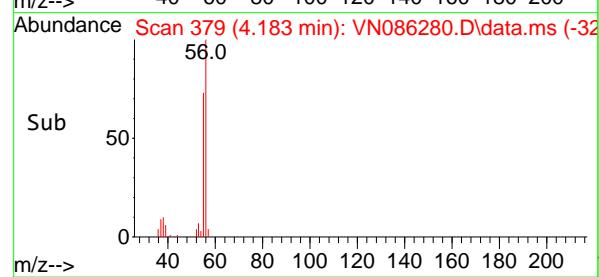
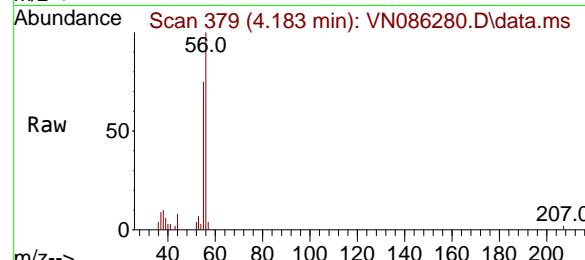
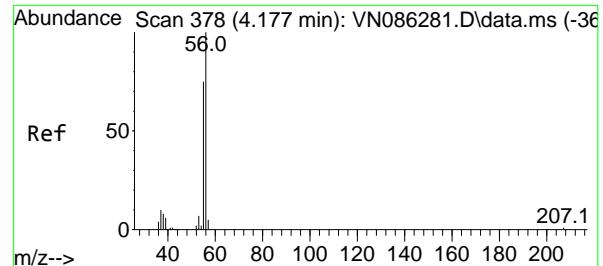


#12

1,1-Dichloroethene
Concen: 20.000 ug/l
RT: 4.348 min Scan# 407
Delta R.T. 0.006 min
Lab File: VN086280.D
Acq: 15 Apr 2025 13:09

Tgt Ion: 96 Resp: 51127
Ion Ratio Lower Upper
96 100
61 161.3 126.6 189.8
98 63.4 49.6 74.4





#13

Acrolein

Concen: 95.627 ug/l

RT: 4.183 min Scan# 3

Delta R.T. 0.006 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

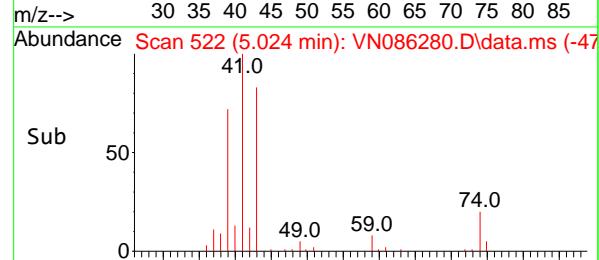
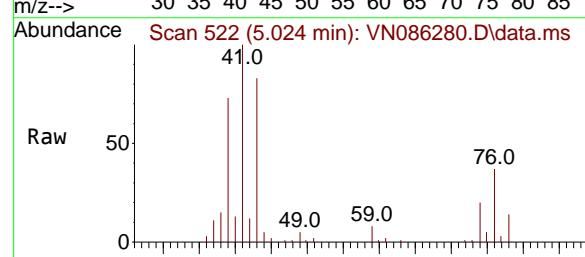
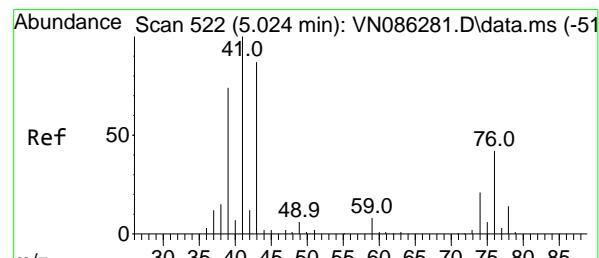
Instrument:

MSVOA_N

ClientSampleId :

VSTDICC020

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#14

Allyl chloride

Concen: 19.612 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

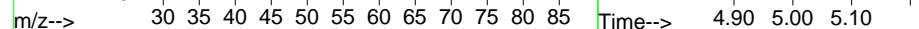
Tgt Ion: 41 Resp: 89076

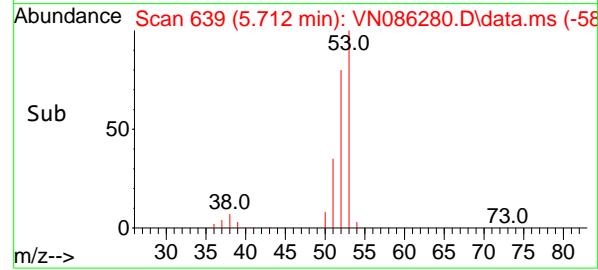
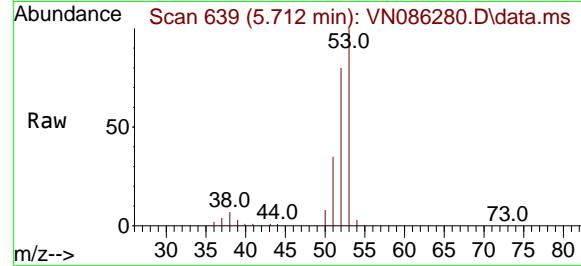
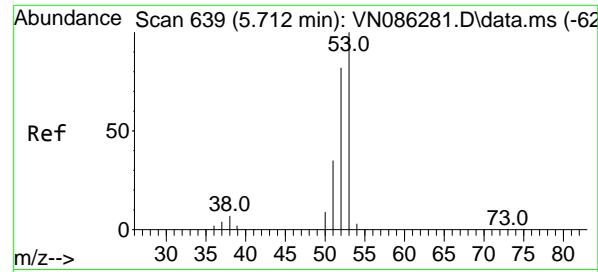
Ion Ratio Lower Upper

41 100

39 73.7 59.2 88.8

76 37.5 31.2 46.8





#15

Acrylonitrile

Concen: 104.781 ug/l

RT: 5.712 min Scan# 6

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

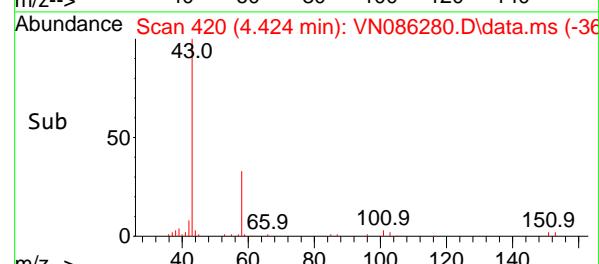
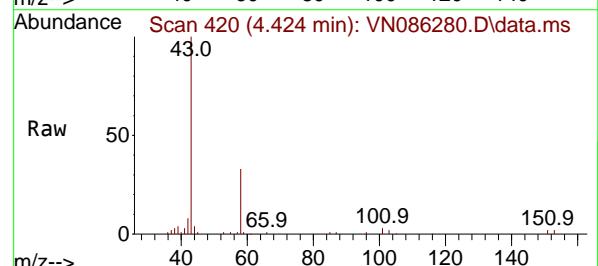
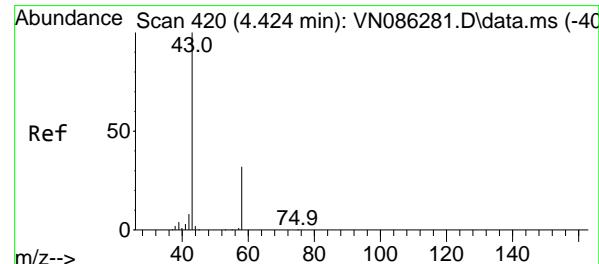
Instrument:

MSVOA_N

ClientSampleId :

VSTDICC020

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#16

Acetone

Concen: 109.479 ug/l

RT: 4.424 min Scan# 420

Delta R.T. 0.000 min

Lab File: VN086280.D

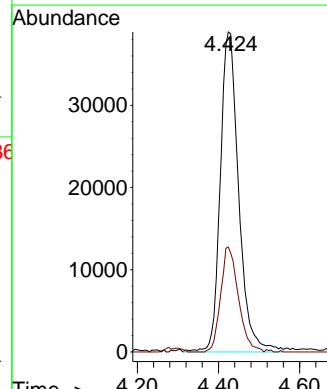
Acq: 15 Apr 2025 13:09

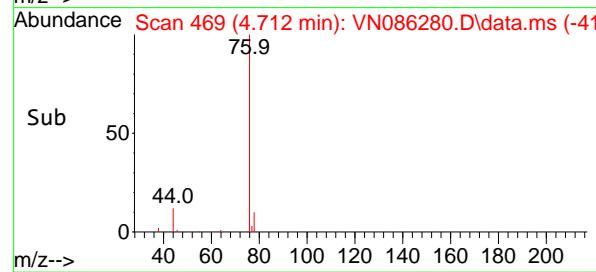
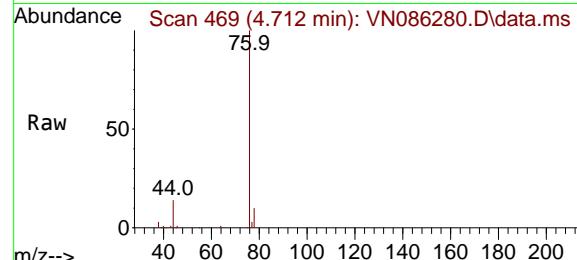
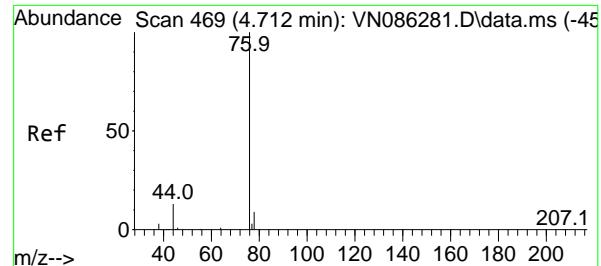
Tgt Ion: 43 Resp: 122726

Ion Ratio Lower Upper

43 100

58 32.8 25.3 37.9





#17

Carbon Disulfide

Concen: 19.534 ug/l

RT: 4.712 min Scan# 4

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

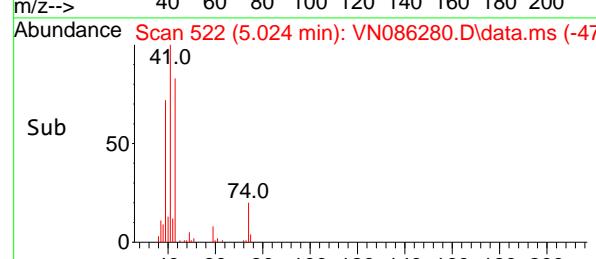
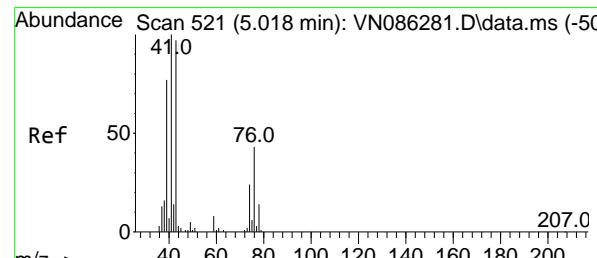
Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Manual Integrations
APPROVED

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#18

Methyl Acetate

Concen: 19.857 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.006 min

Lab File: VN086280.D

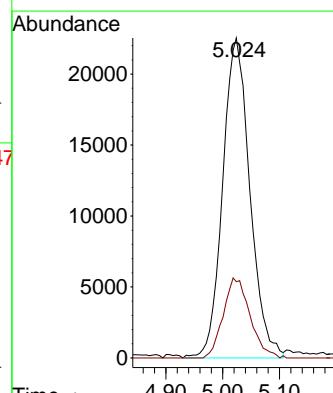
Acq: 15 Apr 2025 13:09

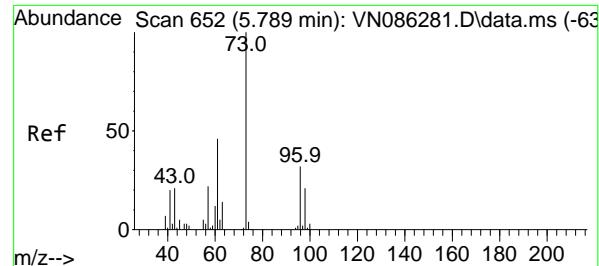
Tgt Ion: 43 Resp: 75070

Ion Ratio Lower Upper

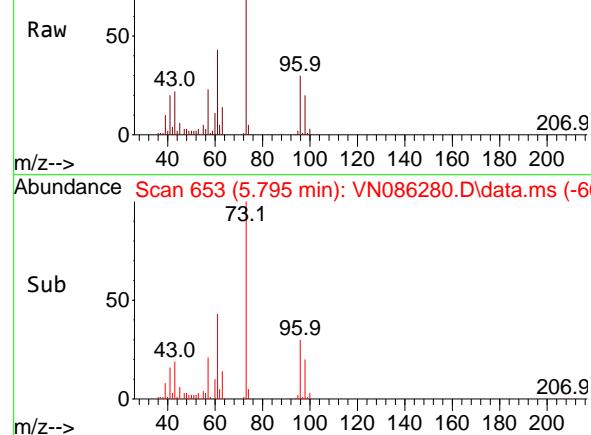
43 100

74 24.6 19.8 29.6

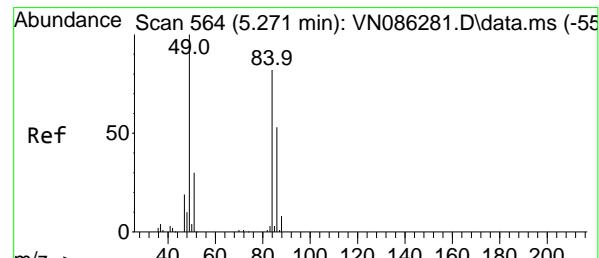
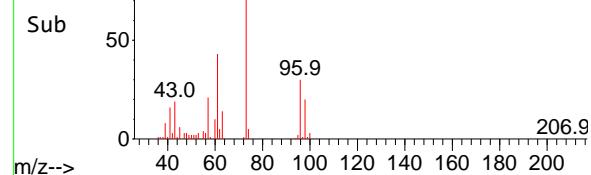




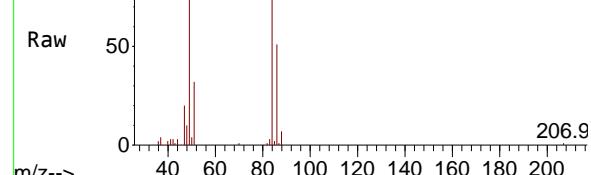
Abundance Scan 653 (5.795 min): VN086280.D\data.ms



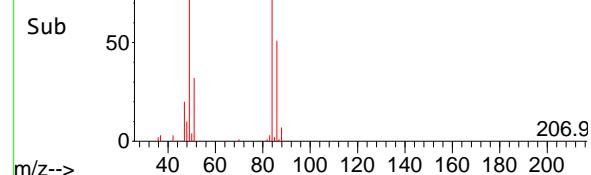
Abundance Scan 653 (5.795 min): VN086280.D\data.ms (-60)



Abundance Scan 565 (5.277 min): VN086280.D\data.ms



Abundance Scan 565 (5.277 min): VN086280.D\data.ms (-51)



#19

Methyl tert-butyl Ether

Concen: 20.332 ug/l

RT: 5.795 min Scan# 6

Delta R.T. 0.006 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 73 Resp: 191050

Ion Ratio Lower Upper

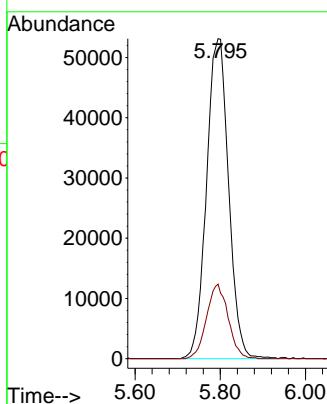
73 100

57 23.3 17.6 26.4

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#20

Methylene Chloride

Concen: 19.999 ug/l

RT: 5.277 min Scan# 565

Delta R.T. 0.006 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

Tgt Ion: 84 Resp: 58230

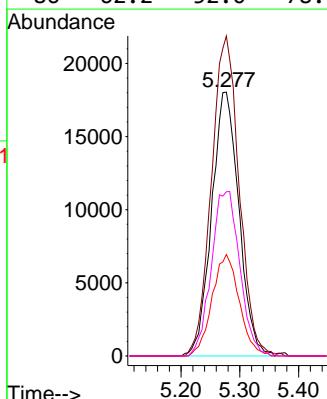
Ion Ratio Lower Upper

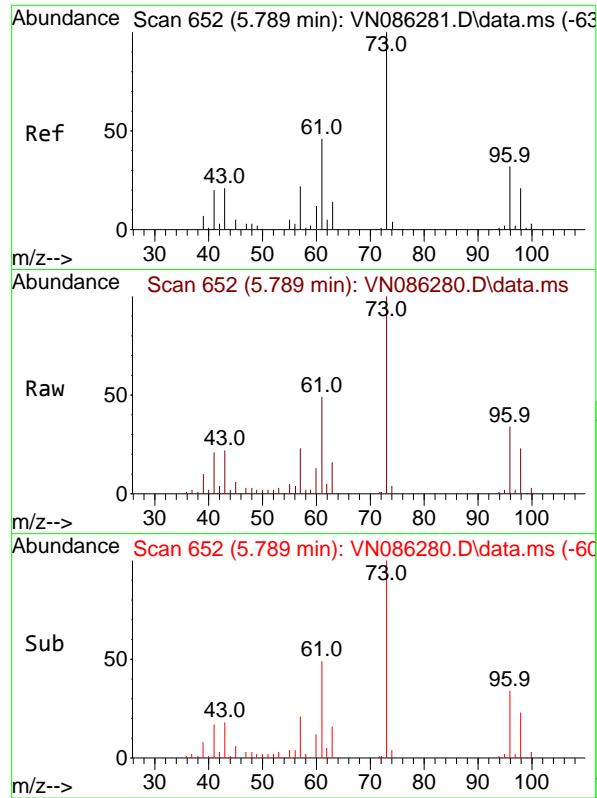
84 100

49 121.3 98.2 147.2

51 38.5 29.8 44.6

86 62.2 52.0 78.0



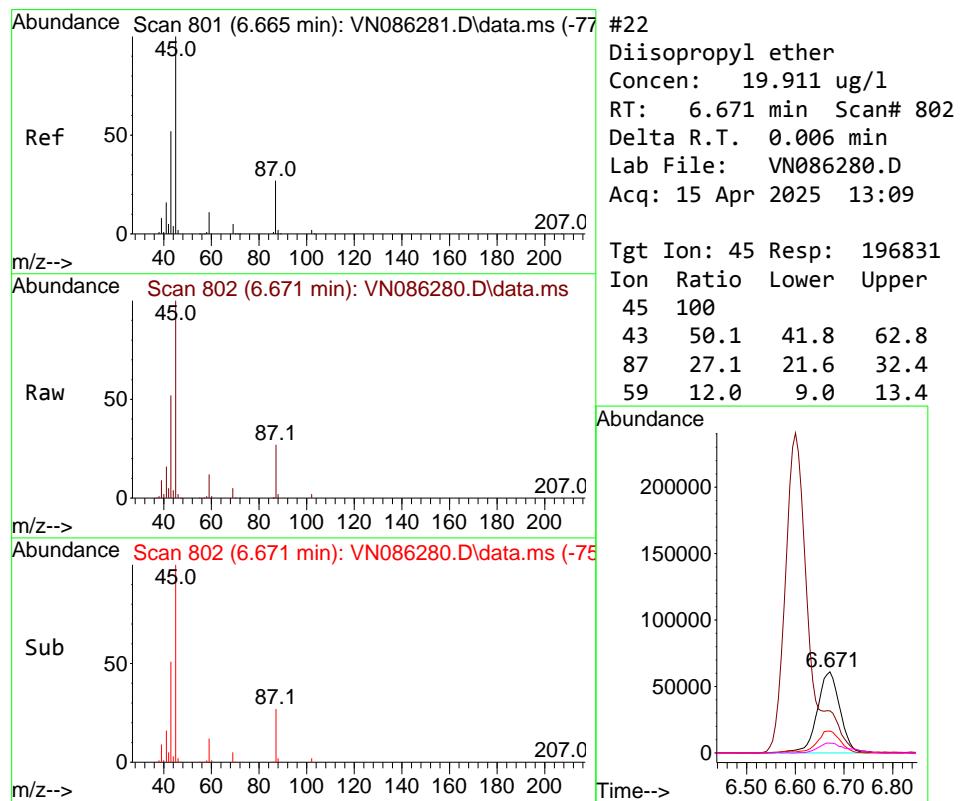
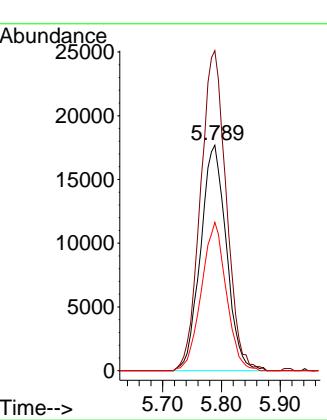


#21
 trans-1,2-Dichloroethene
 Concen: 20.165 ug/l
 RT: 5.789 min Scan# 6
 Delta R.T. 0.000 min
 Lab File: VN086280.D
 Acq: 15 Apr 2025 13:09

Instrument : MSVOA_N
 ClientSampleId : VSTDICC020

Manual Integrations
APPROVED

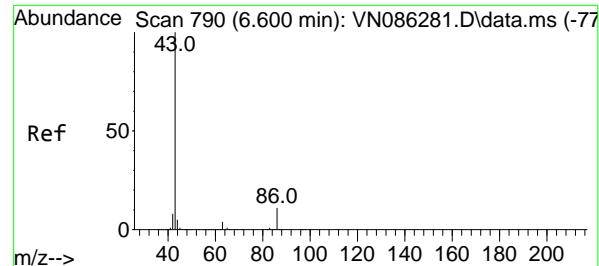
Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025



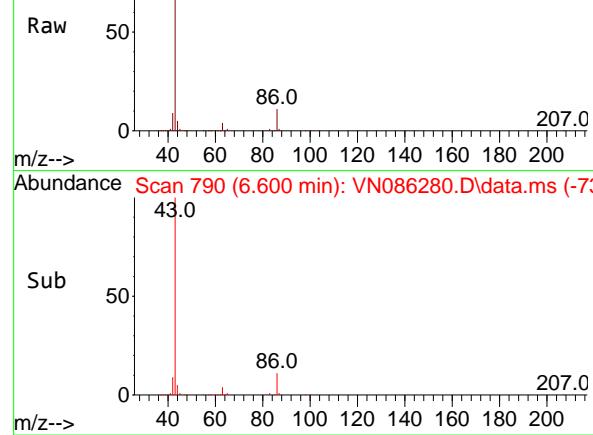
#22
 Diisopropyl ether
 Concen: 19.911 ug/l
 RT: 6.671 min Scan# 802
 Delta R.T. 0.006 min
 Lab File: VN086280.D
 Acq: 15 Apr 2025 13:09

Abundance

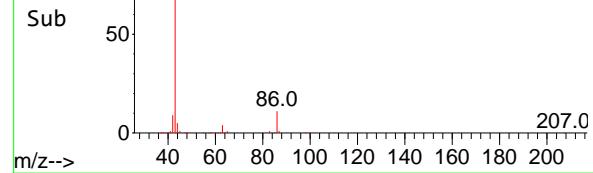
Time-->



Abundance Scan 790 (6.600 min): VN086280.D\data.ms



Abundance Scan 790 (6.600 min): VN086280.D\data.ms (-73)



#23

Vinyl Acetate

Concen: 103.278 ug/l m

RT: 6.600 min Scan# 7

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

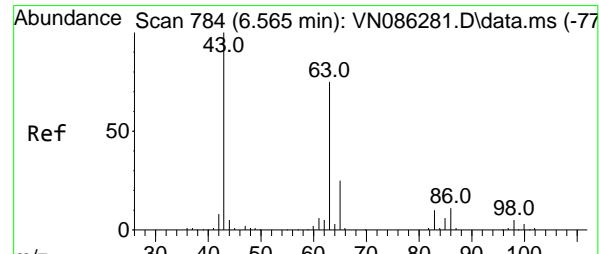
Instrument:

MSVOA_N

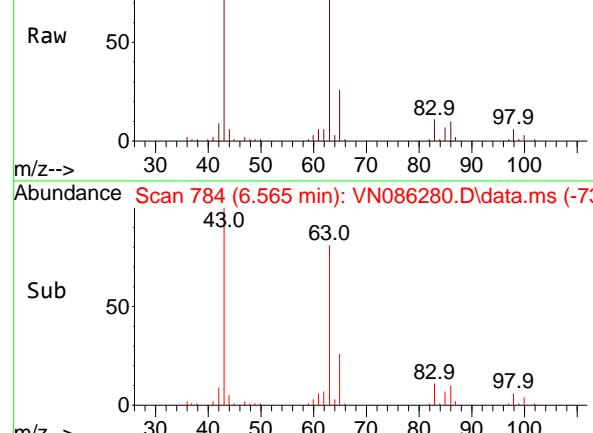
ClientSampleId :

VSTDICC020

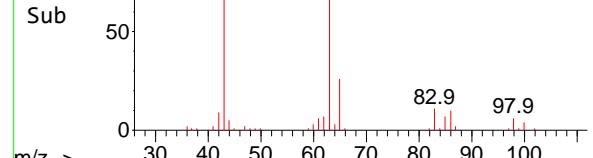
**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


Abundance Scan 784 (6.565 min): VN086280.D\data.ms



Abundance Scan 784 (6.565 min): VN086280.D\data.ms (-73)



#24

1,1-Dichloroethane

Concen: 20.087 ug/l

RT: 6.565 min Scan# 784

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

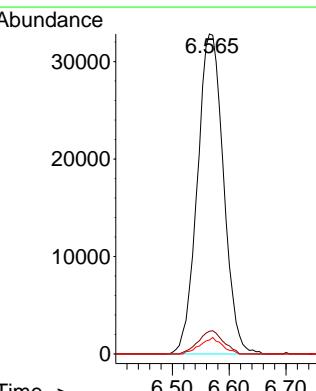
Tgt Ion: 63 Resp: 104777

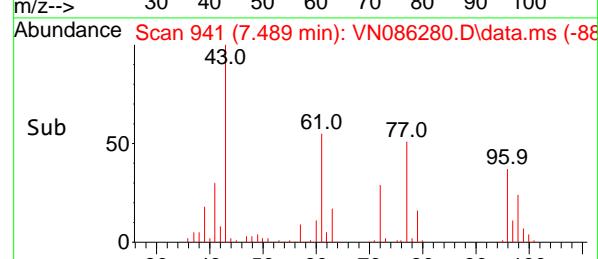
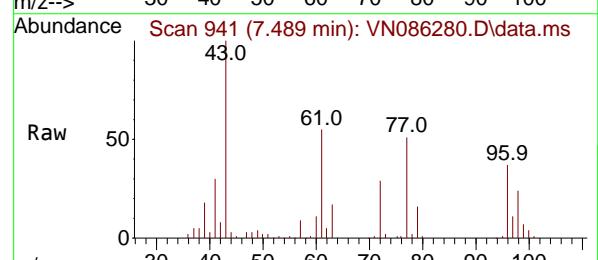
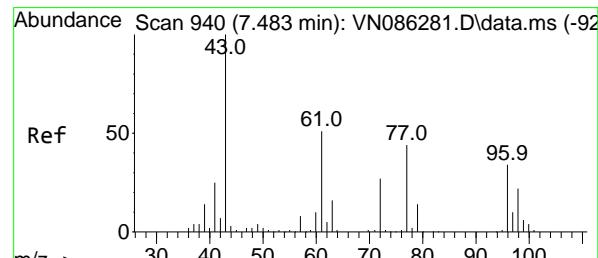
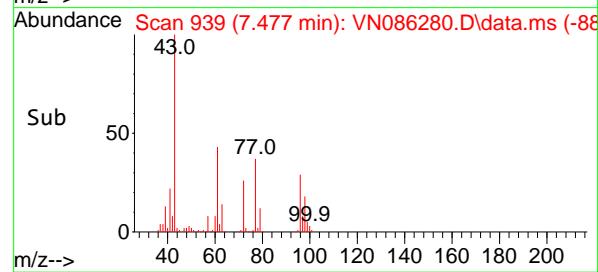
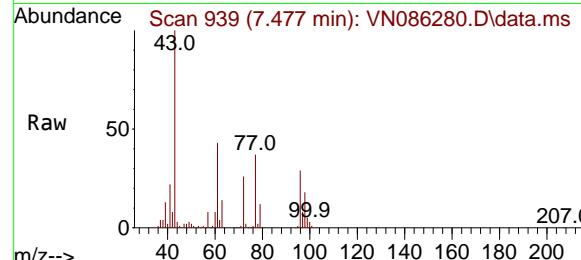
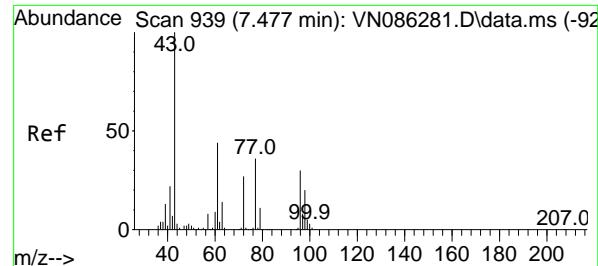
Ion Ratio Lower Upper

63 100

98 7.1 3.4 10.2

100 4.4 2.1 6.5





#25

2-Butanone

Concen: 103.191 ug/l

RT: 7.477 min Scan# 9

Instrument :

MSVOA_N

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

ClientSampleId : VSTDICC020

Tgt Ion: 43 Resp: 202298

Ion Ratio Lower Upper

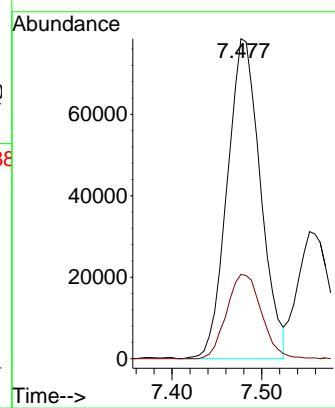
43 100

72 26.4 21.7 32.5

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#26

2,2-Dichloropropane

Concen: 20.159 ug/l

RT: 7.489 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN086280.D

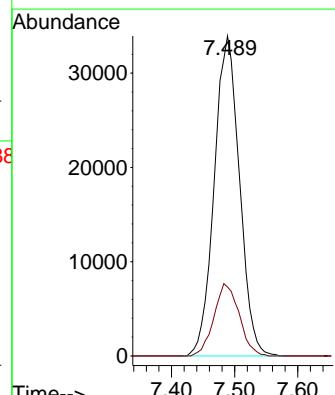
Acq: 15 Apr 2025 13:09

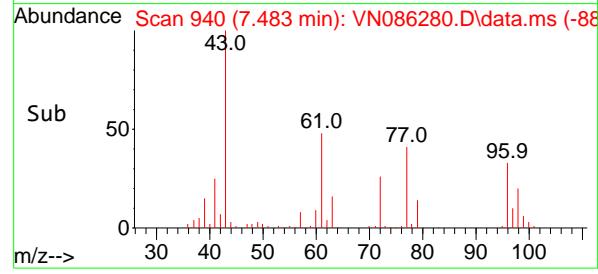
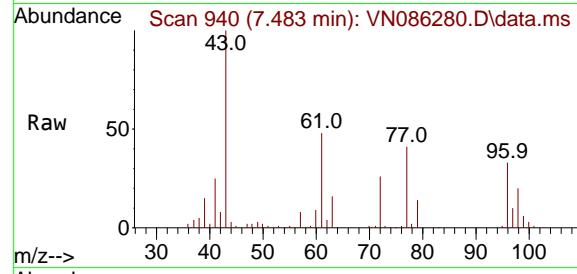
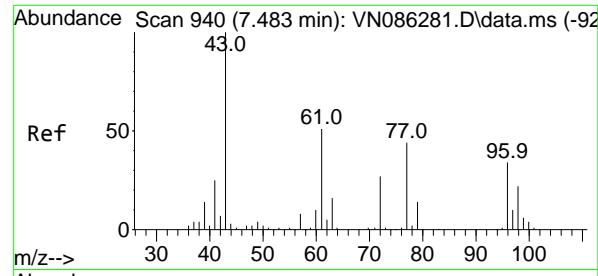
Tgt Ion: 77 Resp: 94147

Ion Ratio Lower Upper

77 100

97 22.6 11.2 33.5





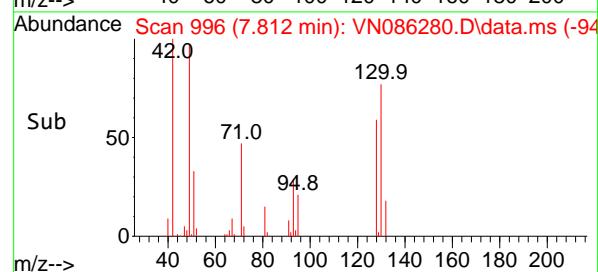
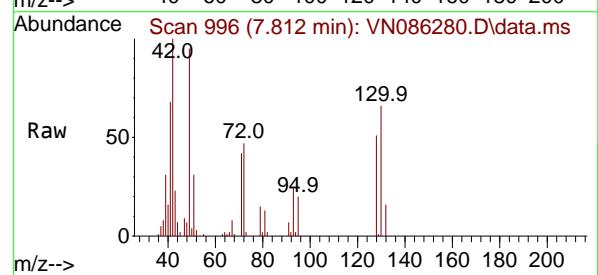
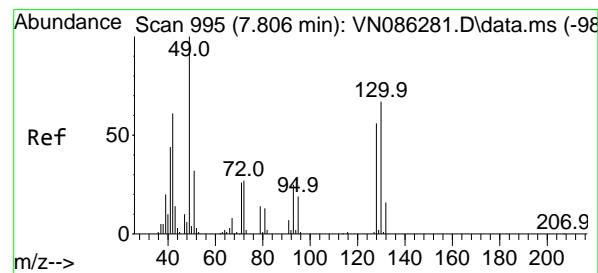
#27

cis-1,2-Dichloroethene
Concen: 20.001 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN086280.D
Acq: 15 Apr 2025 13:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

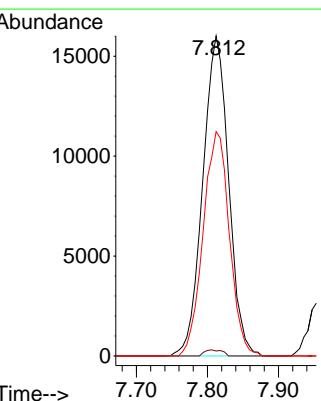
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

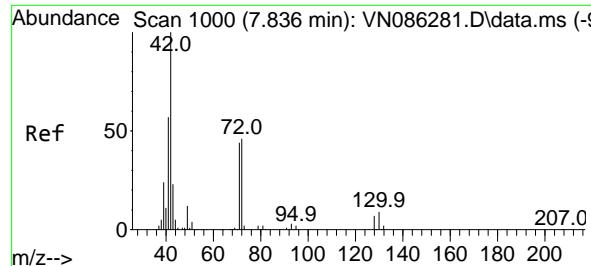


#28

Bromochloromethane
Concen: 18.263 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.006 min
Lab File: VN086280.D
Acq: 15 Apr 2025 13:09

Tgt Ion: 49 Resp: 40391
Ion Ratio Lower Upper
49 100
129 1.3 0.0 3.4
130 71.2 57.1 85.7





#29

Tetrahydrofuran

Concen: 104.008 ug/l

RT: 7.836 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086280.D

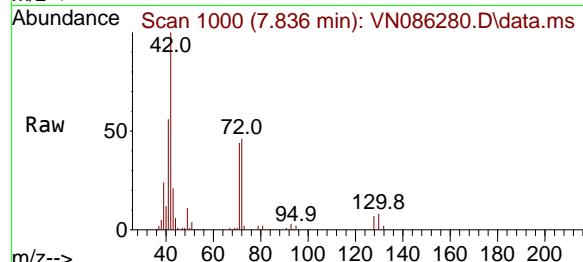
Acq: 15 Apr 2025 13:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020



Tgt Ion: 42 Resp: 136343

Ion Ratio Lower Upper

42 100

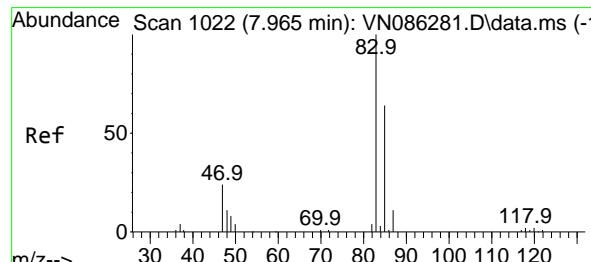
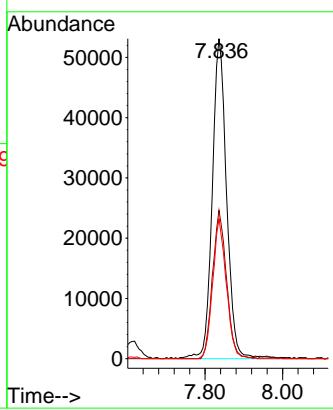
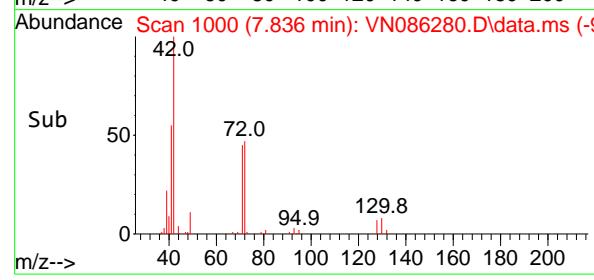
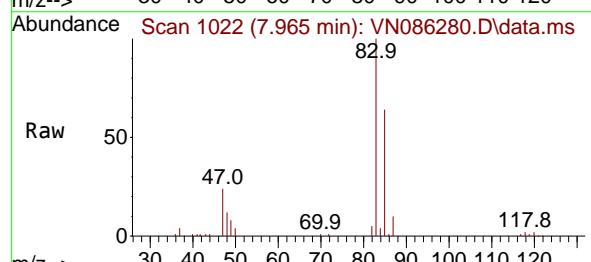
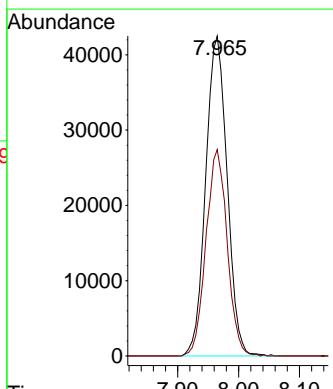
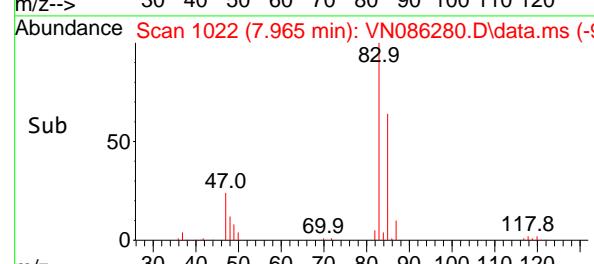
72 45.1 36.2 54.4

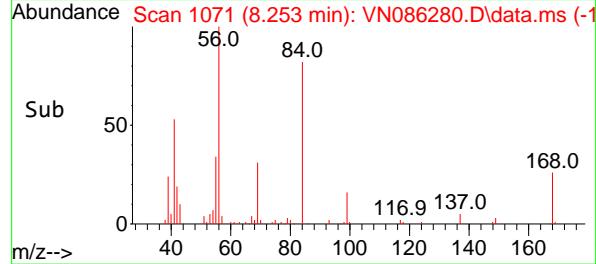
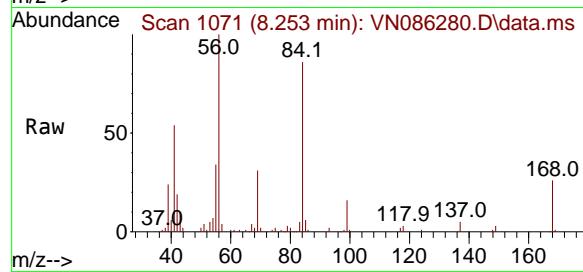
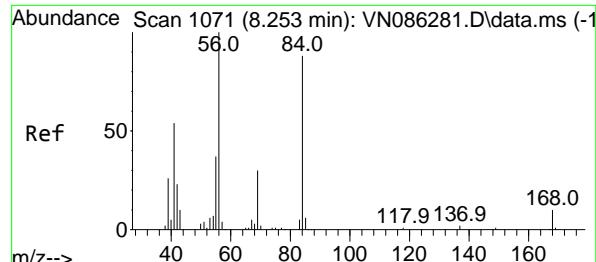
71 41.3 34.0 51.0

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025

#30
Chloroform
Concen: 20.274 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.000 min
Lab File: VN086280.D
Acq: 15 Apr 2025 13:09Tgt Ion: 83 Resp: 103881
Ion Ratio Lower Upper
83 100
85 64.5 51.5 77.3



#31

Cyclohexane

Concen: 19.895 ug/l

RT: 8.253 min Scan# 101540

Delta R.T. 0.000 min

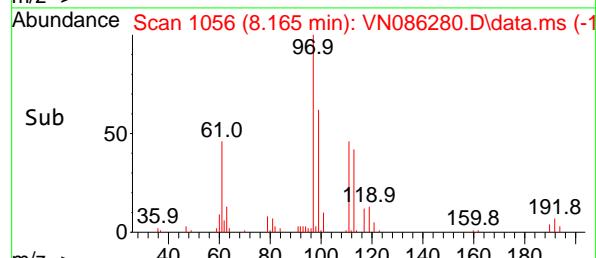
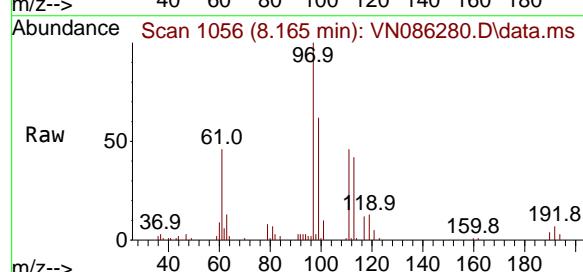
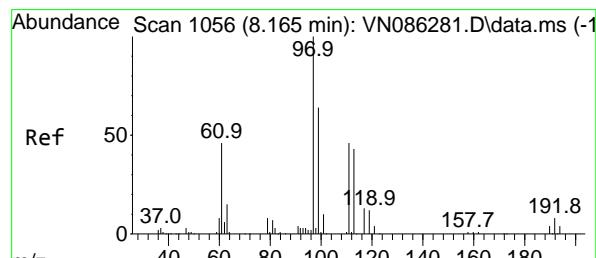
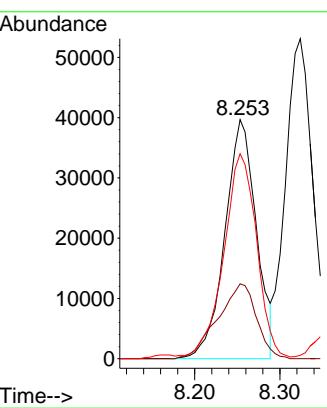
Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

Instrument : MSVOA_N

ClientSampleId : VSTDICC020

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#32

1,1,1-Trichloroethane

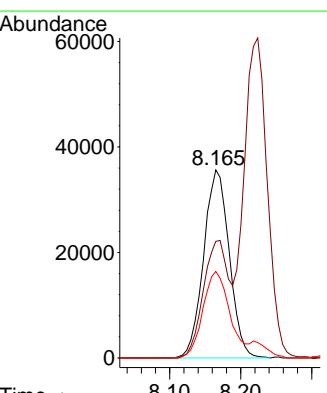
Concen: 20.344 ug/l

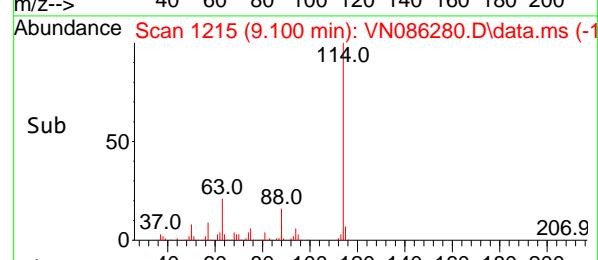
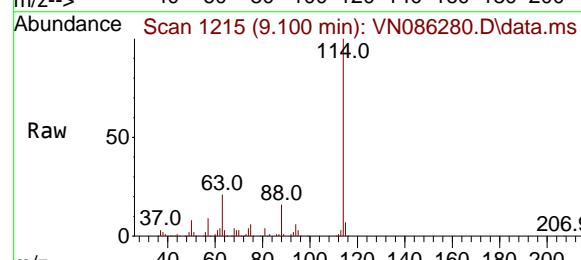
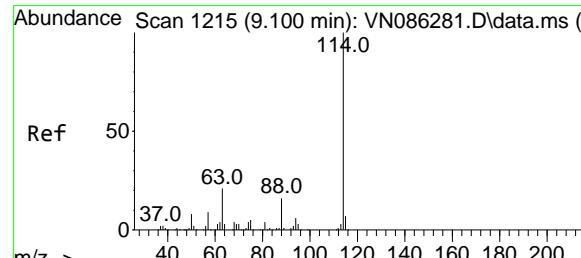
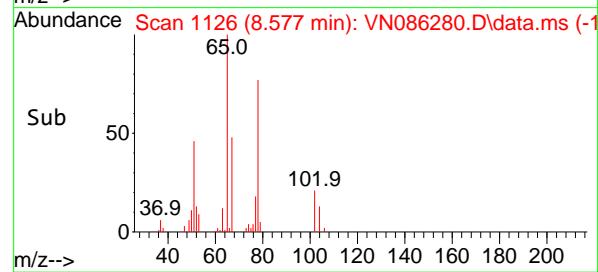
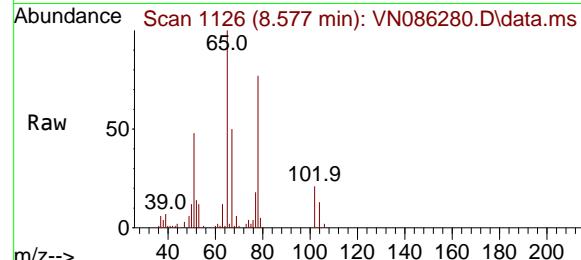
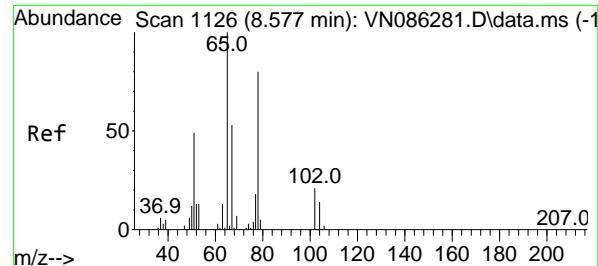
RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

 Tgt Ion: 97 Resp: 89173
 Ion Ratio Lower Upper
 97 100
 99 62.7 52.7 79.1
 61 48.7 39.5 59.3




#33

1,2-Dichloroethane-d4

Concen: 19.513 ug/l

RT: 8.577 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

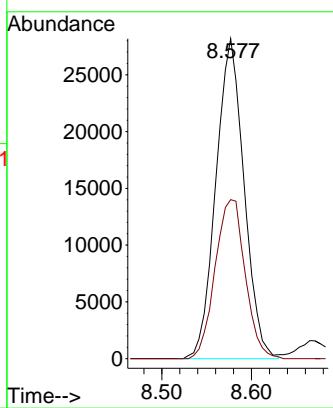
Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

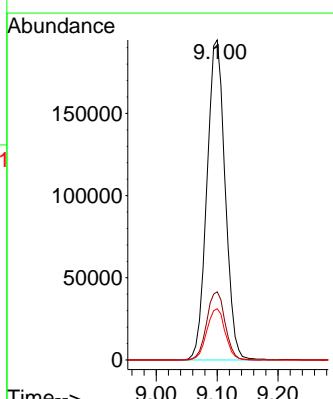
Tgt Ion:114 Resp: 404366

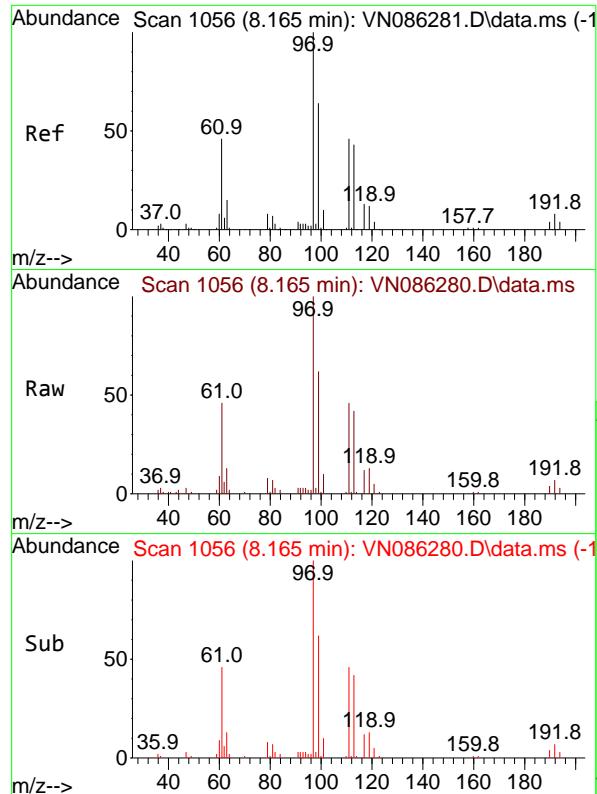
Ion Ratio Lower Upper

114 100

63 21.3 0.0 42.6

88 16.0 0.0 31.8



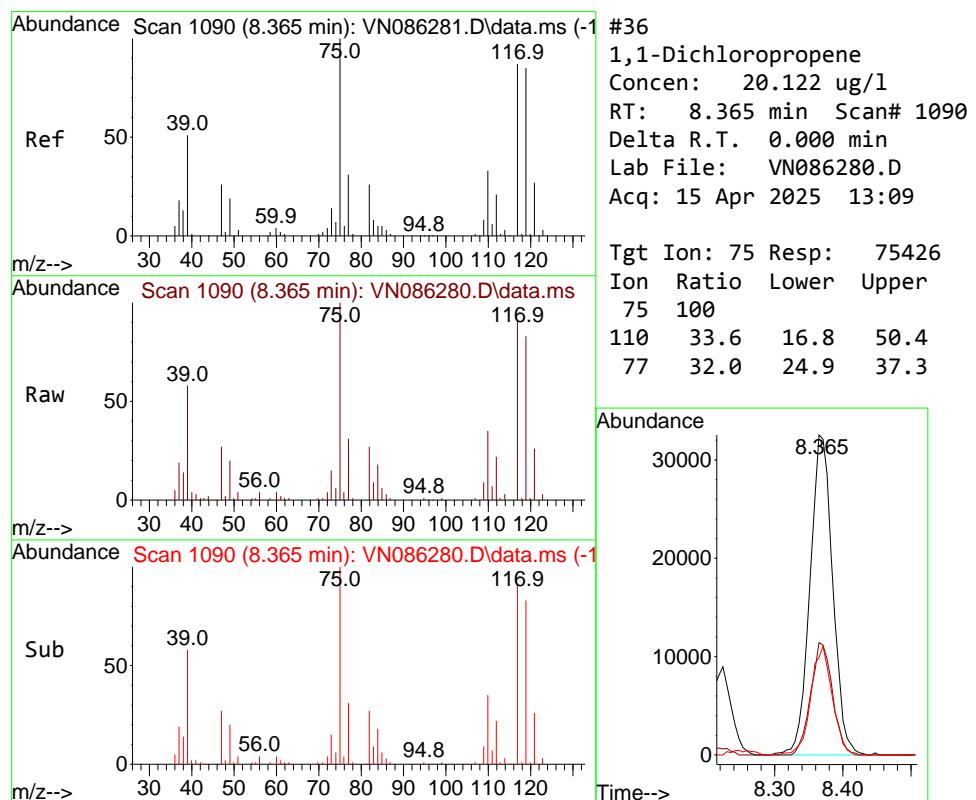
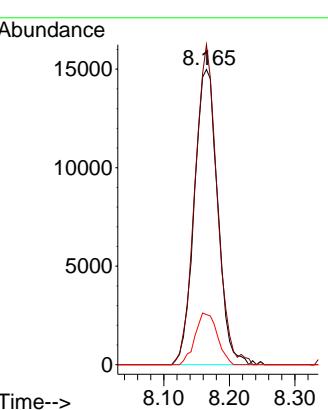


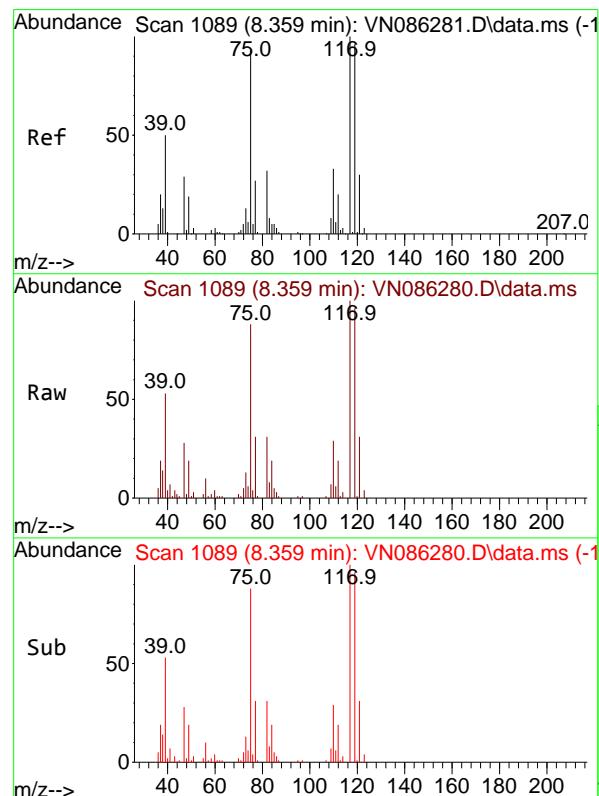
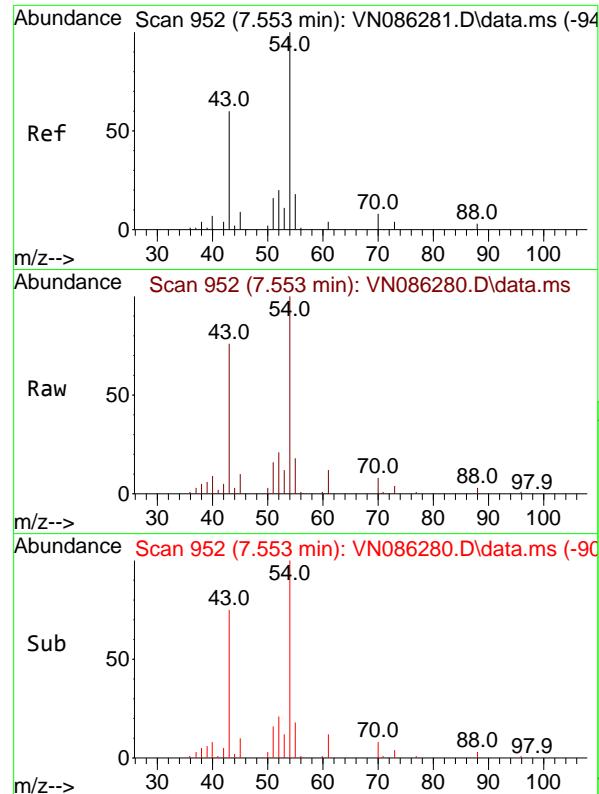
#35
 Dibromofluoromethane
 Concen: 19.819 ug/l
 RT: 8.165 min Scan# 1
 Delta R.T. 0.000 min
 Lab File: VN086280.D
 Acq: 15 Apr 2025 13:09

Instrument : MSVOA_N
 ClientSampleId : VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025





#37

Ethyl Acetate

Concen: 20.115 ug/l

RT: 7.553 min Scan# 9

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

Instrument:

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 43 Resp: 7938

Ion Ratio Lower Upper

43 100

61 13.7 11.1 16.7

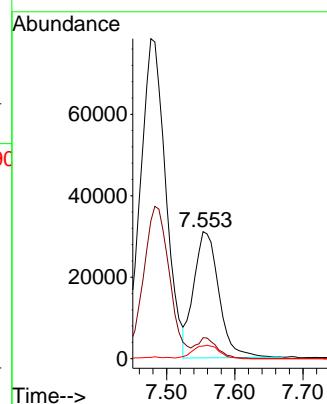
70 11.2 9.2 13.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#38

Carbon Tetrachloride

Concen: 20.367 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

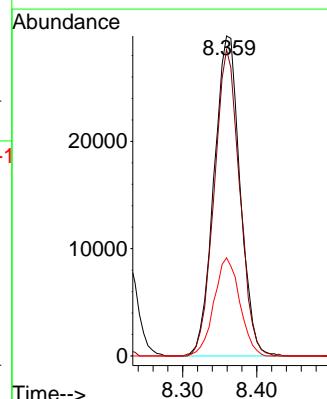
Tgt Ion:117 Resp: 72704

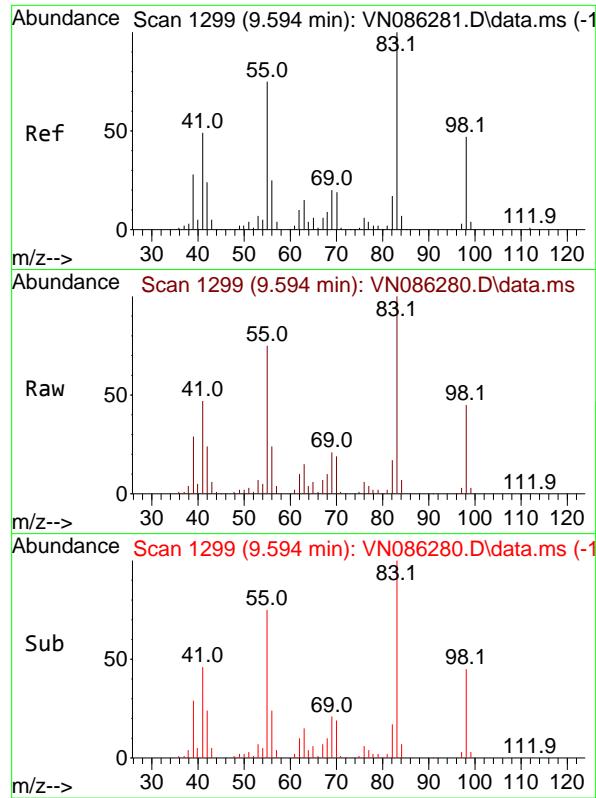
Ion Ratio Lower Upper

117 100

119 95.7 76.8 115.2

121 30.7 23.8 35.8





#39

Methylcyclohexane

Concen: 19.915 ug/l

RT: 9.594 min Scan# 1

Delta R.T. 0.000 min

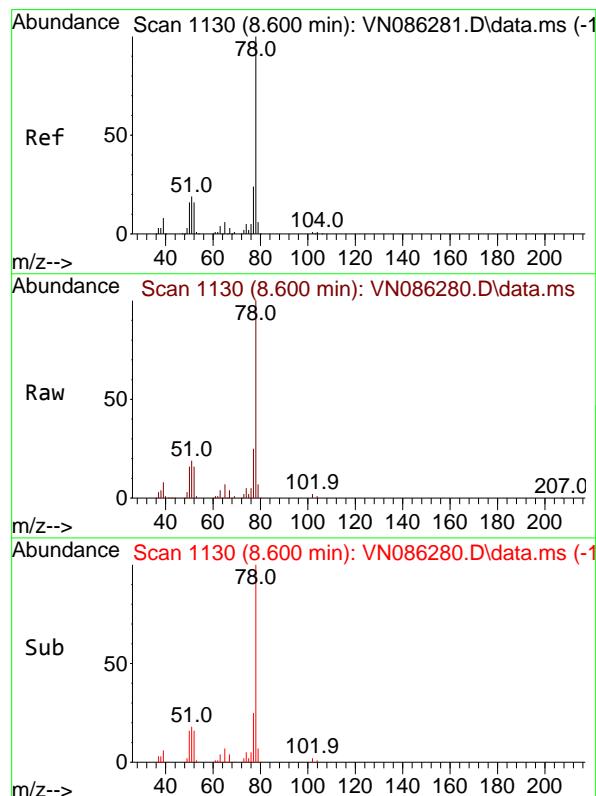
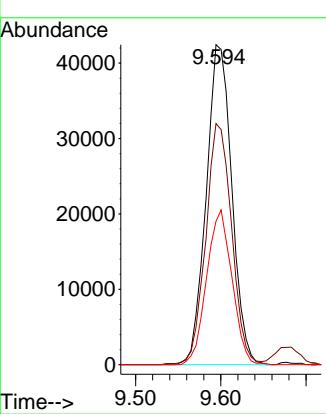
Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

Instrument : MSVOA_N

ClientSampleId : VSTDICC020

**Manual Integrations
APPROVED**

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 Supervised By :Semsettin Yesilyurt 04/16/2025


#40

Benzene

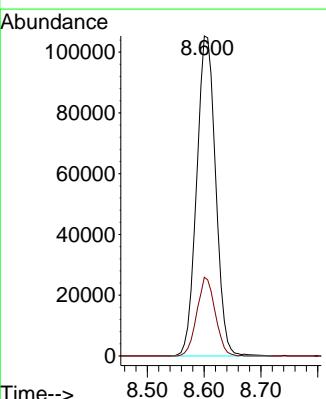
Concen: 20.310 ug/l

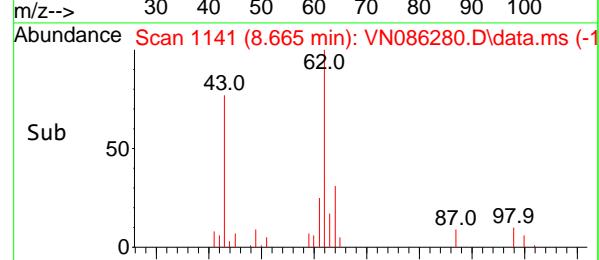
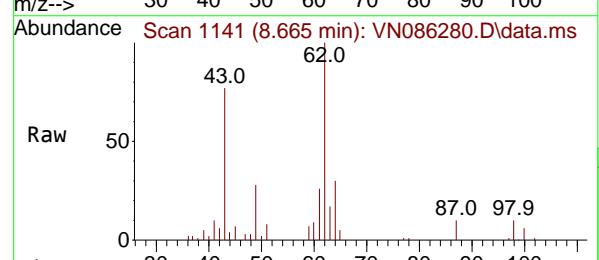
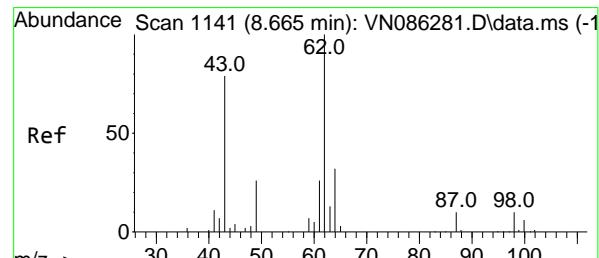
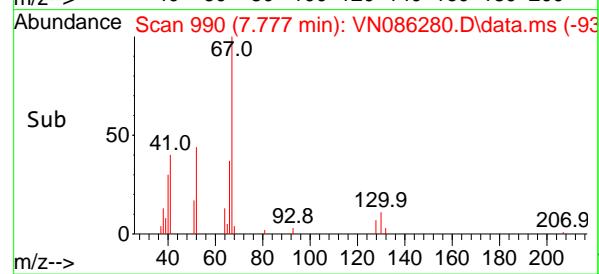
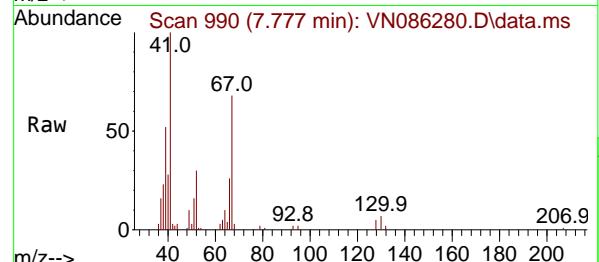
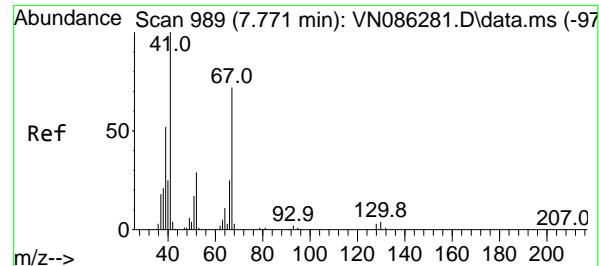
RT: 8.600 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

 Tgt Ion: 78 Resp: 243918
 Ion Ratio Lower Upper
 78 100
 77 24.6 19.4 29.2




#41

Methacrylonitrile

Concen: 20.007 ug/l

RT: 7.777 min Scan# 990

Delta R.T. 0.006 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

Instrument :

MSVOA_N

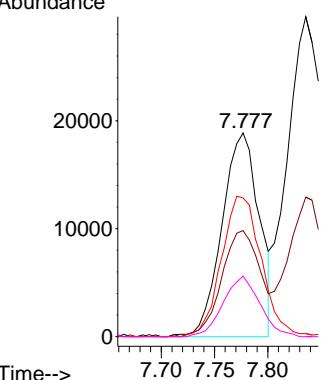
ClientSampleId :

VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

Abundance



#42

1,2-Dichloroethane

Concen: 20.348 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. -0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

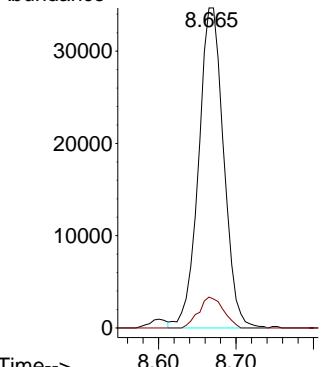
Tgt Ion: 62 Resp: 77932

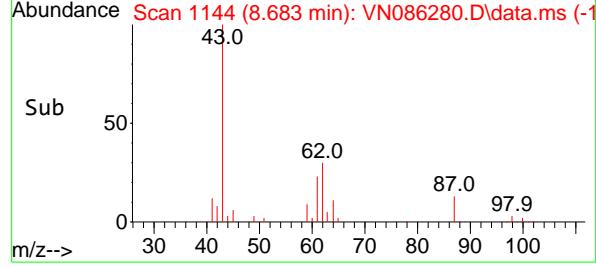
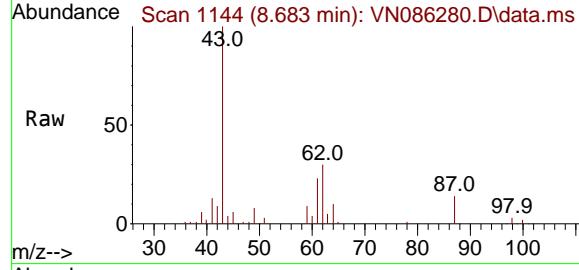
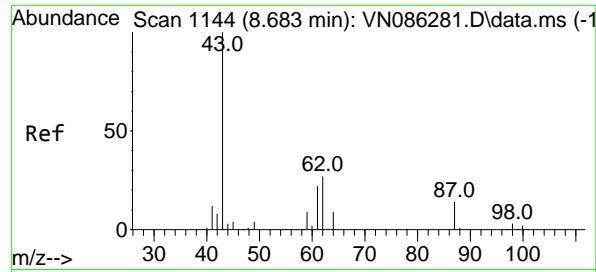
Ion Ratio Lower Upper

62 100

98 9.5 0.0 19.2

Abundance





#43

Isopropyl Acetate

Concen: 20.921 ug/l

RT: 8.683 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

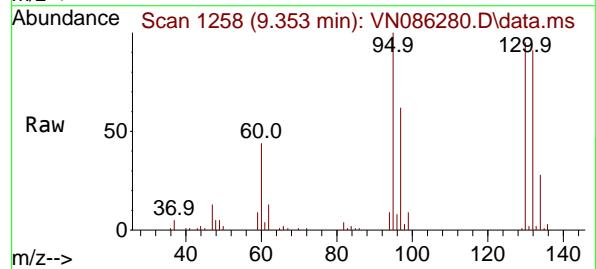
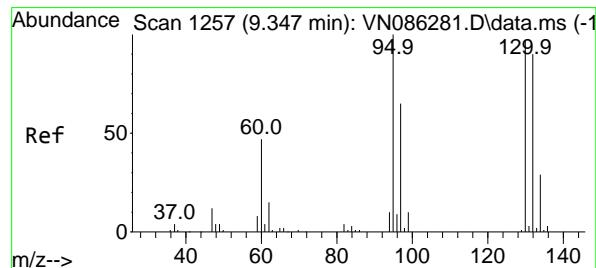
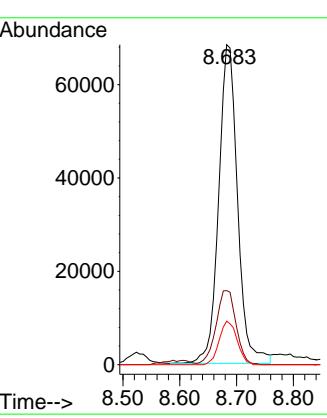
Instrument:

MSVOA_N

ClientSampleId :

VSTDICC020

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#44

Trichloroethene

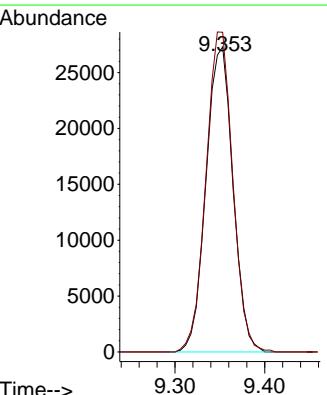
Concen: 19.998 ug/l

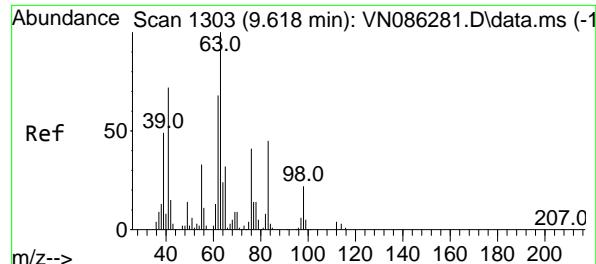
RT: 9.353 min Scan# 1258

Delta R.T. 0.006 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

 Tgt Ion:130 Resp: 56926
 Ion Ratio Lower Upper
 130 100
 95 104.8 0.0 207.2




#45

1,2-Dichloropropane

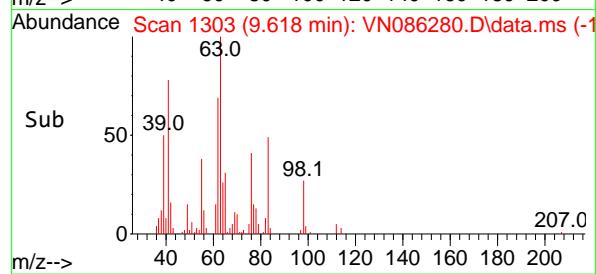
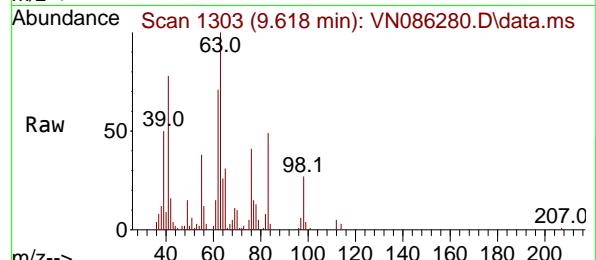
Concen: 20.273 ug/l

RT: 9.618 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09



Tgt Ion: 63 Resp: 59595

Ion Ratio Lower Upper

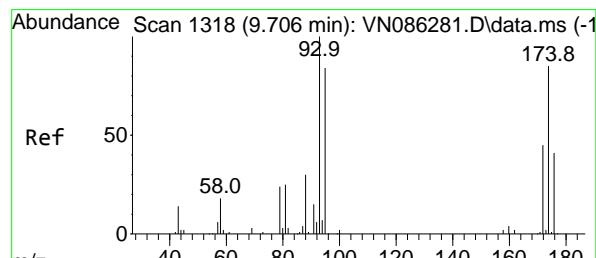
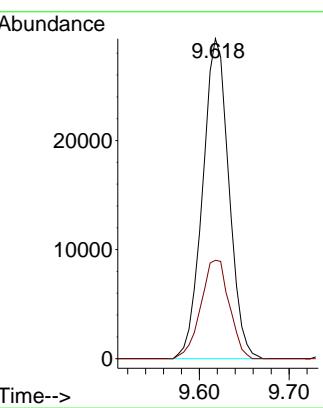
63 100

65 30.8 25.4 38.2

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#46

Dibromomethane

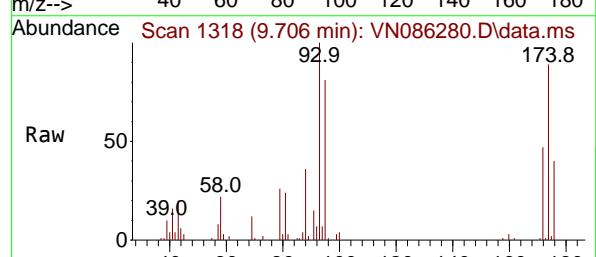
Concen: 20.608 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09



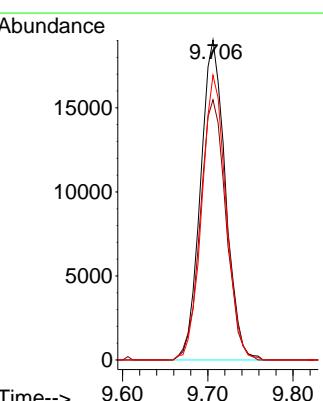
Tgt Ion: 93 Resp: 38601

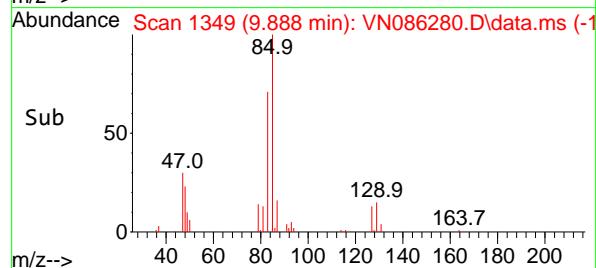
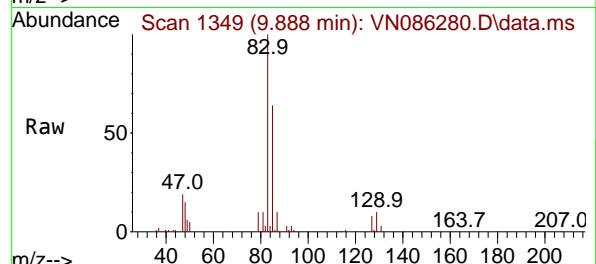
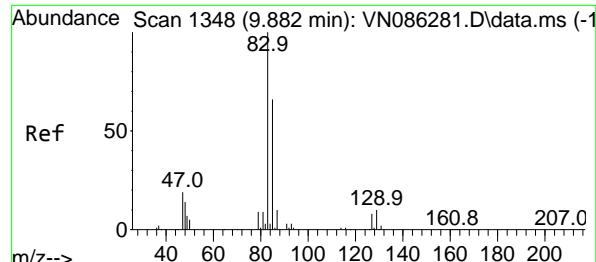
Ion Ratio Lower Upper

93 100

95 84.0 66.2 99.4

174 86.8 67.8 101.6





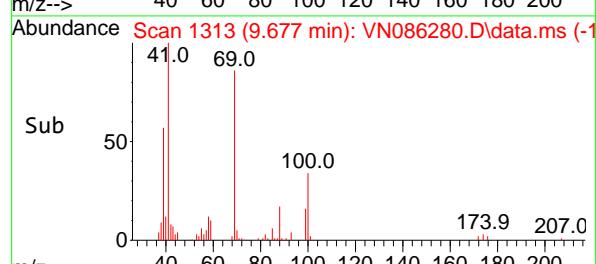
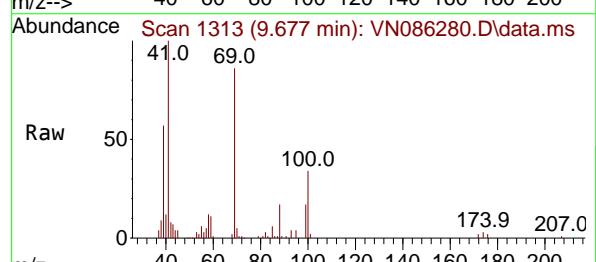
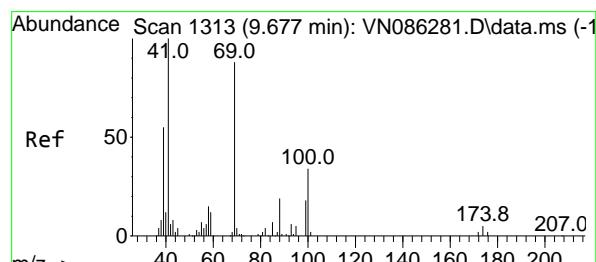
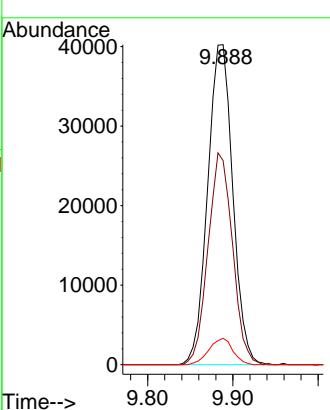
#47

Bromodichloromethane
Concen: 20.397 ug/l
RT: 9.888 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN086280.D
Acq: 15 Apr 2025 13:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

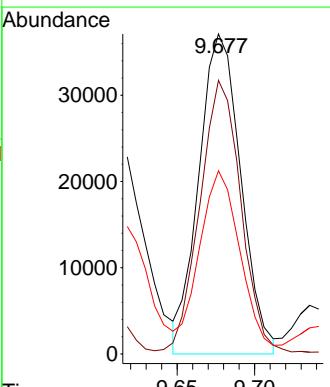
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

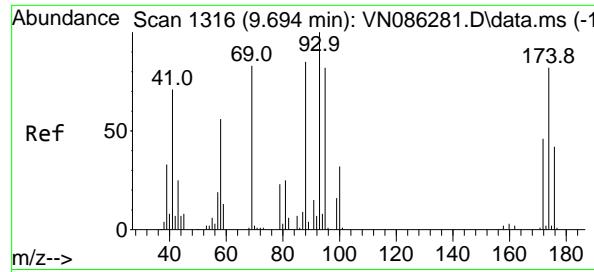


#48

Methyl methacrylate
Concen: 20.195 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. 0.000 min
Lab File: VN086280.D
Acq: 15 Apr 2025 13:09

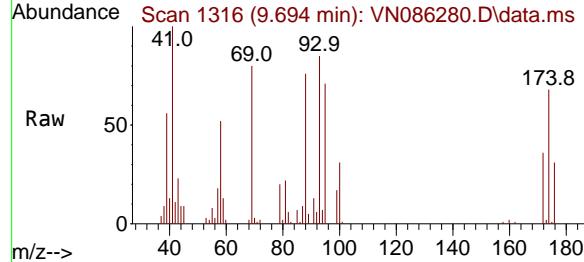
Tgt Ion: 41 Resp: 69986
Ion Ratio Lower Upper
41 100
69 84.6 68.2 102.2
39 56.1 45.2 67.8





#49
1,4-Dioxane
Concen: 413.277 ug/l
RT: 9.694 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086280.D
Acq: 15 Apr 2025 13:09

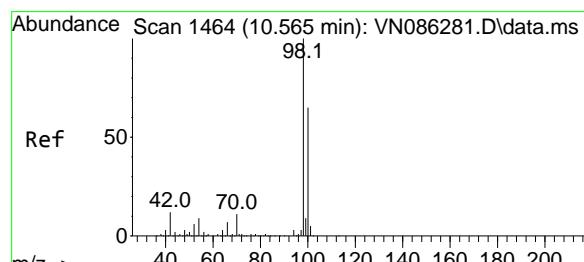
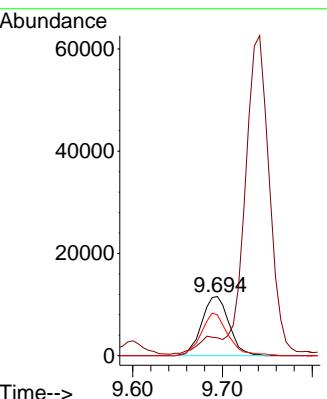
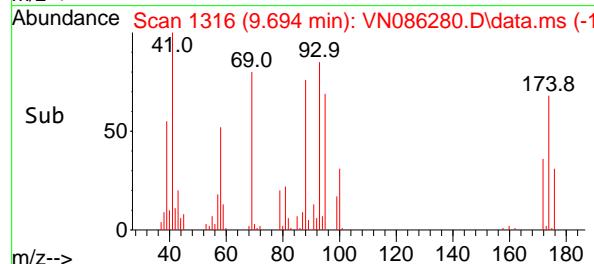
Instrument : MSVOA_N
ClientSampleId : VSTDICC020



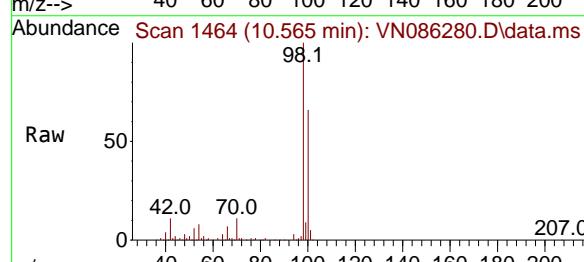
Tgt Ion: 88 Resp: 24361
Ion Ratio Lower Upper
88 100
43 27.3 23.8 35.8
58 71.1 57.4 86.2

Manual Integrations APPROVED

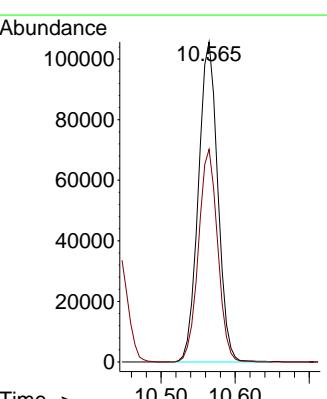
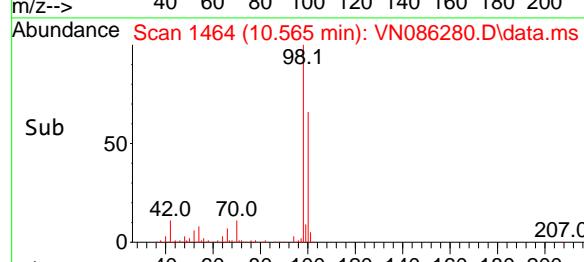
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

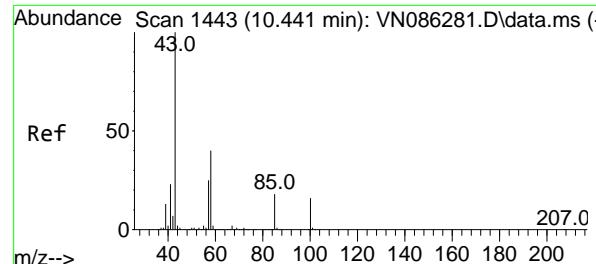


#50
Toluene-d8
Concen: 19.112 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN086280.D
Acq: 15 Apr 2025 13:09

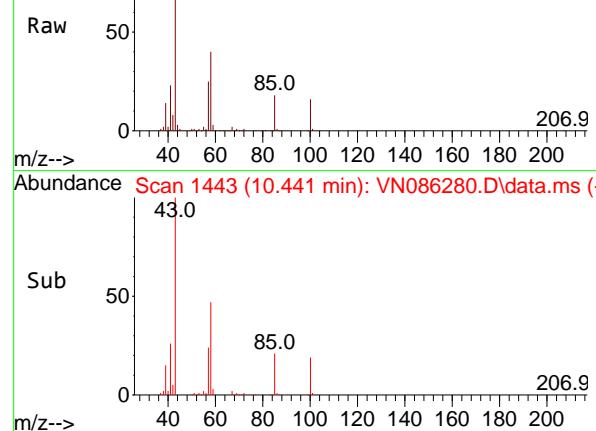


Tgt Ion: 98 Resp: 191691
Ion Ratio Lower Upper
98 100
100 65.7 52.5 78.7

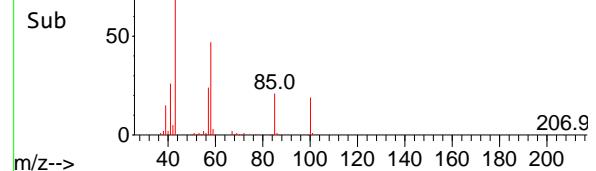




Abundance Scan 1443 (10.441 min): VN086280.D\data.ms (-)



Abundance Scan 1443 (10.441 min): VN086280.D\data.ms (-)



#51

4-Methyl-2-Pentanone

Concen: 104.297 ug/l

RT: 10.441 min Scan# 1443

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 43 Resp: 42147:

Ion Ratio Lower Upper

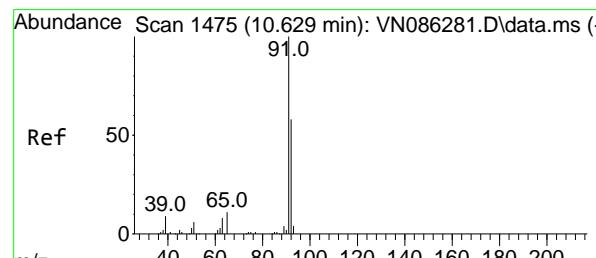
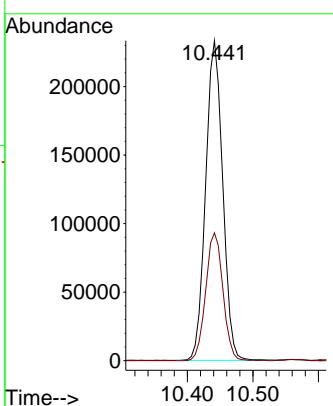
43 100

58 40.5 32.2 48.4

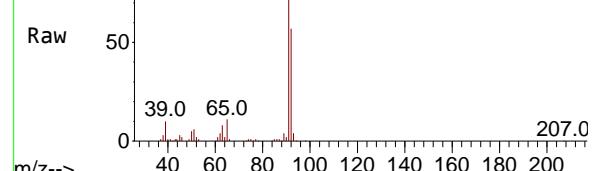
Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/16/2025

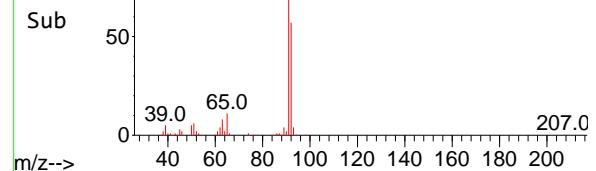
Supervised By :Semsettin Yesilyurt 04/16/2025



Abundance Scan 1475 (10.630 min): VN086280.D\data.ms (-)



Abundance Scan 1475 (10.630 min): VN086280.D\data.ms (-)



#52

Toluene

Concen: 20.317 ug/l

RT: 10.630 min Scan# 1475

Delta R.T. 0.000 min

Lab File: VN086280.D

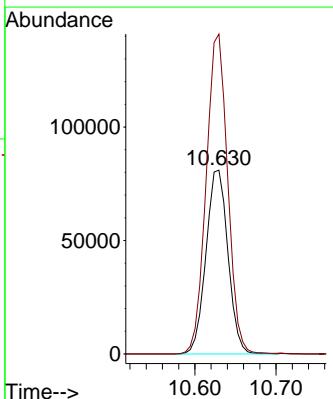
Acq: 15 Apr 2025 13:09

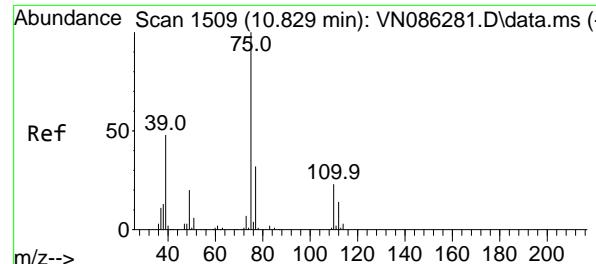
Tgt Ion: 92 Resp: 152248

Ion Ratio Lower Upper

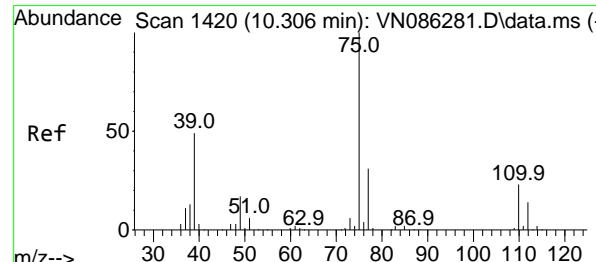
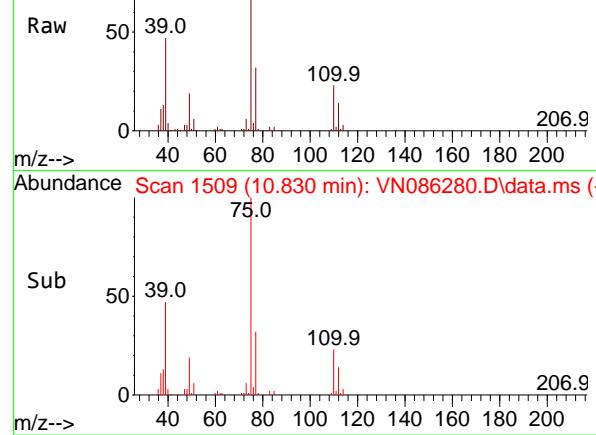
92 100

91 170.4 137.3 205.9

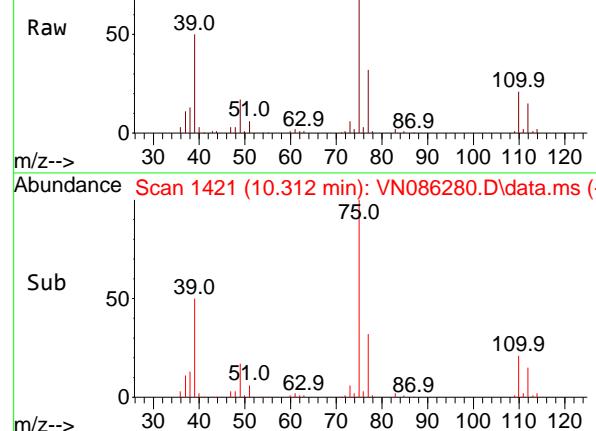




Abundance Scan 1509 (10.830 min): VN086280.D\data.ms (-)



Abundance Scan 1421 (10.312 min): VN086280.D\data.ms (-)



#53

t-1,3-Dichloropropene

Concen: 20.470 ug/l

RT: 10.830 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

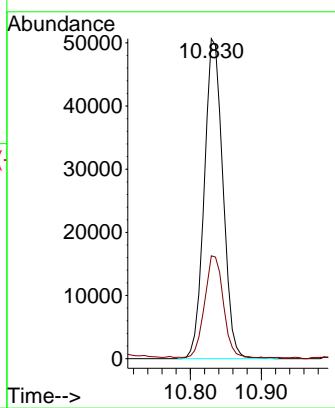
Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#54

cis-1,3-Dichloropropene

Concen: 20.245 ug/l

RT: 10.312 min Scan# 1421

Delta R.T. 0.006 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

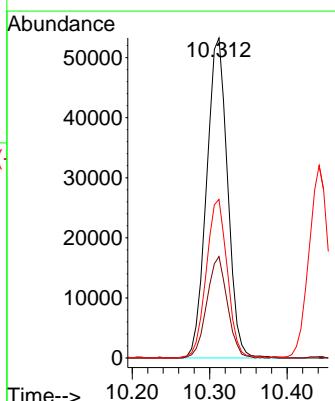
Tgt Ion: 75 Resp: 100415

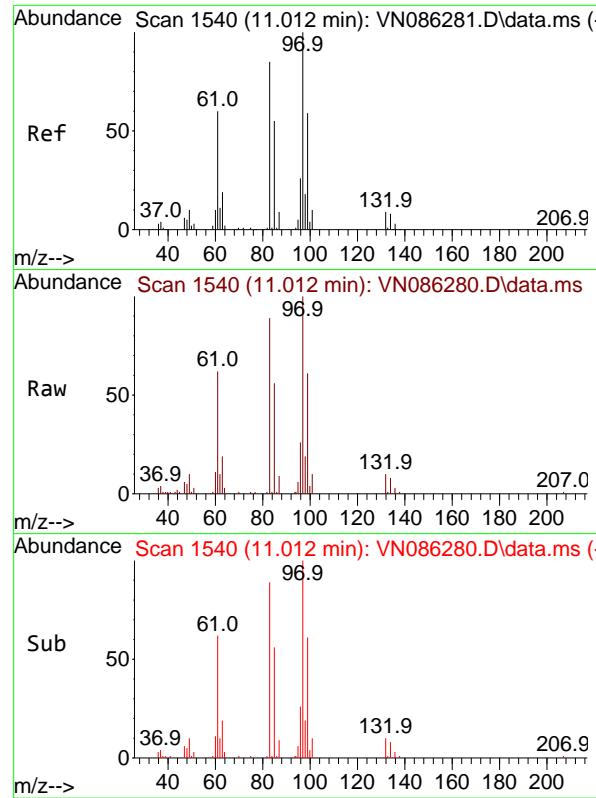
Ion Ratio Lower Upper

75 100

77 31.7 25.2 37.8

39 49.5 39.3 58.9



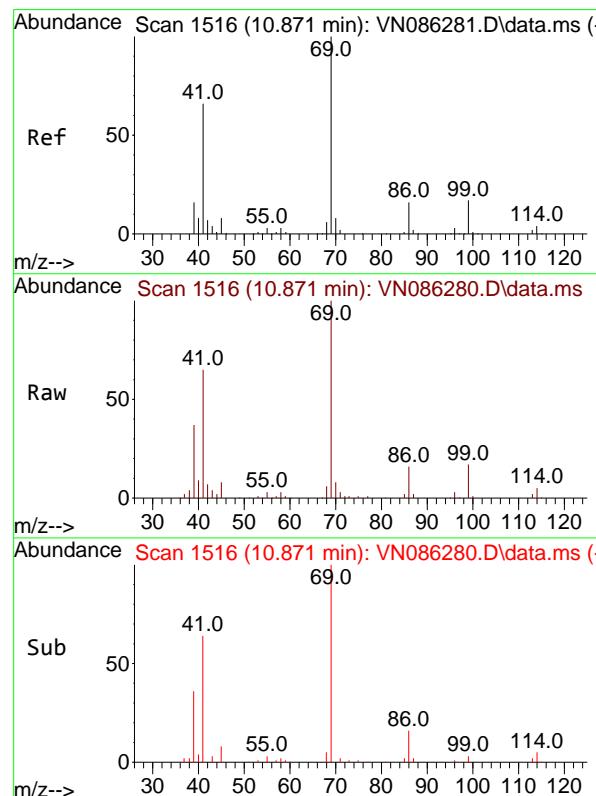
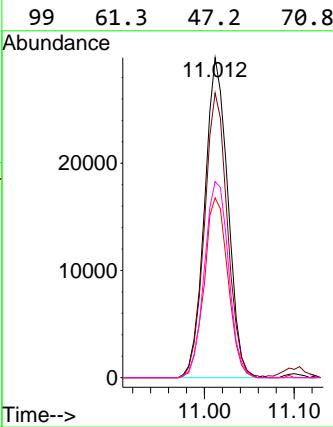


#55
1,1,2-Trichloroethane
Concen: 19.891 ug/l
RT: 11.012 min Scan# 1
Instrument : MSVOA_N
Delta R.T. 0.000 min
Lab File: VN086280.D
Acq: 15 Apr 2025 13:09

ClientSampleId : VSTDICC020

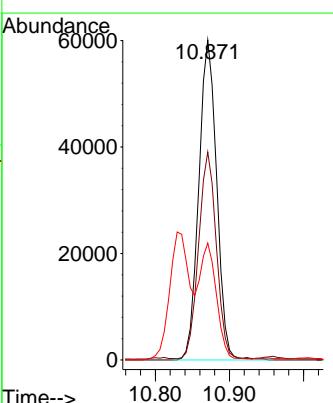
Manual Integrations APPROVED

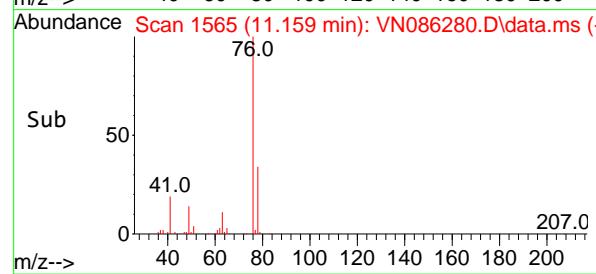
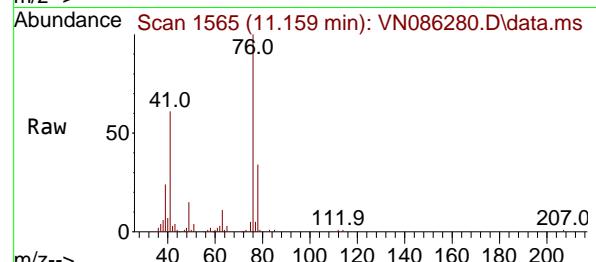
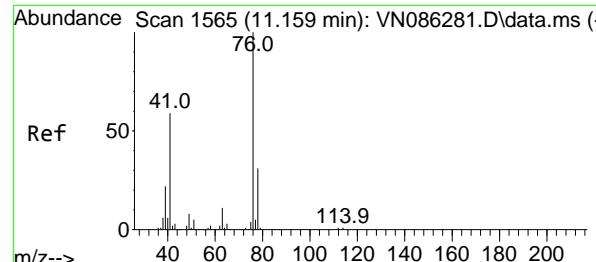
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#56
Ethyl methacrylate
Concen: 20.321 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VN086280.D
Acq: 15 Apr 2025 13:09

Tgt Ion: 69 Resp: 100712
Ion Ratio Lower Upper
69 100
41 63.7 51.7 77.5
39 33.6 26.3 39.5





#57

1,3-Dichloropropane

Concen: 20.353 ug/l

RT: 11.159 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

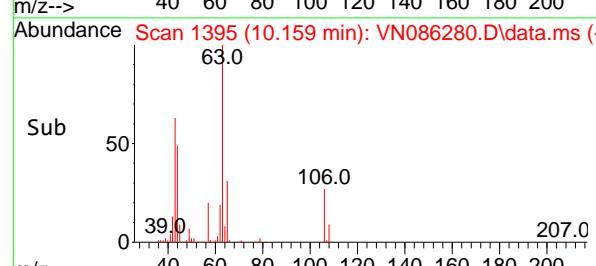
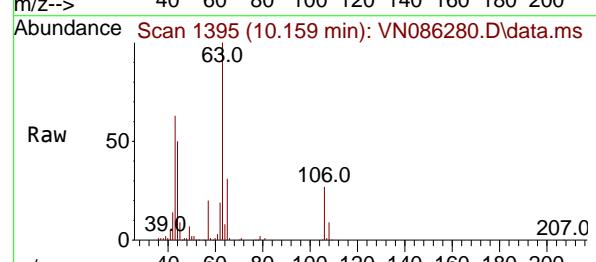
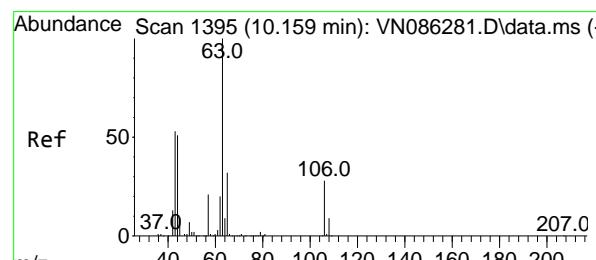
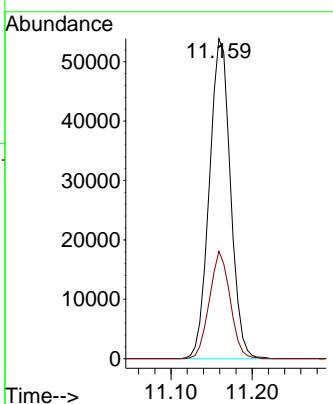
Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#58

2-Chloroethyl Vinyl ether

Concen: 94.702 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. 0.000 min

Lab File: VN086280.D

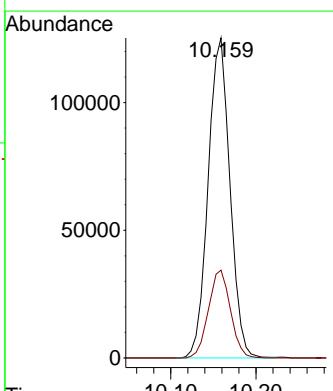
Acq: 15 Apr 2025 13:09

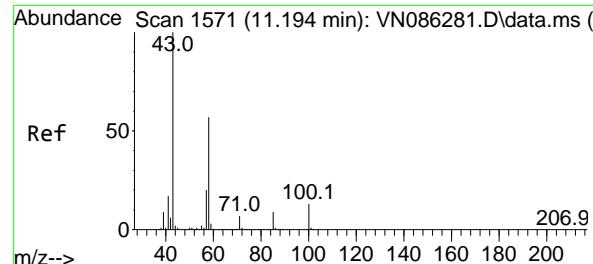
Tgt Ion: 63 Resp: 222766

Ion Ratio Lower Upper

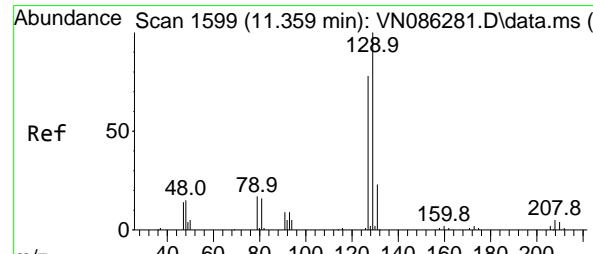
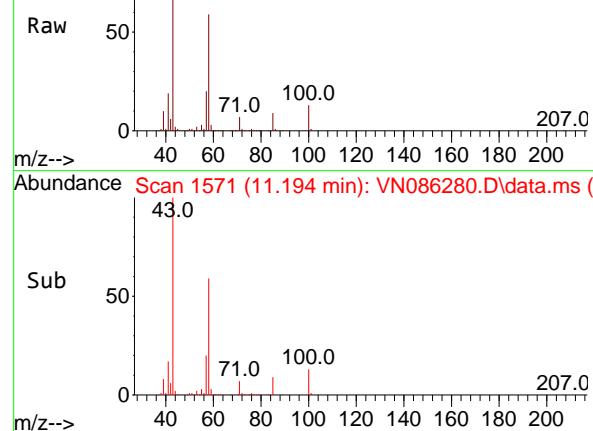
63 100

106 27.6 22.2 33.2

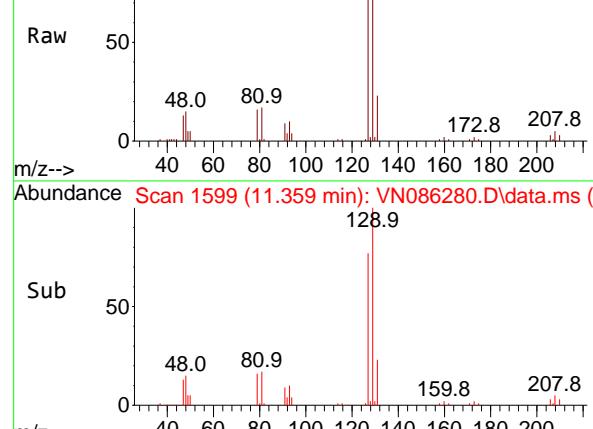




Abundance Scan 1571 (11.194 min): VN086280.D\data.ms



Abundance Scan 1599 (11.359 min): VN086280.D\data.ms



#59

2-Hexanone

Concen: 103.408 ug/l

RT: 11.194 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

Instrument:

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 43 Resp: 309954

Ion Ratio Lower Upper

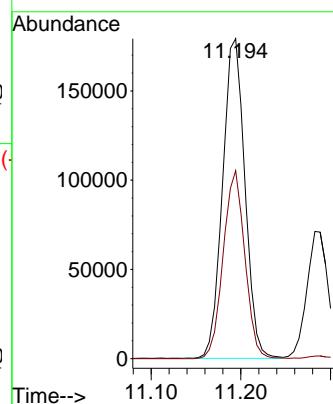
43 100

58 56.9 28.3 85.0

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#60

Dibromochloromethane

Concen: 20.467 ug/l

RT: 11.359 min Scan# 1599

Delta R.T. 0.000 min

Lab File: VN086280.D

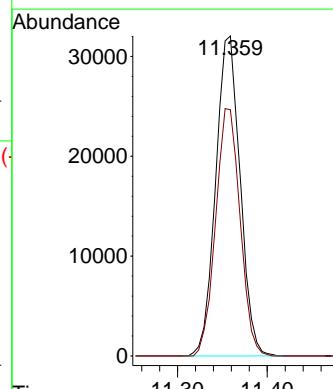
Acq: 15 Apr 2025 13:09

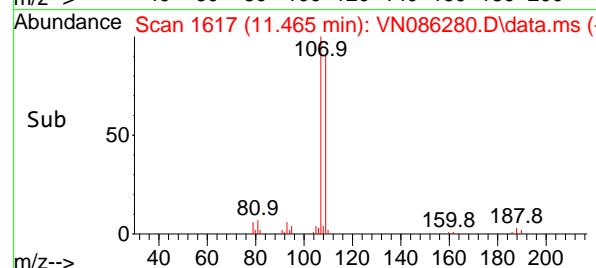
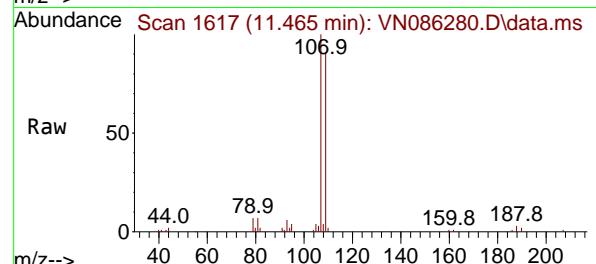
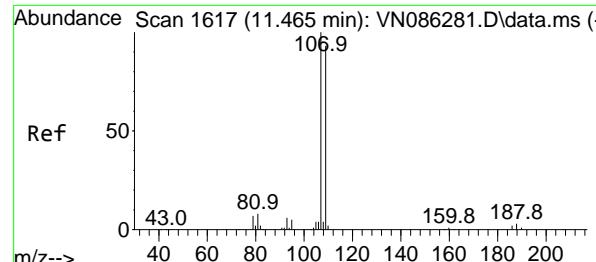
Tgt Ion:129 Resp: 60596

Ion Ratio Lower Upper

129 100

127 77.3 38.7 116.1





#61

1,2-Dibromoethane

Concen: 20.834 ug/l

RT: 11.465 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

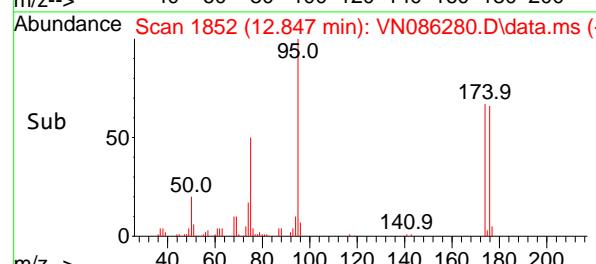
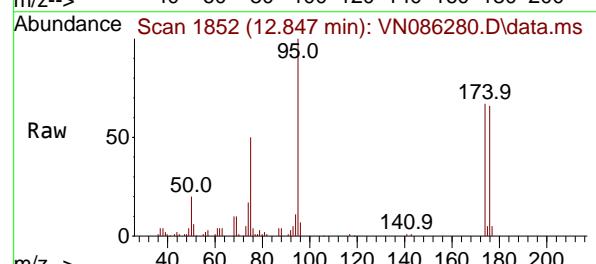
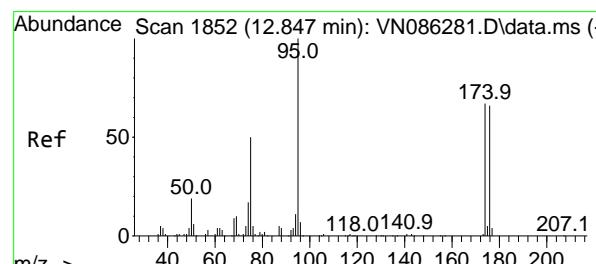
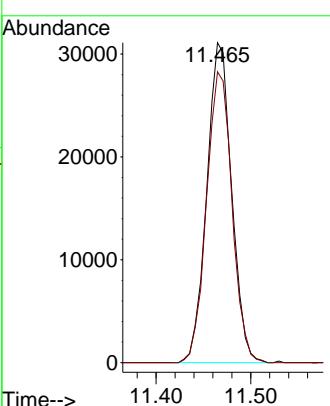
Instrument:

MSVOA_N

ClientSampleId :

VSTDICC020

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#62

4-Bromofluorobenzene

Concen: 18.596 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

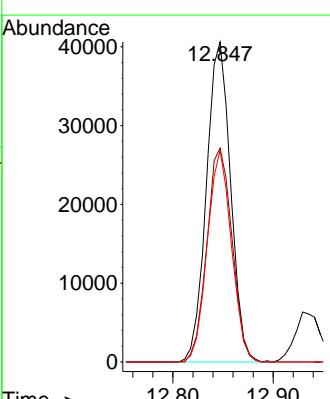
Tgt Ion: 95 Resp: 68030

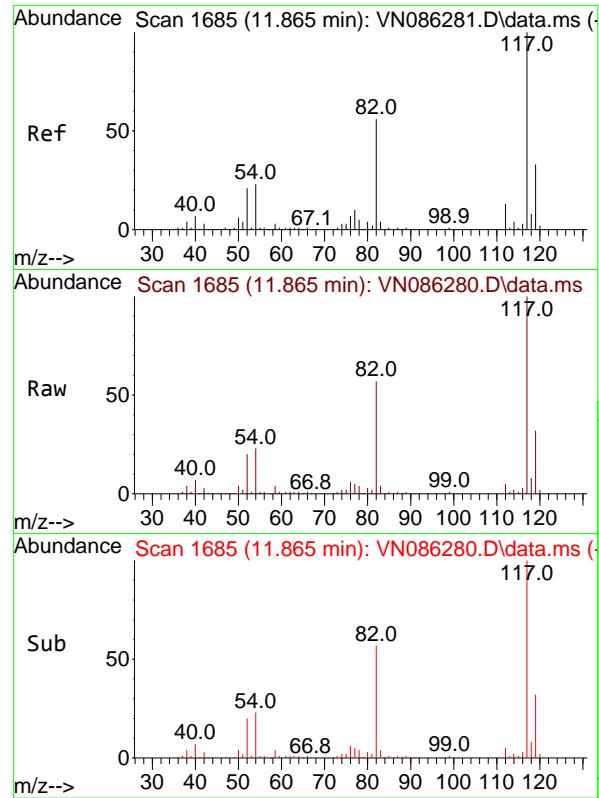
Ion Ratio Lower Upper

95 100

174 69.5 0.0 133.4

176 66.0 0.0 129.2



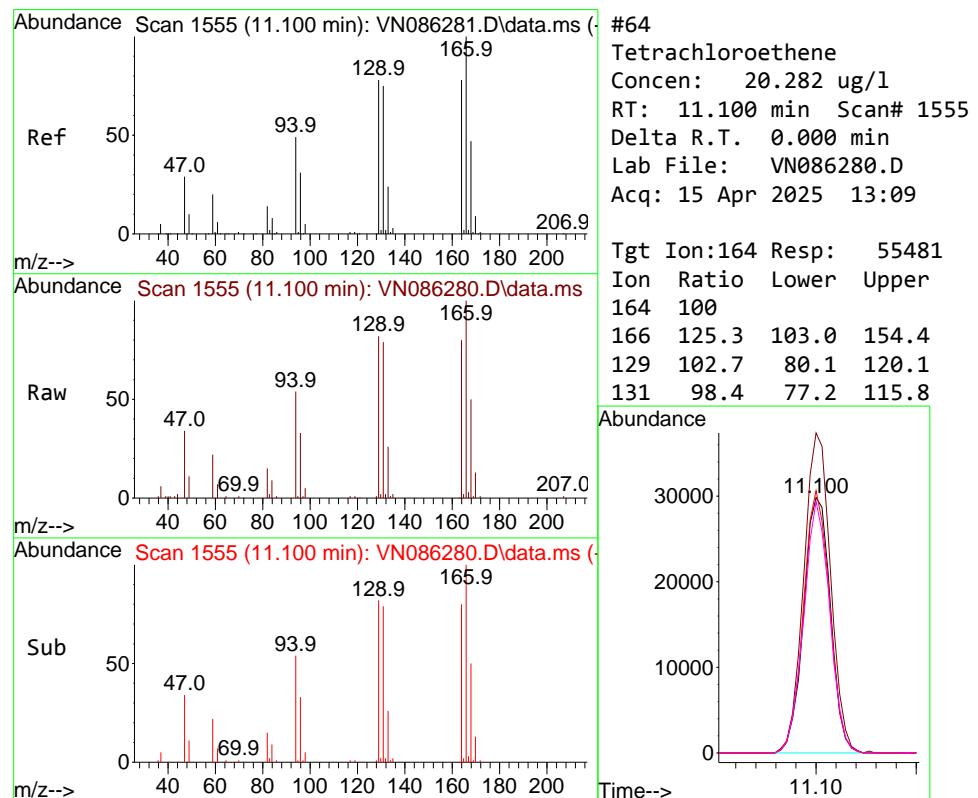
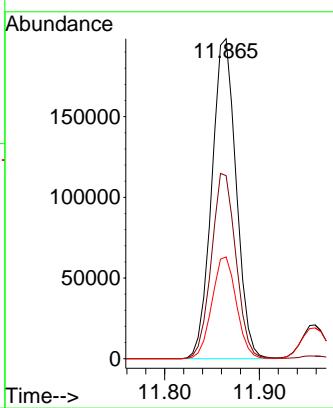


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086280.D
Acq: 15 Apr 2025 13:09

Instrument : MSVOA_N
ClientSampleId : VSTDICC020

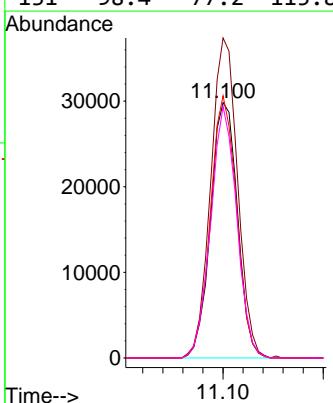
Manual Integrations APPROVED

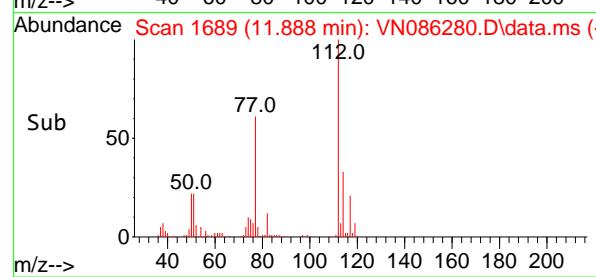
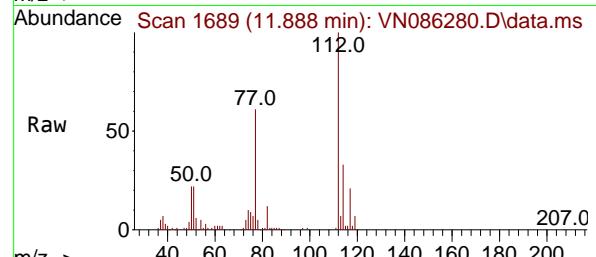
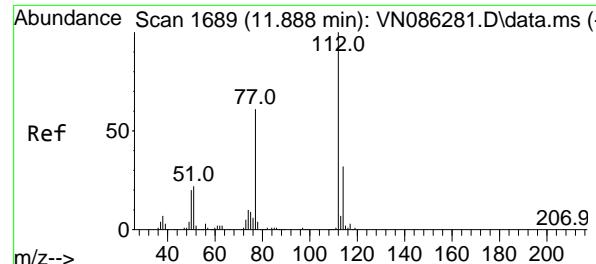
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#64
Tetrachloroethene
Concen: 20.282 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VN086280.D
Acq: 15 Apr 2025 13:09

Tgt Ion:164 Resp: 55481
Ion Ratio Lower Upper
164 100
166 125.3 103.0 154.4
129 102.7 80.1 120.1
131 98.4 77.2 115.8

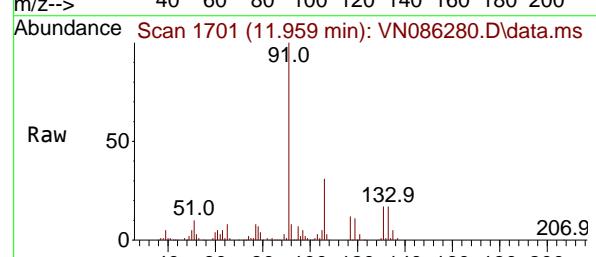
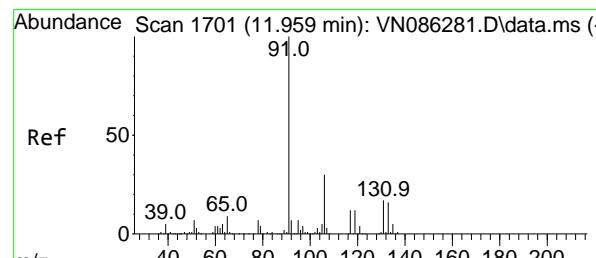
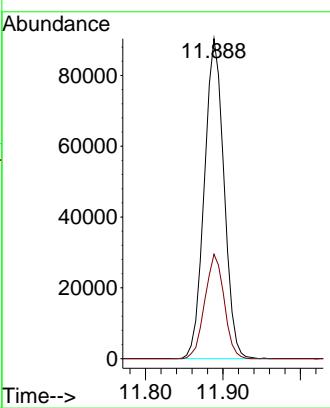




#65
Chlorobenzene
Concen: 20.024 ug/l
RT: 11.888 min Scan# 1
Instrument : MSVOA_N
Delta R.T. 0.000 min
Lab File: VN086280.D
Acq: 15 Apr 2025 13:09
ClientSampleId : VSTDICC020

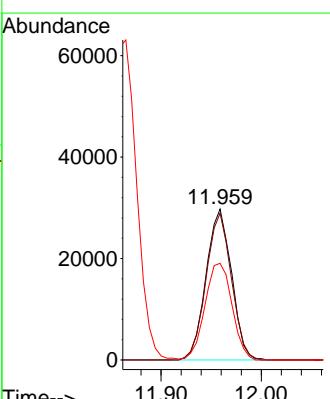
Manual Integrations APPROVED

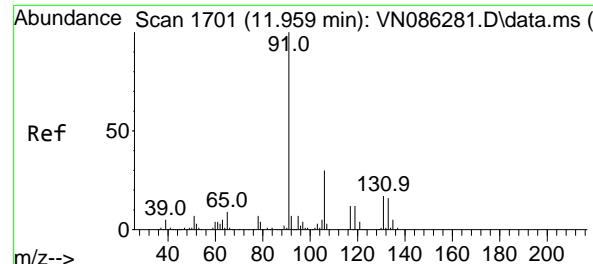
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



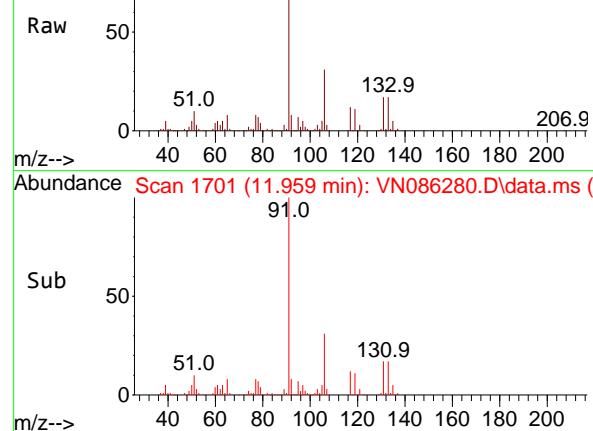
#66
1,1,1,2-Tetrachloroethane
Concen: 20.010 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN086280.D
Acq: 15 Apr 2025 13:09

Tgt Ion:131 Resp: 52389
Ion Ratio Lower Upper
131 100
133 96.9 47.1 141.3
119 68.2 33.8 101.4

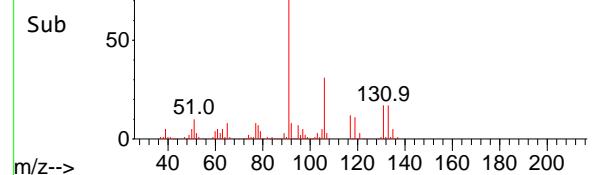




Abundance Scan 1701 (11.959 min): VN086280.D\data.ms (-)



Abundance Scan 1701 (11.959 min): VN086280.D\data.ms (-)



#67

Ethyl Benzene

Concen: 20.144 ug/l

RT: 11.959 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

Instrument:

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 91 Resp: 288481

Ion Ratio Lower Upper

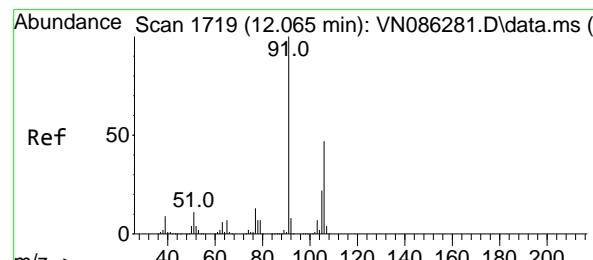
91 100

106 31.1 24.3 36.5

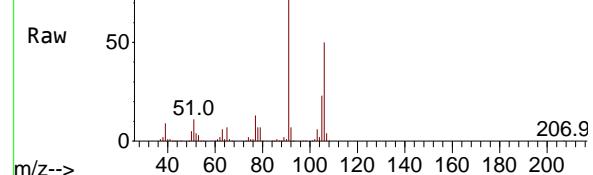
Manual Integrations**APPROVED**

Reviewed By :John Carbone 04/16/2025

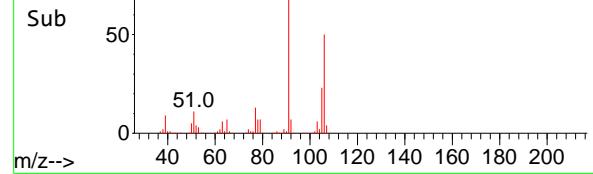
Supervised By :Semsettin Yesilyurt 04/16/2025



Abundance Scan 1720 (12.071 min): VN086280.D\data.ms (-)



Abundance Scan 1720 (12.071 min): VN086280.D\data.ms (-)



#68

m/p-Xylenes

Concen: 40.122 ug/l

RT: 12.071 min Scan# 1720

Delta R.T. 0.006 min

Lab File: VN086280.D

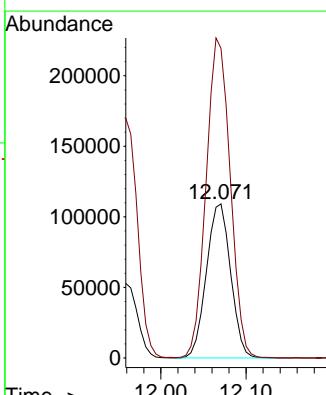
Acq: 15 Apr 2025 13:09

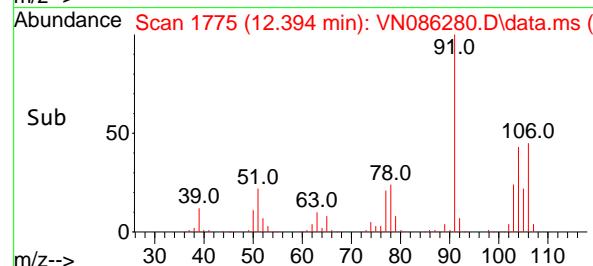
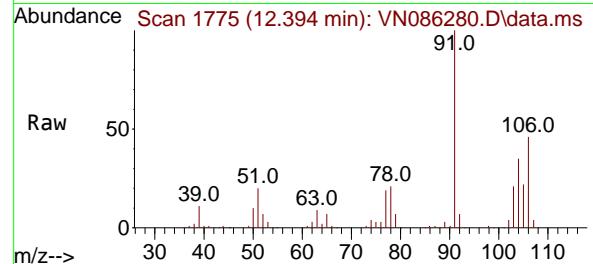
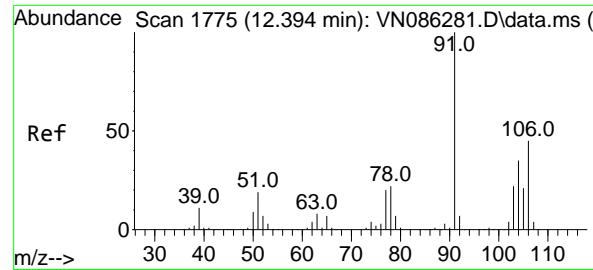
Tgt Ion: 106 Resp: 215301

Ion Ratio Lower Upper

106 100

91 207.0 166.5 249.7



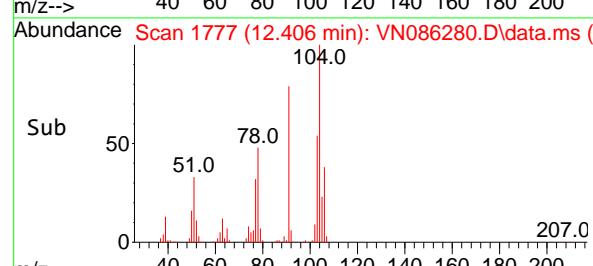
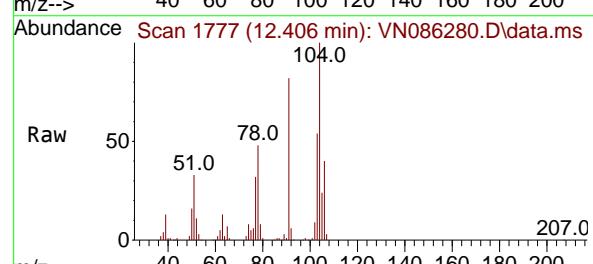
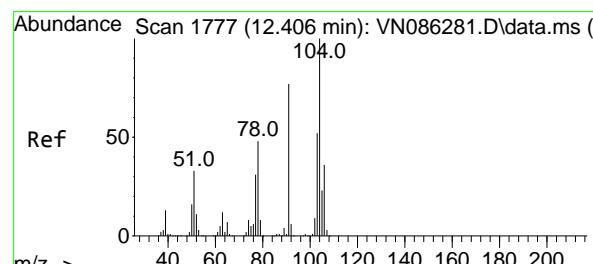
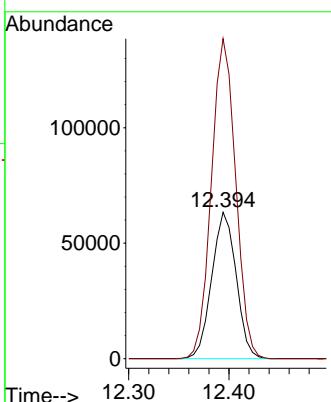


#69
o-Xylene
Concen: 20.193 ug/l
RT: 12.394 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086280.D
Acq: 15 Apr 2025 13:09

Instrument : MSVOA_N
ClientSampleId : VSTDICC020

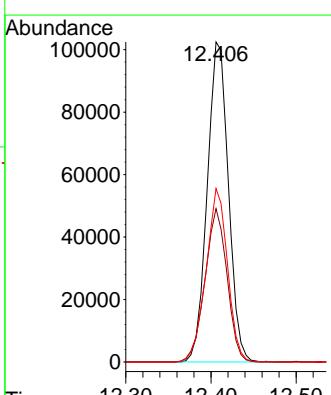
Manual Integrations APPROVED

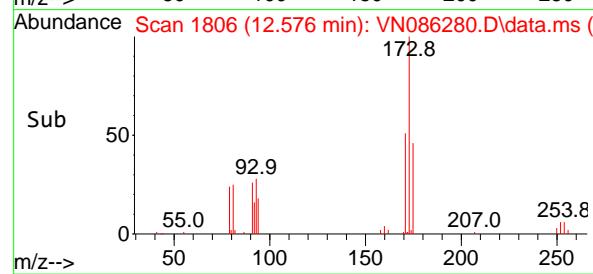
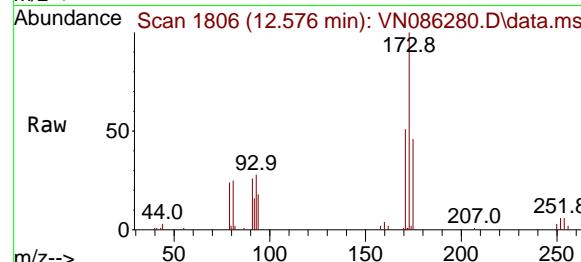
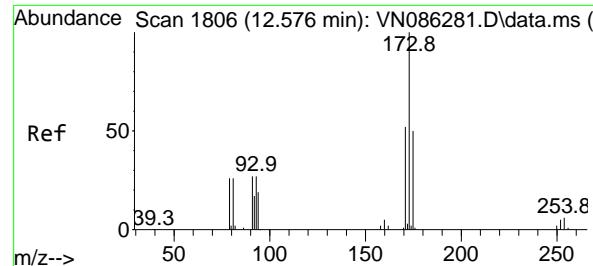
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#70
Styrene
Concen: 20.029 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VN086280.D
Acq: 15 Apr 2025 13:09

Tgt Ion:104 Resp: 177099
Ion Ratio Lower Upper
104 100
78 49.8 40.6 61.0
103 55.0 43.6 65.4





#71

Bromoform

Concen: 20.138 ug/l

RT: 12.576 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

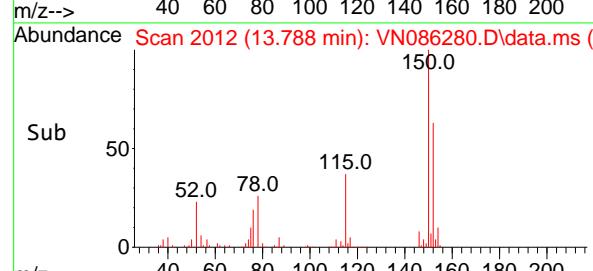
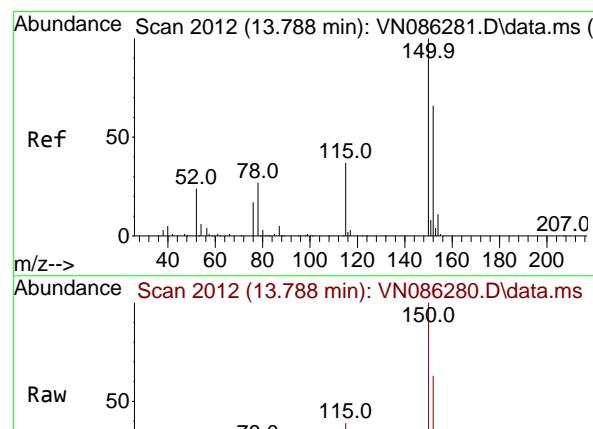
Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

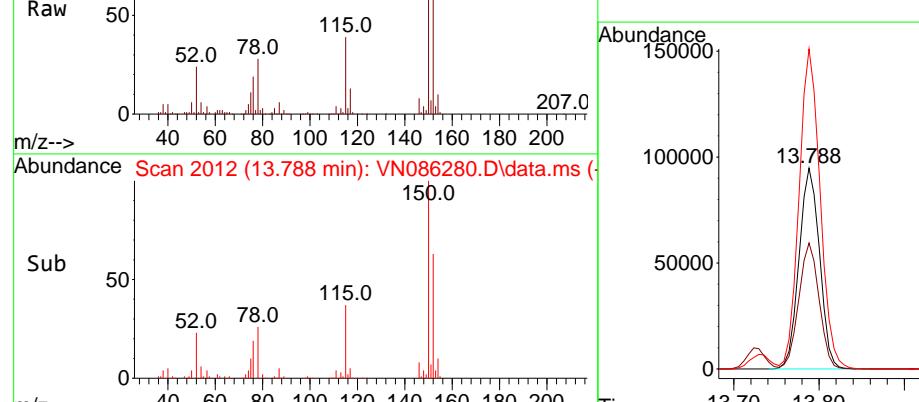
Tgt Ion:152 Resp: 158232

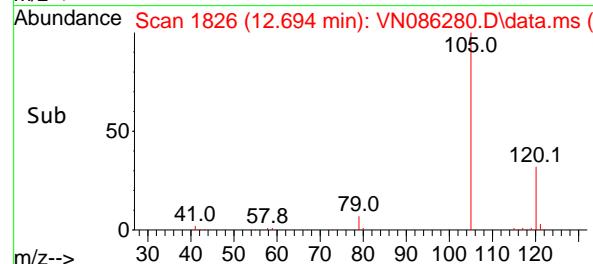
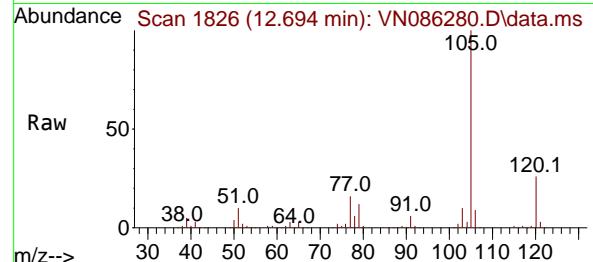
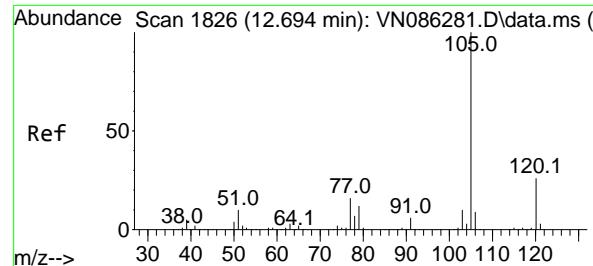
Ion Ratio Lower Upper

152 100

115 62.3 31.9 95.9

150 163.3 0.0 352.0





#73

Isopropylbenzene

Concen: 20.443 ug/l

RT: 12.694 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

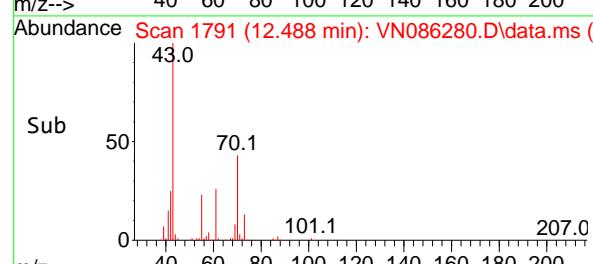
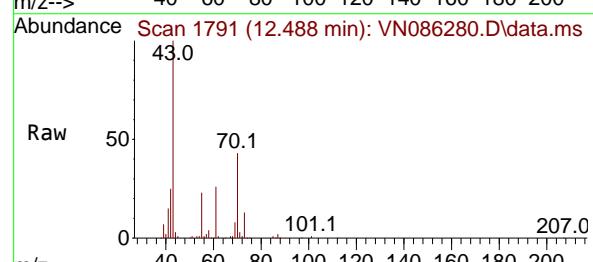
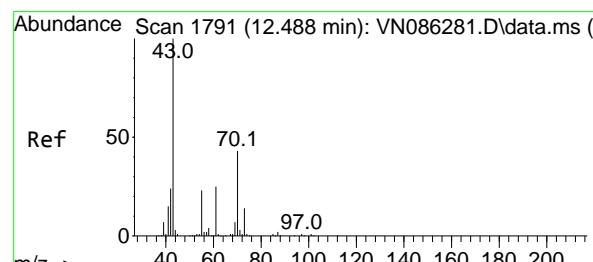
Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#74

N-amyl acetate

Concen: 19.643 ug/l

RT: 12.488 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

Tgt Ion: 43 Resp: 126575

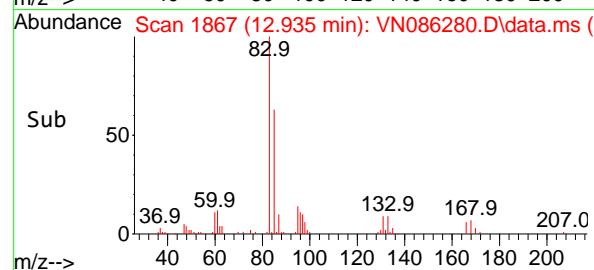
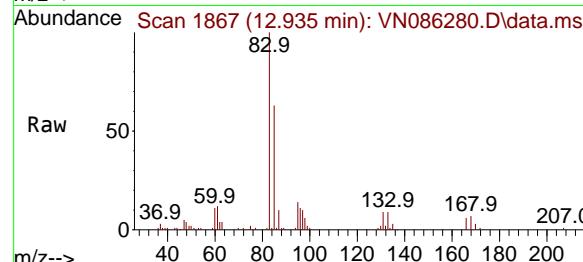
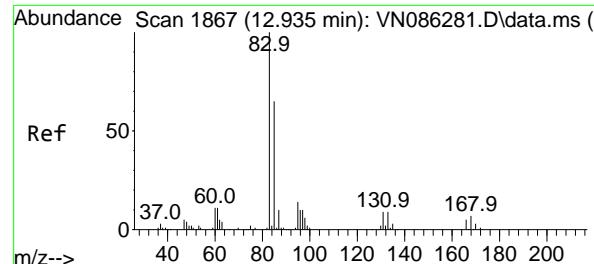
Ion Ratio Lower Upper

43 100

70 43.8 35.0 52.4

55 23.3 19.0 28.4

61 25.4 19.8 29.8



#75

1,1,2,2-Tetrachloroethane

Concen: 20.620 ug/l

RT: 12.935 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

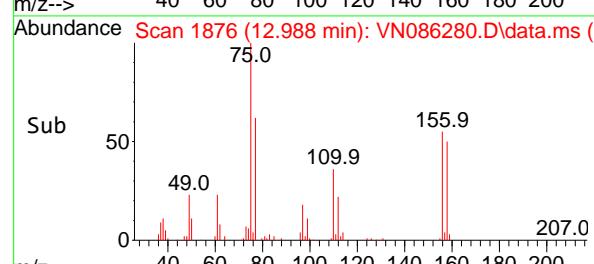
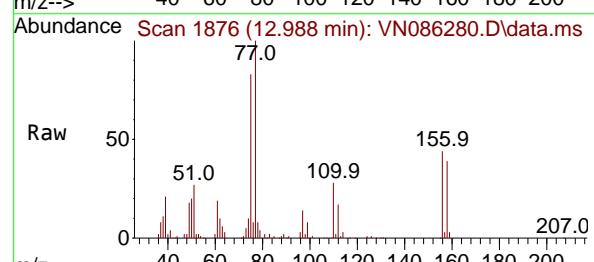
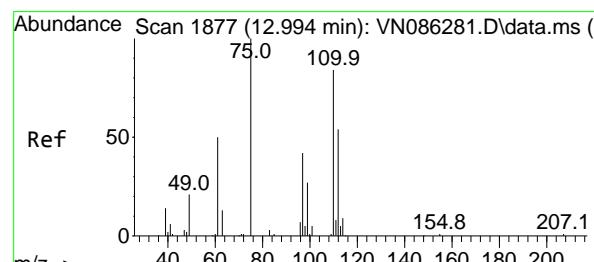
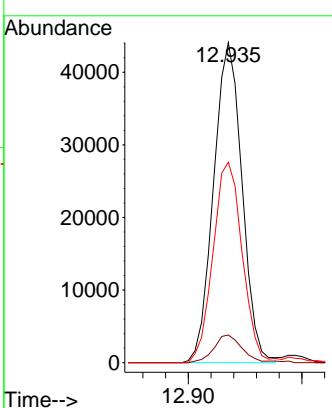
Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#76

1,2,3-Trichloropropane

Concen: 20.130 ug/l

RT: 12.988 min Scan# 1876

Delta R.T. -0.006 min

Lab File: VN086280.D

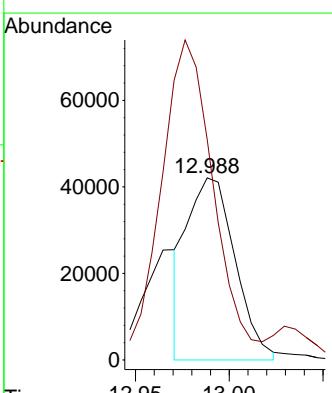
Acq: 15 Apr 2025 13:09

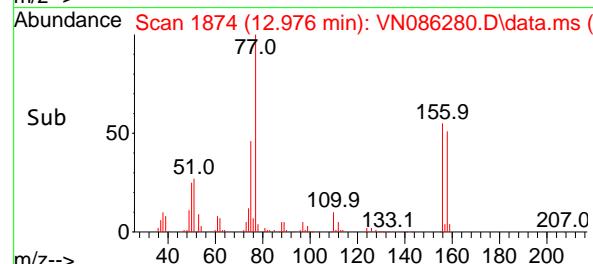
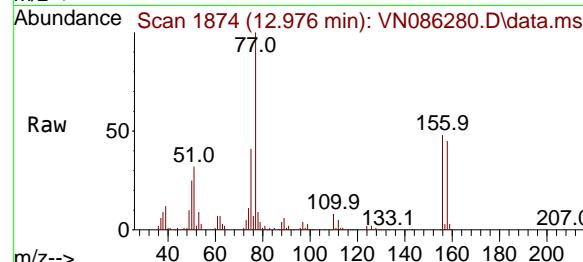
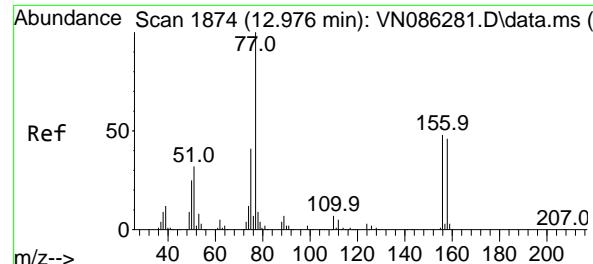
Tgt Ion: 75 Resp: 74829

Ion Ratio Lower Upper

75 100

77 192.9 98.8 296.4





#77

Bromobenzene

Concen: 20.882 ug/l

RT: 12.976 min Scan# 1874

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

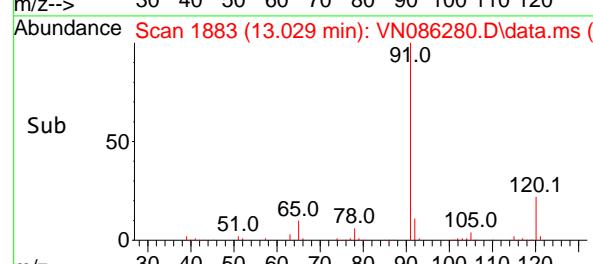
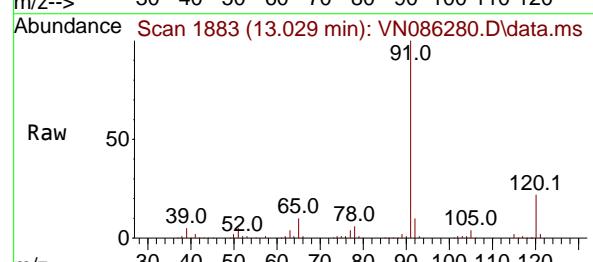
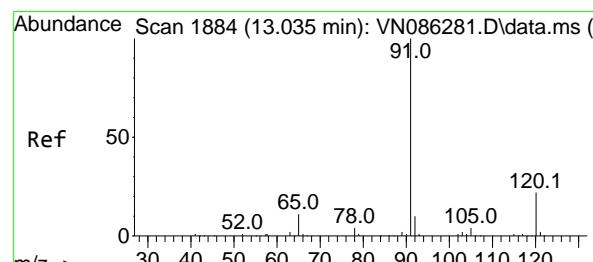
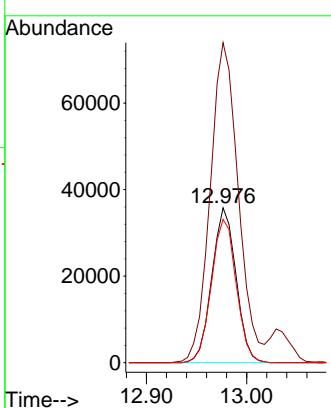
Instrument:

MSVOA_N

ClientSampleId :

VSTDICC020

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#78

n-propylbenzene

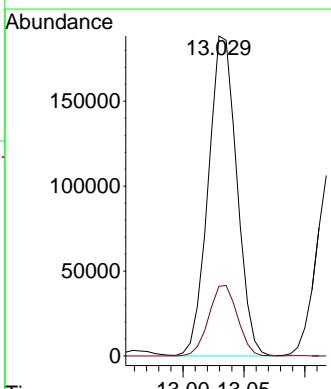
Concen: 20.176 ug/l

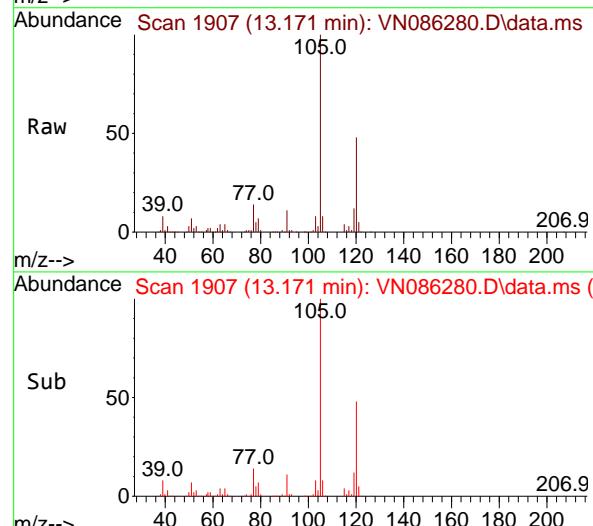
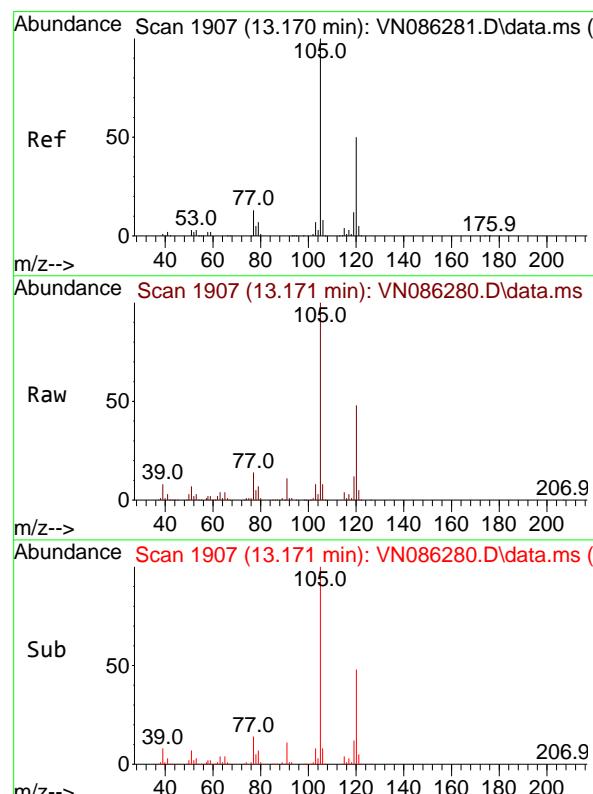
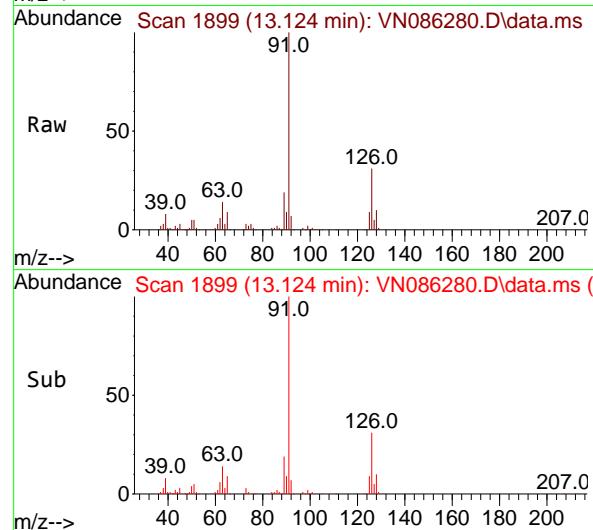
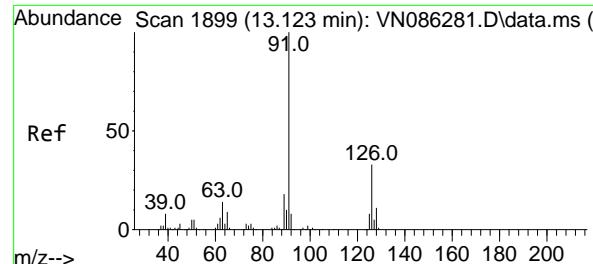
RT: 13.029 min Scan# 1883

Delta R.T. -0.006 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

 Tgt Ion: 91 Resp: 307737
 Ion Ratio Lower Upper
 91 100
 120 22.1 11.1 33.3




#79

2-Chlorotoluene

Concen: 20.281 ug/l

RT: 13.124 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 91 Resp: 193569

Ion Ratio Lower Upper

91 100

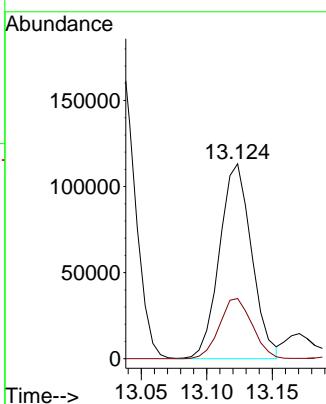
126 31.5 16.1 48.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#80

1,3,5-Trimethylbenzene

Concen: 20.423 ug/l

RT: 13.171 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VN086280.D

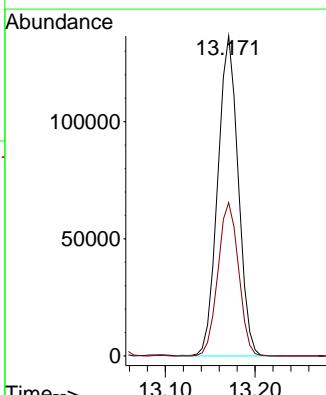
Acq: 15 Apr 2025 13:09

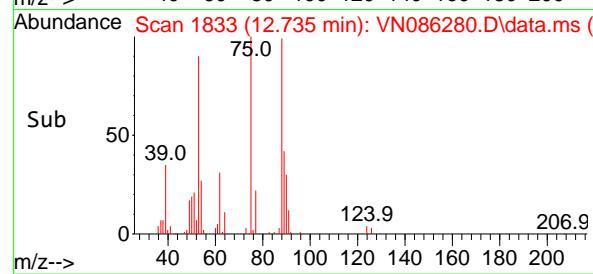
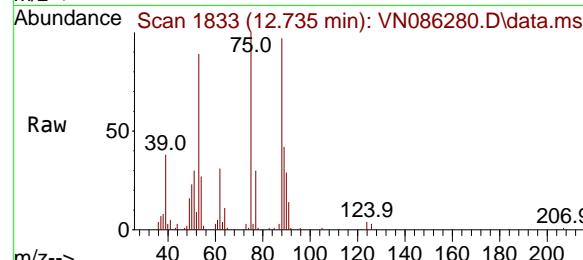
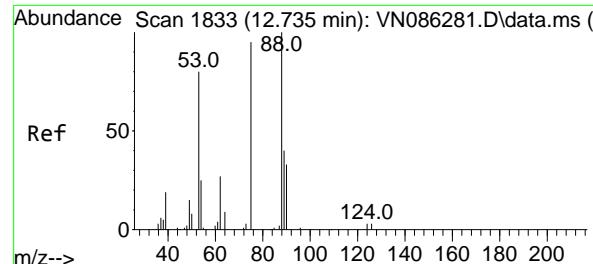
Tgt Ion:105 Resp: 216364

Ion Ratio Lower Upper

105 100

120 48.3 24.5 73.5





#81

trans-1,4-Dichloro-2-butene

Concen: 20.104 ug/l m

RT: 12.735 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

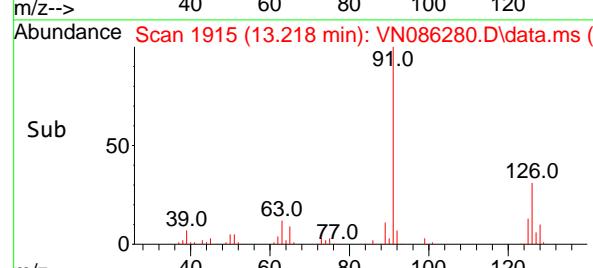
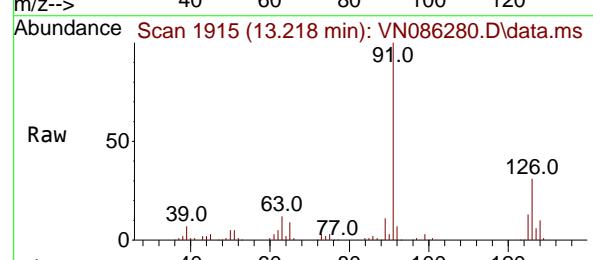
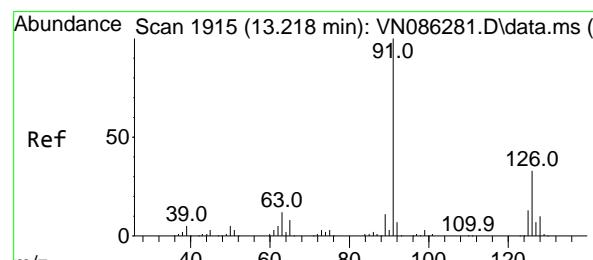
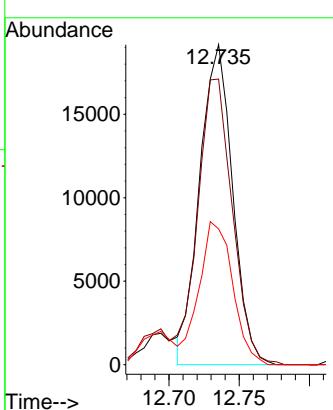
Instrument:

MSVOA_N

ClientSampleId :

VSTDICC020

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#82

4-Chlorotoluene

Concen: 20.341 ug/l

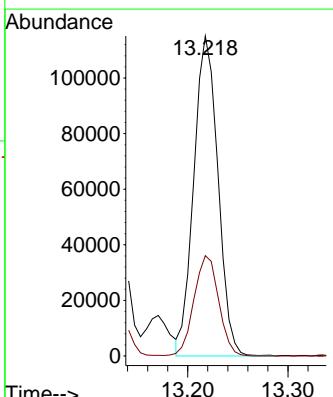
RT: 13.218 min Scan# 1915

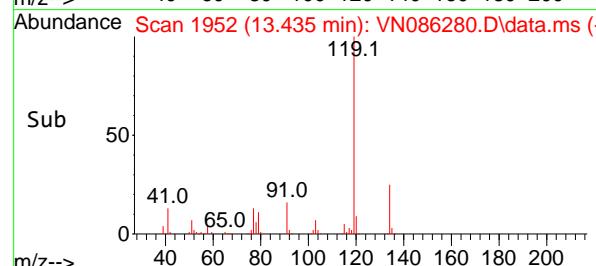
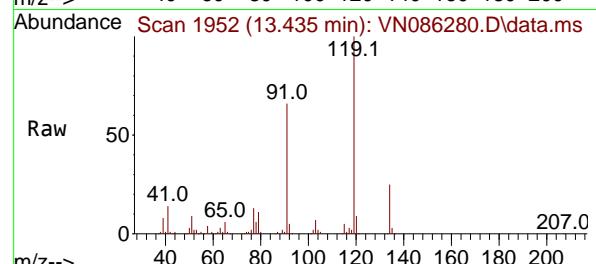
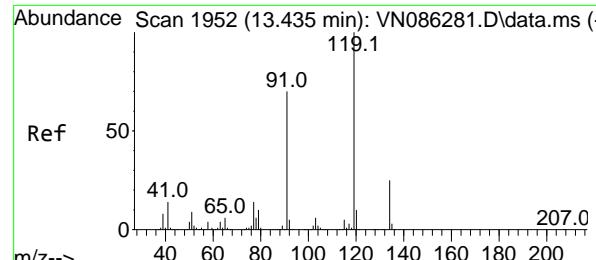
Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

| Tgt | Ion | 91 | Resp: | 192849 |
|-----|-------|-------|-------|--------|
| Ion | Ratio | Lower | Upper | |
| | 91 | 100 | | |
| | 126 | 32.0 | 16.2 | 48.6 |





#83

tert-Butylbenzene

Concen: 19.901 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

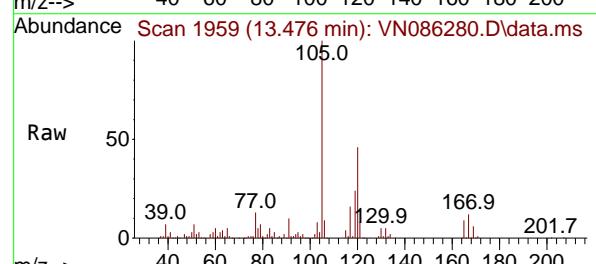
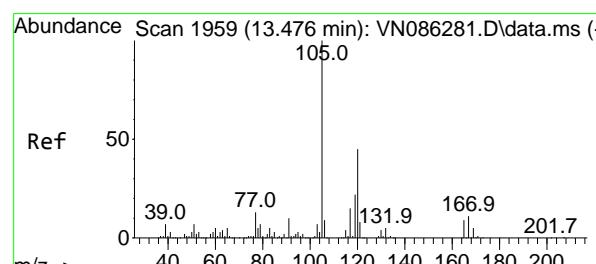
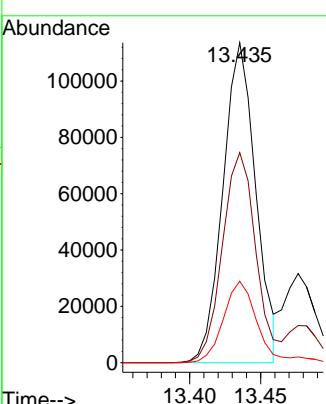
Instrument:

MSVOA_N

ClientSampleId :

VSTDICC020

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#84

1,2,4-Trimethylbenzene

Concen: 20.135 ug/l

RT: 13.476 min Scan# 1959

Delta R.T. 0.000 min

Lab File: VN086280.D

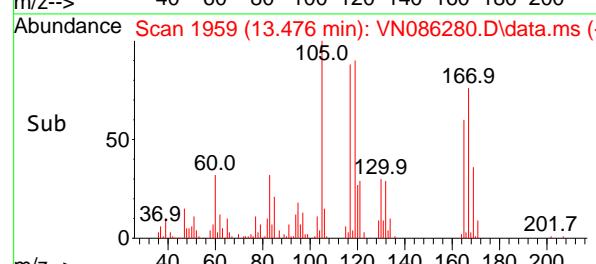
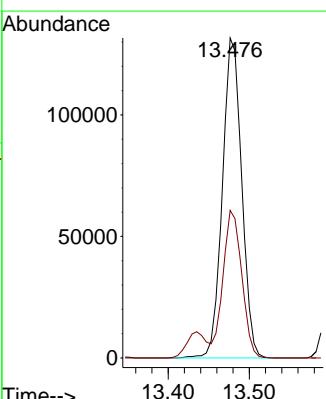
Acq: 15 Apr 2025 13:09

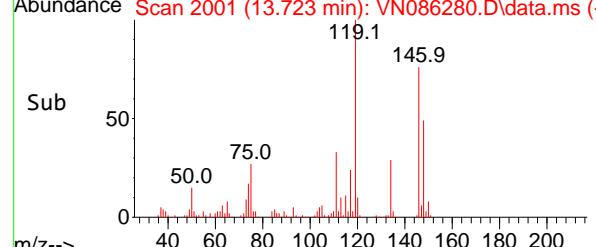
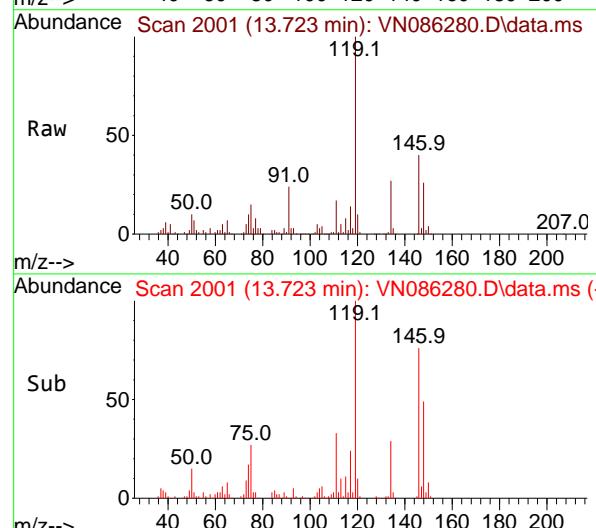
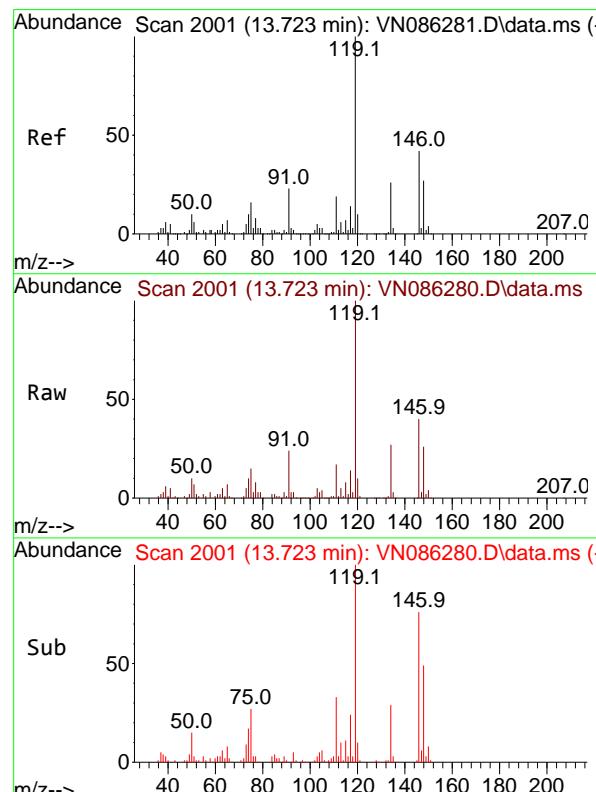
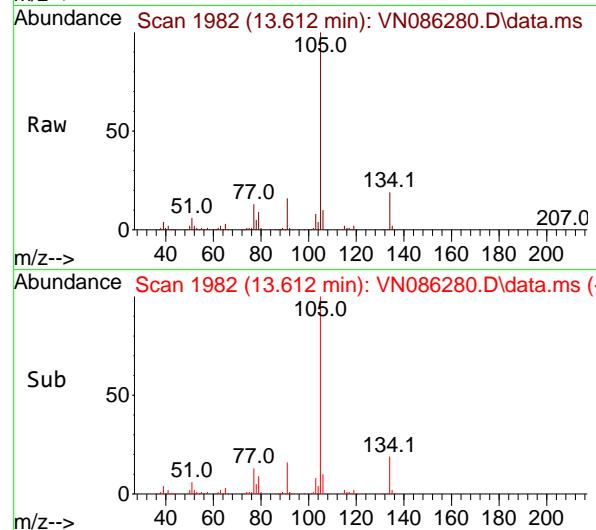
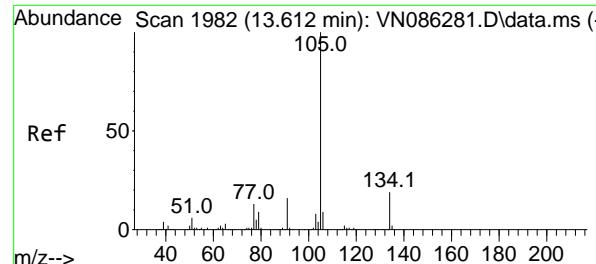
Tgt Ion:105 Resp: 217135

Ion Ratio Lower Upper

105 100

120 44.8 22.4 67.3





#85

sec-Butylbenzene

Concen: 19.838 ug/l

RT: 13.612 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion:105 Resp: 252591

Ion Ratio Lower Upper

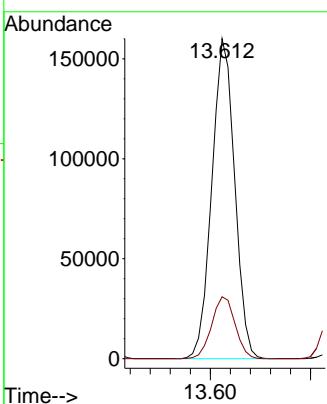
105 100

134 19.9 9.7 29.1

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#86

p-Isopropyltoluene

Concen: 19.844 ug/l

RT: 13.723 min Scan# 2001

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

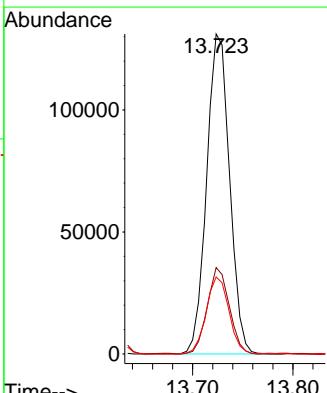
Tgt Ion:119 Resp: 208256

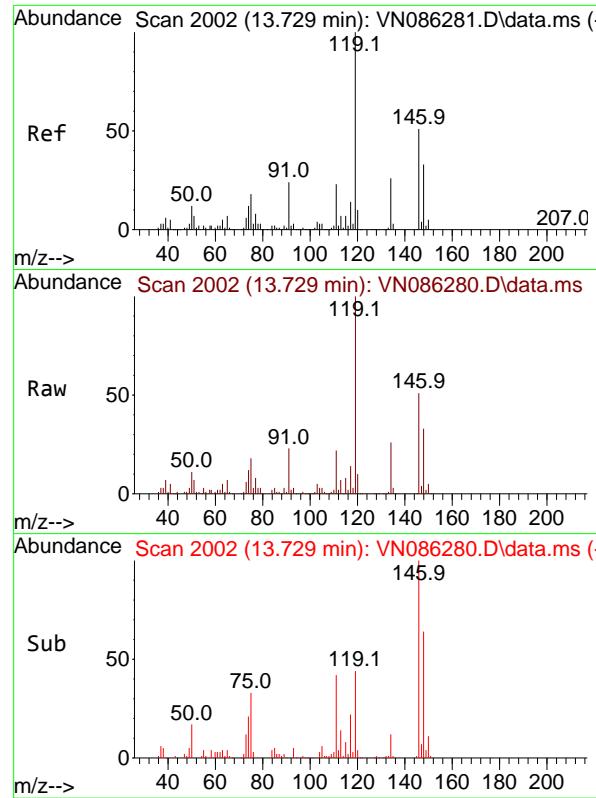
Ion Ratio Lower Upper

119 100

134 25.9 13.1 39.1

91 23.8 11.9 35.9





#87

1,3-Dichlorobenzene

Concen: 19.938 ug/l

RT: 13.729 min Scan# 2

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

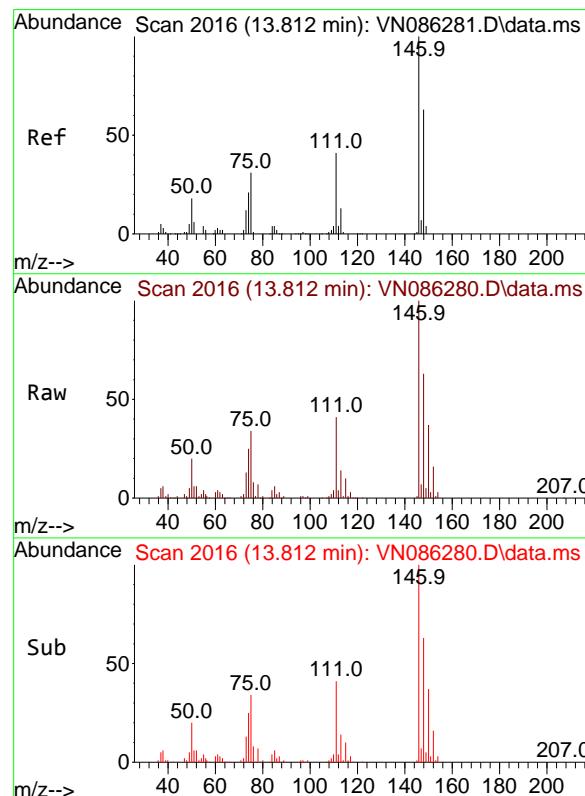
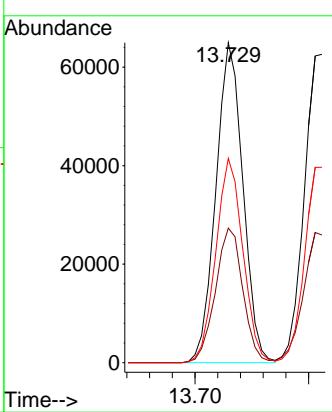
Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#88

1,4-Dichlorobenzene

Concen: 19.964 ug/l

RT: 13.812 min Scan# 2016

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

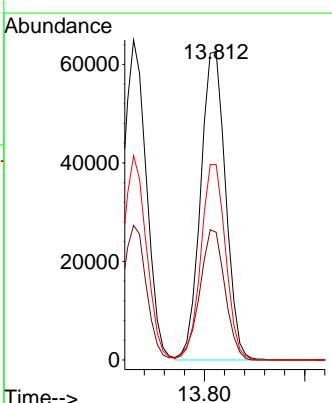
Tgt Ion:146 Resp: 108412

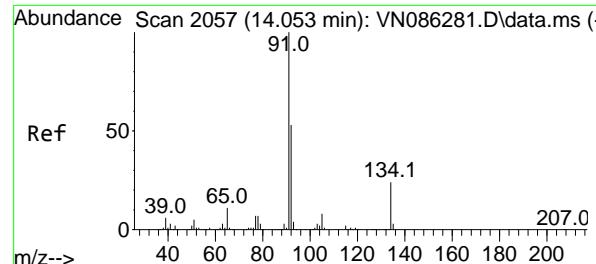
Ion Ratio Lower Upper

146 100

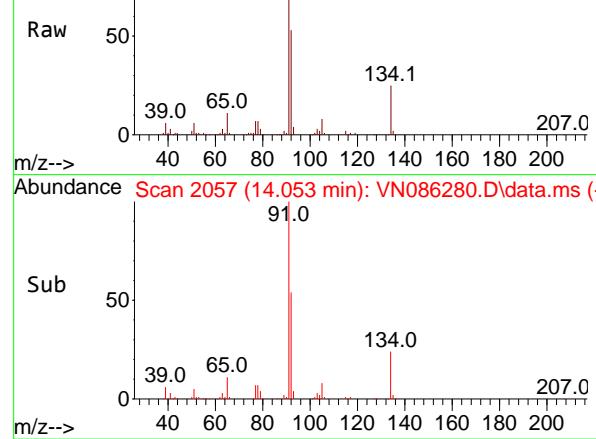
111 42.6 21.3 63.9

148 62.6 31.9 95.9





Abundance Scan 2057 (14.053 min): VN086280.D\data.ms (-)



#89

n-Butylbenzene

Concen: 19.871 ug/l

RT: 14.053 min Scan# 2

Instrument :

MSVOA_N

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

ClientSampleId :

VSTDICC020

Tgt Ion: 91 Resp: 184852

Ion Ratio Lower Upper

91 100

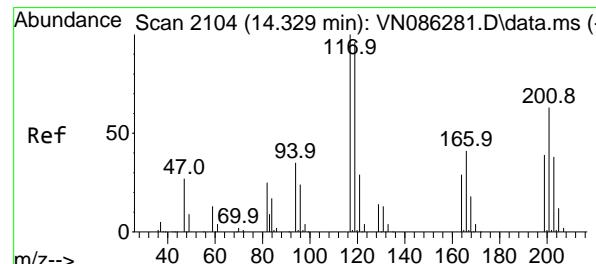
92 52.6 26.8 80.4

134 24.4 12.2 36.6

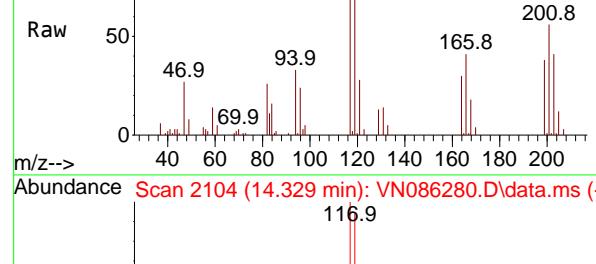
Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



Abundance Scan 2104 (14.329 min): VN086280.D\data.ms (-)



#90

Hexachloroethane

Concen: 19.968 ug/l

RT: 14.329 min Scan# 2104

Delta R.T. 0.000 min

Lab File: VN086280.D

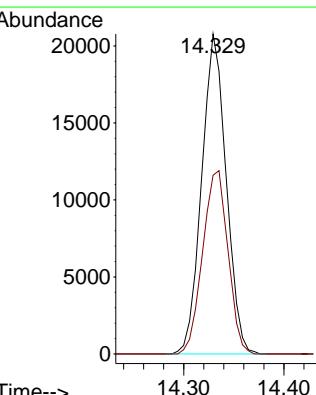
Acq: 15 Apr 2025 13:09

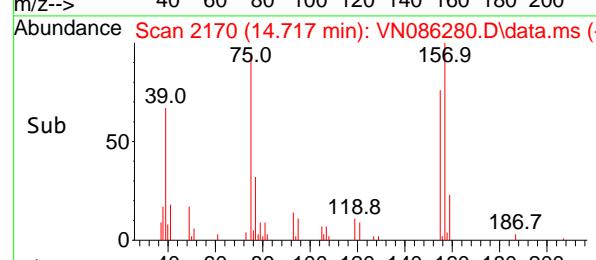
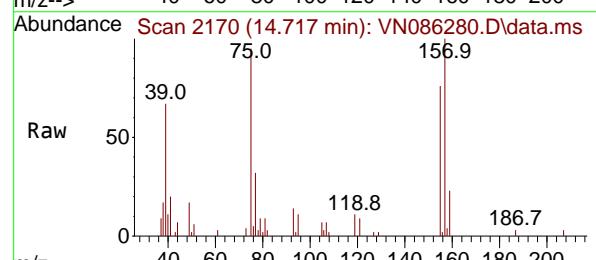
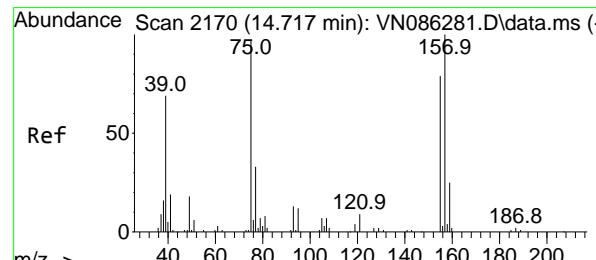
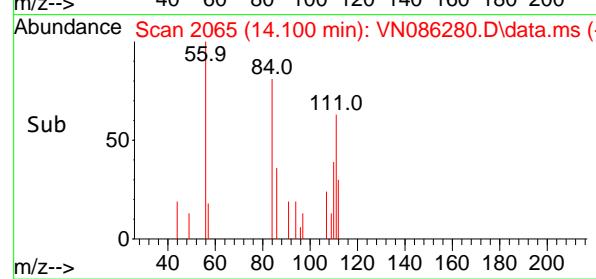
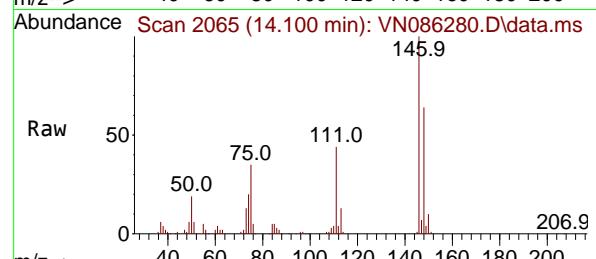
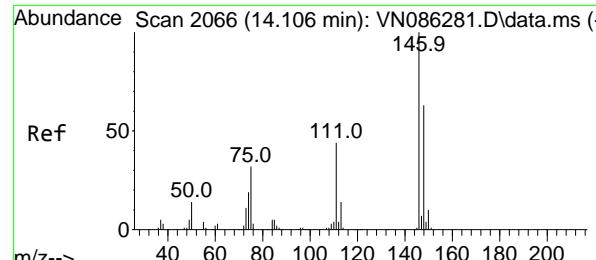
Tgt Ion: 117 Resp: 35250

Ion Ratio Lower Upper

117 100

201 59.3 31.4 94.2





#91

1,2-Dichlorobenzene

Concen: 19.932 ug/l

RT: 14.100 min Scan# 2

Delta R.T. -0.006 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion:146 Resp: 10418

Ion Ratio Lower Upper

146 100

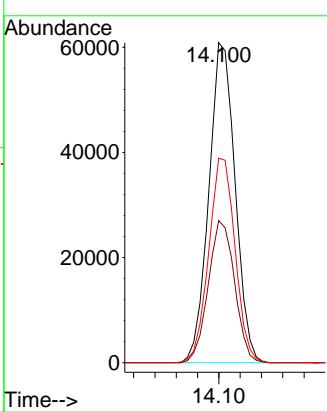
111 44.5 22.4 67.0

148 64.1 31.8 95.4

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#92

1,2-Dibromo-3-Chloropropane

Concen: 21.139 ug/l

RT: 14.717 min Scan# 2170

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

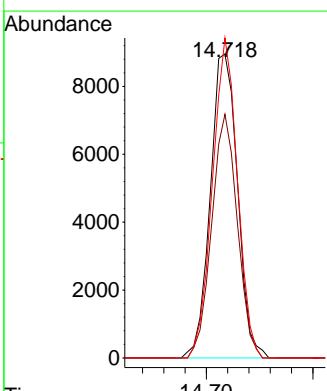
Tgt Ion: 75 Resp: 15863

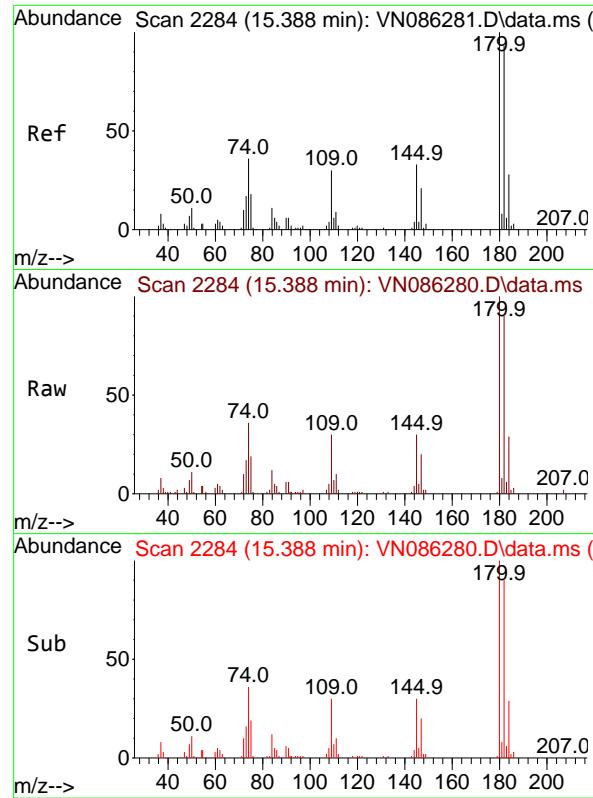
Ion Ratio Lower Upper

75 100

155 75.5 40.3 120.9

157 96.5 49.0 147.2



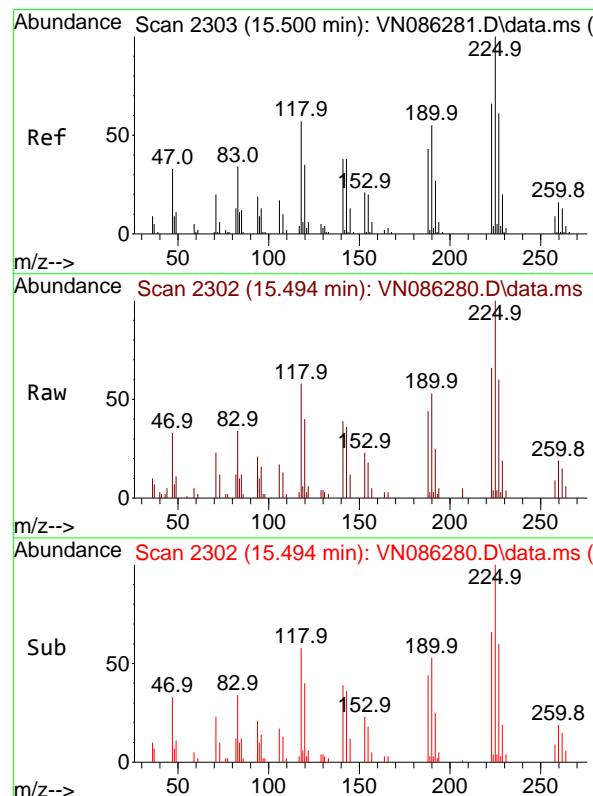
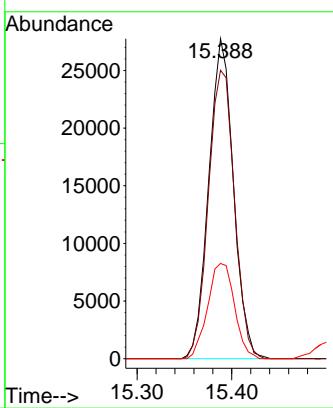


#93
1,2,4-Trichlorobenzene
Concen: 20.048 ug/l
RT: 15.388 min Scan# 2

Instrument : MSVOA_N
ClientSampleId : VSTDICC020
Acq: 15 Apr 2025 13:09

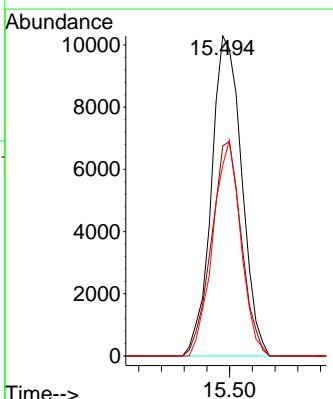
Manual Integrations APPROVED

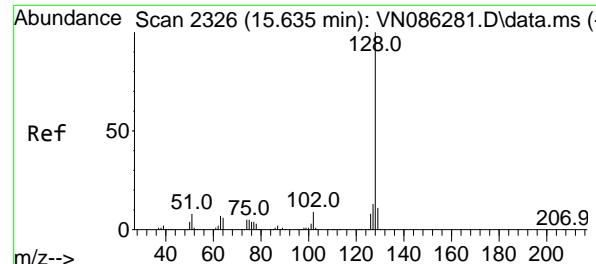
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



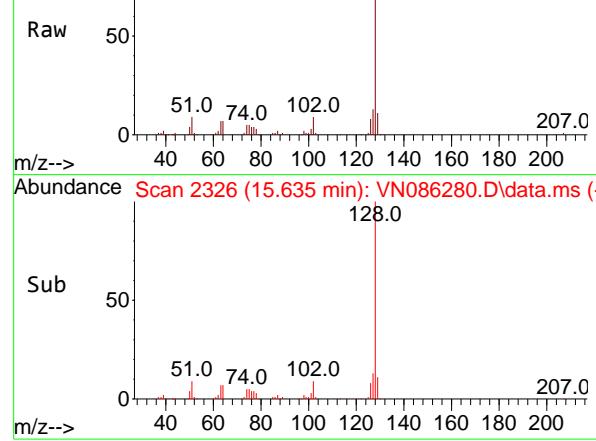
#94
Hexachlorobutadiene
Concen: 20.135 ug/l
RT: 15.494 min Scan# 2302
Delta R.T. -0.006 min
Lab File: VN086280.D
Acq: 15 Apr 2025 13:09

Tgt Ion:225 Resp: 19024
Ion Ratio Lower Upper
225 100
223 66.4 32.8 98.3
227 62.2 31.4 94.0

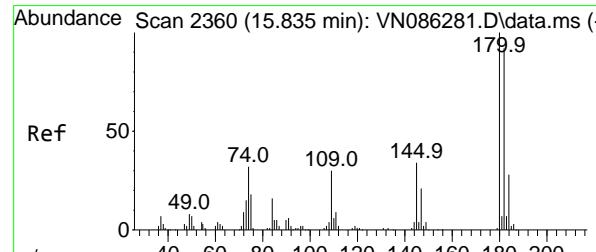
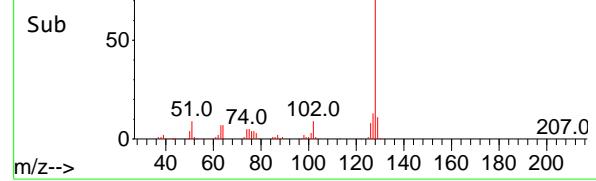




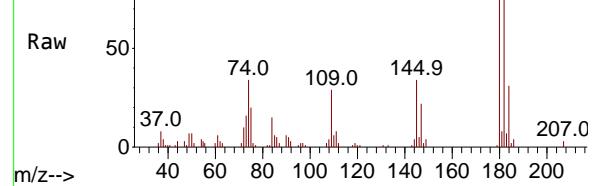
Abundance Scan 2326 (15.635 min): VN086280.D\data.ms (-)



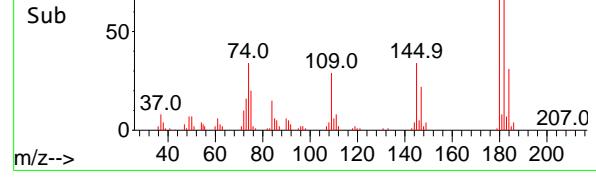
Abundance Scan 2326 (15.635 min): VN086280.D\data.ms (-)



Abundance Scan 2360 (15.835 min): VN086280.D\data.ms (-)



Abundance Scan 2360 (15.835 min): VN086280.D\data.ms (-)



#95

Naphthalene

Concen: 20.717 ug/l

RT: 15.635 min Scan# 2

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion:128 Resp: 183810

Ion Ratio Lower Upper

128 100

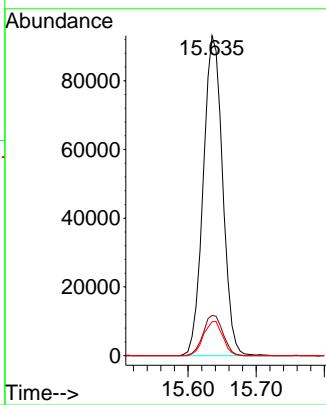
127 13.0 10.2 15.4

129 10.6 8.6 13.0

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#96

1,2,3-Trichlorobenzene

Concen: 20.013 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

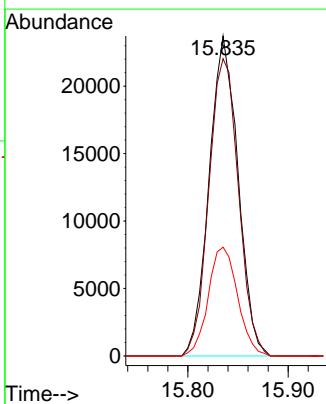
Tgt Ion:180 Resp: 47425

Ion Ratio Lower Upper

180 100

182 95.3 47.3 142.0

145 34.6 17.2 51.5



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041525\
 Data File : VN086281.D
 Acq On : 15 Apr 2025 13:51
 Operator : JC\MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Quant Time: Apr 16 03:57:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 03:42:50 2025
 Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :John Carlane 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|------------------------------------|----------------|------|----------|---------|----------|----------|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 8.218 | 168 | 223468 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 9.100 | 114 | 413969 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.865 | 117 | 367304 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.788 | 152 | 173703 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.577 | 65 | 160758 | 49.609 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery | = | 99.220% | |
| 35) Dibromofluoromethane | 8.165 | 113 | 88836 | 46.238 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery | = | 92.480% | |
| 50) Toluene-d8 | 10.565 | 98 | 517785 | 50.426 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery | = | 100.860% | |
| 62) 4-Bromofluorobenzene | 12.847 | 95 | 190049 | 50.744 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery | = | 101.480% | |
| Target Compounds | | | | | | |
| | | | | Qvalue | | |
| 2) Dichlorodifluoromethane | 2.124 | 85 | 132017 | 49.836 | ug/l | 100 |
| 3) Chloromethane | 2.359 | 50 | 168565 | 43.783 | ug/l | 100 |
| 4) Vinyl Chloride | 2.518 | 62 | 176686 | 48.092 | ug/l | 100 |
| 5) Bromomethane | 2.953 | 94 | 79546 | 48.135 | ug/l | 100 |
| 6) Chloroethane | 3.118 | 64 | 111725 | 45.437 | ug/l | 100 |
| 7) Trichlorofluoromethane | 3.501 | 101 | 192876 | 47.395 | ug/l | 100 |
| 8) Diethyl Ether | 3.959 | 74 | 83664 | 47.092 | ug/l | 100 |
| 9) 1,1,2-Trichlorotrifluo... | 4.371 | 101 | 117478 | 47.719 | ug/l | 100 |
| 10) Methyl Iodide | 4.589 | 142 | 133779 | 49.427 | ug/l | 100 |
| 11) Tert butyl alcohol | 5.512 | 59 | 138743 | 234.659 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 4.342 | 96 | 123106 | 46.805 | ug/l | 100 |
| 13) Acrolein | 4.177 | 56 | 68075 | 246.717 | ug/l | 100 |
| 14) Allyl chloride | 5.024 | 41 | 207525 | 44.409 | ug/l | 100 |
| 15) Acrylonitrile | 5.712 | 53 | 354632 | 242.632 | ug/l | 100 |
| 16) Acetone | 4.424 | 43 | 280935 | 250.761 | ug/l | 100 |
| 17) Carbon Disulfide | 4.712 | 76 | 348133 | 44.205 | ug/l | 100 |
| 18) Methyl Acetate | 5.018 | 43 | 174600 | 44.886 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 5.789 | 73 | 449127 | 46.453 | ug/l | 100 |
| 20) Methylene Chloride | 5.271 | 84 | 138293 | 46.163 | ug/l | 100 |
| 21) trans-1,2-Dichloroethene | 5.789 | 96 | 128404 | 46.696 | ug/l | 100 |
| 22) Diisopropyl ether | 6.665 | 45 | 471385 | 46.345 | ug/l | 100 |
| 23) Vinyl Acetate | 6.600 | 43 | 1657348 | 233.153 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 6.565 | 63 | 253896 | 47.310 | ug/l | 100 |
| 25) 2-Butanone | 7.477 | 43 | 475281 | 235.633 | ug/l | 100 |
| 26) 2,2-Dichloropropane | 7.483 | 77 | 219735 | 45.729 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 7.483 | 96 | 159460 | 46.722 | ug/l | 100 |
| 28) Bromochloromethane | 7.806 | 49 | 110726 | 48.660 | ug/l | 100 |
| 29) Tetrahydrofuran | 7.836 | 42 | 313920 | 232.739 | ug/l | 100 |
| 30) Chloroform | 7.965 | 83 | 246843 | 46.823 | ug/l | 100 |
| 31) Cyclohexane | 8.253 | 56 | 238117 | 45.343 | ug/l | 100 |
| 32) 1,1,1-Trichloroethane | 8.165 | 97 | 212021 | 47.013 | ug/l | 100 |
| 36) 1,1-Dichloropropene | 8.365 | 75 | 183246 | 47.752 | ug/l | 100 |
| 37) Ethyl Acetate | 7.553 | 43 | 184834 | 45.750 | ug/l | 100 |
| 38) Carbon Tetrachloride | 8.359 | 117 | 175094 | 47.912 | ug/l | 100 |
| 39) Methylcyclohexane | 9.594 | 83 | 216725 | 47.515 | ug/l | 100 |
| 40) Benzene | 8.600 | 78 | 583316 | 47.443 | ug/l | 100 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041525\
 Data File : VN086281.D
 Acq On : 15 Apr 2025 13:51
 Operator : JC\MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Quant Time: Apr 16 03:57:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 03:42:50 2025
 Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :John Carlane 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile | 7.771 | 41 | 109214 | 46.643 | ug/l | 100 |
| 42) 1,2-Dichloroethane | 8.665 | 62 | 183854 | 46.892 | ug/l | 100 |
| 43) Isopropyl Acetate | 8.683 | 43 | 358327 | 49.550 | ug/l | 100 |
| 44) Trichloroethene | 9.347 | 130 | 139993 | 48.039 | ug/l | 100 |
| 45) 1,2-Dichloropropane | 9.618 | 63 | 144496 | 48.011 | ug/l | 100 |
| 46) Dibromomethane | 9.706 | 93 | 93965 | 49.002 | ug/l | 100 |
| 47) Bromodichloromethane | 9.882 | 83 | 196793 | 47.516 | ug/l | 100 |
| 48) Methyl methacrylate | 9.677 | 41 | 163719 | 46.146 | ug/l | 100 |
| 49) 1,4-Dioxane | 9.694 | 88 | 53851 | 892.337 | ug/l | 100 |
| 51) 4-Methyl-2-Pentanone | 10.441 | 43 | 1000994 | 241.959 | ug/l | 100 |
| 52) Toluene | 10.629 | 92 | 369349 | 48.144 | ug/l | 100 |
| 53) t-1,3-Dichloropropene | 10.829 | 75 | 226518 | 48.996 | ug/l | 100 |
| 54) cis-1,3-Dichloropropene | 10.306 | 75 | 238764 | 47.021 | ug/l | 100 |
| 55) 1,1,2-Trichloroethane | 11.012 | 97 | 131721 | 47.721 | ug/l | 100 |
| 56) Ethyl methacrylate | 10.871 | 69 | 239654 | 47.235 | ug/l | 100 |
| 57) 1,3-Dichloropropane | 11.159 | 76 | 233548 | 47.689 | ug/l | 100 |
| 58) 2-Chloroethyl Vinyl ether | 10.159 | 63 | 594475 | 246.859 | ug/l | 100 |
| 59) 2-Hexanone | 11.194 | 43 | 734660 | 239.414 | ug/l | 100 |
| 60) Dibromochloromethane | 11.359 | 129 | 146318 | 48.274 | ug/l | 100 |
| 61) 1,2-Dibromoethane | 11.465 | 107 | 134281 | 48.213 | ug/l | 100 |
| 64) Tetrachloroethene | 11.100 | 164 | 136116 | 48.177 | ug/l | 100 |
| 65) Chlorobenzene | 11.888 | 112 | 385849 | 47.072 | ug/l | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 11.959 | 131 | 127627 | 47.197 | ug/l | 100 |
| 67) Ethyl Benzene | 11.959 | 91 | 704474 | 47.627 | ug/l | 100 |
| 68) m/p-Xylenes | 12.065 | 106 | 533742 | 96.302 | ug/l | 100 |
| 69) o-Xylene | 12.394 | 106 | 261904 | 47.783 | ug/l | 100 |
| 70) Styrene | 12.406 | 104 | 447486 | 48.998 | ug/l | 100 |
| 71) Bromoform | 12.576 | 173 | 95822 | 47.065 | ug/l # | 100 |
| 73) Isopropylbenzene | 12.694 | 105 | 647490 | 45.568 | ug/l | 100 |
| 74) N-amyl acetate | 12.488 | 43 | 308916 | 43.670 | ug/l | 100 |
| 75) 1,1,2,2-Tetrachloroethane | 12.935 | 83 | 179865 | 44.025 | ug/l | 100 |
| 76) 1,2,3-Trichloropropane | 12.994 | 75 | 181010m | 44.357 | ug/l | |
| 77) Bromobenzene | 12.976 | 156 | 147720 | 46.919 | ug/l | 100 |
| 78) n-propylbenzene | 13.035 | 91 | 779530 | 46.556 | ug/l | 100 |
| 79) 2-Chlorotoluene | 13.123 | 91 | 479235 | 45.740 | ug/l | 100 |
| 80) 1,3,5-Trimethylbenzene | 13.170 | 105 | 535465 | 46.042 | ug/l | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.735 | 75 | 80078m | 46.919 | ug/l | |
| 82) 4-Chlorotoluene | 13.218 | 91 | 488049 | 46.893 | ug/l | 100 |
| 83) tert-Butylbenzene | 13.435 | 119 | 452999 | 44.954 | ug/l | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.476 | 105 | 550727 | 46.521 | ug/l | 100 |
| 85) sec-Butylbenzene | 13.612 | 105 | 653679 | 46.767 | ug/l | 100 |
| 86) p-Isopropyltoluene | 13.723 | 119 | 548528 | 47.611 | ug/l | 100 |
| 87) 1,3-Dichlorobenzene | 13.729 | 146 | 279645 | 47.249 | ug/l | 100 |
| 88) 1,4-Dichlorobenzene | 13.812 | 146 | 280378 | 47.032 | ug/l | 100 |
| 89) n-Butylbenzene | 14.053 | 91 | 492941 | 48.271 | ug/l | 100 |
| 90) Hexachloroethane | 14.329 | 117 | 90009 | 46.447 | ug/l | 100 |
| 91) 1,2-Dichlorobenzene | 14.106 | 146 | 270731 | 47.181 | ug/l | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.717 | 75 | 38625 | 46.887 | ug/l | 100 |
| 93) 1,2,4-Trichlorobenzene | 15.388 | 180 | 132919 | 48.375 | ug/l | 100 |
| 94) Hexachlorobutadiene | 15.500 | 225 | 48694 | 46.947 | ug/l | 100 |
| 95) Naphthalene | 15.635 | 128 | 464685 | 47.708 | ug/l | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.835 | 180 | 122910 | 47.249 | ug/l | 100 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041525\
Data File : VN086281.D
Acq On : 15 Apr 2025 13:51
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carbone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

Quant Time: Apr 16 03:57:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 16 03:42:50 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041525\
 Data File : VN086281.D
 Acq On : 15 Apr 2025 13:51
 Operator : JC\MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

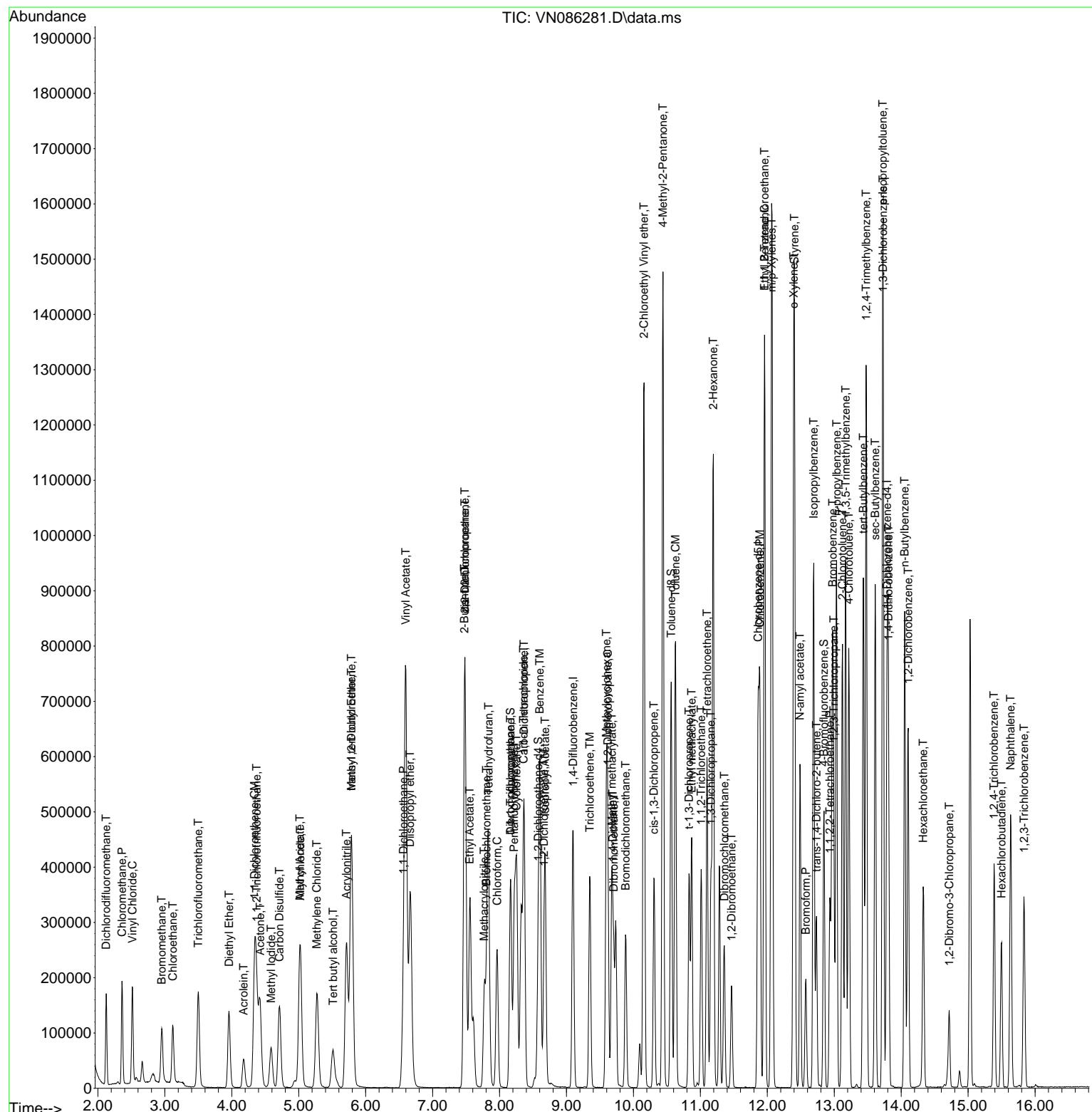
Quant Time: Apr 16 03:57:59 2025

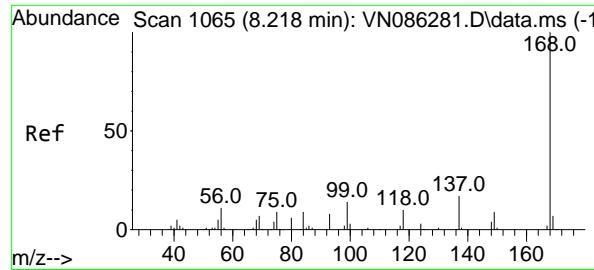
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 03:42:50 2025
 Response via : Initial Calibration

Instrument :
 MSVOA_N
ClientSampleId :
 VSTDICCC050

Manual Integrations
APPROVED

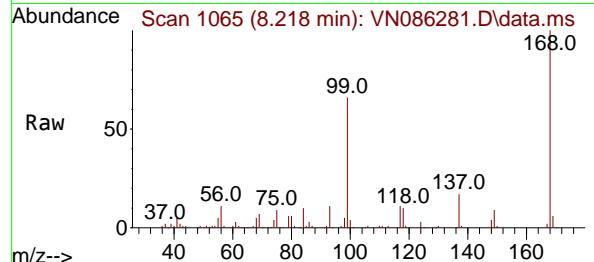
Reviewed By :John Carlane 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025





#1
 Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 8.218 min Scan# 1
 Delta R.T. -0.000 min
 Lab File: VN086281.D
 Acq: 15 Apr 2025 13:51

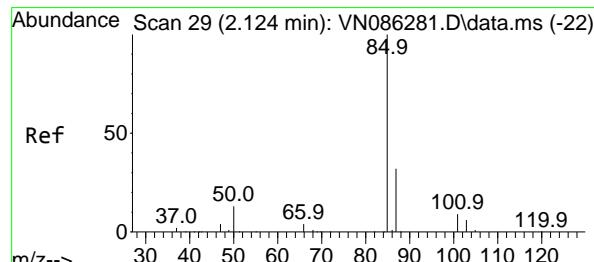
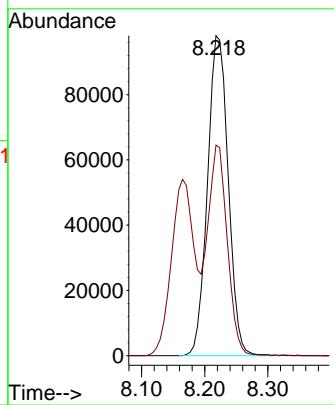
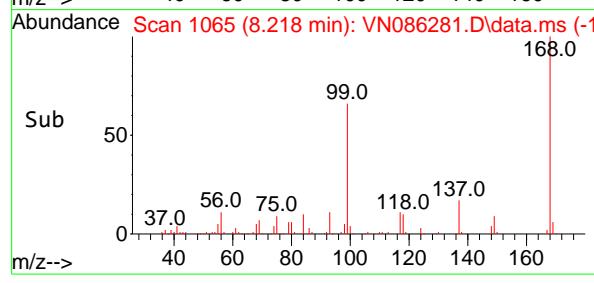
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050



Tgt Ion:168 Resp: 223463
 Ion Ratio Lower Upper
 168 100
 99 65.6 52.5 78.7

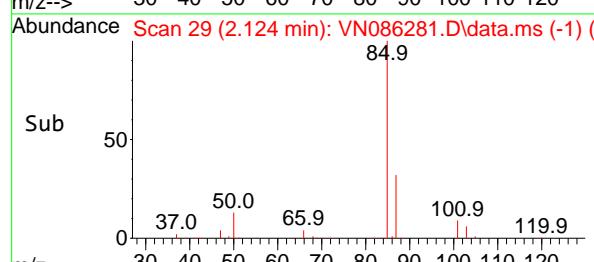
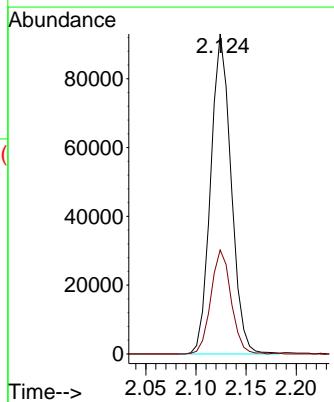
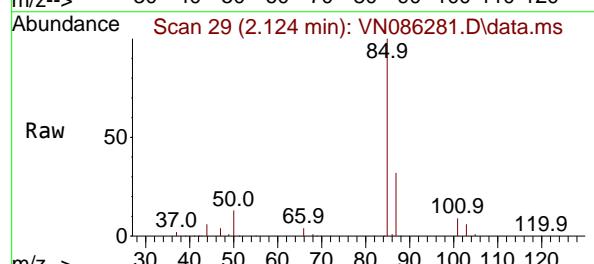
Manual Integrations APPROVED

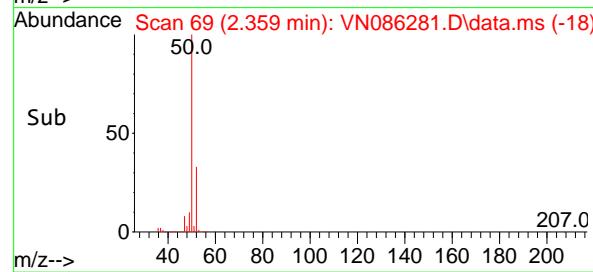
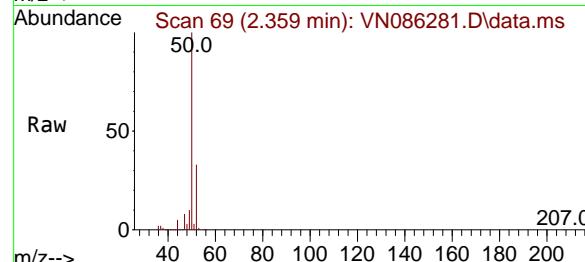
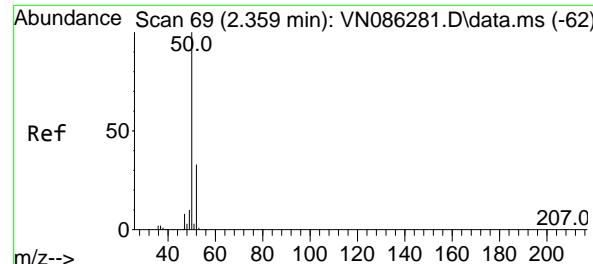
Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025



#2
 Dichlorodifluoromethane
 Concen: 49.836 ug/l
 RT: 2.124 min Scan# 29
 Delta R.T. 0.000 min
 Lab File: VN086281.D
 Acq: 15 Apr 2025 13:51

Tgt Ion: 85 Resp: 132017
 Ion Ratio Lower Upper
 85 100
 87 32.5 16.3 48.8



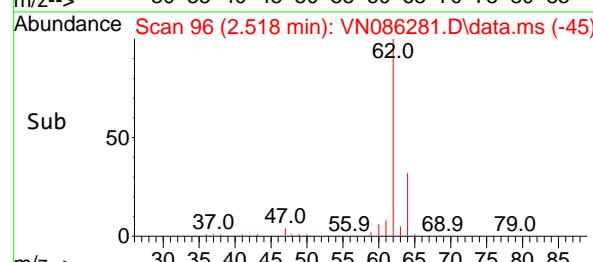
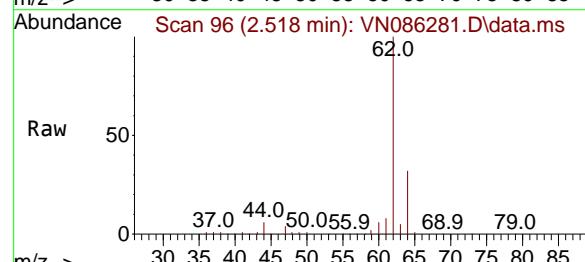
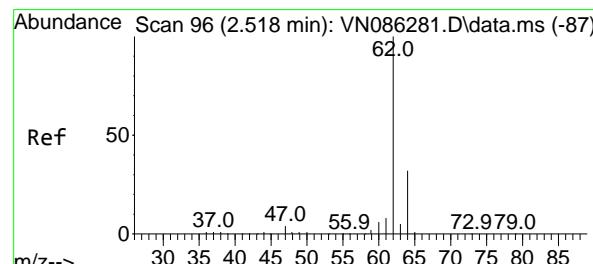
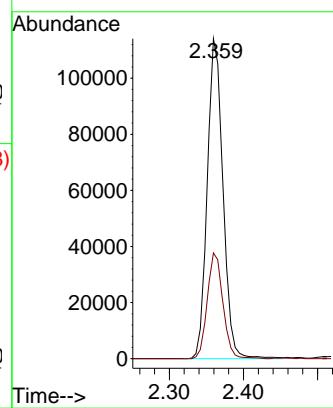


#3
 Chloromethane
 Concen: 43.783 ug/l
 RT: 2.359 min Scan# 6
 Delta R.T. 0.000 min
 Lab File: VN086281.D
 Acq: 15 Apr 2025 13:51

Instrument : MSVOA_N
 ClientSampleId : VSTDICCC050

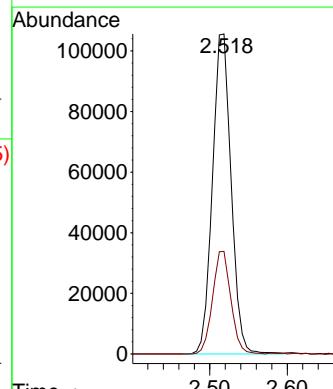
Manual Integrations
APPROVED

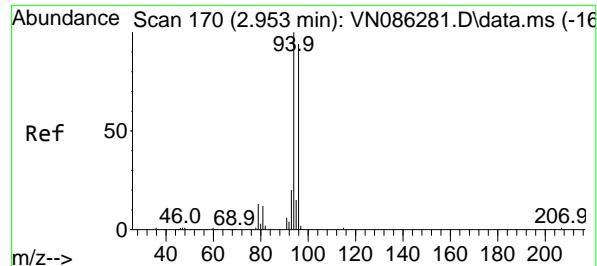
Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025



#4
 Vinyl Chloride
 Concen: 48.092 ug/l
 RT: 2.518 min Scan# 96
 Delta R.T. 0.000 min
 Lab File: VN086281.D
 Acq: 15 Apr 2025 13:51

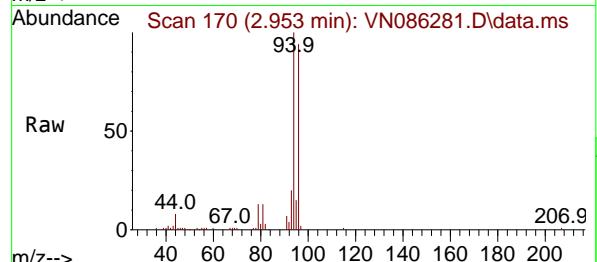
Tgt Ion: 62 Resp: 176686
 Ion Ratio Lower Upper
 62 100
 64 32.0 25.6 38.4





#5
Bromomethane
Concen: 48.135 ug/l
RT: 2.953 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

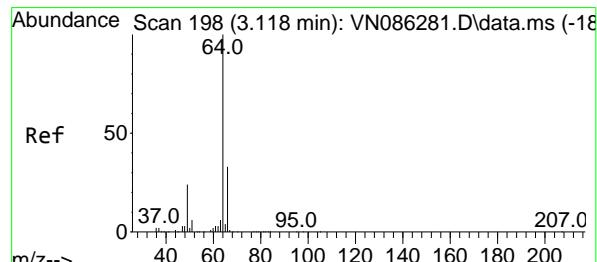
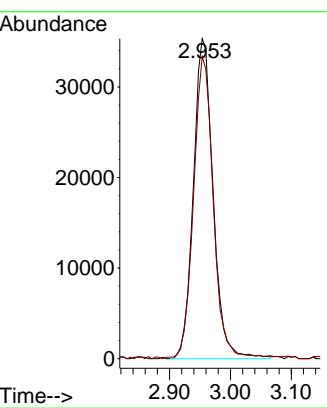
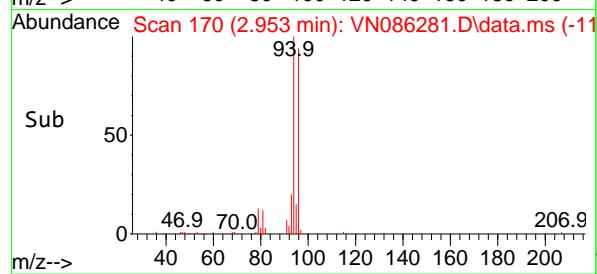
Instrument : MSVOA_N
ClientSampleId : VSTDICCC050



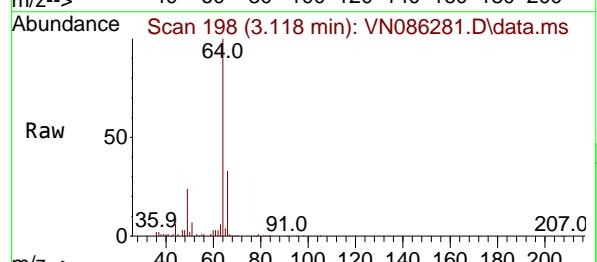
Tgt Ion: 94 Resp: 79540
Ion Ratio Lower Upper
94 100
96 94.0 75.2 112.8

Manual Integrations APPROVED

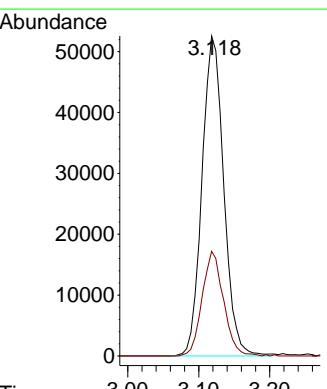
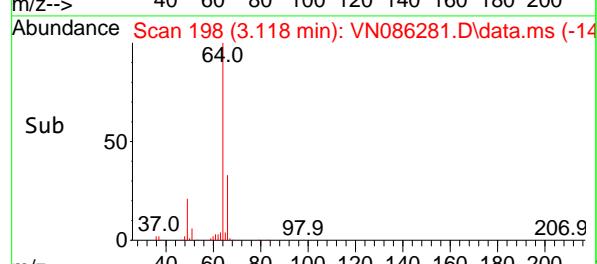
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

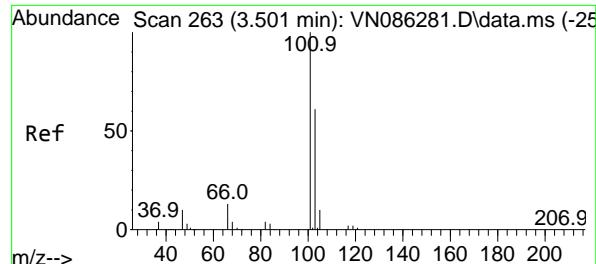


#6
Chloroethane
Concen: 45.437 ug/l
RT: 3.118 min Scan# 198
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51



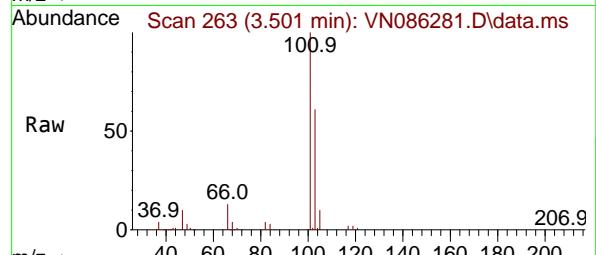
Tgt Ion: 64 Resp: 111725
Ion Ratio Lower Upper
64 100
66 32.7 26.2 39.2





#7
Trichlorofluoromethane
Concen: 47.395 ug/l
RT: 3.501 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

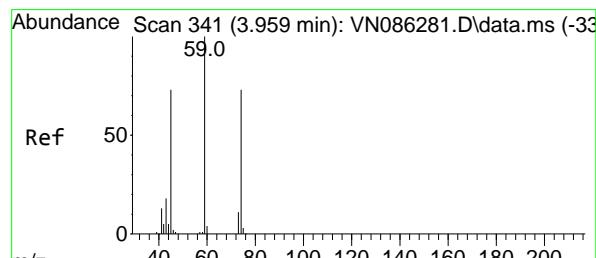
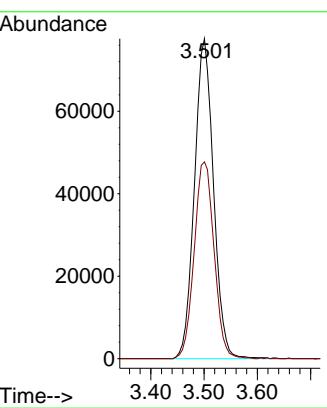
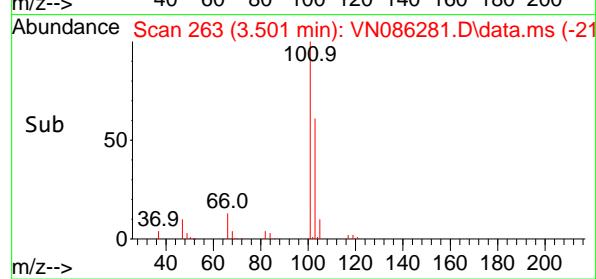
Instrument : MSVOA_N
ClientSampleId : VSTDICCC050



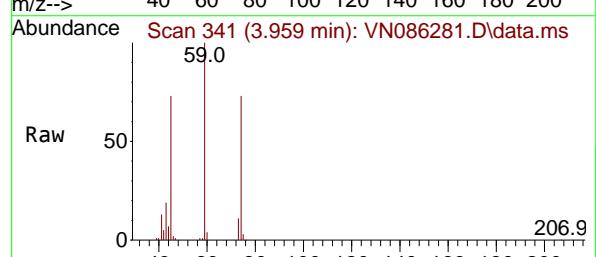
Tgt Ion:101 Resp: 192870
Ion Ratio Lower Upper
101 100
103 61.5 49.2 73.8

Manual Integrations
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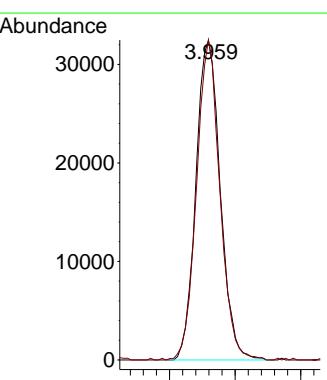
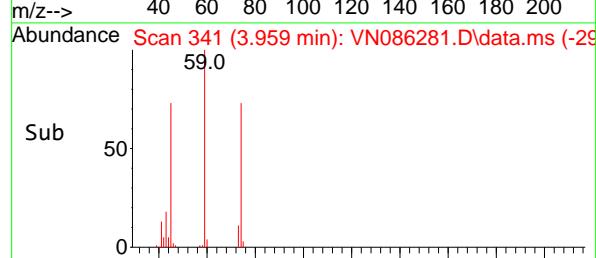
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

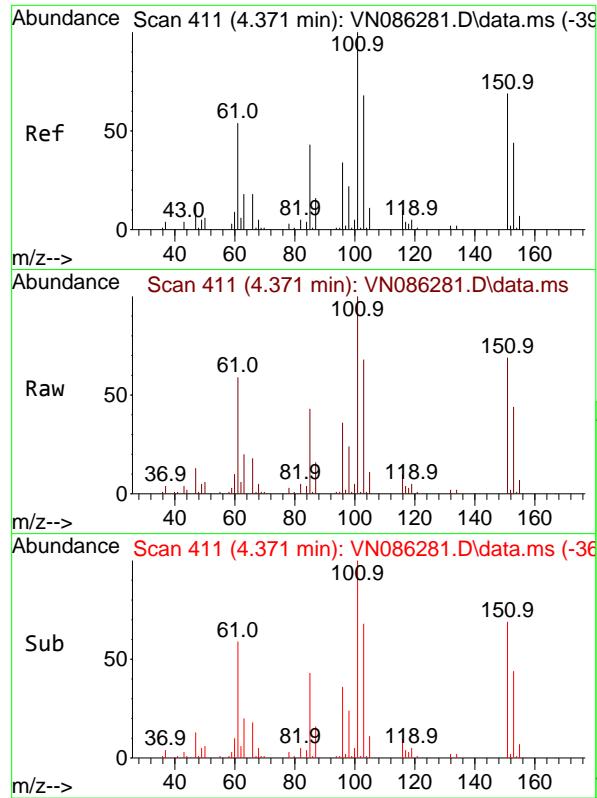


#8
Diethyl Ether
Concen: 47.092 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51



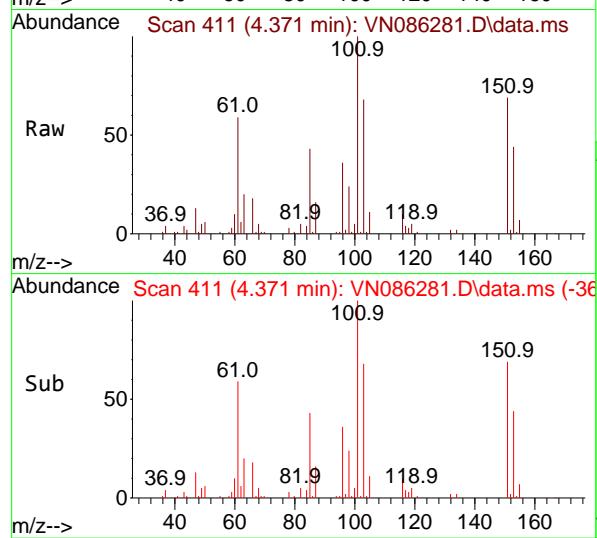
Tgt Ion: 74 Resp: 83664
Ion Ratio Lower Upper
74 100
45 96.1 48.0 144.2





#9
1,1,2-Trichlorotrifluoroethane
Concen: 47.719 ug/l
RT: 4.371 min Scan# 4
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

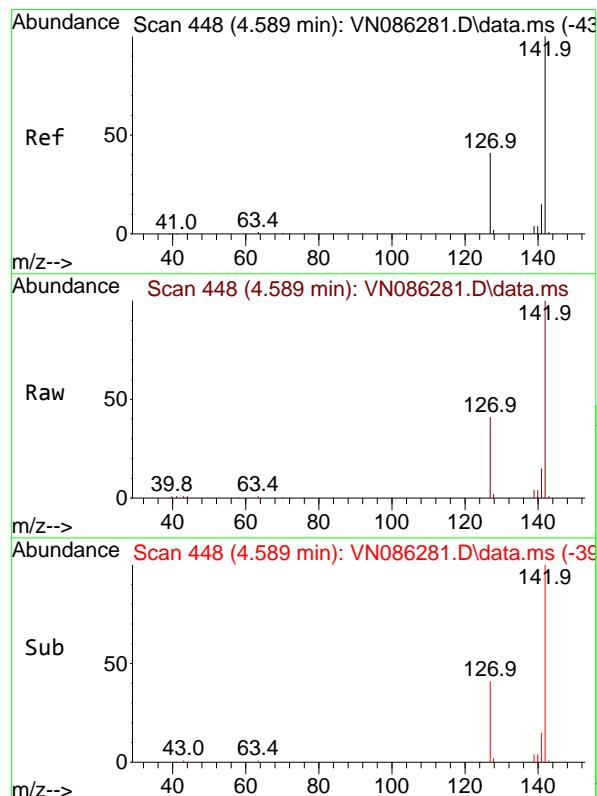
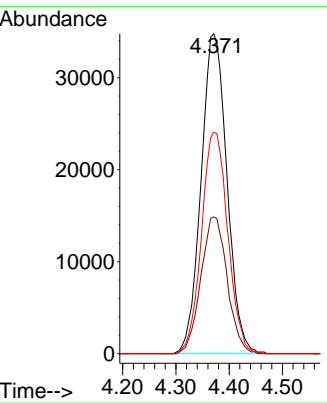
Instrument : MSVOA_N
ClientSampleId : VSTDICCC050



Tgt Ion:101 Resp: 117473
Ion Ratio Lower Upper
101 100
85 43.4 34.7 52.1
151 70.1 56.1 84.1

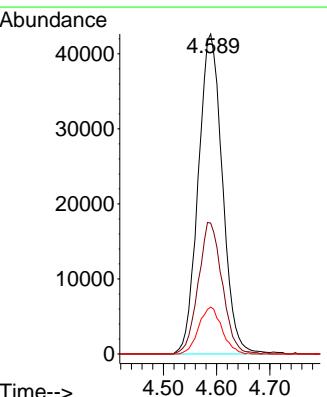
Manual Integrations
APPROVED

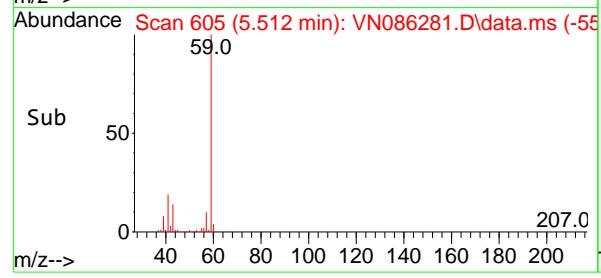
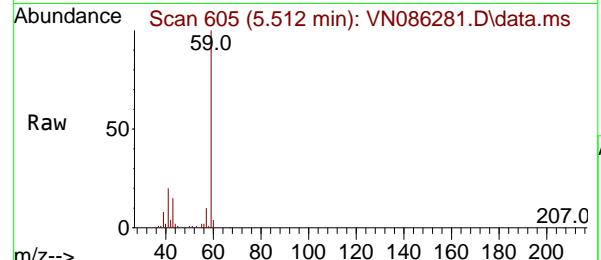
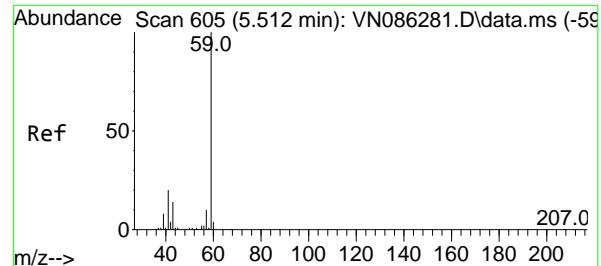
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#10
Methyl Iodide
Concen: 49.427 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

Tgt Ion:142 Resp: 133779
Ion Ratio Lower Upper
142 100
127 40.9 32.7 49.1
141 14.6 11.7 17.5





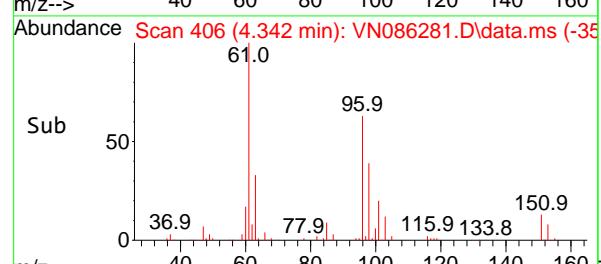
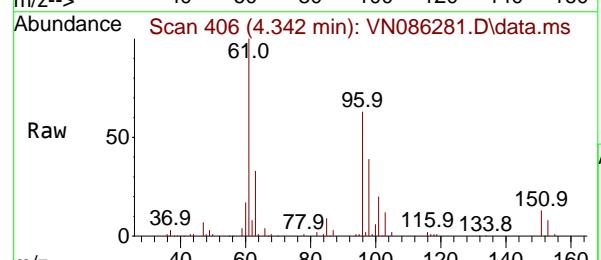
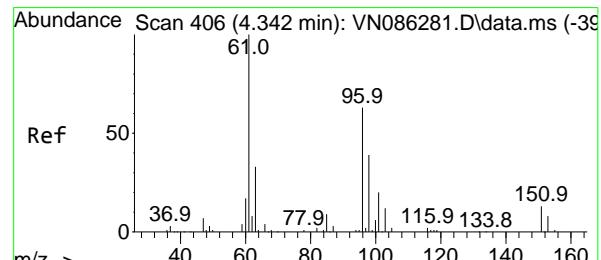
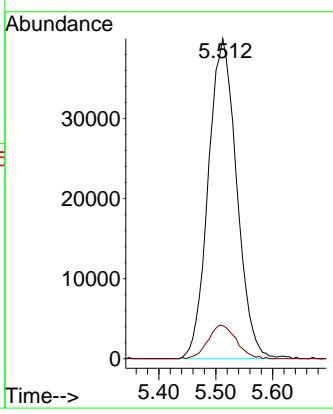
#11

Tert butyl alcohol
Concen: 234.659 ug/l
RT: 5.512 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

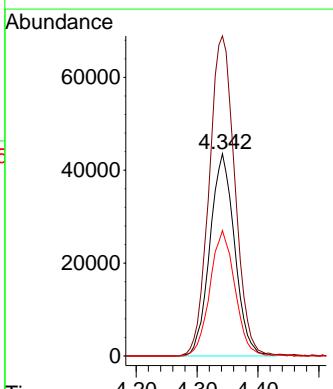
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

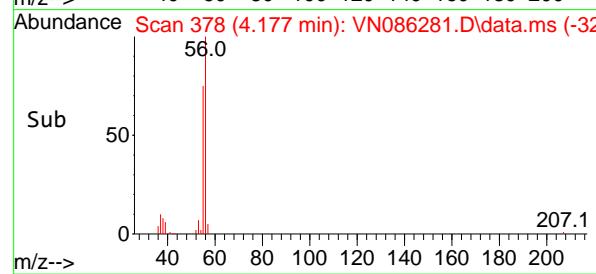
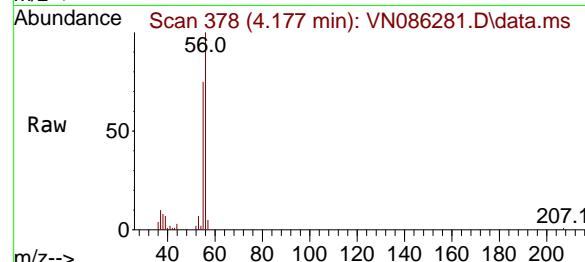
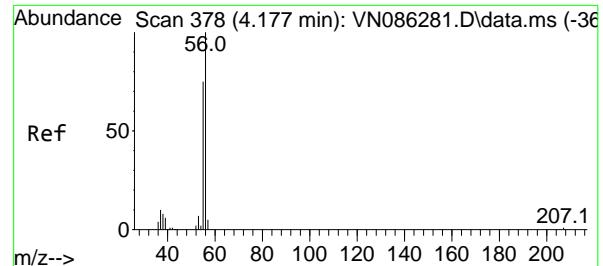


#12

1,1-Dichloroethene
Concen: 46.805 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

Tgt Ion: 96 Resp: 123106
Ion Ratio Lower Upper
96 100
61 158.2 126.6 189.8
98 62.0 49.6 74.4





#13

Acrolein

Concen: 246.717 ug/l

RT: 4.177 min Scan# 3

Delta R.T. -0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

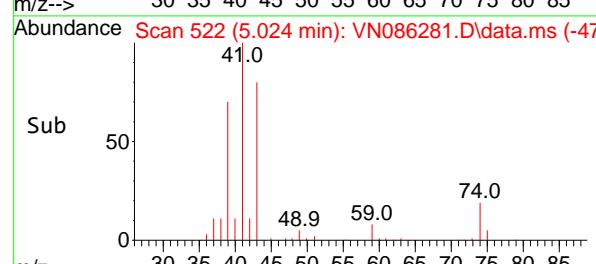
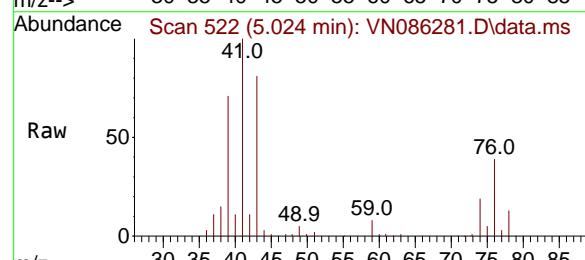
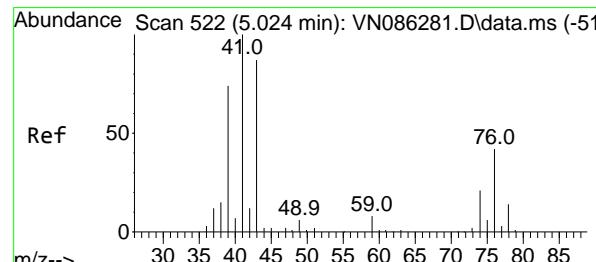
Instrument:

MSVOA_N

ClientSampleId :

VSTDICCC050

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#14

Allyl chloride

Concen: 44.409 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

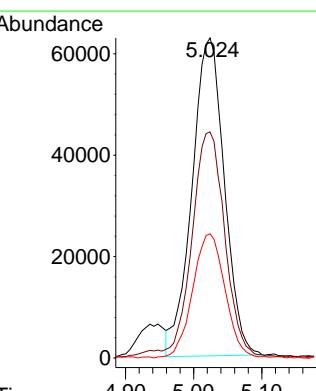
Tgt Ion: 41 Resp: 207525

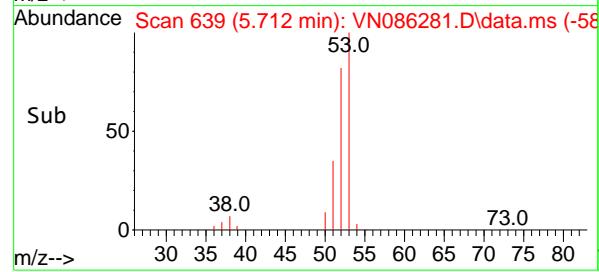
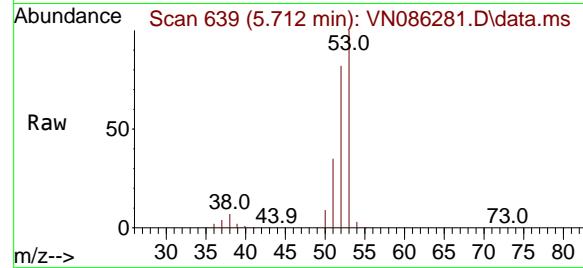
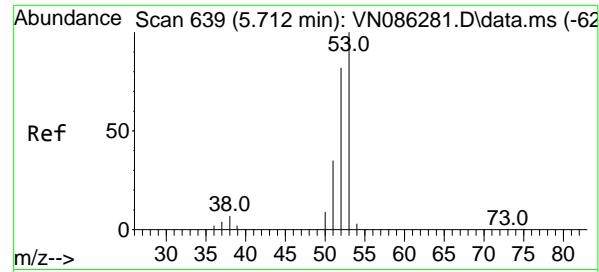
Ion Ratio Lower Upper

41 100

39 74.0 59.2 88.8

76 39.0 31.2 46.8





#15

Acrylonitrile

Concen: 242.632 ug/l

RT: 5.712 min Scan# 6

Delta R.T. 0.000 min

Lab File: VN086281.D

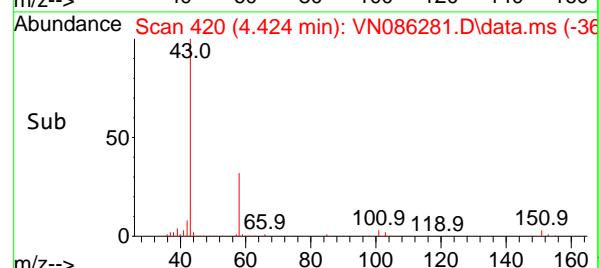
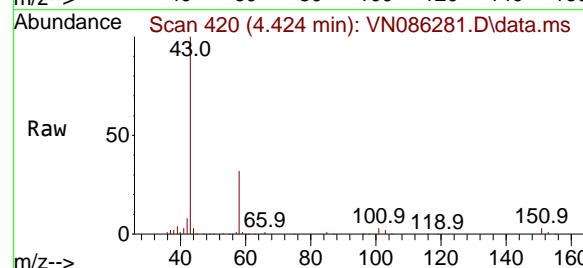
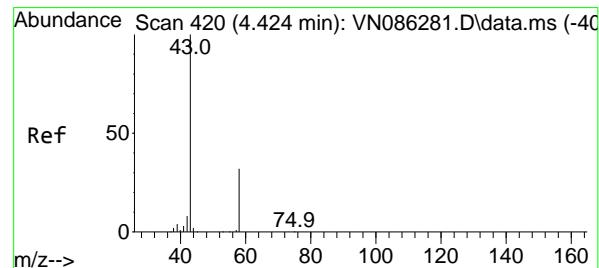
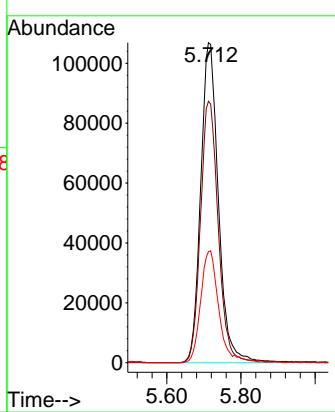
Acq: 15 Apr 2025 13:51

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

**Manual Integrations
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Supervised By :Semsettin Yesilyurt 04/16/2025

#16

Acetone

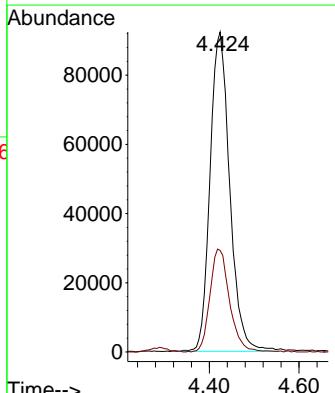
Concen: 250.761 ug/l

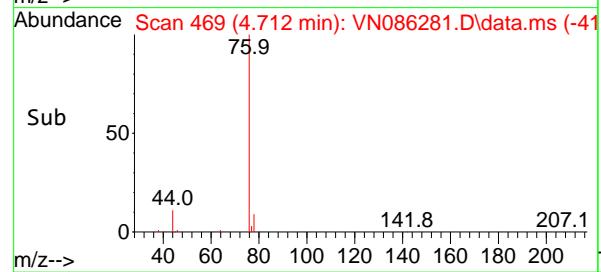
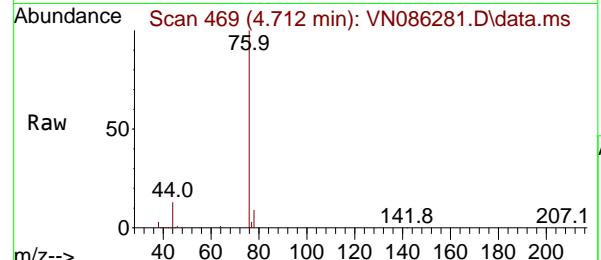
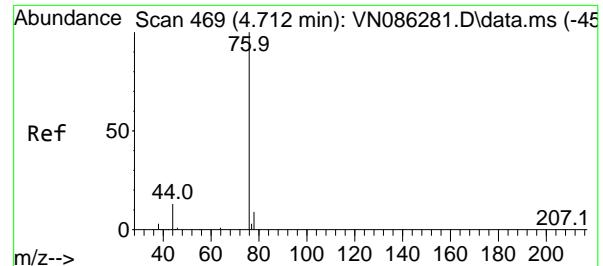
RT: 4.424 min Scan# 420

Delta R.T. -0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

Tgt Ion: 43 Resp: 280935
Ion Ratio Lower Upper
43 100
58 31.6 25.3 37.9



#17

Carbon Disulfide

Concen: 44.205 ug/l

RT: 4.712 min Scan# 4

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

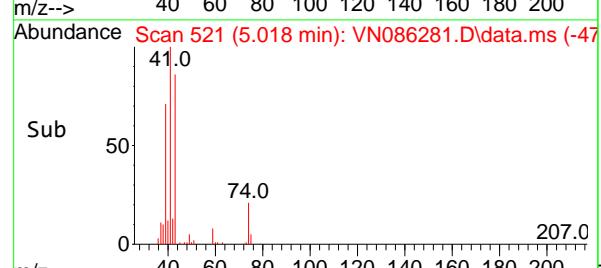
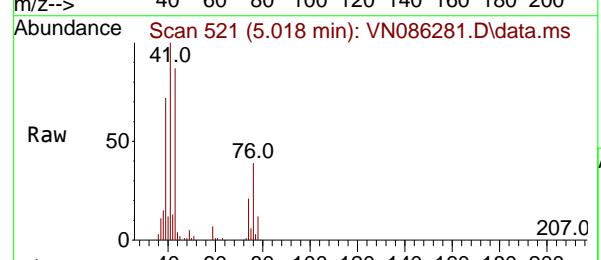
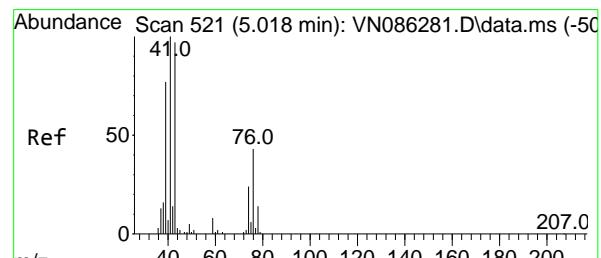
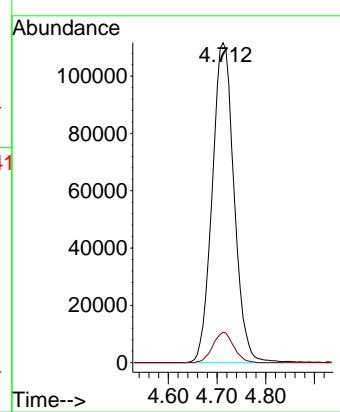
Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

**Manual Integrations
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 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#18

Methyl Acetate

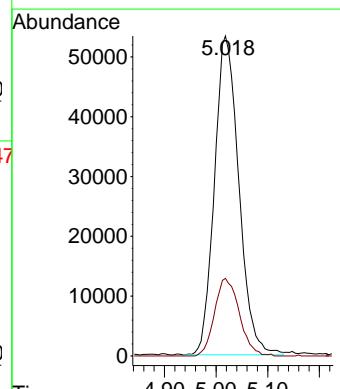
Concen: 44.886 ug/l

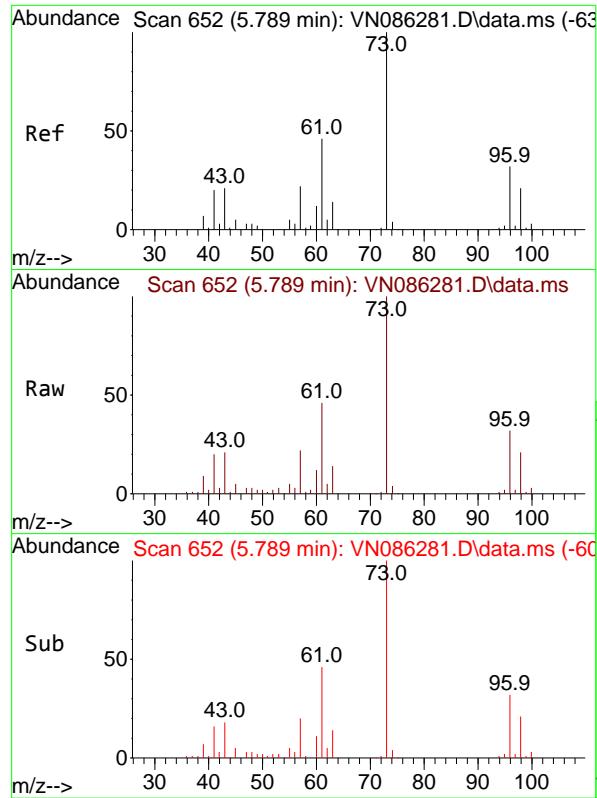
RT: 5.018 min Scan# 521

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

 Tgt Ion: 43 Resp: 174600
 Ion Ratio Lower Upper
 43 100
 74 24.7 19.8 29.6




#19

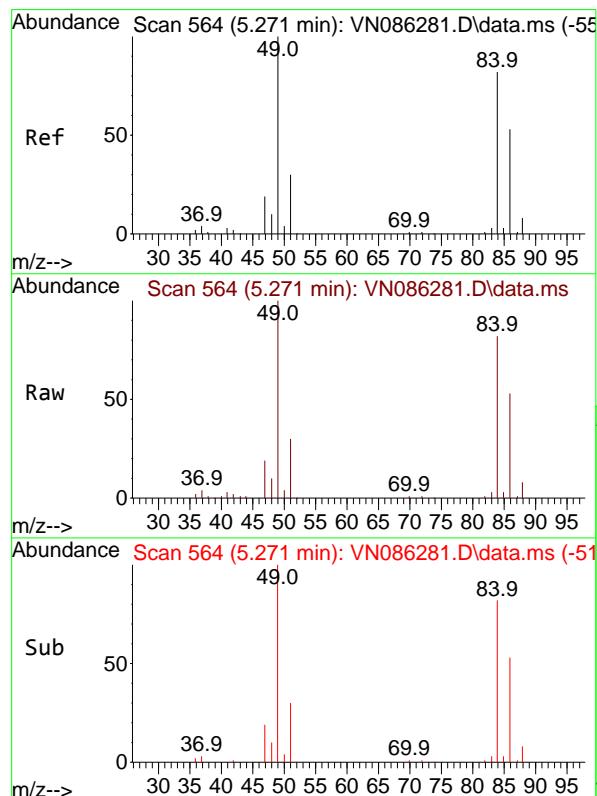
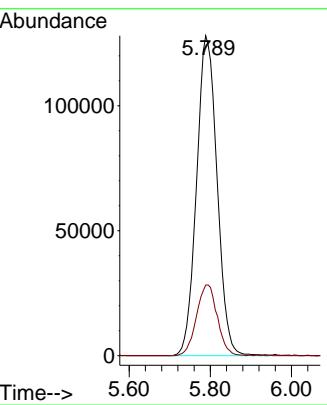
Methyl tert-butyl Ether
Concen: 46.453 ug/l
RT: 5.789 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

Instrument : MSVOA_N
ClientSampleId : VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

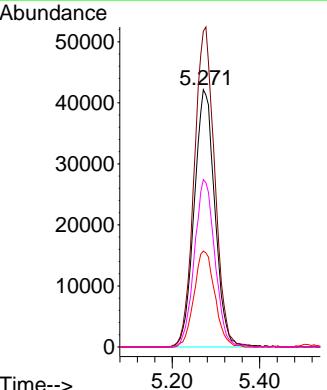
Tgt Ion: 73 Resp: 44912
Ion Ratio Lower Upper
73 100
57 22.0 17.6 26.4

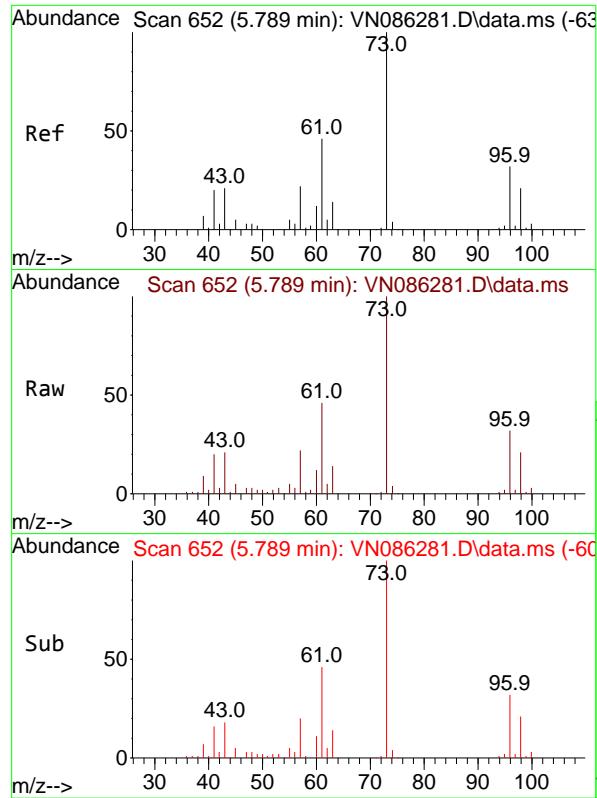


#20

Methylene Chloride
Concen: 46.163 ug/l
RT: 5.271 min Scan# 564
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

Tgt Ion: 84 Resp: 138293
Ion Ratio Lower Upper
84 100
49 122.7 98.2 147.2
51 37.2 29.8 44.6
86 65.0 52.0 78.0



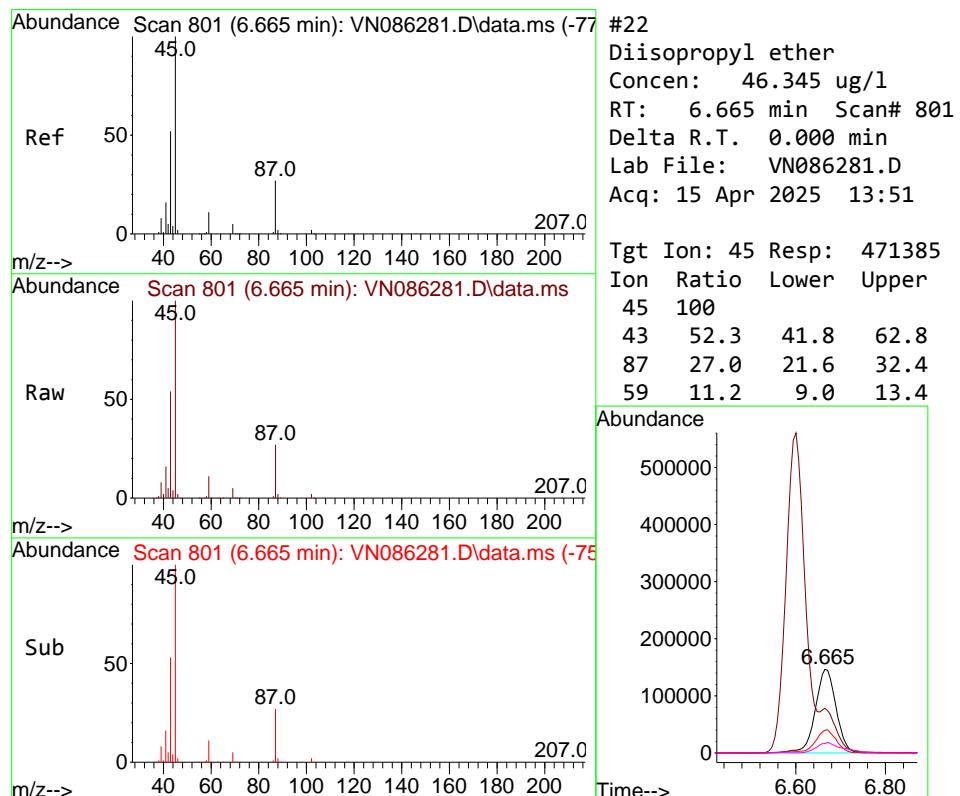
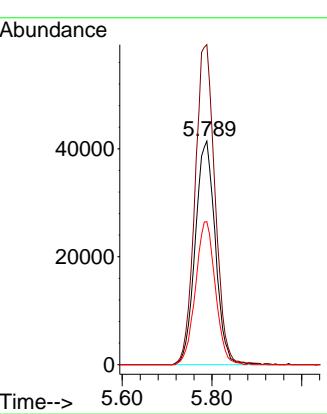


#21
trans-1,2-Dichloroethene
Concen: 46.696 ug/l
RT: 5.789 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

Instrument : MSVOA_N
ClientSampleId : VSTDICCC050

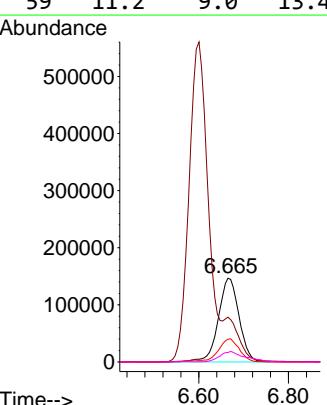
Manual Integrations
APPROVED

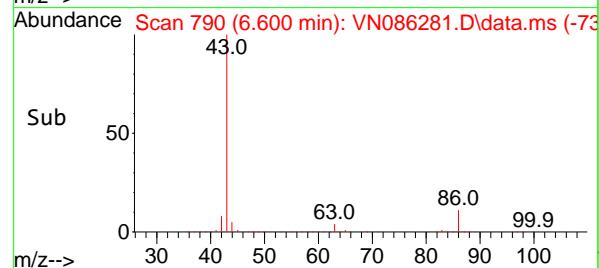
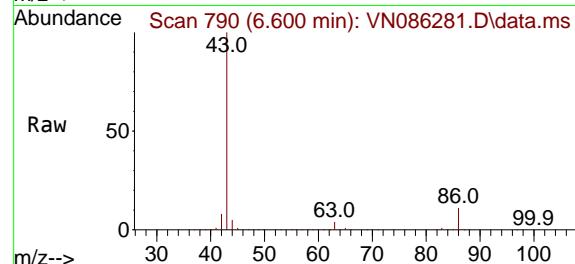
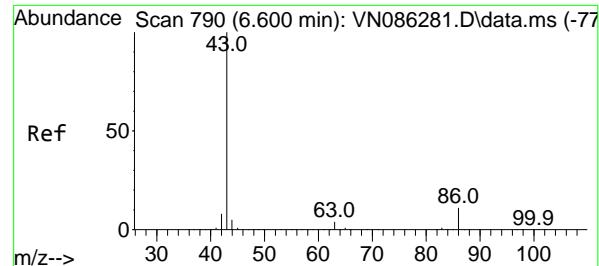
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#22
Diisopropyl ether
Concen: 46.345 ug/l
RT: 6.665 min Scan# 801
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

Tgt Ion: 45 Resp: 471385
Ion Ratio Lower Upper
45 100
43 52.3 41.8 62.8
87 27.0 21.6 32.4
59 11.2 9.0 13.4





#23

Vinyl Acetate

Concen: 233.153 ug/l

RT: 6.600 min Scan# 7

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

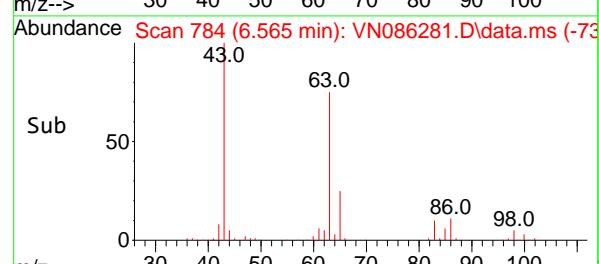
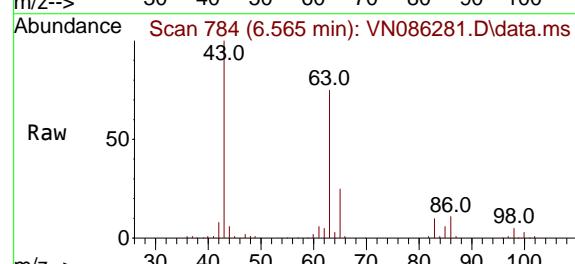
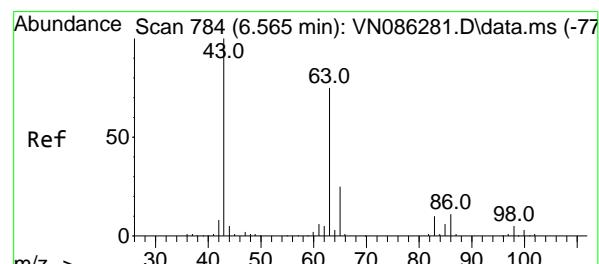
Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#24

1,1-Dichloroethane

Concen: 47.310 ug/l

RT: 6.565 min Scan# 784

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

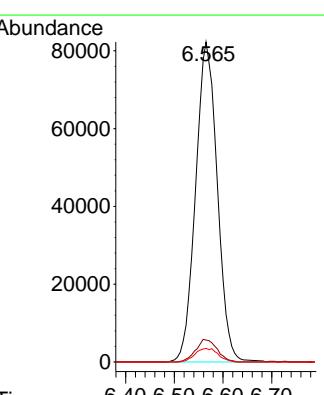
Tgt Ion: 63 Resp: 253896

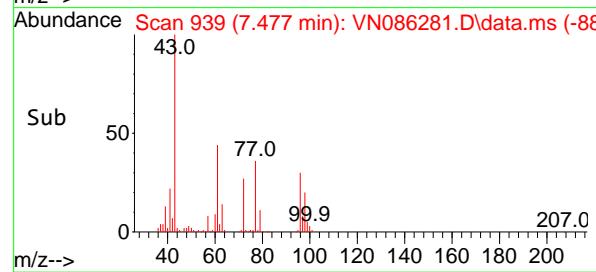
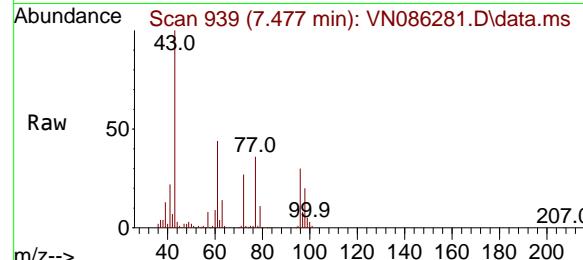
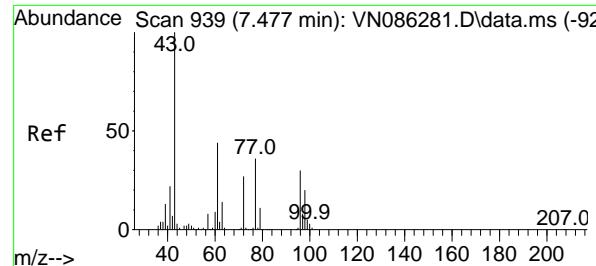
Ion Ratio Lower Upper

63 100

98 6.8 3.4 10.2

100 4.3 2.1 6.5





#25

2-Butanone

Concen: 235.633 ug/l

RT: 7.477 min Scan# 9

Instrument :

MSVOA_N

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 47528

Ion Ratio Lower Upper

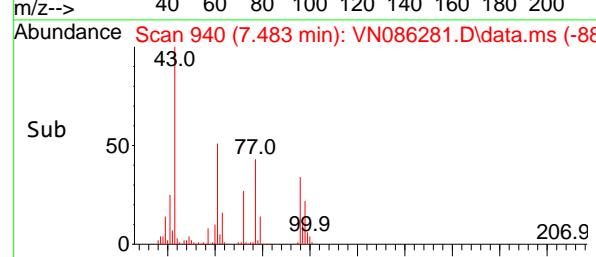
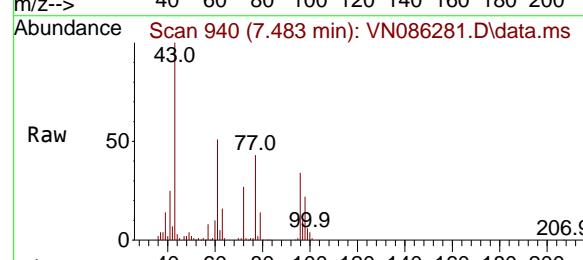
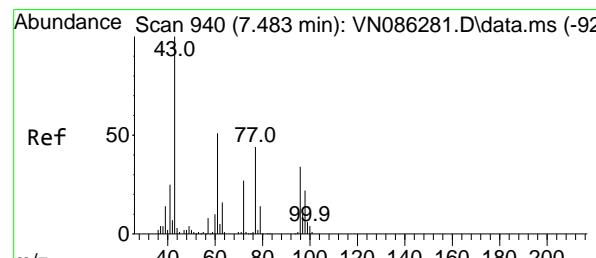
43 100

72 27.1 21.7 32.5

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#26

2,2-Dichloropropane

Concen: 45.729 ug/l

RT: 7.483 min Scan# 940

Delta R.T. 0.000 min

Lab File: VN086281.D

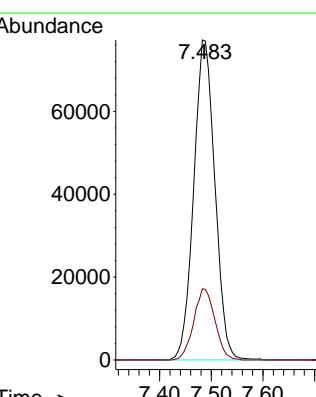
Acq: 15 Apr 2025 13:51

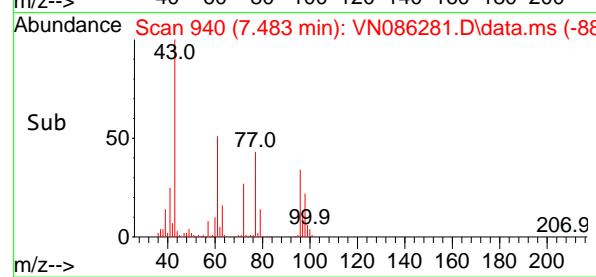
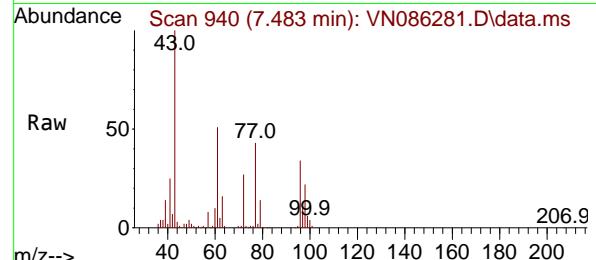
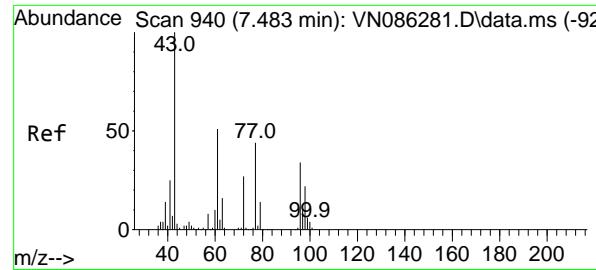
Tgt Ion: 77 Resp: 219735

Ion Ratio Lower Upper

77 100

97 22.3 11.2 33.5





#27

cis-1,2-Dichloroethene

Concen: 46.722 ug/l

RT: 7.483 min Scan# 9

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

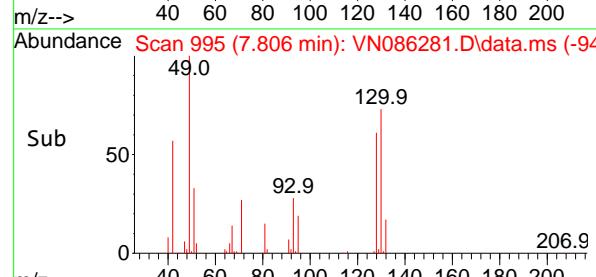
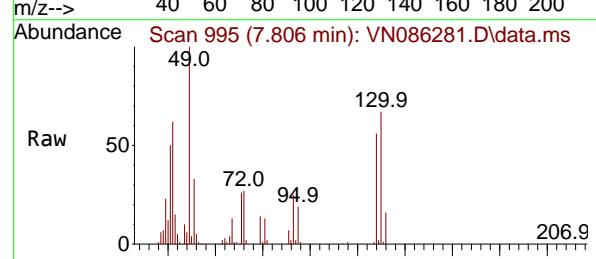
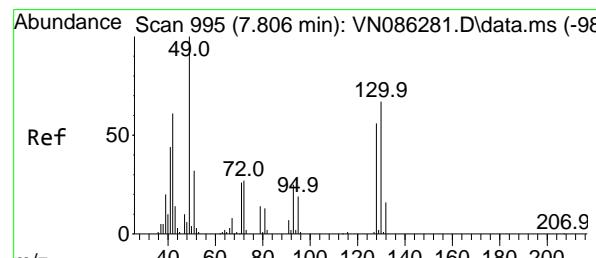
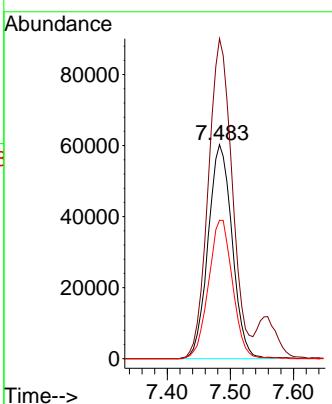
Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#28

Bromochloromethane

Concen: 48.660 ug/l

RT: 7.806 min Scan# 995

Delta R.T. 0.000 min

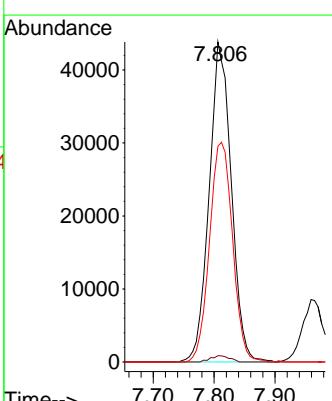
Lab File: VN086281.D

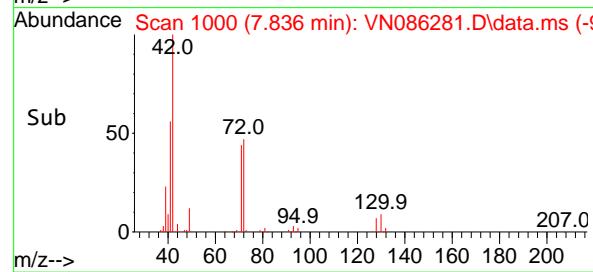
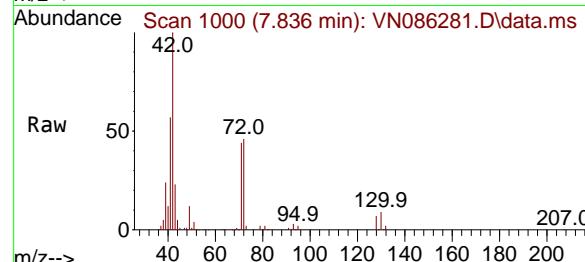
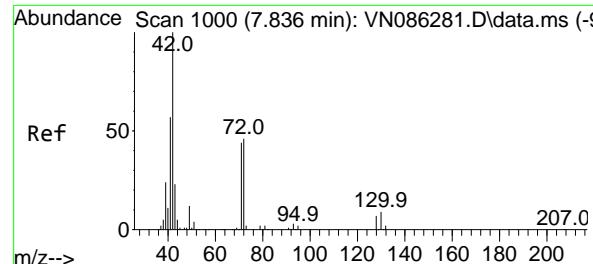
Acq: 15 Apr 2025 13:51

Tgt Ion: 49 Resp: 110726

Ion Ratio Lower Upper

| | | | |
|-----|------|------|------|
| 49 | 100 | | |
| 129 | 1.7 | 0.0 | 3.4 |
| 130 | 71.4 | 57.1 | 85.7 |





#29

Tetrahydrofuran

Concen: 232.739 ug/l

RT: 7.836 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

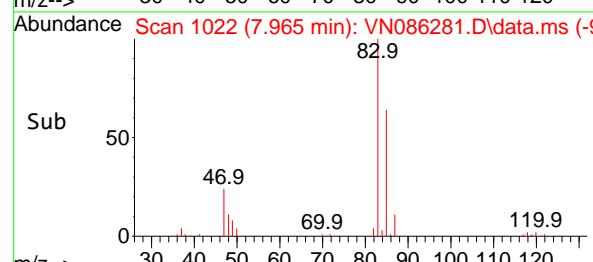
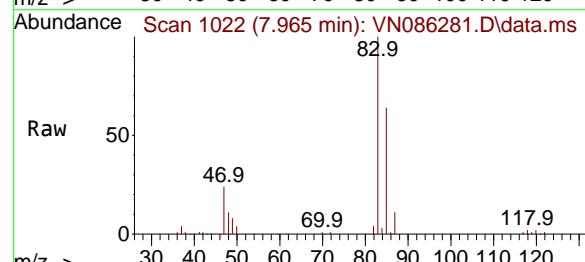
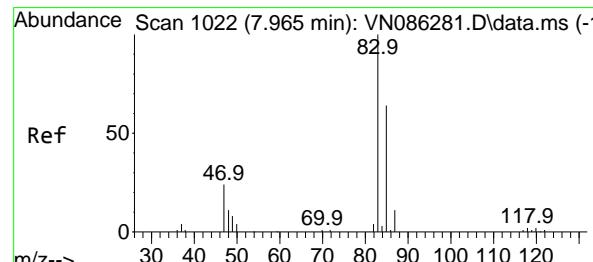
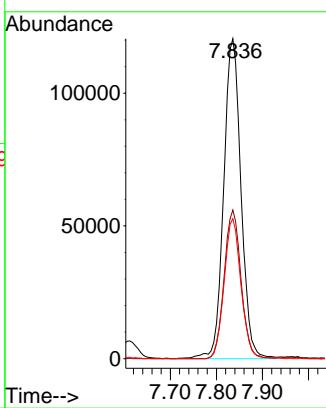
Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#30

Chloroform

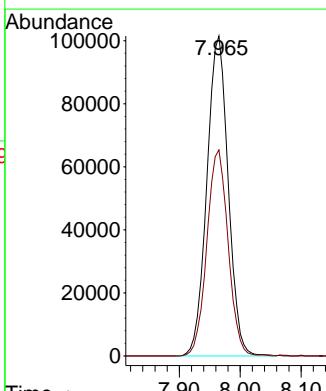
Concen: 46.823 ug/l

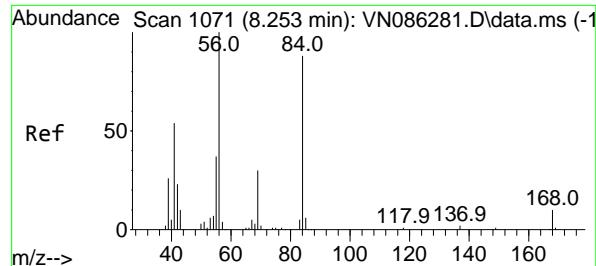
RT: 7.965 min Scan# 1022

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

 Tgt Ion: 83 Resp: 246843
 Ion Ratio Lower Upper
 83 100
 85 64.4 51.5 77.3




#31

Cyclohexane

Concen: 45.343 ug/l

RT: 8.253 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086281.D

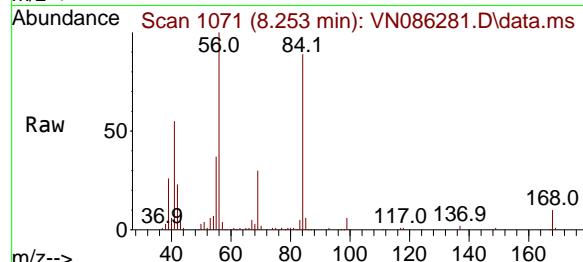
Acq: 15 Apr 2025 13:51

Instrument :

MSVOA_N

ClientSampleId :

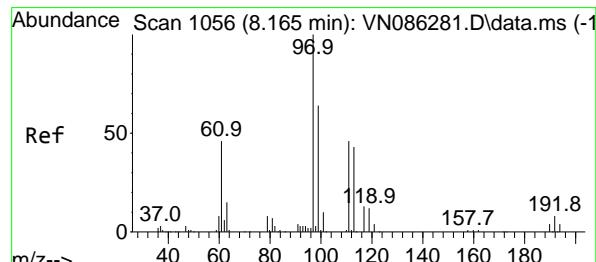
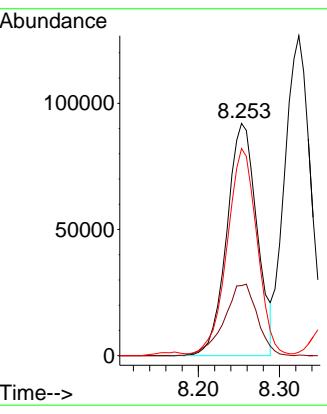
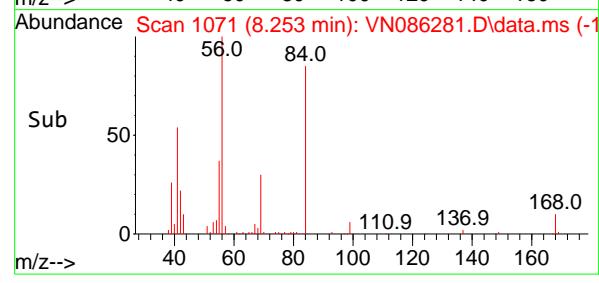
VSTDICCC050



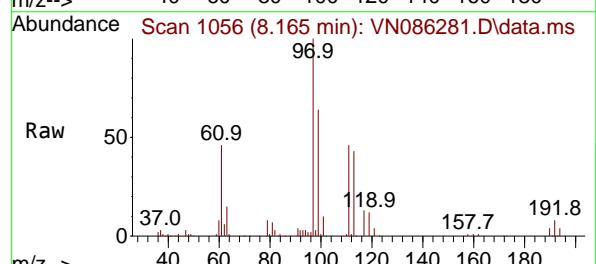
| Tgt | Ion: | 56 | 100 | Ion | Ratio: | Lower | Upper |
|-----|------|-----|------|-----|--------|-------|-------|
| | | 100 | | | | | |
| | | 69 | 30.2 | | 24.2 | 36.2 | |
| | | 84 | 87.9 | | 70.3 | 105.5 | |

Manual Integrations APPROVED

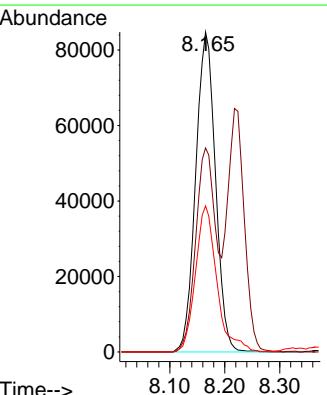
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

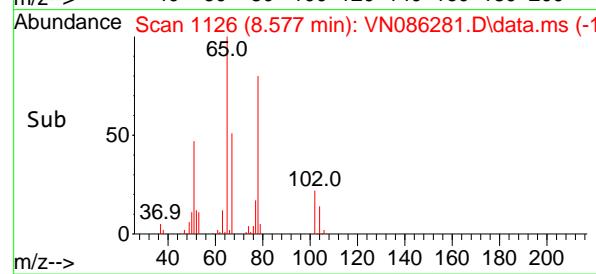
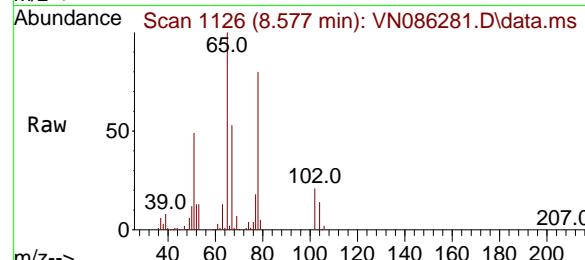
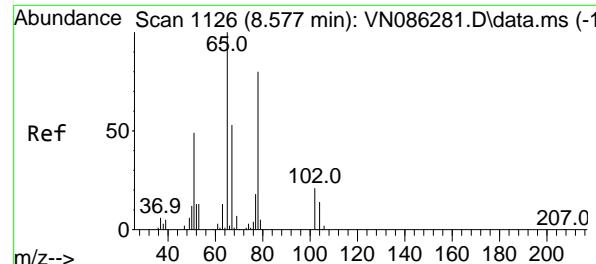


#32
1,1,1-Trichloroethane
Concen: 47.013 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51



| Tgt | Ion: | 97 | 100 | Ion | Ratio: | Lower | Upper |
|-----|------|-----|------|-----|--------|-------|-------|
| | | 100 | | | | | |
| | | 99 | 65.9 | | 52.7 | 79.1 | |
| | | 61 | 49.4 | | 39.5 | 59.3 | |





#33

1,2-Dichloroethane-d4

Concen: 49.609 ug/l

RT: 8.577 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

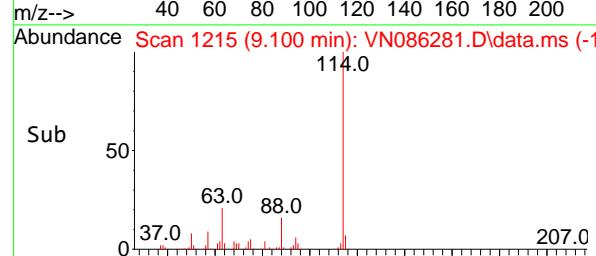
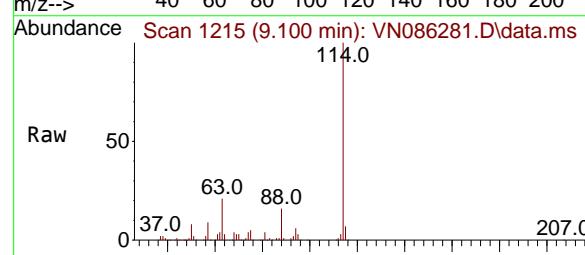
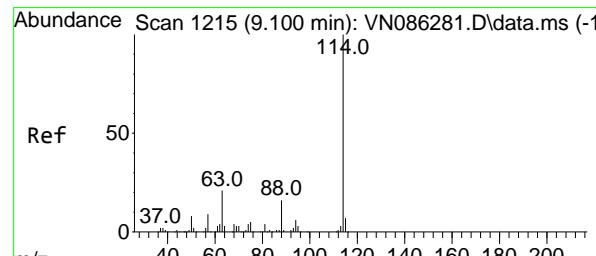
Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

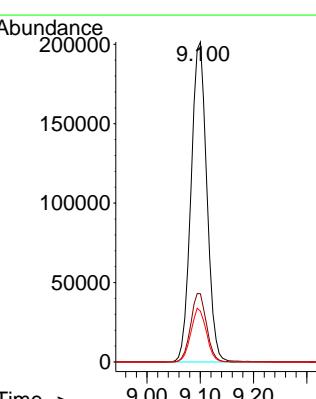
Lab File: VN086281.D

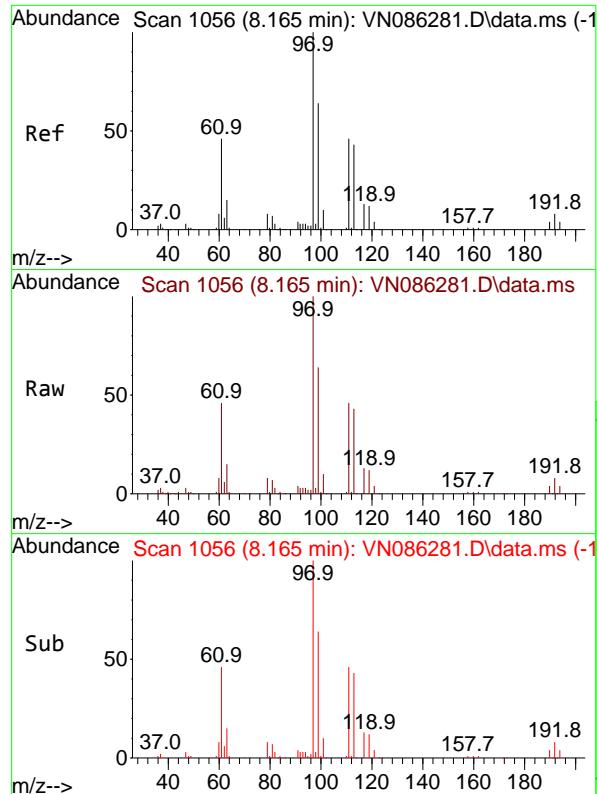
Acq: 15 Apr 2025 13:51

Tgt Ion:114 Resp: 413969

Ion Ratio Lower Upper

| | | | |
|-----|------|-----|------|
| 114 | 100 | | |
| 63 | 21.3 | 0.0 | 42.6 |
| 88 | 15.9 | 0.0 | 31.8 |



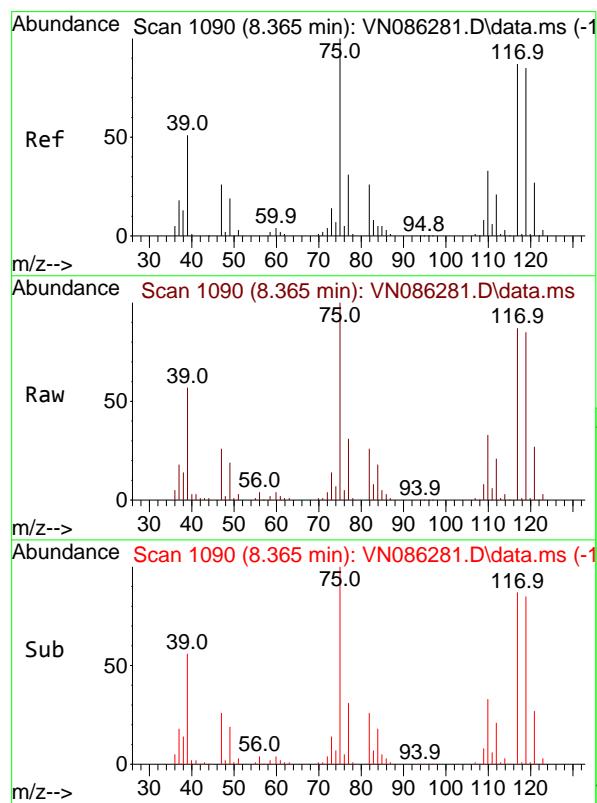
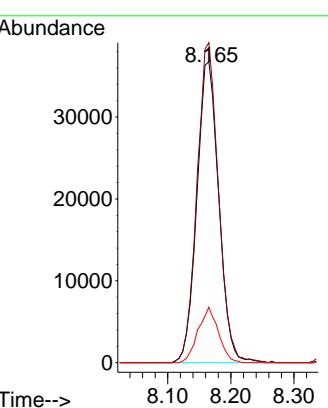


#35
Dibromofluoromethane
Concen: 46.238 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

Instrument : MSVOA_N
ClientSampleId : VSTDICCC050

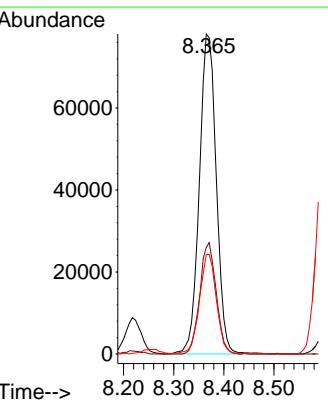
Manual Integrations
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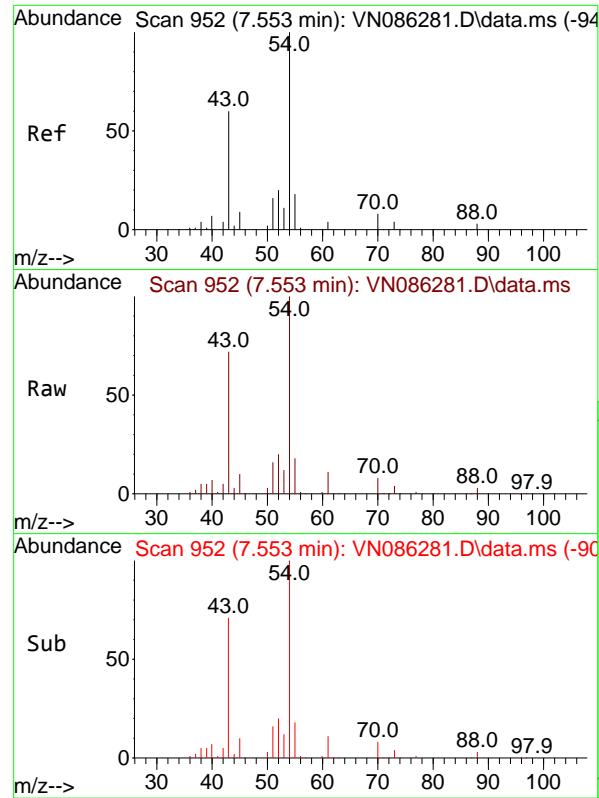
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#36
1,1-Dichloropropene
Concen: 47.752 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

Tgt Ion: 75 Resp: 183246
Ion Ratio Lower Upper
75 100
110 33.6 16.8 50.4
77 31.1 24.9 37.3





#37

Ethyl Acetate

Concen: 45.750 ug/l

RT: 7.553 min Scan# 9

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 184834

Ion Ratio Lower Upper

43 100

61 13.9 11.1 16.7

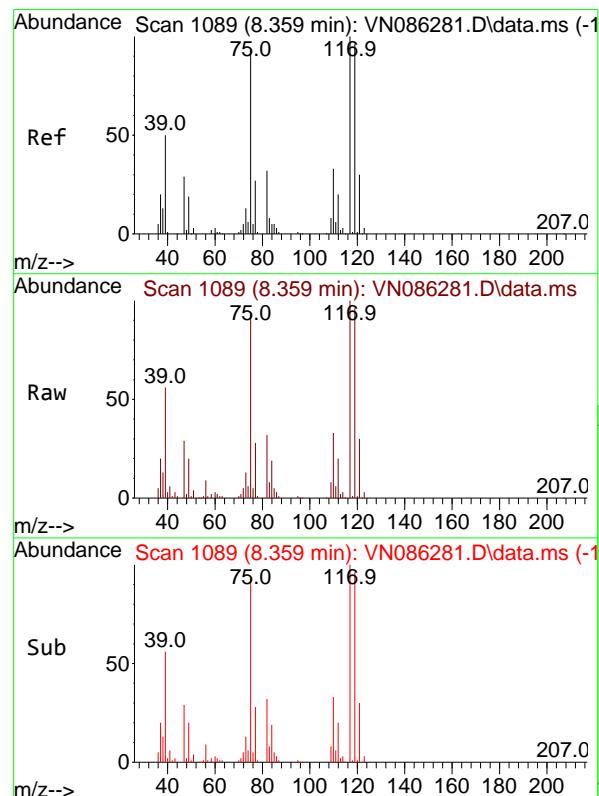
70 11.5 9.2 13.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#38

Carbon Tetrachloride

Concen: 47.912 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

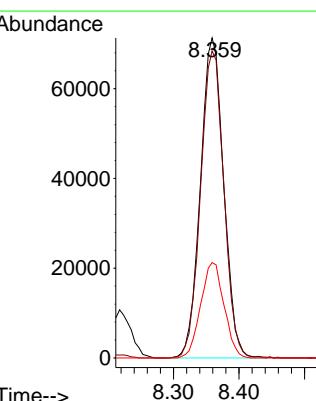
Tgt Ion:117 Resp: 175094

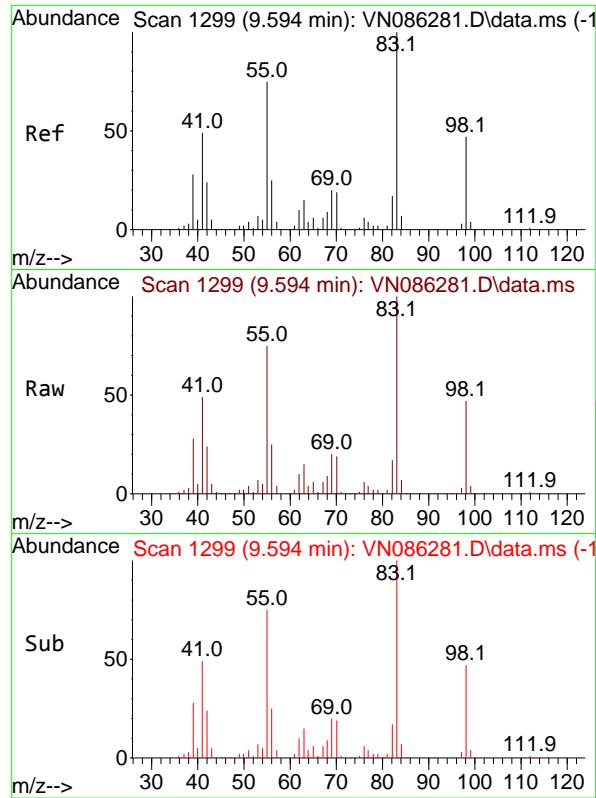
Ion Ratio Lower Upper

117 100

119 96.0 76.8 115.2

121 29.8 23.8 35.8





#39

Methylcyclohexane

Concen: 47.515 ug/l

RT: 9.594 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 83 Resp: 21672

Ion Ratio Lower Upper

83 100

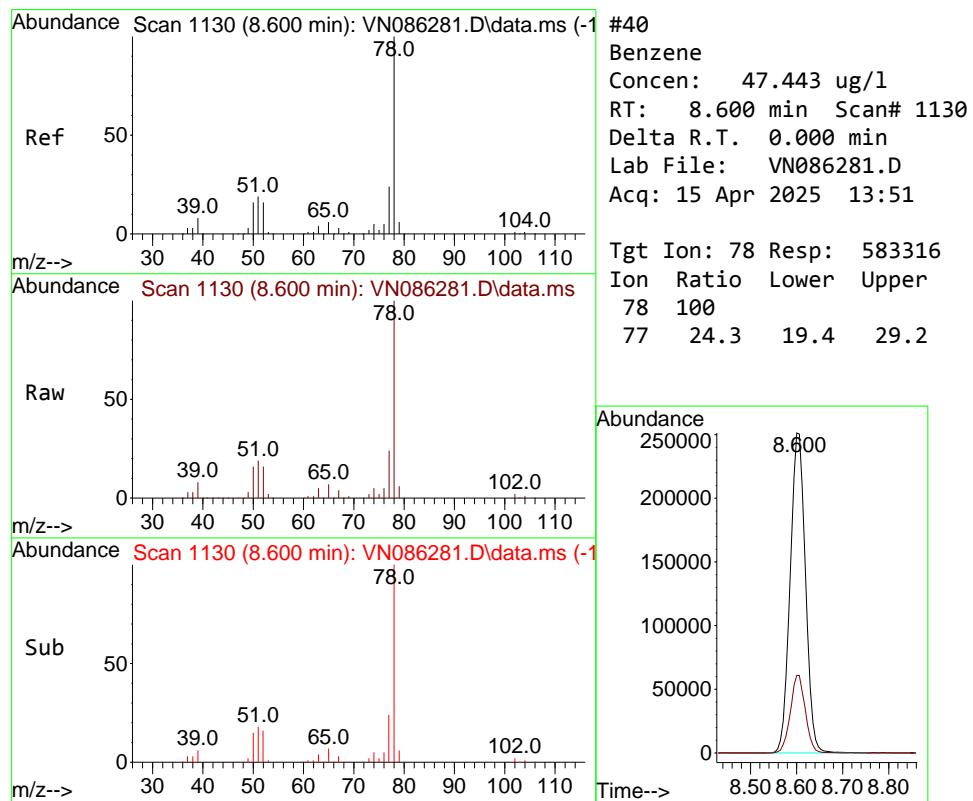
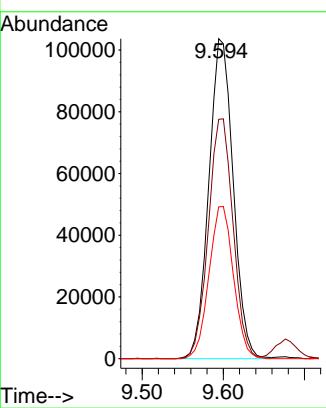
55 74.8 59.8 89.8

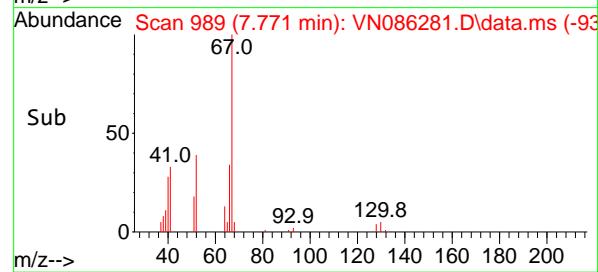
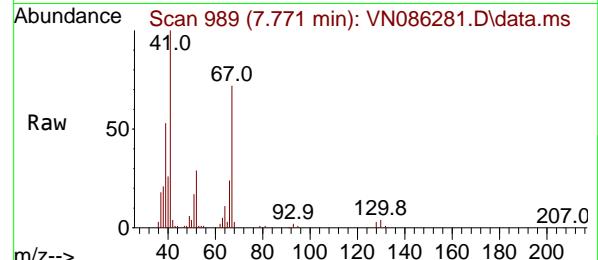
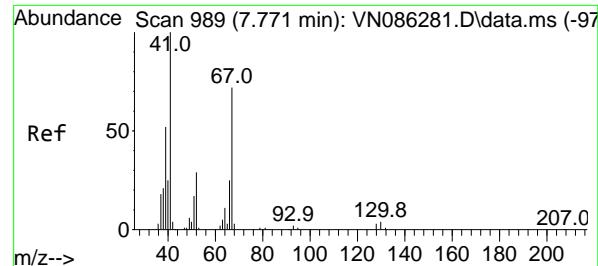
98 47.4 37.9 56.9

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025





#41

Methacrylonitrile

Concen: 46.643 ug/l

RT: 7.771 min Scan# 9

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

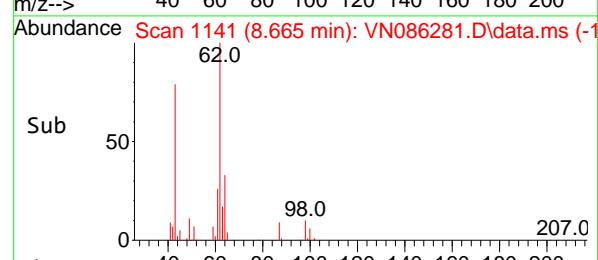
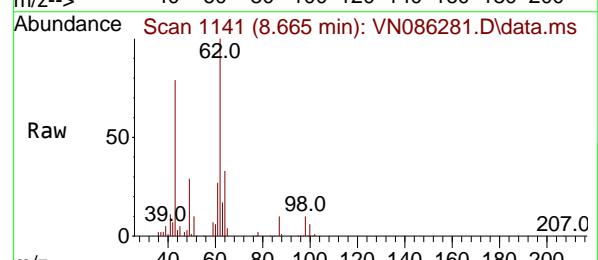
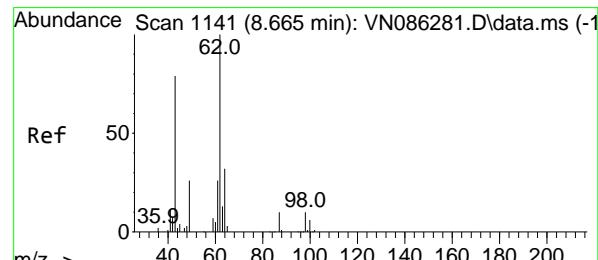
Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#42

1,2-Dichloroethane

Concen: 46.892 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. -0.000 min

Lab File: VN086281.D

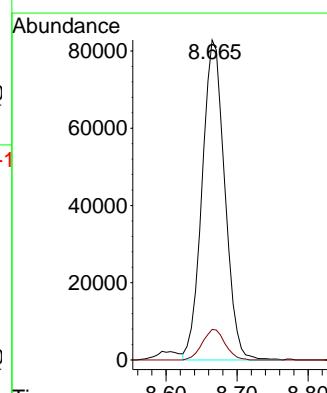
Acq: 15 Apr 2025 13:51

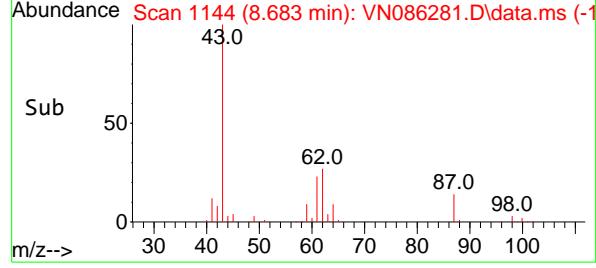
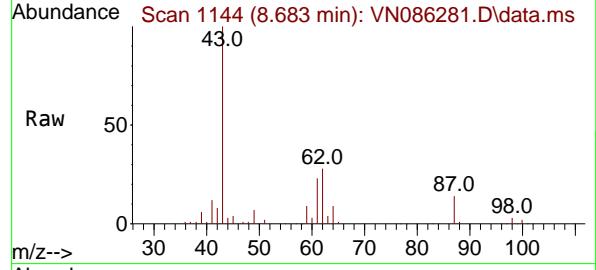
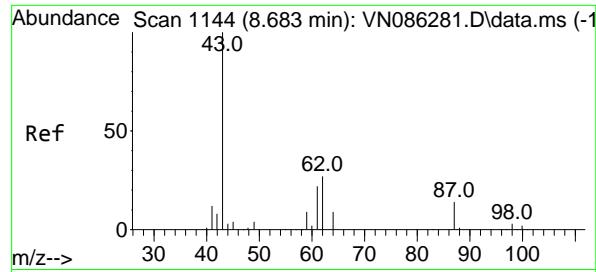
Tgt Ion: 62 Resp: 183854

Ion Ratio Lower Upper

62 100

98 9.6 0.0 19.2





#43

Isopropyl Acetate

Concen: 49.550 ug/l

RT: 8.683 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

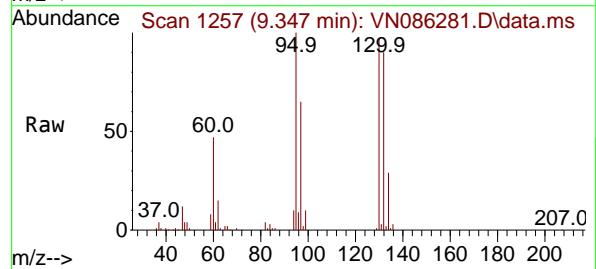
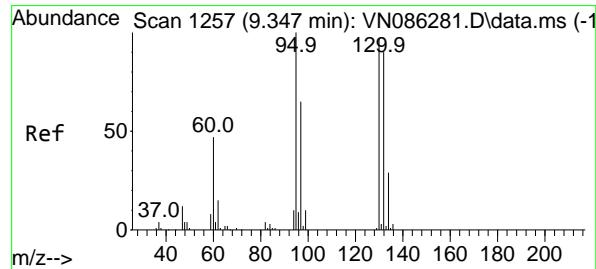
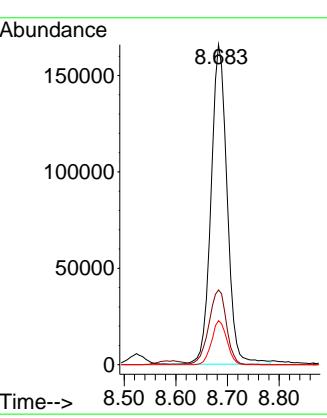
Instrument:

MSVOA_N

ClientSampleId :

VSTDICCC050

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#44

Trichloroethene

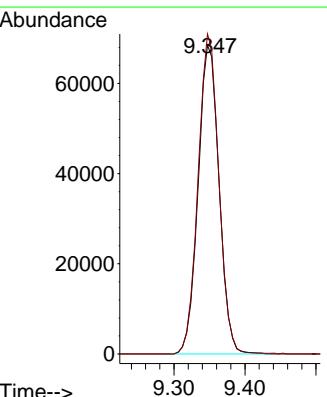
Concen: 48.039 ug/l

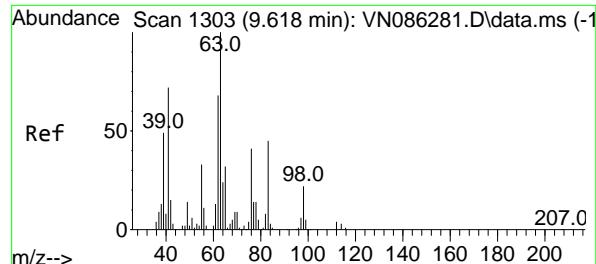
RT: 9.347 min Scan# 1257

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

 Tgt Ion:130 Resp: 139993
 Ion Ratio Lower Upper
 130 100
 95 103.6 0.0 207.2




#45

1,2-Dichloropropane

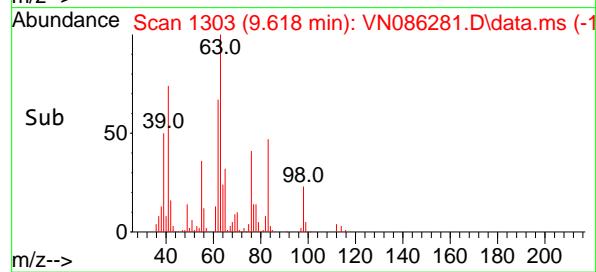
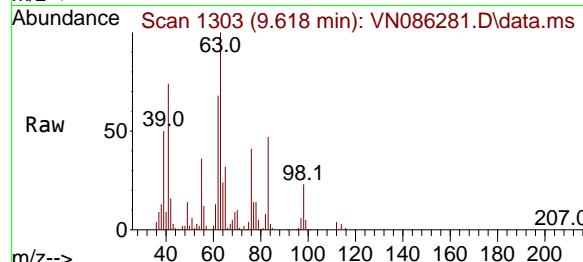
Concen: 48.011 ug/l

RT: 9.618 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51



Tgt Ion: 63 Resp: 144490

Ion Ratio Lower Upper

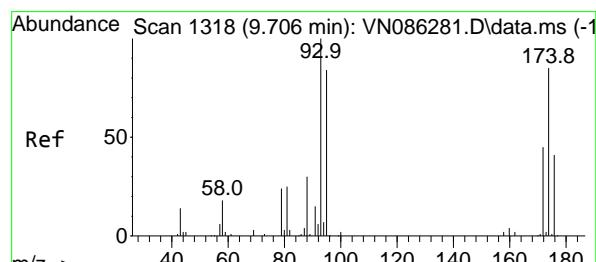
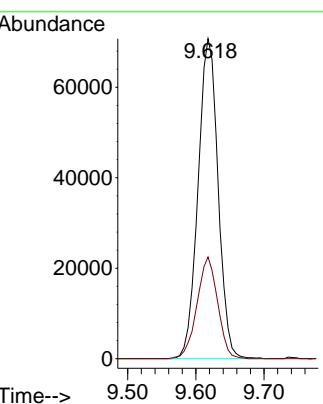
63 100

65 31.8 25.4 38.2

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#46

Dibromomethane

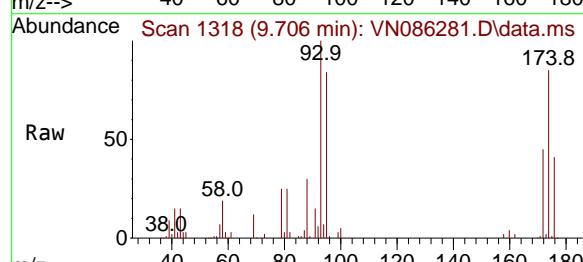
Concen: 49.002 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51



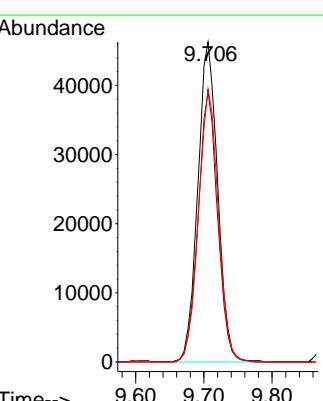
Tgt Ion: 93 Resp: 93965

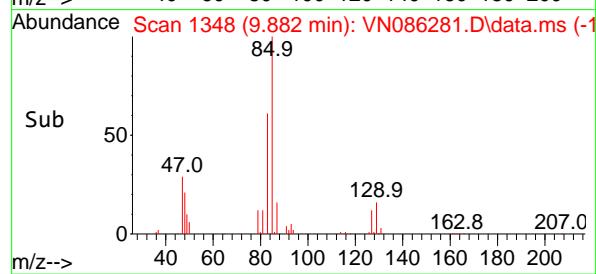
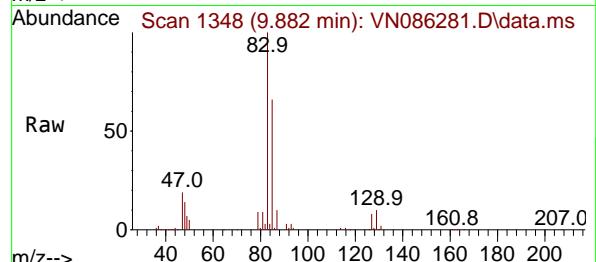
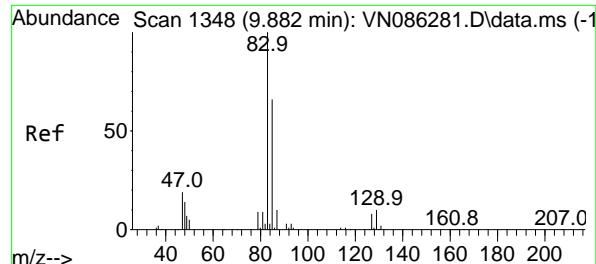
Ion Ratio Lower Upper

93 100

95 82.8 66.2 99.4

174 84.7 67.8 101.6





#47

Bromodichloromethane

Concen: 47.516 ug/l

RT: 9.882 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

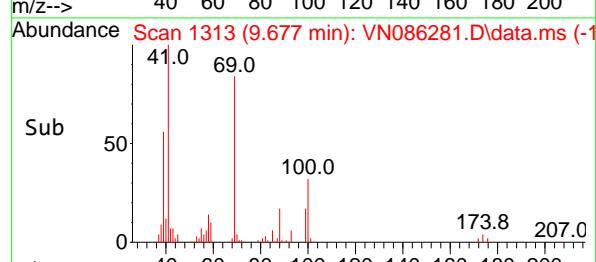
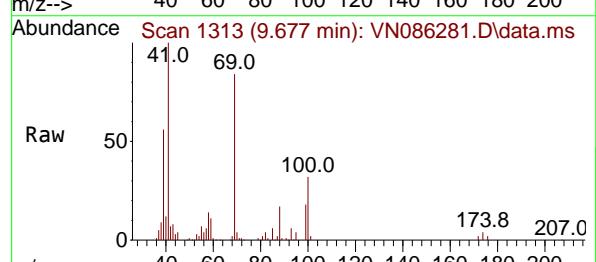
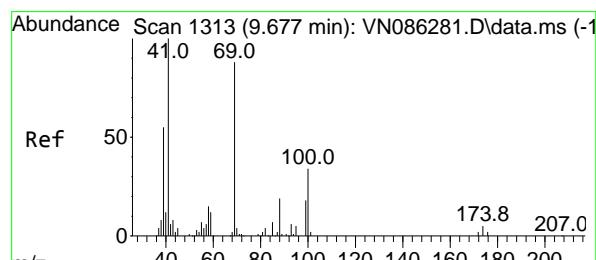
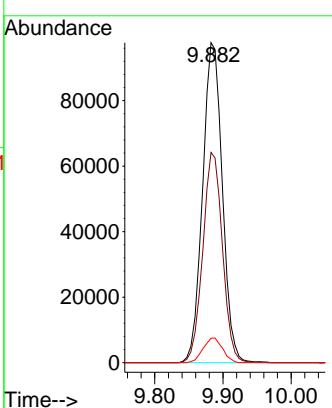
Instrument:

MSVOA_N

ClientSampleId :

VSTDICCC050

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#48

Methyl methacrylate

Concen: 46.146 ug/l

RT: 9.677 min Scan# 1313

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

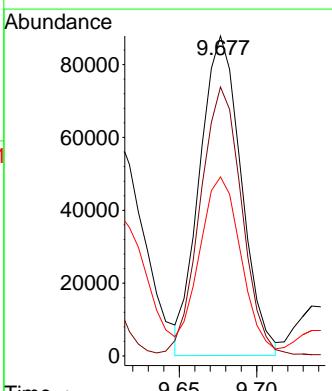
Tgt Ion: 41 Resp: 163719

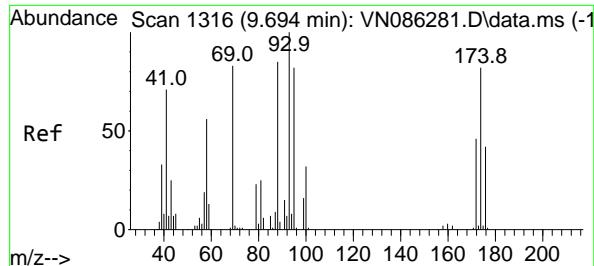
Ion Ratio Lower Upper

41 100

69 85.2 68.2 102.2

39 56.5 45.2 67.8





#49

1,4-Dioxane

Concen: 892.337 ug/l

RT: 9.694 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086281.D

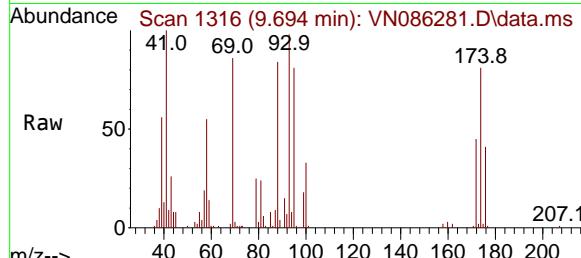
Acq: 15 Apr 2025 13:51

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050



Tgt Ion: 88 Resp: 53851

Ion Ratio Lower Upper

88 100

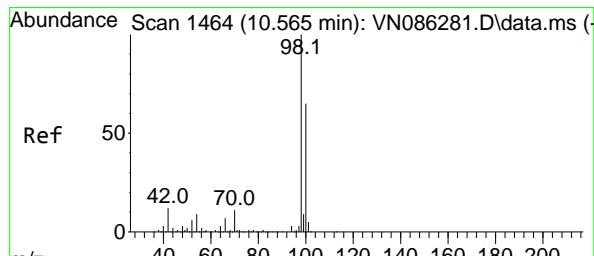
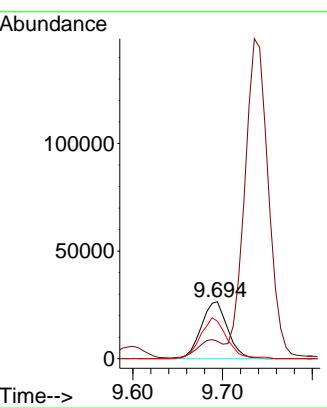
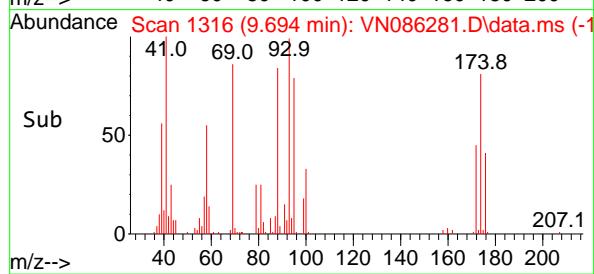
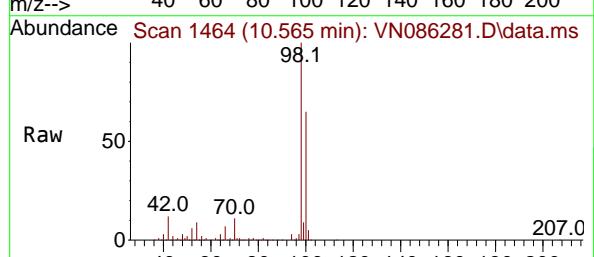
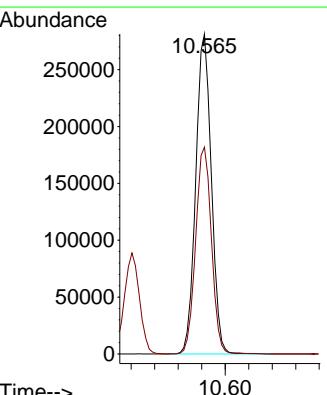
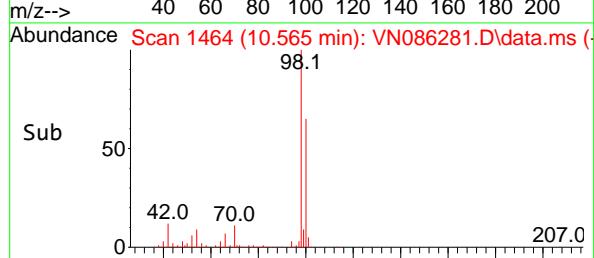
43 29.8 23.8 35.8

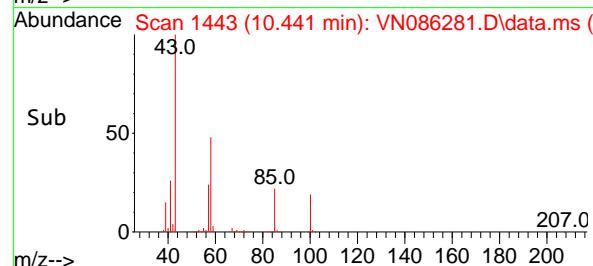
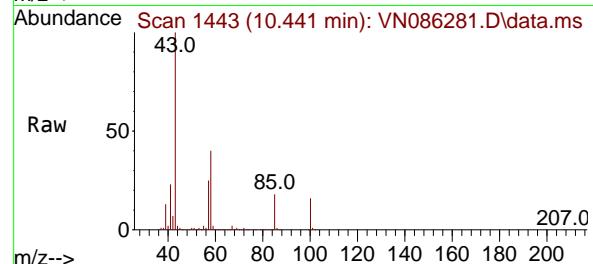
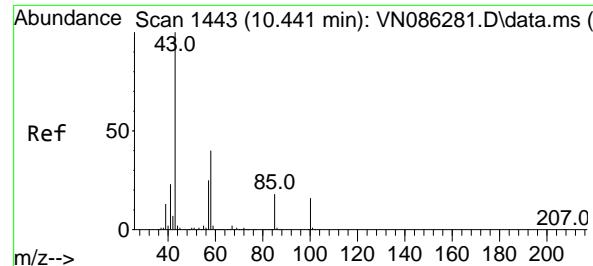
58 71.8 57.4 86.2

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025

#50
Toluene-d8
Concen: 50.426 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51Tgt Ion: 98 Resp: 517785
Ion Ratio Lower Upper
98 100
100 65.6 52.5 78.7



#51

4-Methyl-2-Pentanone

Concen: 241.959 ug/l

RT: 10.441 min Scan# 1443

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

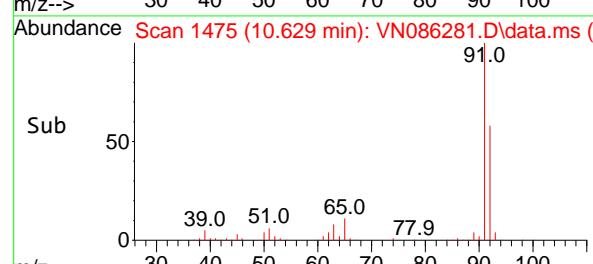
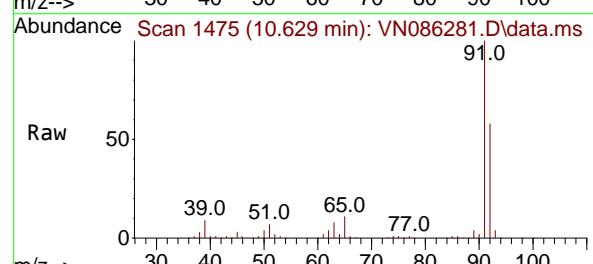
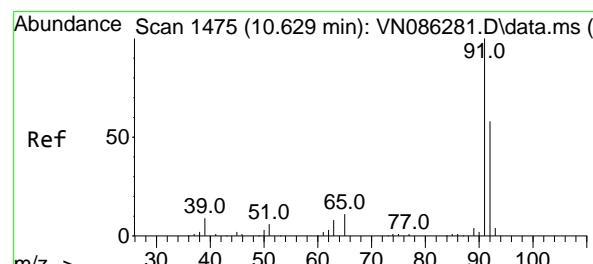
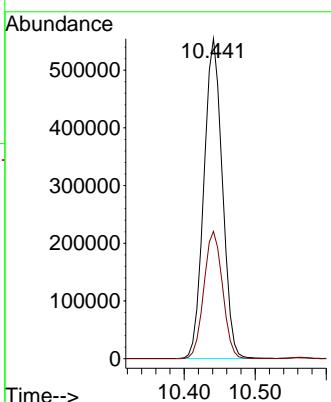
Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#52

Toluene

Concen: 48.144 ug/l

RT: 10.629 min Scan# 1475

Delta R.T. 0.000 min

Lab File: VN086281.D

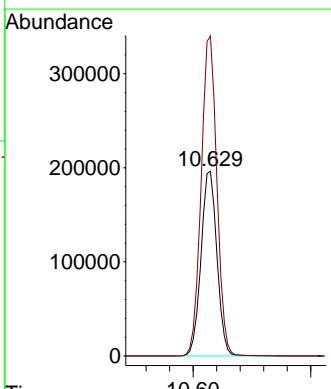
Acq: 15 Apr 2025 13:51

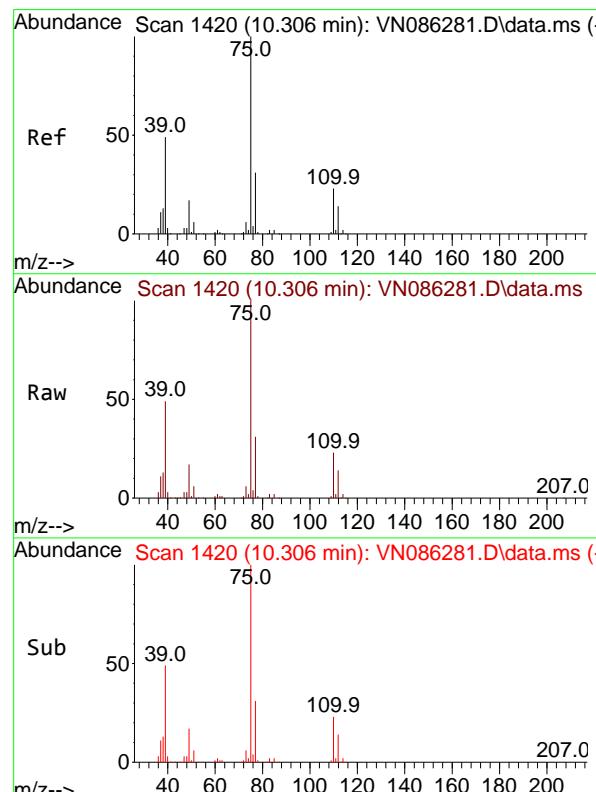
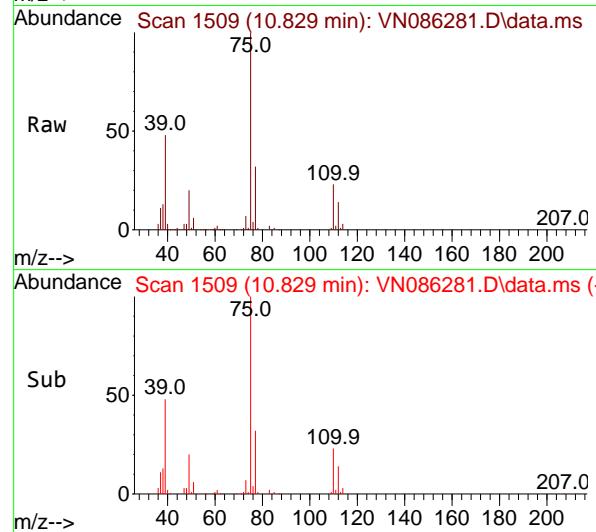
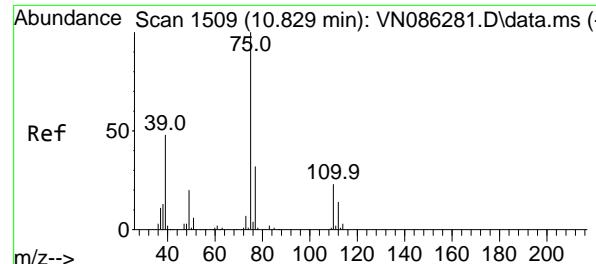
Tgt Ion: 92 Resp: 369349

Ion Ratio Lower Upper

92 100

91 171.6 137.3 205.9





#53

t-1,3-Dichloropropene

Concen: 48.996 ug/l

RT: 10.829 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

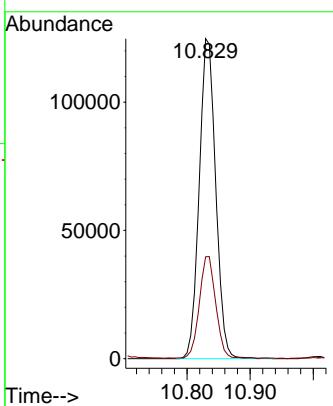
Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#54

cis-1,3-Dichloropropene

Concen: 47.021 ug/l

RT: 10.306 min Scan# 1420

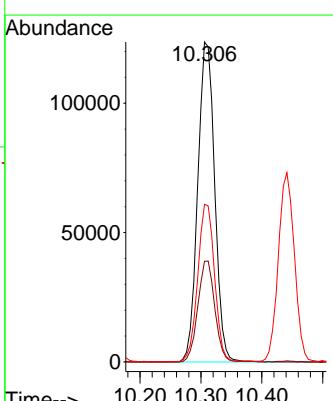
Delta R.T. -0.000 min

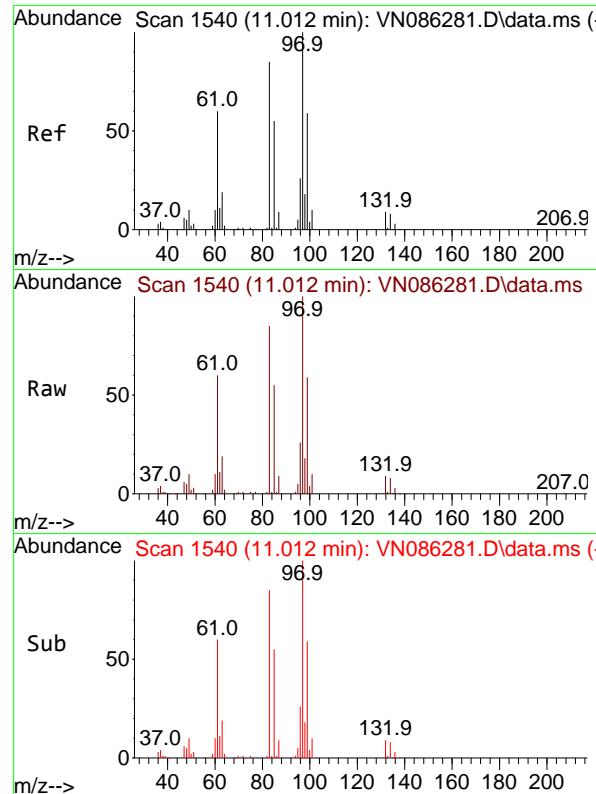
Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

Tgt Ion: 75 Resp: 238764

| | | | |
|-----|-------|-------|-------|
| Ion | Ratio | Lower | Upper |
| 75 | 100 | | |
| 77 | 31.5 | 25.2 | 37.8 |
| 39 | 49.1 | 39.3 | 58.9 |



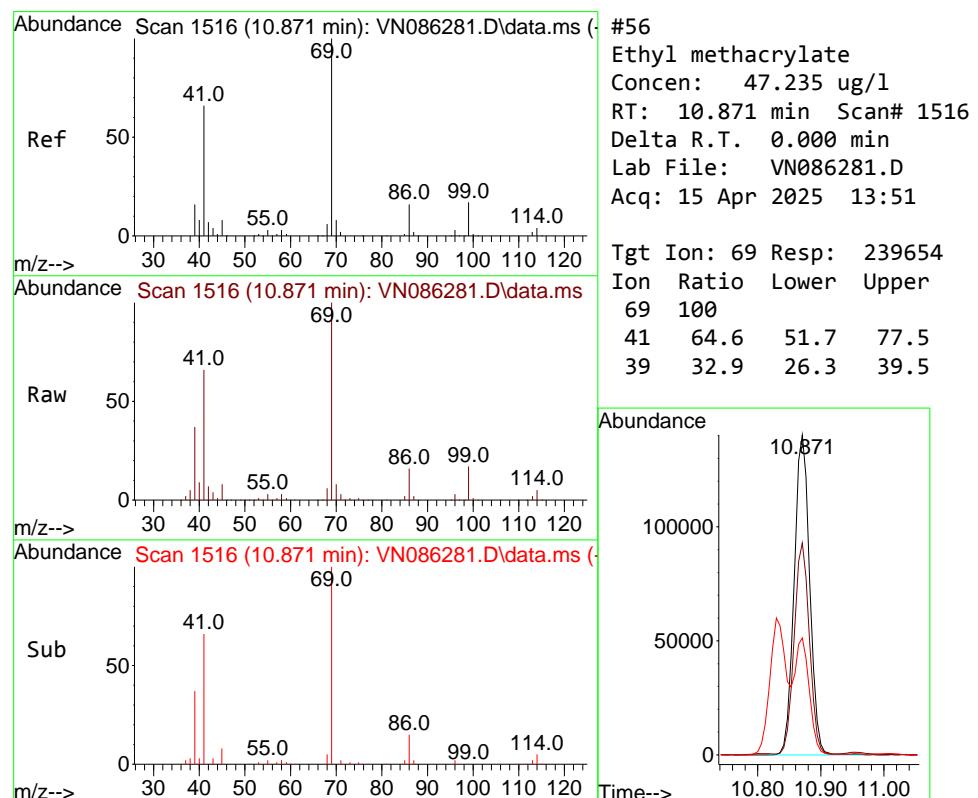
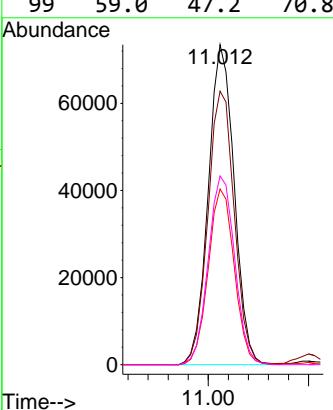


#55
1,1,2-Trichloroethane
Concen: 47.721 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

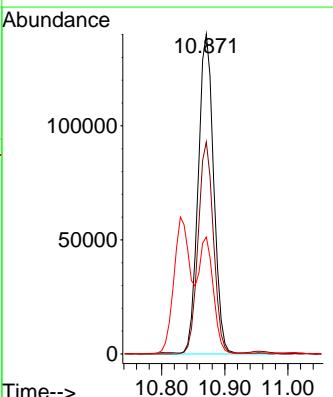
Manual Integrations APPROVED

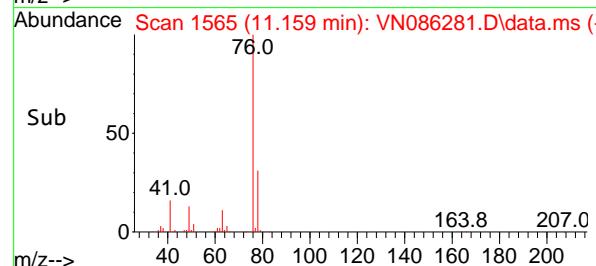
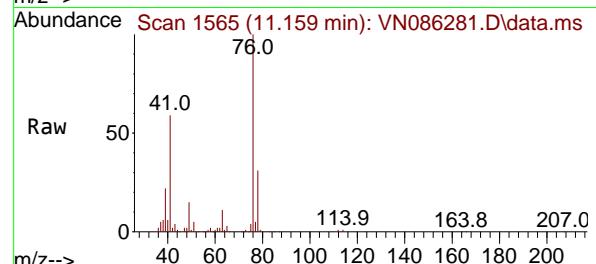
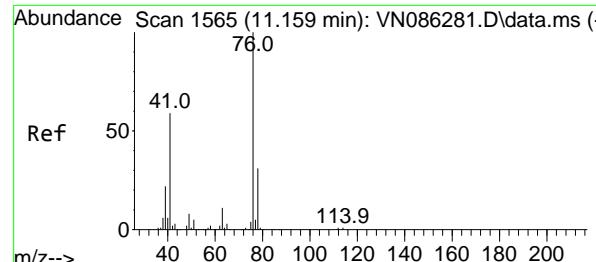
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#56
Ethyl methacrylate
Concen: 47.235 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

Tgt Ion: 69 Resp: 239654
Ion Ratio Lower Upper
69 100
41 64.6 51.7 77.5
39 32.9 26.3 39.5





#57

1,3-Dichloropropane

Concen: 47.689 ug/l

RT: 11.159 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

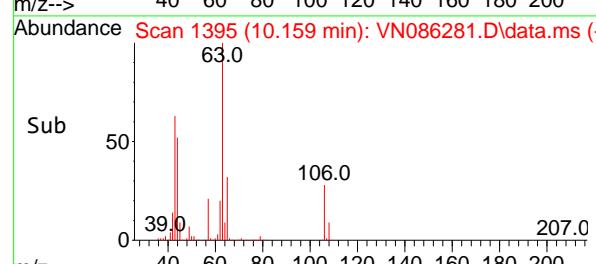
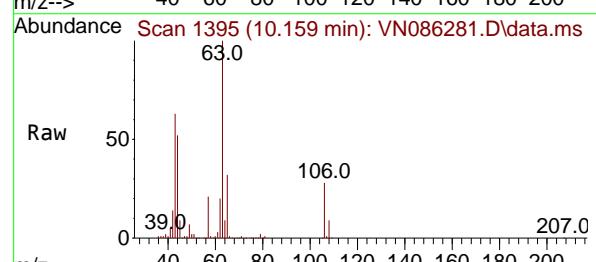
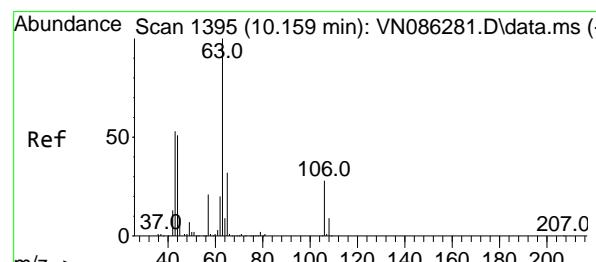
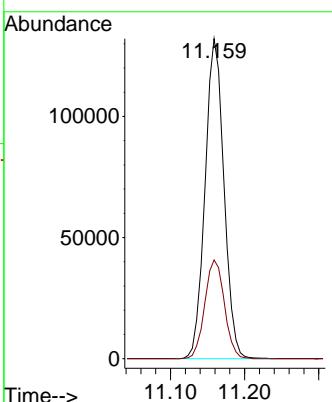
Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#58

2-Chloroethyl Vinyl ether

Concen: 246.859 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. 0.000 min

Lab File: VN086281.D

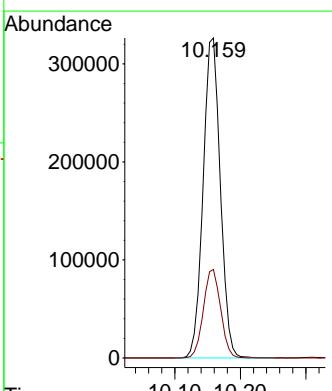
Acq: 15 Apr 2025 13:51

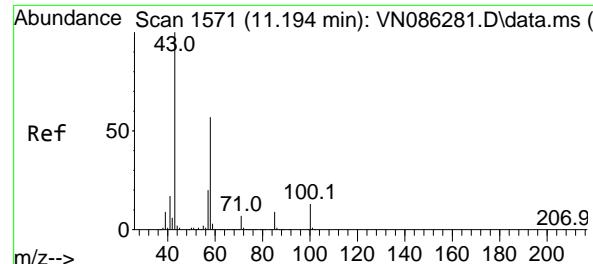
Tgt Ion: 63 Resp: 594475

Ion Ratio Lower Upper

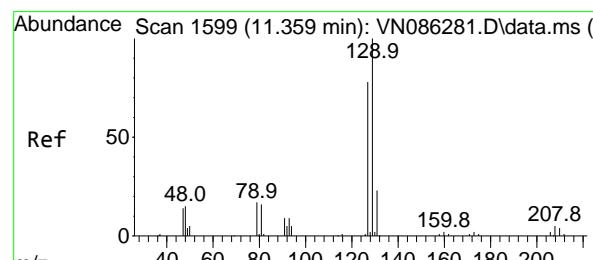
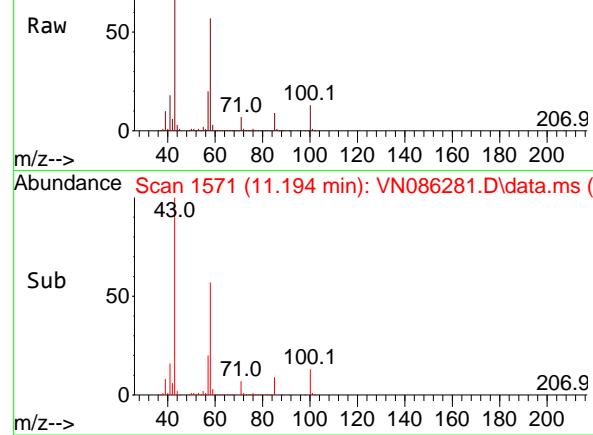
63 100

106 27.7 22.2 33.2

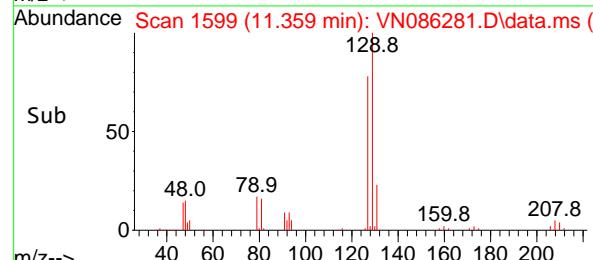
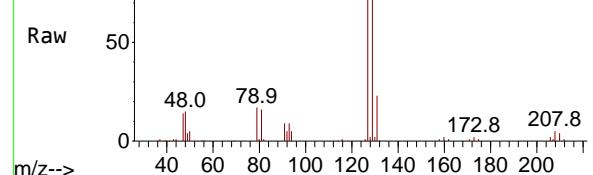




Abundance Scan 1571 (11.194 min): VN086281.D\data.ms



Abundance Scan 1599 (11.359 min): VN086281.D\data.ms



#59

2-Hexanone

Concen: 239.414 ug/l

RT: 11.194 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 734660

Ion Ratio Lower Upper

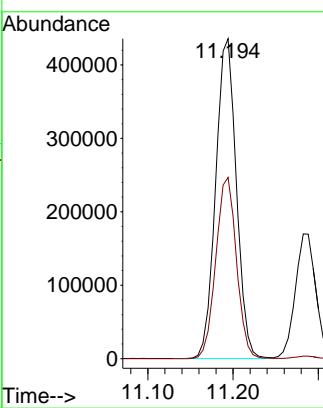
43 100

58 56.7 28.3 85.0

Manual Integrations**APPROVED**

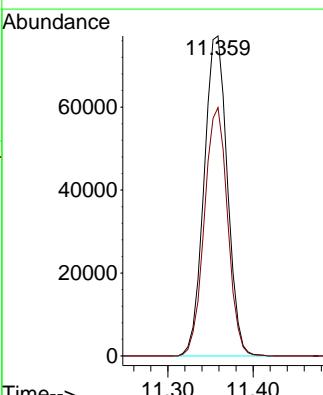
Reviewed By :John Carlone 04/16/2025

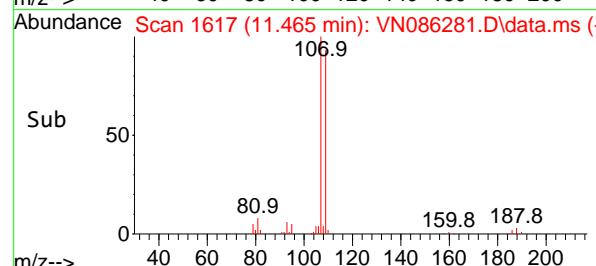
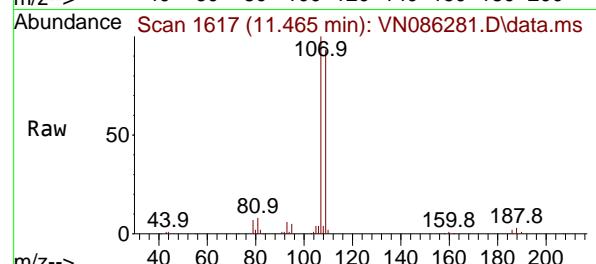
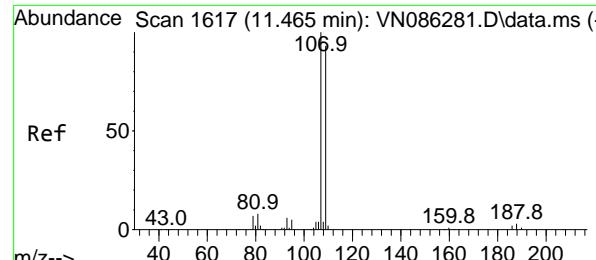
Supervised By :Semsettin Yesilyurt 04/16/2025



#60
Dibromochloromethane
Concen: 48.274 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

Tgt Ion:129 Resp: 146318
Ion Ratio Lower Upper
129 100
127 77.4 38.7 116.1





#61

1,2-Dibromoethane

Concen: 48.213 ug/l

RT: 11.465 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

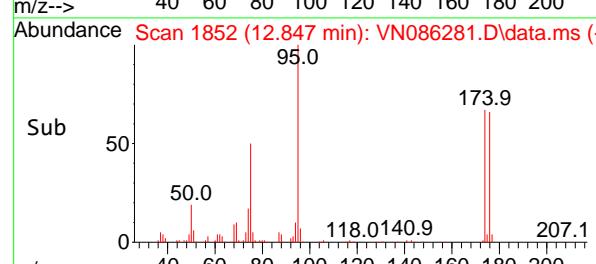
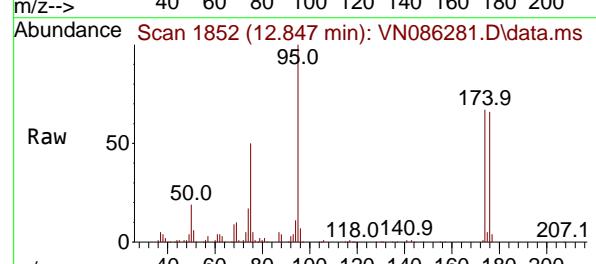
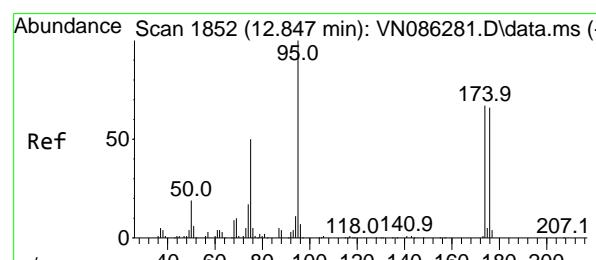
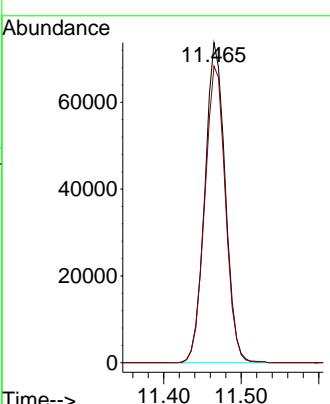
Instrument:

MSVOA_N

ClientSampleId :

VSTDICCC050

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#62

4-Bromofluorobenzene

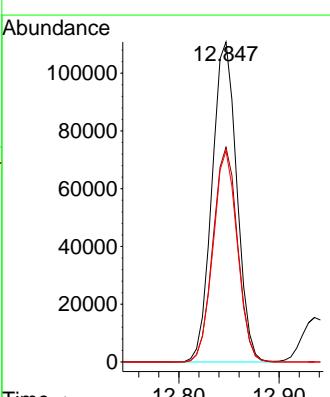
Concen: 50.744 ug/l

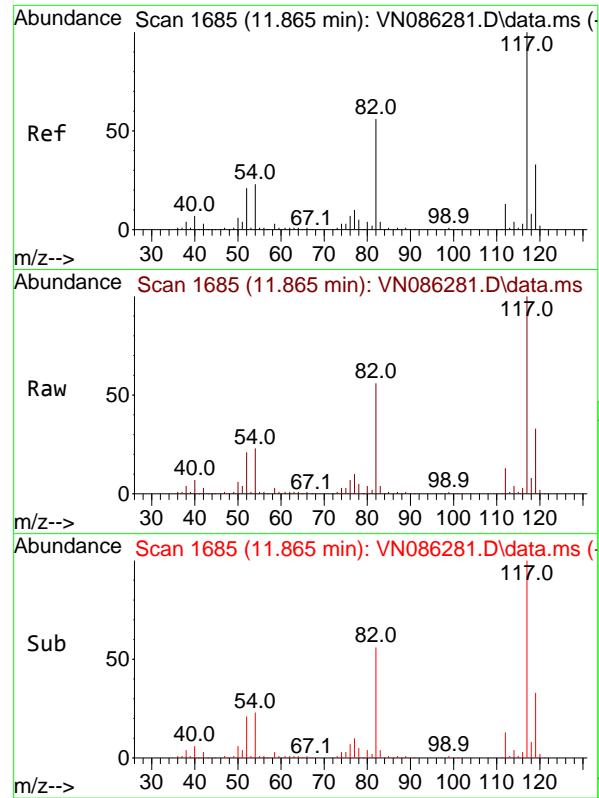
RT: 12.847 min Scan# 1852

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

 Tgt Ion: 95 Resp: 190049
 Ion Ratio Lower Upper
 95 100
 174 66.7 0.0 133.4
 176 64.6 0.0 129.2


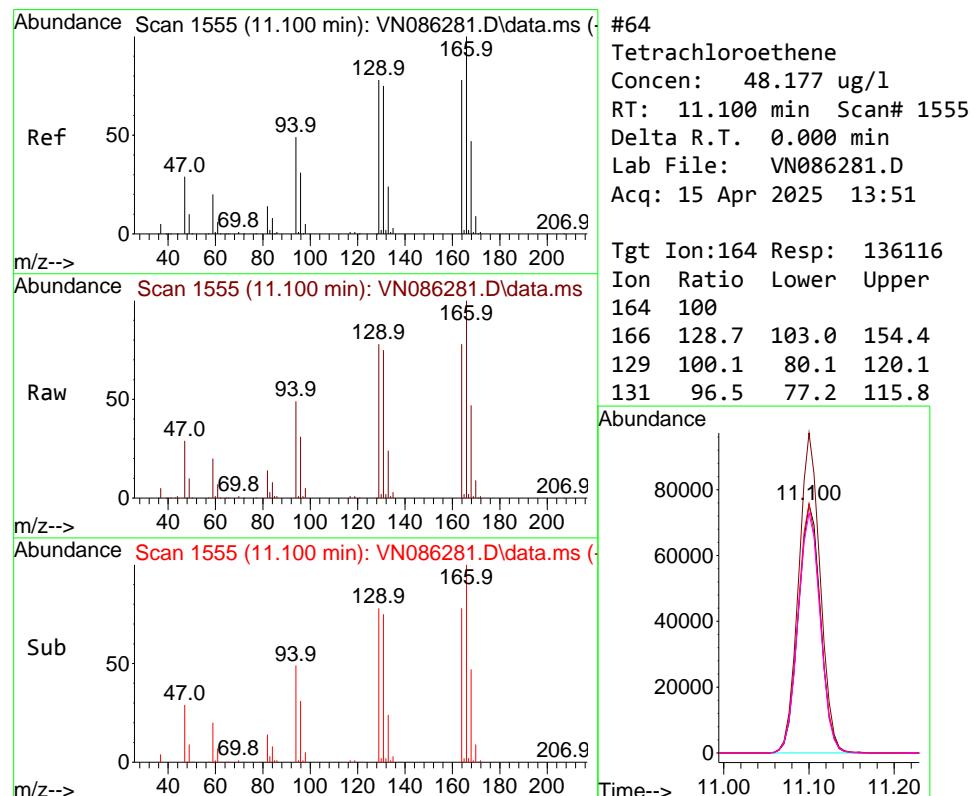
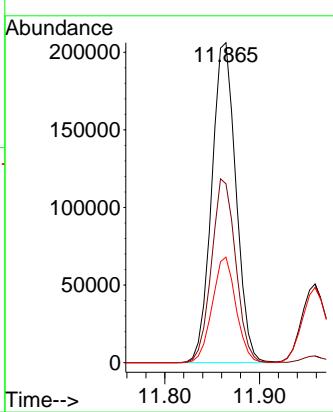


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

Instrument : MSVOA_N
ClientSampleId : VSTDICCC050

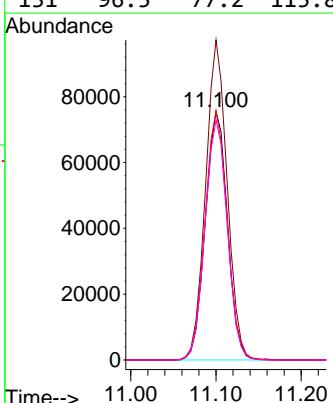
Manual Integrations
APPROVED

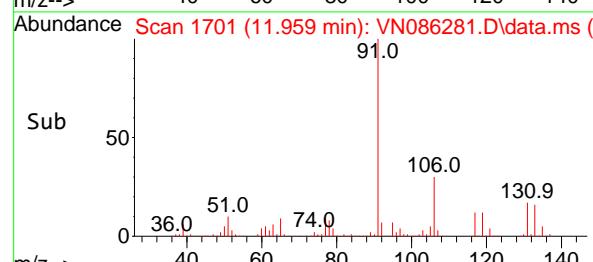
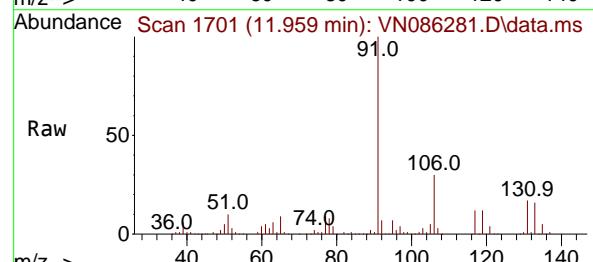
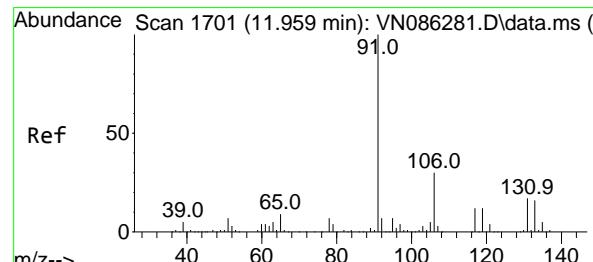
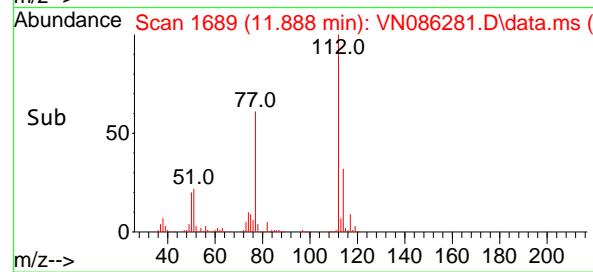
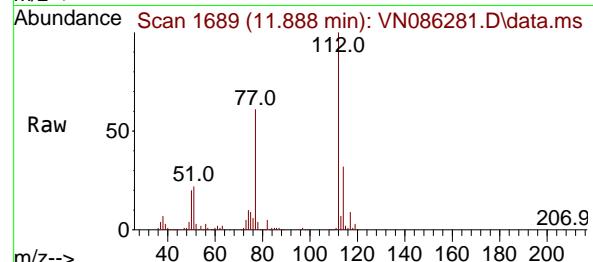
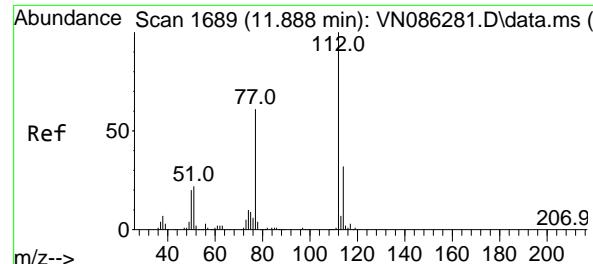
Reviewed By :John Carbone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#64
Tetrachloroethene
Concen: 48.177 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

Tgt Ion:164 Resp: 136116
Ion Ratio Lower Upper
164 100
166 128.7 103.0 154.4
129 100.1 80.1 120.1
131 96.5 77.2 115.8





#65

Chlorobenzene

Concen: 47.072 ug/l

RT: 11.888 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

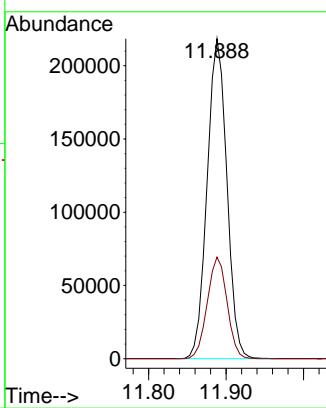
Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#66

1,1,1,2-Tetrachloroethane

Concen: 47.197 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

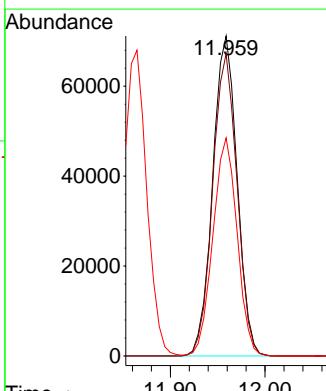
Tgt Ion:131 Resp: 127627

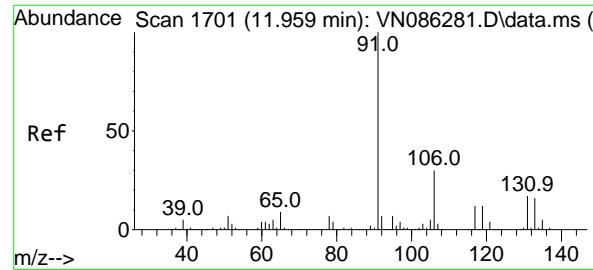
Ion Ratio Lower Upper

131 100

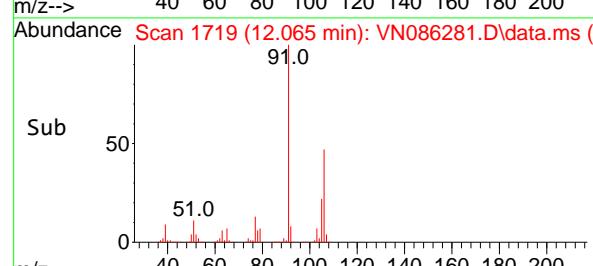
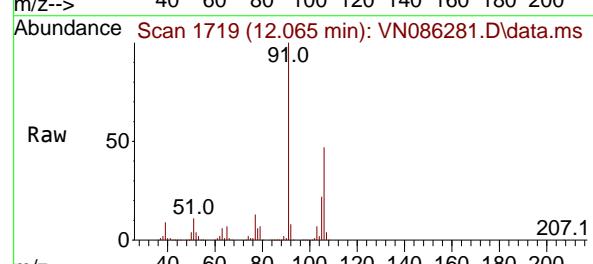
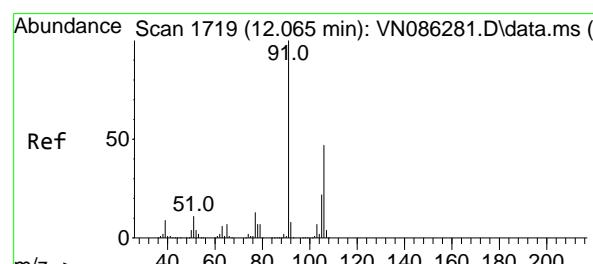
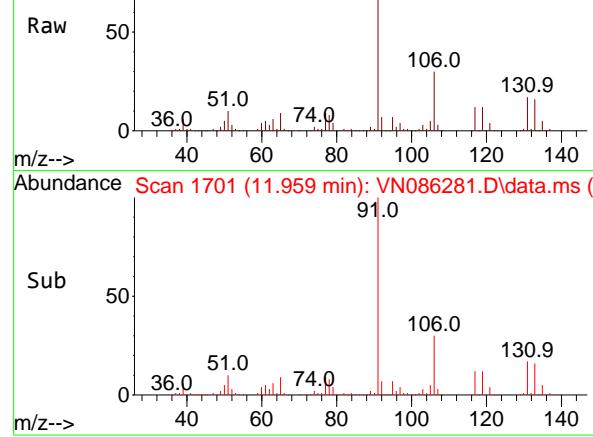
133 94.2 47.1 141.3

119 67.6 33.8 101.4





Abundance Scan 1701 (11.959 min): VN086281.D\data.ms



#67

Ethyl Benzene

Concen: 47.627 ug/l

RT: 11.959 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

Instrument :

MSVOA_N

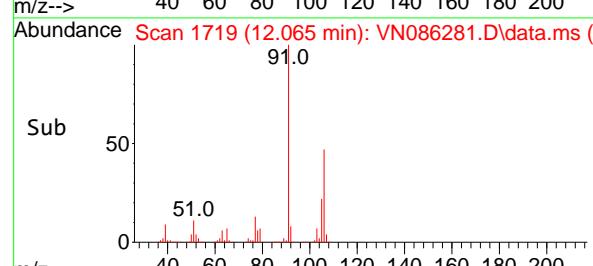
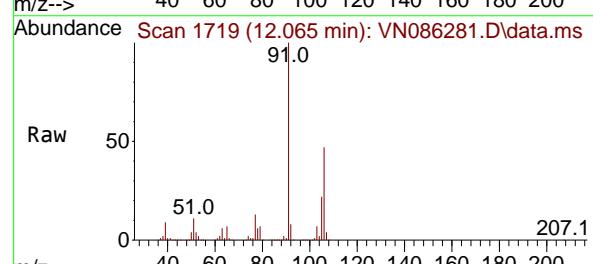
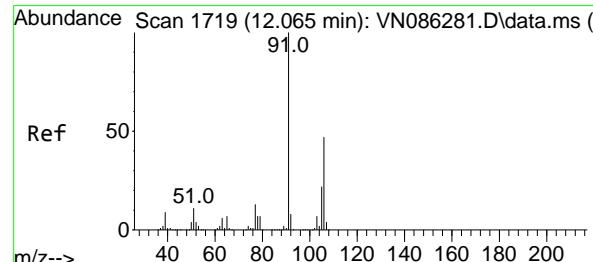
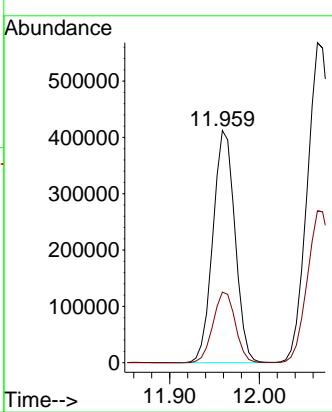
ClientSampleId :

VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#68

m/p-Xylenes

Concen: 96.302 ug/l

RT: 12.065 min Scan# 1719

Delta R.T. 0.000 min

Lab File: VN086281.D

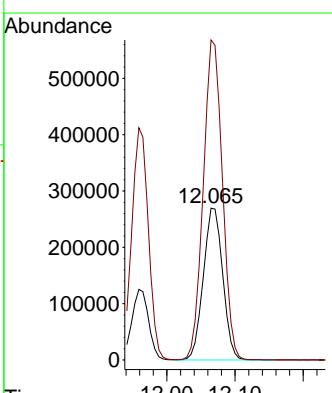
Acq: 15 Apr 2025 13:51

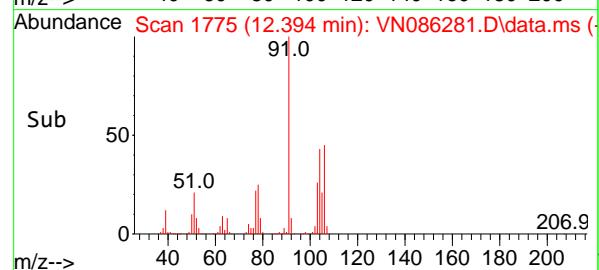
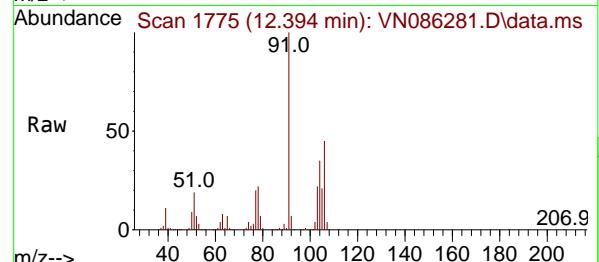
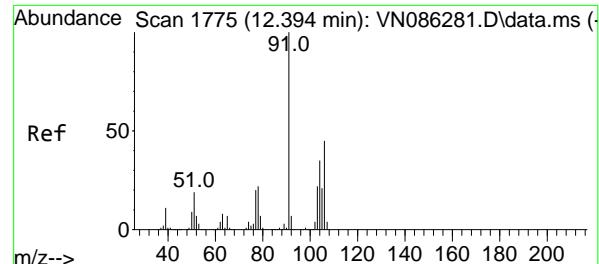
Tgt Ion:106 Resp: 533742

Ion Ratio Lower Upper

106 100

91 208.1 166.5 249.7



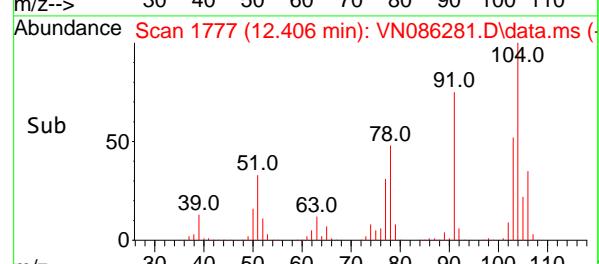
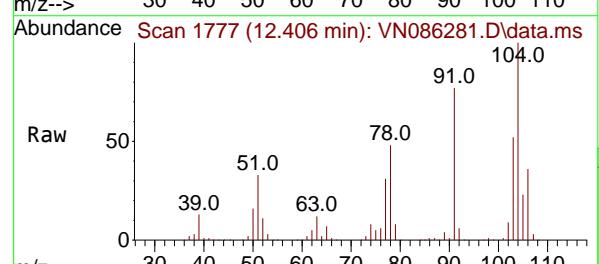
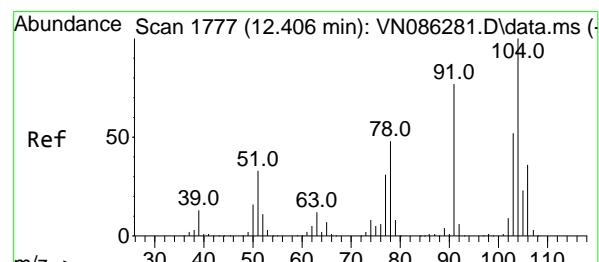
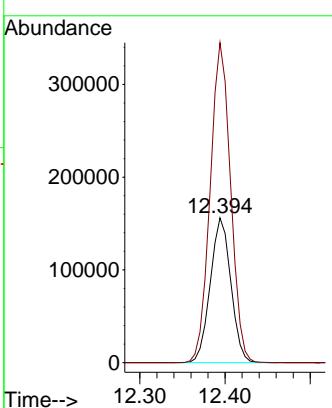


#69
o-Xylene
Concen: 47.783 ug/l
RT: 12.394 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

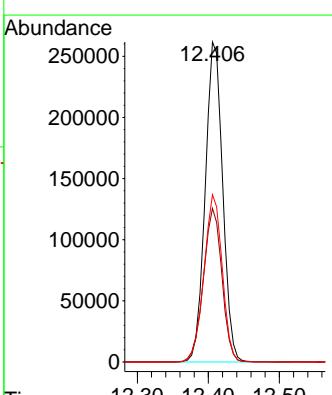
Manual Integrations APPROVED

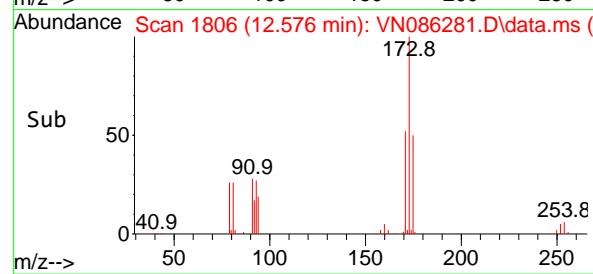
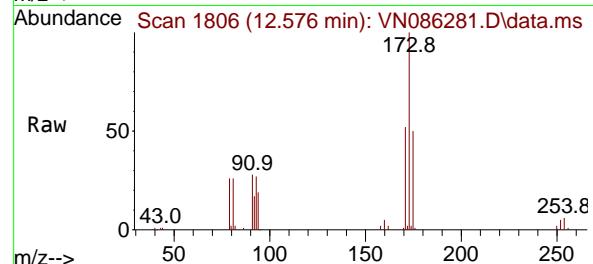
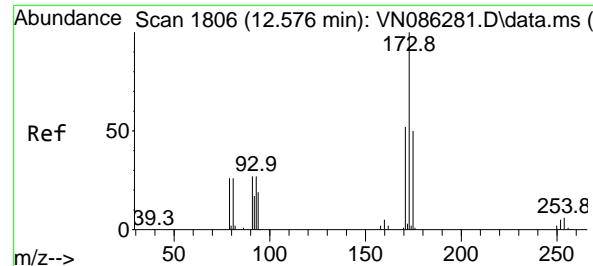
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#70
Styrene
Concen: 48.998 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

Tgt Ion:104 Resp: 447486
Ion Ratio Lower Upper
104 100
78 50.8 40.6 61.0
103 54.5 43.6 65.4





#71

Bromoform

Concen: 47.065 ug/l

RT: 12.576 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

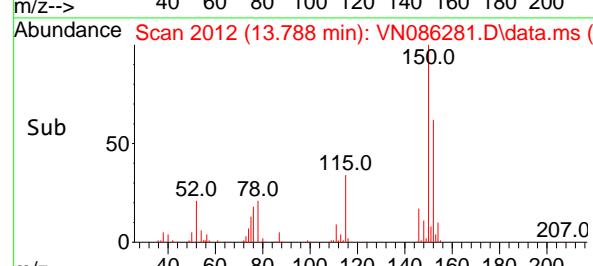
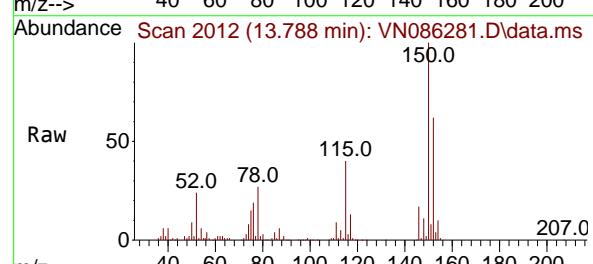
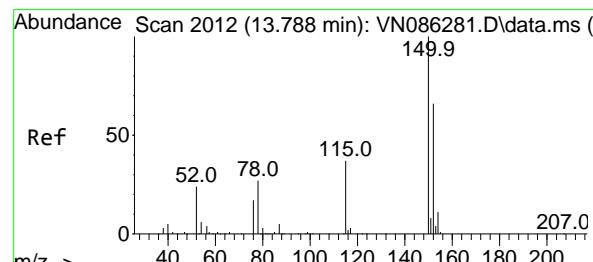
Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

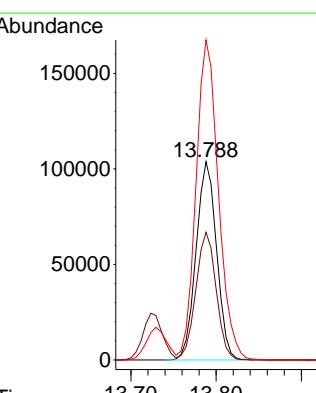
Tgt Ion:152 Resp: 173703

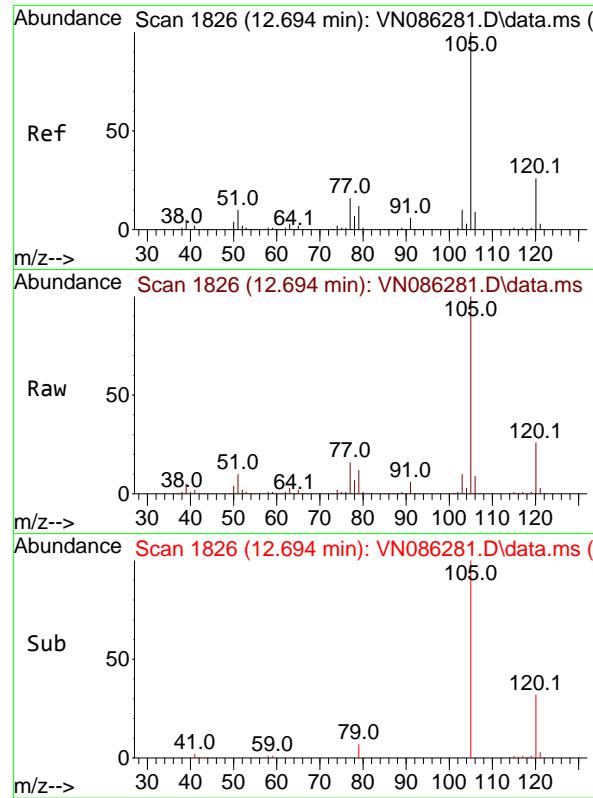
Ion Ratio Lower Upper

152 100

115 63.9 31.9 95.9

150 176.0 0.0 352.0



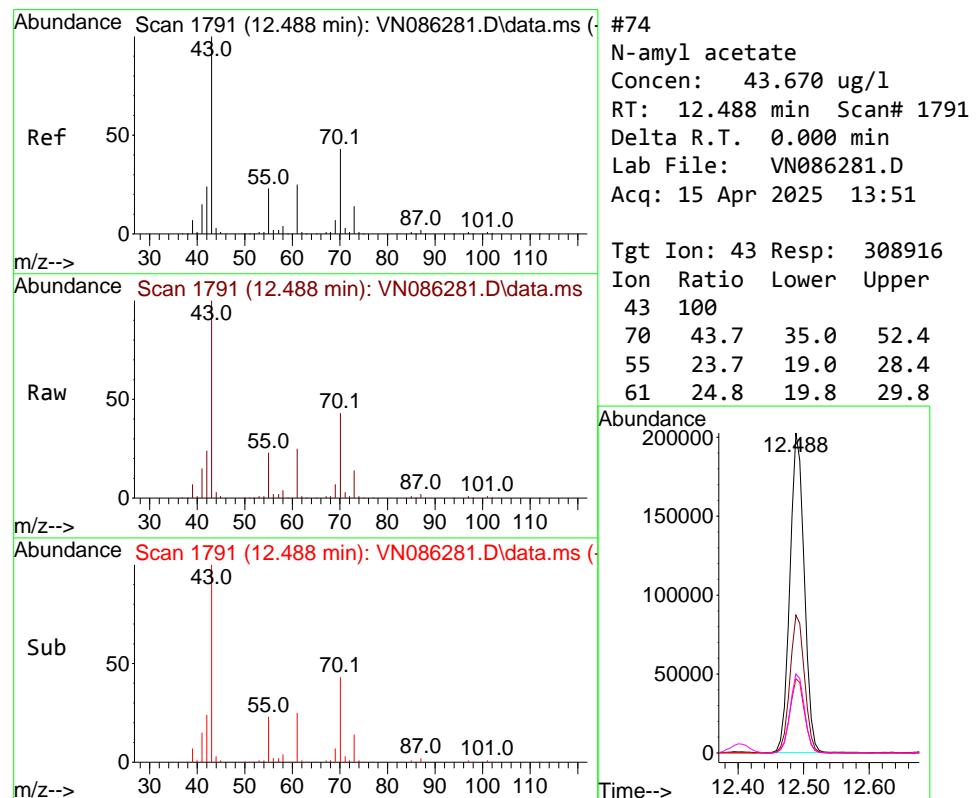
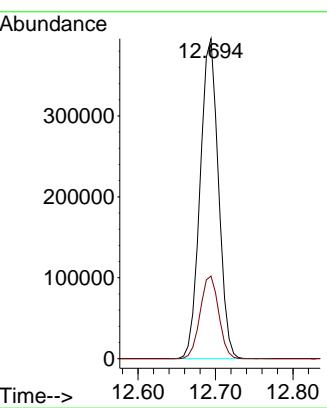


#73
Isopropylbenzene
Concen: 45.568 ug/l
RT: 12.694 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

Instrument : MSVOA_N
ClientSampleId : VSTDICCC050

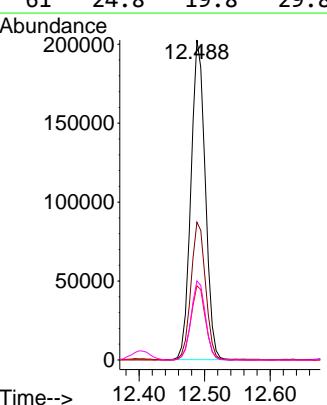
Manual Integrations
APPROVED

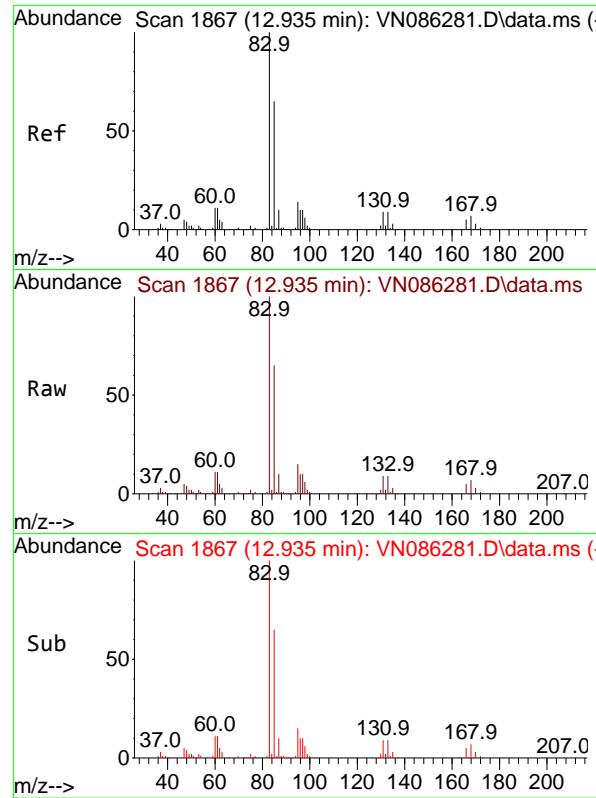
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#74
N-amyl acetate
Concen: 43.670 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

Tgt Ion: 43 Resp: 308916
Ion Ratio Lower Upper
43 100
70 43.7 35.0 52.4
55 23.7 19.0 28.4
61 24.8 19.8 29.8



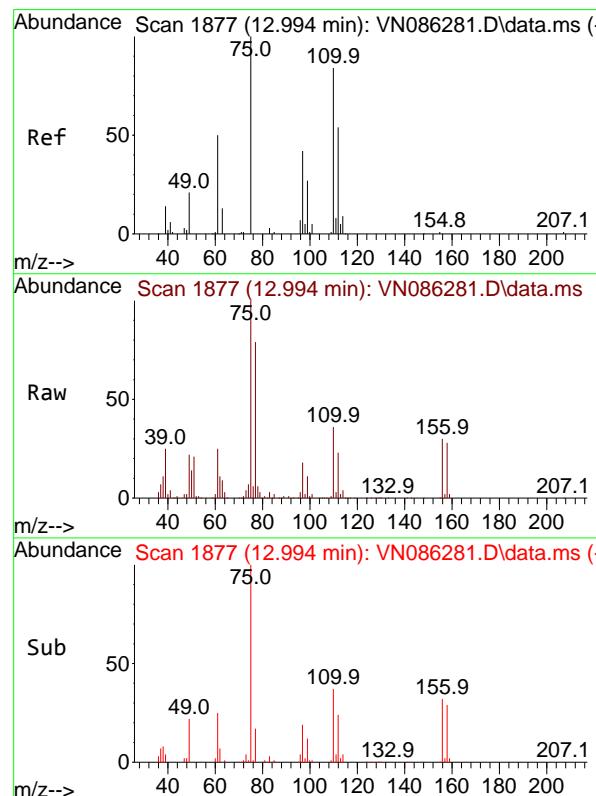
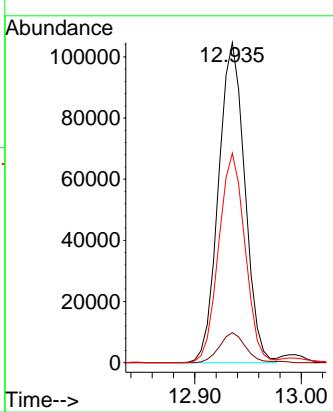


#75
1,1,2,2-Tetrachloroethane
Concen: 44.025 ug/l
RT: 12.935 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

Instrument : MSVOA_N
ClientSampleId : VSTDICCC050

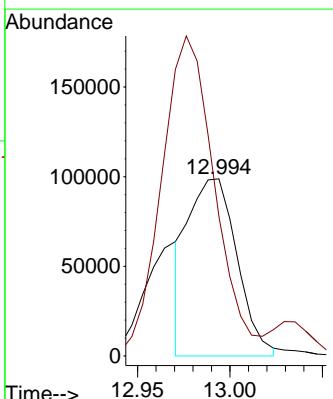
Manual Integrations
APPROVED

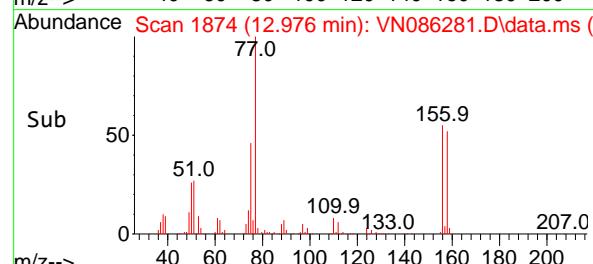
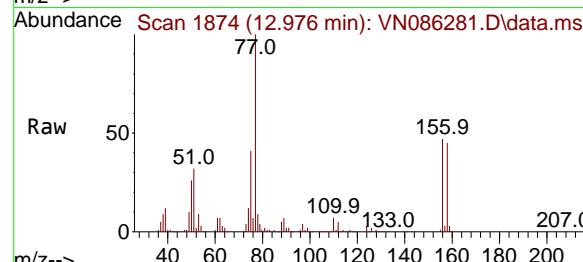
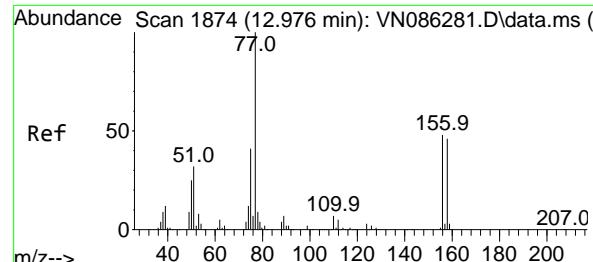
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#76
1,2,3-Trichloropropane
Concen: 44.357 ug/l
RT: 12.994 min Scan# 1877
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

Tgt Ion: 75 Resp: 181010
Ion Ratio Lower Upper
75 100
77 197.6 98.8 296.4





#77

Bromobenzene

Concen: 46.919 ug/l

RT: 12.976 min Scan# 1874

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

Instrument :

MSVOA_N

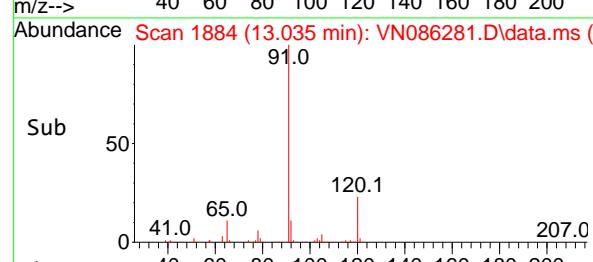
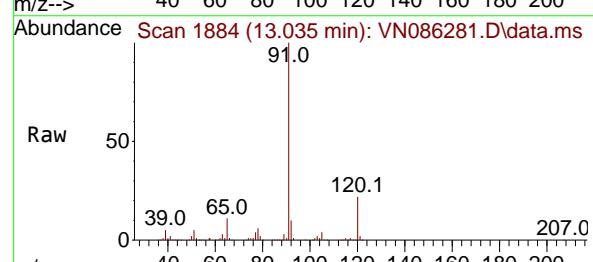
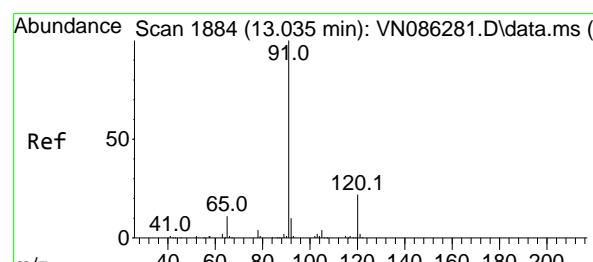
ClientSampleId :

VSTDICCC050

**Manual Integrations
APPROVED**

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#78

n-propylbenzene

Concen: 46.556 ug/l

RT: 13.035 min Scan# 1884

Delta R.T. 0.000 min

Lab File: VN086281.D

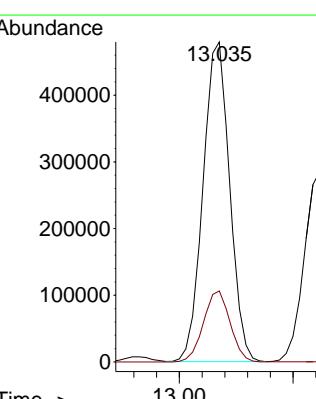
Acq: 15 Apr 2025 13:51

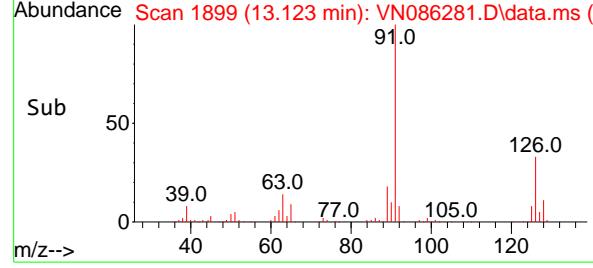
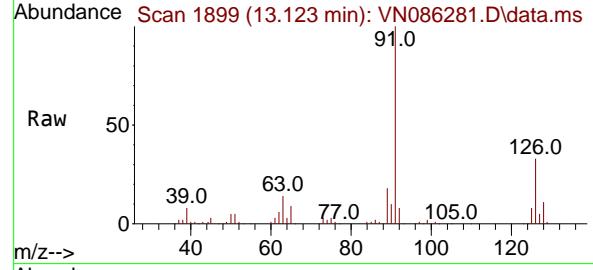
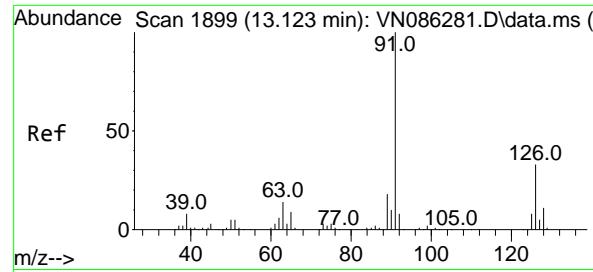
Tgt Ion: 91 Resp: 779530

Ion Ratio Lower Upper

91 100

120 22.2 11.1 33.3





#79

2-Chlorotoluene

Concen: 45.740 ug/l

RT: 13.123 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

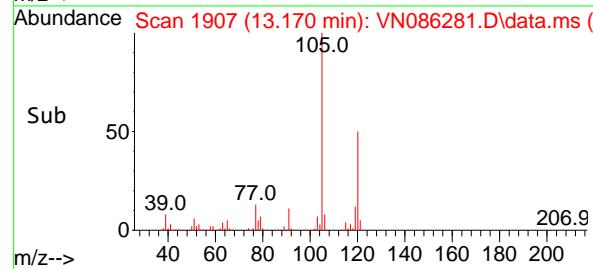
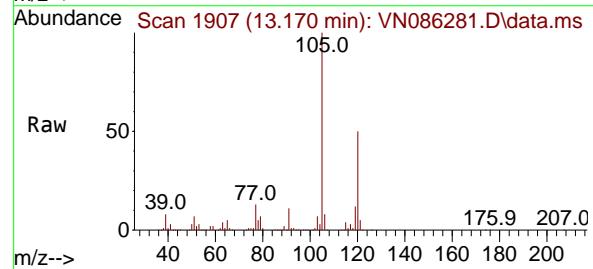
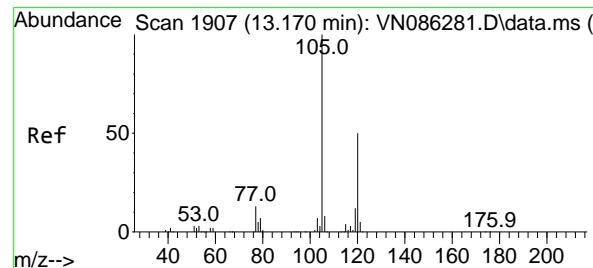
Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#80

1,3,5-Trimethylbenzene

Concen: 46.042 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VN086281.D

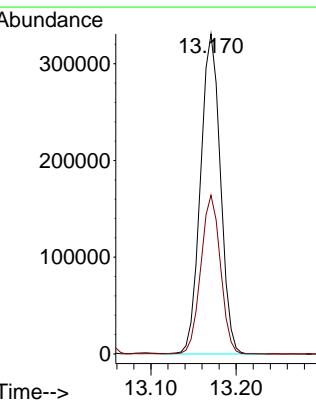
Acq: 15 Apr 2025 13:51

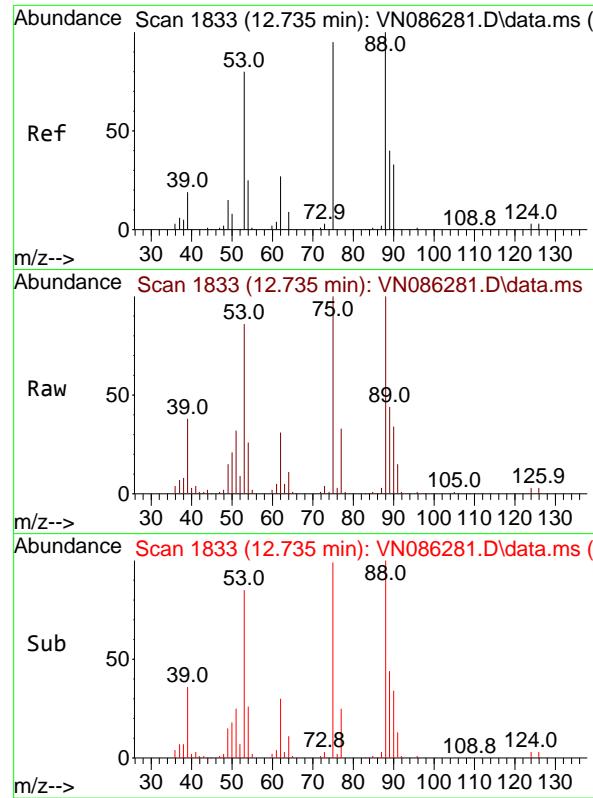
Tgt Ion:105 Resp: 535465

Ion Ratio Lower Upper

105 100

120 49.0 24.5 73.5



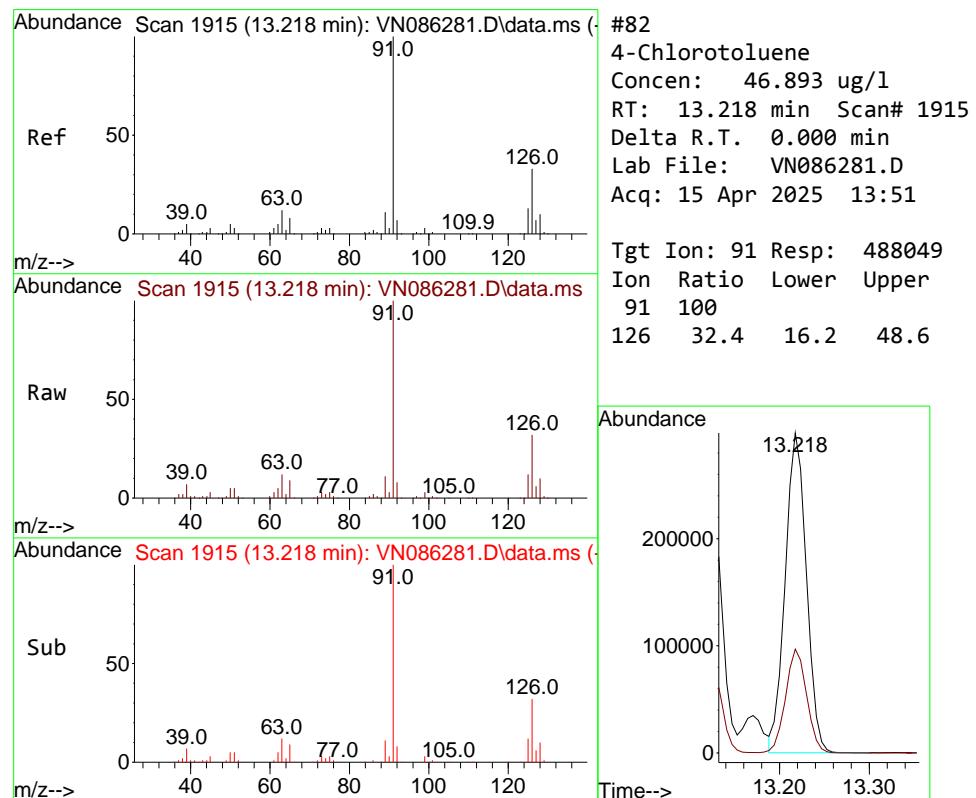
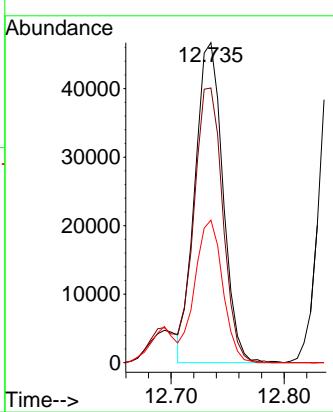


#81
trans-1,4-Dichloro-2-butene
Concen: 46.919 ug/l m
RT: 12.735 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

Instrument : MSVOA_N
ClientSampleId : VSTDICCC050

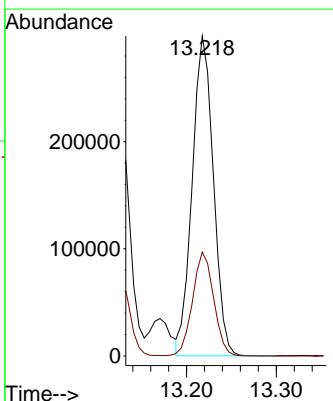
Manual Integrations APPROVED

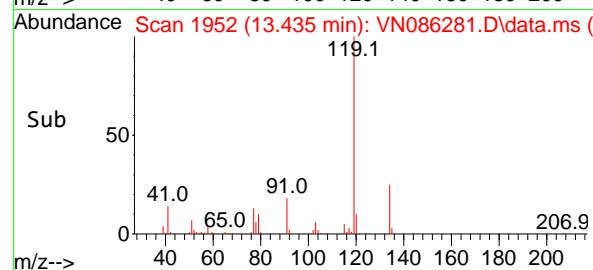
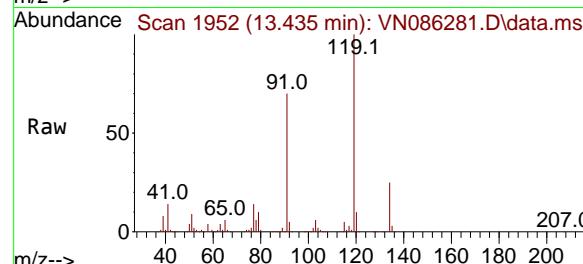
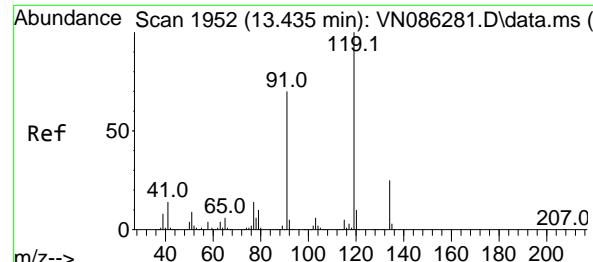
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#82
4-Chlorotoluene
Concen: 46.893 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

Tgt Ion: 91 Resp: 488049
Ion Ratio Lower Upper
91 100
126 32.4 16.2 48.6





#83

tert-Butylbenzene

Concen: 44.954 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

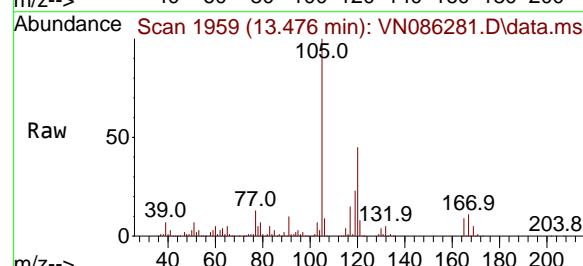
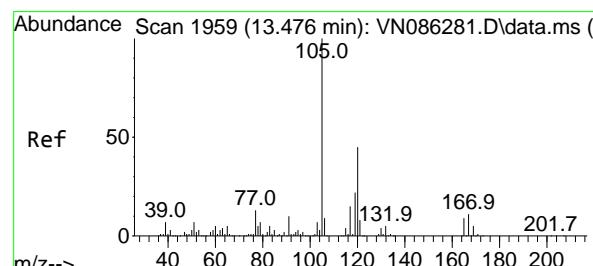
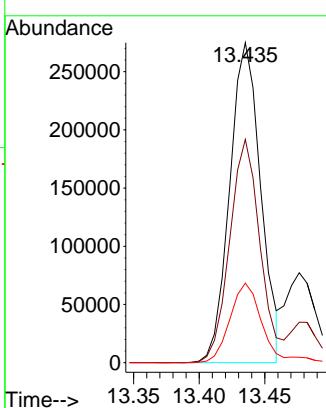
Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#84

1,2,4-Trimethylbenzene

Concen: 46.521 ug/l

RT: 13.476 min Scan# 1959

Delta R.T. 0.000 min

Lab File: VN086281.D

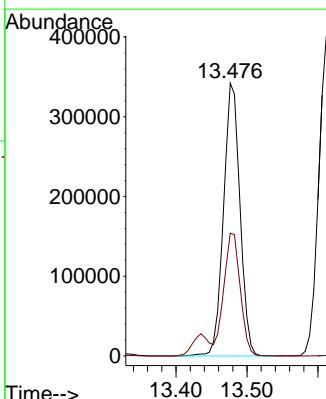
Acq: 15 Apr 2025 13:51

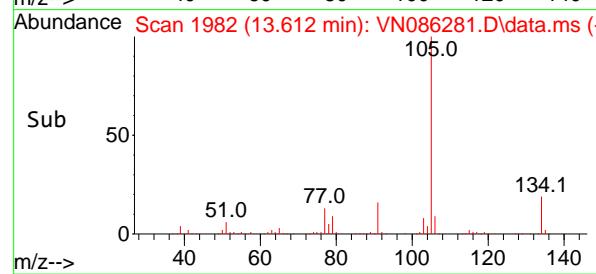
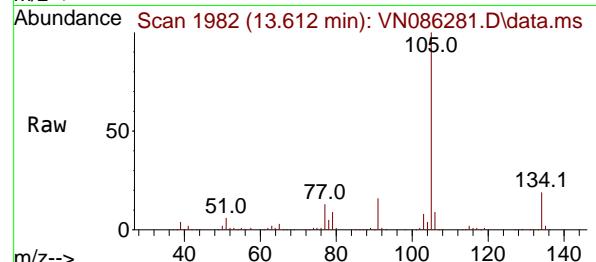
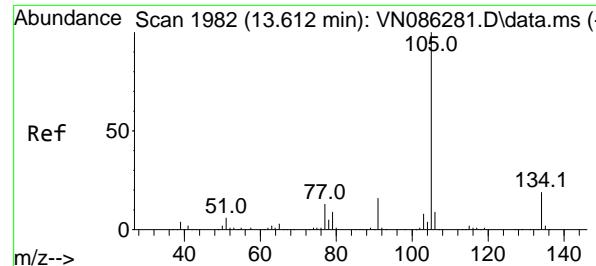
Tgt Ion:105 Resp: 550727

Ion Ratio Lower Upper

105 100

120 44.9 22.4 67.3





#85

sec-Butylbenzene

Concen: 46.767 ug/l

RT: 13.612 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

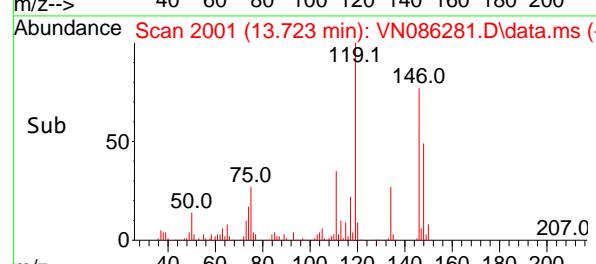
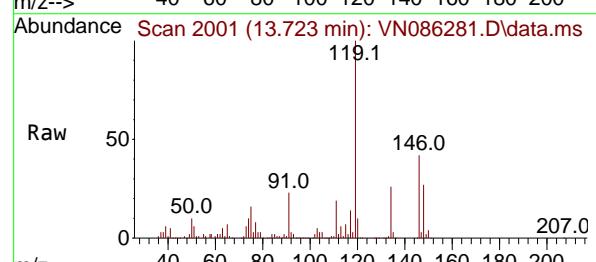
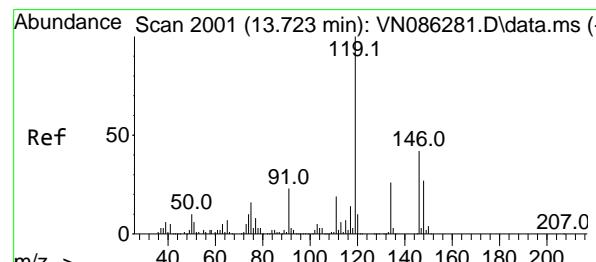
Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#86

p-Isopropyltoluene

Concen: 47.611 ug/l

RT: 13.723 min Scan# 2001

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

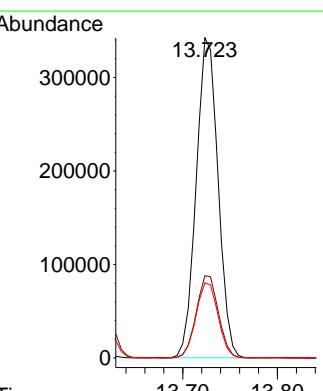
Tgt Ion:119 Resp: 548528

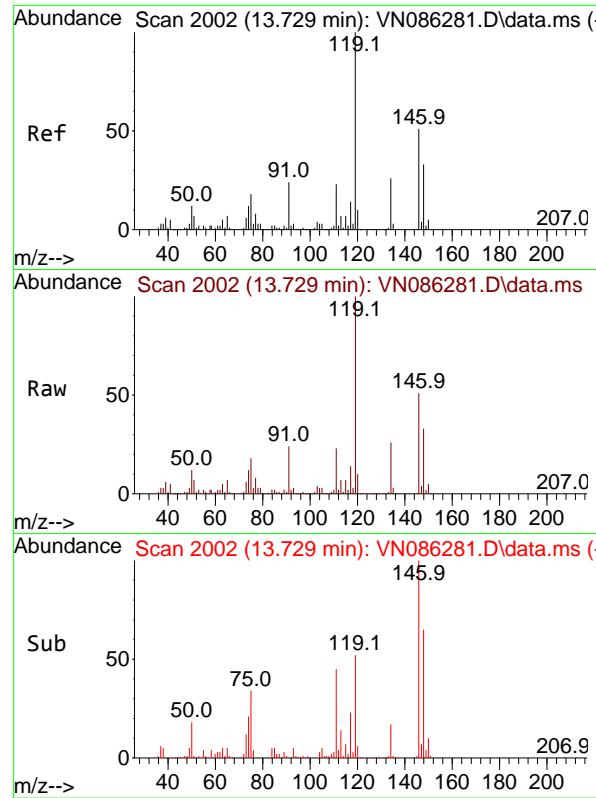
Ion Ratio Lower Upper

119 100

134 26.1 13.1 39.1

91 23.9 11.9 35.9





#87

1,3-Dichlorobenzene

Concen: 47.249 ug/l

RT: 13.729 min Scan# 2

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:146 Resp: 27964

Ion Ratio Lower Upper

146 100

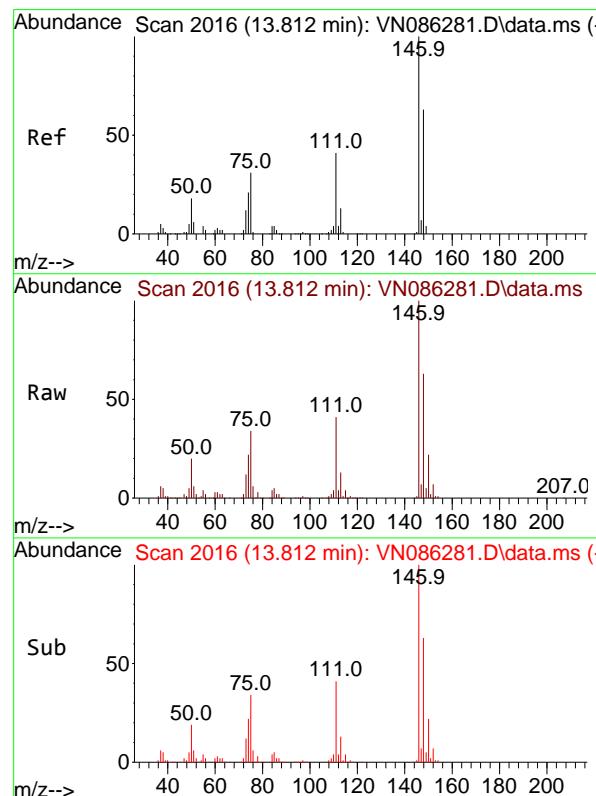
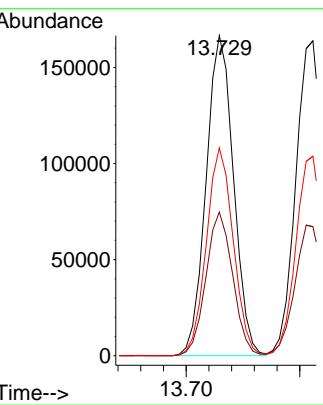
111 43.8 21.9 65.7

148 63.7 31.9 95.5

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#88

1,4-Dichlorobenzene

Concen: 47.032 ug/l

RT: 13.812 min Scan# 2016

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

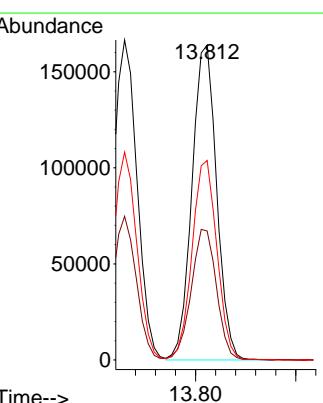
Tgt Ion:146 Resp: 280378

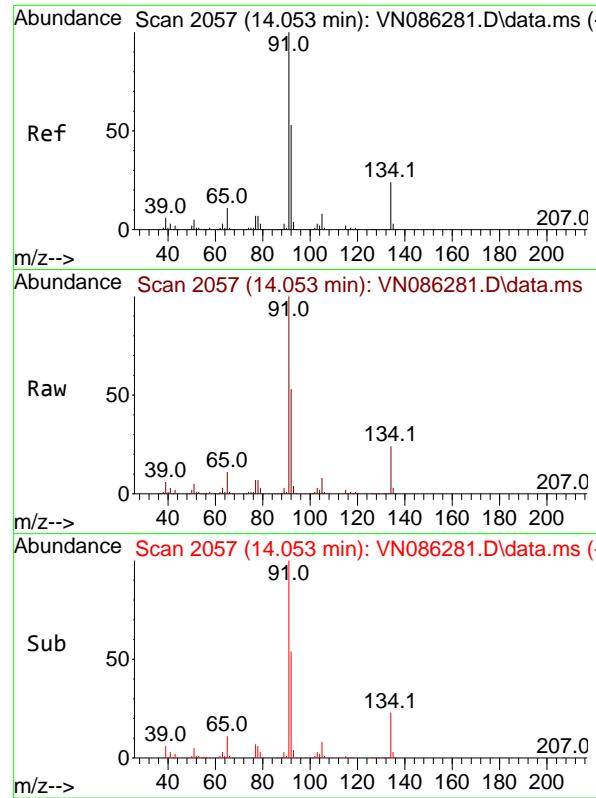
Ion Ratio Lower Upper

146 100

111 42.6 21.3 63.9

148 63.9 31.9 95.9



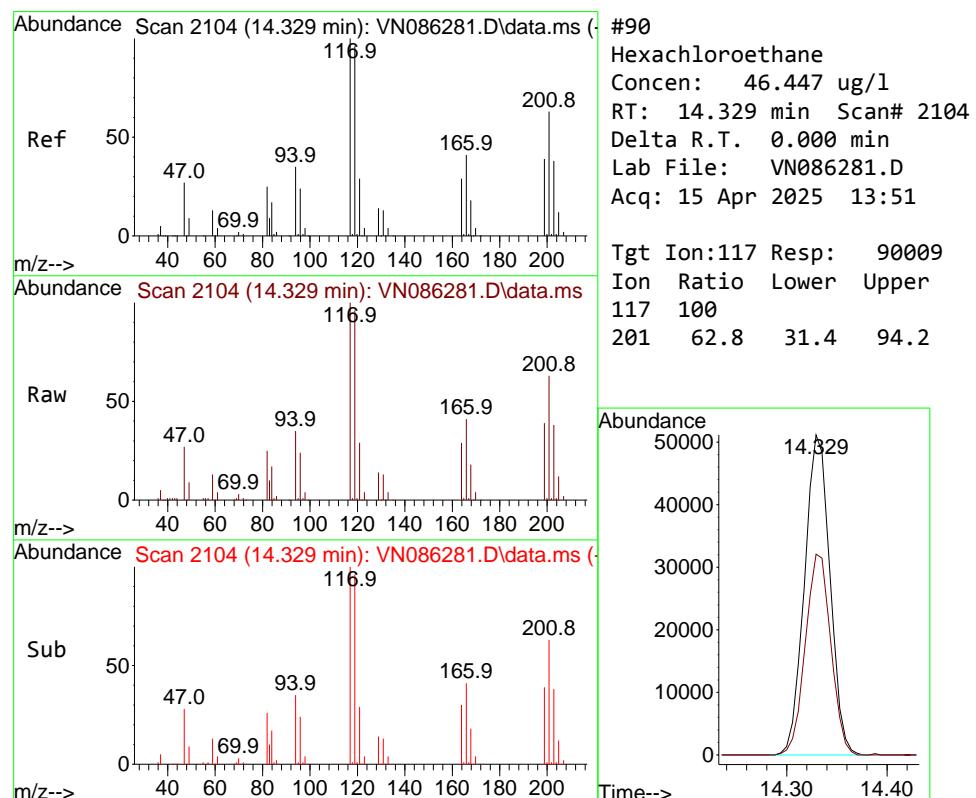


#89
n-Butylbenzene
Concen: 48.271 ug/l
RT: 14.053 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

Instrument : MSVOA_N
ClientSampleId : VSTDICCC050

Manual Integrations
APPROVED

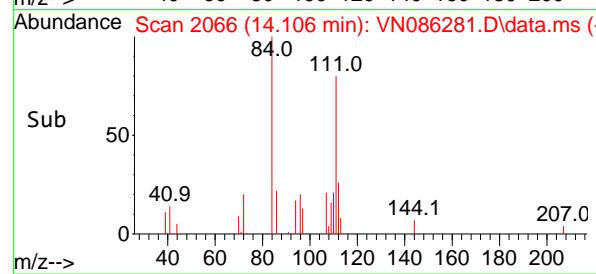
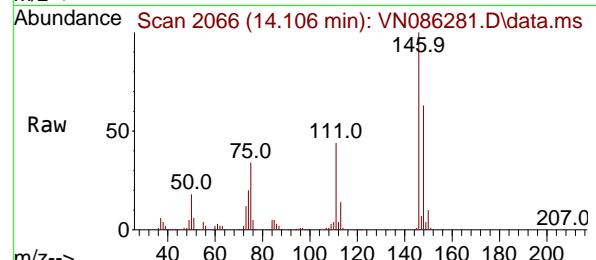
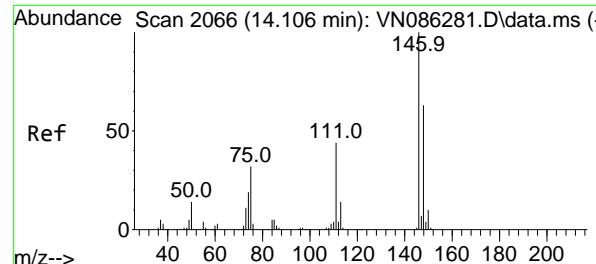
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#90
Hexachloroethane
Concen: 46.447 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

Tgt Ion:117 Resp: 90009
Ion Ratio Lower Upper
117 100
201 62.8 31.4 94.2





#91

1,2-Dichlorobenzene

Concen: 47.181 ug/l

RT: 14.106 min Scan# 2

Instrument :

Delta R.T. 0.000 min

Lab File:

VN086281.D

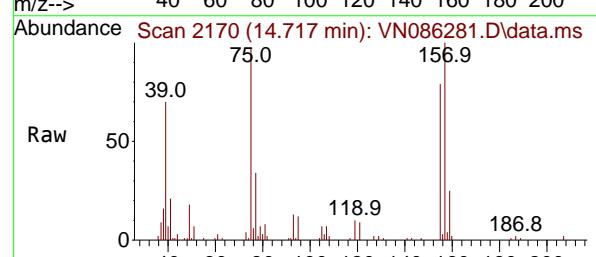
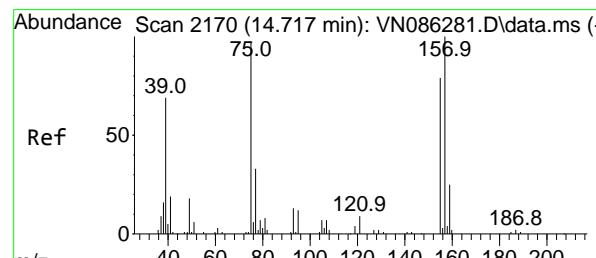
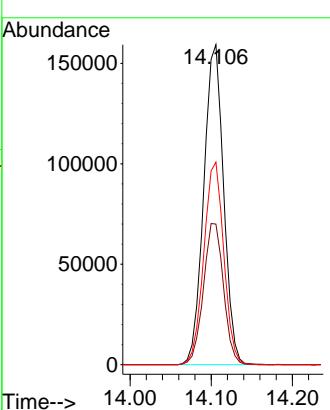
Acq: 15 Apr 2025 13:51

MSVOA_N

ClientSampleId :

VSTDICCC050

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#92

1,2-Dibromo-3-Chloropropane

Concen: 46.887 ug/l

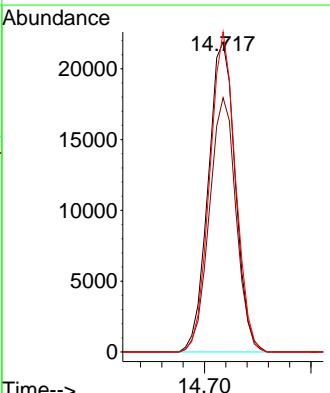
RT: 14.717 min Scan# 2170

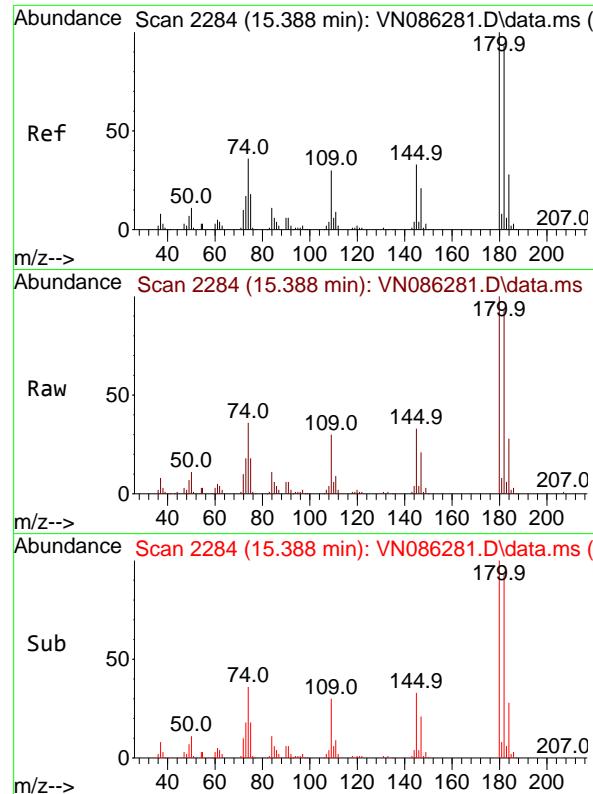
Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

| Tgt | Ion | Ion Ratio | Resp: | Lower | Upper |
|-----|------|-----------|-------|-------|-------|
| 75 | 100 | | 38625 | | |
| 155 | 80.6 | 40.3 | 120.9 | | |
| 157 | 98.1 | 49.0 | 147.2 | | |



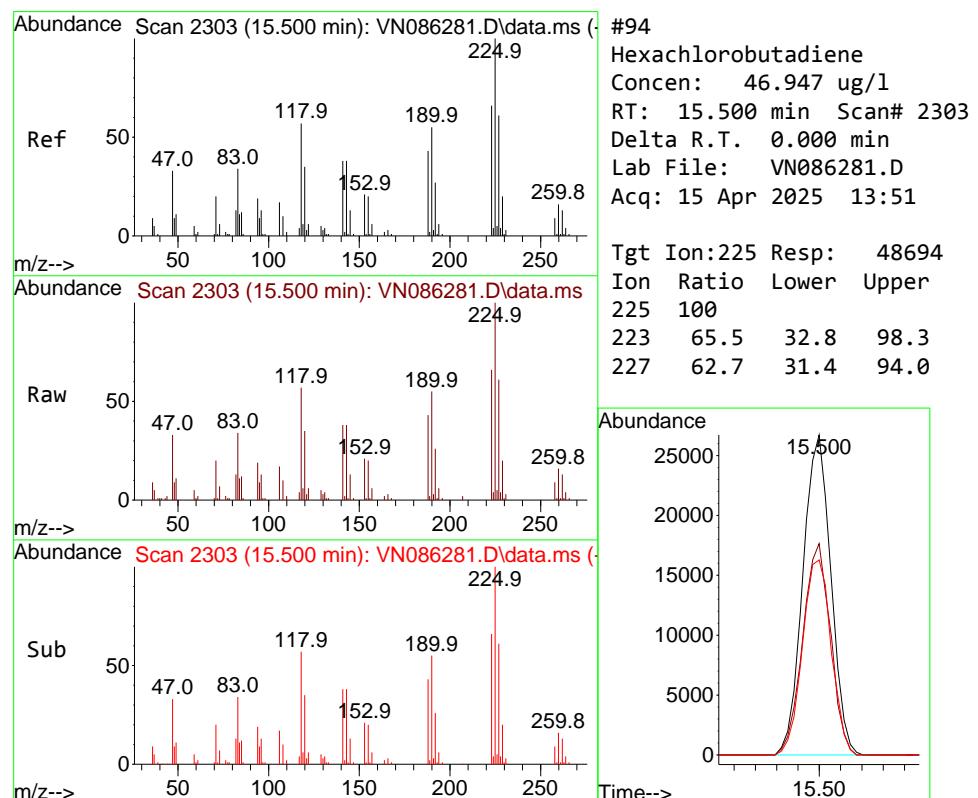
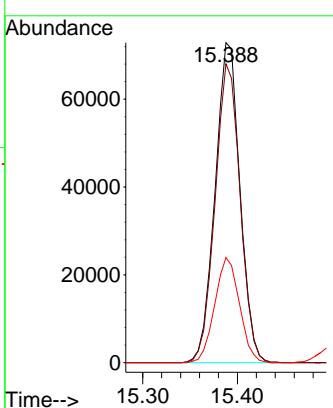


#93
1,2,4-Trichlorobenzene
Concen: 48.375 ug/l
RT: 15.388 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

Instrument : MSVOA_N
ClientSampleId : VSTDICCC050

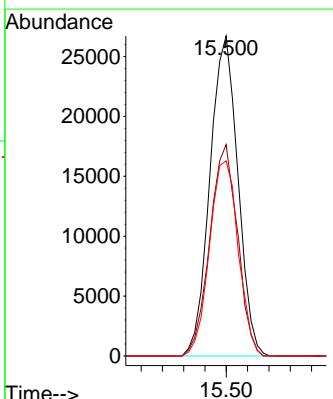
Manual Integrations
APPROVED

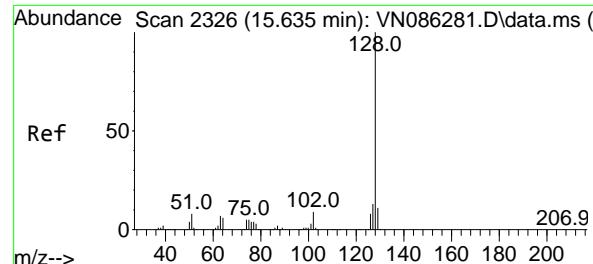
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



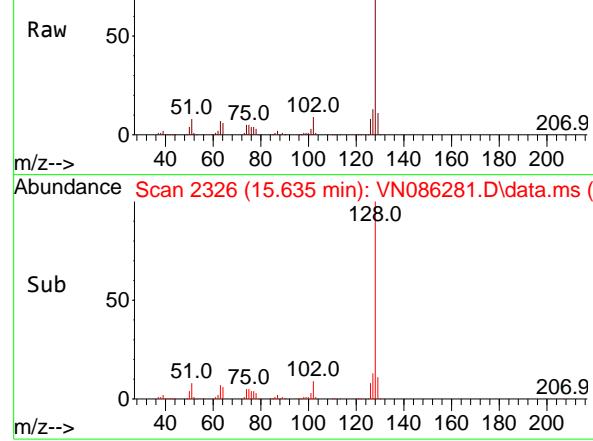
#94
Hexachlorobutadiene
Concen: 46.947 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

Tgt Ion:225 Resp: 48694
Ion Ratio Lower Upper
225 100
223 65.5 32.8 98.3
227 62.7 31.4 94.0

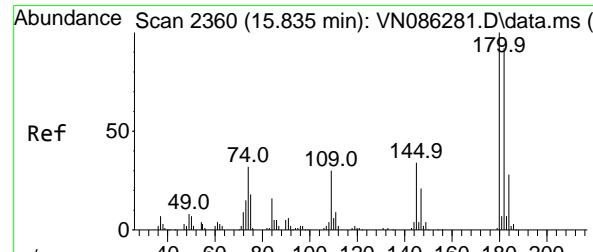
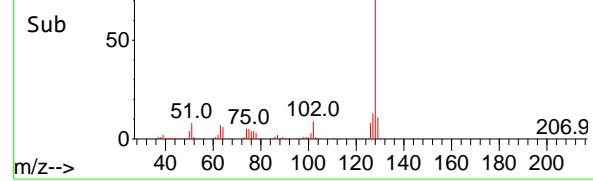




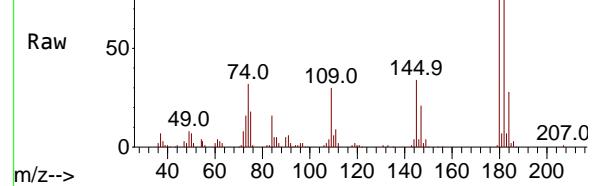
Abundance Scan 2326 (15.635 min): VN086281.D\data.ms (-)



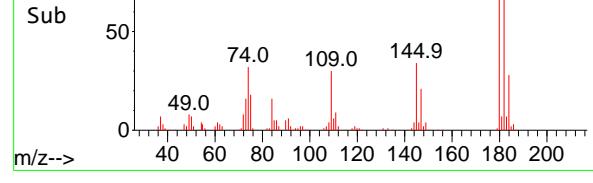
Abundance Scan 2326 (15.635 min): VN086281.D\data.ms (-)



Abundance Scan 2360 (15.835 min): VN086281.D\data.ms (-)



Abundance Scan 2360 (15.835 min): VN086281.D\data.ms (-)



#95

Naphthalene

Concen: 47.708 ug/l

RT: 15.635 min Scan# 2

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:128 Resp: 46468

Ion Ratio Lower Upper

128 100

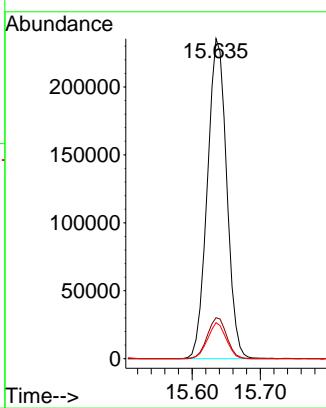
127 12.8 10.2 15.4

129 10.8 8.6 13.0

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#96

1,2,3-Trichlorobenzene

Concen: 47.249 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

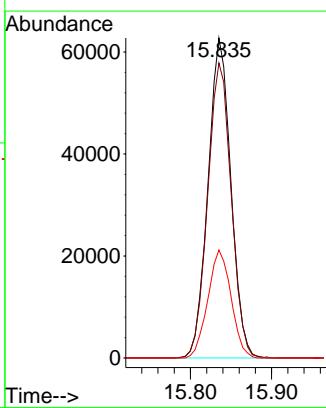
Tgt Ion:180 Resp: 122910

Ion Ratio Lower Upper

180 100

182 94.7 47.3 142.0

145 34.3 17.2 51.5



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041525\
 Data File : VN086282.D
 Acq On : 15 Apr 2025 14:29
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Quant Time: Apr 16 03:58:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 03:42:50 2025
 Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :John Carlane 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|------------------------------------|----------------|------|----------|------------|-------|----------|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 8.218 | 168 | 228089 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 9.100 | 114 | 422902 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.865 | 117 | 380274 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.788 | 152 | 182297 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.571 | 65 | 322920 | 97.633 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery | = 195.260% | # | |
| 35) Dibromofluoromethane | 8.165 | 113 | 163696 | 83.402 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery | = 166.800% | # | |
| 50) Toluene-d8 | 10.565 | 98 | 1046538 | 99.767 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery | = 199.540% | # | |
| 62) 4-Bromofluorobenzene | 12.847 | 95 | 394671 | 103.153 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery | = 206.300% | # | |
| Target Compounds | | | | | | |
| | | | | Qvalue | | |
| 2) Dichlorodifluoromethane | 2.124 | 85 | 270450 | 100.025 | ug/l | 100 |
| 3) Chloromethane | 2.359 | 50 | 362586 | 92.270 | ug/l | 99 |
| 4) Vinyl Chloride | 2.512 | 62 | 359654 | 95.910 | ug/l | 99 |
| 5) Bromomethane | 2.930 | 94 | 157044 | 93.105 | ug/l | 99 |
| 6) Chloroethane | 3.106 | 64 | 232218 | 92.528 | ug/l | 98 |
| 7) Trichlorofluoromethane | 3.494 | 101 | 398967 | 96.050 | ug/l | 97 |
| 8) Diethyl Ether | 3.959 | 74 | 172130 | 94.924 | ug/l | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 4.371 | 101 | 242697 | 96.585 | ug/l | 99 |
| 10) Methyl Iodide | 4.583 | 142 | 287740 | 104.156 | ug/l | 99 |
| 11) Tert butyl alcohol | 5.518 | 59 | 262412 | 434.831 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 4.336 | 96 | 254035 | 94.627 | ug/l | 97 |
| 13) Acrolein | 4.171 | 56 | 137131 | 502.553 | ug/l | 97 |
| 14) Allyl chloride | 5.018 | 41 | 435112 | 91.225 | ug/l | 98 |
| 15) Acrylonitrile | 5.712 | 53 | 713644 | 478.368 | ug/l | 99 |
| 16) Acetone | 4.424 | 43 | 563323 | 498.290 | ug/l | 99 |
| 17) Carbon Disulfide | 4.712 | 76 | 685619 | 85.294 | ug/l | 99 |
| 18) Methyl Acetate | 5.018 | 43 | 374831 | 94.410 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.794 | 73 | 918634 | 93.089 | ug/l | 99 |
| 20) Methylene Chloride | 5.271 | 84 | 286733 | 93.774 | ug/l | 99 |
| 21) trans-1,2-Dichloroethene | 5.783 | 96 | 264504 | 94.241 | ug/l | 100 |
| 22) Diisopropyl ether | 6.665 | 45 | 970652 | 93.497 | ug/l | 99 |
| 23) Vinyl Acetate | 6.600 | 43 | 3184505 | 438.915 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 6.565 | 63 | 525385 | 95.914 | ug/l | 100 |
| 25) 2-Butanone | 7.477 | 43 | 958217 | 465.437 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 7.488 | 77 | 470852 | 96.005 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 7.482 | 96 | 328329 | 94.252 | ug/l | 100 |
| 28) Bromochloromethane | 7.812 | 49 | 230762 | 99.357 | ug/l | 99 |
| 29) Tetrahydrofuran | 7.835 | 42 | 623822 | 453.130 | ug/l | 100 |
| 30) Chloroform | 7.959 | 83 | 503712 | 93.611 | ug/l | 100 |
| 31) Cyclohexane | 8.253 | 56 | 484648 | 90.418 | ug/l | 99 |
| 32) 1,1,1-Trichloroethane | 8.165 | 97 | 432964 | 94.058 | ug/l | 97 |
| 36) 1,1-Dichloropropene | 8.365 | 75 | 378663 | 96.591 | ug/l | 100 |
| 37) Ethyl Acetate | 7.553 | 43 | 371298 | 89.962 | ug/l | 100 |
| 38) Carbon Tetrachloride | 8.359 | 117 | 360081 | 96.450 | ug/l | 99 |
| 39) Methylcyclohexane | 9.600 | 83 | 448842 | 96.325 | ug/l | 98 |
| 40) Benzene | 8.600 | 78 | 1193479 | 95.020 | ug/l | 98 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041525\
 Data File : VN086282.D
 Acq On : 15 Apr 2025 14:29
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Quant Time: Apr 16 03:58:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 03:42:50 2025
 Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :John Carlane 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile | 7.777 | 41 | 219337 | 91.695 | ug/l | 100 |
| 42) 1,2-Dichloroethane | 8.665 | 62 | 377081 | 94.143 | ug/l | 99 |
| 43) Isopropyl Acetate | 8.682 | 43 | 704184 | 100.085 | ug/l | 100 |
| 44) Trichloroethene | 9.347 | 130 | 288832 | 97.020 | ug/l | 98 |
| 45) 1,2-Dichloropropane | 9.618 | 63 | 293625 | 95.501 | ug/l | 99 |
| 46) Dibromomethane | 9.706 | 93 | 191324 | 97.667 | ug/l | 100 |
| 47) Bromodichloromethane | 9.882 | 83 | 403514 | 95.372 | ug/l | 97 |
| 48) Methyl methacrylate | 9.676 | 41 | 326384 | 90.052 | ug/l | 98 |
| 49) 1,4-Dioxane | 9.688 | 88 | 98711 | 1601.137 | ug/l | 98 |
| 51) 4-Methyl-2-Pentanone | 10.441 | 43 | 1989761 | 470.803 | ug/l | 99 |
| 52) Toluene | 10.629 | 92 | 757019 | 96.592 | ug/l | 100 |
| 53) t-1,3-Dichloropropene | 10.829 | 75 | 468739 | 99.248 | ug/l | 100 |
| 54) cis-1,3-Dichloropropene | 10.312 | 75 | 496721 | 95.755 | ug/l | 99 |
| 55) 1,1,2-Trichloroethane | 11.012 | 97 | 264481 | 93.795 | ug/l | 97 |
| 56) Ethyl methacrylate | 10.870 | 69 | 494791 | 95.461 | ug/l | 100 |
| 57) 1,3-Dichloropropane | 11.159 | 76 | 482562 | 96.455 | ug/l | 99 |
| 58) 2-Chloroethyl Vinyl ether | 10.159 | 63 | 1242387 | 505.011 | ug/l | 99 |
| 59) 2-Hexanone | 11.194 | 43 | 1476474 | 470.996 | ug/l | 100 |
| 60) Dibromochloromethane | 11.359 | 129 | 301498 | 97.371 | ug/l | 100 |
| 61) 1,2-Dibromoethane | 11.465 | 107 | 273587 | 96.156 | ug/l | 100 |
| 64) Tetrachloroethene | 11.100 | 164 | 281669 | 96.294 | ug/l | 97 |
| 65) Chlorobenzene | 11.888 | 112 | 805194 | 94.881 | ug/l | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 11.959 | 131 | 264532 | 94.488 | ug/l | 100 |
| 67) Ethyl Benzene | 11.959 | 91 | 1476238 | 96.398 | ug/l | 100 |
| 68) m/p-Xylenes | 12.070 | 106 | 1117098 | 194.681 | ug/l | 98 |
| 69) o-Xylene | 12.394 | 106 | 546019 | 96.221 | ug/l | 99 |
| 70) Styrene | 12.406 | 104 | 947293 | 100.188 | ug/l | 100 |
| 71) Bromoform | 12.576 | 173 | 201110 | 95.410 | ug/l # | 99 |
| 73) Isopropylbenzene | 12.694 | 105 | 1351009 | 90.597 | ug/l | 100 |
| 74) N-amyl acetate | 12.488 | 43 | 641647 | 86.431 | ug/l | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.935 | 83 | 359278 | 83.793 | ug/l | 99 |
| 76) 1,2,3-Trichloropropane | 12.988 | 75 | 379247m | 88.555 | ug/l | |
| 77) Bromobenzene | 12.976 | 156 | 303696 | 91.913 | ug/l | 98 |
| 78) n-propylbenzene | 13.035 | 91 | 1640989 | 93.386 | ug/l | 99 |
| 79) 2-Chlorotoluene | 13.123 | 91 | 1000943 | 91.031 | ug/l | 99 |
| 80) 1,3,5-Trimethylbenzene | 13.170 | 105 | 1125981 | 92.254 | ug/l | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.735 | 75 | 175887m | 98.197 | ug/l | |
| 82) 4-Chlorotoluene | 13.217 | 91 | 1025113 | 93.852 | ug/l | 99 |
| 83) tert-Butylbenzene | 13.435 | 119 | 975268 | 92.219 | ug/l | 98 |
| 84) 1,2,4-Trimethylbenzene | 13.482 | 105 | 1150791 | 92.628 | ug/l | 100 |
| 85) sec-Butylbenzene | 13.611 | 105 | 1359583 | 92.684 | ug/l | 99 |
| 86) p-Isopropyltoluene | 13.723 | 119 | 1161224 | 96.040 | ug/l | 100 |
| 87) 1,3-Dichlorobenzene | 13.729 | 146 | 586366 | 94.402 | ug/l | 100 |
| 88) 1,4-Dichlorobenzene | 13.806 | 146 | 582329 | 93.077 | ug/l | 100 |
| 89) n-Butylbenzene | 14.053 | 91 | 1061099 | 99.009 | ug/l | 99 |
| 90) Hexachloroethane | 14.329 | 117 | 196292 | 96.516 | ug/l | 98 |
| 91) 1,2-Dichlorobenzene | 14.106 | 146 | 547527 | 90.920 | ug/l | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.717 | 75 | 77795 | 89.984 | ug/l | 99 |
| 93) 1,2,4-Trichlorobenzene | 15.388 | 180 | 281040 | 97.461 | ug/l | 100 |
| 94) Hexachlorobutadiene | 15.500 | 225 | 101506 | 93.251 | ug/l | 99 |
| 95) Naphthalene | 15.635 | 128 | 975079 | 95.390 | ug/l | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.835 | 180 | 258567 | 94.712 | ug/l | 100 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041525\
Data File : VN086282.D
Acq On : 15 Apr 2025 14:29
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Quant Time: Apr 16 03:58:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 16 03:42:50 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :John Carbone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

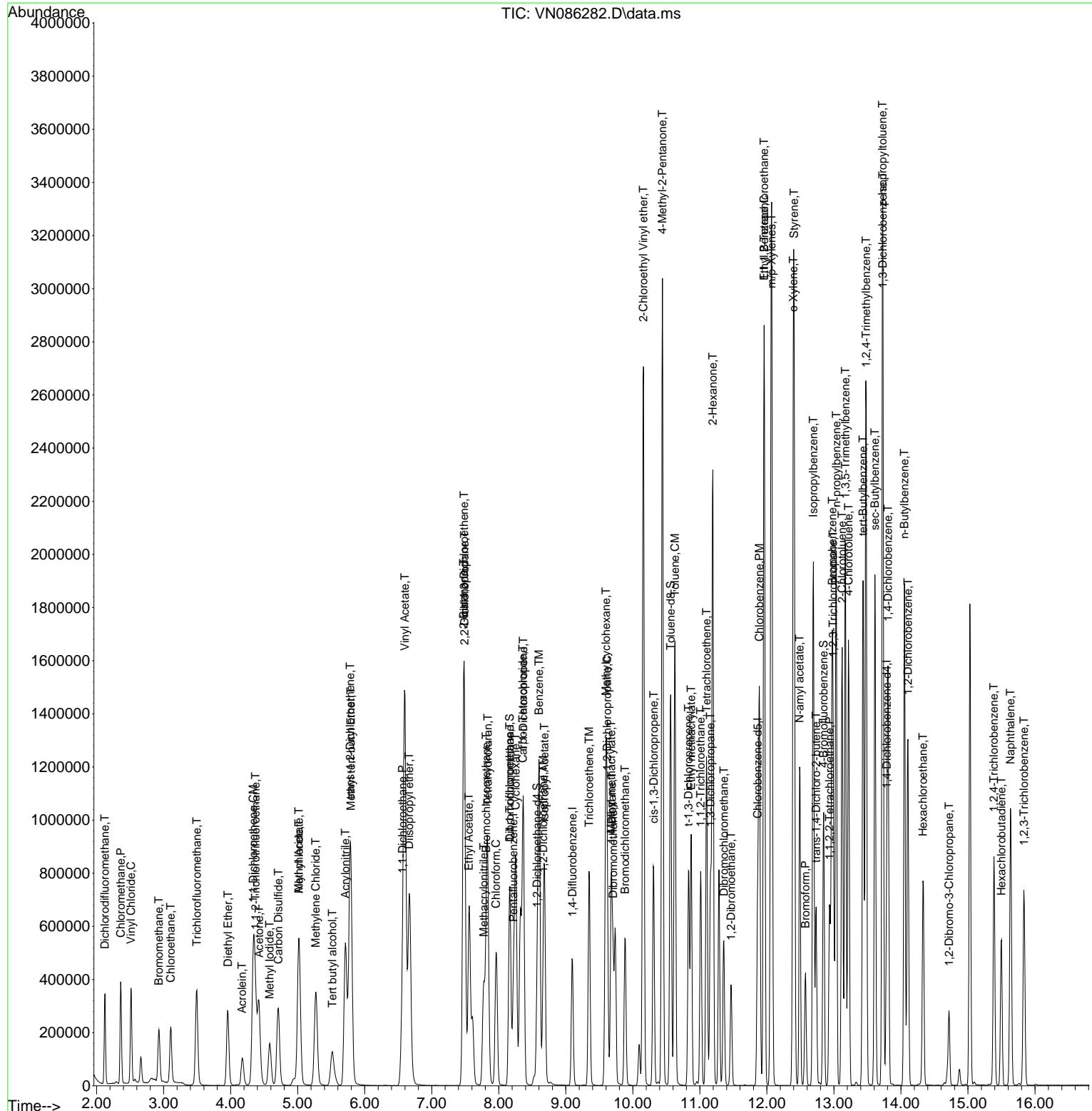
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 Sample : VSTDIICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

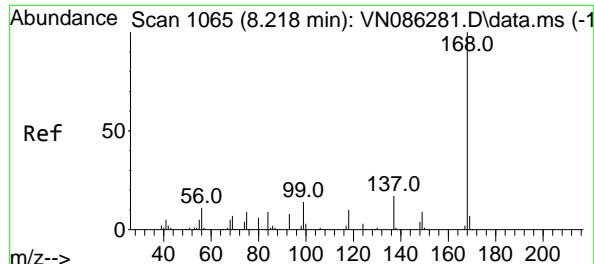
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 Response via : Initial Calibration

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIICC100

**Manual Integrations
APPROVED**

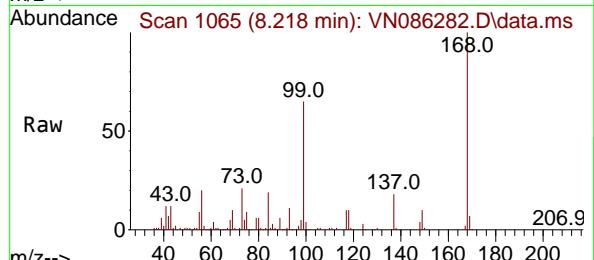
Reviewed By :John Carlane 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025





#1
 Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 8.218 min Scan# 1
 Delta R.T. -0.000 min
 Lab File: VN086282.D
 Acq: 15 Apr 2025 14:29

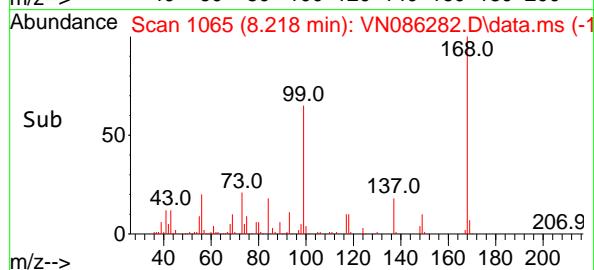
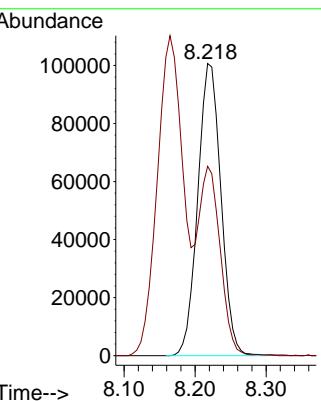
Instrument : MSVOA_N
 ClientSampleId : VSTDICC100



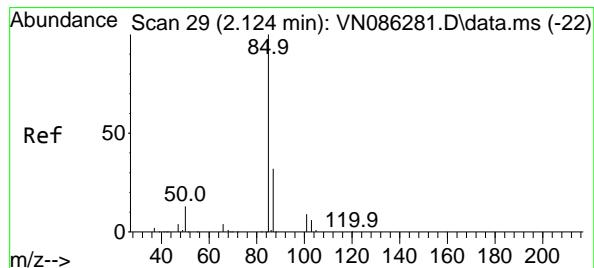
Tgt Ion:168 Resp: 228089
 Ion Ratio Lower Upper
 168 100
 99 64.7 52.5 78.7

Manual Integrations APPROVED

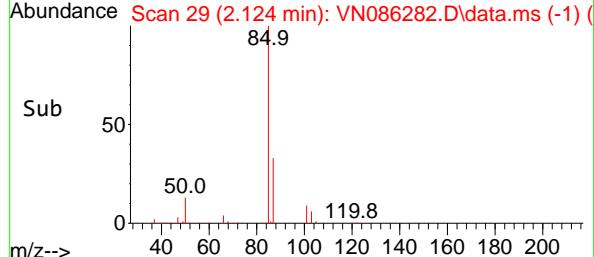
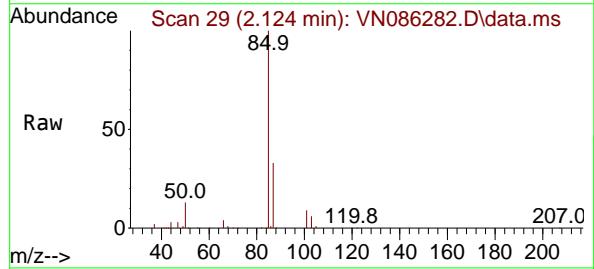
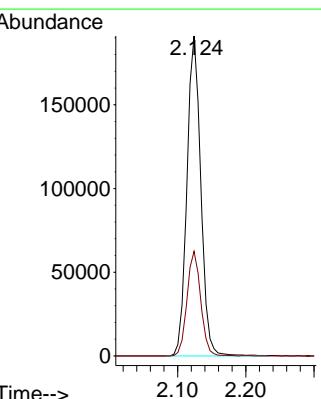
Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025

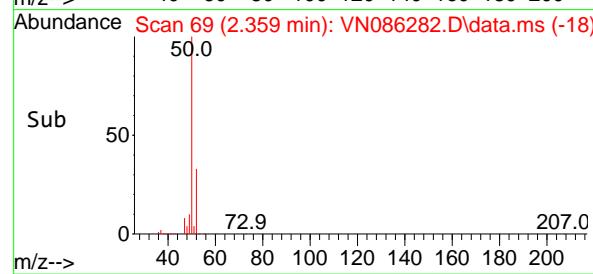
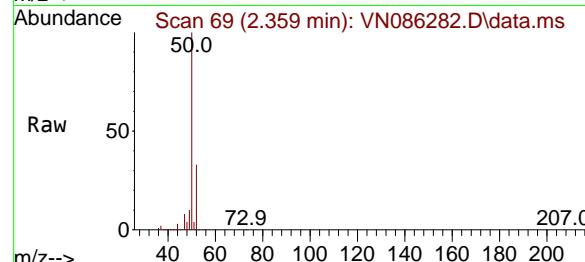
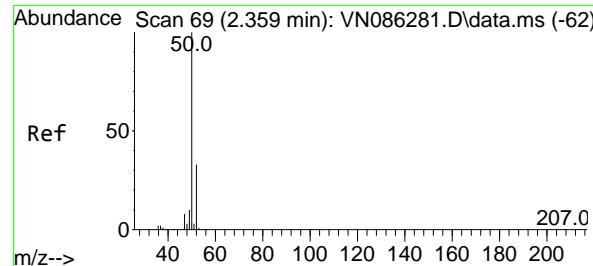


#2
 Dichlorodifluoromethane
 Concen: 100.025 ug/l
 RT: 2.124 min Scan# 29
 Delta R.T. -0.000 min
 Lab File: VN086282.D
 Acq: 15 Apr 2025 14:29



Tgt Ion: 85 Resp: 270450
 Ion Ratio Lower Upper
 85 100
 87 32.7 16.3 48.8



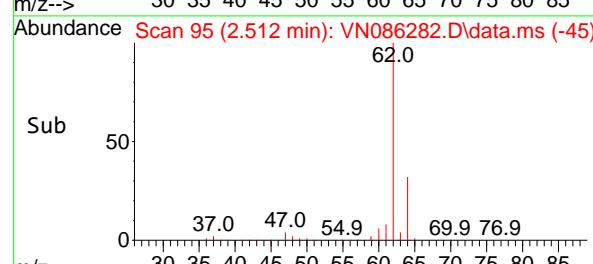
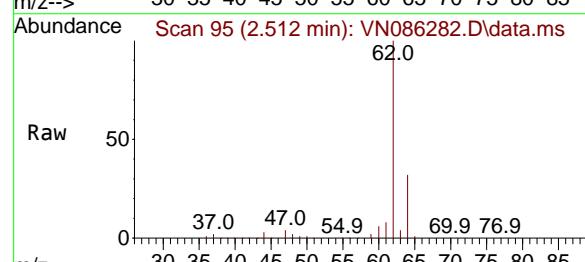
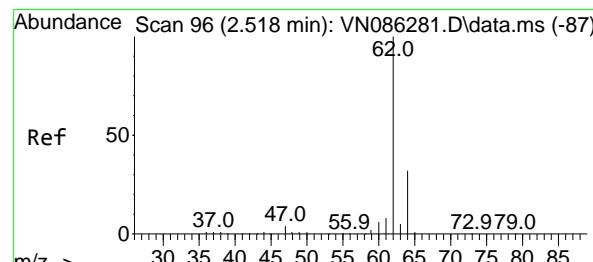
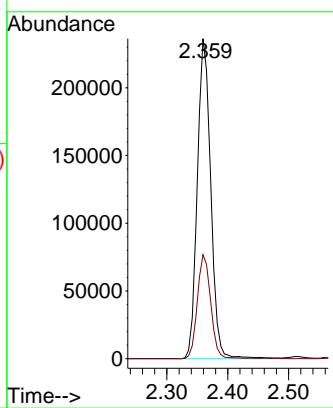


#3
 Chloromethane
 Concen: 92.270 ug/l
 RT: 2.359 min Scan# 6
 Delta R.T. -0.000 min
 Lab File: VN086282.D
 Acq: 15 Apr 2025 14:29

Instrument : MSVOA_N
 ClientSampleId : VSTDICC100

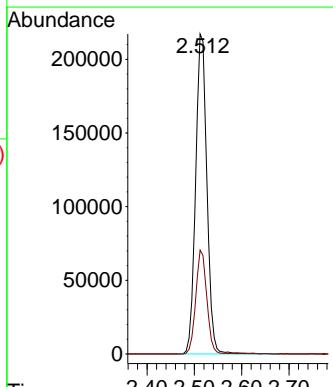
Manual Integrations APPROVED

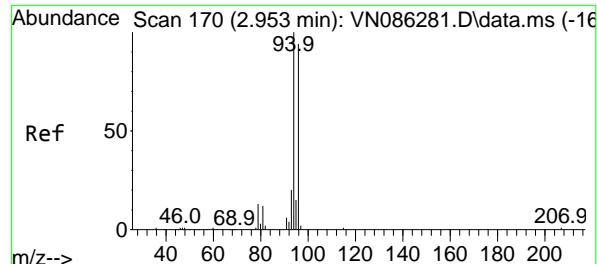
Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025



#4
 Vinyl Chloride
 Concen: 95.910 ug/l
 RT: 2.512 min Scan# 95
 Delta R.T. -0.006 min
 Lab File: VN086282.D
 Acq: 15 Apr 2025 14:29

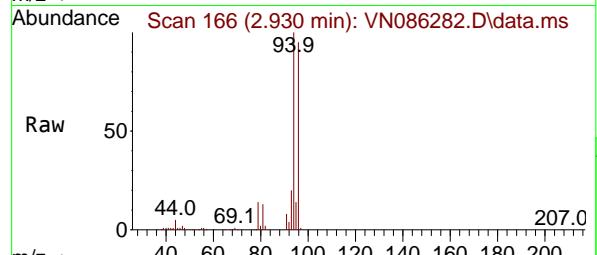
Tgt Ion: 62 Resp: 359654
 Ion Ratio Lower Upper
 62 100
 64 32.4 25.6 38.4





#5
Bromomethane
Concen: 93.105 ug/l
RT: 2.930 min Scan# 1
Delta R.T. -0.024 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29

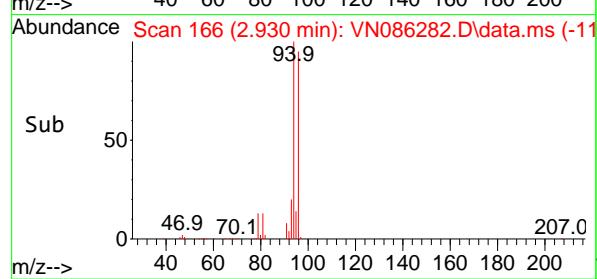
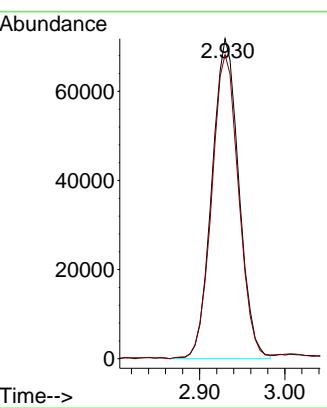
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ClientSampleId : VSTDICC100



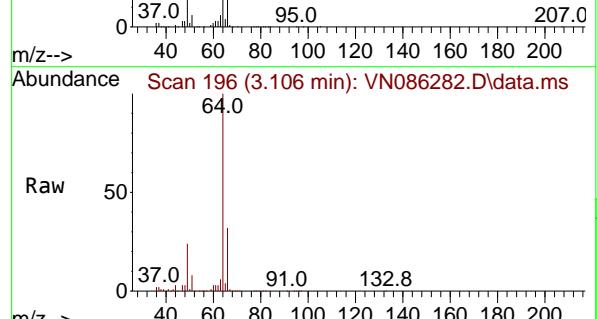
Tgt Ion: 94 Resp: 15704
Ion Ratio Lower Upper
94 100
96 95.0 75.2 112.8

Manual Integrations
APPROVED

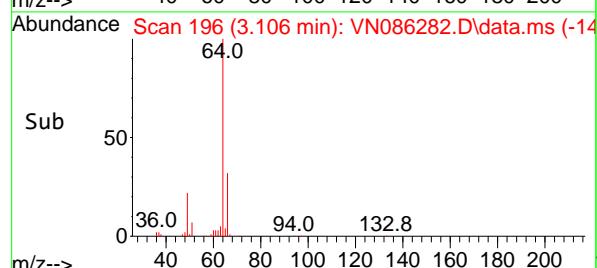
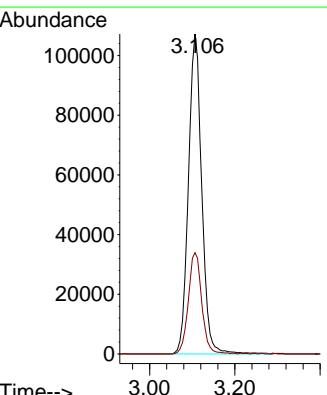
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#6
Chloroethane
Concen: 92.528 ug/l
RT: 3.106 min Scan# 196
Delta R.T. -0.012 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29

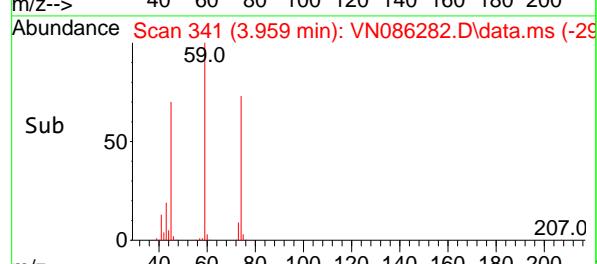
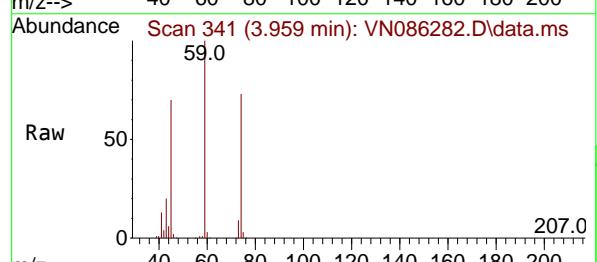
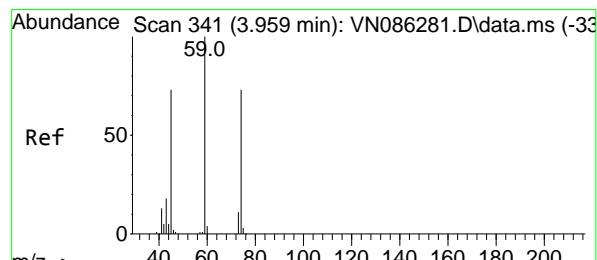
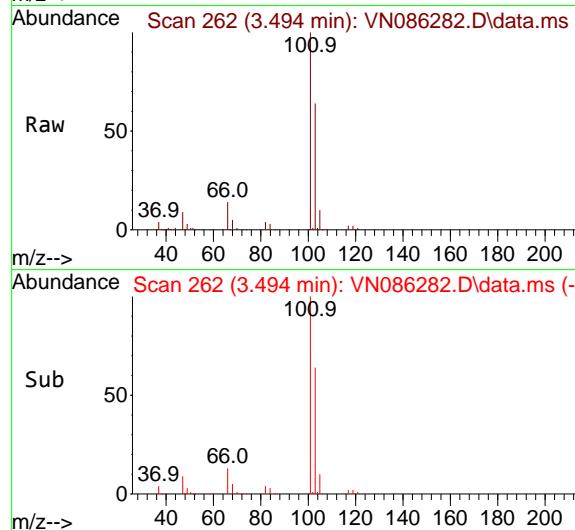
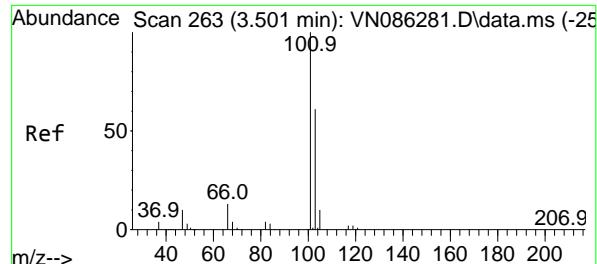


Tgt Ion: 64 Resp: 232218
Ion Ratio Lower Upper
64 100
66 31.6 26.2 39.2



Sub 50
0
m/z--> 40 60 80 100 120 140 160 180 200

64.0
36.0 94.0 132.8



#7

Trichlorofluoromethane

Concen: 96.050 ug/l

RT: 3.494 min Scan# 2

Delta R.T. -0.006 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

Instrument :

MSVOA_N

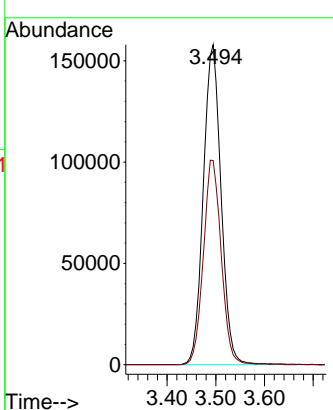
ClientSampleId :

VSTDICC100

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#8

Diethyl Ether

Concen: 94.924 ug/l

RT: 3.959 min Scan# 341

Delta R.T. -0.000 min

Lab File: VN086282.D

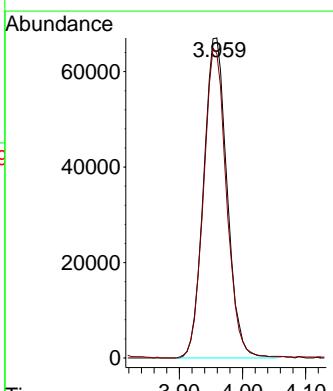
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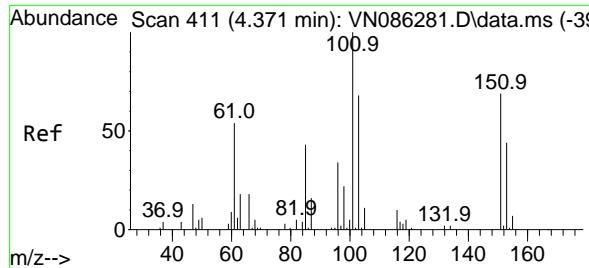
Tgt Ion: 74 Resp: 172130

Ion Ratio Lower Upper

74 100

45 95.3 48.0 144.2



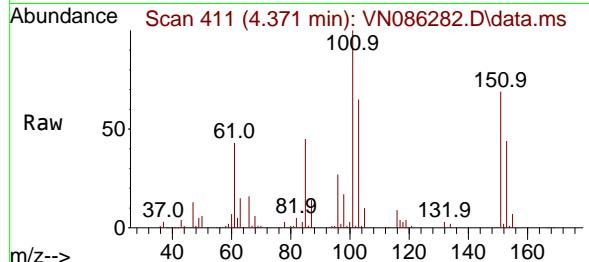


#9
1,1,2-Trichlorotrifluoroethane
Concen: 96.585 ug/l
RT: 4.371 min Scan# 41 Instrum
Delta R.T. -0.000 min MSVOA
Lab File: VN086282.D ClientS
Acq: 15 Apr 2025 14:29 VSTDIC

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

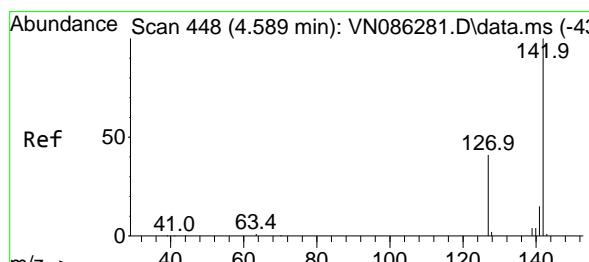
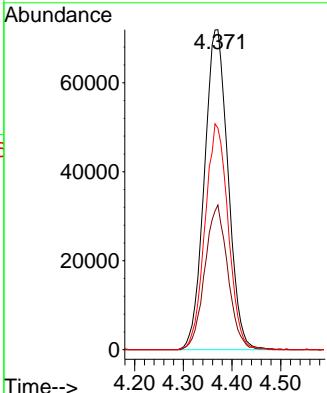
**Manual Integrations
APPROVED**

Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



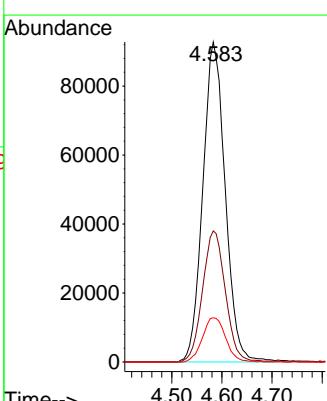
Mass spectrum showing relative abundance (Sub) versus m/z . The x-axis ranges from 40 to 160. The y-axis shows relative abundance with a scale break between 50 and 100. The base peak is at m/z 100.9. Other labeled peaks include 37.0, 61.0, 81.9, 131.9, and 150.9.

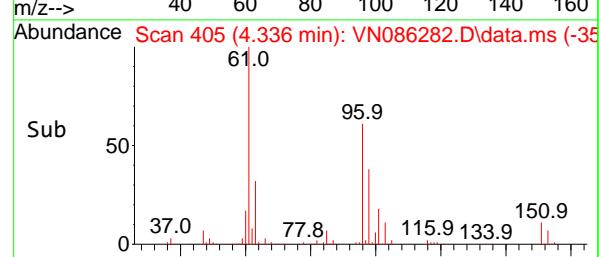
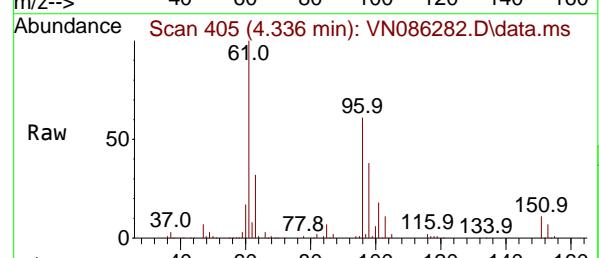
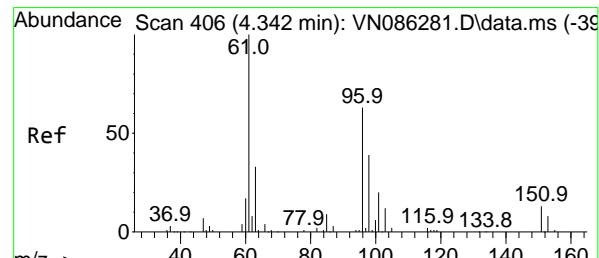
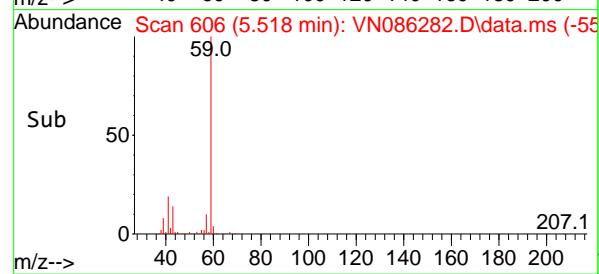
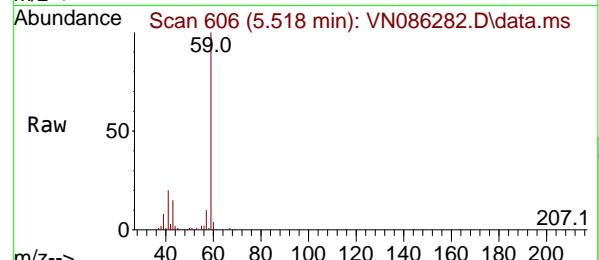
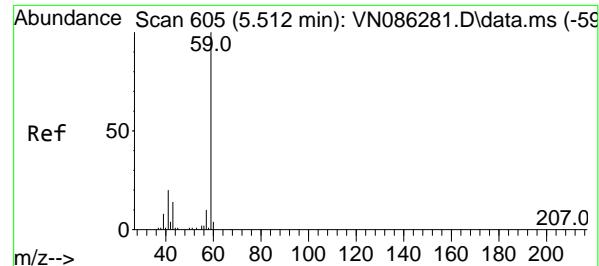
| m/z | Relative Abundance (Sub) |
|-------|--------------------------|
| 37.0 | ~10 |
| 61.0 | ~45 |
| 81.9 | ~15 |
| 100.9 | 100 |
| 131.9 | ~10 |
| 150.9 | ~55 |



```
#10  
Methyl Iodide  
Concen: 104.156 ug/l  
RT: 4.583 min Scan# 447  
Delta R.T. -0.006 min  
Lab File: VN086282.D  
Acq: 15 Apr 2025 14:29
```

| Tgt | Ion:142 | Resp: | 287740 |
|-----|---------|-------|--------|
| Ion | Ratio | Lower | Upper |
| 142 | 100 | | |
| 127 | 41.0 | 32.7 | 49.1 |
| 141 | 13.8 | 11.7 | 17.5 |





#11

Tert butyl alcohol

Concen: 434.831 ug/l

RT: 5.518 min Scan# 6

Delta R.T. 0.006 min

Lab File: VN086282.D

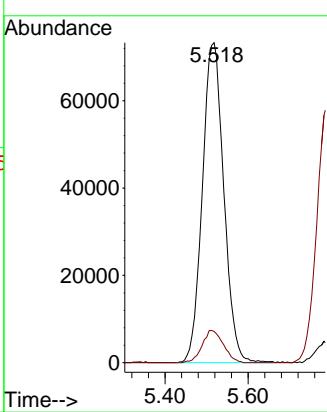
Acq: 15 Apr 2025 14:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

**Manual Integrations
APPROVED**
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

#12

1,1-Dichloroethene

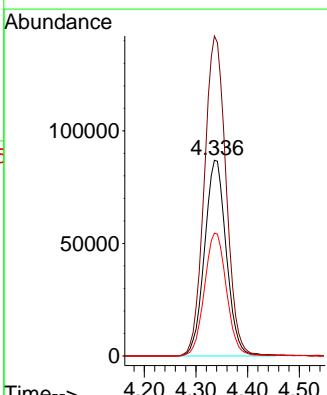
Concen: 94.627 ug/l

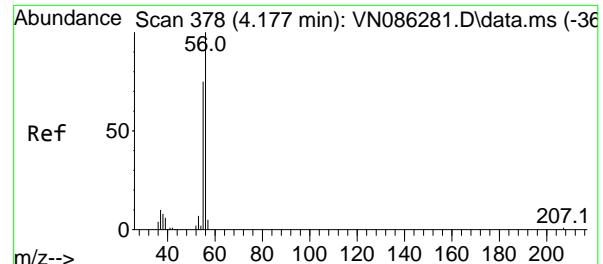
RT: 4.336 min Scan# 405

Delta R.T. -0.006 min

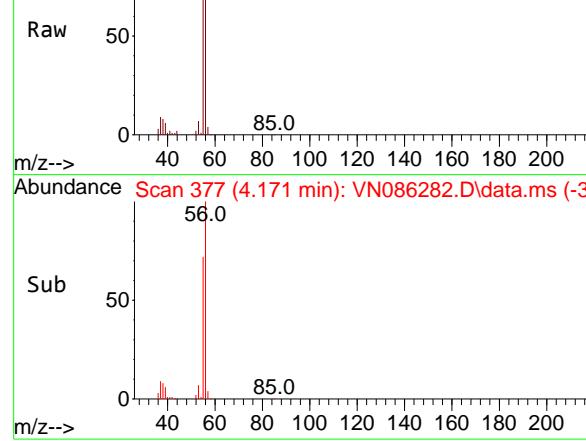
Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

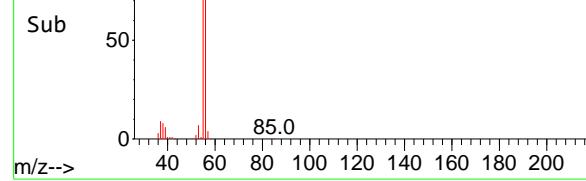
Tgt Ion: 96 Resp: 254035
Ion Ratio Lower Upper
96 100
61 163.5 126.6 189.8
98 62.8 49.6 74.4



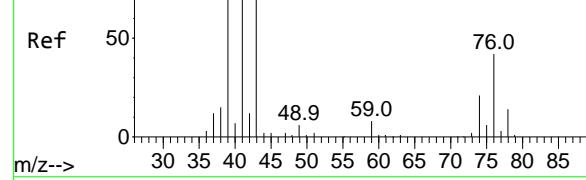
Abundance Scan 377 (4.171 min): VN086282.D\data.ms



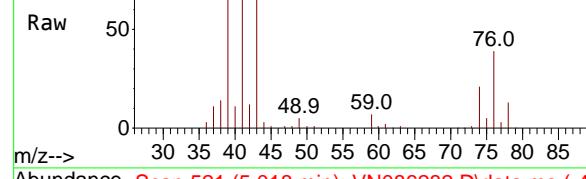
Abundance Scan 377 (4.171 min): VN086282.D\data.ms (-32)



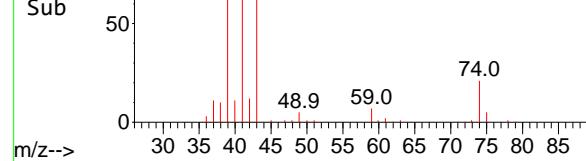
Abundance Scan 522 (5.024 min): VN086281.D\data.ms (-51)



Abundance Scan 521 (5.018 min): VN086282.D\data.ms



Abundance Scan 521 (5.018 min): VN086282.D\data.ms (-47)



#13

Acrolein

Concen: 502.553 ug/l

RT: 4.171 min Scan# 3

Delta R.T. -0.006 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

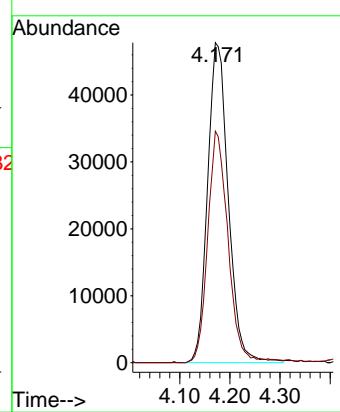
Instrument:

MSVOA_N

ClientSampleId :

VSTDICC100

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#14

Allyl chloride

Concen: 91.225 ug/l

RT: 5.018 min Scan# 521

Delta R.T. -0.006 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

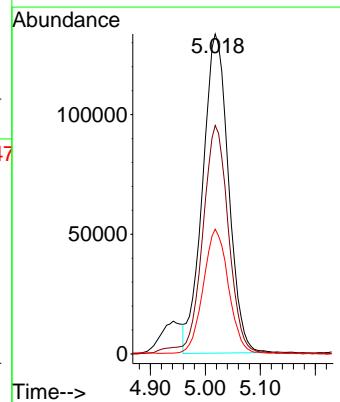
Tgt Ion: 41 Resp: 435112

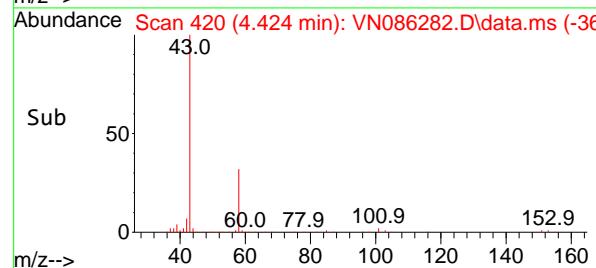
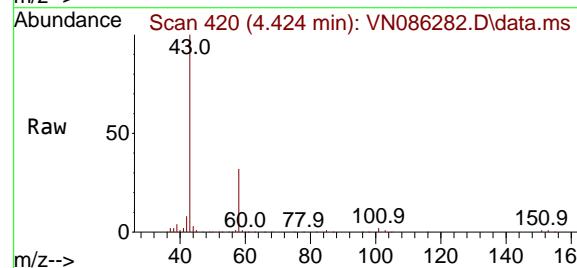
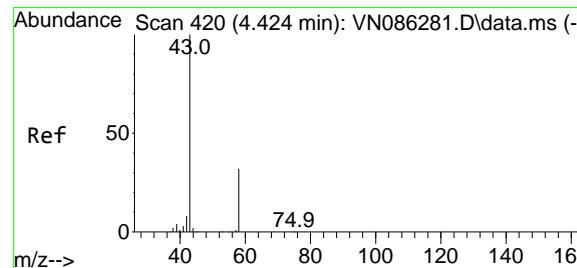
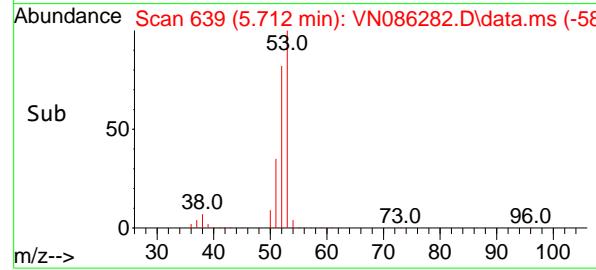
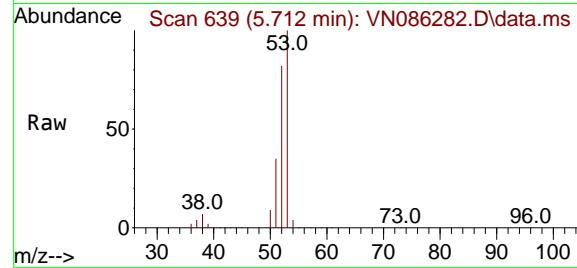
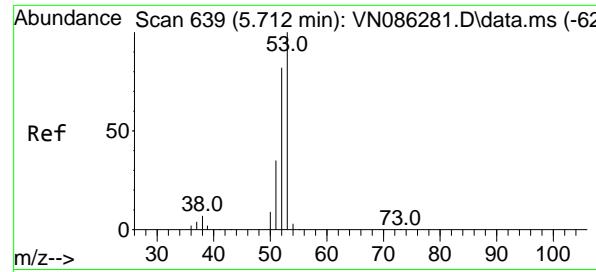
Ion Ratio Lower Upper

41 100

39 72.5 59.2 88.8

76 38.0 31.2 46.8





#15

Acrylonitrile

Concen: 478.368 ug/l

RT: 5.712 min Scan# 6

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 53 Resp: 71364

Ion Ratio Lower Upper

53 100

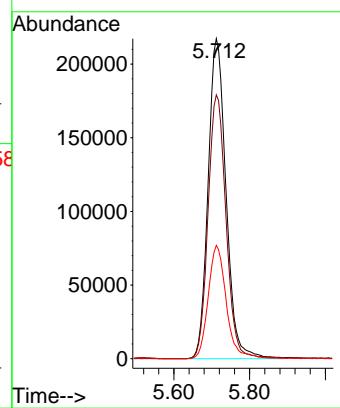
52 82.8 65.5 98.3

51 35.8 28.6 42.8

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#16

Acetone

Concen: 498.290 ug/l

RT: 4.424 min Scan# 420

Delta R.T. -0.000 min

Lab File: VN086282.D

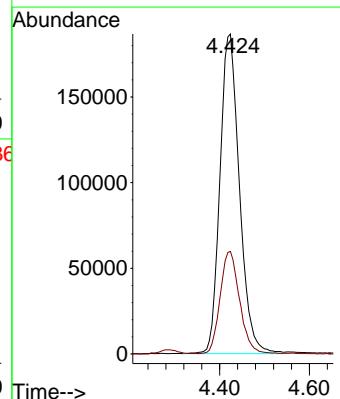
Acq: 15 Apr 2025 14:29

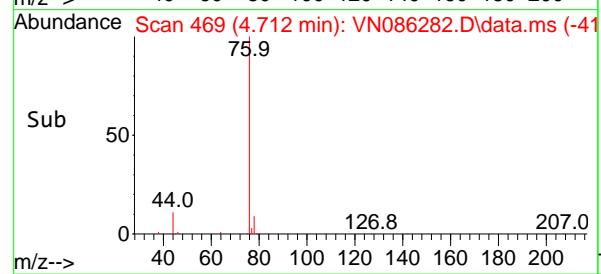
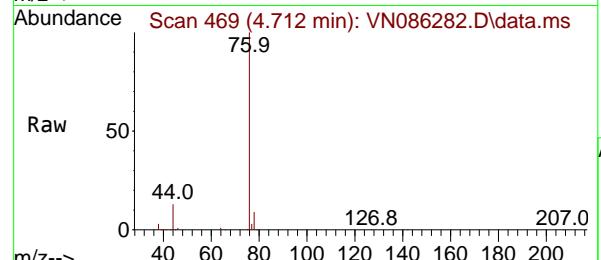
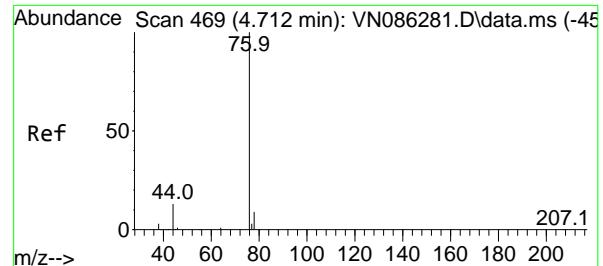
Tgt Ion: 43 Resp: 563323

Ion Ratio Lower Upper

43 100

58 31.9 25.3 37.9





#17

Carbon Disulfide

Concen: 85.294 ug/l

RT: 4.712 min Scan# 4

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

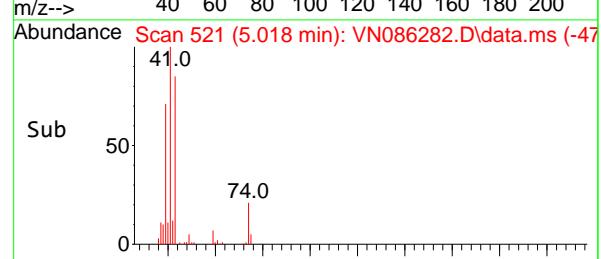
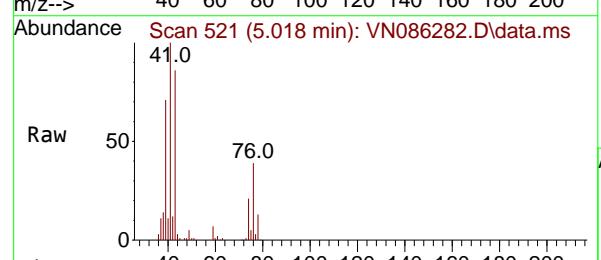
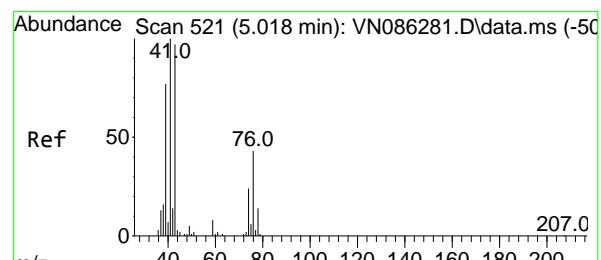
Instrument:

MSVOA_N

ClientSampleId :

VSTDICC100

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#18

Methyl Acetate

Concen: 94.410 ug/l

RT: 5.018 min Scan# 521

Delta R.T. -0.000 min

Lab File: VN086282.D

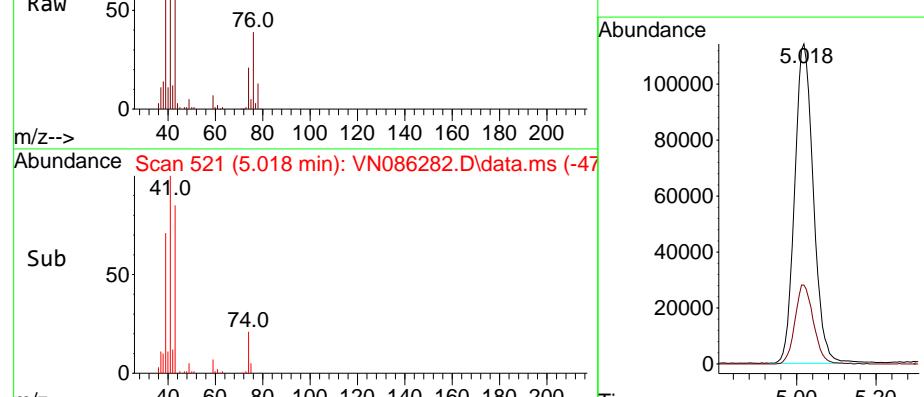
Acq: 15 Apr 2025 14:29

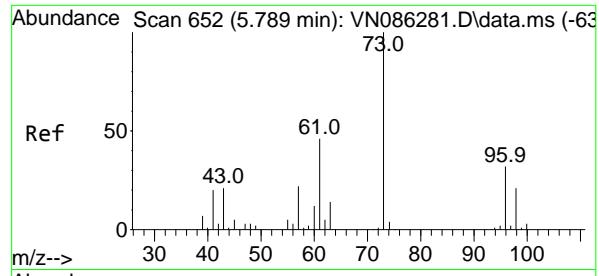
Tgt Ion: 43 Resp: 374831

Ion Ratio Lower Upper

43 100

74 24.4 19.8 29.6

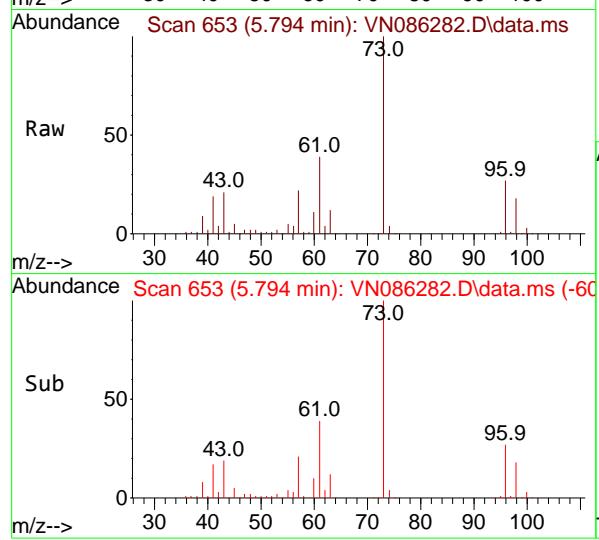




#19

Methyl tert-butyl Ether
Concen: 93.089 ug/l
RT: 5.794 min Scan# 6
Delta R.T. 0.006 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29

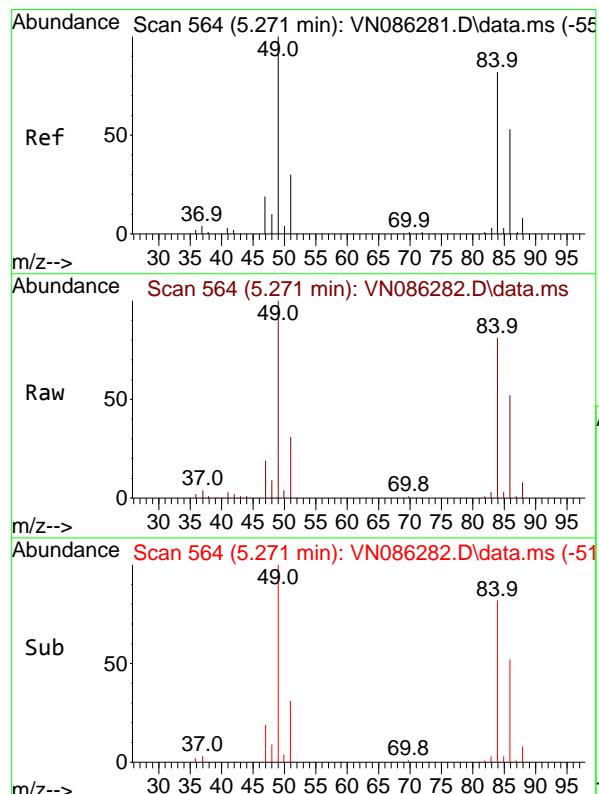
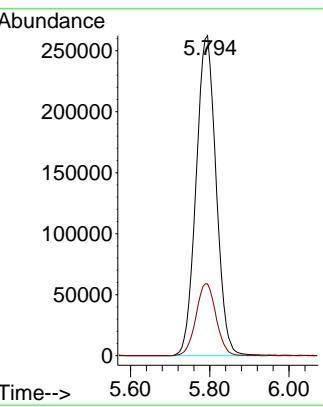
Instrument : MSVOA_N
ClientSampleId : VSTDICC100



Tgt Ion: 73 Resp: 918634
Ion Ratio Lower Upper
73 100
57 22.5 17.6 26.4

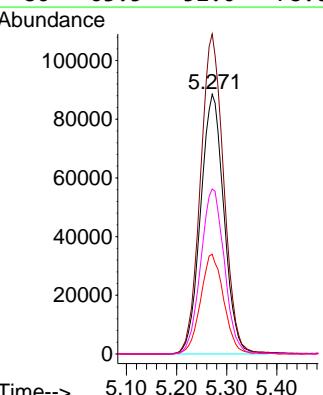
Manual Integrations APPROVED

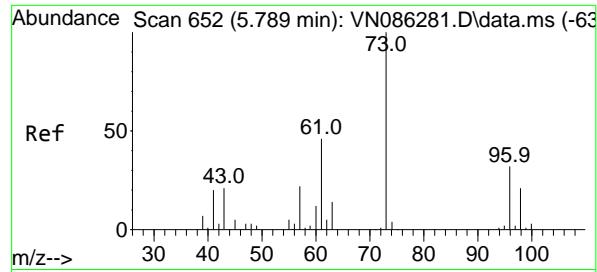
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#20
Methylene Chloride
Concen: 93.774 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.000 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29

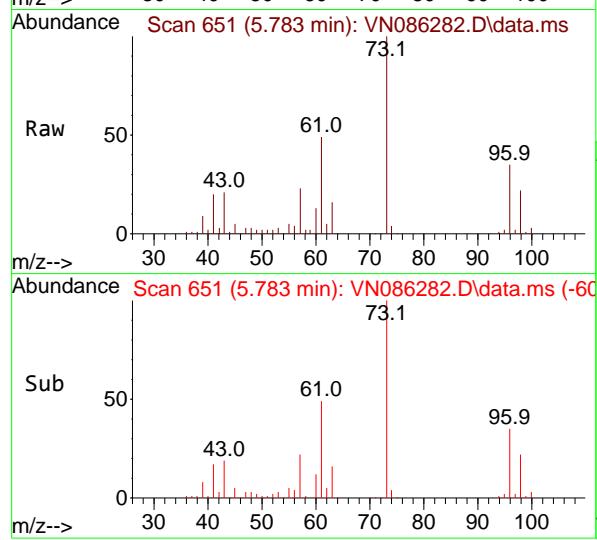
Tgt Ion: 84 Resp: 286733
Ion Ratio Lower Upper
84 100
49 123.2 98.2 147.2
51 38.4 29.8 44.6
86 63.5 52.0 78.0





#21
trans-1,2-Dichloroethene
Concen: 94.241 ug/l
RT: 5.783 min Scan# 6
Delta R.T. -0.006 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29

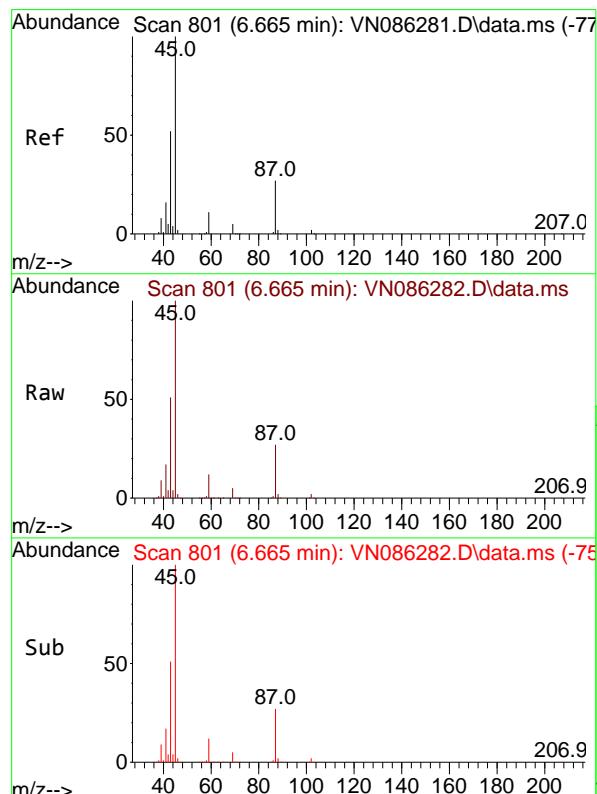
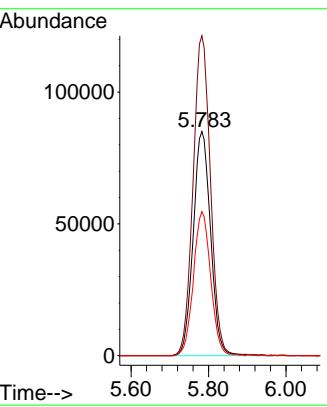
Instrument : MSVOA_N
ClientSampleId : VSTDICC100



Tgt Ion: 96 Resp: 26450
Ion Ratio Lower Upper
96 100
61 142.8 114.6 171.8
98 64.3 51.2 76.8

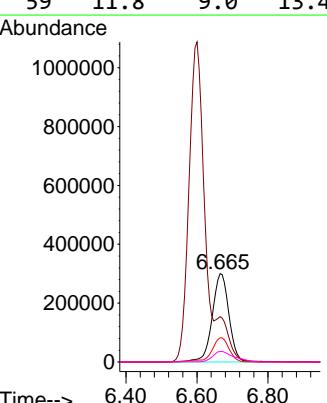
Manual Integrations APPROVED

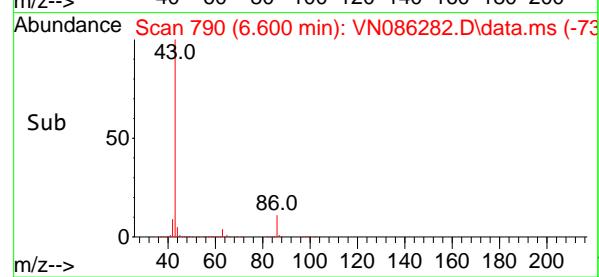
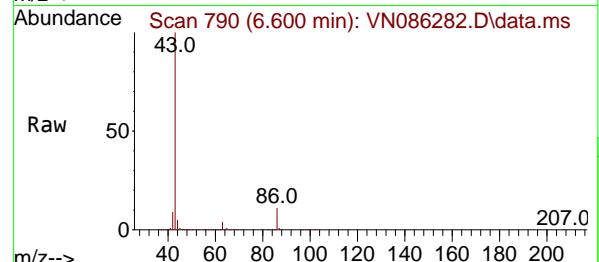
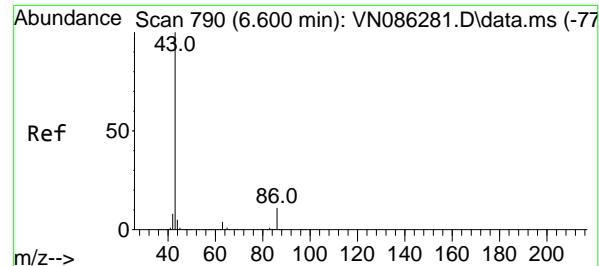
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#22
Diisopropyl ether
Concen: 93.497 ug/l
RT: 6.665 min Scan# 801
Delta R.T. -0.000 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29

Tgt Ion: 45 Resp: 970652
Ion Ratio Lower Upper
45 100
43 51.2 41.8 62.8
87 27.4 21.6 32.4
59 11.8 9.0 13.4





#23

Vinyl Acetate

Concen: 438.915 ug/l

RT: 6.600 min Scan# 7

Delta R.T. -0.000 min

Lab File: VN086282.D

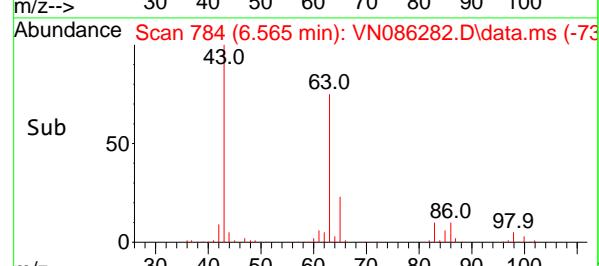
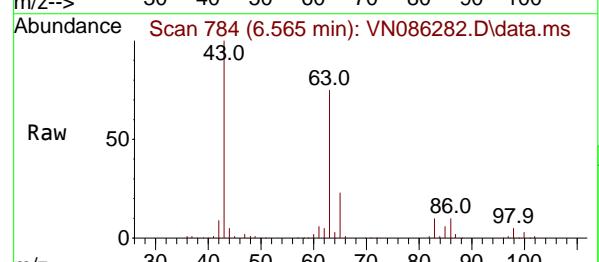
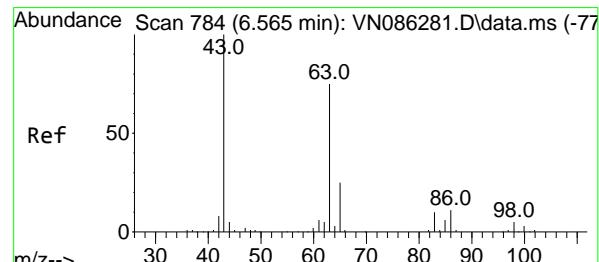
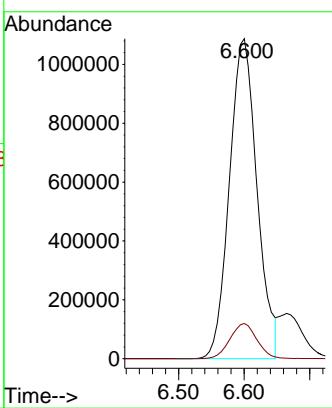
Acq: 15 Apr 2025 14:29

Instrument:

MSVOA_N

ClientSampleId :

VSTDICC100

**Manual Integrations
APPROVED**Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

#24

1,1-Dichloroethane

Concen: 95.914 ug/l

RT: 6.565 min Scan# 784

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

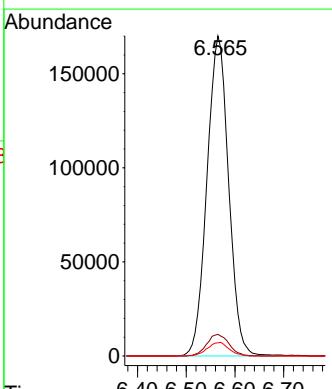
Tgt Ion: 63 Resp: 525385

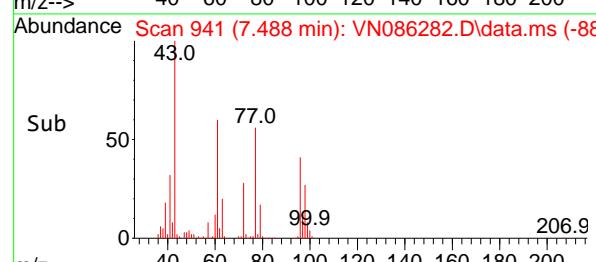
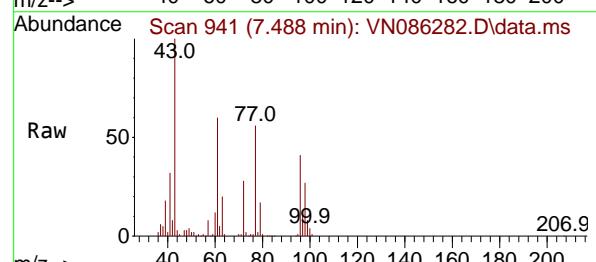
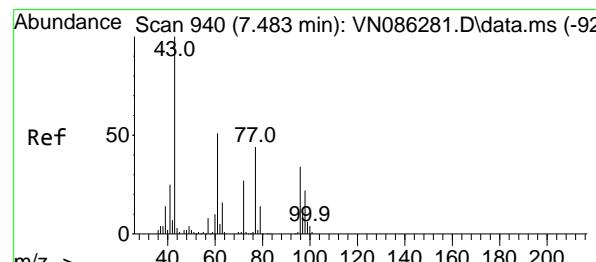
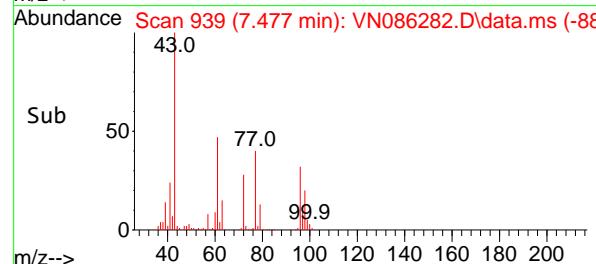
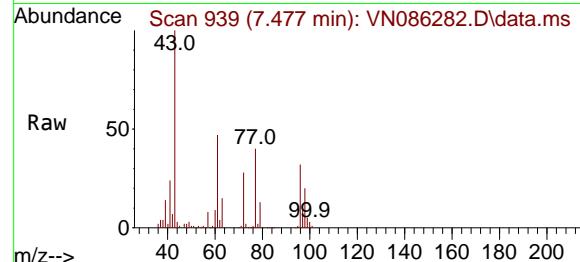
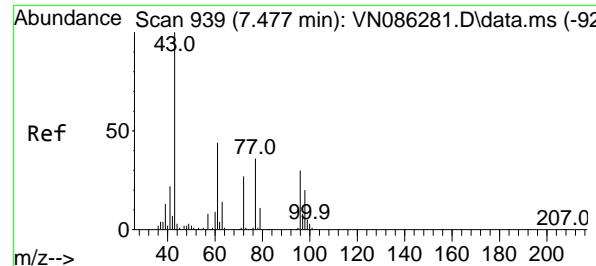
Ion Ratio Lower Upper

63 100

98 6.7 3.4 10.2

100 4.1 2.1 6.5





#25

2-Butanone

Concen: 465.437 ug/l

RT: 7.477 min Scan# 9

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

Instrument:

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 95821

Ion Ratio Lower Upper

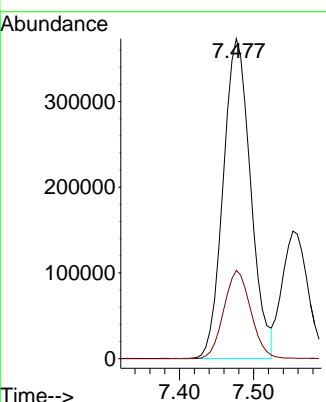
43 100

72 27.6 21.7 32.5

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#26

2,2-Dichloropropane

Concen: 96.005 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN086282.D

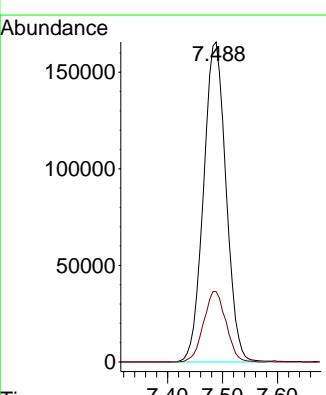
Acq: 15 Apr 2025 14:29

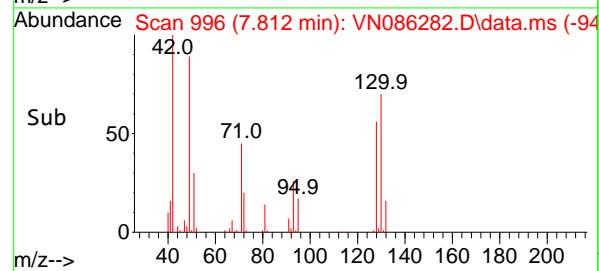
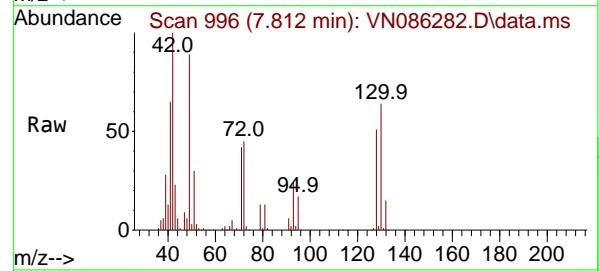
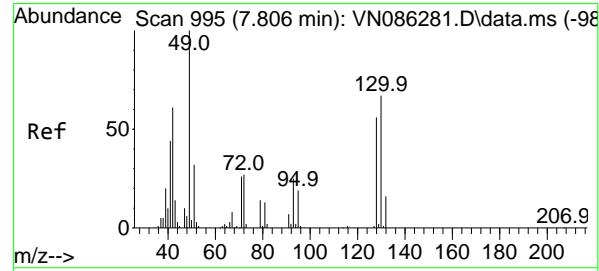
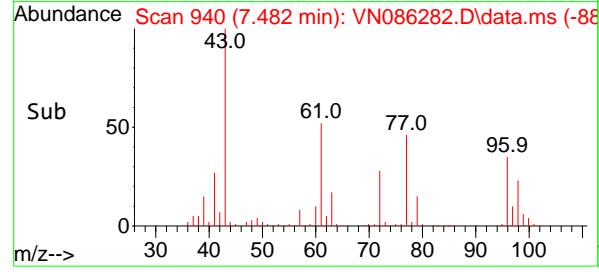
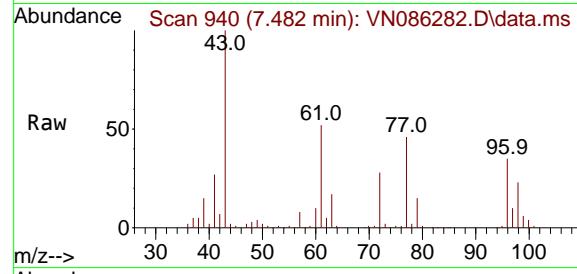
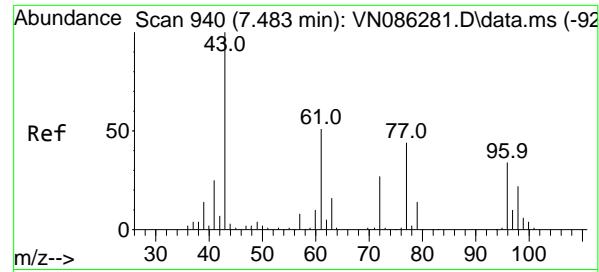
Tgt Ion: 77 Resp: 470852

Ion Ratio Lower Upper

77 100

97 22.0 11.2 33.5





#27

cis-1,2-Dichloroethene

Concen: 94.252 ug/l

RT: 7.482 min Scan# 9

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

Instrument :

MSVOA_N

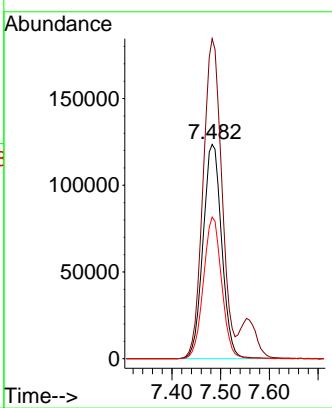
ClientSampleId :

VSTDICC100

Manual Integrations**APPROVED**

Reviewed By :John Carbone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#28

Bromochloromethane

Concen: 99.357 ug/l

RT: 7.812 min Scan# 996

Delta R.T. 0.006 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

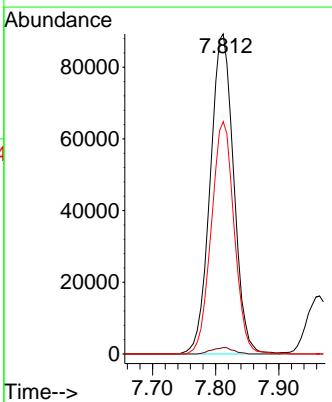
Tgt Ion: 49 Resp: 230762

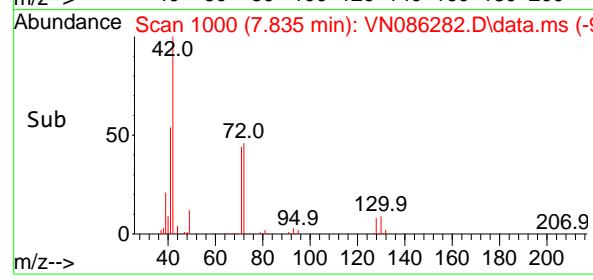
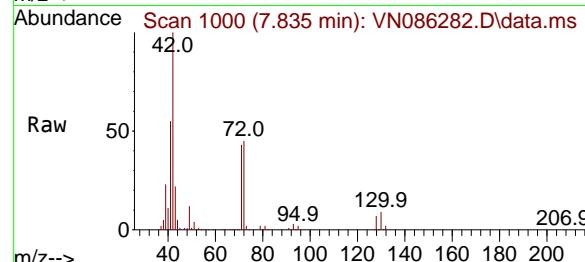
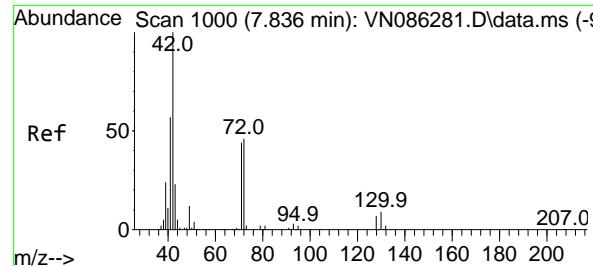
Ion Ratio Lower Upper

49 100

129 1.9 0.0 3.4

130 70.7 57.1 85.7





#29

Tetrahydrofuran

Concen: 453.130 ug/l

RT: 7.835 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

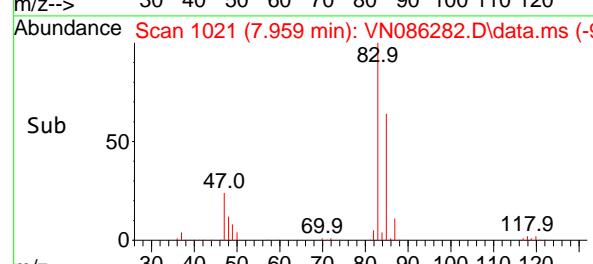
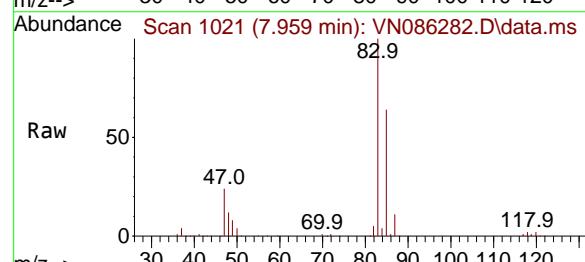
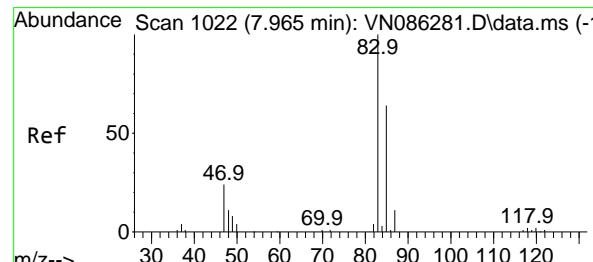
Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#30

Chloroform

Concen: 93.611 ug/l

RT: 7.959 min Scan# 1021

Delta R.T. -0.006 min

Lab File: VN086282.D

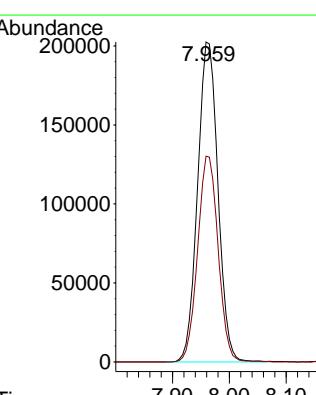
Acq: 15 Apr 2025 14:29

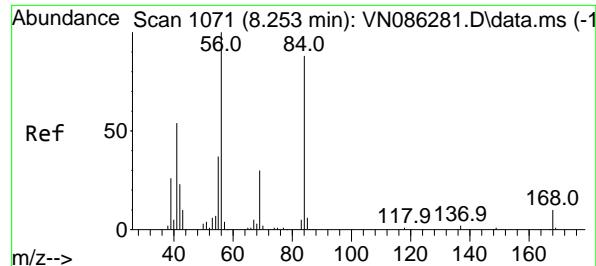
Tgt Ion: 83 Resp: 503712

Ion Ratio Lower Upper

83 100

85 64.3 51.5 77.3





#31

Cyclohexane

Concen: 90.418 ug/l

RT: 8.253 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086282.D

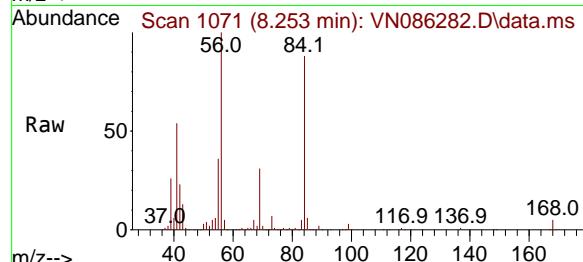
Acq: 15 Apr 2025 14:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100



Tgt Ion: 56 Resp: 48464

Ion Ratio Lower Upper

56 100

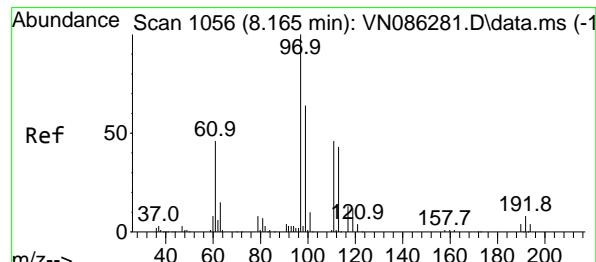
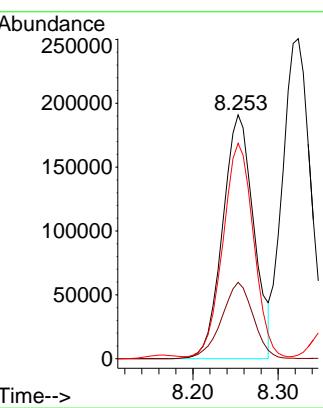
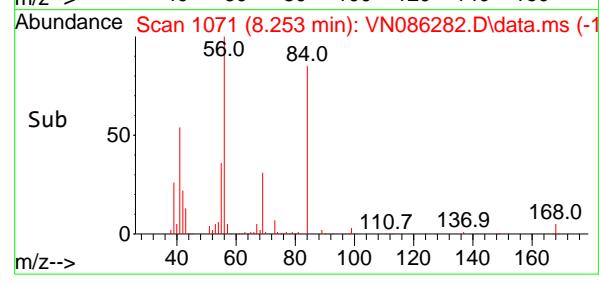
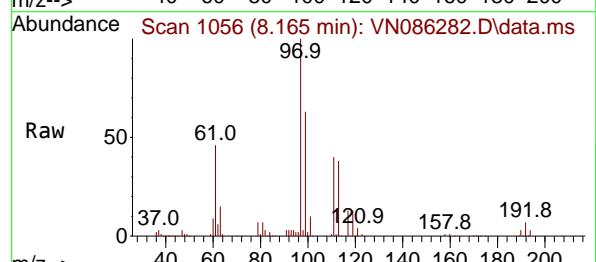
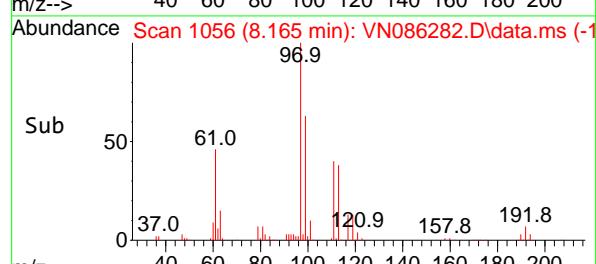
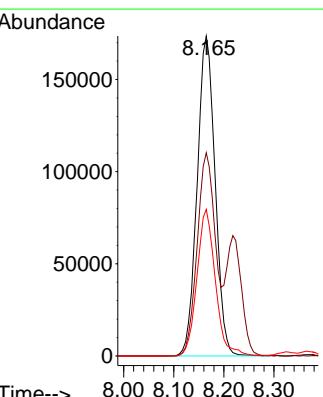
69 31.3 24.2 36.2

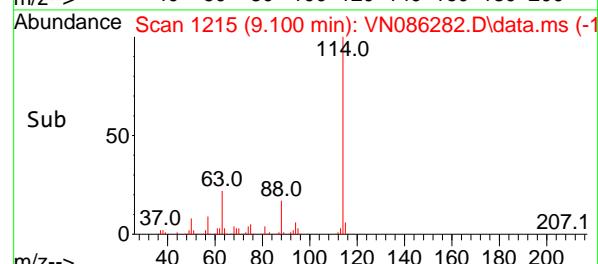
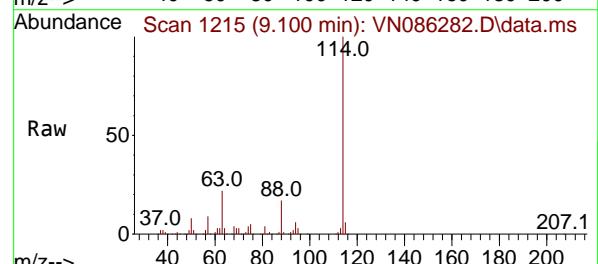
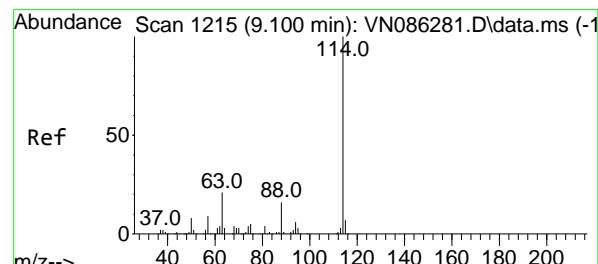
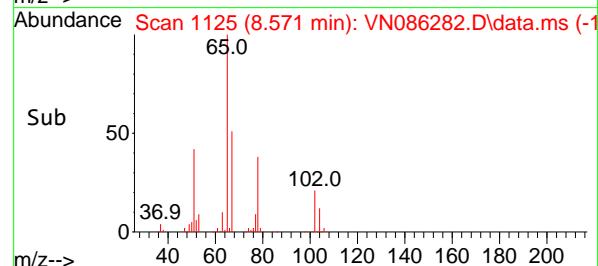
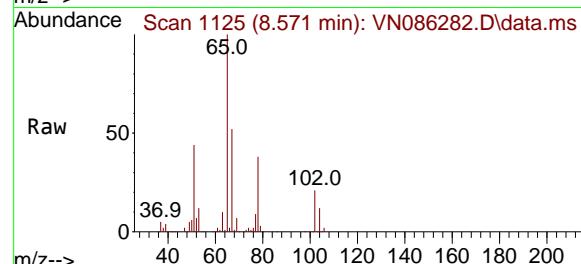
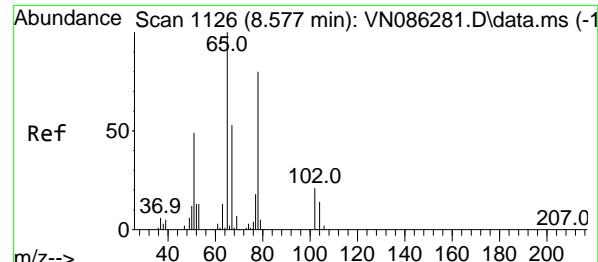
84 87.0 70.3 105.5

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025

#32
1,1,1-Trichloroethane
Concen: 94.058 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29Tgt Ion: 97 Resp: 432964
Ion Ratio Lower Upper
97 100
99 63.8 52.7 79.1
61 46.9 39.5 59.3



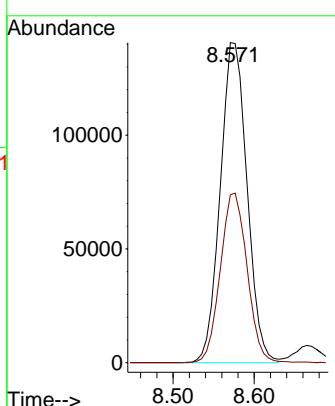
#33

1,2-Dichloroethane-d4
Concen: 97.633 ug/l
RT: 8.571 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29

Instrument : MSVOA_N
ClientSampleId : VSTDICC100

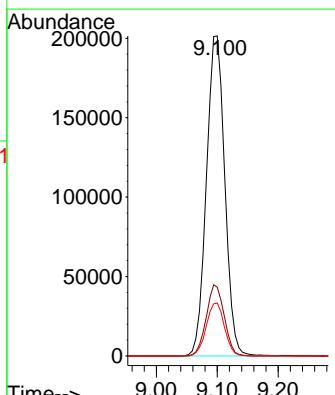
Manual Integrations APPROVED

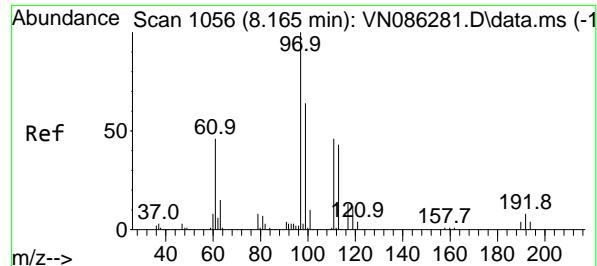
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.000 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29

Tgt Ion:114 Resp: 422902
Ion Ratio Lower Upper
114 100
63 21.5 0.0 42.6
88 16.5 0.0 31.8





#35

Dibromofluoromethane

Concen: 83.402 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086282.D

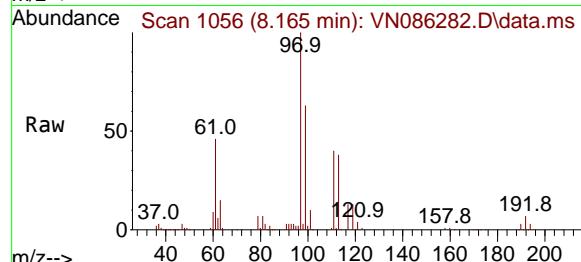
Acq: 15 Apr 2025 14:29

Instrument :

MSVOA_N

ClientSampleId :

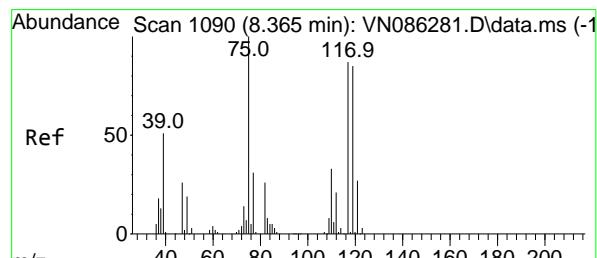
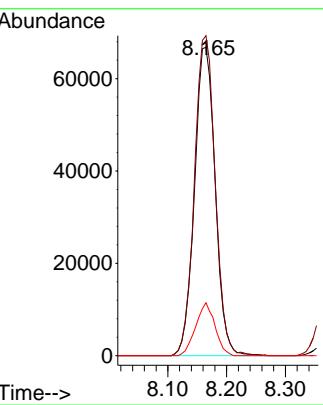
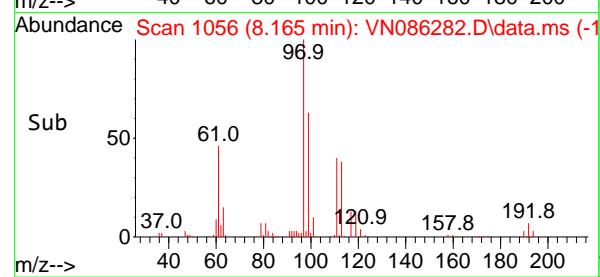
VSTDICC100



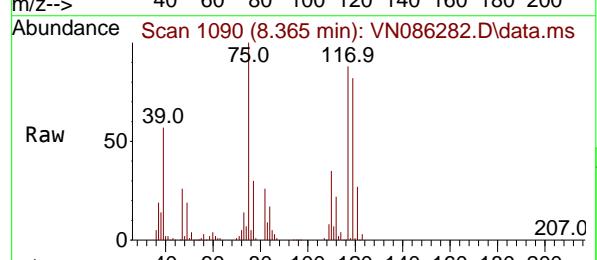
| Tgt | Ion: | 113 | Resp: | 163690 |
|-----|-----------|-------|-------|--------|
| | Ion Ratio | Lower | Upper | |
| 113 | 100 | | | |
| 111 | 103.9 | 83.4 | 125.0 | |
| 192 | 16.0 | 13.7 | 20.5 | |

Manual Integrations APPROVED

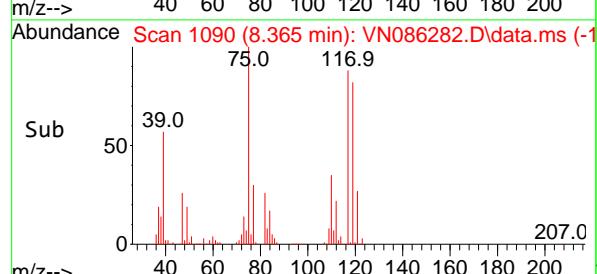
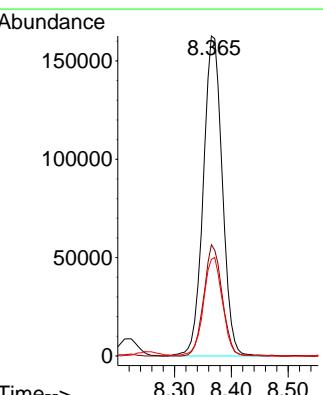
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

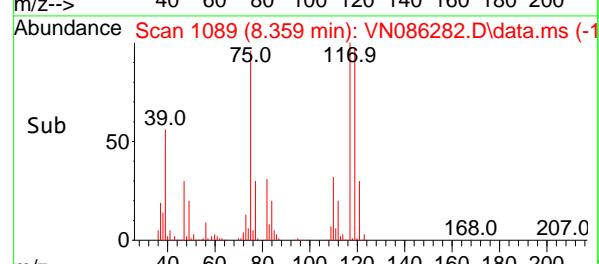
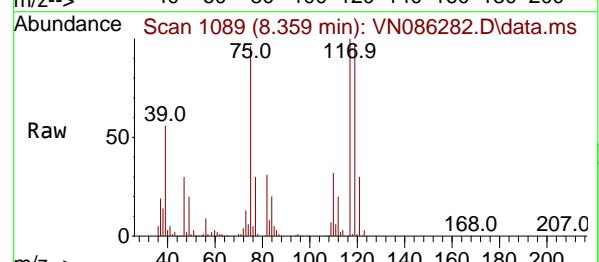
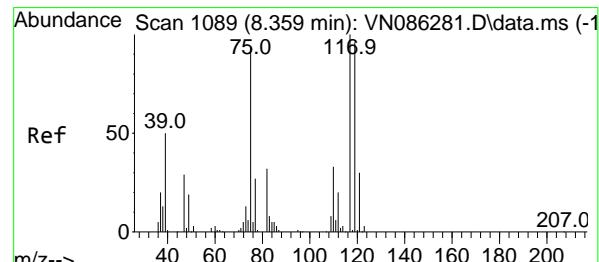
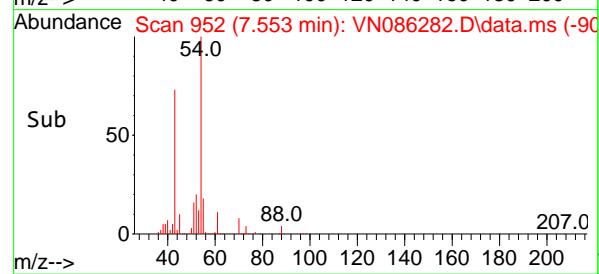
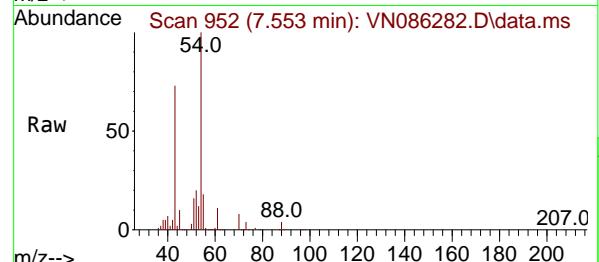
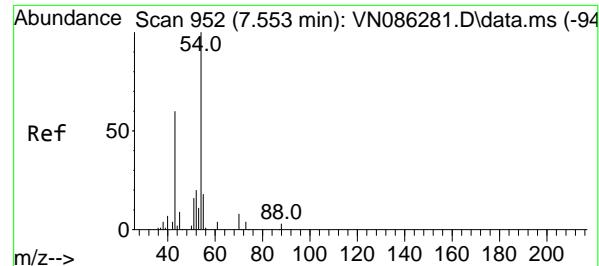


#36
1,1-Dichloropropene
Concen: 96.591 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. -0.000 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29



| Tgt | Ion: | 75 | Resp: | 378663 |
|-----|-----------|-------|-------|--------|
| | Ion Ratio | Lower | Upper | |
| 75 | 100 | | | |
| 110 | 33.5 | 16.8 | 50.4 | |
| 77 | 30.8 | 24.9 | 37.3 | |





#37

Ethyl Acetate

Concen: 89.962 ug/l

RT: 7.553 min Scan# 9

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

Instrument:

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 37129

Ion Ratio Lower Upper

43 100

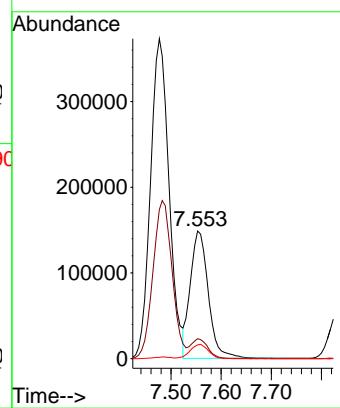
61 13.8 11.1 16.7

70 11.4 9.2 13.8

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#38

Carbon Tetrachloride

Concen: 96.450 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

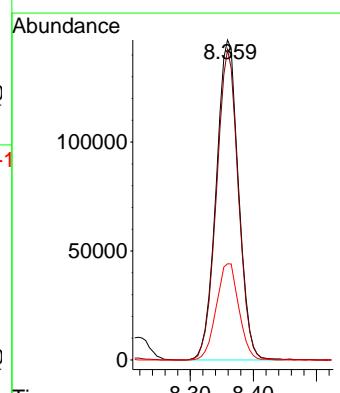
Tgt Ion:117 Resp: 360081

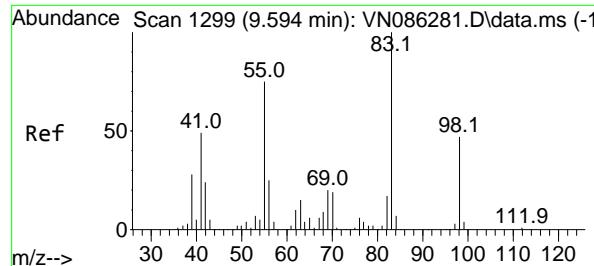
Ion Ratio Lower Upper

117 100

119 96.9 76.8 115.2

121 30.1 23.8 35.8





#39

Methylcyclohexane

Concen: 96.325 ug/l

RT: 9.600 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN086282.D

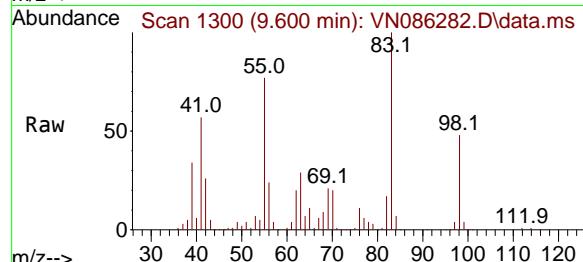
Acq: 15 Apr 2025 14:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100



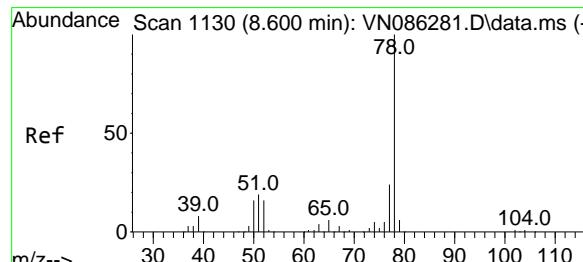
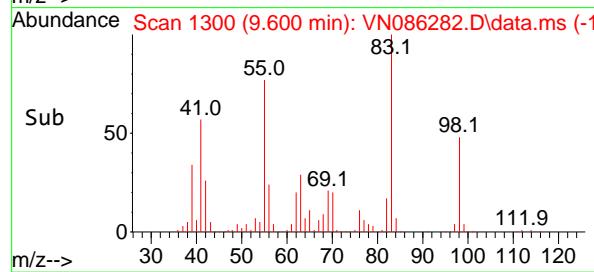
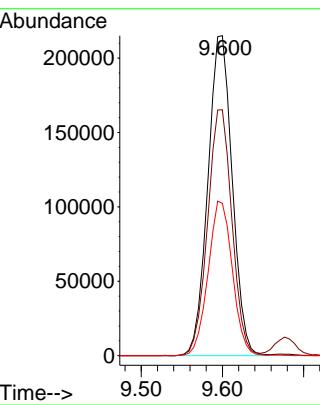
Tgt Ion: 83 Resp: 44884

Ion Ratio Lower Upper

| Tgt Ion | Lower | Upper |
|---------|-------|-------|
| 83 | 100 | |
| 55 | 76.8 | 59.8 |
| 98 | 47.6 | 37.9 |

**Manual Integrations
APPROVED**

Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#40

Benzene

Concen: 95.020 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. -0.000 min

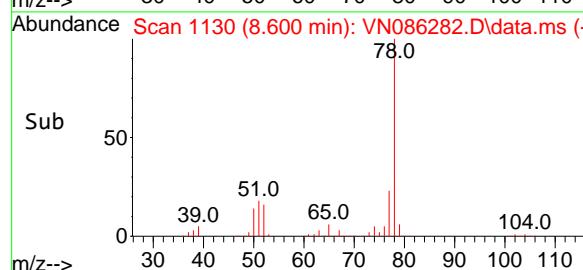
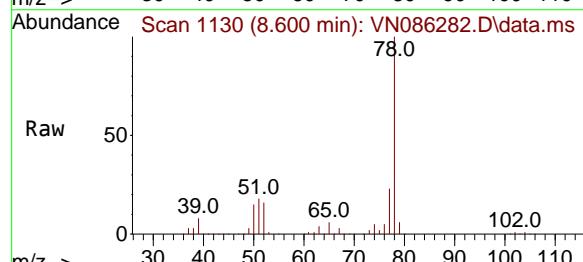
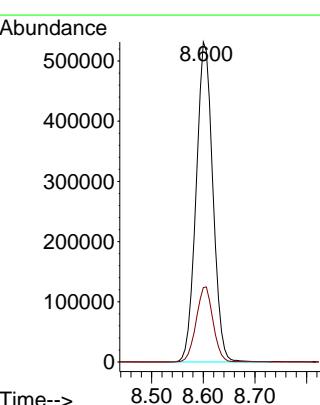
Lab File: VN086282.D

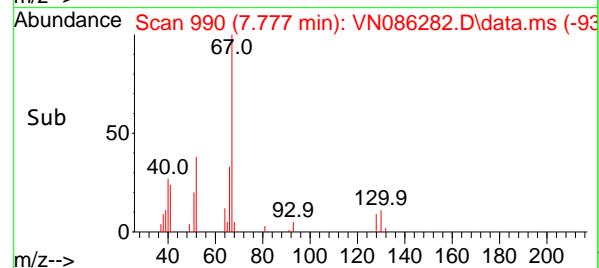
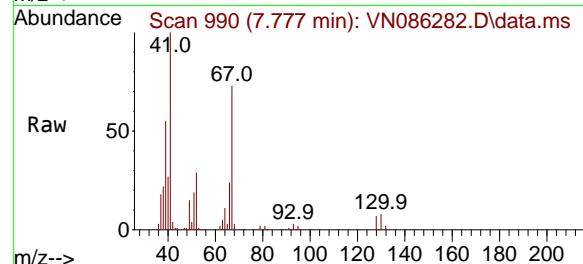
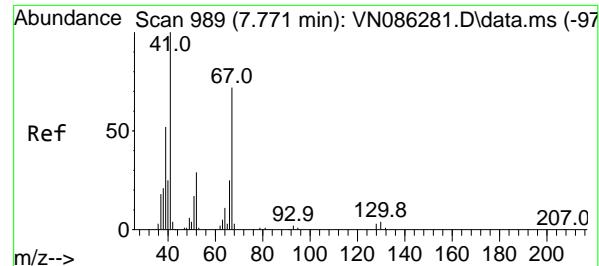
Acq: 15 Apr 2025 14:29

Tgt Ion: 78 Resp: 1193479

Ion Ratio Lower Upper

| Tgt Ion | Lower | Upper |
|---------|-------|-------|
| 78 | 100 | |
| 77 | 23.2 | 19.4 |





#41

Methacrylonitrile

Concen: 91.695 ug/l

RT: 7.777 min Scan# 990

Delta R.T. 0.006 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

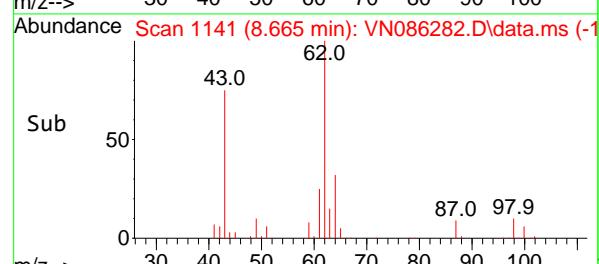
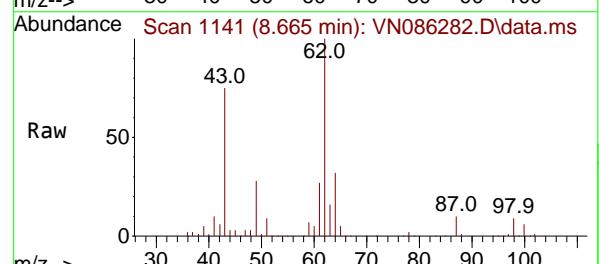
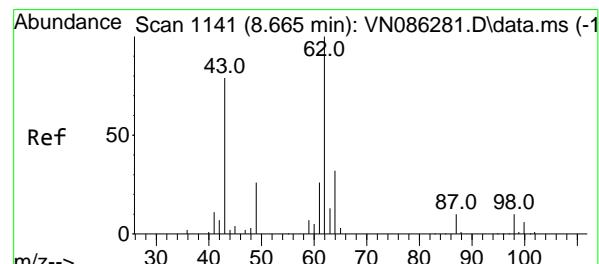
Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#42

1,2-Dichloroethane

Concen: 94.143 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

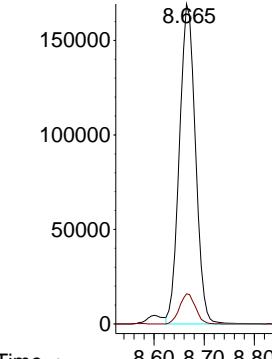
Tgt Ion: 62 Resp: 377081

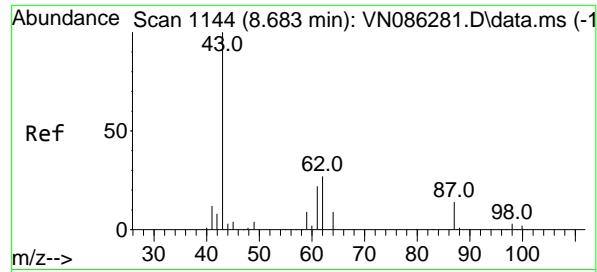
Ion Ratio Lower Upper

62 100

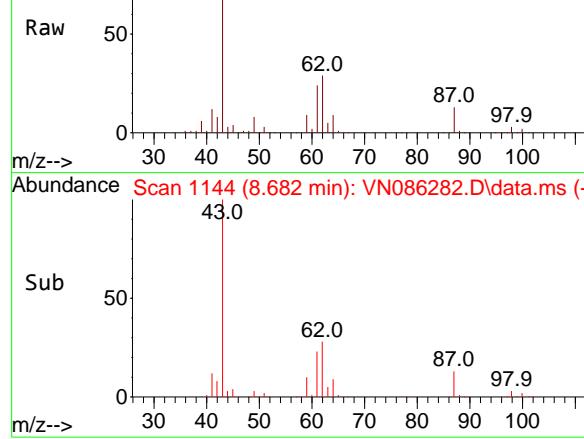
98 9.3 0.0 19.2

Abundance

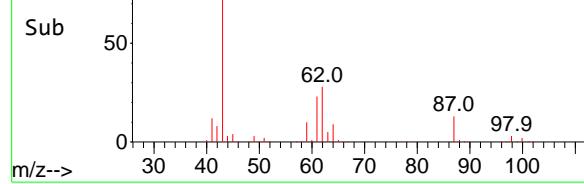




Abundance Scan 1144 (8.682 min): VN086282.D\data.ms



Abundance Scan 1144 (8.682 min): VN086282.D\data.ms (-1)



#43

Isopropyl Acetate

Concen: 100.085 ug/l

RT: 8.682 min Scan# 1

Delta R.T. -0.001 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

Instrument:

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 704184

Ion Ratio Lower Upper

43 100

61 25.8 20.5 30.7

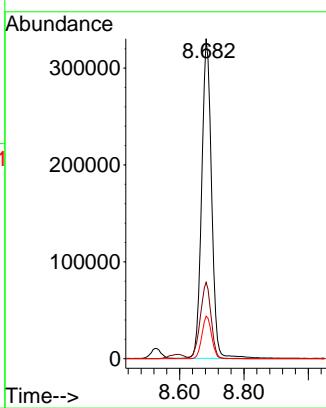
87 13.1 10.5 15.7

Manual Integrations

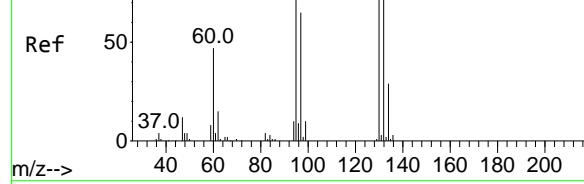
APPROVED

Reviewed By :John Carlone 04/16/2025

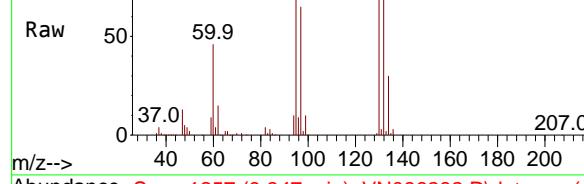
Supervised By :Semsettin Yesilyurt 04/16/2025



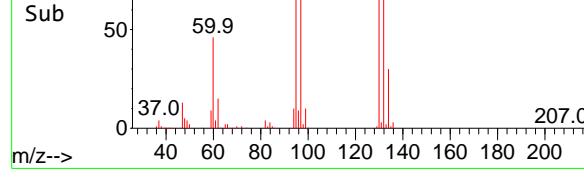
Abundance Scan 1257 (9.347 min): VN086281.D\data.ms (-1)



Abundance Scan 1257 (9.347 min): VN086282.D\data.ms



Abundance Scan 1257 (9.347 min): VN086282.D\data.ms (-1)



#44

Trichloroethene

Concen: 97.020 ug/l

RT: 9.347 min Scan# 1257

Delta R.T. -0.000 min

Lab File: VN086282.D

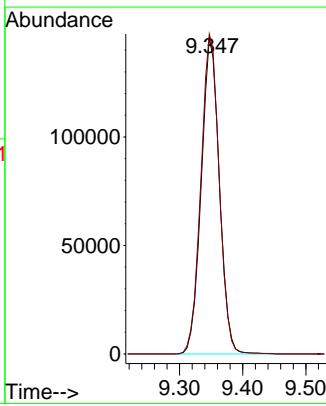
Acq: 15 Apr 2025 14:29

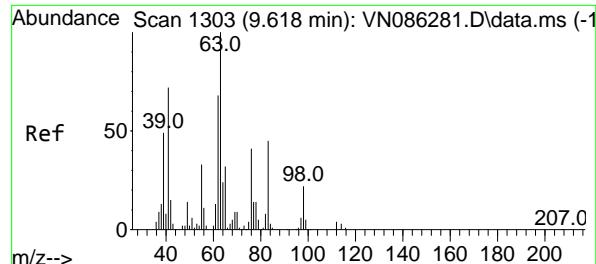
Tgt Ion: 130 Resp: 288832

Ion Ratio Lower Upper

130 100

95 101.1 0.0 207.2





#45

1,2-Dichloropropane

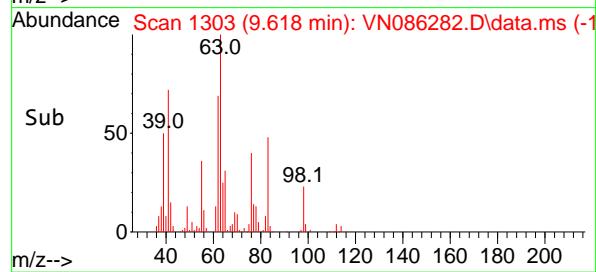
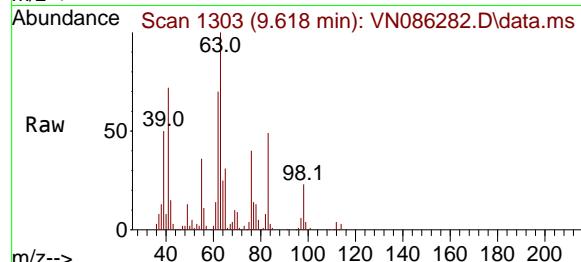
Concen: 95.501 ug/l

RT: 9.618 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29



Tgt Ion: 63 Resp: 29362

Ion Ratio Lower Upper

63 100

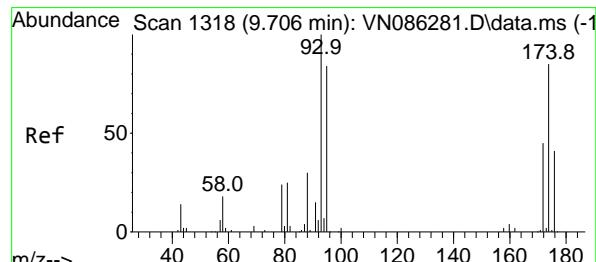
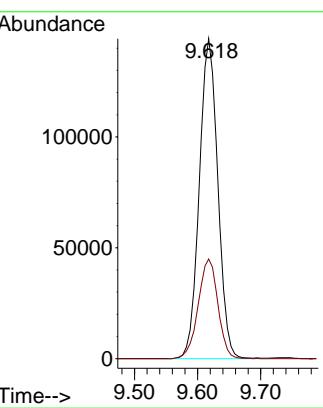
65 31.2 25.4 38.2

Instrument:

MSVOA_N

ClientSampleId :

VSTDICC100

**Manual Integrations
APPROVED**
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

#46

Dibromomethane

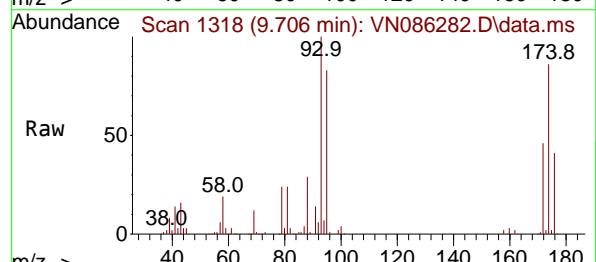
Concen: 97.667 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29



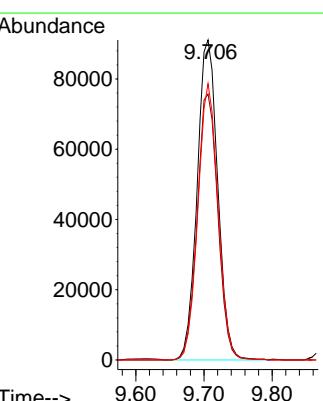
Tgt Ion: 93 Resp: 191324

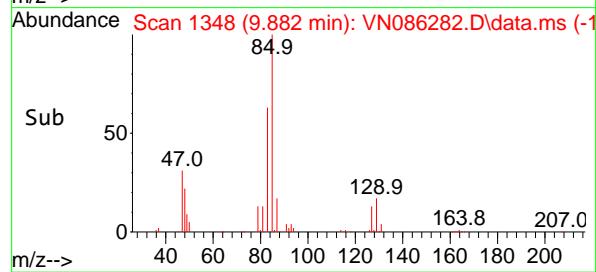
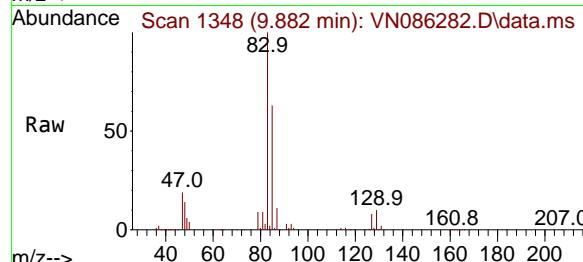
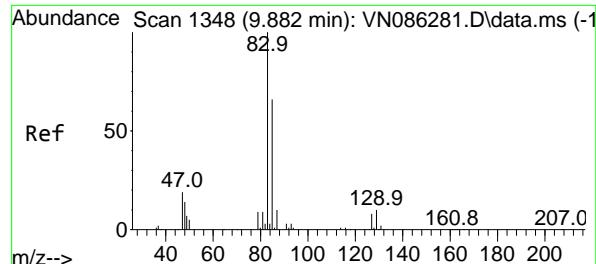
Ion Ratio Lower Upper

93 100

95 83.5 66.2 99.4

174 84.6 67.8 101.6





#47

Bromodichloromethane

Concen: 95.372 ug/l

RT: 9.882 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

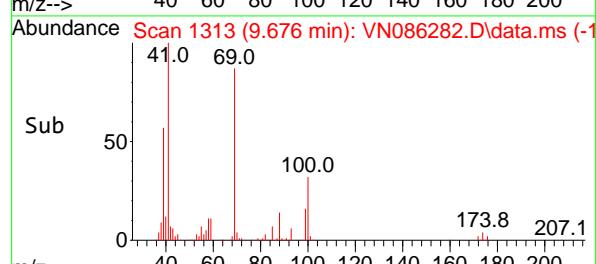
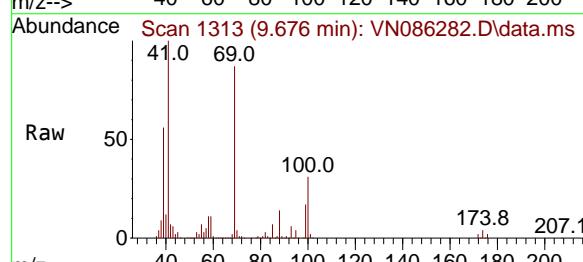
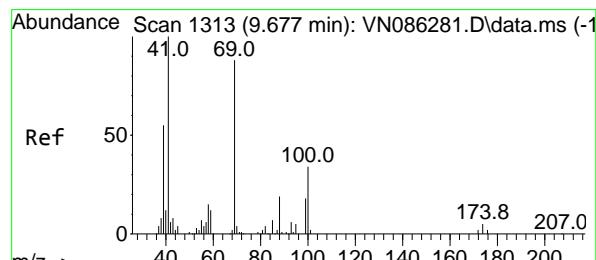
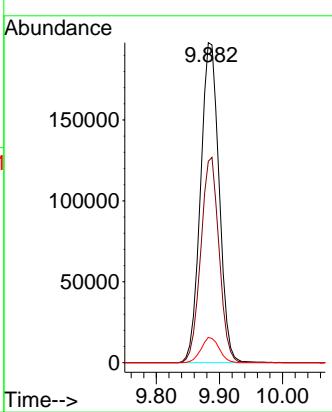
Instrument:

MSVOA_N

ClientSampleId :

VSTDICC100

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#48

Methyl methacrylate

Concen: 90.052 ug/l

RT: 9.676 min Scan# 1313

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

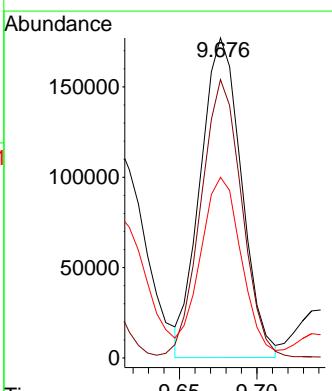
Tgt Ion: 41 Resp: 326384

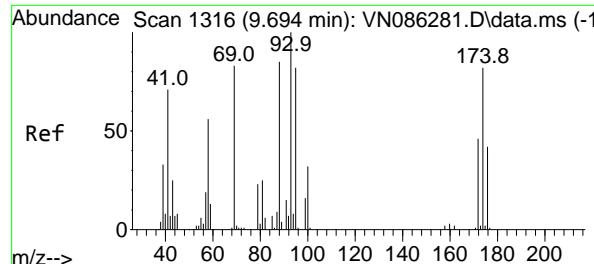
Ion Ratio Lower Upper

41 100

69 87.1 68.2 102.2

39 57.0 45.2 67.8





#49

1,4-Dioxane

Concen: 1601.137 ug/l

RT: 9.688 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN086282.D

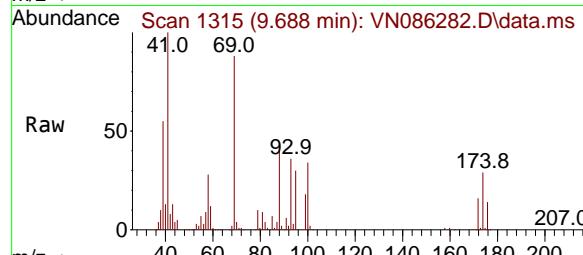
Acq: 15 Apr 2025 14:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100



Tgt Ion: 88 Resp: 9871

Ion Ratio Lower Upper

88 100

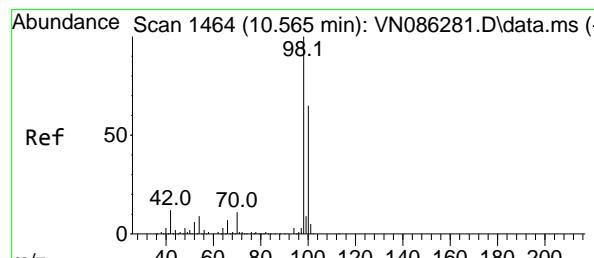
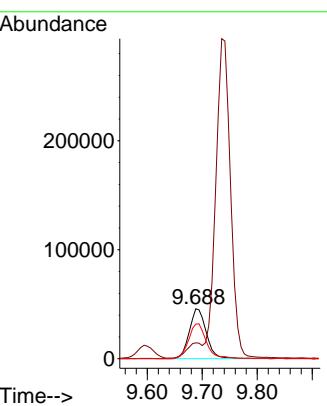
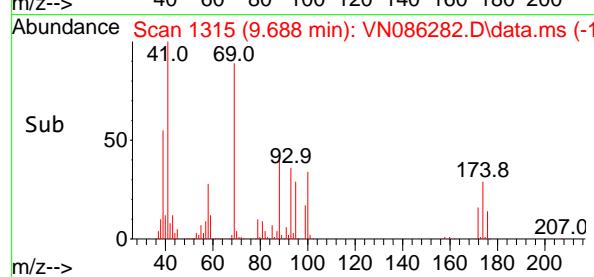
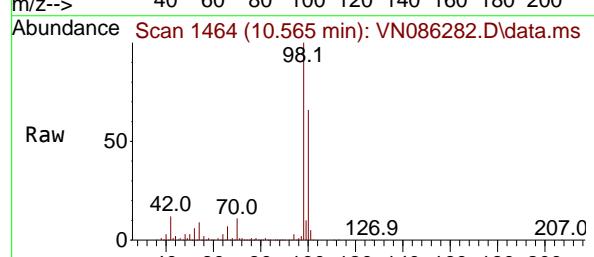
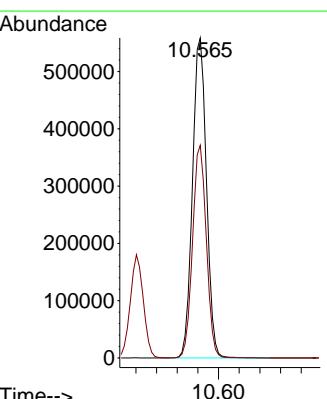
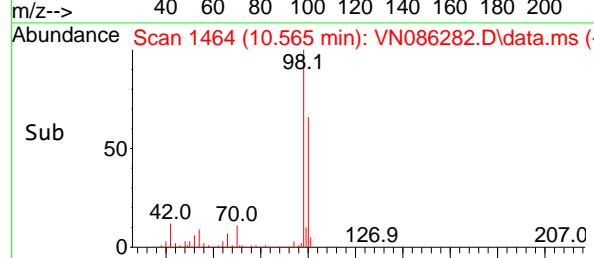
43 27.4 23.8 35.8

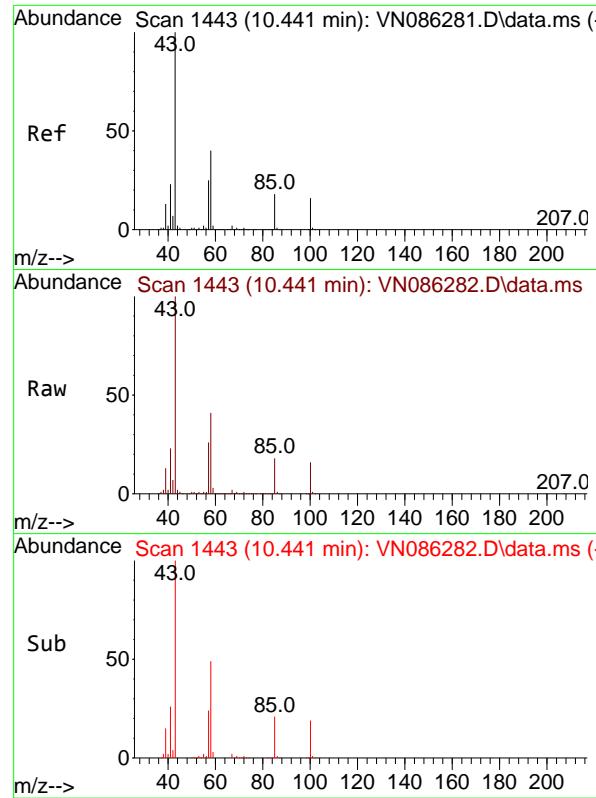
58 73.1 57.4 86.2

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025

#50
Toluene-d8
Concen: 99.767 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29Tgt Ion: 98 Resp: 1046538
Ion Ratio Lower Upper
98 100
100 65.4 52.5 78.7

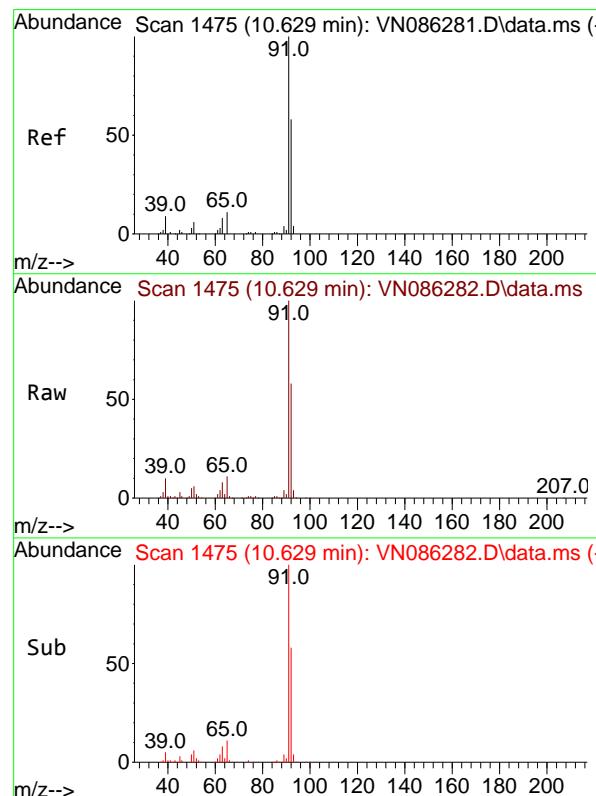
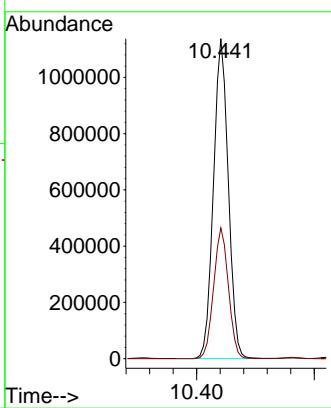


#51
4-Methyl-2-Pentanone
Concen: 470.803 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

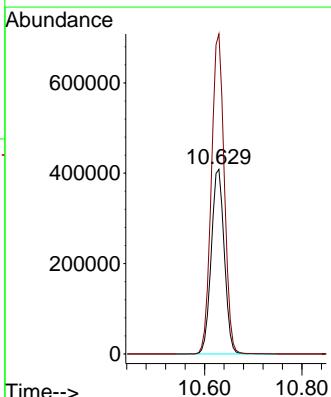
Manual Integrations
APPROVED

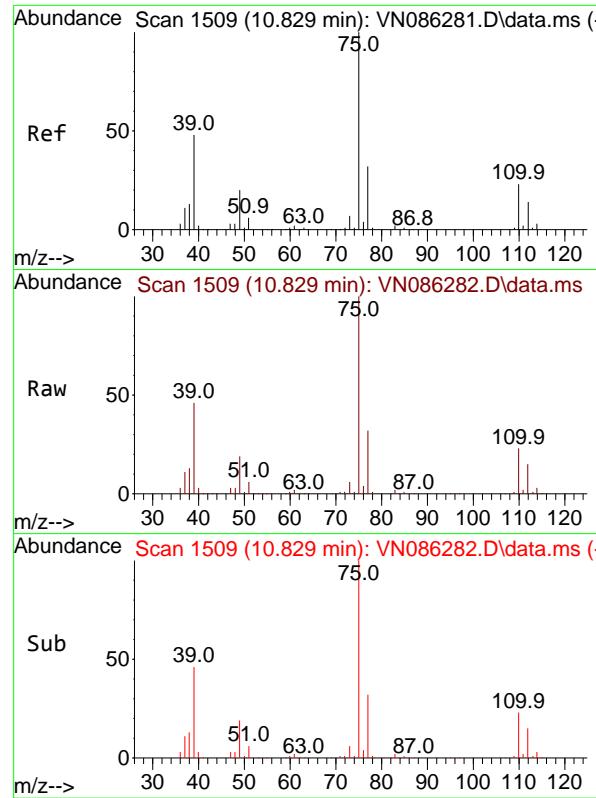
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#52
Toluene
Concen: 96.592 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29

Tgt Ion: 92 Resp: 757019
Ion Ratio Lower Upper
92 100
91 171.5 137.3 205.9



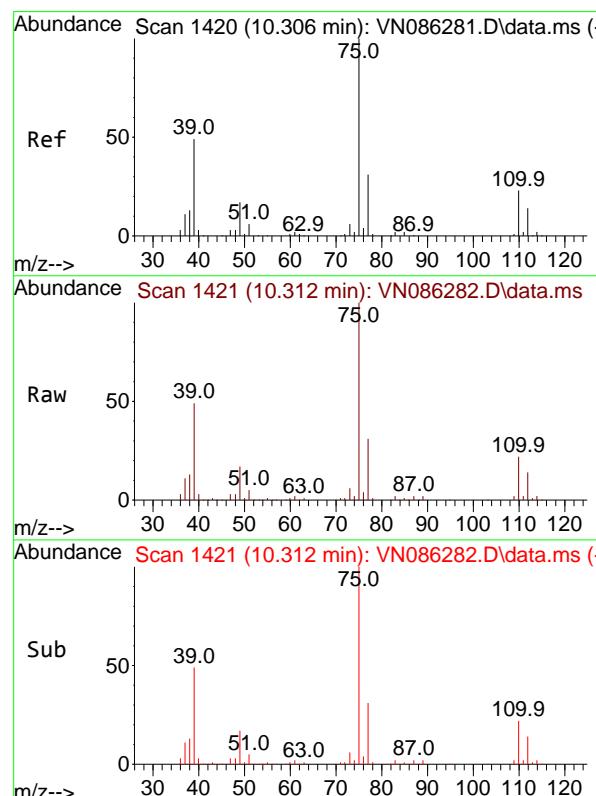


#53
t-1,3-Dichloropropene
Concen: 99.248 ug/l
RT: 10.829 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

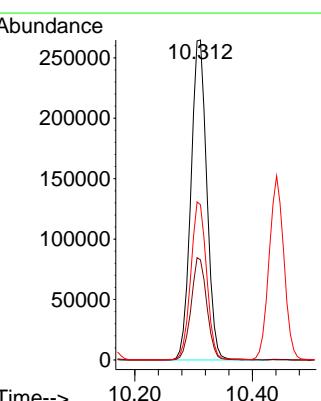
Manual Integrations APPROVED

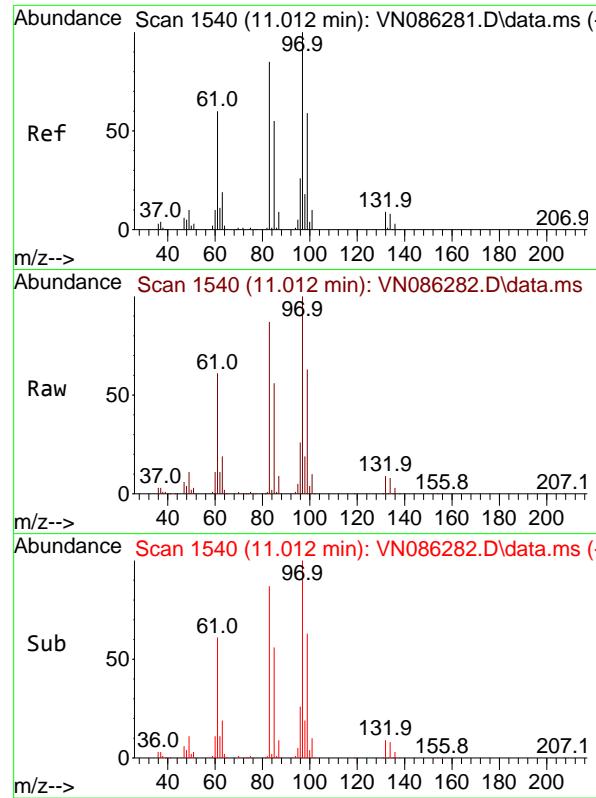
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#54
cis-1,3-Dichloropropene
Concen: 95.755 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.006 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29

Tgt Ion: 75 Resp: 496721
Ion Ratio Lower Upper
75 100
77 31.3 25.2 37.8
39 48.4 39.3 58.9





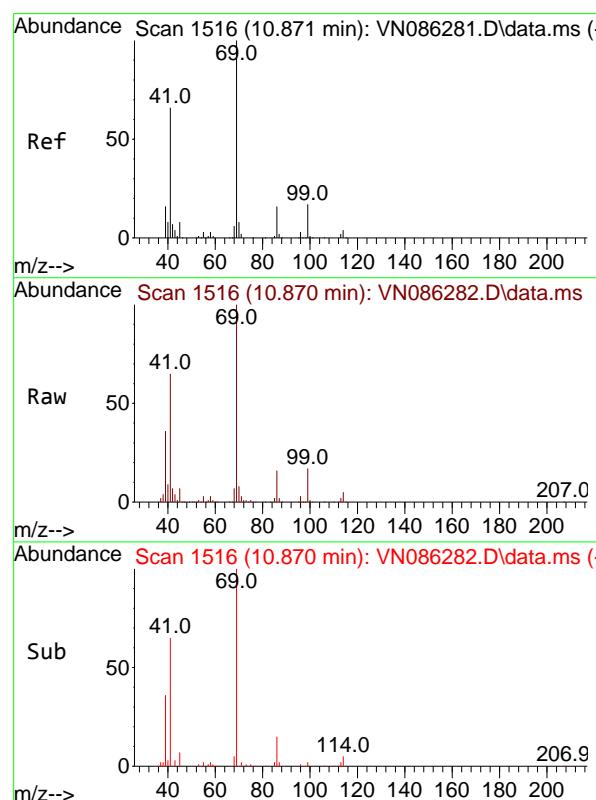
#55

1,1,2-Trichloroethane
Concen: 93.795 ug/l
RT: 11.012 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

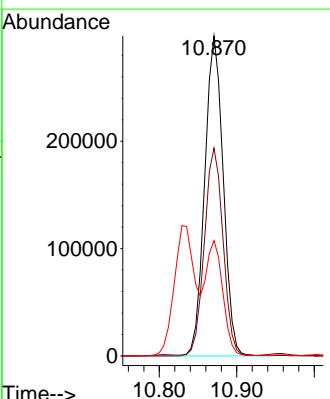
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

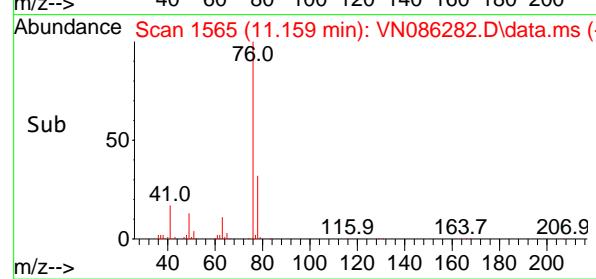
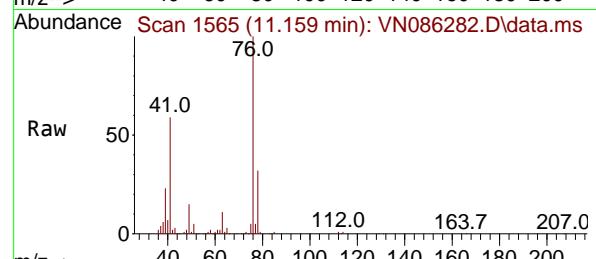
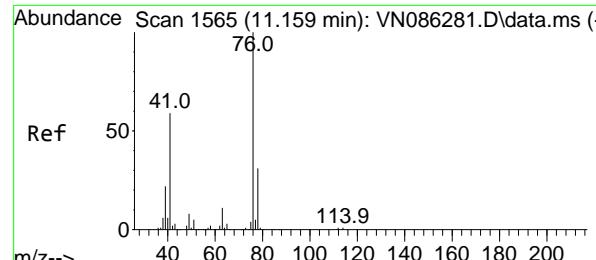


#56

Ethyl methacrylate
Concen: 95.461 ug/l
RT: 10.870 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29

Tgt Ion: 69 Resp: 494791
Ion Ratio Lower Upper
69 100
41 65.0 51.7 77.5
39 33.0 26.3 39.5





#57

1,3-Dichloropropane

Concen: 96.455 ug/l

RT: 11.159 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

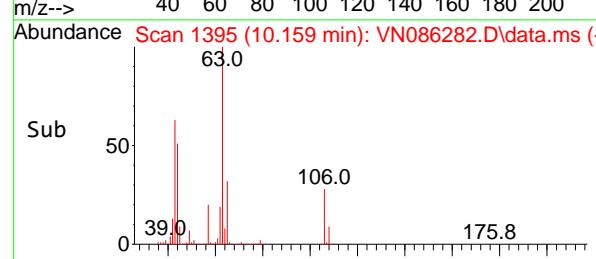
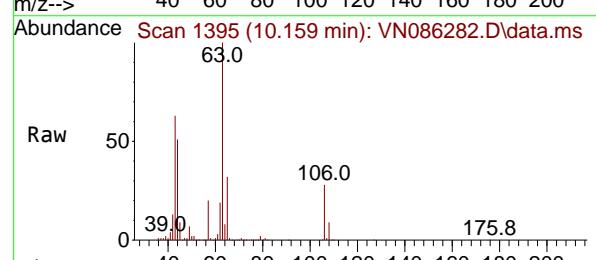
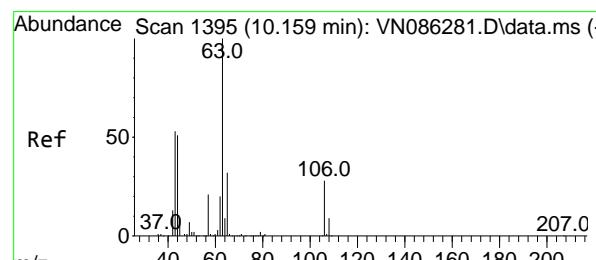
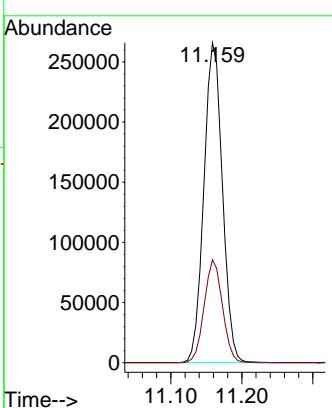
Instrument:

MSVOA_N

ClientSampleId :

VSTDICC100

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#58

2-Chloroethyl Vinyl ether

Concen: 505.011 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. -0.000 min

Lab File: VN086282.D

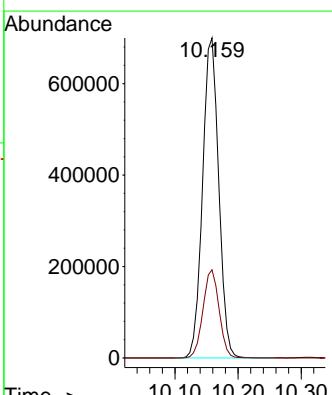
Acq: 15 Apr 2025 14:29

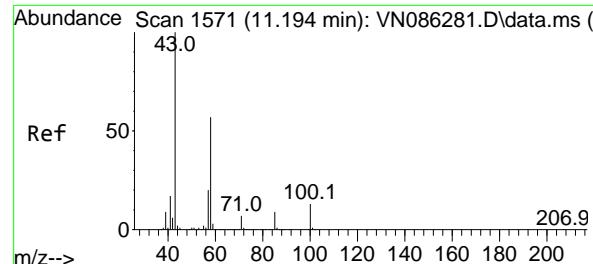
Tgt Ion: 63 Resp: 1242387

Ion Ratio Lower Upper

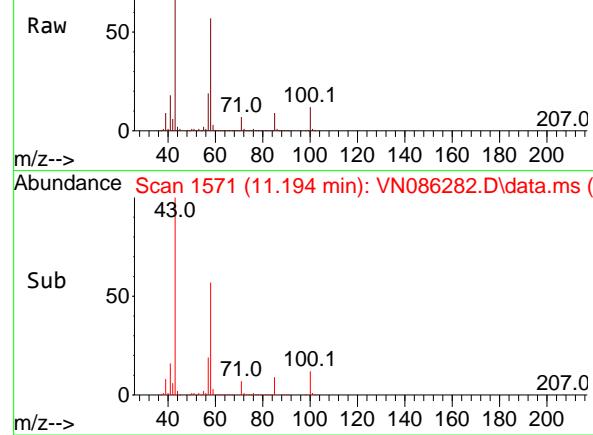
63 100

106 27.4 22.2 33.2

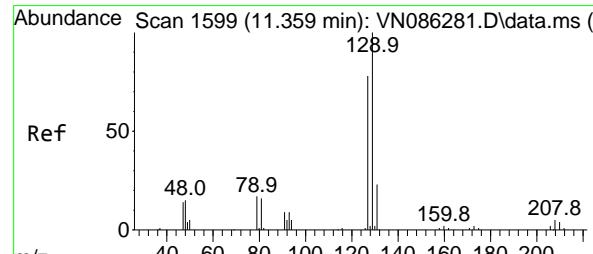
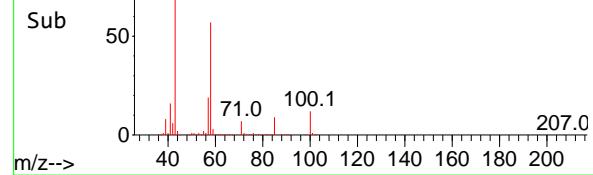




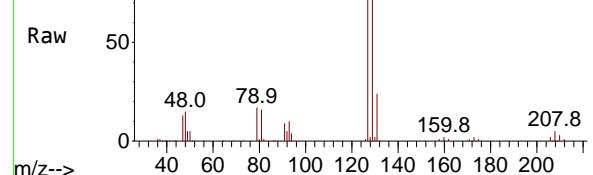
Abundance Scan 1571 (11.194 min): VN086282.D\data.ms (-)



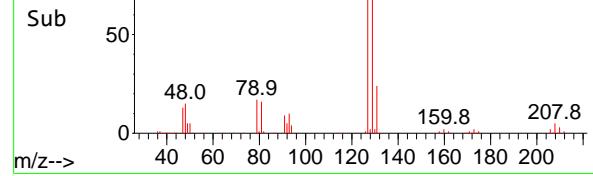
Abundance Scan 1571 (11.194 min): VN086282.D\data.ms (-)



Abundance Scan 1599 (11.359 min): VN086282.D\data.ms (-)



Abundance Scan 1599 (11.359 min): VN086282.D\data.ms (-)



#59

2-Hexanone

Concen: 470.996 ug/l

RT: 11.194 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

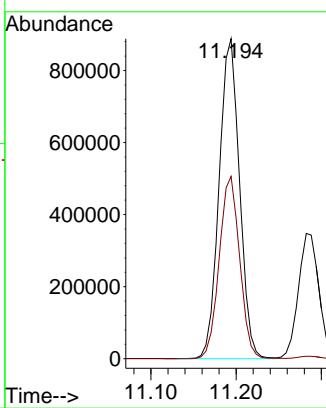
Instrument :

MSVOA_N

ClientSampleId :

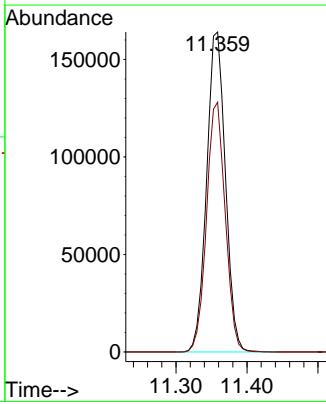
VSTDICC100

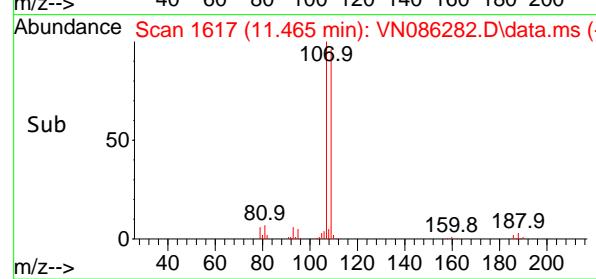
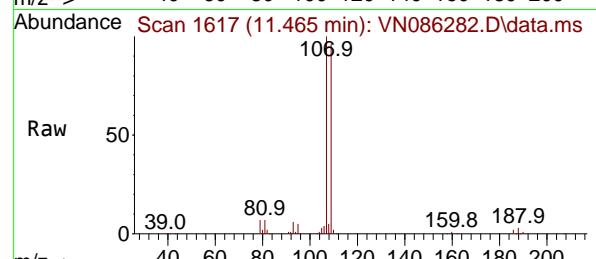
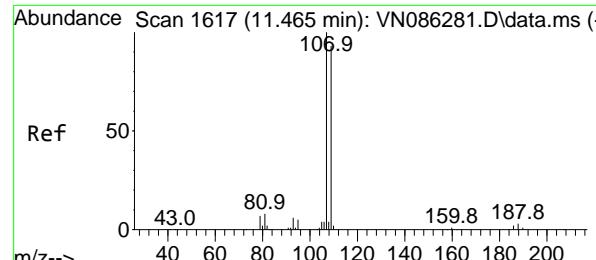
**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#60
Dibromochloromethane
Concen: 97.371 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29

Tgt Ion:129 Resp: 301498
Ion Ratio Lower Upper
129 100
127 77.6 38.7 116.1



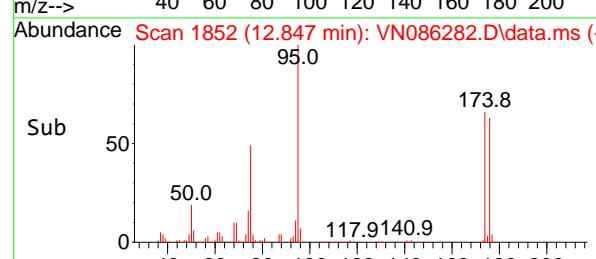
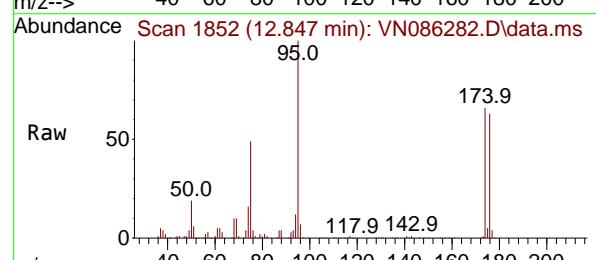
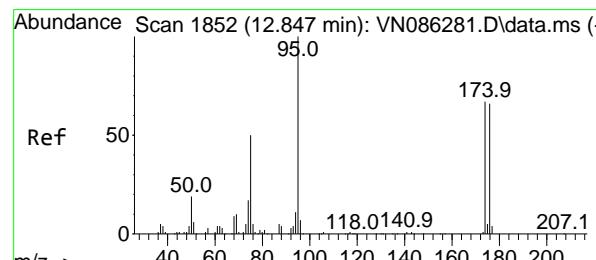
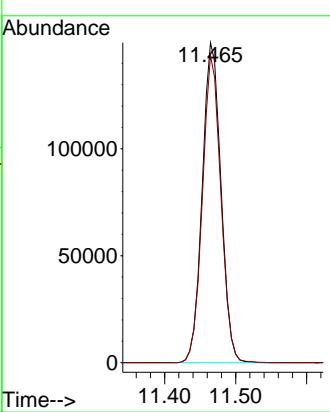


#61
1,2-Dibromoethane
Concen: 96.156 ug/l
RT: 11.465 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

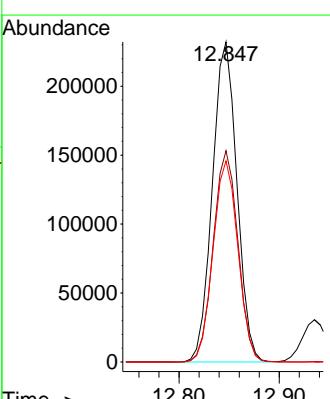
Manual Integrations
APPROVED

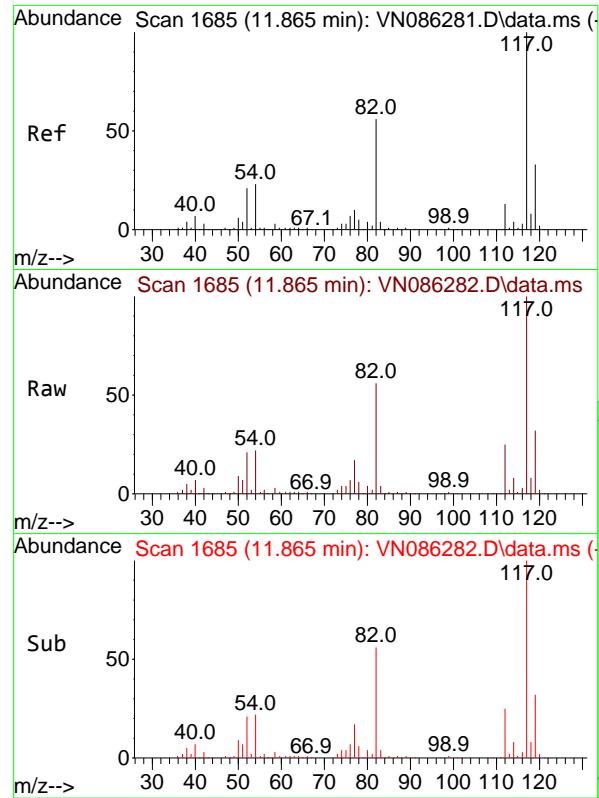
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#62
4-Bromofluorobenzene
Concen: 103.153 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29

Tgt Ion: 95 Resp: 394671
Ion Ratio Lower Upper
95 100
174 66.4 0.0 133.4
176 63.6 0.0 129.2



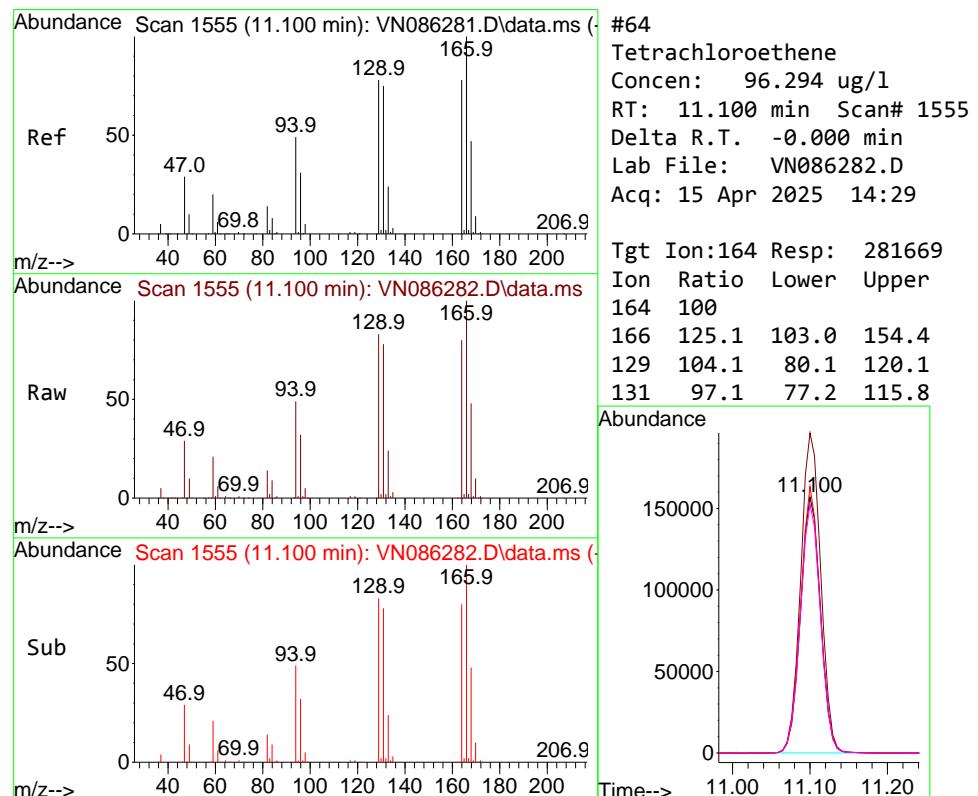
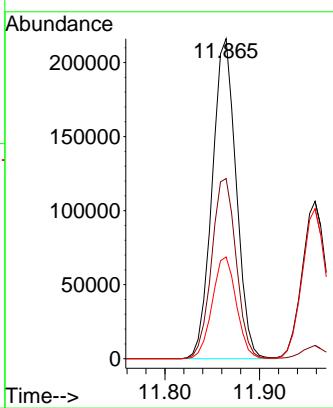


#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.865 min Scan# 1
 Delta R.T. -0.000 min
 Lab File: VN086282.D
 Acq: 15 Apr 2025 14:29

Instrument : MSVOA_N
 ClientSampleId : VSTDICC100

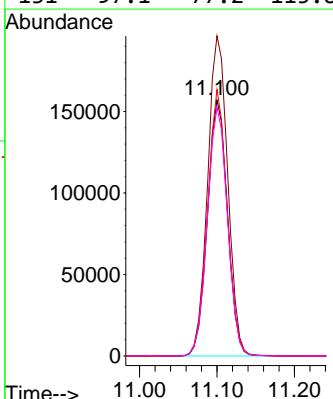
Manual Integrations
APPROVED

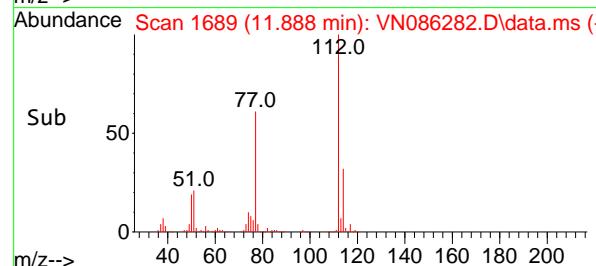
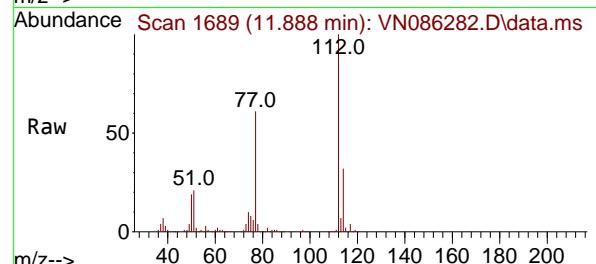
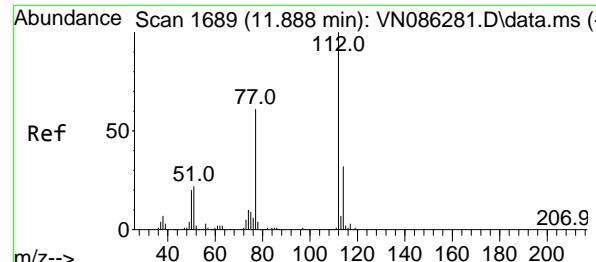
Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025



#64
 Tetrachloroethene
 Concen: 96.294 ug/l
 RT: 11.100 min Scan# 1555
 Delta R.T. -0.000 min
 Lab File: VN086282.D
 Acq: 15 Apr 2025 14:29

Tgt Ion:164 Resp: 281669
 Ion Ratio Lower Upper
 164 100
 166 125.1 103.0 154.4
 129 104.1 80.1 120.1
 131 97.1 77.2 115.8



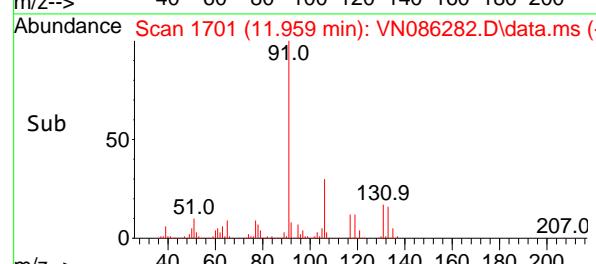
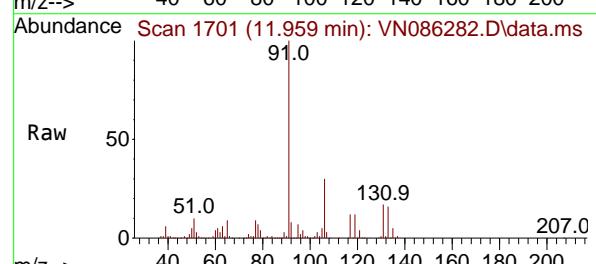
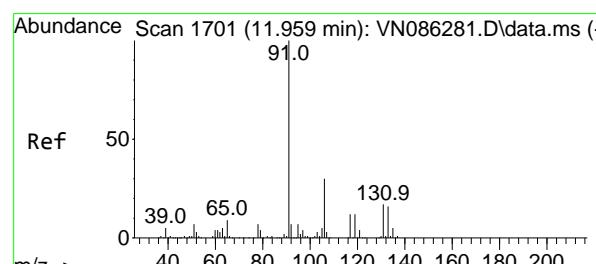
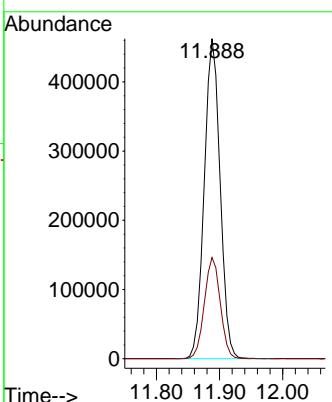


#65
Chlorobenzene
Concen: 94.881 ug/l
RT: 11.888 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

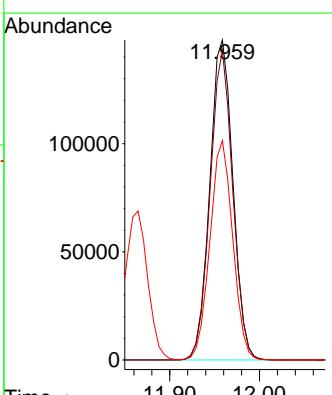
Manual Integrations APPROVED

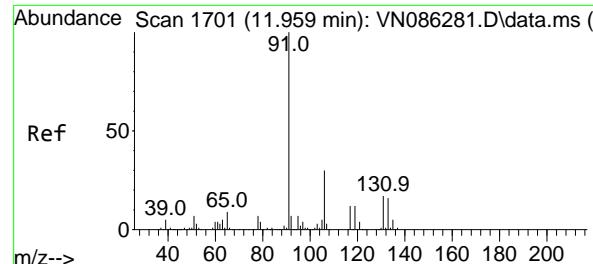
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



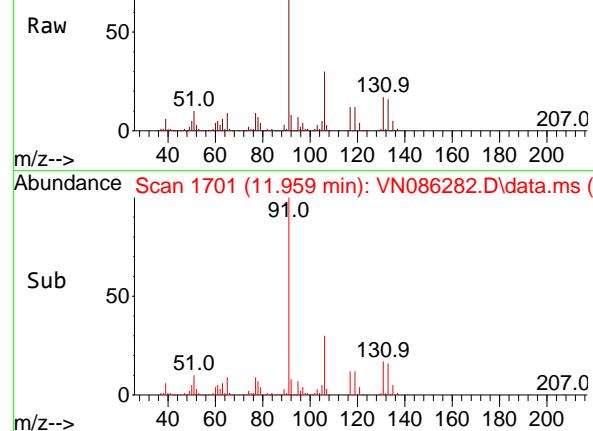
#66
1,1,1,2-Tetrachloroethane
Concen: 94.488 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29

Tgt Ion:131 Resp: 264532
Ion Ratio Lower Upper
131 100
133 94.6 47.1 141.3
119 67.6 33.8 101.4





Abundance Scan 1701 (11.959 min): VN086282.D\data.ms (-)



#67

Ethyl Benzene

Concen: 96.398 ug/l

RT: 11.959 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

Instrument:

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 91 Resp: 147623

Ion Ratio Lower Upper

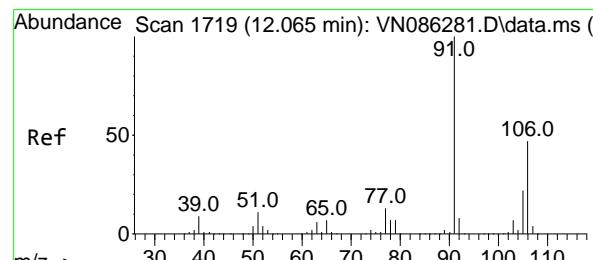
91 100

106 30.3 24.3 36.5

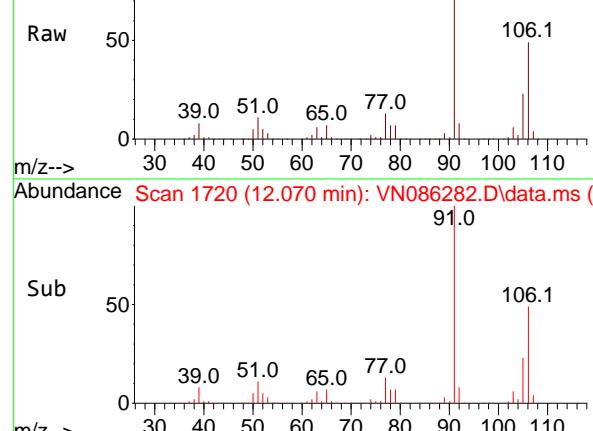
Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



Abundance Scan 1720 (12.070 min): VN086282.D\data.ms (-)



#68

m/p-Xylenes

Concen: 194.681 ug/l

RT: 12.070 min Scan# 1720

Delta R.T. 0.006 min

Lab File: VN086282.D

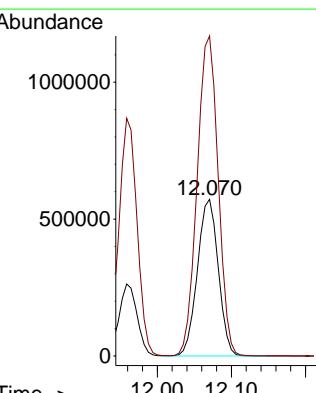
Acq: 15 Apr 2025 14:29

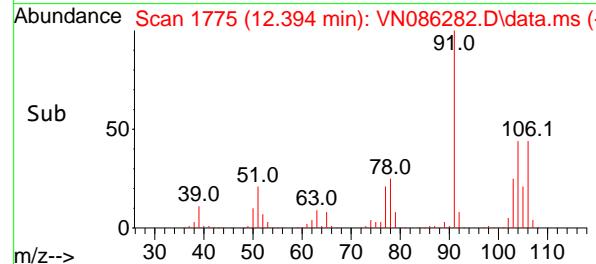
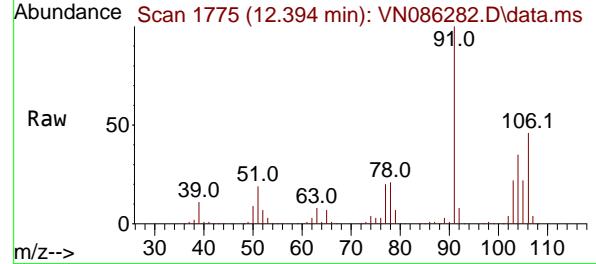
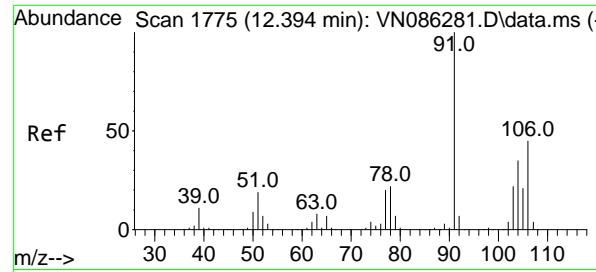
Tgt Ion:106 Resp: 1117098

Ion Ratio Lower Upper

106 100

91 205.7 166.5 249.7



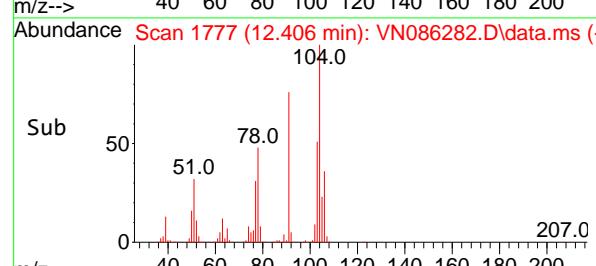
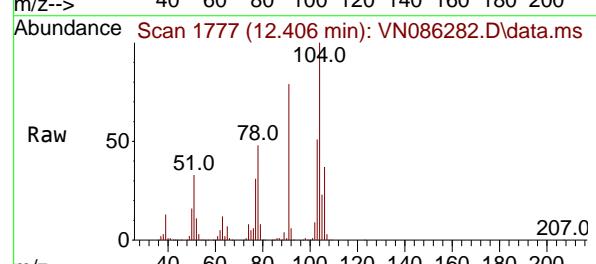
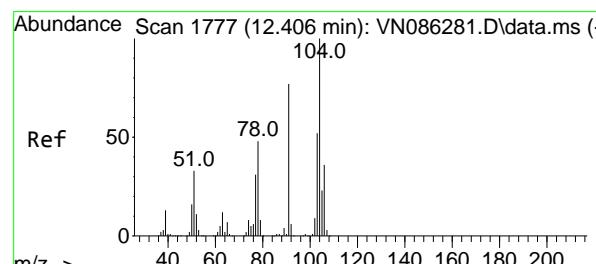
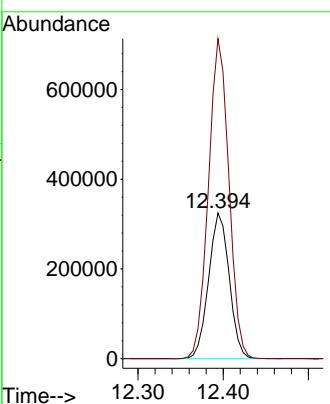


#69
o-Xylene
Concen: 96.221 ug/l
RT: 12.394 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29

Instrument : MSVOA_N
ClientSampleId : VSTDICC100

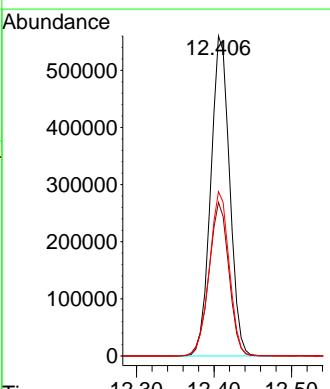
Manual Integrations APPROVED

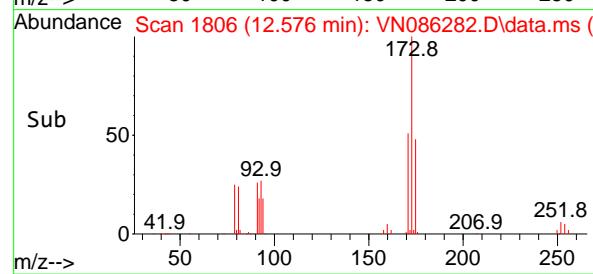
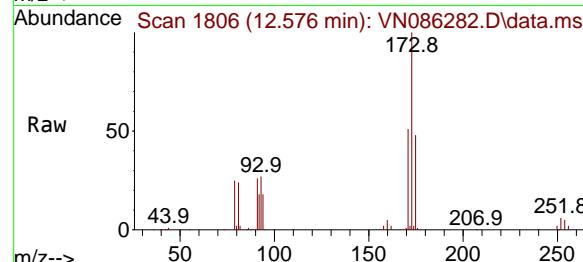
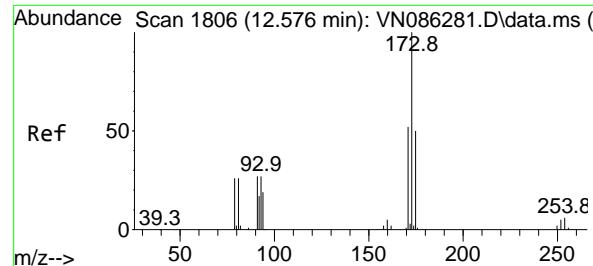
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#70
Styrene
Concen: 100.188 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29

Tgt Ion:104 Resp: 947293
Ion Ratio Lower Upper
104 100
78 50.7 40.6 61.0
103 54.0 43.6 65.4





#71

Bromoform

Concen: 95.410 ug/l

RT: 12.576 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

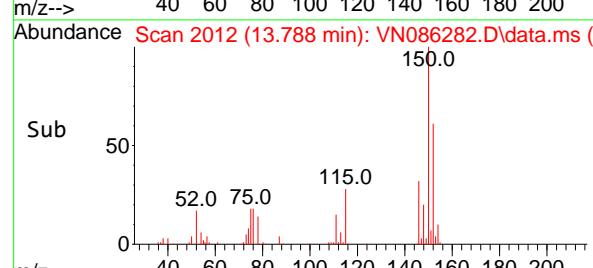
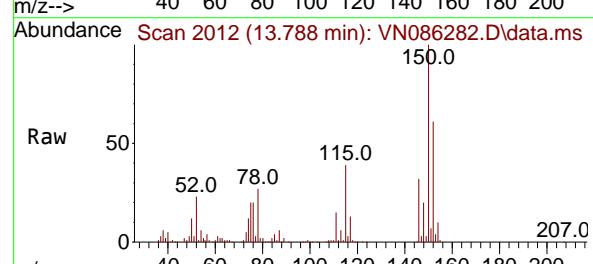
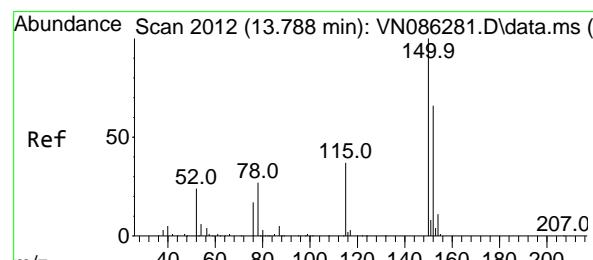
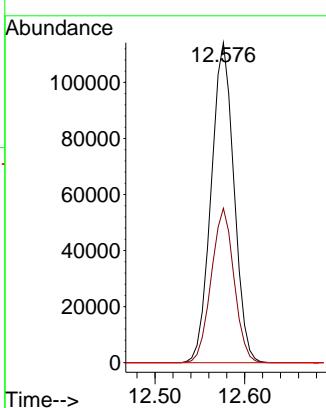
Instrument:

MSVOA_N

ClientSampleId :

VSTDICC100

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

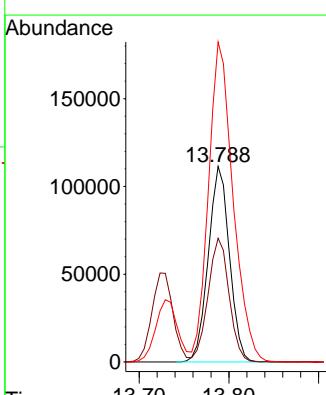
RT: 13.788 min Scan# 2012

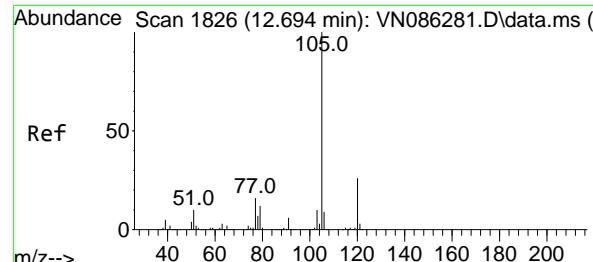
Delta R.T. -0.000 min

Lab File: VN086282.D

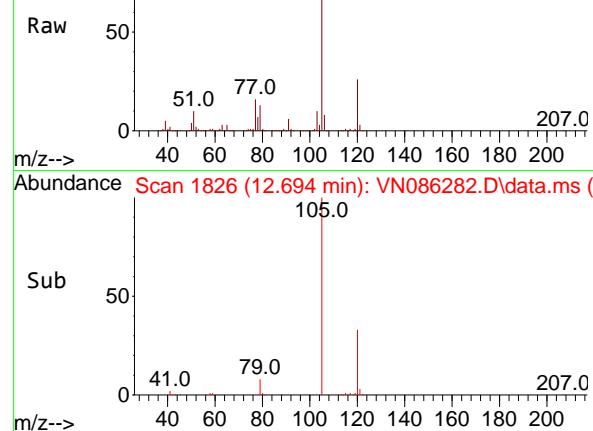
Acq: 15 Apr 2025 14:29

| Tgt | Ion:152 | Resp: 182297 |
|-----|---------|--------------|
| Ion | Ratio | Lower Upper |
| 152 | 100 | |
| 115 | 62.7 | 31.9 95.9 |
| 150 | 189.5 | 0.0 352.0 |





Abundance Scan 1826 (12.694 min): VN086282.D\data.ms (-)



#73

Isopropylbenzene

Concen: 90.597 ug/l

RT: 12.694 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

Instrument:

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:105 Resp: 135100

Ion Ratio Lower Upper

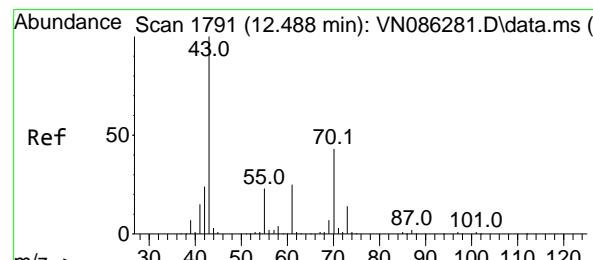
105 100

120 26.2 13.1 39.3

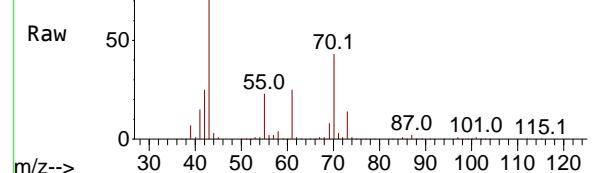
Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/16/2025

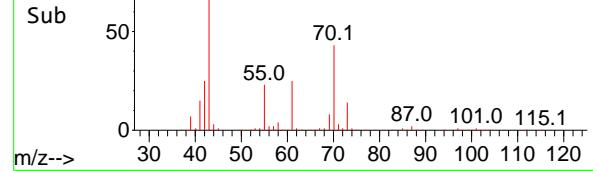
Supervised By :Semsettin Yesilyurt 04/16/2025



Abundance Scan 1791 (12.488 min): VN086282.D\data.ms (-)



Abundance Scan 1791 (12.488 min): VN086282.D\data.ms (-)



#74

N-amyl acetate

Concen: 86.431 ug/l

RT: 12.488 min Scan# 1791

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

Tgt Ion: 43 Resp: 641647

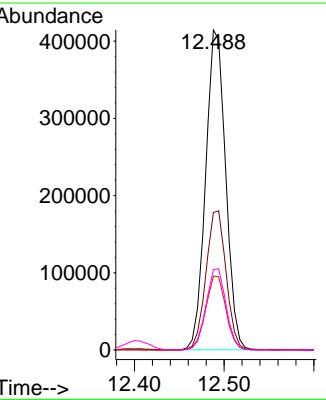
Ion Ratio Lower Upper

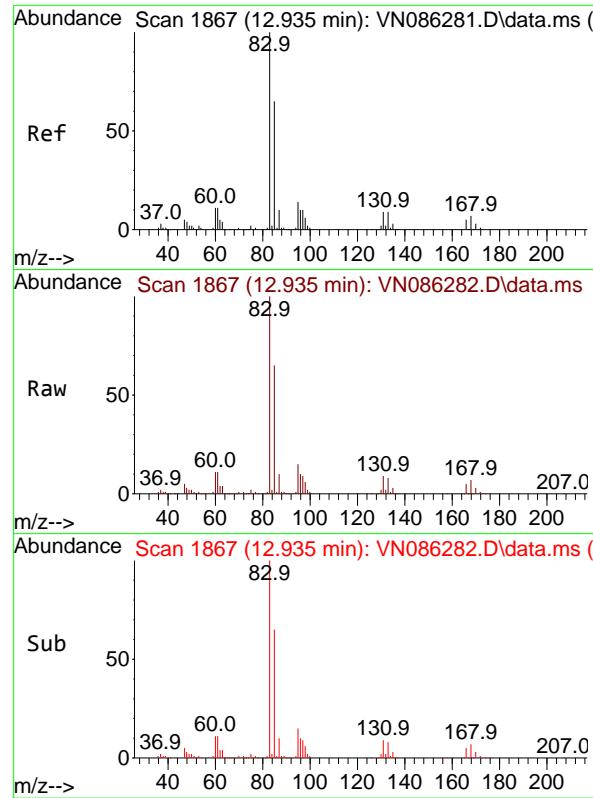
43 100

70 43.9 35.0 52.4

55 23.4 19.0 28.4

61 25.5 19.8 29.8



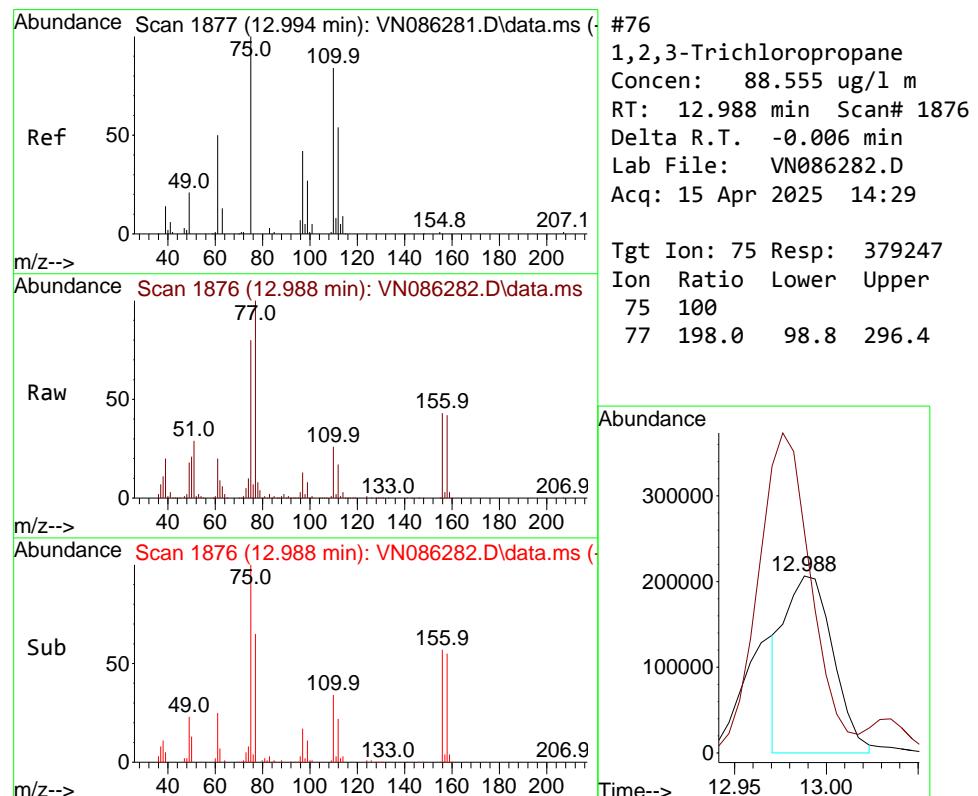
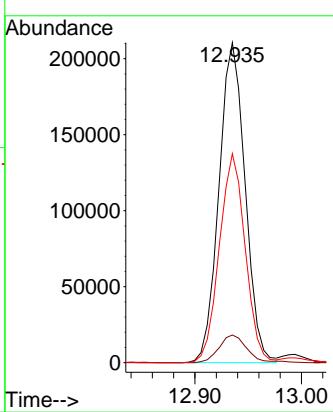


#75
1,1,2,2-Tetrachloroethane
Concen: 83.793 ug/l
RT: 12.935 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29

Instrument : MSVOA_N
ClientSampleId : VSTDICC100

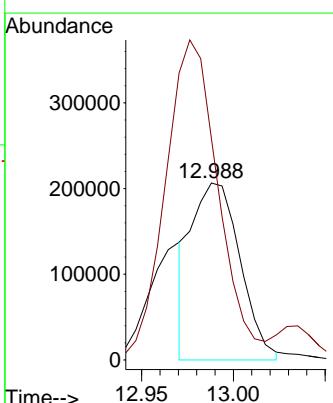
Manual Integrations APPROVED

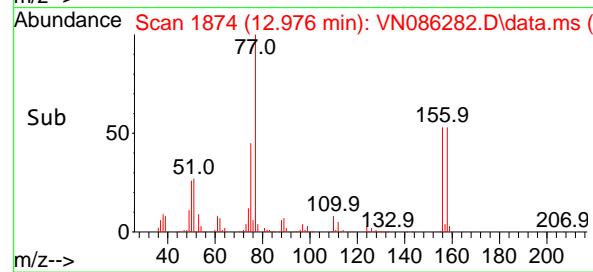
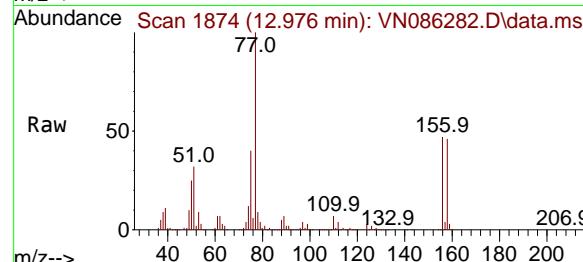
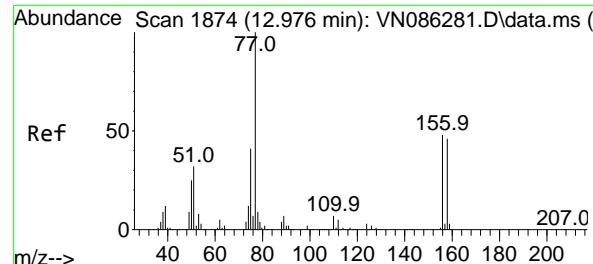
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#76
1,2,3-Trichloropropane
Concen: 88.555 ug/l
RT: 12.988 min Scan# 1876
Delta R.T. -0.006 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29

Tgt Ion: 75 Resp: 379247
Ion Ratio Lower Upper
75 100
77 198.0 98.8 296.4





#77

Bromobenzene

Concen: 91.913 ug/l

RT: 12.976 min Scan# 1874

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

Instrument:

MSVOA_N

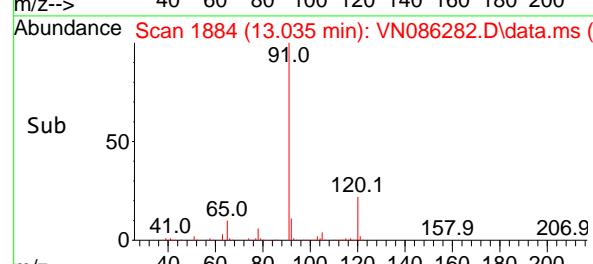
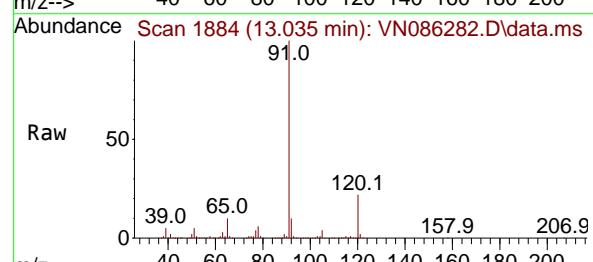
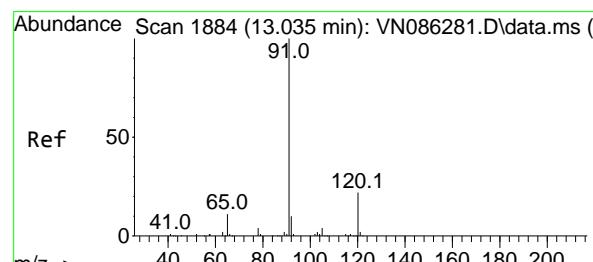
ClientSampleId :

VSTDICC100

**Manual Integrations
APPROVED**

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#78

n-propylbenzene

Concen: 93.386 ug/l

RT: 13.035 min Scan# 1884

Delta R.T. -0.000 min

Lab File: VN086282.D

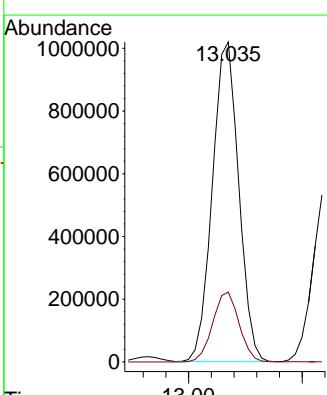
Acq: 15 Apr 2025 14:29

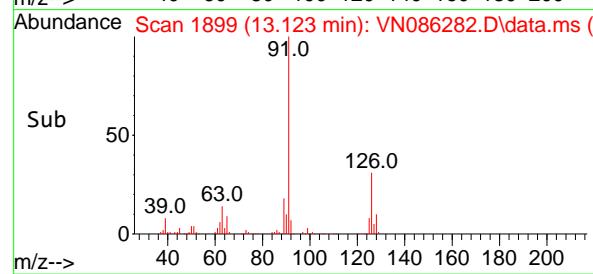
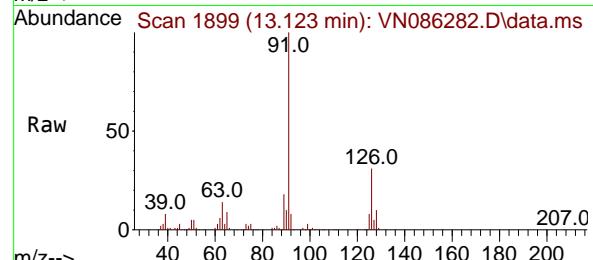
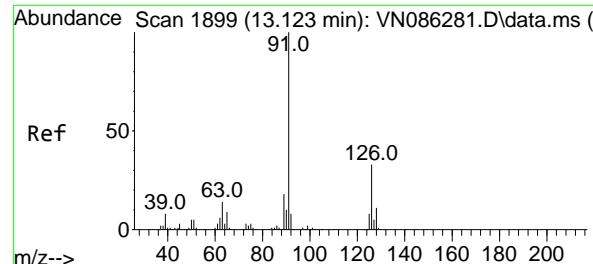
Tgt Ion: 91 Resp: 1640989

Ion Ratio Lower Upper

91 100

120 21.9 11.1 33.3





#79

2-Chlorotoluene

Concen: 91.031 ug/l

RT: 13.123 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

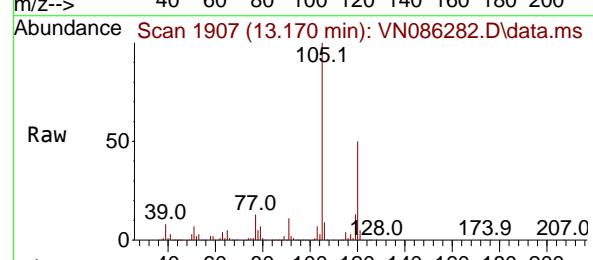
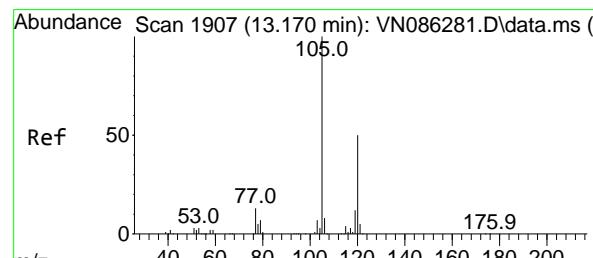
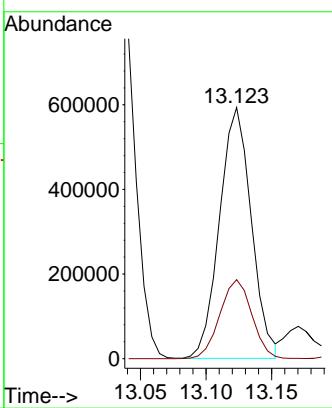
Instrument:

MSVOA_N

ClientSampleId :

VSTDICC100

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#80

1,3,5-Trimethylbenzene

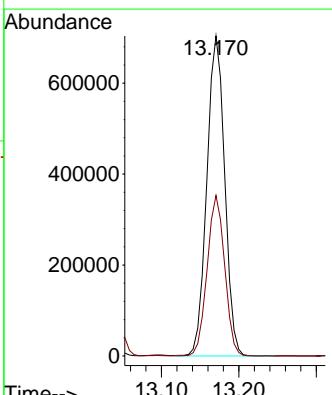
Concen: 92.254 ug/l

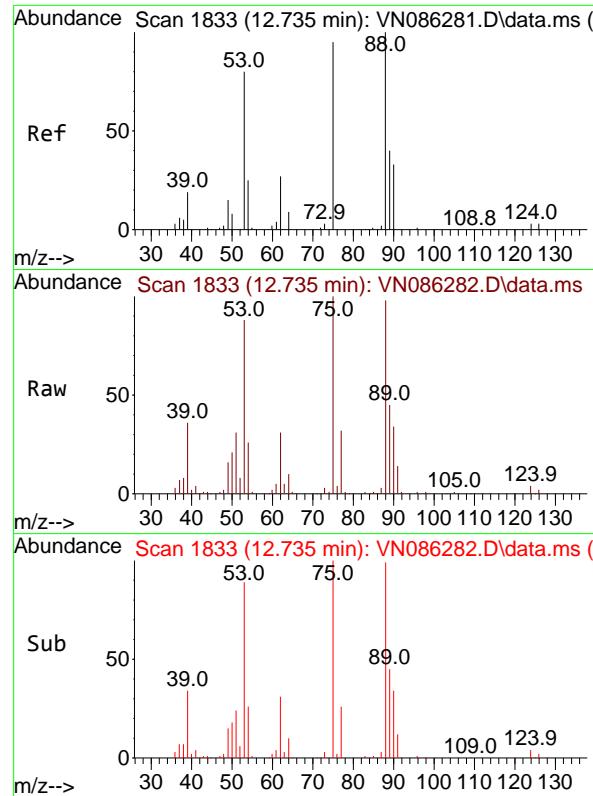
RT: 13.170 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

 Tgt Ion:105 Resp: 1125981
 Ion Ratio Lower Upper
 105 100
 120 49.3 24.5 73.5


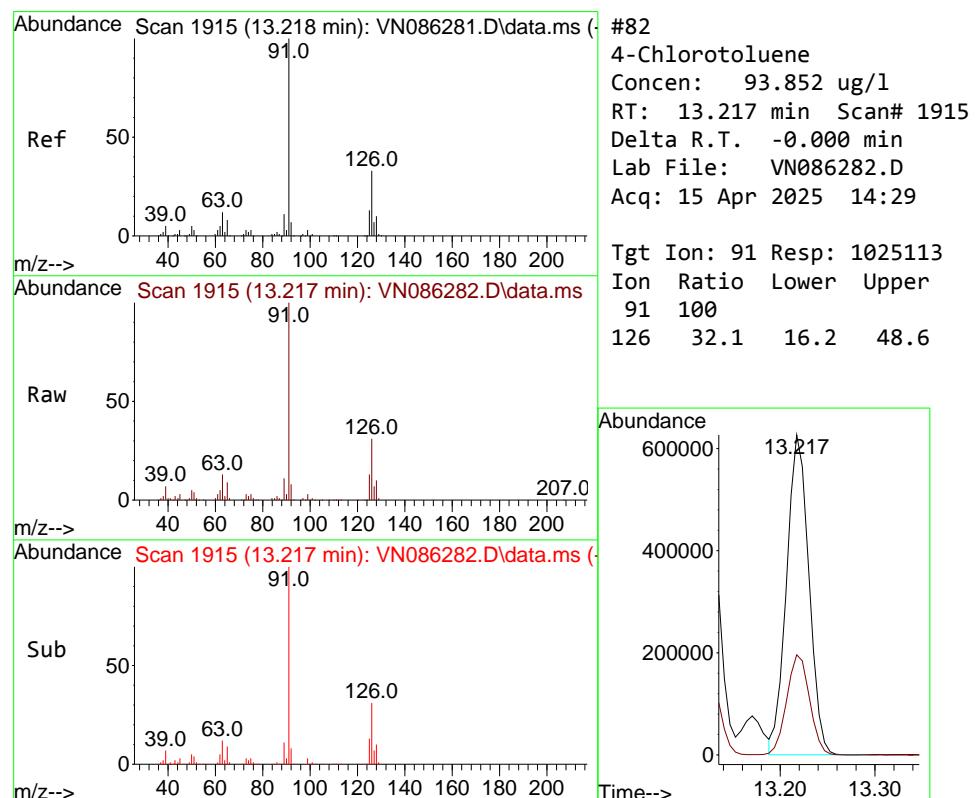
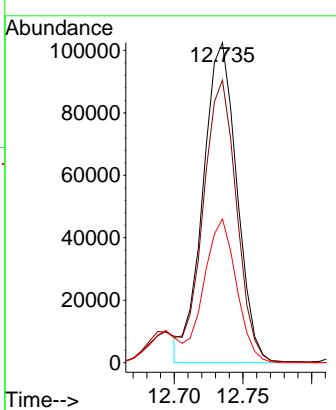


#81
trans-1,4-Dichloro-2-butene
Concen: 98.197 ug/l m
RT: 12.735 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29

Instrument : MSVOA_N
ClientSampleId : VSTDICC100

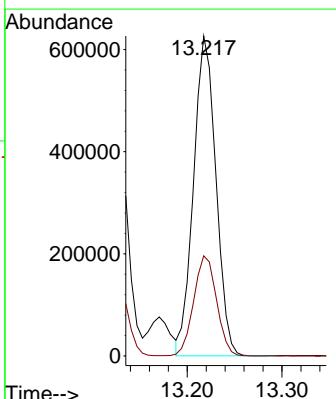
Manual Integrations
APPROVED

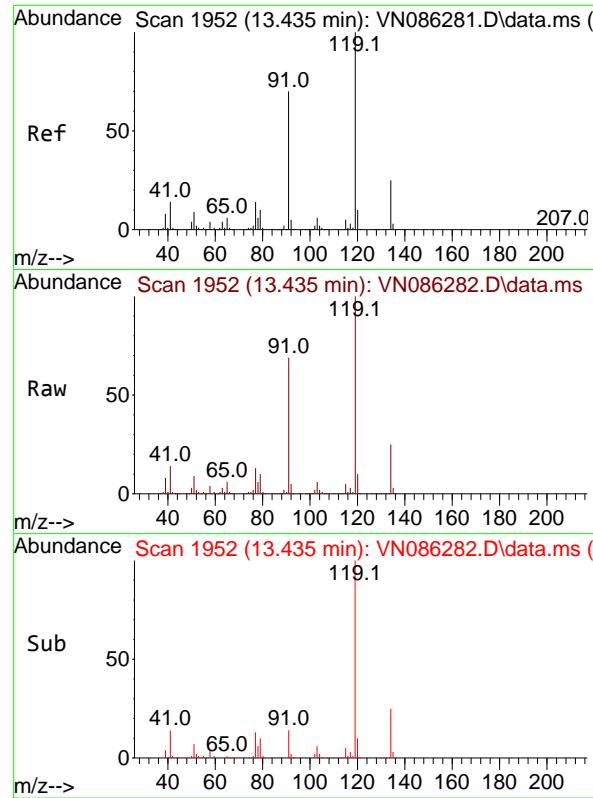
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#82
4-Chlorotoluene
Concen: 93.852 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29

Tgt Ion: 91 Resp: 1025113
Ion Ratio Lower Upper
91 100
126 32.1 16.2 48.6





#83

tert-Butylbenzene

Concen: 92.219 ug/l

RT: 13.435 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

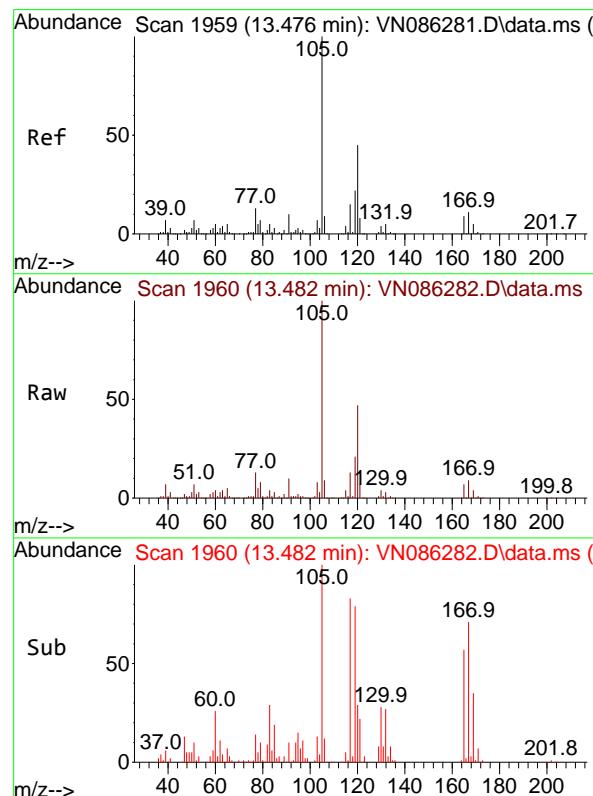
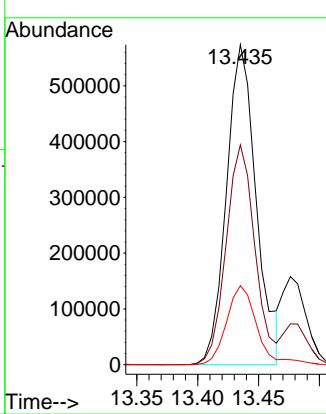
Instrument:

MSVOA_N

ClientSampleId :

VSTDICC100

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#84

1,2,4-Trimethylbenzene

Concen: 92.628 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. 0.006 min

Lab File: VN086282.D

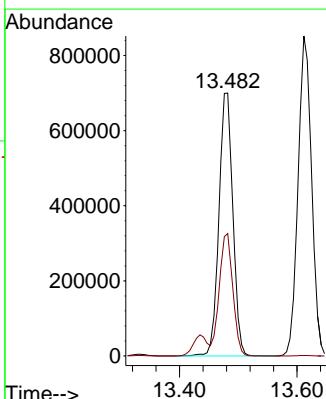
Acq: 15 Apr 2025 14:29

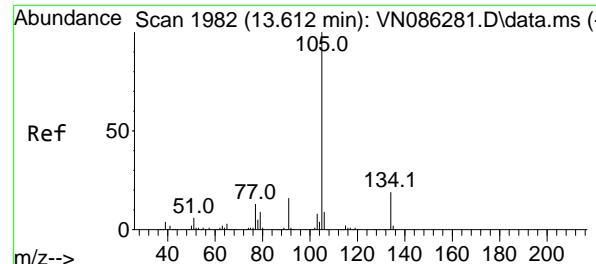
Tgt Ion:105 Resp: 1150791

Ion Ratio Lower Upper

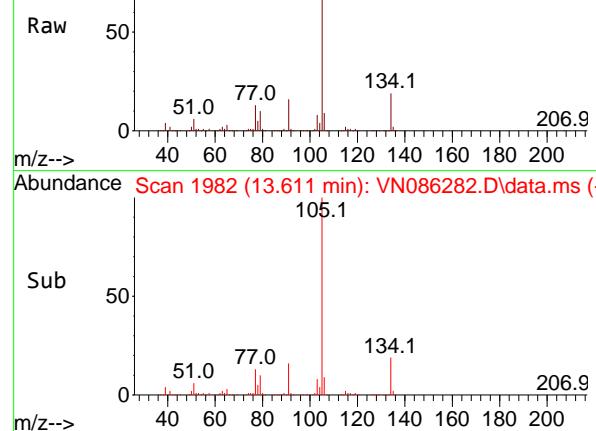
105 100

120 45.2 22.4 67.3





Abundance Scan 1982 (13.611 min): VN086282.D\data.ms (-)



#85

sec-Butylbenzene

Concen: 92.684 ug/l

RT: 13.611 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

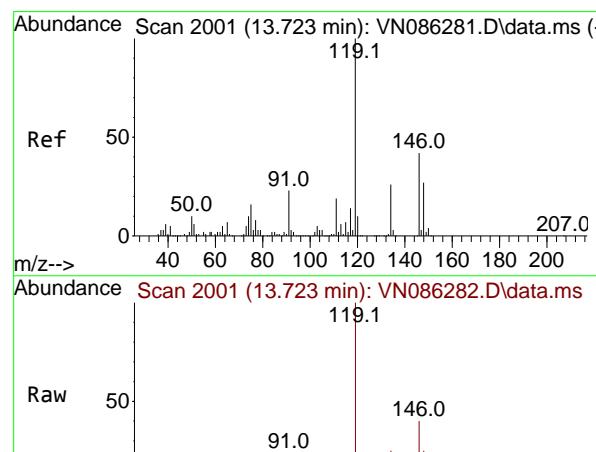
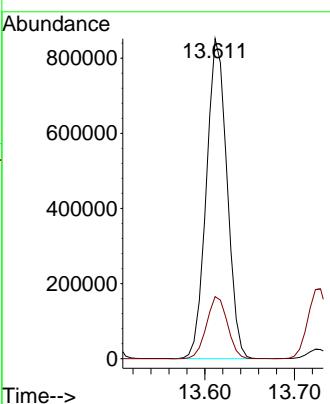
Instrument:

MSVOA_N

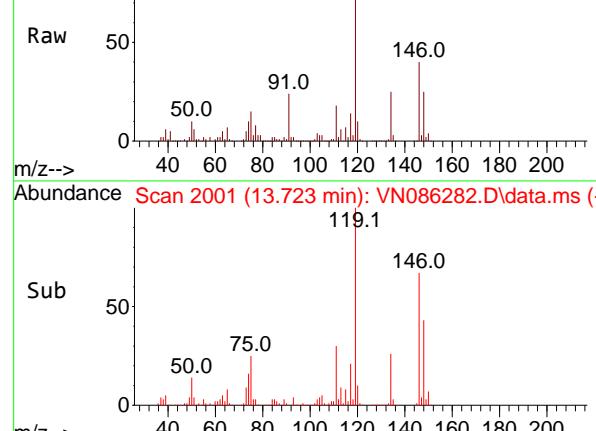
ClientSampleId :

VSTDICC100

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


Abundance Scan 2001 (13.723 min): VN086282.D\data.ms (-)



#86

p-Isopropyltoluene

Concen: 96.040 ug/l

RT: 13.723 min Scan# 2001

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

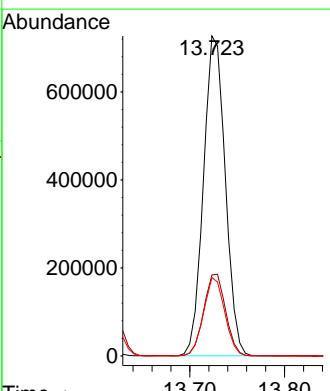
Tgt Ion:119 Resp: 1161224

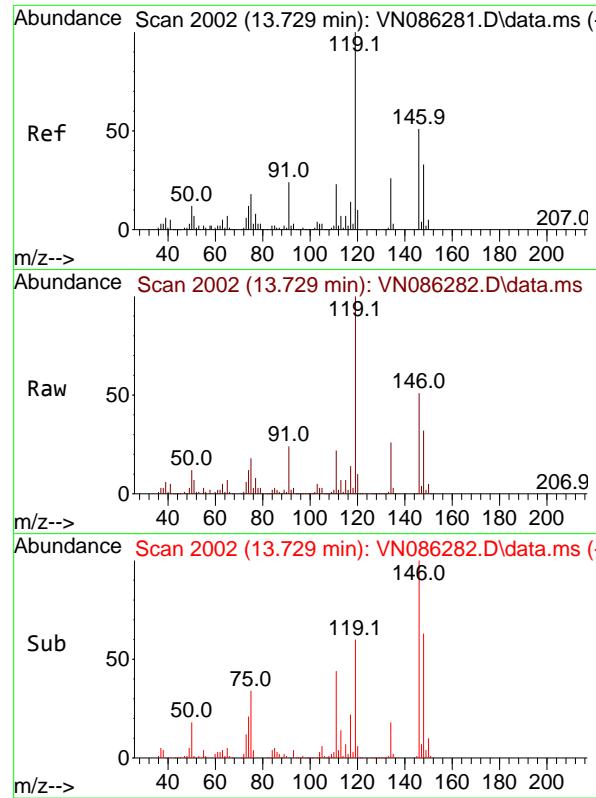
Ion Ratio Lower Upper

119 100

134 25.8 13.1 39.1

91 23.8 11.9 35.9





#87

1,3-Dichlorobenzene

Concen: 94.402 ug/l

RT: 13.729 min Scan# 2

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

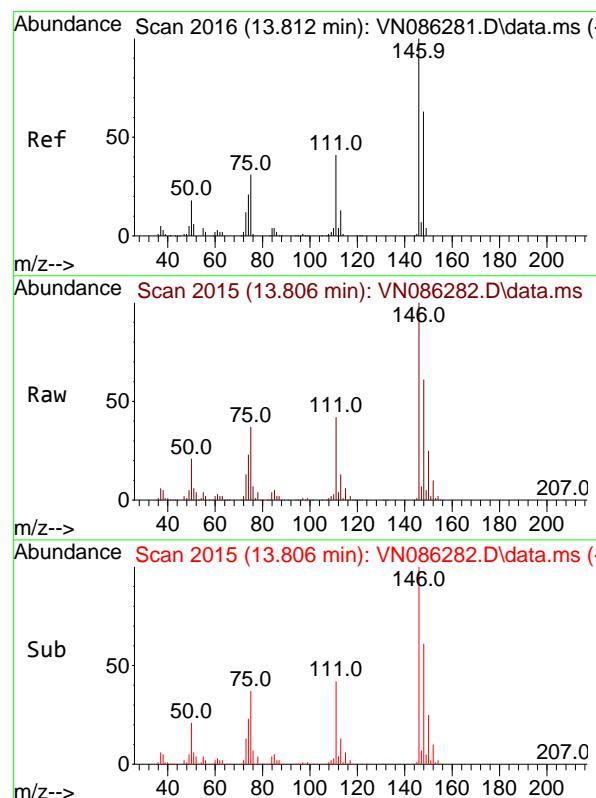
Instrument:

MSVOA_N

ClientSampleId :

VSTDICC100

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#88

1,4-Dichlorobenzene

Concen: 93.077 ug/l

RT: 13.806 min Scan# 2015

Delta R.T. -0.006 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

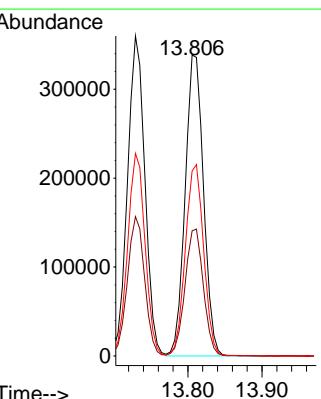
Tgt Ion:146 Resp: 582329

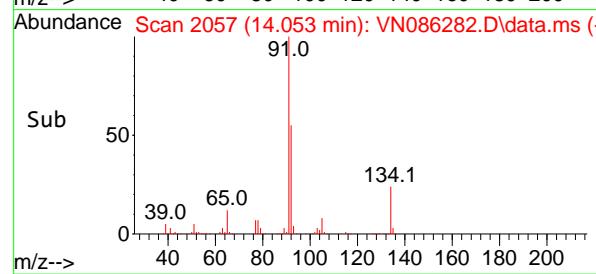
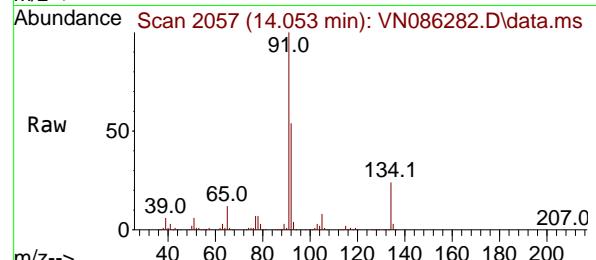
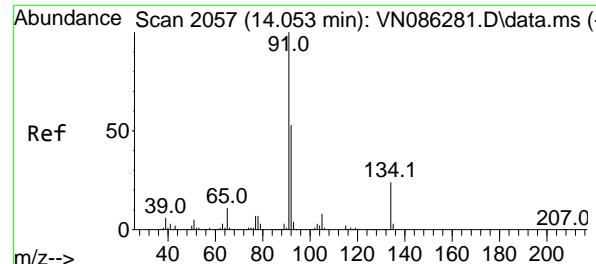
Ion Ratio Lower Upper

146 100

111 42.5 21.3 63.9

148 63.5 31.9 95.9





#89

n-Butylbenzene

Concen: 99.009 ug/l

RT: 14.053 min Scan# 2

Instrument:

MSVOA_N

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

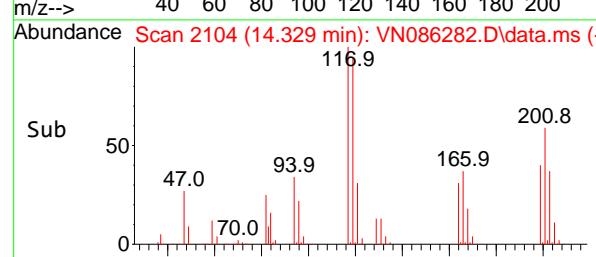
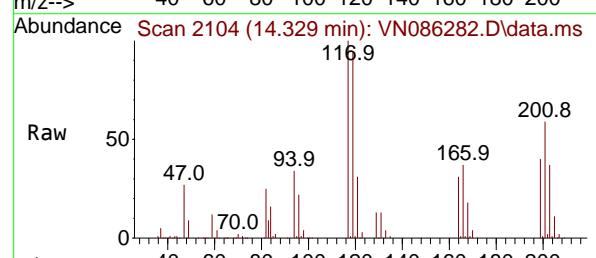
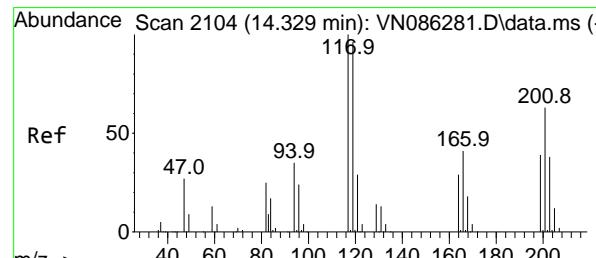
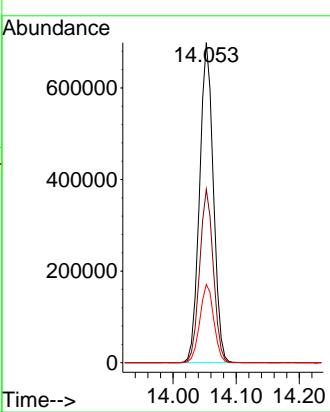
ClientSampleId :

VSTDICC100

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#90

Hexachloroethane

Concen: 96.516 ug/l

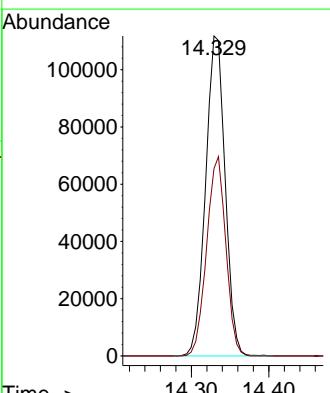
RT: 14.329 min Scan# 2104

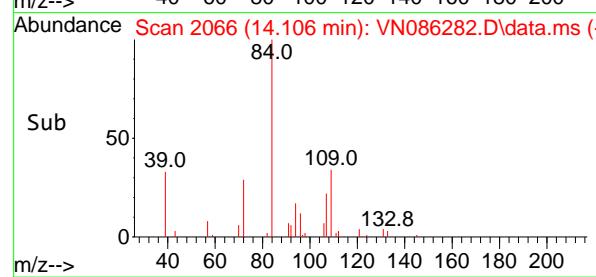
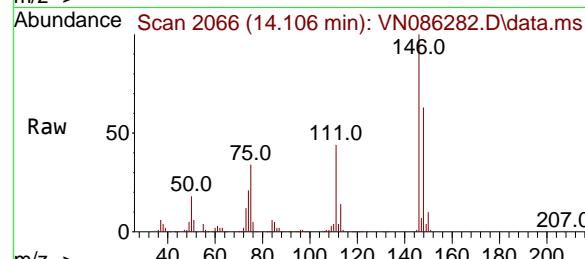
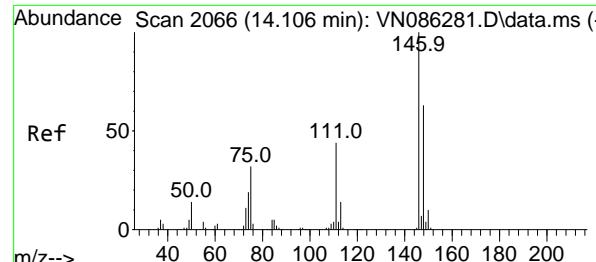
Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

| Tgt | Ion | 100 | Resp: | 196292 |
|-----|-------|-------|-------|--------|
| Ion | Ratio | Lower | Upper | |
| 117 | 100 | | | |
| 201 | 61.2 | 31.4 | 94.2 | |





#91

1,2-Dichlorobenzene

Concen: 90.920 ug/l

RT: 14.106 min Scan# 2

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

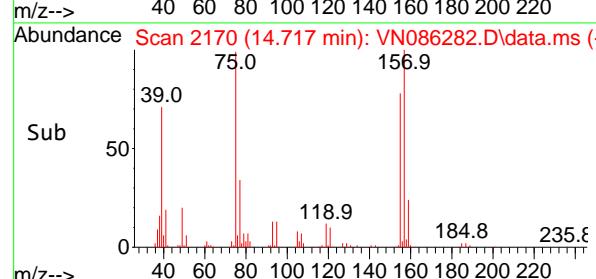
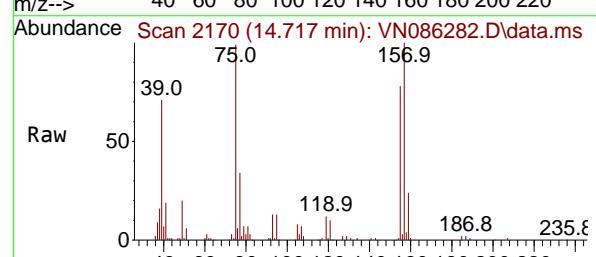
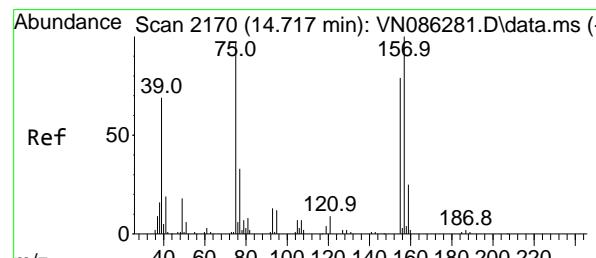
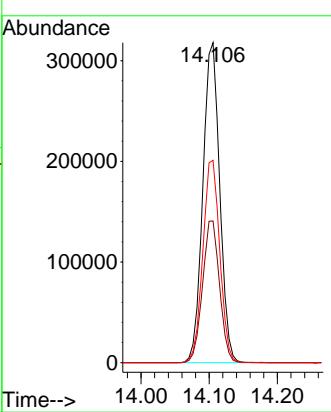
Instrument:

MSVOA_N

ClientSampleId :

VSTDICC100

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#92

1,2-Dibromo-3-Chloropropane

Concen: 89.984 ug/l

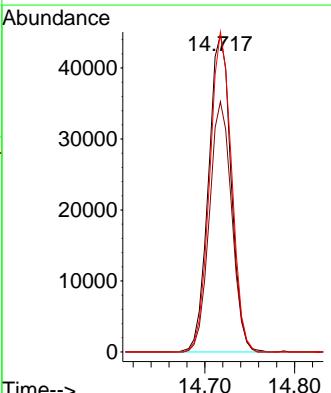
RT: 14.717 min Scan# 2170

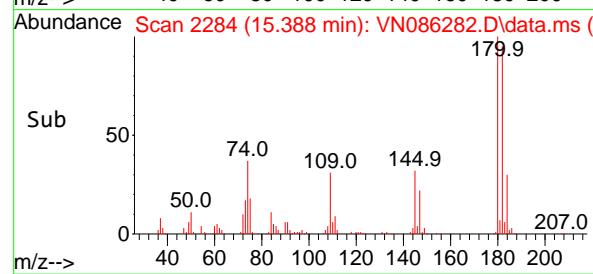
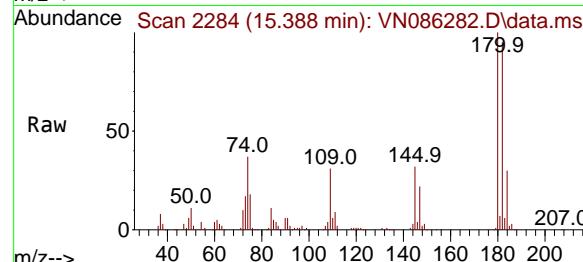
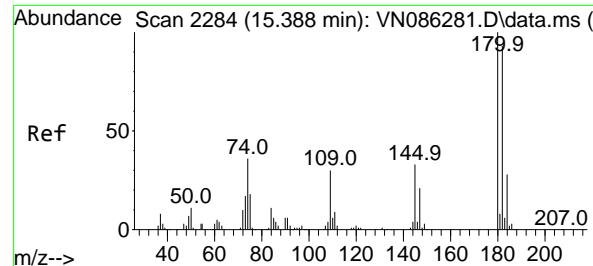
Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

| Tgt | Ion: | 75 | Resp: | 77795 |
|-----|-------|-------|-------|-------|
| Ion | Ratio | Lower | Upper | |
| 75 | 100 | | | |
| 155 | 77.9 | 40.3 | 120.9 | |
| 157 | 98.1 | 49.0 | 147.2 | |





#93

1,2,4-Trichlorobenzene

Concen: 97.461 ug/l

RT: 15.388 min Scan# 2

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

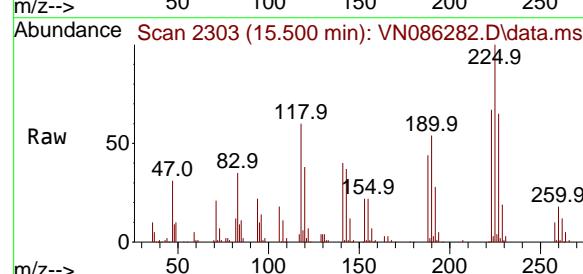
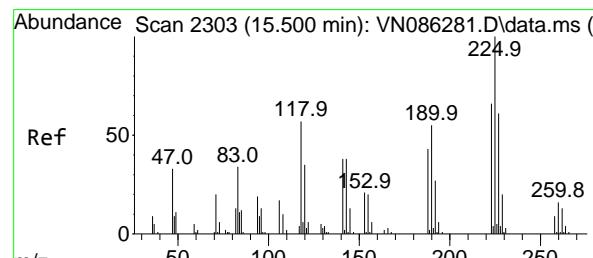
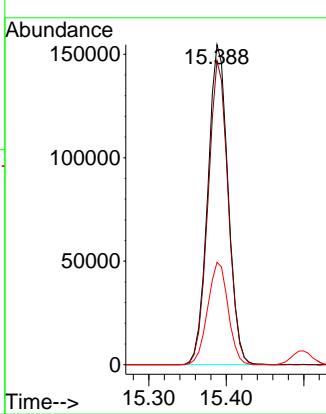
Instrument:

MSVOA_N

ClientSampleId :

VSTDICC100

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#94

Hexachlorobutadiene

Concen: 93.251 ug/l

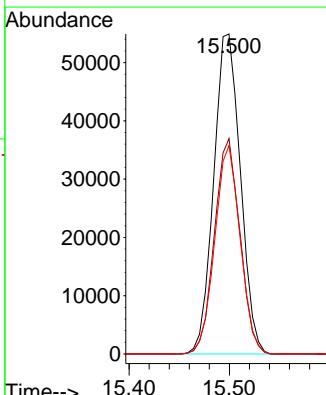
RT: 15.500 min Scan# 2303

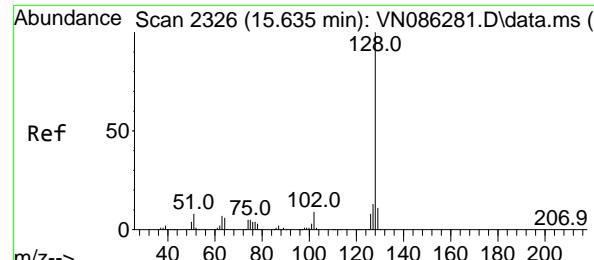
Delta R.T. -0.000 min

Lab File: VN086282.D

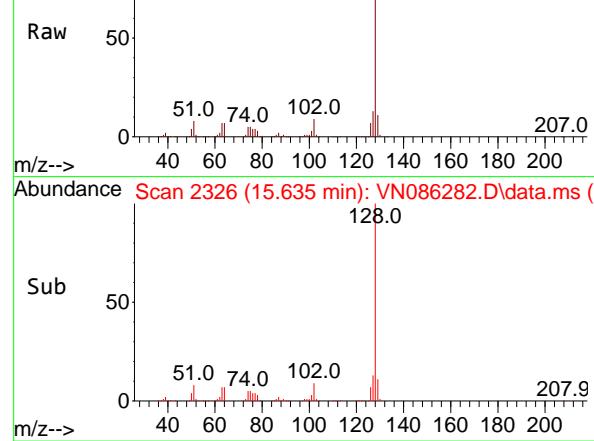
Acq: 15 Apr 2025 14:29

| Tgt | Ion:225 | Resp: | 101506 |
|-----|---------|-------|--------|
| Ion | Ratio | Lower | Upper |
| 225 | 100 | | |
| 223 | 64.2 | 32.8 | 98.3 |
| 227 | 62.0 | 31.4 | 94.0 |

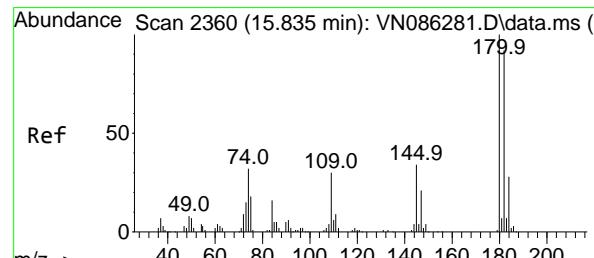
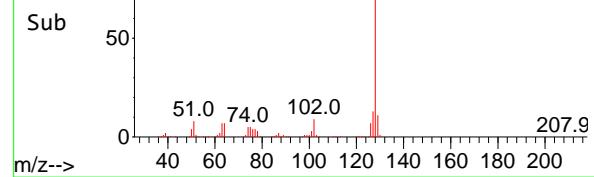




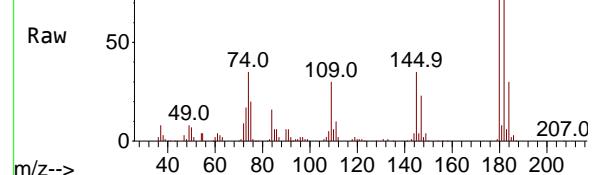
Abundance Scan 2326 (15.635 min): VN086282.D\data.ms (-)



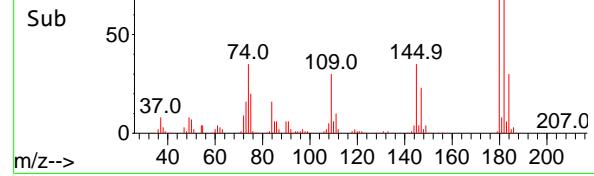
Abundance Scan 2326 (15.635 min): VN086282.D\data.ms (-)



Abundance Scan 2360 (15.835 min): VN086282.D\data.ms (-)



Abundance Scan 2360 (15.835 min): VN086282.D\data.ms (-)



#95

Naphthalene

Concen: 95.390 ug/l

RT: 15.635 min Scan# 2

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:128 Resp: 975079

Ion Ratio Lower Upper

128 100

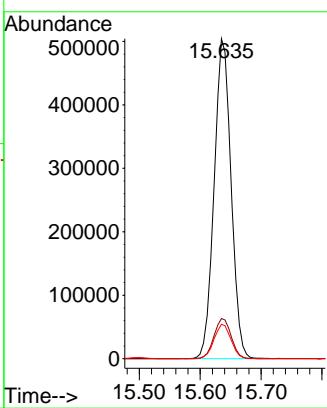
127 12.7 10.2 15.4

129 10.8 8.6 13.0

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#96

1,2,3-Trichlorobenzene

Concen: 94.712 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

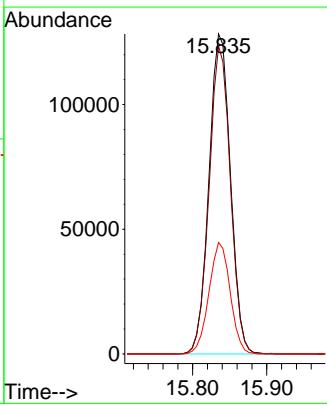
Tgt Ion:180 Resp: 258567

Ion Ratio Lower Upper

180 100

182 95.2 47.3 142.0

145 34.4 17.2 51.5



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041525\
 Data File : VN086284.D
 Acq On : 15 Apr 2025 15:30
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN041525

Quant Time: Apr 16 04:30:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 04:19:23 2025
 Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :John Carlane 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|------------------------------------|----------------|------|----------|---------|----------|----------|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 8.218 | 168 | 232806 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 9.100 | 114 | 435528 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.865 | 117 | 384601 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.788 | 152 | 173902 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.577 | 65 | 169181 | 50.114 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery | = | 100.220% | |
| 35) Dibromofluoromethane | 8.165 | 113 | 96752 | 47.865 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery | = | 95.740% | |
| 50) Toluene-d8 | 10.565 | 98 | 542858 | 50.251 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery | = | 100.500% | |
| 62) 4-Bromofluorobenzene | 12.847 | 95 | 196820 | 49.950 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery | = | 99.900% | |
| Target Compounds | | | | | | |
| | | | | Qvalue | | |
| 2) Dichlorodifluoromethane | 2.124 | 85 | 138594 | 50.220 | ug/l | 100 |
| 3) Chloromethane | 2.359 | 50 | 185786 | 46.321 | ug/l | 99 |
| 4) Vinyl Chloride | 2.518 | 62 | 183873 | 48.040 | ug/l | 98 |
| 5) Bromomethane | 2.953 | 94 | 88943 | 51.662 | ug/l | 98 |
| 6) Chloroethane | 3.118 | 64 | 119261 | 46.557 | ug/l | 99 |
| 7) Trichlorofluoromethane | 3.500 | 101 | 203630 | 48.030 | ug/l | 96 |
| 8) Diethyl Ether | 3.959 | 74 | 88034 | 47.564 | ug/l | 97 |
| 9) 1,1,2-Trichlorotrifluo... | 4.371 | 101 | 124024 | 48.357 | ug/l | 99 |
| 10) Methyl Iodide | 4.589 | 142 | 148899 | 52.806 | ug/l | 98 |
| 11) Tert butyl alcohol | 5.512 | 59 | 143880 | 233.586 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 4.336 | 96 | 129546 | 47.278 | ug/l | 98 |
| 13) Acrolein | 4.177 | 56 | 72276 | 251.743 | ug/l | 99 |
| 14) Allyl chloride | 5.024 | 41 | 220559 | 45.280 | ug/l | 99 |
| 15) Acrylonitrile | 5.712 | 53 | 372009 | 244.312 | ug/l | 99 |
| 16) Acetone | 4.424 | 43 | 297097 | 254.646 | ug/l | 100 |
| 17) Carbon Disulfide | 4.712 | 76 | 360863 | 43.983 | ug/l | 99 |
| 18) Methyl Acetate | 5.018 | 43 | 184731 | 45.586 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.788 | 73 | 474584 | 47.117 | ug/l | 99 |
| 20) Methylene Chloride | 5.271 | 84 | 145872 | 46.740 | ug/l | 100 |
| 21) trans-1,2-Dichloroethene | 5.788 | 96 | 134526 | 46.960 | ug/l | 99 |
| 22) Diisopropyl ether | 6.665 | 45 | 491946 | 46.426 | ug/l | 98 |
| 23) Vinyl Acetate | 6.600 | 43 | 1738360 | 234.680 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 6.565 | 63 | 264324 | 47.277 | ug/l | 99 |
| 25) 2-Butanone | 7.477 | 43 | 501652 | 238.732 | ug/l | 98 |
| 26) 2,2-Dichloropropane | 7.488 | 77 | 233882 | 46.721 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 7.482 | 96 | 167485 | 47.105 | ug/l | 98 |
| 28) Bromochloromethane | 7.812 | 49 | 113893 | 48.044 | ug/l | 100 |
| 29) Tetrahydrofuran | 7.835 | 42 | 326414 | 232.296 | ug/l | 100 |
| 30) Chloroform | 7.959 | 83 | 258393 | 47.047 | ug/l | 99 |
| 31) Cyclohexane | 8.253 | 56 | 247077 | 45.162 | ug/l | 99 |
| 32) 1,1,1-Trichloroethane | 8.165 | 97 | 222630 | 47.385 | ug/l | 97 |
| 36) 1,1-Dichloropropene | 8.371 | 75 | 191295 | 47.382 | ug/l | 100 |
| 37) Ethyl Acetate | 7.553 | 43 | 195455 | 45.984 | ug/l | 100 |
| 38) Carbon Tetrachloride | 8.359 | 117 | 182531 | 47.475 | ug/l | 98 |
| 39) Methylcyclohexane | 9.594 | 83 | 220275 | 45.902 | ug/l | 97 |
| 40) Benzene | 8.600 | 78 | 610128 | 47.168 | ug/l | 98 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041525\
 Data File : VN086284.D
 Acq On : 15 Apr 2025 15:30
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN041525

Quant Time: Apr 16 04:30:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 04:19:23 2025
 Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :John Carlane 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile | 7.777 | 41 | 113052 | 45.892 | ug/1 | 98 |
| 42) 1,2-Dichloroethane | 8.665 | 62 | 195922 | 47.496 | ug/1 | 100 |
| 43) Isopropyl Acetate | 8.682 | 43 | 370579 | 48.649 | ug/1 | 100 |
| 44) Trichloroethene | 9.347 | 130 | 145334 | 47.403 | ug/1 | 99 |
| 45) 1,2-Dichloropropane | 9.618 | 63 | 149775 | 47.302 | ug/1 | 98 |
| 46) Dibromomethane | 9.706 | 93 | 98395 | 48.772 | ug/1 | 100 |
| 47) Bromodichloromethane | 9.882 | 83 | 207763 | 47.682 | ug/1 | 99 |
| 48) Methyl methacrylate | 9.676 | 41 | 170007 | 45.546 | ug/1 | 98 |
| 49) 1,4-Dioxane | 9.688 | 88 | 59040 | 929.893 | ug/1 | 99 |
| 51) 4-Methyl-2-Pentanone | 10.441 | 43 | 1036849 | 238.220 | ug/1 | 99 |
| 52) Toluene | 10.629 | 92 | 383010 | 47.453 | ug/1 | 100 |
| 53) t-1,3-Dichloropropene | 10.829 | 75 | 235221 | 48.360 | ug/1 | 100 |
| 54) cis-1,3-Dichloropropene | 10.306 | 75 | 250676 | 46.923 | ug/1 | 98 |
| 55) 1,1,2-Trichloroethane | 11.012 | 97 | 136227 | 46.911 | ug/1 | 97 |
| 56) Ethyl methacrylate | 10.871 | 69 | 253092 | 47.414 | ug/1 | 99 |
| 57) 1,3-Dichloropropane | 11.159 | 76 | 246129 | 47.770 | ug/1 | 100 |
| 58) 2-Chloroethyl Vinyl ether | 10.159 | 63 | 612932 | 241.924 | ug/1 | 99 |
| 59) 2-Hexanone | 11.188 | 43 | 759846 | 235.364 | ug/1 | 99 |
| 60) Dibromochloromethane | 11.353 | 129 | 152321 | 47.767 | ug/1 | 99 |
| 61) 1,2-Dibromoethane | 11.465 | 107 | 139994 | 47.777 | ug/1 | 100 |
| 64) Tetrachloroethene | 11.100 | 164 | 140342 | 47.439 | ug/1 | 99 |
| 65) Chlorobenzene | 11.888 | 112 | 401122 | 46.735 | ug/1 | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 11.959 | 131 | 133755 | 47.238 | ug/1 | 99 |
| 67) Ethyl Benzene | 11.959 | 91 | 730984 | 47.196 | ug/1 | 100 |
| 68) m/p-Xylenes | 12.070 | 106 | 551289 | 94.994 | ug/1 | 100 |
| 69) o-Xylene | 12.394 | 106 | 269992 | 47.043 | ug/1 | 100 |
| 70) Styrene | 12.406 | 104 | 460331 | 48.138 | ug/1 | 100 |
| 71) Bromoform | 12.576 | 173 | 101548 | 47.634 | ug/1 # | 98 |
| 73) Isopropylbenzene | 12.694 | 105 | 667602 | 46.930 | ug/1 | 100 |
| 74) N-amyl acetate | 12.488 | 43 | 320394 | 45.241 | ug/1 | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.935 | 83 | 186111 | 45.501 | ug/1 | 100 |
| 76) 1,2,3-Trichloropropane | 12.988 | 75 | 187464m | 45.680 | ug/1 | |
| 77) Bromobenzene | 12.976 | 156 | 150856 | 47.860 | ug/1 | 98 |
| 78) n-propylbenzene | 13.029 | 91 | 794892 | 47.420 | ug/1 | 99 |
| 79) 2-Chlorotoluene | 13.123 | 91 | 493124 | 47.012 | ug/1 | 99 |
| 80) 1,3,5-Trimethylbenzene | 13.170 | 105 | 550039 | 47.241 | ug/1 | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.735 | 75 | 84822m | 49.639 | ug/1 | |
| 82) 4-Chlorotoluene | 13.217 | 91 | 495478 | 47.552 | ug/1 | 99 |
| 83) tert-Butylbenzene | 13.435 | 119 | 461626 | 45.757 | ug/1 | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.476 | 105 | 561084 | 47.342 | ug/1 | 100 |
| 85) sec-Butylbenzene | 13.612 | 105 | 650246 | 46.468 | ug/1 | 99 |
| 86) p-Isopropyltoluene | 13.729 | 119 | 546663 | 47.395 | ug/1 | 100 |
| 87) 1,3-Dichlorobenzene | 13.729 | 146 | 278387 | 46.983 | ug/1 | 99 |
| 88) 1,4-Dichlorobenzene | 13.806 | 146 | 282403 | 47.319 | ug/1 | 99 |
| 89) n-Butylbenzene | 14.053 | 91 | 482335 | 47.178 | ug/1 | 100 |
| 90) Hexachloroethane | 14.329 | 117 | 92416 | 47.634 | ug/1 | 99 |
| 91) 1,2-Dichlorobenzene | 14.106 | 146 | 273135 | 47.545 | ug/1 | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.717 | 75 | 39601 | 48.017 | ug/1 | 99 |
| 93) 1,2,4-Trichlorobenzene | 15.388 | 180 | 131639 | 47.854 | ug/1 | 100 |
| 94) Hexachlorobutadiene | 15.500 | 225 | 48079 | 46.301 | ug/1 | 100 |
| 95) Naphthalene | 15.635 | 128 | 472042 | 48.408 | ug/1 | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.835 | 180 | 123220 | 47.314 | ug/1 | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041525\
Data File : VN086284.D
Acq On : 15 Apr 2025 15:30
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN041525

Quant Time: Apr 16 04:30:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 16 04:19:23 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :John Carbone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041525\
 Data File : VN086284.D
 Acq On : 15 Apr 2025 15:30
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

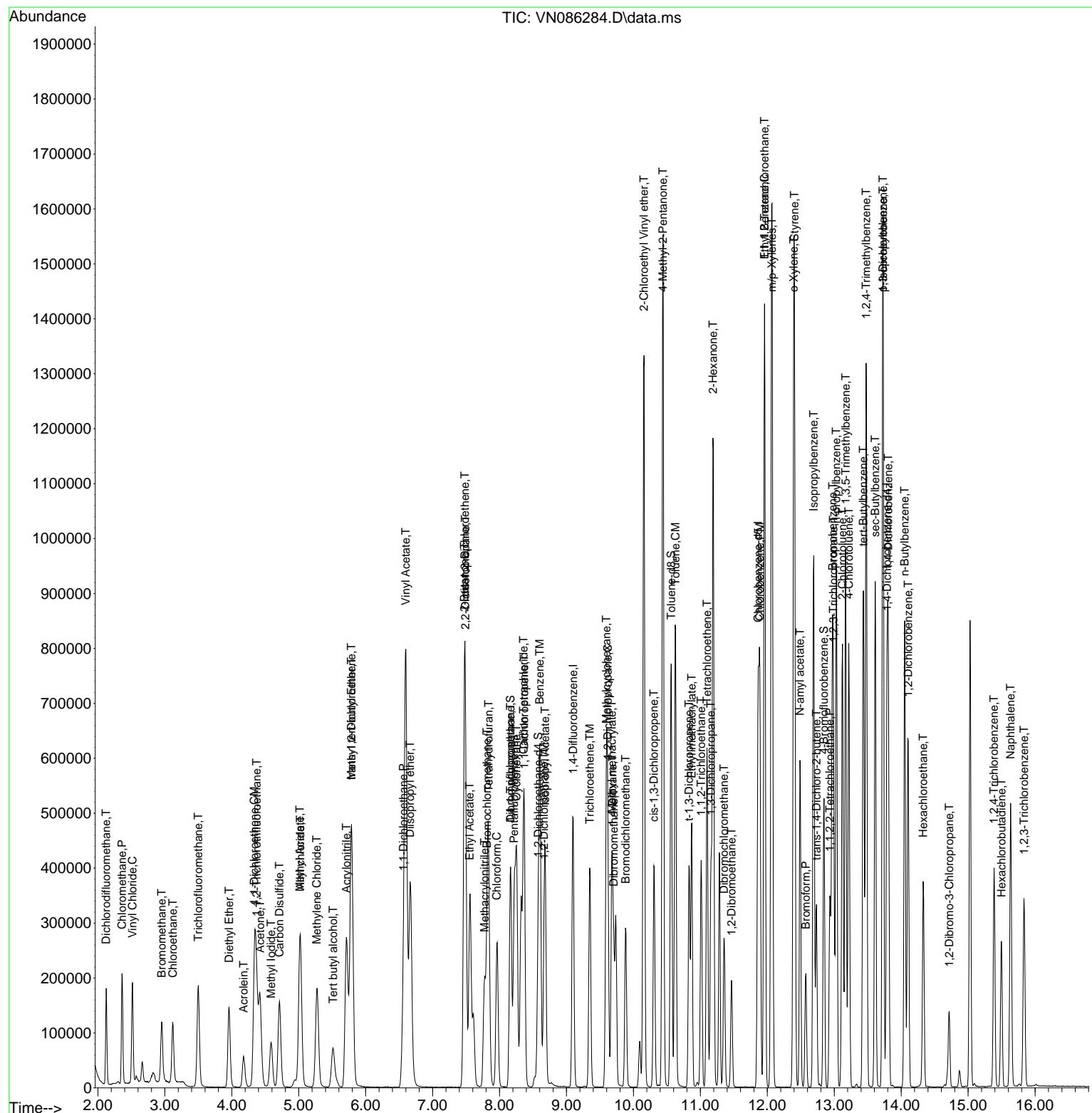
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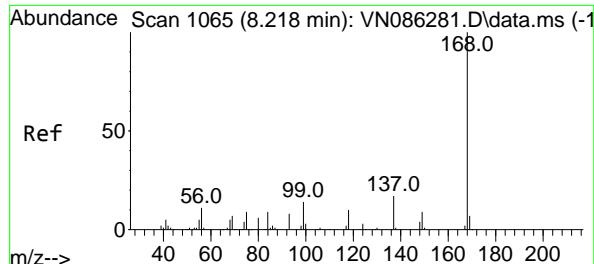
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 Response via : Initial Calibration

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN041525

Manual Integrations
APPROVED

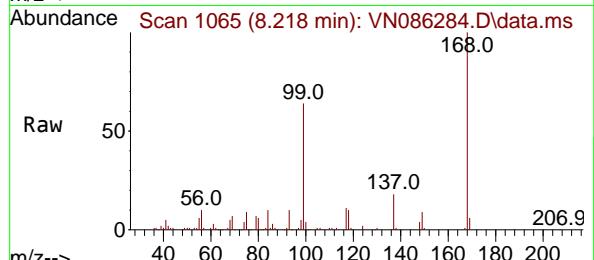
Reviewed By :John Carlane 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025





#1
 Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 8.218 min Scan# 1
 Delta R.T. -0.000 min
 Lab File: VN086284.D
 Acq: 15 Apr 2025 15:30

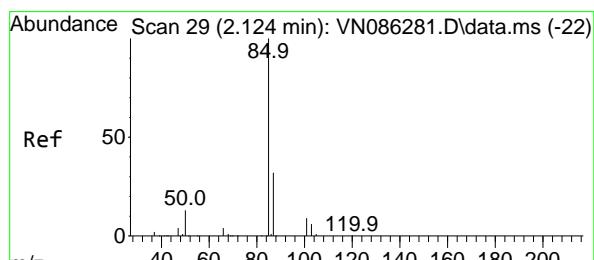
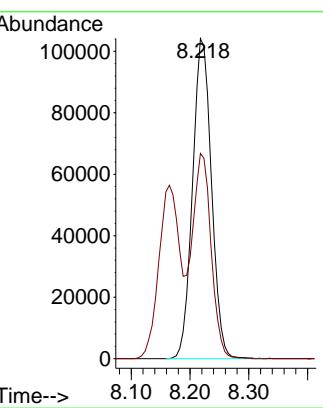
Instrument : MSVOA_N
 ClientSampleId : ICVVN041525



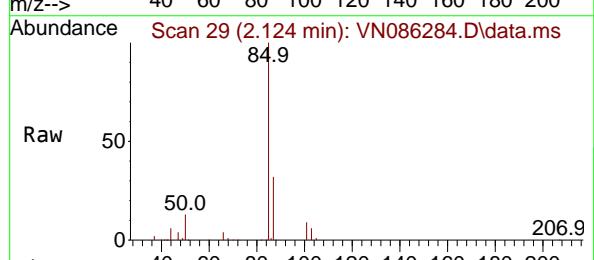
Tgt Ion:168 Resp: 232800
 Ion Ratio Lower Upper
 168 100
 99 64.2 52.5 78.7

Manual Integrations
APPROVED

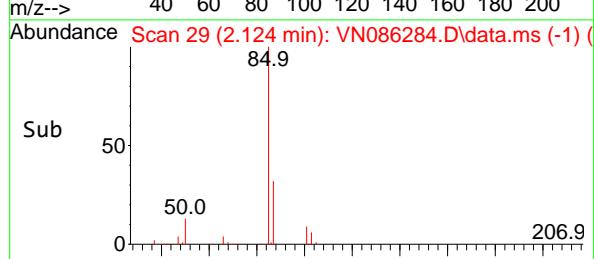
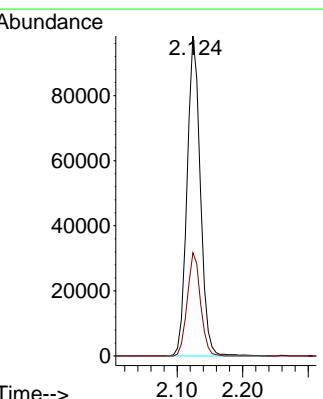
Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025

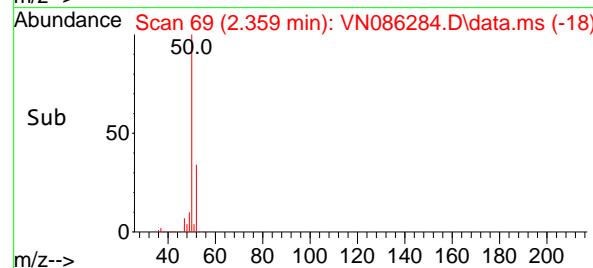
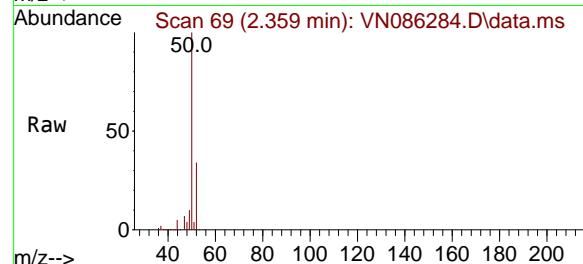
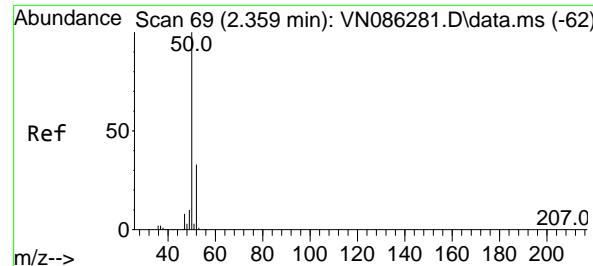


#2
 Dichlorodifluoromethane
 Concen: 50.220 ug/l
 RT: 2.124 min Scan# 29
 Delta R.T. -0.000 min
 Lab File: VN086284.D
 Acq: 15 Apr 2025 15:30



Tgt Ion: 85 Resp: 138594
 Ion Ratio Lower Upper
 85 100
 87 32.2 16.3 48.8



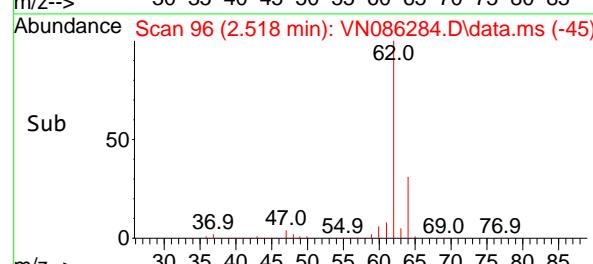
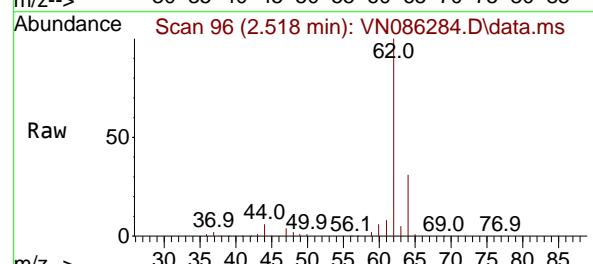
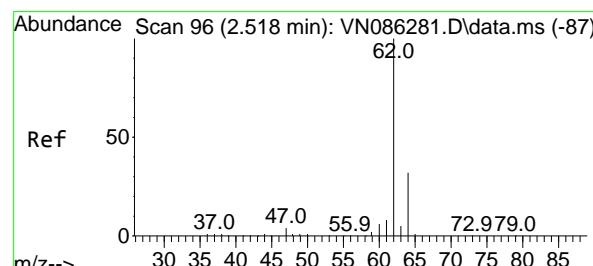
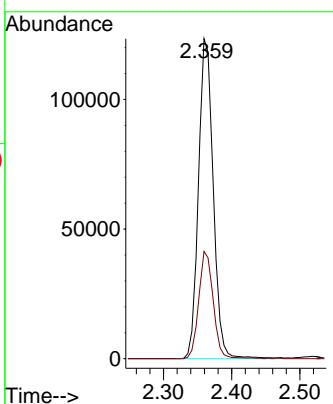


#3
 Chloromethane
 Concen: 46.321 ug/l
 RT: 2.359 min Scan# 6
 Delta R.T. -0.000 min
 Lab File: VN086284.D
 Acq: 15 Apr 2025 15:30

Instrument : MSVOA_N
 ClientSampleId : ICVVN041525

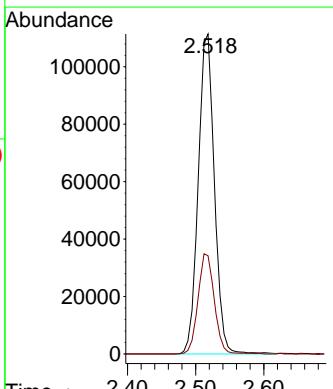
Manual Integrations APPROVED

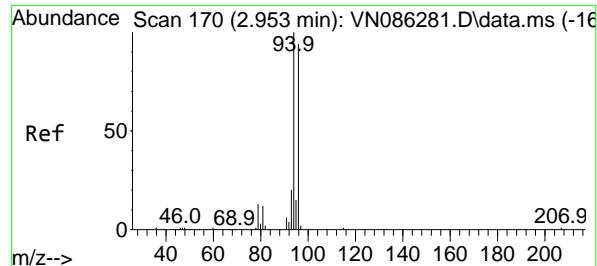
Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025



#4
 Vinyl Chloride
 Concen: 48.040 ug/l
 RT: 2.518 min Scan# 96
 Delta R.T. -0.000 min
 Lab File: VN086284.D
 Acq: 15 Apr 2025 15:30

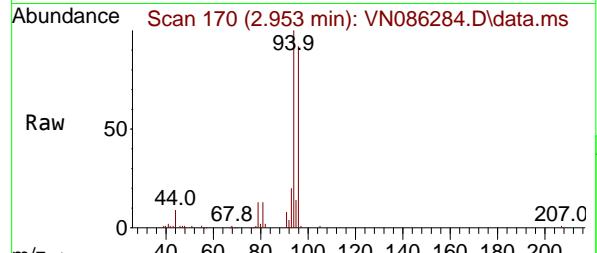
Tgt Ion: 62 Resp: 183873
 Ion Ratio Lower Upper
 62 100
 64 30.7 25.6 38.4





#5
Bromomethane
Concen: 51.662 ug/l
RT: 2.953 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30

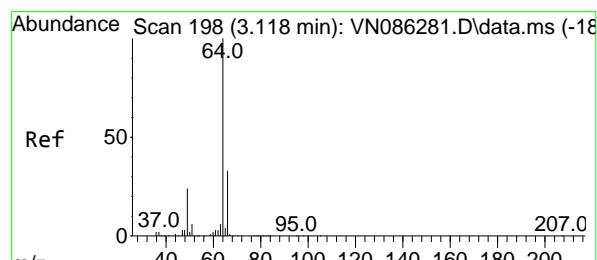
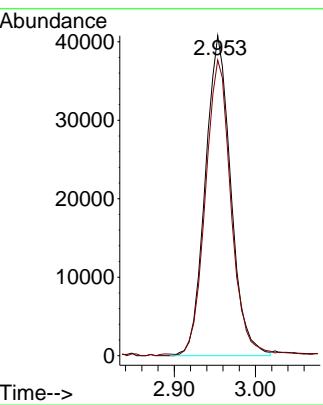
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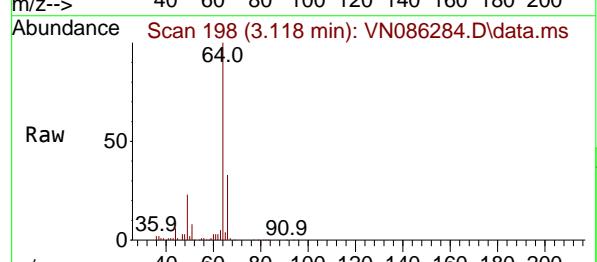
Tgt Ion: 94 Resp: 8894
Ion Ratio Lower Upper
94 100
96 91.9 75.2 112.8

Manual Integrations APPROVED

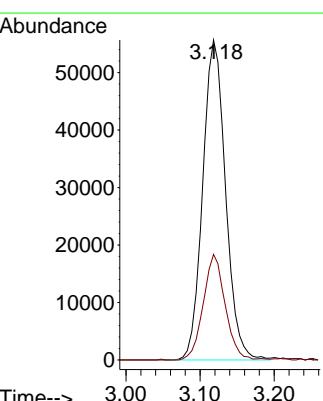
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

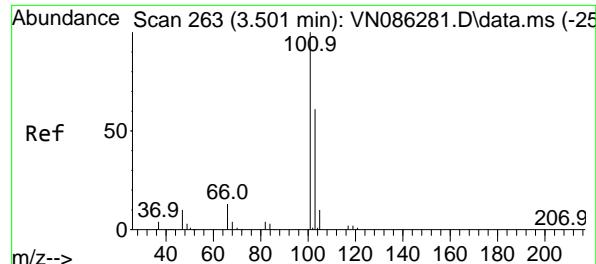


#6
Chloroethane
Concen: 46.557 ug/l
RT: 3.118 min Scan# 198
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30



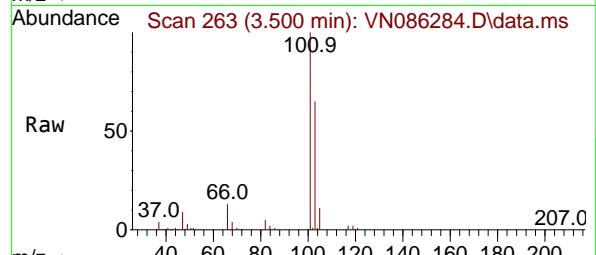
Tgt Ion: 64 Resp: 119261
Ion Ratio Lower Upper
64 100
66 33.0 26.2 39.2





#7
Trichlorofluoromethane
Concen: 48.030 ug/l
RT: 3.500 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30

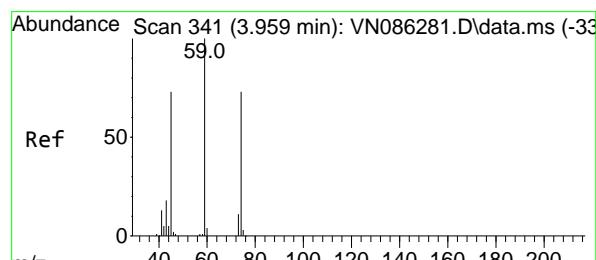
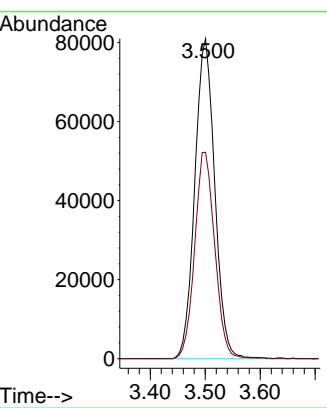
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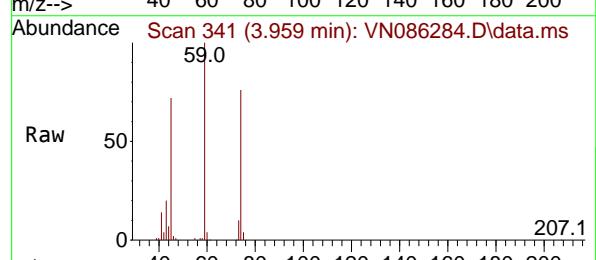
Tgt Ion:101 Resp: 203630
Ion Ratio Lower Upper
101 100
103 64.5 49.2 73.8

Manual Integrations APPROVED

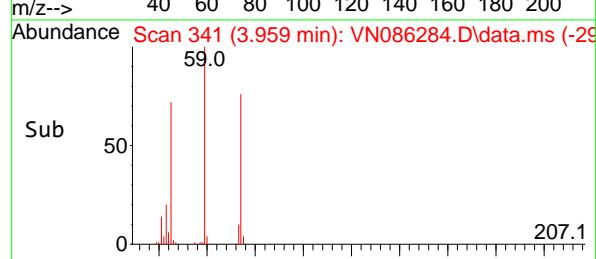
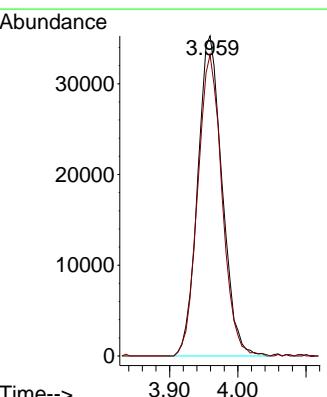
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

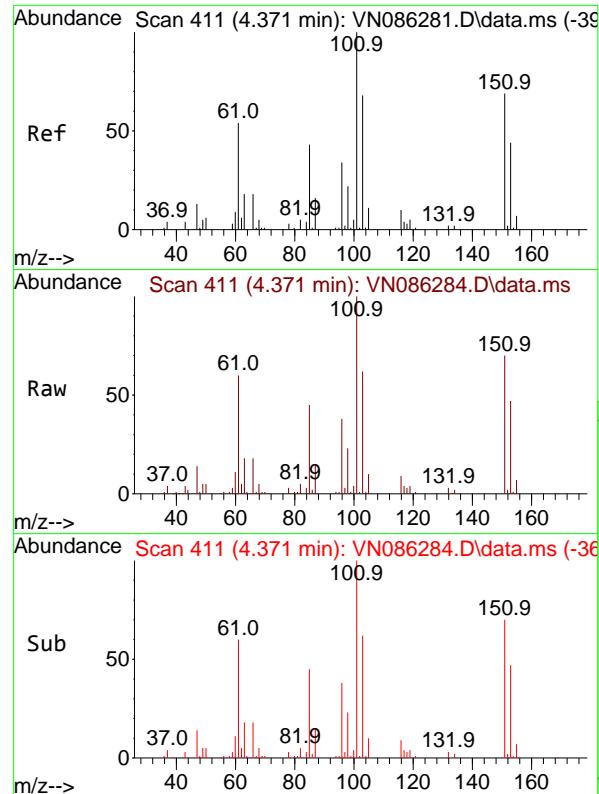


#8
Diethyl Ether
Concen: 47.564 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30



Tgt Ion: 74 Resp: 88034
Ion Ratio Lower Upper
74 100
45 93.5 48.0 144.2

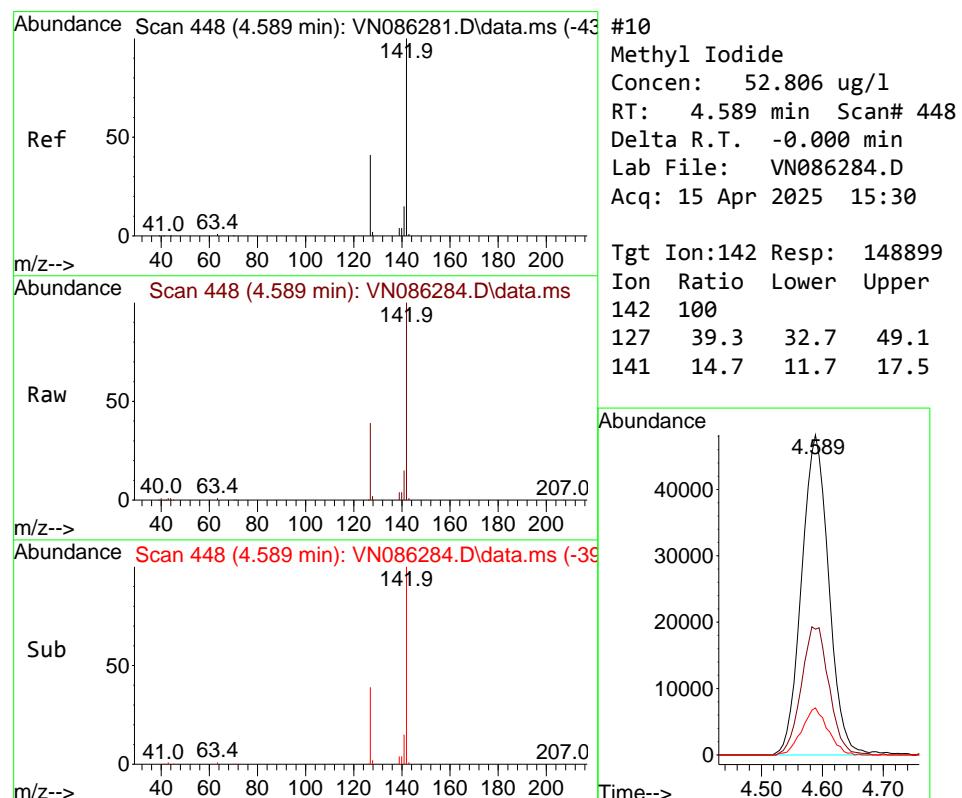
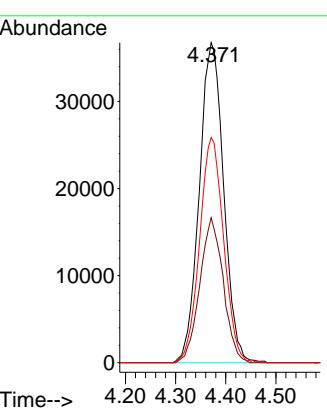




#9
1,1,2-Trichlorotrifluoroethane
Concen: 48.357 ug/l
RT: 4.371 min Scan# 4
Instrument : MSVOA_N
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30
ClientSampleId : ICVVN041525

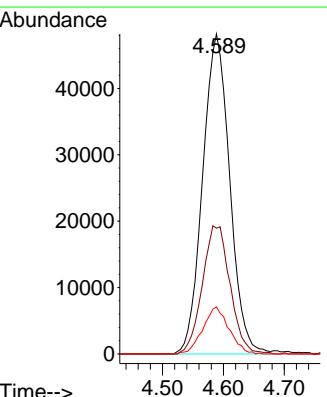
Manual Integrations
APPROVED

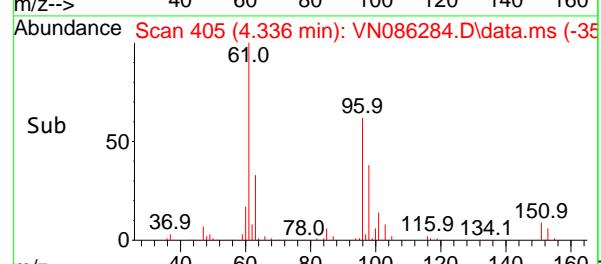
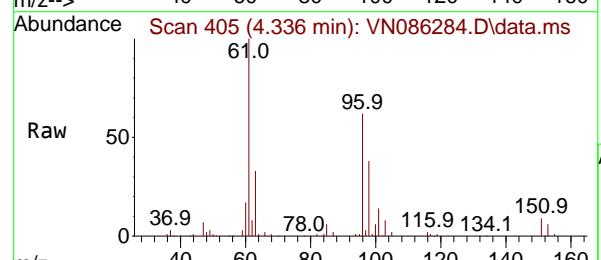
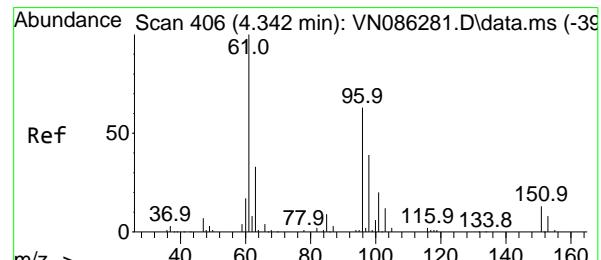
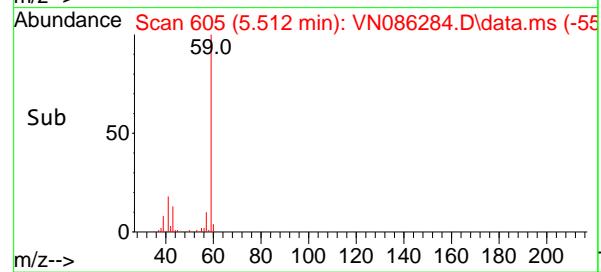
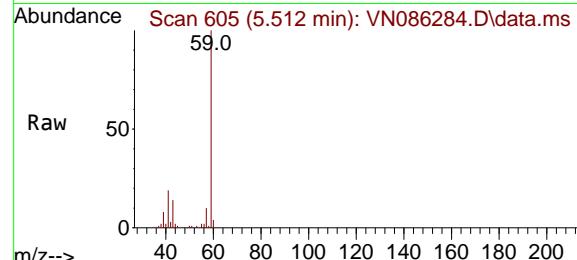
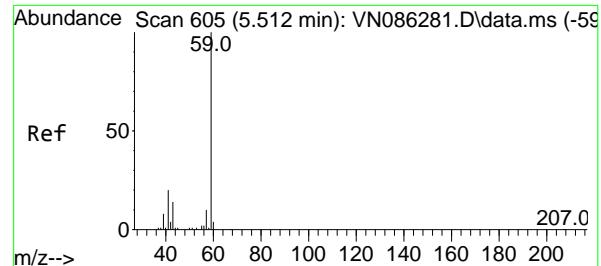
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#10
Methyl Iodide
Concen: 52.806 ug/l
RT: 4.589 min Scan# 448
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30

Tgt Ion:142 Resp: 148899
Ion Ratio Lower Upper
142 100
127 39.3 32.7 49.1
141 14.7 11.7 17.5





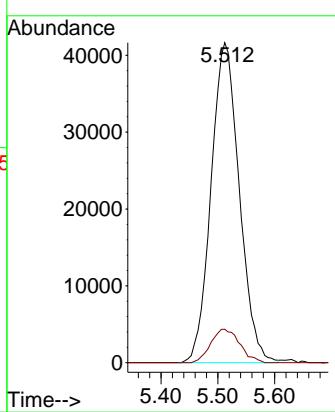
#11

Tert butyl alcohol
Concen: 233.586 ug/l
RT: 5.512 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30

Instrument : MSVOA_N
ClientSampleId : ICVVN041525

Manual Integrations APPROVED

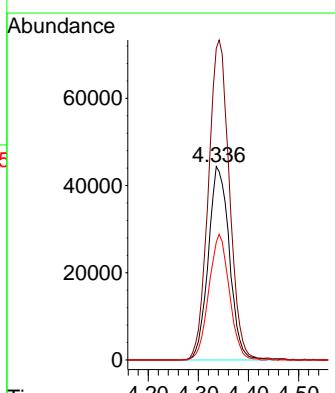
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

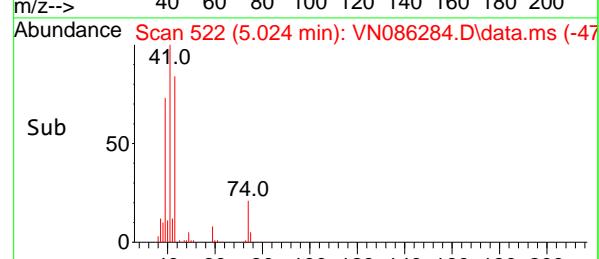
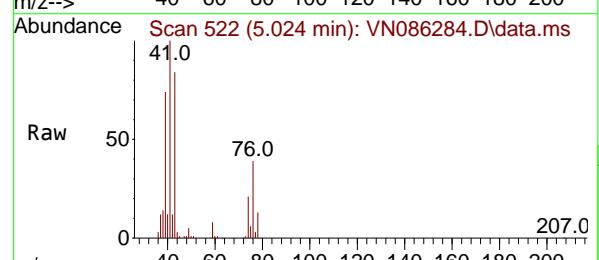
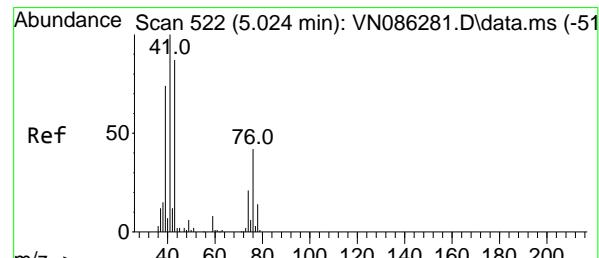
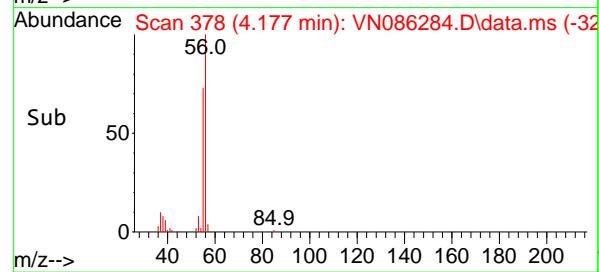
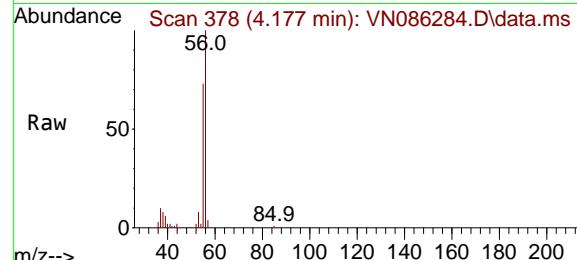
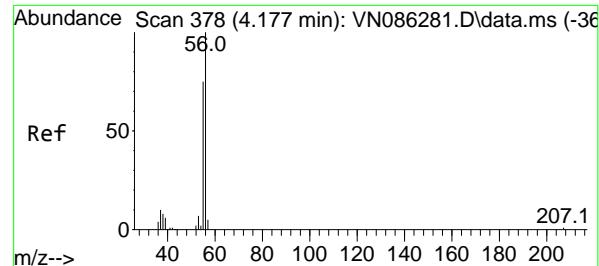


#12

1,1-Dichloroethene
Concen: 47.278 ug/l
RT: 4.336 min Scan# 405
Delta R.T. -0.006 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30

Tgt Ion: 96 Resp: 129546
Ion Ratio Lower Upper
96 100
61 161.2 126.6 189.8
98 60.9 49.6 74.4





#13

Acrolein

Concen: 251.743 ug/l

RT: 4.177 min Scan# 3

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

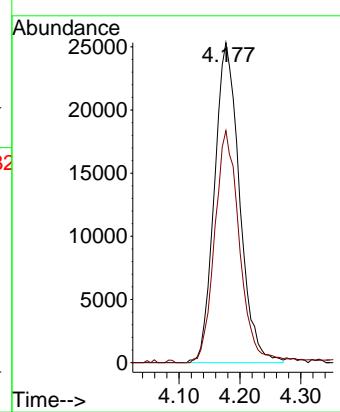
Instrument:

MSVOA_N

ClientSampleId :

ICVVN041525

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#14

Allyl chloride

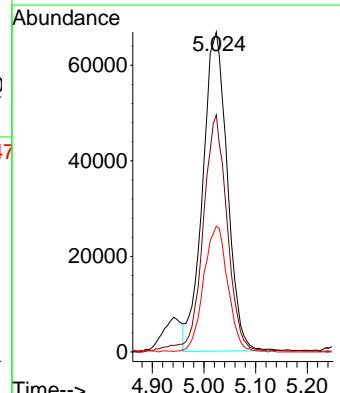
Concen: 45.280 ug/l

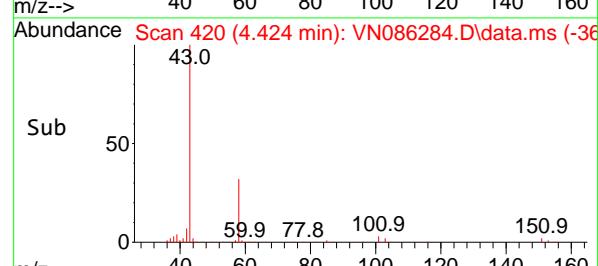
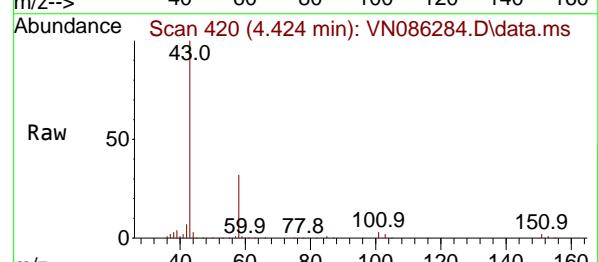
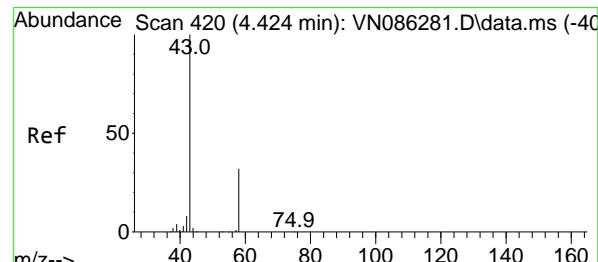
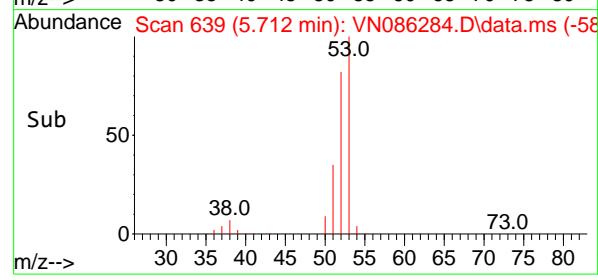
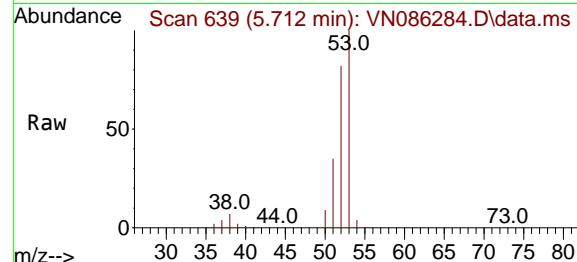
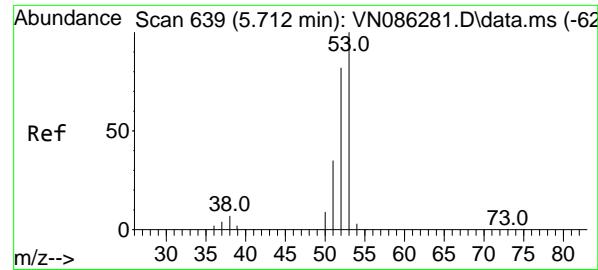
RT: 5.024 min Scan# 522

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

 Tgt Ion: 41 Resp: 220559
 Ion Ratio Lower Upper
 41 100
 39 73.3 59.2 88.8
 76 39.0 31.2 46.8




#15

Acrylonitrile

Concen: 244.312 ug/l

RT: 5.712 min Scan# 6

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

Instrument : MSVOA_N

ClientSampleId : ICVVN041525

Tgt Ion: 53 Resp: 372009

Ion Ratio Lower Upper

53 100

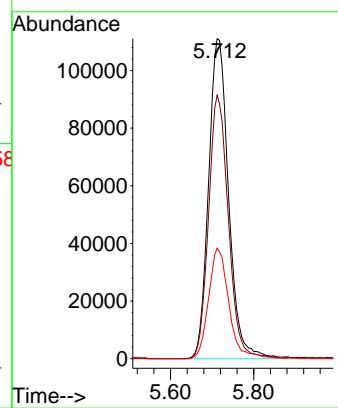
52 81.4 65.5 98.3

51 34.9 28.6 42.8

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#16

Acetone

Concen: 254.646 ug/l

RT: 4.424 min Scan# 420

Delta R.T. -0.000 min

Lab File: VN086284.D

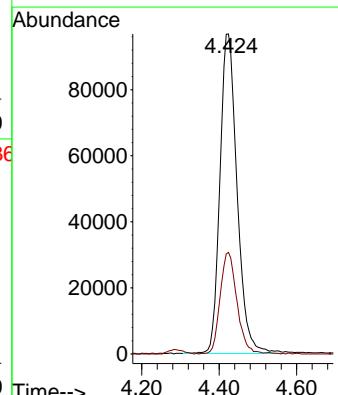
Acq: 15 Apr 2025 15:30

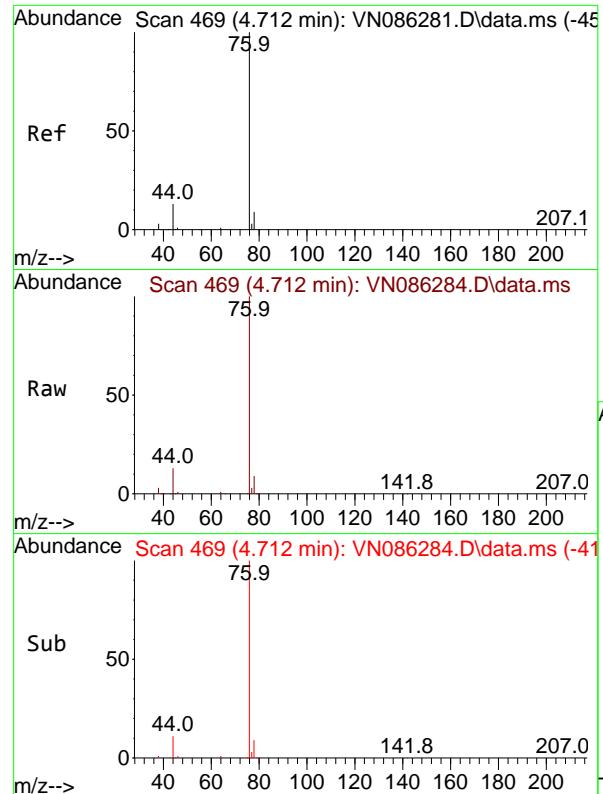
Tgt Ion: 43 Resp: 297097

Ion Ratio Lower Upper

43 100

58 31.6 25.3 37.9





#17

Carbon Disulfide

Concen: 43.983 ug/l

RT: 4.712 min Scan# 4

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

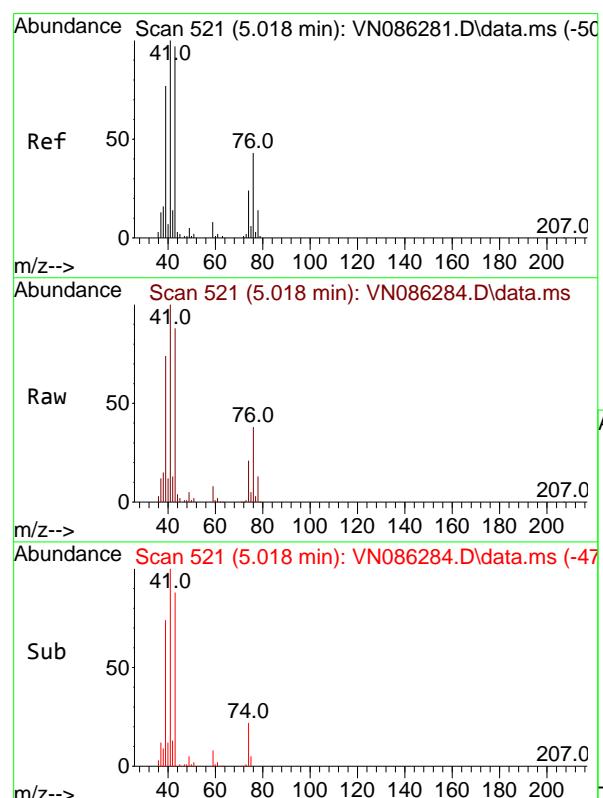
Instrument:

MSVOA_N

ClientSampleId :

ICVVN041525

Manual Integrations
APPROVED

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#18

Methyl Acetate

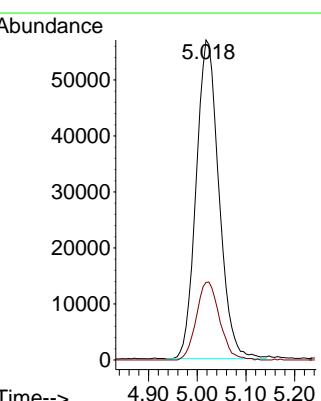
Concen: 45.586 ug/l

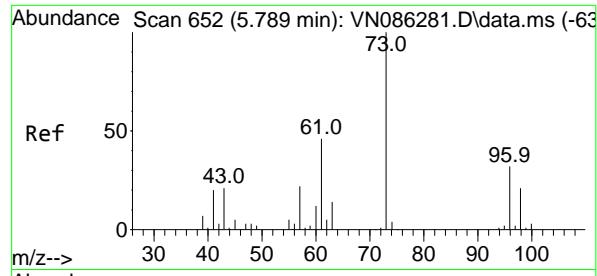
RT: 5.018 min Scan# 521

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

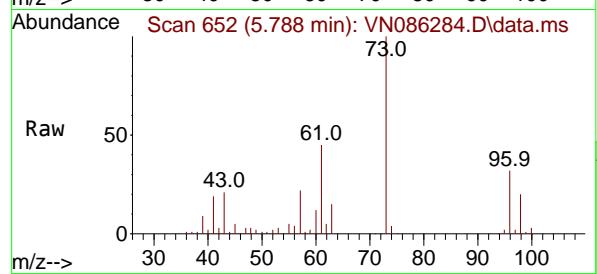
 Tgt Ion: 43 Resp: 184731
 Ion Ratio Lower Upper
 43 100
 74 25.0 19.8 29.6




#19

Methyl tert-butyl Ether
Concen: 47.117 ug/l
RT: 5.788 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30

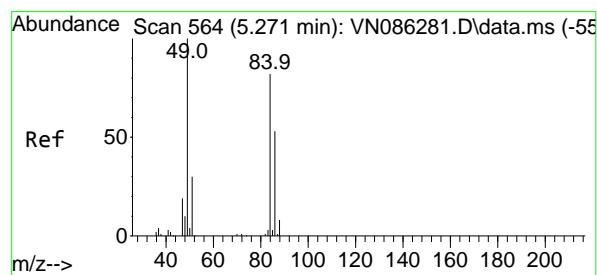
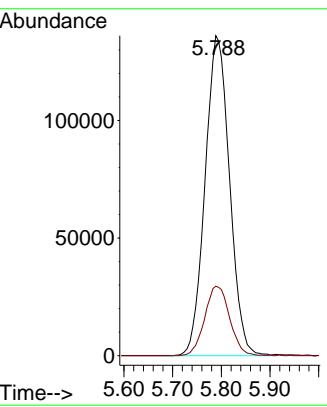
Instrument : MSVOA_N
ClientSampleId : ICVVN041525



Tgt Ion: 73 Resp: 474584
Ion Ratio Lower Upper
73 100
57 21.7 17.6 26.4

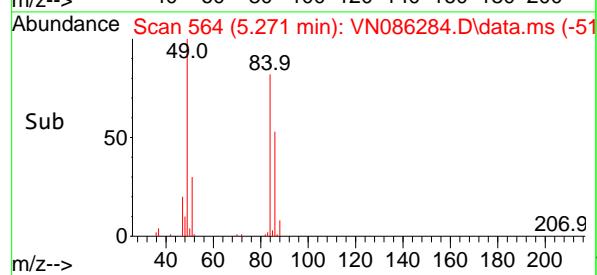
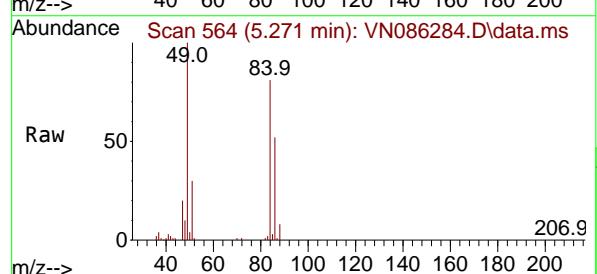
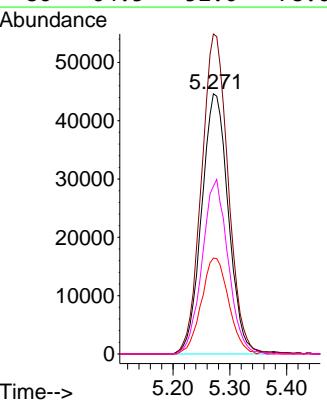
Manual Integrations APPROVED

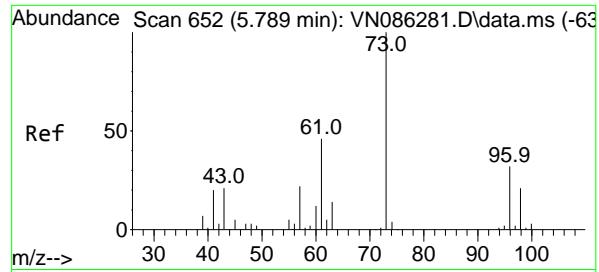
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#20
Methylene Chloride
Concen: 46.740 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30

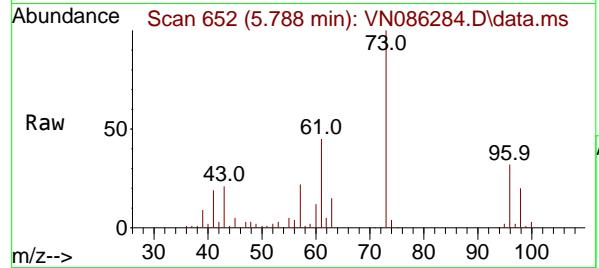
Tgt Ion: 84 Resp: 145872
Ion Ratio Lower Upper
84 100
49 123.0 98.2 147.2
51 36.9 29.8 44.6
86 64.5 52.0 78.0





#21
trans-1,2-Dichloroethene
Concen: 46.960 ug/l
RT: 5.788 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30

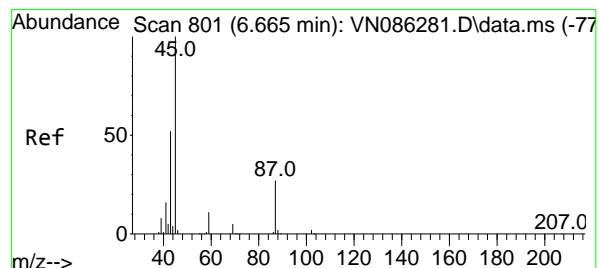
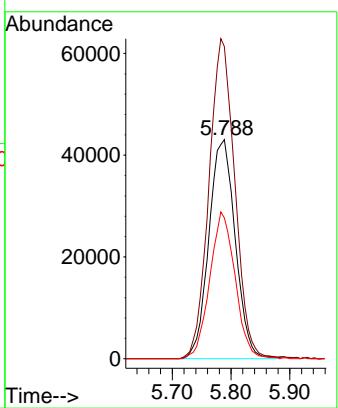
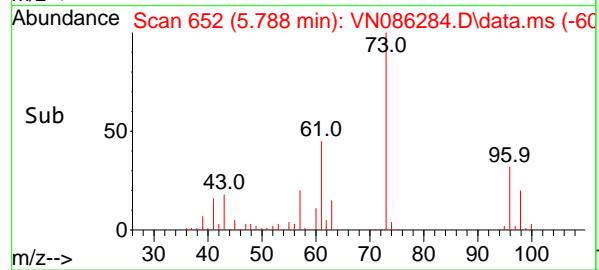
Instrument : MSVOA_N
ClientSampleId : ICVVN041525



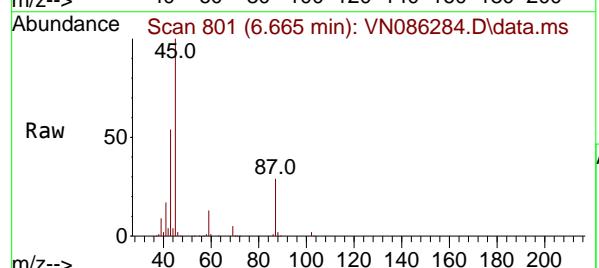
Tgt Ion: 96 Resp: 134520
Ion Ratio Lower Upper
96 100
61 142.5 114.6 171.8
98 64.3 51.2 76.8

Manual Integrations APPROVED

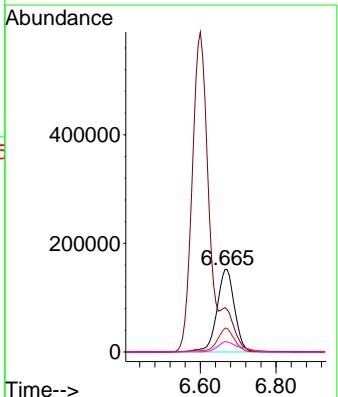
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

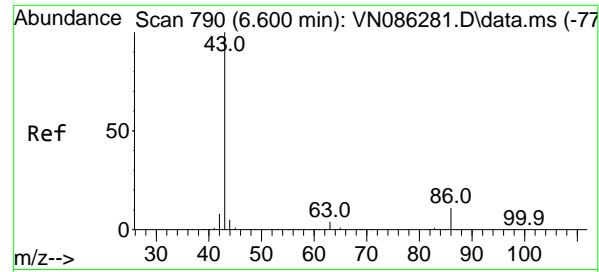


#22
Diisopropyl ether
Concen: 46.426 ug/l
RT: 6.665 min Scan# 801
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30

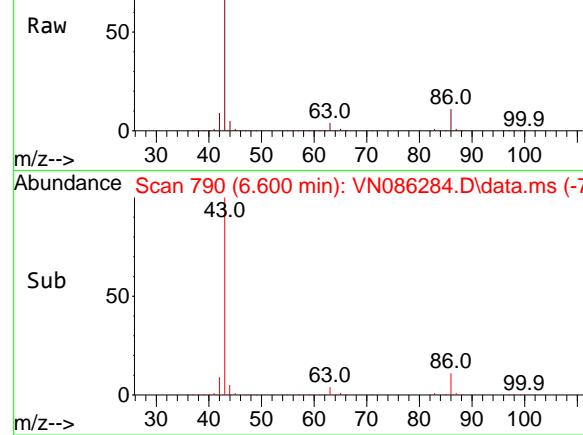


Tgt Ion: 45 Resp: 491946
Ion Ratio Lower Upper
45 100
43 53.2 41.8 62.8
87 28.9 21.6 32.4
59 12.7 9.0 13.4

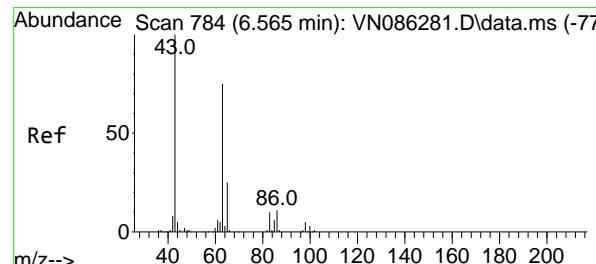
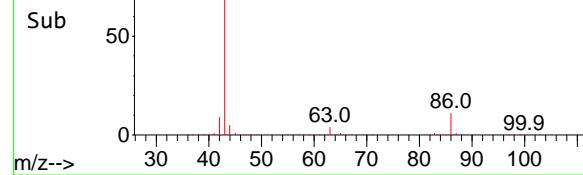




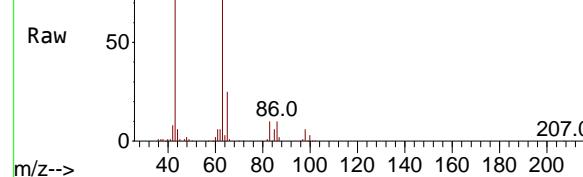
Abundance Scan 790 (6.600 min): VN086284.D\data.ms



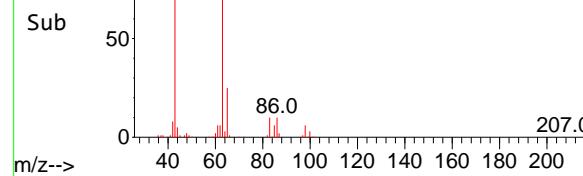
Abundance Scan 790 (6.600 min): VN086284.D\data.ms (-73)



Abundance Scan 784 (6.565 min): VN086284.D\data.ms



Abundance Scan 784 (6.565 min): VN086284.D\data.ms (-73)



#23

Vinyl Acetate

Concen: 234.680 ug/l

RT: 6.600 min Scan# 7

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

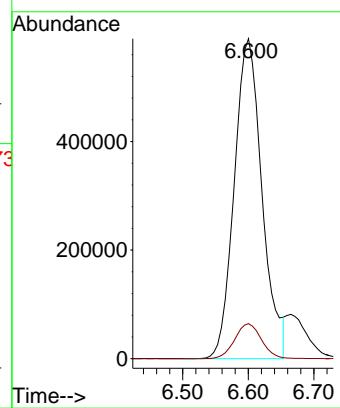
Instrument:

MSVOA_N

ClientSampleId :

ICVVN041525

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#24

1,1-Dichloroethane

Concen: 47.277 ug/l

RT: 6.565 min Scan# 784

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

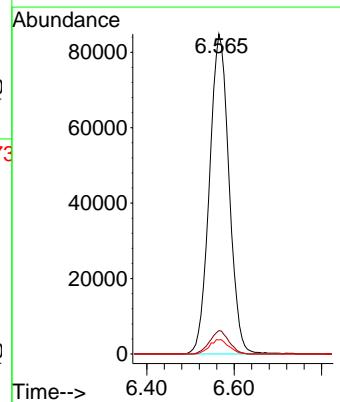
Tgt Ion: 63 Resp: 264324

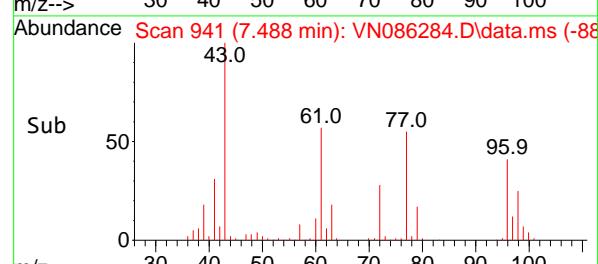
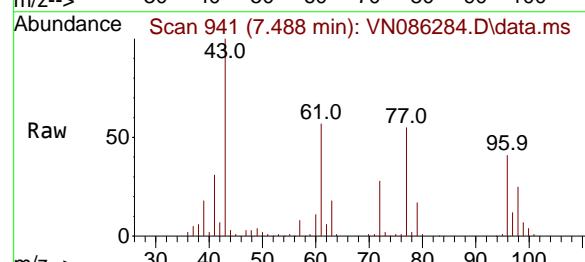
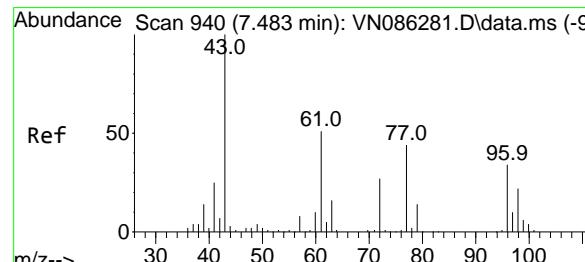
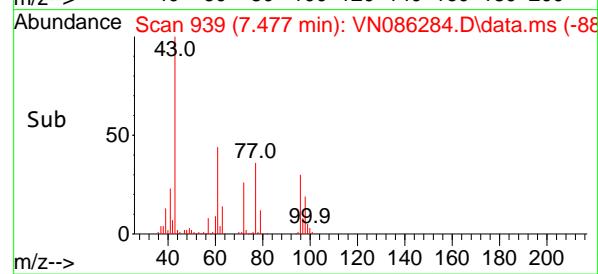
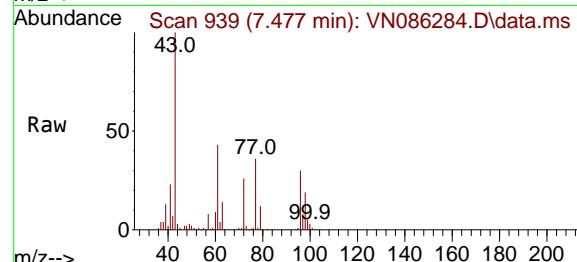
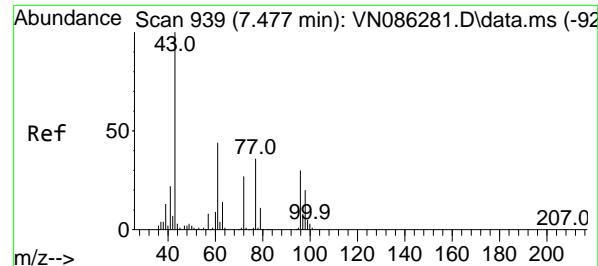
Ion Ratio Lower Upper

63 100

98 7.3 3.4 10.2

100 4.4 2.1 6.5





#25

2-Butanone

Concen: 238.732 ug/l

RT: 7.477 min Scan# 9

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041525

Tgt Ion: 43 Resp: 50165:

Ion Ratio Lower Upper

43 100

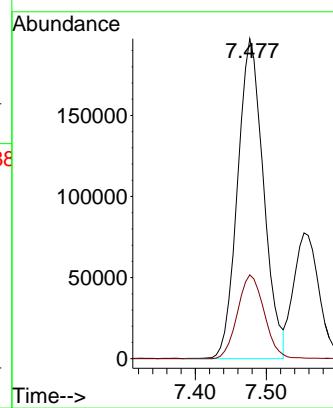
72 26.2 21.7 32.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#26

2,2-Dichloropropane

Concen: 46.721 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN086284.D

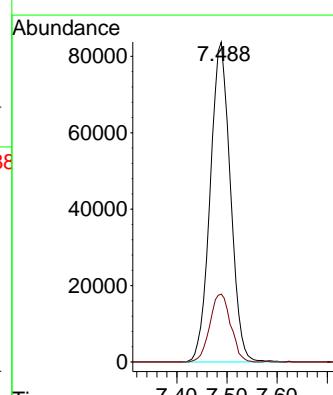
Acq: 15 Apr 2025 15:30

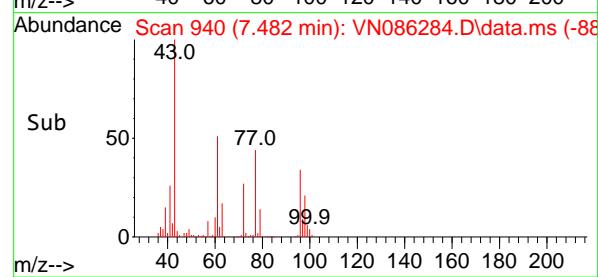
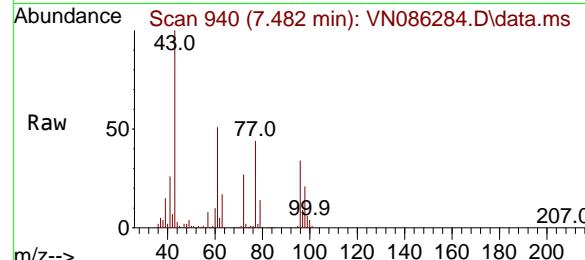
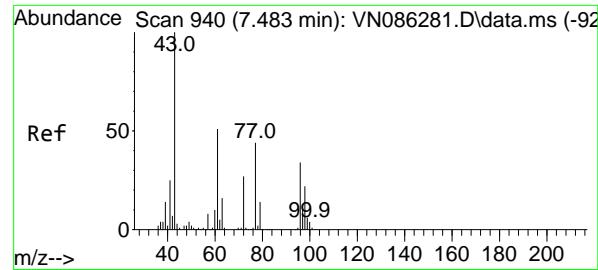
Tgt Ion: 77 Resp: 233882

Ion Ratio Lower Upper

77 100

97 22.0 11.2 33.5





#27

cis-1,2-Dichloroethene

Concen: 47.105 ug/l

RT: 7.482 min Scan# 9

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

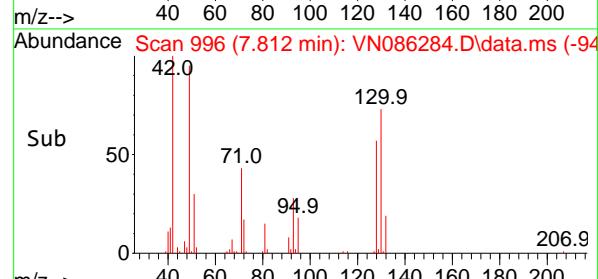
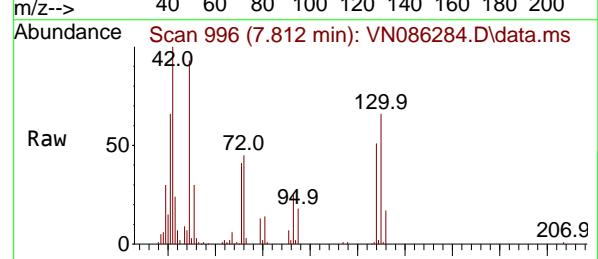
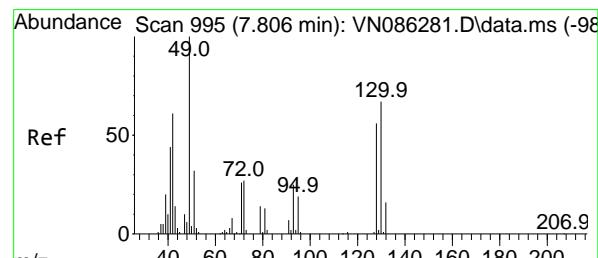
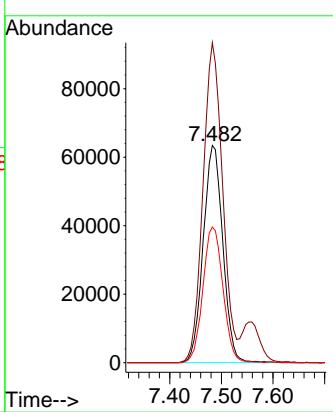
Instrument :

MSVOA_N

ClientSampleId :

ICVVN041525

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#28

Bromochloromethane

Concen: 48.044 ug/l

RT: 7.812 min Scan# 996

Delta R.T. 0.006 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

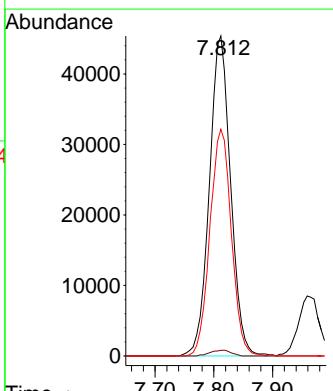
Tgt Ion: 49 Resp: 113893

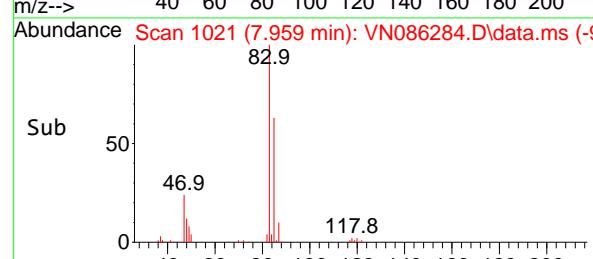
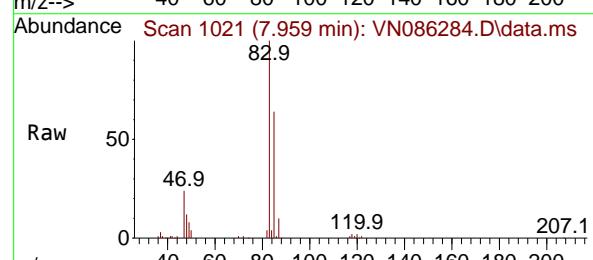
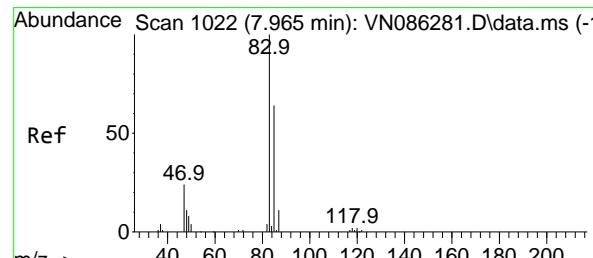
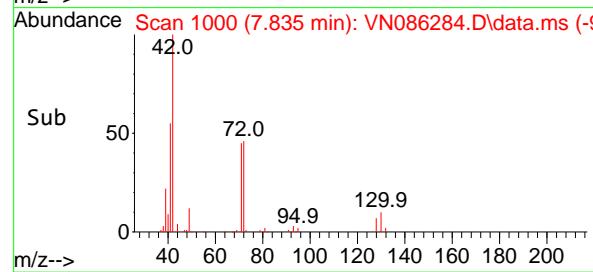
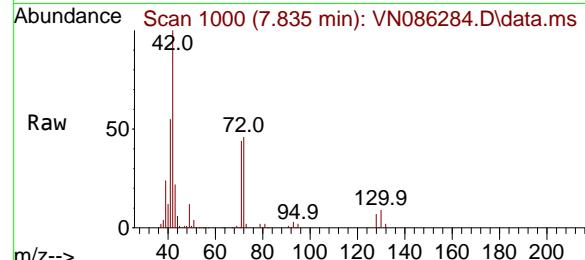
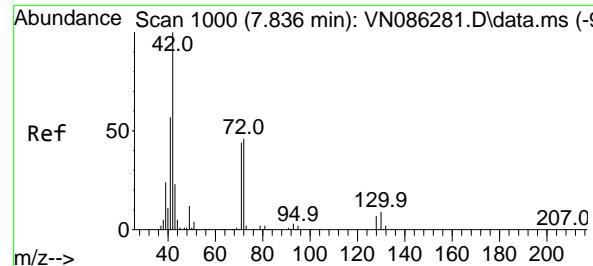
Ion Ratio Lower Upper

49 100

129 1.8 0.0 3.4

130 71.3 57.1 85.7





#29

Tetrahydrofuran

Concen: 232.296 ug/l

RT: 7.835 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041525

Tgt Ion: 42 Resp: 32641

Ion Ratio Lower Upper

42 100

72 45.5 36.2 54.4

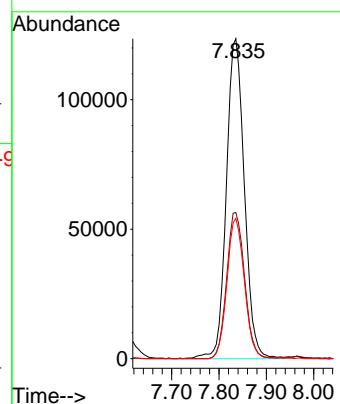
71 42.7 34.0 51.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#30

Chloroform

Concen: 47.047 ug/l

RT: 7.959 min Scan# 1021

Delta R.T. -0.006 min

Lab File: VN086284.D

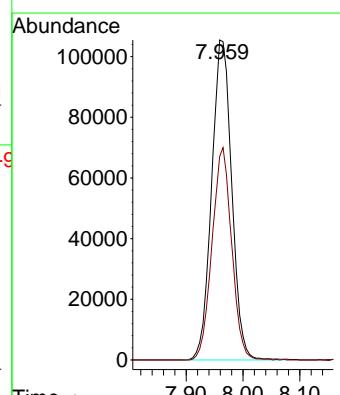
Acq: 15 Apr 2025 15:30

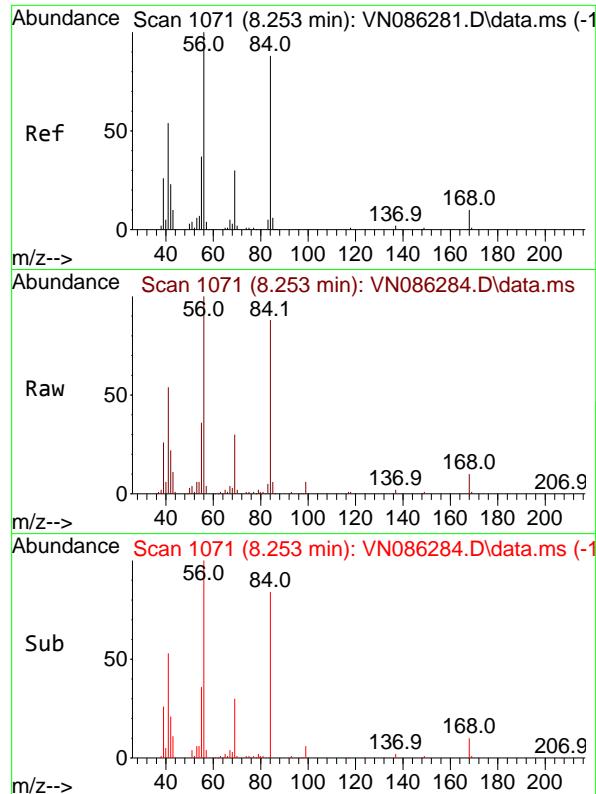
Tgt Ion: 83 Resp: 258393

Ion Ratio Lower Upper

83 100

85 63.6 51.5 77.3





#31

Cyclohexane

Concen: 45.162 ug/l

RT: 8.253 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

Instrument :

MSVOA_N

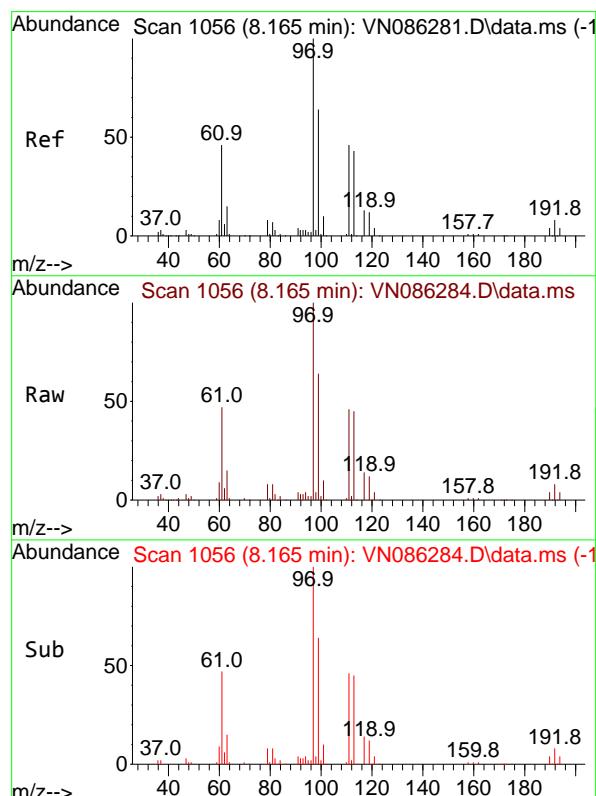
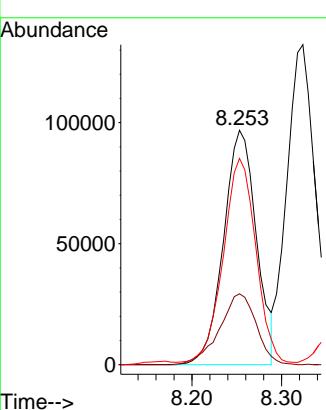
ClientSampleId :

ICVVN041525

**Manual Integrations
APPROVED**

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#32

1,1,1-Trichloroethane

Concen: 47.385 ug/l

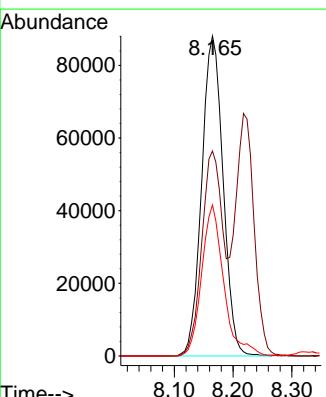
RT: 8.165 min Scan# 1056

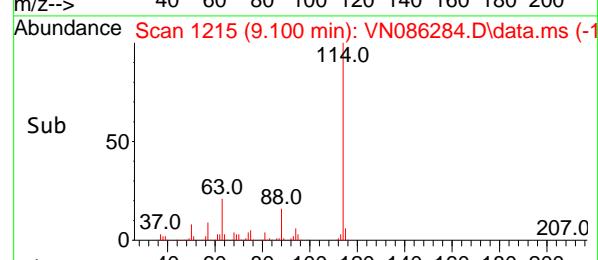
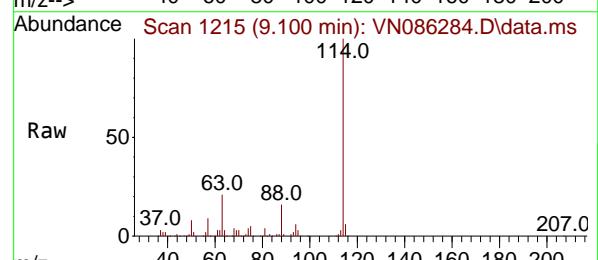
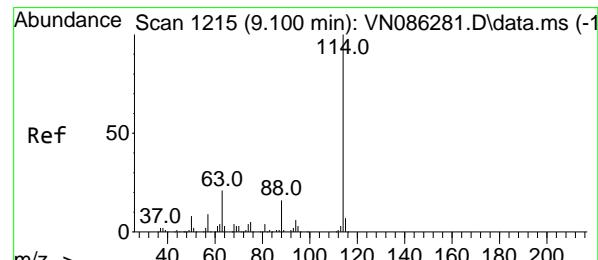
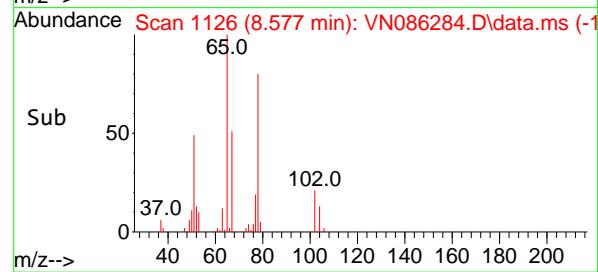
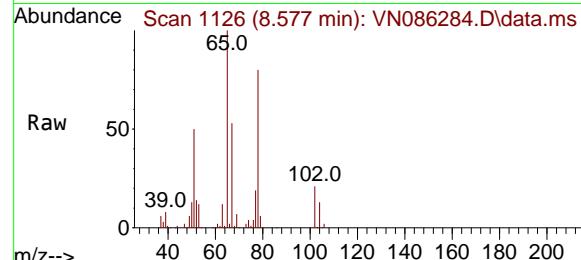
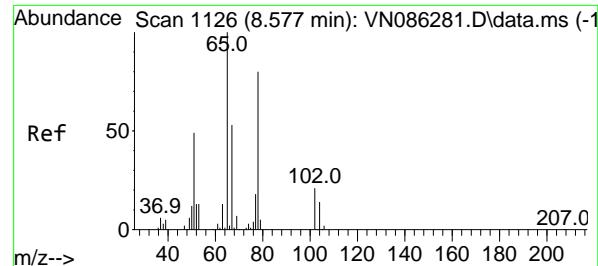
Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

| Tgt | Ion: | Resp: | 222630 |
|-----|-------|-------|--------|
| Ion | Ratio | Lower | Upper |
| 97 | 100 | | |
| 99 | 61.6 | 52.7 | 79.1 |
| 61 | 48.8 | 39.5 | 59.3 |





#33

1,2-Dichloroethane-d4

Concen: 50.114 ug/l

RT: 8.577 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

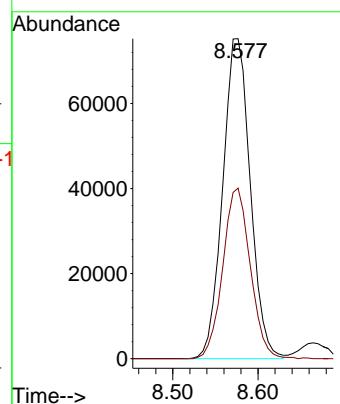
Instrument :

MSVOA_N

ClientSampleId :

ICVVN041525

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

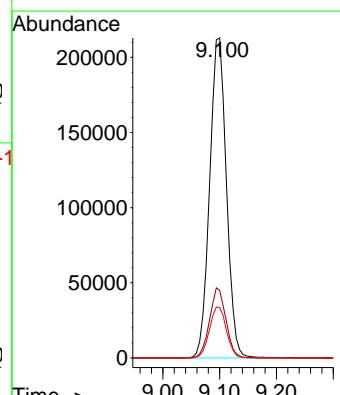
Tgt Ion:114 Resp: 435528

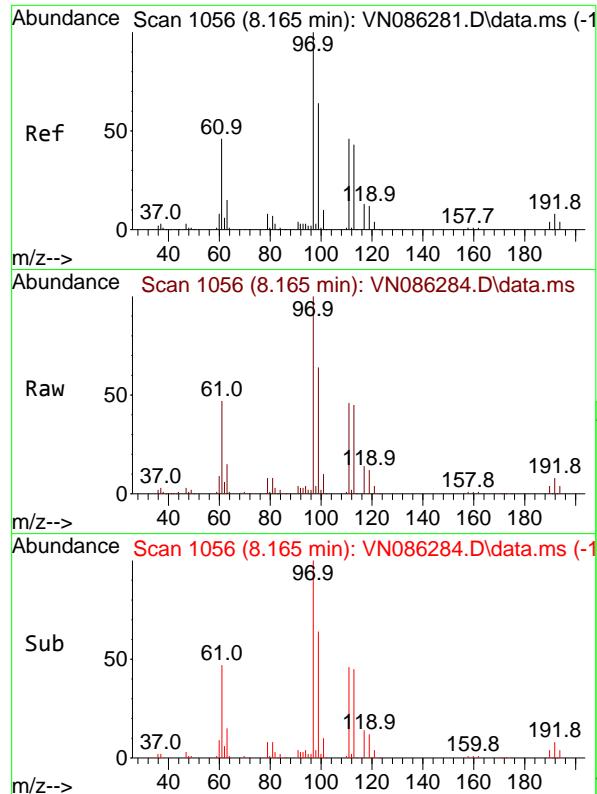
Ion Ratio Lower Upper

114 100

63 21.2 0.0 42.6

88 15.7 0.0 31.8





#35

Dibromofluoromethane

Concen: 47.865 ug/l

RT: 8.165 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

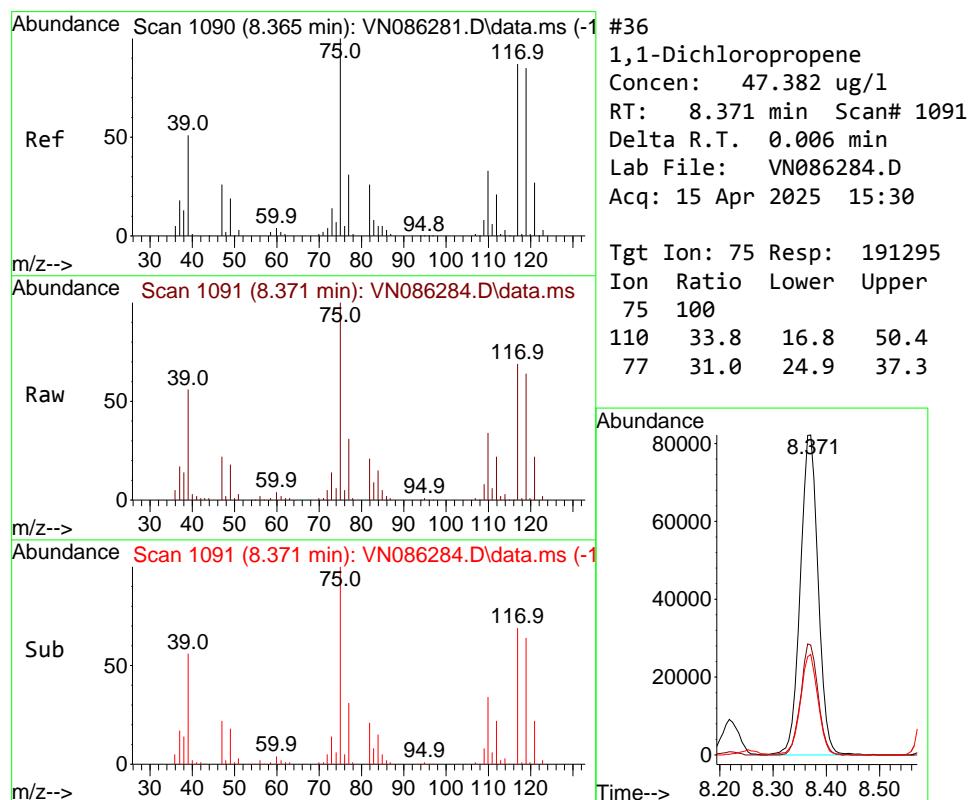
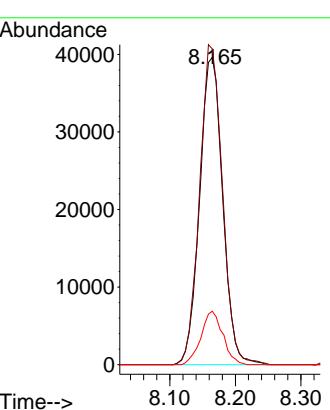
Instrument :

MSVOA_N

ClientSampleId :

ICVVN041525

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#36

1,1-Dichloropropene

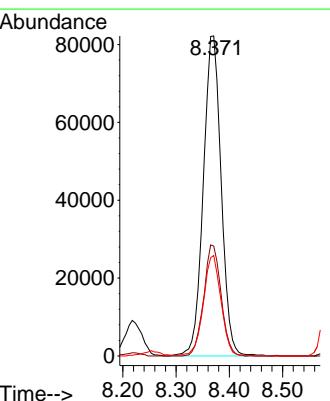
Concen: 47.382 ug/l

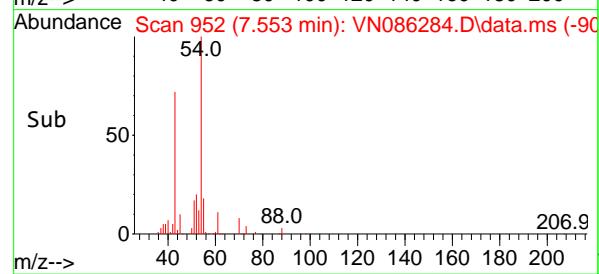
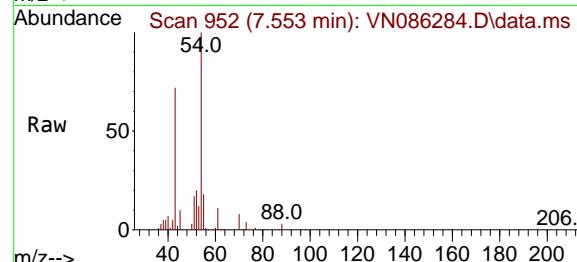
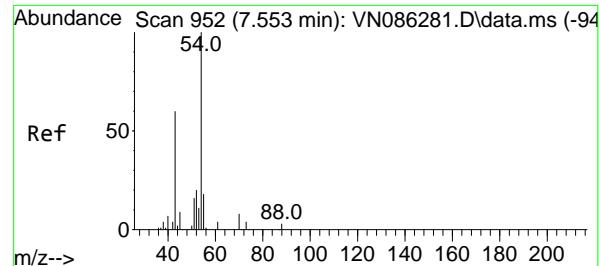
RT: 8.371 min Scan# 1091

Delta R.T. 0.006 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

 Tgt Ion: 75 Resp: 191295
 Ion Ratio Lower Upper
 75 100
 110 33.8 16.8 50.4
 77 31.0 24.9 37.3




#37

Ethyl Acetate

Concen: 45.984 ug/l

RT: 7.553 min Scan# 9

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

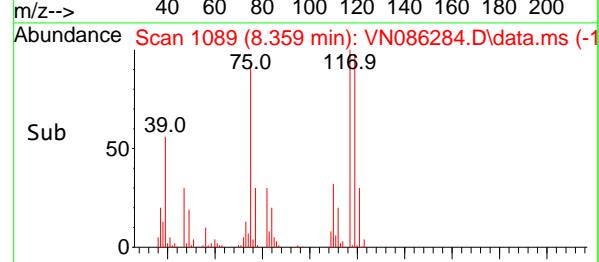
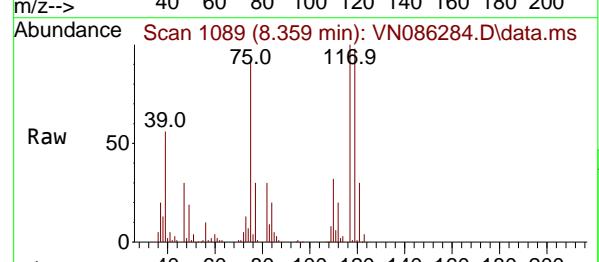
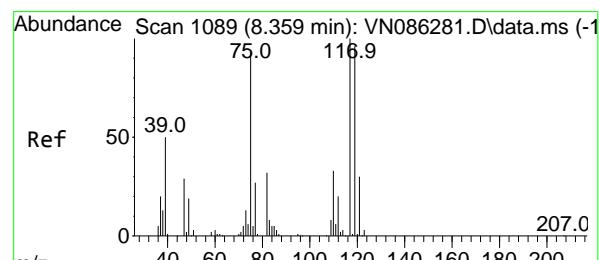
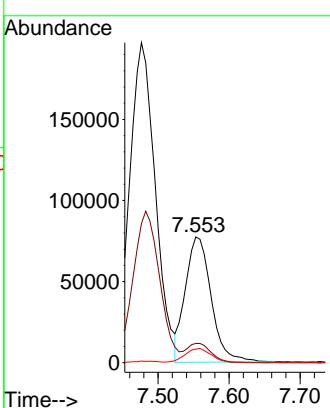
Instrument:

MSVOA_N

ClientSampleId :

ICVVN041525

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#38

Carbon Tetrachloride

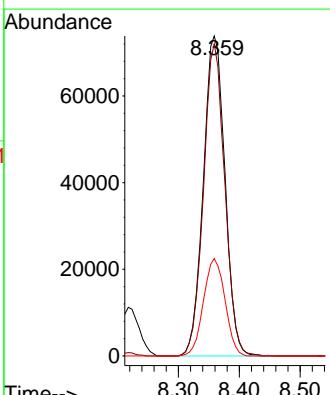
Concen: 47.475 ug/l

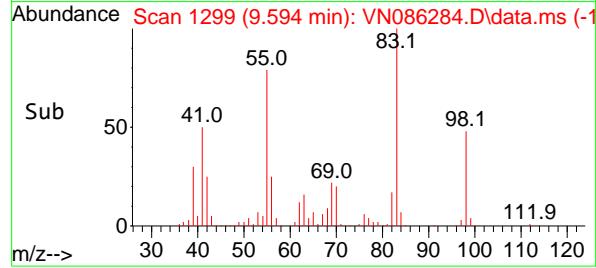
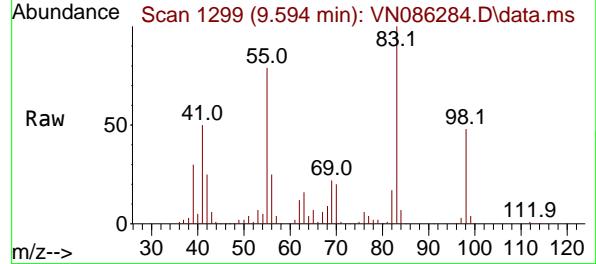
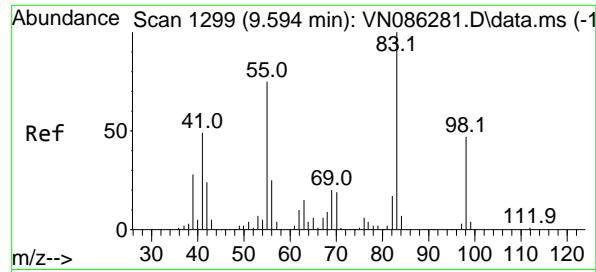
RT: 8.359 min Scan# 1089

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

 Tgt Ion:117 Resp: 182531
 Ion Ratio Lower Upper
 117 100
 119 97.6 76.8 115.2
 121 30.5 23.8 35.8




#39

Methylcyclohexane

Concen: 45.902 ug/l

RT: 9.594 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

Instrument:

MSVOA_N

ClientSampleId :

ICVVN041525

Tgt Ion: 83 Resp: 220271

Ion Ratio Lower Upper

83 100

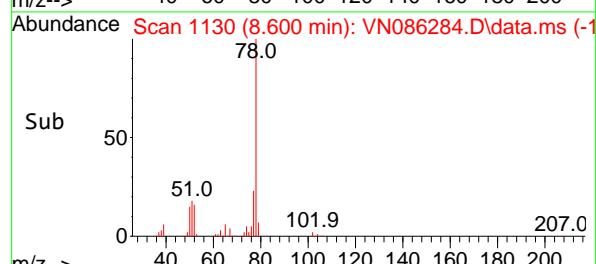
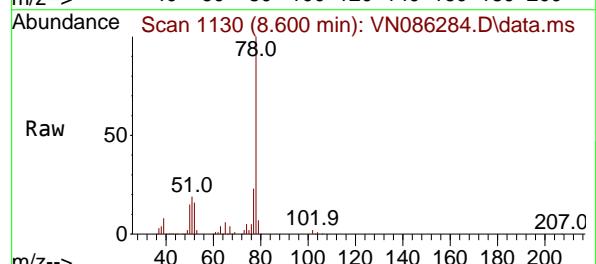
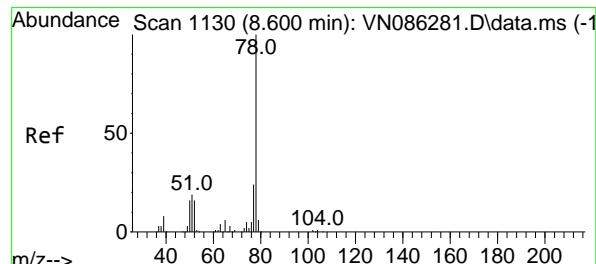
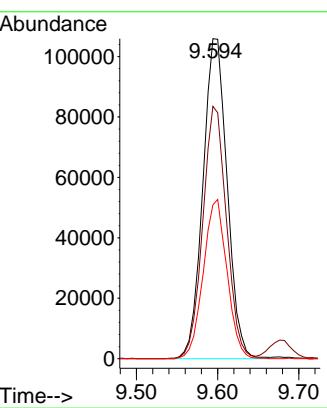
55 78.7 59.8 89.8

98 48.1 37.9 56.9

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#40

Benzene

Concen: 47.168 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN086284.D

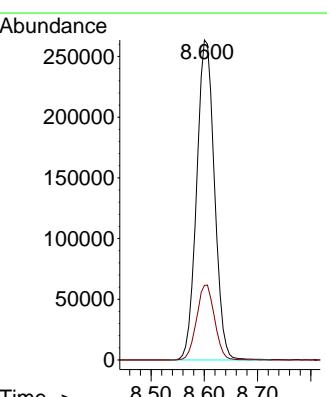
Acq: 15 Apr 2025 15:30

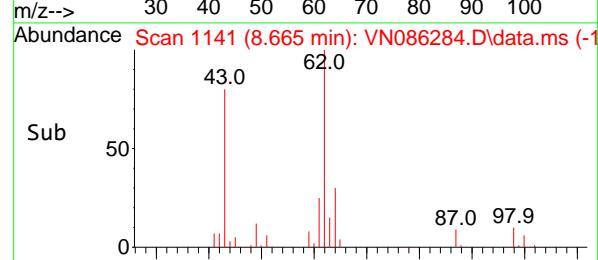
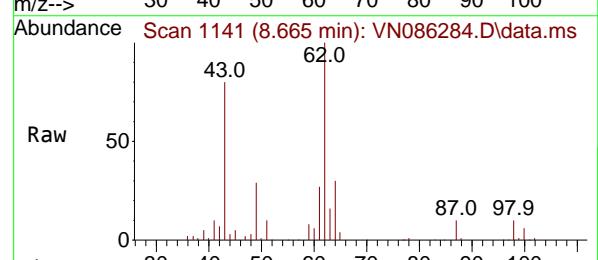
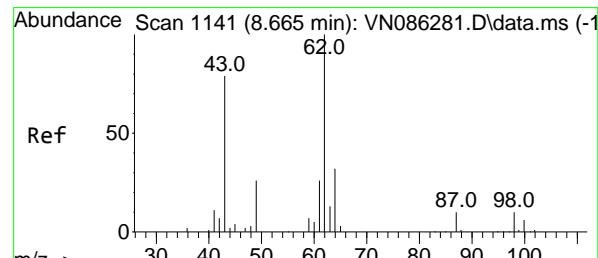
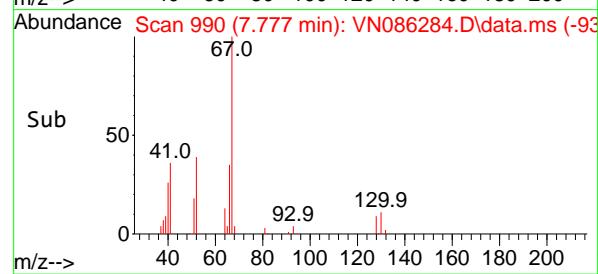
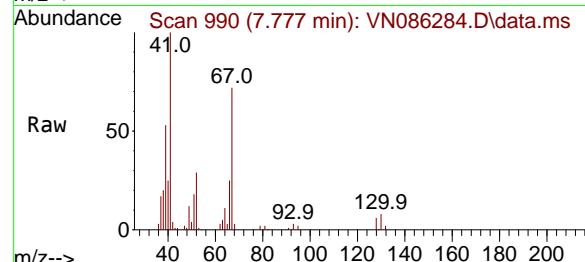
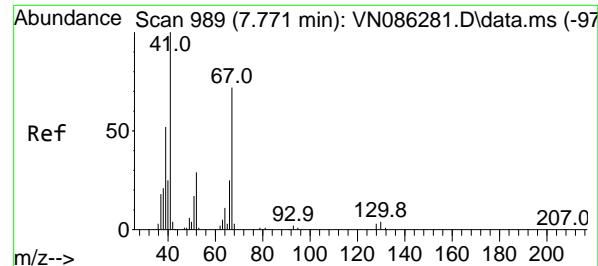
Tgt Ion: 78 Resp: 610128

Ion Ratio Lower Upper

78 100

77 23.3 19.4 29.2





#41

Methacrylonitrile

Concen: 45.892 ug/l

RT: 7.777 min Scan# 990

Delta R.T. 0.006 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

Instrument :

MSVOA_N

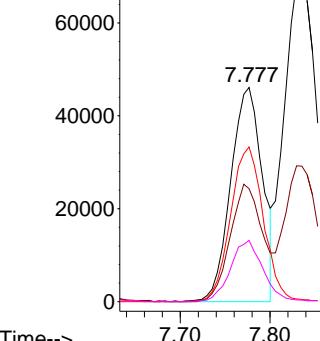
ClientSampleId :

ICVVN041525

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025

Abundance



#42

1,2-Dichloroethane

Concen: 47.496 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

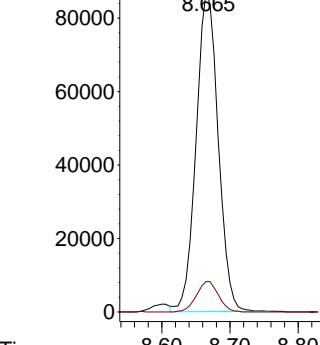
Tgt Ion: 62 Resp: 195922

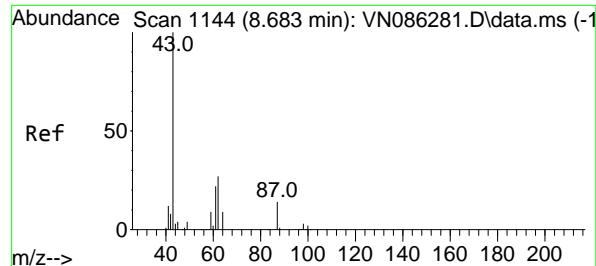
Ion Ratio Lower Upper

62 100

98 9.5 0.0 19.2

Abundance





#43

Isopropyl Acetate

Concen: 48.649 ug/l

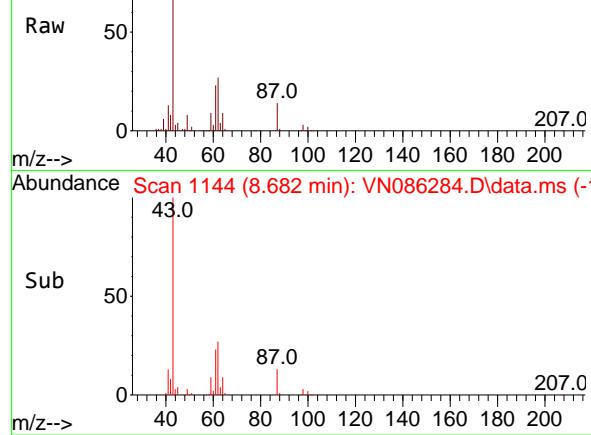
RT: 8.682 min Scan# 1

Delta R.T. -0.001 min

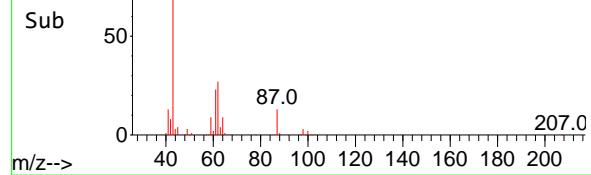
Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

Abundance Scan 1144 (8.682 min): VN086284.D\data.ms



Abundance Scan 1144 (8.682 min): VN086284.D\data.ms (-1)



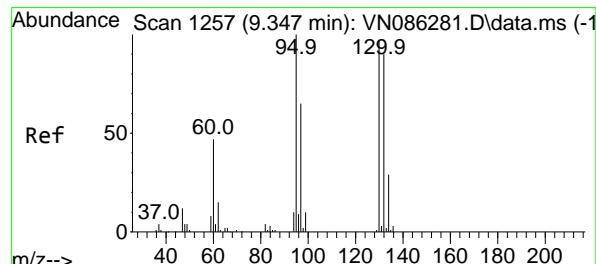
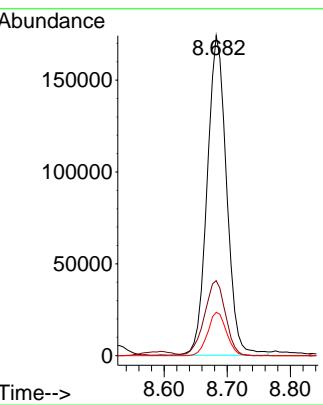
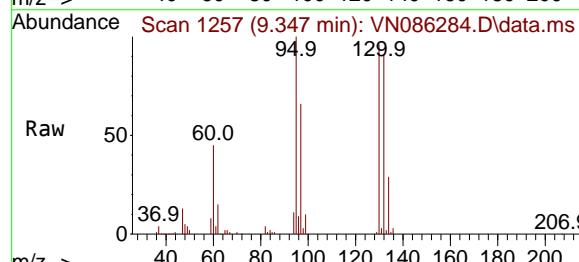
Tgt Ion: 43 Resp: 370579

Ion Ratio Lower Upper

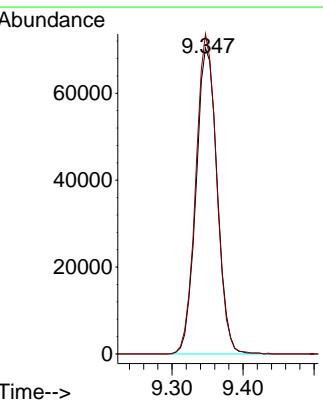
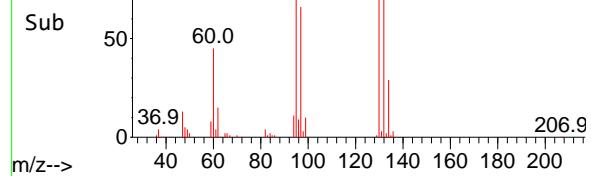
43 100

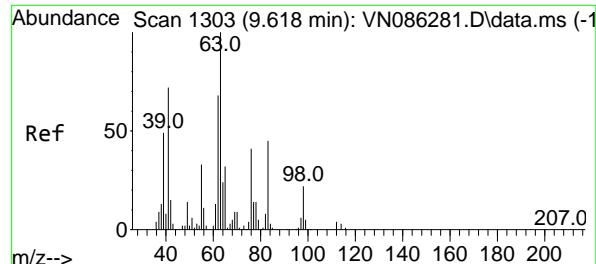
61 25.6 20.5 30.7

87 13.2 10.5 15.7

**Manual Integrations
APPROVED**
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025#44
Trichloroethene
Concen: 47.403 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30Tgt Ion:130 Resp: 145334
Ion Ratio Lower Upper
130 100
95 104.6 0.0 207.2

Abundance Scan 1257 (9.347 min): VN086284.D\data.ms (-1)





#45

1,2-Dichloropropane

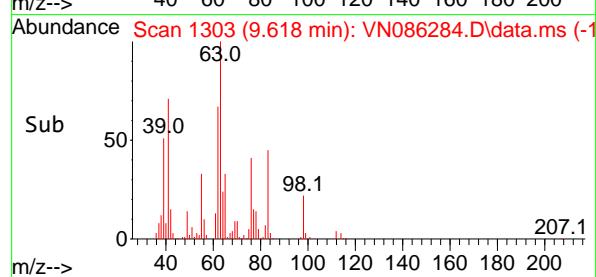
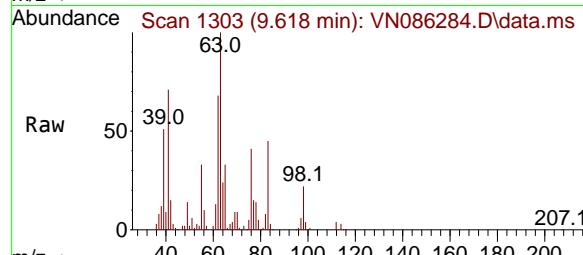
Concen: 47.302 ug/l

RT: 9.618 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30



Tgt Ion: 63 Resp: 14977

Ion Ratio Lower Upper

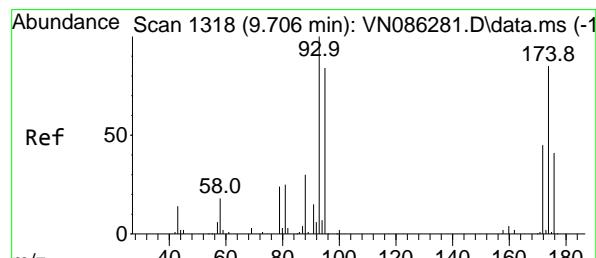
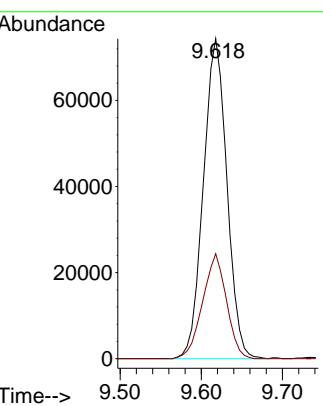
63 100

65 32.8 25.4 38.2

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#46

Dibromomethane

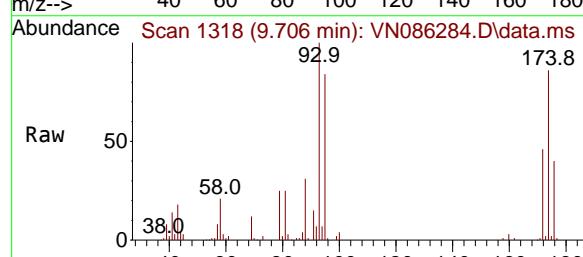
Concen: 48.772 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30



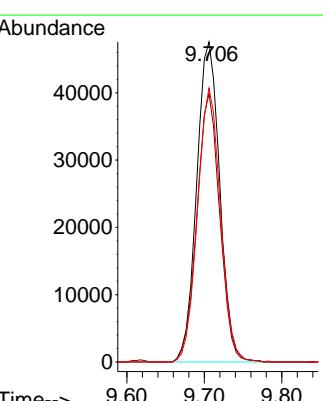
Tgt Ion: 93 Resp: 98395

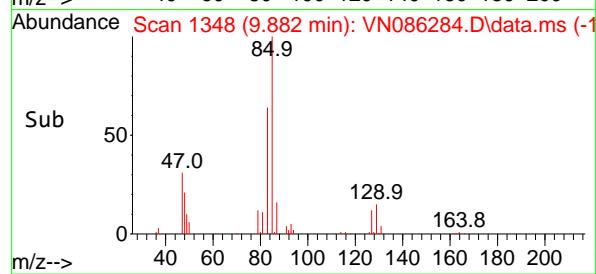
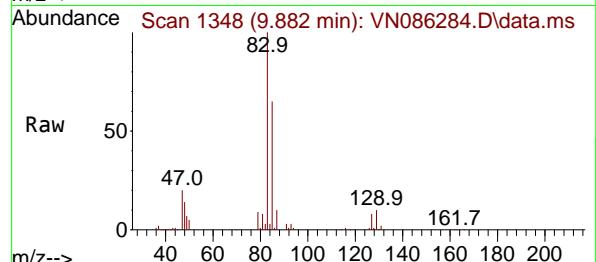
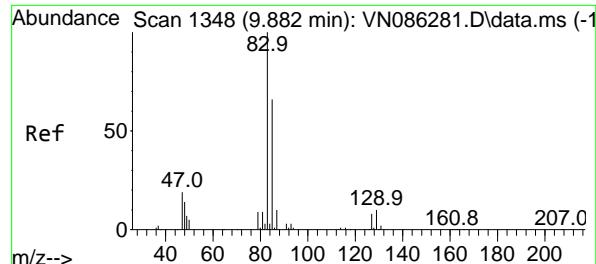
Ion Ratio Lower Upper

93 100

95 82.9 66.2 99.4

174 85.1 67.8 101.6





#47

Bromodichloromethane

Concen: 47.682 ug/l

RT: 9.882 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

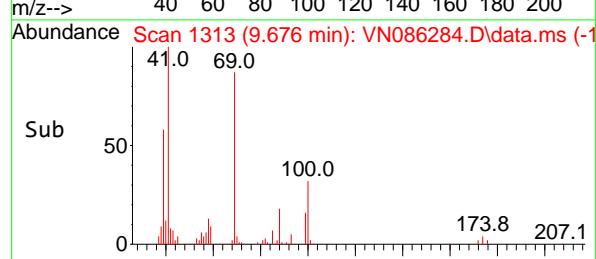
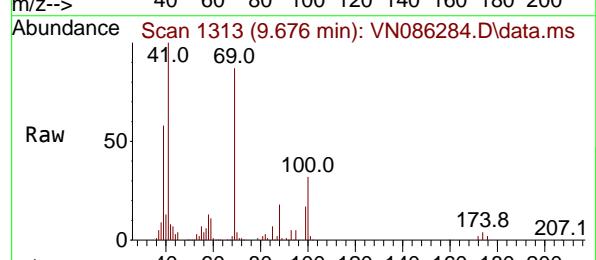
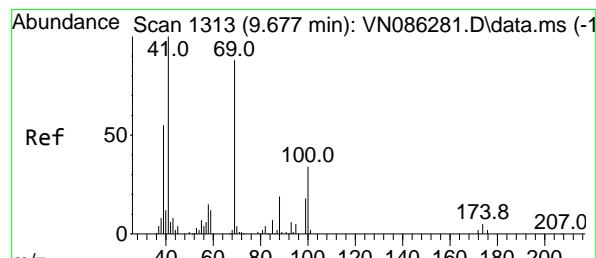
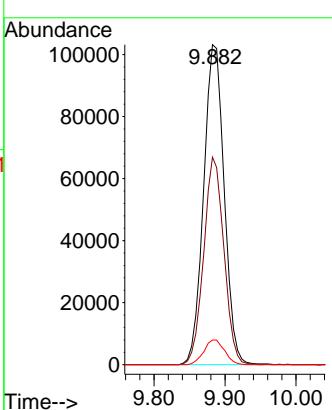
Instrument:

MSVOA_N

ClientSampleId :

ICVVN041525

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#48

Methyl methacrylate

Concen: 45.546 ug/l

RT: 9.676 min Scan# 1313

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

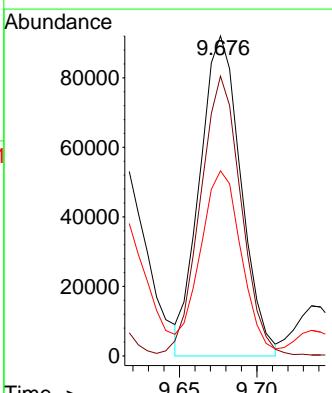
Tgt Ion: 41 Resp: 170007

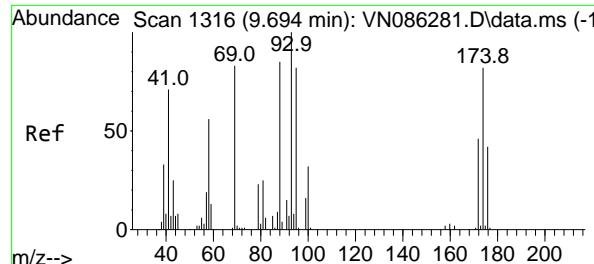
Ion Ratio Lower Upper

41 100

69 87.5 68.2 102.2

39 58.2 45.2 67.8





#49

1,4-Dioxane

Concen: 929.893 ug/l

RT: 9.688 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN086284.D

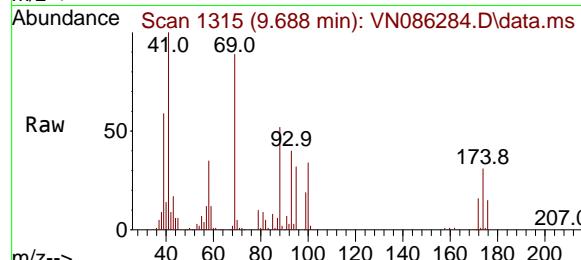
Acq: 15 Apr 2025 15:30

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041525



Tgt Ion: 88 Resp: 59040

Ion Ratio Lower Upper

88 100

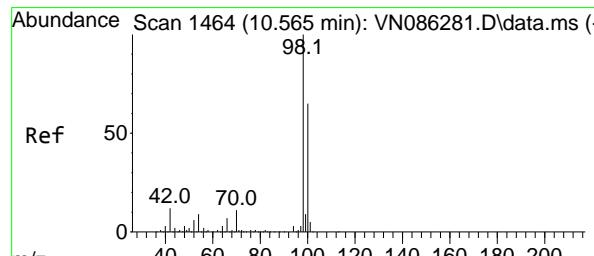
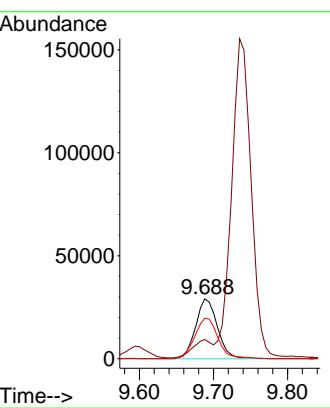
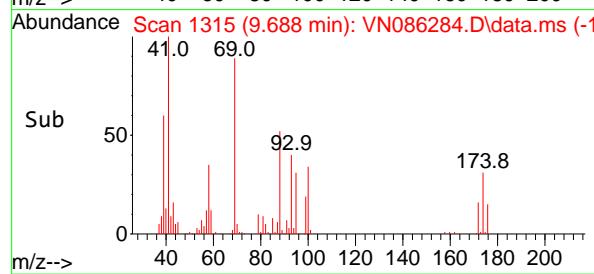
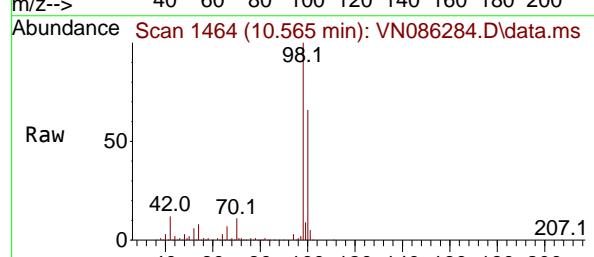
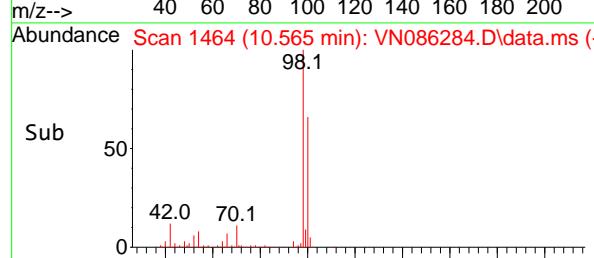
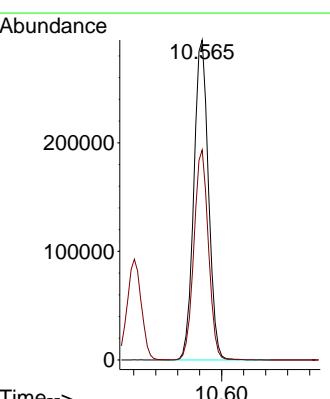
43 27.8 23.8 35.8

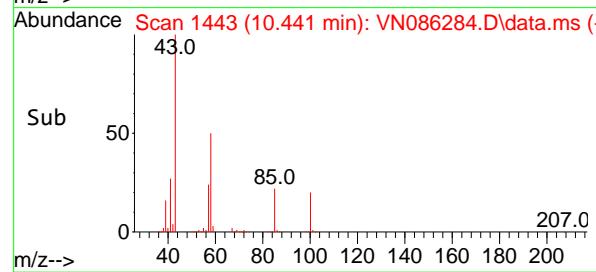
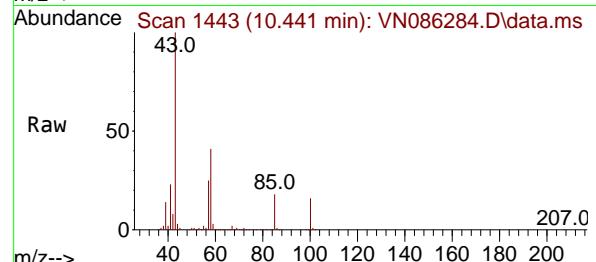
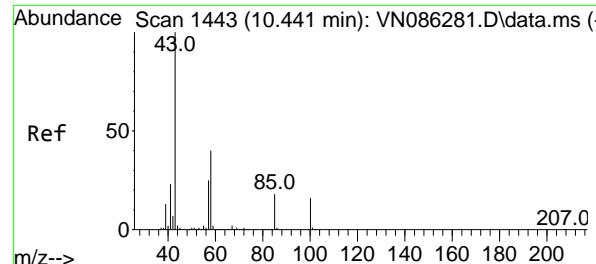
58 72.2 57.4 86.2

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025

#50
Toluene-d8
Concen: 50.251 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30Tgt Ion: 98 Resp: 542858
Ion Ratio Lower Upper
98 100
100 65.3 52.5 78.7



#51

4-Methyl-2-Pentanone

Concen: 238.220 ug/l

RT: 10.441 min Scan# 1443

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

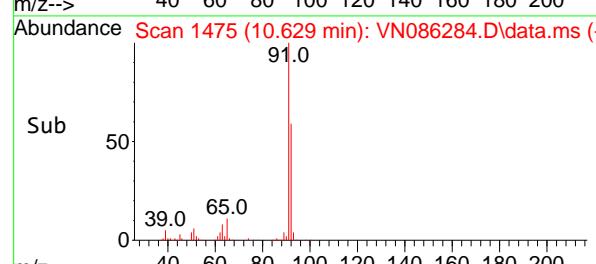
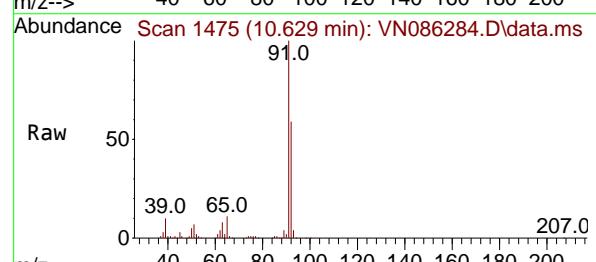
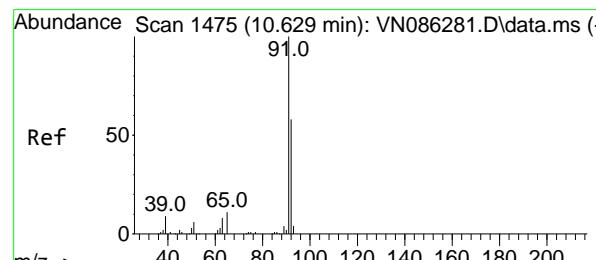
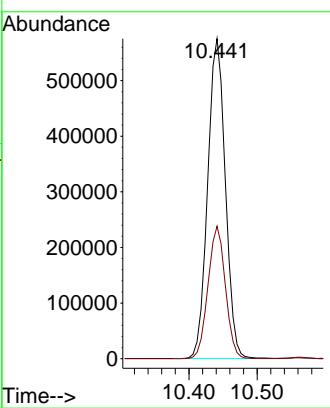
Instrument :

MSVOA_N

ClientSampleId :

ICVVN041525

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#52

Toluene

Concen: 47.453 ug/l

RT: 10.629 min Scan# 1475

Delta R.T. -0.000 min

Lab File: VN086284.D

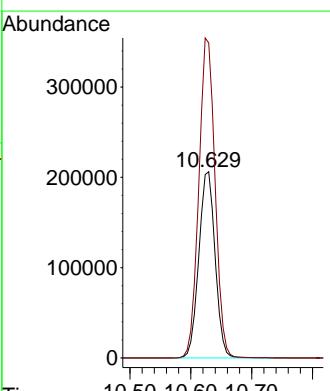
Acq: 15 Apr 2025 15:30

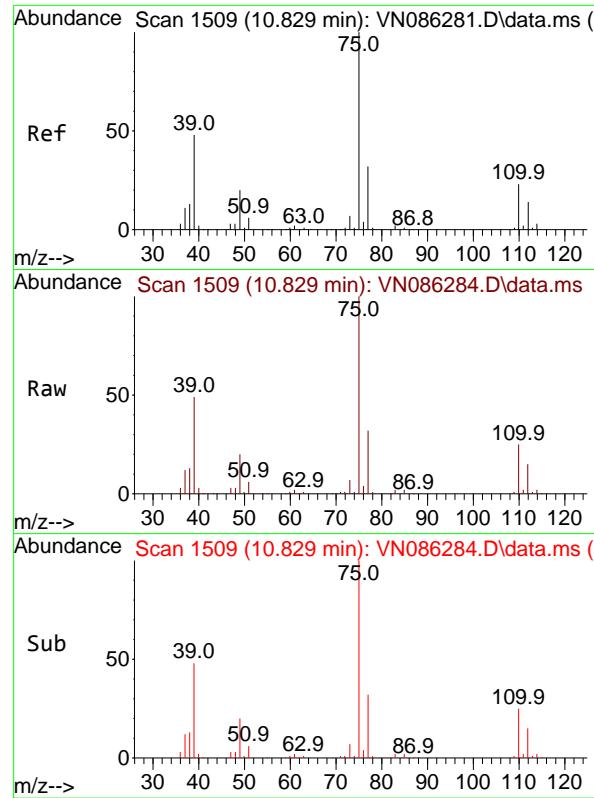
Tgt Ion: 92 Resp: 383010

Ion Ratio Lower Upper

92 100

91 171.3 137.3 205.9



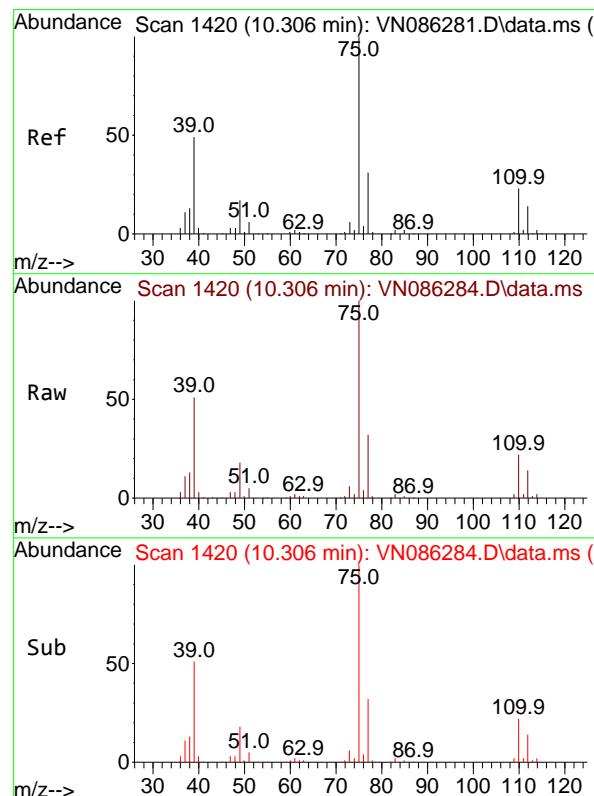
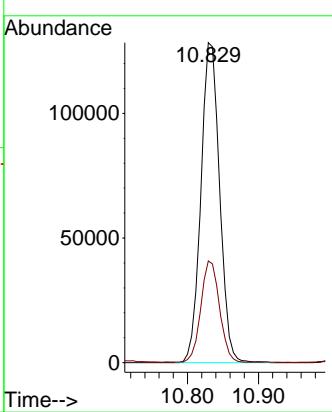


#53
t-1,3-Dichloropropene
Concen: 48.360 ug/l
RT: 10.829 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30

Instrument : MSVOA_N
ClientSampleId : ICVVN041525

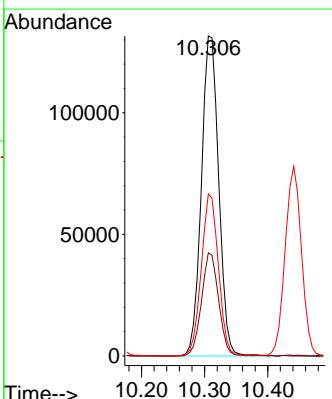
Manual Integrations
APPROVED

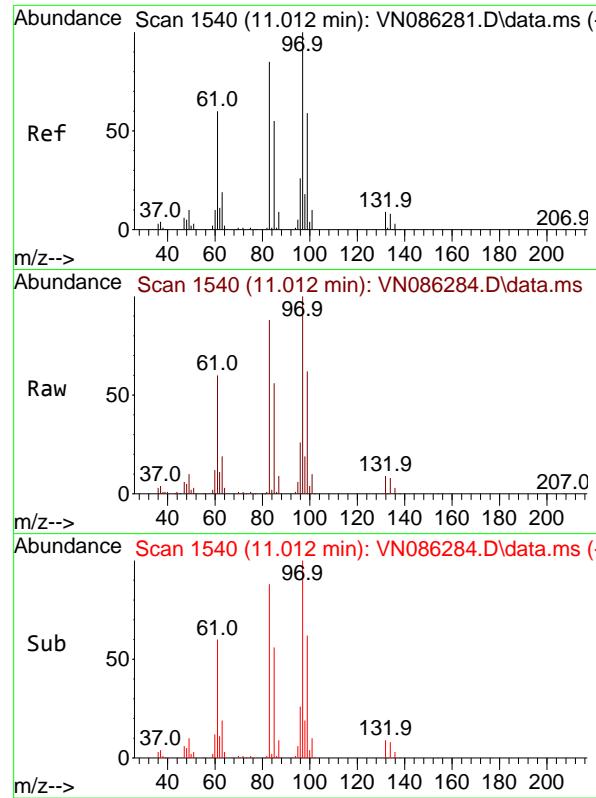
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#54
cis-1,3-Dichloropropene
Concen: 46.923 ug/l
RT: 10.306 min Scan# 1420
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30

Tgt Ion: 75 Resp: 250676
Ion Ratio Lower Upper
75 100
77 32.3 25.2 37.8
39 50.7 39.3 58.9



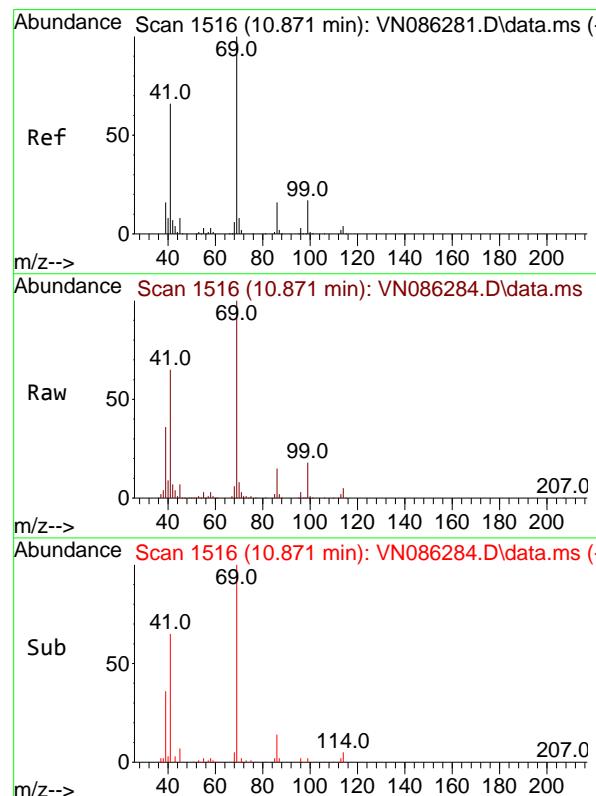
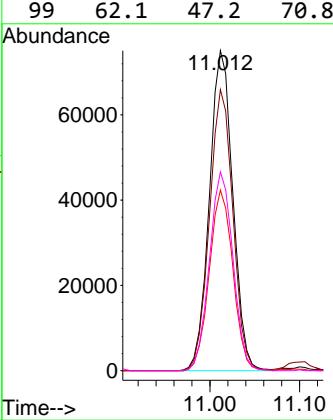


#55
1,1,2-Trichloroethane
Concen: 46.911 ug/l
RT: 11.012 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30

Instrument : MSVOA_N
ClientSampleId : ICVVN041525

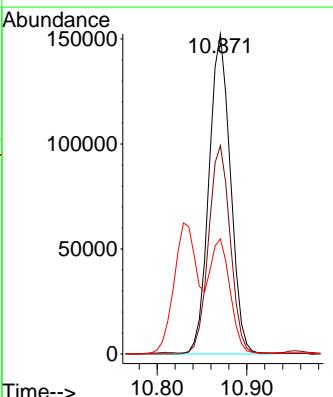
Manual Integrations APPROVED

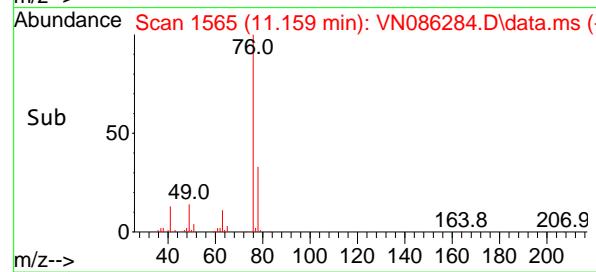
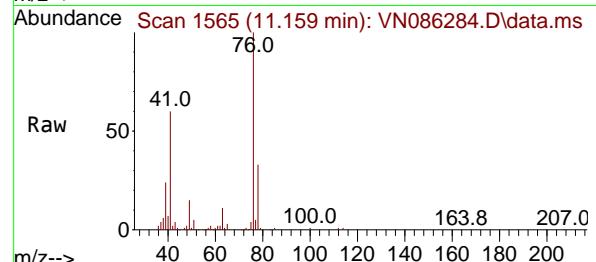
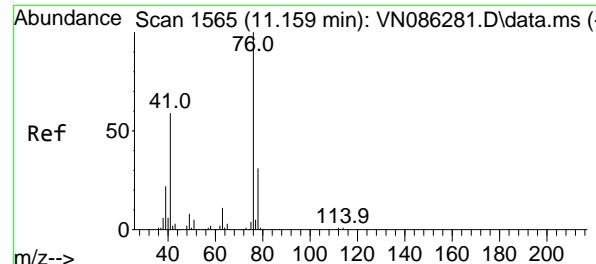
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#56
Ethyl methacrylate
Concen: 47.414 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30

Tgt Ion: 69 Resp: 253092
Ion Ratio Lower Upper
69 100
41 65.3 51.7 77.5
39 33.1 26.3 39.5





#57

1,3-Dichloropropane

Concen: 47.770 ug/l

RT: 11.159 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

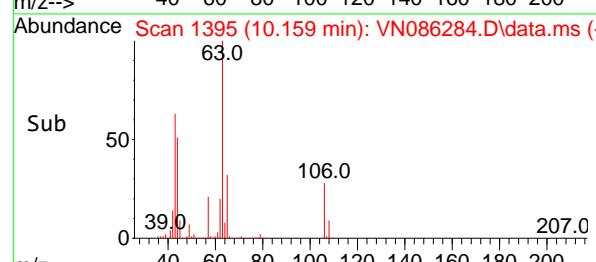
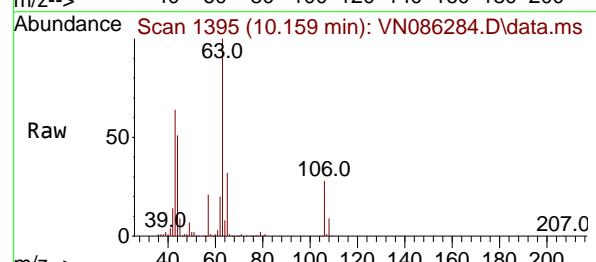
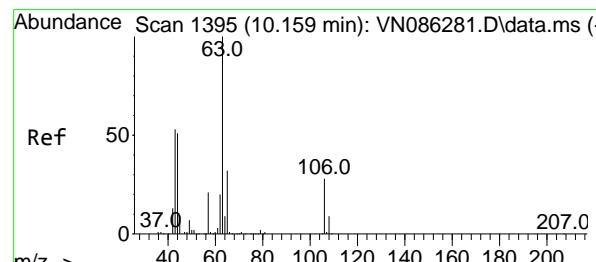
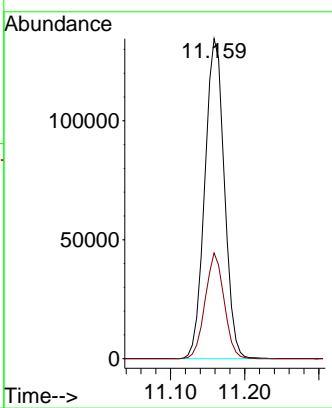
Instrument:

MSVOA_N

ClientSampleId :

ICVVN041525

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#58

2-Chloroethyl Vinyl ether

Concen: 241.924 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. -0.000 min

Lab File: VN086284.D

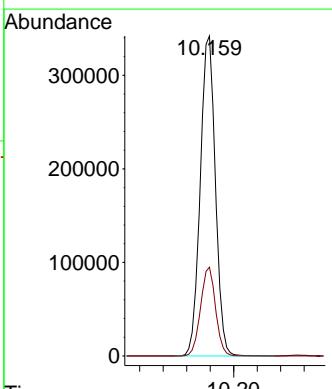
Acq: 15 Apr 2025 15:30

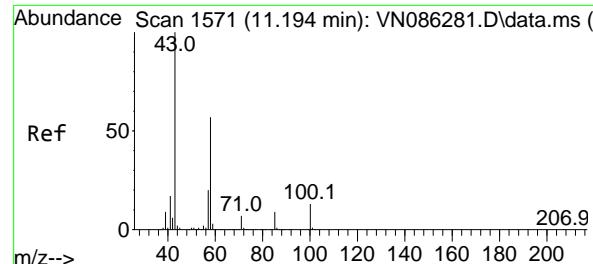
Tgt Ion: 63 Resp: 612932

Ion Ratio Lower Upper

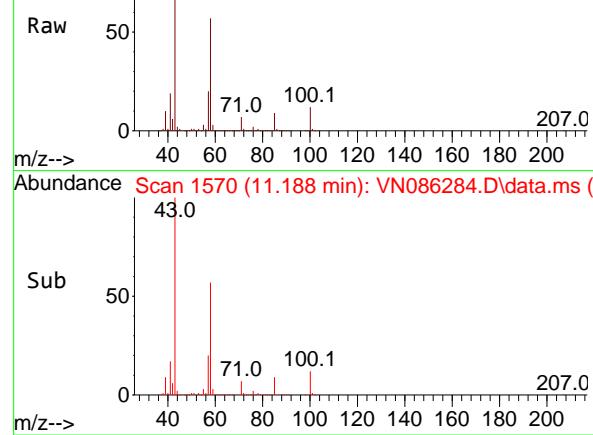
63 100

106 27.4 22.2 33.2

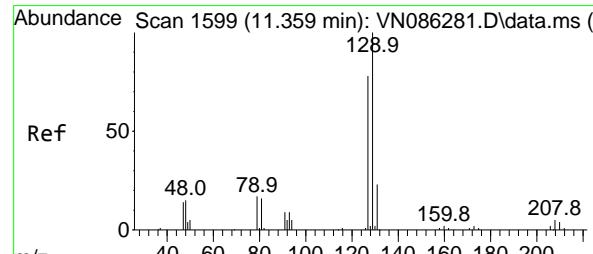
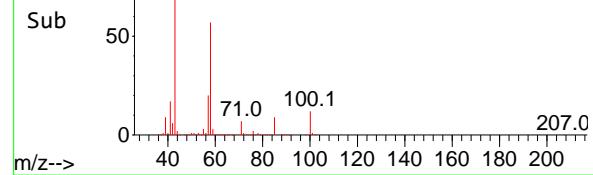




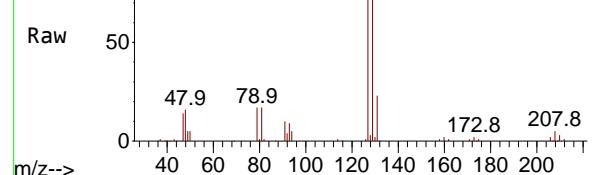
Abundance Scan 1570 (11.188 min): VN086284.D\data.ms



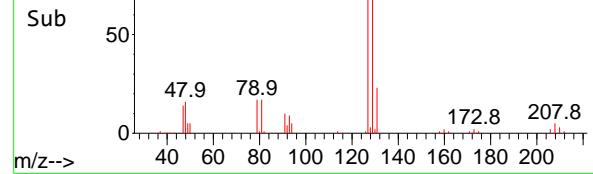
Abundance Scan 1570 (11.188 min): VN086284.D\data.ms (-)



Abundance Scan 1598 (11.353 min): VN086284.D\data.ms



Abundance Scan 1598 (11.353 min): VN086284.D\data.ms (-)



#59

2-Hexanone

Concen: 235.364 ug/l

RT: 11.188 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041525

Tgt Ion: 43 Resp: 759840

Ion Ratio Lower Upper

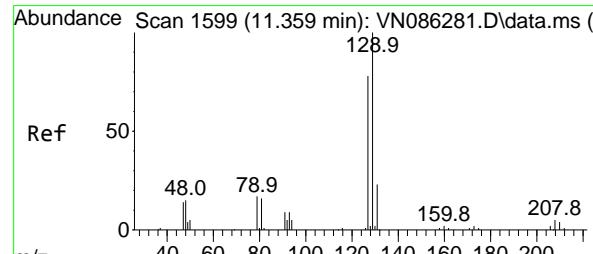
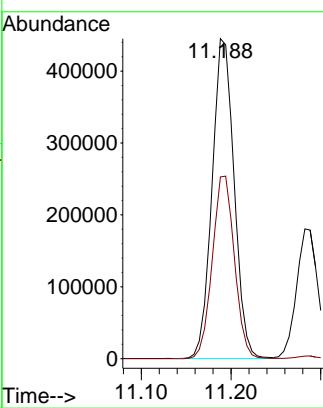
43 100

58 57.3 28.3 85.0

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



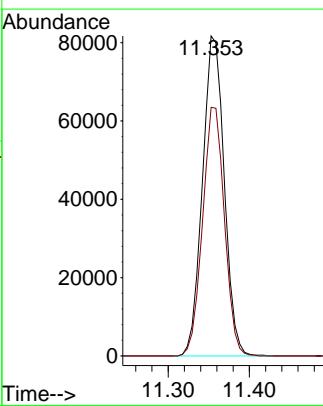
#60
Dibromochloromethane
Concen: 47.767 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. -0.006 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30

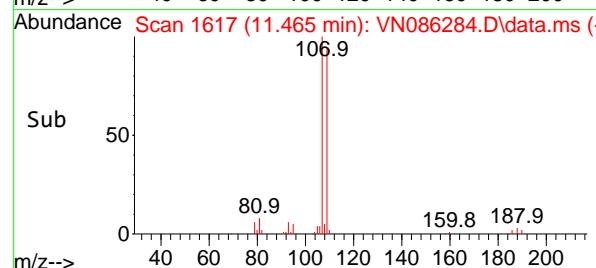
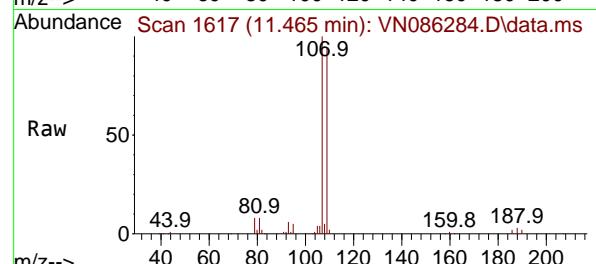
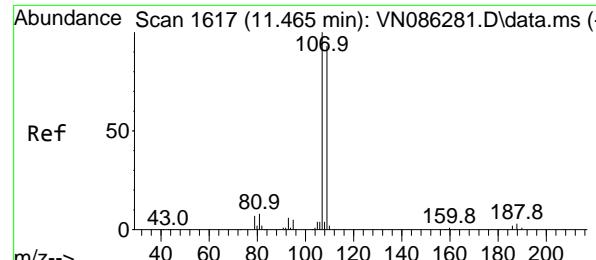
Tgt Ion:129 Resp: 152321

Ion Ratio Lower Upper

129 100

127 77.9 38.7 116.1





#61

1,2-Dibromoethane

Concen: 47.777 ug/l

RT: 11.465 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

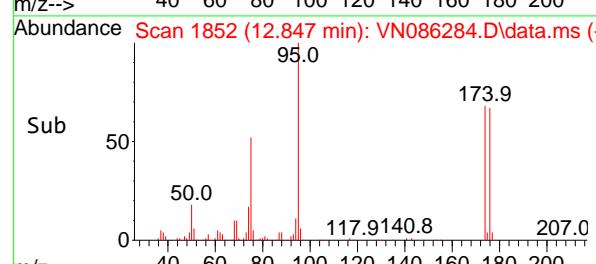
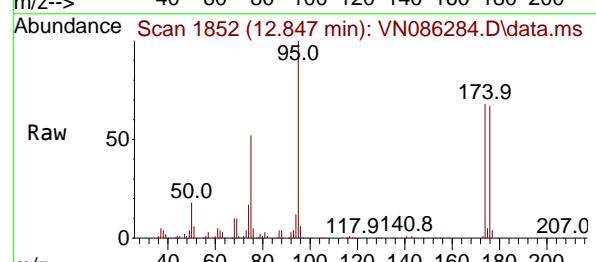
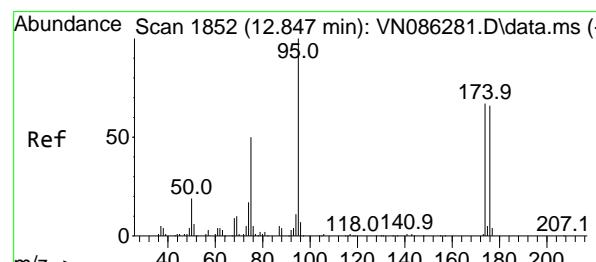
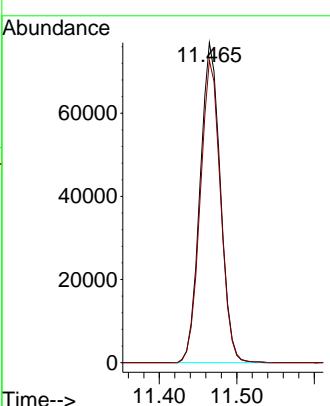
Instrument:

MSVOA_N

ClientSampleId :

ICVVN041525

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#62

4-Bromofluorobenzene

Concen: 49.950 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

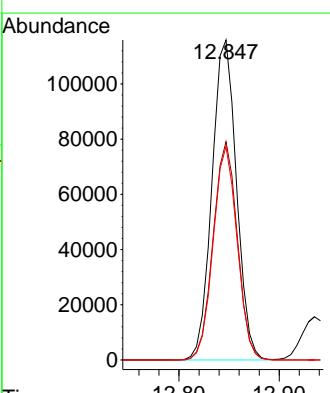
Tgt Ion: 95 Resp: 196820

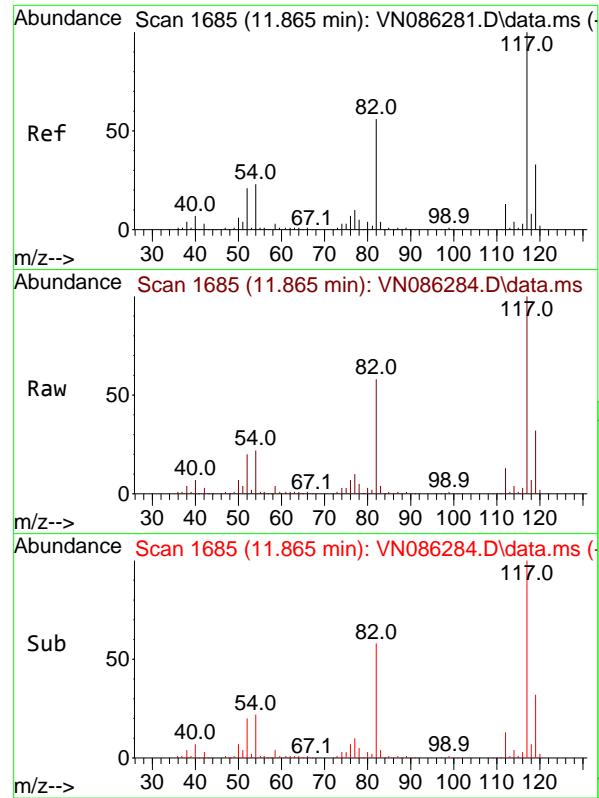
Ion Ratio Lower Upper

95 100

174 67.3 0.0 133.4

176 65.1 0.0 129.2



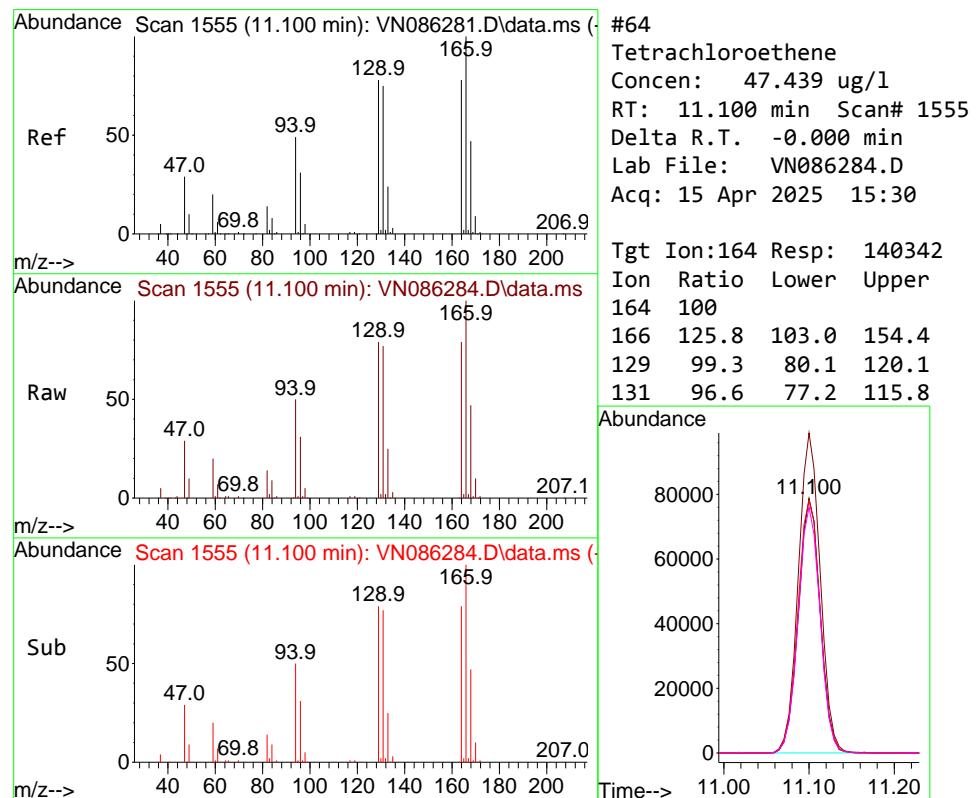
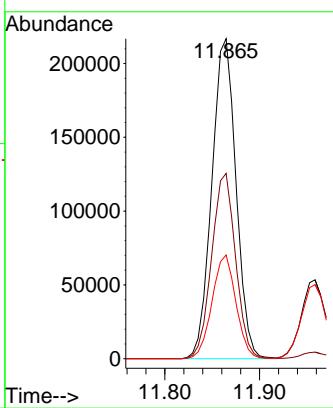


#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.865 min Scan# 1
 Delta R.T. -0.000 min
 Lab File: VN086284.D
 Acq: 15 Apr 2025 15:30

Instrument : MSVOA_N
 ClientSampleId : ICVVN041525

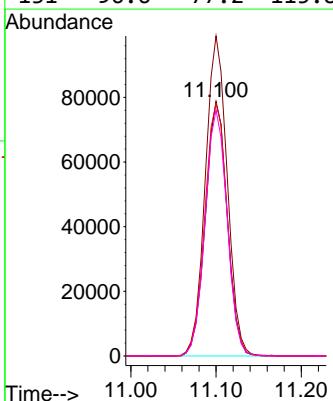
Manual Integrations
APPROVED

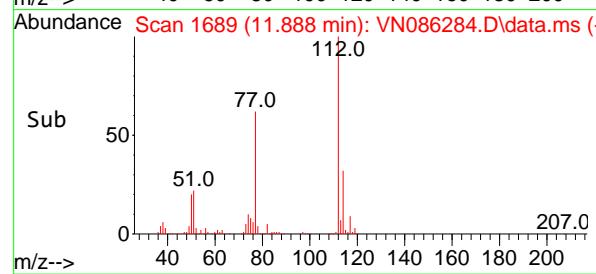
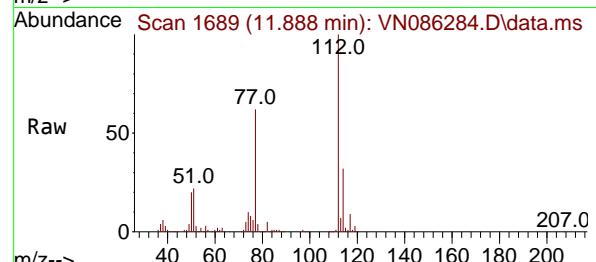
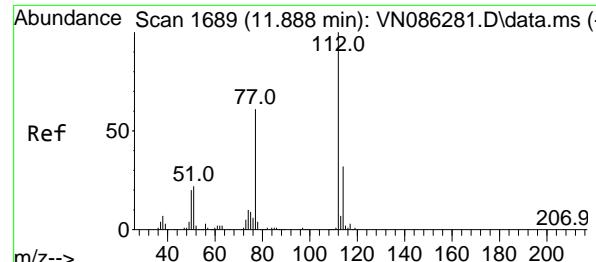
Reviewed By :John Carbone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025



#64
 Tetrachloroethene
 Concen: 47.439 ug/l
 RT: 11.100 min Scan# 1555
 Delta R.T. -0.000 min
 Lab File: VN086284.D
 Acq: 15 Apr 2025 15:30

Tgt Ion:164 Resp: 140342
 Ion Ratio Lower Upper
 164 100
 166 125.8 103.0 154.4
 129 99.3 80.1 120.1
 131 96.6 77.2 115.8



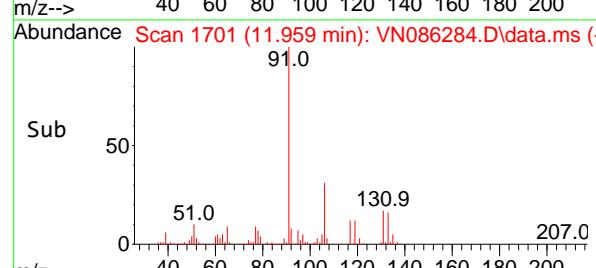
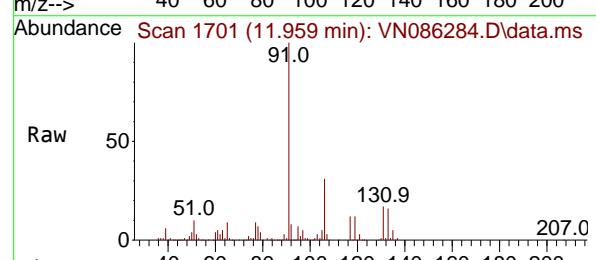
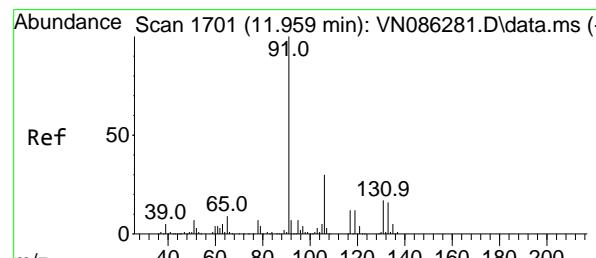
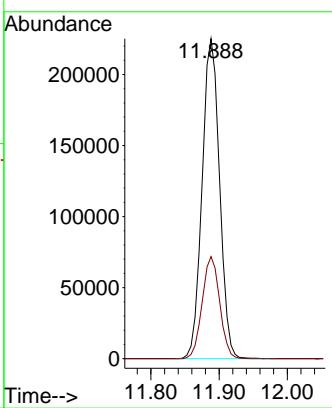


#65
Chlorobenzene
Concen: 46.735 ug/l
RT: 11.888 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30

Instrument :
MSVOA_N
ClientSampleId :
ICVVN041525

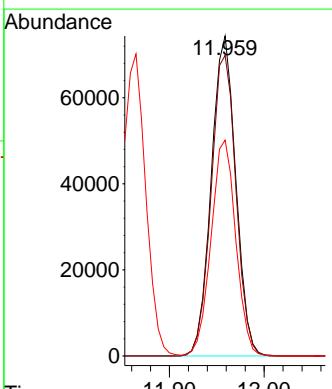
Manual Integrations APPROVED

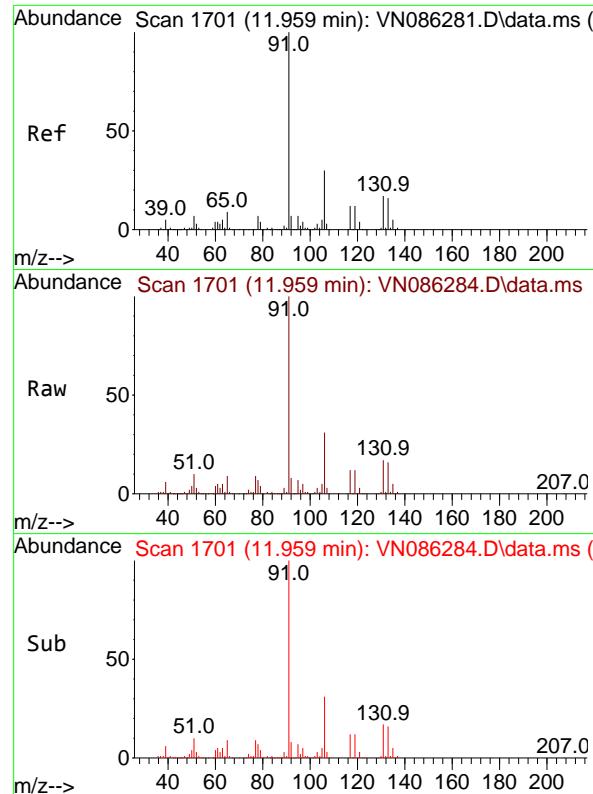
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 47.238 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30

Tgt Ion:131 Resp: 133755
Ion Ratio Lower Upper
131 100
133 95.3 47.1 141.3
119 68.1 33.8 101.4





#67

Ethyl Benzene

Concen: 47.196 ug/l

RT: 11.959 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

Instrument:

MSVOA_N

ClientSampleId :

ICVVN041525

Tgt Ion: 91 Resp: 730984

Ion Ratio Lower Upper

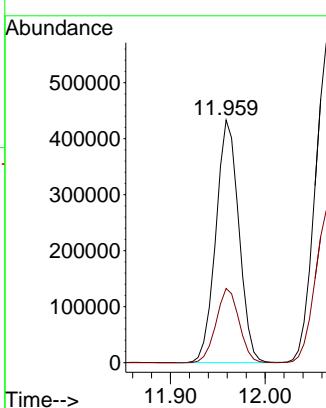
91 100

106 30.6 24.3 36.5

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#68

m/p-Xylenes

Concen: 94.994 ug/l

RT: 12.070 min Scan# 1720

Delta R.T. 0.006 min

Lab File: VN086284.D

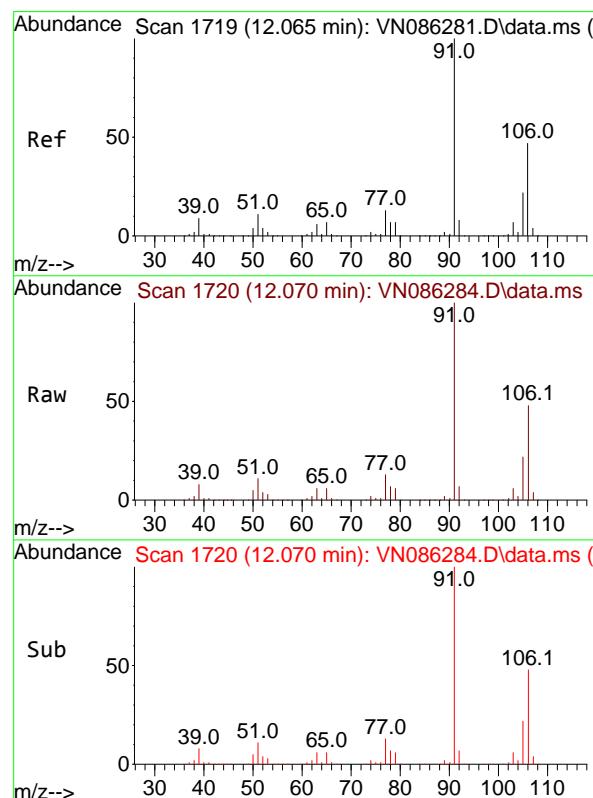
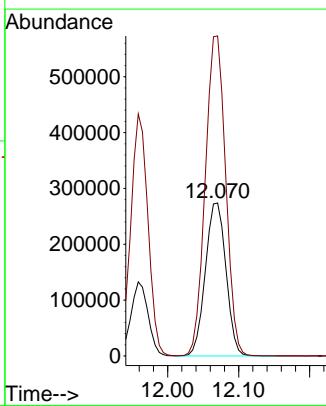
Acq: 15 Apr 2025 15:30

Tgt Ion:106 Resp: 551289

Ion Ratio Lower Upper

106 100

91 207.6 166.5 249.7



#68

m/p-Xylenes

Concen: 94.994 ug/l

RT: 12.070 min Scan# 1720

Delta R.T. 0.006 min

Lab File: VN086284.D

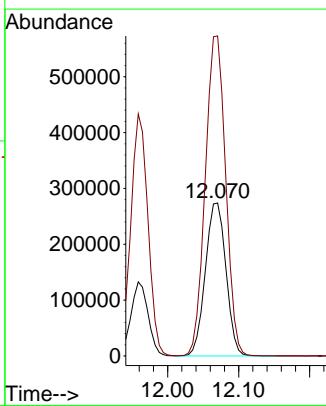
Acq: 15 Apr 2025 15:30

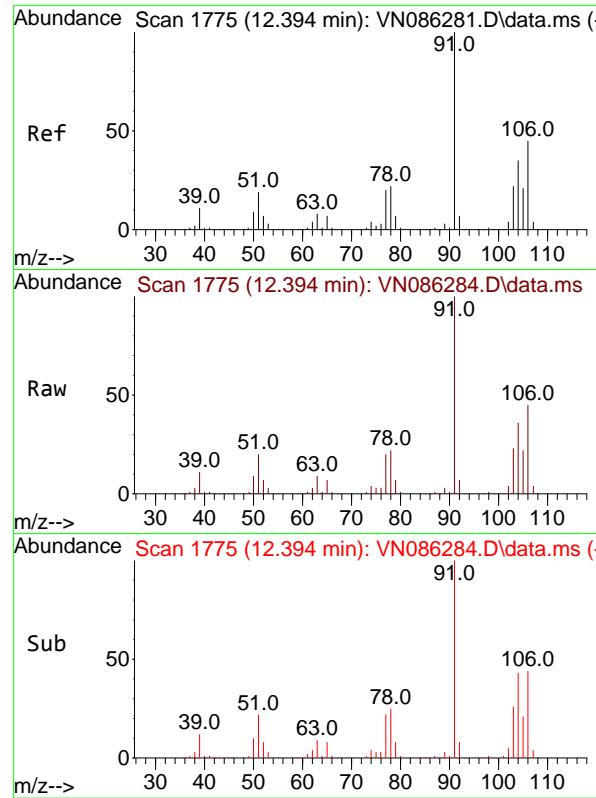
Tgt Ion:106 Resp: 551289

Ion Ratio Lower Upper

106 100

91 207.6 166.5 249.7



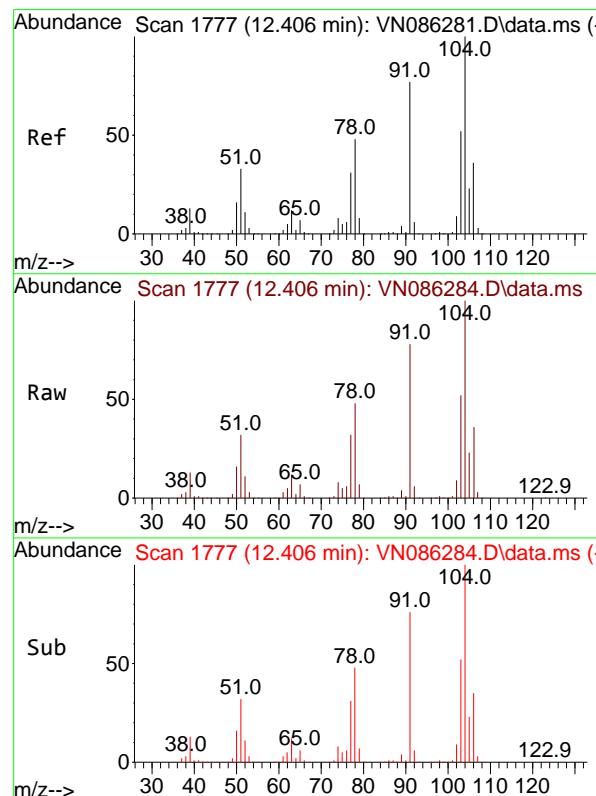
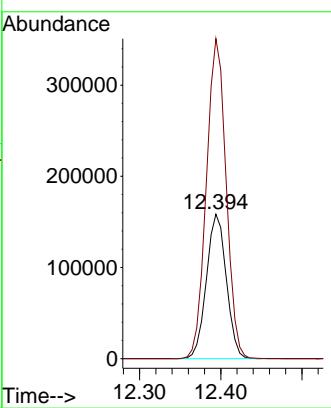


#69
o-Xylene
Concen: 47.043 ug/l
RT: 12.394 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30

Instrument :
MSVOA_N
ClientSampleId :
ICVVN041525

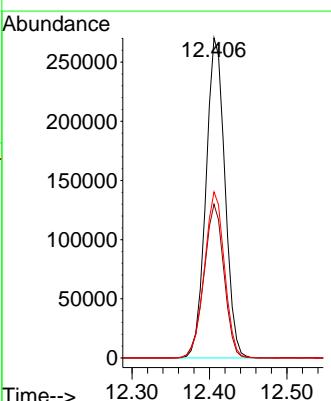
Manual Integrations
APPROVED

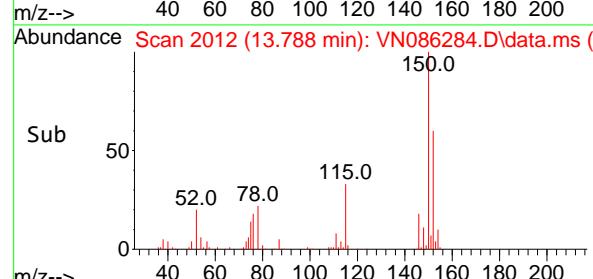
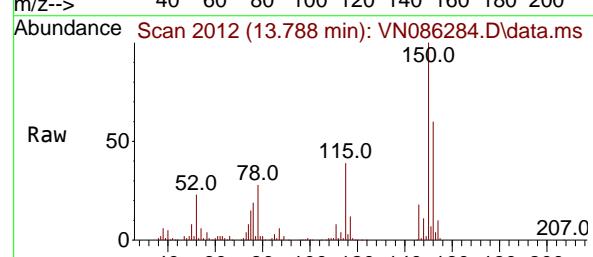
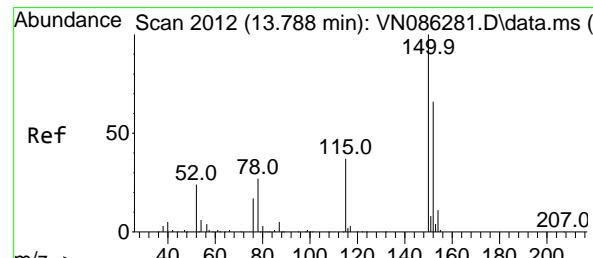
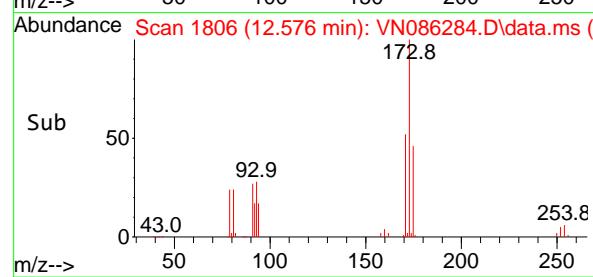
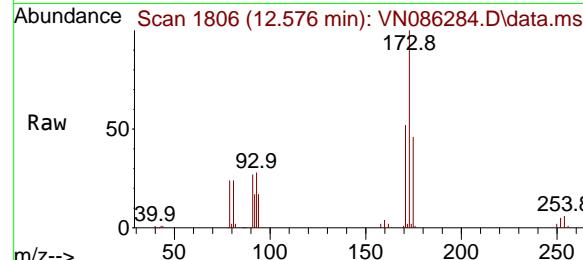
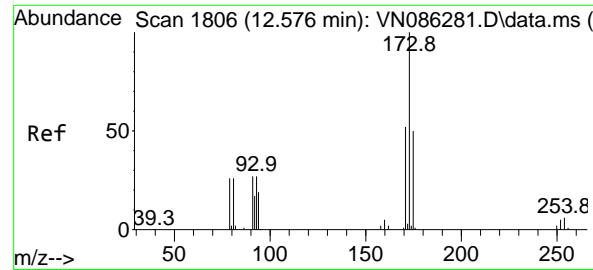
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



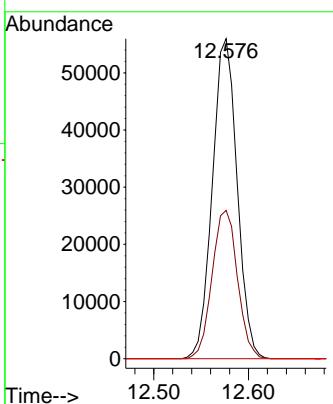
#70
Styrene
Concen: 48.138 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30

Tgt Ion:104 Resp: 460331
Ion Ratio Lower Upper
104 100
78 50.6 40.6 61.0
103 54.7 43.6 65.4

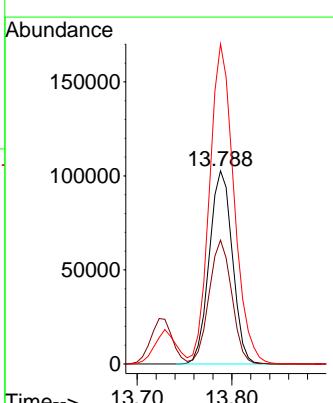


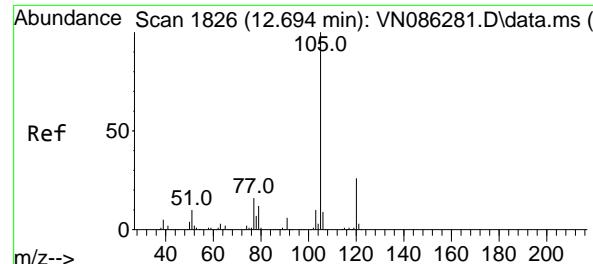


#71

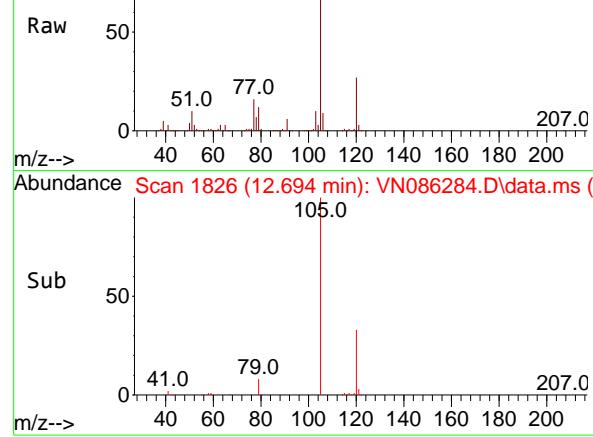
Bromoform
Concen: 47.634 ug/lRT: 12.576 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30Instrument :
MSVOA_N
ClientSampleId :
ICVVN041525**Manual Integrations
APPROVED**Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

#72

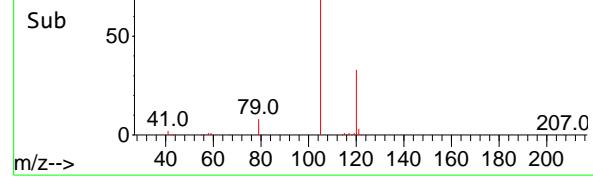
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30Tgt Ion:152 Resp: 173902
Ion Ratio Lower Upper
152 100
115 63.1 31.9 95.9
150 175.2 0.0 352.0



Abundance Scan 1826 (12.694 min): VN086284.D\data.ms (-)



Abundance Scan 1826 (12.694 min): VN086284.D\data.ms (-)



#73

Isopropylbenzene

Concen: 46.930 ug/l

RT: 12.694 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

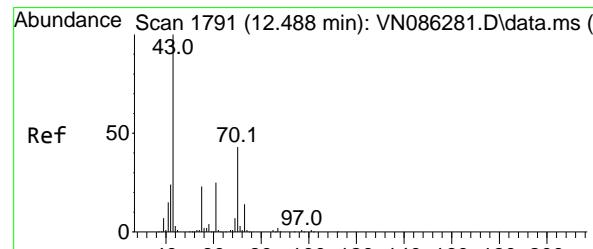
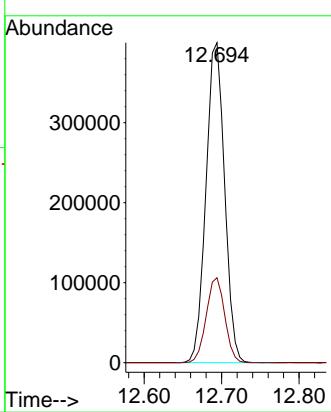
Instrument:

MSVOA_N

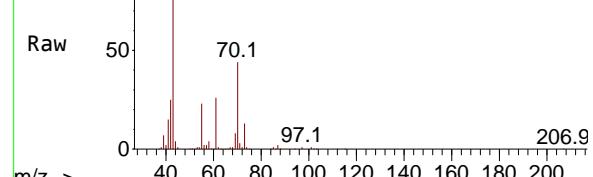
ClientSampleId :

ICVVN041525

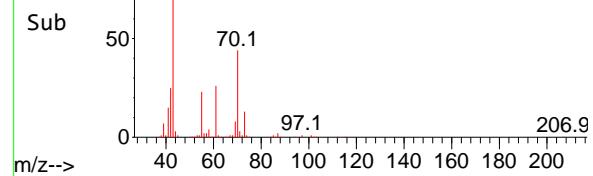
**Manual Integrations
APPROVED**

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 Supervised By :Semsettin Yesilyurt 04/16/2025


Abundance Scan 1791 (12.488 min): VN086284.D\data.ms (-)



Abundance Scan 1791 (12.488 min): VN086284.D\data.ms (-)



#74

N-amyl acetate

Concen: 45.241 ug/l

RT: 12.488 min Scan# 1791

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

Tgt Ion: 43 Resp: 320394

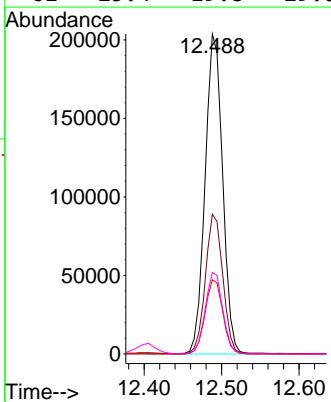
Ion Ratio Lower Upper

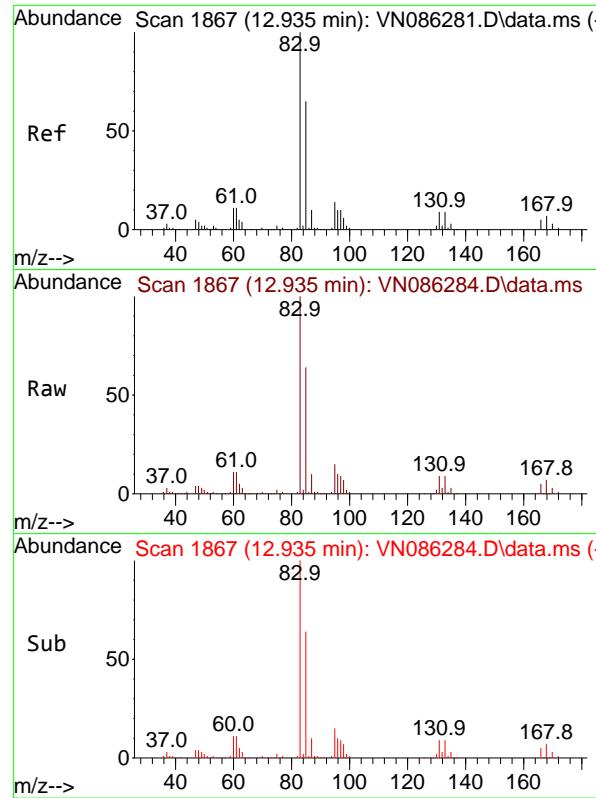
43 100

70 43.4 35.0 52.4

55 23.5 19.0 28.4

61 25.4 19.8 29.8



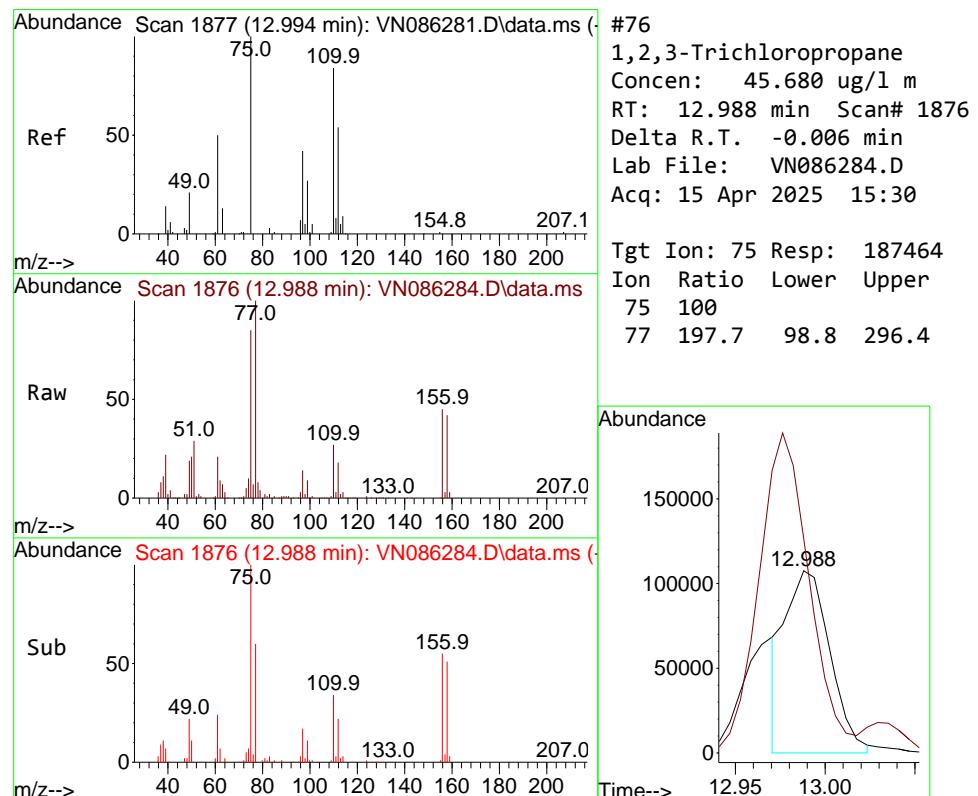
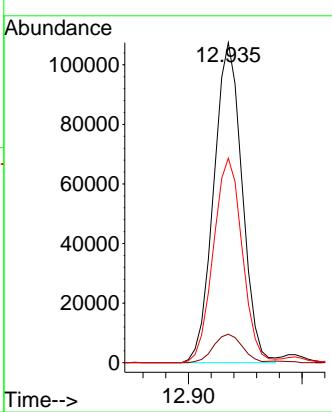


#75
1,1,2,2-Tetrachloroethane
Concen: 45.501 ug/l
RT: 12.935 min Scan# 18611
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30

Instrument : MSVOA_N
ClientSampleId : ICVNN041525

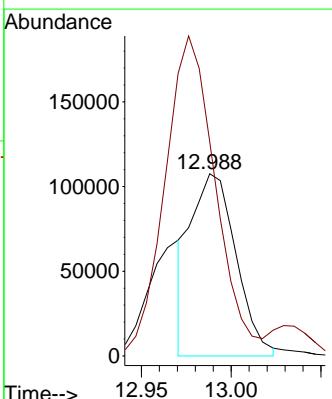
Manual Integrations APPROVED

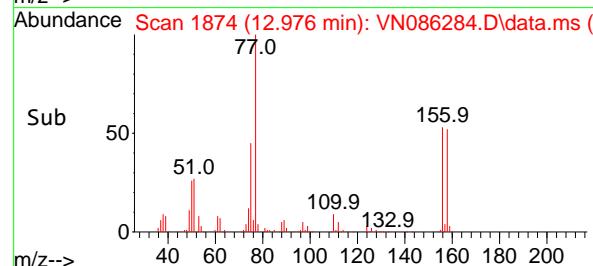
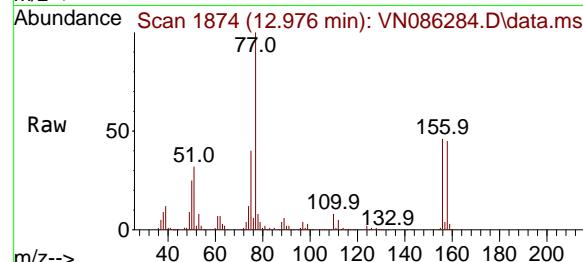
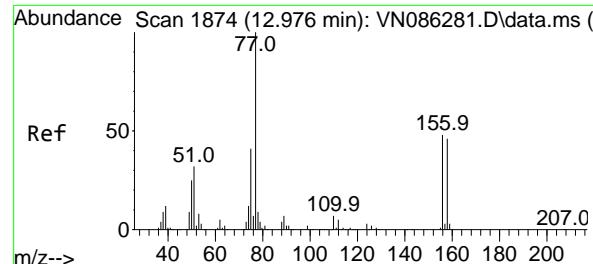
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#76
1,2,3-Trichloropropane
Concen: 45.680 ug/l
RT: 12.988 min Scan# 1876
Delta R.T. -0.006 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30

Tgt Ion: 75 Resp: 187464
Ion Ratio Lower Upper
75 100
77 197.7 98.8 296.4





#77

Bromobenzene

Concen: 47.860 ug/l

RT: 12.976 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

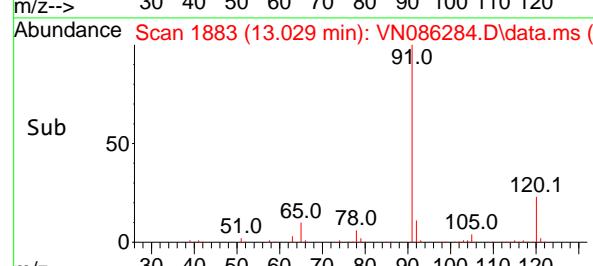
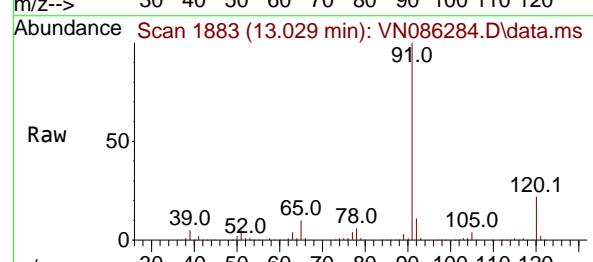
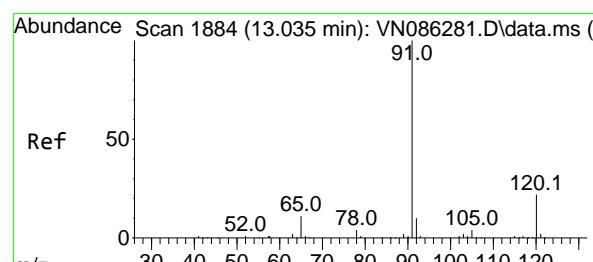
Instrument:

MSVOA_N

ClientSampleId :

ICVVN041525

**Manual Integrations
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 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#78

n-propylbenzene

Concen: 47.420 ug/l

RT: 13.029 min Scan# 1883

Delta R.T. -0.006 min

Lab File: VN086284.D

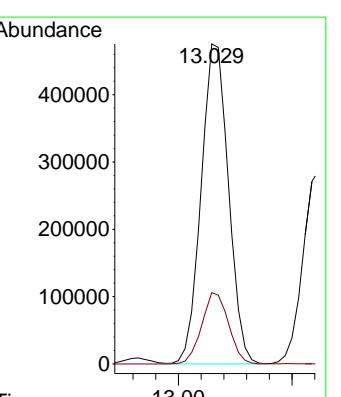
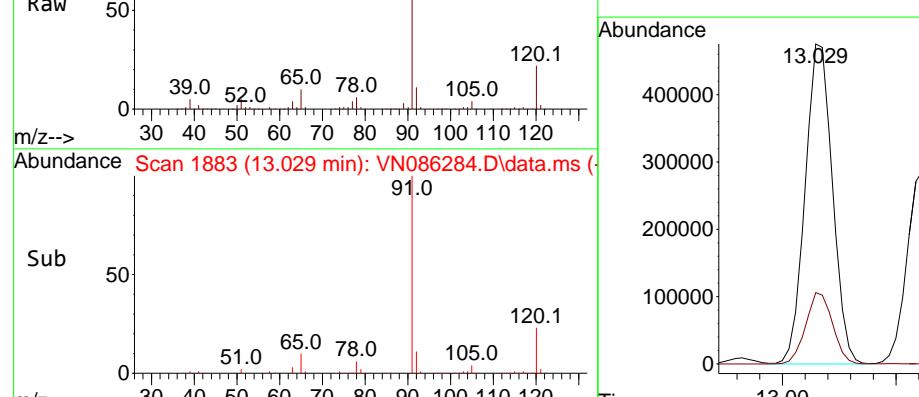
Acq: 15 Apr 2025 15:30

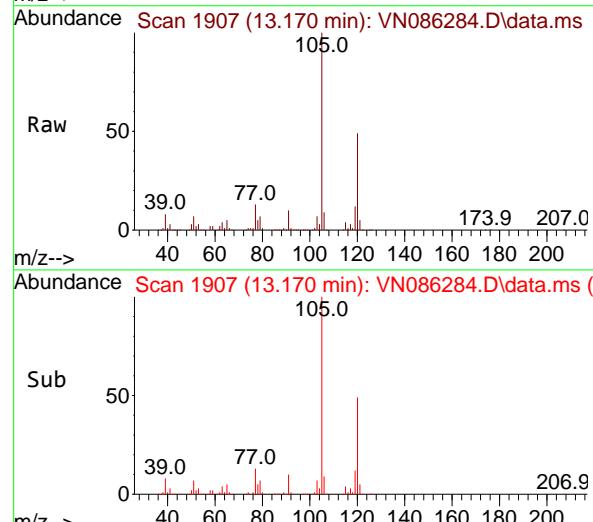
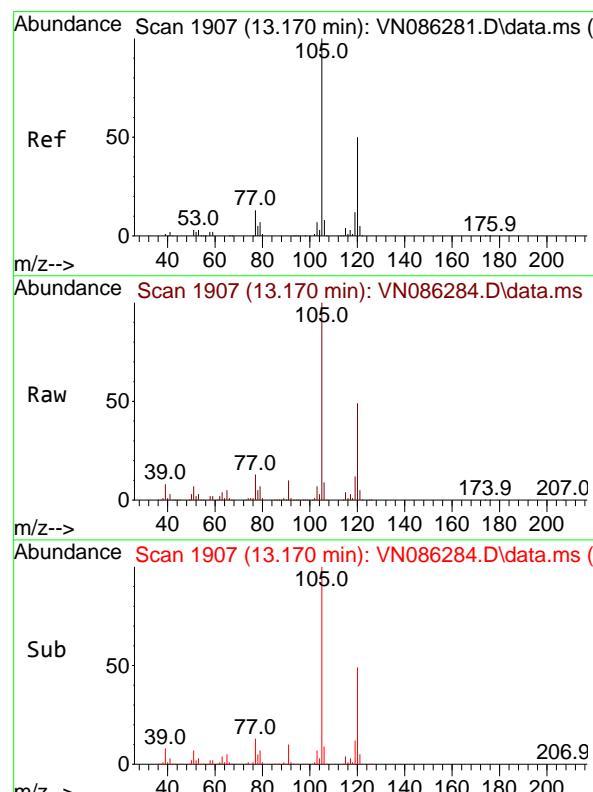
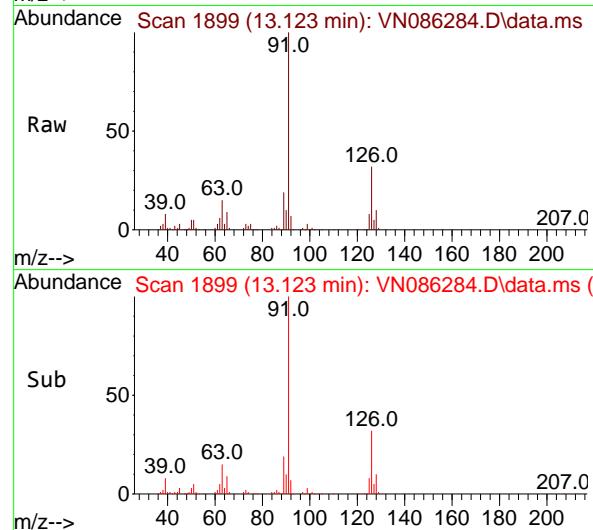
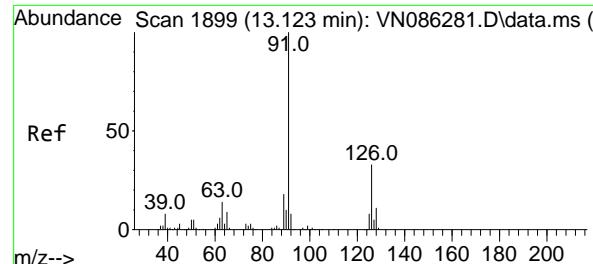
Tgt Ion: 91 Resp: 794892

Ion Ratio Lower Upper

91 100

120 21.8 11.1 33.3





#79

2-Chlorotoluene

Concen: 47.012 ug/l

RT: 13.123 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

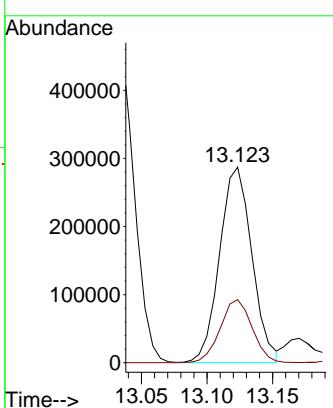
Instrument :

MSVOA_N

ClientSampleId :

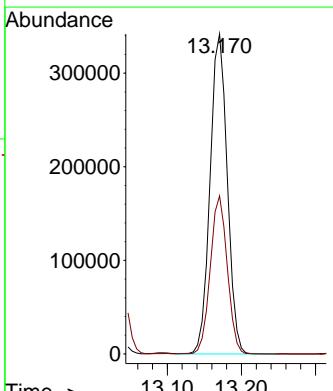
ICVVN041525

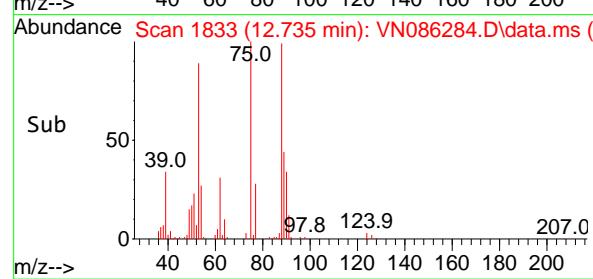
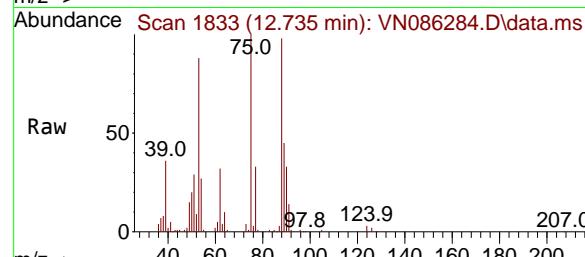
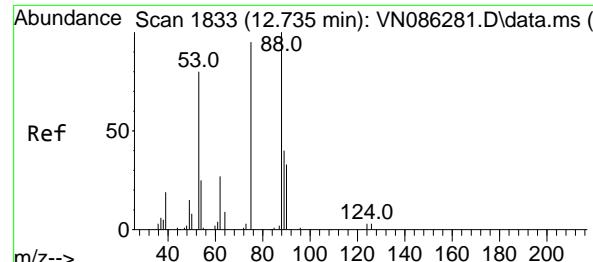
**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#80
 1,3,5-Trimethylbenzene
 Concen: 47.241 ug/l
 RT: 13.170 min Scan# 1907
 Delta R.T. -0.000 min
 Lab File: VN086284.D
 Acq: 15 Apr 2025 15:30

Tgt Ion:105 Resp: 550039
 Ion Ratio Lower Upper
 105 100
 120 48.8 24.5 73.5





#81

trans-1,4-Dichloro-2-butene

Concen: 49.639 ug/l m

RT: 12.735 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

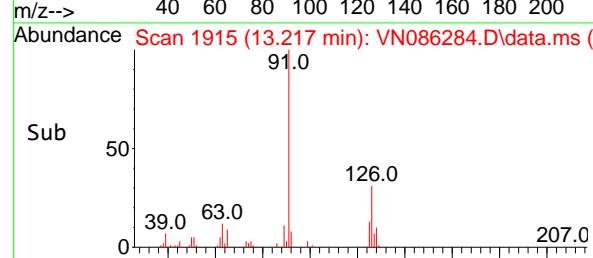
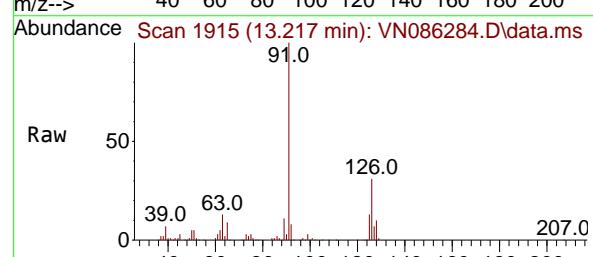
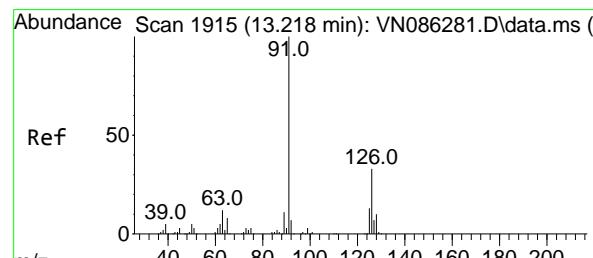
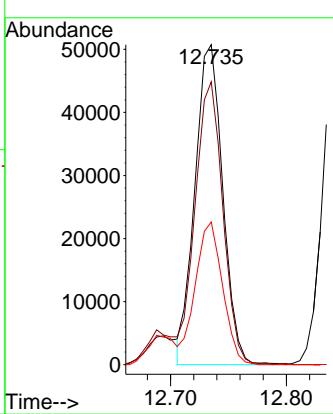
Instrument:

MSVOA_N

ClientSampleId :

ICVVN041525

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#82

4-Chlorotoluene

Concen: 47.552 ug/l

RT: 13.217 min Scan# 1915

Delta R.T. -0.000 min

Lab File: VN086284.D

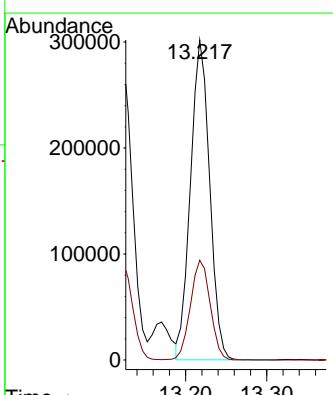
Acq: 15 Apr 2025 15:30

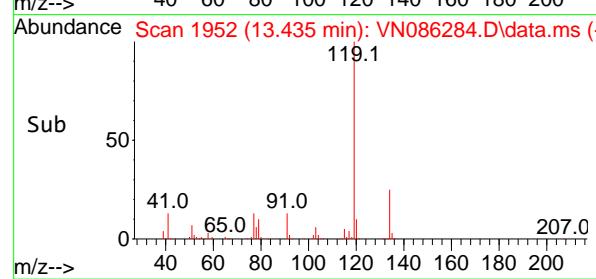
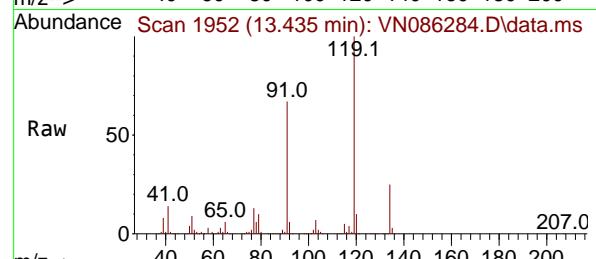
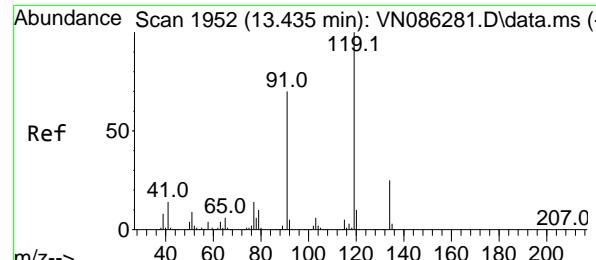
Tgt Ion: 91 Resp: 495478

Ion Ratio Lower Upper

91 100

126 32.1 16.2 48.6





#83

tert-Butylbenzene

Concen: 45.757 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

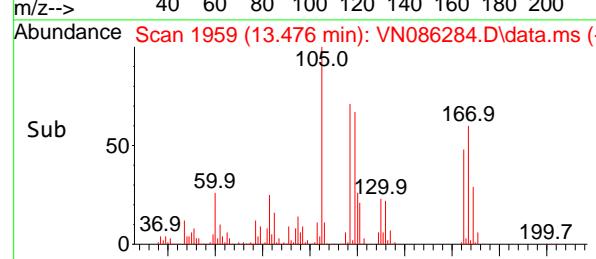
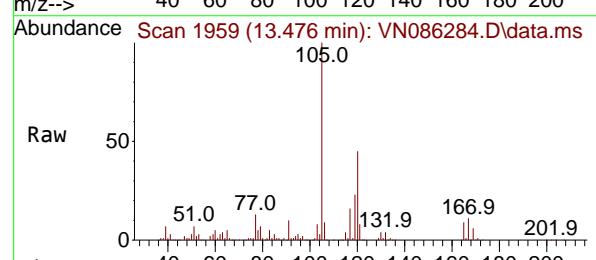
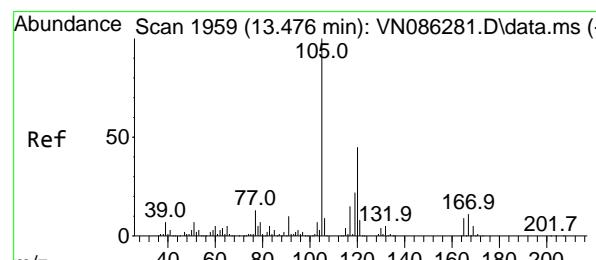
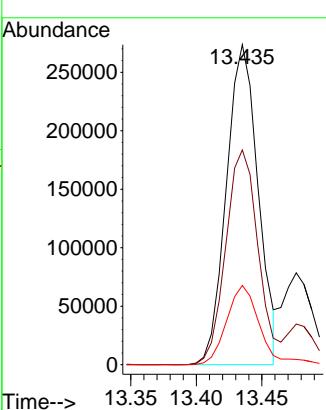
Instrument:

MSVOA_N

ClientSampleId :

ICVVN041525

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#84

1,2,4-Trimethylbenzene

Concen: 47.342 ug/l

RT: 13.476 min Scan# 1959

Delta R.T. -0.000 min

Lab File: VN086284.D

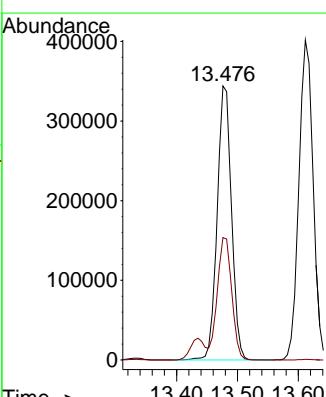
Acq: 15 Apr 2025 15:30

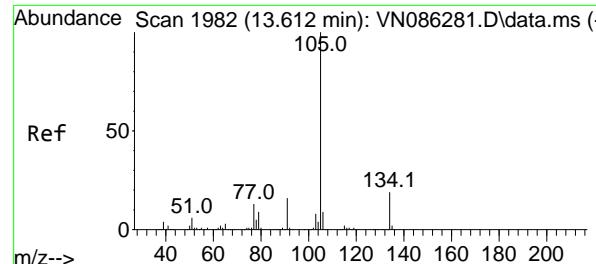
Tgt Ion:105 Resp: 561084

Ion Ratio Lower Upper

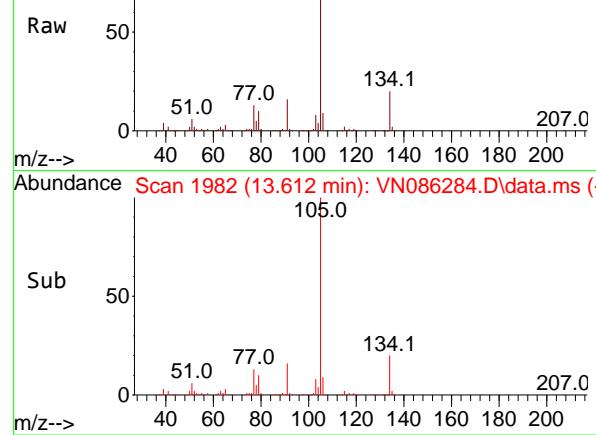
105 100

120 44.8 22.4 67.3

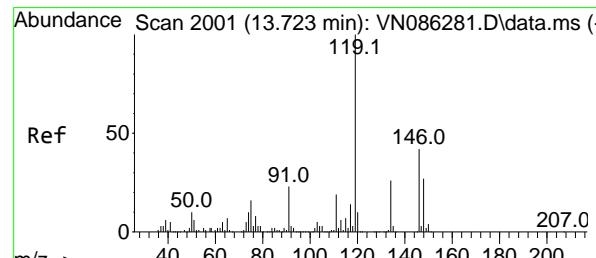
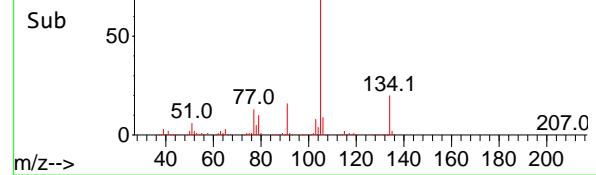




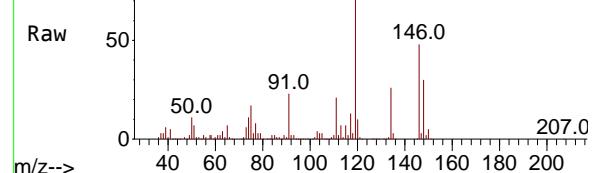
Abundance Scan 1982 (13.612 min): VN086284.D\data.ms



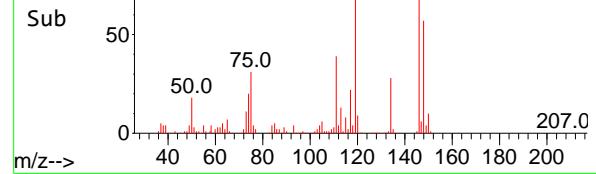
Abundance Scan 1982 (13.612 min): VN086284.D\data.ms (-)



Abundance Scan 2002 (13.729 min): VN086284.D\data.ms



Abundance Scan 2002 (13.729 min): VN086284.D\data.ms (-)



#85

sec-Butylbenzene

Concen: 46.468 ug/l

RT: 13.612 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

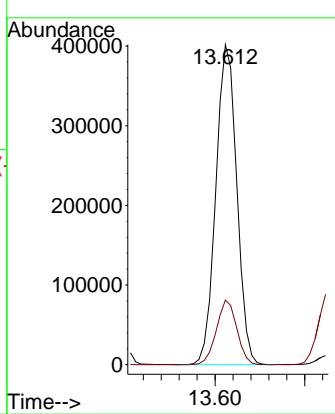
Instrument:

MSVOA_N

ClientSampleId :

ICVVN041525

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#86

p-Isopropyltoluene

Concen: 47.395 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.006 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

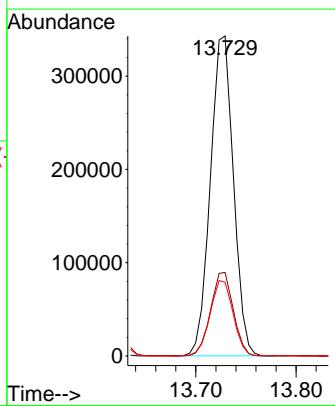
Tgt Ion:119 Resp: 546663

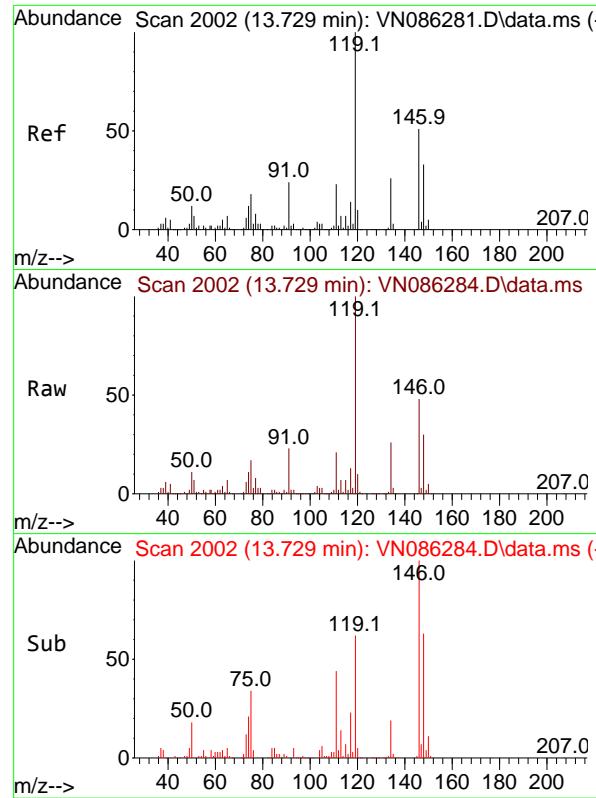
Ion Ratio Lower Upper

119 100

134 25.8 13.1 39.1

91 23.7 11.9 35.9





#87

1,3-Dichlorobenzene

Concen: 46.983 ug/l

RT: 13.729 min Scan# 2

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041525

Tgt Ion:146 Resp: 278381

Ion Ratio Lower Upper

146 100

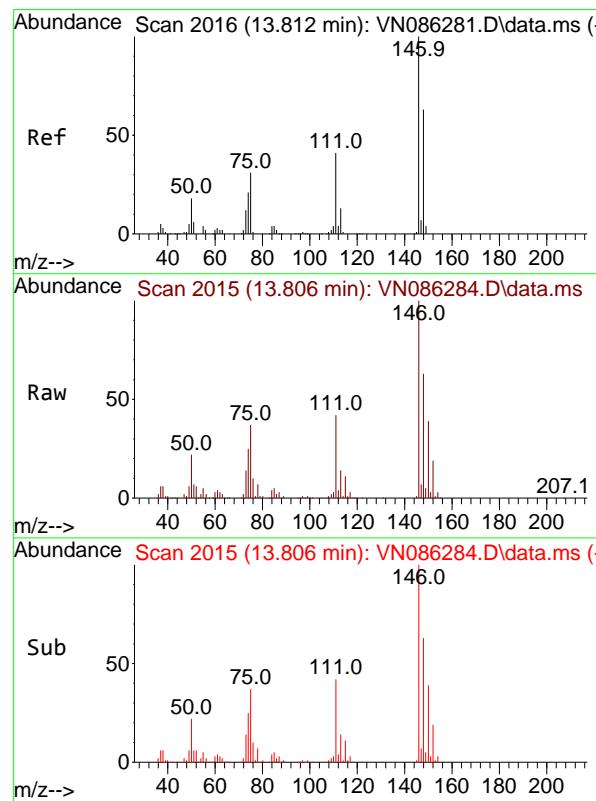
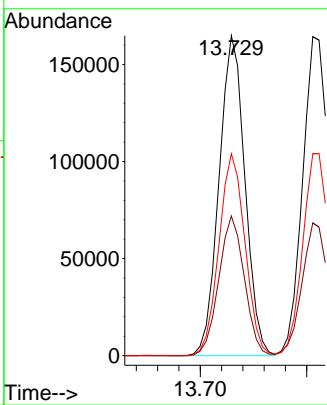
111 43.1 21.9 65.7

148 63.6 31.9 95.5

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#88

1,4-Dichlorobenzene

Concen: 47.319 ug/l

RT: 13.806 min Scan# 2015

Delta R.T. -0.006 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

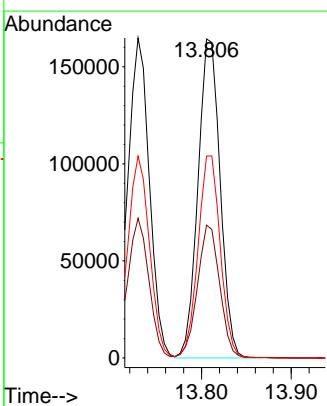
Tgt Ion:146 Resp: 282403

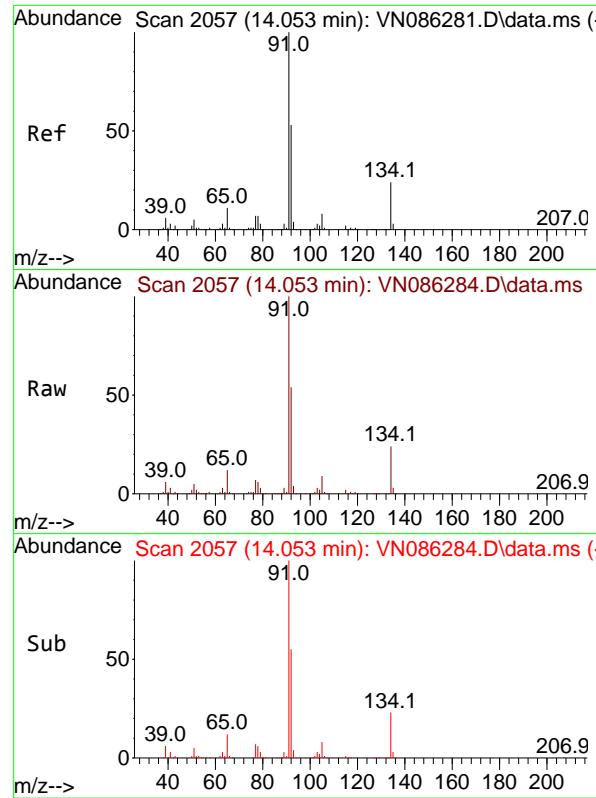
Ion Ratio Lower Upper

146 100

111 41.5 21.3 63.9

148 63.5 31.9 95.9



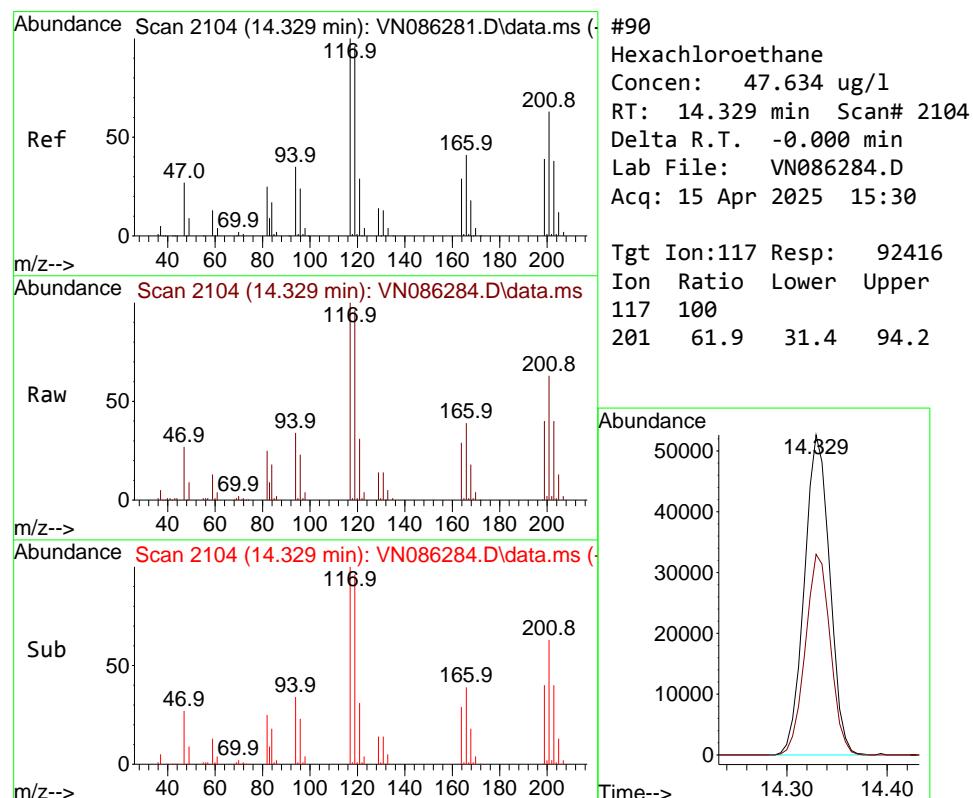


#89
n-Butylbenzene
Concen: 47.178 ug/l
RT: 14.053 min Scan# 2
Instrument : MSVOA_N
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30

ClientSampleId : ICVVN041525

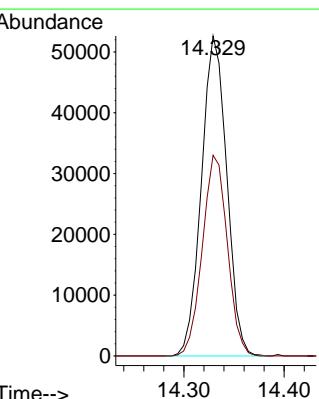
Manual Integrations
APPROVED

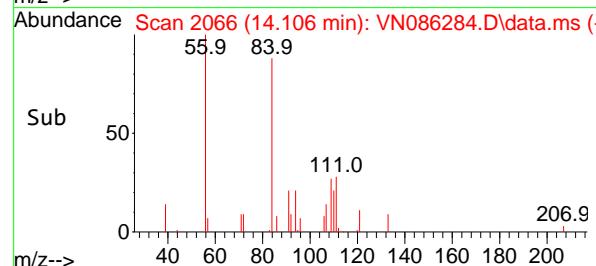
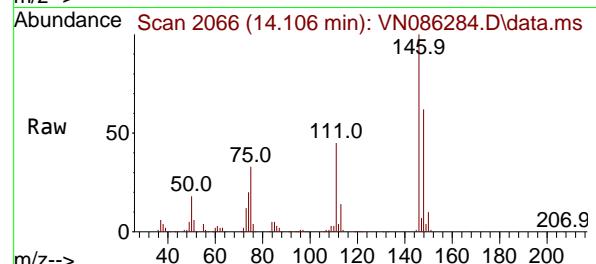
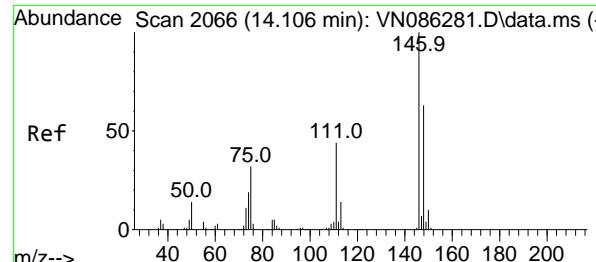
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#90
Hexachloroethane
Concen: 47.634 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30

Tgt Ion:117 Resp: 92416
Ion Ratio Lower Upper
117 100
201 61.9 31.4 94.2





#91

1,2-Dichlorobenzene

Concen: 47.545 ug/l

RT: 14.106 min Scan# 2

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041525

Tgt Ion:146 Resp: 273139

Ion Ratio Lower Upper

146 100

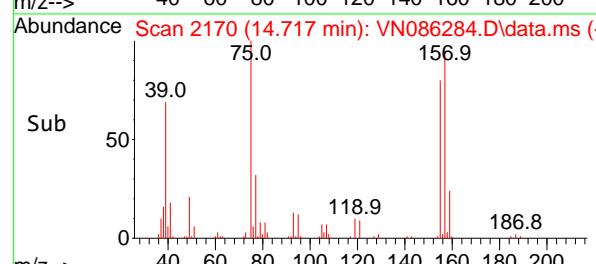
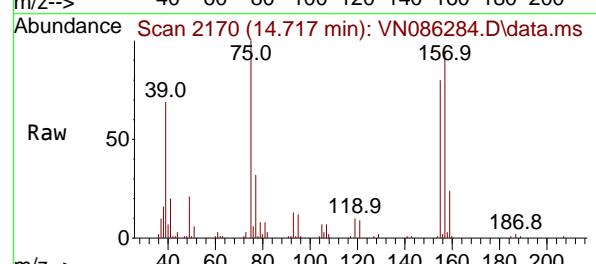
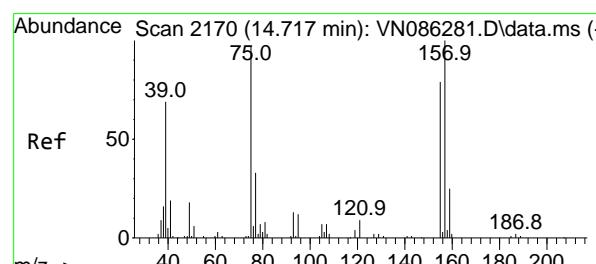
111 44.5 22.4 67.0

148 62.9 31.8 95.4

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#92

1,2-Dibromo-3-Chloropropane

Concen: 48.017 ug/l

RT: 14.717 min Scan# 2170

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

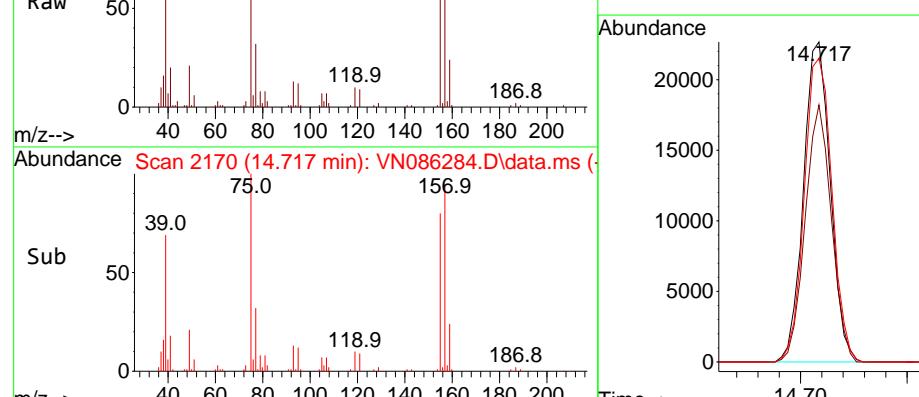
Tgt Ion: 75 Resp: 39601

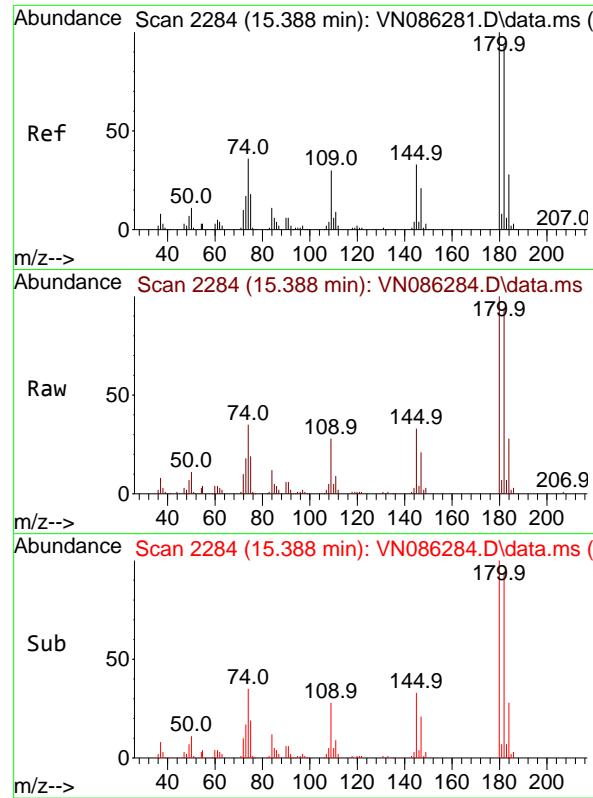
Ion Ratio Lower Upper

75 100

155 78.6 40.3 120.9

157 97.8 49.0 147.2



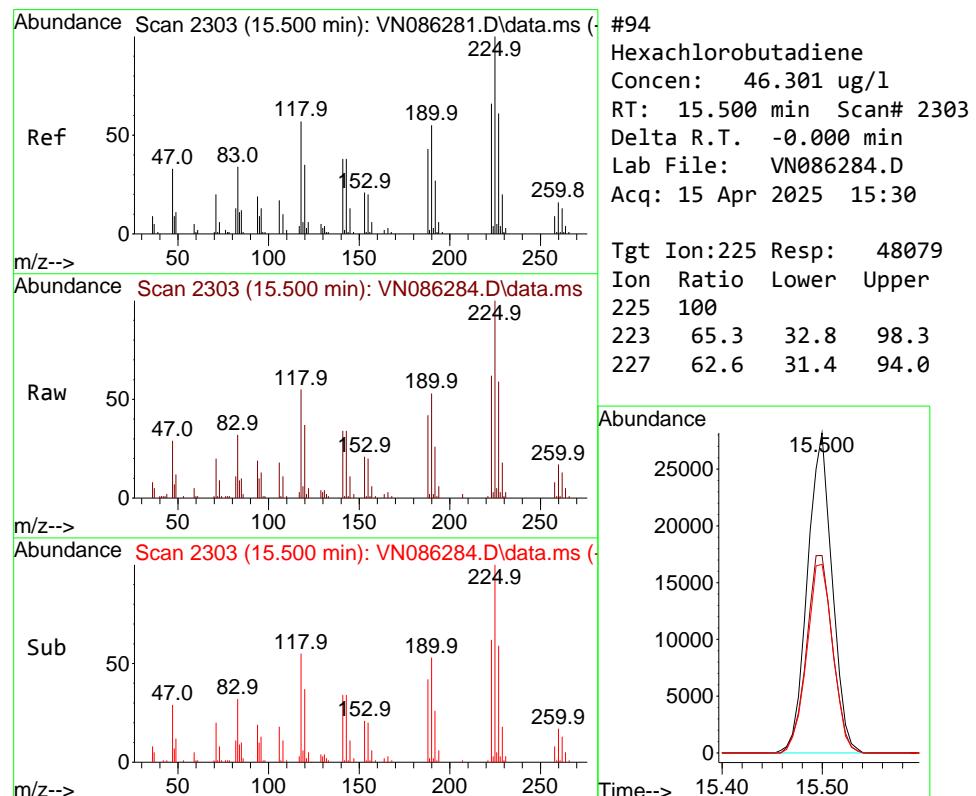
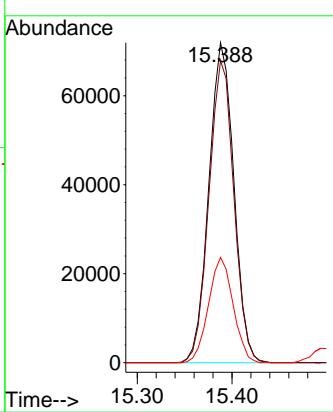


#93
1,2,4-Trichlorobenzene
Concen: 47.854 ug/l
RT: 15.388 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30

Instrument : MSVOA_N
ClientSampleId : ICVVN041525

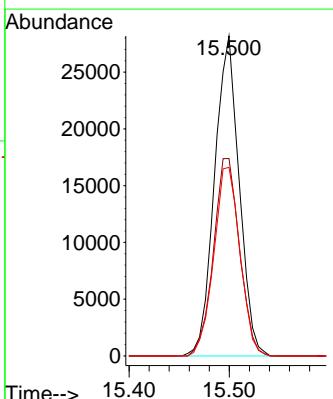
Manual Integrations
APPROVED

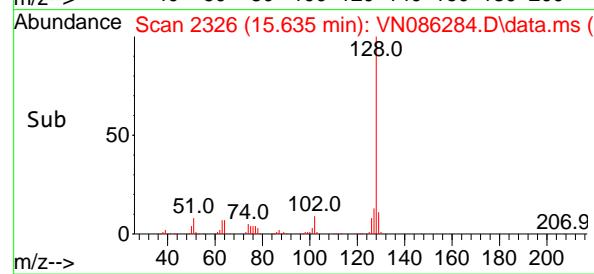
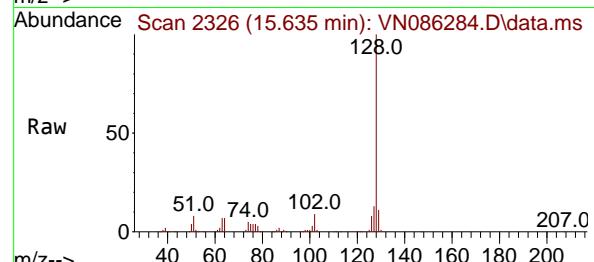
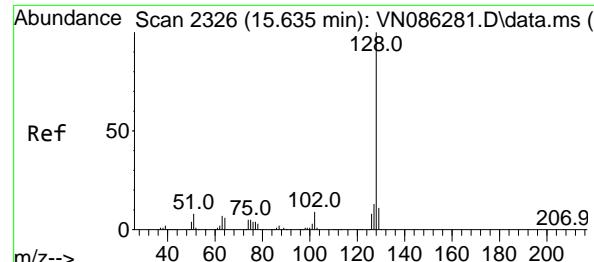
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#94
Hexachlorobutadiene
Concen: 46.301 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30

Tgt Ion:225 Resp: 48079
Ion Ratio Lower Upper
225 100
223 65.3 32.8 98.3
227 62.6 31.4 94.0





#95

Naphthalene

Concen: 48.408 ug/l

RT: 15.635 min Scan# 2

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

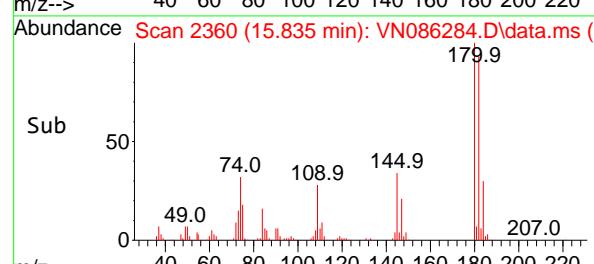
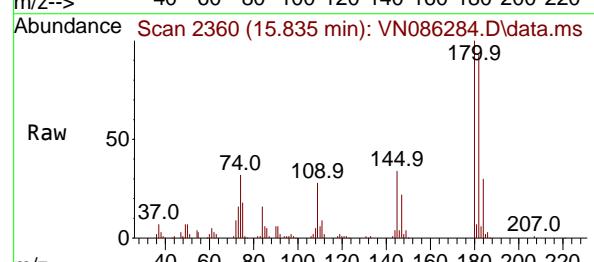
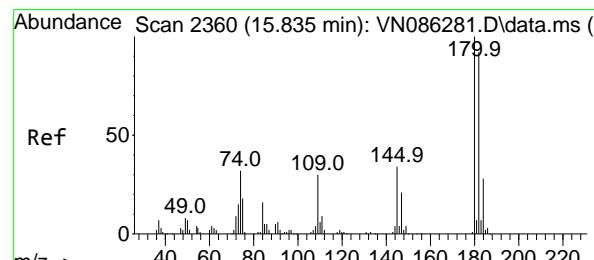
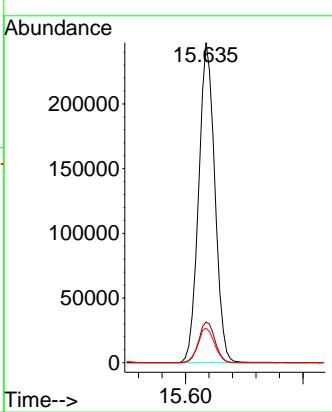
Instrument :

MSVOA_N

ClientSampleId :

ICVVN041525

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025


#96

1,2,3-Trichlorobenzene

Concen: 47.314 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

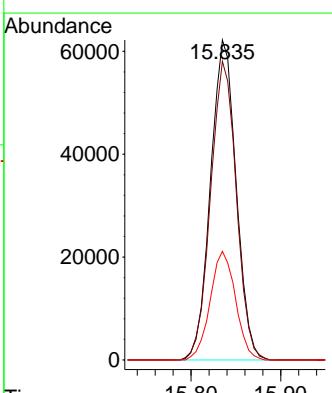
Tgt Ion:180 Resp: 123220

Ion Ratio Lower Upper

180 100

182 93.8 47.3 142.0

145 33.7 17.2 51.5



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041525\
 Data File : VN086284.D
 Acq On : 15 Apr 2025 15:30
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN041525

Quant Time: Apr 16 04:30:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 04:19:23 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I | Pentafluorobenzene | 1.000 | 1.000 | 0.0 | 104 | 0.00 |
| 2 T | Dichlorodifluoromethane | 0.593 | 0.595 | -0.3 | 105 | 0.00 |
| 3 P | Chloromethane | 0.861 | 0.798 | 7.3 | 110 | 0.00 |
| 4 C | Vinyl Chloride | 0.822 | 0.790 | 3.9# | 104 | 0.00 |
| 5 T | Bromomethane | 0.370 | 0.382 | -3.2 | 112 | 0.00 |
| 6 T | Chloroethane | 0.550 | 0.512 | 6.9 | 107 | 0.00 |
| 7 T | Trichlorofluoromethane | 0.911 | 0.875 | 4.0 | 106 | 0.00 |
| 8 T | Diethyl Ether | 0.398 | 0.378 | 5.0 | 105 | 0.00 |
| 9 T | 1,1,2-Trichlorotrifluoroeth | 0.551 | 0.533 | 3.3 | 106 | 0.00 |
| 10 T | Methyl Iodide | 0.606 | 0.640 | -5.6 | 111 | 0.00 |
| 11 T | Tert butyl alcohol | 0.132 | 0.124 | 6.1 | 104 | 0.00 |
| 12 CM | 1,1-Dichloroethene | 0.588 | 0.556 | 5.4# | 105 | 0.00 |
| 13 T | Acrolein | 0.075 | 0.062 | 17.3 | 106 | 0.00 |
| 14 T | Allyl chloride | 1.046 | 0.947 | 9.5 | 106 | 0.00 |
| 15 T | Acrylonitrile | 0.327 | 0.320 | 2.1 | 105 | 0.00 |
| 16 T | Acetone | 0.290 | 0.255 | 12.1 | 106 | 0.00 |
| 17 T | Carbon Disulfide | 1.762 | 1.550 | 12.0 | 104 | 0.00 |
| 18 T | Methyl Acetate | 0.870 | 0.793 | 8.9 | 106 | 0.00 |
| 19 T | Methyl tert-butyl Ether | 2.163 | 2.039 | 5.7 | 106 | 0.00 |
| 20 T | Methylene Chloride | 0.670 | 0.627 | 6.4 | 105 | 0.00 |
| 21 T | trans-1,2-Dichloroethene | 0.615 | 0.578 | 6.0 | 105 | 0.00 |
| 22 T | Diisopropyl ether | 2.276 | 2.113 | 7.2 | 104 | 0.00 |
| 23 T | Vinyl Acetate | 1.591 | 1.493 | 6.2 | 105 | 0.00 |
| 24 P | 1,1-Dichloroethane | 1.201 | 1.135 | 5.5 | 104 | 0.00 |
| 25 T | 2-Butanone | 0.451 | 0.431 | 4.4 | 106 | 0.00 |
| 26 T | 2,2-Dichloropropane | 1.075 | 1.005 | 6.5 | 106 | 0.00 |
| 27 T | cis-1,2-Dichloroethene | 0.764 | 0.719 | 5.9 | 105 | 0.00 |
| 28 T | Bromochloromethane | 0.509 | 0.489 | 3.9 | 103 | 0.00 |
| 29 T | Tetrahydrofuran | 0.302 | 0.280 | 7.3 | 104 | 0.00 |
| 30 C | Chloroform | 1.180 | 1.110 | 5.9# | 105 | 0.00 |
| 31 T | Cyclohexane | 1.175 | 1.061 | 9.7 | 104 | 0.00 |
| 32 T | 1,1,1-Trichloroethane | 1.009 | 0.956 | 5.3 | 105 | 0.00 |
| 33 S | 1,2-Dichloroethane-d4 | 0.725 | 0.727 | -0.3 | 105 | 0.00 |
| 34 I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 105 | 0.00 |
| 35 S | Dibromofluoromethane | 0.232 | 0.222 | 4.3 | 109 | 0.00 |
| 36 T | 1,1-Dichloropropene | 0.463 | 0.439 | 5.2 | 104 | 0.00 |
| 37 T | Ethyl Acetate | 0.488 | 0.449 | 8.0 | 106 | 0.00 |
| 38 T | Carbon Tetrachloride | 0.441 | 0.419 | 5.0 | 104 | 0.00 |
| 39 T | Methylcyclohexane | 0.551 | 0.506 | 8.2 | 102 | 0.00 |
| 40 TM | Benzene | 1.485 | 1.401 | 5.7 | 105 | 0.00 |
| 41 T | Methacrylonitrile | 0.283 | 0.260 | 8.1 | 104 | 0.00 |
| 42 TM | 1,2-Dichloroethane | 0.474 | 0.450 | 5.1 | 107 | 0.00 |
| 43 T | Isopropyl Acetate | 1.177 | 0.851 | 27.7# | 103 | 0.00 |
| 44 TM | Trichloroethene | 0.352 | 0.334 | 5.1 | 104 | 0.00 |
| 45 C | 1,2-Dichloropropane | 0.364 | 0.344 | 5.5# | 104 | 0.00 |
| 46 T | Dibromomethane | 0.232 | 0.226 | 2.6 | 105 | 0.00 |
| 47 T | Bromodichloromethane | 0.500 | 0.477 | 4.6 | 106 | 0.00 |
| 48 T | Methyl methacrylate | 0.429 | 0.390 | 9.1 | 104 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041525\
 Data File : VN086284.D
 Acq On : 15 Apr 2025 15:30
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN041525

Quant Time: Apr 16 04:30:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 04:19:23 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|------|-------|----------|
| 49 T | 1,4-Dioxane | 0.007 | 0.007 | 0.0 | 110 | 0.00 |
| 50 S | Toluene-d8 | 1.240 | 1.246 | -0.5 | 105 | 0.00 |
| 51 T | 4-Methyl-2-Pentanone | 0.500 | 0.476 | 4.8 | 104 | 0.00 |
| 52 CM | Toluene | 0.927 | 0.879 | 5.2# | 104 | 0.00 |
| 53 T | t-1,3-Dichloropropene | 0.558 | 0.540 | 3.2 | 104 | 0.00 |
| 54 T | cis-1,3-Dichloropropene | 0.613 | 0.576 | 6.0 | 105 | 0.00 |
| 55 T | 1,1,2-Trichloroethane | 0.333 | 0.313 | 6.0 | 103 | 0.00 |
| 56 T | Ethyl methacrylate | 0.613 | 0.581 | 5.2 | 106 | 0.00 |
| 57 T | 1,3-Dichloropropane | 0.592 | 0.565 | 4.6 | 105 | 0.00 |
| 58 T | 2-Chloroethyl Vinyl ether | 0.291 | 0.281 | 3.4 | 103 | 0.00 |
| 59 T | 2-Hexanone | 0.371 | 0.349 | 5.9 | 103 | 0.00 |
| 60 T | Dibromochloromethane | 0.366 | 0.350 | 4.4 | 104 | 0.00 |
| 61 T | 1,2-Dibromoethane | 0.336 | 0.321 | 4.5 | 104 | 0.00 |
| 62 S | 4-Bromofluorobenzene | 0.452 | 0.452 | 0.0 | 104 | 0.00 |
| 63 I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 105 | 0.00 |
| 64 T | Tetrachloroethene | 0.385 | 0.365 | 5.2 | 103 | 0.00 |
| 65 PM | Chlorobenzene | 1.116 | 1.043 | 6.5 | 104 | 0.00 |
| 66 T | 1,1,1,2-Tetrachloroethane | 0.368 | 0.348 | 5.4 | 105 | 0.00 |
| 67 C | Ethyl Benzene | 2.014 | 1.901 | 5.6# | 104 | 0.00 |
| 68 T | m/p-Xylenes | 0.754 | 0.717 | 4.9 | 103 | 0.00 |
| 69 T | o-Xylene | 0.746 | 0.702 | 5.9 | 103 | 0.00 |
| 70 T | Styrene | 1.243 | 1.197 | 3.7 | 103 | 0.00 |
| 71 P | Bromoform | 0.277 | 0.264 | 4.7 | 106 | 0.00 |
| 72 I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 100 | 0.00 |
| 73 T | Isopropylbenzene | 4.090 | 3.839 | 6.1 | 103 | 0.00 |
| 74 T | N-amyl acetate | 2.036 | 1.842 | 9.5 | 104 | 0.00 |
| 75 P | 1,1,2,2-Tetrachloroethane | 1.176 | 1.070 | 9.0 | 103 | 0.00 |
| 76 T | 1,2,3-Trichloropropane | 1.180 | 1.078 | 8.6 | 104 | 0.00 |
| 77 T | Bromobenzene | 0.906 | 0.867 | 4.3 | 102 | 0.00 |
| 78 T | n-propylbenzene | 4.820 | 4.571 | 5.2 | 102 | 0.00 |
| 79 T | 2-Chlorotoluene | 3.016 | 2.836 | 6.0 | 103 | 0.00 |
| 80 T | 1,3,5-Trimethylbenzene | 3.348 | 3.163 | 5.5 | 103 | 0.00 |
| 81 T | trans-1,4-Dichloro-2-butene | 0.491 | 0.488 | 0.6 | 106 | 0.00 |
| 82 T | 4-Chlorotoluene | 2.996 | 2.849 | 4.9 | 102 | 0.00 |
| 83 T | tert-Butylbenzene | 2.901 | 2.655 | 8.5 | 102 | 0.00 |
| 84 T | 1,2,4-Trimethylbenzene | 3.408 | 3.226 | 5.3 | 102 | 0.00 |
| 85 T | sec-Butylbenzene | 4.023 | 3.739 | 7.1 | 99 | 0.00 |
| 86 T | p-Isopropyltoluene | 3.316 | 3.144 | 5.2 | 100 | 0.00 |
| 87 T | 1,3-Dichlorobenzene | 1.704 | 1.601 | 6.0 | 100 | 0.00 |
| 88 T | 1,4-Dichlorobenzene | 1.716 | 1.624 | 5.4 | 101 | 0.00 |
| 89 T | n-Butylbenzene | 2.939 | 2.774 | 5.6 | 98 | 0.00 |
| 90 T | Hexachloroethane | 0.558 | 0.531 | 4.8 | 103 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 1.652 | 1.571 | 4.9 | 101 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.237 | 0.228 | 3.8 | 103 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 0.791 | 0.757 | 4.3 | 99 | 0.00 |
| 94 T | Hexachlorobutadiene | 0.299 | 0.276 | 7.7 | 99 | 0.00 |
| 95 T | Naphthalene | 2.804 | 2.714 | 3.2 | 102 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041525\
Data File : VN086284.D
Acq On : 15 Apr 2025 15:30
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN041525

Quant Time: Apr 16 04:30:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 16 04:19:23 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|-----------------------------|-------|-------|------|-------|----------|
| 96 T 1,2,3-Trichlorobenzene | 0.749 | 0.709 | 5.3 | 100 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041525\
 Data File : VN086284.D
 Acq On : 15 Apr 2025 15:30
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN041525

Quant Time: Apr 16 04:30:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 04:19:23 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|-------|-----------------------------|---------|---------|------|-------|----------|
| 1 I | Pentafluorobenzene | 50.000 | 50.000 | 0.0 | 104 | 0.00 |
| 2 T | Dichlorodifluoromethane | 50.000 | 50.220 | -0.4 | 105 | 0.00 |
| 3 P | Chloromethane | 50.000 | 46.321 | 7.4 | 110 | 0.00 |
| 4 C | Vinyl Chloride | 50.000 | 48.040 | 3.9# | 104 | 0.00 |
| 5 T | Bromomethane | 50.000 | 51.662 | -3.3 | 112 | 0.00 |
| 6 T | Chloroethane | 50.000 | 46.557 | 6.9 | 107 | 0.00 |
| 7 T | Trichlorofluoromethane | 50.000 | 48.030 | 3.9 | 106 | 0.00 |
| 8 T | Diethyl Ether | 50.000 | 47.564 | 4.9 | 105 | 0.00 |
| 9 T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 48.357 | 3.3 | 106 | 0.00 |
| 10 T | Methyl Iodide | 50.000 | 52.806 | -5.6 | 111 | 0.00 |
| 11 T | Tert butyl alcohol | 250.000 | 233.586 | 6.6 | 104 | 0.00 |
| 12 CM | 1,1-Dichloroethene | 50.000 | 47.278 | 5.4# | 105 | 0.00 |
| 13 T | Acrolein | 250.000 | 251.743 | -0.7 | 106 | 0.00 |
| 14 T | Allyl chloride | 50.000 | 45.280 | 9.4 | 106 | 0.00 |
| 15 T | Acrylonitrile | 250.000 | 244.312 | 2.3 | 105 | 0.00 |
| 16 T | Acetone | 250.000 | 254.646 | -1.9 | 106 | 0.00 |
| 17 T | Carbon Disulfide | 50.000 | 43.983 | 12.0 | 104 | 0.00 |
| 18 T | Methyl Acetate | 50.000 | 45.586 | 8.8 | 106 | 0.00 |
| 19 T | Methyl tert-butyl Ether | 50.000 | 47.117 | 5.8 | 106 | 0.00 |
| 20 T | Methylene Chloride | 50.000 | 46.740 | 6.5 | 105 | 0.00 |
| 21 T | trans-1,2-Dichloroethene | 50.000 | 46.960 | 6.1 | 105 | 0.00 |
| 22 T | Diisopropyl ether | 50.000 | 46.426 | 7.1 | 104 | 0.00 |
| 23 T | Vinyl Acetate | 250.000 | 234.680 | 6.1 | 105 | 0.00 |
| 24 P | 1,1-Dichloroethane | 50.000 | 47.277 | 5.4 | 104 | 0.00 |
| 25 T | 2-Butanone | 250.000 | 238.732 | 4.5 | 106 | 0.00 |
| 26 T | 2,2-Dichloropropane | 50.000 | 46.721 | 6.6 | 106 | 0.00 |
| 27 T | cis-1,2-Dichloroethene | 50.000 | 47.105 | 5.8 | 105 | 0.00 |
| 28 T | Bromochloromethane | 50.000 | 48.044 | 3.9 | 103 | 0.00 |
| 29 T | Tetrahydrofuran | 250.000 | 232.296 | 7.1 | 104 | 0.00 |
| 30 C | Chloroform | 50.000 | 47.047 | 5.9# | 105 | 0.00 |
| 31 T | Cyclohexane | 50.000 | 45.162 | 9.7 | 104 | 0.00 |
| 32 T | 1,1,1-Trichloroethane | 50.000 | 47.385 | 5.2 | 105 | 0.00 |
| 33 S | 1,2-Dichloroethane-d4 | 50.000 | 50.114 | -0.2 | 105 | 0.00 |
| 34 I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 105 | 0.00 |
| 35 S | Dibromofluoromethane | 50.000 | 47.865 | 4.3 | 109 | 0.00 |
| 36 T | 1,1-Dichloropropene | 50.000 | 47.382 | 5.2 | 104 | 0.00 |
| 37 T | Ethyl Acetate | 50.000 | 45.984 | 8.0 | 106 | 0.00 |
| 38 T | Carbon Tetrachloride | 50.000 | 47.475 | 5.0 | 104 | 0.00 |
| 39 T | Methylcyclohexane | 50.000 | 45.902 | 8.2 | 102 | 0.00 |
| 40 TM | Benzene | 50.000 | 47.168 | 5.7 | 105 | 0.00 |
| 41 T | Methacrylonitrile | 50.000 | 45.892 | 8.2 | 104 | 0.00 |
| 42 TM | 1,2-Dichloroethane | 50.000 | 47.496 | 5.0 | 107 | 0.00 |
| 43 T | Isopropyl Acetate | 50.000 | 48.649 | 2.7 | 103 | 0.00 |
| 44 TM | Trichloroethene | 50.000 | 47.403 | 5.2 | 104 | 0.00 |
| 45 C | 1,2-Dichloropropane | 50.000 | 47.302 | 5.4# | 104 | 0.00 |
| 46 T | Dibromomethane | 50.000 | 48.772 | 2.5 | 105 | 0.00 |
| 47 T | Bromodichloromethane | 50.000 | 47.682 | 4.6 | 106 | 0.00 |
| 48 T | Methyl methacrylate | 50.000 | 45.546 | 8.9 | 104 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041525\
 Data File : VN086284.D
 Acq On : 15 Apr 2025 15:30
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN041525

Quant Time: Apr 16 04:30:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 04:19:23 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|-------|-----------------------------|----------|---------|------|-------|----------|
| 49 T | 1,4-Dioxane | 1000.000 | 929.893 | 7.0 | 110 | 0.00 |
| 50 S | Toluene-d8 | 50.000 | 50.251 | -0.5 | 105 | 0.00 |
| 51 T | 4-Methyl-2-Pentanone | 250.000 | 238.220 | 4.7 | 104 | 0.00 |
| 52 CM | Toluene | 50.000 | 47.453 | 5.1# | 104 | 0.00 |
| 53 T | t-1,3-Dichloropropene | 50.000 | 48.360 | 3.3 | 104 | 0.00 |
| 54 T | cis-1,3-Dichloropropene | 50.000 | 46.923 | 6.2 | 105 | 0.00 |
| 55 T | 1,1,2-Trichloroethane | 50.000 | 46.911 | 6.2 | 103 | 0.00 |
| 56 T | Ethyl methacrylate | 50.000 | 47.414 | 5.2 | 106 | 0.00 |
| 57 T | 1,3-Dichloropropane | 50.000 | 47.770 | 4.5 | 105 | 0.00 |
| 58 T | 2-Chloroethyl Vinyl ether | 250.000 | 241.924 | 3.2 | 103 | 0.00 |
| 59 T | 2-Hexanone | 250.000 | 235.364 | 5.9 | 103 | 0.00 |
| 60 T | Dibromochloromethane | 50.000 | 47.767 | 4.5 | 104 | 0.00 |
| 61 T | 1,2-Dibromoethane | 50.000 | 47.777 | 4.4 | 104 | 0.00 |
| 62 S | 4-Bromofluorobenzene | 50.000 | 49.950 | 0.1 | 104 | 0.00 |
| 63 I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 105 | 0.00 |
| 64 T | Tetrachloroethene | 50.000 | 47.439 | 5.1 | 103 | 0.00 |
| 65 PM | Chlorobenzene | 50.000 | 46.735 | 6.5 | 104 | 0.00 |
| 66 T | 1,1,1,2-Tetrachloroethane | 50.000 | 47.238 | 5.5 | 105 | 0.00 |
| 67 C | Ethyl Benzene | 50.000 | 47.196 | 5.6# | 104 | 0.00 |
| 68 T | m/p-Xylenes | 100.000 | 94.994 | 5.0 | 103 | 0.00 |
| 69 T | o-Xylene | 50.000 | 47.043 | 5.9 | 103 | 0.00 |
| 70 T | Styrene | 50.000 | 48.138 | 3.7 | 103 | 0.00 |
| 71 P | Bromoform | 50.000 | 47.634 | 4.7 | 106 | 0.00 |
| 72 I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 100 | 0.00 |
| 73 T | Isopropylbenzene | 50.000 | 46.930 | 6.1 | 103 | 0.00 |
| 74 T | N-amyl acetate | 50.000 | 45.241 | 9.5 | 104 | 0.00 |
| 75 P | 1,1,2,2-Tetrachloroethane | 50.000 | 45.501 | 9.0 | 103 | 0.00 |
| 76 T | 1,2,3-Trichloropropane | 50.000 | 45.680 | 8.6 | 104 | 0.00 |
| 77 T | Bromobenzene | 50.000 | 47.860 | 4.3 | 102 | 0.00 |
| 78 T | n-propylbenzene | 50.000 | 47.420 | 5.2 | 102 | 0.00 |
| 79 T | 2-Chlorotoluene | 50.000 | 47.012 | 6.0 | 103 | 0.00 |
| 80 T | 1,3,5-Trimethylbenzene | 50.000 | 47.241 | 5.5 | 103 | 0.00 |
| 81 T | trans-1,4-Dichloro-2-butene | 50.000 | 49.639 | 0.7 | 106 | 0.00 |
| 82 T | 4-Chlorotoluene | 50.000 | 47.552 | 4.9 | 102 | 0.00 |
| 83 T | tert-Butylbenzene | 50.000 | 45.757 | 8.5 | 102 | 0.00 |
| 84 T | 1,2,4-Trimethylbenzene | 50.000 | 47.342 | 5.3 | 102 | 0.00 |
| 85 T | sec-Butylbenzene | 50.000 | 46.468 | 7.1 | 99 | 0.00 |
| 86 T | p-Isopropyltoluene | 50.000 | 47.395 | 5.2 | 100 | 0.00 |
| 87 T | 1,3-Dichlorobenzene | 50.000 | 46.983 | 6.0 | 100 | 0.00 |
| 88 T | 1,4-Dichlorobenzene | 50.000 | 47.319 | 5.4 | 101 | 0.00 |
| 89 T | n-Butylbenzene | 50.000 | 47.178 | 5.6 | 98 | 0.00 |
| 90 T | Hexachloroethane | 50.000 | 47.634 | 4.7 | 103 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 50.000 | 47.545 | 4.9 | 101 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 48.017 | 4.0 | 103 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 50.000 | 47.854 | 4.3 | 99 | 0.00 |
| 94 T | Hexachlorobutadiene | 50.000 | 46.301 | 7.4 | 99 | 0.00 |
| 95 T | Naphthalene | 50.000 | 48.408 | 3.2 | 102 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041525\
Data File : VN086284.D
Acq On : 15 Apr 2025 15:30
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN041525

Quant Time: Apr 16 04:30:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 16 04:19:23 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|-----------------------------|--------|--------|------|-------|----------|
| 96 T 1,2,3-Trichlorobenzene | 50.000 | 47.314 | 5.4 | 100 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6



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

VOLATILE CONTINUING CALIBRATION CHECK

| | | | | | |
|----------------|------------|------------------------|------------|------------|-------|
| Lab Name: | CHEMTECH | Contract: | JAC005 | | |
| Lab Code: | CHEM | Case No.: | Q1812 | SDG No.: | Q1812 |
| Instrument ID: | MSVOA_N | Calibration Date/Time: | 04/16/2025 | 09:14 | |
| Lab File ID: | VN086286.D | Init. Calib. Date(s): | 04/15/2025 | 04/15/2025 | |
| Heated Purge: | (Y/N) N | Init. Calib. Time(s): | 11:29 | 14:29 | |
| GC Column: | RXI-624 | ID: | 0.25 | (mm) | |

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|--------------------------------|-------|--------|---------|--------|-------|
| Dichlorodifluoromethane | 0.593 | 0.593 | | 0 | 20 |
| Chloromethane | 0.861 | 0.798 | 0.1 | -7.32 | 20 |
| Vinyl Chloride | 0.822 | 0.791 | | -3.77 | 20 |
| Bromomethane | 0.370 | 0.377 | | 1.89 | 20 |
| Chloroethane | 0.550 | 0.507 | | -7.82 | 20 |
| Trichlorofluoromethane | 0.911 | 0.878 | | -3.62 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.551 | 0.537 | | -2.54 | 20 |
| 1,1-Dichloroethene | 0.588 | 0.555 | | -5.61 | 20 |
| Acetone | 0.290 | 0.254 | | -12.41 | 20 |
| Carbon Disulfide | 1.762 | 1.548 | | -12.15 | 20 |
| Methyl tert-butyl Ether | 2.163 | 2.003 | | -7.4 | 20 |
| Methyl Acetate | 0.870 | 0.791 | | -9.08 | 20 |
| Methylene Chloride | 0.670 | 0.625 | | -6.72 | 20 |
| trans-1,2-Dichloroethene | 0.615 | 0.577 | | -6.18 | 20 |
| 1,1-Dichloroethane | 1.201 | 1.141 | 0.1 | -5 | 20 |
| Cyclohexane | 1.175 | 1.068 | | -9.11 | 20 |
| 2-Butanone | 0.451 | 0.427 | | -5.32 | 20 |
| Carbon Tetrachloride | 0.441 | 0.430 | | -2.49 | 20 |
| cis-1,2-Dichloroethene | 0.764 | 0.706 | | -7.59 | 20 |
| Bromochloromethane | 0.509 | 0.487 | | -4.32 | 20 |
| Chloroform | 1.180 | 1.101 | | -6.7 | 20 |
| 1,1,1-Trichloroethane | 1.009 | 0.948 | | -6.05 | 20 |
| Methylcyclohexane | 0.551 | 0.536 | | -2.72 | 20 |
| Benzene | 1.485 | 1.423 | | -4.18 | 20 |
| 1,2-Dichloroethane | 0.474 | 0.454 | | -4.22 | 20 |
| Trichloroethene | 0.352 | 0.351 | | -0.28 | 20 |
| 1,2-Dichloropropane | 0.364 | 0.350 | | -3.85 | 20 |
| Bromodichloromethane | 0.500 | 0.486 | | -2.8 | 20 |
| 4-Methyl-2-Pentanone | 0.500 | 0.480 | | -4 | 20 |
| Toluene | 0.927 | 0.895 | | -3.45 | 20 |
| t-1,3-Dichloropropene | 0.558 | 0.554 | | -0.72 | 20 |
| cis-1,3-Dichloropropene | 0.613 | 0.590 | | -3.75 | 20 |
| 1,1,2-Trichloroethane | 0.333 | 0.318 | | -4.51 | 20 |
| 2-Hexanone | 0.371 | 0.358 | | -3.5 | 20 |
| Dibromochloromethane | 0.366 | 0.357 | | -2.46 | 20 |
| 1,2-Dibromoethane | 0.336 | 0.324 | | -3.57 | 20 |
| Tetrachloroethene | 0.385 | 0.380 | | -1.3 | 20 |
| Chlorobenzene | 1.116 | 1.063 | 0.3 | -4.75 | 20 |

All other compounds must meet a minimum RRF of 0.010.

RRF of 1,4-Dioxane = Value should be divide by 1000.



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

VOLATILE CONTINUING CALIBRATION CHECK

| | | | | | | | |
|----------------|------------|---|--------|----------|-------|----------|-------|
| Lab Name: | CHEMTECH | Contract: | JAC005 | | | | |
| Lab Code: | CHEM | Case No.: | Q1812 | SAS No.: | Q1812 | SDG No.: | Q1812 |
| Instrument ID: | MSVOA_N | Calibration Date/Time: 04/16/2025 09:14 | | | | | |
| Lab File ID: | VN086286.D | Init. Calib. Date(s): 04/15/2025 04/15/2025 | | | | | |
| Heated Purge: | (Y/N) N | Init. Calib. Time(s): 11:29 14:29 | | | | | |
| GC Column: | RXI-624 | ID: | 0.25 | (mm) | | | |

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|-----------------------------|-------|--------|---------|--------|-------|
| Ethyl Benzene | 2.014 | 1.936 | | -3.87 | 20 |
| m/p-Xylenes | 0.754 | 0.733 | | -2.79 | 20 |
| o-Xylene | 0.746 | 0.712 | | -4.56 | 20 |
| Styrene | 1.243 | 1.220 | | -1.85 | 20 |
| Bromoform | 0.277 | 0.267 | 0.1 | -3.61 | 20 |
| Isopropylbenzene | 4.090 | 3.825 | | -6.48 | 20 |
| 1,1,2,2-Tetrachloroethane | 1.176 | 1.032 | 0.3 | -12.24 | 20 |
| 1,3-Dichlorobenzene | 1.704 | 1.646 | | -3.4 | 20 |
| 1,4-Dichlorobenzene | 1.716 | 1.647 | | -4.02 | 20 |
| 1,2-Dichlorobenzene | 1.652 | 1.575 | | -4.66 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.237 | 0.229 | | -3.38 | 20 |
| 1,2,4-Trichlorobenzene | 0.791 | 0.788 | | -0.38 | 20 |
| 1,2,3-Trichlorobenzene | 0.749 | 0.719 | | -4.01 | 20 |
| 1,2-Dichloroethane-d4 | 0.725 | 0.697 | | -3.86 | 20 |
| Dibromofluoromethane | 0.232 | 0.214 | | -7.76 | 20 |
| Toluene-d8 | 1.240 | 1.219 | | -1.69 | 20 |
| 4-Bromofluorobenzene | 0.452 | 0.447 | | -1.11 | 20 |

All other compounds must meet a minimum RRF of 0.010.
 RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
 Data File : VN086286.D
 Acq On : 16 Apr 2025 09:14
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Quant Time: Apr 17 03:04:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 04:19:23 2025
 Response via : Initial Calibration

**Manual Integrations
APPROVED**

Reviewed By :John Carlane 04/17/2025
 Supervised By :Mahesh Dadoda 04/17/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|------------------------------------|----------------|------|----------|---------|---------|----------|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 8.224 | 168 | 235673 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 9.094 | 114 | 430893 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.865 | 117 | 383563 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.788 | 152 | 177295 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.577 | 65 | 164281 | 48.071 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery | = | 96.140% | |
| 35) Dibromofluoromethane | 8.165 | 113 | 92402 | 46.205 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery | = | 92.400% | |
| 50) Toluene-d8 | 10.565 | 98 | 525438 | 49.161 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery | = | 98.320% | |
| 62) 4-Bromofluorobenzene | 12.847 | 95 | 192478 | 49.374 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery | = | 98.740% | |
| Target Compounds | | | | | | |
| | | | | Qvalue | | |
| 2) Dichlorodifluoromethane | 2.124 | 85 | 139730 | 50.015 | ug/l | 99 |
| 3) Chloromethane | 2.359 | 50 | 187952 | 46.291 | ug/l | 99 |
| 4) Vinyl Chloride | 2.512 | 62 | 186531 | 48.142 | ug/l | 99 |
| 5) Bromomethane | 2.953 | 94 | 88918 | 51.019 | ug/l | 96 |
| 6) Chloroethane | 3.118 | 64 | 119531 | 46.095 | ug/l | 99 |
| 7) Trichlorofluoromethane | 3.500 | 101 | 206871 | 48.201 | ug/l | 97 |
| 8) Diethyl Ether | 3.959 | 74 | 88542 | 47.257 | ug/l | 97 |
| 9) 1,1,2-Trichlorotrifluo... | 4.371 | 101 | 126479 | 48.715 | ug/l | 99 |
| 10) Methyl Iodide | 4.583 | 142 | 152531 | 53.436 | ug/l | 99 |
| 11) Tert butyl alcohol | 5.512 | 59 | 150071 | 240.673 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 4.342 | 96 | 130797 | 47.154 | ug/l | 94 |
| 13) Acrolein | 4.177 | 56 | 76094 | 262.459 | ug/l | 96 |
| 14) Allyl chloride | 5.018 | 41 | 225300 | 45.690 | ug/l | 99 |
| 15) Acrylonitrile | 5.712 | 53 | 371338 | 240.904 | ug/l | 100 |
| 16) Acetone | 4.418 | 43 | 299320 | 253.403 | ug/l | 100 |
| 17) Carbon Disulfide | 4.712 | 76 | 364873 | 43.931 | ug/l | 99 |
| 18) Methyl Acetate | 5.018 | 43 | 186352 | 45.427 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 5.788 | 73 | 472153 | 46.306 | ug/l | 100 |
| 20) Methylene Chloride | 5.277 | 84 | 147320 | 46.630 | ug/l | 98 |
| 21) trans-1,2-Dichloroethene | 5.783 | 96 | 135959 | 46.882 | ug/l | 100 |
| 22) Diisopropyl ether | 6.665 | 45 | 498190 | 46.443 | ug/l | 99 |
| 23) Vinyl Acetate | 6.600 | 43 | 1746712 | 232.938 | ug/l | 98 |
| 24) 1,1-Dichloroethane | 6.571 | 63 | 268843 | 47.500 | ug/l | 99 |
| 25) 2-Butanone | 7.477 | 43 | 503322 | 236.612 | ug/l | 98 |
| 26) 2,2-Dichloropropane | 7.488 | 77 | 243488 | 48.048 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 7.482 | 96 | 166409 | 46.233 | ug/l | 100 |
| 28) Bromochloromethane | 7.812 | 49 | 114783 | 47.831 | ug/l | 100 |
| 29) Tetrahydrofuran | 7.835 | 42 | 330147 | 232.094 | ug/l | 99 |
| 30) Chloroform | 7.959 | 83 | 259399 | 46.656 | ug/l | 98 |
| 31) Cyclohexane | 8.253 | 56 | 251642 | 45.437 | ug/l | 99 |
| 32) 1,1,1-Trichloroethane | 8.165 | 97 | 223386 | 46.967 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 8.371 | 75 | 193287 | 48.390 | ug/l | 100 |
| 37) Ethyl Acetate | 7.553 | 43 | 193953 | 46.122 | ug/l | 98 |
| 38) Carbon Tetrachloride | 8.359 | 117 | 185182 | 48.682 | ug/l | 98 |
| 39) Methylcyclohexane | 9.600 | 83 | 230804 | 48.614 | ug/l | 99 |
| 40) Benzene | 8.600 | 78 | 613264 | 47.920 | ug/l | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
 Data File : VN086286.D
 Acq On : 16 Apr 2025 09:14
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Quant Time: Apr 17 03:04:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 04:19:23 2025
 Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :John Carlane 04/17/2025
 Supervised By :Mahesh Dadoda 04/17/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile | 7.771 | 41 | 114048 | 46.794 | ug/1 | 100 |
| 42) 1,2-Dichloroethane | 8.665 | 62 | 195800 | 47.977 | ug/1 | 100 |
| 43) Isopropyl Acetate | 8.682 | 43 | 362008 | 47.992 | ug/1 | 98 |
| 44) Trichloroethene | 9.347 | 130 | 151444 | 49.927 | ug/1 | 100 |
| 45) 1,2-Dichloropropane | 9.618 | 63 | 150667 | 48.096 | ug/1 | 98 |
| 46) Dibromomethane | 9.706 | 93 | 97743 | 48.970 | ug/1 | 99 |
| 47) Bromodichloromethane | 9.882 | 83 | 209384 | 48.571 | ug/1 | 100 |
| 48) Methyl methacrylate | 9.676 | 41 | 170133 | 46.070 | ug/1 | 99 |
| 49) 1,4-Dioxane | 9.688 | 88 | 59527 | 947.648 | ug/1 | 98 |
| 51) 4-Methyl-2-Pentanone | 10.441 | 43 | 1033728 | 240.057 | ug/1 | 99 |
| 52) Toluene | 10.623 | 92 | 385532 | 48.280 | ug/1 | 99 |
| 53) t-1,3-Dichloropropene | 10.835 | 75 | 238507 | 49.563 | ug/1 | 100 |
| 54) cis-1,3-Dichloropropene | 10.306 | 75 | 254333 | 48.119 | ug/1 | 99 |
| 55) 1,1,2-Trichloroethane | 11.012 | 97 | 137156 | 47.739 | ug/1 | 96 |
| 56) Ethyl methacrylate | 10.871 | 69 | 254512 | 48.193 | ug/1 | 99 |
| 57) 1,3-Dichloropropane | 11.159 | 76 | 246324 | 48.323 | ug/1 | 100 |
| 58) 2-Chloroethyl Vinyl ether | 10.153 | 63 | 614176 | 245.023 | ug/1 | 100 |
| 59) 2-Hexanone | 11.194 | 43 | 771609 | 241.579 | ug/1 | 100 |
| 60) Dibromochloromethane | 11.353 | 129 | 153985 | 48.808 | ug/1 | 99 |
| 61) 1,2-Dibromoethane | 11.465 | 107 | 139475 | 48.111 | ug/1 | 99 |
| 64) Tetrachloroethene | 11.100 | 164 | 145847 | 49.433 | ug/1 | 98 |
| 65) Chlorobenzene | 11.888 | 112 | 407897 | 47.653 | ug/1 | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 11.959 | 131 | 136092 | 48.194 | ug/1 | 99 |
| 67) Ethyl Benzene | 11.959 | 91 | 742623 | 48.077 | ug/1 | 99 |
| 68) m/p-Xylenes | 12.065 | 106 | 562291 | 97.152 | ug/1 | 99 |
| 69) o-Xylene | 12.394 | 106 | 272968 | 47.691 | ug/1 | 99 |
| 70) Styrene | 12.406 | 104 | 467765 | 49.048 | ug/1 | 100 |
| 71) Bromoform | 12.576 | 173 | 102569 | 48.243 | ug/1 # | 99 |
| 73) Isopropylbenzene | 12.694 | 105 | 678138 | 46.758 | ug/1 | 100 |
| 74) N-amyl acetate | 12.488 | 43 | 317872 | 44.026 | ug/1 | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.935 | 83 | 182886 | 43.857 | ug/1 | 99 |
| 76) 1,2,3-Trichloropropane | 12.988 | 75 | 188539m | 45.063 | ug/1 | |
| 77) Bromobenzene | 12.976 | 156 | 152840 | 47.562 | ug/1 | 99 |
| 78) n-propylbenzene | 13.029 | 91 | 813823 | 47.620 | ug/1 | 100 |
| 79) 2-Chlorotoluene | 13.123 | 91 | 500975 | 46.847 | ug/1 | 100 |
| 80) 1,3,5-Trimethylbenzene | 13.170 | 105 | 560090 | 47.184 | ug/1 | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.735 | 75 | 92189 | 52.918 | ug/1 | 93 |
| 82) 4-Chlorotoluene | 13.217 | 91 | 506641 | 47.693 | ug/1 | 99 |
| 83) tert-Butylbenzene | 13.435 | 119 | 467771 | 45.479 | ug/1 | 98 |
| 84) 1,2,4-Trimethylbenzene | 13.476 | 105 | 573671 | 47.478 | ug/1 | 100 |
| 85) sec-Butylbenzene | 13.611 | 105 | 679238 | 47.611 | ug/1 | 100 |
| 86) p-Isopropyltoluene | 13.729 | 119 | 571595 | 48.608 | ug/1 | 100 |
| 87) 1,3-Dichlorobenzene | 13.729 | 146 | 291794 | 48.303 | ug/1 | 99 |
| 88) 1,4-Dichlorobenzene | 13.812 | 146 | 291992 | 47.989 | ug/1 | 99 |
| 89) n-Butylbenzene | 14.053 | 91 | 513021 | 49.219 | ug/1 | 99 |
| 90) Hexachloroethane | 14.329 | 117 | 93202 | 47.120 | ug/1 | 100 |
| 91) 1,2-Dichlorobenzene | 14.106 | 146 | 279296 | 47.687 | ug/1 | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.717 | 75 | 406668 | 48.367 | ug/1 | 98 |
| 93) 1,2,4-Trichlorobenzene | 15.388 | 180 | 139704 | 49.814 | ug/1 | 99 |
| 94) Hexachlorobutadiene | 15.500 | 225 | 52193 | 49.301 | ug/1 | 99 |
| 95) Naphthalene | 15.635 | 128 | 480514 | 48.334 | ug/1 | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.835 | 180 | 127501 | 48.020 | ug/1 | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
Data File : VN086286.D
Acq On : 16 Apr 2025 09:14
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carbone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

Quant Time: Apr 17 03:04:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 16 04:19:23 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

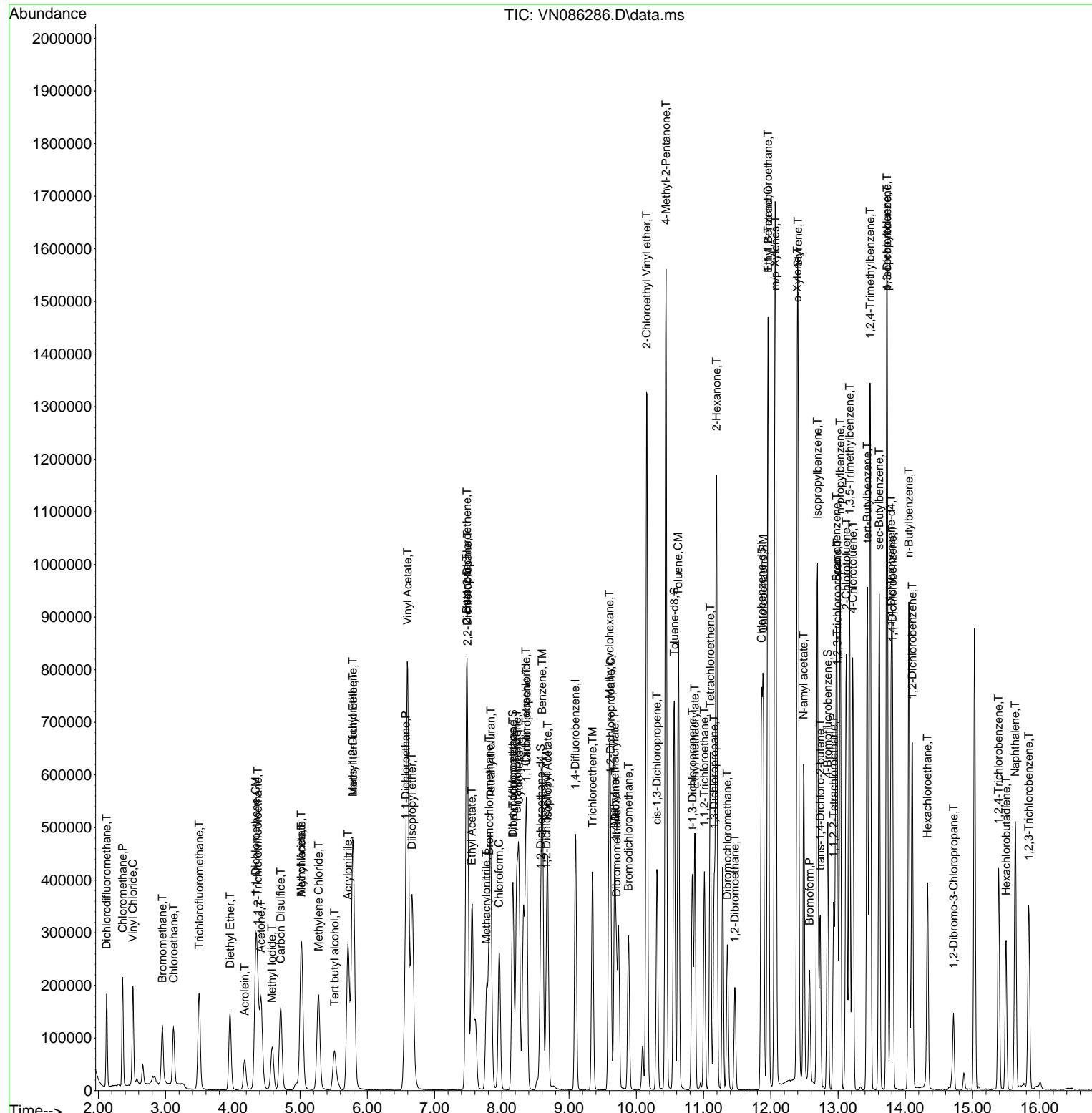
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Data File : VN086286.D
Acq On : 16 Apr 2025 09:14
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

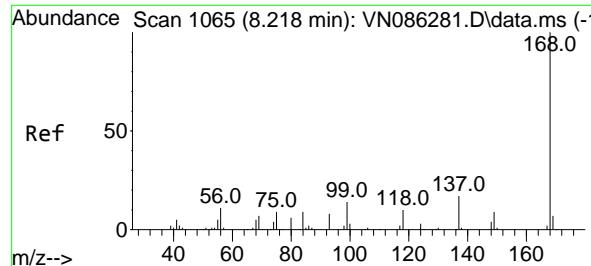
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Quant Title : SW846 8260
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Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

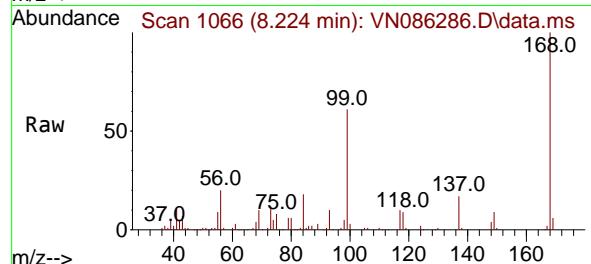
Reviewed By :John Carbone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

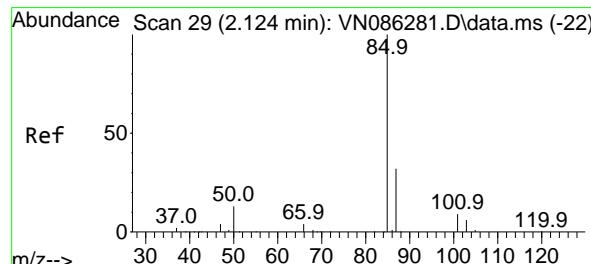
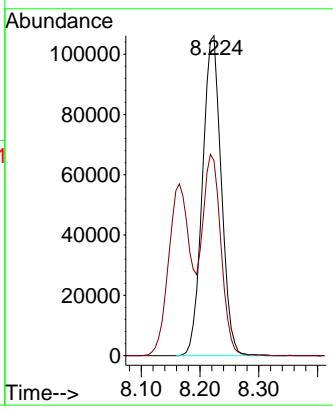
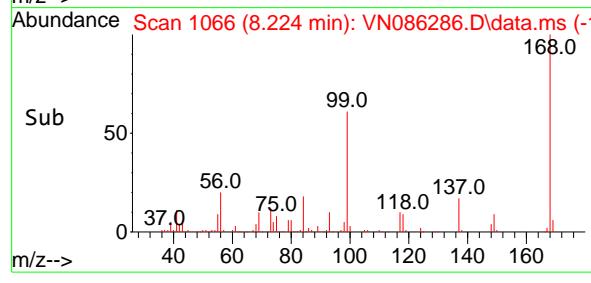
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ClientSampleId : VSTDCCC050



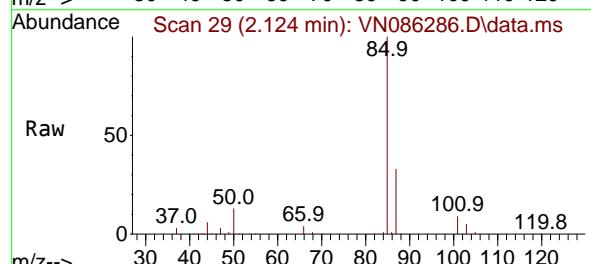
Tgt Ion:168 Resp: 23567
Ion Ratio Lower Upper
168 100
99 60.9 52.5 78.7

Manual Integrations APPROVED

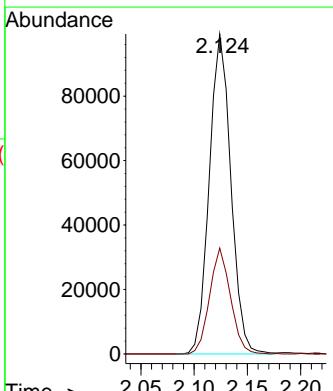
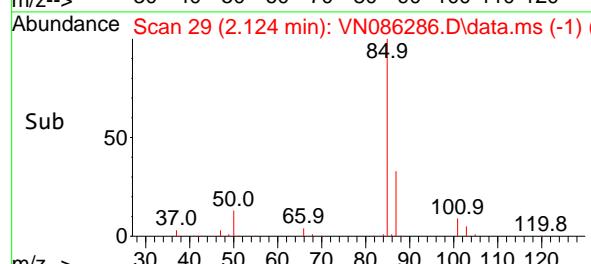
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

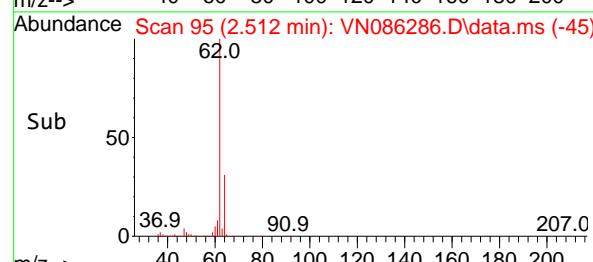
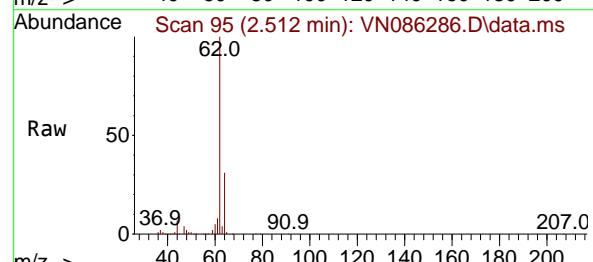
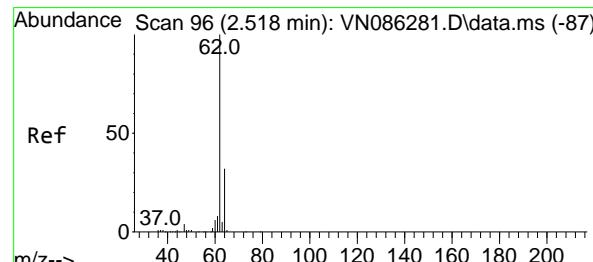
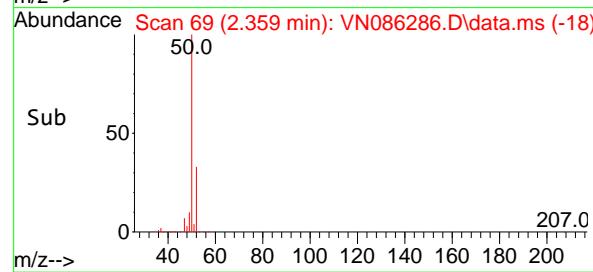
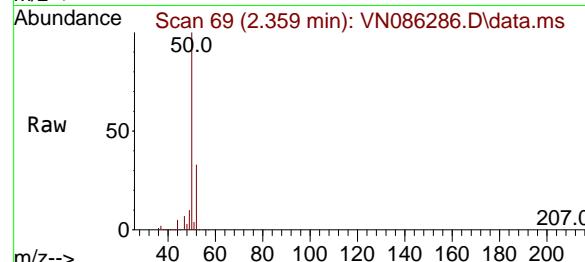
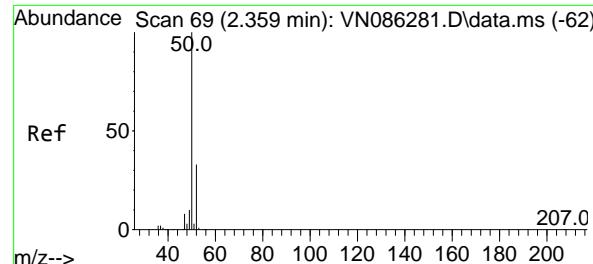


#2
Dichlorodifluoromethane
Concen: 50.015 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14



Tgt Ion: 85 Resp: 139730
Ion Ratio Lower Upper
85 100
87 33.1 16.3 48.8





#3

Chloromethane

Concen: 46.291 ug/l

RT: 2.359 min Scan# 6

Delta R.T. -0.000 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

Instrument:

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 50 Resp: 18795

Ion Ratio Lower Upper

50 100

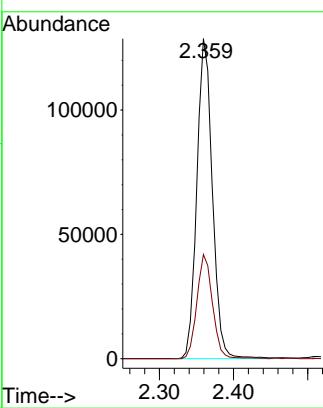
52 32.5 26.5 39.7

Manual Integrations

APPROVED

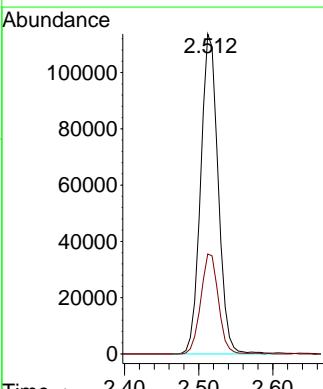
Reviewed By :John Carlone 04/17/2025

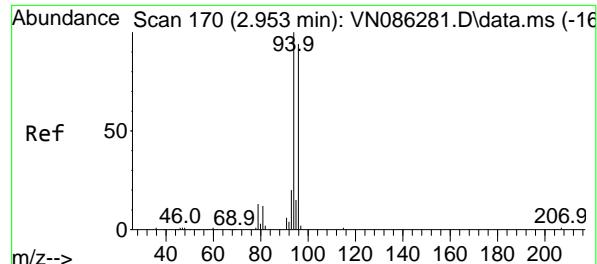
Supervised By :Mahesh Dadoda 04/17/2025



#4
Vinyl Chloride
Concen: 48.142 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.006 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

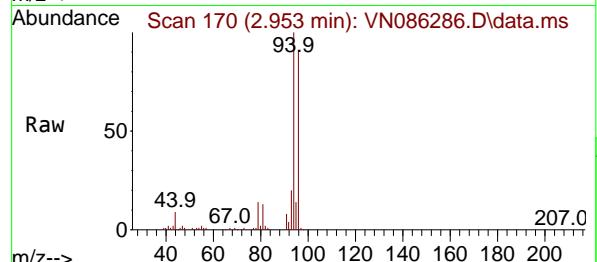
Tgt Ion: 62 Resp: 186531
Ion Ratio Lower Upper
62 100
64 31.2 25.6 38.4





#5
Bromomethane
Concen: 51.019 ug/l
RT: 2.953 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

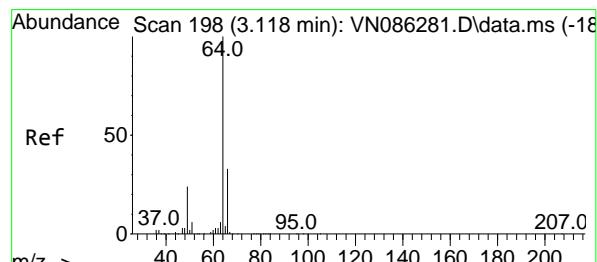
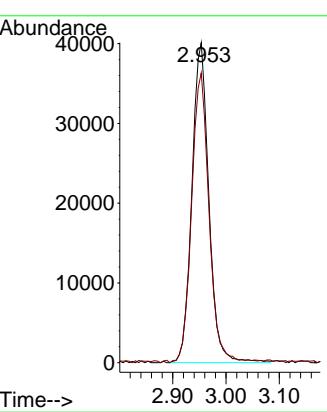
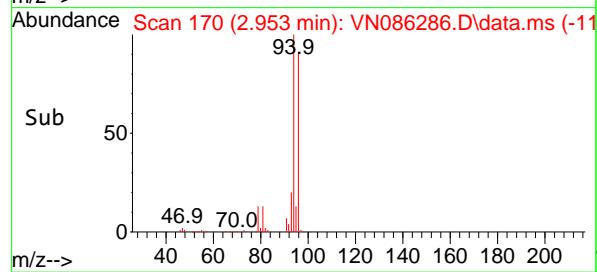
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ClientSampleId : VSTDCCC050



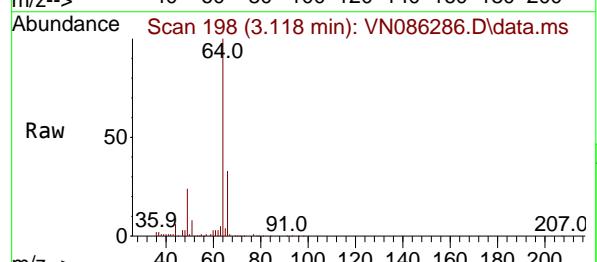
Tgt Ion: 94 Resp: 8891
Ion Ratio Lower Upper
94 100
96 90.5 75.2 112.8

Manual Integrations APPROVED

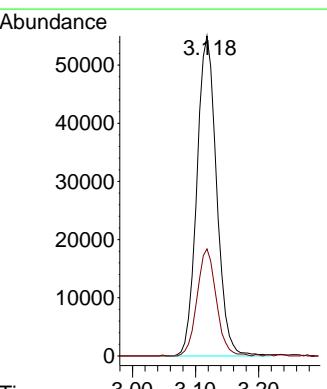
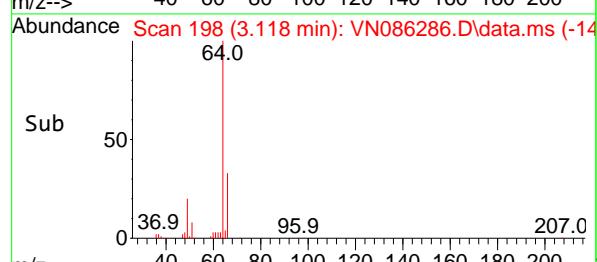
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

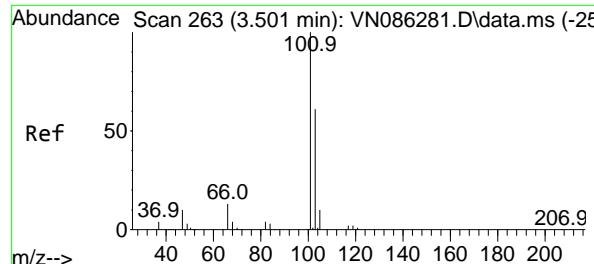


#6
Chloroethane
Concen: 46.095 ug/l
RT: 3.118 min Scan# 198
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14



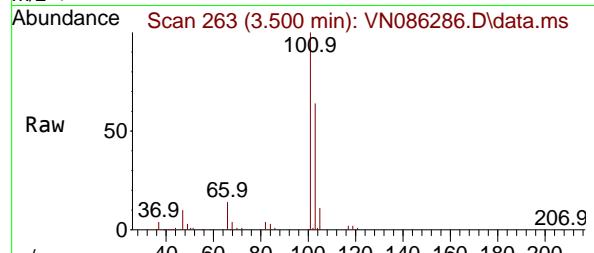
Tgt Ion: 64 Resp: 119531
Ion Ratio Lower Upper
64 100
66 33.5 26.2 39.2





#7
Trichlorofluoromethane
Concen: 48.201 ug/l
RT: 3.500 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

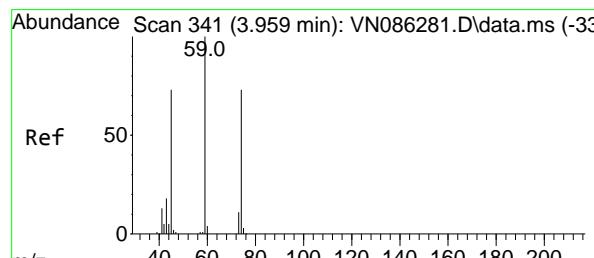
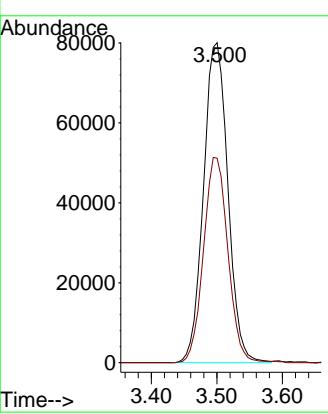
Instrument : MSVOA_N
ClientSampleId : VSTDCCC050



Tgt Ion:101 Resp: 20687:
Ion Ratio Lower Upper
101 100
103 63.9 49.2 73.8

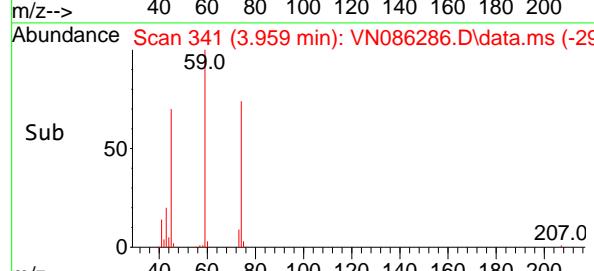
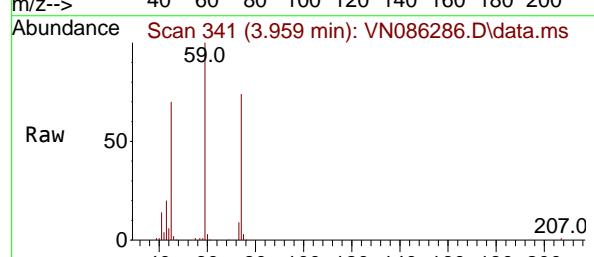
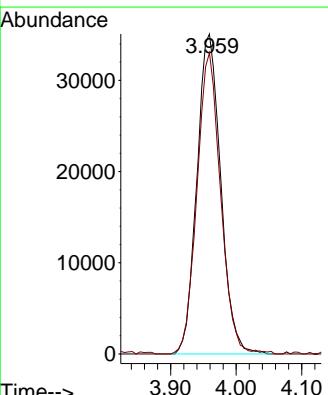
Manual Integrations APPROVED

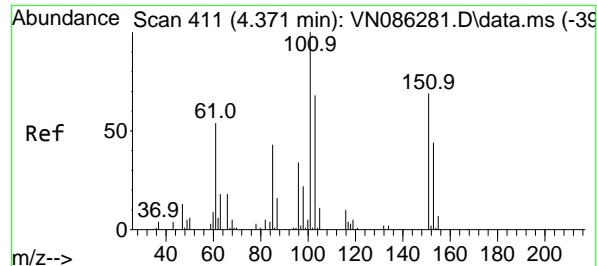
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#8
Diethyl Ether
Concen: 47.257 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

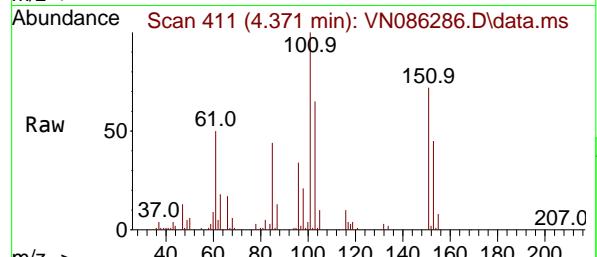
Tgt Ion: 74 Resp: 88542
Ion Ratio Lower Upper
74 100
45 93.4 48.0 144.2





#9
1,1,2-Trichlorotrifluoroethane
Concen: 48.715 ug/l
RT: 4.371 min Scan# 4
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

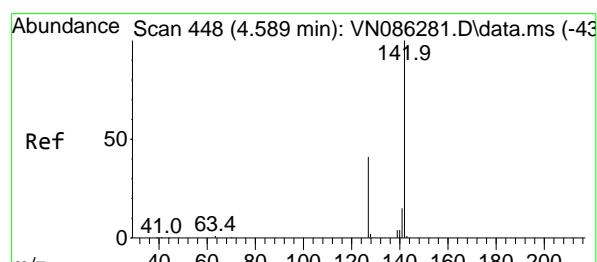
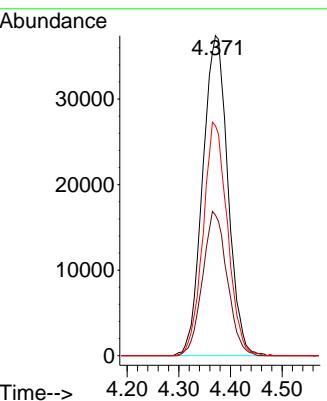
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ClientSampleId : VSTDCCC050



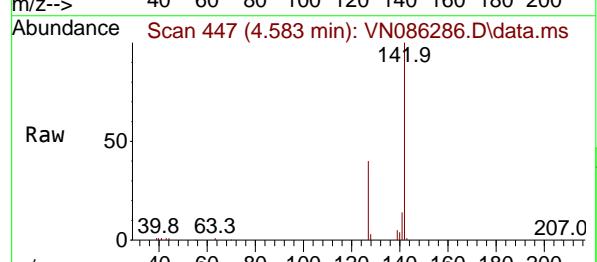
Tgt Ion:101 Resp: 126479
Ion Ratio Lower Upper
101 100
85 43.9 34.7 52.1
151 70.5 56.1 84.1

Manual Integrations APPROVED

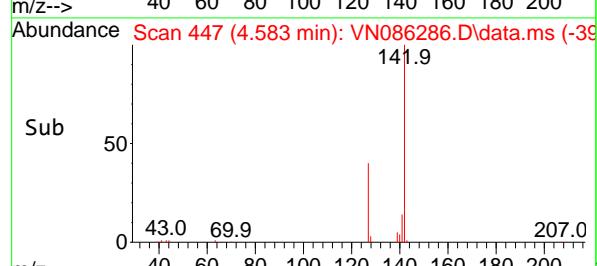
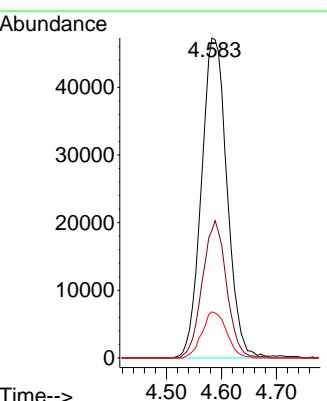
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

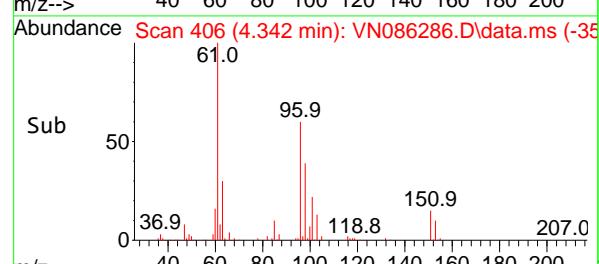
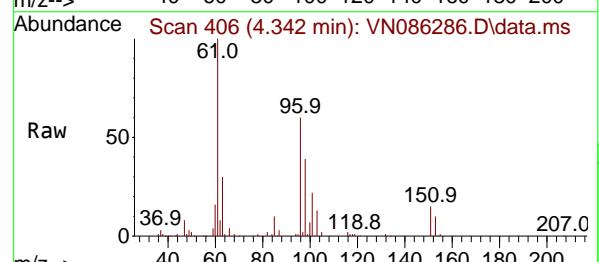
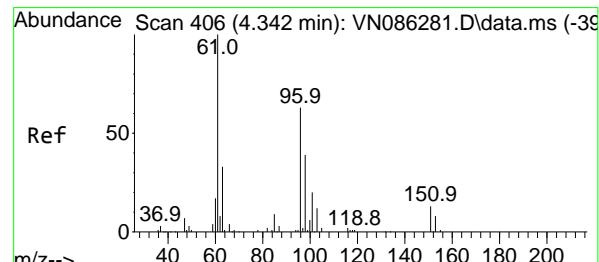
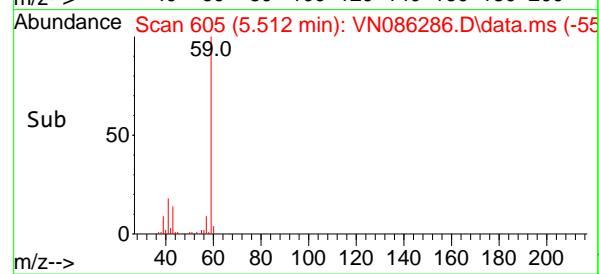
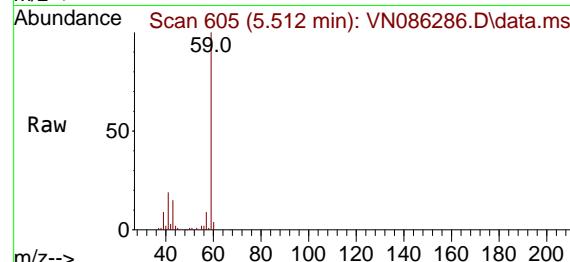
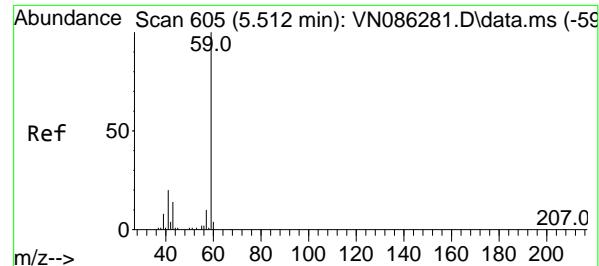


#10
Methyl Iodide
Concen: 53.436 ug/l
RT: 4.583 min Scan# 447
Delta R.T. -0.006 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14



Tgt Ion:142 Resp: 152531
Ion Ratio Lower Upper
142 100
127 39.9 32.7 49.1
141 14.4 11.7 17.5





#11

Tert butyl alcohol

Concen: 240.673 ug/l

RT: 5.512 min Scan# 6

Delta R.T. -0.000 min

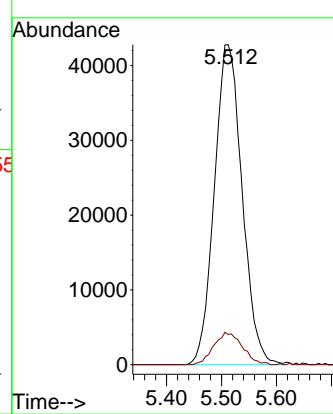
Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

Instrument : MSVOA_N
ClientSampleId : VSTDCCC050

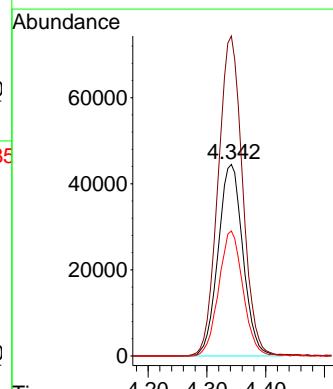
Manual Integrations APPROVED

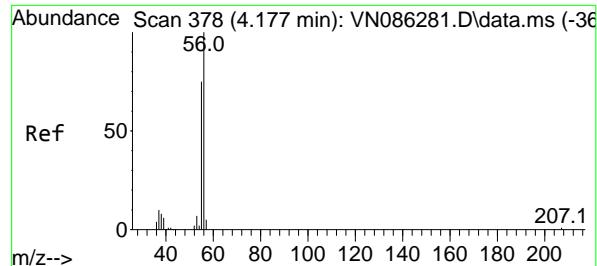
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#12
1,1-Dichloroethene
Concen: 47.154 ug/l
RT: 4.342 min Scan# 406
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

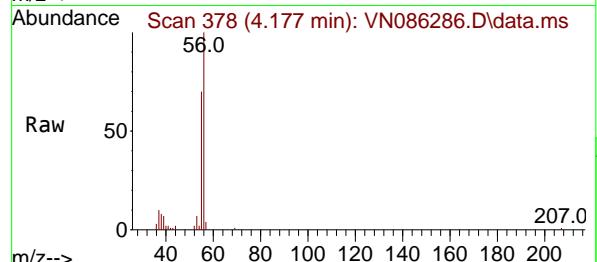
Tgt Ion: 96 Resp: 130797
Ion Ratio Lower Upper
96 100
61 167.0 126.6 189.8
98 65.2 49.6 74.4





#13
Acrolein
Concen: 262.459 ug/l
RT: 4.177 min Scan# 3
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

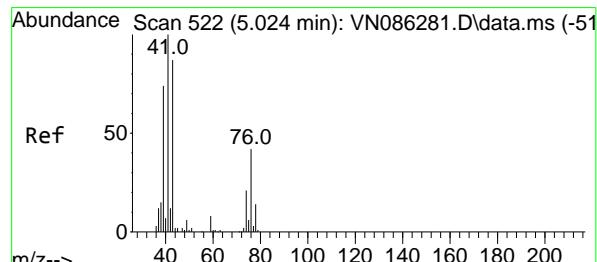
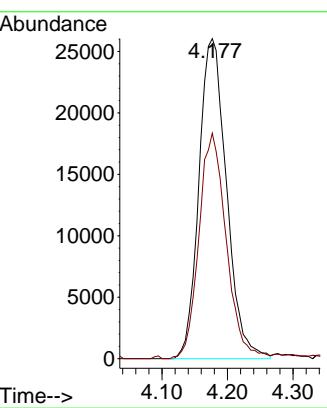
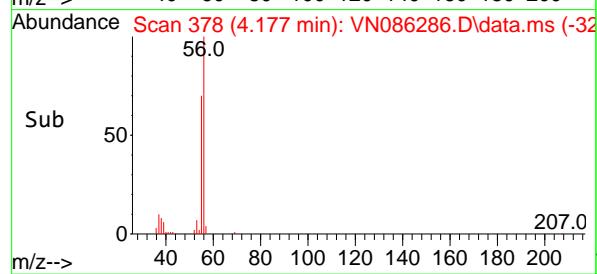
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 56 Resp: 7609
Ion Ratio Lower Upper
56 100
55 69.6 58.5 87.7

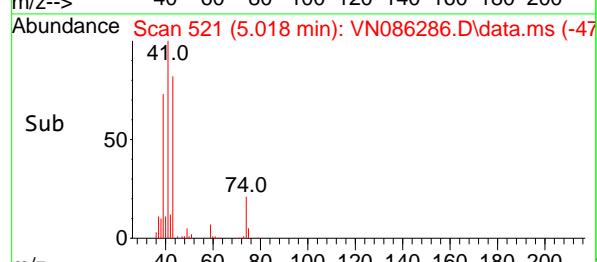
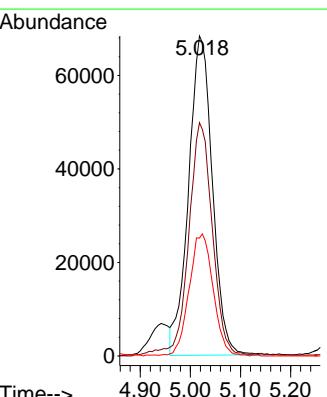
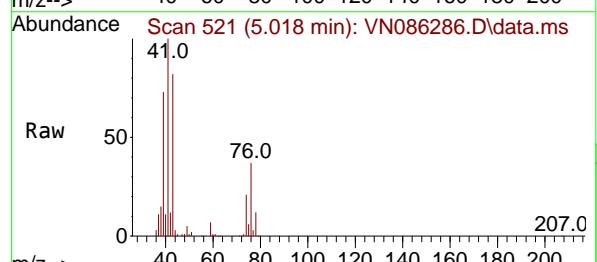
Manual Integrations APPROVED

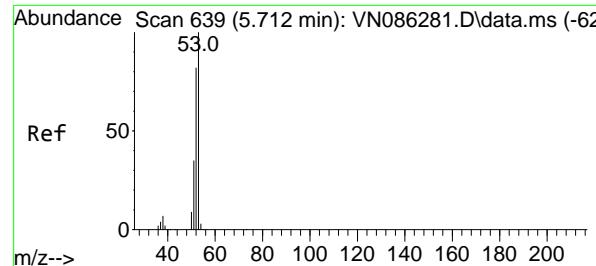
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



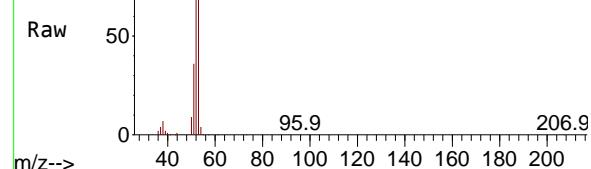
#14
Allyl chloride
Concen: 45.690 ug/l
RT: 5.018 min Scan# 521
Delta R.T. -0.006 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

Tgt Ion: 41 Resp: 225300
Ion Ratio Lower Upper
41 100
39 73.1 59.2 88.8
76 38.6 31.2 46.8

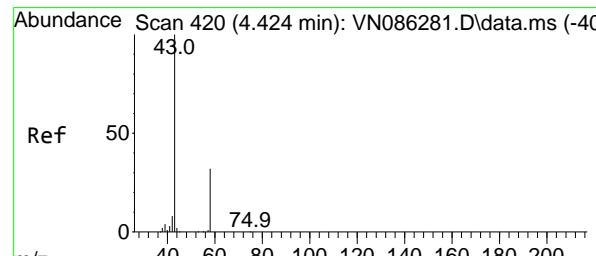
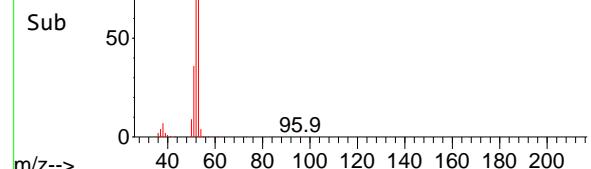




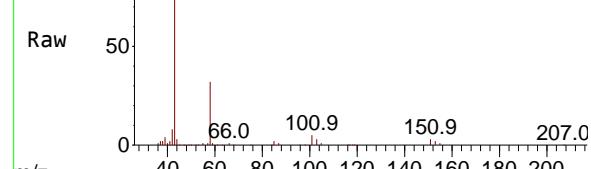
Abundance Scan 639 (5.712 min): VN086286.D\data.ms



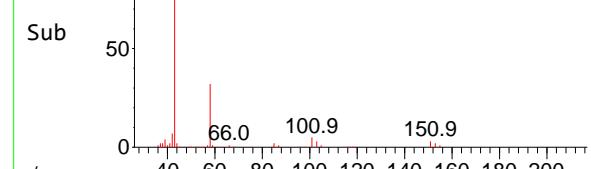
Abundance Scan 639 (5.712 min): VN086286.D\data.ms (-58)



Abundance Scan 419 (4.418 min): VN086286.D\data.ms



Abundance Scan 419 (4.418 min): VN086286.D\data.ms (-36)



#15

Acrylonitrile

Concen: 240.904 ug/l

RT: 5.712 min Scan# 6

Delta R.T. -0.000 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

Instrument:

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 53 Resp: 371338

Ion Ratio Lower Upper

53 100

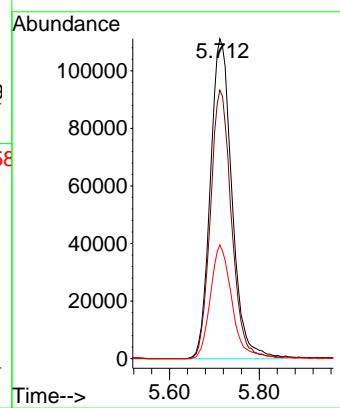
52 82.0 65.5 98.3

51 35.6 28.6 42.8

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#16

Acetone

Concen: 253.403 ug/l

RT: 4.418 min Scan# 419

Delta R.T. -0.006 min

Lab File: VN086286.D

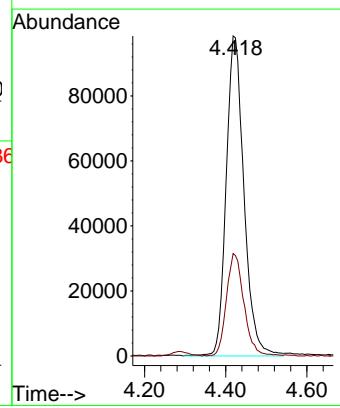
Acq: 16 Apr 2025 09:14

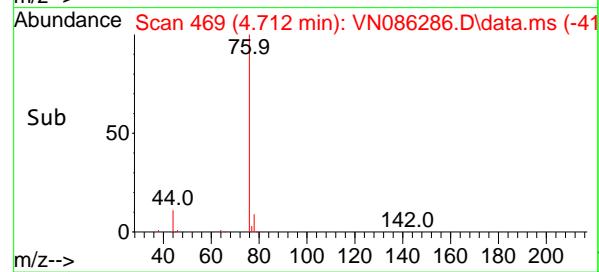
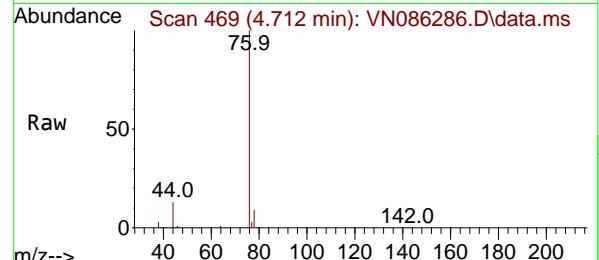
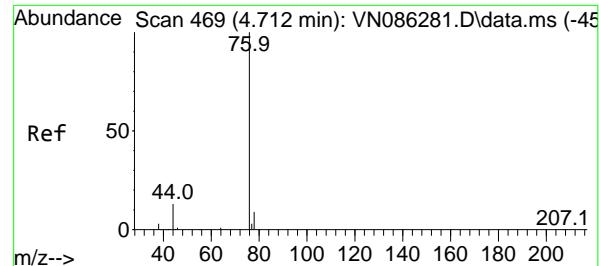
Tgt Ion: 43 Resp: 299320

Ion Ratio Lower Upper

43 100

58 31.8 25.3 37.9





#17

Carbon Disulfide

Concen: 43.931 ug/l

RT: 4.712 min Scan# 4

Delta R.T. -0.000 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

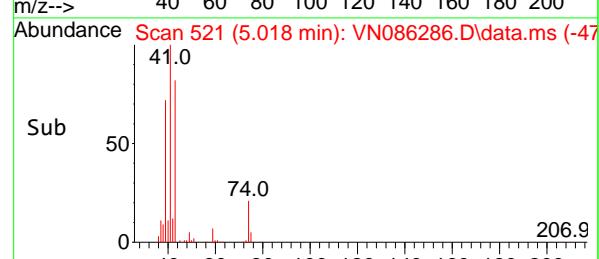
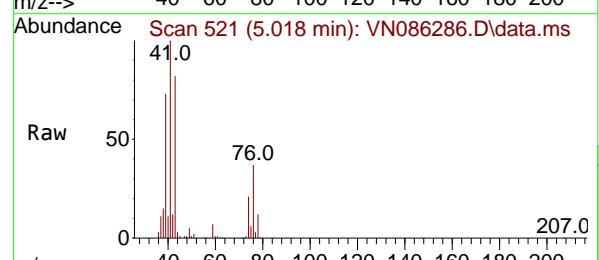
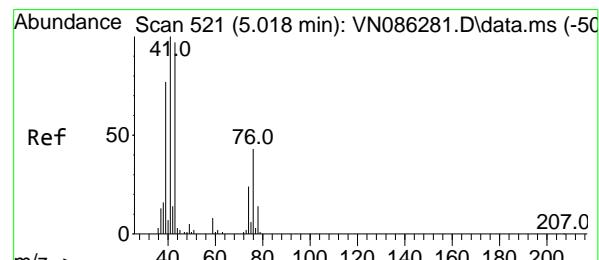
Instrument:

MSVOA_N

ClientSampleId :

VSTDCCC050

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/17/2025
 Supervised By :Mahesh Dadoda 04/17/2025


#18

Methyl Acetate

Concen: 45.427 ug/l

RT: 5.018 min Scan# 521

Delta R.T. -0.000 min

Lab File: VN086286.D

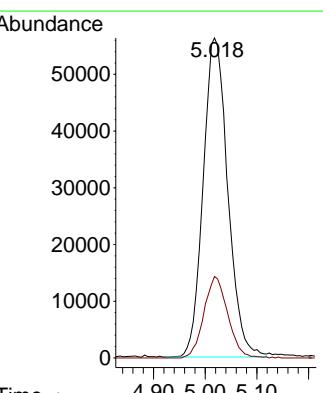
Acq: 16 Apr 2025 09:14

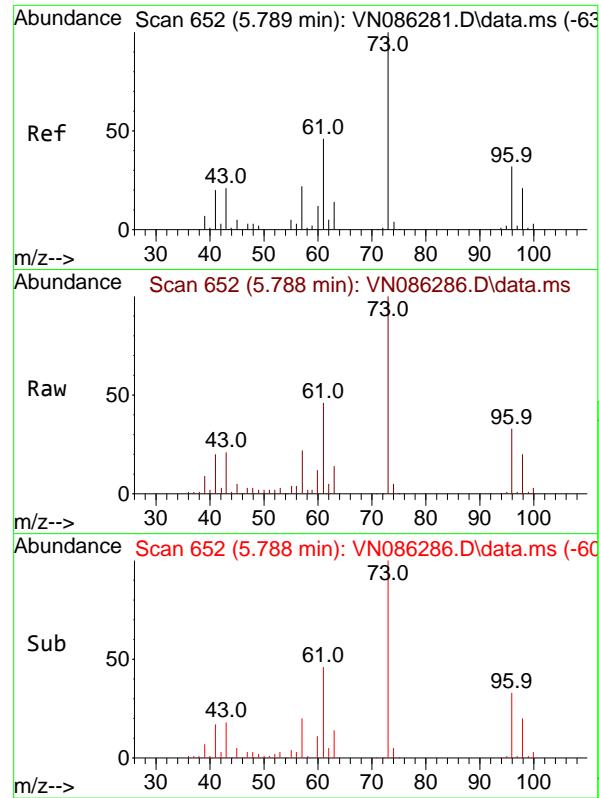
Tgt Ion: 43 Resp: 186352

Ion Ratio Lower Upper

43 100

74 24.7 19.8 29.6



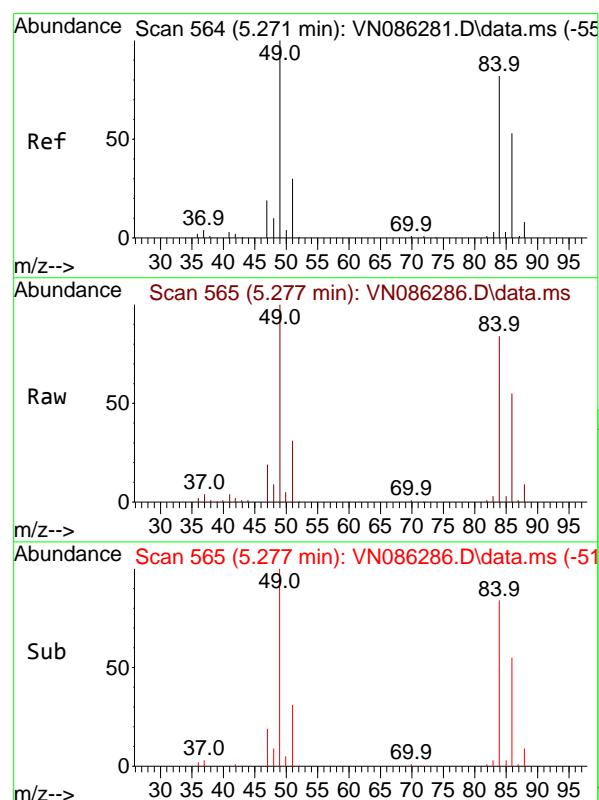


#19
Methyl tert-butyl Ether
Concen: 46.306 ug/l
RT: 5.788 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

Instrument : MSVOA_N
ClientSampleId : VSTDCCC050

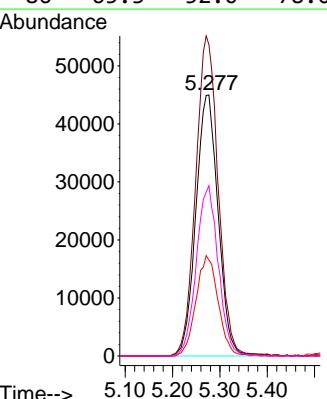
Manual Integrations
APPROVED

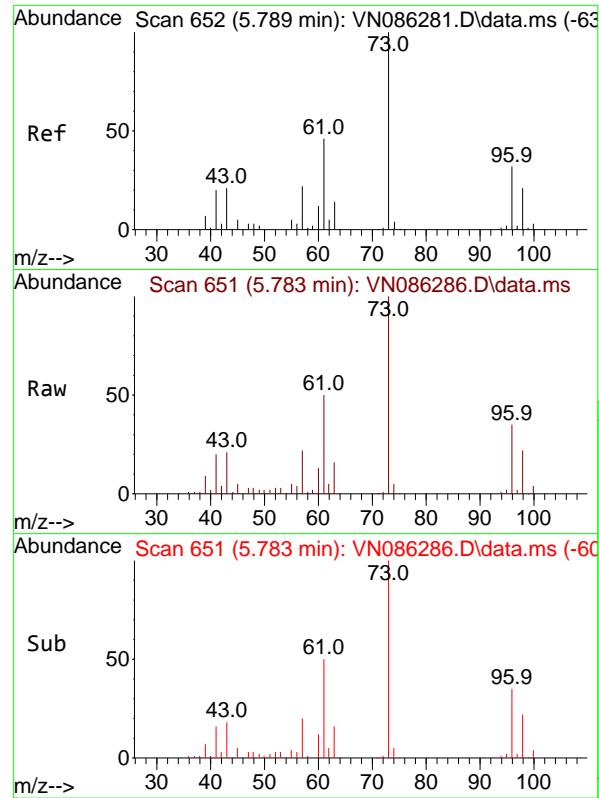
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#20
Methylene Chloride
Concen: 46.630 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.006 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

Tgt Ion: 84 Resp: 147320
Ion Ratio Lower Upper
84 100
49 119.3 98.2 147.2
51 36.8 29.8 44.6
86 65.3 52.0 78.0



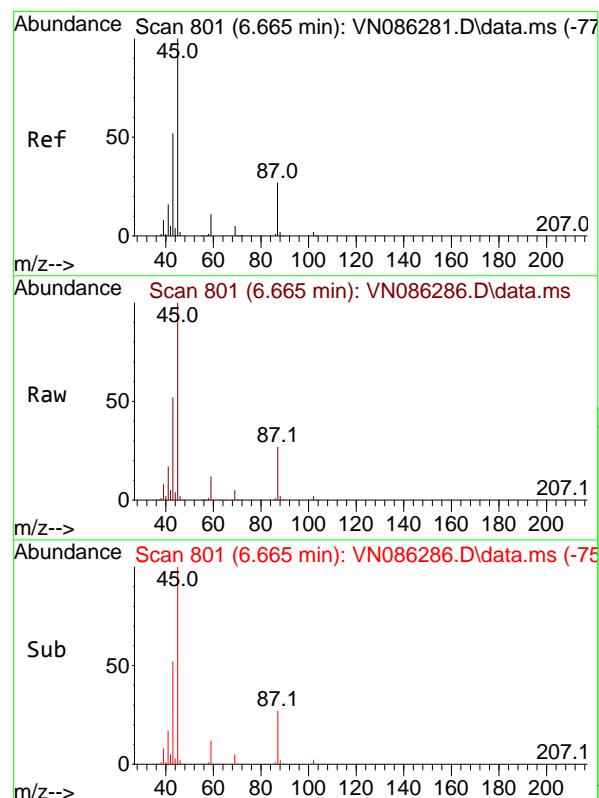


#21
trans-1,2-Dichloroethene
Concen: 46.882 ug/l
RT: 5.783 min Scan# 6
Delta R.T. -0.006 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

Instrument : MSVOA_N
ClientSampleId : VSTDCCC050

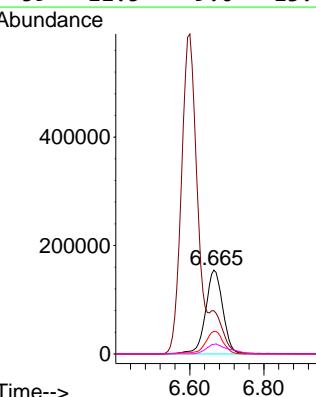
Manual Integrations
APPROVED

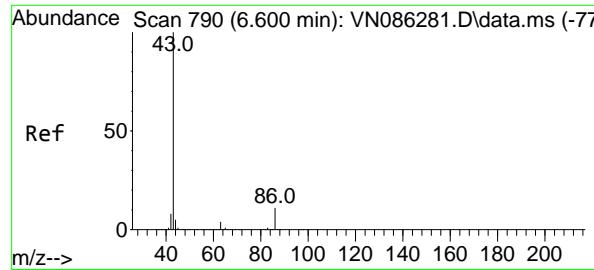
Reviewed By :John Carbone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#22
Diisopropyl ether
Concen: 46.443 ug/l
RT: 6.665 min Scan# 801
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

Tgt Ion: 45 Resp: 498190
Ion Ratio Lower Upper
45 100
43 51.0 41.8 62.8
87 27.0 21.6 32.4
59 11.5 9.0 13.4





#23

Vinyl Acetate

Concen: 232.938 ug/l

RT: 6.600 min Scan# 7

Delta R.T. -0.000 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

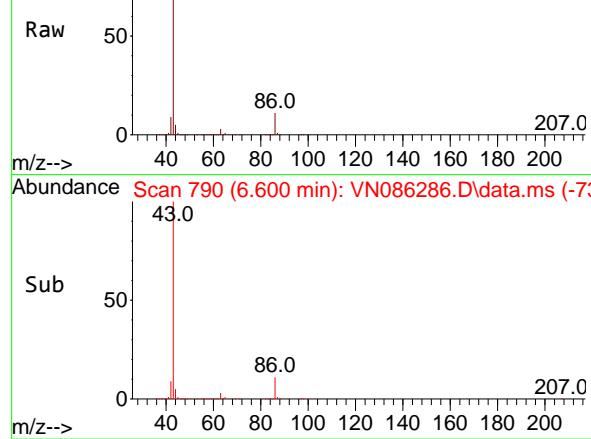
Instrument:

MSVOA_N

ClientSampleId :

VSTDCCC050

Abundance Scan 790 (6.600 min): VN086286.D\data.ms



Tgt Ion: 43 Resp: 174671

Ion Ratio Lower Upper

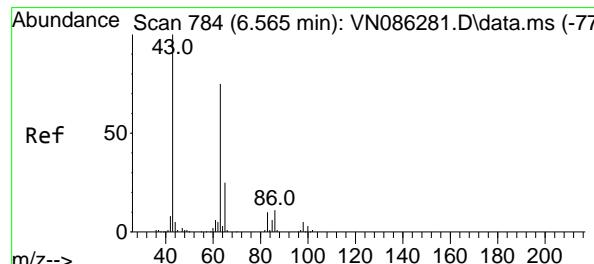
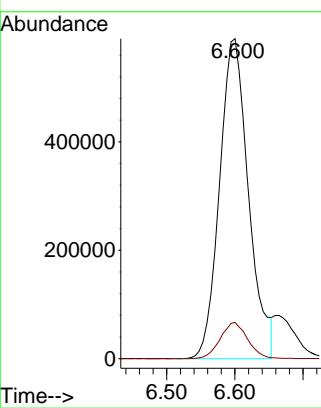
43 100

86 11.4 8.6 13.0

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#24

1,1-Dichloroethane

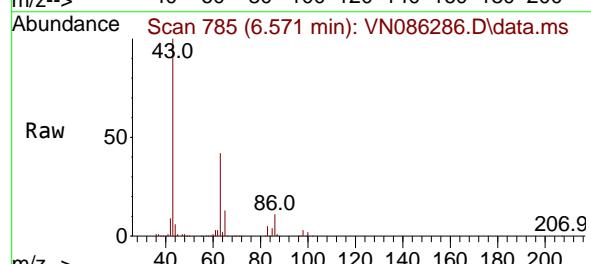
Concen: 47.500 ug/l

RT: 6.571 min Scan# 785

Delta R.T. 0.006 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14



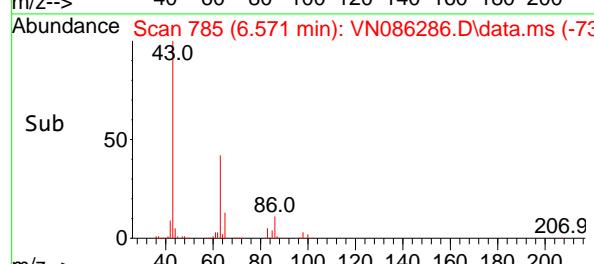
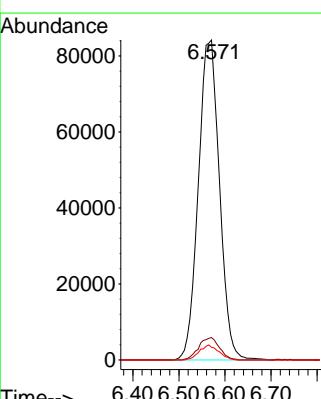
Tgt Ion: 63 Resp: 268843

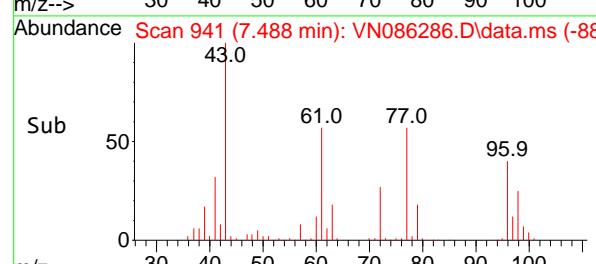
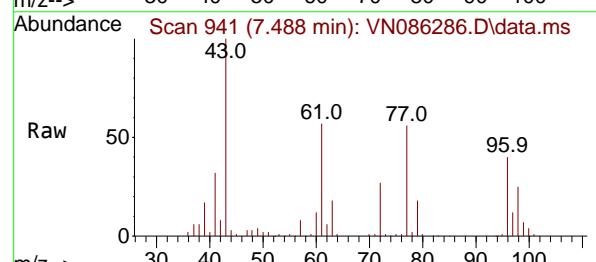
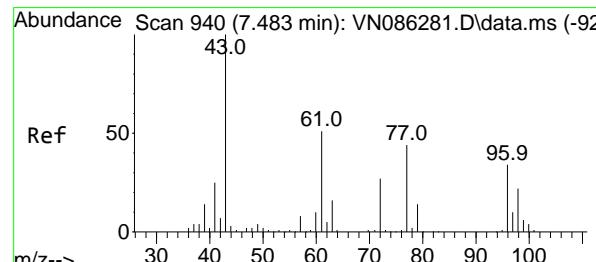
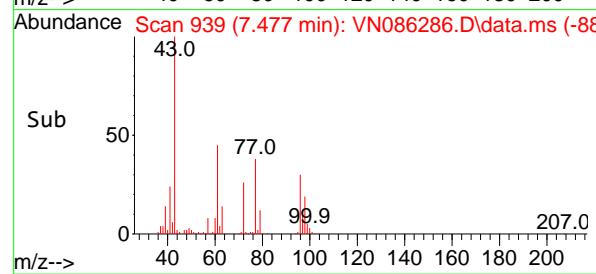
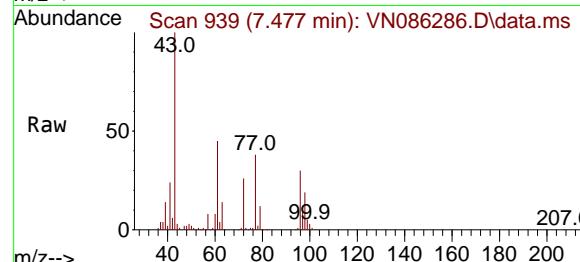
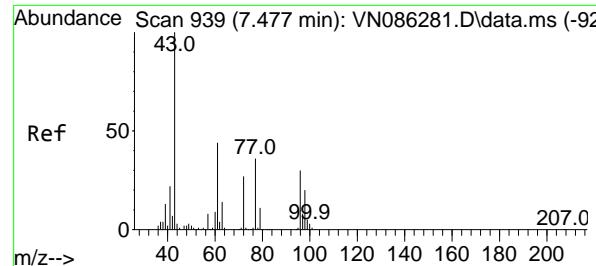
Ion Ratio Lower Upper

63 100

98 7.0 3.4 10.2

100 3.9 2.1 6.5





#25

2-Butanone

Concen: 236.612 ug/l

RT: 7.477 min Scan# 9

Delta R.T. -0.000 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 50332

Ion Ratio Lower Upper

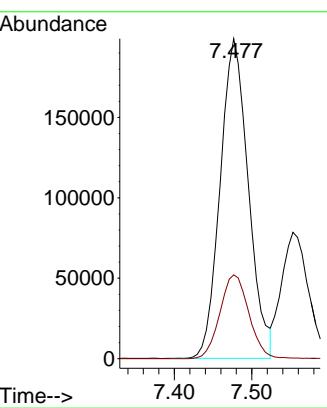
43 100

72 26.2 21.7 32.5

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#26

2,2-Dichloropropane

Concen: 48.048 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN086286.D

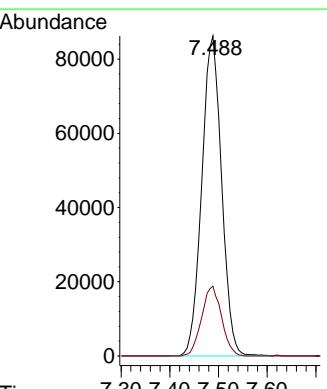
Acq: 16 Apr 2025 09:14

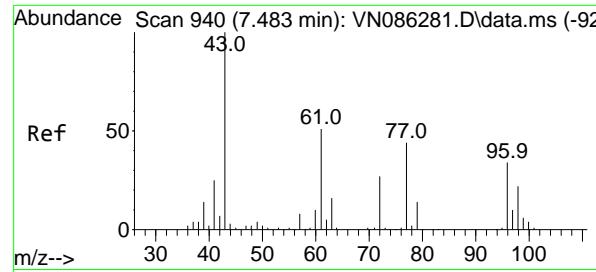
Tgt Ion: 77 Resp: 243488

Ion Ratio Lower Upper

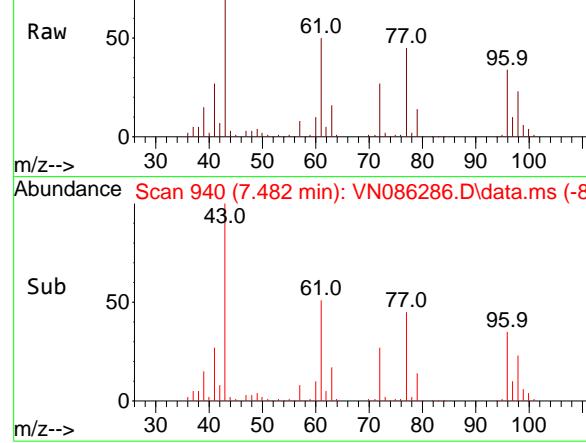
77 100

97 21.9 11.2 33.5

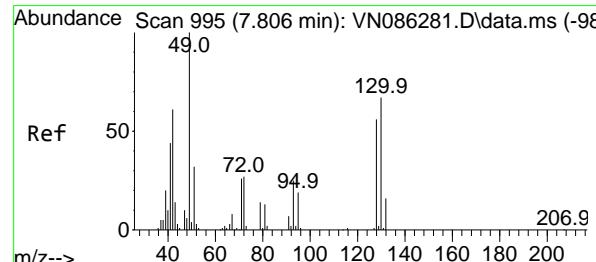
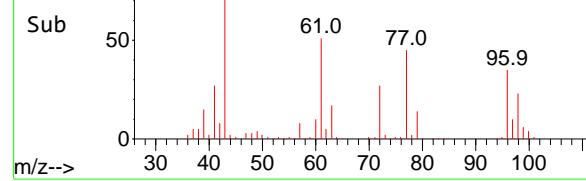




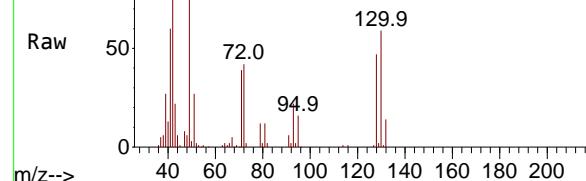
Abundance Scan 940 (7.482 min): VN086286.D\data.ms



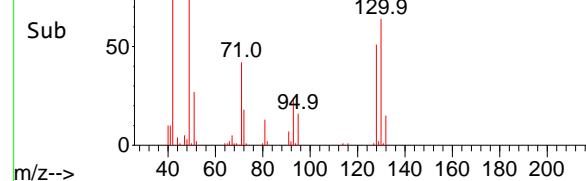
Abundance Scan 940 (7.482 min): VN086286.D\data.ms (-88)



Abundance Scan 996 (7.812 min): VN086286.D\data.ms



Abundance Scan 996 (7.812 min): VN086286.D\data.ms (-94)



#27

cis-1,2-Dichloroethene

Concen: 46.233 ug/l

RT: 7.482 min Scan# 9

Delta R.T. -0.000 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

Instrument :

MSVOA_N

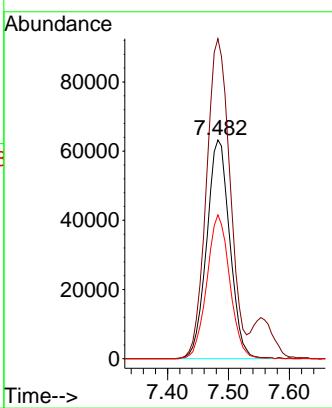
ClientSampleId :

VSTDCCC050

Manual Integrations**APPROVED**

Reviewed By :John Carbone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#28

Bromochloromethane

Concen: 47.831 ug/l

RT: 7.812 min Scan# 996

Delta R.T. 0.006 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

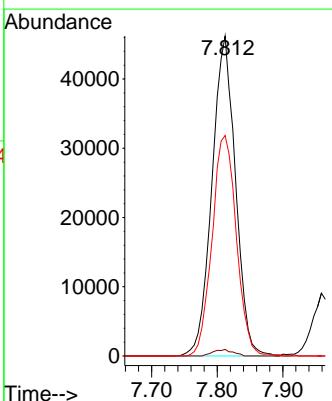
Tgt Ion: 49 Resp: 114783

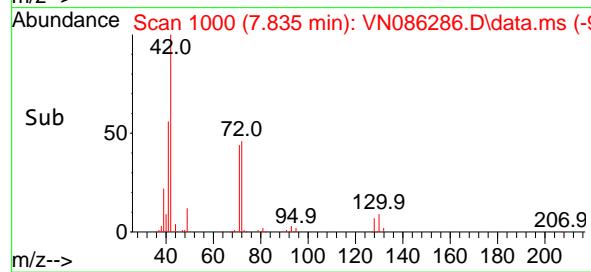
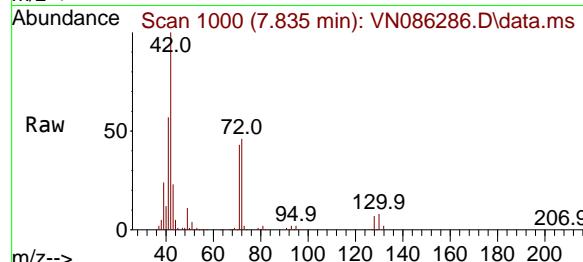
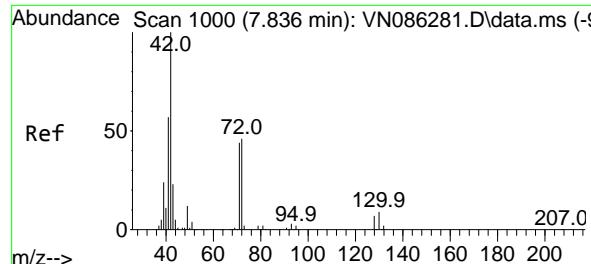
Ion Ratio Lower Upper

49 100

129 1.7 0.0 3.4

130 71.2 57.1 85.7





#29

Tetrahydrofuran

Concen: 232.094 ug/l

RT: 7.835 min Scan# 1000

Delta R.T. -0.000 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

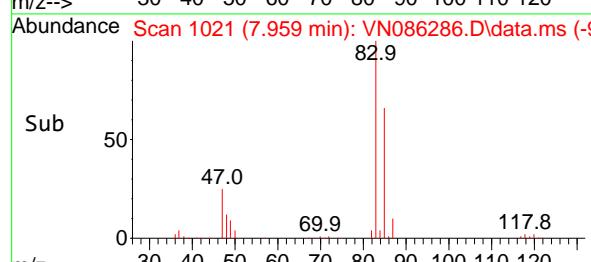
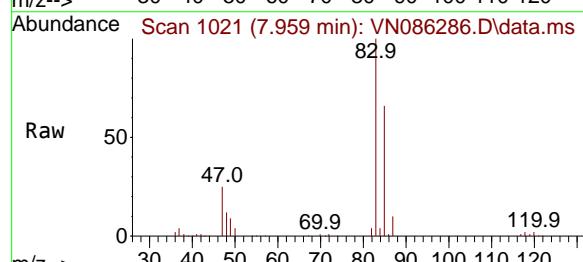
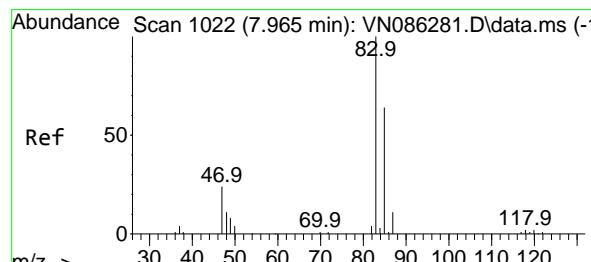
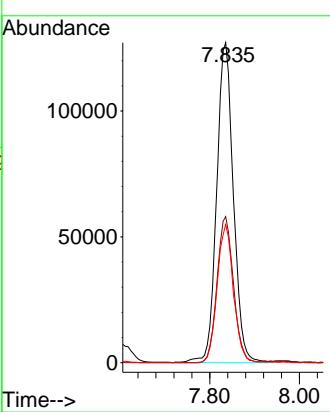
Instrument:

MSVOA_N

ClientSampleId :

VSTDCCC050

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/17/2025
 Supervised By :Mahesh Dadoda 04/17/2025


#30

Chloroform

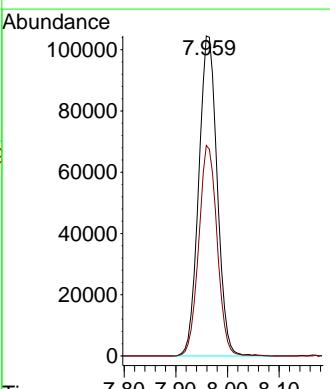
Concen: 46.656 ug/l

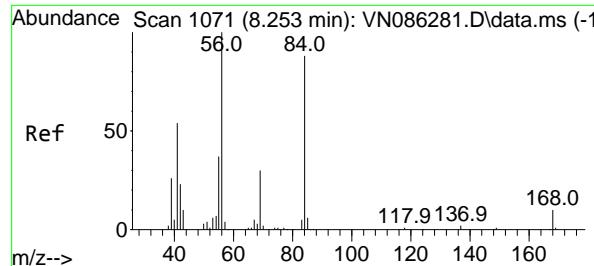
RT: 7.959 min Scan# 1021

Delta R.T. -0.006 min

Lab File: VN086286.D

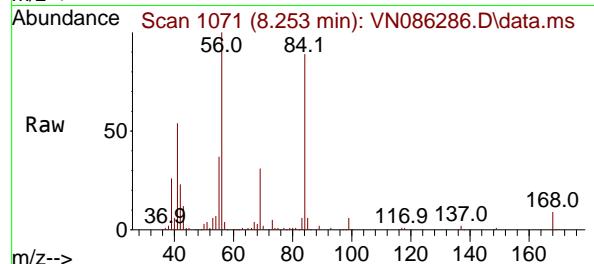
Acq: 16 Apr 2025 09:14

 Tgt Ion: 83 Resp: 259399
 Ion Ratio Lower Upper
 83 100
 85 65.8 51.5 77.3




#31
Cyclohexane
Concen: 45.437 ug/l
RT: 8.253 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

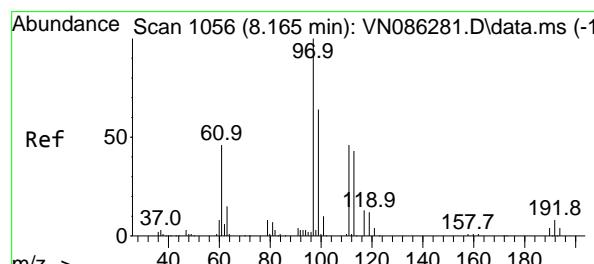
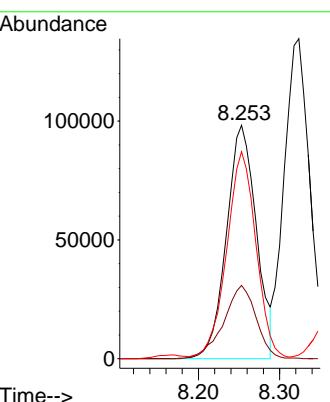
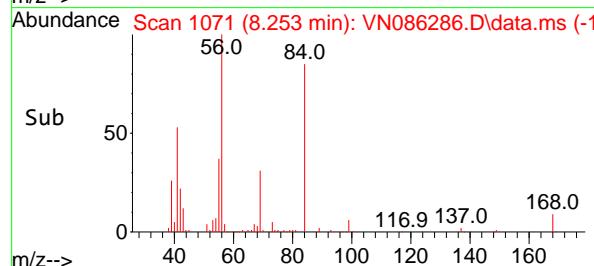
Instrument : MSVOA_N
ClientSampleId : VSTDCCC050



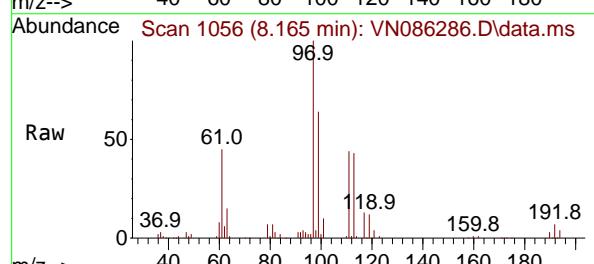
Tgt Ion: 56 Resp: 25164
Ion Ratio Lower Upper
56 100
69 31.4 24.2 36.2
84 87.1 70.3 105.5

Manual Integrations APPROVED

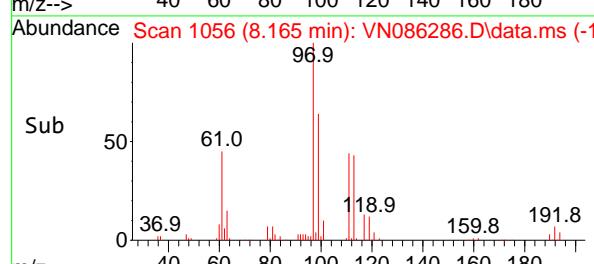
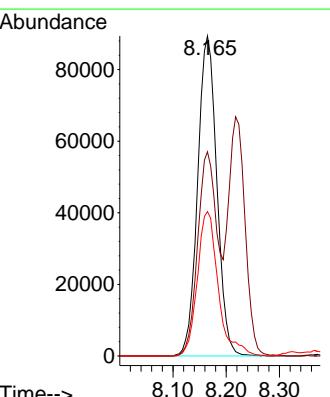
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

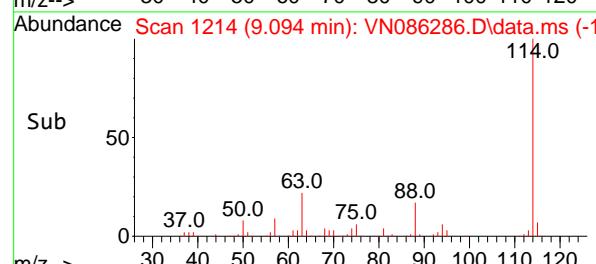
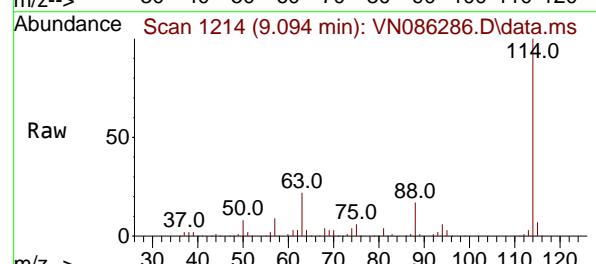
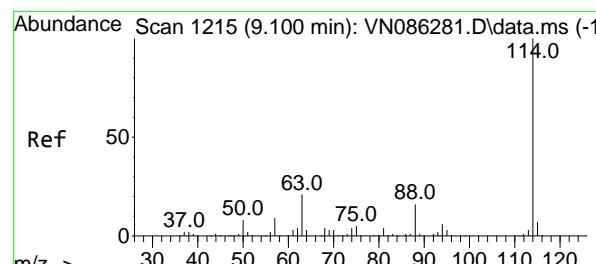
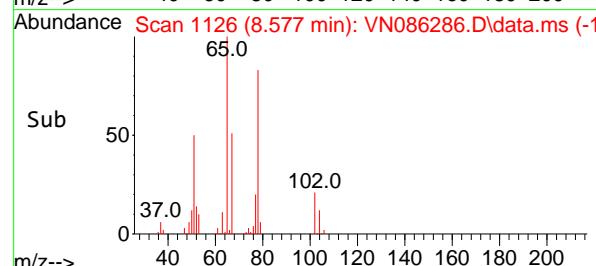
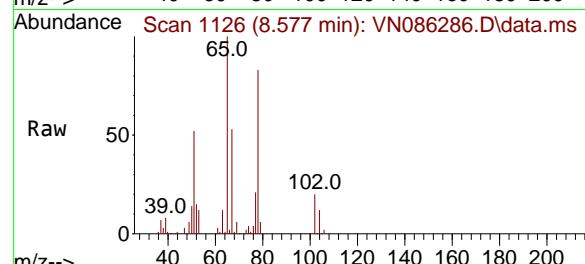
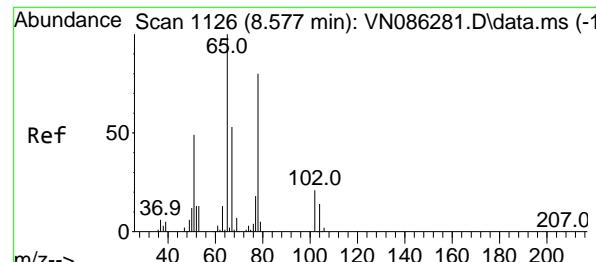


#32
1,1,1-Trichloroethane
Concen: 46.967 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

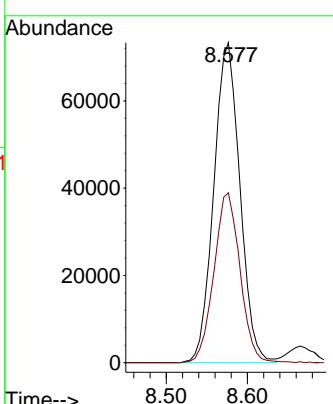


Tgt Ion: 97 Resp: 223386
Ion Ratio Lower Upper
97 100
99 66.6 52.7 79.1
61 49.3 39.5 59.3

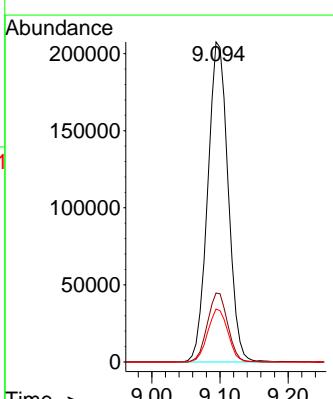


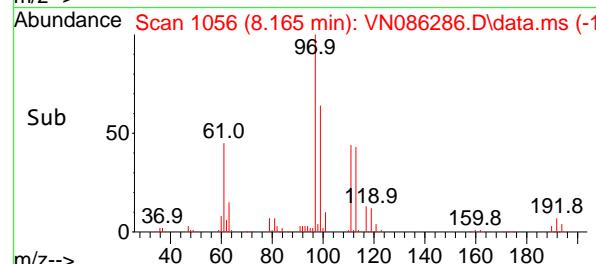
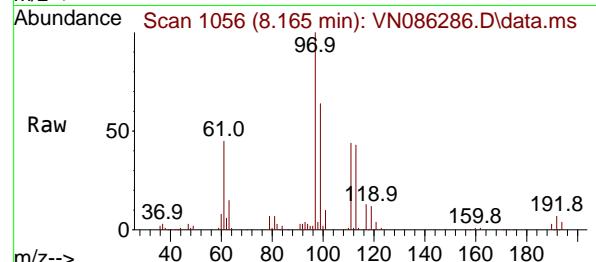
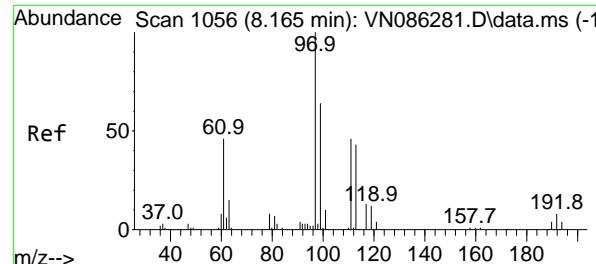


#33

1,2-Dichloroethane-d4
Concen: 48.071 ug/lRT: 8.577 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050**Manual Integrations
APPROVED**Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

#34

1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.094 min Scan# 1214
Delta R.T. -0.006 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14Tgt Ion:114 Resp: 430893
Ion Ratio Lower Upper
114 100
63 21.6 0.0 42.6
88 16.5 0.0 31.8



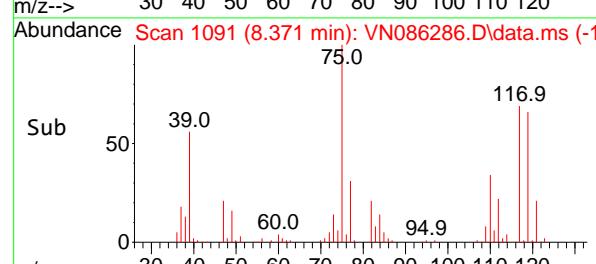
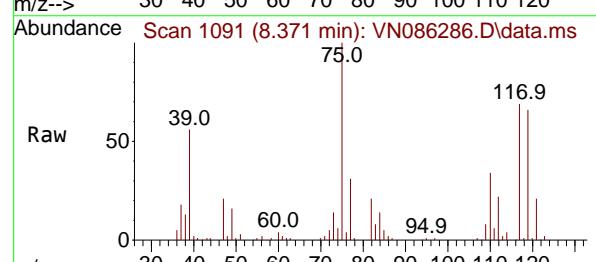
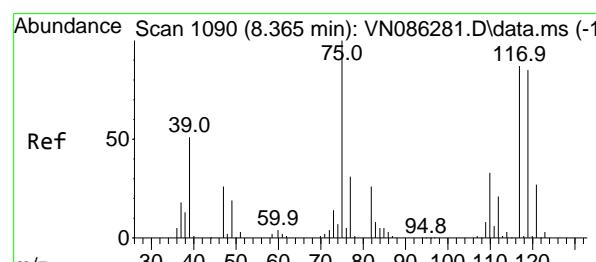
#35

Dibromofluoromethane
Concen: 46.205 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

Instrument : MSVOA_N
ClientSampleId : VSTDCCC050

Manual Integrations APPROVED

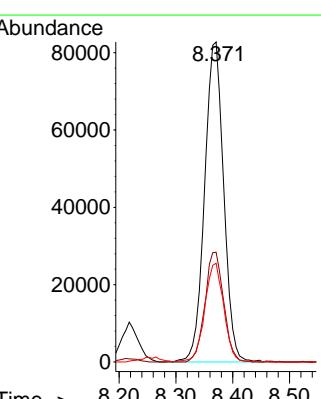
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

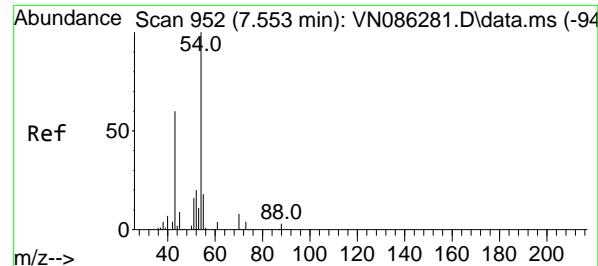


#36

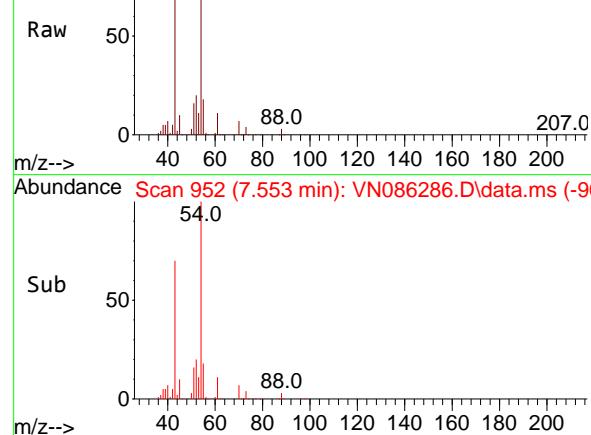
1,1-Dichloropropene
Concen: 48.390 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. 0.006 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

Tgt Ion: 75 Resp: 193287
Ion Ratio Lower Upper
75 100
110 33.7 16.8 50.4
77 30.8 24.9 37.3

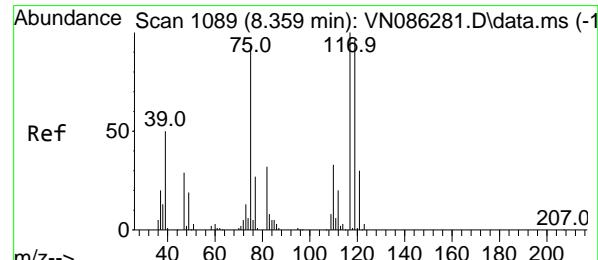
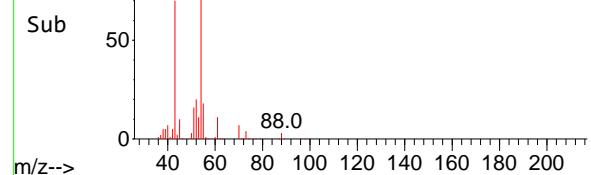




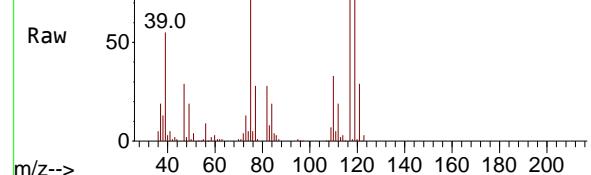
Abundance Scan 952 (7.553 min): VN086286.D\data.ms



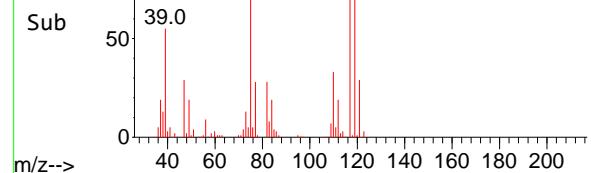
Abundance Scan 952 (7.553 min): VN086286.D\data.ms (-90)



Abundance Scan 1089 (8.359 min): VN086286.D\data.ms



Abundance Scan 1089 (8.359 min): VN086286.D\data.ms (-1)



#37

Ethyl Acetate

Concen: 46.122 ug/l

RT: 7.553 min Scan# 9

Delta R.T. -0.000 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

Instrument:

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 19395

Ion Ratio Lower Upper

43 100

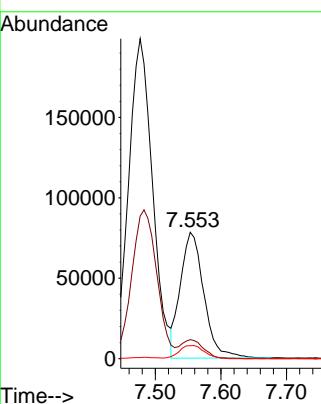
61 15.0 11.1 16.7

70 11.2 9.2 13.8

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



Abundance Scan 1089 (8.359 min): VN086281.D\data.ms (-1)

#38

Carbon Tetrachloride

Concen: 48.682 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. -0.000 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

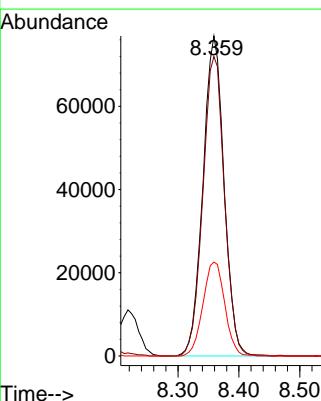
Tgt Ion:117 Resp: 185182

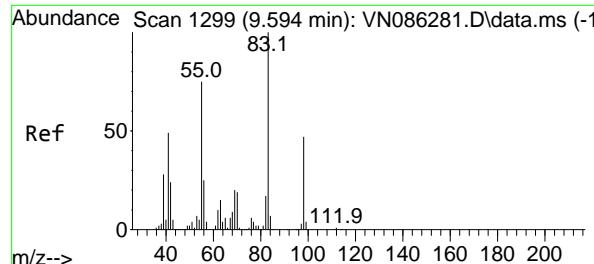
Ion Ratio Lower Upper

117 100

119 93.5 76.8 115.2

121 29.3 23.8 35.8





#39

Methylcyclohexane

Concen: 48.614 ug/l

RT: 9.600 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN086286.D

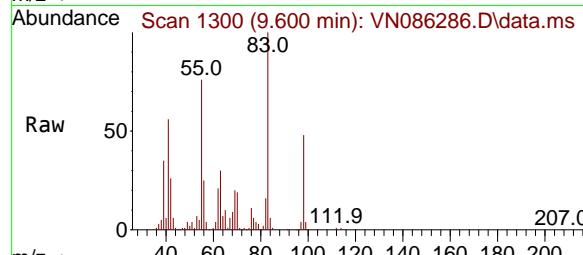
Acq: 16 Apr 2025 09:14

Instrument:

MSVOA_N

ClientSampleId :

VSTDCCC050



Tgt Ion: 83 Resp: 23080

Ion Ratio Lower Upper

83 100

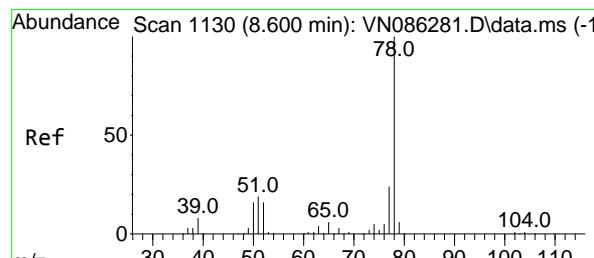
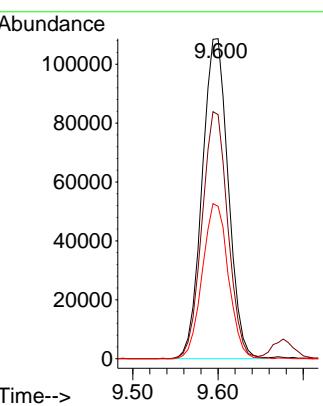
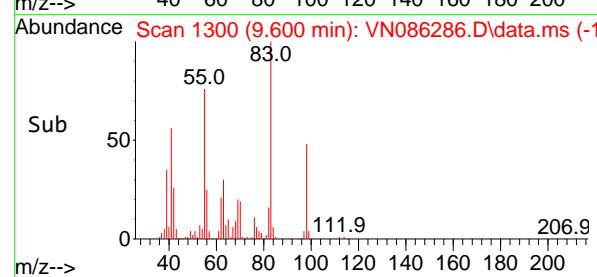
55 76.3 59.8 89.8

98 47.6 37.9 56.9

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#40

Benzene

Concen: 47.920 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN086286.D

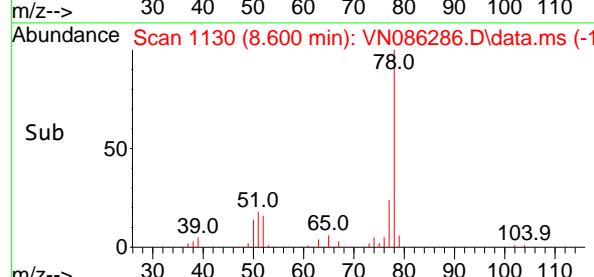
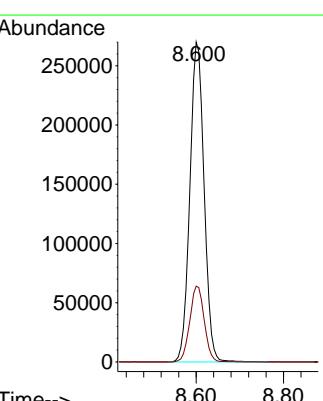
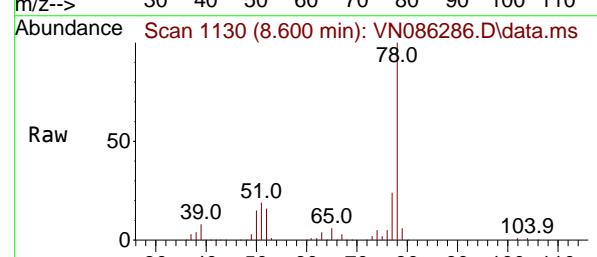
Acq: 16 Apr 2025 09:14

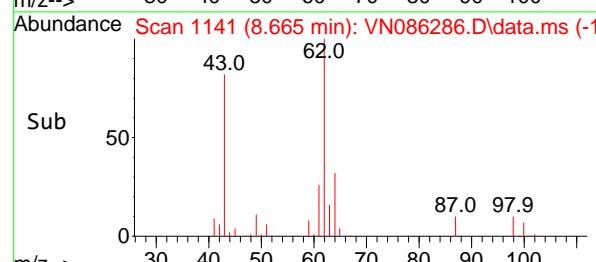
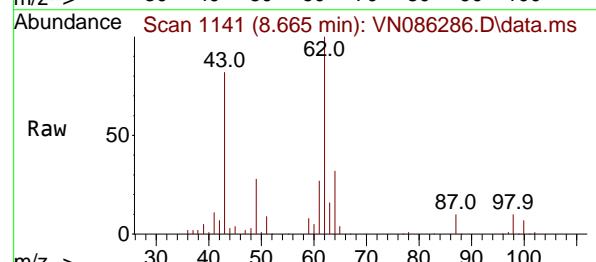
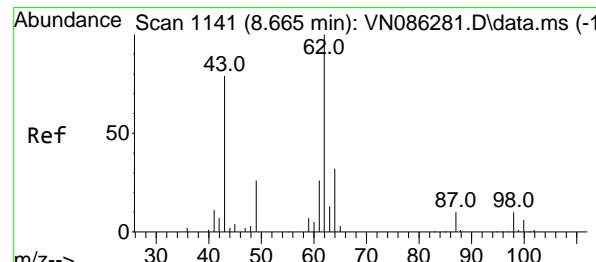
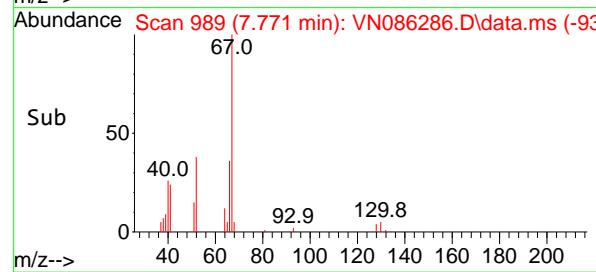
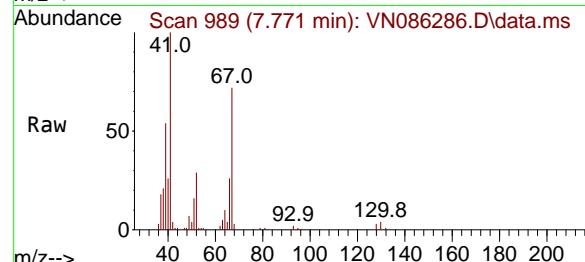
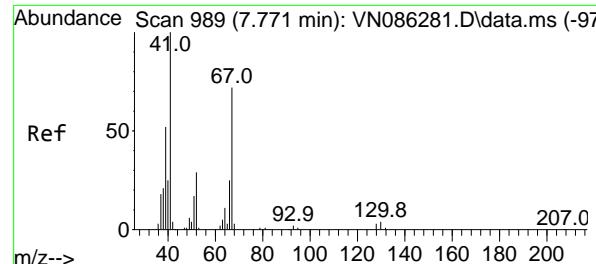
Tgt Ion: 78 Resp: 613264

Ion Ratio Lower Upper

78 100

77 23.7 19.4 29.2





#41

Methacrylonitrile

Concen: 46.794 ug/l

RT: 7.771 min Scan# 9

Delta R.T. -0.000 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

Instrument:

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 41 Resp: 114043

Ion Ratio Lower Upper

41 100

39 53.5 43.0 64.4

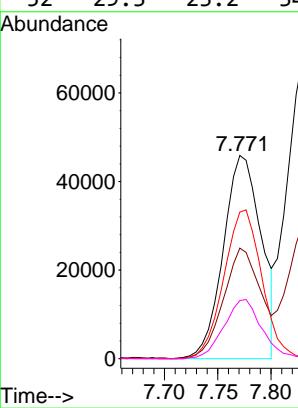
67 73.4 58.8 88.2

52 29.3 23.2 34.8

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#42

1,2-Dichloroethane

Concen: 47.977 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. -0.000 min

Lab File: VN086286.D

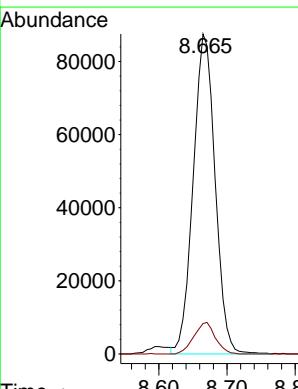
Acq: 16 Apr 2025 09:14

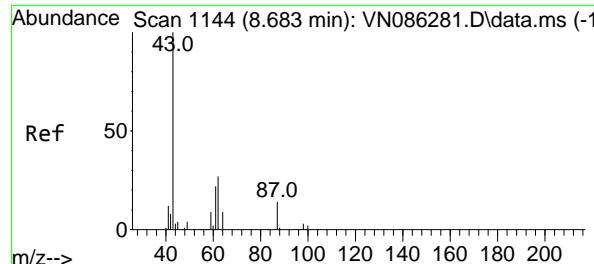
Tgt Ion: 62 Resp: 195800

Ion Ratio Lower Upper

62 100

98 9.6 0.0 19.2





#43

Isopropyl Acetate

Concen: 47.992 ug/l

RT: 8.682 min Scan# 1

Delta R.T. -0.001 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

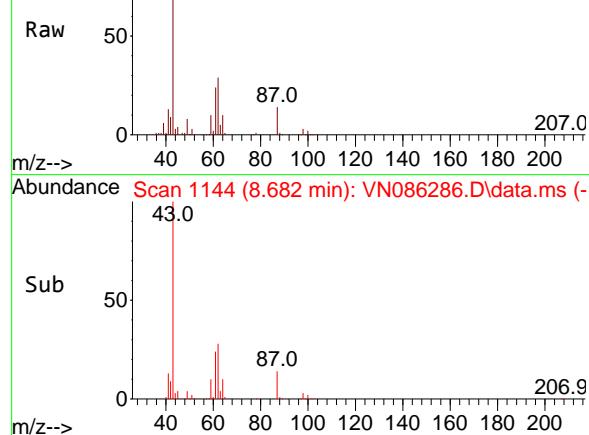
Instrument:

MSVOA_N

ClientSampleId :

VSTDCCC050

Abundance Scan 1144 (8.682 min): VN086286.D\data.ms



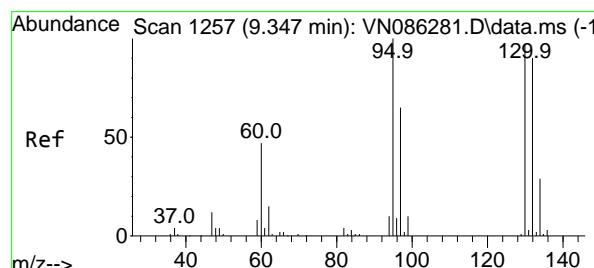
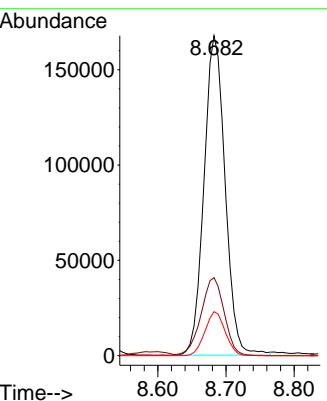
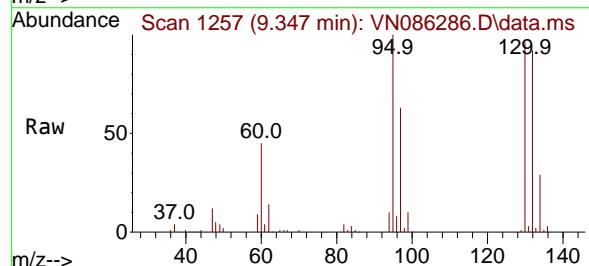
Tgt Ion: 43 Resp: 36200

Ion Ratio Lower Upper

43 100

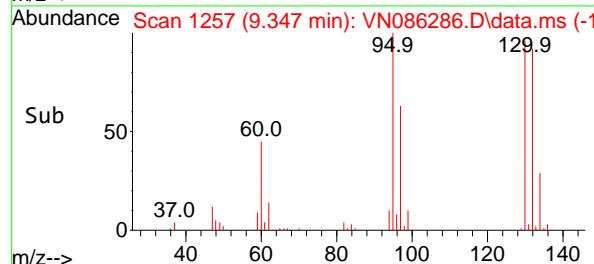
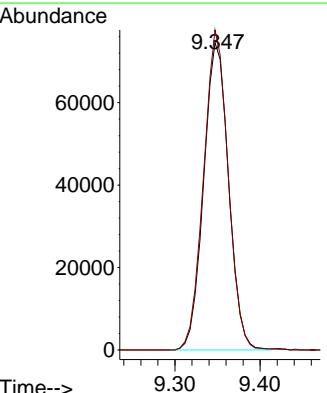
61 26.7 20.5 30.7

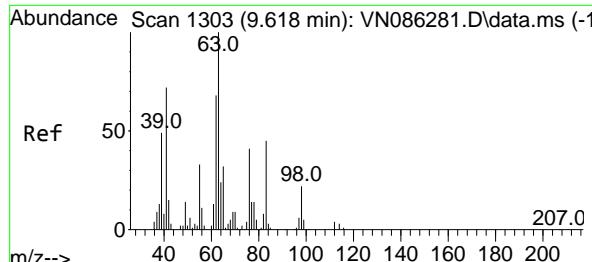
87 13.2 10.5 15.7

**Manual Integrations
APPROVED**
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025#44
Trichloroethene
Concen: 49.927 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14Tgt Ion:130 Resp: 151444
Ion Ratio Lower Upper

130 100

95 104.1 0.0 207.2





#45

1,2-Dichloropropane

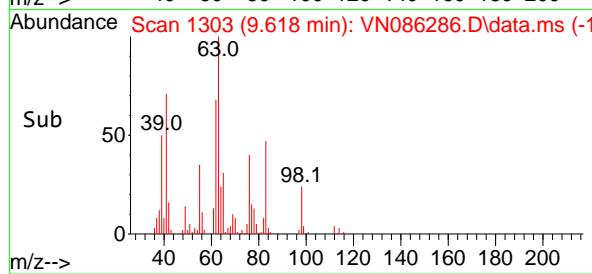
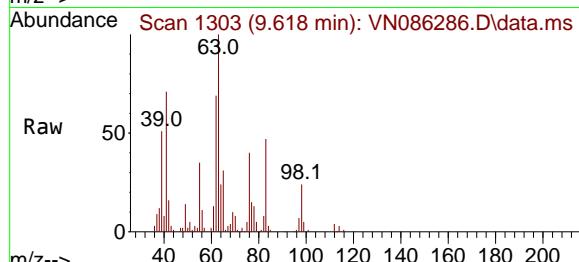
Concen: 48.096 ug/l

RT: 9.618 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14



Tgt Ion: 63 Resp: 15066

Ion Ratio Lower Upper

63 100

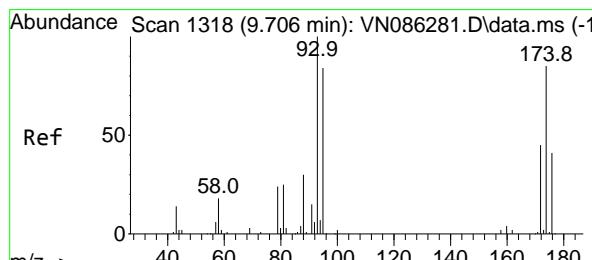
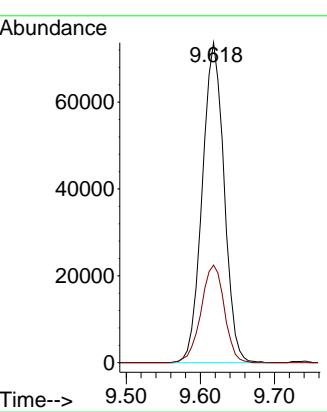
65 30.5 25.4 38.2

Instrument:

MSVOA_N

ClientSampleId :

VSTDCCC050

**Manual Integrations
APPROVED**
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

#46

Dibromomethane

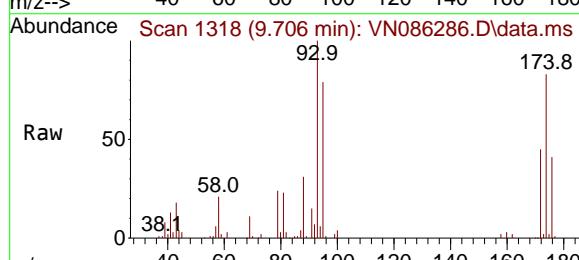
Concen: 48.970 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14



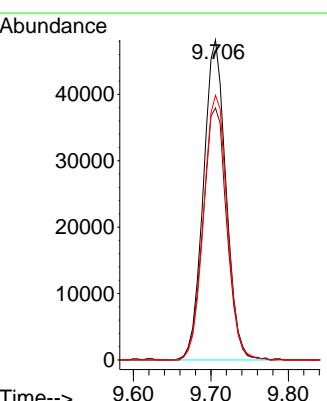
Tgt Ion: 93 Resp: 97743

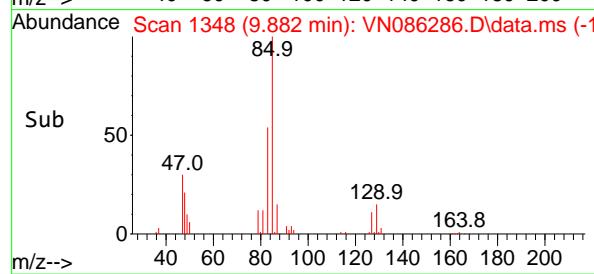
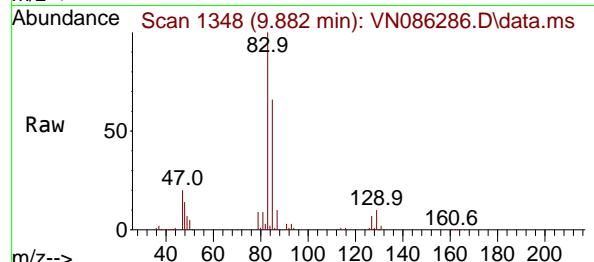
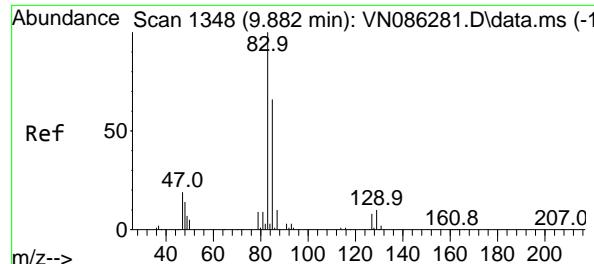
Ion Ratio Lower Upper

93 100

95 82.8 66.2 99.4

174 86.1 67.8 101.6





#47

Bromodichloromethane

Concen: 48.571 ug/l

RT: 9.882 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

Instrument:

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 83 Resp: 209384

Ion Ratio Lower Upper

83 100

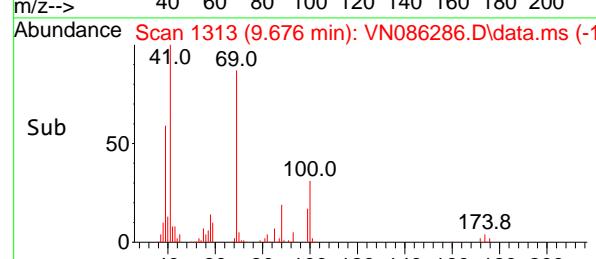
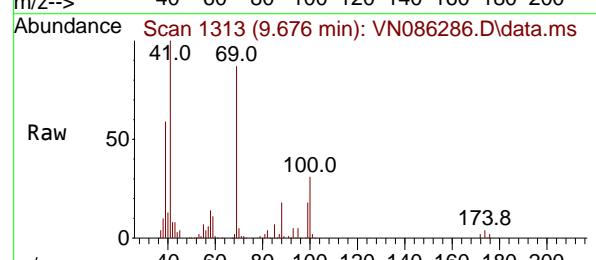
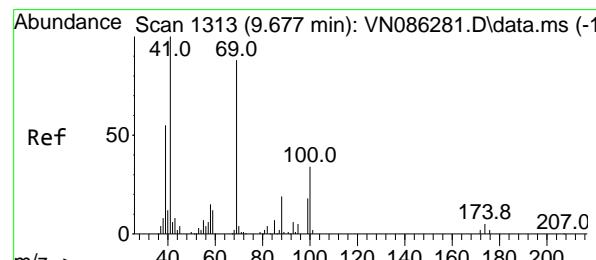
85 65.9 52.6 78.8

127 7.3 6.1 9.1

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#48

Methyl methacrylate

Concen: 46.070 ug/l

RT: 9.676 min Scan# 1313

Delta R.T. -0.000 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

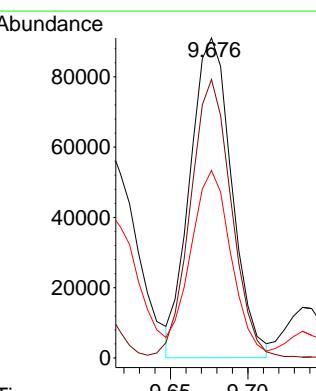
Tgt Ion: 41 Resp: 170133

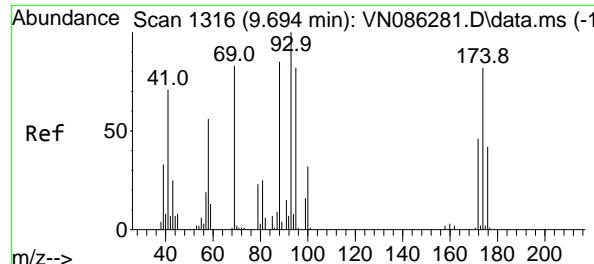
Ion Ratio Lower Upper

41 100

69 86.2 68.2 102.2

39 57.4 45.2 67.8





#49

1,4-Dioxane

Concen: 947.648 ug/l

RT: 9.688 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN086286.D

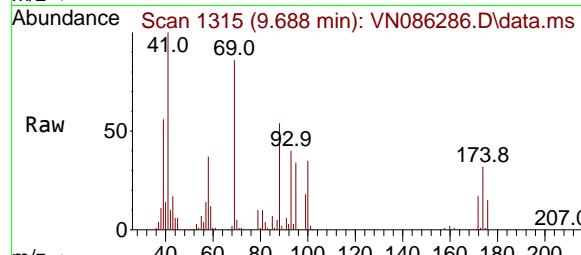
Acq: 16 Apr 2025 09:14

Instrument:

MSVOA_N

ClientSampleId :

VSTDCCC050



Tgt Ion: 88 Resp: 59521

Ion Ratio Lower Upper

88 100

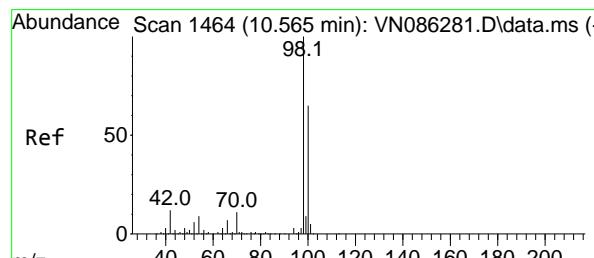
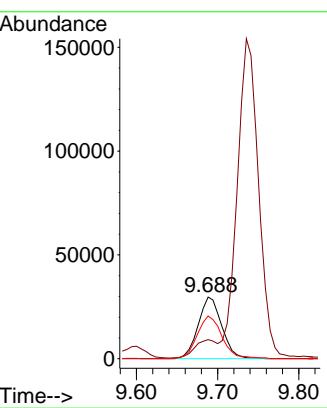
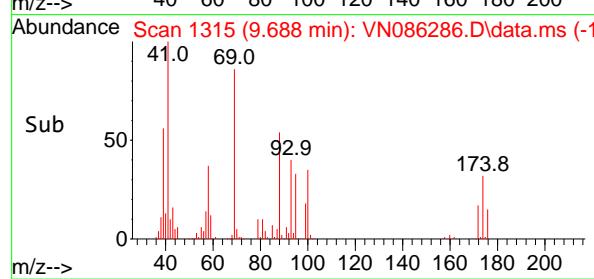
43 28.3 23.8 35.8

58 73.6 57.4 86.2

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#50

Toluene-d8

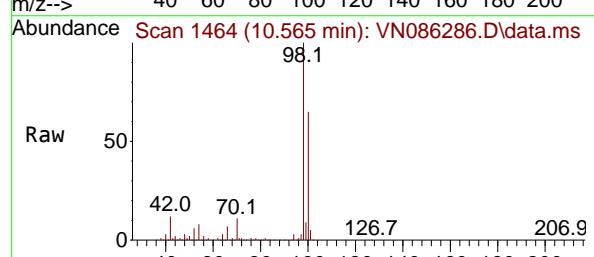
Concen: 49.161 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

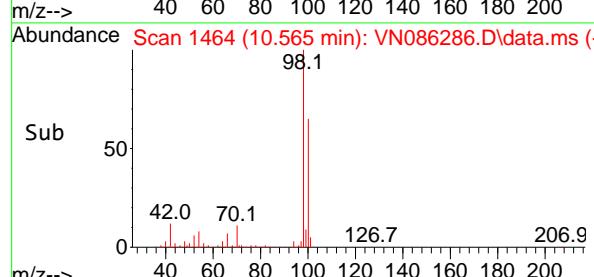
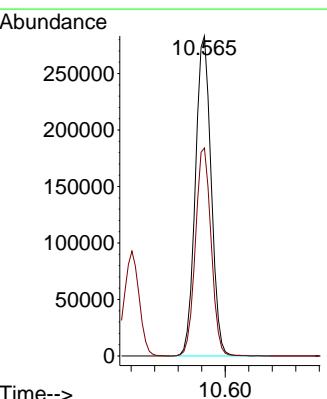


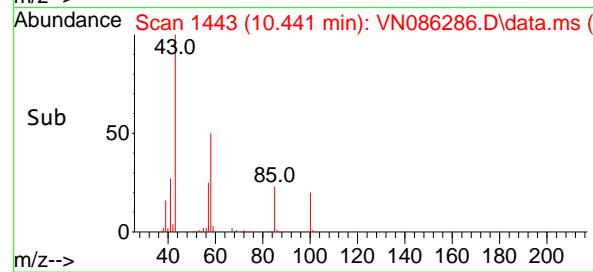
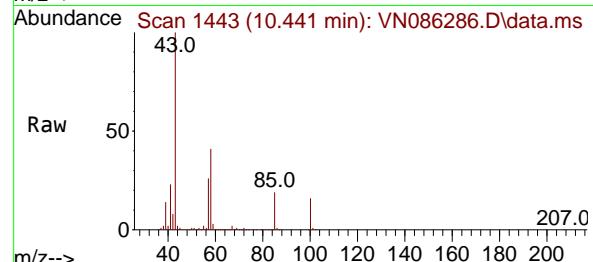
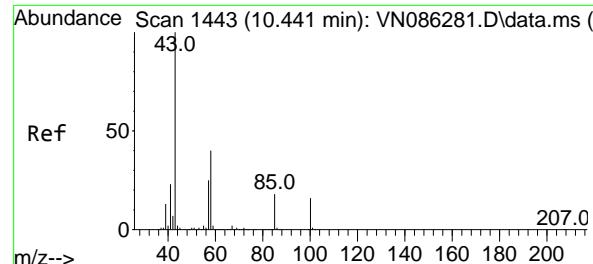
Tgt Ion: 98 Resp: 525438

Ion Ratio Lower Upper

98 100

100 64.8 52.5 78.7





#51

4-Methyl-2-Pentanone

Concen: 240.057 ug/l

RT: 10.441 min Scan# 1443

Delta R.T. -0.000 min

Lab File: VN086286.D

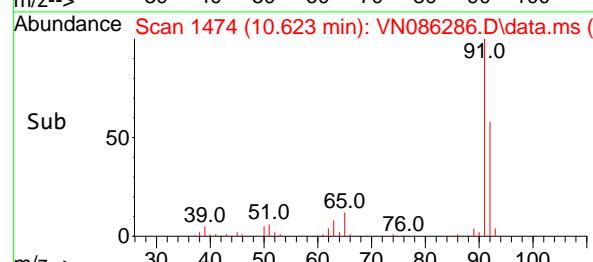
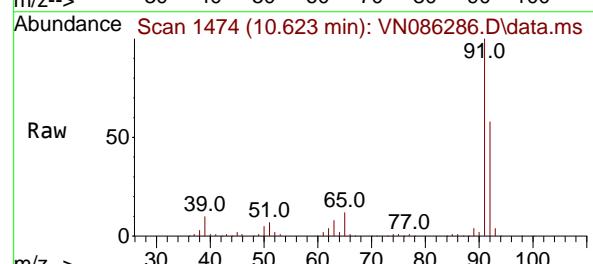
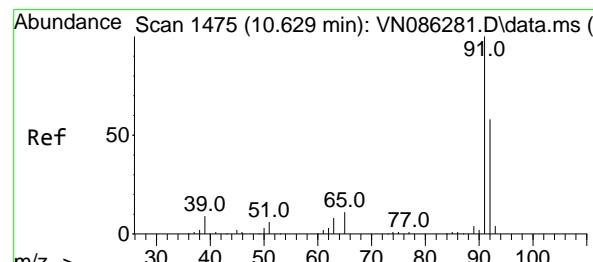
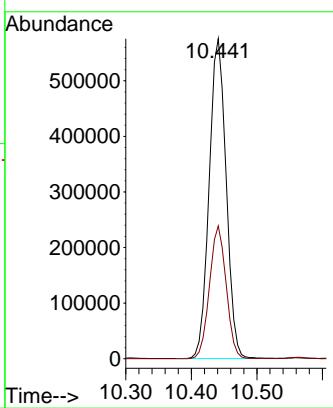
Acq: 16 Apr 2025 09:14

Instrument:

MSVOA_N

ClientSampleId :

VSTDCCC050

**Manual Integrations
APPROVED**
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

#52

Toluene

Concen: 48.280 ug/l

RT: 10.623 min Scan# 1474

Delta R.T. -0.006 min

Lab File: VN086286.D

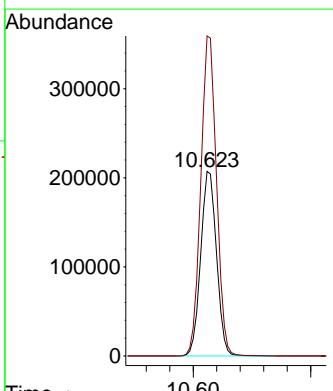
Acq: 16 Apr 2025 09:14

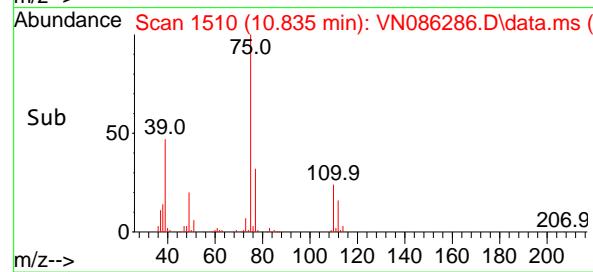
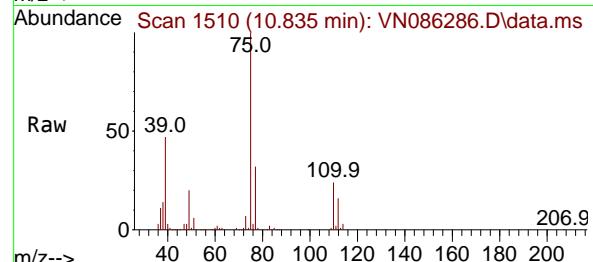
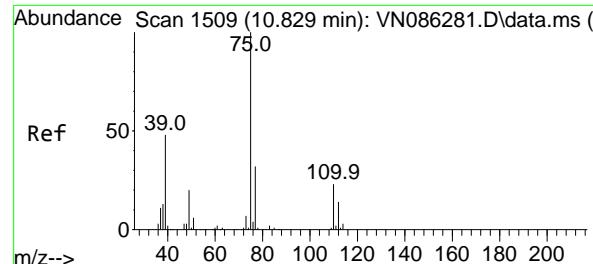
Tgt Ion: 92 Resp: 385532

Ion Ratio Lower Upper

92 100

91 172.4 137.3 205.9



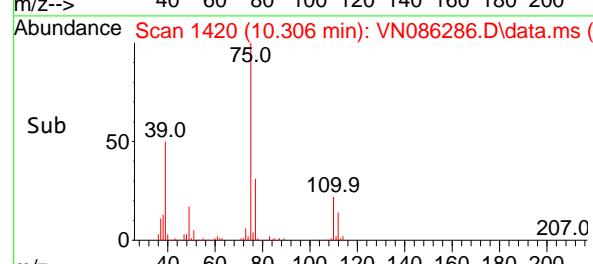
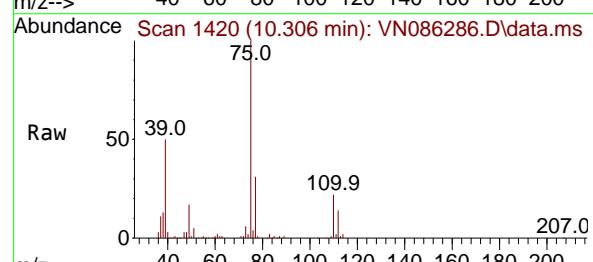
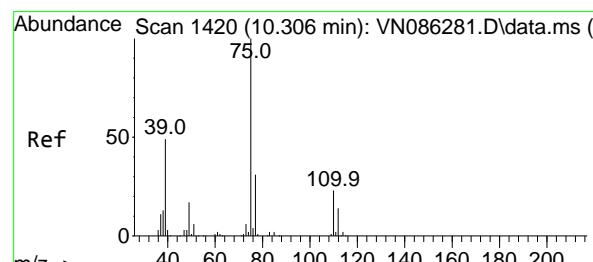
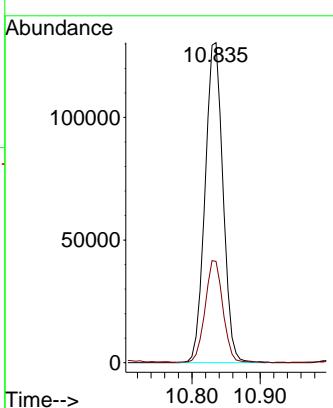


#53
t-1,3-Dichloropropene
Concen: 49.563 ug/l
RT: 10.835 min Scan# 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

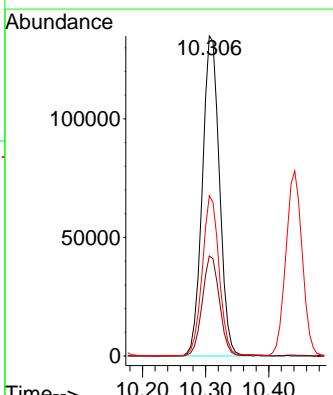
Manual Integrations APPROVED

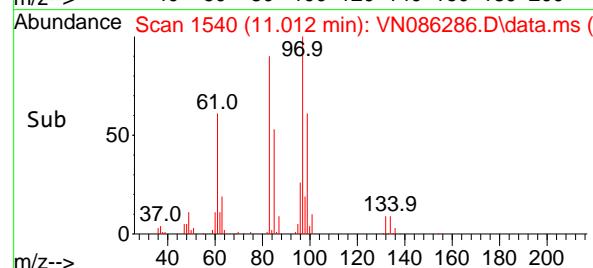
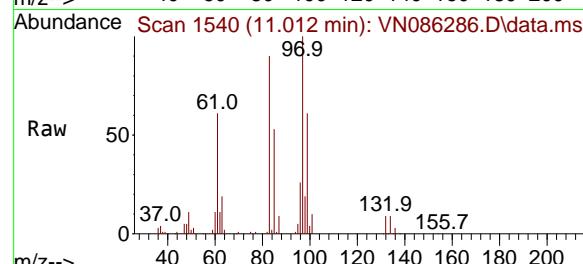
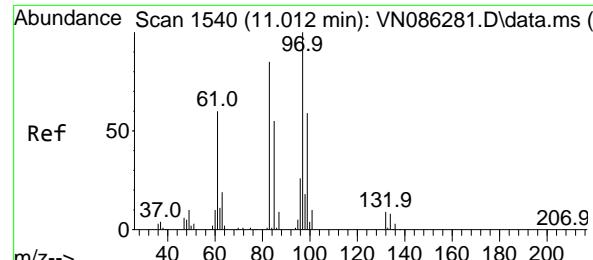
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#54
cis-1,3-Dichloropropene
Concen: 48.119 ug/l
RT: 10.306 min Scan# 1420
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

Tgt Ion: 75 Resp: 254333
Ion Ratio Lower Upper
75 100
77 31.3 25.2 37.8
39 49.9 39.3 58.9





#55

1,1,2-Trichloroethane
Concen: 47.739 ug/l
RT: 11.012 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

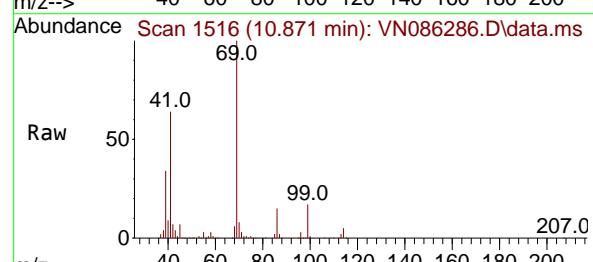
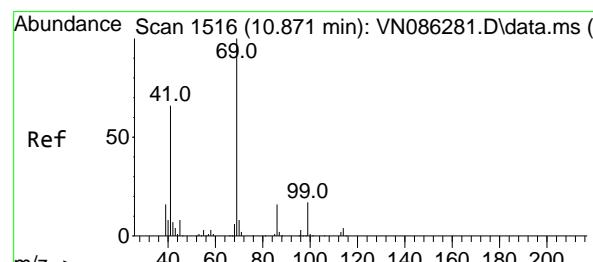
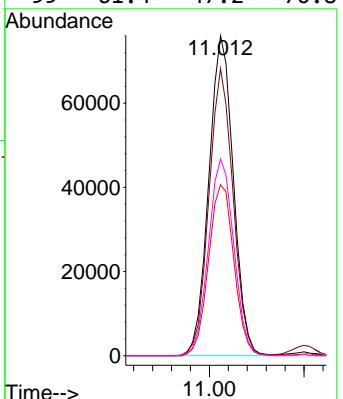
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

Tgt Ion: 97 Resp: 137150
Ion Ratio Lower Upper

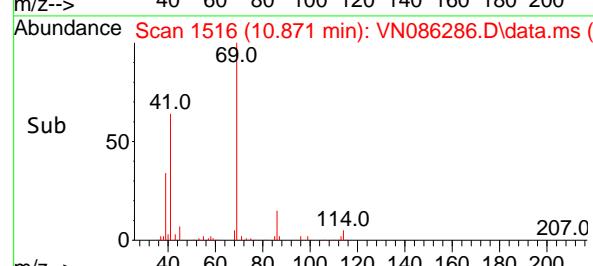
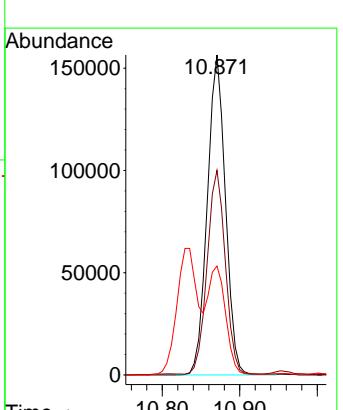
| | |
|----|------|
| 97 | 100 |
| 83 | 89.8 |
| 85 | 53.4 |
| 99 | 61.4 |
| | 47.2 |
| | 70.8 |

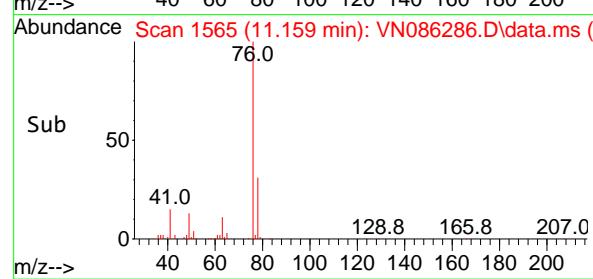
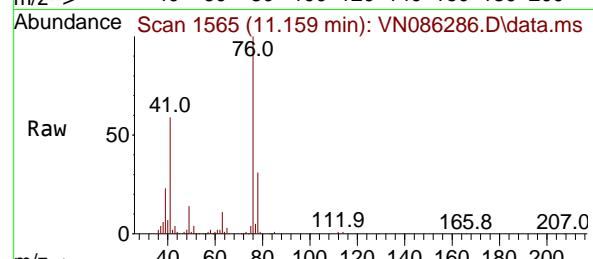
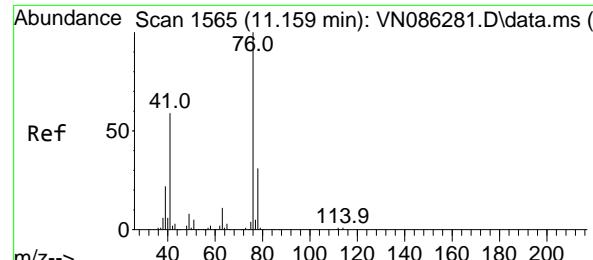


#56
Ethyl methacrylate
Concen: 48.193 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

Tgt Ion: 69 Resp: 254512
Ion Ratio Lower Upper

| | |
|----|------|
| 69 | 100 |
| 41 | 63.8 |
| 39 | 32.6 |





#57

1,3-Dichloropropane

Concen: 48.323 ug/l

RT: 11.159 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

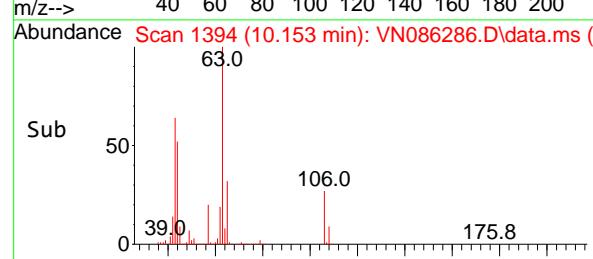
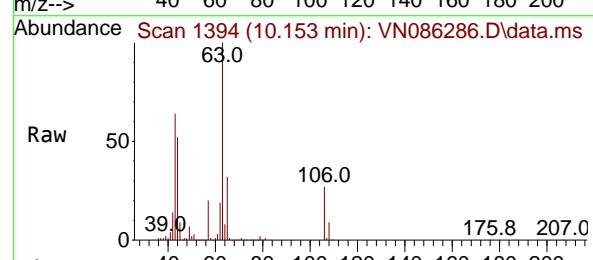
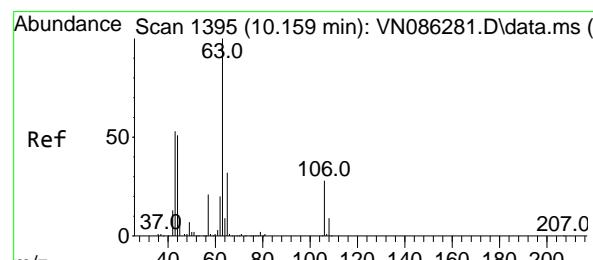
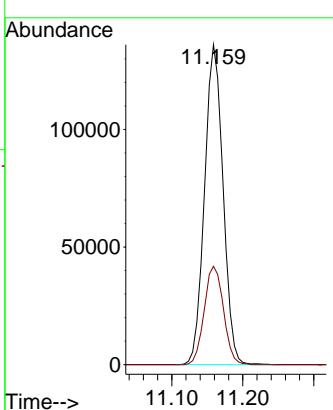
Instrument:

MSVOA_N

ClientSampleId :

VSTDCCC050

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/17/2025
 Supervised By :Mahesh Dadoda 04/17/2025


#58

2-Chloroethyl Vinyl ether

Concen: 245.023 ug/l

RT: 10.153 min Scan# 1394

Delta R.T. -0.006 min

Lab File: VN086286.D

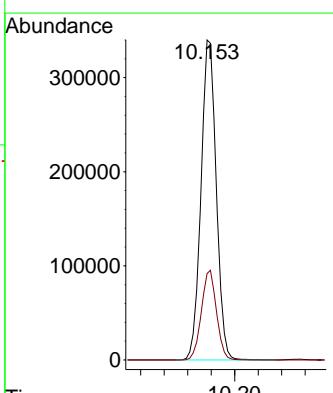
Acq: 16 Apr 2025 09:14

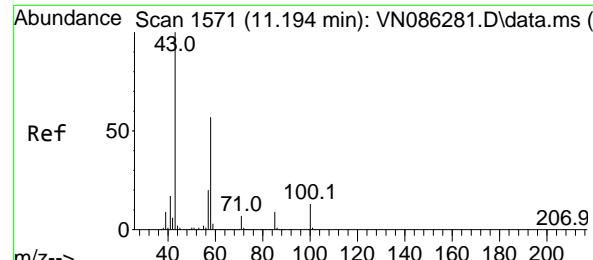
Tgt Ion: 63 Resp: 614176

Ion Ratio Lower Upper

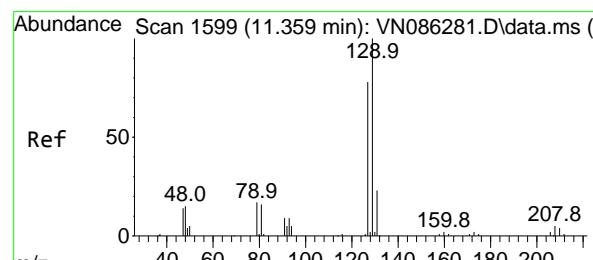
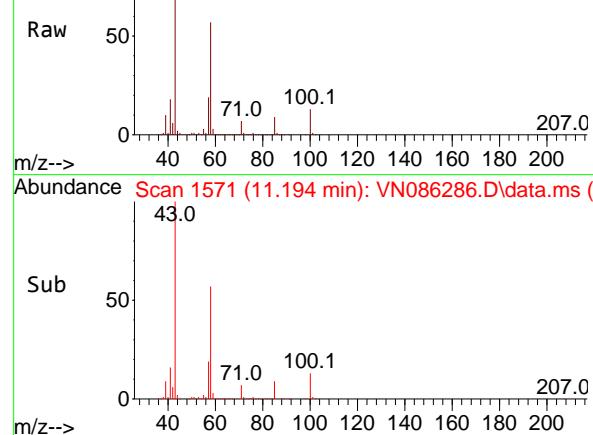
63 100

106 27.6 22.2 33.2

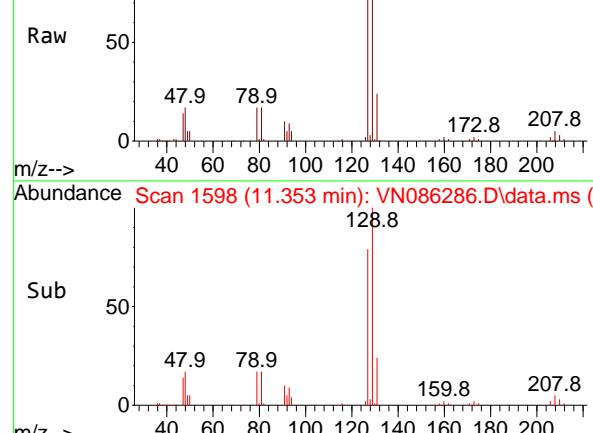




Abundance Scan 1571 (11.194 min): VN086286.D\data.ms



Abundance Scan 1598 (11.353 min): VN086286.D\data.ms



Abundance Scan 1598 (11.353 min): VN086286.D\data.ms (-)

#59

2-Hexanone

Concen: 241.579 ug/l

RT: 11.194 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

Instrument:

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 771609

Ion Ratio Lower Upper

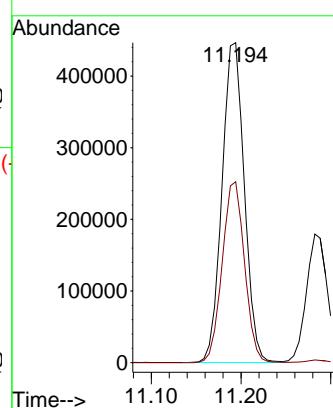
43 100

58 56.6 28.3 85.0

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#60

Dibromochloromethane

Concen: 48.808 ug/l

RT: 11.353 min Scan# 1598

Delta R.T. -0.006 min

Lab File: VN086286.D

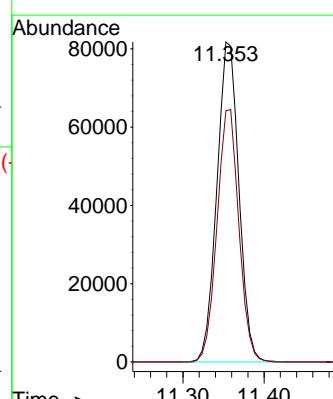
Acq: 16 Apr 2025 09:14

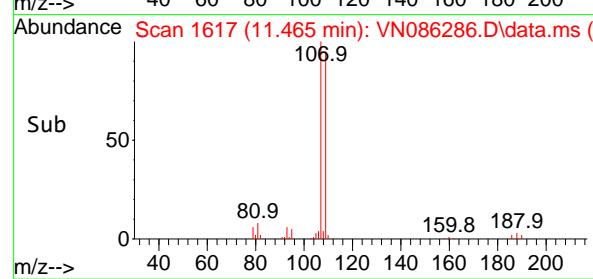
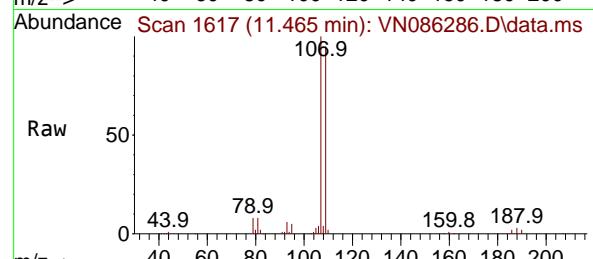
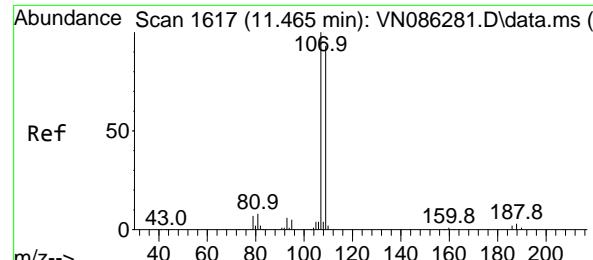
Tgt Ion:129 Resp: 153985

Ion Ratio Lower Upper

129 100

127 78.3 38.7 116.1



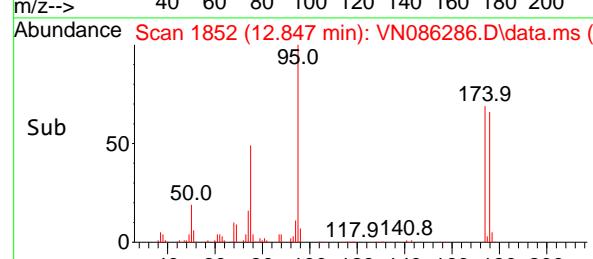
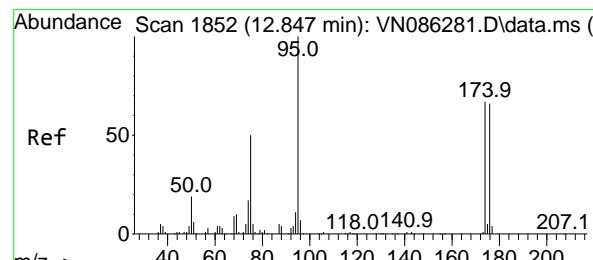
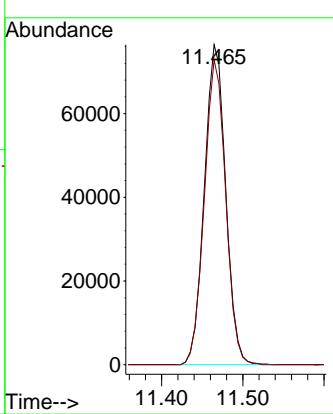


#61
1,2-Dibromoethane
Concen: 48.111 ug/l
RT: 11.465 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

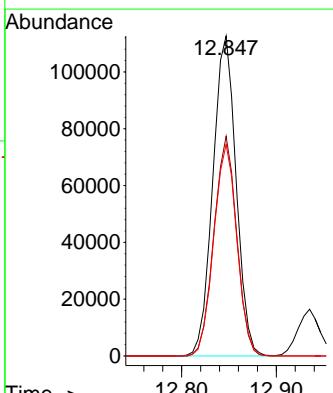
Manual Integrations APPROVED

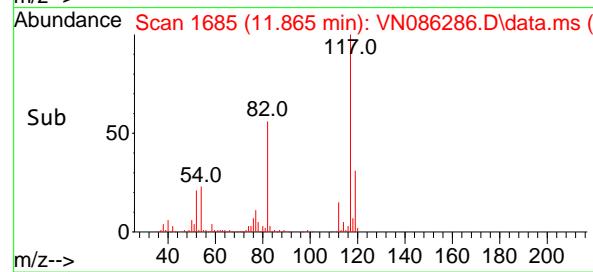
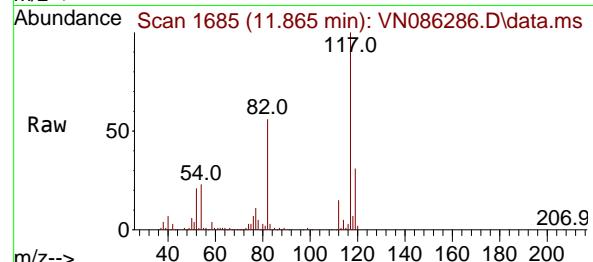
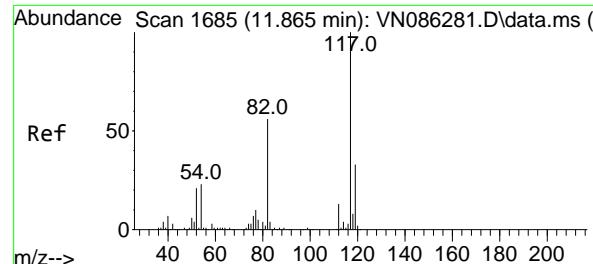
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#62
4-Bromofluorobenzene
Concen: 49.374 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

Tgt Ion: 95 Resp: 192478
Ion Ratio Lower Upper
95 100
174 67.1 0.0 133.4
176 65.4 0.0 129.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

Instrument:

MSVOA_N

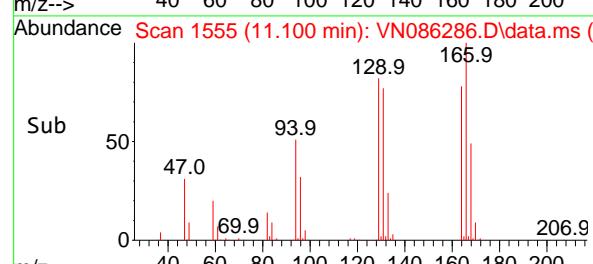
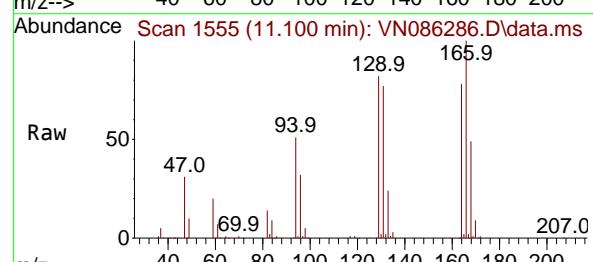
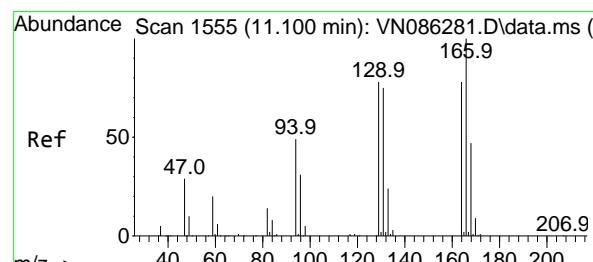
ClientSampleId :

VSTDCCC050

| Tgt | Ion:117 | Resp: | 38356 |
|-----|-----------|-------|-------|
| | Ion Ratio | Lower | Upper |
| 117 | 100 | | |
| 82 | 55.7 | 44.7 | 67.1 |
| 119 | 31.0 | 26.4 | 39.6 |

Manual Integrations APPROVED

Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#64

Tetrachloroethene

Concen: 49.433 ug/l

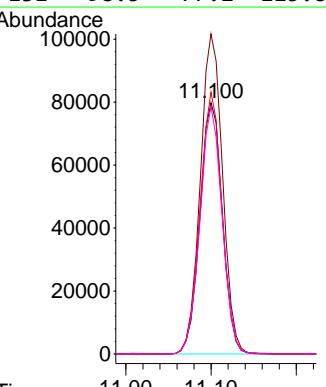
RT: 11.100 min Scan# 1555

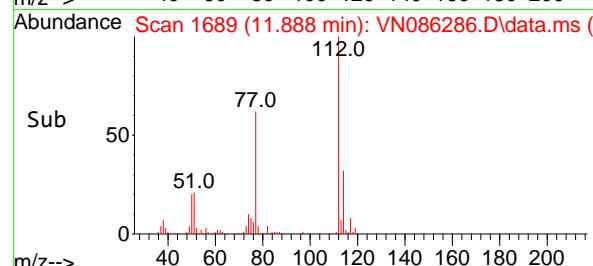
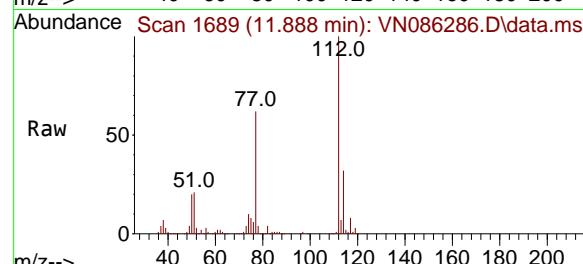
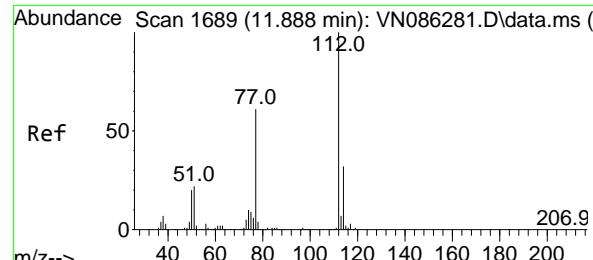
Delta R.T. -0.000 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

| Tgt | Ion:164 | Resp: | 145847 |
|-----|-----------|-------|--------|
| | Ion Ratio | Lower | Upper |
| 164 | 100 | | |
| 166 | 127.4 | 103.0 | 154.4 |
| 129 | 104.2 | 80.1 | 120.1 |
| 131 | 98.5 | 77.2 | 115.8 |



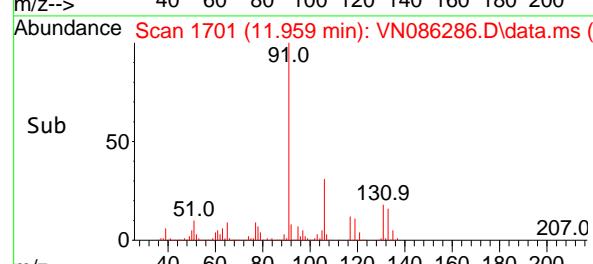
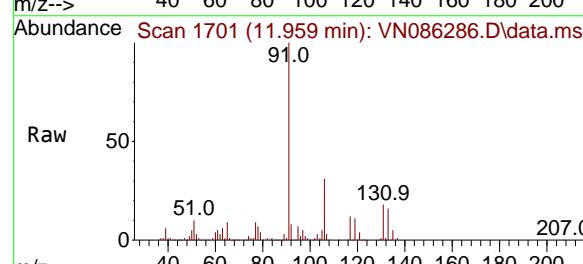
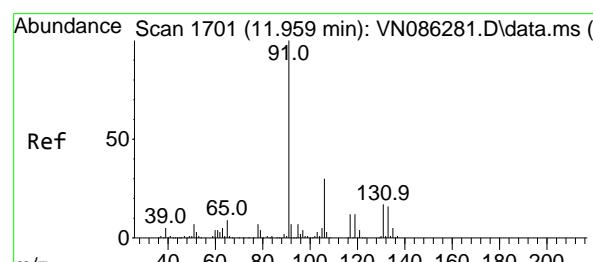
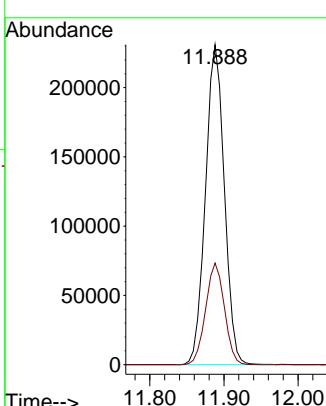


#65
Chlorobenzene
Concen: 47.653 ug/l
RT: 11.888 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

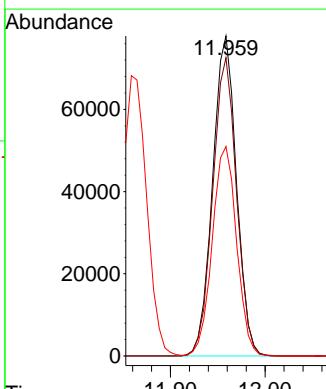
Manual Integrations APPROVED

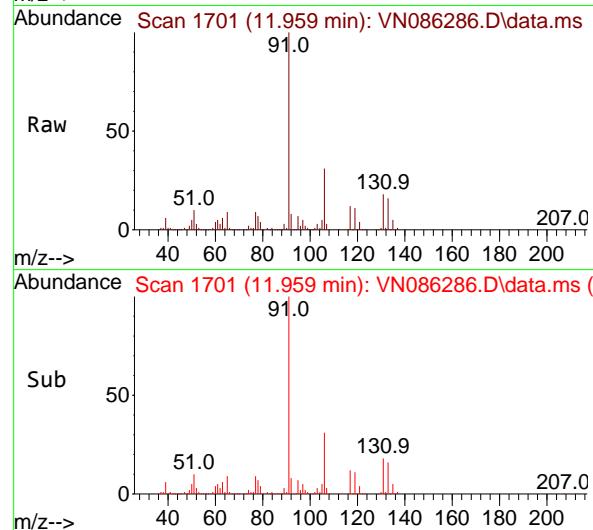
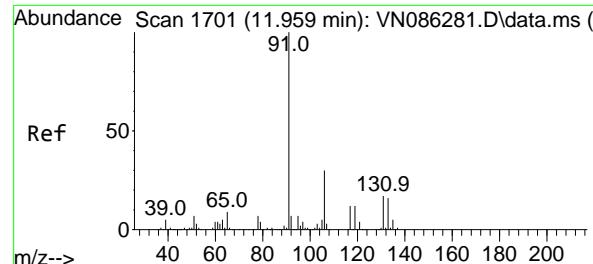
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 48.194 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

Tgt Ion:131 Resp: 136092
Ion Ratio Lower Upper
131 100
133 93.3 47.1 141.3
119 66.9 33.8 101.4





#67

Ethyl Benzene

Concen: 48.077 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

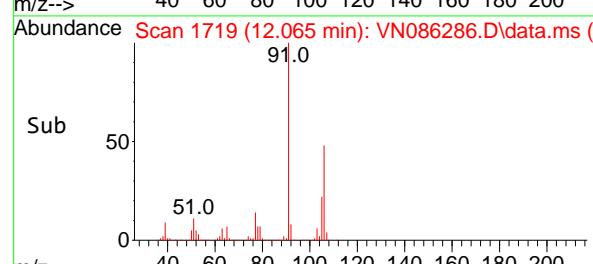
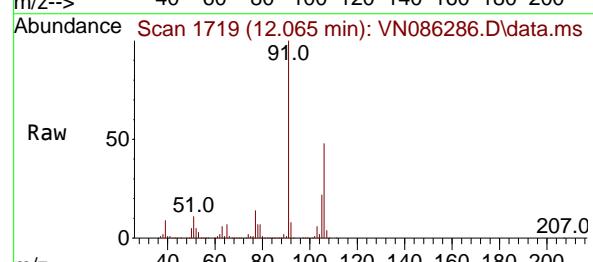
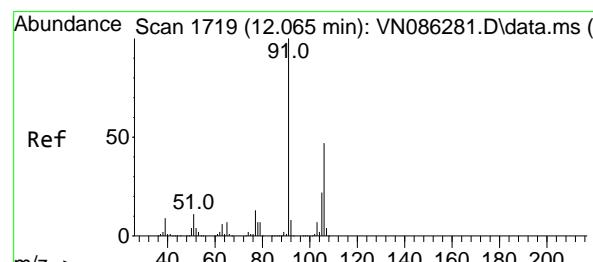
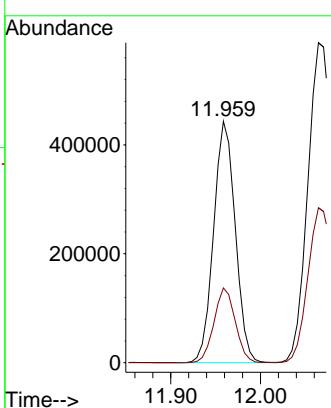
Instrument:

MSVOA_N

ClientSampleId :

VSTDCCC050

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/17/2025
 Supervised By :Mahesh Dadoda 04/17/2025


#68

m/p-Xylenes

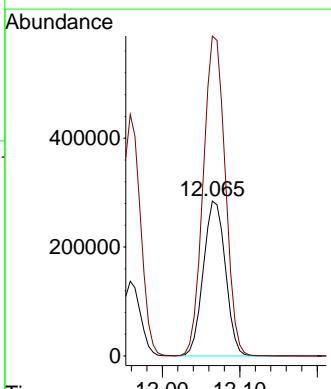
Concen: 97.152 ug/l

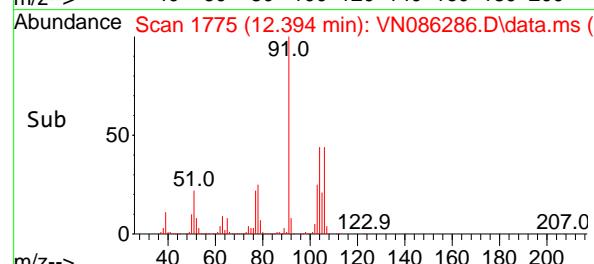
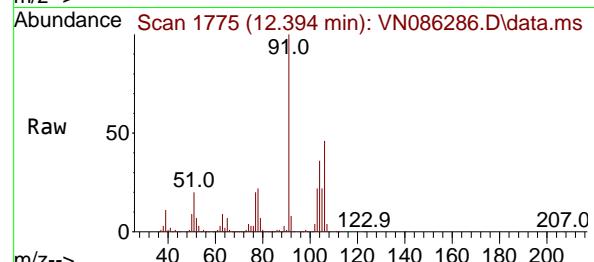
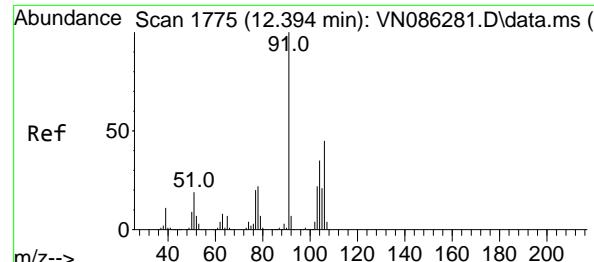
RT: 12.065 min Scan# 1719

Delta R.T. -0.000 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

 Tgt Ion:106 Resp: 562291
 Ion Ratio Lower Upper
 106 100
 91 206.0 166.5 249.7


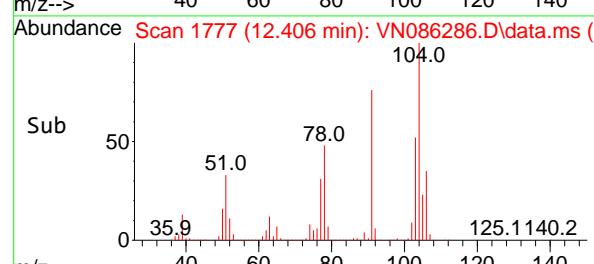
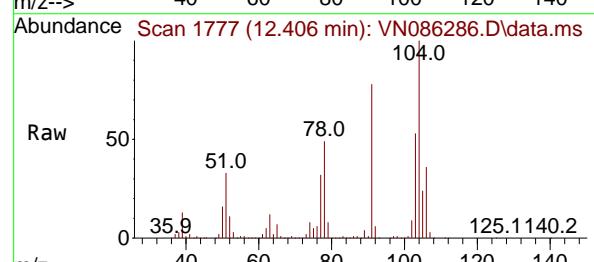
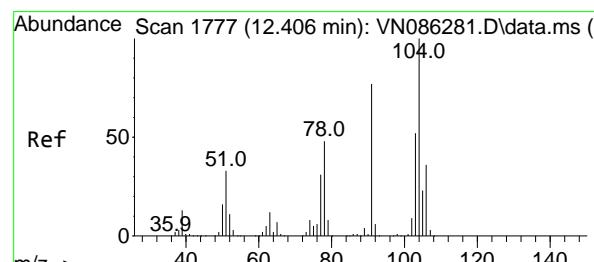
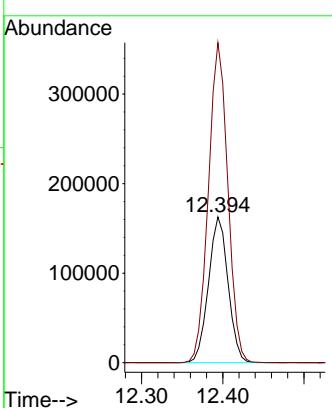


#69
o-Xylene
Concen: 47.691 ug/l
RT: 12.394 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

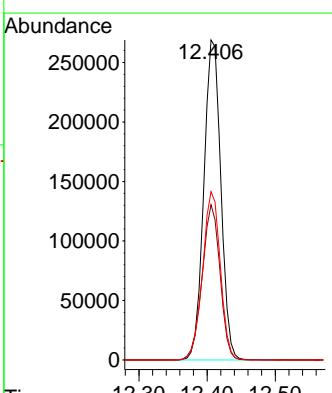
Manual Integrations APPROVED

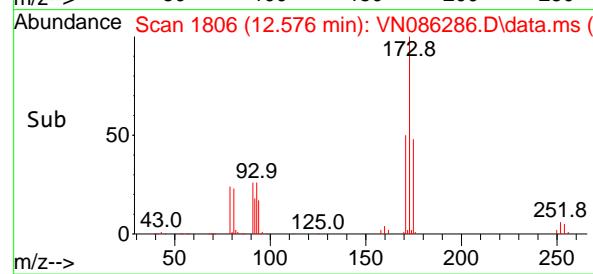
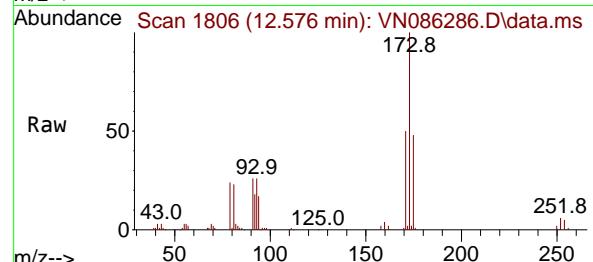
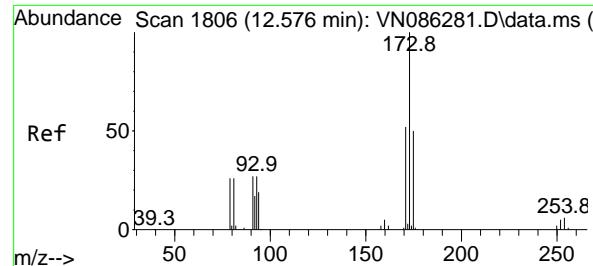
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#70
Styrene
Concen: 49.048 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

Tgt Ion:104 Resp: 467765
Ion Ratio Lower Upper
104 100
78 50.7 40.6 61.0
103 54.6 43.6 65.4





#71

Bromoform

Concen: 48.243 ug/l

RT: 12.576 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

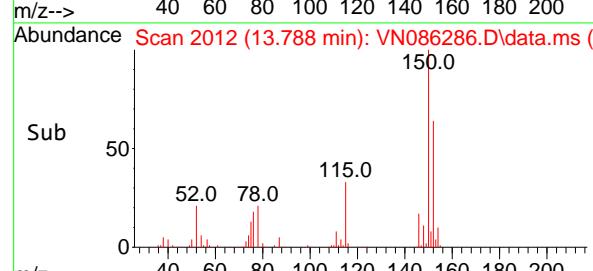
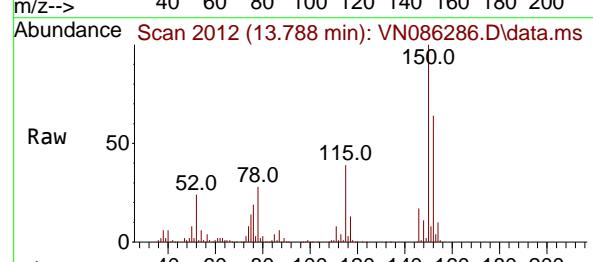
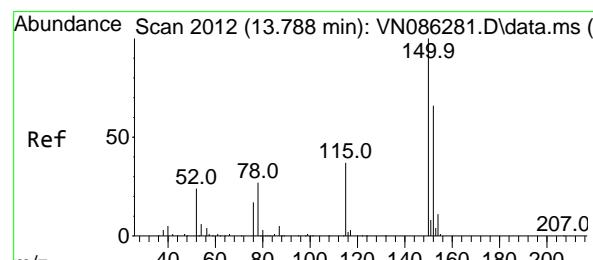
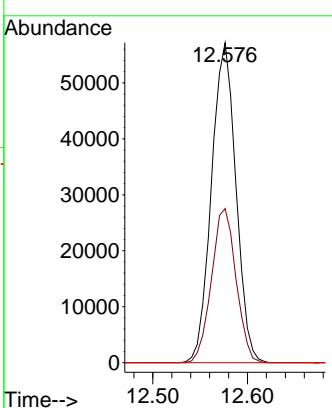
Instrument:

MSVOA_N

ClientSampleId :

VSTDCCC050

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/17/2025
 Supervised By :Mahesh Dadoda 04/17/2025


#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.000 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

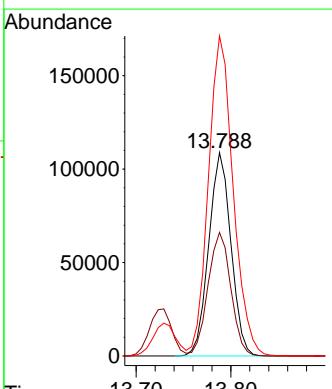
Tgt Ion:152 Resp: 177295

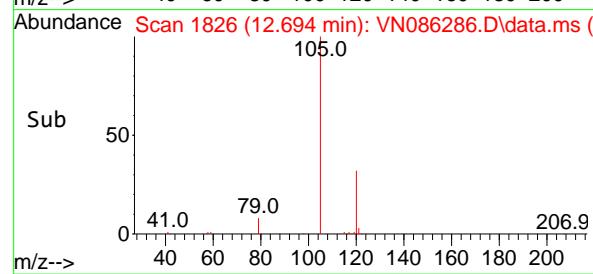
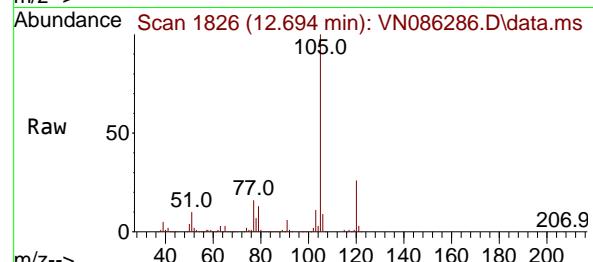
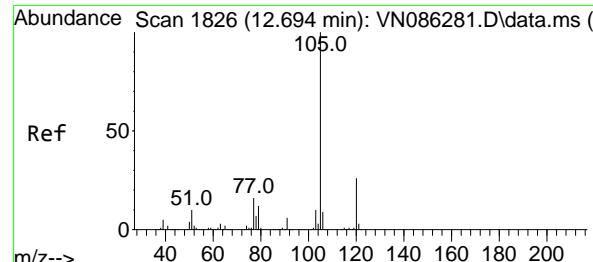
Ion Ratio Lower Upper

152 100

115 62.5 31.9 95.9

150 175.3 0.0 352.0





#73

Isopropylbenzene

Concen: 46.758 ug/l

RT: 12.694 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

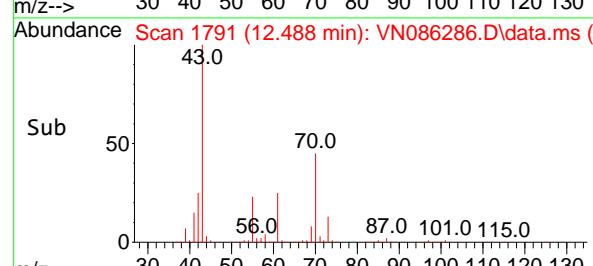
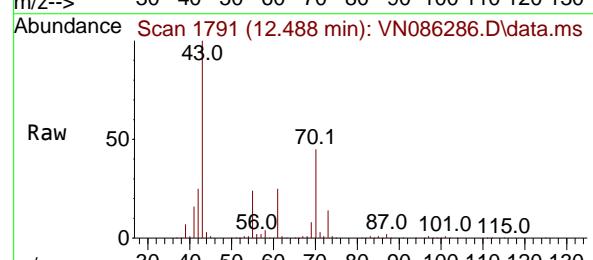
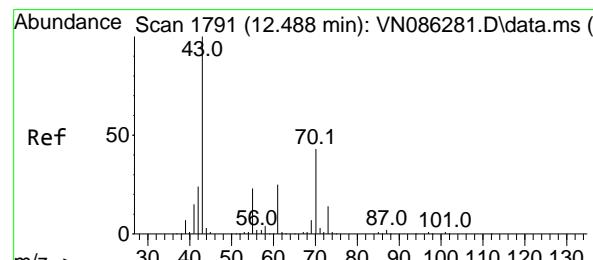
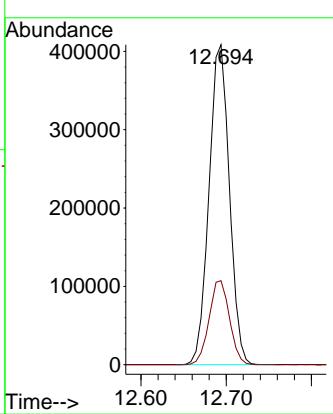
Instrument:

MSVOA_N

ClientSampleId :

VSTDCCC050

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/17/2025
 Supervised By :Mahesh Dadoda 04/17/2025


#74

N-amyl acetate

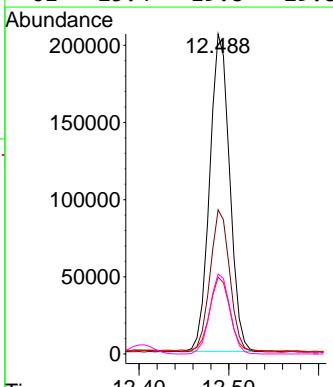
Concen: 44.026 ug/l

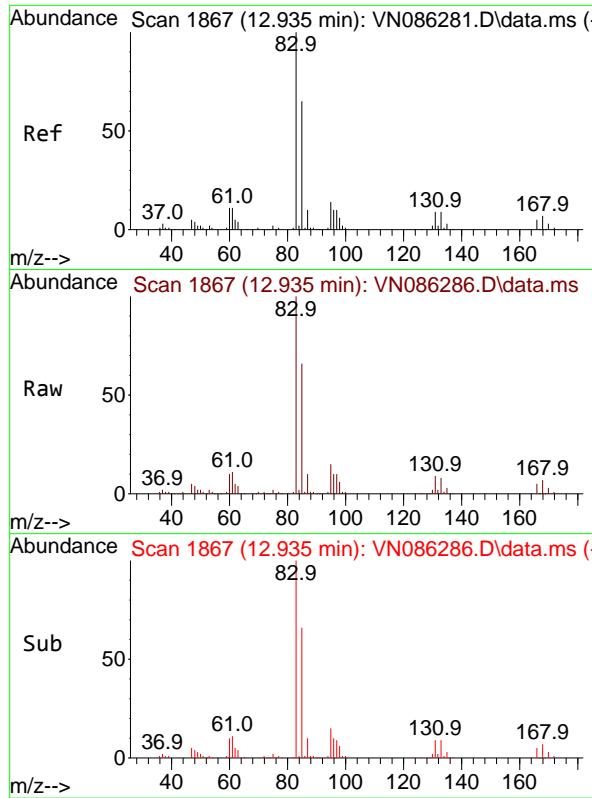
RT: 12.488 min Scan# 1791

Delta R.T. -0.000 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

 Tgt Ion: 43 Resp: 317872
 Ion Ratio Lower Upper
 43 100
 70 44.5 35.0 52.4
 55 24.5 19.0 28.4
 61 25.4 19.8 29.8


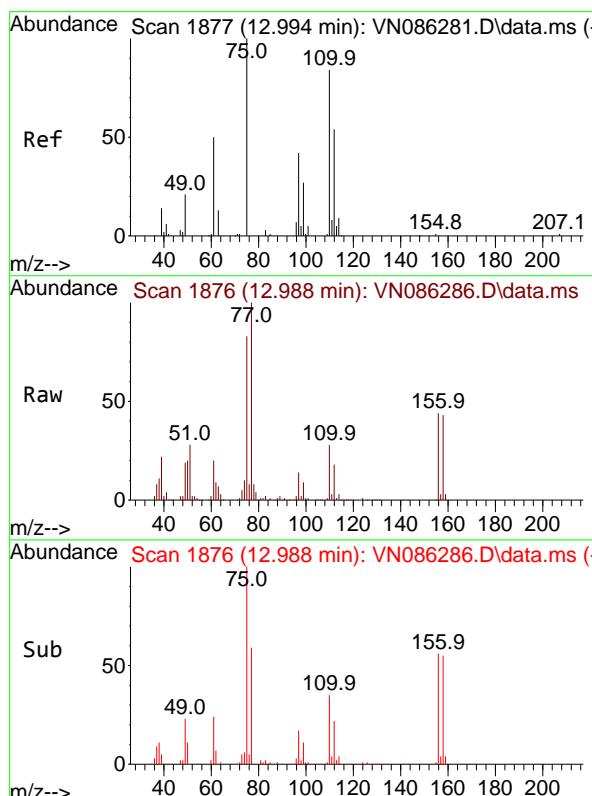
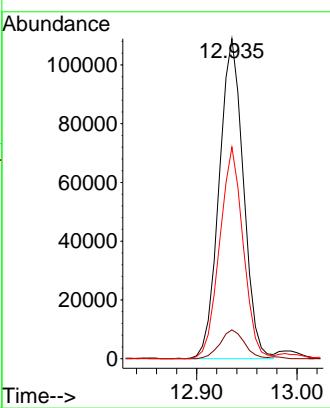


#75
1,1,2,2-Tetrachloroethane
Concen: 43.857 ug/l
RT: 12.935 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

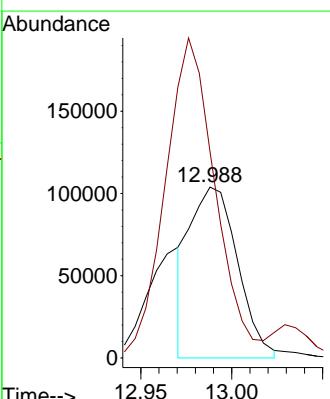
Manual Integrations APPROVED

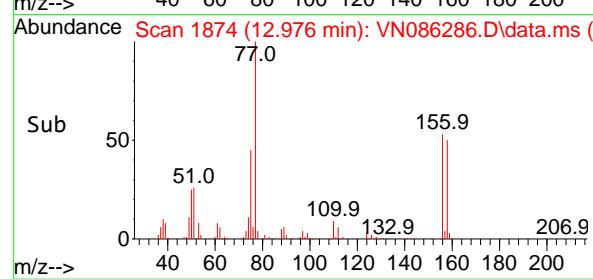
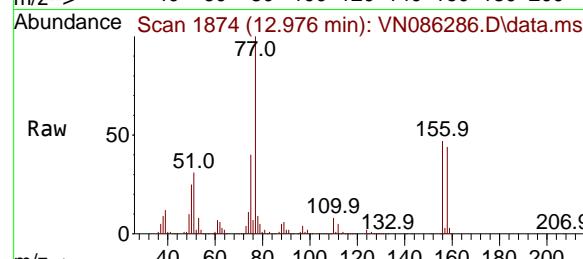
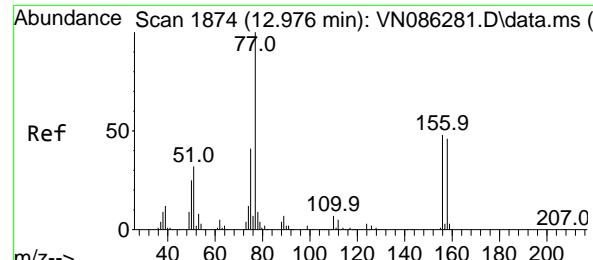
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#76
1,2,3-Trichloropropane
Concen: 45.063 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. -0.006 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

| Tgt | Ion: | 75 | Resp: | 188539 |
|-----|-------|------|-------|--------|
| Ion | Ratio | | Lower | Upper |
| 75 | 100 | | | |
| 77 | 197.8 | 98.8 | 296.4 | |





#77

Bromobenzene

Concen: 47.562 ug/l

RT: 12.976 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

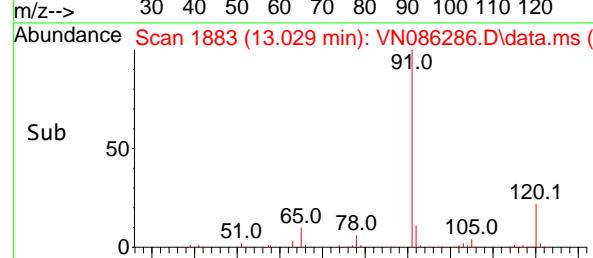
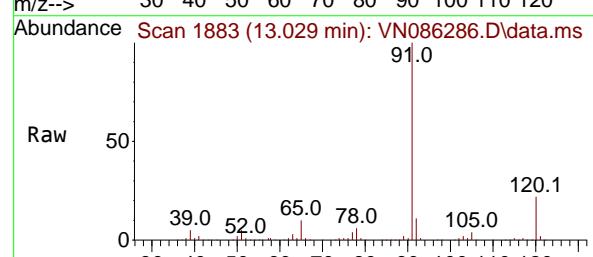
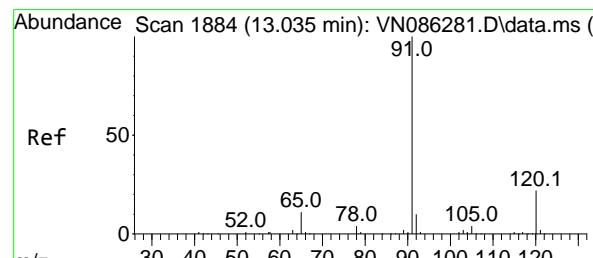
Instrument:

MSVOA_N

ClientSampleId :

VSTDCCC050

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/17/2025
 Supervised By :Mahesh Dadoda 04/17/2025


#78

n-propylbenzene

Concen: 47.620 ug/l

RT: 13.029 min Scan# 1883

Delta R.T. -0.006 min

Lab File: VN086286.D

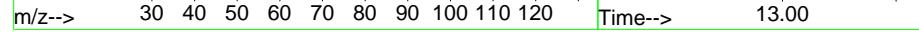
Acq: 16 Apr 2025 09:14

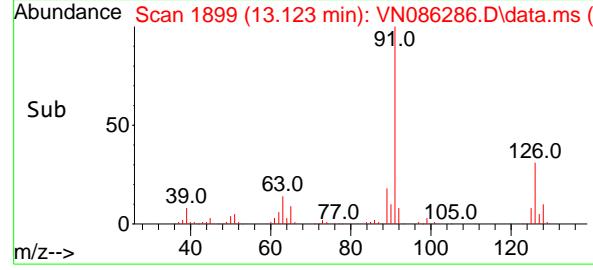
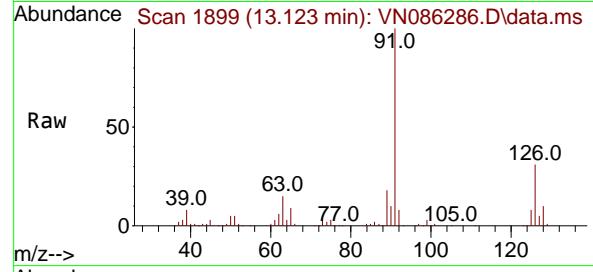
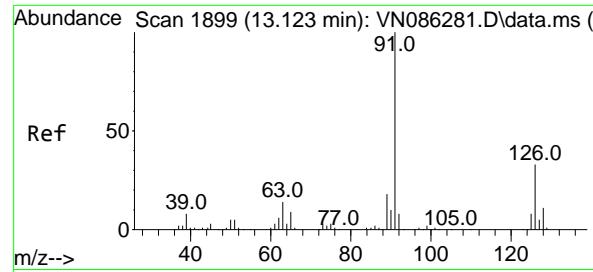
Tgt Ion: 91 Resp: 813823

Ion Ratio Lower Upper

91 100

120 22.2 11.1 33.3





#79

2-Chlorotoluene

Concen: 46.847 ug/l

RT: 13.123 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

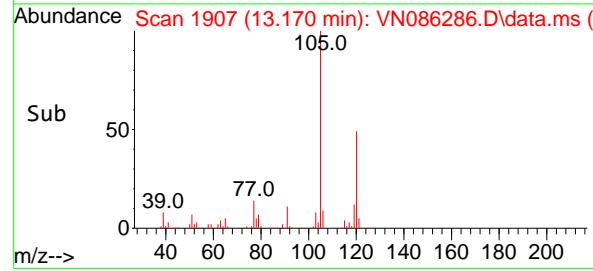
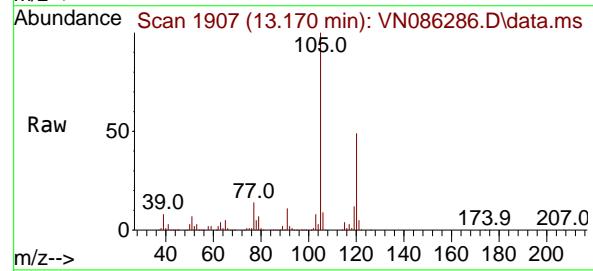
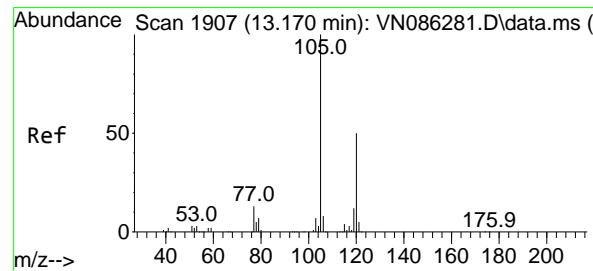
Instrument:

MSVOA_N

ClientSampleId :

VSTDCCC050

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/17/2025
 Supervised By :Mahesh Dadoda 04/17/2025


#80

1,3,5-Trimethylbenzene

Concen: 47.184 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VN086286.D

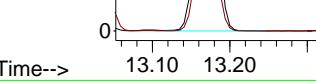
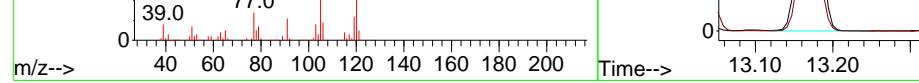
Acq: 16 Apr 2025 09:14

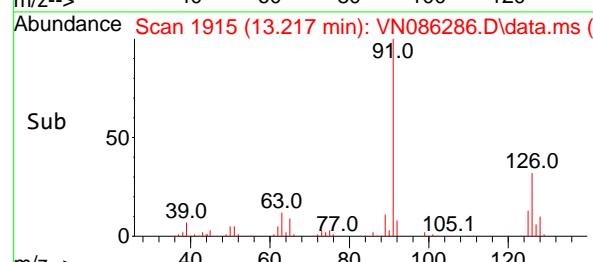
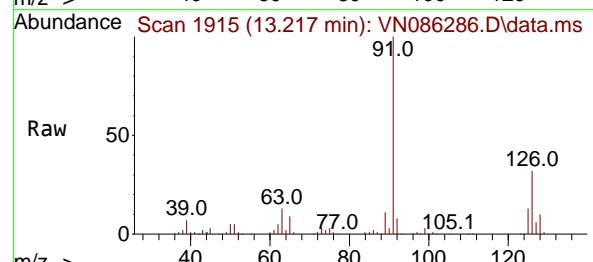
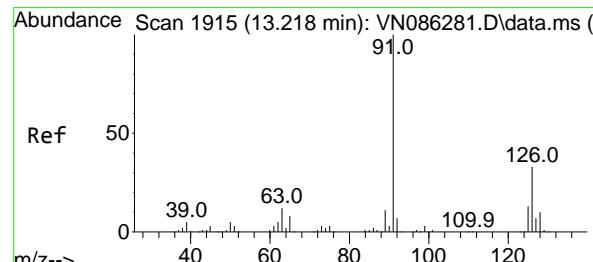
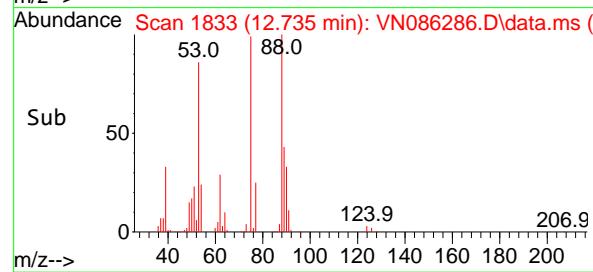
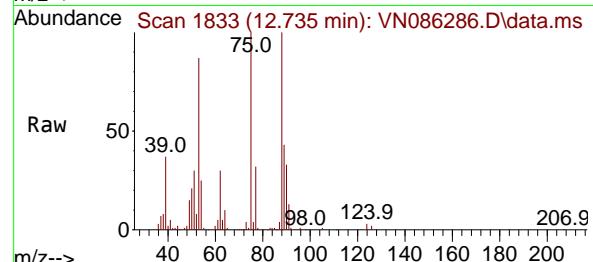
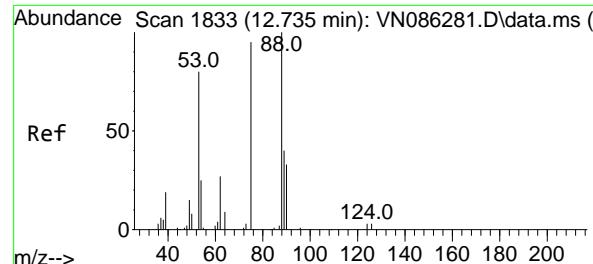
Tgt Ion:105 Resp: 560090

Ion Ratio Lower Upper

105 100

120 48.7 24.5 73.5





#81

trans-1,4-Dichloro-2-butene

Concen: 52.918 ug/l

RT: 12.735 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

Instrument:

MSVOA_N

ClientSampleId :

VSTDCCCC050

Tgt Ion: 75 Resp: 92189

Ion Ratio Lower Upper

75 100

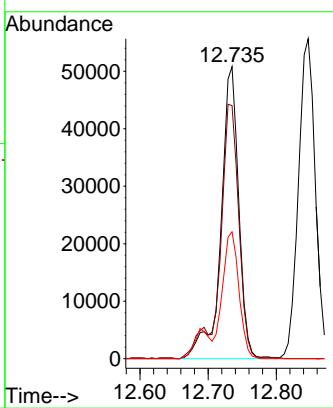
53 92.2 79.2 118.8

89 40.4 35.7 53.5

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#82

4-Chlorotoluene

Concen: 47.693 ug/l

RT: 13.217 min Scan# 1915

Delta R.T. -0.000 min

Lab File: VN086286.D

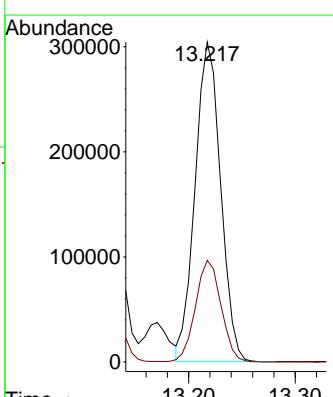
Acq: 16 Apr 2025 09:14

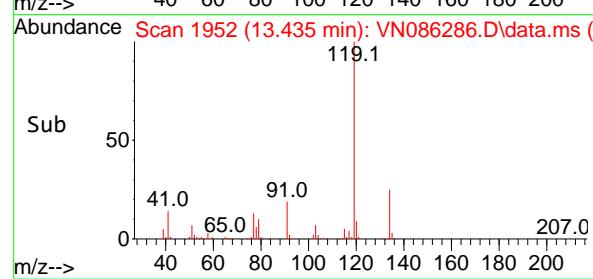
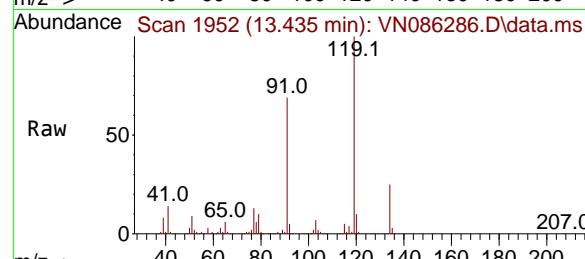
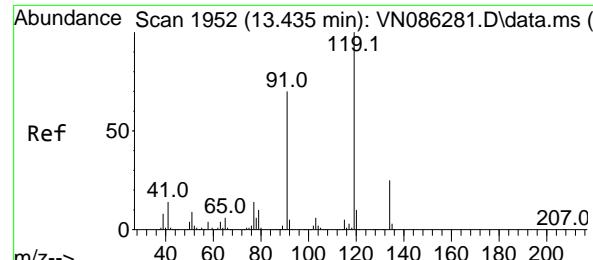
Tgt Ion: 91 Resp: 506641

Ion Ratio Lower Upper

91 100

126 31.9 16.2 48.6





#83

tert-Butylbenzene

Concen: 45.479 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. -0.000 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

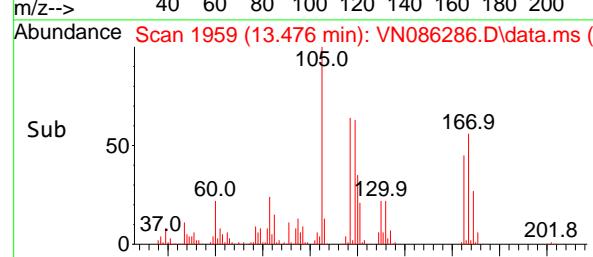
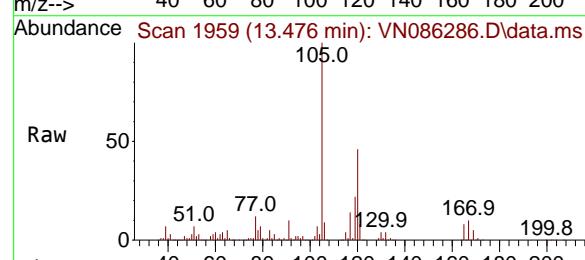
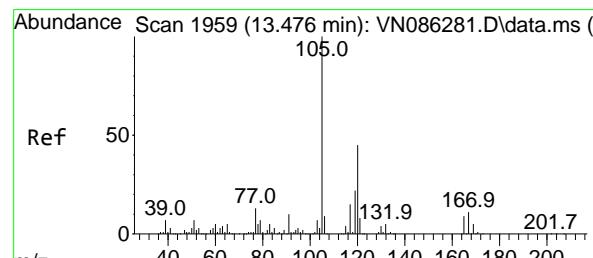
Instrument:

MSVOA_N

ClientSampleId :

VSTDCCC050

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/17/2025
 Supervised By :Mahesh Dadoda 04/17/2025


#84

1,2,4-Trimethylbenzene

Concen: 47.478 ug/l

RT: 13.476 min Scan# 1959

Delta R.T. -0.000 min

Lab File: VN086286.D

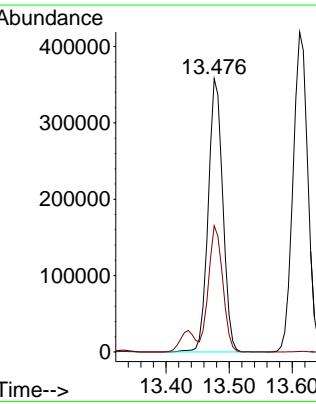
Acq: 16 Apr 2025 09:14

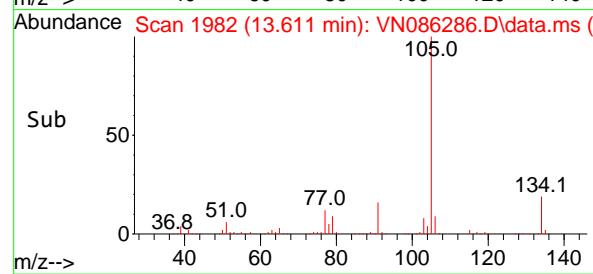
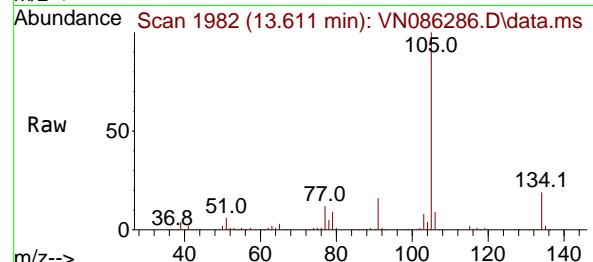
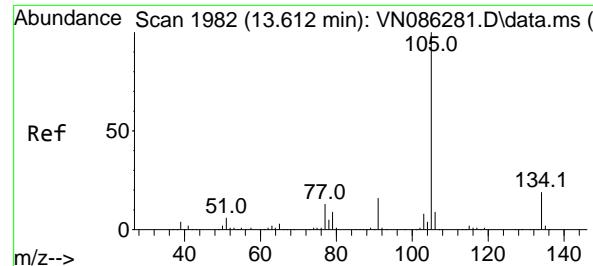
Tgt Ion:105 Resp: 573671

Ion Ratio Lower Upper

105 100

120 45.1 22.4 67.3





#85

sec-Butylbenzene

Concen: 47.611 ug/l

RT: 13.611 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086286.D

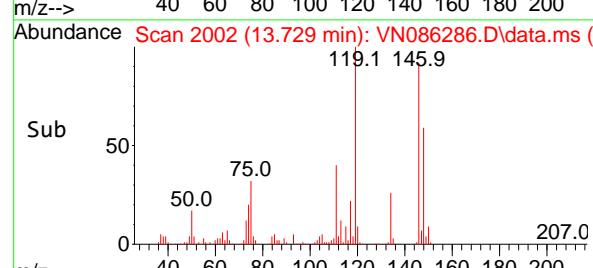
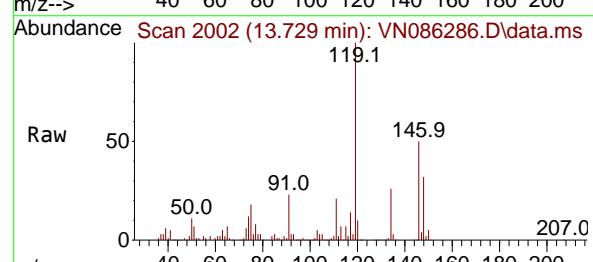
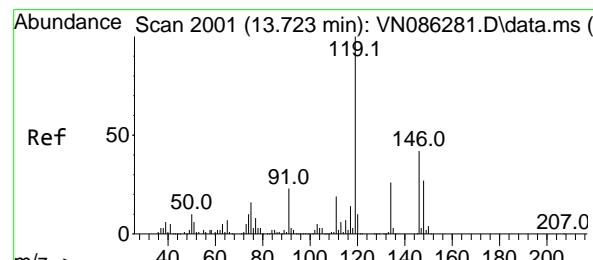
Acq: 16 Apr 2025 09:14

Instrument:

MSVOA_N

ClientSampleId :

VSTDCCC050

**Manual Integrations
APPROVED**
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

#86

p-Isopropyltoluene

Concen: 48.608 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.006 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

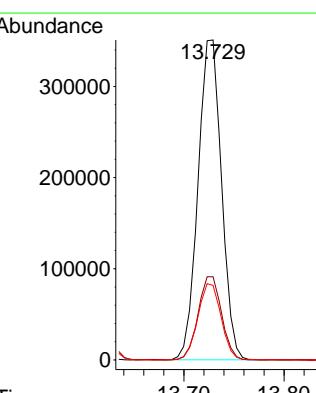
Tgt Ion:119 Resp: 571595

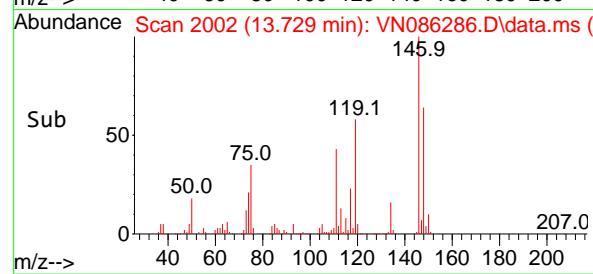
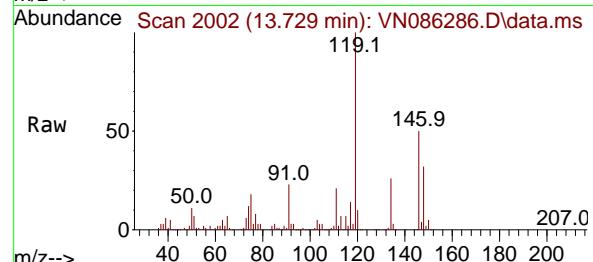
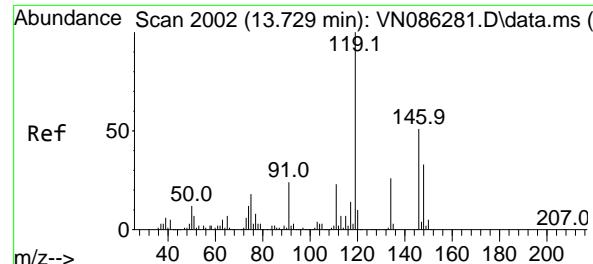
Ion Ratio Lower Upper

119 100

134 26.1 13.1 39.1

91 23.7 11.9 35.9





#87

1,3-Dichlorobenzene

Concen: 48.303 ug/l

RT: 13.729 min Scan# 2

Delta R.T. -0.000 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

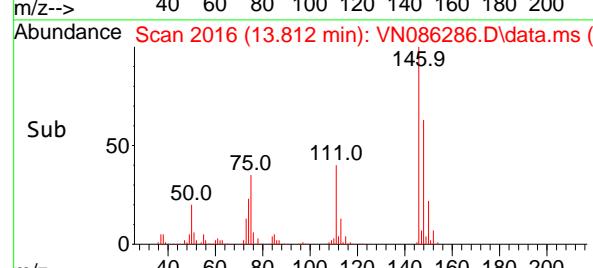
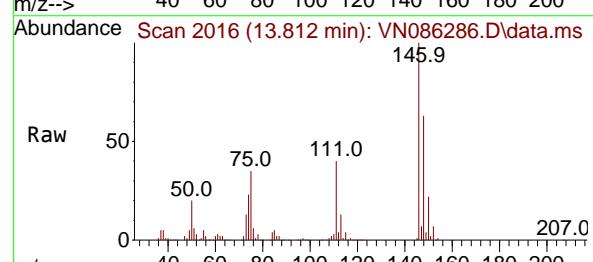
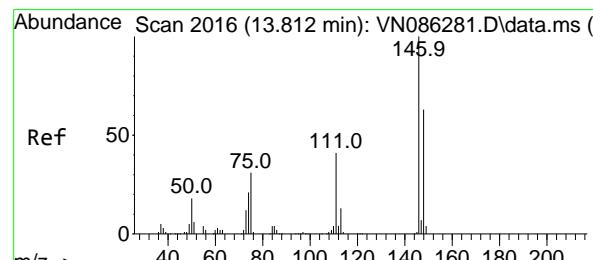
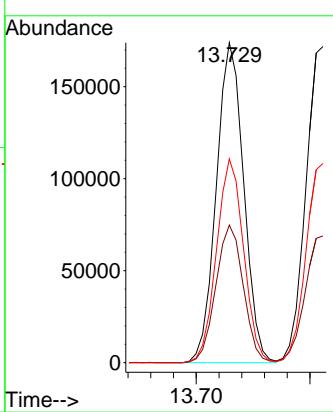
Instrument:

MSVOA_N

ClientSampleId :

VSTDCCC050

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/17/2025
 Supervised By :Mahesh Dadoda 04/17/2025


#88

1,4-Dichlorobenzene

Concen: 47.989 ug/l

RT: 13.812 min Scan# 2016

Delta R.T. -0.000 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

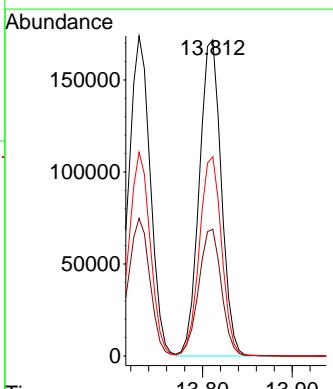
Tgt Ion:146 Resp: 291992

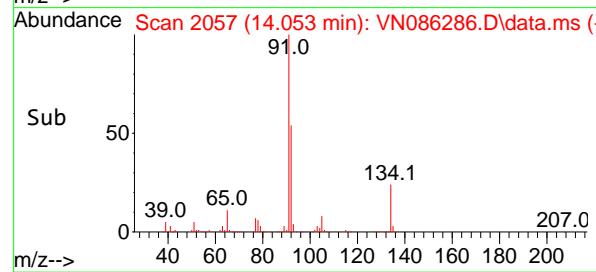
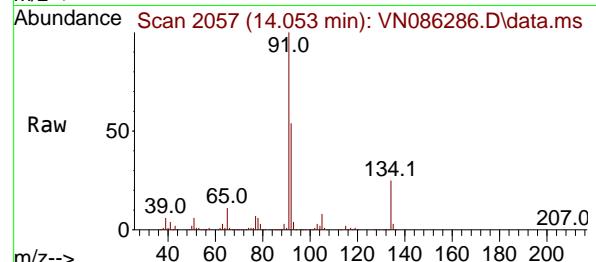
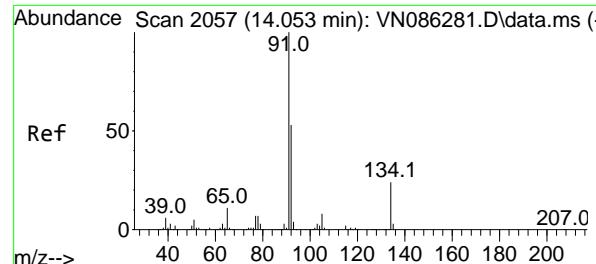
Ion Ratio Lower Upper

146 100

111 41.7 21.3 63.9

148 63.7 31.9 95.9





#89

n-Butylbenzene

Concen: 49.219 ug/l

RT: 14.053 min Scan# 2

Instrument:

MSVOA_N

Delta R.T. -0.000 min

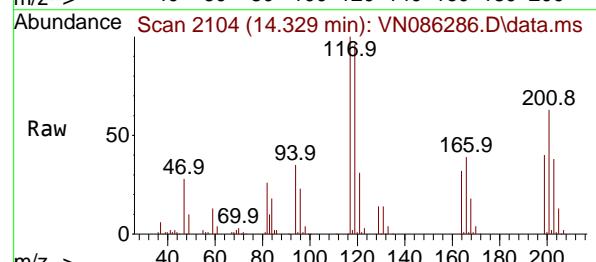
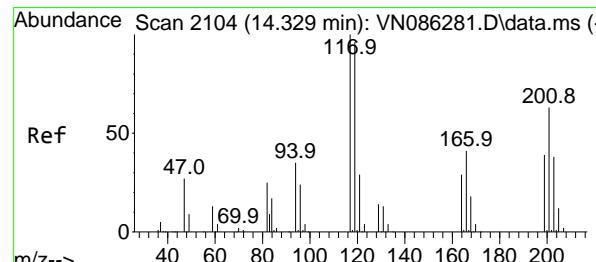
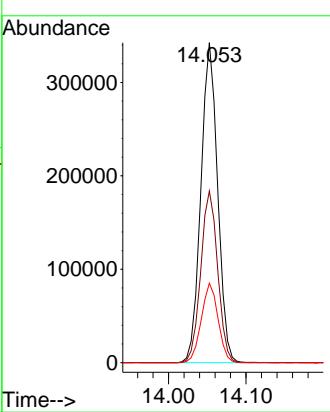
Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

ClientSampleId:

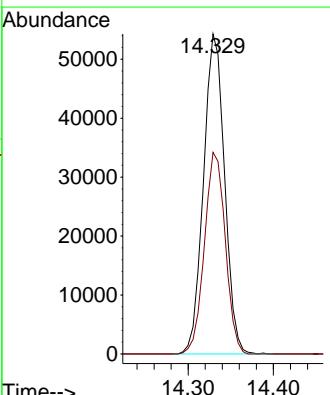
VSTDCCC050

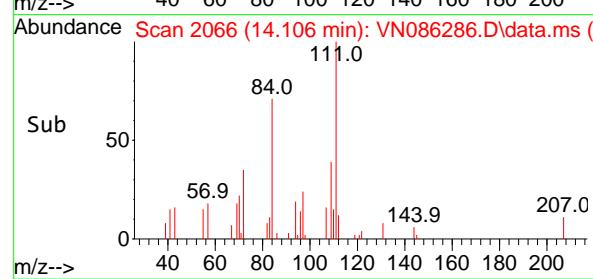
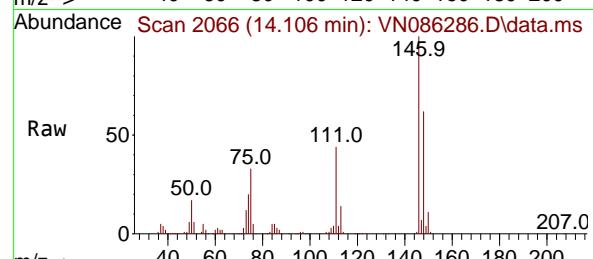
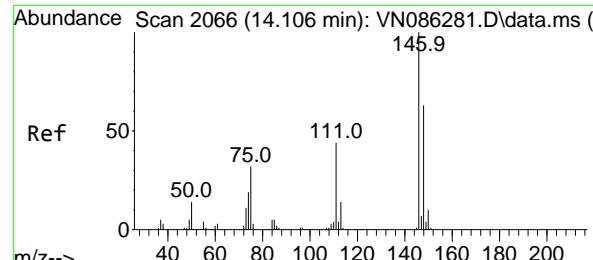
**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/17/2025
 Supervised By :Mahesh Dadoda 04/17/2025


#90
Hexachloroethane
Concen: 47.120 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

Tgt Ion:117 Resp: 93202
Ion Ratio Lower Upper
117 100
201 62.5 31.4 94.2





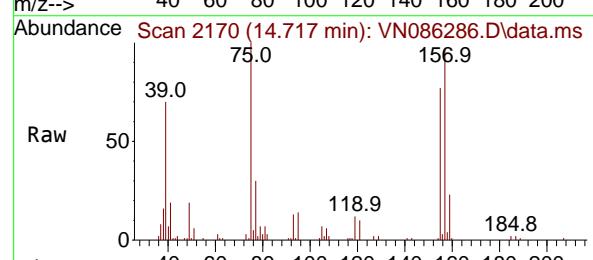
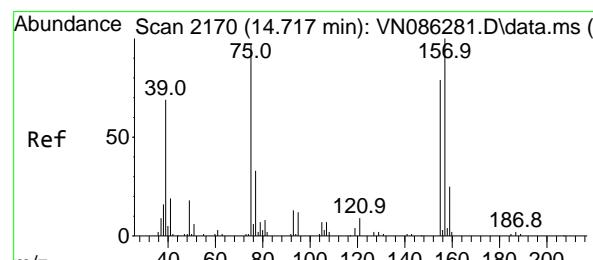
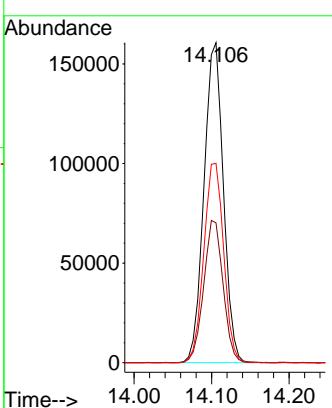
#91

1,2-Dichlorobenzene
Concen: 47.687 ug/l
RT: 14.106 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

Instrument : MSVOA_N
ClientSampleId : VSTDCCC050

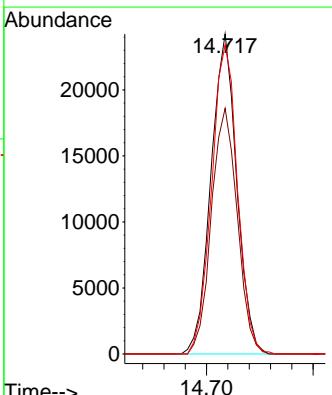
Manual Integrations APPROVED

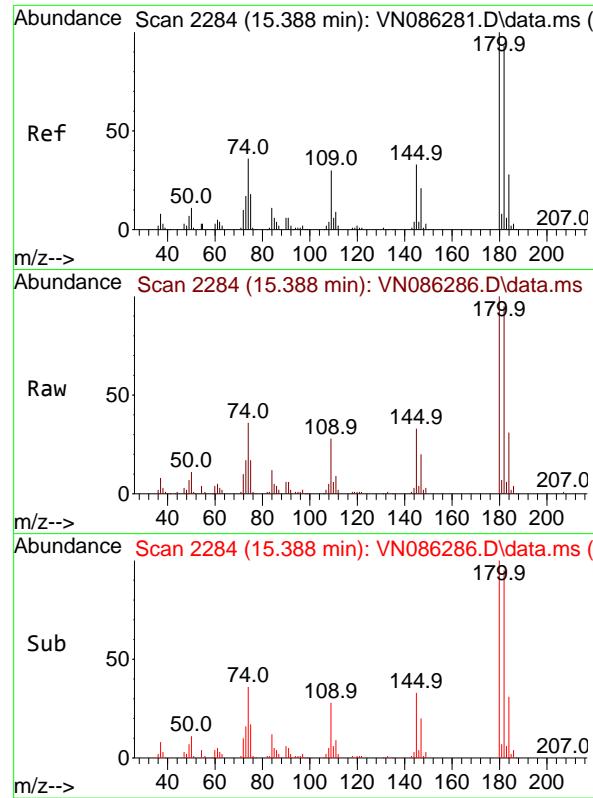
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 48.367 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

Tgt Ion: 75 Resp: 40668
Ion Ratio Lower Upper
75 100
155 77.2 40.3 120.9
157 97.0 49.0 147.2



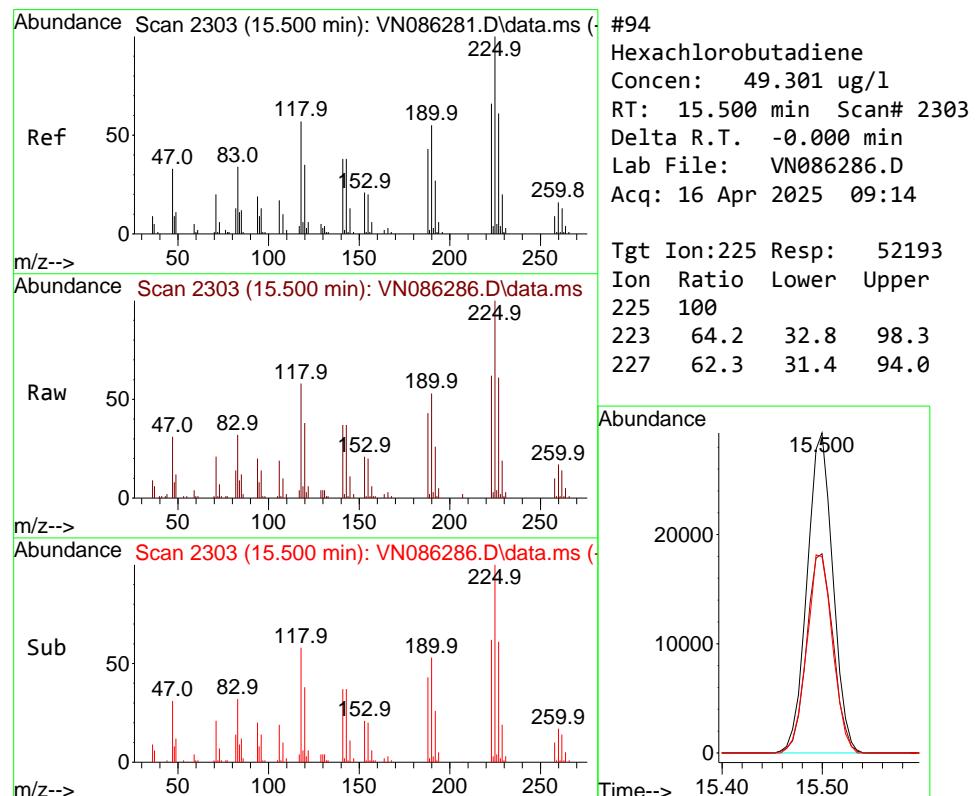
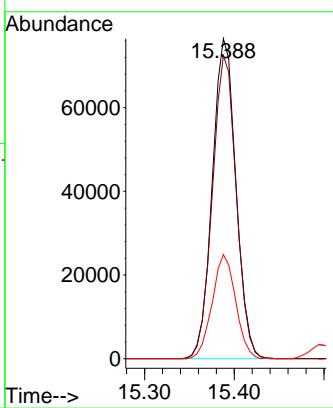


#93
1,2,4-Trichlorobenzene
Concen: 49.814 ug/l
RT: 15.388 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

Instrument : MSVOA_N
ClientSampleId : VSTDCCC050

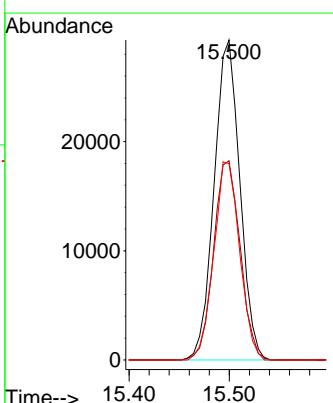
Manual Integrations
APPROVED

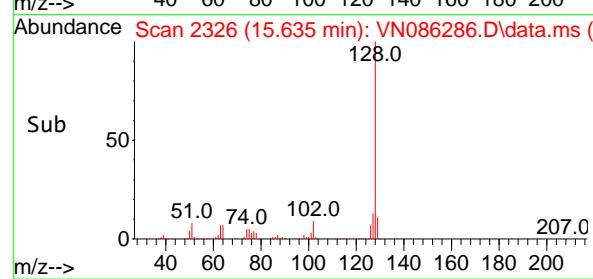
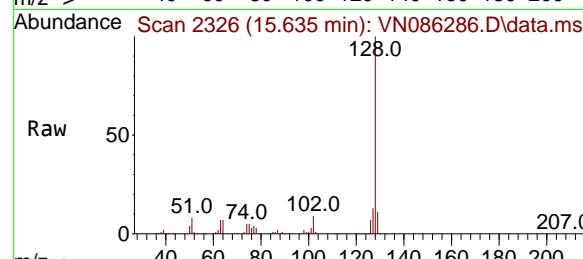
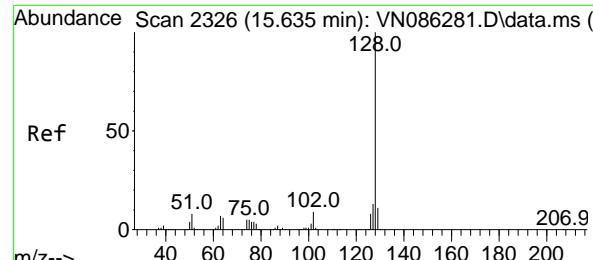
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#94
Hexachlorobutadiene
Concen: 49.301 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

Tgt Ion:225 Resp: 52193
Ion Ratio Lower Upper
225 100
223 64.2 32.8 98.3
227 62.3 31.4 94.0





#95

Naphthalene

Concen: 48.334 ug/l

RT: 15.635 min Scan# 2326

Delta R.T. -0.000 min

Lab File: VN086286.D

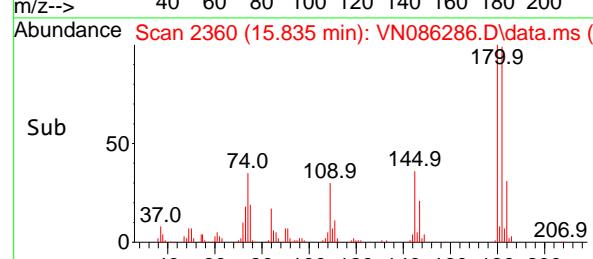
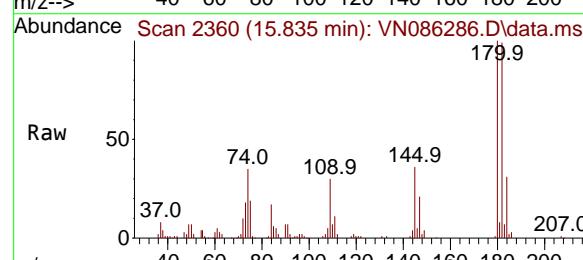
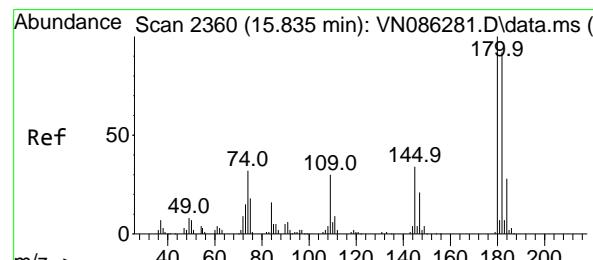
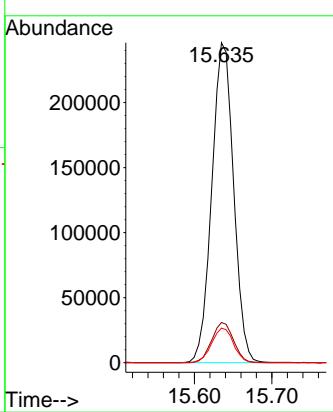
Acq: 16 Apr 2025 09:14

Instrument:

MSVOA_N

ClientSampleId :

VSTDCCC050

**Manual Integrations
APPROVED**
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

#96

1,2,3-Trichlorobenzene

Concen: 48.020 ug/l

RT: 15.835 min Scan# 2360

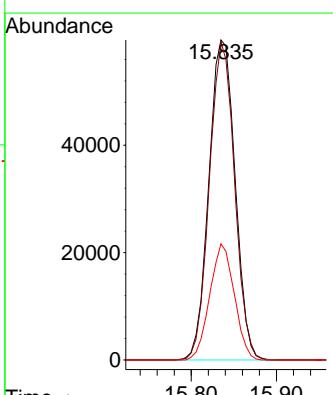
Delta R.T. -0.000 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

Tgt Ion:180 Resp: 127501

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 180 | 100 | | |
| 182 | 95.4 | 47.3 | 142.0 |
| 145 | 33.9 | 17.2 | 51.5 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
 Data File : VN086286.D
 Acq On : 16 Apr 2025 09:14
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Apr 17 03:04:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 04:19:23 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I | Pentafluorobenzene | 1.000 | 1.000 | 0.0 | 105 | 0.00 |
| 2 T | Dichlorodifluoromethane | 0.593 | 0.593 | 0.0 | 106 | 0.00 |
| 3 P | Chloromethane | 0.861 | 0.798 | 7.3 | 112 | 0.00 |
| 4 C | Vinyl Chloride | 0.822 | 0.791 | 3.8# | 106 | 0.00 |
| 5 T | Bromomethane | 0.370 | 0.377 | -1.9 | 112 | 0.00 |
| 6 T | Chloroethane | 0.550 | 0.507 | 7.8 | 107 | 0.00 |
| 7 T | Trichlorofluoromethane | 0.911 | 0.878 | 3.6 | 107 | 0.00 |
| 8 T | Diethyl Ether | 0.398 | 0.376 | 5.5 | 106 | 0.00 |
| 9 T | 1,1,2-Trichlorotrifluoroeth | 0.551 | 0.537 | 2.5 | 108 | 0.00 |
| 10 T | Methyl Iodide | 0.606 | 0.647 | -6.8 | 114 | 0.00 |
| 11 T | Tert butyl alcohol | 0.132 | 0.127 | 3.8 | 108 | 0.00 |
| 12 CM | 1,1-Dichloroethene | 0.588 | 0.555 | 5.6# | 106 | 0.00 |
| 13 T | Acrolein | 0.075 | 0.065 | 13.3 | 112 | 0.00 |
| 14 T | Allyl chloride | 1.046 | 0.956 | 8.6 | 109 | 0.00 |
| 15 T | Acrylonitrile | 0.327 | 0.315 | 3.7 | 105 | 0.00 |
| 16 T | Acetone | 0.290 | 0.254 | 12.4 | 107 | 0.00 |
| 17 T | Carbon Disulfide | 1.762 | 1.548 | 12.1 | 105 | 0.00 |
| 18 T | Methyl Acetate | 0.870 | 0.791 | 9.1 | 107 | 0.00 |
| 19 T | Methyl tert-butyl Ether | 2.163 | 2.003 | 7.4 | 105 | 0.00 |
| 20 T | Methylene Chloride | 0.670 | 0.625 | 6.7 | 107 | 0.00 |
| 21 T | trans-1,2-Dichloroethene | 0.615 | 0.577 | 6.2 | 106 | 0.00 |
| 22 T | Diisopropyl ether | 2.276 | 2.114 | 7.1 | 106 | 0.00 |
| 23 T | Vinyl Acetate | 1.591 | 1.482 | 6.9 | 105 | 0.00 |
| 24 P | 1,1-Dichloroethane | 1.201 | 1.141 | 5.0 | 106 | 0.00 |
| 25 T | 2-Butanone | 0.451 | 0.427 | 5.3 | 106 | 0.00 |
| 26 T | 2,2-Dichloropropane | 1.075 | 1.033 | 3.9 | 111 | 0.00 |
| 27 T | cis-1,2-Dichloroethene | 0.764 | 0.706 | 7.6 | 104 | 0.00 |
| 28 T | Bromochloromethane | 0.509 | 0.487 | 4.3 | 104 | 0.00 |
| 29 T | Tetrahydrofuran | 0.302 | 0.280 | 7.3 | 105 | 0.00 |
| 30 C | Chloroform | 1.180 | 1.101 | 6.7# | 105 | 0.00 |
| 31 T | Cyclohexane | 1.175 | 1.068 | 9.1 | 106 | 0.00 |
| 32 T | 1,1,1-Trichloroethane | 1.009 | 0.948 | 6.0 | 105 | 0.00 |
| 33 S | 1,2-Dichloroethane-d4 | 0.725 | 0.697 | 3.9 | 102 | 0.00 |
| 34 I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 104 | 0.00 |
| 35 S | Dibromofluoromethane | 0.232 | 0.214 | 7.8 | 104 | 0.00 |
| 36 T | 1,1-Dichloropropene | 0.463 | 0.449 | 3.0 | 105 | 0.00 |
| 37 T | Ethyl Acetate | 0.488 | 0.450 | 7.8 | 105 | 0.00 |
| 38 T | Carbon Tetrachloride | 0.441 | 0.430 | 2.5 | 106 | 0.00 |
| 39 T | Methylcyclohexane | 0.551 | 0.536 | 2.7 | 106 | 0.00 |
| 40 TM | Benzene | 1.485 | 1.423 | 4.2 | 105 | 0.00 |
| 41 T | Methacrylonitrile | 0.283 | 0.265 | 6.4 | 104 | 0.00 |
| 42 TM | 1,2-Dichloroethane | 0.474 | 0.454 | 4.2 | 106 | 0.00 |
| 43 T | Isopropyl Acetate | 1.177 | 0.840 | 28.6# | 101 | 0.00 |
| 44 TM | Trichloroethene | 0.352 | 0.351 | 0.3 | 108 | 0.00 |
| 45 C | 1,2-Dichloropropane | 0.364 | 0.350 | 3.8# | 104 | 0.00 |
| 46 T | Dibromomethane | 0.232 | 0.227 | 2.2 | 104 | 0.00 |
| 47 T | Bromodichloromethane | 0.500 | 0.486 | 2.8 | 106 | 0.00 |
| 48 T | Methyl methacrylate | 0.429 | 0.395 | 7.9 | 104 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
 Data File : VN086286.D
 Acq On : 16 Apr 2025 09:14
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Apr 17 03:04:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 04:19:23 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|------|-------|----------|
| 49 T | 1,4-Dioxane | 0.007 | 0.007 | 0.0 | 111 | 0.00 |
| 50 S | Toluene-d8 | 1.240 | 1.219 | 1.7 | 101 | 0.00 |
| 51 T | 4-Methyl-2-Pentanone | 0.500 | 0.480 | 4.0 | 103 | 0.00 |
| 52 CM | Toluene | 0.927 | 0.895 | 3.5# | 104 | 0.00 |
| 53 T | t-1,3-Dichloropropene | 0.558 | 0.554 | 0.7 | 105 | 0.00 |
| 54 T | cis-1,3-Dichloropropene | 0.613 | 0.590 | 3.8 | 107 | 0.00 |
| 55 T | 1,1,2-Trichloroethane | 0.333 | 0.318 | 4.5 | 104 | 0.00 |
| 56 T | Ethyl methacrylate | 0.613 | 0.591 | 3.6 | 106 | 0.00 |
| 57 T | 1,3-Dichloropropane | 0.592 | 0.572 | 3.4 | 105 | 0.00 |
| 58 T | 2-Chloroethyl Vinyl ether | 0.291 | 0.285 | 2.1 | 103 | 0.00 |
| 59 T | 2-Hexanone | 0.371 | 0.358 | 3.5 | 105 | 0.00 |
| 60 T | Dibromochloromethane | 0.366 | 0.357 | 2.5 | 105 | 0.00 |
| 61 T | 1,2-Dibromoethane | 0.336 | 0.324 | 3.6 | 104 | 0.00 |
| 62 S | 4-Bromofluorobenzene | 0.452 | 0.447 | 1.1 | 101 | 0.00 |
| 63 I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 104 | 0.00 |
| 64 T | Tetrachloroethene | 0.385 | 0.380 | 1.3 | 107 | 0.00 |
| 65 PM | Chlorobenzene | 1.116 | 1.063 | 4.7 | 106 | 0.00 |
| 66 T | 1,1,1,2-Tetrachloroethane | 0.368 | 0.355 | 3.5 | 107 | 0.00 |
| 67 C | Ethyl Benzene | 2.014 | 1.936 | 3.9# | 105 | 0.00 |
| 68 T | m/p-Xylenes | 0.754 | 0.733 | 2.8 | 105 | 0.00 |
| 69 T | o-Xylene | 0.746 | 0.712 | 4.6 | 104 | 0.00 |
| 70 T | Styrene | 1.243 | 1.220 | 1.9 | 105 | 0.00 |
| 71 P | Bromoform | 0.277 | 0.267 | 3.6 | 107 | 0.00 |
| 72 I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 102 | 0.00 |
| 73 T | Isopropylbenzene | 4.090 | 3.825 | 6.5 | 105 | 0.00 |
| 74 T | N-amyl acetate | 2.036 | 1.793 | 11.9 | 103 | 0.00 |
| 75 P | 1,1,2,2-Tetrachloroethane | 1.176 | 1.032 | 12.2 | 102 | 0.00 |
| 76 T | 1,2,3-Trichloropropane | 1.180 | 1.063 | 9.9 | 104 | 0.00 |
| 77 T | Bromobenzene | 0.906 | 0.862 | 4.9 | 103 | 0.00 |
| 78 T | n-propylbenzene | 4.820 | 4.590 | 4.8 | 104 | 0.00 |
| 79 T | 2-Chlorotoluene | 3.016 | 2.826 | 6.3 | 105 | 0.00 |
| 80 T | 1,3,5-Trimethylbenzene | 3.348 | 3.159 | 5.6 | 105 | 0.00 |
| 81 T | trans-1,4-Dichloro-2-butene | 0.491 | 0.520 | -5.9 | 115 | 0.00 |
| 82 T | 4-Chlorotoluene | 2.996 | 2.858 | 4.6 | 104 | 0.00 |
| 83 T | tert-Butylbenzene | 2.901 | 2.638 | 9.1 | 103 | 0.00 |
| 84 T | 1,2,4-Trimethylbenzene | 3.408 | 3.236 | 5.0 | 104 | 0.00 |
| 85 T | sec-Butylbenzene | 4.023 | 3.831 | 4.8 | 104 | 0.00 |
| 86 T | p-Isopropyltoluene | 3.316 | 3.224 | 2.8 | 104 | 0.00 |
| 87 T | 1,3-Dichlorobenzene | 1.704 | 1.646 | 3.4 | 104 | 0.00 |
| 88 T | 1,4-Dichlorobenzene | 1.716 | 1.647 | 4.0 | 104 | 0.00 |
| 89 T | n-Butylbenzene | 2.939 | 2.894 | 1.5 | 104 | 0.00 |
| 90 T | Hexachloroethane | 0.558 | 0.526 | 5.7 | 104 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 1.652 | 1.575 | 4.7 | 103 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.237 | 0.229 | 3.4 | 105 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 0.791 | 0.788 | 0.4 | 105 | 0.00 |
| 94 T | Hexachlorobutadiene | 0.299 | 0.294 | 1.7 | 107 | 0.00 |
| 95 T | Naphthalene | 2.804 | 2.710 | 3.4 | 103 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
Data File : VN086286.D
Acq On : 16 Apr 2025 09:14
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Apr 17 03:04:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 16 04:19:23 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|-----------------------------|-------|-------|------|-------|----------|
| 96 T 1,2,3-Trichlorobenzene | 0.749 | 0.719 | 4.0 | 104 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
 Data File : VN086286.D
 Acq On : 16 Apr 2025 09:14
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Apr 17 03:04:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 04:19:23 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|-------|-----------------------------|---------|---------|------|-------|----------|
| 1 I | Pentafluorobenzene | 50.000 | 50.000 | 0.0 | 105 | 0.00 |
| 2 T | Dichlorodifluoromethane | 50.000 | 50.015 | -0.0 | 106 | 0.00 |
| 3 P | Chloromethane | 50.000 | 46.291 | 7.4 | 112 | 0.00 |
| 4 C | Vinyl Chloride | 50.000 | 48.142 | 3.7# | 106 | 0.00 |
| 5 T | Bromomethane | 50.000 | 51.019 | -2.0 | 112 | 0.00 |
| 6 T | Chloroethane | 50.000 | 46.095 | 7.8 | 107 | 0.00 |
| 7 T | Trichlorofluoromethane | 50.000 | 48.201 | 3.6 | 107 | 0.00 |
| 8 T | Diethyl Ether | 50.000 | 47.257 | 5.5 | 106 | 0.00 |
| 9 T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 48.715 | 2.6 | 108 | 0.00 |
| 10 T | Methyl Iodide | 50.000 | 53.436 | -6.9 | 114 | 0.00 |
| 11 T | Tert butyl alcohol | 250.000 | 240.673 | 3.7 | 108 | 0.00 |
| 12 CM | 1,1-Dichloroethene | 50.000 | 47.154 | 5.7# | 106 | 0.00 |
| 13 T | Acrolein | 250.000 | 262.459 | -5.0 | 112 | 0.00 |
| 14 T | Allyl chloride | 50.000 | 45.690 | 8.6 | 109 | 0.00 |
| 15 T | Acrylonitrile | 250.000 | 240.904 | 3.6 | 105 | 0.00 |
| 16 T | Acetone | 250.000 | 253.403 | -1.4 | 107 | 0.00 |
| 17 T | Carbon Disulfide | 50.000 | 43.931 | 12.1 | 105 | 0.00 |
| 18 T | Methyl Acetate | 50.000 | 45.427 | 9.1 | 107 | 0.00 |
| 19 T | Methyl tert-butyl Ether | 50.000 | 46.306 | 7.4 | 105 | 0.00 |
| 20 T | Methylene Chloride | 50.000 | 46.630 | 6.7 | 107 | 0.00 |
| 21 T | trans-1,2-Dichloroethene | 50.000 | 46.882 | 6.2 | 106 | 0.00 |
| 22 T | Diisopropyl ether | 50.000 | 46.443 | 7.1 | 106 | 0.00 |
| 23 T | Vinyl Acetate | 250.000 | 232.938 | 6.8 | 105 | 0.00 |
| 24 P | 1,1-Dichloroethane | 50.000 | 47.500 | 5.0 | 106 | 0.00 |
| 25 T | 2-Butanone | 250.000 | 236.612 | 5.4 | 106 | 0.00 |
| 26 T | 2,2-Dichloropropane | 50.000 | 48.048 | 3.9 | 111 | 0.00 |
| 27 T | cis-1,2-Dichloroethene | 50.000 | 46.233 | 7.5 | 104 | 0.00 |
| 28 T | Bromochloromethane | 50.000 | 47.831 | 4.3 | 104 | 0.00 |
| 29 T | Tetrahydrofuran | 250.000 | 232.094 | 7.2 | 105 | 0.00 |
| 30 C | Chloroform | 50.000 | 46.656 | 6.7# | 105 | 0.00 |
| 31 T | Cyclohexane | 50.000 | 45.437 | 9.1 | 106 | 0.00 |
| 32 T | 1,1,1-Trichloroethane | 50.000 | 46.967 | 6.1 | 105 | 0.00 |
| 33 S | 1,2-Dichloroethane-d4 | 50.000 | 48.071 | 3.9 | 102 | 0.00 |
| 34 I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 104 | 0.00 |
| 35 S | Dibromofluoromethane | 50.000 | 46.205 | 7.6 | 104 | 0.00 |
| 36 T | 1,1-Dichloropropene | 50.000 | 48.390 | 3.2 | 105 | 0.00 |
| 37 T | Ethyl Acetate | 50.000 | 46.122 | 7.8 | 105 | 0.00 |
| 38 T | Carbon Tetrachloride | 50.000 | 48.682 | 2.6 | 106 | 0.00 |
| 39 T | Methylcyclohexane | 50.000 | 48.614 | 2.8 | 106 | 0.00 |
| 40 TM | Benzene | 50.000 | 47.920 | 4.2 | 105 | 0.00 |
| 41 T | Methacrylonitrile | 50.000 | 46.794 | 6.4 | 104 | 0.00 |
| 42 TM | 1,2-Dichloroethane | 50.000 | 47.977 | 4.0 | 106 | 0.00 |
| 43 T | Isopropyl Acetate | 50.000 | 47.992 | 4.0 | 101 | 0.00 |
| 44 TM | Trichloroethene | 50.000 | 49.927 | 0.1 | 108 | 0.00 |
| 45 C | 1,2-Dichloropropane | 50.000 | 48.096 | 3.8# | 104 | 0.00 |
| 46 T | Dibromomethane | 50.000 | 48.970 | 2.1 | 104 | 0.00 |
| 47 T | Bromodichloromethane | 50.000 | 48.571 | 2.9 | 106 | 0.00 |
| 48 T | Methyl methacrylate | 50.000 | 46.070 | 7.9 | 104 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
 Data File : VN086286.D
 Acq On : 16 Apr 2025 09:14
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Apr 17 03:04:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 04:19:23 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|-------|-----------------------------|----------|---------|------|-------|----------|
| 49 T | 1,4-Dioxane | 1000.000 | 947.648 | 5.2 | 111 | 0.00 |
| 50 S | Toluene-d8 | 50.000 | 49.161 | 1.7 | 101 | 0.00 |
| 51 T | 4-Methyl-2-Pentanone | 250.000 | 240.057 | 4.0 | 103 | 0.00 |
| 52 CM | Toluene | 50.000 | 48.280 | 3.4# | 104 | 0.00 |
| 53 T | t-1,3-Dichloropropene | 50.000 | 49.563 | 0.9 | 105 | 0.00 |
| 54 T | cis-1,3-Dichloropropene | 50.000 | 48.119 | 3.8 | 107 | 0.00 |
| 55 T | 1,1,2-Trichloroethane | 50.000 | 47.739 | 4.5 | 104 | 0.00 |
| 56 T | Ethyl methacrylate | 50.000 | 48.193 | 3.6 | 106 | 0.00 |
| 57 T | 1,3-Dichloropropane | 50.000 | 48.323 | 3.4 | 105 | 0.00 |
| 58 T | 2-Chloroethyl Vinyl ether | 250.000 | 245.023 | 2.0 | 103 | 0.00 |
| 59 T | 2-Hexanone | 250.000 | 241.579 | 3.4 | 105 | 0.00 |
| 60 T | Dibromochloromethane | 50.000 | 48.808 | 2.4 | 105 | 0.00 |
| 61 T | 1,2-Dibromoethane | 50.000 | 48.111 | 3.8 | 104 | 0.00 |
| 62 S | 4-Bromofluorobenzene | 50.000 | 49.374 | 1.3 | 101 | 0.00 |
| 63 I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 104 | 0.00 |
| 64 T | Tetrachloroethene | 50.000 | 49.433 | 1.1 | 107 | 0.00 |
| 65 PM | Chlorobenzene | 50.000 | 47.653 | 4.7 | 106 | 0.00 |
| 66 T | 1,1,1,2-Tetrachloroethane | 50.000 | 48.194 | 3.6 | 107 | 0.00 |
| 67 C | Ethyl Benzene | 50.000 | 48.077 | 3.8# | 105 | 0.00 |
| 68 T | m/p-Xylenes | 100.000 | 97.152 | 2.8 | 105 | 0.00 |
| 69 T | o-Xylene | 50.000 | 47.691 | 4.6 | 104 | 0.00 |
| 70 T | Styrene | 50.000 | 49.048 | 1.9 | 105 | 0.00 |
| 71 P | Bromoform | 50.000 | 48.243 | 3.5 | 107 | 0.00 |
| 72 I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 102 | 0.00 |
| 73 T | Isopropylbenzene | 50.000 | 46.758 | 6.5 | 105 | 0.00 |
| 74 T | N-amyl acetate | 50.000 | 44.026 | 11.9 | 103 | 0.00 |
| 75 P | 1,1,2,2-Tetrachloroethane | 50.000 | 43.857 | 12.3 | 102 | 0.00 |
| 76 T | 1,2,3-Trichloropropane | 50.000 | 45.063 | 9.9 | 104 | 0.00 |
| 77 T | Bromobenzene | 50.000 | 47.562 | 4.9 | 103 | 0.00 |
| 78 T | n-propylbenzene | 50.000 | 47.620 | 4.8 | 104 | 0.00 |
| 79 T | 2-Chlorotoluene | 50.000 | 46.847 | 6.3 | 105 | 0.00 |
| 80 T | 1,3,5-Trimethylbenzene | 50.000 | 47.184 | 5.6 | 105 | 0.00 |
| 81 T | trans-1,4-Dichloro-2-butene | 50.000 | 52.918 | -5.8 | 115 | 0.00 |
| 82 T | 4-Chlorotoluene | 50.000 | 47.693 | 4.6 | 104 | 0.00 |
| 83 T | tert-Butylbenzene | 50.000 | 45.479 | 9.0 | 103 | 0.00 |
| 84 T | 1,2,4-Trimethylbenzene | 50.000 | 47.478 | 5.0 | 104 | 0.00 |
| 85 T | sec-Butylbenzene | 50.000 | 47.611 | 4.8 | 104 | 0.00 |
| 86 T | p-Isopropyltoluene | 50.000 | 48.608 | 2.8 | 104 | 0.00 |
| 87 T | 1,3-Dichlorobenzene | 50.000 | 48.303 | 3.4 | 104 | 0.00 |
| 88 T | 1,4-Dichlorobenzene | 50.000 | 47.989 | 4.0 | 104 | 0.00 |
| 89 T | n-Butylbenzene | 50.000 | 49.219 | 1.6 | 104 | 0.00 |
| 90 T | Hexachloroethane | 50.000 | 47.120 | 5.8 | 104 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 50.000 | 47.687 | 4.6 | 103 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 48.367 | 3.3 | 105 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 50.000 | 49.814 | 0.4 | 105 | 0.00 |
| 94 T | Hexachlorobutadiene | 50.000 | 49.301 | 1.4 | 107 | 0.00 |
| 95 T | Naphthalene | 50.000 | 48.334 | 3.3 | 103 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
Data File : VN086286.D
Acq On : 16 Apr 2025 09:14
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Apr 17 03:04:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 16 04:19:23 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|-----------------------------|--------|--------|------|-------|----------|
| 96 T 1,2,3-Trichlorobenzene | 50.000 | 48.020 | 4.0 | 104 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6



QC SAMPLE

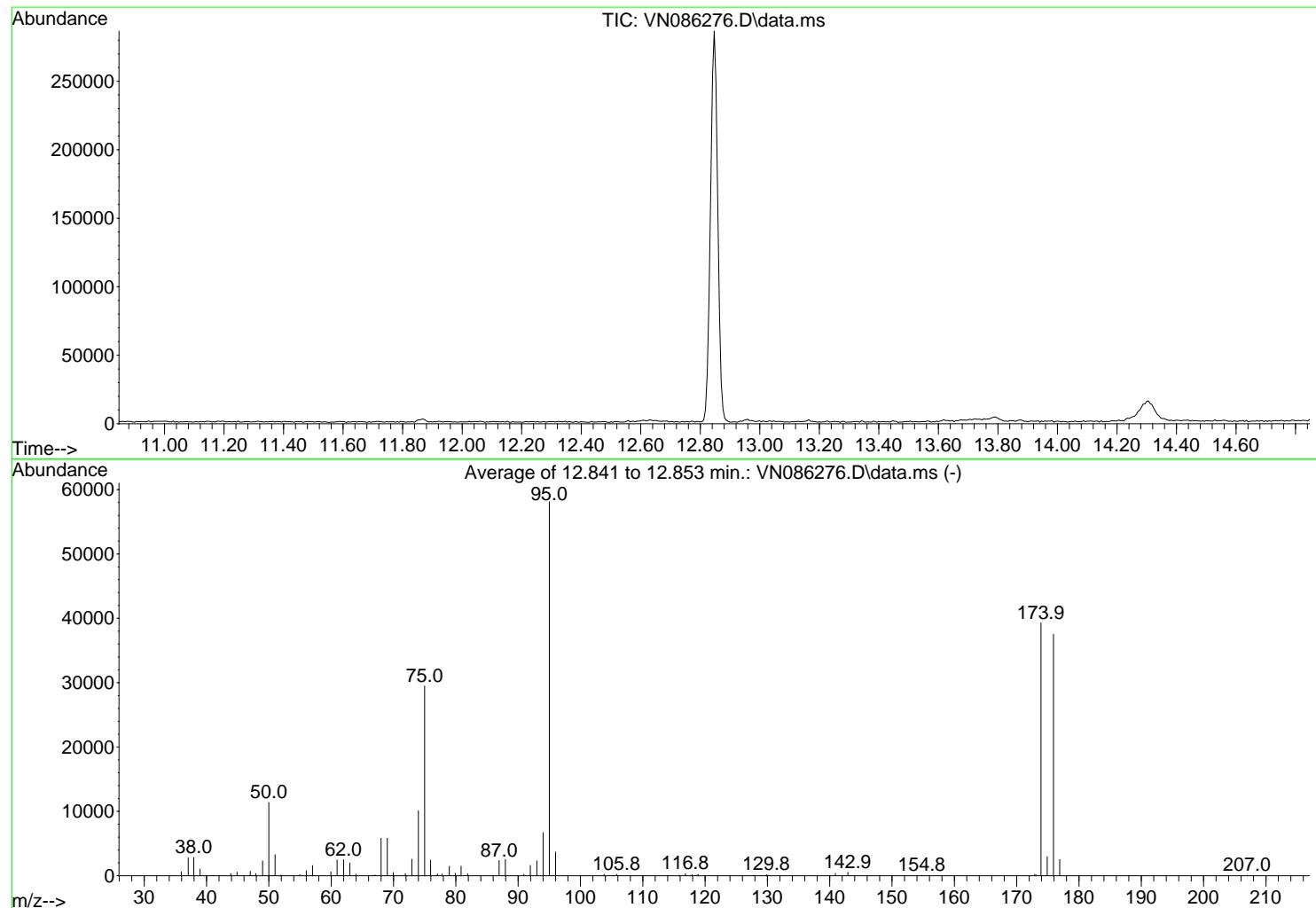
DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041525\
 Data File : VN086276.D
 Acq On : 15 Apr 2025 10:47
 Operator : JC\MD
 Sample : BFB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Title : SW846 8260
 Last Update : Wed Apr 16 04:19:23 2025



AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1843

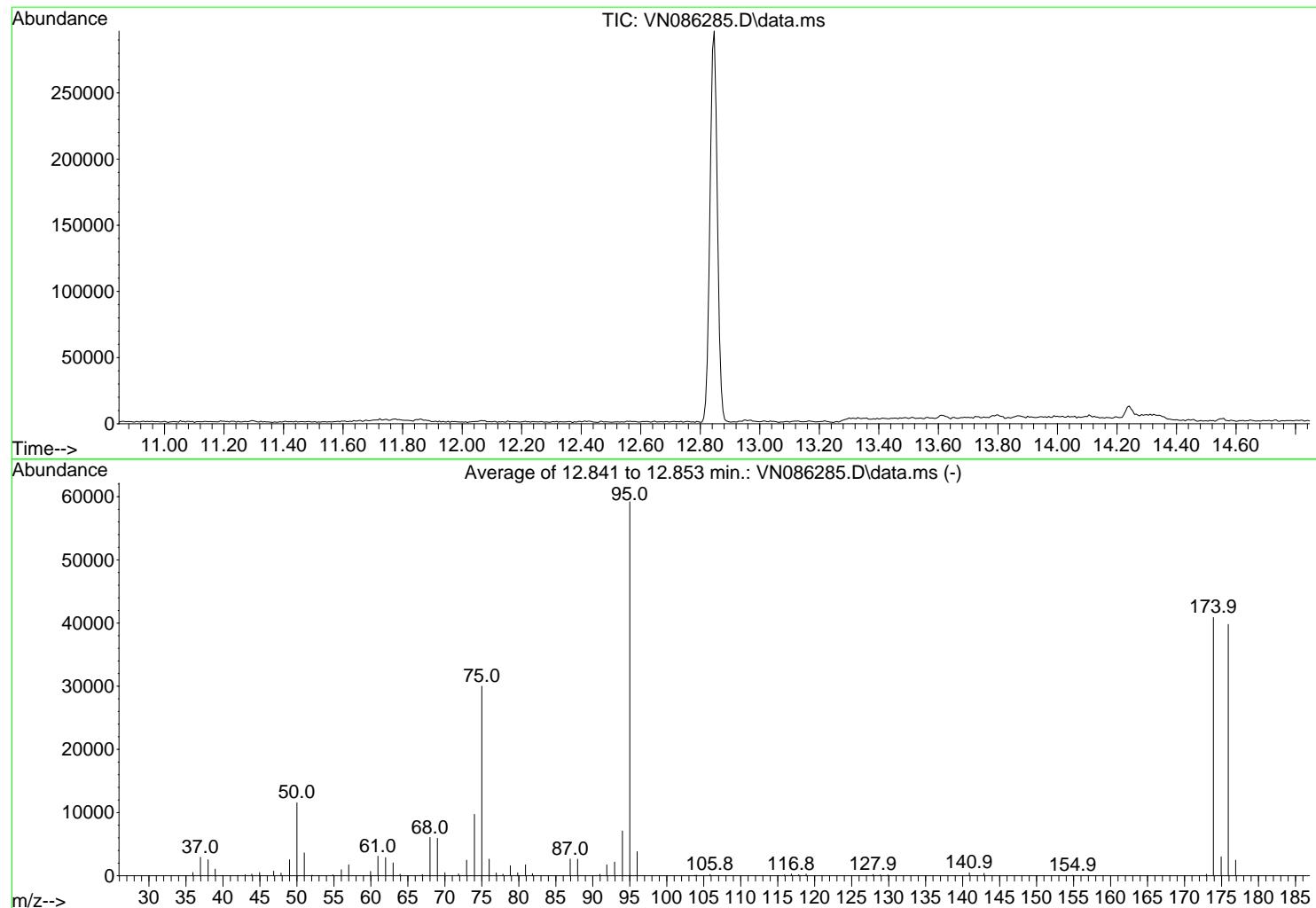
| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|-------------|--------------|--------------|--------------|-----------|---------|------------------|
| 50 | 95 | 15 | 40 | 19.6 | 11398 | PASS |
| 75 | 95 | 30 | 60 | 50.8 | 29499 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 58112 | PASS |
| 96 | 95 | 5 | 9 | 6.3 | 3682 | PASS |
| 173 | 174 | 0.00 | 2 | 0.6 | 240 | PASS |
| 174 | 95 | 50 | 100 | 67.6 | 39296 | PASS |
| 175 | 174 | 5 | 9 | 7.6 | 2977 | PASS |
| 176 | 174 | 95 | 101 | 95.5 | 37528 | PASS |
| 177 | 176 | 5 | 9 | 6.7 | 2533 | PASS |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
 Data File : VN086285.D
 Acq On : 16 Apr 2025 08:38
 Operator : JC\MD
 Sample : BFB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Title : SW846 8260
 Last Update : Wed Apr 16 04:19:23 2025



AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1842

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|-------------|--------------|--------------|--------------|-----------|---------|------------------|
| 50 | 95 | 15 | 40 | 19.5 | 11559 | PASS |
| 75 | 95 | 30 | 60 | 50.7 | 30005 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 59203 | PASS |
| 96 | 95 | 5 | 9 | 6.5 | 3819 | PASS |
| 173 | 174 | 0.00 | 2 | 0.6 | 241 | PASS |
| 174 | 95 | 50 | 100 | 69.1 | 40880 | PASS |
| 175 | 174 | 5 | 9 | 7.4 | 3011 | PASS |
| 176 | 174 | 95 | 101 | 97.3 | 39787 | PASS |
| 177 | 176 | 5 | 9 | 6.2 | 2465 | PASS |



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

Report of Analysis

| | | | | |
|--------------------|---|-----------|------------|-----------------|
| Client: | JACOBS Engineering Group, Inc. | | | Date Collected: |
| Project: | Former Schlumberger STC PTC Site D3868221 | | | Date Received: |
| Client Sample ID: | VN0416WBL01 | | SDG No.: | Q1812 |
| Lab Sample ID: | VN0416WBL01 | | Matrix: | Water |
| Analytical Method: | SW8260 | | % Solid: | 0 |
| Sample Wt/Vol: | 5 | Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 | ID : 0.25 | Level : | LOW |
| Prep Method : | | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|-------------------|-----------|-----------|----------------|---------------|
| VN086288.D | 1 | | 04/16/25 10:12 | VN041625 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|----------------|--------------------------------|-------|-----------|-------|------------|-------|
| TARGETS | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 74-87-3 | Chloromethane | 0.32 | U | 0.32 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 0.26 | U | 0.26 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 1.40 | U | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 0.47 | U | 0.47 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 0.33 | U | 0.33 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.25 | U | 0.25 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 67-64-1 | Acetone | 1.50 | U | 1.50 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 0.21 | U | 0.21 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-20-9 | Methyl Acetate | 0.27 | U | 0.27 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 0.28 | U | 0.28 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 0.23 | U | 0.23 | 1.00 | ug/L |
| 110-82-7 | Cyclohexane | 1.50 | U | 1.50 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 0.98 | U | 0.98 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 74-97-5 | Bromochloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 0.25 | U | 0.25 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 0.16 | U | 0.16 | 1.00 | ug/L |
| 71-43-2 | Benzene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 0.090 | U | 0.090 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.68 | U | 0.68 | 5.00 | ug/L |
| 108-88-3 | Toluene | 0.14 | U | 0.14 | 1.00 | ug/L |



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Fax : 908 789 8922

Report of Analysis

| | | | | |
|--------------------|---|-----------|------------|-----------------|
| Client: | JACOBS Engineering Group, Inc. | | | Date Collected: |
| Project: | Former Schlumberger STC PTC Site D3868221 | | | Date Received: |
| Client Sample ID: | VN0416WBL01 | | SDG No.: | Q1812 |
| Lab Sample ID: | VN0416WBL01 | | Matrix: | Water |
| Analytical Method: | SW8260 | | % Solid: | 0 |
| Sample Wt/Vol: | 5 | Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 | ID : 0.25 | Level : | LOW |
| Prep Method : | | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|-------------------|-----------|-----------|----------------|---------------|
| VN086288.D | 1 | | 04/16/25 10:12 | VN041625 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---------------------------|-----------------------------|--------|-----------|---------------------|------------|---------|
| 10061-02-6 | t-1,3-Dichloropropene | 0.17 | U | 0.17 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 0.89 | U | 0.89 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 0.18 | U | 0.18 | 1.00 | ug/L |
| 106-93-4 | 1,2-Dibromoethane | 0.15 | U | 0.15 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 0.13 | U | 0.13 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 0.24 | U | 0.24 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-42-5 | Styrene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 0.19 | U | 0.19 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.26 | U | 0.26 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.53 | U | 0.53 | 1.00 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| SURROGATES | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 49.2 | | 70 (74) - 130 (125) | 98% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 55.0 | | 70 (75) - 130 (124) | 110% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 50.6 | | 70 (86) - 130 (113) | 101% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 49.9 | | 70 (77) - 130 (121) | 100% | SPK: 50 |
| INTERNAL STANDARDS | | | | | | |
| 363-72-4 | Pentafluorobenzene | 216000 | 8.224 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 413000 | 9.1 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 375000 | 11.865 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 162000 | 13.788 | | | |



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Fax : 908 789 8922

Report of Analysis

| | | | | |
|--------------------|---|-----------|------------|-----------------|
| Client: | JACOBS Engineering Group, Inc. | | | Date Collected: |
| Project: | Former Schlumberger STC PTC Site D3868221 | | | Date Received: |
| Client Sample ID: | VN0416WBL01 | | SDG No.: | Q1812 |
| Lab Sample ID: | VN0416WBL01 | | Matrix: | Water |
| Analytical Method: | SW8260 | | % Solid: | 0 |
| Sample Wt/Vol: | 5 | Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 | ID : 0.25 | Level : | LOW |
| Prep Method : | | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|-------------------|-----------|-----------|----------------|---------------|
| VN086288.D | 1 | | 04/16/25 10:12 | VN041625 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|------------|-----------|-------|-----------|-----|------------|-------|
|------------|-----------|-------|-----------|-----|------------|-------|

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
 Data File : VN086288.D
 Acq On : 16 Apr 2025 10:12
 Operator : JC\MD
 Sample : VN0416WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBL01

Quant Time: Apr 17 05:35:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 04:19:23 2025
 Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|------------------------------------|----------------|------|------------|----------|-------|----------|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 8.224 | 168 | 215943 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 9.100 | 114 | 412690 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.865 | 117 | 374988 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.788 | 152 | 162383 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.577 | 65 | 153932 | 49.158 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = | 98.320% | | |
| 35) Dibromofluoromethane | 8.165 | 113 | 105409 | 55.034 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = | 110.060% | | |
| 50) Toluene-d8 | 10.565 | 98 | 518345 | 50.637 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = | 101.280% | | |
| 62) 4-Bromofluorobenzene | 12.847 | 95 | 186209 | 49.873 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = | 99.740% | | |

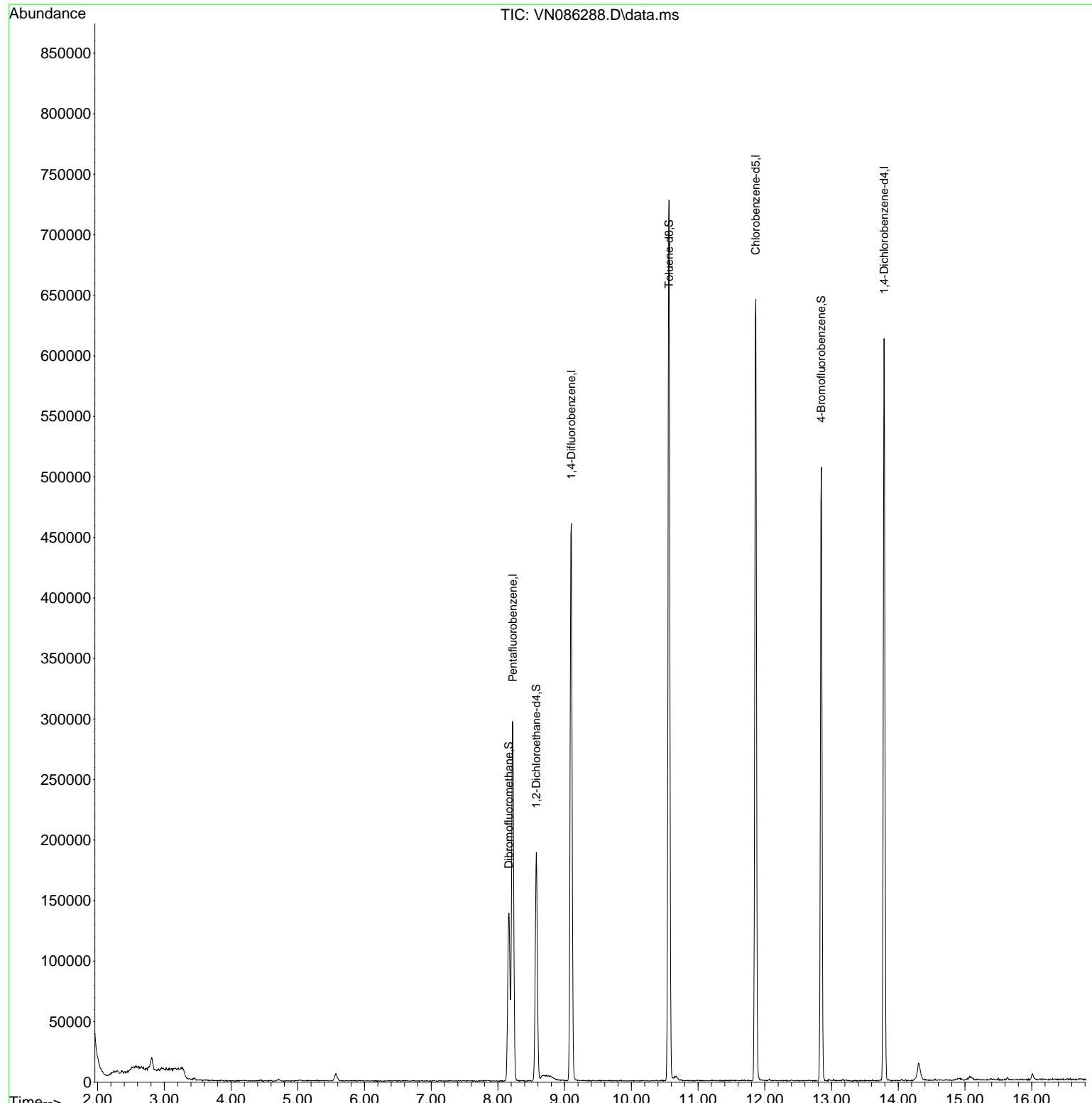
| Target Compounds | Qvalue |
|------------------|--------|
| <hr/> | |

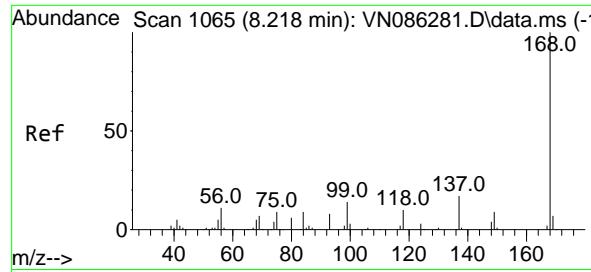
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
Data File : VN086288.D
Acq On : 16 Apr 2025 10:12
Operator : JC\MD
Sample : VN0416WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

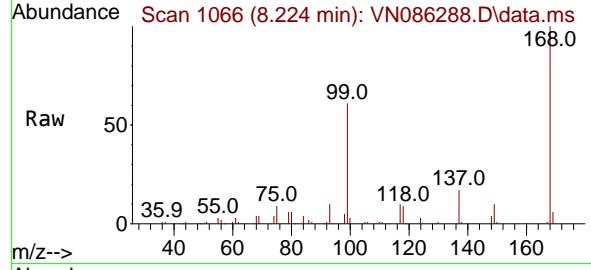
Instrument :
MSVOA_N
ClientSampleId :
VN0416WBL01

Quant Time: Apr 17 05:35:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 16 04:19:23 2025
Response via : Initial Calibration

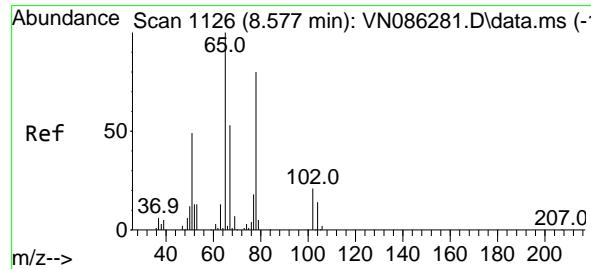
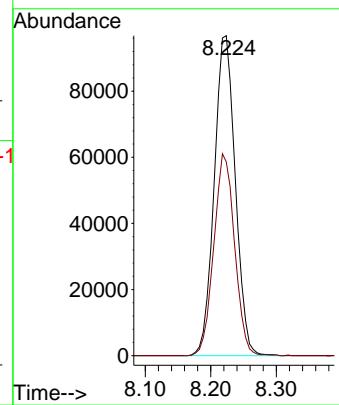
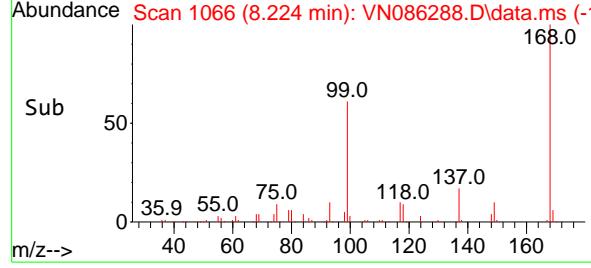




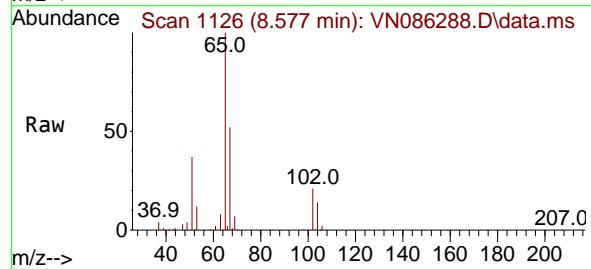
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Instrument : MSVOA_N
Delta R.T. 0.006 min
Lab File: VN086288.D
Acq: 16 Apr 2025 10:12
ClientSampleId : VN0416WBL01



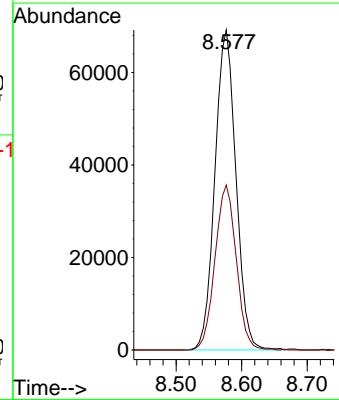
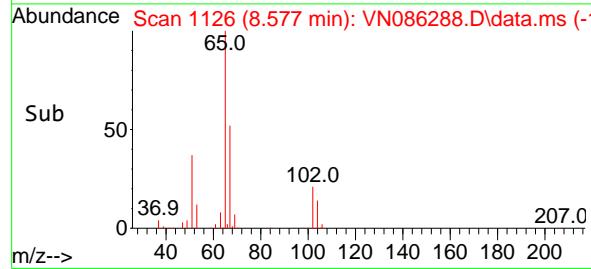
Tgt Ion:168 Resp: 215943
Ion Ratio Lower Upper
168 100
99 60.5 52.5 78.7

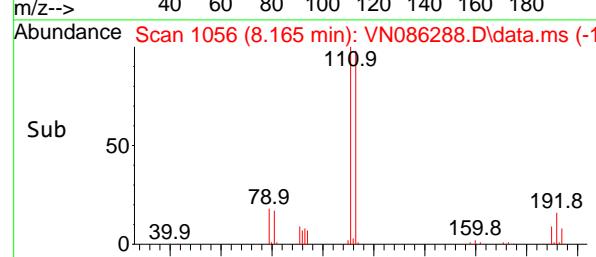
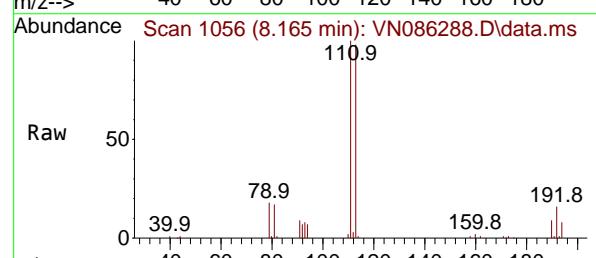
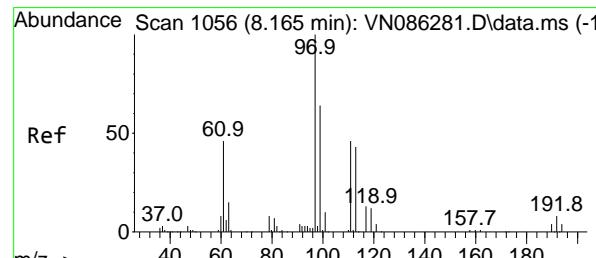
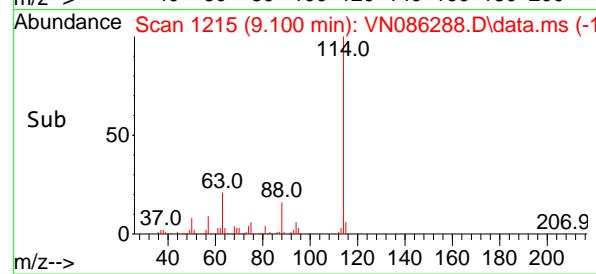
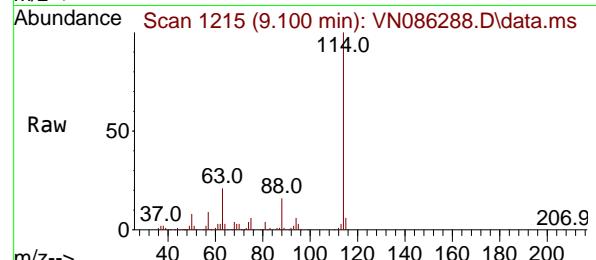
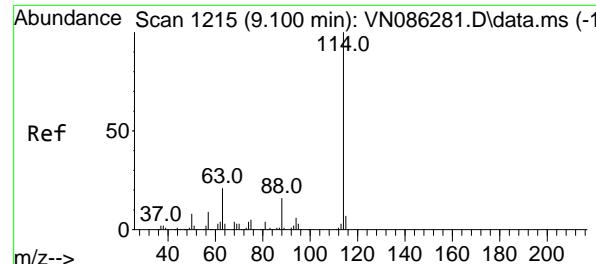


#33
1,2-Dichloroethane-d4
Concen: 49.158 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086288.D
Acq: 16 Apr 2025 10:12



Tgt Ion: 65 Resp: 153932
Ion Ratio Lower Upper
65 100
67 52.1 0.0 106.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086288.D

Acq: 16 Apr 2025 10:12

Instrument:

MSVOA_N

ClientSampleId :

VN0416WBL01

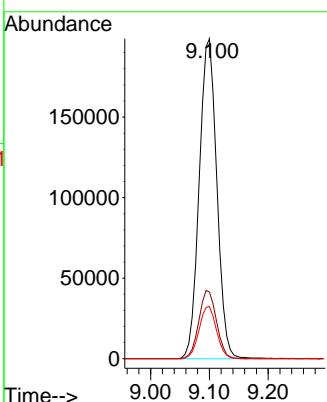
Tgt Ion:114 Resp: 412690

Ion Ratio Lower Upper

114 100

63 20.8 0.0 42.6

88 16.3 0.0 31.8



#35

Dibromofluoromethane

Concen: 55.034 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086288.D

Acq: 16 Apr 2025 10:12

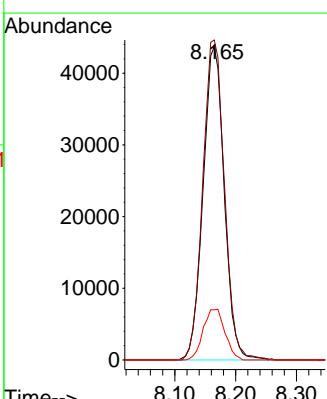
Tgt Ion:113 Resp: 105409

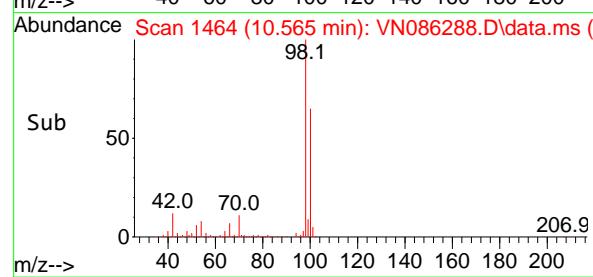
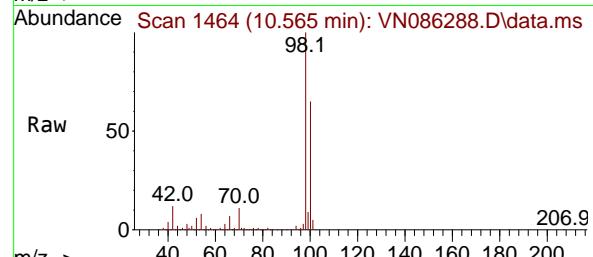
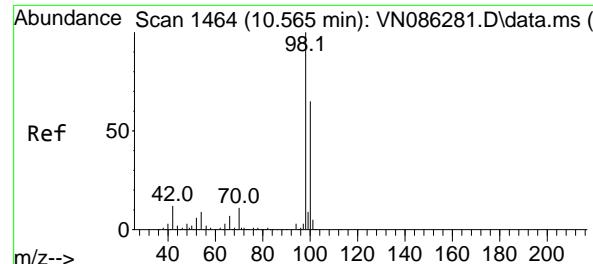
Ion Ratio Lower Upper

113 100

111 104.4 83.4 125.0

192 16.7 13.7 20.5

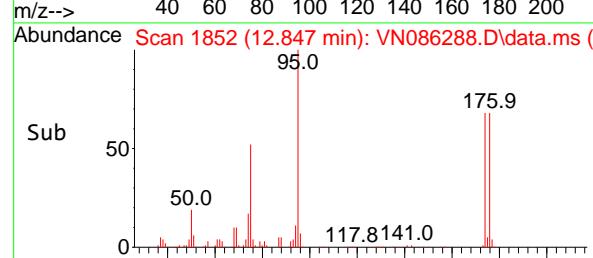
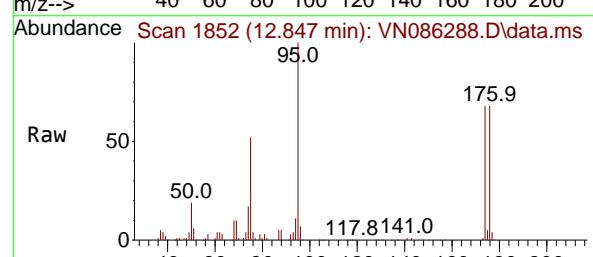
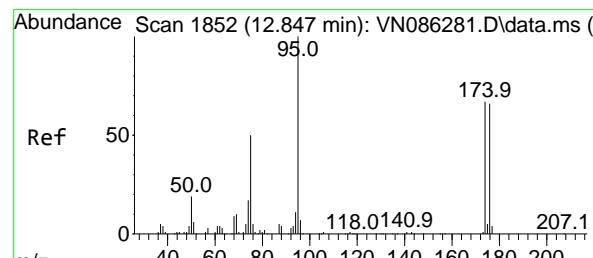
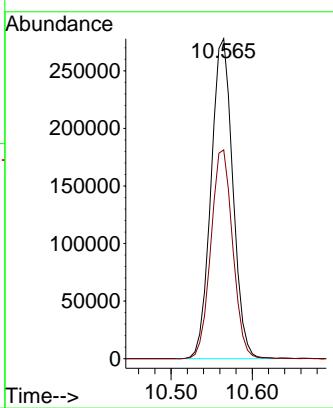




#50
Toluene-d8
Concen: 50.637 ug/l
RT: 10.565 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086288.D
Acq: 16 Apr 2025 10:12

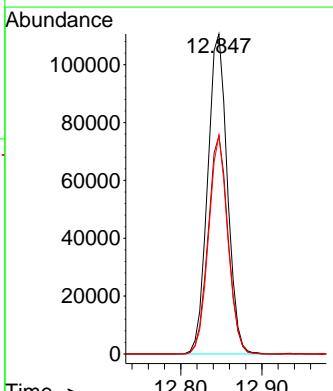
Instrument : MSVOA_N
ClientSampleId : VN0416WBL01

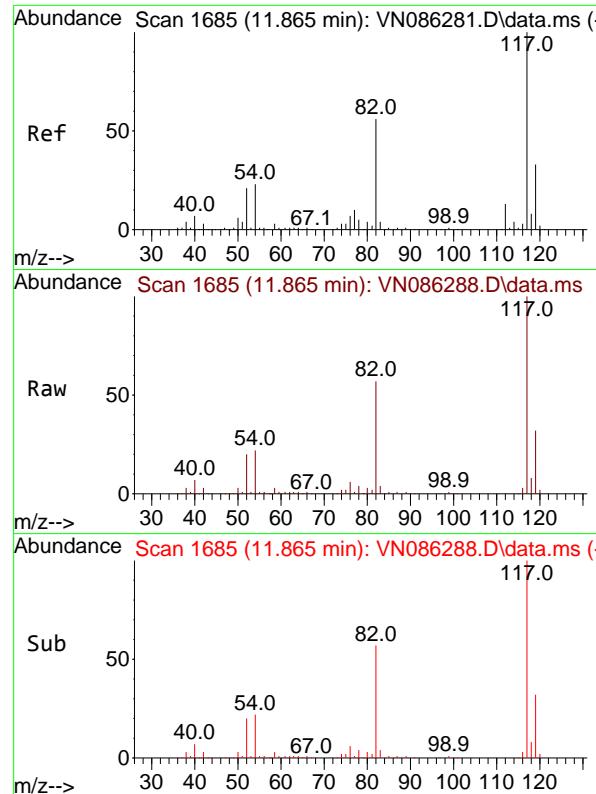
Tgt Ion: 98 Resp: 518345
Ion Ratio Lower Upper
98 100
100 65.4 52.5 78.7



#62
4-Bromofluorobenzene
Concen: 49.873 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086288.D
Acq: 16 Apr 2025 10:12

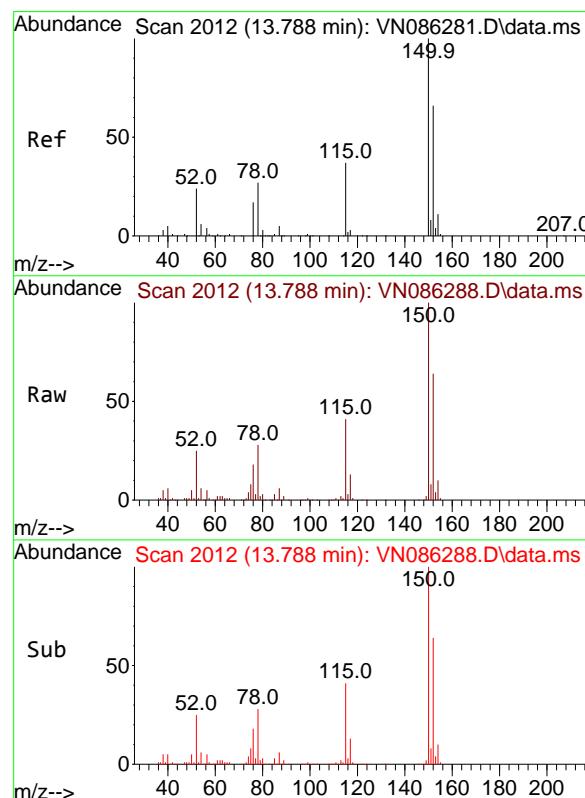
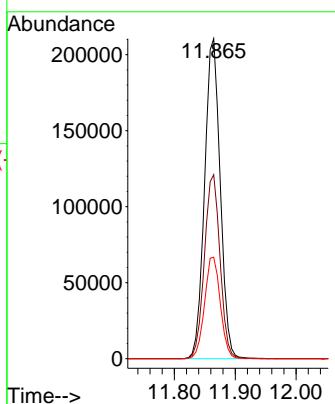
Tgt Ion: 95 Resp: 186209
Ion Ratio Lower Upper
95 100
174 69.0 0.0 133.4
176 66.4 0.0 129.2





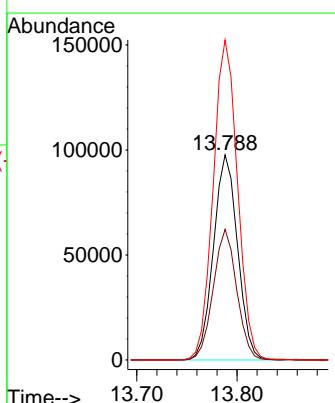
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Instrument : MSVOA_N
Delta R.T. -0.000 min
Lab File: VN086288.D
Acq: 16 Apr 2025 10:12
ClientSampleId : VN0416WBL01

Tgt Ion:117 Resp: 374988
Ion Ratio Lower Upper
117 100
82 57.5 44.7 67.1
119 31.7 26.4 39.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN086288.D
Acq: 16 Apr 2025 10:12

Tgt Ion:152 Resp: 162383
Ion Ratio Lower Upper
152 100
115 62.1 31.9 95.9
150 158.0 0.0 352.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
 Data File : VN086288.D
 Acq On : 16 Apr 2025 10:12
 Operator : JC\MD
 Sample : VN0416WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBL01

Integration Parameters: RTEINT.P

Integrator: RTE
 Smoothing : ON Filtering: 5
 Sampling : 1 Min Area: 3 % of largest Peak
 Start Thrs: 0.2 Max Peaks: 100
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Title : SW846 8260

Signal : TIC: VN086288.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|--------|----------|------------|----------|-----------|-------|-------------|------------|--------------|------------|
| 1 | 2.812 | 141 | 146 | 152 | rVB | 10051 | 21819 | 1.60% | 0.319% |
| 2 | 5.571 | 606 | 615 | 624 | rBV | 6007 | 16547 | 1.22% | 0.242% |
| 3 | 8.165 | 1045 | 1056 | 1060 | rBV2 | 138733 | 332011 | 24.38% | 4.851% |
| 4 | 8.218 | 1060 | 1065 | 1075 | rVB | 296631 | 660392 | 48.50% | 9.649% |
| 5 | 8.577 | 1114 | 1126 | 1136 | rBV | 188913 | 422458 | 31.02% | 6.172% |
| 6 | 9.100 | 1205 | 1215 | 1226 | rBV | 460481 | 955366 | 70.16% | 13.959% |
| 7 | 10.565 | 1455 | 1464 | 1473 | rBV | 727580 | 1361768 | 100.00% | 19.897% |
| 8 | 11.865 | 1675 | 1685 | 1697 | rBV | 645847 | 1161581 | 85.30% | 16.972% |
| 9 | 12.847 | 1844 | 1852 | 1859 | rBV | 507081 | 852848 | 62.63% | 12.461% |
| 10 | 13.788 | 2004 | 2012 | 2022 | rBV | 612956 | 1016506 | 74.65% | 14.852% |
| 11 | 14.306 | 2088 | 2100 | 2112 | rVB7 | 13571 | 42934 | 3.15% | 0.627% |

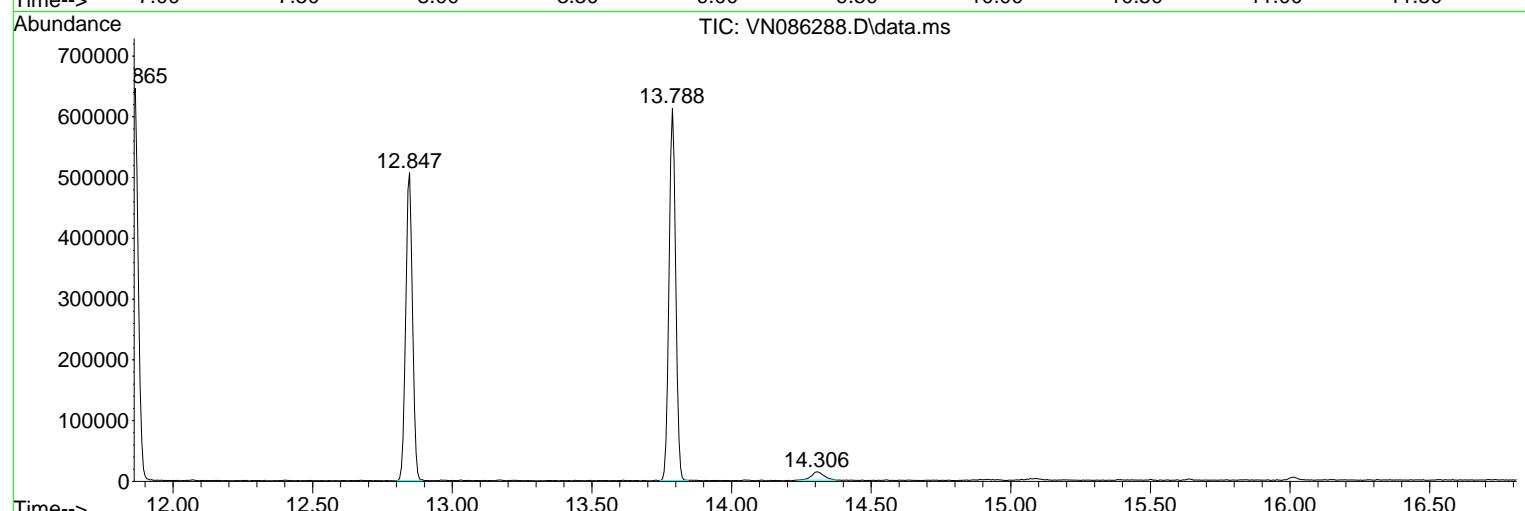
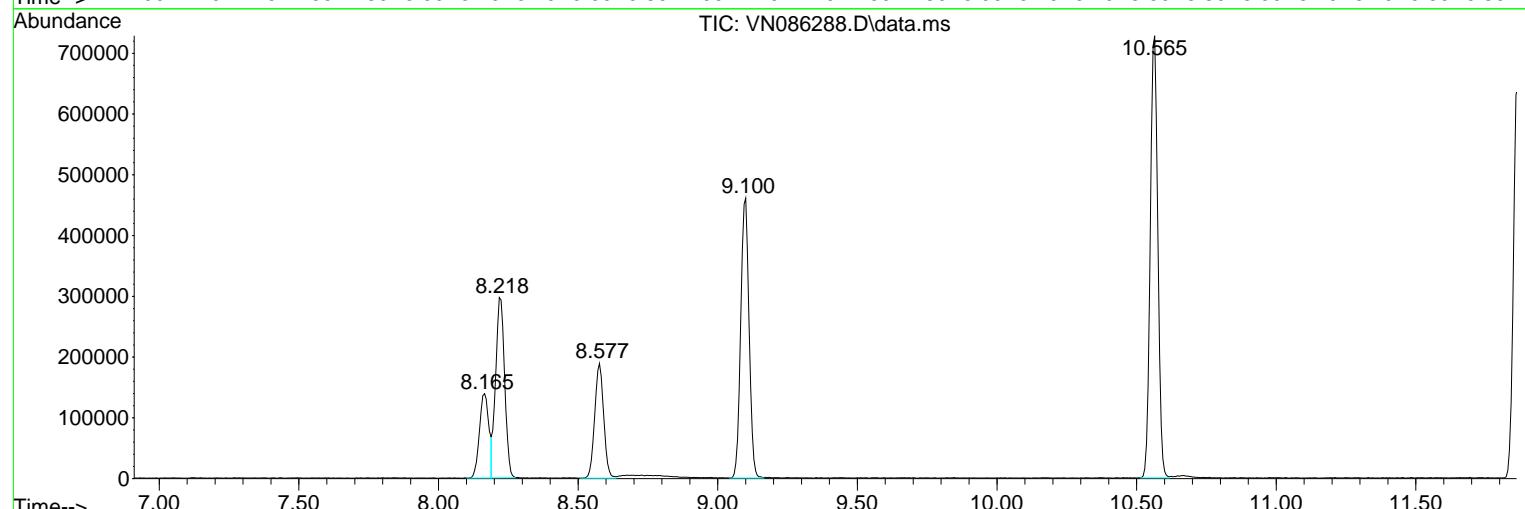
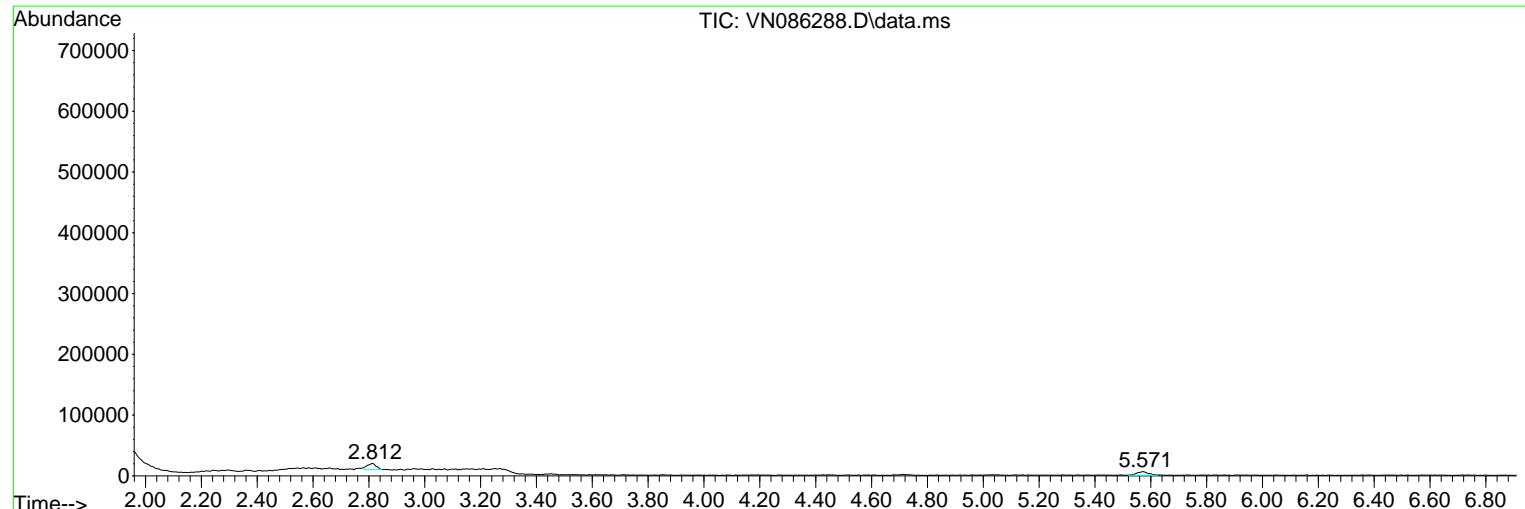
Sum of corrected areas: 6844230

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
 Data File : VN086288.D
 Acq On : 16 Apr 2025 10:12
 Operator : JC\MD
 Sample : VN0416WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
 TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
Data File : VN086288.D
Acq On : 16 Apr 2025 10:12
Operator : JC\MD
Sample : VN0416WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
Data File : VN086288.D
Acq On : 16 Apr 2025 10:12
Operator : JC\MD
Sample : VN0416WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name | RT | EstConc | Units | Response | --Internal Standard--- | | |
|------------------|----|---------|-------|----------|------------------------|----|------|
| | | | | | # | RT | Resp |
| | | | | | | | |



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

Report of Analysis

| | | | | |
|--------------------|---|-----------|------------|-----------------|
| Client: | JACOBS Engineering Group, Inc. | | | Date Collected: |
| Project: | Former Schlumberger STC PTC Site D3868221 | | | Date Received: |
| Client Sample ID: | VN0416WBS01 | | SDG No.: | Q1812 |
| Lab Sample ID: | VN0416WBS01 | | Matrix: | Water |
| Analytical Method: | SW8260 | | % Solid: | 0 |
| Sample Wt/Vol: | 5 | Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 | ID : 0.25 | Level : | LOW |
| Prep Method : | | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|-------------------|-----------|-----------|----------------|---------------|
| VN086289.D | 1 | | 04/16/25 11:52 | VN041625 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|----------------|--------------------------------|-------|-----------|-------|------------|-------|
| TARGETS | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 18.8 | | 0.22 | 1.00 | ug/L |
| 74-87-3 | Chloromethane | 17.2 | | 0.32 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 17.8 | | 0.26 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 19.7 | | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 17.3 | | 0.47 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 17.9 | | 0.33 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 18.2 | | 0.25 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 17.1 | | 0.23 | 1.00 | ug/L |
| 67-64-1 | Acetone | 100 | | 1.50 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 16.8 | | 0.21 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 17.5 | | 0.16 | 1.00 | ug/L |
| 79-20-9 | Methyl Acetate | 17.3 | | 0.27 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 17.1 | | 0.28 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 17.4 | | 0.23 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 17.7 | | 0.23 | 1.00 | ug/L |
| 110-82-7 | Cyclohexane | 17.5 | | 1.50 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 93.4 | | 0.98 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 17.9 | | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 17.5 | | 0.19 | 1.00 | ug/L |
| 74-97-5 | Bromochloromethane | 25.4 | | 0.22 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 17.5 | | 0.25 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 17.9 | | 0.20 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 18.1 | | 0.16 | 1.00 | ug/L |
| 71-43-2 | Benzene | 17.9 | | 0.15 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 17.7 | | 0.22 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 18.2 | | 0.090 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 17.8 | | 0.20 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 18.1 | | 0.22 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 89.9 | | 0.68 | 5.00 | ug/L |
| 108-88-3 | Toluene | 18.0 | | 0.14 | 1.00 | ug/L |



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Fax : 908 789 8922

Report of Analysis

| | | | | |
|--------------------|---|-----------|------------|-----------------|
| Client: | JACOBS Engineering Group, Inc. | | | Date Collected: |
| Project: | Former Schlumberger STC PTC Site D3868221 | | | Date Received: |
| Client Sample ID: | VN0416WBS01 | | SDG No.: | Q1812 |
| Lab Sample ID: | VN0416WBS01 | | Matrix: | Water |
| Analytical Method: | SW8260 | | % Solid: | 0 |
| Sample Wt/Vol: | 5 | Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 | ID : 0.25 | Level : | LOW |
| Prep Method : | | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|-------------------|-----------|-----------|----------------|---------------|
| VN086289.D | 1 | | 04/16/25 11:52 | VN041625 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---------------------------|-----------------------------|--------|-----------|---------------------|------------|---------|
| 10061-02-6 | t-1,3-Dichloropropene | 18.2 | | 0.17 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 17.7 | | 0.16 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 17.9 | | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 92.6 | | 0.89 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 18.0 | | 0.18 | 1.00 | ug/L |
| 106-93-4 | 1,2-Dibromoethane | 18.1 | | 0.15 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 18.6 | | 0.23 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 17.9 | | 0.12 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 18.0 | | 0.13 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 36.3 | | 0.24 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 18.0 | | 0.12 | 1.00 | ug/L |
| 100-42-5 | Styrene | 18.1 | | 0.15 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 18.1 | | 0.19 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 17.8 | | 0.12 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 17.1 | | 0.26 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 18.0 | | 0.16 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 17.9 | | 0.19 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 17.9 | | 0.16 | 1.00 | ug/L |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 18.7 | | 0.53 | 1.00 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | 19.4 | | 0.20 | 1.00 | ug/L |
| 87-61-6 | 1,2,3-Trichlorobenzene | 19.0 | | 0.20 | 1.00 | ug/L |
| SURROGATES | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 50.6 | | 70 (74) - 130 (125) | 101% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 50.4 | | 70 (75) - 130 (124) | 101% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 50.8 | | 70 (86) - 130 (113) | 102% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 49.8 | | 70 (77) - 130 (121) | 100% | SPK: 50 |
| INTERNAL STANDARDS | | | | | | |
| 363-72-4 | Pentafluorobenzene | 283000 | 8.218 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 522000 | 9.094 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 460000 | 11.865 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 209000 | 13.788 | | | |



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

Report of Analysis

| | | | | |
|--------------------|---|-----------|------------|-----------------|
| Client: | JACOBS Engineering Group, Inc. | | | Date Collected: |
| Project: | Former Schlumberger STC PTC Site D3868221 | | | Date Received: |
| Client Sample ID: | VN0416WBS01 | | SDG No.: | Q1812 |
| Lab Sample ID: | VN0416WBS01 | | Matrix: | Water |
| Analytical Method: | SW8260 | | % Solid: | 0 |
| Sample Wt/Vol: | 5 | Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 | ID : 0.25 | Level : | LOW |
| Prep Method : | | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|-------------------|-----------|-----------|----------------|---------------|
| VN086289.D | 1 | | 04/16/25 11:52 | VN041625 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|------------|-----------|-------|-----------|-----|------------|-------|
|------------|-----------|-------|-----------|-----|------------|-------|

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
 Data File : VN086289.D
 Acq On : 16 Apr 2025 11:52
 Operator : JC\MD
 Sample : VN0416WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0416WBS01

Quant Time: Apr 17 03:05:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 04:19:23 2025
 Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :John Carlane 04/17/2025
 Supervised By :Mahesh Dadoda 04/17/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|------------------------------------|----------------|------|----------|---------|----------|----------|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 8.218 | 168 | 282564 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 9.094 | 114 | 522491 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.865 | 117 | 460155 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.788 | 152 | 208645 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.577 | 65 | 207315 | 50.596 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery | = | 101.200% | |
| 35) Dibromofluoromethane | 8.165 | 113 | 122233 | 50.406 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery | = | 100.820% | |
| 50) Toluene-d8 | 10.565 | 98 | 658487 | 50.809 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery | = | 101.620% | |
| 62) 4-Bromofluorobenzene | 12.847 | 95 | 235301 | 49.777 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery | = | 99.560% | |
| Target Compounds | | | | | | |
| | | | | Qvalue | | |
| 2) Dichlorodifluoromethane | 2.124 | 85 | 62834 | 18.759 | ug/l | 98 |
| 3) Chloromethane | 2.359 | 50 | 83619 | 17.177 | ug/l | 99 |
| 4) Vinyl Chloride | 2.512 | 62 | 82618 | 17.784 | ug/l | 99 |
| 5) Bromomethane | 2.959 | 94 | 41141 | 19.688 | ug/l | 99 |
| 6) Chloroethane | 3.118 | 64 | 53710 | 17.275 | ug/l | 99 |
| 7) Trichlorofluoromethane | 3.501 | 101 | 91973 | 17.873 | ug/l | 96 |
| 8) Diethyl Ether | 3.959 | 74 | 40364 | 17.968 | ug/l | 97 |
| 9) 1,1,2-Trichlorotrifluo... | 4.377 | 101 | 56567 | 18.172 | ug/l | 99 |
| 10) Methyl Iodide | 4.583 | 142 | 66719 | 19.495 | ug/l | 100 |
| 11) Tert butyl alcohol | 5.512 | 59 | 69597 | 93.093 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 4.342 | 96 | 56875 | 17.101 | ug/l | 90 |
| 13) Acrolein | 4.183 | 56 | 33709 | 86.849 | ug/l | 98 |
| 14) Allyl chloride | 5.024 | 41 | 108413 | 18.337 | ug/l | 93 |
| 15) Acrylonitrile | 5.712 | 53 | 169017 | 91.453 | ug/l | 100 |
| 16) Acetone | 4.424 | 43 | 149040 | 101.823 | ug/l | 99 |
| 17) Carbon Disulfide | 4.712 | 76 | 167280 | 16.798 | ug/l | 97 |
| 18) Methyl Acetate | 5.018 | 43 | 85073 | 17.297 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.795 | 73 | 213988 | 17.504 | ug/l | 99 |
| 20) Methylene Chloride | 5.277 | 84 | 64725 | 17.087 | ug/l | 91 |
| 21) trans-1,2-Dichloroethene | 5.783 | 96 | 60388 | 17.368 | ug/l | 98 |
| 22) Diisopropyl ether | 6.665 | 45 | 221304 | 17.207 | ug/l | 99 |
| 23) Vinyl Acetate | 6.600 | 43 | 799295 | 88.904 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 6.565 | 63 | 120270 | 17.724 | ug/l | 99 |
| 25) 2-Butanone | 7.477 | 43 | 238212 | 93.400 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 7.489 | 77 | 111024 | 18.273 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 7.483 | 96 | 75460 | 17.486 | ug/l | 98 |
| 28) Bromochloromethane | 7.812 | 49 | 72980 | 25.364 | ug/l | 99 |
| 29) Tetrahydrofuran | 7.836 | 42 | 150252 | 88.099 | ug/l | 99 |
| 30) Chloroform | 7.965 | 83 | 116681 | 17.504 | ug/l | 100 |
| 31) Cyclohexane | 8.253 | 56 | 116431 | 17.534 | ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 8.165 | 97 | 101815 | 17.854 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 8.371 | 75 | 87429 | 18.051 | ug/l | 99 |
| 37) Ethyl Acetate | 7.553 | 43 | 90455 | 17.739 | ug/l | 98 |
| 38) Carbon Tetrachloride | 8.359 | 117 | 82737 | 17.938 | ug/l | 100 |
| 39) Methylcyclohexane | 9.600 | 83 | 104143 | 18.090 | ug/l | 99 |
| 40) Benzene | 8.600 | 78 | 278025 | 17.916 | ug/l | 100 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
 Data File : VN086289.D
 Acq On : 16 Apr 2025 11:52
 Operator : JC\MD
 Sample : VN0416WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBS01

Quant Time: Apr 17 03:05:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 04:19:23 2025
 Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :John Carlane 04/17/2025
 Supervised By :Mahesh Dadoda 04/17/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile | 7.777 | 41 | 51131 | 17.301 | ug/1 | 97 |
| 42) 1,2-Dichloroethane | 8.665 | 62 | 87802 | 17.743 | ug/1 | 100 |
| 43) Isopropyl Acetate | 8.683 | 43 | 172068 | 17.329 | ug/1 | 99 |
| 44) Trichloroethene | 9.347 | 130 | 66974 | 18.209 | ug/1 | 98 |
| 45) 1,2-Dichloropropane | 9.618 | 63 | 67554 | 17.784 | ug/1 | 98 |
| 46) Dibromomethane | 9.706 | 93 | 44348 | 18.324 | ug/1 | 99 |
| 47) Bromodichloromethane | 9.883 | 83 | 94506 | 18.079 | ug/1 | 97 |
| 48) Methyl methacrylate | 9.677 | 41 | 76692 | 17.127 | ug/1 | 97 |
| 49) 1,4-Dioxane | 9.694 | 88 | 27492 | 360.936 | ug/1 | 99 |
| 51) 4-Methyl-2-Pentanone | 10.441 | 43 | 469595 | 89.934 | ug/1 | 99 |
| 52) Toluene | 10.624 | 92 | 174573 | 18.029 | ug/1 | 99 |
| 53) t-1,3-Dichloropropene | 10.835 | 75 | 105914 | 18.151 | ug/1 | 99 |
| 54) cis-1,3-Dichloropropene | 10.306 | 75 | 113584 | 17.722 | ug/1 | 98 |
| 55) 1,1,2-Trichloroethane | 11.012 | 97 | 62343 | 17.895 | ug/1 | 99 |
| 56) Ethyl methacrylate | 10.871 | 69 | 113753 | 17.763 | ug/1 | 99 |
| 57) 1,3-Dichloropropane | 11.159 | 76 | 110884 | 17.939 | ug/1 | 100 |
| 58) 2-Chloroethyl Vinyl ether | 10.159 | 63 | 225469 | 74.181 | ug/1 | 100 |
| 59) 2-Hexanone | 11.194 | 43 | 358683 | 92.611 | ug/1 | 100 |
| 60) Dibromochloromethane | 11.353 | 129 | 69031 | 18.045 | ug/1 | 100 |
| 61) 1,2-Dibromoethane | 11.465 | 107 | 63744 | 18.134 | ug/1 | 99 |
| 64) Tetrachloroethene | 11.100 | 164 | 65974 | 18.639 | ug/1 | 98 |
| 65) Chlorobenzene | 11.888 | 112 | 184055 | 17.923 | ug/1 | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 11.959 | 131 | 60477 | 17.852 | ug/1 | 99 |
| 67) Ethyl Benzene | 11.959 | 91 | 332795 | 17.959 | ug/1 | 99 |
| 68) m/p-Xylenes | 12.065 | 106 | 252292 | 36.335 | ug/1 | 97 |
| 69) o-Xylene | 12.394 | 106 | 123540 | 17.991 | ug/1 | 98 |
| 70) Styrene | 12.412 | 104 | 207507 | 18.137 | ug/1 | 99 |
| 71) Bromoform | 12.576 | 173 | 46081 | 18.067 | ug/1 # | 98 |
| 73) Isopropylbenzene | 12.694 | 105 | 304303 | 17.829 | ug/1 | 99 |
| 74) N-amyl acetate | 12.488 | 43 | 139157 | 16.378 | ug/1 | 100 |
| 75) 1,1,2,2-Tetrachloroethane | 12.935 | 83 | 83847 | 17.086 | ug/1 | 98 |
| 76) 1,2,3-Trichloropropane | 12.988 | 75 | 84064m | 17.073 | ug/1 | |
| 77) Bromobenzene | 12.976 | 156 | 67868 | 17.946 | ug/1 | 99 |
| 78) n-propylbenzene | 13.035 | 91 | 362369 | 18.018 | ug/1 | 99 |
| 79) 2-Chlorotoluene | 13.123 | 91 | 223889 | 17.790 | ug/1 | 99 |
| 80) 1,3,5-Trimethylbenzene | 13.171 | 105 | 251187 | 17.981 | ug/1 | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.735 | 75 | 39861 | 19.443 | ug/1 | 94 |
| 82) 4-Chlorotoluene | 13.218 | 91 | 222909 | 17.831 | ug/1 | 99 |
| 83) tert-Butylbenzene | 13.435 | 119 | 220122 | 18.186 | ug/1 | 97 |
| 84) 1,2,4-Trimethylbenzene | 13.476 | 105 | 254651 | 17.909 | ug/1 | 99 |
| 85) sec-Butylbenzene | 13.612 | 105 | 304877 | 18.159 | ug/1 | 100 |
| 86) p-Isopropyltoluene | 13.723 | 119 | 251538 | 18.177 | ug/1 | 100 |
| 87) 1,3-Dichlorobenzene | 13.729 | 146 | 127951 | 17.998 | ug/1 | 99 |
| 88) 1,4-Dichlorobenzene | 13.812 | 146 | 128408 | 17.933 | ug/1 | 100 |
| 89) n-Butylbenzene | 14.053 | 91 | 227898 | 18.579 | ug/1 | 100 |
| 90) Hexachloroethane | 14.329 | 117 | 41324 | 17.753 | ug/1 | 98 |
| 91) 1,2-Dichlorobenzene | 14.106 | 146 | 123552 | 17.926 | ug/1 | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.717 | 75 | 18530 | 18.727 | ug/1 | 98 |
| 93) 1,2,4-Trichlorobenzene | 15.388 | 180 | 63878 | 19.355 | ug/1 | 99 |
| 94) Hexachlorobutadiene | 15.500 | 225 | 24374 | 19.564 | ug/1 | 98 |
| 95) Naphthalene | 15.635 | 128 | 222770 | 19.041 | ug/1 | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.835 | 180 | 59442 | 19.024 | ug/1 | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
Data File : VN086289.D
Acq On : 16 Apr 2025 11:52
Operator : JC\MD
Sample : VN0416WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBS01

Manual Integrations
APPROVED

Reviewed By :John Carbone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

Quant Time: Apr 17 03:05:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 16 04:19:23 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

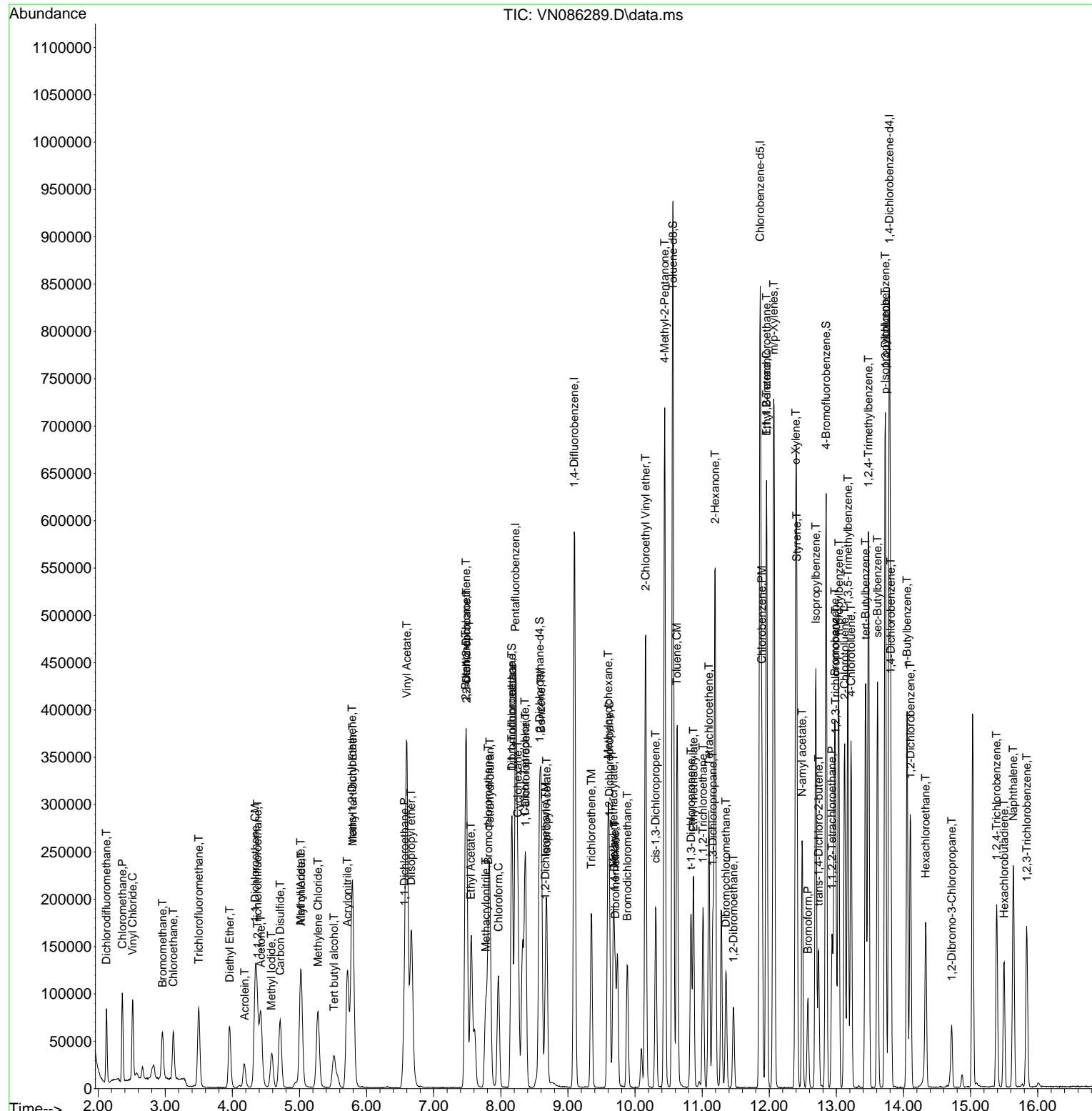
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Sample : VN0416WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

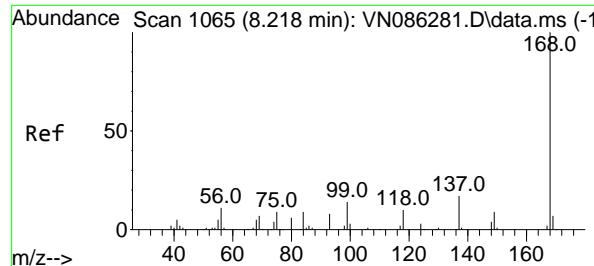
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Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBS01

Manual Integrations APPROVED

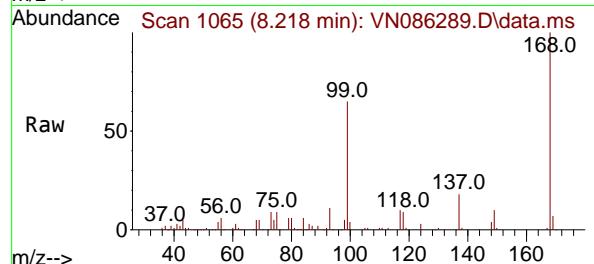
Reviewed By :John Caralone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

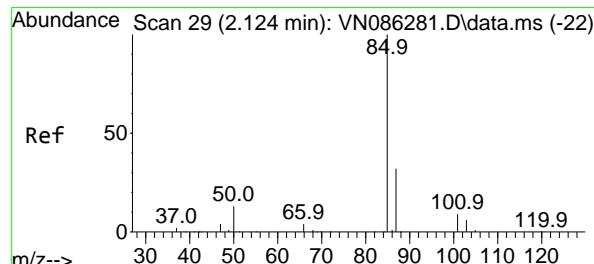
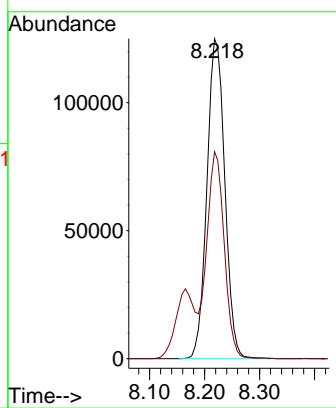
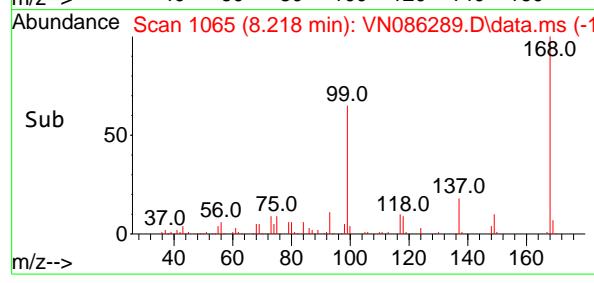
Instrument :
MSVOA_N
ClientSampleId :
VN0416WBS01



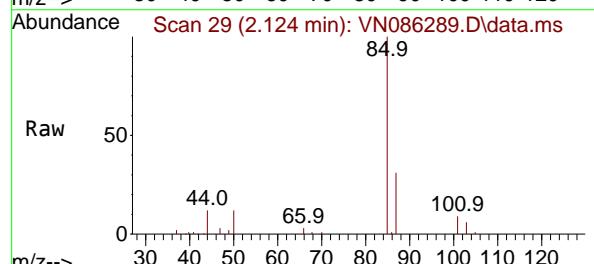
Tgt Ion:168 Resp: 28256
Ion Ratio Lower Upper
168 100
99 64.7 52.5 78.7

Manual Integrations APPROVED

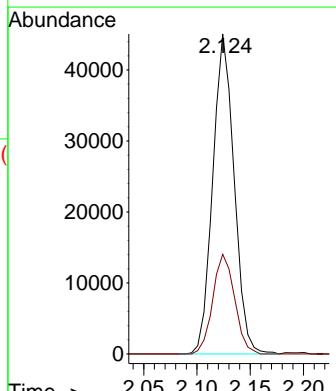
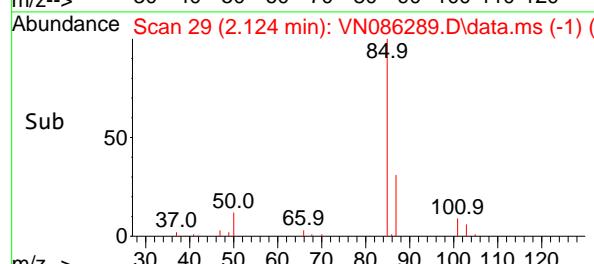
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

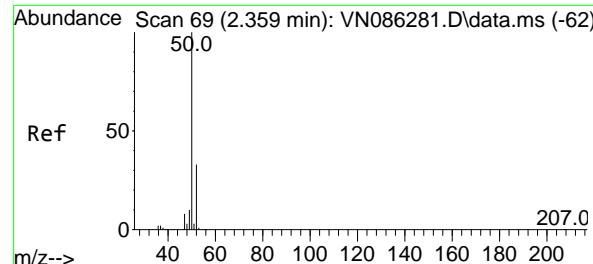


#2
Dichlorodifluoromethane
Concen: 18.759 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

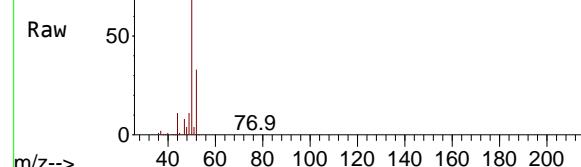


Tgt Ion: 85 Resp: 62834
Ion Ratio Lower Upper
85 100
87 31.2 16.3 48.8

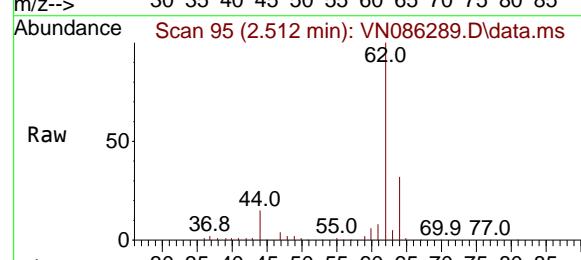
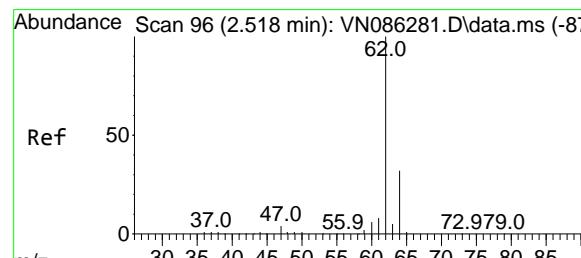
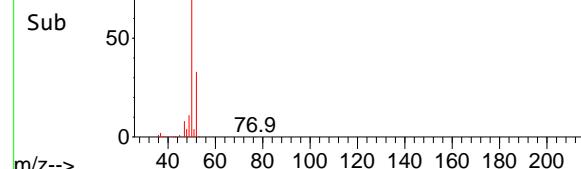




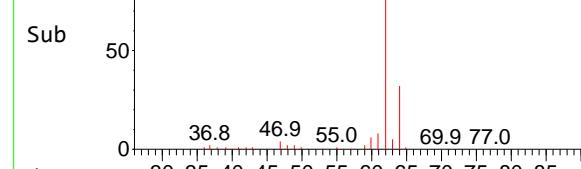
Abundance Scan 69 (2.359 min): VN086289.D\data.ms



Abundance Scan 69 (2.359 min): VN086289.D\data.ms (-18)



Abundance Scan 95 (2.512 min): VN086289.D\data.ms (-45)



#3

Chloromethane

Concen: 17.177 ug/l

RT: 2.359 min Scan# 6

Delta R.T. 0.000 min

Lab File: VN086289.D

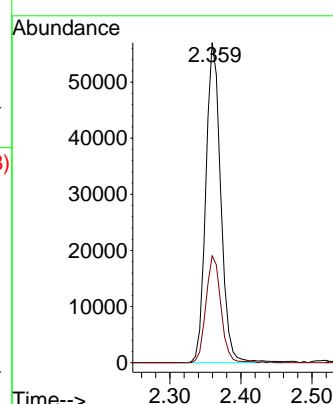
Acq: 16 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VN0416WBS01

Manual Integrations
APPROVED
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

#4

Vinyl Chloride

Concen: 17.784 ug/l

RT: 2.512 min Scan# 95

Delta R.T. -0.006 min

Lab File: VN086289.D

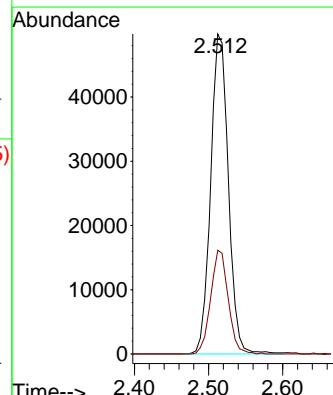
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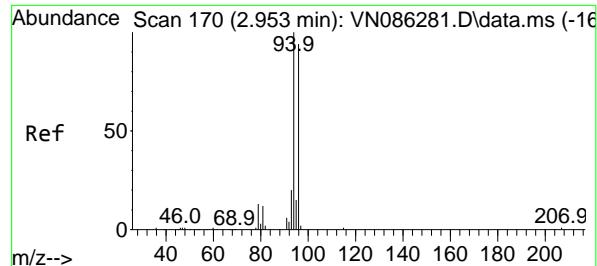
Tgt Ion: 62 Resp: 82618

Ion Ratio Lower Upper

62 100

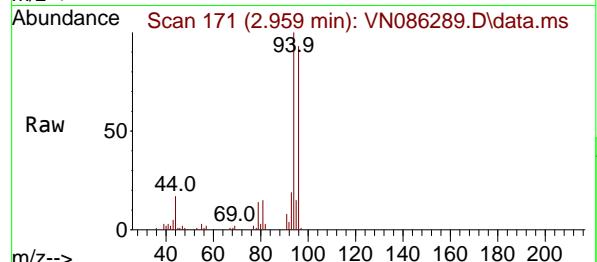
64 32.4 25.6 38.4





#5
Bromomethane
Concen: 19.688 ug/l
RT: 2.959 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

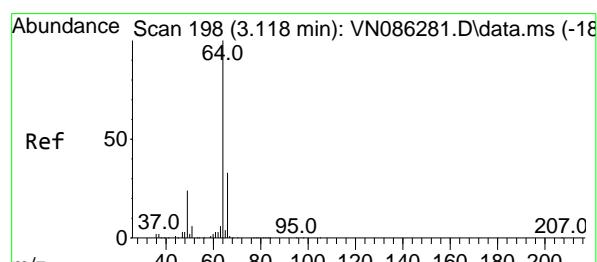
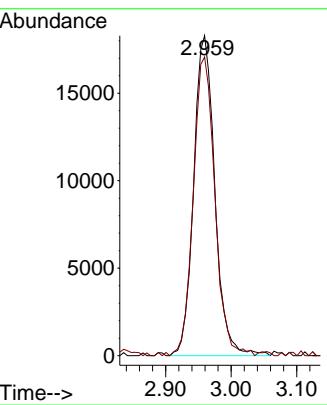
Instrument : MSVOA_N
ClientSampleId : VN0416WBS01



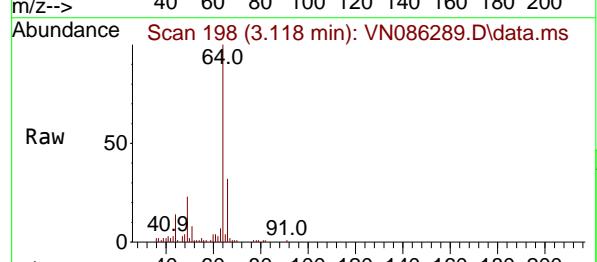
Tgt Ion: 94 Resp: 4114
Ion Ratio Lower Upper
94 100
96 93.4 75.2 112.8

Manual Integrations
APPROVED

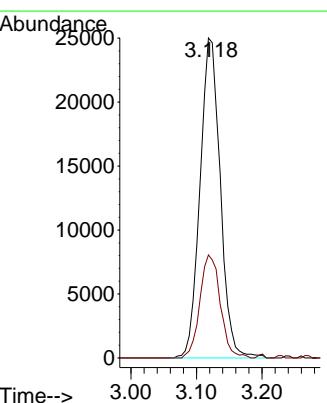
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

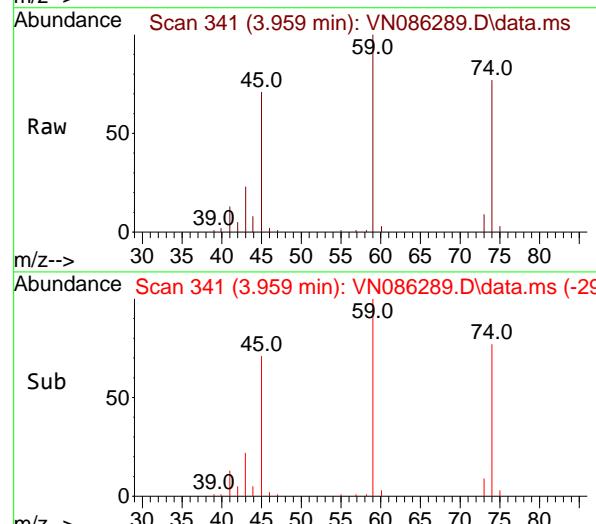
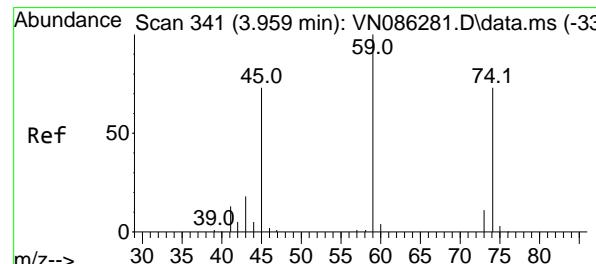
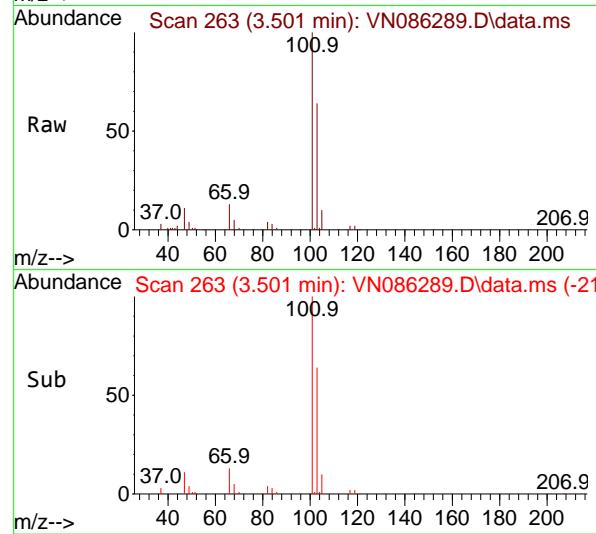
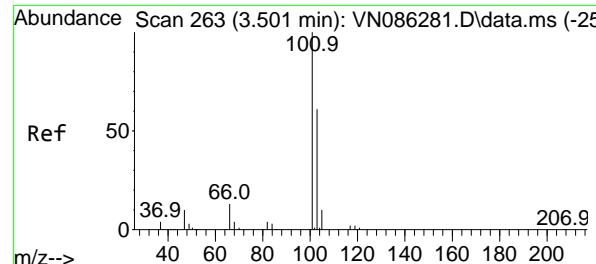


#6
Chloroethane
Concen: 17.275 ug/l
RT: 3.118 min Scan# 198
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52



Tgt Ion: 64 Resp: 53710
Ion Ratio Lower Upper
64 100
66 32.2 26.2 39.2





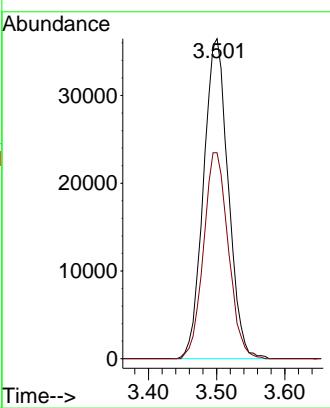
#7

Trichlorofluoromethane
Concen: 17.873 ug/l
RT: 3.501 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

Instrument : MSVOA_N
ClientSampleId : VN0416WBS01

Manual Integrations APPROVED

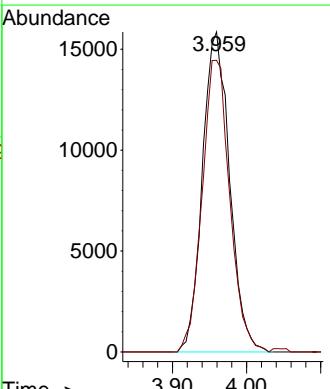
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

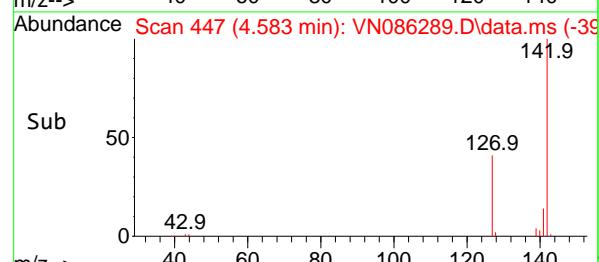
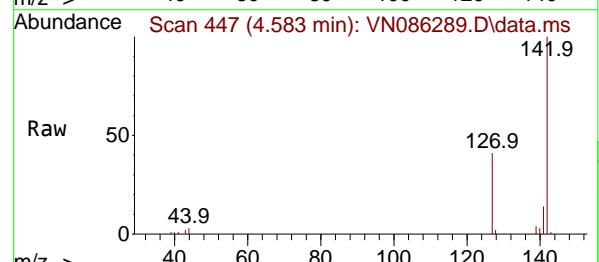
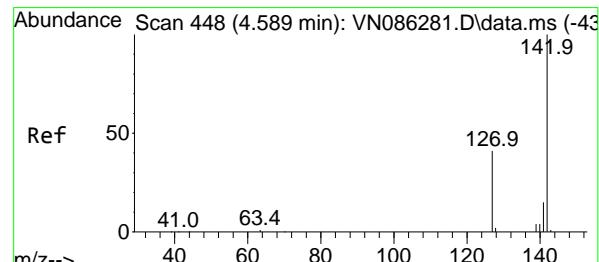
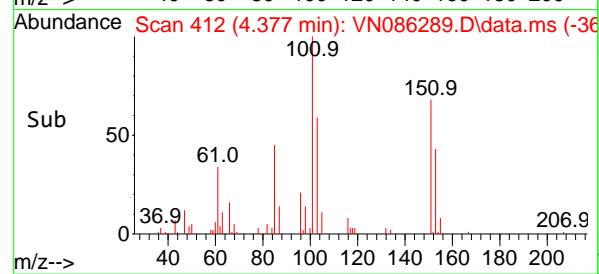
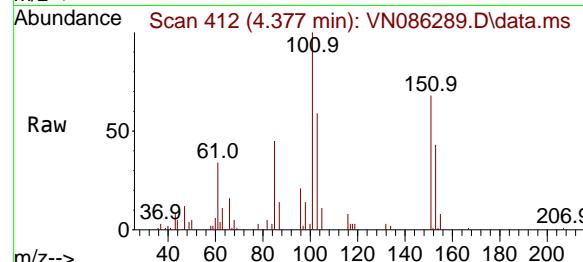
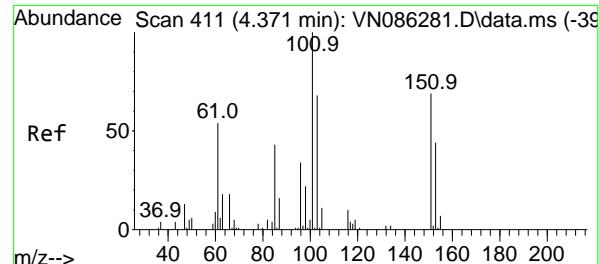


#8

Diethyl Ether
Concen: 17.968 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

Tgt Ion: 74 Resp: 40364
Ion Ratio Lower Upper
74 100
45 93.0 48.0 144.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.172 ug/l

RT: 4.377 min Scan# 4

Delta R.T. 0.006 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

Instrument :

MSVOA_N

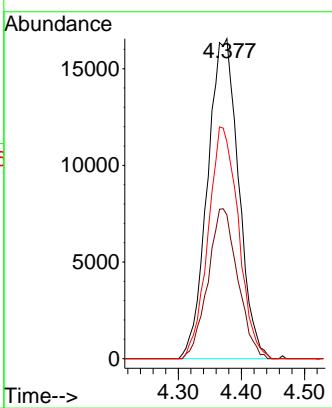
ClientSampleId :

VN0416WBS01

| Tgt | Ion:101 | Resp: | 5656 |
|-----|-----------|-------|-------|
| | Ion Ratio | Lower | Upper |
| 101 | 100 | | |
| 85 | 45.0 | 34.7 | 52.1 |
| 151 | 70.7 | 56.1 | 84.1 |

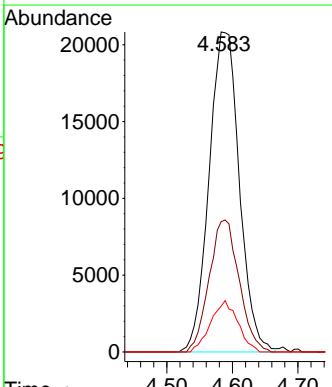
Manual Integrations APPROVED

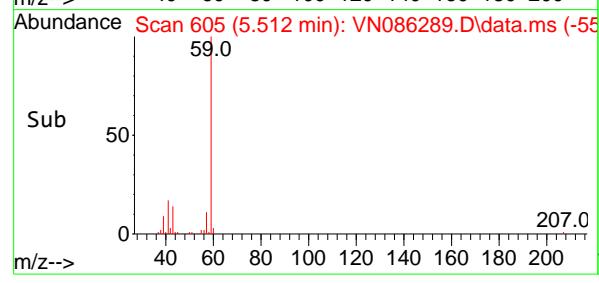
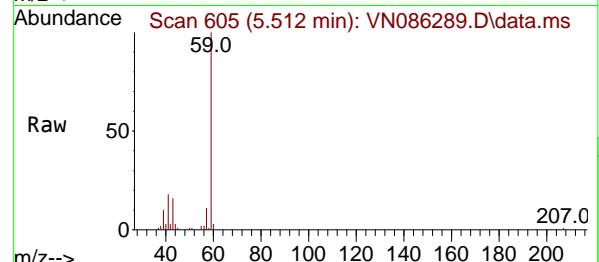
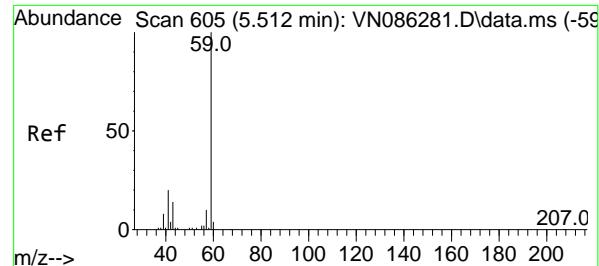
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#10
Methyl Iodide
Concen: 19.495 ug/l
RT: 4.583 min Scan# 447
Delta R.T. -0.006 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

| Tgt | Ion:142 | Resp: | 66719 |
|-----|-----------|-------|-------|
| | Ion Ratio | Lower | Upper |
| 142 | 100 | | |
| 127 | 40.7 | 32.7 | 49.1 |
| 141 | 14.3 | 11.7 | 17.5 |





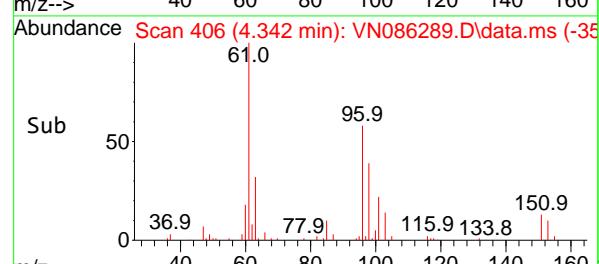
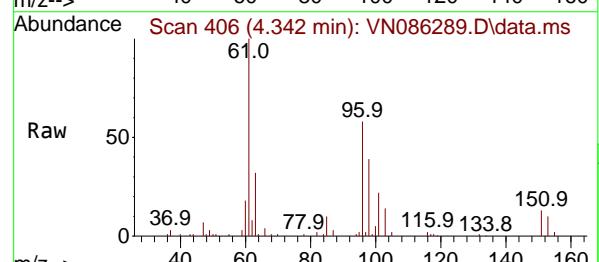
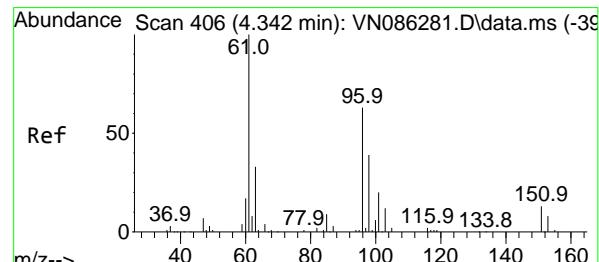
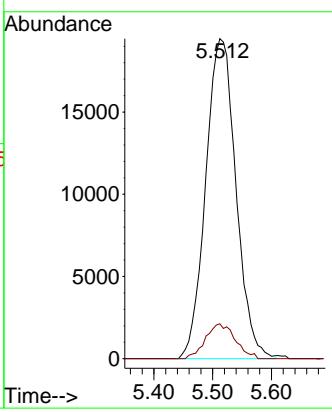
#11

Tert butyl alcohol
Concen: 93.093 ug/l
RT: 5.512 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

Instrument : MSVOA_N
ClientSampleId : VN0416WBS01

Manual Integrations APPROVED

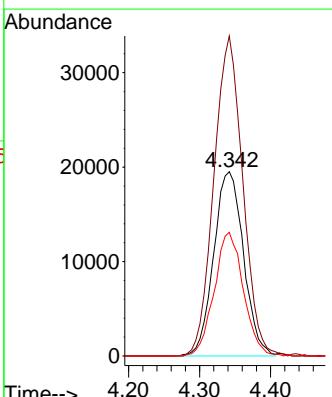
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

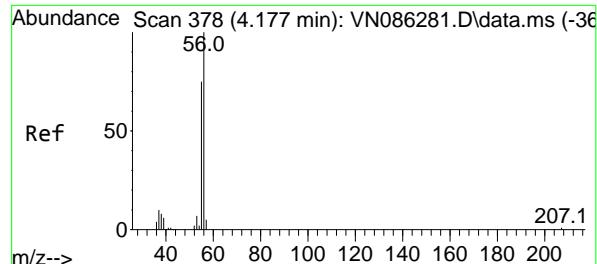


#12

1,1-Dichloroethene
Concen: 17.101 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

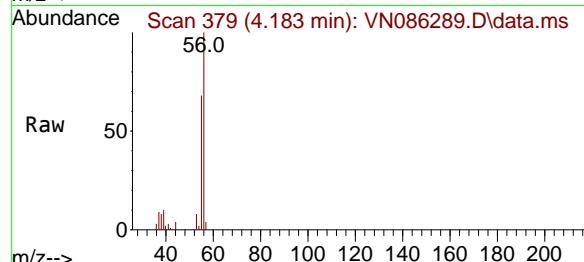
Tgt Ion: 96 Resp: 56875
Ion Ratio Lower Upper
96 100
61 173.7 126.6 189.8
98 67.2 49.6 74.4





#13
Acrolein
Concen: 86.849 ug/l
RT: 4.183 min Scan# 3
Delta R.T. 0.006 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

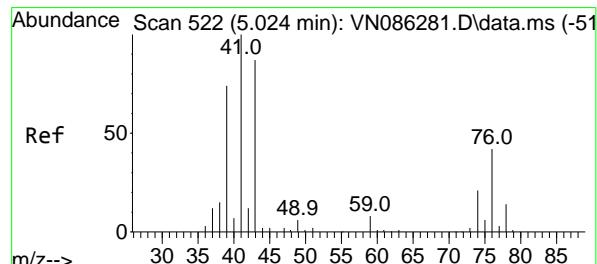
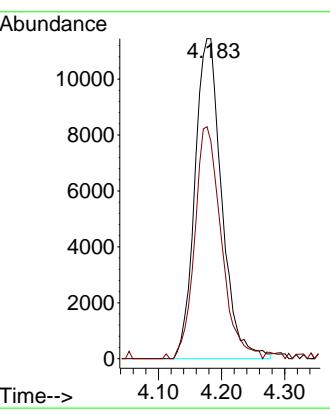
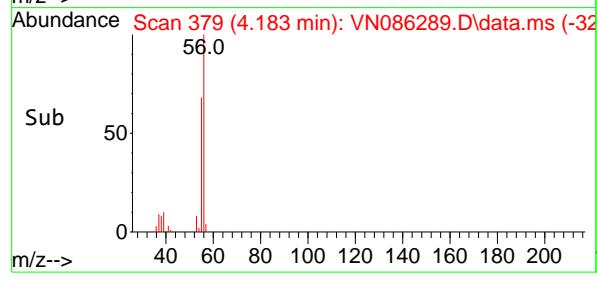
Instrument : MSVOA_N
ClientSampleId : VN0416WBS01



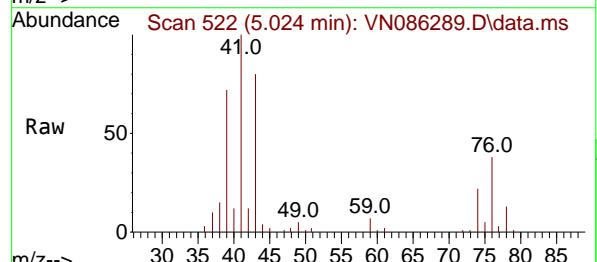
Tgt Ion: 56 Resp: 33709
Ion Ratio Lower Upper
56 100
55 71.8 58.5 87.7

Manual Integrations APPROVED

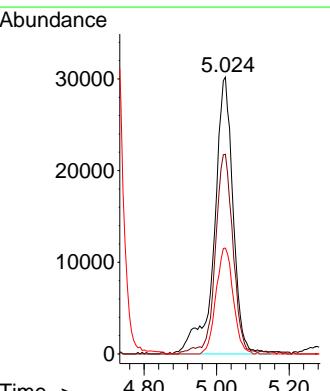
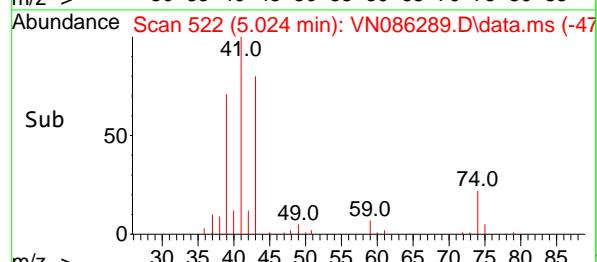
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

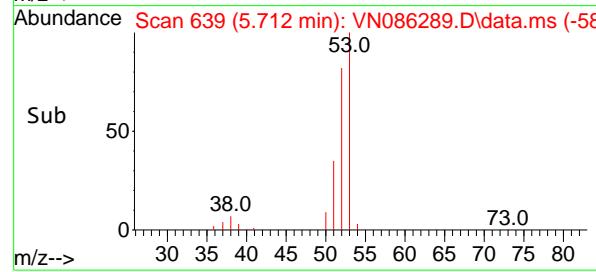
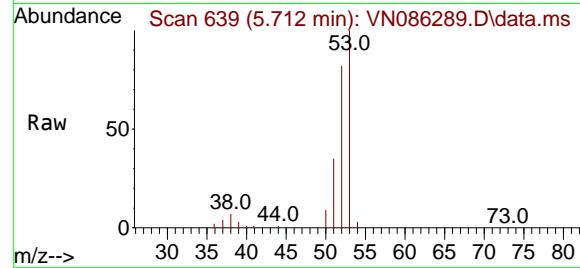
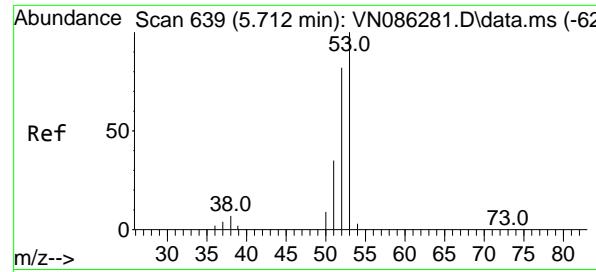


#14
Allyl chloride
Concen: 18.337 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52



Tgt Ion: 41 Resp: 108413
Ion Ratio Lower Upper
41 100
39 68.1 59.2 88.8
76 35.1 31.2 46.8





#15

Acrylonitrile

Concen: 91.453 ug/l

RT: 5.712 min Scan# 6

Delta R.T. 0.000 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

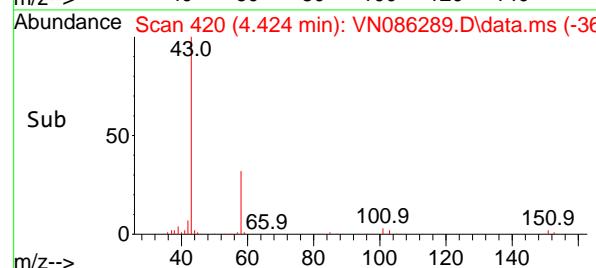
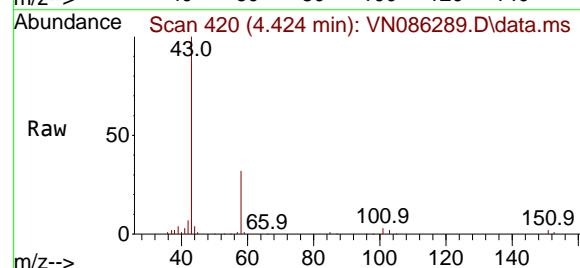
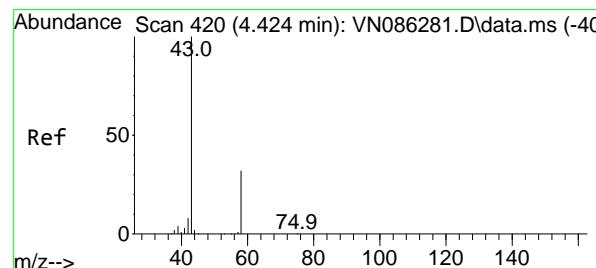
Instrument:

MSVOA_N

ClientSampleId :

VN0416WBS01

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/17/2025
 Supervised By :Mahesh Dadoda 04/17/2025


#16

Acetone

Concen: 101.823 ug/l

RT: 4.424 min Scan# 420

Delta R.T. 0.000 min

Lab File: VN086289.D

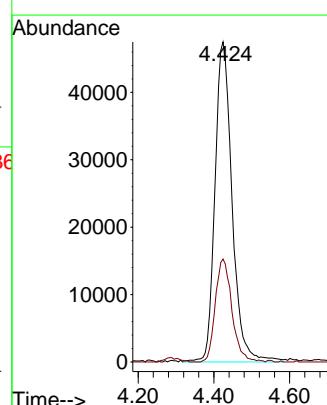
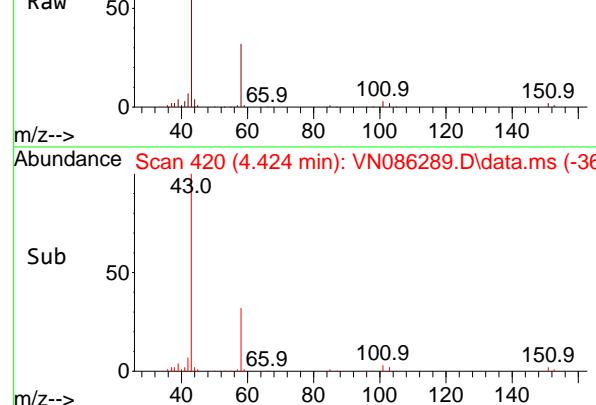
Acq: 16 Apr 2025 11:52

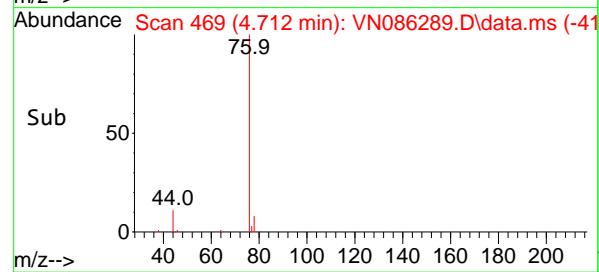
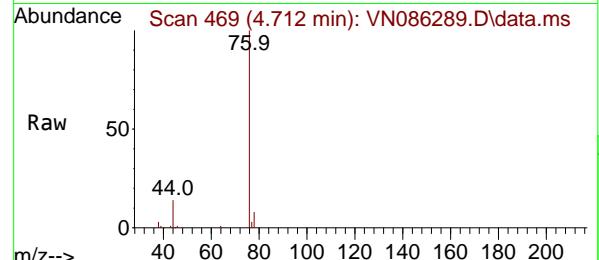
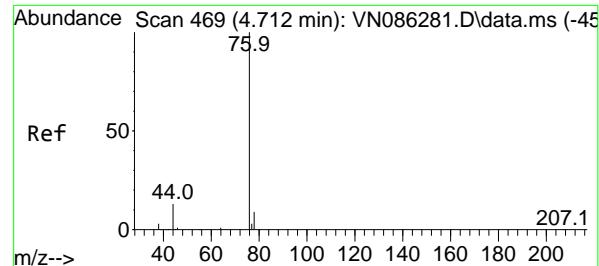
Tgt Ion: 43 Resp: 149040

Ion Ratio Lower Upper

43 100

58 32.2 25.3 37.9





#17

Carbon Disulfide

Concen: 16.798 ug/l

RT: 4.712 min Scan# 4

Delta R.T. 0.000 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

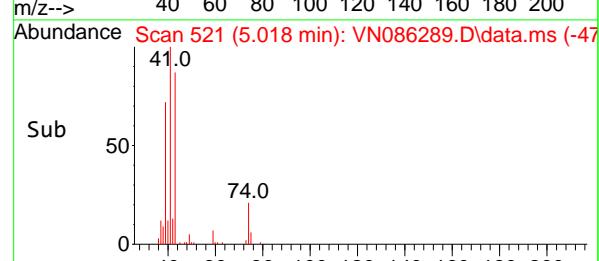
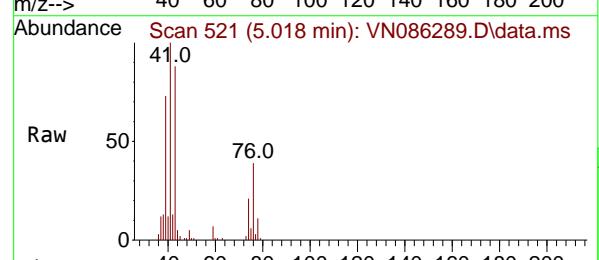
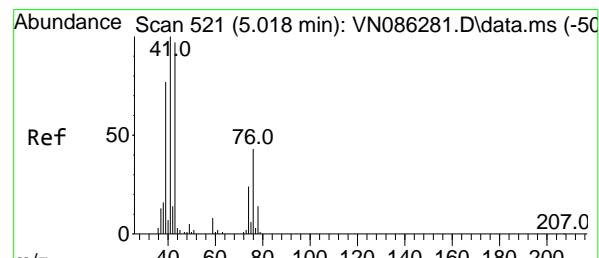
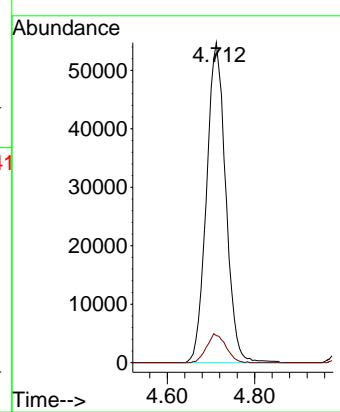
Instrument :

MSVOA_N

ClientSampleId :

VN0416WBS01

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/17/2025
 Supervised By :Mahesh Dadoda 04/17/2025


#18

Methyl Acetate

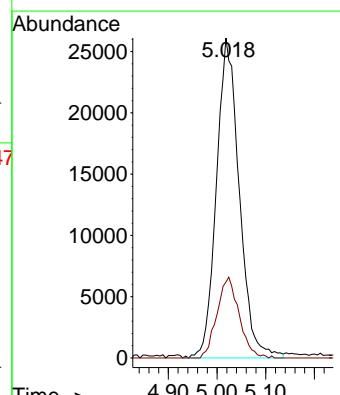
Concen: 17.297 ug/l

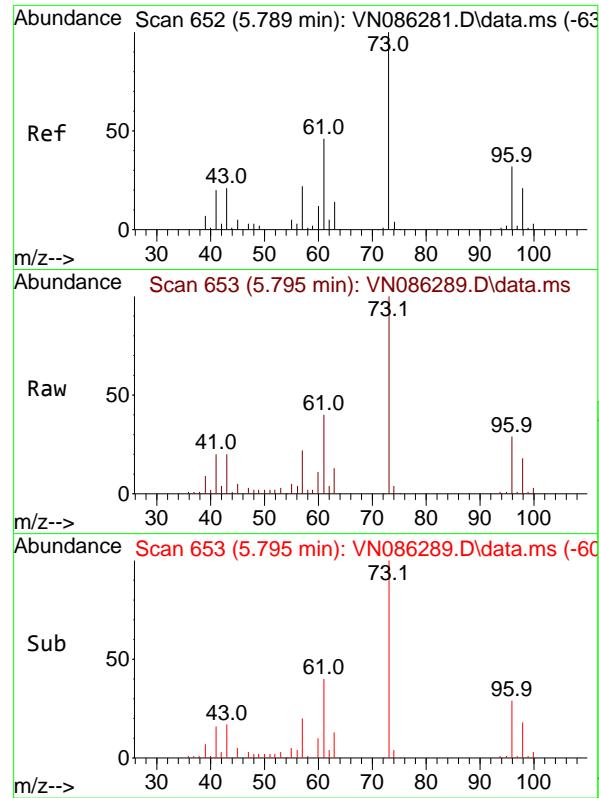
RT: 5.018 min Scan# 521

Delta R.T. 0.000 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

 Tgt Ion: 43 Resp: 85073
 Ion Ratio Lower Upper
 43 100
 74 24.4 19.8 29.6




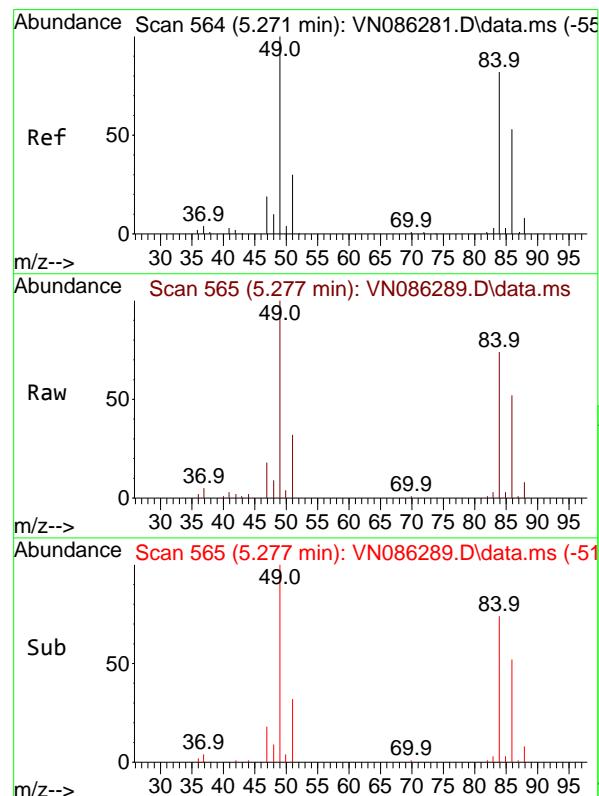
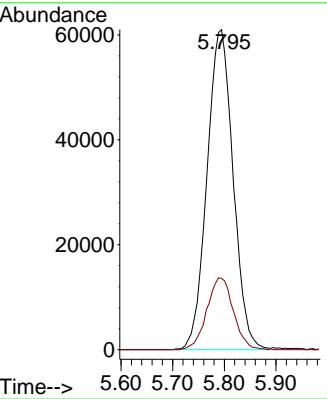
#19

Methyl tert-butyl Ether
Concen: 17.504 ug/l
RT: 5.795 min Scan# 6
Delta R.T. 0.006 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

Instrument : MSVOA_N
ClientSampleId : VN0416WBS01

Manual Integrations APPROVED

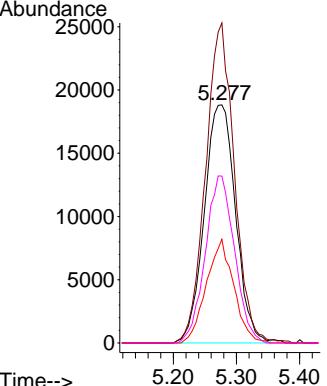
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

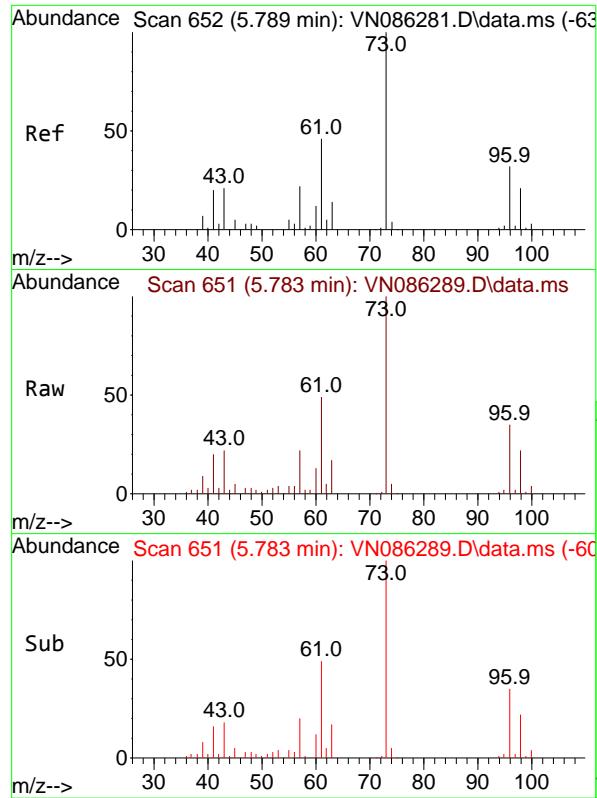


#20

Methylene Chloride
Concen: 17.087 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.006 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

Tgt Ion: 84 Resp: 64725
Ion Ratio Lower Upper
84 100
49 134.4 98.2 147.2
51 43.6 29.8 44.6
86 70.1 52.0 78.0



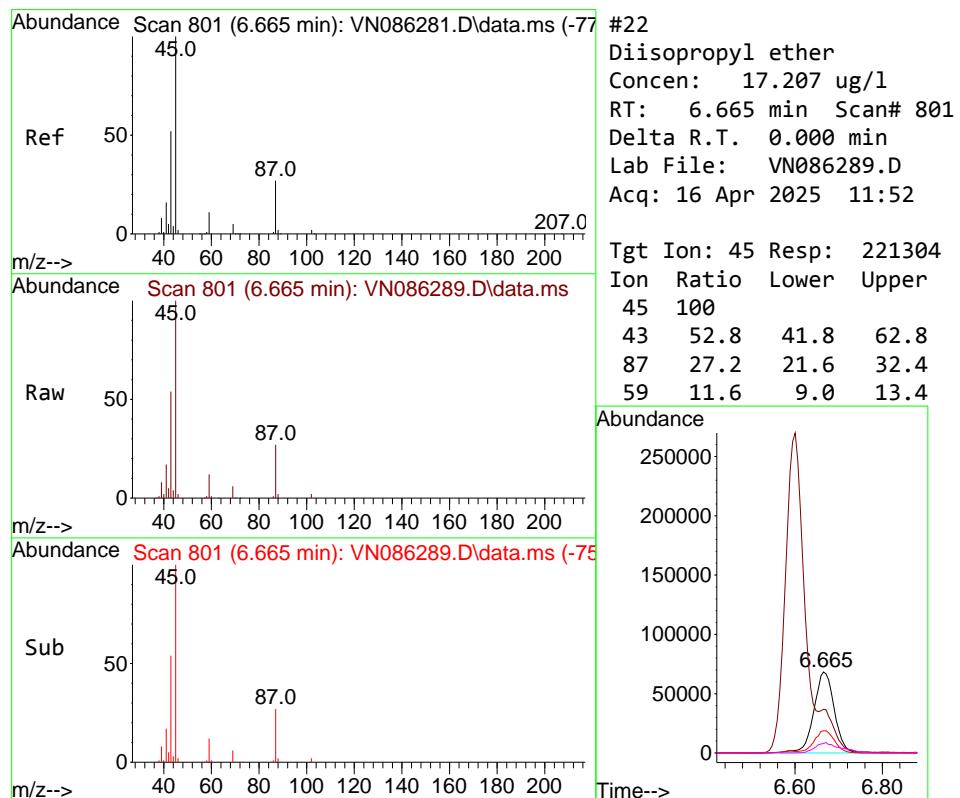
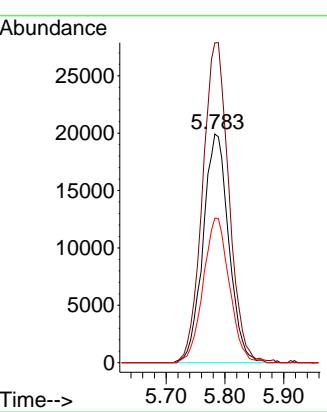


#21
trans-1,2-Dichloroethene
Concen: 17.368 ug/l
RT: 5.783 min Scan# 60388
Delta R.T. -0.006 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBS01

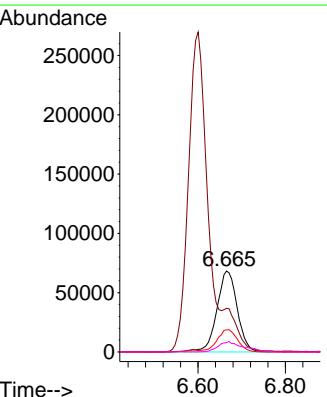
Manual Integrations APPROVED

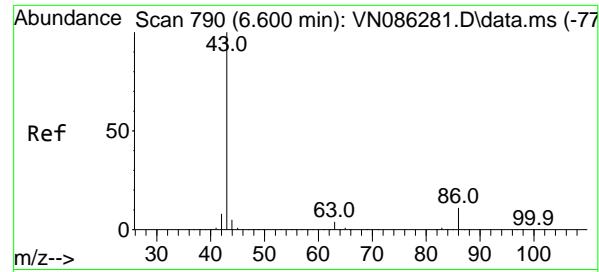
Reviewed By :John Carbone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



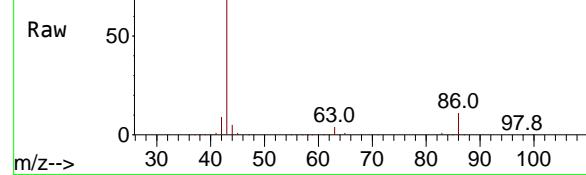
#22
Diisopropyl ether
Concen: 17.207 ug/l
RT: 6.665 min Scan# 801
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

Tgt Ion: 45 Resp: 221304
Ion Ratio Lower Upper
45 100
43 52.8 41.8 62.8
87 27.2 21.6 32.4
59 11.6 9.0 13.4

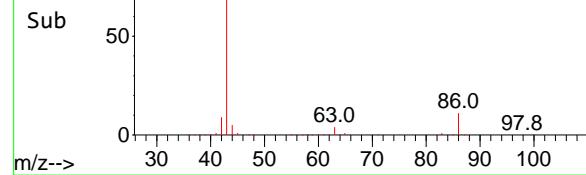




Abundance Scan 790 (6.600 min): VN086289.D\data.ms



Abundance Scan 790 (6.600 min): VN086289.D\data.ms (-73)



#23

Vinyl Acetate

Concen: 88.904 ug/l

RT: 6.600 min Scan# 7

Delta R.T. 0.000 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

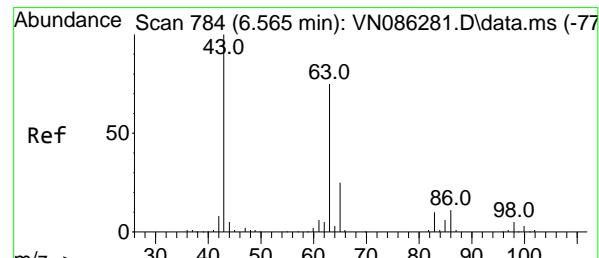
Instrument :

MSVOA_N

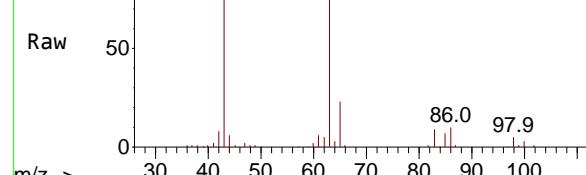
ClientSampleId :

VN0416WBS01

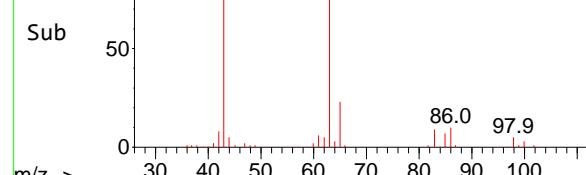
**Manual Integrations
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 Reviewed By :John Carlone 04/17/2025
 Supervised By :Mahesh Dadoda 04/17/2025


Abundance Scan 784 (6.565 min): VN086289.D\data.ms



Abundance Scan 784 (6.565 min): VN086289.D\data.ms (-73)



#24

1,1-Dichloroethane

Concen: 17.724 ug/l

RT: 6.565 min Scan# 784

Delta R.T. 0.000 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

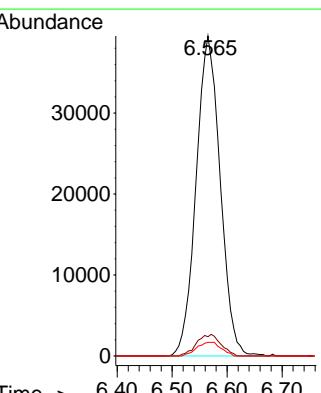
Tgt Ion: 63 Resp: 120270

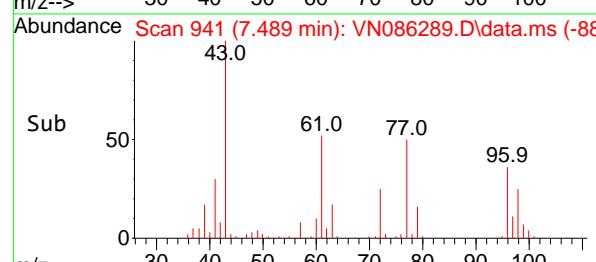
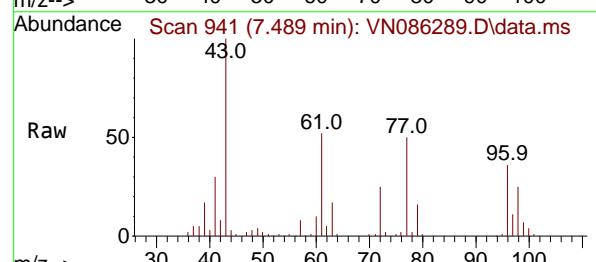
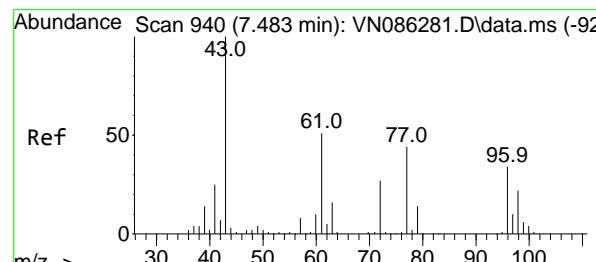
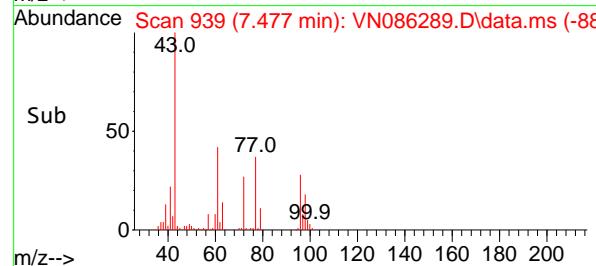
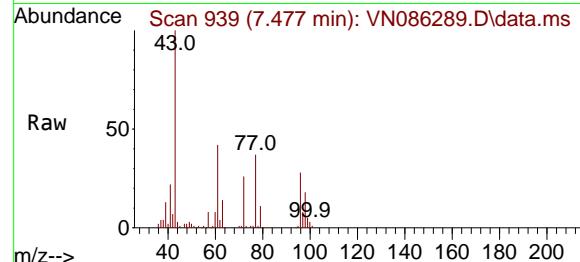
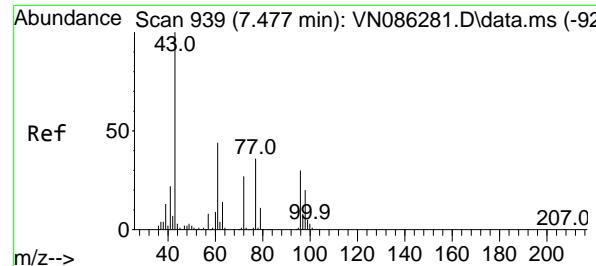
Ion Ratio Lower Upper

63 100

98 6.0 3.4 10.2

100 4.2 2.1 6.5





#25

2-Butanone

Concen: 93.400 ug/l

RT: 7.477 min Scan# 9

Delta R.T. 0.000 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VN0416WBS01

Tgt Ion: 43 Resp: 23821:

Ion Ratio Lower Upper

43 100

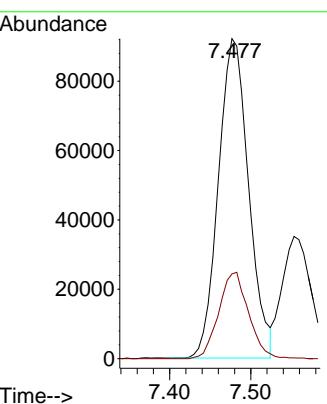
72 26.5 21.7 32.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#26

2,2-Dichloropropane

Concen: 18.273 ug/l

RT: 7.489 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN086289.D

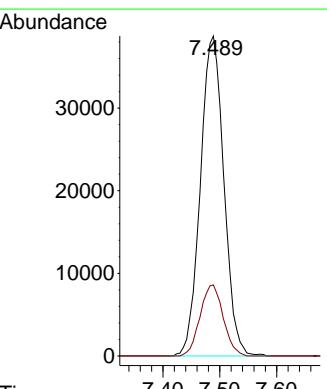
Acq: 16 Apr 2025 11:52

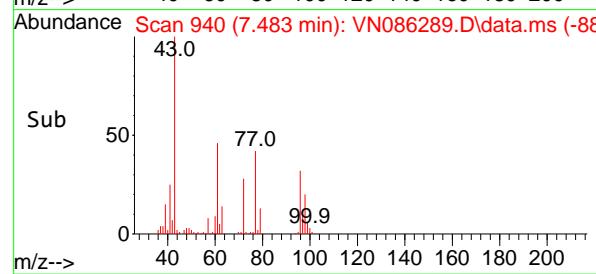
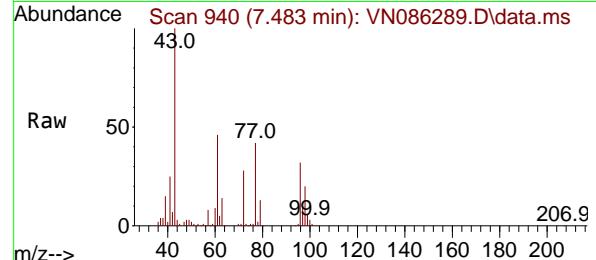
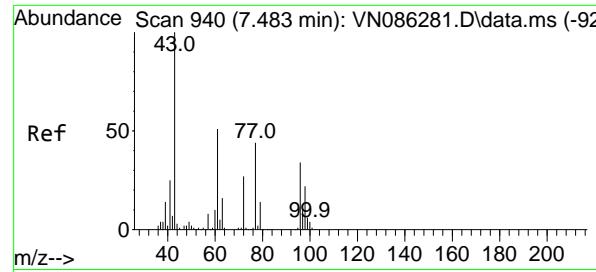
Tgt Ion: 77 Resp: 111024

Ion Ratio Lower Upper

77 100

97 21.9 11.2 33.5





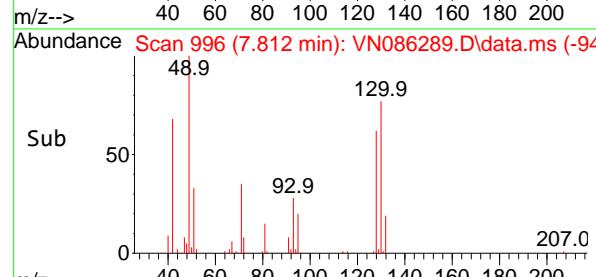
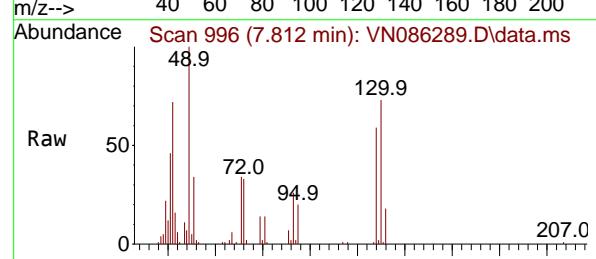
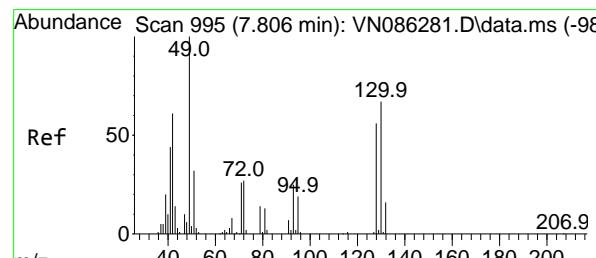
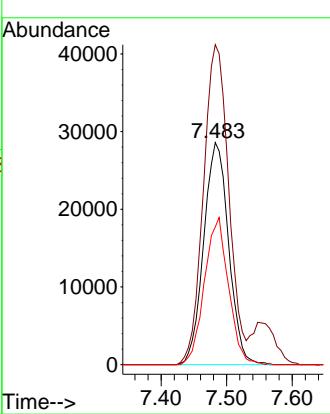
#27

cis-1,2-Dichloroethene
Concen: 17.486 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

Instrument : MSVOA_N
ClientSampleId : VN0416WBS01

Manual Integrations APPROVED

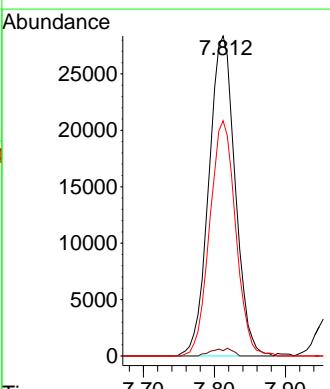
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

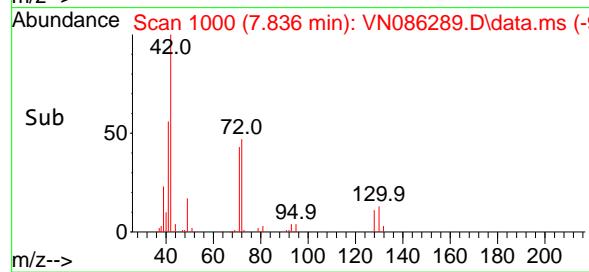
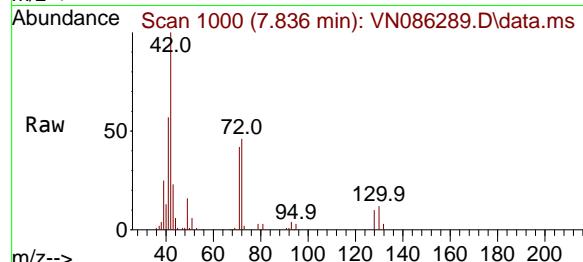
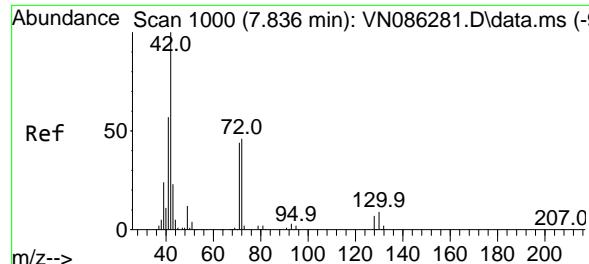


#28

Bromochloromethane
Concen: 25.364 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.006 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

Tgt Ion: 49 Resp: 72980
Ion Ratio Lower Upper
49 100
129 1.9 0.0 3.4
130 72.5 57.1 85.7





#29

Tetrahydrofuran

Concen: 88.099 ug/l

RT: 7.836 min Scan# 1000

Delta R.T. 0.000 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VN0416WBS01

Tgt Ion: 42 Resp: 150251

Ion Ratio Lower Upper

42 100

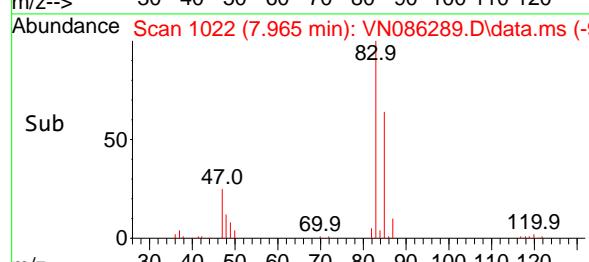
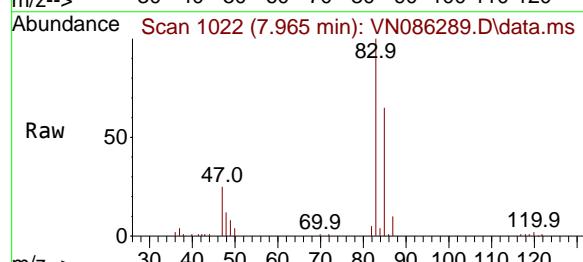
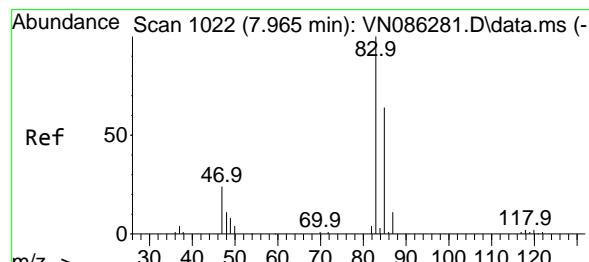
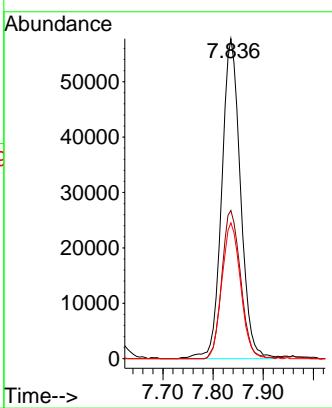
72 46.3 36.2 54.4

71 42.5 34.0 51.0

**Manual Integrations
APPROVED**

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#30

Chloroform

Concen: 17.504 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. 0.000 min

Lab File: VN086289.D

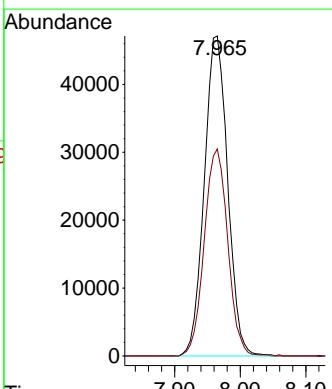
Acq: 16 Apr 2025 11:52

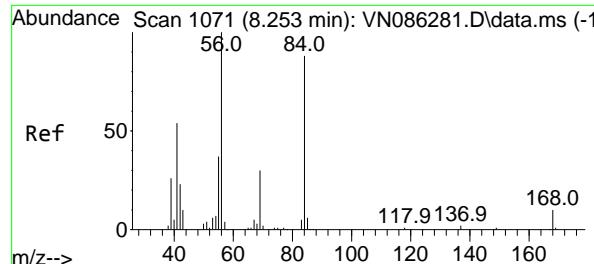
Tgt Ion: 83 Resp: 116681

Ion Ratio Lower Upper

83 100

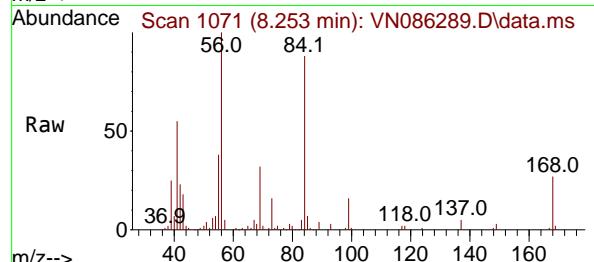
85 64.7 51.5 77.3





#31
Cyclohexane
Concen: 17.534 ug/l
RT: 8.253 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

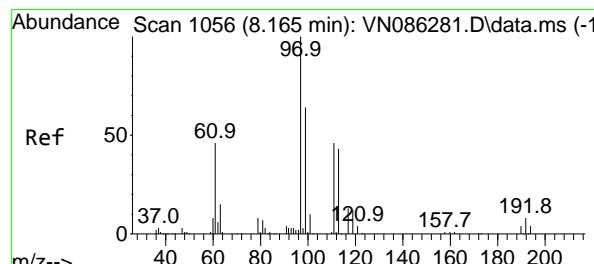
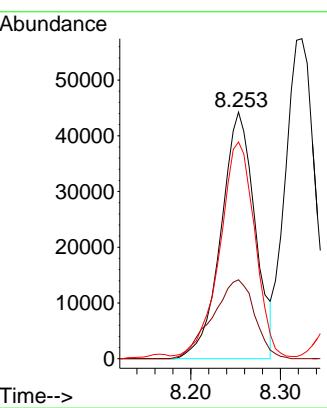
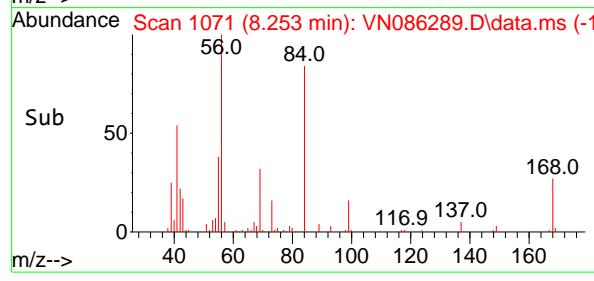
Instrument : MSVOA_N
ClientSampleId : VN0416WBS01



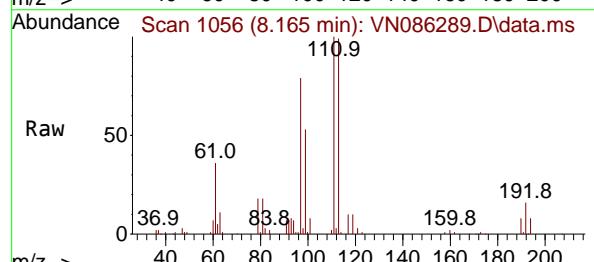
Tgt Ion: 56 Resp: 11643
Ion Ratio Lower Upper
56 100
69 32.0 24.2 36.2
84 86.7 70.3 105.5

Manual Integrations APPROVED

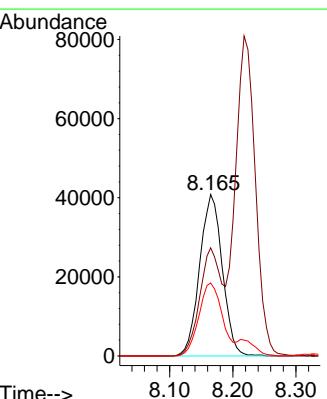
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

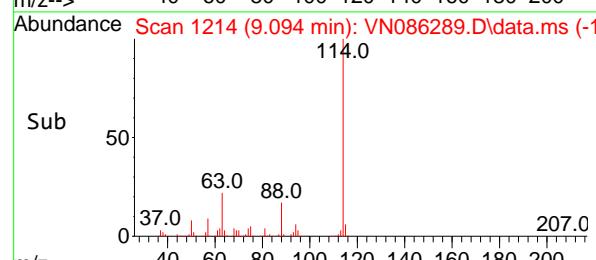
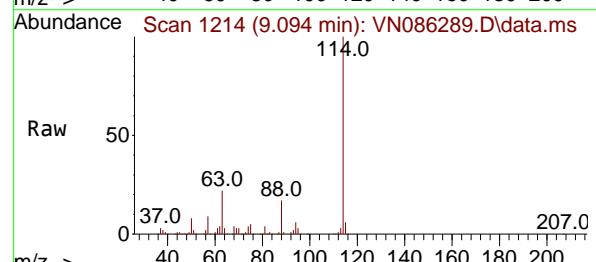
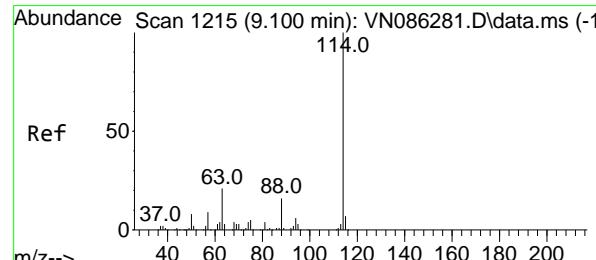
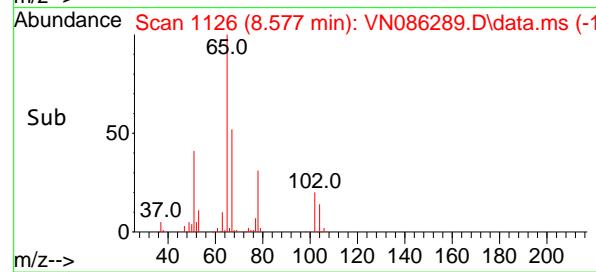
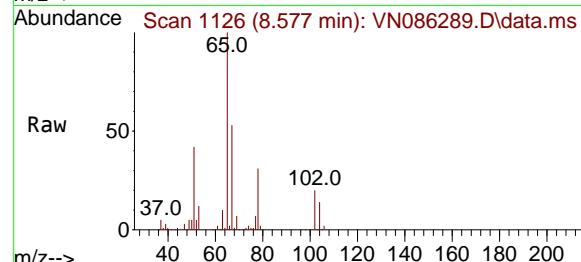
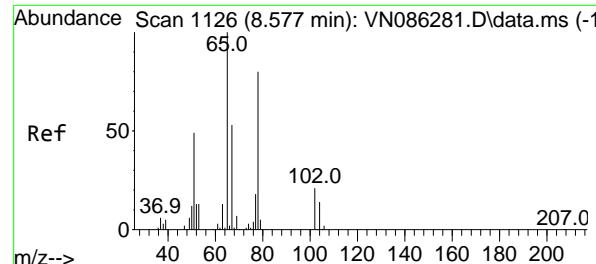


#32
1,1,1-Trichloroethane
Concen: 17.854 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52



Tgt Ion: 97 Resp: 101815
Ion Ratio Lower Upper
97 100
99 65.8 52.7 79.1
61 47.4 39.5 59.3





#33

1,2-Dichloroethane-d4

Concen: 50.596 ug/l

RT: 8.577 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VN0416WBS01

Tgt Ion: 65 Resp: 20731

Ion Ratio Lower Upper

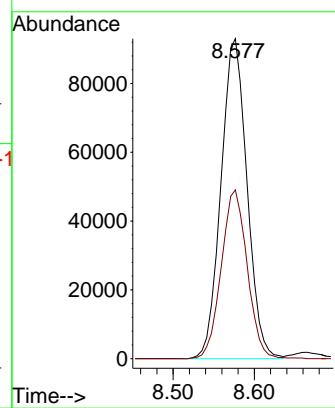
65 100

67 52.6 0.0 106.0

Manual Integrations**APPROVED**

Reviewed By :John Carbone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.094 min Scan# 1214

Delta R.T. -0.006 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

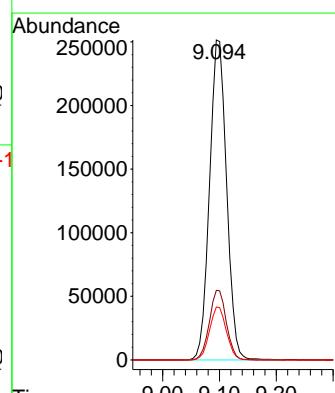
Tgt Ion:114 Resp: 522491

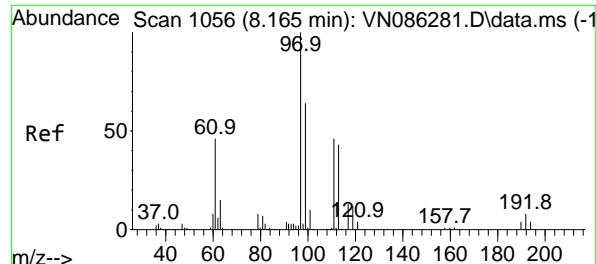
Ion Ratio Lower Upper

114 100

63 21.8 0.0 42.6

88 16.5 0.0 31.8





#35

Dibromofluoromethane

Concen: 50.406 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN086289.D

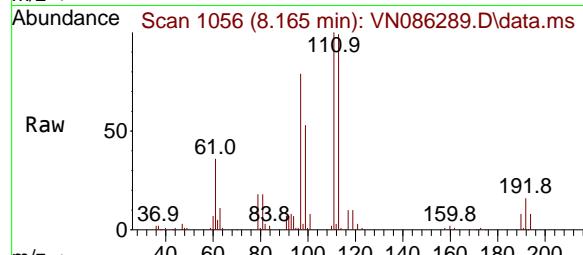
Acq: 16 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VN0416WBS01



Tgt Ion: 113 Resp: 122233

Ion Ratio Lower Upper

113 100

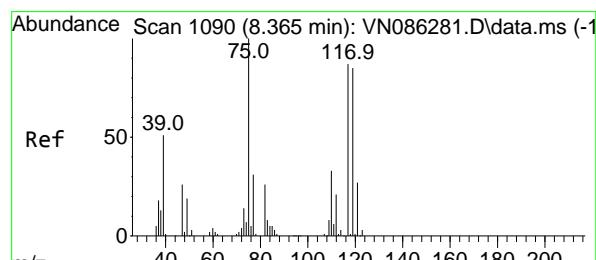
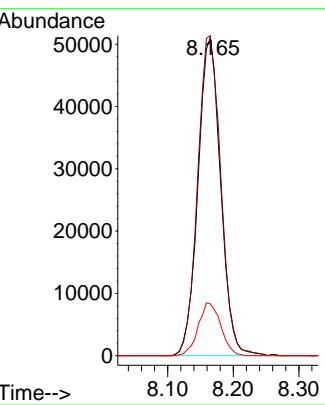
111 103.0 83.4 125.0

192 16.6 13.7 20.5

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#36

1,1-Dichloropropene

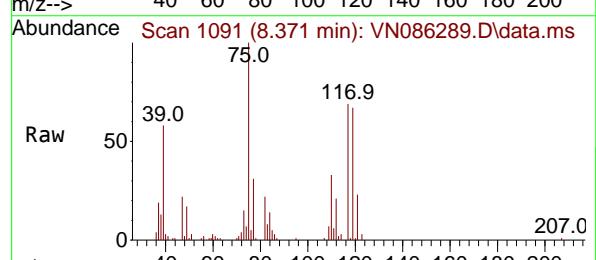
Concen: 18.051 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. 0.006 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52



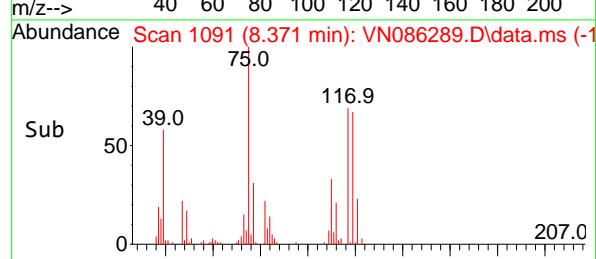
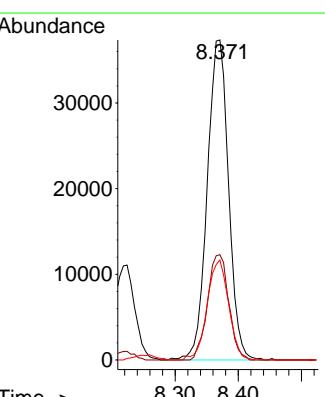
Tgt Ion: 75 Resp: 87429

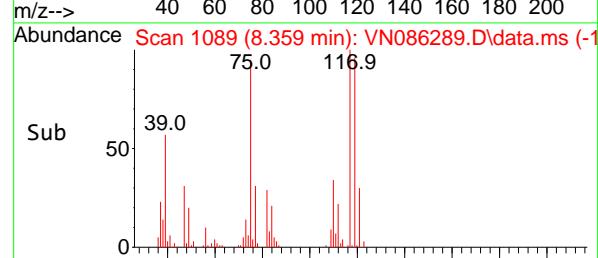
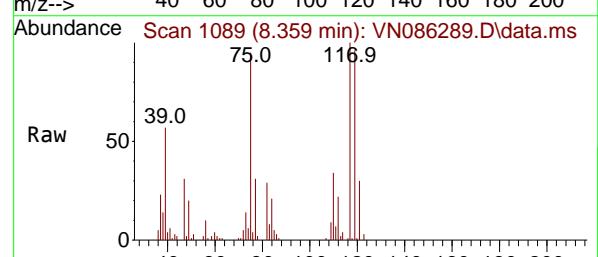
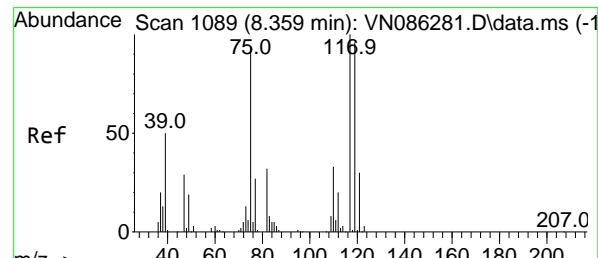
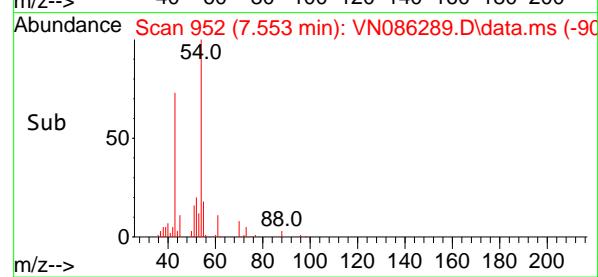
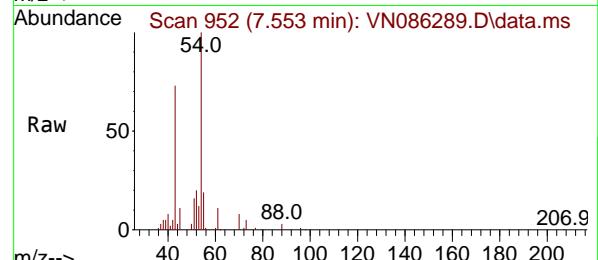
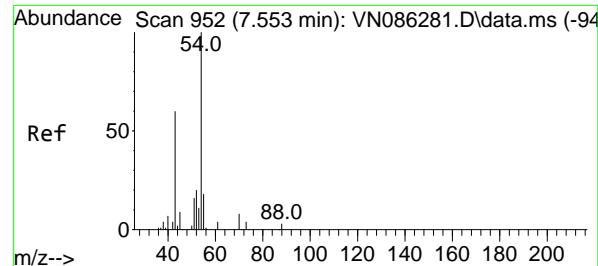
Ion Ratio Lower Upper

75 100

110 32.8 16.8 50.4

77 31.6 24.9 37.3





#37

Ethyl Acetate

Concen: 17.739 ug/l

RT: 7.553 min Scan# 9

Delta R.T. 0.000 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VN0416WBS01

Tgt Ion: 43 Resp: 9045

Ion Ratio Lower Upper

43 100

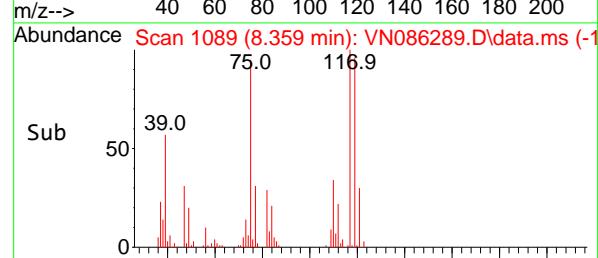
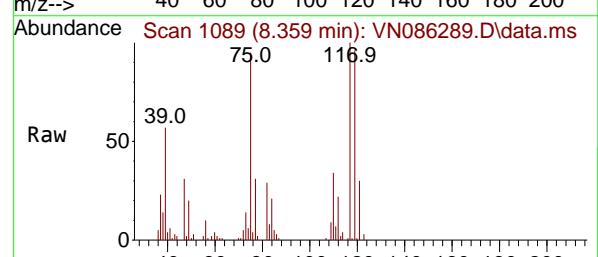
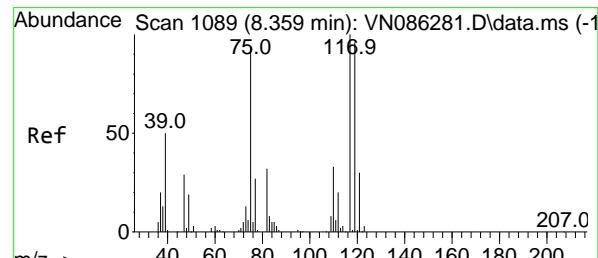
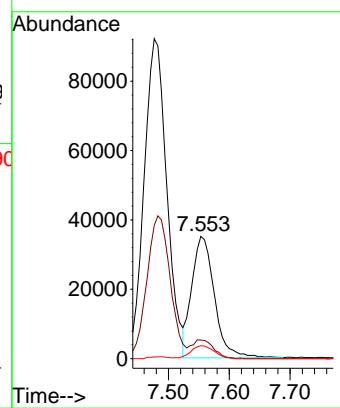
61 15.0 11.1 16.7

70 11.0 9.2 13.8

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#38
Carbon Tetrachloride
Concen: 17.938 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

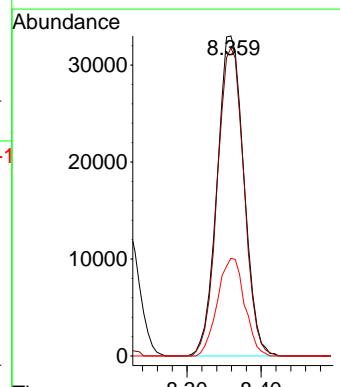
Tgt Ion:117 Resp: 82737

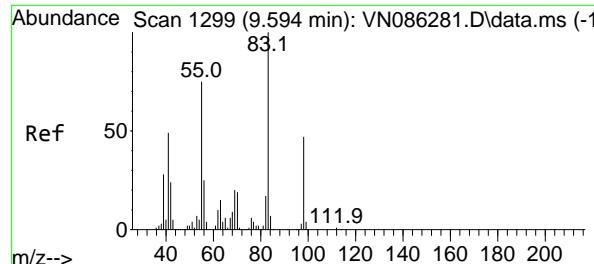
Ion Ratio Lower Upper

117 100

119 96.2 76.8 115.2

121 30.5 23.8 35.8





#39

Methylcyclohexane

Concen: 18.090 ug/l

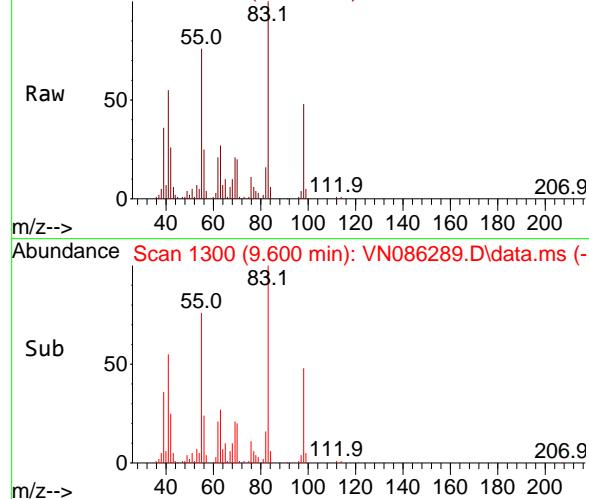
RT: 9.600 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

Abundance Scan 1300 (9.600 min): VN086289.D\data.ms



Tgt Ion: 83 Resp: 10414

Ion Ratio Lower Upper

83 100

55 76.3 59.8 89.8

98 47.7 37.9 56.9

Instrument :

MSVOA_N

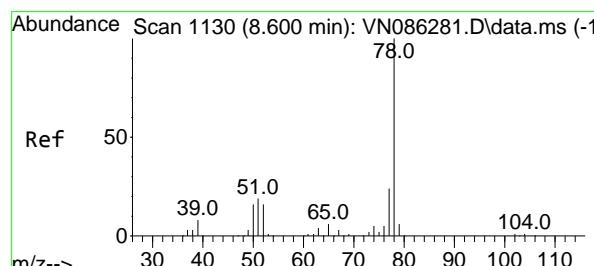
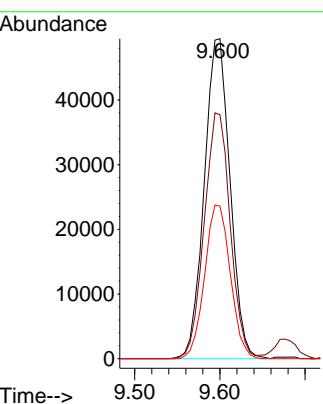
ClientSampleId :

VN0416WBS01

**Manual Integrations
APPROVED**

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#40

Benzene

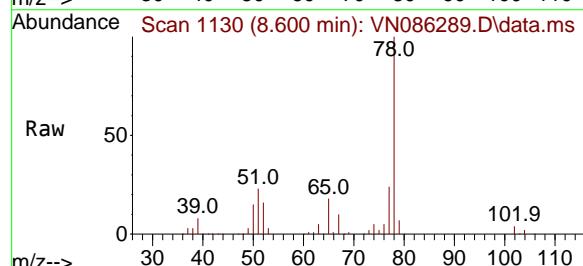
Concen: 17.916 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

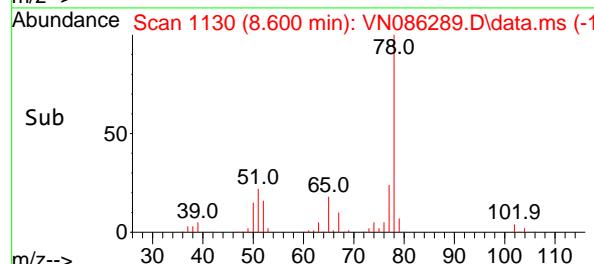
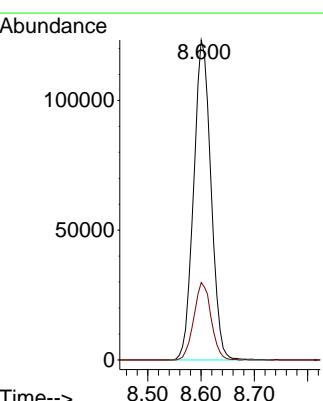


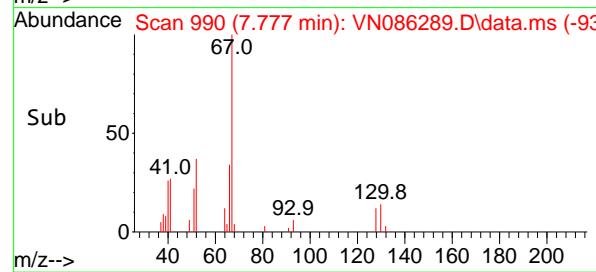
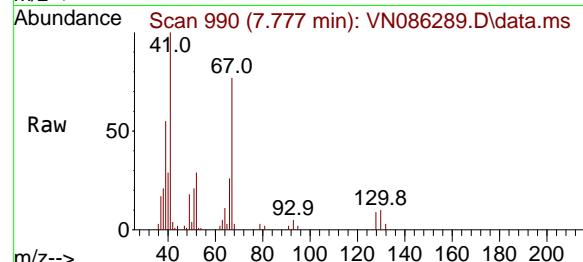
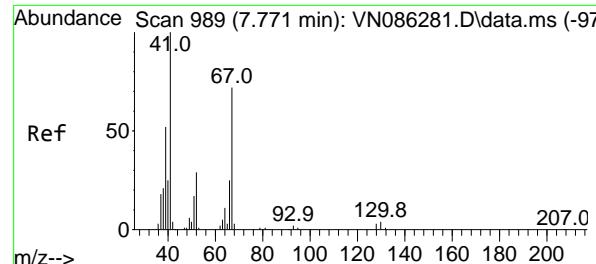
Tgt Ion: 78 Resp: 278025

Ion Ratio Lower Upper

78 100

77 24.2 19.4 29.2





#41

Methacrylonitrile

Concen: 17.301 ug/l

RT: 7.777 min Scan# 990

Delta R.T. 0.006 min

Lab File: VN086289.D

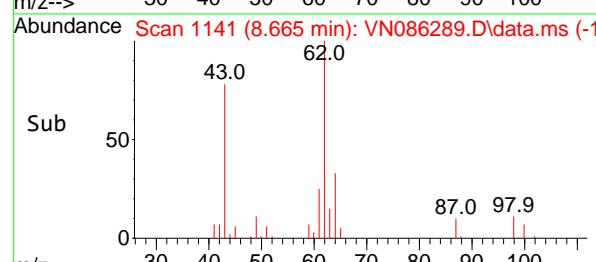
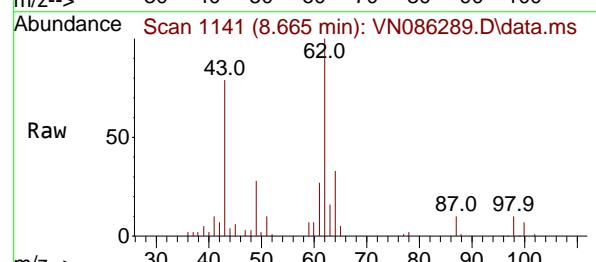
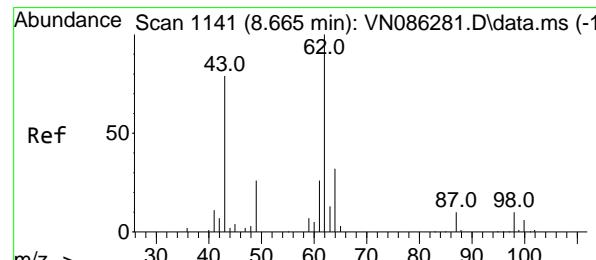
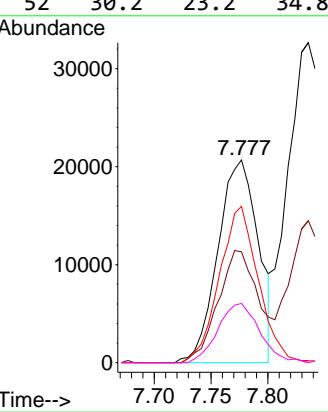
Acq: 16 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VN0416WBS01

**Manual Integrations
APPROVED**
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

#42

1,2-Dichloroethane

Concen: 17.743 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. -0.000 min

Lab File: VN086289.D

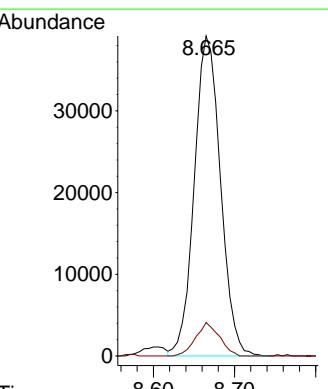
Acq: 16 Apr 2025 11:52

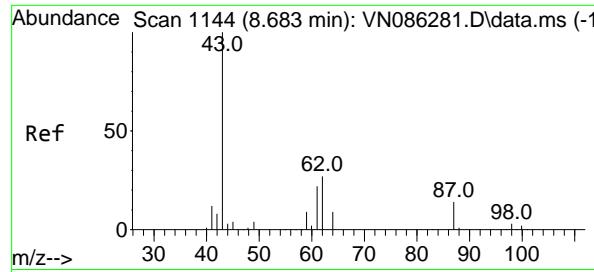
Tgt Ion: 62 Resp: 87802

Ion Ratio Lower Upper

62 100

98 9.5 0.0 19.2





#43

Isopropyl Acetate

Concen: 17.329 ug/l

RT: 8.683 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086289.D

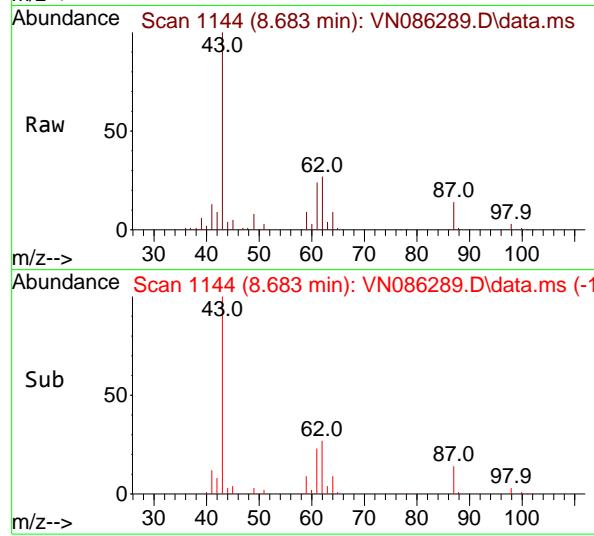
Acq: 16 Apr 2025 11:52

Instrument:

MSVOA_N

ClientSampleId :

VN0416WBS01



Tgt Ion: 43 Resp: 172063

Ion Ratio Lower Upper

43 100

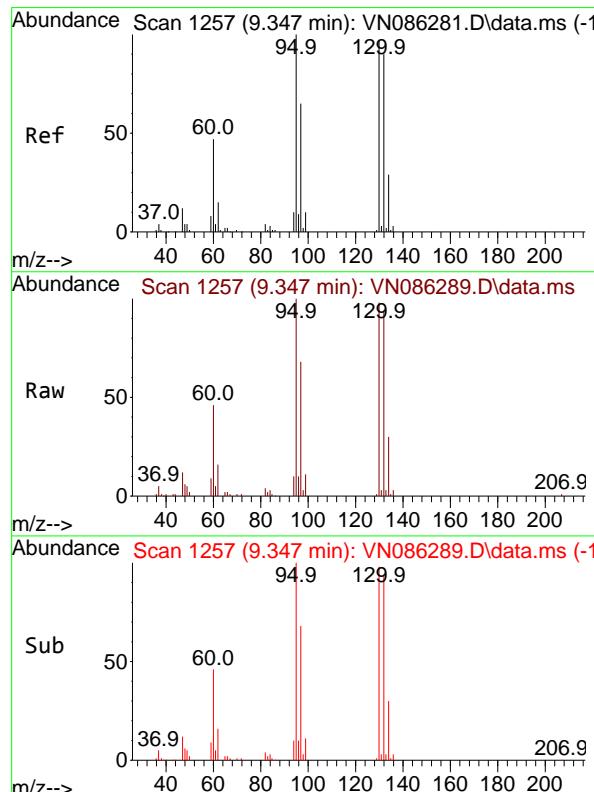
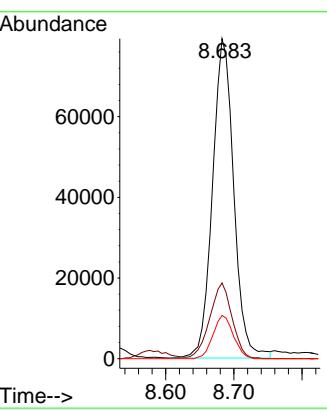
61 24.8 20.5 30.7

87 12.9 10.5 15.7

Manual Integrations**APPROVED**

Reviewed By :John Carbone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#44

Trichloroethene

Concen: 18.209 ug/l

RT: 9.347 min Scan# 1257

Delta R.T. 0.000 min

Lab File: VN086289.D

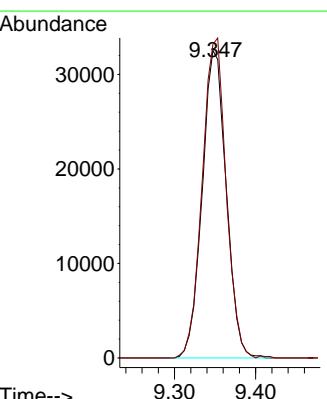
Acq: 16 Apr 2025 11:52

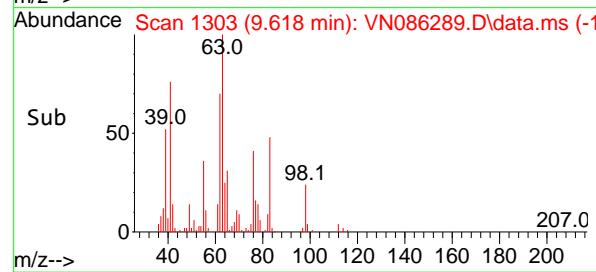
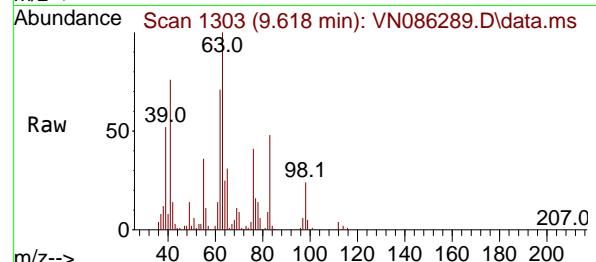
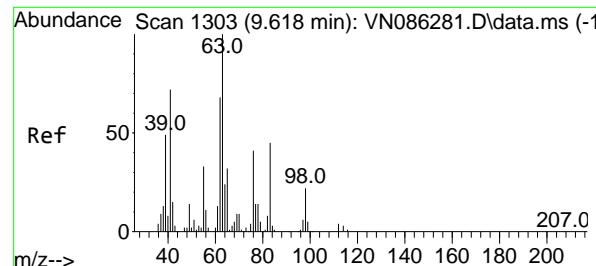
Tgt Ion:130 Resp: 66974

Ion Ratio Lower Upper

130 100

95 102.0 0.0 207.2





#45

1,2-Dichloropropane

Concen: 17.784 ug/l

RT: 9.618 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

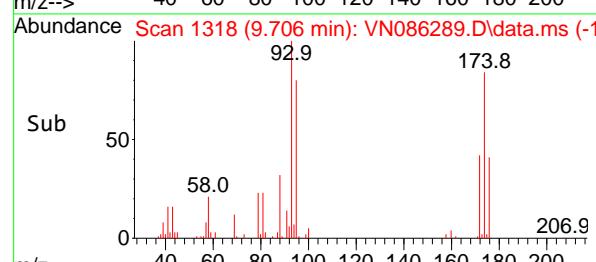
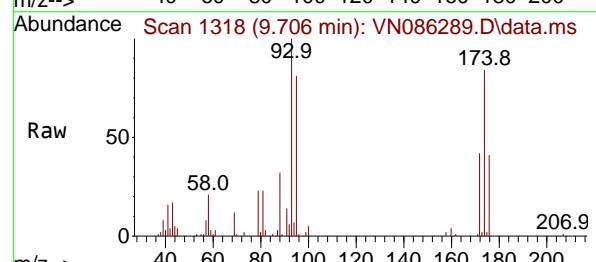
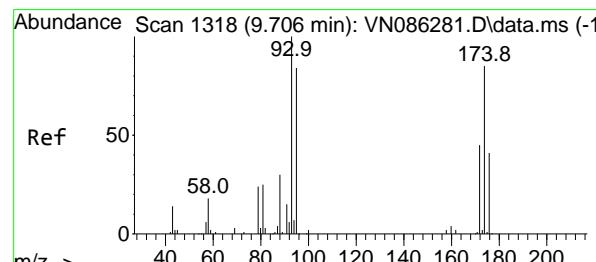
Instrument :

MSVOA_N

ClientSampleId :

VN0416WBS01

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/17/2025
 Supervised By :Mahesh Dadoda 04/17/2025


#46

Dibromomethane

Concen: 18.324 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. 0.000 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

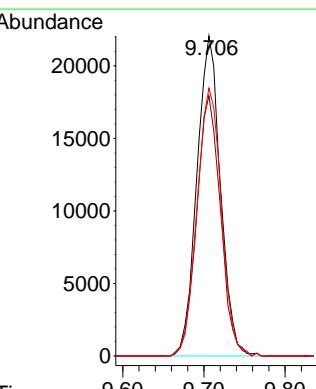
Tgt Ion: 93 Resp: 44348

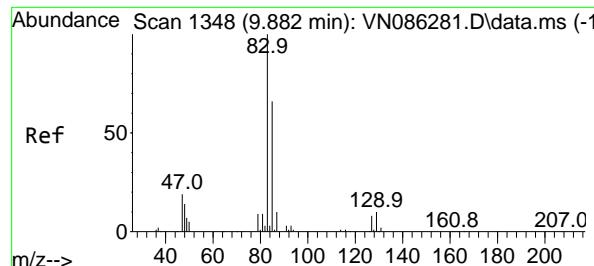
Ion Ratio Lower Upper

93 100

95 82.2 66.2 99.4

174 86.7 67.8 101.6





#47

Bromodichloromethane

Concen: 18.079 ug/l

RT: 9.883 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086289.D

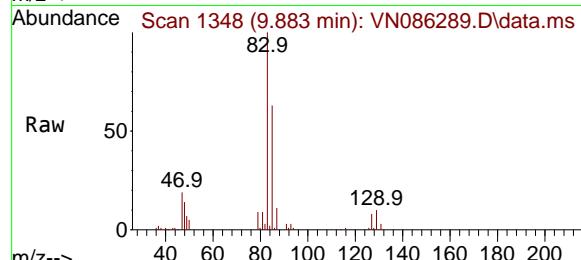
Acq: 16 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VN0416WBS01



Tgt Ion: 83 Resp: 94500

Ion Ratio Lower Upper

83 100

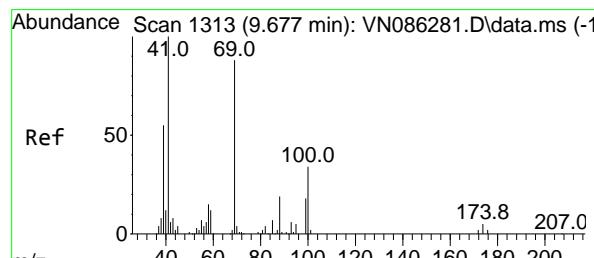
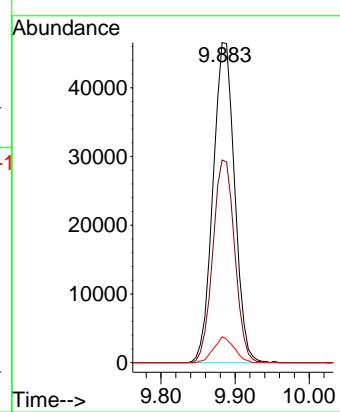
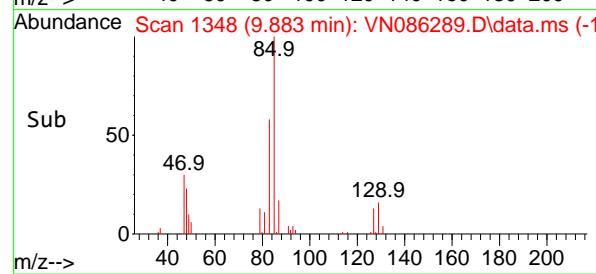
85 63.4 52.6 78.8

127 8.1 6.1 9.1

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#48

Methyl methacrylate

Concen: 17.127 ug/l

RT: 9.677 min Scan# 1313

Delta R.T. 0.000 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

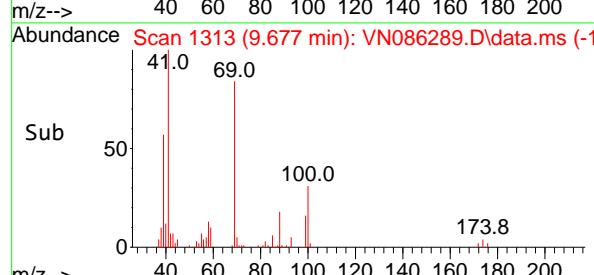
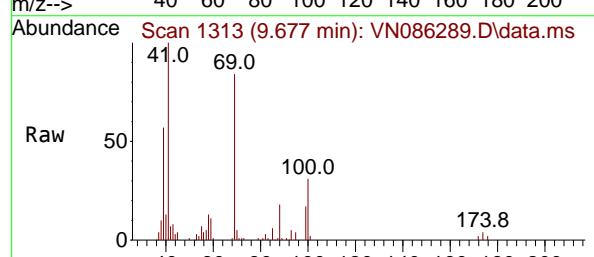
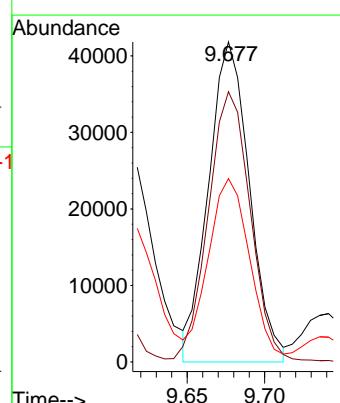
Tgt Ion: 41 Resp: 76692

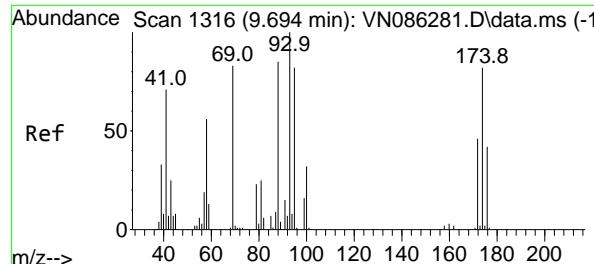
Ion Ratio Lower Upper

41 100

69 87.5 68.2 102.2

39 58.8 45.2 67.8





#49

1,4-Dioxane

Concen: 360.936 ug/l

RT: 9.694 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086289.D

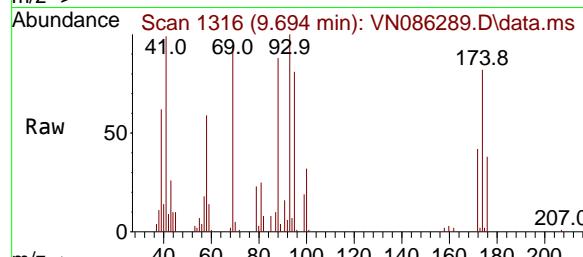
Acq: 16 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VN0416WBS01



Tgt Ion: 88 Resp: 27492

Ion Ratio Lower Upper

88 100

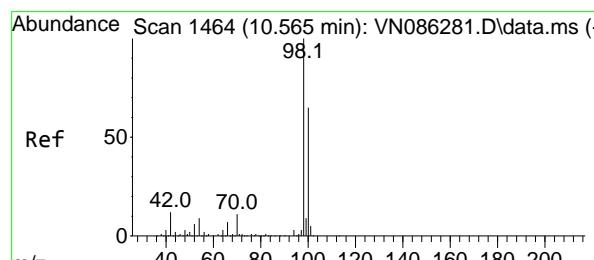
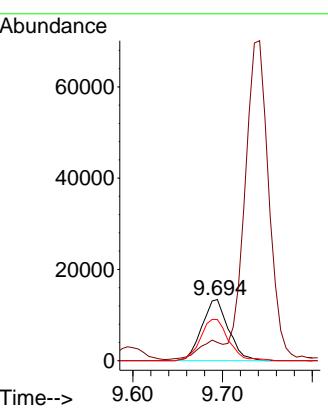
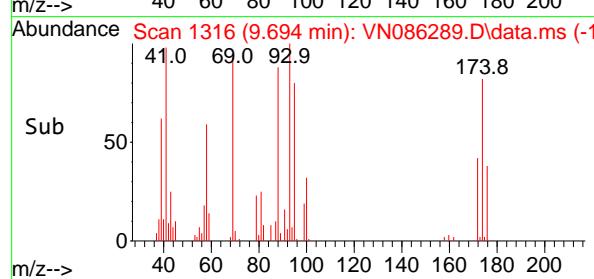
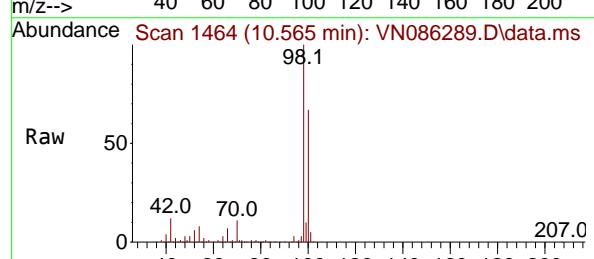
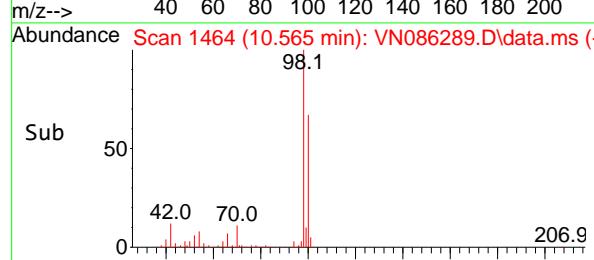
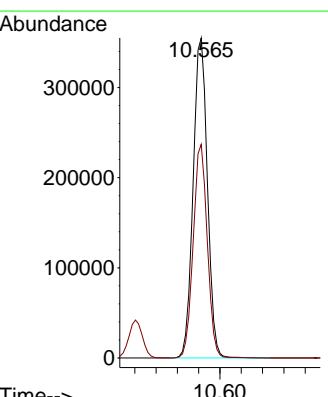
43 28.3 23.8 35.8

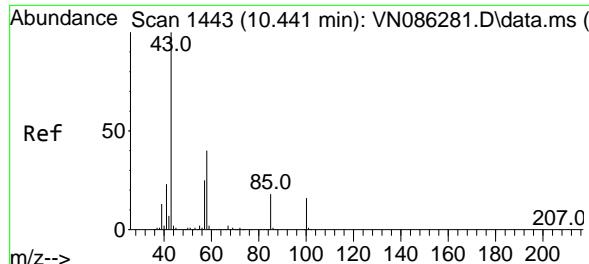
58 71.7 57.4 86.2

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/17/2025

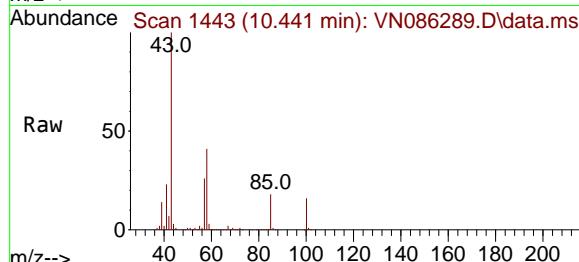
Supervised By :Mahesh Dadoda 04/17/2025

#50
Toluene-d8
Concen: 50.809 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52Tgt Ion: 98 Resp: 658487
Ion Ratio Lower Upper
98 100
100 65.9 52.5 78.7



#51
4-Methyl-2-Pentanone
Concen: 89.934 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

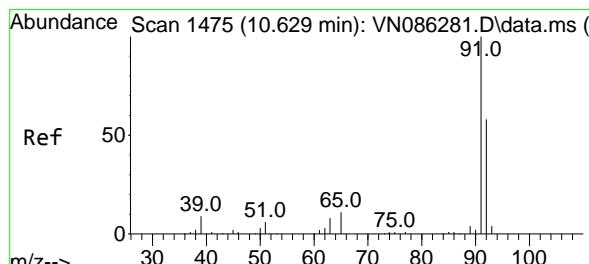
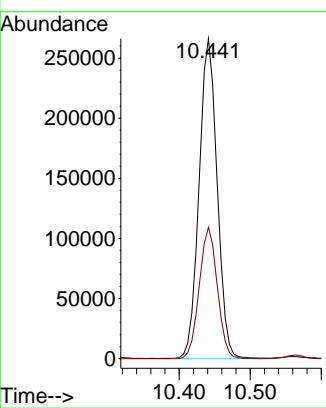
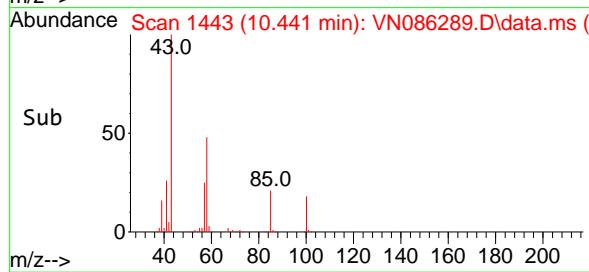
Instrument : MSVOA_N
ClientSampleId : VN0416WBS01



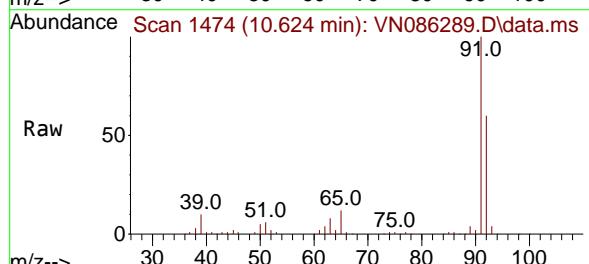
Tgt Ion: 43 Resp: 469599
Ion Ratio Lower Upper
43 100
58 41.1 32.2 48.4

Manual Integrations APPROVED

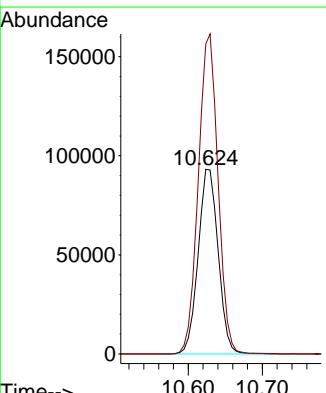
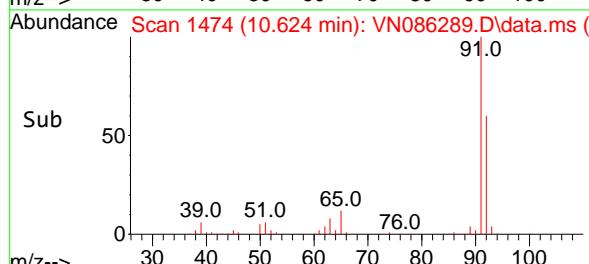
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

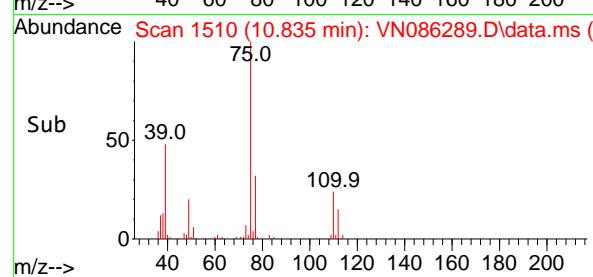
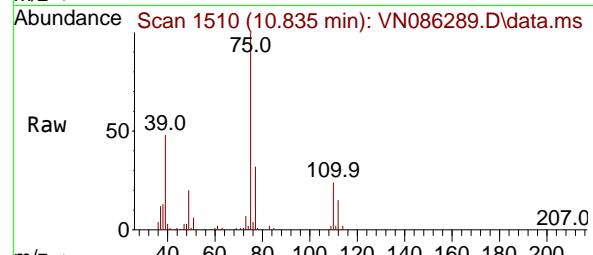
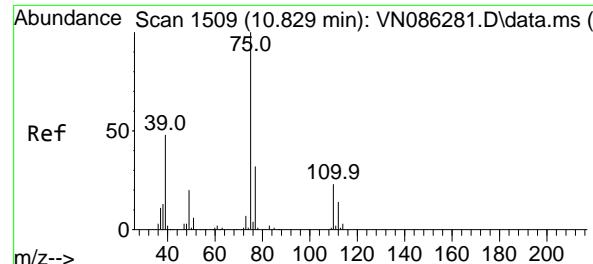


#52
Toluene
Concen: 18.029 ug/l
RT: 10.624 min Scan# 1474
Delta R.T. -0.006 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52



Tgt Ion: 92 Resp: 174573
Ion Ratio Lower Upper
92 100
91 170.9 137.3 205.9



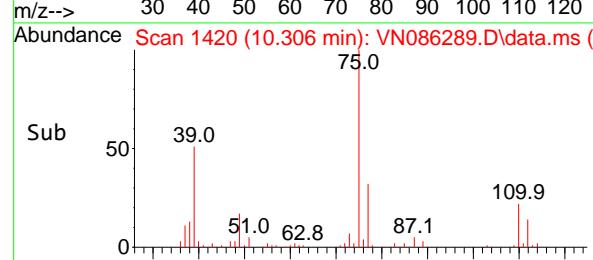
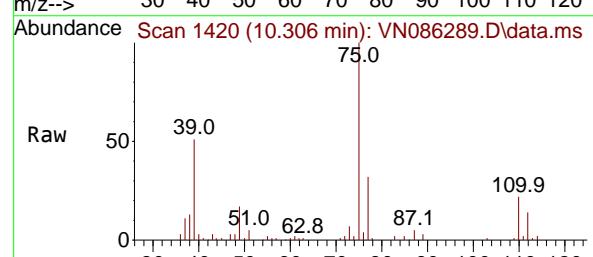
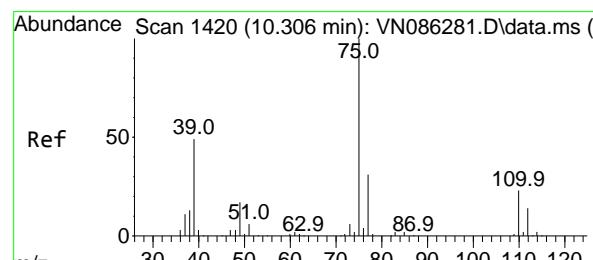
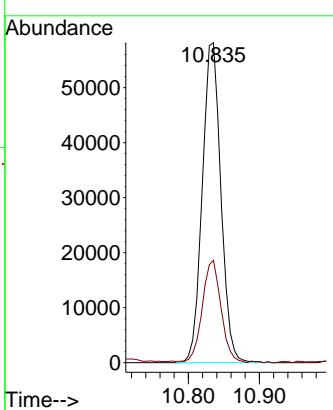


#53
t-1,3-Dichloropropene
Concen: 18.151 ug/l
RT: 10.835 min Scan# 1

Instrument : MSVOA_N
ClientSampleId : VN0416WBS01
Acq: 16 Apr 2025 11:52

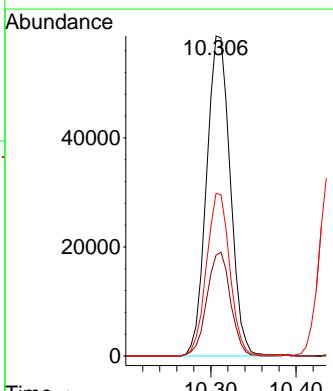
Manual Integrations APPROVED

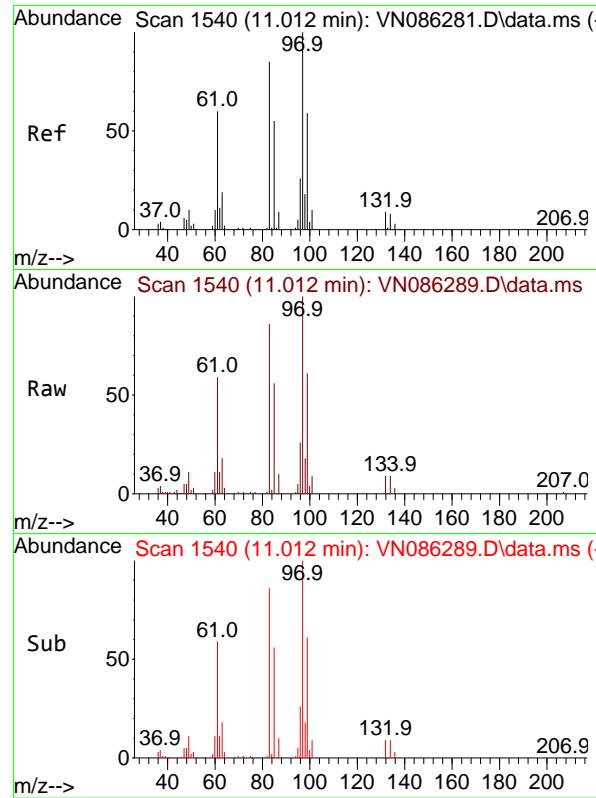
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#54
cis-1,3-Dichloropropene
Concen: 17.722 ug/l
RT: 10.306 min Scan# 1420
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

Tgt Ion: 75 Resp: 113584
Ion Ratio Lower Upper
75 100
77 31.5 25.2 37.8
39 50.9 39.3 58.9



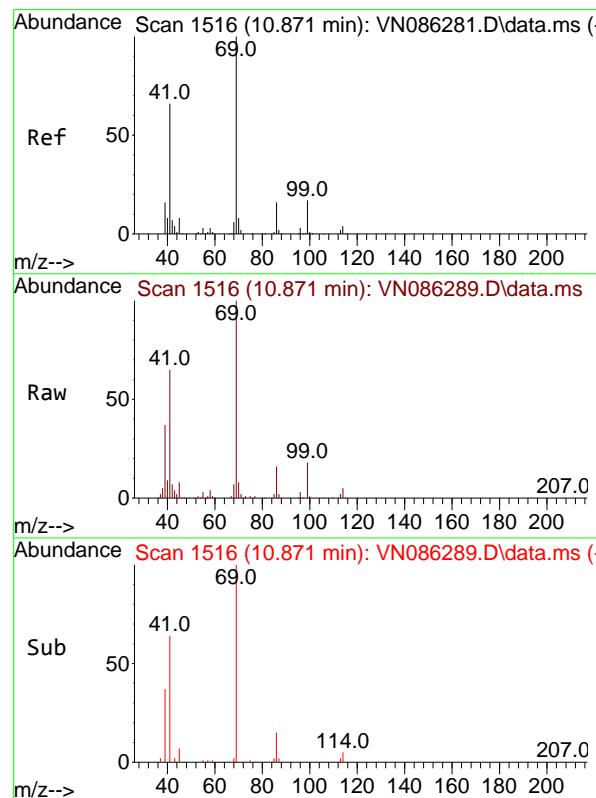
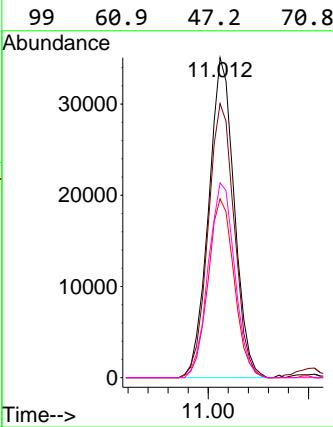


#55
1,1,2-Trichloroethane
Concen: 17.895 ug/l
RT: 11.012 min Scan# 1540
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

Instrument : MSVOA_N
ClientSampleId : VN0416WBS01

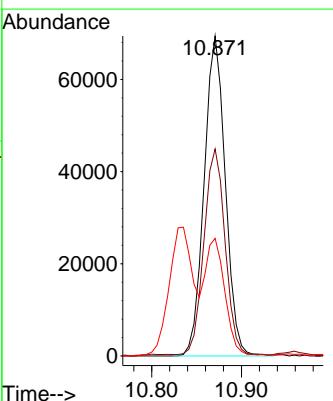
Manual Integrations APPROVED

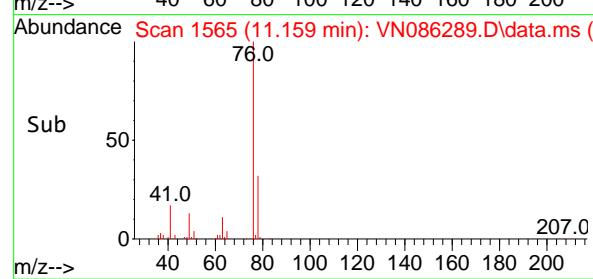
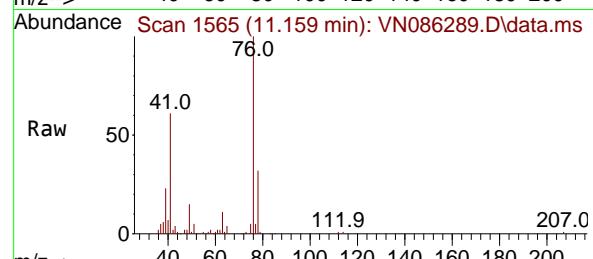
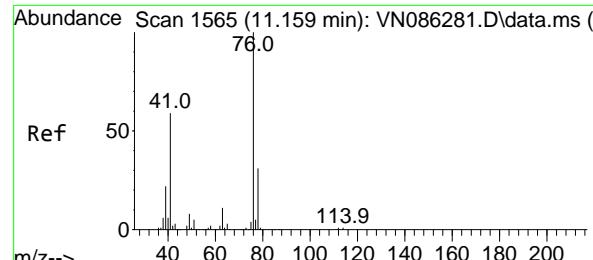
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#56
Ethyl methacrylate
Concen: 17.763 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

Tgt Ion: 69 Resp: 113753
Ion Ratio Lower Upper
69 100
41 64.4 51.7 77.5
39 33.9 26.3 39.5





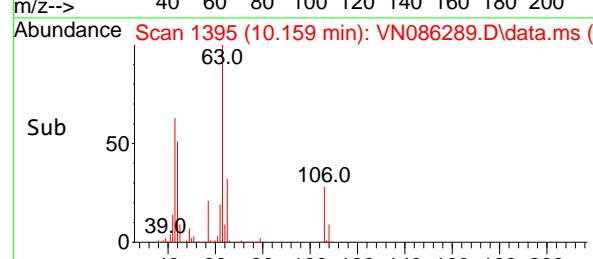
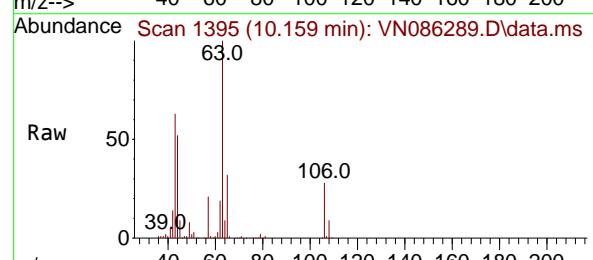
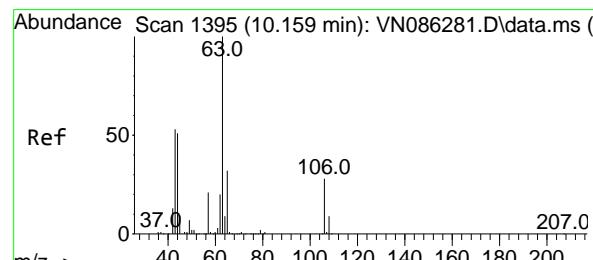
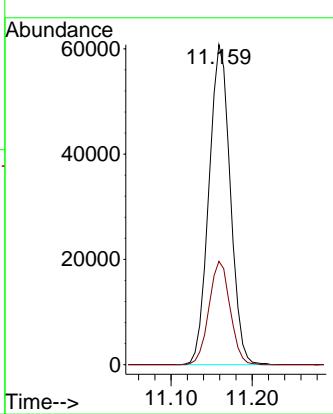
#57

1,3-Dichloropropane
Concen: 17.939 ug/l
RT: 11.159 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBS01

Manual Integrations APPROVED

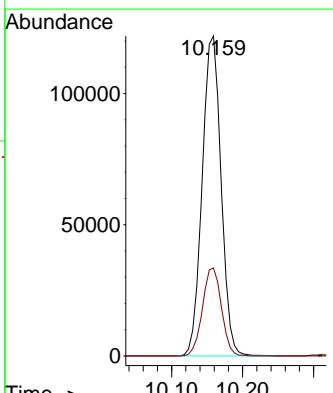
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

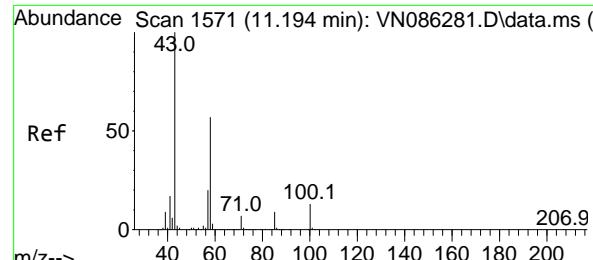


#58

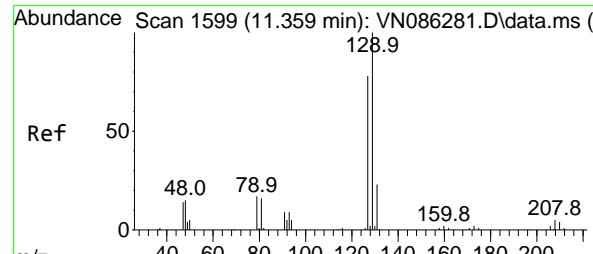
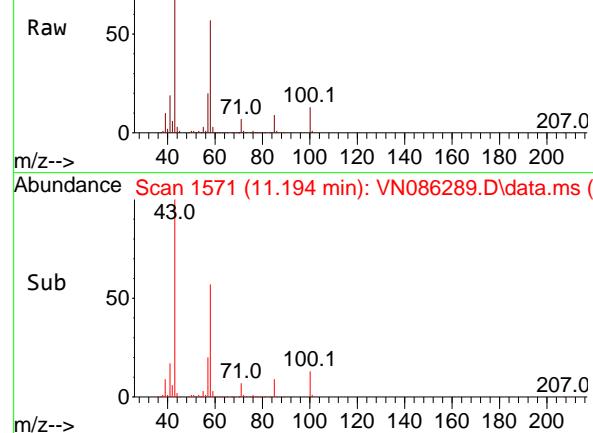
2-Chloroethyl Vinyl ether
Concen: 74.181 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

Tgt Ion: 63 Resp: 225469
Ion Ratio Lower Upper
63 100
106 27.6 22.2 33.2

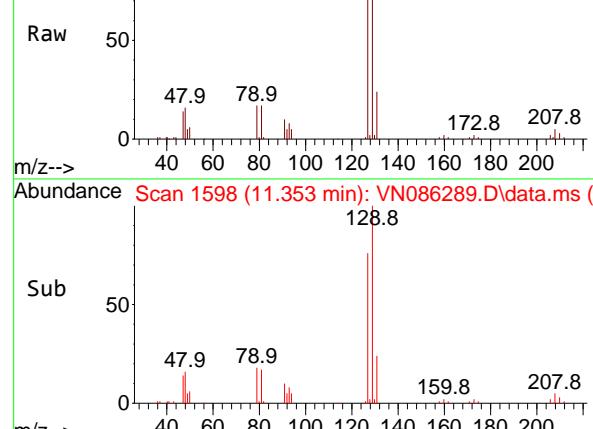




Abundance Scan 1571 (11.194 min): VN086289.D\data.ms (-)



Abundance Scan 1598 (11.353 min): VN086289.D\data.ms (-)



#59

2-Hexanone

Concen: 92.611 ug/l

RT: 11.194 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

Instrument:

MSVOA_N

ClientSampleId :

VN0416WBS01

Tgt Ion: 43 Resp: 35868

Ion Ratio Lower Upper

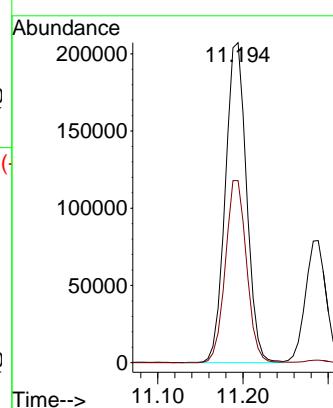
43 100

58 57.0 28.3 85.0

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#60

Dibromochloromethane

Concen: 18.045 ug/l

RT: 11.353 min Scan# 1598

Delta R.T. -0.006 min

Lab File: VN086289.D

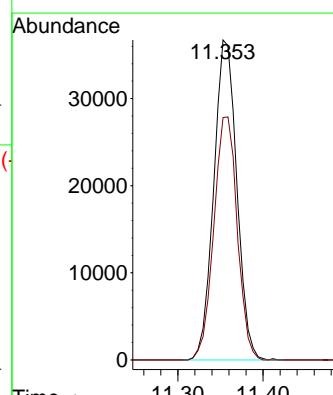
Acq: 16 Apr 2025 11:52

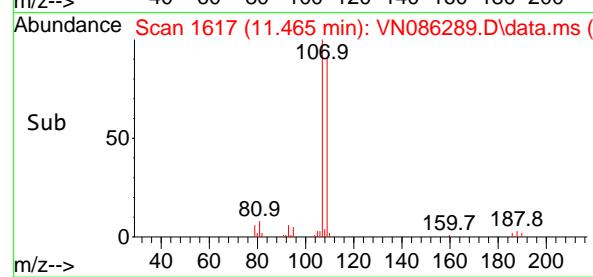
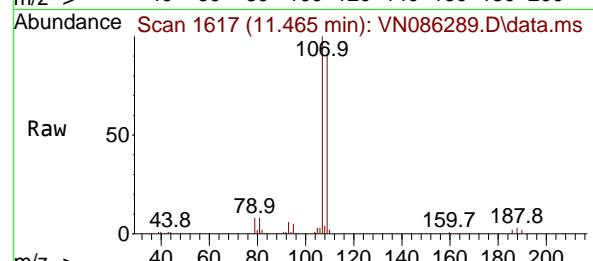
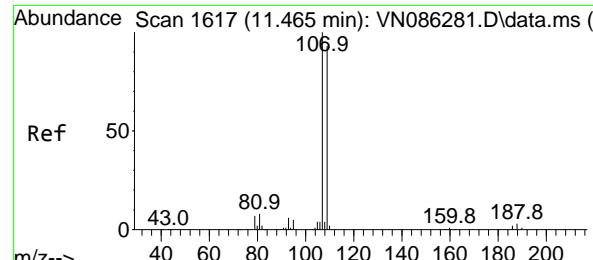
Tgt Ion:129 Resp: 69031

Ion Ratio Lower Upper

129 100

127 77.0 38.7 116.1





#61

1,2-Dibromoethane

Concen: 18.134 ug/l

RT: 11.465 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

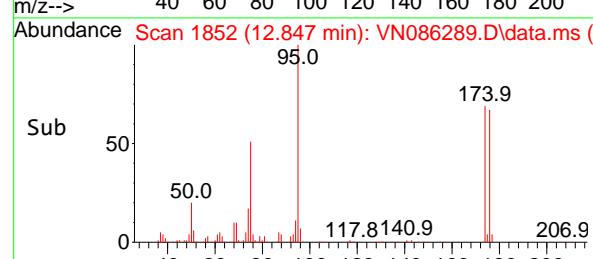
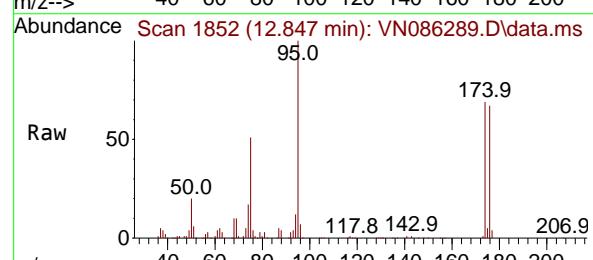
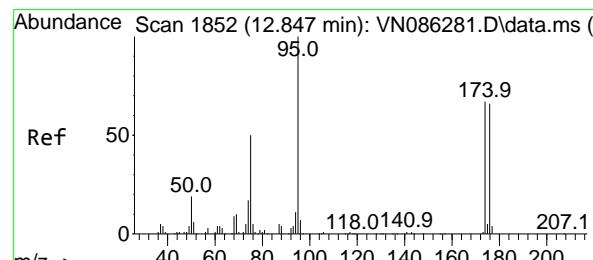
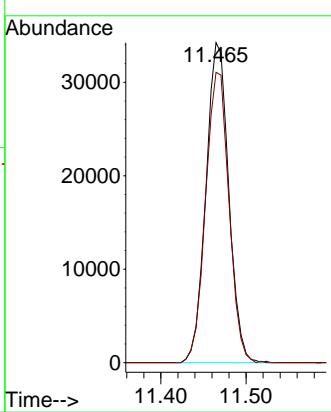
Instrument :

MSVOA_N

ClientSampleId :

VN0416WBS01

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/17/2025
 Supervised By :Mahesh Dadoda 04/17/2025


#62

4-Bromofluorobenzene

Concen: 49.777 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.000 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

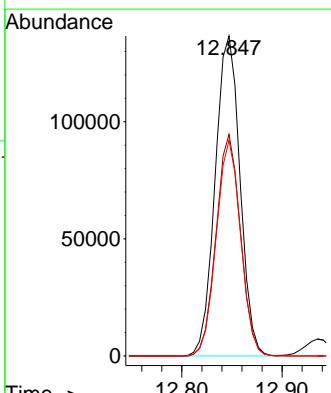
Tgt Ion: 95 Resp: 235301

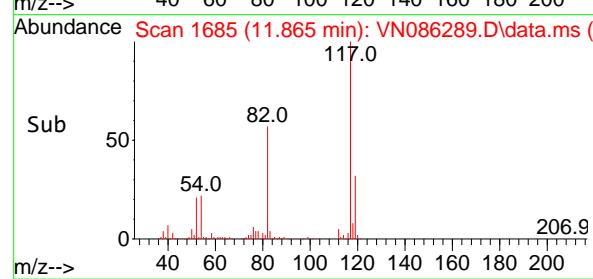
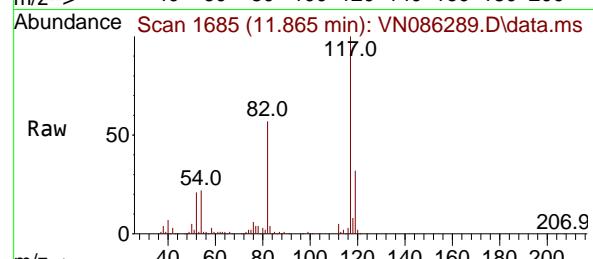
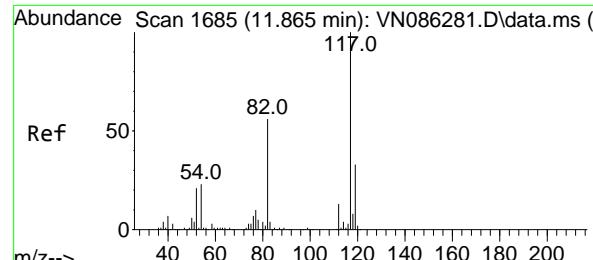
Ion Ratio Lower Upper

95 100

174 67.8 0.0 133.4

176 66.0 0.0 129.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

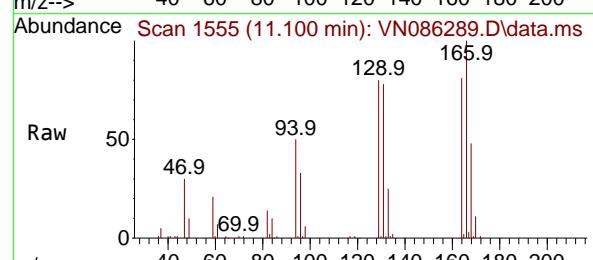
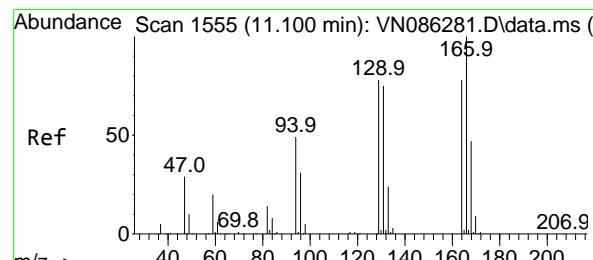
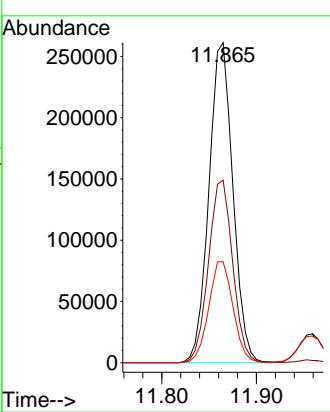
Instrument:

MSVOA_N

ClientSampleId :

VN0416WBS01

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/17/2025
 Supervised By :Mahesh Dadoda 04/17/2025


#64

Tetrachloroethene

Concen: 18.639 ug/l

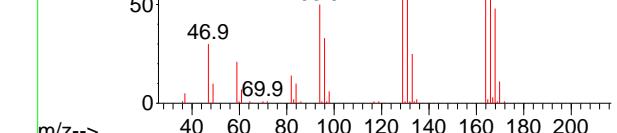
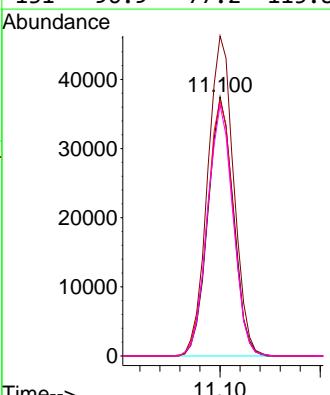
RT: 11.100 min Scan# 1555

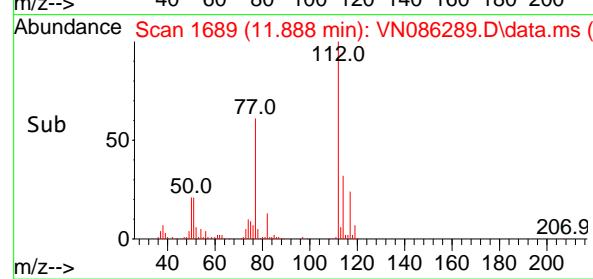
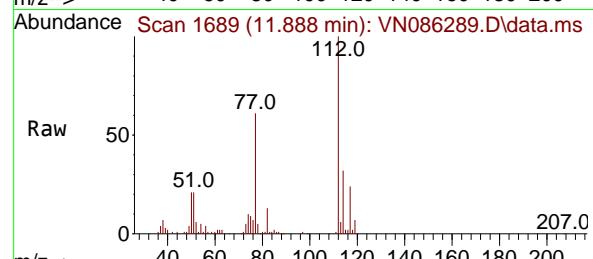
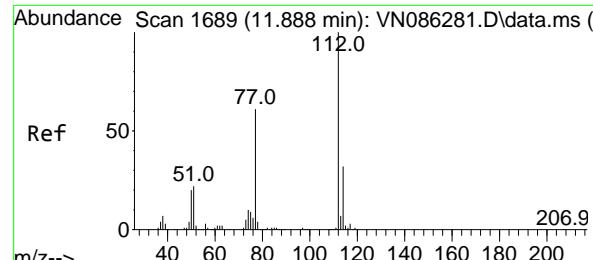
Delta R.T. 0.000 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

| Tgt | Ion | Ion Ratio | Resp: | Lower | Upper |
|-----|-------|-----------|-------|-------|-------|
| 164 | 100 | | | | |
| 166 | 123.5 | 103.0 | 65974 | 154.4 | |
| 129 | 98.7 | 80.1 | | 120.1 | |
| 131 | 96.9 | 77.2 | | 115.8 | |



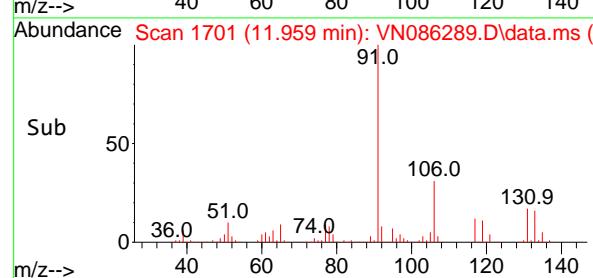
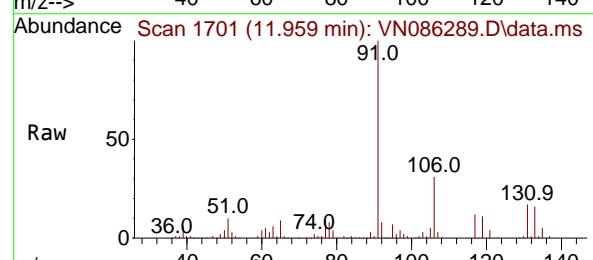
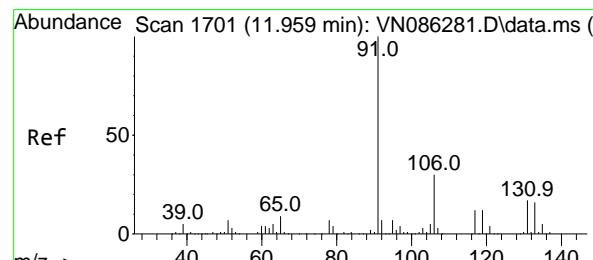
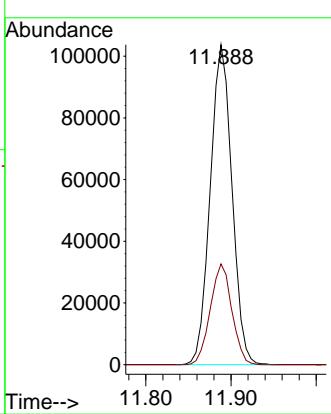


#65
Chlorobenzene
Concen: 17.923 ug/l
RT: 11.888 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBS01

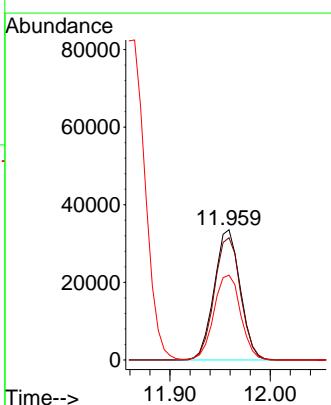
Manual Integrations APPROVED

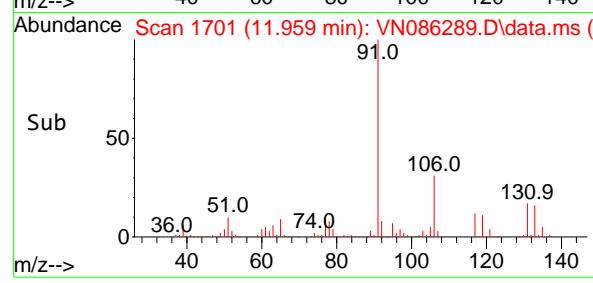
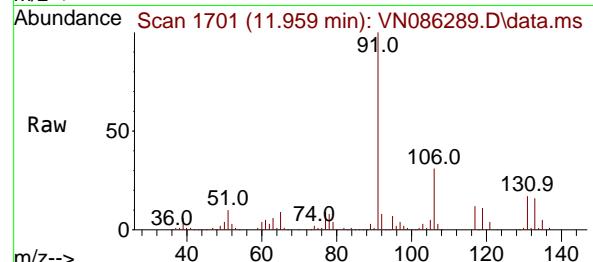
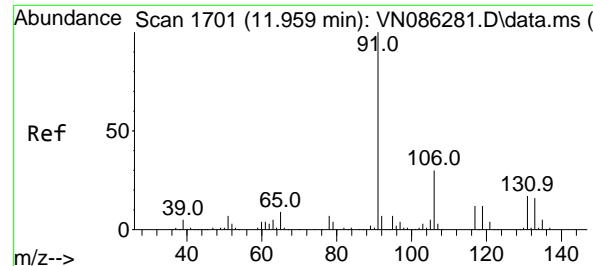
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 17.852 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

Tgt Ion:131 Resp: 60477
Ion Ratio Lower Upper
131 100
133 95.0 47.1 141.3
119 67.0 33.8 101.4





#67

Ethyl Benzene

Concen: 17.959 ug/l

RT: 11.959 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

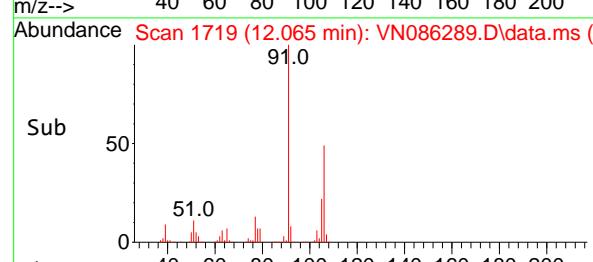
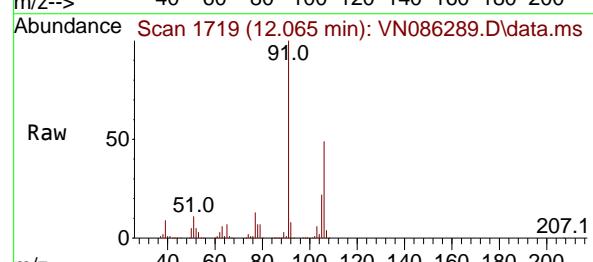
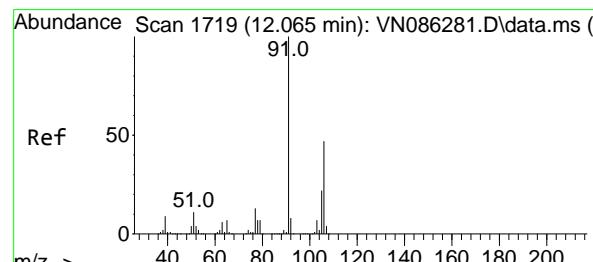
Instrument:

MSVOA_N

ClientSampleId :

VN0416WBS01

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/17/2025
 Supervised By :Mahesh Dadoda 04/17/2025


#68

m/p-Xylenes

Concen: 36.335 ug/l

RT: 12.065 min Scan# 1719

Delta R.T. 0.000 min

Lab File: VN086289.D

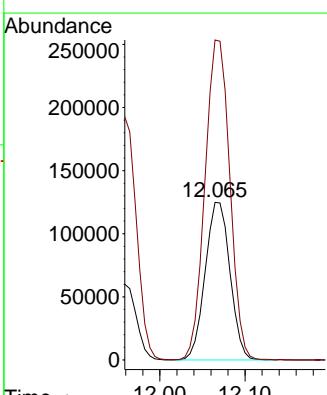
Acq: 16 Apr 2025 11:52

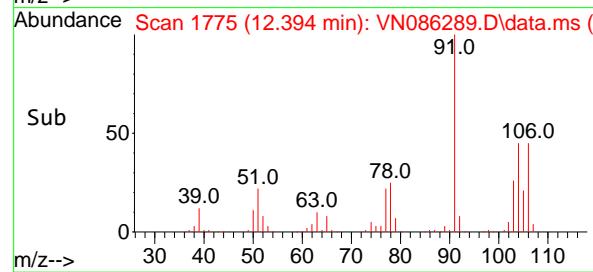
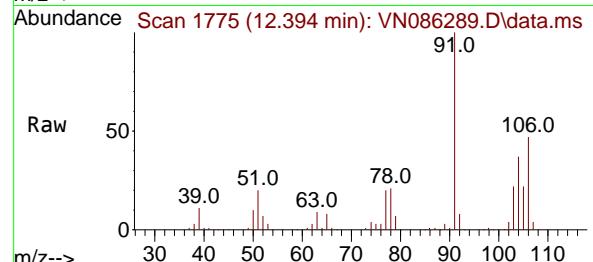
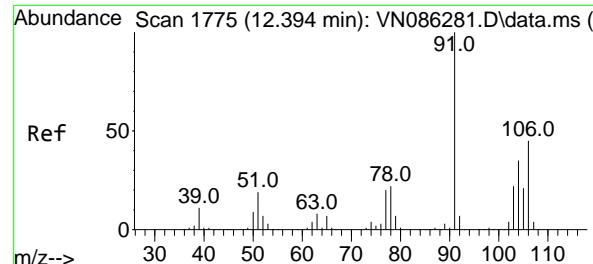
Tgt Ion:106 Resp: 252292

Ion Ratio Lower Upper

106 100

91 203.6 166.5 249.7





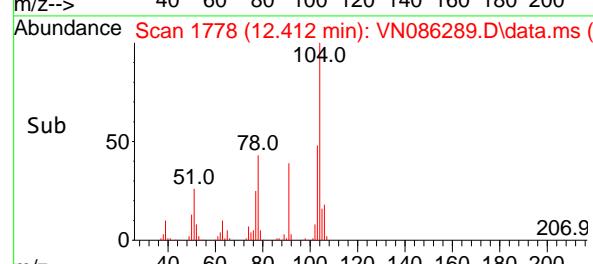
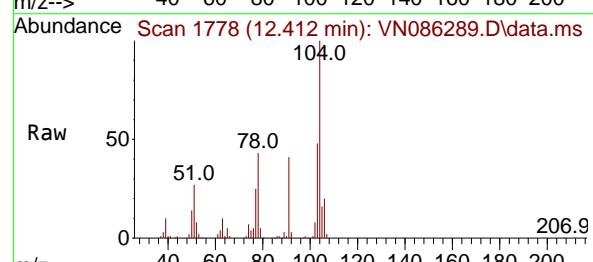
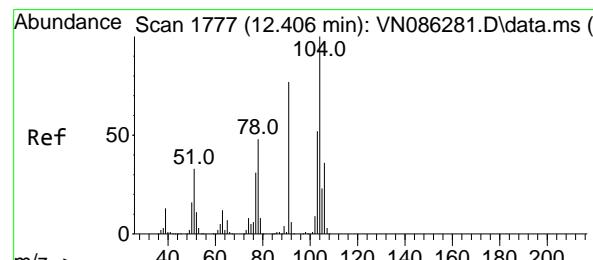
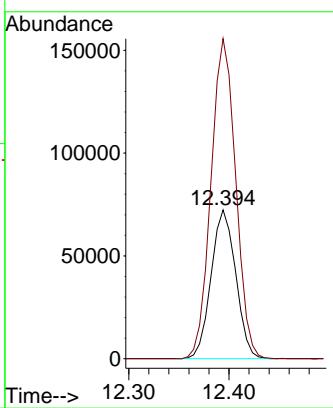
#69
o-Xylene
Concen: 17.991 ug/l
RT: 12.394 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

Instrument : MSVOA_N
ClientSampleId : VN0416WBS01

Tgt Ion:106 Resp: 123540
Ion Ratio Lower Upper
106 100
91 215.6 109.7 329.0

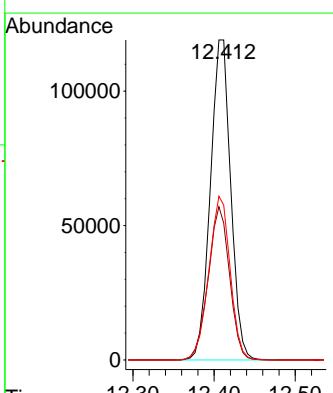
Manual Integrations APPROVED

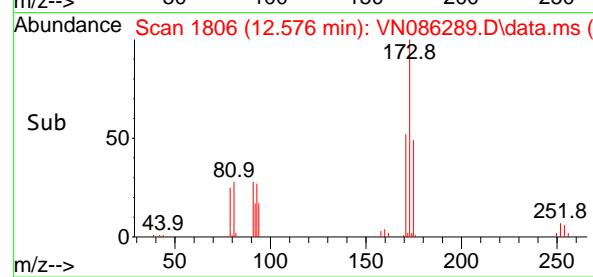
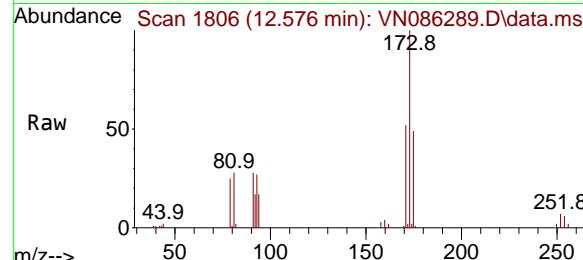
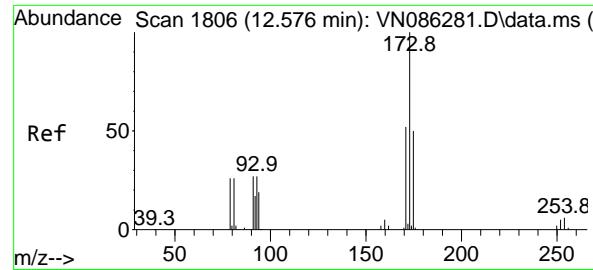
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#70
Styrene
Concen: 18.137 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.006 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

Tgt Ion:104 Resp: 207507
Ion Ratio Lower Upper
104 100
78 50.0 40.6 61.0
103 53.6 43.6 65.4





#71

Bromoform

Concen: 18.067 ug/l

RT: 12.576 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

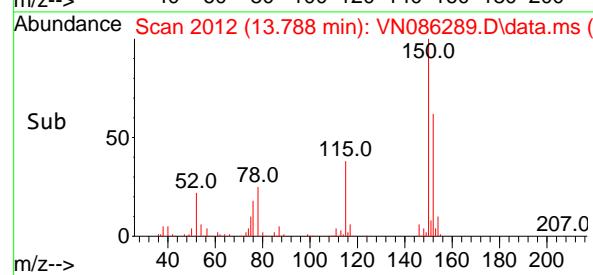
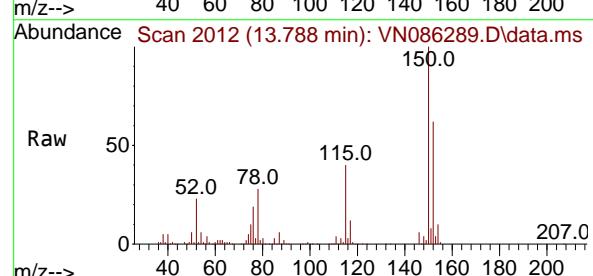
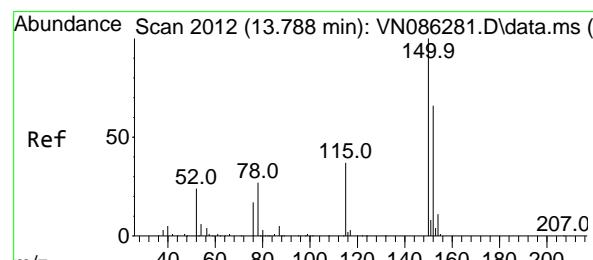
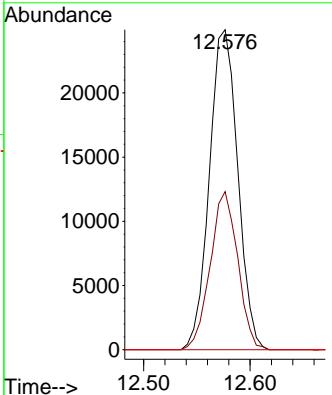
Instrument :

MSVOA_N

ClientSampleId :

VN0416WBS01

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/17/2025
 Supervised By :Mahesh Dadoda 04/17/2025


#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. 0.000 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

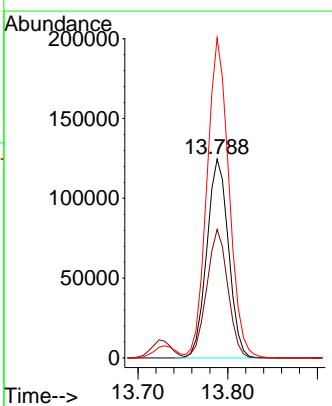
Tgt Ion:152 Resp: 208645

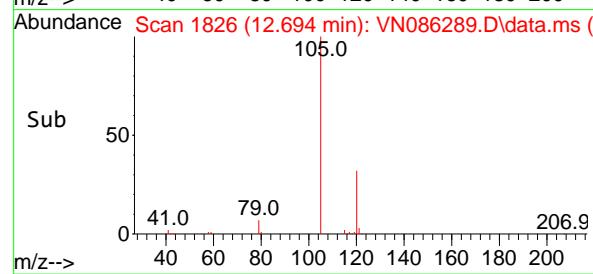
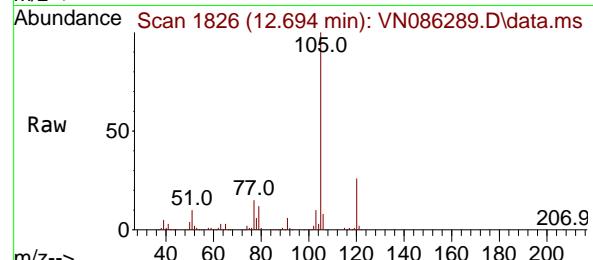
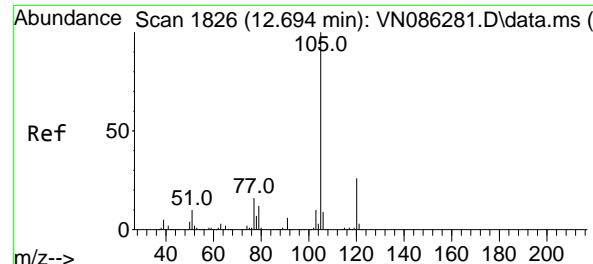
Ion Ratio Lower Upper

152 100

115 63.0 31.9 95.9

150 163.6 0.0 352.0





#73

Isopropylbenzene

Concen: 17.829 ug/l

RT: 12.694 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

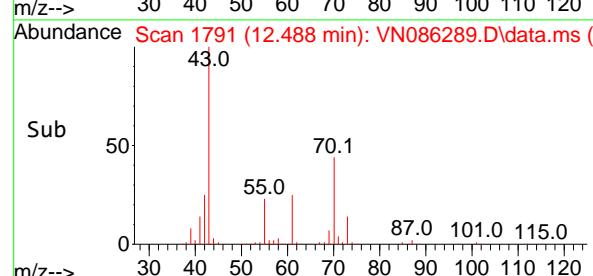
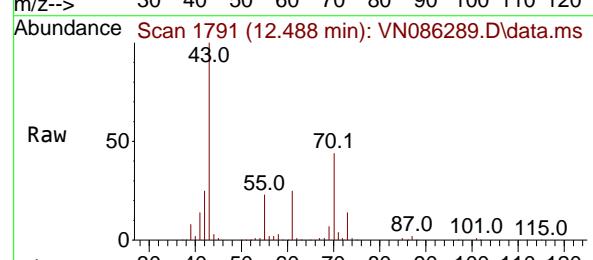
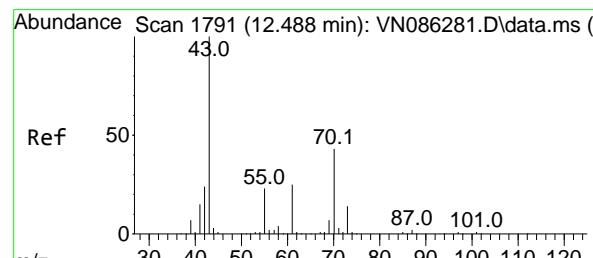
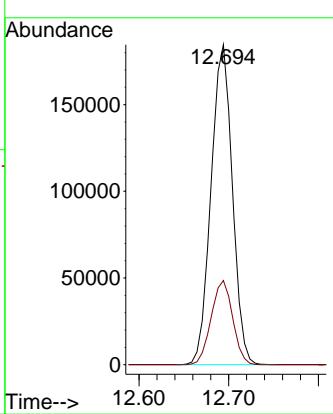
Instrument :

MSVOA_N

ClientSampleId :

VN0416WBS01

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/17/2025
 Supervised By :Mahesh Dadoda 04/17/2025


#74

N-amyl acetate

Concen: 16.378 ug/l

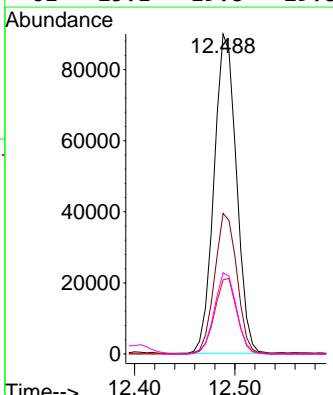
RT: 12.488 min Scan# 1791

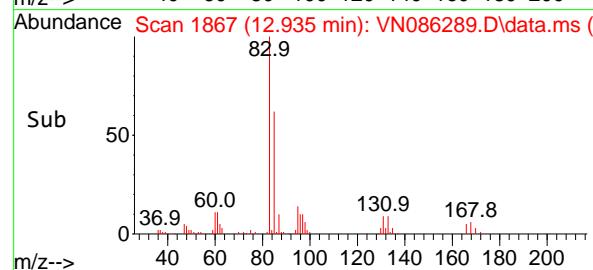
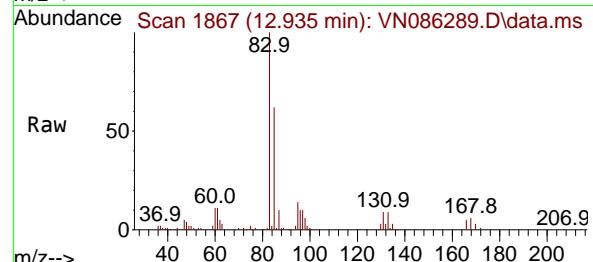
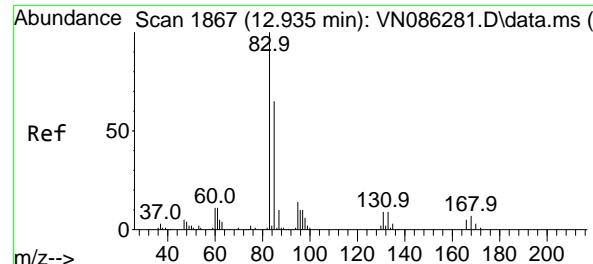
Delta R.T. 0.000 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

| Tgt | Ion: | Resp: | 139157 |
|-----|-------|-------|--------|
| Ion | Ratio | Lower | Upper |
| 43 | 100 | | |
| 70 | 44.0 | 35.0 | 52.4 |
| 55 | 23.8 | 19.0 | 28.4 |
| 61 | 25.1 | 19.8 | 29.8 |



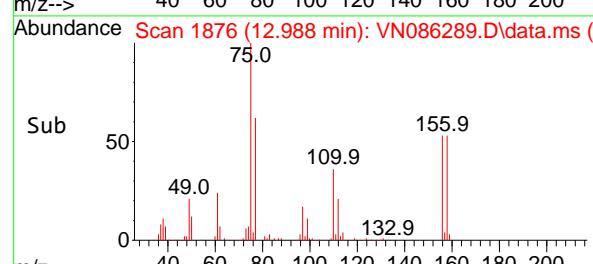
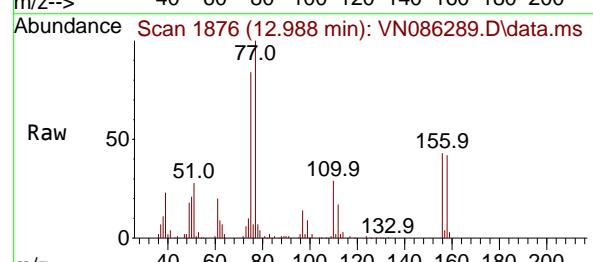
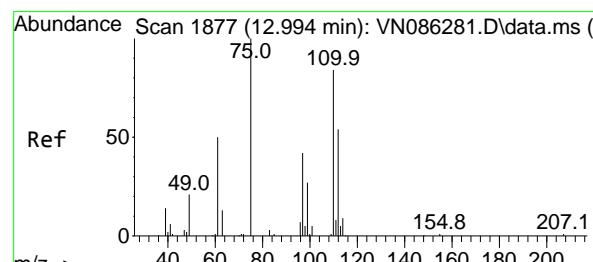
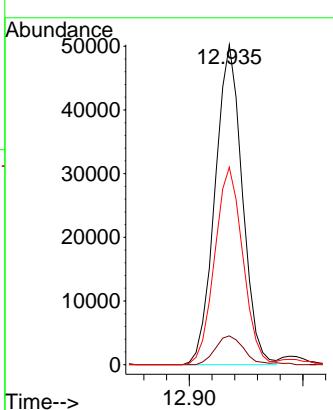


#75
1,1,2,2-Tetrachloroethane
Concen: 17.086 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

Instrument : MSVOA_N
ClientSampleId : VN0416WBS01

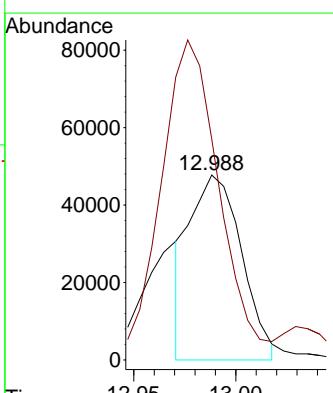
Manual Integrations APPROVED

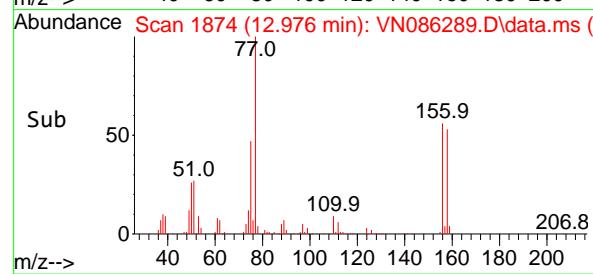
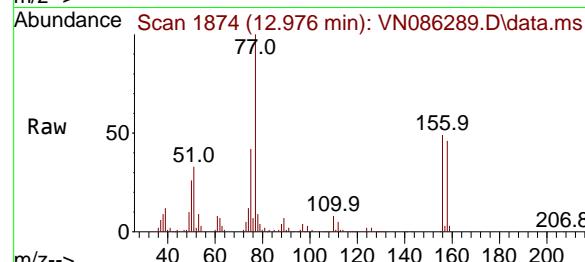
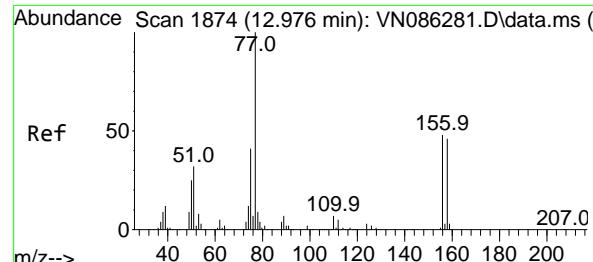
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#76
1,2,3-Trichloropropane
Concen: 17.073 ug/l
RT: 12.988 min Scan# 1876
Delta R.T. -0.006 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

Tgt Ion: 75 Resp: 84064
Ion Ratio Lower Upper
75 100
77 195.7 98.8 296.4





#77

Bromobenzene

Concen: 17.946 ug/l

RT: 12.976 min Scan# 1874

Delta R.T. 0.000 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

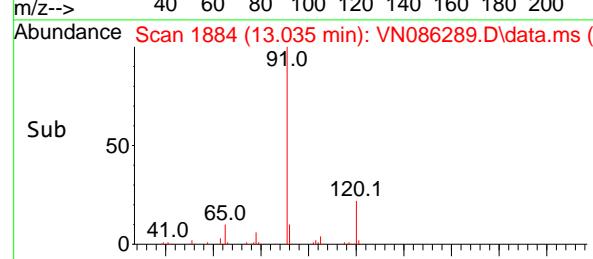
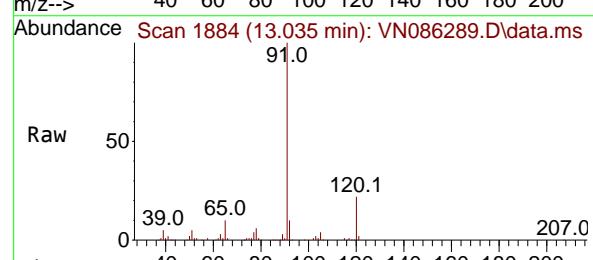
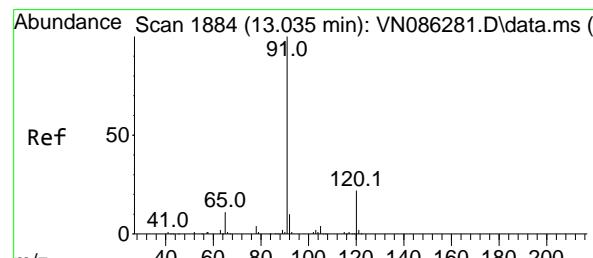
Instrument :

MSVOA_N

ClientSampleId :

VN0416WBS01

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/17/2025
 Supervised By :Mahesh Dadoda 04/17/2025


#78

n-propylbenzene

Concen: 18.018 ug/l

RT: 13.035 min Scan# 1884

Delta R.T. 0.000 min

Lab File: VN086289.D

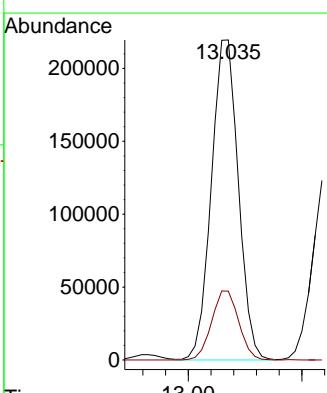
Acq: 16 Apr 2025 11:52

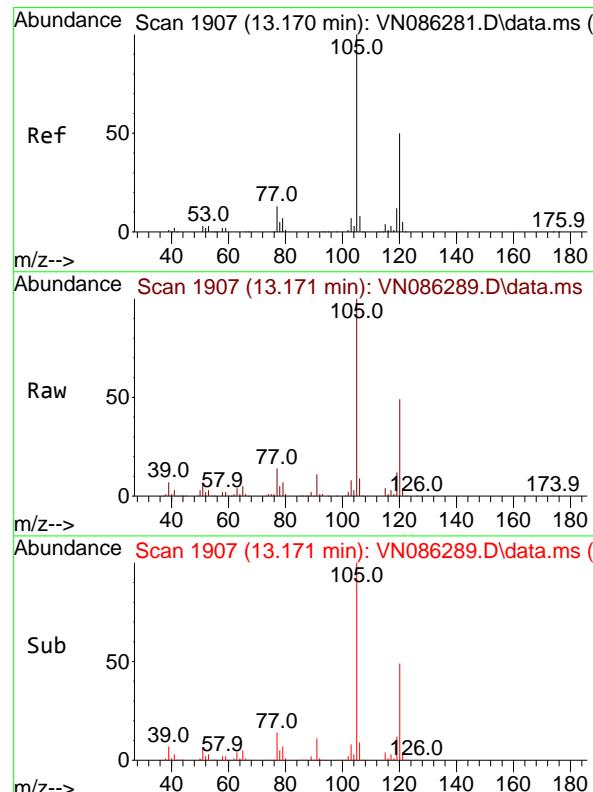
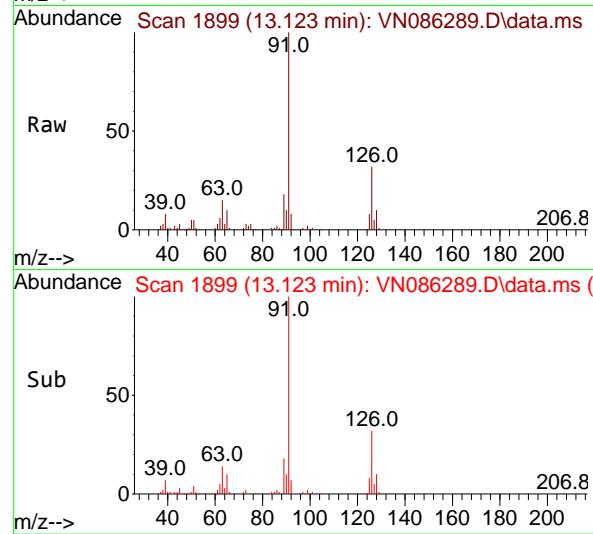
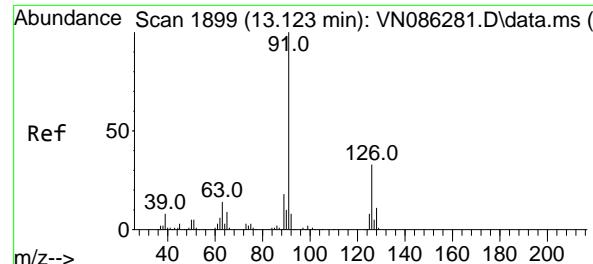
Tgt Ion: 91 Resp: 362369

Ion Ratio Lower Upper

91 100

120 21.6 11.1 33.3





#79

2-Chlorotoluene

Concen: 17.790 ug/l

RT: 13.123 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

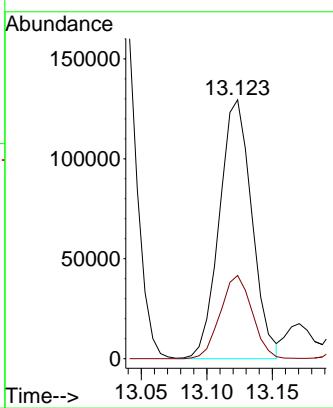
Instrument :

MSVOA_N

ClientSampleId :

VN0416WBS01

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/17/2025
 Supervised By :Mahesh Dadoda 04/17/2025


#80

1,3,5-Trimethylbenzene

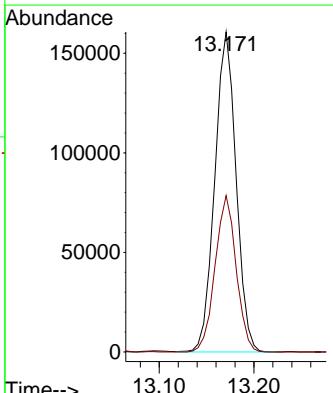
Concen: 17.981 ug/l

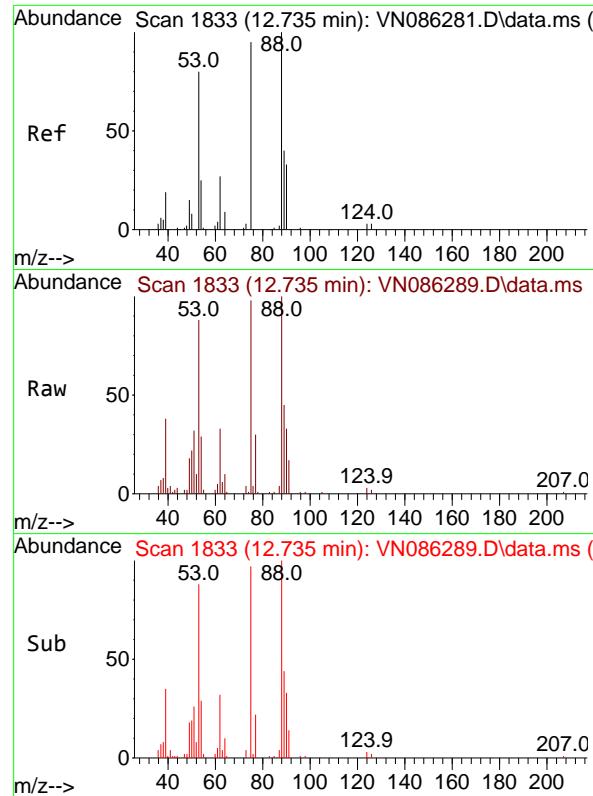
RT: 13.171 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

 Tgt Ion:105 Resp: 251187
 Ion Ratio Lower Upper
 105 100
 120 48.3 24.5 73.5


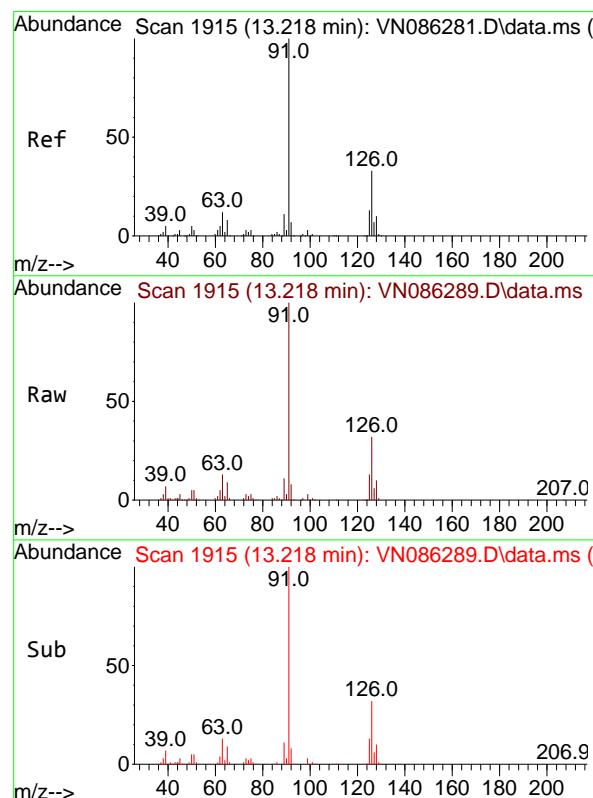
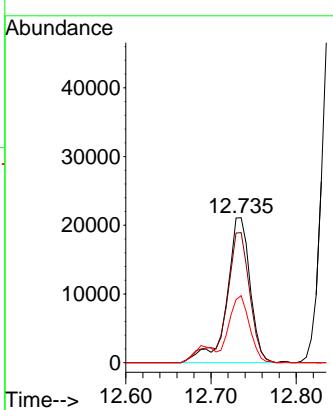


#81
trans-1,4-Dichloro-2-butene
Concen: 19.443 ug/l
RT: 12.735 min Scan# 1

Instrument : MSVOA_N
ClientSampleId : VN0416WBS01
Acq: 16 Apr 2025 11:52

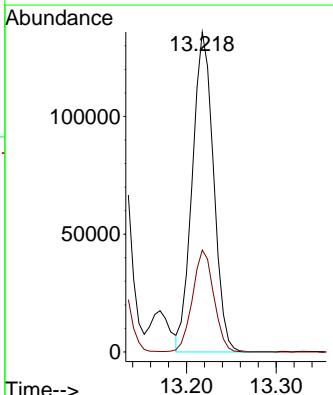
Manual Integrations APPROVED

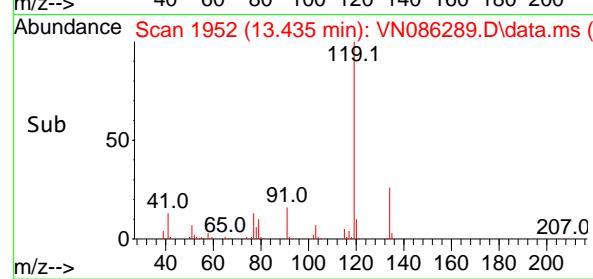
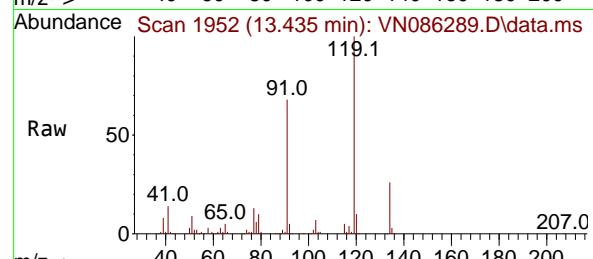
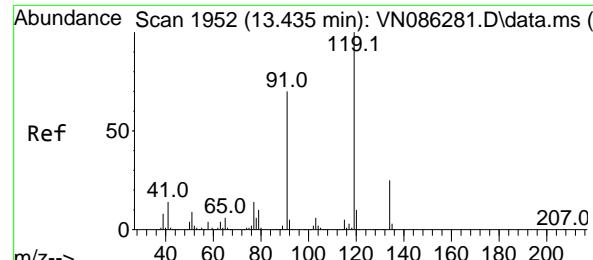
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#82
4-Chlorotoluene
Concen: 17.831 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

Tgt Ion: 91 Resp: 222909
Ion Ratio Lower Upper
91 100
126 32.0 16.2 48.6





#83

tert-Butylbenzene

Concen: 18.186 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. 0.000 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

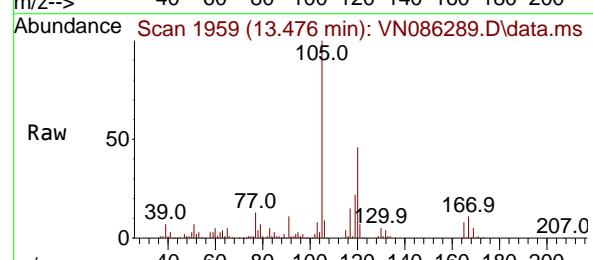
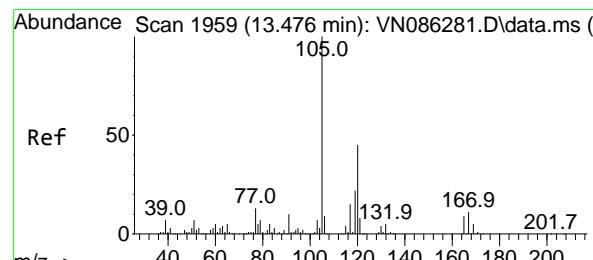
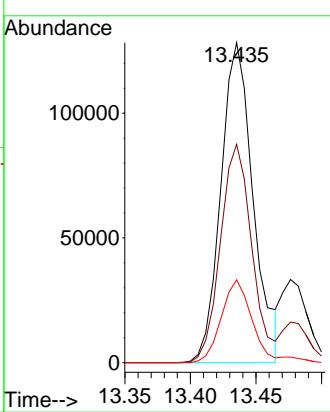
Instrument :

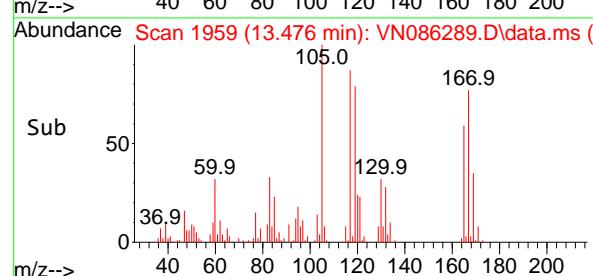
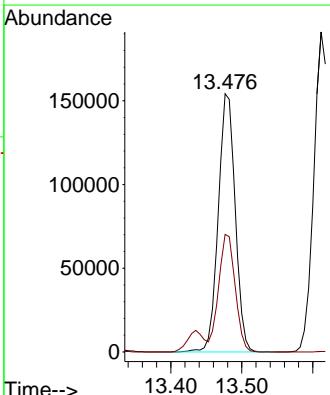
MSVOA_N

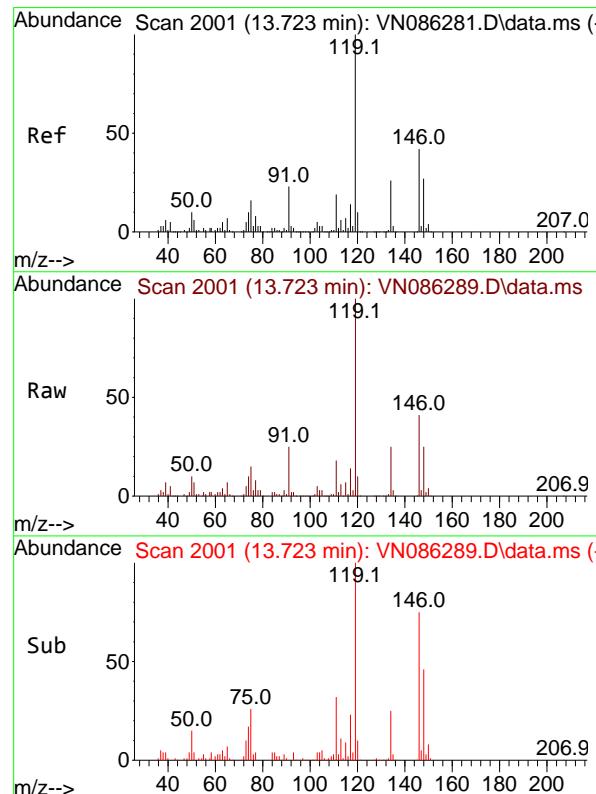
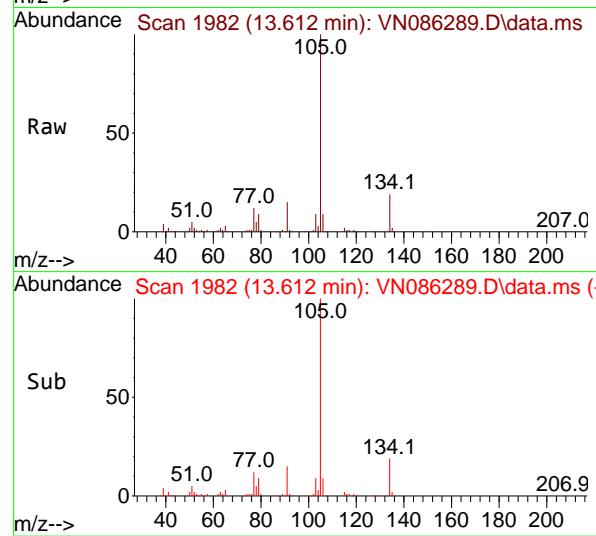
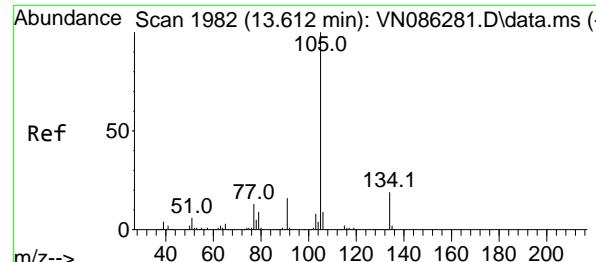
ClientSampleId :

VN0416WBS01

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/17/2025
 Supervised By :Mahesh Dadoda 04/17/2025

 #84
 1,2,4-Trimethylbenzene
 Concen: 17.909 ug/l
 RT: 13.476 min Scan# 1959
 Delta R.T. 0.000 min
 Lab File: VN086289.D
 Acq: 16 Apr 2025 11:52

 Tgt Ion:105 Resp: 254651
 Ion Ratio Lower Upper
 105 100
 120 44.5 22.4 67.3




#85

sec-Butylbenzene

Concen: 18.159 ug/l

RT: 13.612 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086289.D

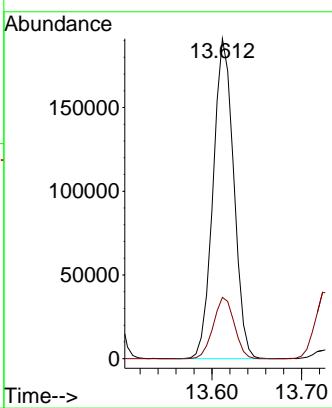
Acq: 16 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VN0416WBS01

**Manual Integrations
APPROVED**
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

#86

p-Isopropyltoluene

Concen: 18.177 ug/l

RT: 13.723 min Scan# 2001

Delta R.T. 0.000 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

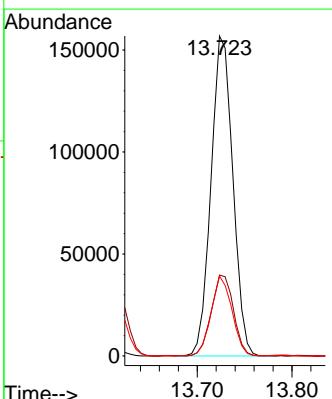
Tgt Ion:119 Resp: 251538

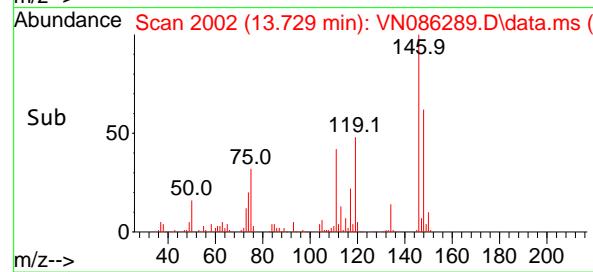
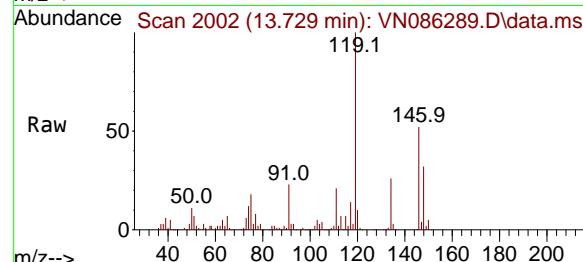
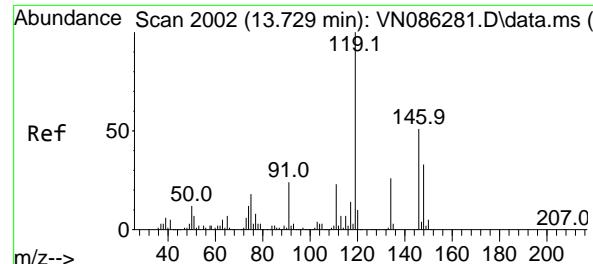
Ion Ratio Lower Upper

119 100

134 25.7 13.1 39.1

91 23.8 11.9 35.9





#87

1,3-Dichlorobenzene

Concen: 17.998 ug/l

RT: 13.729 min Scan# 2

Delta R.T. 0.000 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

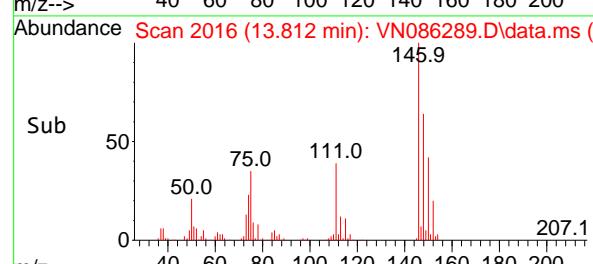
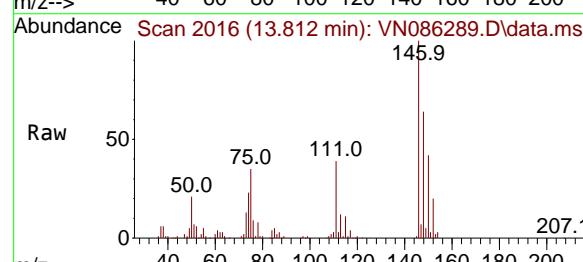
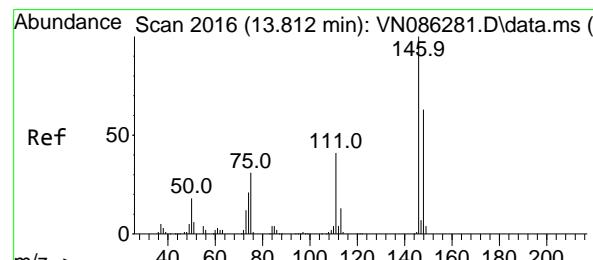
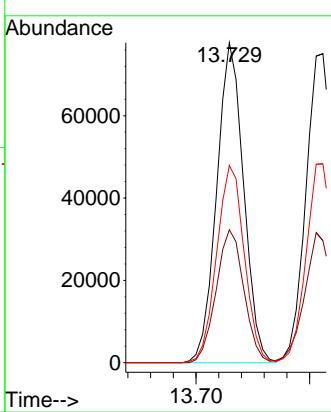
Instrument :

MSVOA_N

ClientSampleId :

VN0416WBS01

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/17/2025
 Supervised By :Mahesh Dadoda 04/17/2025


#88

1,4-Dichlorobenzene

Concen: 17.933 ug/l

RT: 13.812 min Scan# 2016

Delta R.T. 0.000 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

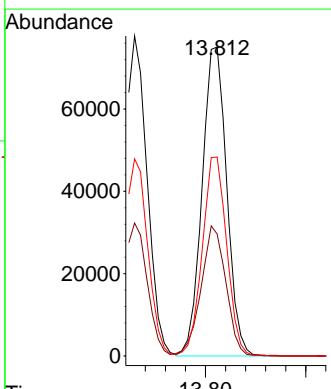
Tgt Ion:146 Resp: 128408

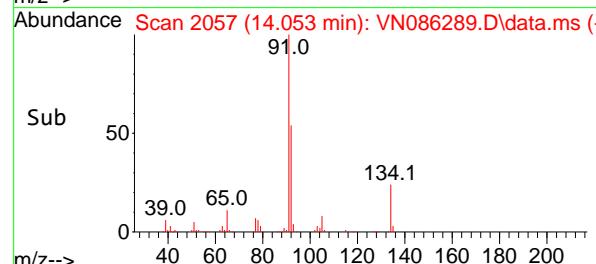
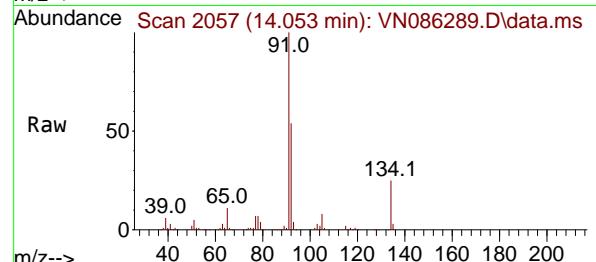
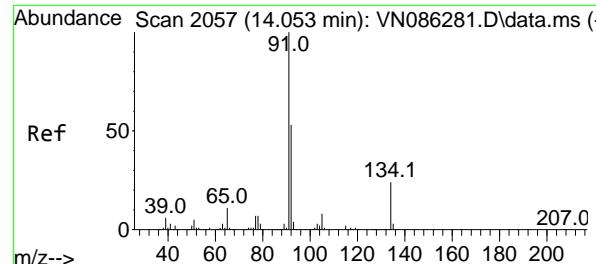
Ion Ratio Lower Upper

146 100

111 42.5 21.3 63.9

148 63.8 31.9 95.9





#89

n-Butylbenzene

Concen: 18.579 ug/l

RT: 14.053 min Scan# 2

Instrument :

MSVOA_N

Delta R.T. 0.000 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

ClientSampleId :

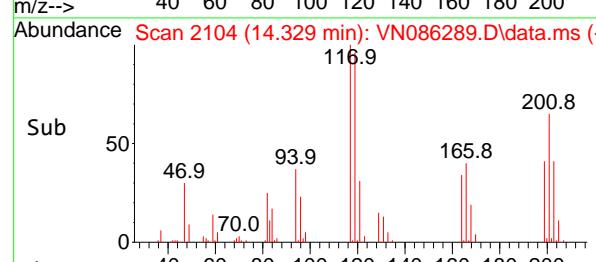
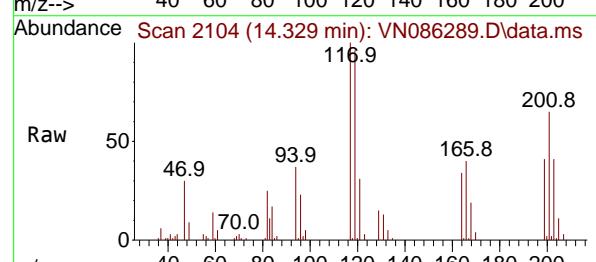
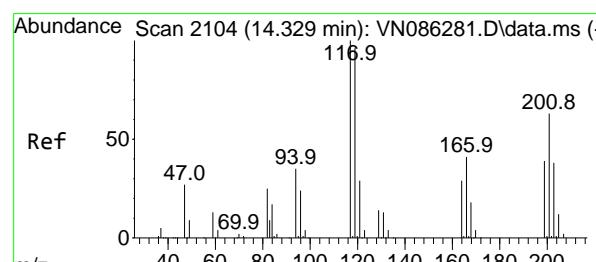
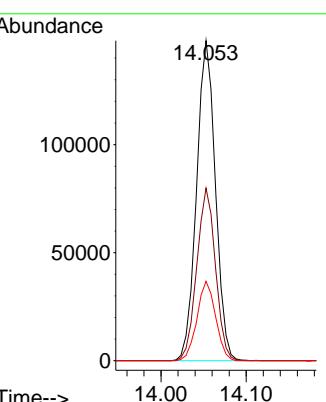
VN0416WBS01

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025

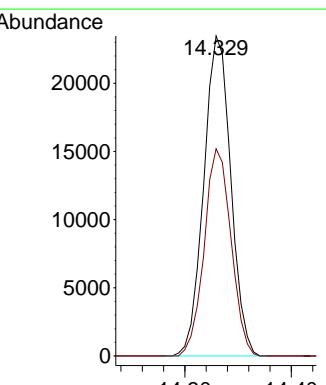
Manual Integrations**APPROVED**

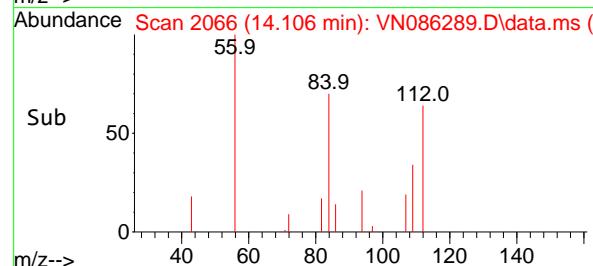
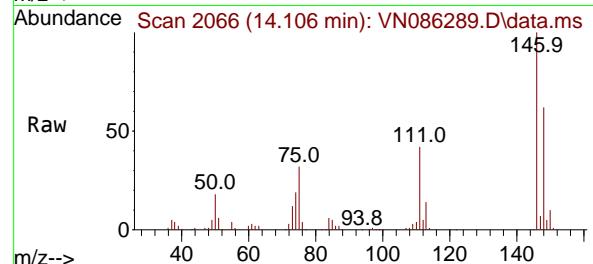
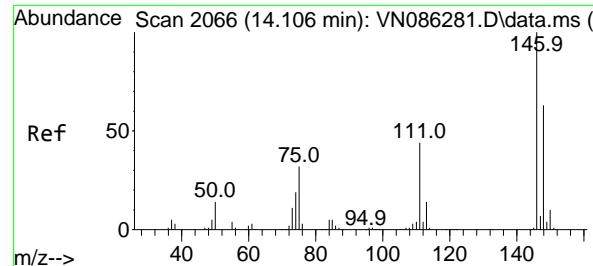
| Tgt | Ion: | 91 | Resp: | 22789 |
|-----|-------|-------|-------|-------|
| Ion | Ratio | Lower | Upper | |
| 91 | 100 | | | |
| 92 | 53.4 | 26.8 | 80.4 | |
| 134 | 24.6 | 12.2 | 36.6 | |



#90
Hexachloroethane
Concen: 17.753 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

| Tgt | Ion: | 117 | Resp: | 41324 |
|-----|-------|-------|-------|-------|
| Ion | Ratio | Lower | Upper | |
| 117 | 100 | | | |
| 201 | 64.1 | 31.4 | 94.2 | |



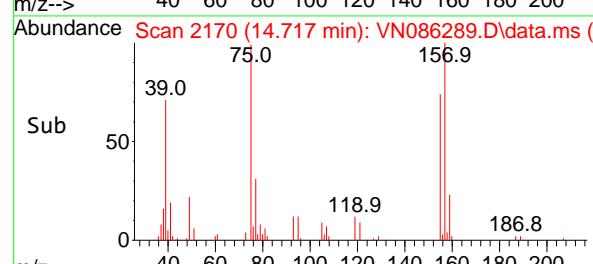
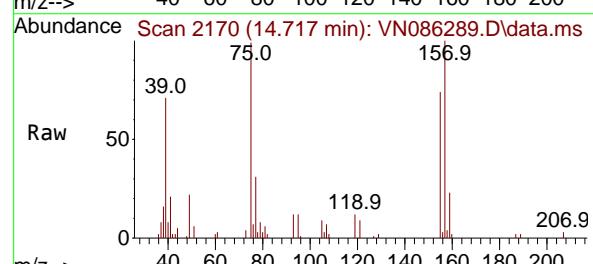
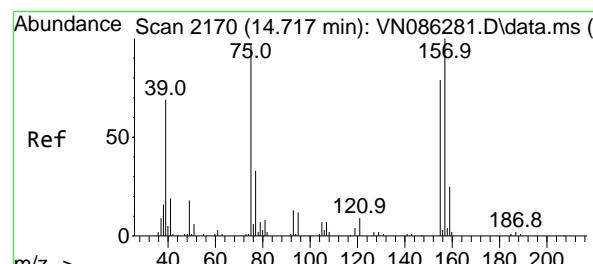
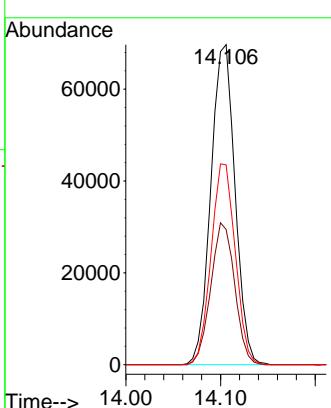


#91
1,2-Dichlorobenzene
Concen: 17.926 ug/l
RT: 14.106 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

Instrument : MSVOA_N
ClientSampleId : VN0416WBS01

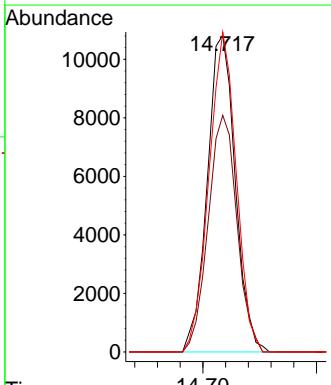
Manual Integrations
APPROVED

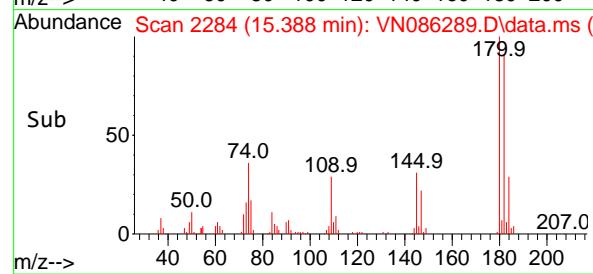
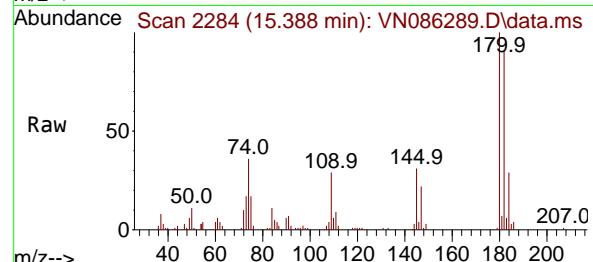
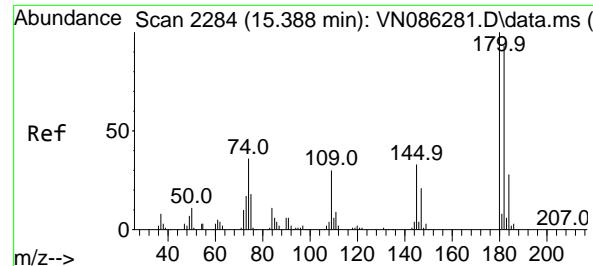
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 18.727 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

Tgt Ion: 75 Resp: 18530
Ion Ratio Lower Upper
75 100
155 76.7 40.3 120.9
157 98.3 49.0 147.2





#93

1,2,4-Trichlorobenzene

Concen: 19.355 ug/l

RT: 15.388 min Scan# 2

Instrument :

MSVOA_N

Delta R.T. 0.000 min

Lab File: VN086289.D

ClientSampleId :

Acq: 16 Apr 2025 11:52

VN0416WBS01

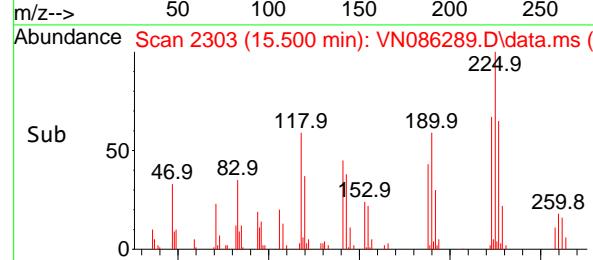
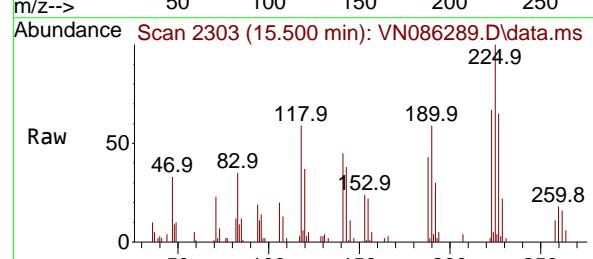
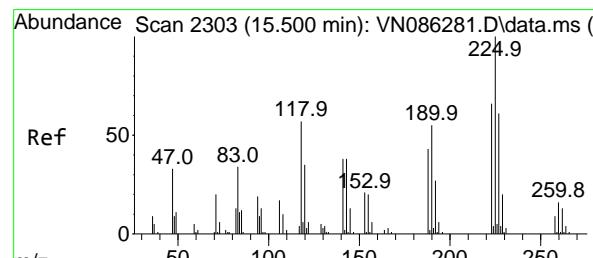
Tgt Ion:180 Resp: 63873

Ion Ratio Lower Upper

180 100

182 95.3 47.0 141.0

145 32.4 16.4 49.1

**Manual Integrations
APPROVED**
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

#94

Hexachlorobutadiene

Concen: 19.564 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. 0.000 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

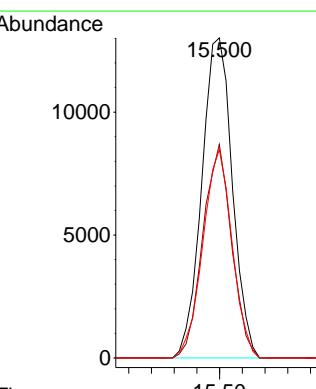
Tgt Ion:225 Resp: 24374

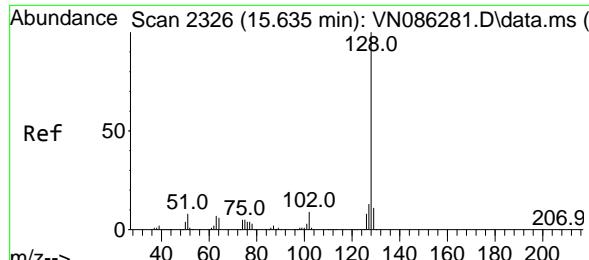
Ion Ratio Lower Upper

225 100

223 62.7 32.8 98.3

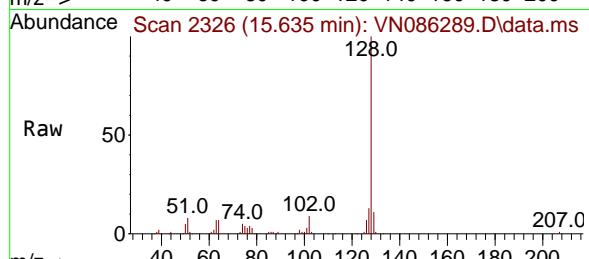
227 62.2 31.4 94.0





#95
Naphthalene
Concen: 19.041 ug/l
RT: 15.635 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

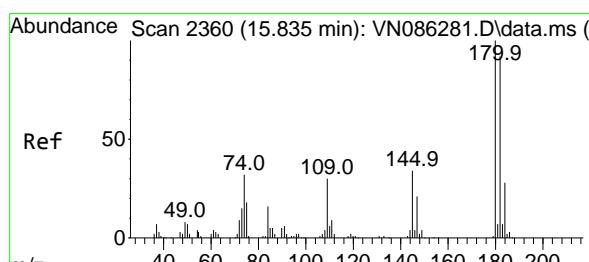
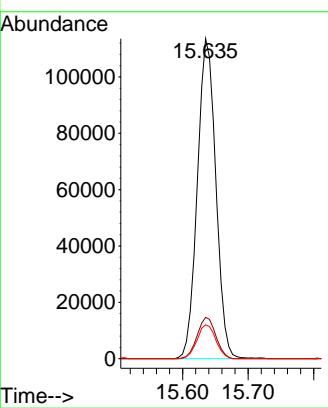
Instrument : MSVOA_N
ClientSampleId : VN0416WBS01



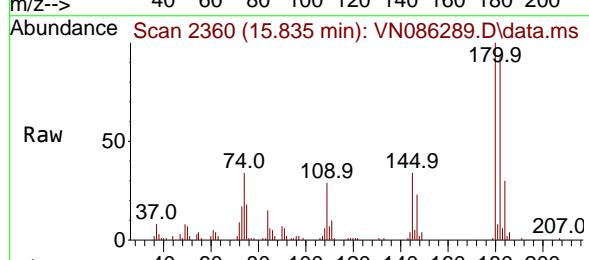
Tgt Ion:128 Resp: 222770
Ion Ratio Lower Upper
128 100
127 13.0 10.2 15.4
129 10.7 8.6 13.0

Manual Integrations APPROVED

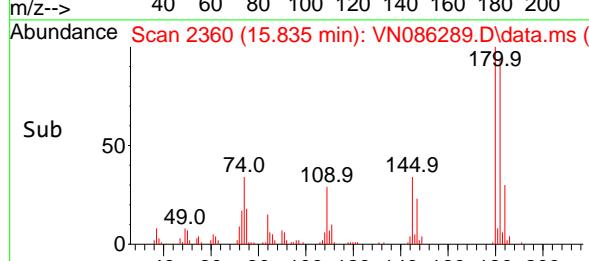
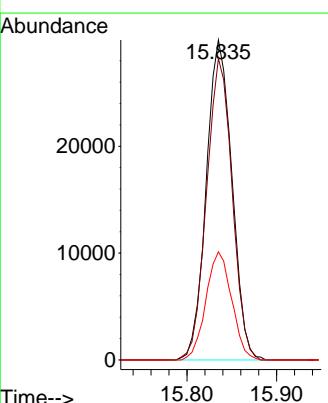
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#96
1,2,3-Trichlorobenzene
Concen: 19.024 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52



Tgt Ion:180 Resp: 59442
Ion Ratio Lower Upper
180 100
182 93.9 47.3 142.0
145 33.9 17.2 51.5





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

Report of Analysis

| | | | | |
|--------------------|---|-----------|------------|-----------------|
| Client: | JACOBS Engineering Group, Inc. | | | Date Collected: |
| Project: | Former Schlumberger STC PTC Site D3868221 | | | Date Received: |
| Client Sample ID: | VN0416WBSD01 | | SDG No.: | Q1812 |
| Lab Sample ID: | VN0416WBSD01 | | Matrix: | Water |
| Analytical Method: | SW8260 | | % Solid: | 0 |
| Sample Wt/Vol: | 5 | Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 | ID : 0.25 | Level : | LOW |
| Prep Method : | | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|-------------------|-----------|-----------|----------------|---------------|
| VN086292.D | 1 | | 04/16/25 13:14 | VN041625 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|----------------|--------------------------------|-------|-----------|-------|------------|-------|
| TARGETS | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 20.7 | | 0.22 | 1.00 | ug/L |
| 74-87-3 | Chloromethane | 19.2 | | 0.32 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 19.6 | | 0.26 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 21.7 | | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 18.9 | | 0.47 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 19.9 | | 0.33 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 19.7 | | 0.25 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 19.3 | | 0.23 | 1.00 | ug/L |
| 67-64-1 | Acetone | 110 | | 1.50 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 18.3 | | 0.21 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 19.2 | | 0.16 | 1.00 | ug/L |
| 79-20-9 | Methyl Acetate | 18.3 | | 0.27 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 19.5 | | 0.28 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 19.4 | | 0.23 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 19.2 | | 0.23 | 1.00 | ug/L |
| 110-82-7 | Cyclohexane | 19.2 | | 1.50 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 98.0 | | 0.98 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 19.9 | | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 19.2 | | 0.19 | 1.00 | ug/L |
| 74-97-5 | Bromochloromethane | 22.3 | | 0.22 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 19.3 | | 0.25 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 19.5 | | 0.20 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 19.7 | | 0.16 | 1.00 | ug/L |
| 71-43-2 | Benzene | 19.8 | | 0.15 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 19.9 | | 0.22 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 20.0 | | 0.090 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 19.6 | | 0.20 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 19.8 | | 0.22 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 100 | | 0.68 | 5.00 | ug/L |
| 108-88-3 | Toluene | 19.8 | | 0.14 | 1.00 | ug/L |



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

Report of Analysis

| | | | | |
|--------------------|---|-----------|------------|-----------------|
| Client: | JACOBS Engineering Group, Inc. | | | Date Collected: |
| Project: | Former Schlumberger STC PTC Site D3868221 | | | Date Received: |
| Client Sample ID: | VN0416WBSD01 | | SDG No.: | Q1812 |
| Lab Sample ID: | VN0416WBSD01 | | Matrix: | Water |
| Analytical Method: | SW8260 | | % Solid: | 0 |
| Sample Wt/Vol: | 5 | Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 | ID : 0.25 | Level : | LOW |
| Prep Method : | | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|-------------------|-----------|-----------|----------------|---------------|
| VN086292.D | 1 | | 04/16/25 13:14 | VN041625 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---------------------------|-----------------------------|--------|-----------|---------------------|------------|---------|
| 10061-02-6 | t-1,3-Dichloropropene | 19.9 | | 0.17 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 19.6 | | 0.16 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 19.7 | | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 99.8 | | 0.89 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 20.1 | | 0.18 | 1.00 | ug/L |
| 106-93-4 | 1,2-Dibromoethane | 20.2 | | 0.15 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 20.6 | | 0.23 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 19.7 | | 0.12 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 19.9 | | 0.13 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 39.8 | | 0.24 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 19.9 | | 0.12 | 1.00 | ug/L |
| 100-42-5 | Styrene | 20.0 | | 0.15 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 20.3 | | 0.19 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 20.0 | | 0.12 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 19.8 | | 0.26 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 20.1 | | 0.16 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 19.9 | | 0.19 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 20.5 | | 0.16 | 1.00 | ug/L |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 20.7 | | 0.53 | 1.00 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | 20.1 | | 0.20 | 1.00 | ug/L |
| 87-61-6 | 1,2,3-Trichlorobenzene | 19.8 | | 0.20 | 1.00 | ug/L |
| SURROGATES | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 53.5 | | 70 (74) - 130 (125) | 107% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 55.7 | | 70 (75) - 130 (124) | 111% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 54.6 | | 70 (86) - 130 (113) | 109% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 53.6 | | 70 (77) - 130 (121) | 107% | SPK: 50 |
| INTERNAL STANDARDS | | | | | | |
| 363-72-4 | Pentafluorobenzene | 223000 | 8.224 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 407000 | 9.1 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 359000 | 11.865 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 161000 | 13.788 | | | |



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

Report of Analysis

| | | | | |
|--------------------|---|-----------|------------|-----------------|
| Client: | JACOBS Engineering Group, Inc. | | | Date Collected: |
| Project: | Former Schlumberger STC PTC Site D3868221 | | | Date Received: |
| Client Sample ID: | VN0416WBSD01 | | SDG No.: | Q1812 |
| Lab Sample ID: | VN0416WBSD01 | | Matrix: | Water |
| Analytical Method: | SW8260 | | % Solid: | 0 |
| Sample Wt/Vol: | 5 | Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 | ID : 0.25 | Level : | LOW |
| Prep Method : | | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|-------------------|-----------|-----------|----------------|---------------|
| VN086292.D | 1 | | 04/16/25 13:14 | VN041625 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|------------|-----------|-------|-----------|-----|------------|-------|
|------------|-----------|-------|-----------|-----|------------|-------|

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
 Data File : VN086292.D
 Acq On : 16 Apr 2025 13:14
 Operator : JC\MD
 Sample : VN0416WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

Quant Time: Apr 17 03:06:31 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 04:19:23 2025
 Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/17/2025
 Supervised By :Mahesh Dadoda 04/17/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|------------------------------------|----------------|------|----------|------------|-------|----------|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 8.224 | 168 | 223172 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 9.100 | 114 | 407332 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.865 | 117 | 359125 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.788 | 152 | 160957 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.577 | 65 | 173008 | 53.460 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery | = 106.920% | | |
| 35) Dibromofluoromethane | 8.165 | 113 | 105236 | 55.666 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery | = 111.340% | | |
| 50) Toluene-d8 | 10.565 | 98 | 551979 | 54.632 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery | = 109.260% | | |
| 62) 4-Bromofluorobenzene | 12.847 | 95 | 197374 | 53.558 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery | = 107.120% | | |
| Target Compounds | | | | | | |
| | | | | Qvalue | | |
| 2) Dichlorodifluoromethane | 2.124 | 85 | 54889 | 20.748 | ug/l | 98 |
| 3) Chloromethane | 2.359 | 50 | 73640 | 19.153 | ug/l | 99 |
| 4) Vinyl Chloride | 2.512 | 62 | 72012 | 19.627 | ug/l | 99 |
| 5) Bromomethane | 2.959 | 94 | 35852 | 21.723 | ug/l | 99 |
| 6) Chloroethane | 3.124 | 64 | 46393 | 18.893 | ug/l | 99 |
| 7) Trichlorofluoromethane | 3.501 | 101 | 80825 | 19.887 | ug/l | 95 |
| 8) Diethyl Ether | 3.959 | 74 | 34233 | 19.294 | ug/l | 98 |
| 9) 1,1,2-Trichlorotrifluo... | 4.371 | 101 | 48530 | 19.739 | ug/l | 98 |
| 10) Methyl Iodide | 4.589 | 142 | 59815 | 22.129 | ug/l | 98 |
| 11) Tert butyl alcohol | 5.506 | 59 | 61056 | 103.402 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 4.342 | 96 | 50790 | 19.336 | ug/l | 97 |
| 13) Acrolein | 4.177 | 56 | 37096 | 127.326 | ug/l | 97 |
| 14) Allyl chloride | 5.024 | 41 | 85613 | 18.335 | ug/l | 98 |
| 15) Acrylonitrile | 5.718 | 53 | 144663 | 99.107 | ug/l | 99 |
| 16) Acetone | 4.424 | 43 | 122285 | 106.004 | ug/l | 98 |
| 17) Carbon Disulfide | 4.712 | 76 | 143642 | 18.263 | ug/l | 100 |
| 18) Methyl Acetate | 5.024 | 43 | 71275 | 18.348 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.794 | 73 | 185776 | 19.240 | ug/l | 98 |
| 20) Methylene Chloride | 5.277 | 84 | 58313 | 19.491 | ug/l | 97 |
| 21) trans-1,2-Dichloroethene | 5.789 | 96 | 53284 | 19.403 | ug/l | 94 |
| 22) Diisopropyl ether | 6.671 | 45 | 190187 | 18.723 | ug/l | 98 |
| 23) Vinyl Acetate | 6.600 | 43 | 679753 | 95.728 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 6.571 | 63 | 102692 | 19.160 | ug/l | 99 |
| 25) 2-Butanone | 7.477 | 43 | 197426 | 98.009 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 7.488 | 77 | 94224 | 19.635 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 7.483 | 96 | 65425 | 19.195 | ug/l | 99 |
| 28) Bromochloromethane | 7.812 | 49 | 50709 | 22.314 | ug/l | 97 |
| 29) Tetrahydrofuran | 7.835 | 42 | 128288 | 95.239 | ug/l | 99 |
| 30) Chloroform | 7.965 | 83 | 101723 | 19.321 | ug/l | 99 |
| 31) Cyclohexane | 8.253 | 56 | 100612 | 19.184 | ug/l | 96 |
| 32) 1,1,1-Trichloroethane | 8.165 | 97 | 88042 | 19.548 | ug/l | 97 |
| 36) 1,1-Dichloropropene | 8.371 | 75 | 74728 | 19.791 | ug/l | 100 |
| 37) Ethyl Acetate | 7.559 | 43 | 78235 | 19.680 | ug/l | 98 |
| 38) Carbon Tetrachloride | 8.359 | 117 | 71510 | 19.887 | ug/l | 99 |
| 39) Methylcyclohexane | 9.600 | 83 | 88385 | 19.693 | ug/l | 98 |
| 40) Benzene | 8.606 | 78 | 239253 | 19.776 | ug/l | 98 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
 Data File : VN086292.D
 Acq On : 16 Apr 2025 13:14
 Operator : JC\MD
 Sample : VN0416WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0416WBSD01

Quant Time: Apr 17 03:06:31 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 04:19:23 2025
 Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :John Carlane 04/17/2025
 Supervised By :Mahesh Dadoda 04/17/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile | 7.777 | 41 | 46759 | 20.295 | ug/1 | 98 |
| 42) 1,2-Dichloroethane | 8.665 | 62 | 76607 | 19.857 | ug/1 | 100 |
| 43) Isopropyl Acetate | 8.682 | 43 | 152965 | 20.057 | ug/1 | 98 |
| 44) Trichloroethene | 9.347 | 130 | 57388 | 20.014 | ug/1 | 96 |
| 45) 1,2-Dichloropropane | 9.618 | 63 | 58148 | 19.636 | ug/1 | 99 |
| 46) Dibromomethane | 9.706 | 93 | 38369 | 20.335 | ug/1 | 99 |
| 47) Bromodichloromethane | 9.882 | 83 | 80669 | 19.795 | ug/1 | 96 |
| 48) Methyl methacrylate | 9.677 | 41 | 65898 | 18.877 | ug/1 | 98 |
| 49) 1,4-Dioxane | 9.694 | 88 | 24101 | 405.872 | ug/1 | 99 |
| 51) 4-Methyl-2-Pentanone | 10.441 | 43 | 407802 | 100.180 | ug/1 | 99 |
| 52) Toluene | 10.629 | 92 | 149726 | 19.835 | ug/1 | 99 |
| 53) t-1,3-Dichloropropene | 10.835 | 75 | 90396 | 19.871 | ug/1 | 100 |
| 54) cis-1,3-Dichloropropene | 10.312 | 75 | 97983 | 19.610 | ug/1 | 99 |
| 55) 1,1,2-Trichloroethane | 11.012 | 97 | 53405 | 19.663 | ug/1 | 95 |
| 56) Ethyl methacrylate | 10.871 | 69 | 97183 | 19.466 | ug/1 | 99 |
| 57) 1,3-Dichloropropane | 11.159 | 76 | 95407 | 19.799 | ug/1 | 99 |
| 58) 2-Chloroethyl Vinyl ether | 10.159 | 63 | 238231 | 100.539 | ug/1 | 100 |
| 59) 2-Hexanone | 11.188 | 43 | 301404 | 99.823 | ug/1 | 99 |
| 60) Dibromochloromethane | 11.353 | 129 | 59988 | 20.114 | ug/1 | 100 |
| 61) 1,2-Dibromoethane | 11.465 | 107 | 55491 | 20.249 | ug/1 | 99 |
| 64) Tetrachloroethene | 11.100 | 164 | 56794 | 20.560 | ug/1 | 95 |
| 65) Chlorobenzene | 11.888 | 112 | 158263 | 19.747 | ug/1 | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.959 | 131 | 50996 | 19.288 | ug/1 | 96 |
| 67) Ethyl Benzene | 11.959 | 91 | 287125 | 19.853 | ug/1 | 100 |
| 68) m/p-Xylenes | 12.065 | 106 | 215908 | 39.843 | ug/1 | 99 |
| 69) o-Xylene | 12.394 | 106 | 106641 | 19.899 | ug/1 | 100 |
| 70) Styrene | 12.406 | 104 | 178378 | 19.977 | ug/1 | 100 |
| 71) Bromoform | 12.576 | 173 | 40361 | 20.276 | ug/1 # | 97 |
| 73) Isopropylbenzene | 12.694 | 105 | 262970 | 19.972 | ug/1 | 100 |
| 74) N-amyl acetate | 12.488 | 43 | 120719 | 18.417 | ug/1 | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.935 | 83 | 74922 | 19.790 | ug/1 | 100 |
| 76) 1,2,3-Trichloropropane | 12.988 | 75 | 72842m | 19.177 | ug/1 | |
| 77) Bromobenzene | 12.976 | 156 | 59625 | 20.438 | ug/1 | 99 |
| 78) n-propylbenzene | 13.029 | 91 | 310295 | 19.999 | ug/1 | 100 |
| 79) 2-Chlorotoluene | 13.123 | 91 | 193887 | 19.971 | ug/1 | 100 |
| 80) 1,3,5-Trimethylbenzene | 13.170 | 105 | 215520 | 19.999 | ug/1 | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.729 | 75 | 35468 | 22.426 | ug/1 | 92 |
| 82) 4-Chlorotoluene | 13.217 | 91 | 194326 | 20.150 | ug/1 | 99 |
| 83) tert-Butylbenzene | 13.435 | 119 | 184001 | 19.705 | ug/1 | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.476 | 105 | 219543 | 20.014 | ug/1 | 99 |
| 85) sec-Butylbenzene | 13.612 | 105 | 259844 | 20.062 | ug/1 | 99 |
| 86) p-Isopropyltoluene | 13.723 | 119 | 213950 | 20.041 | ug/1 | 99 |
| 87) 1,3-Dichlorobenzene | 13.729 | 146 | 110278 | 20.108 | ug/1 | 99 |
| 88) 1,4-Dichlorobenzene | 13.806 | 146 | 109730 | 19.865 | ug/1 | 99 |
| 89) n-Butylbenzene | 14.053 | 91 | 186077 | 19.664 | ug/1 | 99 |
| 90) Hexachloroethane | 14.329 | 117 | 34980 | 19.480 | ug/1 | 98 |
| 91) 1,2-Dichlorobenzene | 14.100 | 146 | 108953 | 20.491 | ug/1 | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.717 | 75 | 15775 | 20.666 | ug/1 | 96 |
| 93) 1,2,4-Trichlorobenzene | 15.388 | 180 | 51282 | 20.142 | ug/1 | 100 |
| 94) Hexachlorobutadiene | 15.494 | 225 | 19936 | 20.743 | ug/1 | 98 |
| 95) Naphthalene | 15.635 | 128 | 179516 | 19.890 | ug/1 | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.835 | 180 | 47677 | 19.779 | ug/1 | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
Data File : VN086292.D
Acq On : 16 Apr 2025 13:14
Operator : JC\MD
Sample : VN0416WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carbone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

Quant Time: Apr 17 03:06:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 16 04:19:23 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

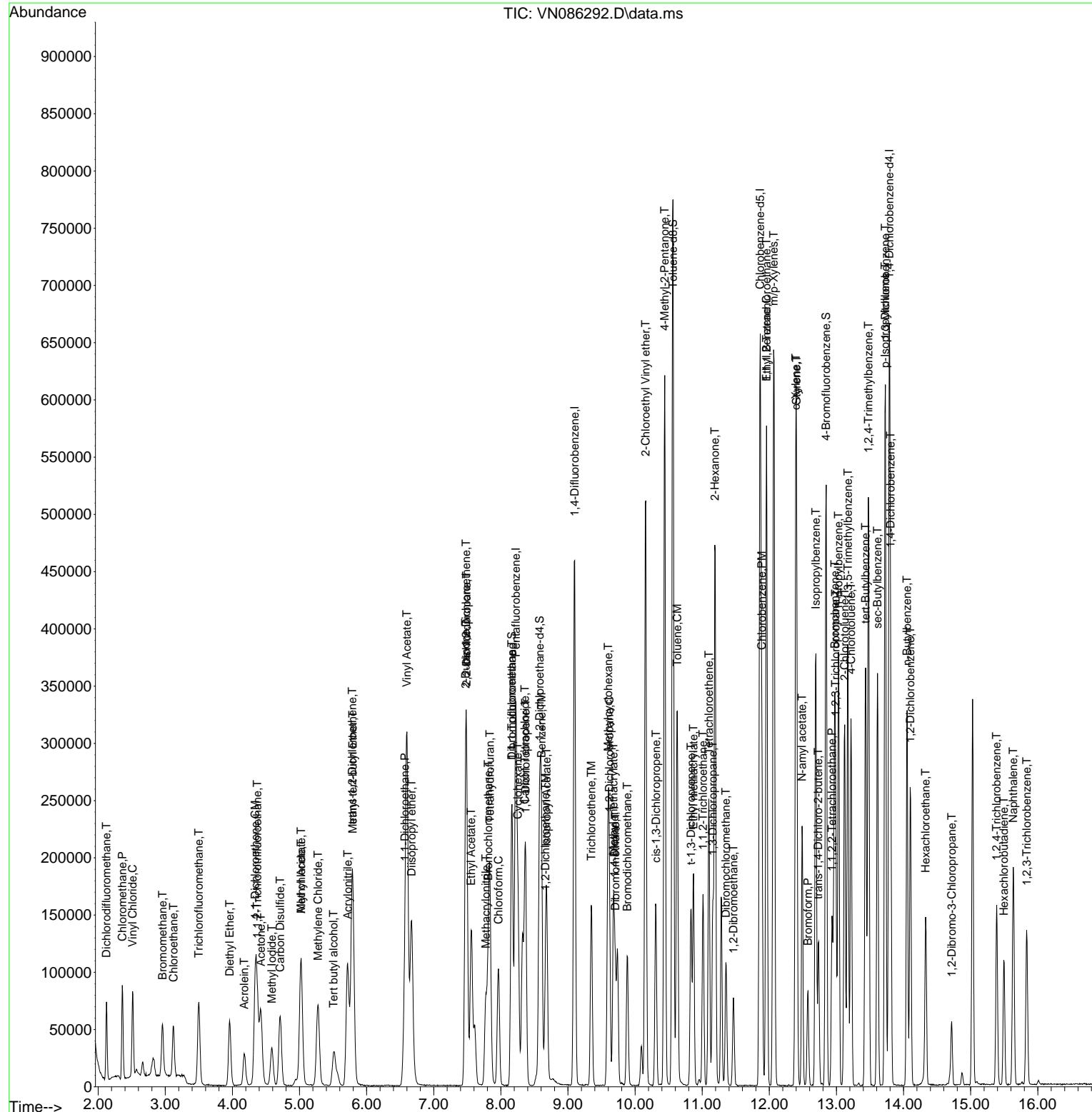
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 Data File : VN086292.D
 Acq On : 16 Apr 2025 13:14
 Operator : JC\MD
 Sample : VN0416WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

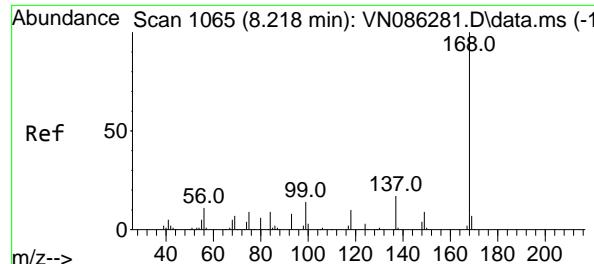
Quant Time: Apr 17 03:06:31 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 04:19:23 2025
 Response via : Initial Calibration

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0416WBSD01

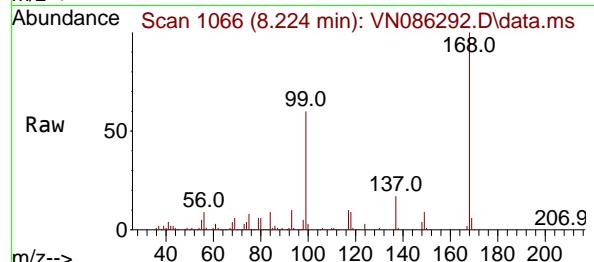
Manual Integrations
APPROVED

Reviewed By :John Carlane 04/17/2025
 Supervised By :Mahesh Dadoda 04/17/2025





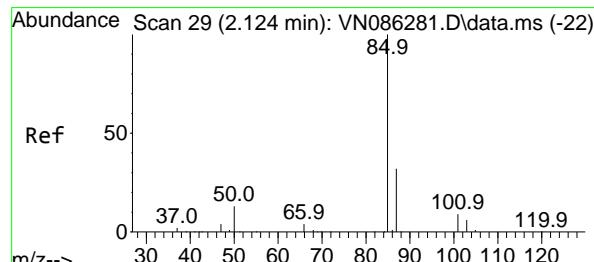
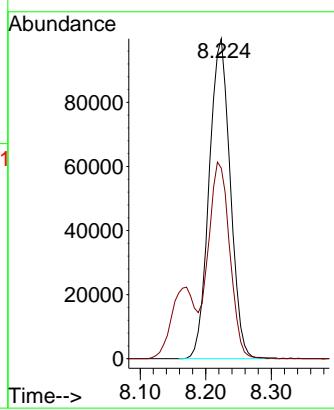
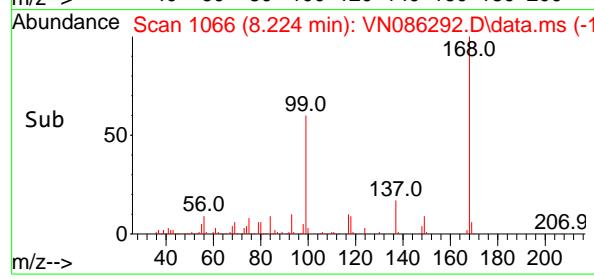
#1
 Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 8.224 min Scan# 1
 Delta R.T. 0.006 min
 Lab File: VN086292.D
 Acq: 16 Apr 2025 13:14



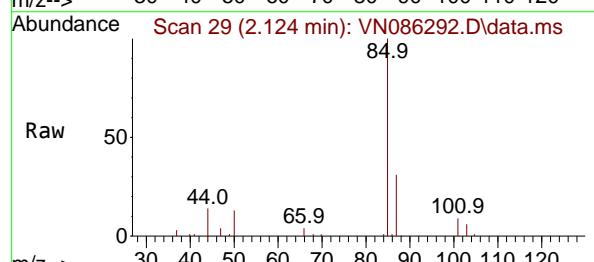
Tgt Ion:168 Resp: 22317:
 Ion Ratio Lower Upper
 168 100
 99 59.6 52.5 78.7

Manual Integrations APPROVED

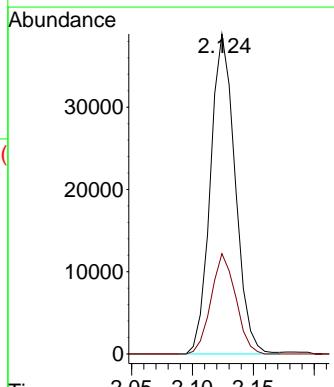
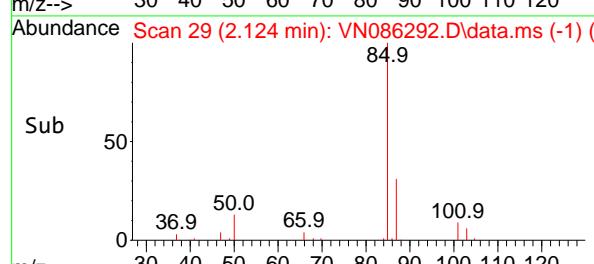
Reviewed By :John Carlone 04/17/2025
 Supervised By :Mahesh Dadoda 04/17/2025

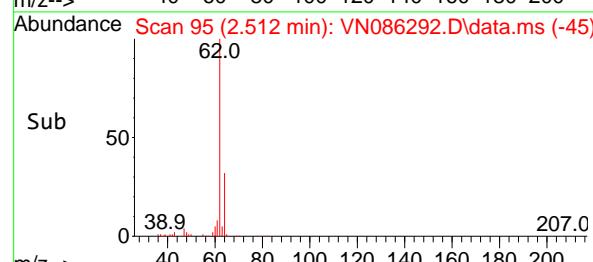
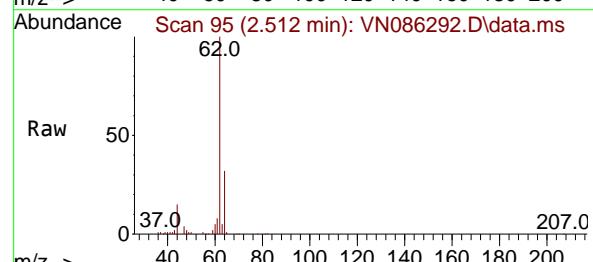
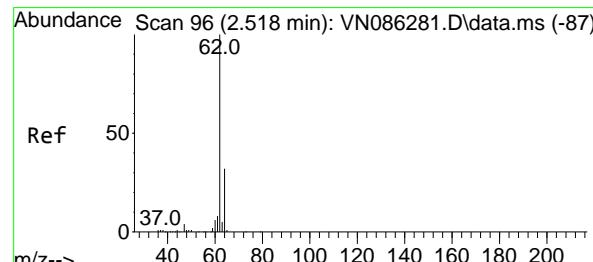
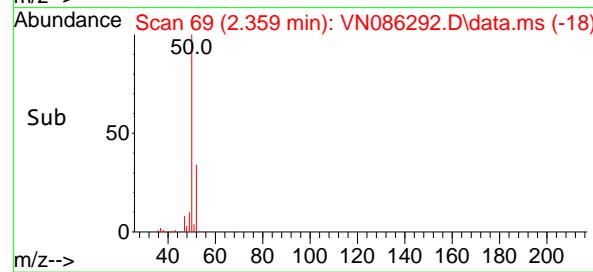
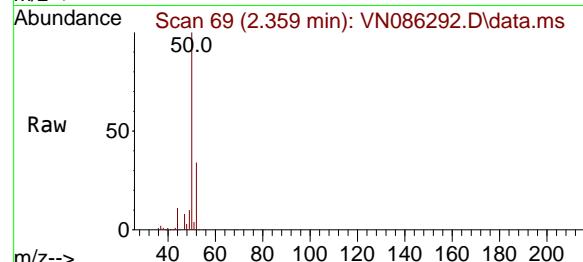
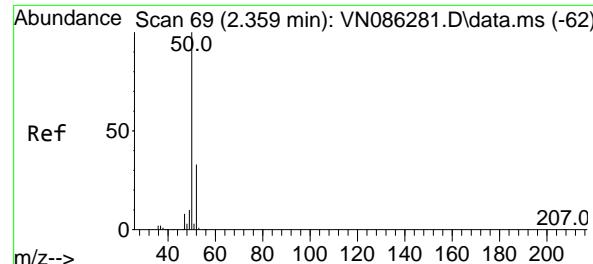


#2
 Dichlorodifluoromethane
 Concen: 20.748 ug/l
 RT: 2.124 min Scan# 29
 Delta R.T. -0.000 min
 Lab File: VN086292.D
 Acq: 16 Apr 2025 13:14



Tgt Ion: 85 Resp: 54889
 Ion Ratio Lower Upper
 85 100
 87 31.3 16.3 48.8





#3

Chloromethane

Concen: 19.153 ug/l

RT: 2.359 min Scan# 6

Delta R.T. -0.000 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

Instrument:

MSVOA_N

ClientSampleId :

VN0416WBSD01

Tgt Ion: 50 Resp: 73640

Ion Ratio Lower Upper

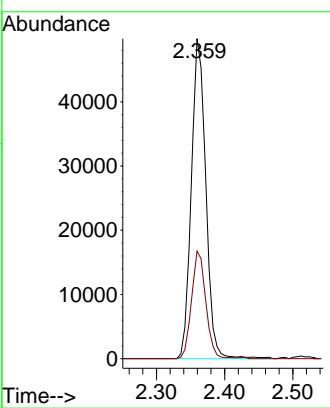
50 100

52 33.6 26.5 39.7

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#4

Vinyl Chloride

Concen: 19.627 ug/l

RT: 2.512 min Scan# 95

Delta R.T. -0.006 min

Lab File: VN086292.D

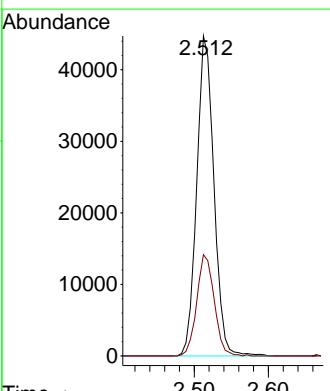
Acq: 16 Apr 2025 13:14

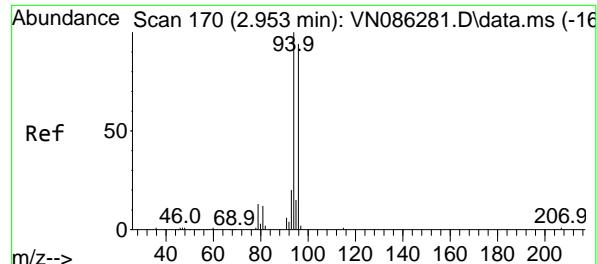
Tgt Ion: 62 Resp: 72012

Ion Ratio Lower Upper

62 100

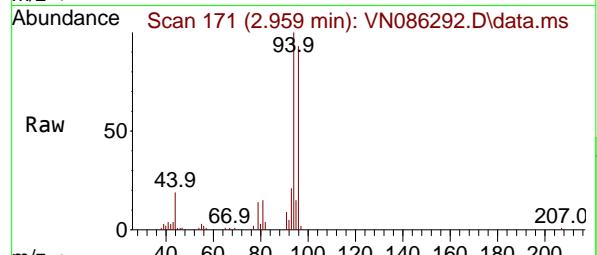
64 31.7 25.6 38.4





#5
Bromomethane
Concen: 21.723 ug/l
RT: 2.959 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

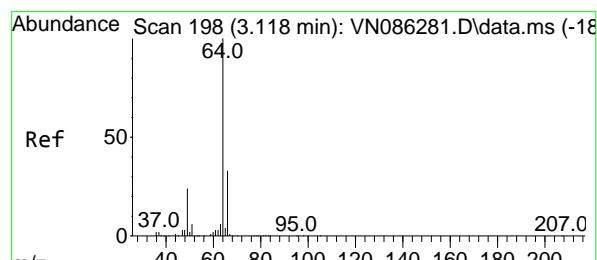
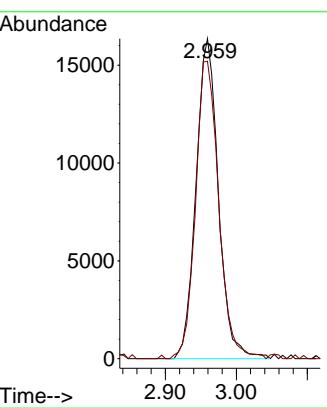
Instrument : MSVOA_N
ClientSampleId : VN0416WBSD01



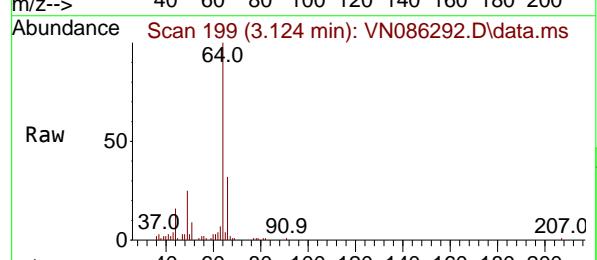
Tgt Ion: 94 Resp: 3585
Ion Ratio Lower Upper
94 100
96 93.0 75.2 112.8

Manual Integrations
APPROVED

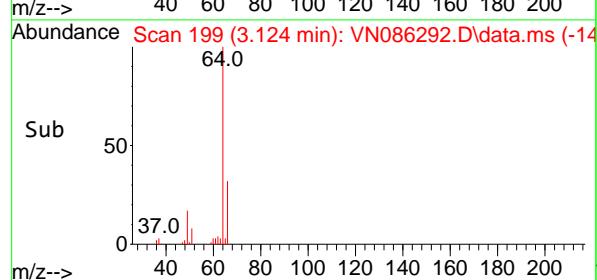
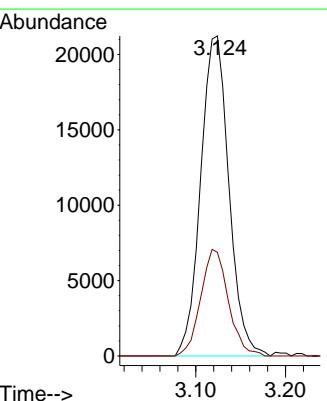
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

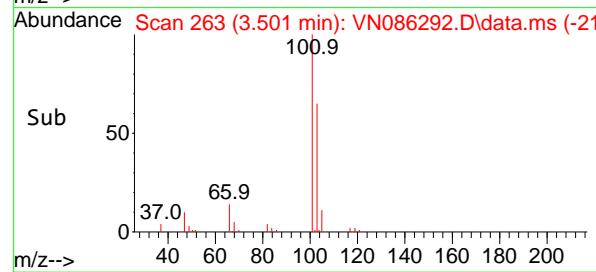
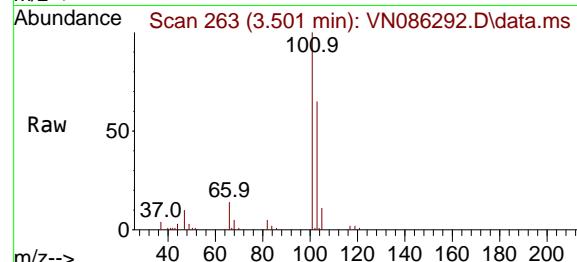
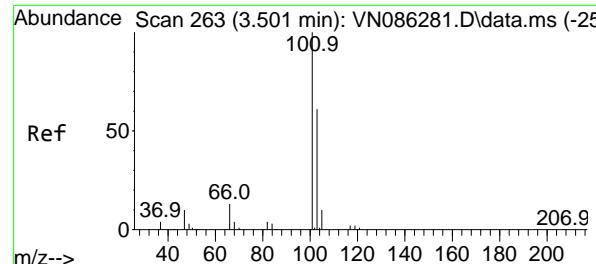


#6
Chloroethane
Concen: 18.893 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.006 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14



Tgt Ion: 64 Resp: 46393
Ion Ratio Lower Upper
64 100
66 32.4 26.2 39.2



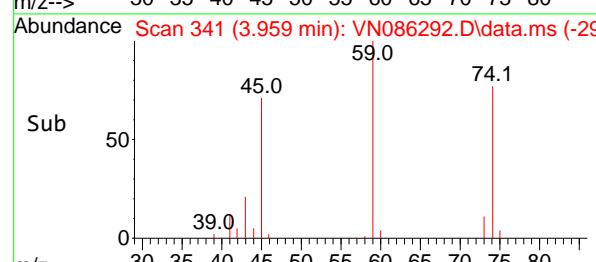
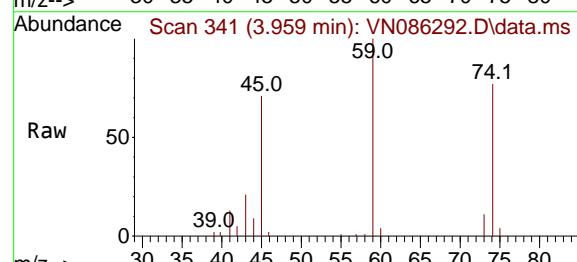
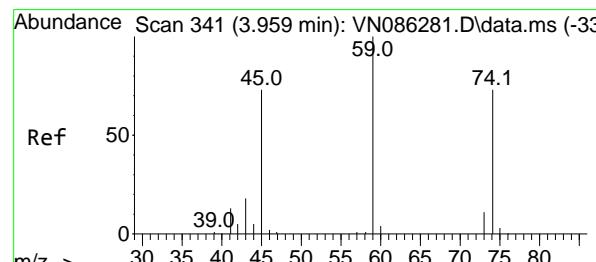


#7
Trichlorofluoromethane
Concen: 19.887 ug/l
RT: 3.501 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

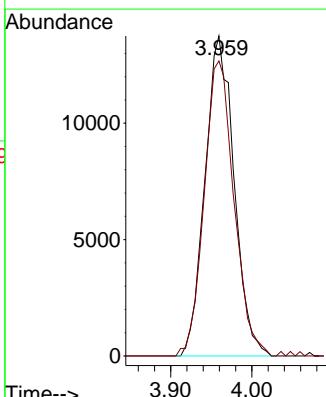
Manual Integrations APPROVED

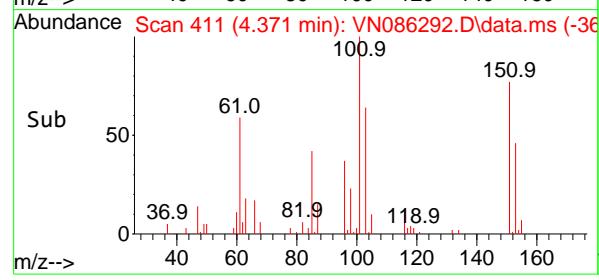
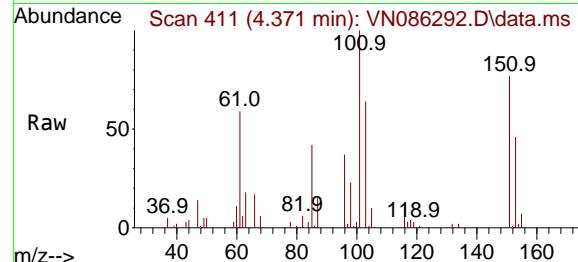
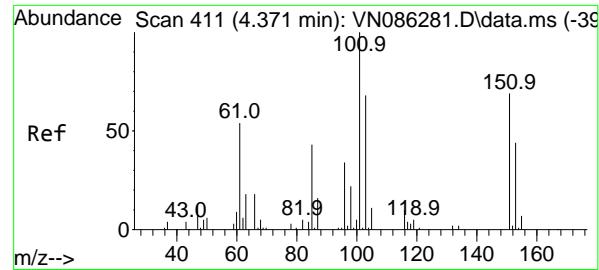
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#8
Diethyl Ether
Concen: 19.294 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

Tgt Ion: 74 Resp: 34233
Ion Ratio Lower Upper
74 100
45 94.4 48.0 144.2



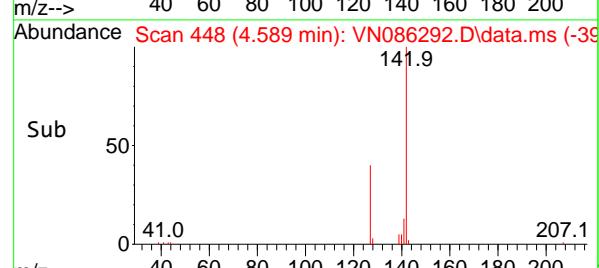
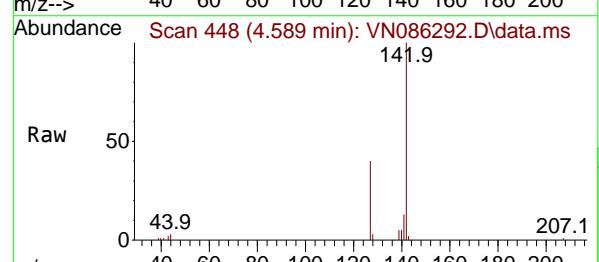
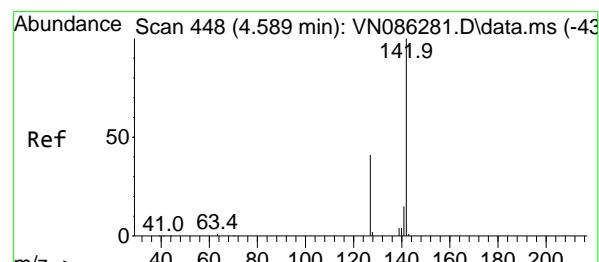


#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.739 ug/l
RT: 4.371 min Scan# 4
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

Instrument : MSVOA_N
ClientSampleId : VN0416WBSD01

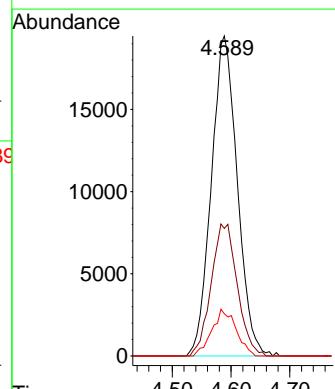
Manual Integrations APPROVED

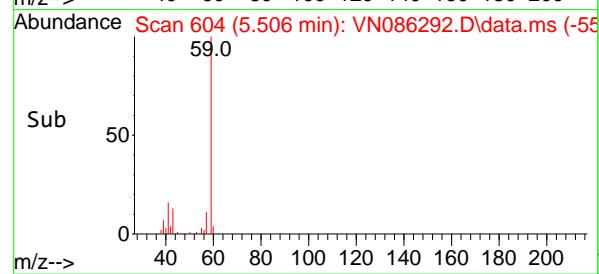
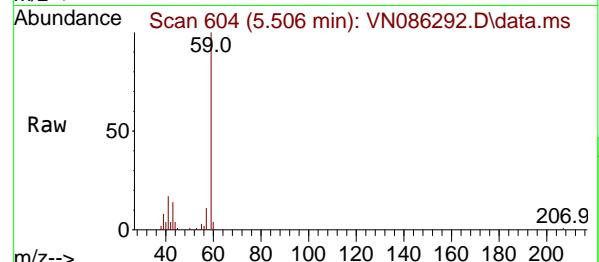
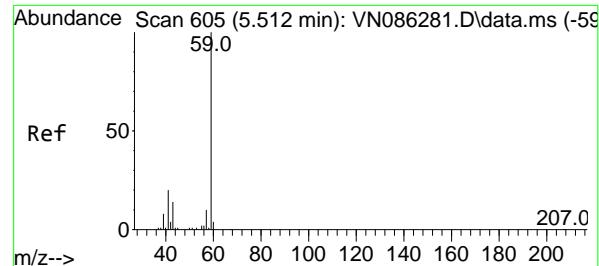
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#10
Methyl Iodide
Concen: 22.129 ug/l
RT: 4.589 min Scan# 448
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

Tgt Ion:142 Resp: 59815
Ion Ratio Lower Upper
142 100
127 39.9 32.7 49.1
141 13.2 11.7 17.5





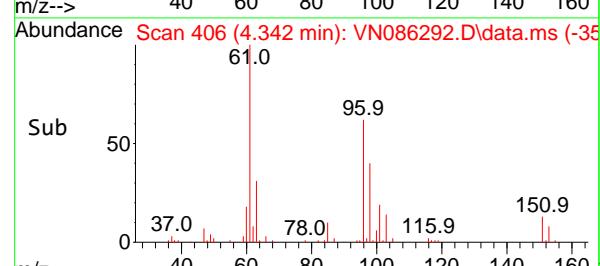
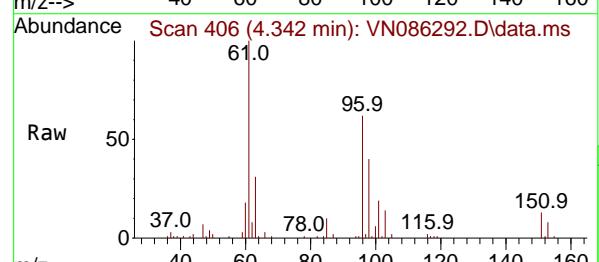
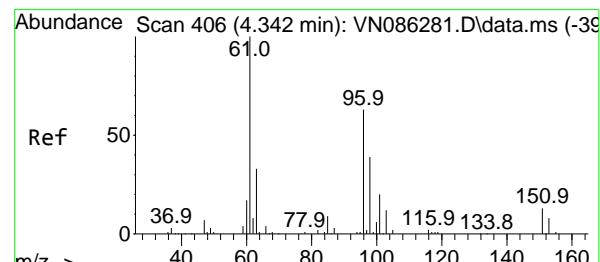
#11

Tert butyl alcohol
Concen: 103.402 ug/l
RT: 5.506 min Scan# 61050
Delta R.T. -0.006 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

Instrument : MSVOA_N
ClientSampleId : VN0416WBSD01

Manual Integrations APPROVED

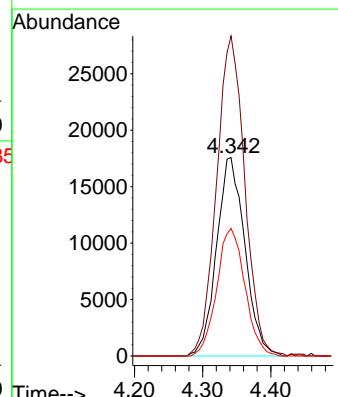
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

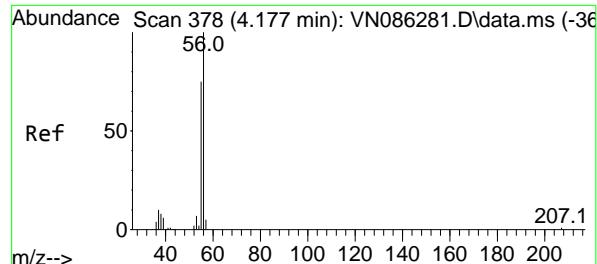


#12

1,1-Dichloroethene
Concen: 19.336 ug/l
RT: 4.342 min Scan# 406
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

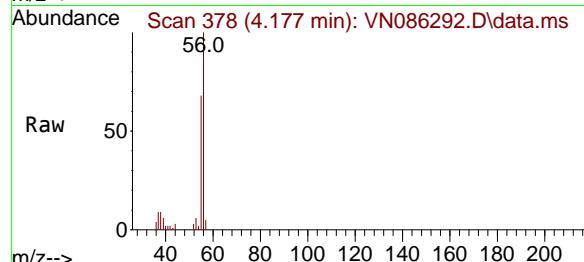
Tgt Ion: 96 Resp: 50790
Ion Ratio Lower Upper
96 100
61 161.3 126.6 189.8
98 64.3 49.6 74.4





#13
Acrolein
Concen: 127.326 ug/l
RT: 4.177 min Scan# 3
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

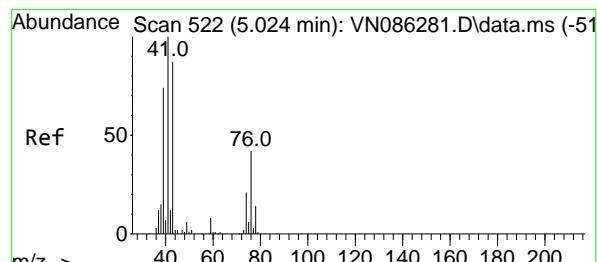
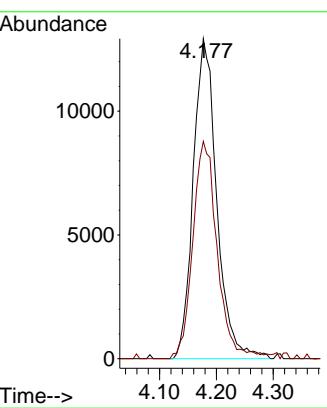
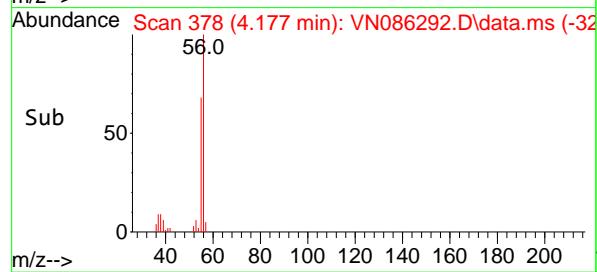
Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01



Tgt Ion: 56 Resp: 37090
Ion Ratio Lower Upper
56 100
55 70.7 58.5 87.7

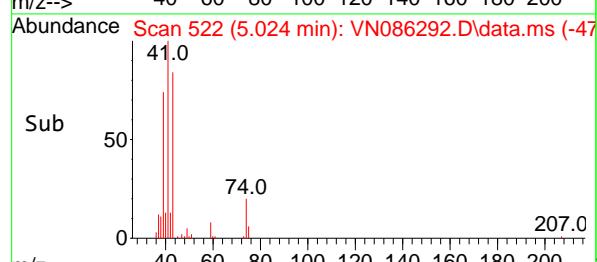
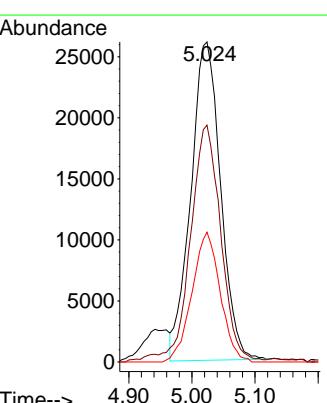
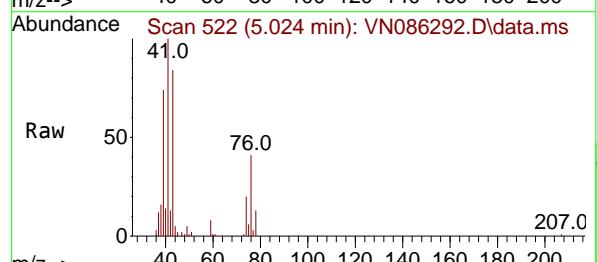
Manual Integrations APPROVED

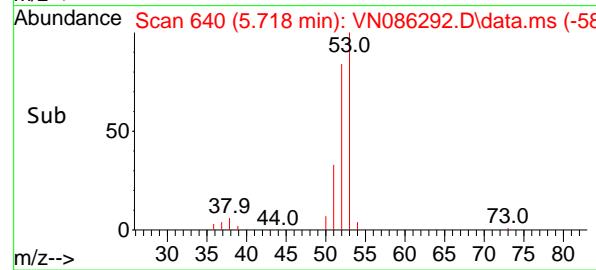
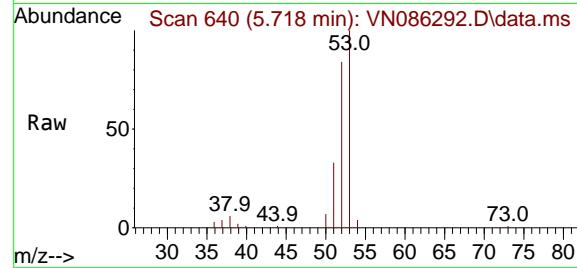
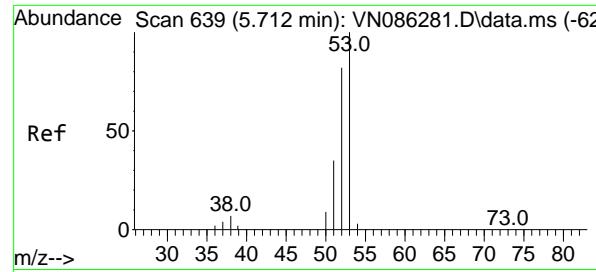
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#14
Allyl chloride
Concen: 18.335 ug/l
RT: 5.024 min Scan# 522
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

Tgt Ion: 41 Resp: 85613
Ion Ratio Lower Upper
41 100
39 76.2 59.2 88.8
76 38.5 31.2 46.8





#15

Acrylonitrile

Concen: 99.107 ug/l

RT: 5.718 min Scan# 6

Delta R.T. 0.006 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

Instrument:

MSVOA_N

ClientSampleId :

VN0416WBSD01

Tgt Ion: 53 Resp: 14466

Ion Ratio Lower Upper

53 100

52 81.6 65.5 98.3

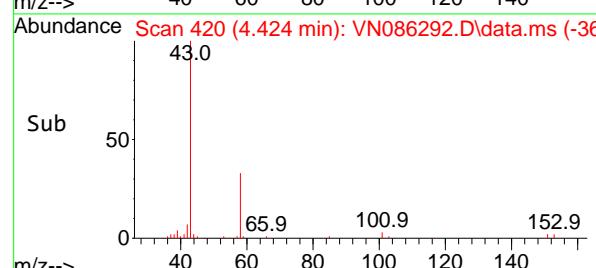
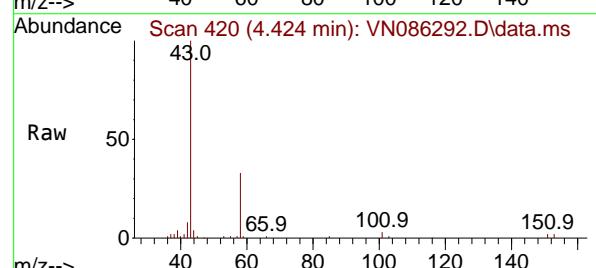
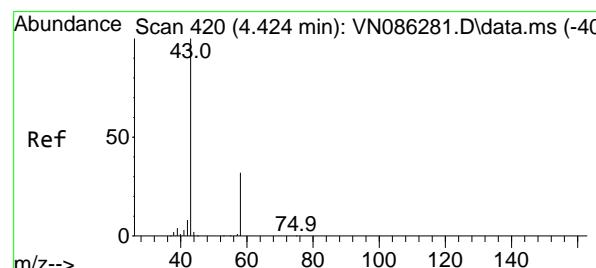
51 34.8 28.6 42.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#16

Acetone

Concen: 106.004 ug/l

RT: 4.424 min Scan# 420

Delta R.T. -0.000 min

Lab File: VN086292.D

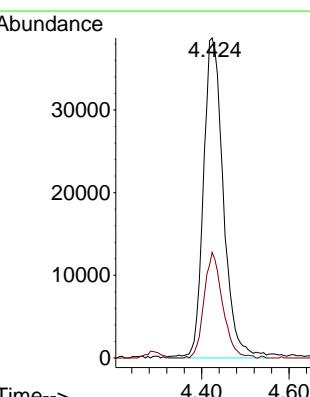
Acq: 16 Apr 2025 13:14

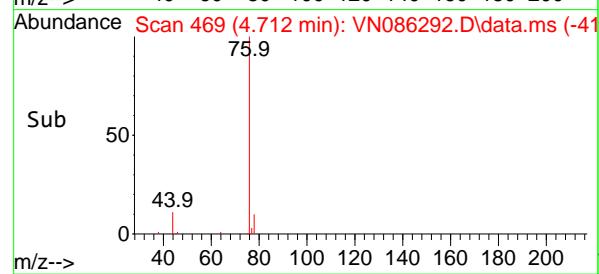
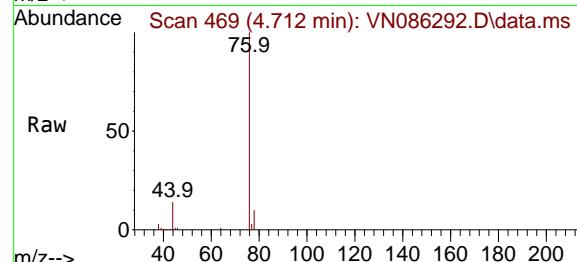
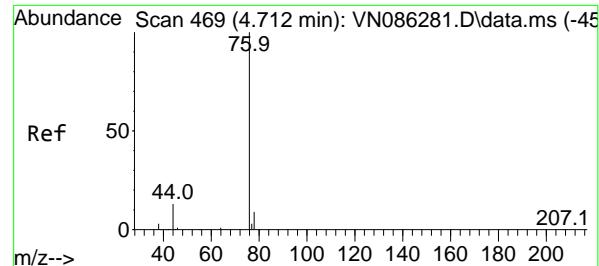
Tgt Ion: 43 Resp: 122285

Ion Ratio Lower Upper

43 100

58 32.9 25.3 37.9





#17

Carbon Disulfide

Concen: 18.263 ug/l

RT: 4.712 min Scan# 4

Delta R.T. -0.000 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

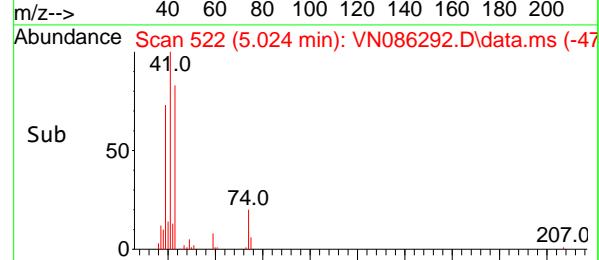
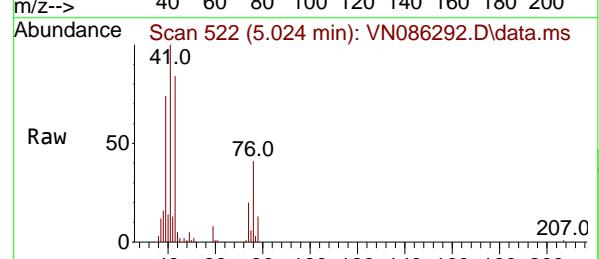
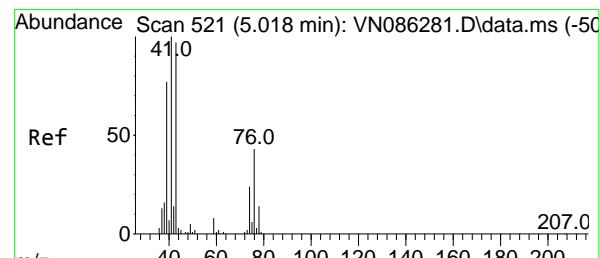
Instrument:

MSVOA_N

ClientSampleId :

VN0416WBSD01

Manual Integrations
APPROVED

 Reviewed By :John Carlone 04/17/2025
 Supervised By :Mahesh Dadoda 04/17/2025


#18

Methyl Acetate

Concen: 18.348 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.006 min

Lab File: VN086292.D

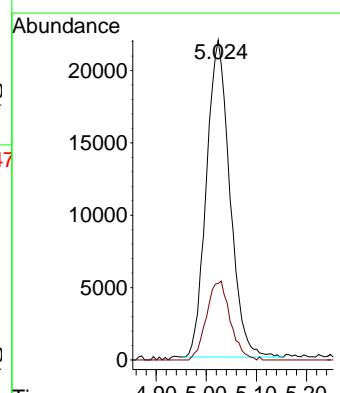
Acq: 16 Apr 2025 13:14

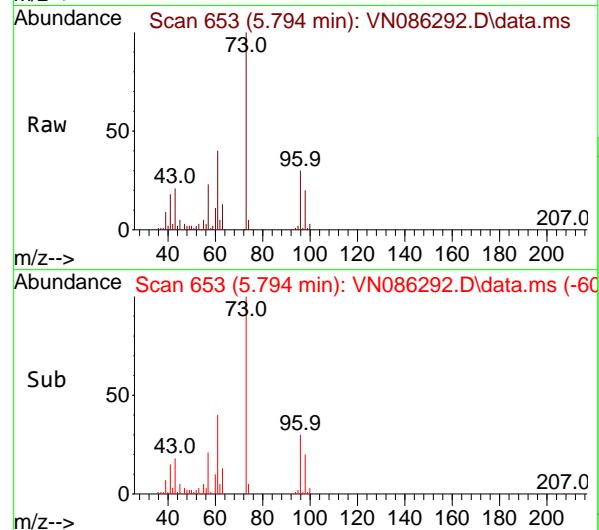
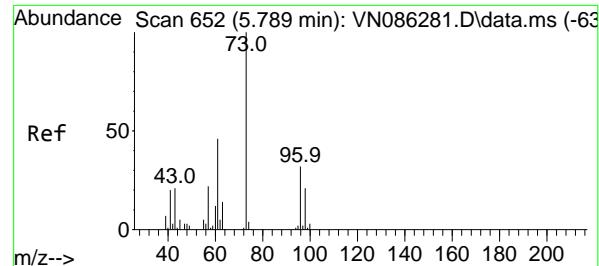
Tgt Ion: 43 Resp: 71275

Ion Ratio Lower Upper

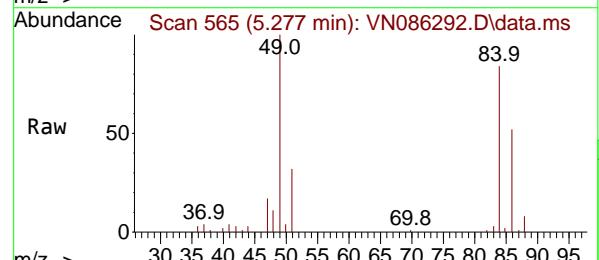
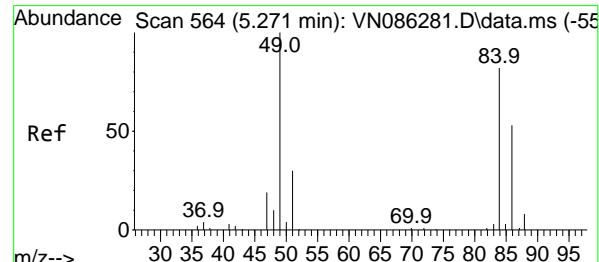
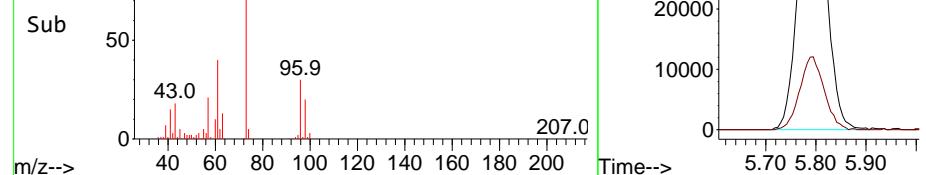
43 100

74 25.0 19.8 29.6

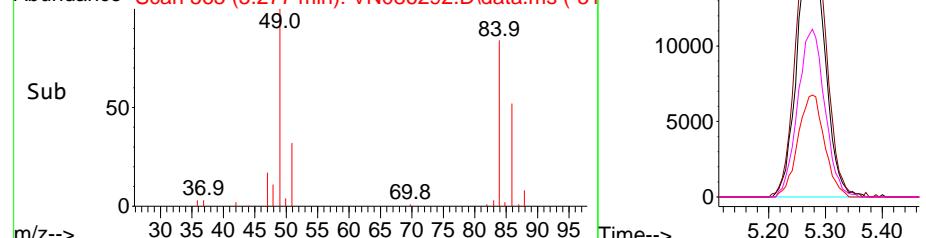




Abundance Scan 653 (5.794 min): VN086292.D\data.ms (-60)



Abundance Scan 565 (5.277 min): VN086292.D\data.ms (-51)



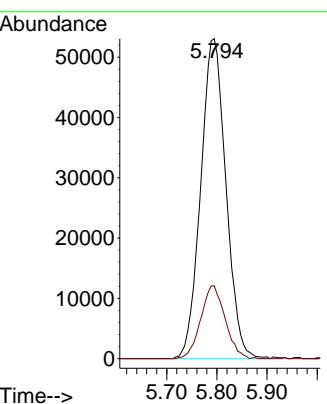
#19

Methyl tert-butyl Ether
Concen: 19.240 ug/l
RT: 5.794 min Scan# 6
Delta R.T. 0.006 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

Instrument : MSVOA_N
ClientSampleId : VN0416WBSD01

Manual Integrations APPROVED

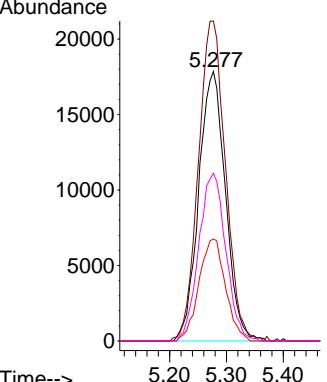
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

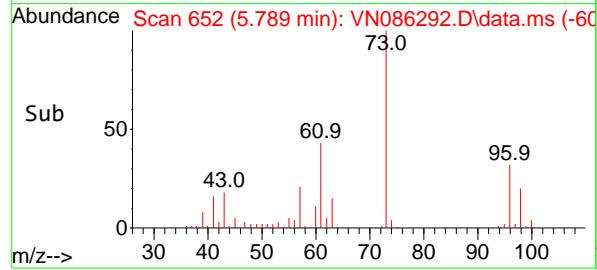
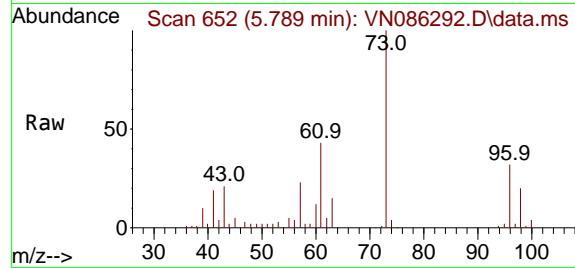
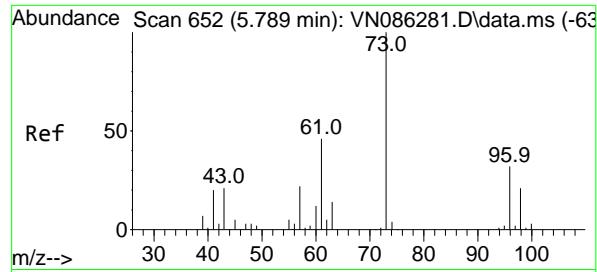


#20

Methylene Chloride
Concen: 19.491 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.006 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

Tgt Ion: 84 Resp: 58313
Ion Ratio Lower Upper
84 100
49 118.8 98.2 147.2
51 37.8 29.8 44.6
86 62.3 52.0 78.0



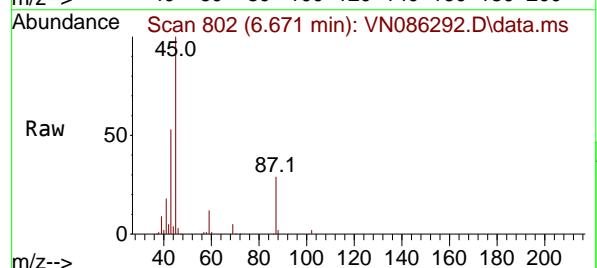
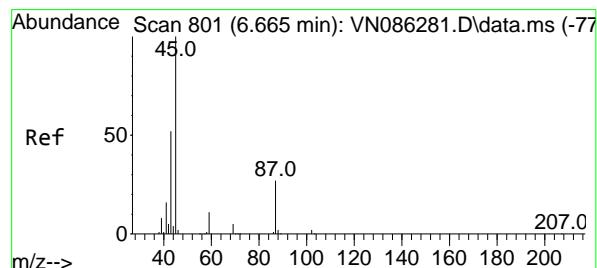
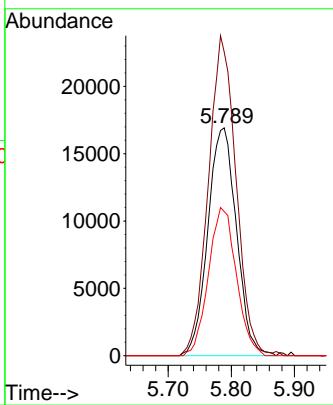


#21
trans-1,2-Dichloroethene
Concen: 19.403 ug/l
RT: 5.789 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

Instrument : MSVOA_N
ClientSampleId : VN0416WBSD01

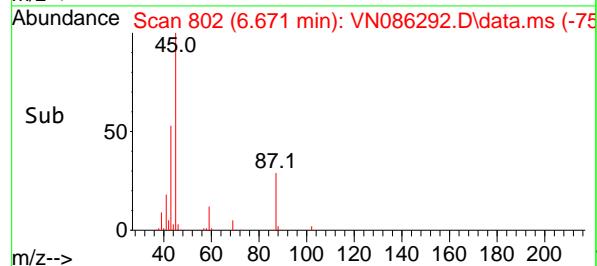
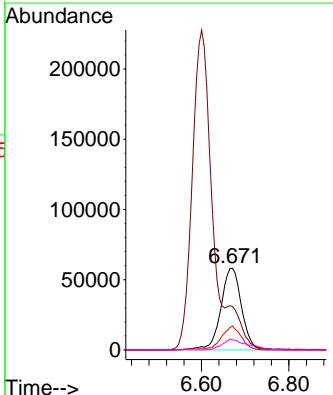
Manual Integrations APPROVED

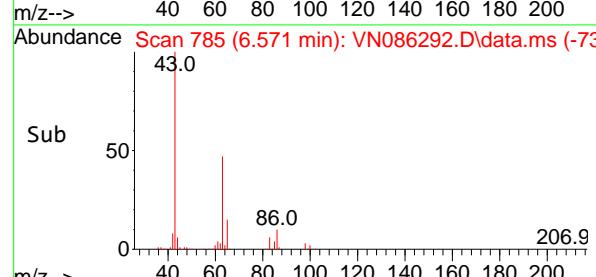
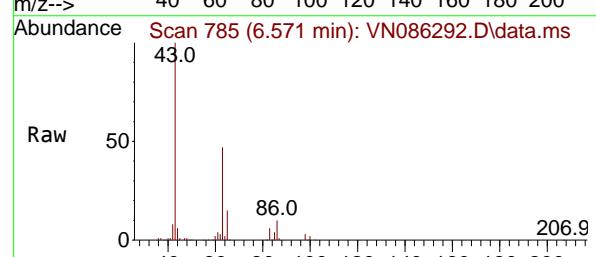
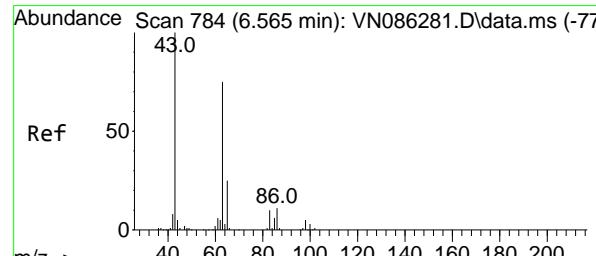
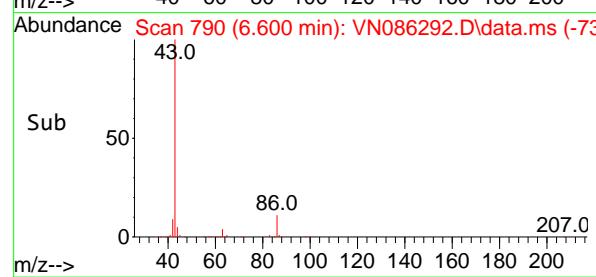
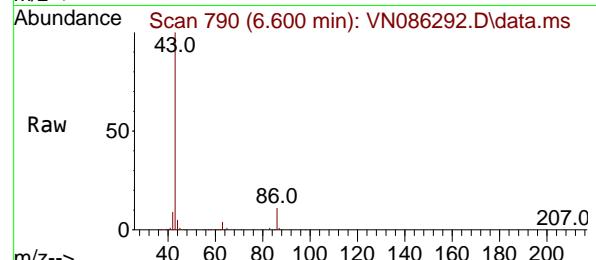
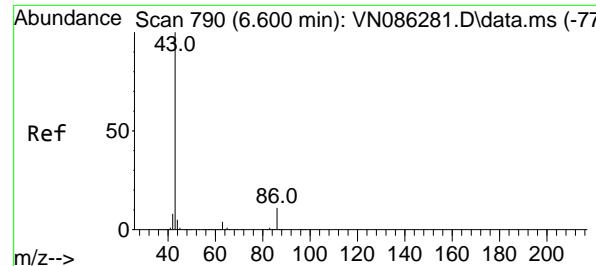
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#22
Diisopropyl ether
Concen: 18.723 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.006 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

Tgt Ion: 45 Resp: 190187
Ion Ratio Lower Upper
45 100
43 52.2 41.8 62.8
87 29.3 21.6 32.4
59 12.1 9.0 13.4





#23

Vinyl Acetate

Concen: 95.728 ug/l

RT: 6.600 min Scan# 7

Delta R.T. -0.000 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

Instrument:

MSVOA_N

ClientSampleId :

VN0416WBSD01

Tgt Ion: 43 Resp: 67975

Ion Ratio Lower Upper

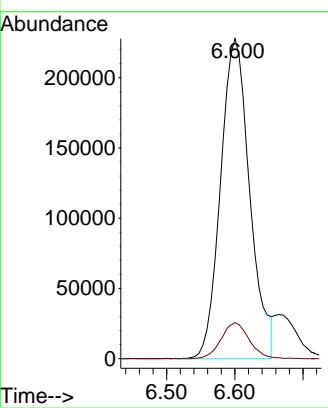
43 100

86 11.2 8.6 13.0

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#24

1,1-Dichloroethane

Concen: 19.160 ug/l

RT: 6.571 min Scan# 785

Delta R.T. 0.006 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

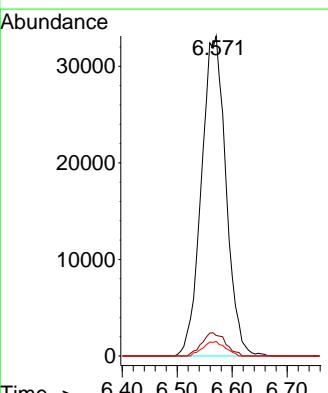
Tgt Ion: 63 Resp: 102692

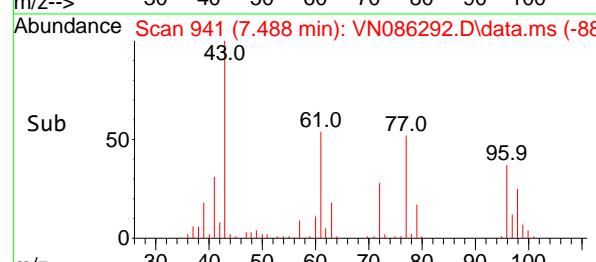
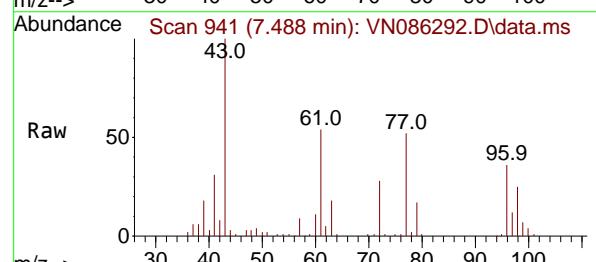
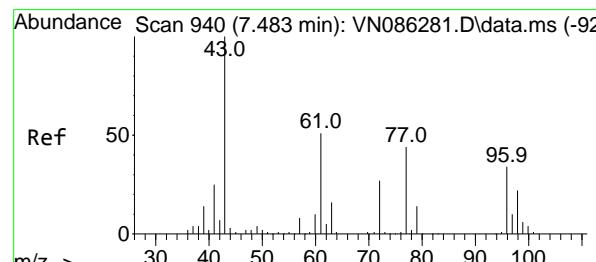
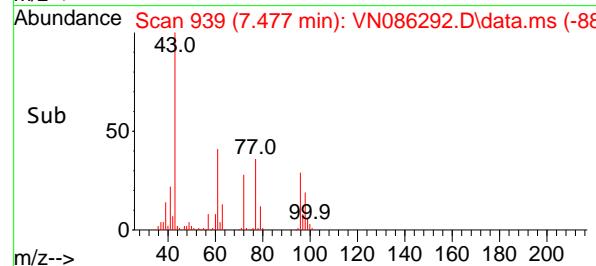
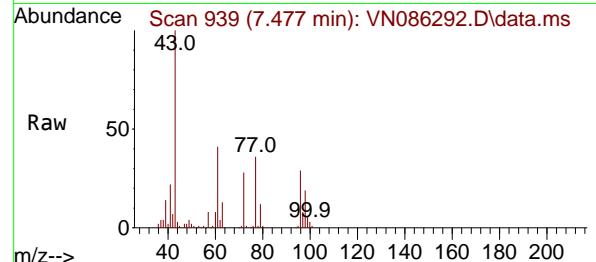
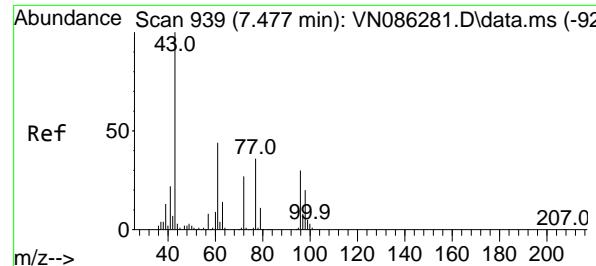
Ion Ratio Lower Upper

63 100

98 6.4 3.4 10.2

100 4.5 2.1 6.5





#25

2-Butanone

Concen: 98.009 ug/l

RT: 7.477 min Scan# 9

Delta R.T. -0.000 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

Instrument:

MSVOA_N

ClientSampleId :

VN0416WBSD01

Tgt Ion: 43 Resp: 197420

Ion Ratio Lower Upper

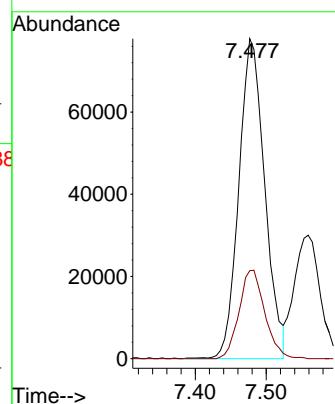
43 100

72 27.5 21.7 32.5

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#26

2,2-Dichloropropane

Concen: 19.635 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN086292.D

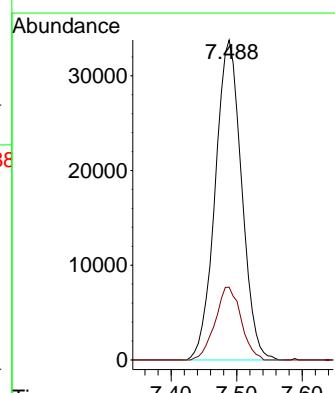
Acq: 16 Apr 2025 13:14

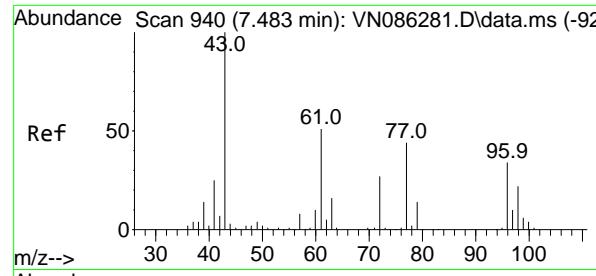
Tgt Ion: 77 Resp: 94224

Ion Ratio Lower Upper

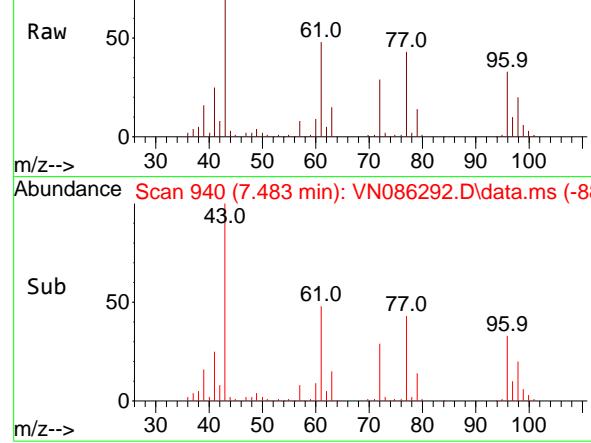
77 100

97 22.4 11.2 33.5

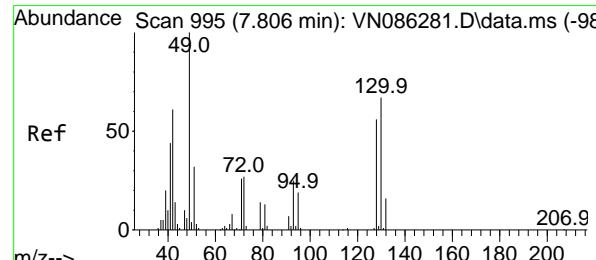
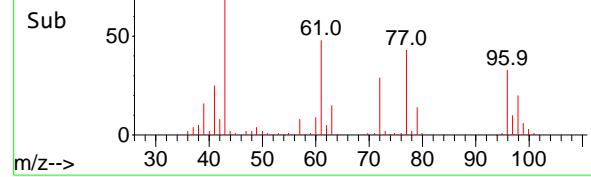




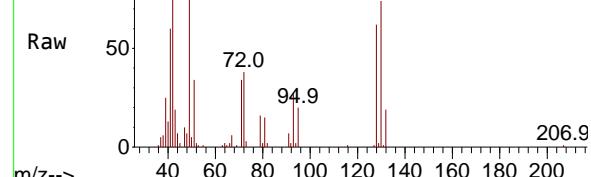
Abundance Scan 940 (7.483 min): VN086292.D\data.ms



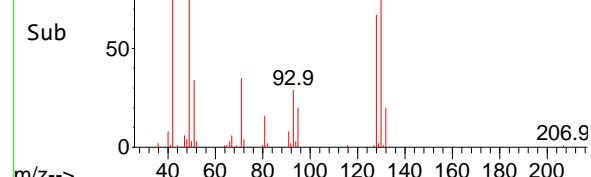
Abundance Scan 940 (7.483 min): VN086292.D\data.ms (-88)



Abundance Scan 996 (7.812 min): VN086292.D\data.ms



Abundance Scan 996 (7.812 min): VN086292.D\data.ms (-94)



#27

cis-1,2-Dichloroethene

Concen: 19.195 ug/l

RT: 7.483 min Scan# 9

Delta R.T. -0.000 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

Instrument :

MSVOA_N

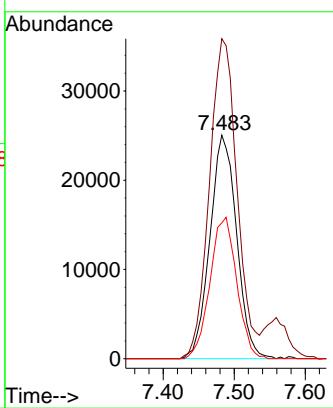
ClientSampleId :

VN0416WBSD01

Manual Integrations**APPROVED**

Reviewed By :John Carbone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#28

Bromochloromethane

Concen: 22.314 ug/l

RT: 7.812 min Scan# 996

Delta R.T. 0.006 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

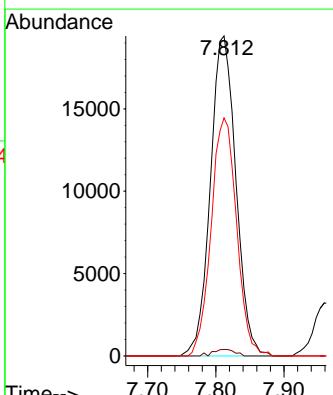
Tgt Ion: 49 Resp: 50709

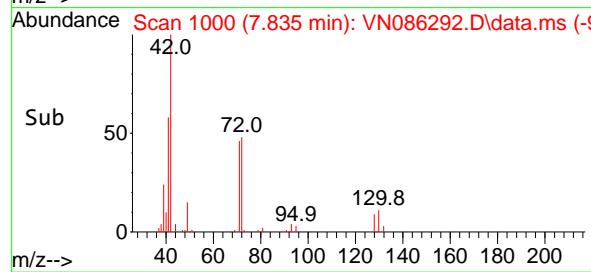
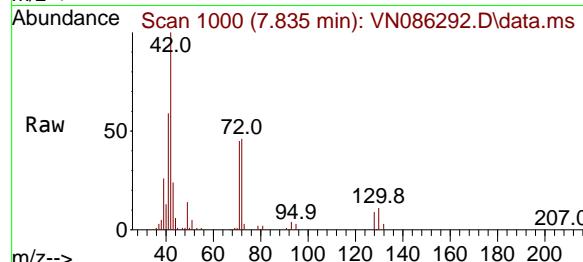
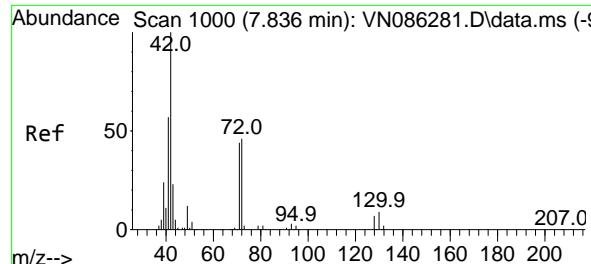
Ion Ratio Lower Upper

49 100

129 1.8 0.0 3.4

130 74.0 57.1 85.7





#29

Tetrahydrofuran

Concen: 95.239 ug/l

RT: 7.835 min Scan# 1000

Delta R.T. -0.000 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

Instrument : MSVOA_N

ClientSampleId :

VN0416WBSD01

Tgt Ion: 42 Resp: 12828

Ion Ratio Lower Upper

42 100

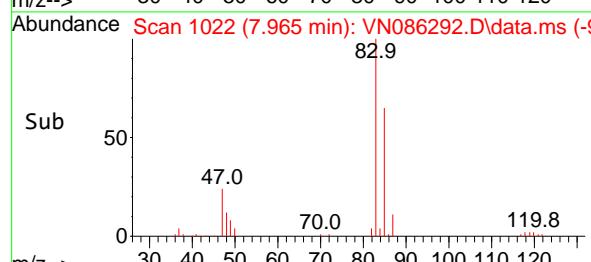
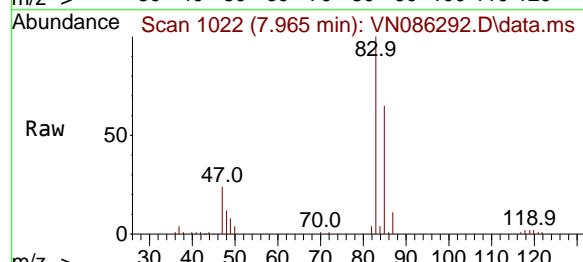
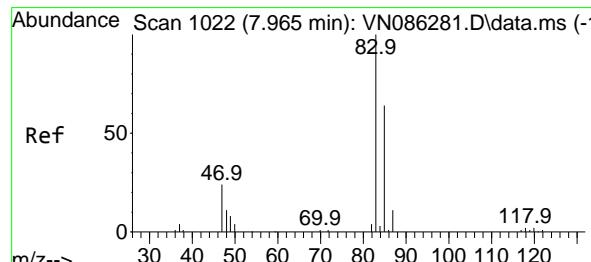
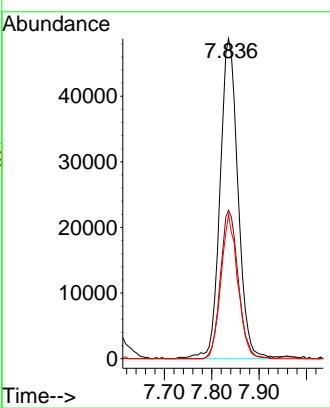
72 45.9 36.2 54.4

71 42.3 34.0 51.0

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#30

Chloroform

Concen: 19.321 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. -0.000 min

Lab File: VN086292.D

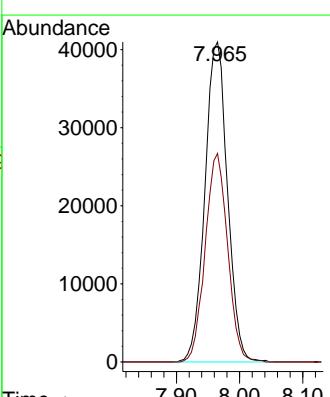
Acq: 16 Apr 2025 13:14

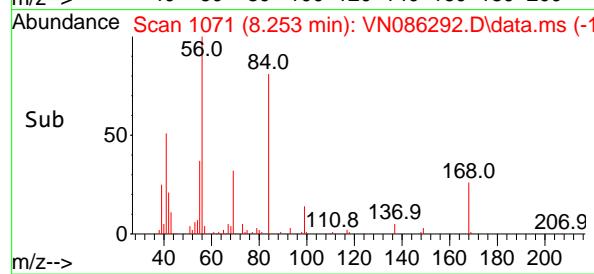
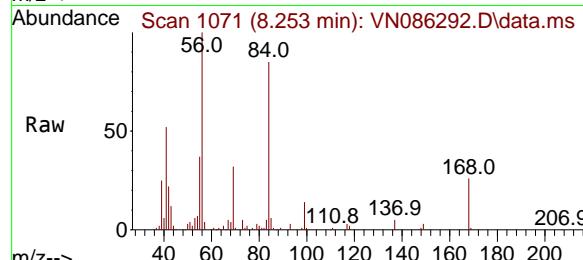
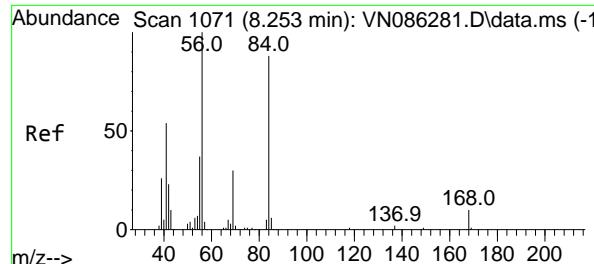
Tgt Ion: 83 Resp: 101723

Ion Ratio Lower Upper

83 100

85 65.2 51.5 77.3





#31

Cyclohexane

Concen: 19.184 ug/l

RT: 8.253 min Scan# 10061

Delta R.T. -0.000 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

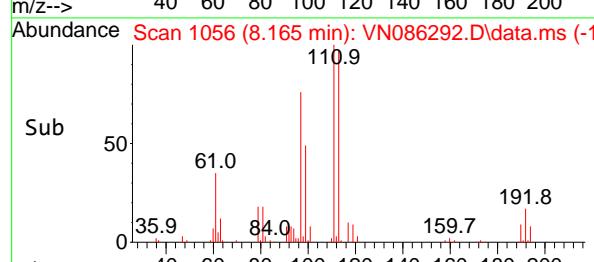
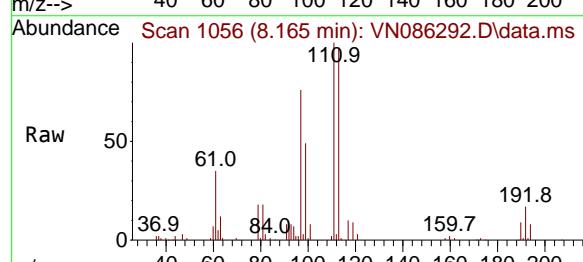
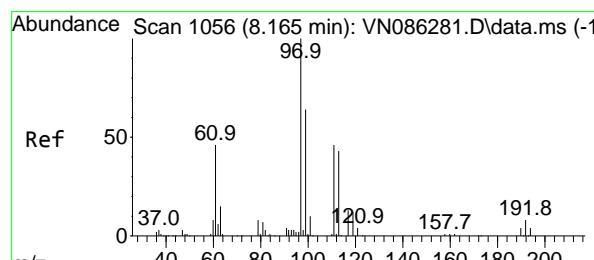
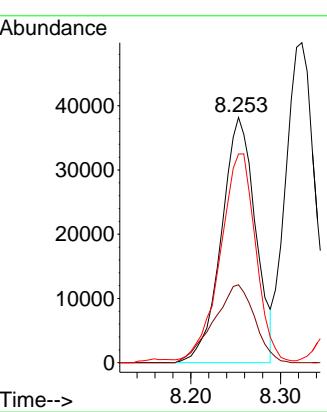
Instrument:

MSVOA_N

ClientSampleId :

VN0416WBSD01

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/17/2025
 Supervised By :Mahesh Dadoda 04/17/2025


#32

1,1,1-Trichloroethane

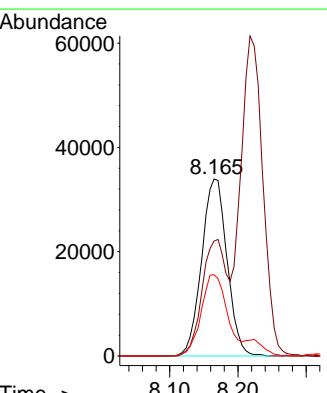
Concen: 19.548 ug/l

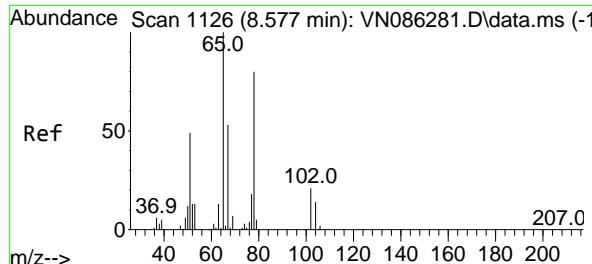
RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086292.D

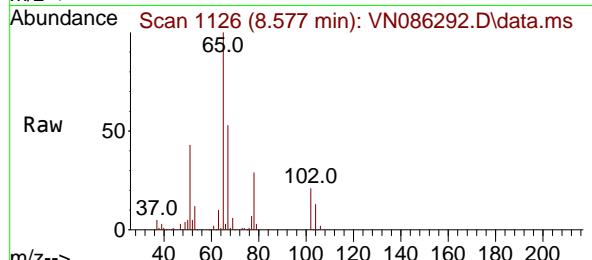
Acq: 16 Apr 2025 13:14

 Tgt Ion: 97 Resp: 88042
 Ion Ratio Lower Upper
 97 100
 99 64.2 52.7 79.1
 61 47.2 39.5 59.3




#33
1,2-Dichloroethane-d4
Concen: 53.460 ug/l
RT: 8.577 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

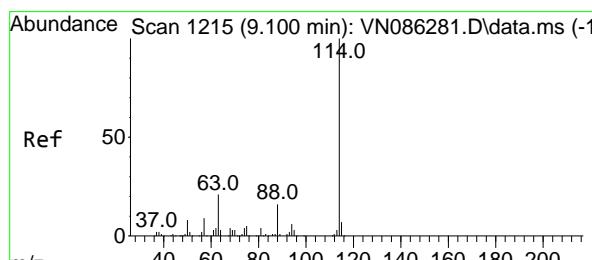
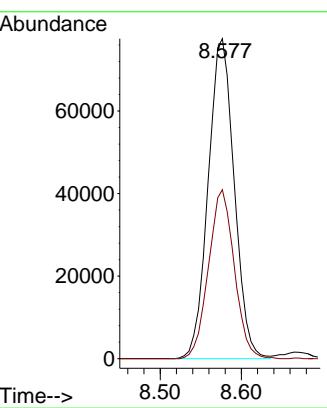
Instrument : MSVOA_N
ClientSampleId : VN0416WBSD01



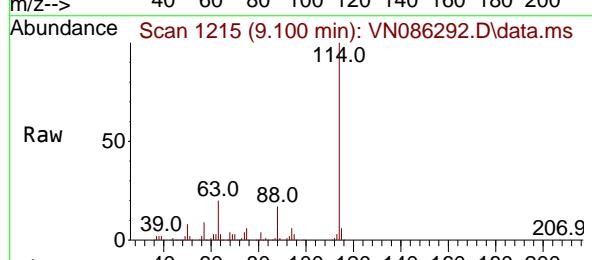
Tgt Ion: 65 Resp: 17300
Ion Ratio Lower Upper
65 100
67 52.2 0.0 106.0

Manual Integrations APPROVED

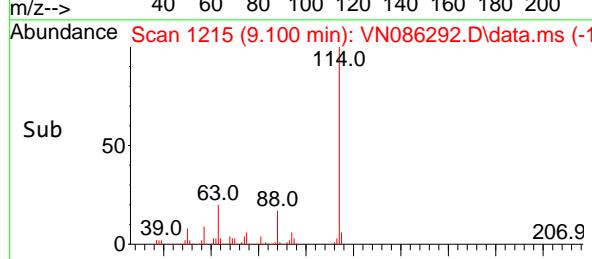
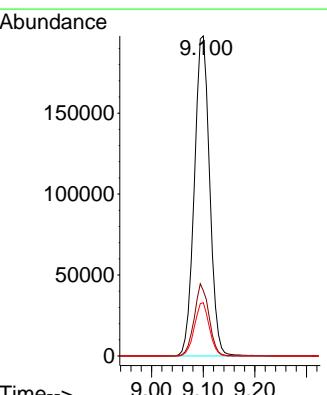
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

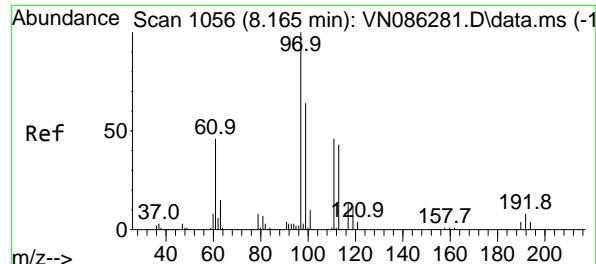


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14



Tgt Ion:114 Resp: 407332
Ion Ratio Lower Upper
114 100
63 20.4 0.0 42.6
88 16.7 0.0 31.8





#35

Dibromofluoromethane

Concen: 55.666 ug/l

RT: 8.165 min Scan# 10523

Delta R.T. -0.000 min

Lab File: VN086292.D

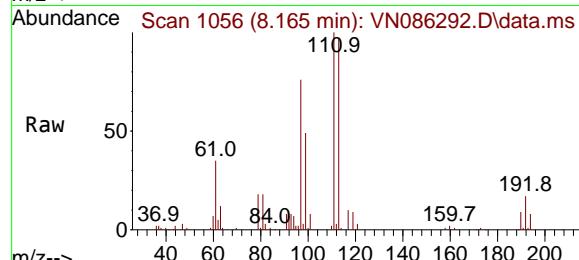
Acq: 16 Apr 2025 13:14

Instrument:

MSVOA_N

ClientSampleId :

VN0416WBSD01



Tgt Ion: 113 Resp: 105230

Ion Ratio Lower Upper

113 100

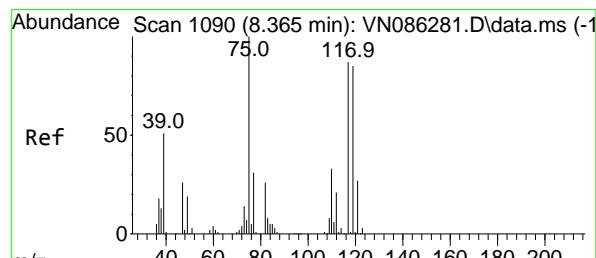
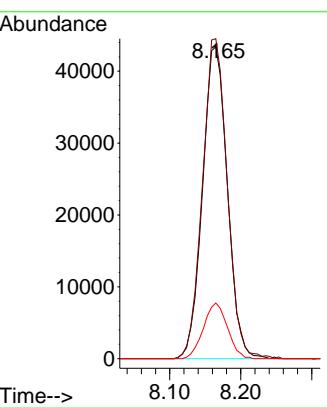
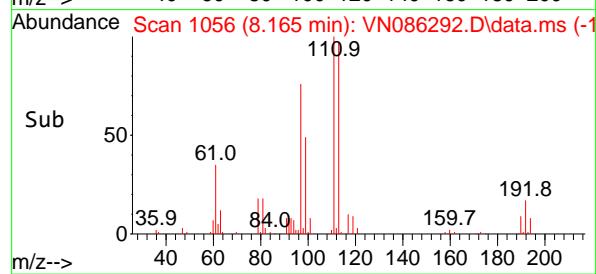
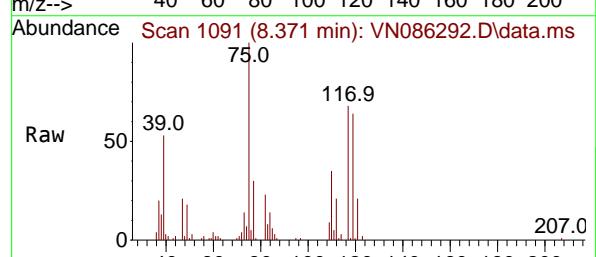
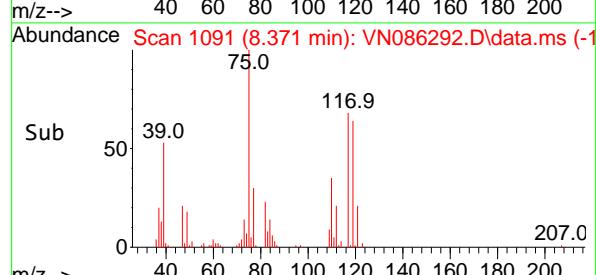
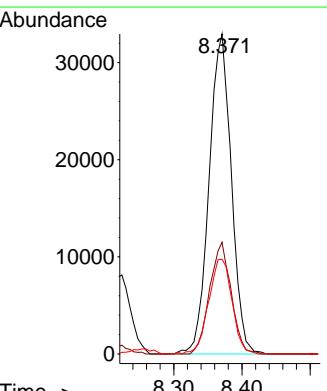
111 102.5 83.4 125.0

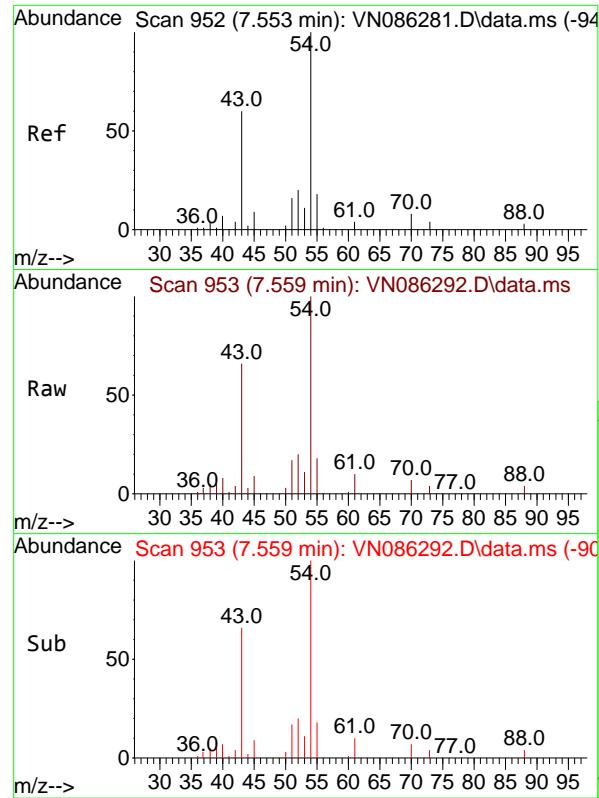
192 17.3 13.7 20.5

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025

#36
1,1-Dichloropropene
Concen: 19.791 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. 0.006 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14Tgt Ion: 75 Resp: 74728
Ion Ratio Lower Upper
75 100
110 33.9 16.8 50.4
77 31.2 24.9 37.3



#37

Ethyl Acetate

Concen: 19.680 ug/l

RT: 7.559 min Scan# 9

Delta R.T. 0.006 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

Instrument:

MSVOA_N

ClientSampleId :

VN0416WBSD01

Tgt Ion: 43 Resp: 7823

Ion Ratio Lower Upper

43 100

61 13.1 11.1 16.7

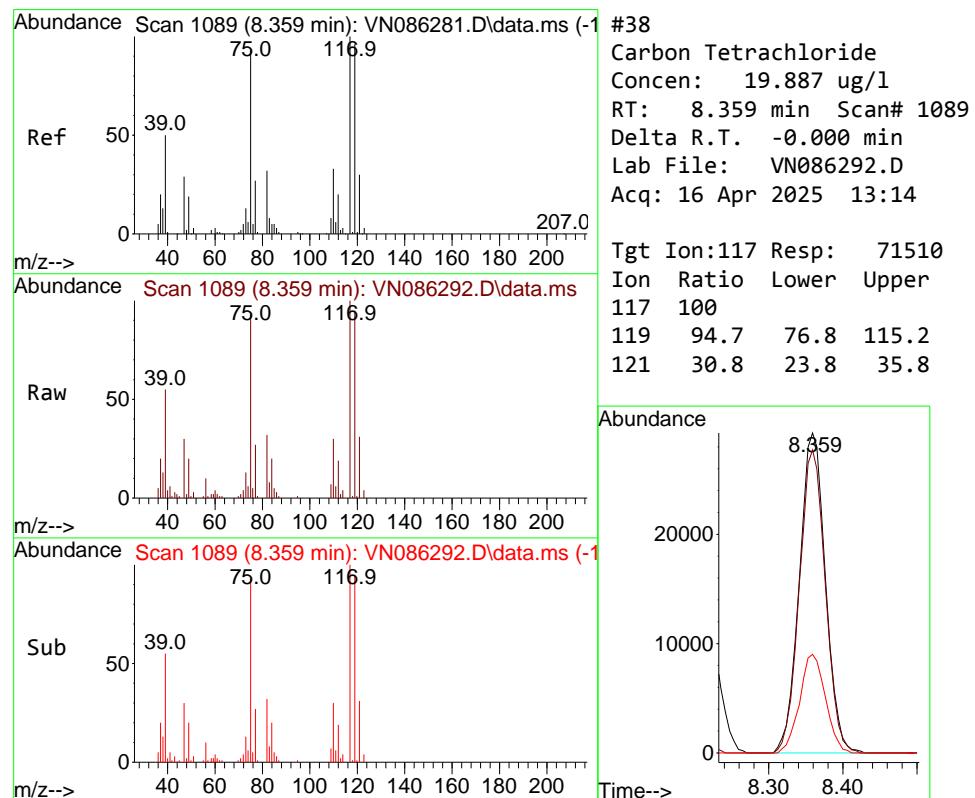
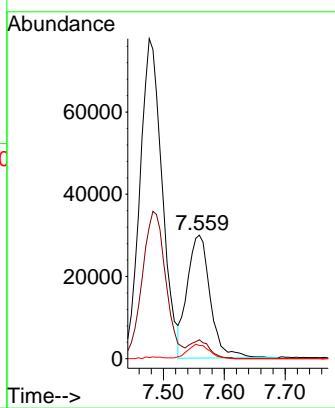
70 11.1 9.2 13.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#38

Carbon Tetrachloride

Concen: 19.887 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. -0.000 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

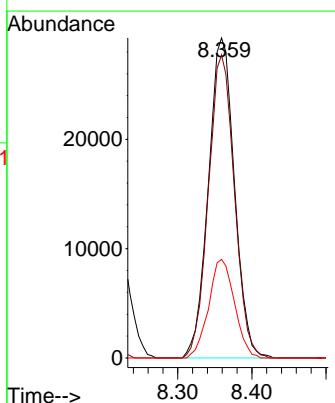
Tgt Ion:117 Resp: 71510

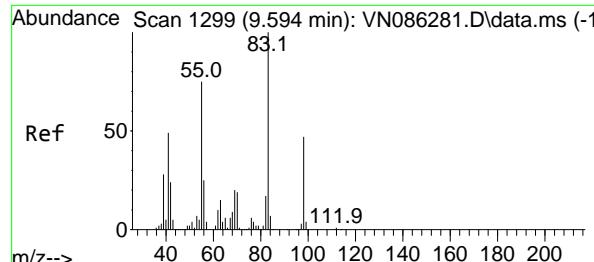
Ion Ratio Lower Upper

117 100

119 94.7 76.8 115.2

121 30.8 23.8 35.8





#39

Methylcyclohexane

Concen: 19.693 ug/l

RT: 9.600 min Scan# 1

Delta R.T. 0.006 min

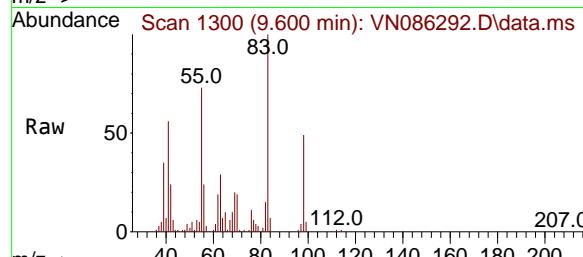
Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

Instrument : MSVOA_N

ClientSampleId :

VN0416WBSD01



Tgt Ion: 83 Resp: 88389

Ion Ratio Lower Upper

83 100

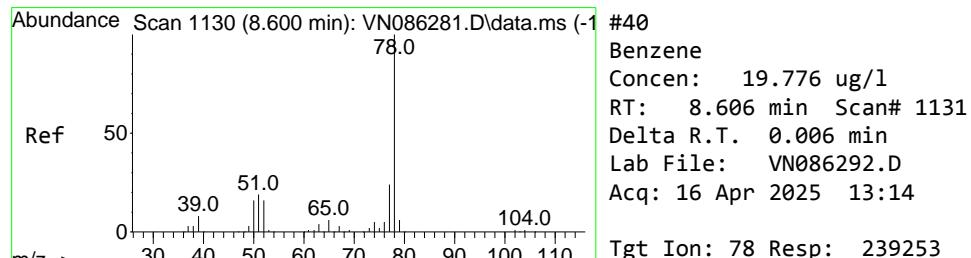
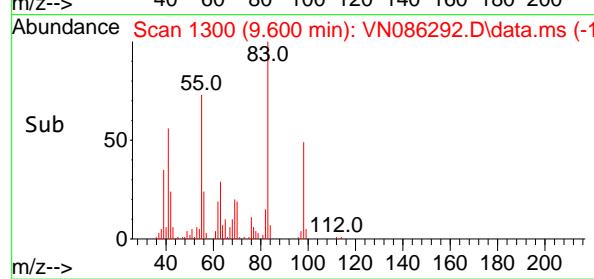
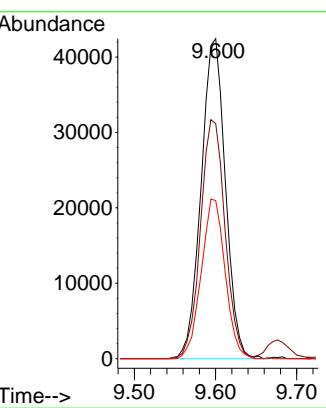
55 73.5 59.8 89.8

98 49.4 37.9 56.9

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#40

Benzene

Concen: 19.776 ug/l

RT: 8.606 min Scan# 1131

Delta R.T. 0.006 min

Lab File: VN086292.D

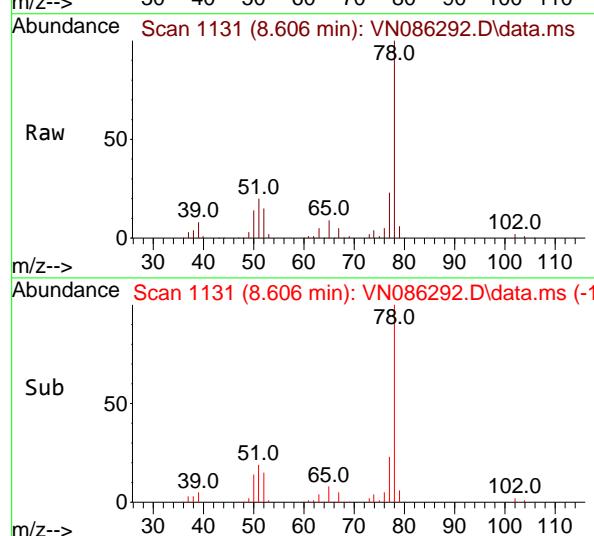
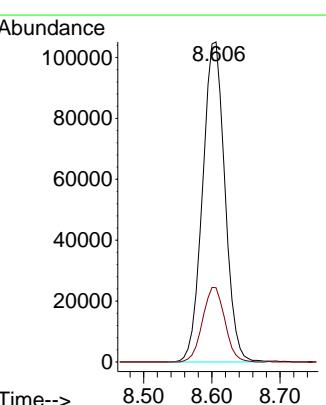
Acq: 16 Apr 2025 13:14

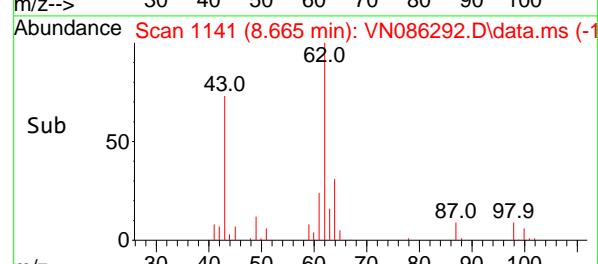
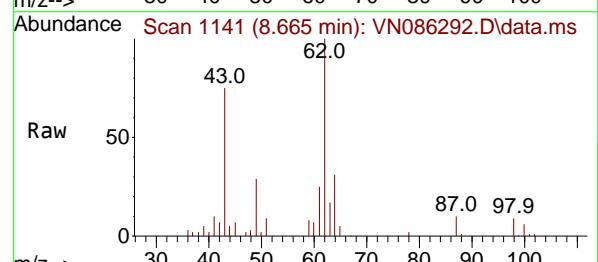
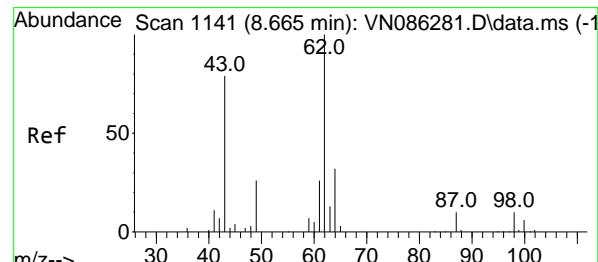
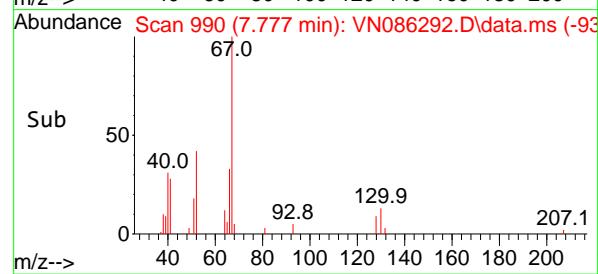
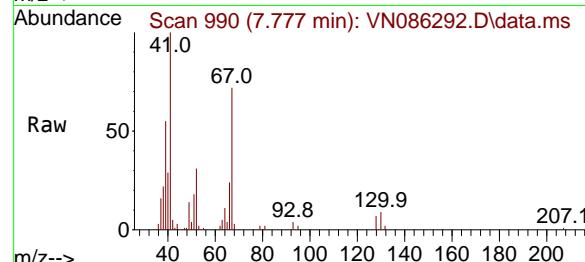
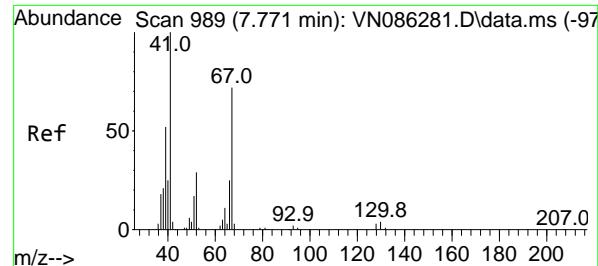
Tgt Ion: 78 Resp: 239253

Ion Ratio Lower Upper

78 100

77 23.2 19.4 29.2





#41

Methacrylonitrile

Concen: 20.295 ug/l

RT: 7.777 min Scan# 9

Delta R.T. 0.006 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

Instrument :

MSVOA_N

ClientSampleId :

VN0416WBSD01

Tgt Ion: 41 Resp: 46759

Ion Ratio Lower Upper

41 100

39 54.4 43.0 64.4

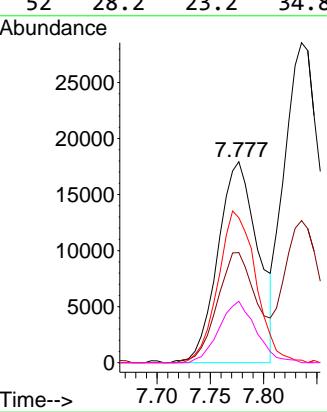
67 71.4 58.8 88.2

52 28.2 23.2 34.8

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#42

1,2-Dichloroethane

Concen: 19.857 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. -0.000 min

Lab File: VN086292.D

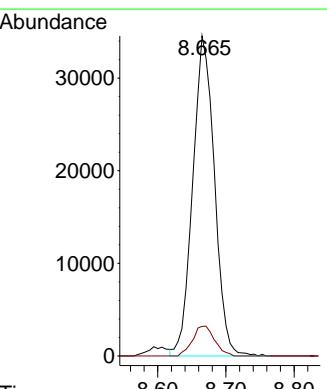
Acq: 16 Apr 2025 13:14

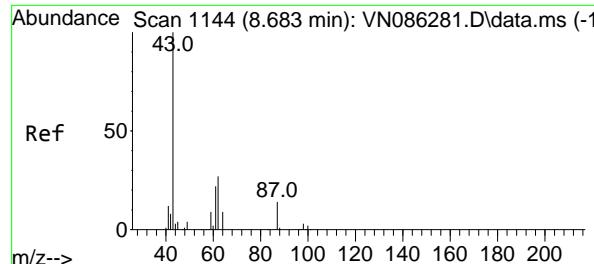
Tgt Ion: 62 Resp: 76607

Ion Ratio Lower Upper

62 100

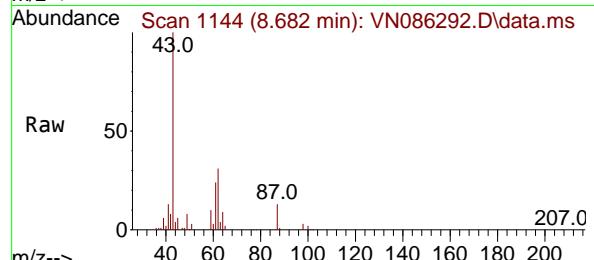
98 9.5 0.0 19.2





#43
Isopropyl Acetate
Concen: 20.057 ug/l
RT: 8.682 min Scan# 1
Delta R.T. -0.001 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

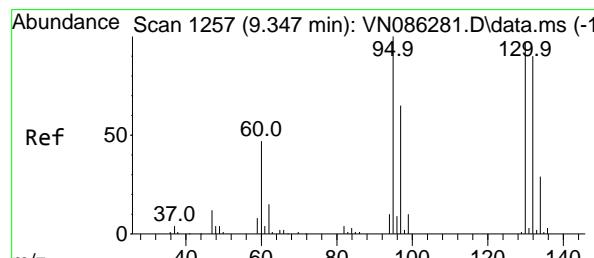
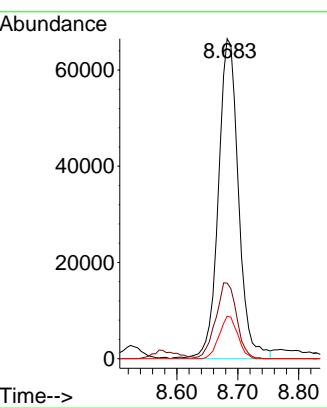
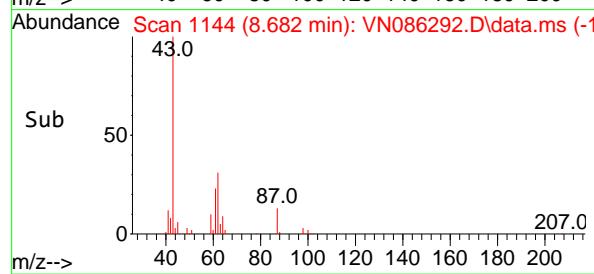
Instrument : MSVOA_N
ClientSampleId : VN0416WBSD01



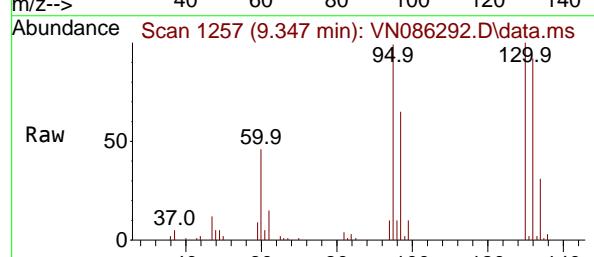
Tgt Ion: 43 Resp: 152961
Ion Ratio Lower Upper
43 100
61 24.7 20.5 30.7
87 12.2 10.5 15.7

Manual Integrations APPROVED

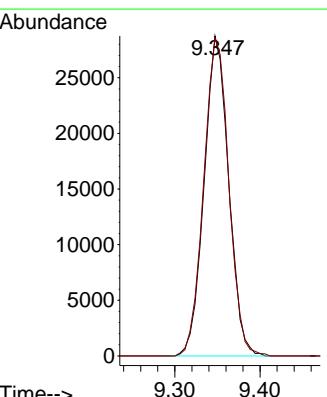
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

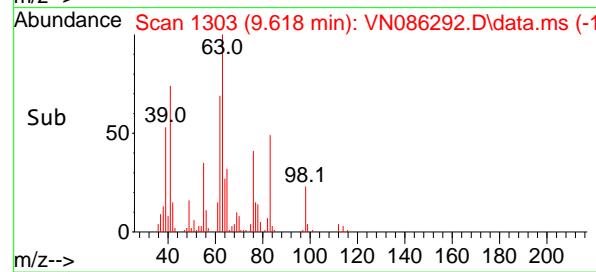
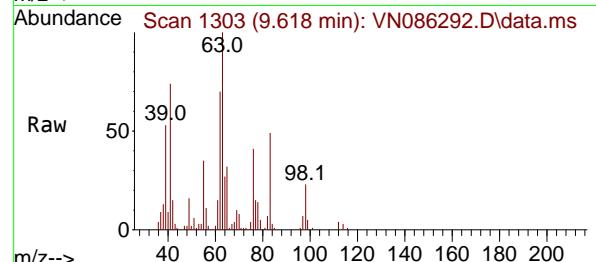
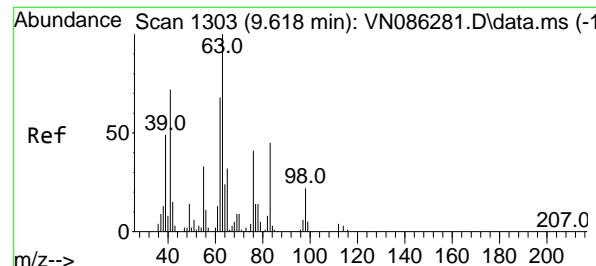


#44
Trichloroethene
Concen: 20.014 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14



Tgt Ion:130 Resp: 57388
Ion Ratio Lower Upper
130 100
95 99.3 0.0 207.2





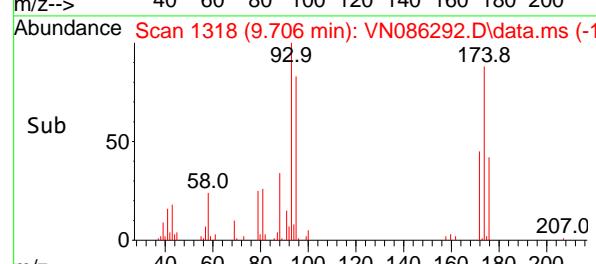
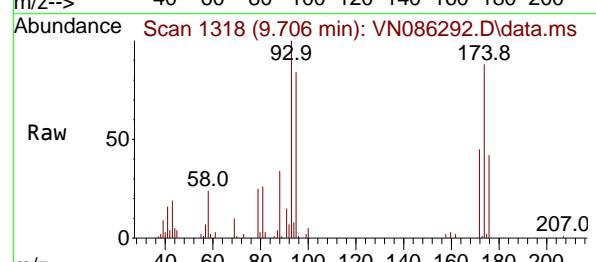
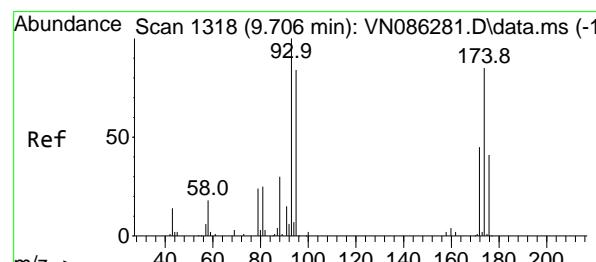
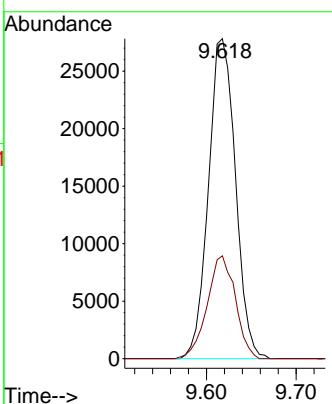
#45

1,2-Dichloropropane
Concen: 19.636 ug/l
RT: 9.618 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

Manual Integrations APPROVED

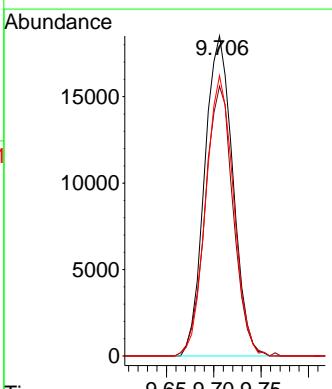
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

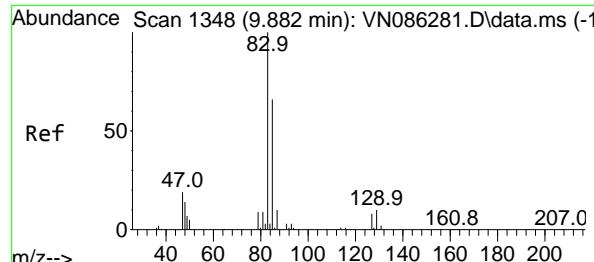


#46

Dibromomethane
Concen: 20.335 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

Tgt Ion: 93 Resp: 38369
Ion Ratio Lower Upper
93 100
95 84.1 66.2 99.4
174 86.1 67.8 101.6





#47

Bromodichloromethane

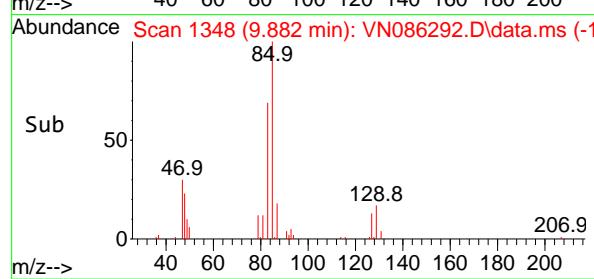
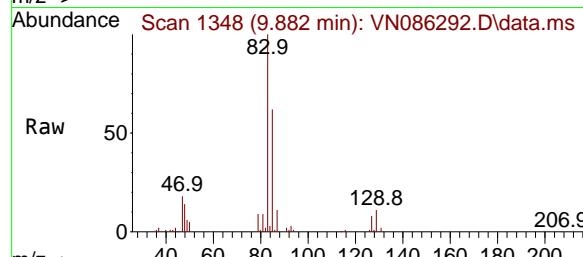
Concen: 19.795 ug/l

RT: 9.882 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14



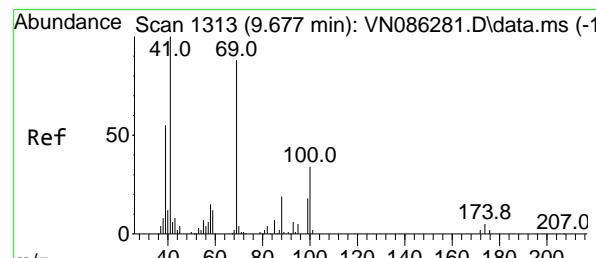
Tgt Ion: 83 Resp: 80669

Ion Ratio Lower Upper

83 100

85 62.5 52.6 78.8

127 8.4 6.1 9.1

**Manual Integrations
APPROVED**
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

#48

Methyl methacrylate

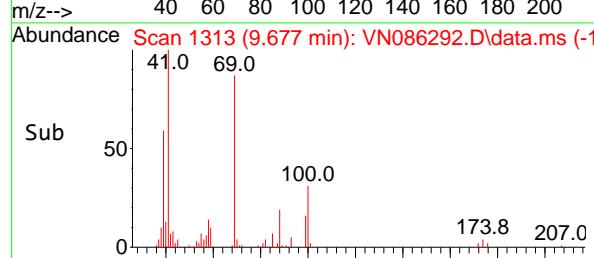
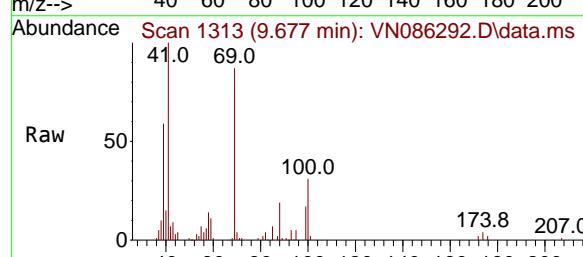
Concen: 18.877 ug/l

RT: 9.677 min Scan# 1313

Delta R.T. -0.000 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14



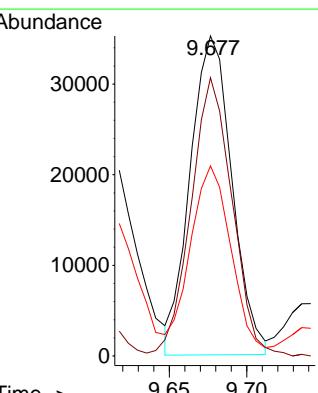
Tgt Ion: 41 Resp: 65898

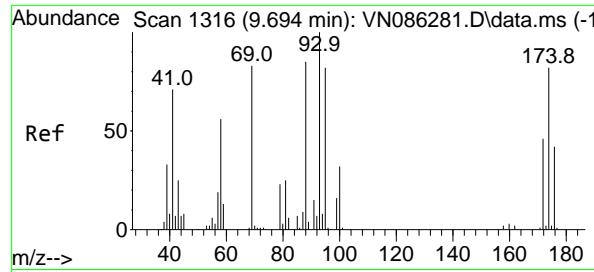
Ion Ratio Lower Upper

41 100

69 86.1 68.2 102.2

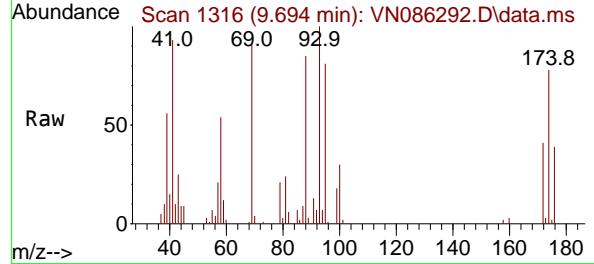
39 58.9 45.2 67.8





#49
1,4-Dioxane
Concen: 405.872 ug/l
RT: 9.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

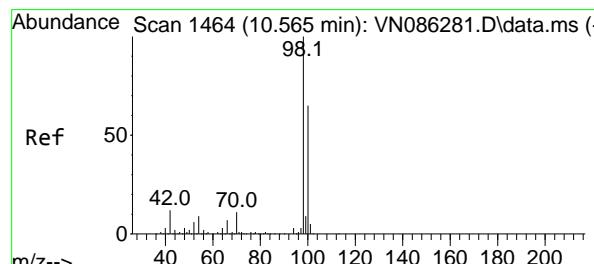
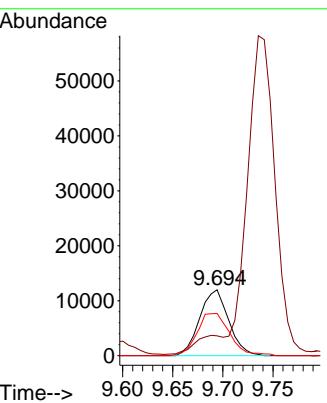
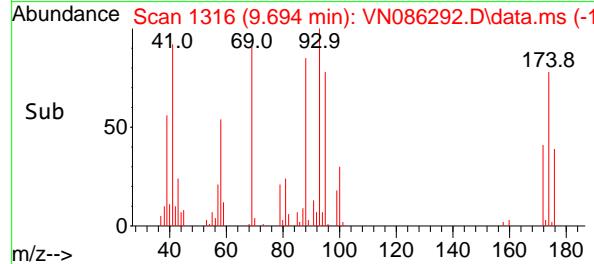
Instrument : MSVOA_N
ClientSampleId : VN0416WBSD01



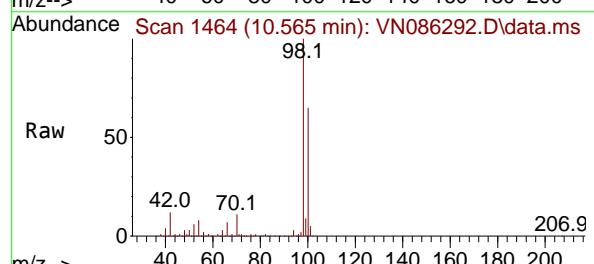
Tgt Ion: 88 Resp: 24101
Ion Ratio Lower Upper
88 100
43 28.5 23.8 35.8
58 72.4 57.4 86.2

Manual Integrations APPROVED

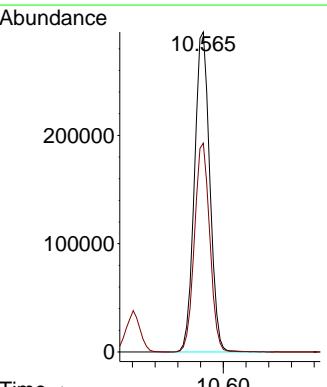
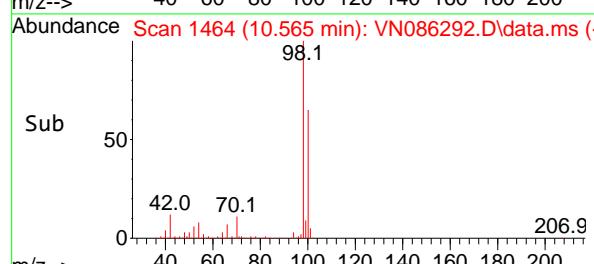
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

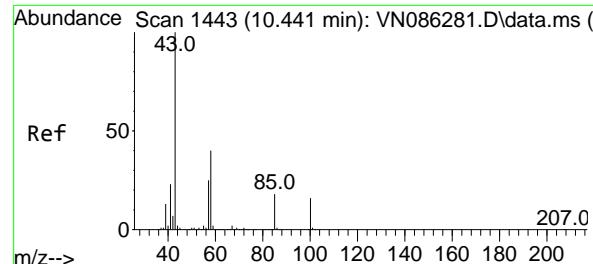


#50
Toluene-d8
Concen: 54.632 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

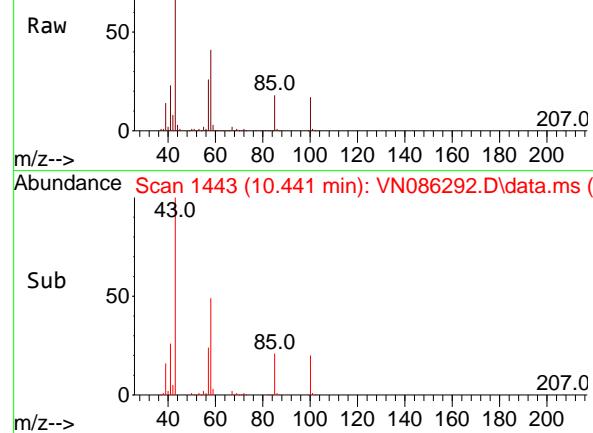


Tgt Ion: 98 Resp: 551979
Ion Ratio Lower Upper
98 100
100 65.2 52.5 78.7

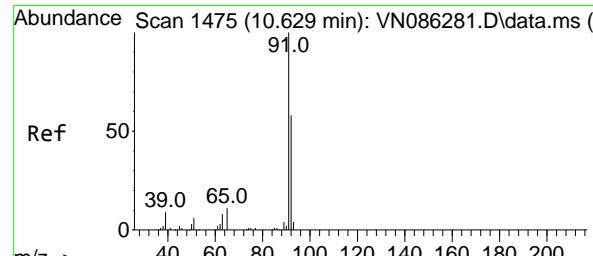
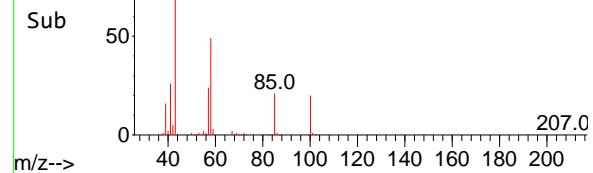




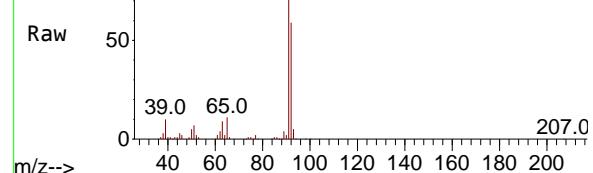
Abundance Scan 1443 (10.441 min): VN086292.D\data.ms (-)



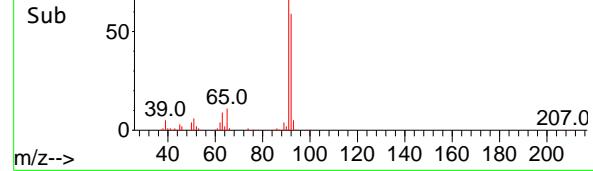
Abundance Scan 1443 (10.441 min): VN086292.D\data.ms (-)



Abundance Scan 1475 (10.629 min): VN086292.D\data.ms (-)



Abundance Scan 1475 (10.629 min): VN086292.D\data.ms (-)



#51

4-Methyl-2-Pentanone

Concen: 100.180 ug/l

RT: 10.441 min Scan# 1443

Delta R.T. -0.000 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

Instrument:

MSVOA_N

ClientSampleId :

VN0416WBSD01

Tgt Ion: 43 Resp: 40780

Ion Ratio Lower Upper

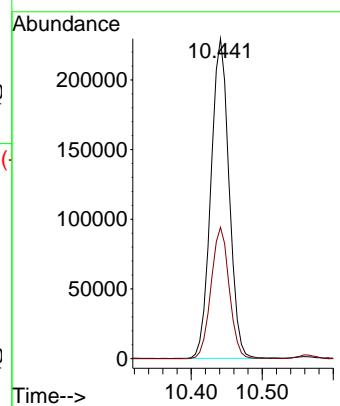
43 100

58 41.1 32.2 48.4

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



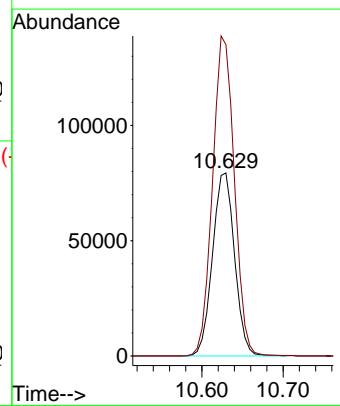
#52
Toluene
Concen: 19.835 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

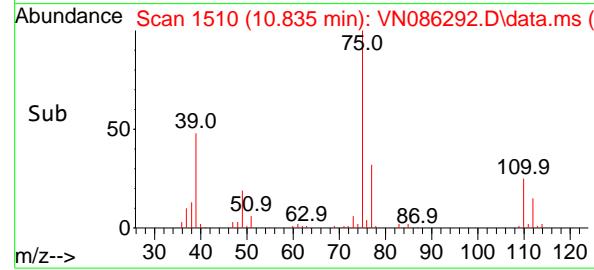
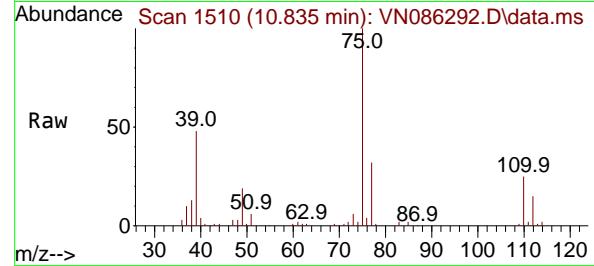
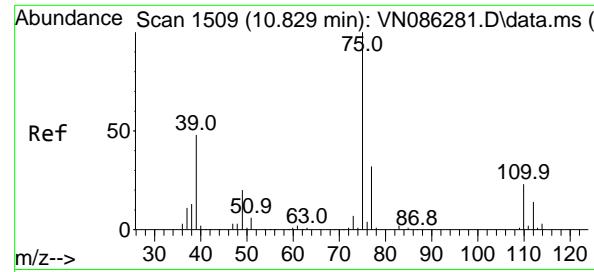
Tgt Ion: 92 Resp: 149726

Ion Ratio Lower Upper

92 100

91 173.0 137.3 205.9





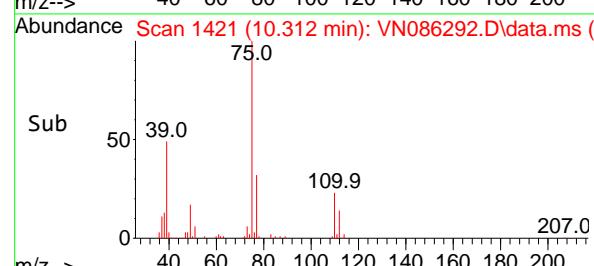
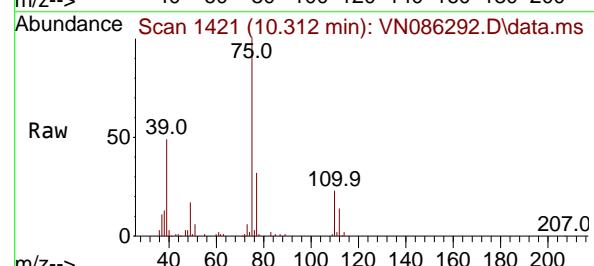
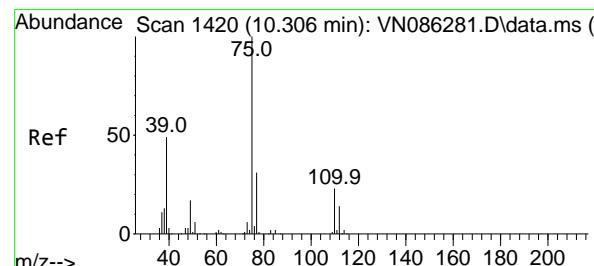
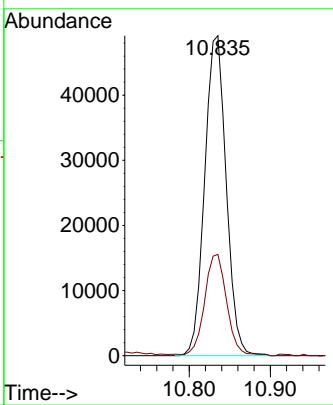
#53

t-1,3-Dichloropropene
Concen: 19.871 ug/l
RT: 10.835 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

Manual Integrations APPROVED

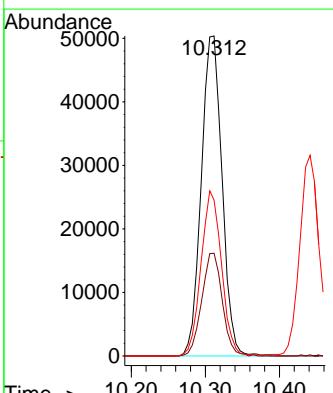
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#54

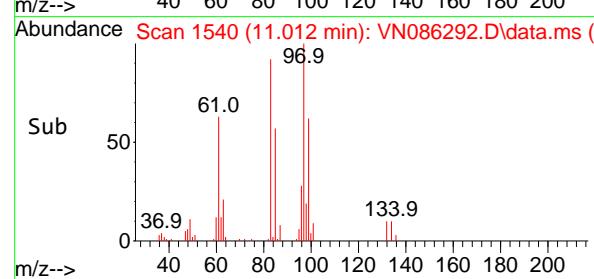
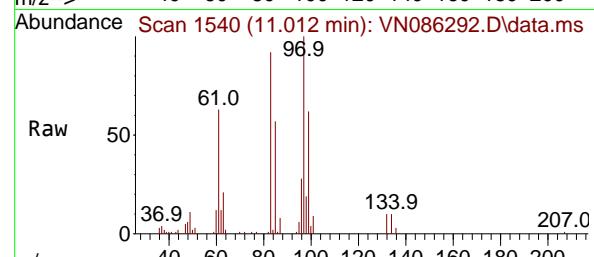
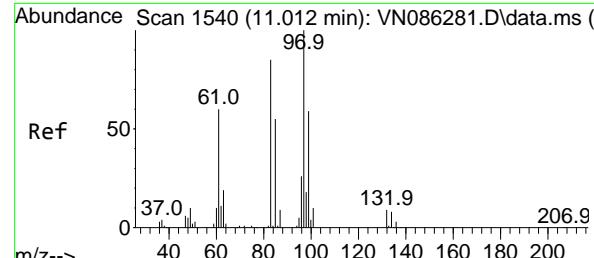
cis-1,3-Dichloropropene
Concen: 19.610 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.006 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

Tgt Ion: 75 Resp: 97983
Ion Ratio Lower Upper
75 100
77 32.1 25.2 37.8
39 48.7 39.3 58.9



#55

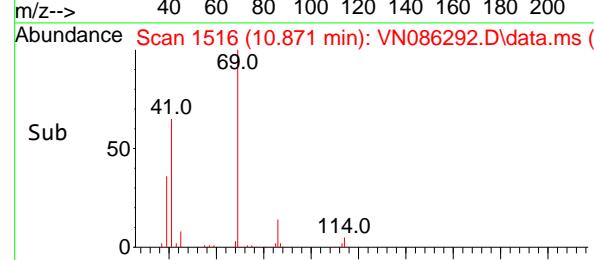
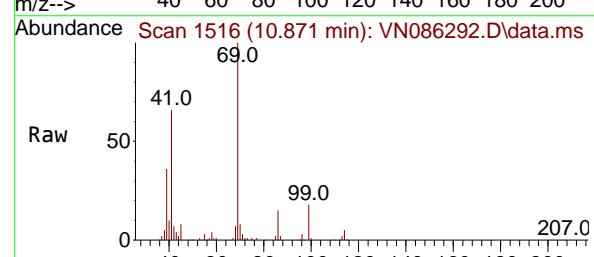
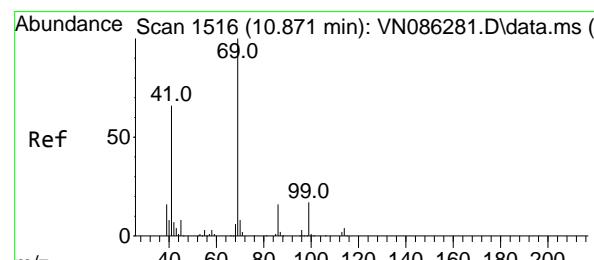
1,1,2-Trichloroethane
 Concen: 19.663 ug/l
 RT: 11.012 min Scan# 1
 Delta R.T. -0.000 min
 Lab File: VN086292.D
 Acq: 16 Apr 2025 13:14



Instrument :
 MSVOA_N
 ClientSampleId :
 VN0416WBSD01

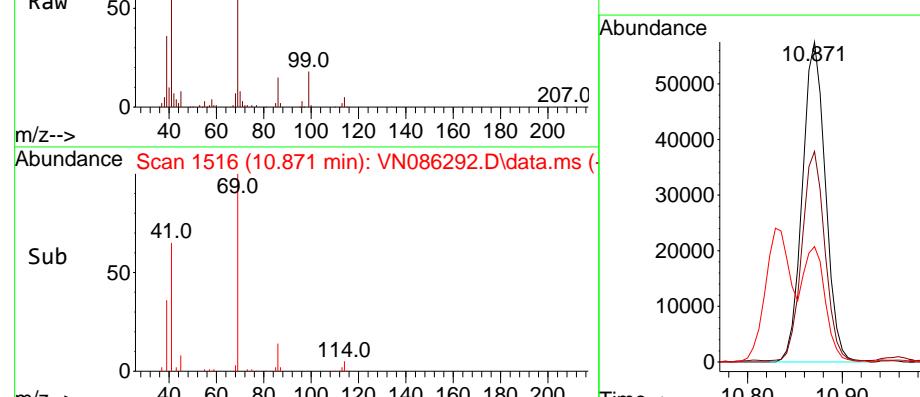
Manual Integrations APPROVED

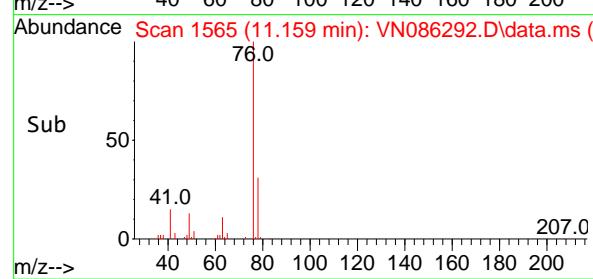
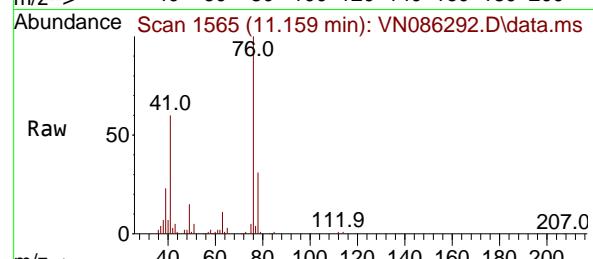
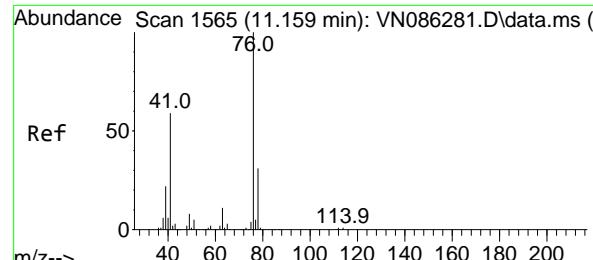
Reviewed By :John Carlone 04/17/2025
 Supervised By :Mahesh Dadoda 04/17/2025



#56
 Ethyl methacrylate
 Concen: 19.466 ug/l
 RT: 10.871 min Scan# 1516
 Delta R.T. -0.000 min
 Lab File: VN086292.D
 Acq: 16 Apr 2025 13:14

Tgt Ion: 69 Resp: 97183
 Ion Ratio Lower Upper
 69 100
 41 65.4 51.7 77.5
 39 34.2 26.3 39.5





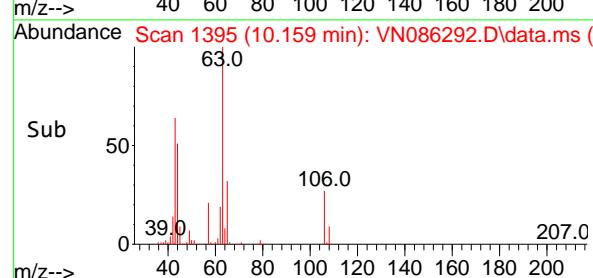
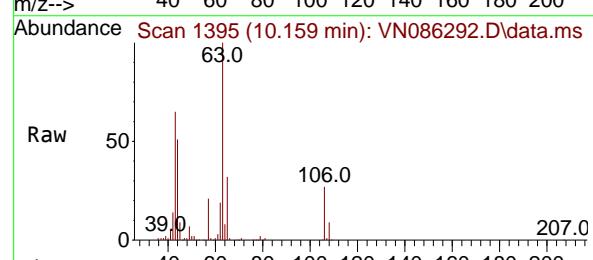
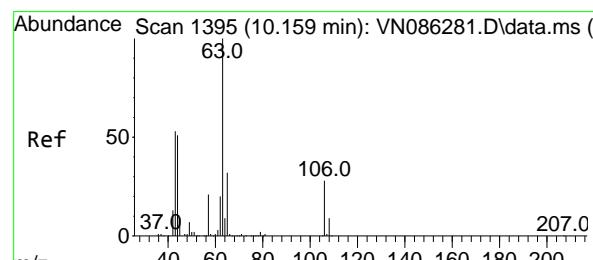
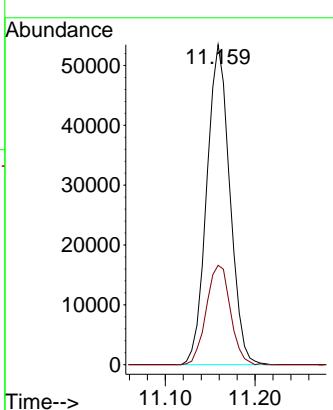
#57

1,3-Dichloropropane
Concen: 19.799 ug/l
RT: 11.159 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

Manual Integrations APPROVED

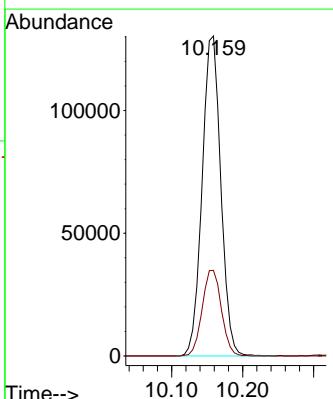
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

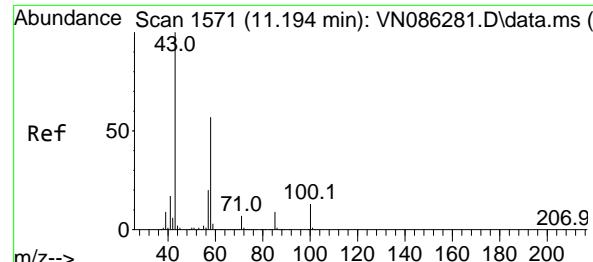


#58

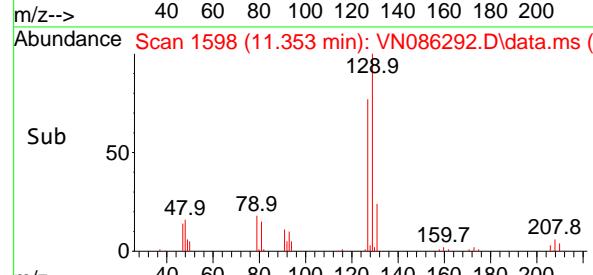
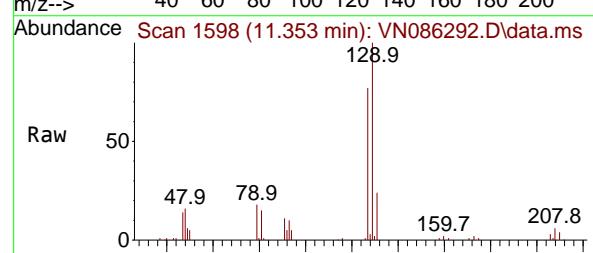
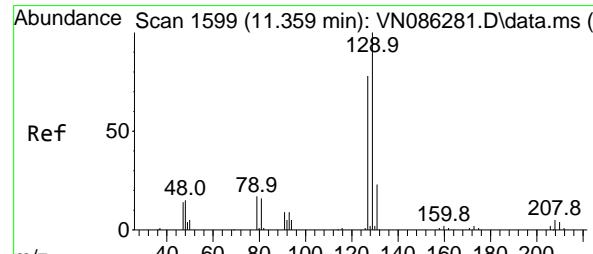
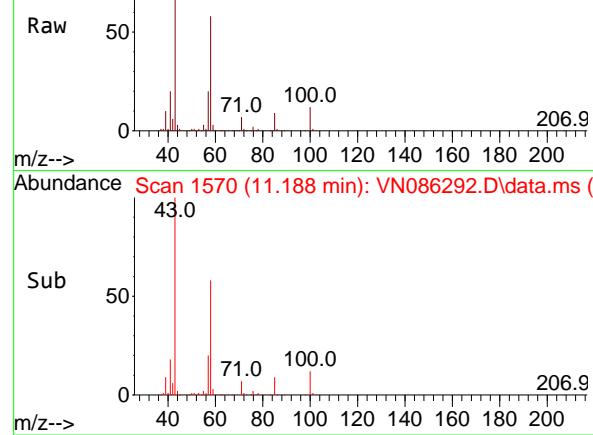
2-Chloroethyl Vinyl ether
Concen: 100.539 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

Tgt Ion: 63 Resp: 238231
Ion Ratio Lower Upper
63 100
106 27.5 22.2 33.2





Abundance Scan 1570 (11.188 min): VN086292.D\data.ms



#59

2-Hexanone

Concen: 99.823 ug/l

RT: 11.188 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

Instrument:

MSVOA_N

ClientSampleId :

VN0416WBSD01

Tgt Ion: 43 Resp: 30140

Ion Ratio Lower Upper

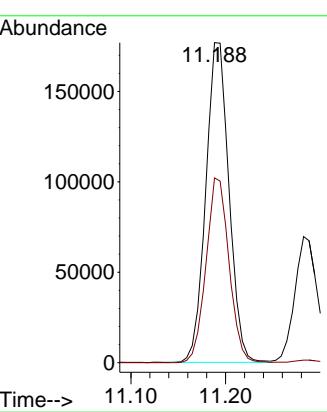
43 100

58 57.3 28.3 85.0

Manual Integrations**APPROVED**

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#60

Dibromochloromethane

Concen: 20.114 ug/l

RT: 11.353 min Scan# 1598

Delta R.T. -0.006 min

Lab File: VN086292.D

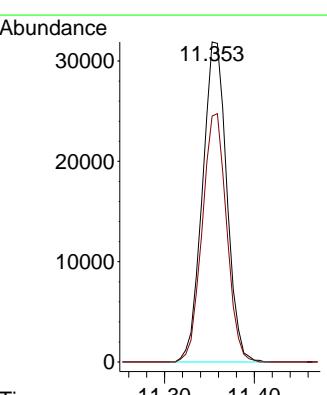
Acq: 16 Apr 2025 13:14

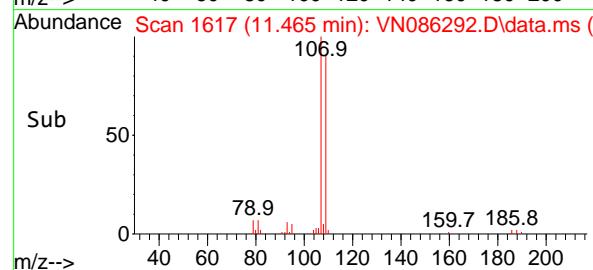
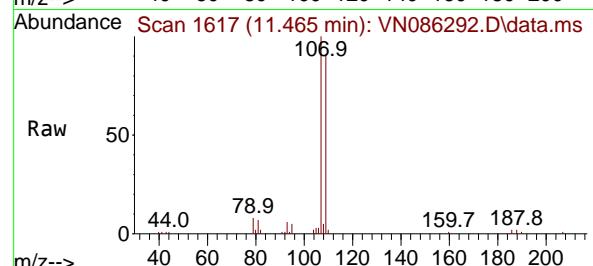
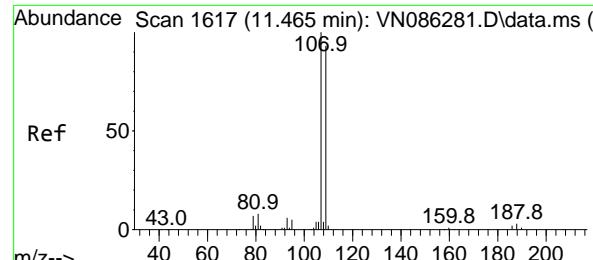
Tgt Ion:129 Resp: 59988

Ion Ratio Lower Upper

129 100

127 77.6 38.7 116.1





#61

1,2-Dibromoethane

Concen: 20.249 ug/l

RT: 11.465 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086292.D

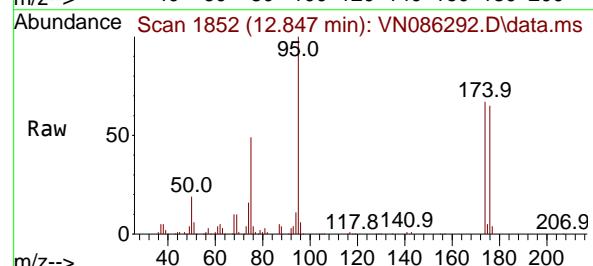
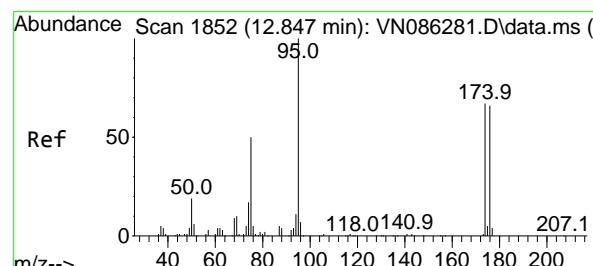
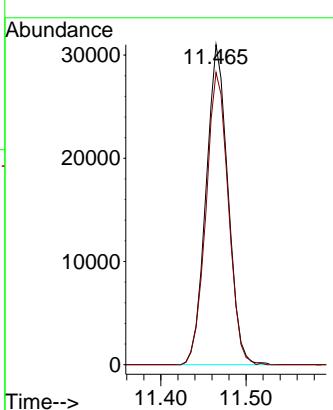
Acq: 16 Apr 2025 13:14

Instrument:

MSVOA_N

ClientSampleId :

VN0416WBSD01

**Manual Integrations
APPROVED**
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

#62

4-Bromofluorobenzene

Concen: 53.558 ug/l

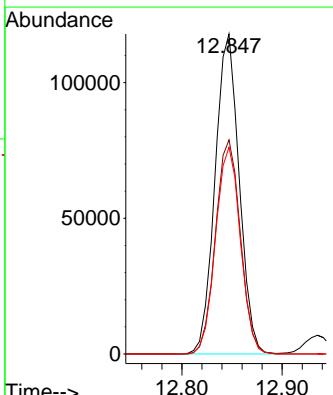
RT: 12.847 min Scan# 1852

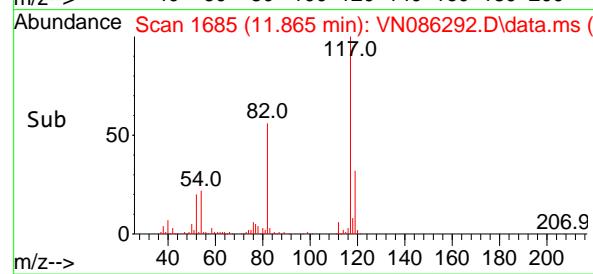
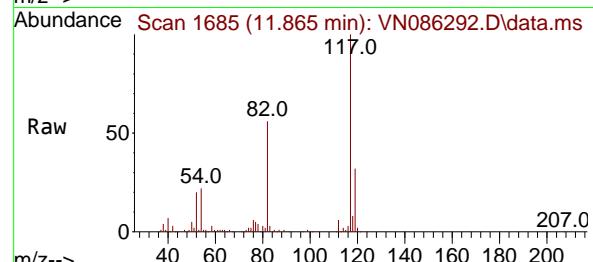
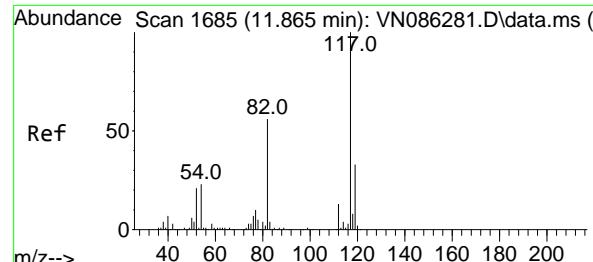
Delta R.T. -0.000 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

| Tgt | Ion | Ion Ratio | Resp: | Lower | Upper |
|-----|------|-----------|--------|-------|-------|
| 95 | 100 | | | | |
| 174 | 68.6 | 0.0 | 197374 | 133.4 | |
| 176 | 66.2 | 0.0 | | 129.2 | |





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

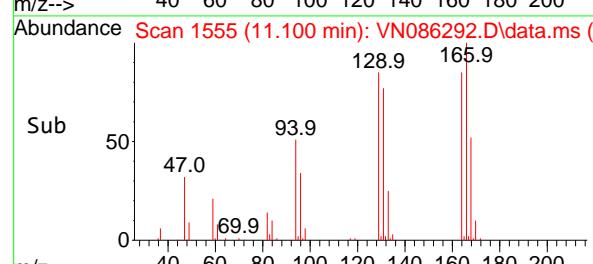
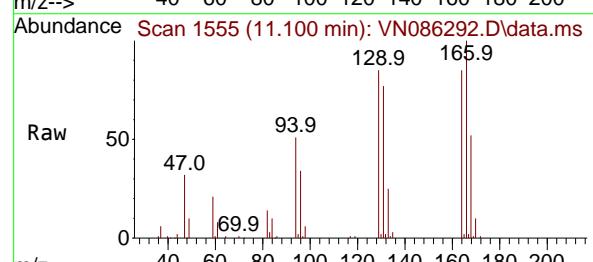
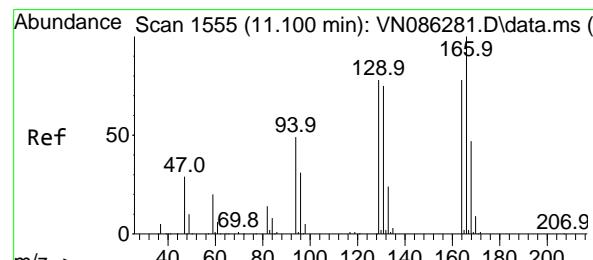
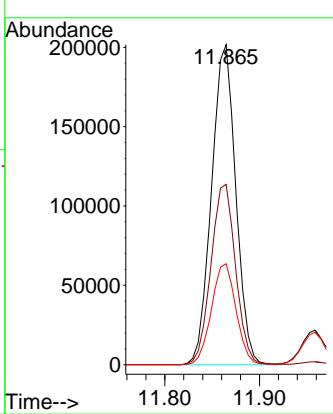
Instrument:

MSVOA_N

ClientSampleId :

VN0416WBSD01

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/17/2025
 Supervised By :Mahesh Dadoda 04/17/2025


#64

Tetrachloroethene

Concen: 20.560 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. -0.000 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

Tgt Ion:164 Resp: 56794

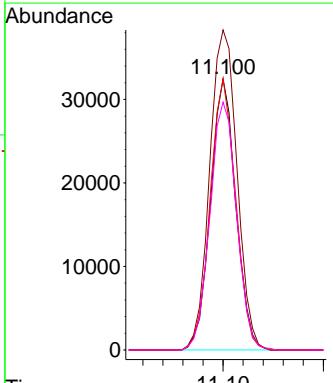
Ion Ratio Lower Upper

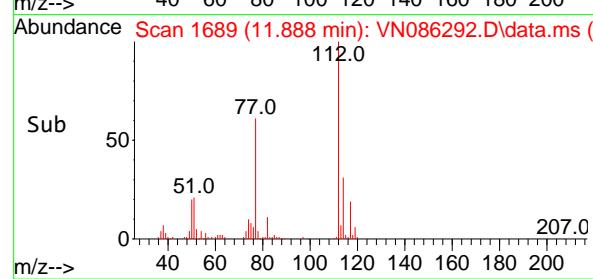
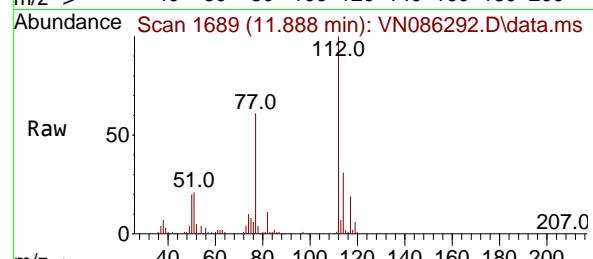
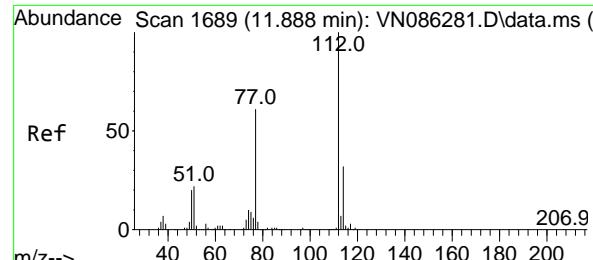
164 100

166 118.0 103.0 154.4

129 100.0 80.1 120.1

131 91.4 77.2 115.8



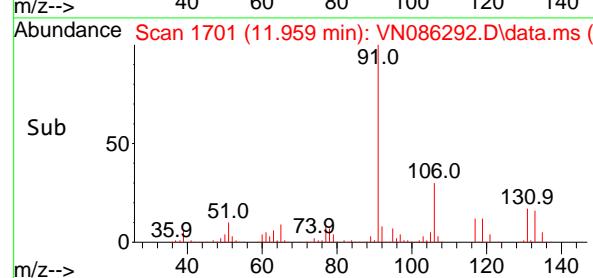
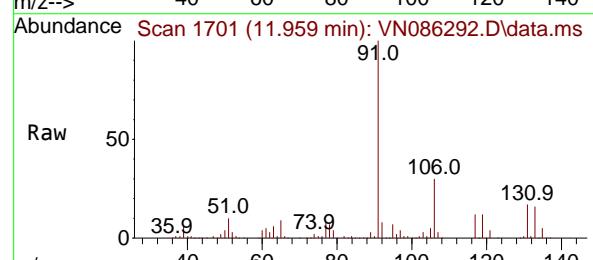
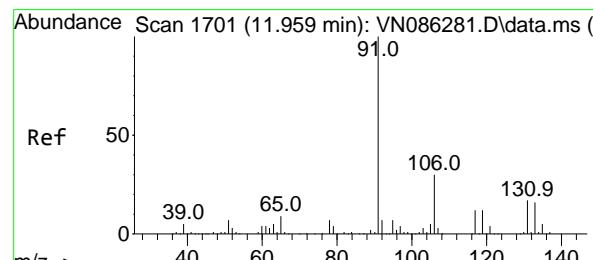
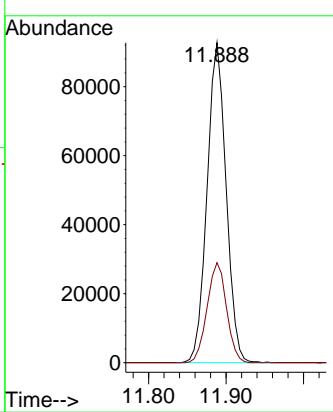


#65
Chlorobenzene
Concen: 19.747 ug/l
RT: 11.888 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

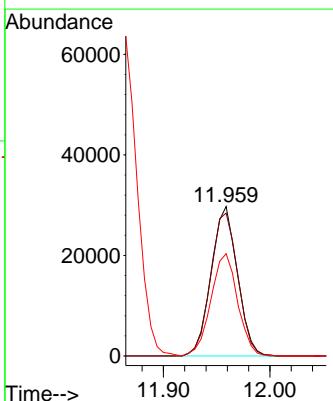
Manual Integrations APPROVED

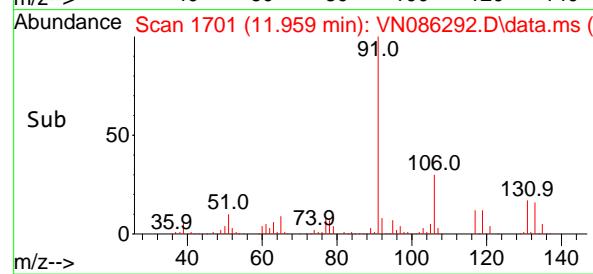
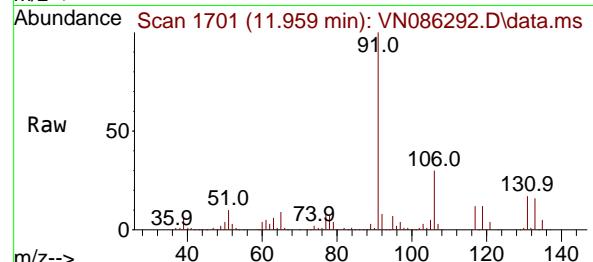
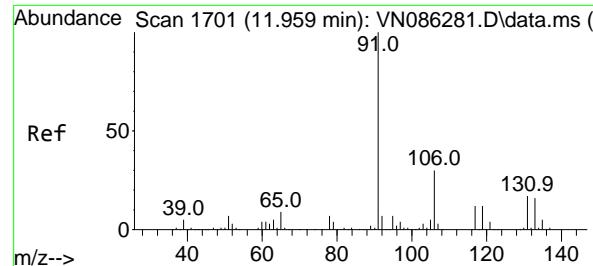
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 19.288 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

Tgt Ion:131 Resp: 50996
Ion Ratio Lower Upper
131 100
133 98.7 47.1 141.3
119 69.4 33.8 101.4





#67

Ethyl Benzene

Concen: 19.853 ug/l

RT: 11.959 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

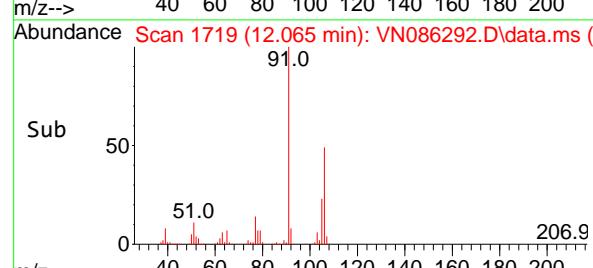
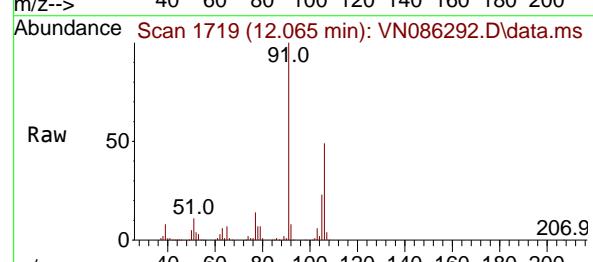
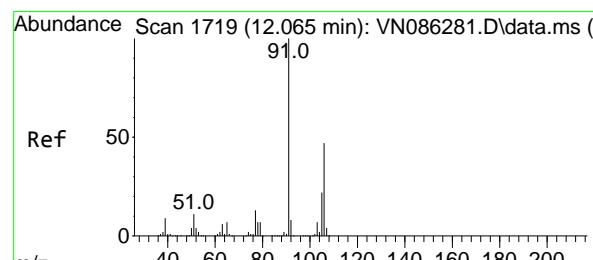
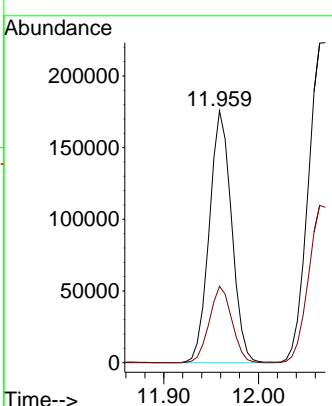
Instrument:

MSVOA_N

ClientSampleId :

VN0416WBSD01

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/17/2025
 Supervised By :Mahesh Dadoda 04/17/2025


#68

m/p-Xylenes

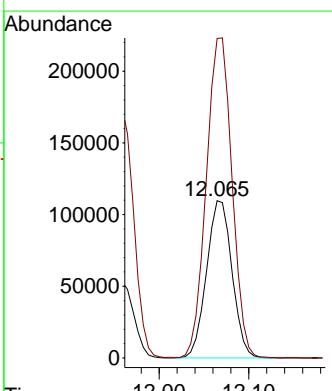
Concen: 39.843 ug/l

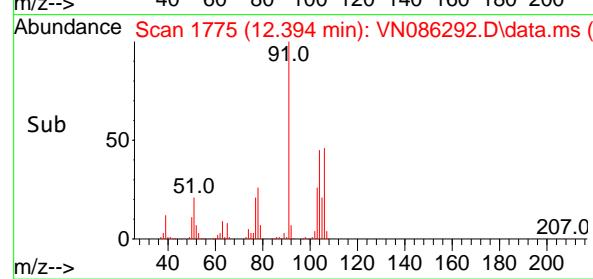
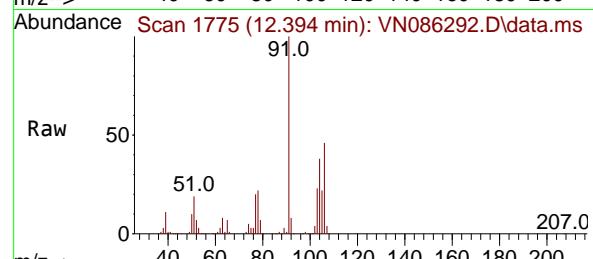
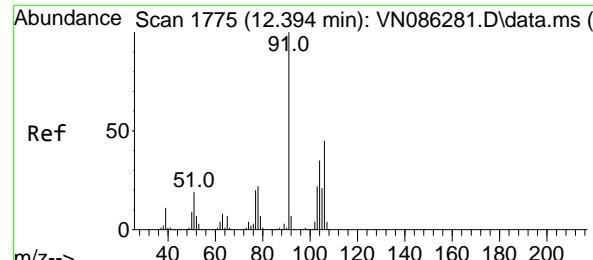
RT: 12.065 min Scan# 1719

Delta R.T. -0.000 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

 Tgt Ion:106 Resp: 215908
 Ion Ratio Lower Upper
 106 100
 91 206.2 166.5 249.7


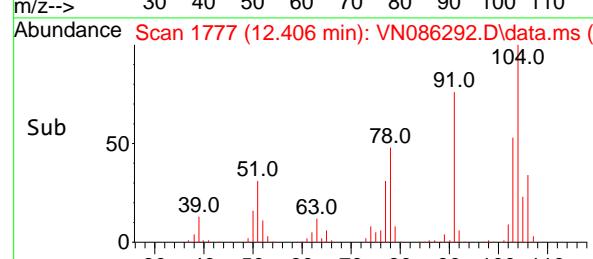
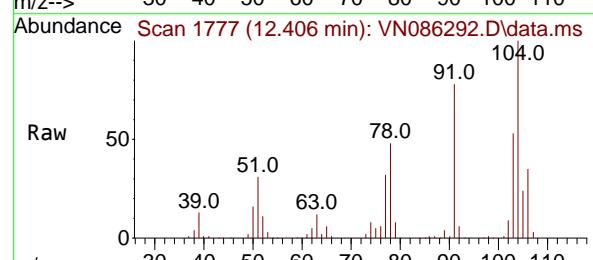
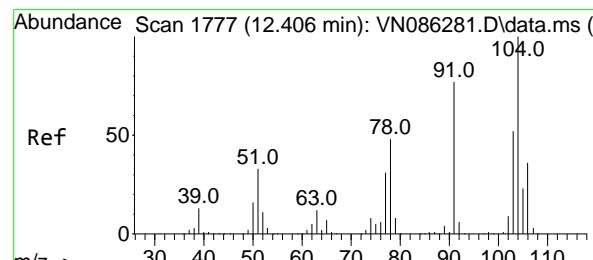
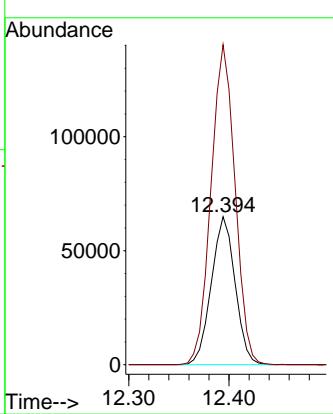


#69
o-Xylene
Concen: 19.899 ug/l
RT: 12.394 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

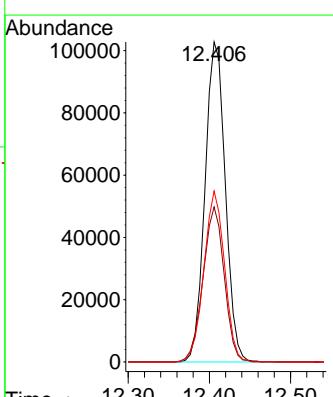
Manual Integrations APPROVED

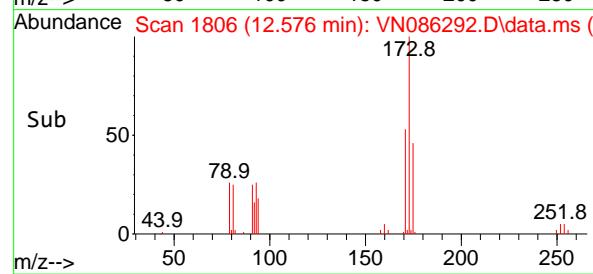
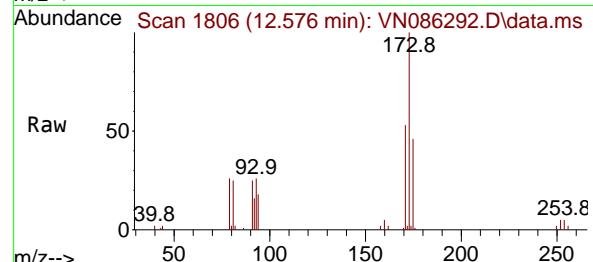
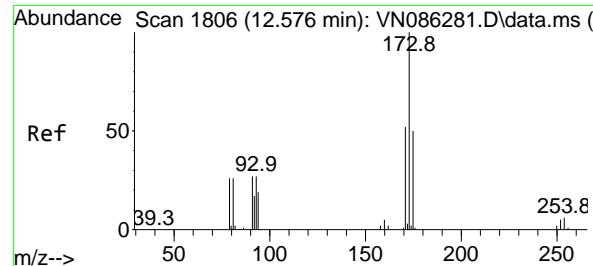
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#70
Styrene
Concen: 19.977 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

Tgt Ion:104 Resp: 178378
Ion Ratio Lower Upper
104 100
78 50.6 40.6 61.0
103 54.5 43.6 65.4





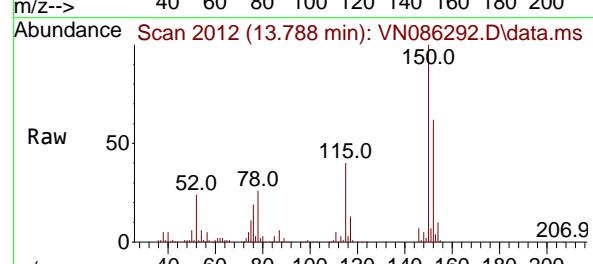
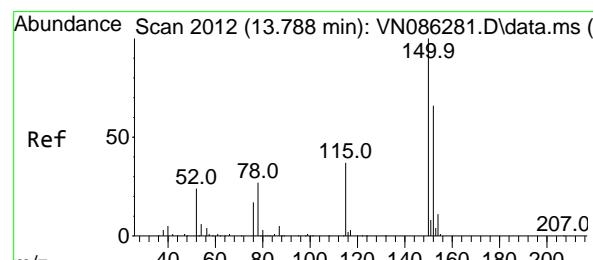
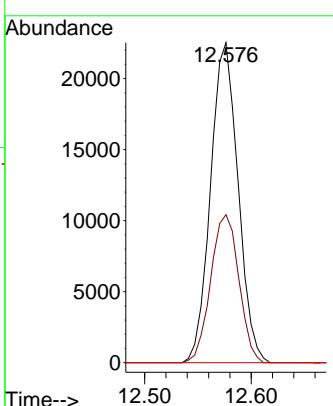
#71

Bromoform
Concen: 20.276 ug/l
RT: 12.576 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

Manual Integrations APPROVED

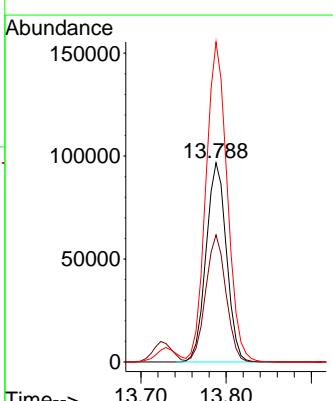
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

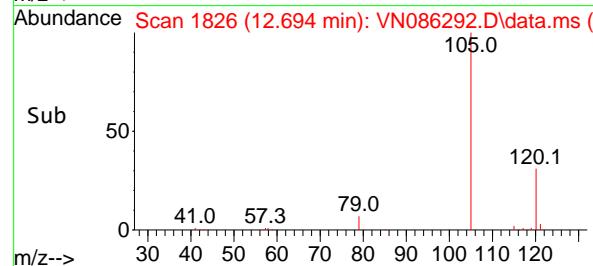
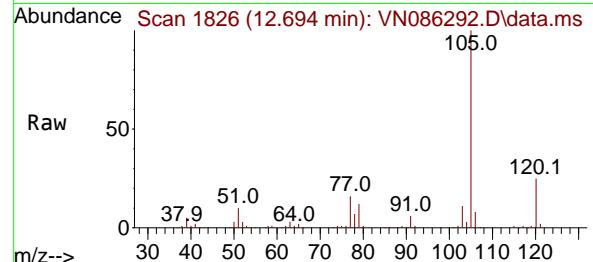
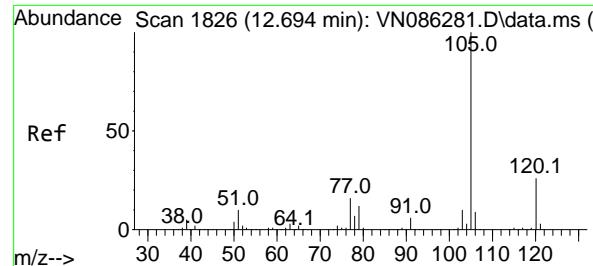


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

Tgt Ion:152 Resp: 160957
Ion Ratio Lower Upper
152 100
115 63.4 31.9 95.9
150 167.6 0.0 352.0





#73

Isopropylbenzene

Concen: 19.972 ug/l

RT: 12.694 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086292.D

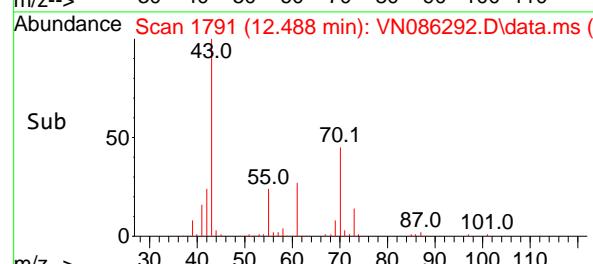
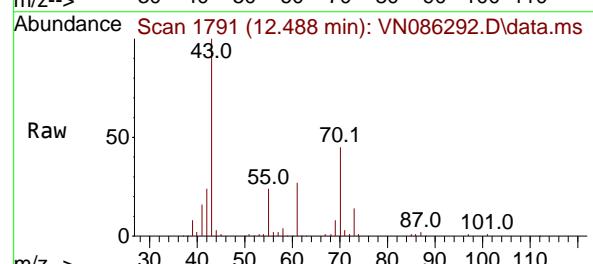
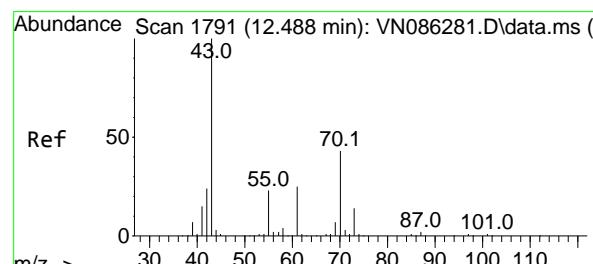
Acq: 16 Apr 2025 13:14

Instrument:

MSVOA_N

ClientSampleId :

VN0416WBSD01

**Manual Integrations
APPROVED**
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

#74

N-amyl acetate

Concen: 18.417 ug/l

RT: 12.488 min Scan# 1791

Delta R.T. -0.000 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

Tgt Ion: 43 Resp: 120719

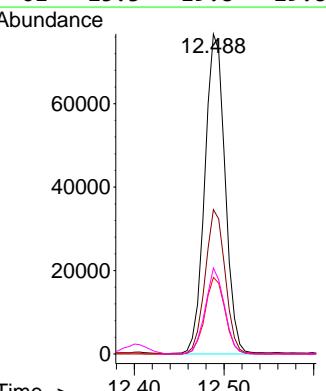
Ion Ratio Lower Upper

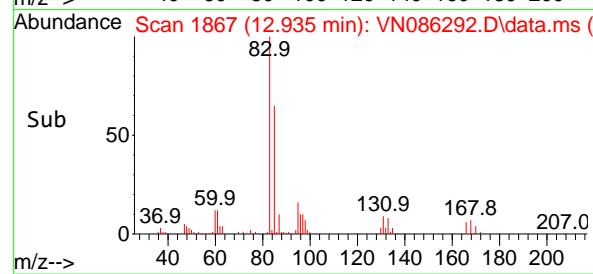
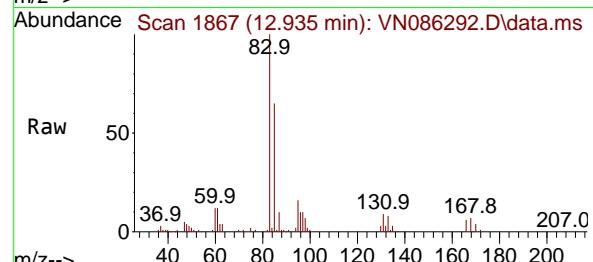
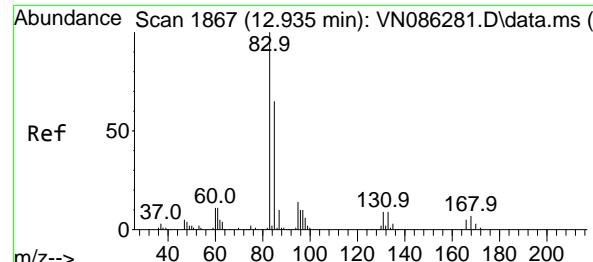
43 100

70 44.2 35.0 52.4

55 23.7 19.0 28.4

61 25.3 19.8 29.8



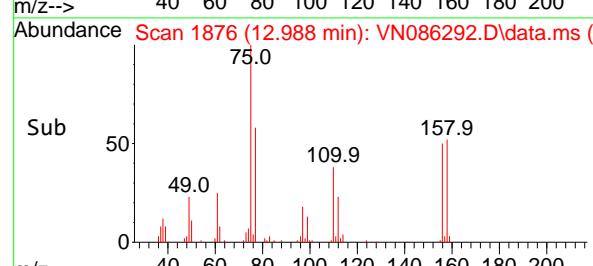
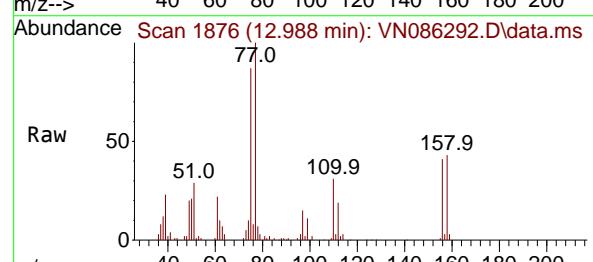
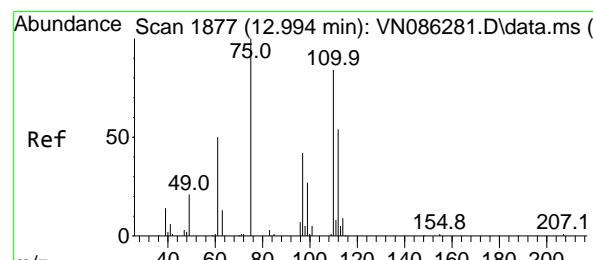
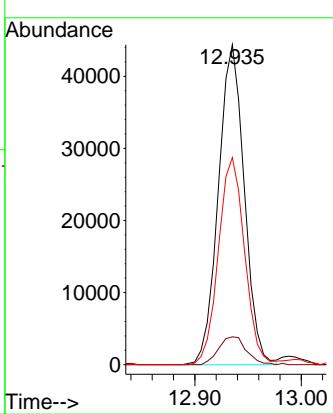


#75
1,1,2,2-Tetrachloroethane
Concen: 19.790 ug/l
RT: 12.935 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

Instrument : MSVOA_N
ClientSampleId : VN0416WBSD01

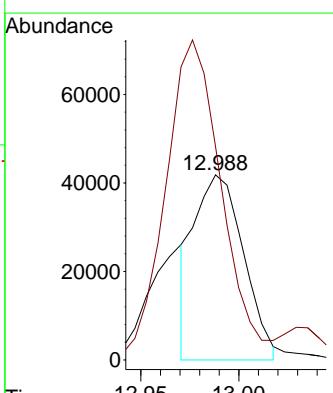
Manual Integrations APPROVED

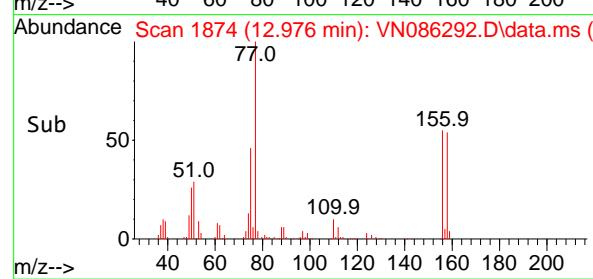
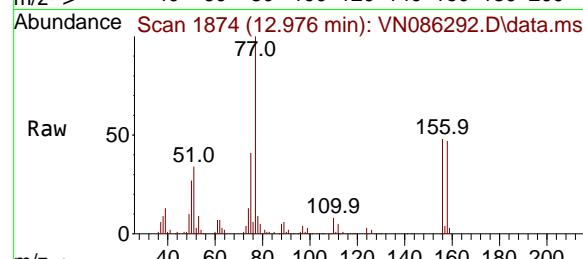
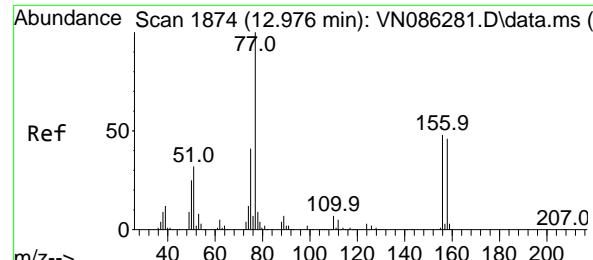
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#76
1,2,3-Trichloropropane
Concen: 19.177 ug/l
RT: 12.988 min Scan# 1876
Delta R.T. -0.006 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

Tgt Ion: 75 Resp: 72842
Ion Ratio Lower Upper
75 100
77 197.4 98.8 296.4





#77

Bromobenzene

Concen: 20.438 ug/l

RT: 12.976 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086292.D

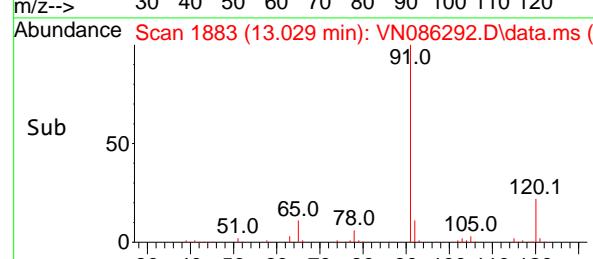
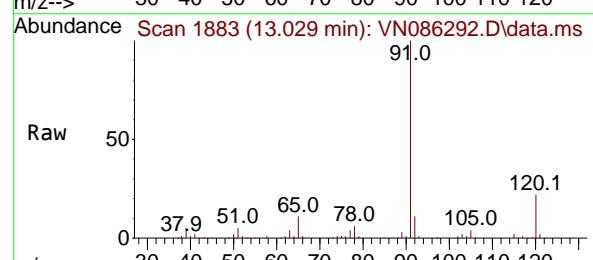
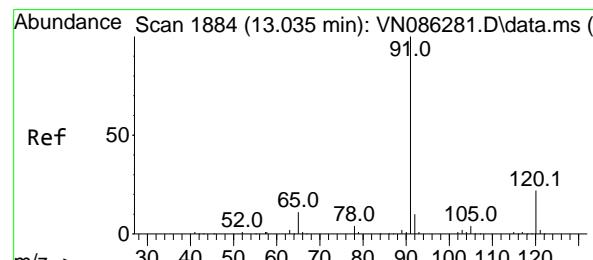
Acq: 16 Apr 2025 13:14

Instrument:

MSVOA_N

ClientSampleId :

VN0416WBSD01

**Manual Integrations
APPROVED**
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

#78

n-propylbenzene

Concen: 19.999 ug/l

RT: 13.029 min Scan# 1883

Delta R.T. -0.006 min

Lab File: VN086292.D

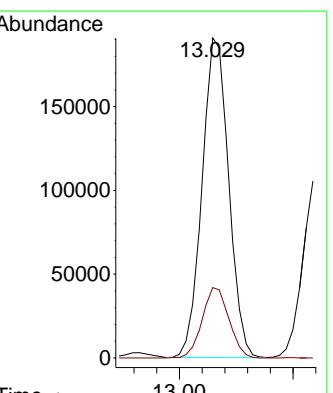
Acq: 16 Apr 2025 13:14

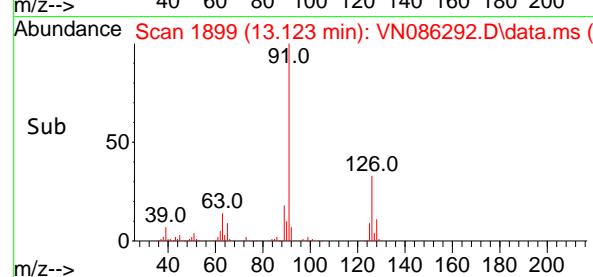
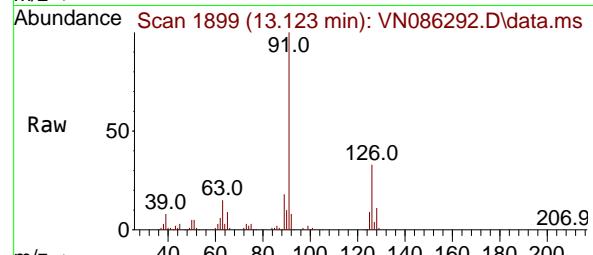
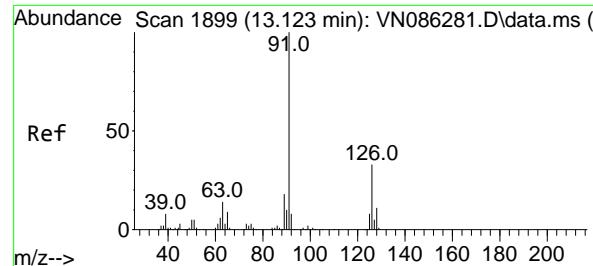
Tgt Ion: 91 Resp: 310295

Ion Ratio Lower Upper

91 100

120 22.1 11.1 33.3





#79

2-Chlorotoluene

Concen: 19.971 ug/l

RT: 13.123 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

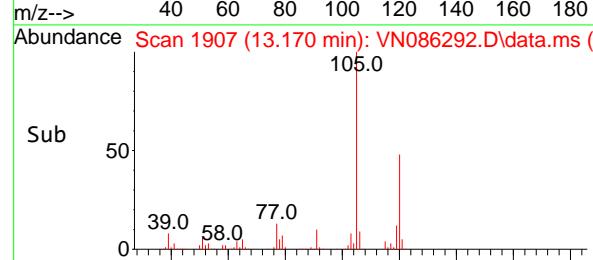
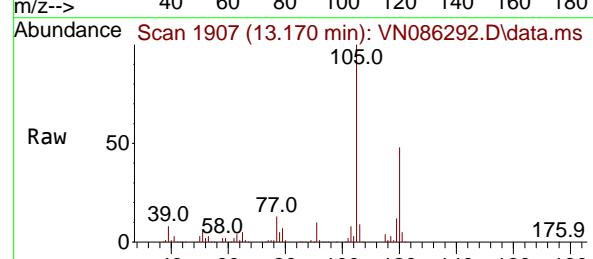
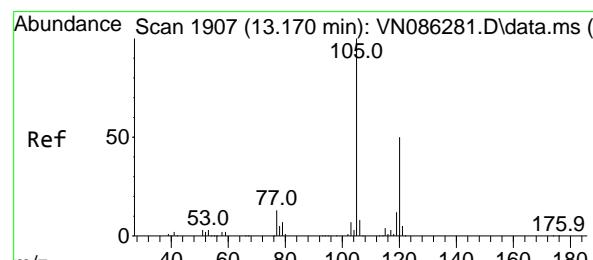
Instrument:

MSVOA_N

ClientSampleId :

VN0416WBSD01

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/17/2025
 Supervised By :Mahesh Dadoda 04/17/2025


#80

1,3,5-Trimethylbenzene

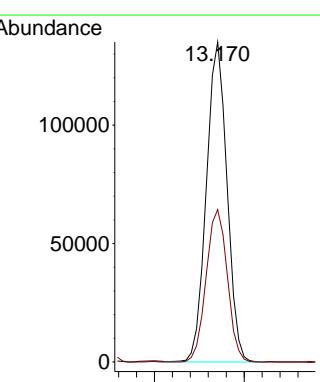
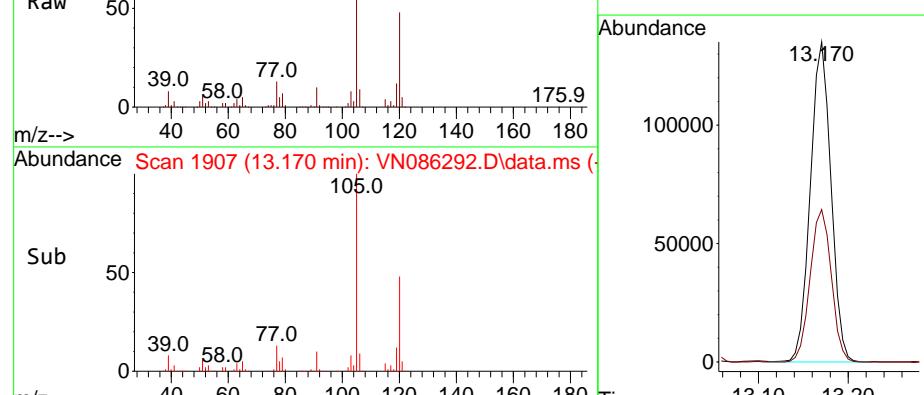
Concen: 19.999 ug/l

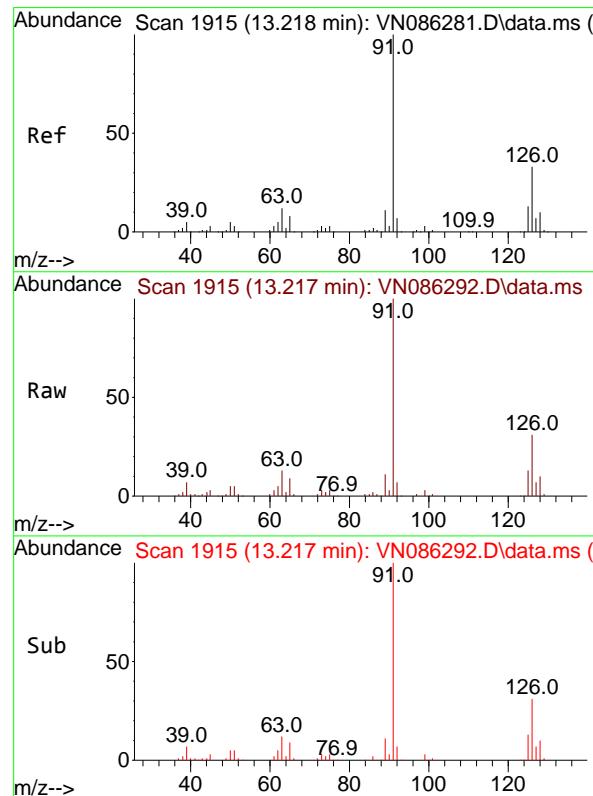
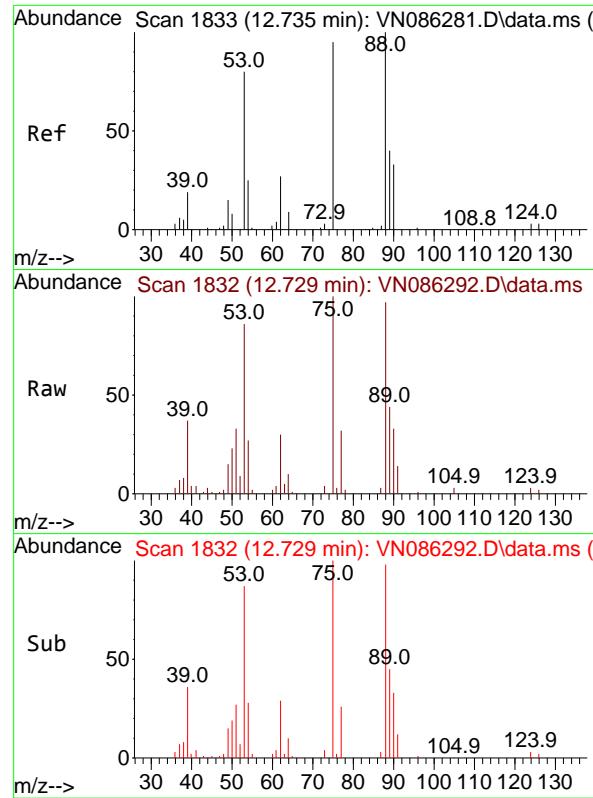
RT: 13.170 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

 Tgt Ion:105 Resp: 215520
 Ion Ratio Lower Upper
 105 100
 120 48.8 24.5 73.5




#81

trans-1,4-Dichloro-2-butene

Concen: 22.426 ug/l

RT: 12.729 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

Instrument:

MSVOA_N

ClientSampleId :

VN0416WBSD01

Tgt Ion: 75 Resp: 35463

Ion Ratio Lower Upper

75 100

53 90.4 79.2 118.8

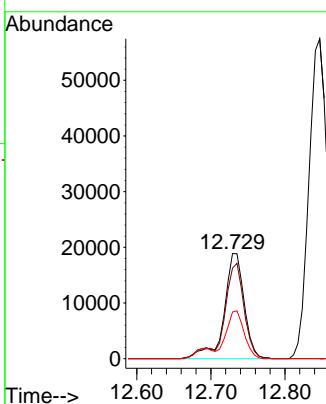
89 40.6 35.7 53.5

Manual Integrations

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Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#82

4-Chlorotoluene

Concen: 20.150 ug/l

RT: 13.217 min Scan# 1915

Delta R.T. -0.000 min

Lab File: VN086292.D

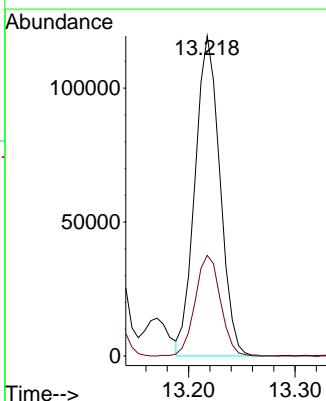
Acq: 16 Apr 2025 13:14

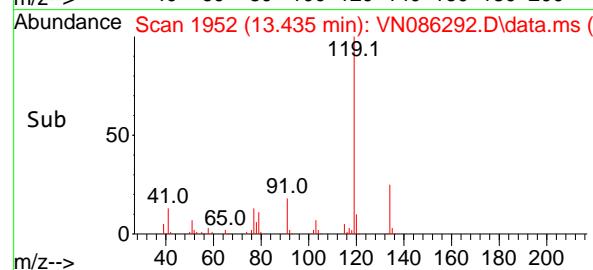
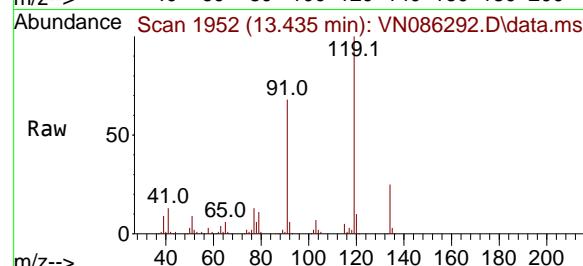
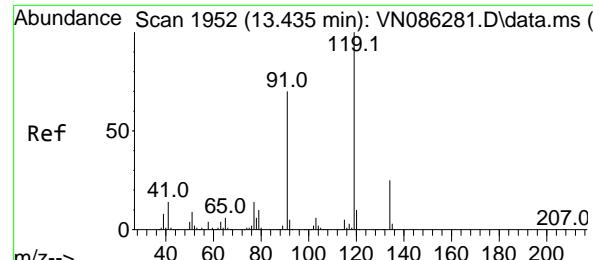
Tgt Ion: 91 Resp: 194326

Ion Ratio Lower Upper

91 100

126 32.0 16.2 48.6





#83

tert-Butylbenzene

Concen: 19.705 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. -0.000 min

Lab File: VN086292.D

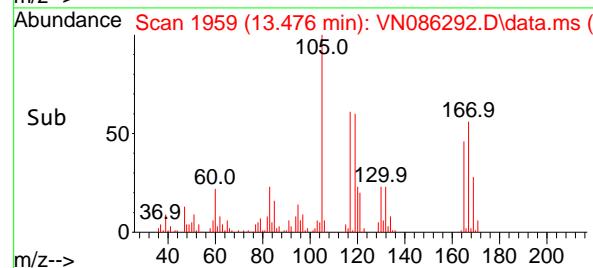
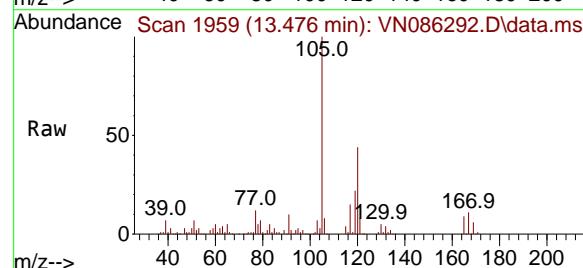
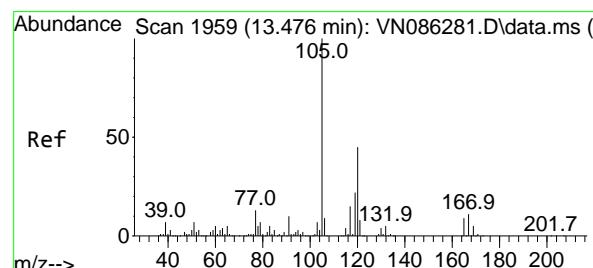
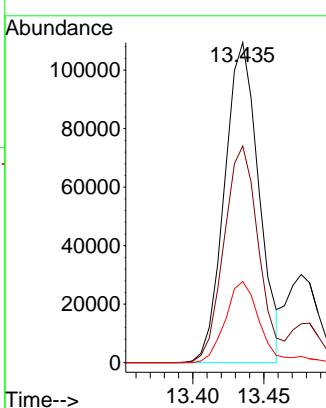
Acq: 16 Apr 2025 13:14

Instrument:

MSVOA_N

ClientSampleId :

VN0416WBSD01

**Manual Integrations
APPROVED**
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

#84

1,2,4-Trimethylbenzene

Concen: 20.014 ug/l

RT: 13.476 min Scan# 1959

Delta R.T. -0.000 min

Lab File: VN086292.D

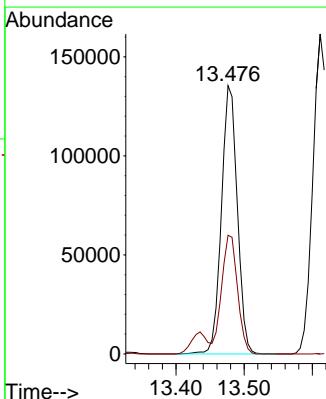
Acq: 16 Apr 2025 13:14

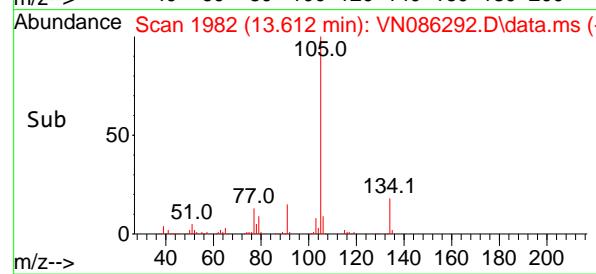
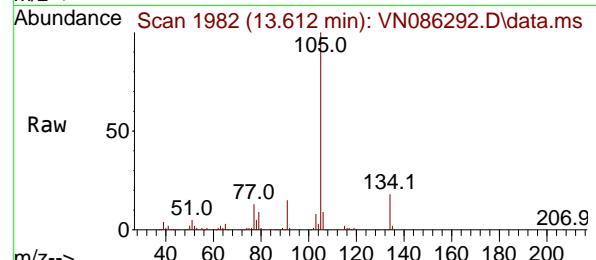
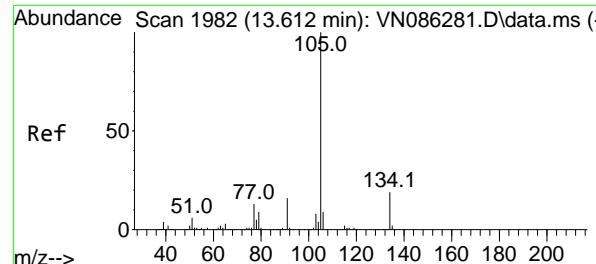
Tgt Ion:105 Resp: 219543

Ion Ratio Lower Upper

105 100

120 44.1 22.4 67.3





#85

sec-Butylbenzene

Concen: 20.062 ug/l

RT: 13.612 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086292.D

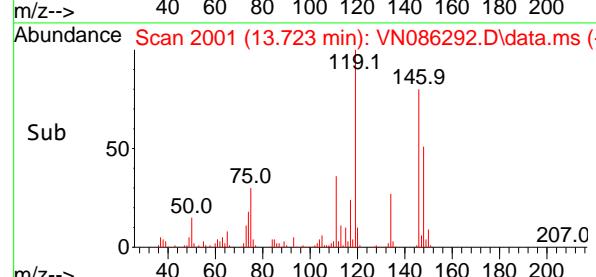
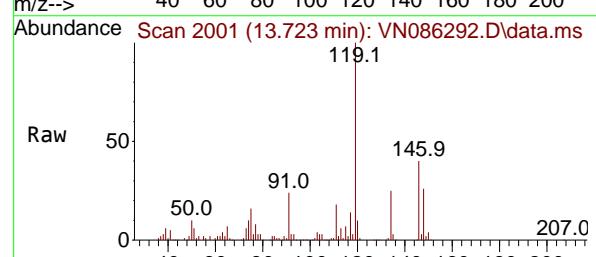
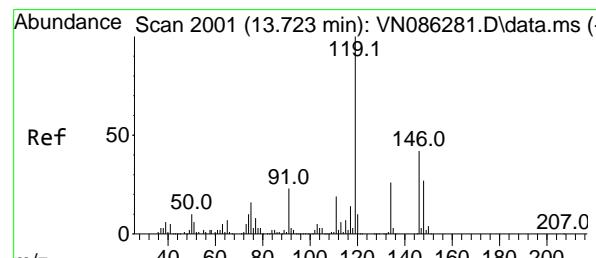
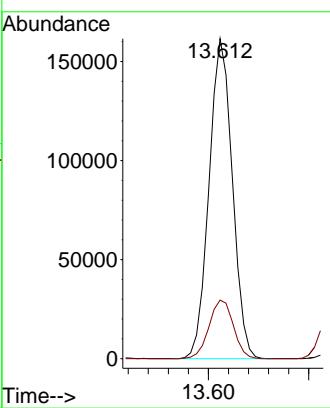
Acq: 16 Apr 2025 13:14

Instrument:

MSVOA_N

ClientSampleId :

VN0416WBSD01

**Manual Integrations
APPROVED**
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

#86

p-Isopropyltoluene

Concen: 20.041 ug/l

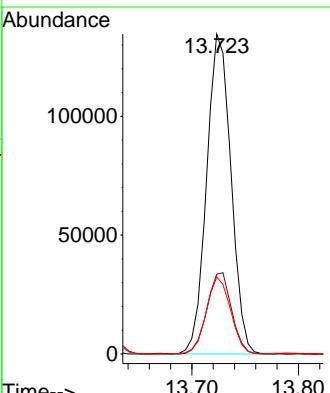
RT: 13.723 min Scan# 2001

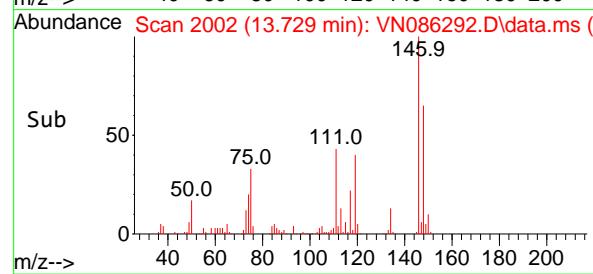
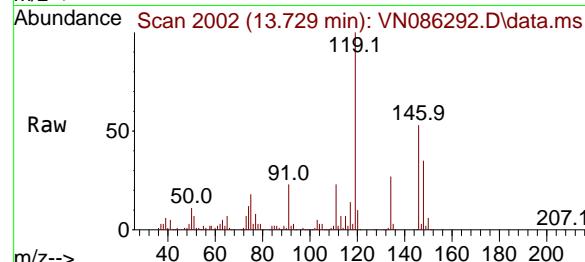
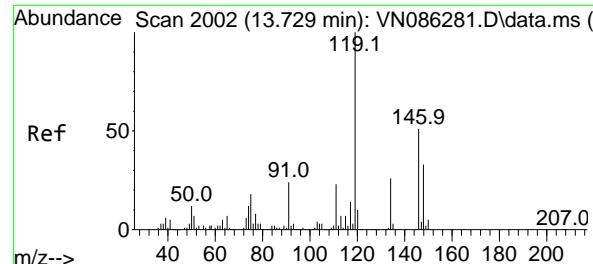
Delta R.T. -0.000 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

| Tgt | Ion:119 | Resp: | 213950 |
|-----|---------|-------|--------|
| Ion | Ratio | Lower | Upper |
| 119 | 100 | | |
| 134 | 25.7 | 13.1 | 39.1 |
| 91 | 24.0 | 11.9 | 35.9 |





#87

1,3-Dichlorobenzene

Concen: 20.108 ug/l

RT: 13.729 min Scan# 2

Delta R.T. -0.000 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

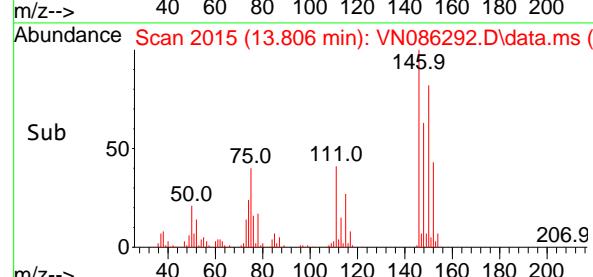
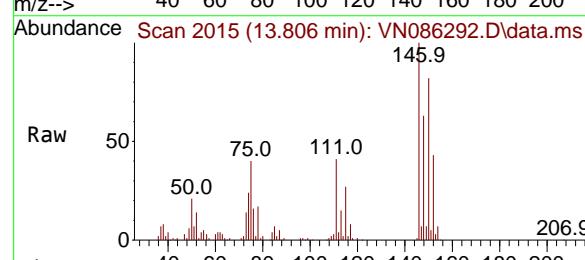
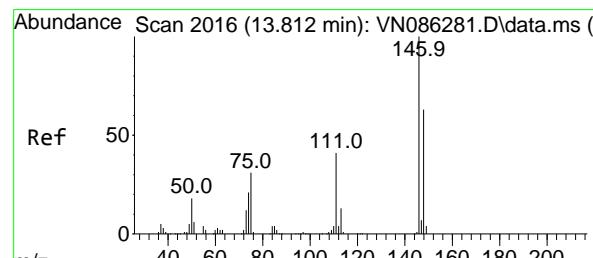
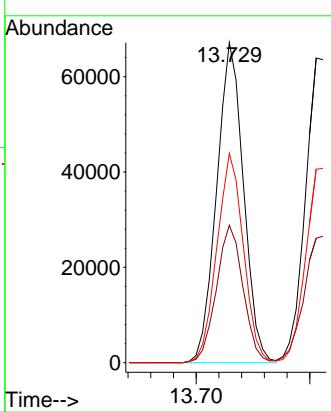
Instrument:

MSVOA_N

ClientSampleId :

VN0416WBSD01

**Manual Integrations
APPROVED**

 Reviewed By :John Carlone 04/17/2025
 Supervised By :Mahesh Dadoda 04/17/2025


#88

1,4-Dichlorobenzene

Concen: 19.865 ug/l

RT: 13.806 min Scan# 2015

Delta R.T. -0.006 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

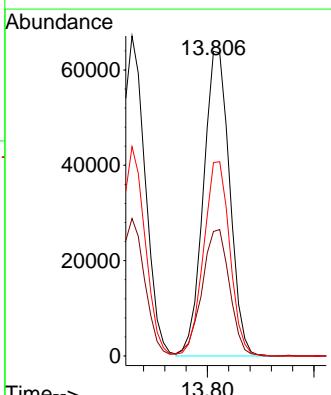
Tgt Ion:146 Resp: 109730

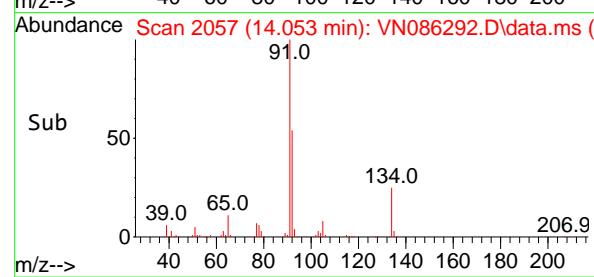
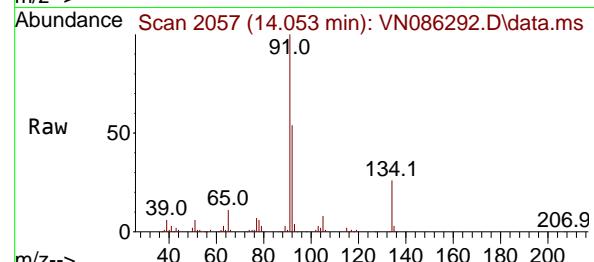
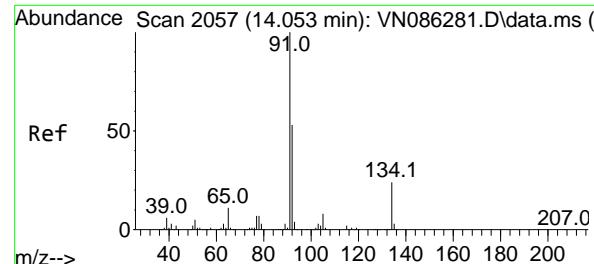
Ion Ratio Lower Upper

146 100

111 43.5 21.3 63.9

148 63.5 31.9 95.9





#89

n-Butylbenzene

Concen: 19.664 ug/l

RT: 14.053 min Scan# 2

Delta R.T. -0.000 min

Lab File: VN086292.D

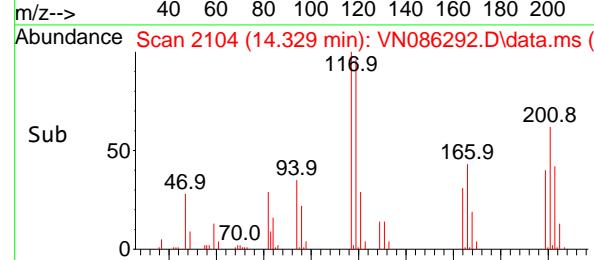
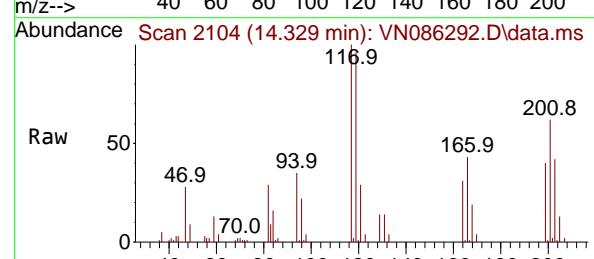
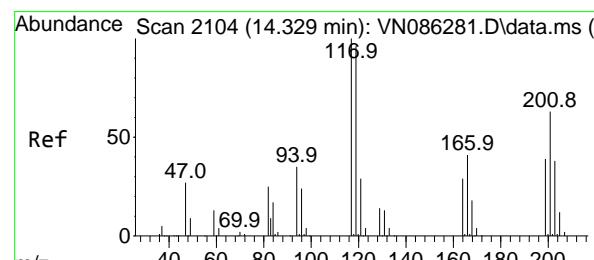
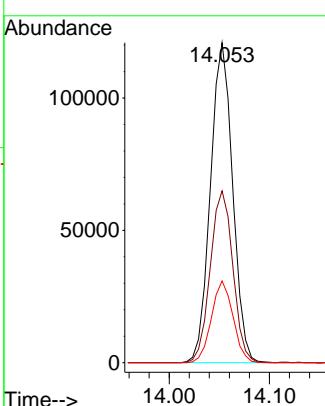
Acq: 16 Apr 2025 13:14

Instrument:

MSVOA_N

ClientSampleId :

VN0416WBSD01

**Manual Integrations
APPROVED**
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

#90

Hexachloroethane

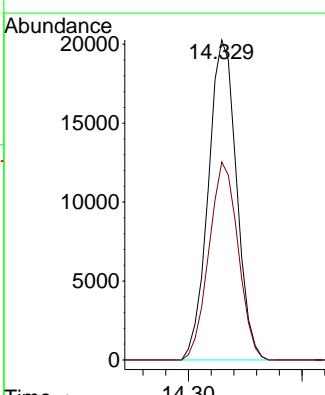
Concen: 19.480 ug/l

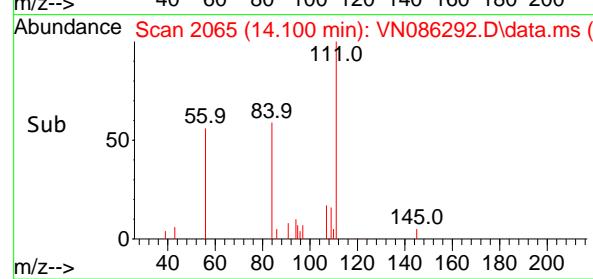
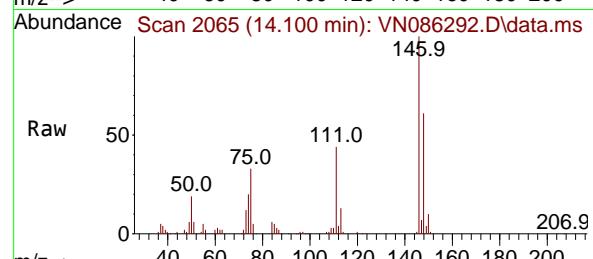
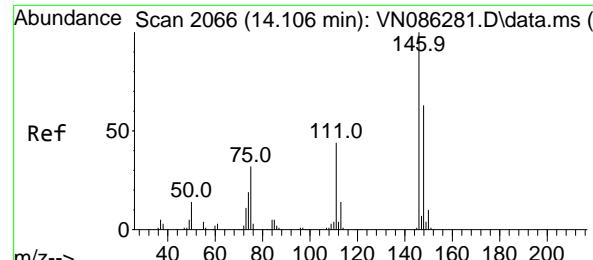
RT: 14.329 min Scan# 2104

Delta R.T. -0.000 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

Tgt Ion:117 Resp: 34980
Ion Ratio Lower Upper
117 100
201 64.0 31.4 94.2



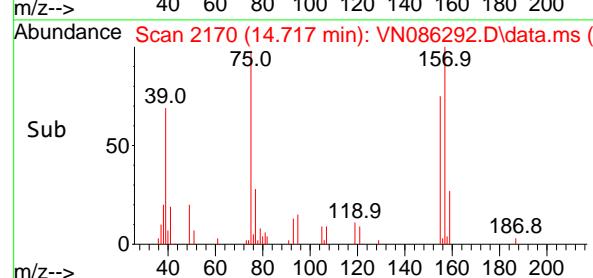
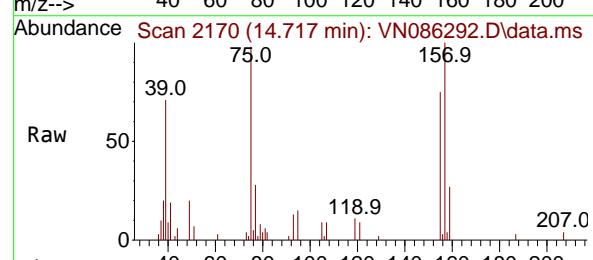
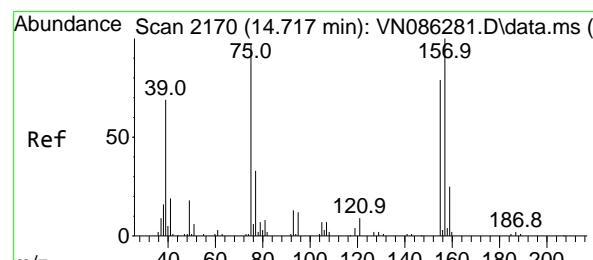
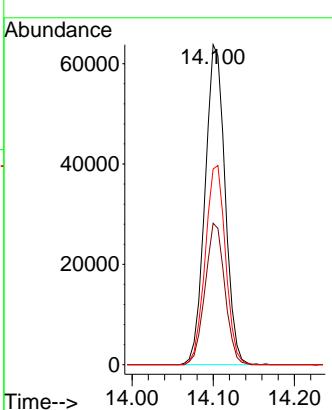
#91

1,2-Dichlorobenzene
Concen: 20.491 ug/l
RT: 14.100 min Scan# 2170
Delta R.T. -0.006 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

Instrument : MSVOA_N
ClientSampleId : VN0416WBSD01

Manual Integrations APPROVED

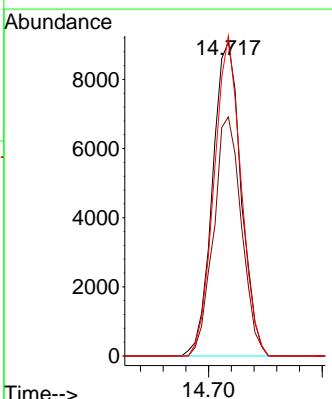
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

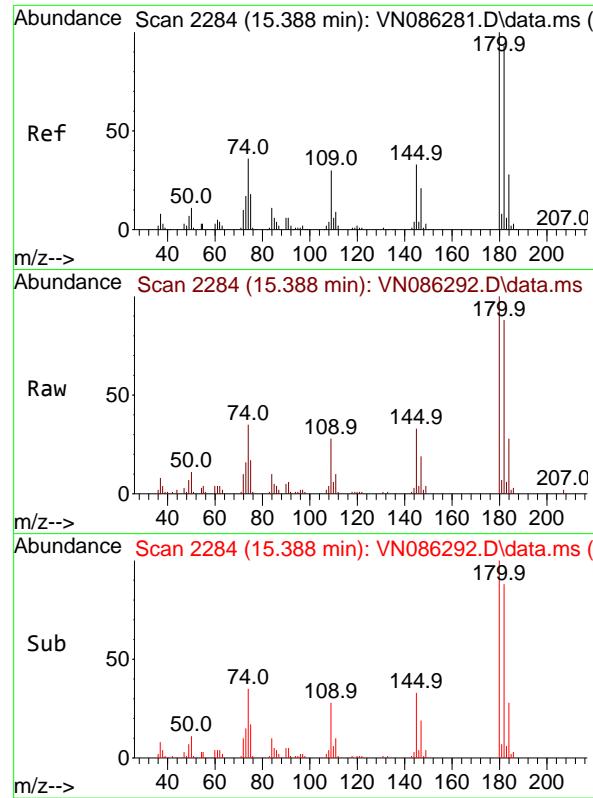


#92

1,2-Dibromo-3-Chloropropane
Concen: 20.666 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

Tgt Ion: 75 Resp: 15775
Ion Ratio Lower Upper
75 100
155 74.7 40.3 120.9
157 96.4 49.0 147.2



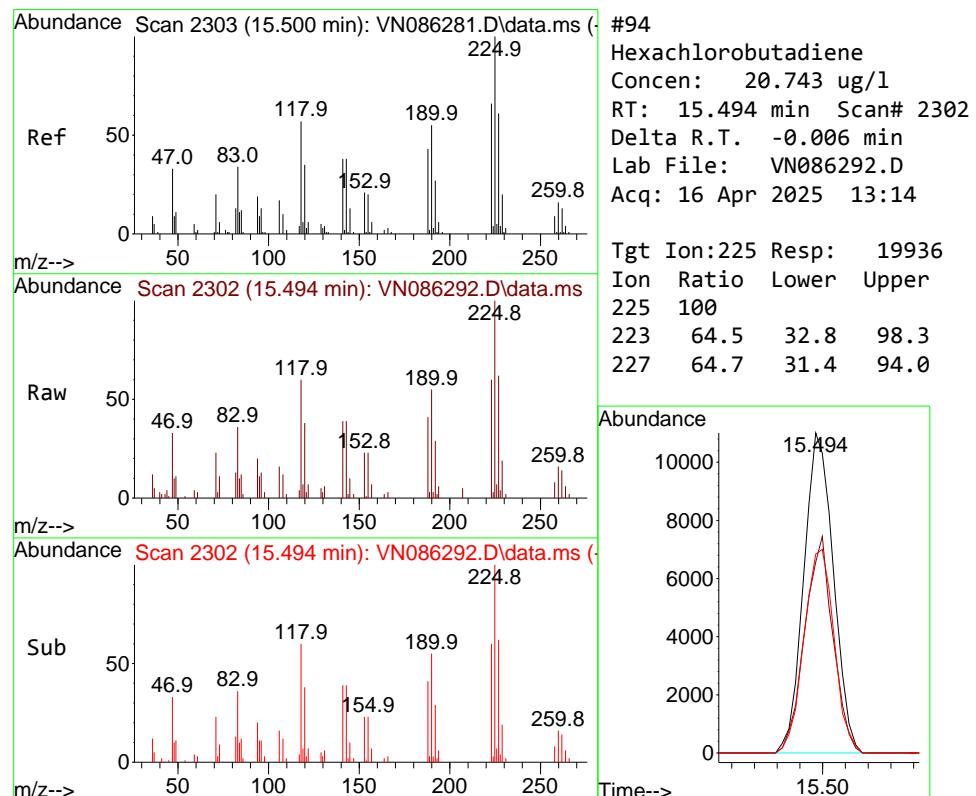
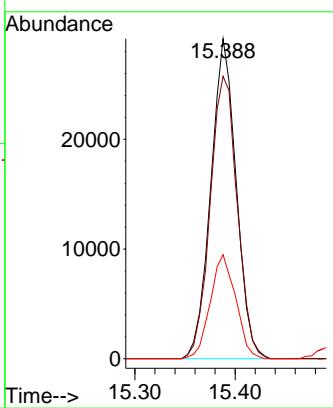


#93
1,2,4-Trichlorobenzene
Concen: 20.142 ug/l
RT: 15.388 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

Instrument : MSVOA_N
ClientSampleId : VN0416WBSD01

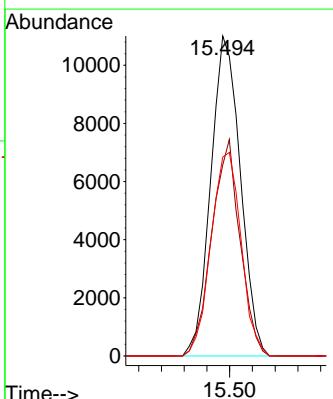
Manual Integrations APPROVED

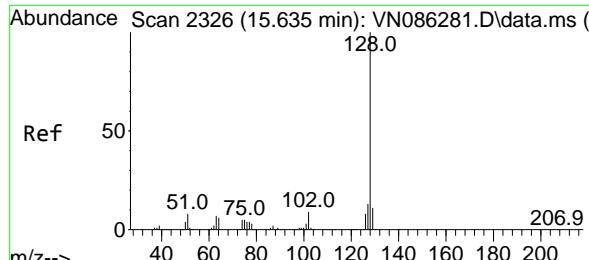
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#94
Hexachlorobutadiene
Concen: 20.743 ug/l
RT: 15.494 min Scan# 2302
Delta R.T. -0.006 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

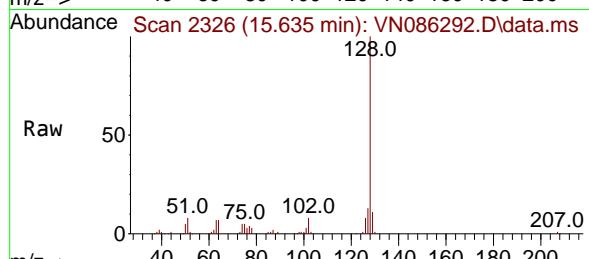
Tgt Ion:225 Resp: 19936
Ion Ratio Lower Upper
225 100
223 64.5 32.8 98.3
227 64.7 31.4 94.0





#95
Naphthalene
Concen: 19.890 ug/l
RT: 15.635 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

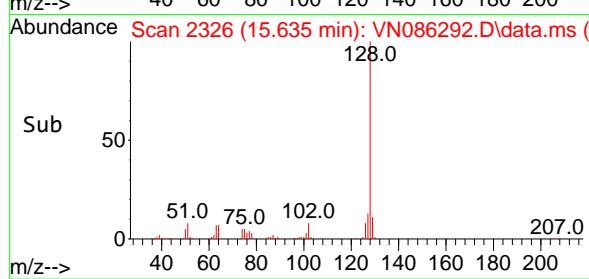
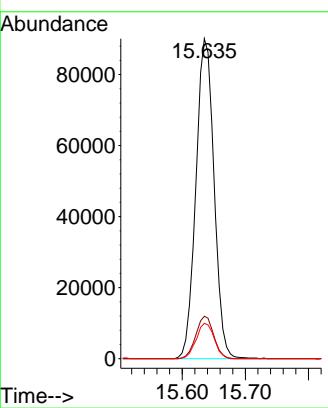
Instrument : MSVOA_N
ClientSampleId : VN0416WBSD01



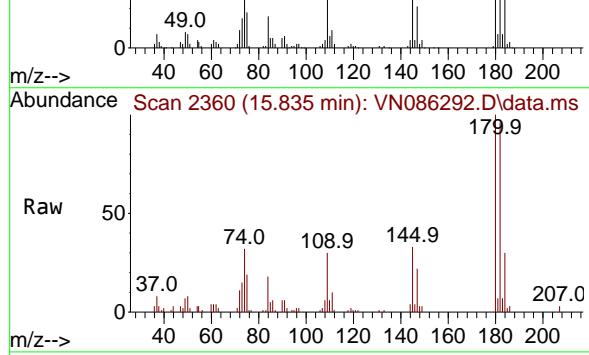
Tgt Ion:128 Resp: 179510
Ion Ratio Lower Upper
128 100
127 13.0 10.2 15.4
129 11.0 8.6 13.0

Manual Integrations APPROVED

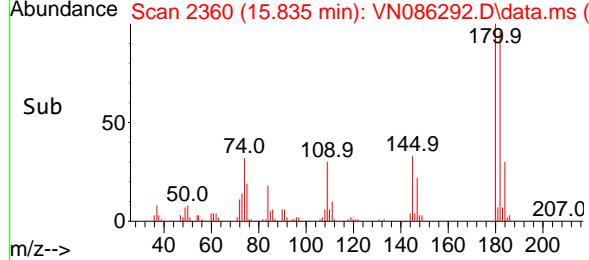
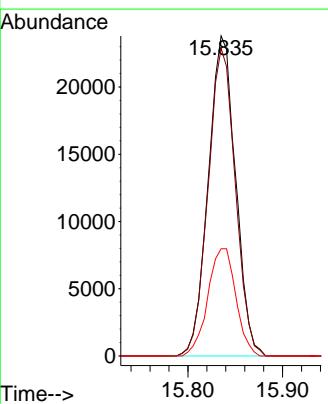
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#96
1,2,3-Trichlorobenzene
Concen: 19.779 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14



Tgt Ion:180 Resp: 47677
Ion Ratio Lower Upper
180 100
182 95.9 47.3 142.0
145 34.4 17.2 51.5





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Manual Integration Report

| | | | |
|-----------|----------|------------|---------|
| Sequence: | VN041525 | Instrument | MSVOA_n |
|-----------|----------|------------|---------|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|-------------|------------|-----------------------------|-----------|----------------------|---------------|----------------------|-----------------------------|
| VSTDICC001 | VN086277.D | 1,2,3-Trichloropropane | JOHN | 4/16/2025 9:06:57 AM | SAM | 4/16/2025 3:43:50 PM | Peak Integrated by Software |
| VSTDICC001 | VN086277.D | 1,4-Dichlorobenzene | JOHN | 4/16/2025 9:06:57 AM | SAM | 4/16/2025 3:43:50 PM | Peak Integrated by Software |
| VSTDICC001 | VN086277.D | Acetone | JOHN | 4/16/2025 9:06:57 AM | SAM | 4/16/2025 3:43:50 PM | Peak Integrated by Software |
| VSTDICC005 | VN086278.D | 1,2,3-Trichloropropane | JOHN | 4/16/2025 9:07:03 AM | SAM | 4/16/2025 3:44:01 PM | Peak Integrated by Software |
| VSTDICC005 | VN086278.D | trans-1,4-Dichloro-2-butene | JOHN | 4/16/2025 9:07:03 AM | SAM | 4/16/2025 3:44:01 PM | Peak Integrated by Software |
| VSTDICC005 | VN086278.D | Vinyl Acetate | JOHN | 4/16/2025 9:07:03 AM | SAM | 4/16/2025 3:44:01 PM | Peak Integrated by Software |
| VSTDICC010 | VN086279.D | 1,2,3-Trichloropropane | JOHN | 4/16/2025 9:07:07 AM | SAM | 4/16/2025 3:44:03 PM | Peak Integrated by Software |
| VSTDICC010 | VN086279.D | Allyl chloride | JOHN | 4/16/2025 9:07:07 AM | SAM | 4/16/2025 3:44:03 PM | Peak Integrated by Software |
| VSTDICC020 | VN086280.D | 1,2,3-Trichloropropane | JOHN | 4/16/2025 9:07:11 AM | SAM | 4/16/2025 3:44:07 PM | Peak Integrated by Software |
| VSTDICC020 | VN086280.D | trans-1,4-Dichloro-2-butene | JOHN | 4/16/2025 9:07:11 AM | SAM | 4/16/2025 3:44:07 PM | Peak Integrated by Software |
| VSTDICC020 | VN086280.D | Vinyl Acetate | JOHN | 4/16/2025 9:07:11 AM | SAM | 4/16/2025 3:44:07 PM | Peak Integrated by Software |
| VSTDICCC050 | VN086281.D | 1,2,3-Trichloropropane | JOHN | 4/16/2025 9:07:15 AM | SAM | 4/16/2025 3:44:11 PM | Peak Integrated by Software |
| VSTDICCC050 | VN086281.D | trans-1,4-Dichloro-2-butene | JOHN | 4/16/2025 9:07:15 AM | SAM | 4/16/2025 3:44:11 PM | Peak Integrated by Software |



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Manual Integration Report

| | | | |
|-----------|----------|------------|---------|
| Sequence: | VN041525 | Instrument | MSVOA_n |
|-----------|----------|------------|---------|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|------------|------------|-----------------------------|-----------|----------------------|---------------|----------------------|-----------------------------|
| VSTDICC100 | VN086282.D | 1,2,3-Trichloropropane | JOHN | 4/16/2025 9:07:19 AM | SAM | 4/16/2025 3:44:11 PM | Peak Integrated by Software |
| VSTDICC100 | VN086282.D | trans-1,4-Dichloro-2-butene | JOHN | 4/16/2025 9:07:19 AM | SAM | 4/16/2025 3:44:11 PM | Peak Integrated by Software |
| VSTDICV050 | VN086284.D | 1,2,3-Trichloropropane | JOHN | 4/16/2025 9:07:24 AM | SAM | 4/16/2025 3:44:13 PM | Peak Integrated by Software |
| VSTDICV050 | VN086284.D | trans-1,4-Dichloro-2-butene | JOHN | 4/16/2025 9:07:24 AM | SAM | 4/16/2025 3:44:13 PM | Peak Integrated by Software |



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Manual Integration Report

| | | | |
|-----------|----------|------------|---------|
| Sequence: | VN041625 | Instrument | MSVOA_n |
|-----------|----------|------------|---------|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|--------------|------------|------------------------|-----------|----------------------|---------------|----------------------|-----------------------------|
| VSTDCCC050 | VN086286.D | 1,2,3-Trichloropropane | JOHN | 4/17/2025 9:04:20 AM | MMDadoda | 4/17/2025 1:41:47 PM | Peak Integrated by Software |
| VN0416WBS01 | VN086289.D | 1,2,3-Trichloropropane | JOHN | 4/17/2025 9:04:25 AM | MMDadoda | 4/17/2025 1:41:48 PM | Peak Integrated by Software |
| VN0416WBSD01 | VN086292.D | 1,2,3-Trichloropropane | JOHN | 4/17/2025 9:04:34 AM | MMDadoda | 4/17/2025 1:41:55 PM | Peak Integrated by Software |
| VSTDCCC050 | VN086311.D | 1,2,3-Trichloropropane | JOHN | 4/17/2025 9:05:10 AM | MMDadoda | 4/17/2025 1:42:00 PM | Peak Integrated by Software |



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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN041525

| | | | |
|--|---|-------------------|----------------------|
| Review By | John Carlone | Review On | 4/16/2025 9:07:40 AM |
| Supervise By | Semsettin Yesilyurt | Supervise On | 4/16/2025 3:44:21 PM |
| SubDirectory | VN041525 | HP Acquire Method | MSVOA_N |
| STD. NAME | STD REF.# | | |
| Tune/Reschk Initial Calibration Stds | VP133665 VP133667,VP133668,VP133669,VP133670,VP133671,VP133672 | | |
| CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard | VP131746 VP133673 | | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|-----|-------------|----------------|-------------------|----------|--------|
| 1 | BFB | VN086276.D | 15 Apr 2025 10:47 | JC\MD | Ok |
| 2 | VSTDICC001 | VN086277.D | 15 Apr 2025 11:29 | JC\MD | Ok,M |
| 3 | VSTDICC005 | VN086278.D | 15 Apr 2025 12:21 | JC\MD | Ok,M |
| 4 | VSTDICC010 | VN086279.D | 15 Apr 2025 12:45 | JC\MD | Ok,M |
| 5 | VSTDICC020 | VN086280.D | 15 Apr 2025 13:09 | JC\MD | Ok,M |
| 6 | VSTDICCC050 | VN086281.D | 15 Apr 2025 13:51 | JC\MD | Ok,M |
| 7 | VSTDICC100 | VN086282.D | 15 Apr 2025 14:29 | JC\MD | Ok,M |
| 8 | VIBLK | VN086283.D | 15 Apr 2025 15:06 | JC\MD | Ok |
| 9 | VSTDICCV050 | VN086284.D | 15 Apr 2025 15:30 | JC\MD | Ok,M |

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN041625

| Review By | John Caralone | Review On | 4/17/2025 9:07:56 AM |
|--|-------------------|-------------------|-----------------------------------|
| Supervise By | Mahesh Dadoda | Supervise On | 4/17/2025 1:42:06 PM |
| SubDirectory | VN041625 | HP Acquire Method | HP Processing Method 82N041525W.M |
| STD. NAME | STD REF.# | | |
| Tune/Reschk Initial Calibration Stds | VP133674 | | |
| CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard | VP133675,VP133676 | | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|-----|--------------|----------------|-------------------|----------|----------|
| 1 | BFB | VN086285.D | 16 Apr 2025 08:38 | JC\MD | Ok |
| 2 | VSTDCCC050 | VN086286.D | 16 Apr 2025 09:14 | JC\MD | Ok,M |
| 3 | VN0416MBL01 | VN086287.D | 16 Apr 2025 09:48 | JC\MD | Ok |
| 4 | VN0416WBL01 | VN086288.D | 16 Apr 2025 10:12 | JC\MD | Ok |
| 5 | VN0416WBS01 | VN086289.D | 16 Apr 2025 11:52 | JC\MD | Ok,M |
| 6 | VN0416WBS02 | VN086290.D | 16 Apr 2025 12:26 | JC\MD | Not Ok |
| 7 | IBLK | VN086291.D | 16 Apr 2025 12:50 | JC\MD | Ok |
| 8 | VN0416WBSD01 | VN086292.D | 16 Apr 2025 13:14 | JC\MD | Ok,M |
| 9 | Q1812-02 | VN086293.D | 16 Apr 2025 13:38 | JC\MD | Ok |
| 10 | Q1812-03 | VN086294.D | 16 Apr 2025 14:02 | JC\MD | Ok |
| 11 | Q1812-01 | VN086295.D | 16 Apr 2025 14:26 | JC\MD | Ok |
| 12 | Q1793-02 | VN086296.D | 16 Apr 2025 14:50 | JC\MD | Ok |
| 13 | Q1793-03 | VN086297.D | 16 Apr 2025 15:14 | JC\MD | Ok |
| 14 | Q1793-04 | VN086298.D | 16 Apr 2025 15:39 | JC\MD | Ok |
| 15 | Q1793-01 | VN086299.D | 16 Apr 2025 16:03 | JC\MD | Ok |
| 16 | Q1760-07MEDL | VN086300.D | 16 Apr 2025 16:27 | JC\MD | Ok |
| 17 | IBLK | VN086301.D | 16 Apr 2025 16:51 | JC\MD | Ok |
| 18 | Q1760-07ME | VN086302.D | 16 Apr 2025 17:15 | JC\MD | Dilution |
| 19 | IBLK | VN086303.D | 16 Apr 2025 17:39 | JC\MD | Ok |
| 20 | VN0416MBS01 | VN086304.D | 16 Apr 2025 18:03 | JC\MD | Ok,M |
| 21 | Q1791-14 | VN086305.D | 16 Apr 2025 18:27 | JC\MD | Ok |



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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN041625

| Review By | John Caralone | Review On | 4/17/2025 9:07:56 AM |
|--|-------------------|-------------------|-----------------------------------|
| Supervise By | Mahesh Dadoda | Supervise On | 4/17/2025 1:42:06 PM |
| SubDirectory | VN041625 | HP Acquire Method | HP Processing Method 82N041525W.M |
| STD. NAME | STD REF.# | | |
| Tune/Reschk Initial Calibration Stds | VP133674 | | |
| CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard | VP133675,VP133676 | | |

| | | | | | |
|----|------------|------------|-------------------|-------|--------|
| 22 | Q1791-09 | VN086306.D | 16 Apr 2025 18:51 | JC\MD | Ok |
| 23 | Q1791-10 | VN086307.D | 16 Apr 2025 19:16 | JC\MD | Ok |
| 24 | Q1791-11 | VN086308.D | 16 Apr 2025 19:40 | JC\MD | Ok |
| 25 | Q1791-13 | VN086309.D | 16 Apr 2025 20:04 | JC\MD | Ok |
| 26 | Q1791-12 | VN086310.D | 16 Apr 2025 20:28 | JC\MD | Ok |
| 27 | VSTDCCC050 | VN086311.D | 16 Apr 2025 20:52 | JC\MD | Not Ok |

M : Manual Integration



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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN041525

| Review By | John Carlone | Review On | 4/16/2025 9:07:40 AM | | |
|--|---|-------------------|----------------------|----------------------|--------------|
| Supervise By | Semsettin Yesilyurt | Supervise On | 4/16/2025 3:44:21 PM | | |
| SubDirectory | VN041525 | HP Acquire Method | MSVOA_N | HP Processing Method | 82N041525W.M |
| STD. NAME | STD REF.# | | | | |
| Tune/Reschk Initial Calibration Stds | VP133665 VP133667,VP133668,VP133669,VP133670,VP133671,VP133672 | | | | |
| CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard | VP131746 VP133673 | | | | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|-----|-------------|-------------|----------------|-------------------|-------------------------------------|----------|--------|
| 1 | BFB | BFB | VN086276.D | 15 Apr 2025 10:47 | | JC\MD | Ok |
| 2 | VSTDICCC001 | VSTDICCC001 | VN086277.D | 15 Apr 2025 11:29 | | JC\MD | Ok,M |
| 3 | VSTDICCC005 | VSTDICCC005 | VN086278.D | 15 Apr 2025 12:21 | Comp.#13,16 is on Linear Regression | JC\MD | Ok,M |
| 4 | VSTDICCC010 | VSTDICCC010 | VN086279.D | 15 Apr 2025 12:45 | Comp.#43 is on Quadratic Regression | JC\MD | Ok,M |
| 5 | VSTDICCC020 | VSTDICCC020 | VN086280.D | 15 Apr 2025 13:09 | | JC\MD | Ok,M |
| 6 | VSTDICCC050 | VSTDICCC050 | VN086281.D | 15 Apr 2025 13:51 | | JC\MD | Ok,M |
| 7 | VSTDICCC100 | VSTDICCC100 | VN086282.D | 15 Apr 2025 14:29 | | JC\MD | Ok,M |
| 8 | VIBLK | VIBLK | VN086283.D | 15 Apr 2025 15:06 | | JC\MD | Ok |
| 9 | VSTDICCV050 | ICVVN041525 | VN086284.D | 15 Apr 2025 15:30 | | JC\MD | Ok,M |

M : Manual Integration



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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN041625

| Review By | John Caralone | Review On | 4/17/2025 9:07:56 AM |
|--|-------------------|-------------------|-----------------------------------|
| Supervise By | Mahesh Dadoda | Supervise On | 4/17/2025 1:42:06 PM |
| SubDirectory | VN041625 | HP Acquire Method | HP Processing Method 82N041525W.M |
| STD. NAME | STD REF.# | | |
| Tune/Reschk Initial Calibration Stds | VP133674 | | |
| CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard | VP133675,VP133676 | | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|-----|--------------|-----------------------|----------------|-------------------|----------------|----------|----------|
| 1 | BFB | BFB | VN086285.D | 16 Apr 2025 08:38 | | JC\MD | Ok |
| 2 | VSTDCCC050 | VSTDCCC050 | VN086286.D | 16 Apr 2025 09:14 | pH#Lot#V12668 | JC\MD | Ok,M |
| 3 | VN0416MBL01 | VN0416MBL01 | VN086287.D | 16 Apr 2025 09:48 | | JC\MD | Ok |
| 4 | VN0416WBL01 | VN0416WBL01 | VN086288.D | 16 Apr 2025 10:12 | | JC\MD | Ok |
| 5 | VN0416WBS01 | VN0416WBS01 | VN086289.D | 16 Apr 2025 11:52 | | JC\MD | Ok,M |
| 6 | VN0416WBS02 | VN0416WBS02 | VN086290.D | 16 Apr 2025 12:26 | Surrogate Fail | JC\MD | Not Ok |
| 7 | IBLK | IBLK | VN086291.D | 16 Apr 2025 12:50 | | JC\MD | Ok |
| 8 | VN0416WBSD01 | VN0416WBSD01 | VN086292.D | 16 Apr 2025 13:14 | | JC\MD | Ok,M |
| 9 | Q1812-02 | RINSE-EB-TANK-0415 | VN086293.D | 16 Apr 2025 13:38 | vial A pH<2 | JC\MD | Ok |
| 10 | Q1812-03 | RINSE-EB-PUMP-0415 | VN086294.D | 16 Apr 2025 14:02 | vial A pH<2 | JC\MD | Ok |
| 11 | Q1812-01 | TB01-041525 | VN086295.D | 16 Apr 2025 14:26 | vial A pH<2 TB | JC\MD | Ok |
| 12 | Q1793-02 | Storage-Blank-WATER | VN086296.D | 16 Apr 2025 14:50 | vial A pH<2 | JC\MD | Ok |
| 13 | Q1793-03 | Storage-Blank-WATER | VN086297.D | 16 Apr 2025 15:14 | vial A pH<2 | JC\MD | Ok |
| 14 | Q1793-04 | Storage-Blank-SAMPLE | VN086298.D | 16 Apr 2025 15:39 | vial A pH<2 | JC\MD | Ok |
| 15 | Q1793-01 | Storage-Blank-SOIL-RE | VN086299.D | 16 Apr 2025 16:03 | vial A pH<2 | JC\MD | Ok |
| 16 | Q1760-07MEDL | TP-15-VOCMEDL | VN086300.D | 16 Apr 2025 16:27 | | JC\MD | Ok |
| 17 | IBLK | IBLK | VN086301.D | 16 Apr 2025 16:51 | | JC\MD | Ok |
| 18 | Q1760-07ME | TP-15-VOCME | VN086302.D | 16 Apr 2025 17:15 | Need 10X | JC\MD | Dilution |



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Fax : 908 789 8922

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN041625

| Review By | John Caralone | Review On | 4/17/2025 9:07:56 AM |
|---|-----------------------------------|-------------------|-----------------------------------|
| Supervise By | Mahesh Dadoda | Supervise On | 4/17/2025 1:42:06 PM |
| SubDirectory | VN041625 | HP Acquire Method | HP Processing Method 82N041525W.M |
| STD. NAME | STD REF.# | | |
| Tune/Reschk Initial Calibration Stds CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard | VP133674 VP133675,VP133676 | | |

| | | | | | | | |
|----|-------------|--------------|------------|-------------------|-------------|-------|--------|
| 19 | IBLK | IBLK | VN086303.D | 16 Apr 2025 17:39 | | JC\MD | Ok |
| 20 | VN0416MBS01 | VN0416MBS01 | VN086304.D | 16 Apr 2025 18:03 | | JC\MD | Ok,M |
| 21 | Q1791-14 | VB16164 | VN086305.D | 16 Apr 2025 18:27 | vial A pH<2 | JC\MD | Ok |
| 22 | Q1791-09 | VB16193 | VN086306.D | 16 Apr 2025 18:51 | vial A pH<2 | JC\MD | Ok |
| 23 | Q1791-10 | 280722 | VN086307.D | 16 Apr 2025 19:16 | vial A pH<2 | JC\MD | Ok |
| 24 | Q1791-11 | 280791 | VN086308.D | 16 Apr 2025 19:40 | vial A pH<2 | JC\MD | Ok |
| 25 | Q1791-13 | 279312 | VN086309.D | 16 Apr 2025 20:04 | vial A pH<2 | JC\MD | Ok |
| 26 | Q1791-12 | V1207 | VN086310.D | 16 Apr 2025 20:28 | vial A pH<2 | JC\MD | Ok |
| 27 | VSTDCCC050 | VSTDCCC050EC | VN086311.D | 16 Apr 2025 20:52 | Out of Tune | JC\MD | Not Ok |

M : Manual Integration



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8900, Fax : 908 789 8922

Prep Standard - Chemical Standard Summary

Order ID : Q1812

Test : VOC-TCLVOA-10

Prepbatch ID :

Sequence ID/Qc Batch ID: VN041625,

Standard ID :

VP131746,VP131767,VP132035,VP132096,VP133174,VP133342,VP133544,VP133674,VP133675,VP133676,

Chemical ID :

V13391,V13457,V13460,V13465,V13466,V13706,V14154,V14289,V14431,V14435,V14501,V14502,V14523,V14524,V14613,V14614,V14615,V14630,V14631,V14632,V14633,V14719,V14720,V14726,V14744,V14753,V14804,V14805,V14842,V14883,V14896,V14897,V14898,V14899,W3112,



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Fax : 908 789 8922

VOC STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|--------------------------------|--------------------------|------------------|------------------------|---------------------|----------------|------------------|-----------------------------|
| 247 | 8260 Internal Standard, 250PPM | VP131746 | 11/22/2024 | 05/18/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 11/23/2024 |

FROM 0.50000ml of V14289 + 49.50000ml of V14154 = Final Quantity: 50.000 ml

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|-------------|--------------------------|------------------|------------------------|---------------------|----------------|------------------|-----------------------------|
| 218 | BFB, 25PPM | VP131767 | 11/22/2024 | 05/18/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 11/27/2024 |

FROM 0.50000ml of V13391 + 49.50000ml of V14154 = Final Quantity: 50.000 ml



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VOC STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|--------------------------------|--------------------------|------------------|------------------------|---------------------|----------------|------------------|-----------------------------|
| 1810 | 8260 Working Std(2-CVE)-800ppm | VP132035 | 12/10/2024 | 06/10/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 12/12/2024 |

FROM 1.00000ml of V14630 + 1.00000ml of V14631 + 1.00000ml of V14632 + 1.00000ml of V14633 + 46.00000ml of V14614 = Final
Quantity: 50.000 ml

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|---|--------------------------|------------------|------------------------|---------------------|----------------|------------------|-----------------------------|
| 719 | 8260 Working STD (BCM)-First source, 400PPM | VP132096 | 12/12/2024 | 06/10/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 12/19/2024 |

FROM 1.00000ml of V13465 + 1.00000ml of V13466 + 1.50000ml of V13457 + 1.50000ml of V13460 + 20.00000ml of V14614 = Final
Quantity: 25.000 ml



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VOC STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|------------------------|--------------------------|------------------|------------------------|---------------------|----------------|------------------|-----------------------------|
| 617 | 8260 Surrogate, 400PPM | VP133174 | 02/27/2025 | 08/27/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 03/04/2025 |

FROM 0.40000ml of V13706 + 24.60000ml of V14613 = Final Quantity: 25.000 ml

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|---|--------------------------|------------------|------------------------|---------------------|----------------|------------------|-----------------------------|
| 51 | 8260 Working STD (Acrolein) -first source, 800PPM | VP133342 | 03/18/2025 | 04/17/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 03/20/2025 |

FROM 1.00000ml of V14896 + 1.00000ml of V14897 + 1.00000ml of V14898 + 1.00000ml of V14899 + 21.00000ml of V14883 = Final Quantity: 25.000 ml



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VOC STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|---|--------------------------|------------------|------------------------|---------------------|----------------|------------------|-----------------------------|
| 257 | 8260 Calibration Working STD Mix-First source, 160PPM | VP133544 | 04/01/2025 | 05/10/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 04/03/2025 |

FROM 0.40000ml of V14842 + 1.00000ml of V14431 + 1.00000ml of V14435 + 1.00000ml of V14501 + 1.00000ml of V14502 + 1.00000ml of V14523 + 1.00000ml of V14524 + 1.00000ml of V14726 + 1.00000ml of V14744 + 1.00000ml of V14753 + 1.00000ml of V14804 + 1.00000ml of V14805 + 1.50000ml of V14719 + 1.50000ml of V14720 + 10.60000ml of V14615 = Final Quantity: 25.000 ml

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|----------------|--------------------------|------------------|------------------------|--------------------|----------------|------------------|-----------------------------|
| 589 | BFB TUNE CHECK | VP133674 | 04/16/2025 | 04/17/2025 | John Carlone | None | None | Mahesh Dadoda 04/18/2025 |

FROM 39.98400ml of W3112 + 0.01600ml of VP131767 = Final Quantity: 40.000 ml

VOC STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|------------------------|--------------------------|------------------|------------------------|--------------------|----------------|------------------|-----------------------------|
| 620 | 50 PPB CCC, 8260-Water | VP133675 | 04/16/2025 | 04/17/2025 | John Carlone | None | None | Mahesh Dadoda 04/18/2025 |

FROM 39.94450ml of W3112 + 0.00500ml of VP132096 + 0.00500ml of VP133174 + 0.00800ml of VP131746 + 0.01250ml of VP132035 + 0.01250ml of VP133342 + 0.01250ml of VP133544 = Final Quantity: 40.000 ml

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|------------------------|--------------------------|------------------|------------------------|--------------------|----------------|------------------|-----------------------------|
| 620 | 50 PPB CCC, 8260-Water | VP133676 | 04/16/2025 | 04/17/2025 | John Carlone | None | None | Mahesh Dadoda 04/18/2025 |

FROM 39.94450ml of W3112 + 0.00500ml of VP132096 + 0.00500ml of VP133174 + 0.00800ml of VP131746 + 0.01250ml of VP132035 + 0.01250ml of VP133342 + 0.01250ml of VP133544 = Final Quantity: 40.000 ml



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CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|---|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek | 30067 / BFB tuneing solution | A0191805 | 11/22/2025 | 11/22/2024 / SAM | 01/13/2023 / SAM | V13391 |
| Restek | 30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul | A0193071 | 06/12/2025 | 12/12/2024 / SAM | 01/27/2023 / SAM | V13457 |
| Restek | 30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul | A0193071 | 06/12/2025 | 12/12/2024 / SAM | 01/27/2023 / SAM | V13460 |
| Restek | 30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul | A0193071 | 06/12/2025 | 12/12/2024 / SAM | 01/27/2023 / SAM | V13465 |
| Restek | 30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul | A0193071 | 06/12/2025 | 12/12/2024 / SAM | 01/27/2023 / SAM | V13466 |
| Restek | 555582 / Custom Mixture, 8260 A/B Surrogate Mix [CS 5179-2] | A0196865 | 02/27/2026 | 02/27/2025 / SAM | 04/12/2023 / SAM | V13706 |



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CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|---|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA9077-02 / Methanol, Purge/Trap (cs=6x1L) | 22L0562016 | 05/18/2025 | 11/18/2024 / pedro | 02/06/2024 / SAM | V14154 |
| Restek | 555581 / Custom Standard, 8260 Internal Std [CS 5179-1] | A0210184 | 11/22/2025 | 11/22/2024 / SAM | 04/15/2024 / SAM | V14289 |
| Restek | 30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL | A0209618 | 09/20/2025 | 03/20/2025 / SAM | 08/15/2024 / SAM | V14431 |
| Restek | 30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL | A0209618 | 09/20/2025 | 03/20/2025 / SAM | 08/15/2024 / SAM | V14435 |
| Absolute Standards, Inc. | 95317 / Universal VOA Mega Mix (Min order = 5) | 021624 | 09/20/2025 | 03/20/2025 / SAM | 09/17/2024 / SAM | V14501 |
| Absolute Standards, Inc. | 95317 / Universal VOA Mega Mix (Min order = 5) | 021624 | 09/20/2025 | 03/20/2025 / SAM | 09/17/2024 / SAM | V14502 |



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CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|--|------------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | 95319 / Revised Additions Mix (Min = 5) | 091724 | 09/20/2025 | 03/20/2025 / SAM | 09/18/2024 / SAM | V14523 |
| Absolute Standards, Inc. | 95319 / Revised Additions Mix (Min = 5) | 091724 | 09/20/2025 | 03/20/2025 / SAM | 09/18/2024 / SAM | V14524 |
| Seidler Chemical | BA9077-02 / Methanol, Purge/Trap (cs=6x1L) | 22L0562016 | 08/27/2025 | 02/27/2025 / SAM | 11/26/2024 / SAM | V14613 |
| Seidler Chemical | BA9077-02 / Methanol, Purge/Trap (cs=6x1L) | 22L0562016 | 06/10/2025 | 12/10/2024 / SAM | 11/26/2024 / SAM | V14614 |
| Seidler Chemical | BA9077-02 / Methanol, Purge/Trap (cs=6x1L) | 22L0562016 | 09/19/2025 | 03/19/2025 / SAM | 11/26/2024 / SAM | V14615 |
| Absolute Standards, Inc. | / 2-Chloroethyl vinyl ether | 120524 | 06/10/2025 | 12/10/2024 / SAM | 12/06/2024 / SAM | V14630 |



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CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|--|-----------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | / 2-Chloroethyl vinyl ether | 120524 | 06/10/2025 | 12/10/2024 / SAM | 12/06/2024 / SAM | V14631 |
| Absolute Standards, Inc. | / 2-Chloroethyl vinyl ether | 120524 | 06/10/2025 | 12/10/2024 / SAM | 12/06/2024 / SAM | V14632 |
| Absolute Standards, Inc. | / 2-Chloroethyl vinyl ether | 120524 | 06/10/2025 | 12/10/2024 / SAM | 12/06/2024 / SAM | V14633 |
| Restek | 30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000ug/ml, PTM, 1ml | A02110618 | 09/20/2025 | 03/20/2025 / SAM | 12/17/2024 / SAM | V14719 |
| Restek | 30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000ug/ml, PTM, 1ml | A02110618 | 09/20/2025 | 03/20/2025 / SAM | 12/17/2024 / SAM | V14720 |
| Restek | 30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000ug/ml, PTM, 1ml | A02110618 | 07/30/2025 | 01/30/2025 / SAM | 12/17/2024 / SAM | V14726 |



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CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|--|------------|-----------------|-------------------------|-----------------------------|----------------|
| Restek | 30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml | A0216826 | 08/27/2025 | 02/27/2025 / SAM | 12/17/2024 / SAM | V14744 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| Restek | 30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml | A0216826 | 07/30/2025 | 01/30/2025 / SAM | 12/17/2024 / SAM | V14753 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| Restek | 555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE LOTS | A0220471 | 09/20/2025 | 03/20/2025 / SAM | 01/08/2025 / SAM | V14804 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| Restek | 555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE LOTS | A0220471 | 09/20/2025 | 03/20/2025 / SAM | 01/08/2025 / SAM | V14805 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| Restek | 30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM | A0217535 | 08/27/2025 | 02/27/2025 / SAM | 01/21/2025 / SAM | V14842 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| Seidler Chemical | BA9077-02 / Methanol, Purge/Trap (cs=6x1L) | 22L0562016 | 10/25/2025 | 02/19/2025 / Jaswal | 04/22/2024 / Jaswal | V14883 |



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CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|-------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | 91980 / Acrolin Std (Min = 5) | 031725 | 04/17/2025 | 03/18/2025 / SAM | 03/18/2025 / SAM | V14896 |

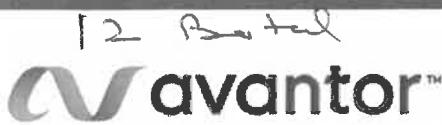
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|-------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | 91980 / Acrolin Std (Min = 5) | 031725 | 04/17/2025 | 03/18/2025 / SAM | 03/18/2025 / SAM | V14897 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|-------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | 91980 / Acrolin Std (Min = 5) | 031725 | 04/17/2025 | 03/18/2025 / SAM | 03/18/2025 / SAM | V14898 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|-------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | 91980 / Acrolin Std (Min = 5) | 031725 | 04/17/2025 | 03/18/2025 / SAM | 03/18/2025 / SAM | V14899 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|---------------------|---------------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | DIW / DI Water | Daily Lab-Certified | 07/03/2029 | 07/03/2024 / Iwona | 07/03/2024 / Iwona | W3112 |

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

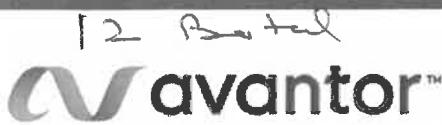
| Test | Specification | Result |
|---|---------------|----------|
| Assay (CH ₃ OH) (by GC, corrected for water) | ≥ 99.9 % | 100.0 % |
| Residue after Evaporation | ≤ 1.0 ppm | 0.2 ppm |
| Titrable Acid (μeq/g) | ≤ 0.3 | 0.2 |
| Titrable Base (μeq/g) | ≤ 0.10 | 0.03 |
| Water (by KF, coulometric) | ≤ 0.08 % | < 0.01 % |
| Volatile Organic Trace Analysis – Below EPA 8260B CRQL | Conforms | Conforms |

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

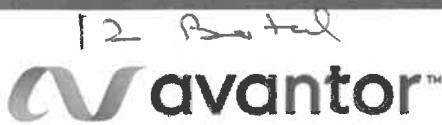
| Test | Specification | Result |
|---|---------------|----------|
| Assay (CH ₃ OH) (by GC, corrected for water) | ≥ 99.9 % | 100.0 % |
| Residue after Evaporation | ≤ 1.0 ppm | 0.2 ppm |
| Titrable Acid (μeq/g) | ≤ 0.3 | 0.2 |
| Titrable Base (μeq/g) | ≤ 0.10 | 0.03 |
| Water (by KF, coulometric) | ≤ 0.08 % | < 0.01 % |
| Volatile Organic Trace Analysis – Below EPA 8260B CRQL | Conforms | Conforms |

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

| Test | Specification | Result |
|---|---------------|----------|
| Assay (CH ₃ OH) (by GC, corrected for water) | ≥ 99.9 % | 100.0 % |
| Residue after Evaporation | ≤ 1.0 ppm | 0.2 ppm |
| Titrable Acid (μeq/g) | ≤ 0.3 | 0.2 |
| Titrable Base (μeq/g) | ≤ 0.10 | 0.03 |
| Water (by KF, coulometric) | ≤ 0.08 % | < 0.01 % |
| Volatile Organic Trace Analysis – Below EPA 8260B CRQL | Conforms | Conforms |

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

Ree 09/17/24

CERTIFIED WEIGHT REPORT

Part Number: 95317
 Lot Number: 021624
 Description: Universal VOA Megamix
 69 components

Solvent(s): Lot#
 Methanol EG359-USQ12

Expiration Date: 02/16/27
 Recommended Storage: Freeze (0 °C)

Nominal Concentration (ug/mL): 2000NIST Test ID#: 8UTBWeight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

5E-05 Balance Uncertainty

| Compound | (RM#) | Lot Number | Dil. Factor | Initial Vol. (mL) | Initial Conc. (ug/mL) | Nominal Conc. (ug/mL) | Purity (%) | Purity Uncertainty | Uncertainty Pipette (mL) | Target Weight(g) | Actual Weight(g) | Actual Conc. (ug/mL) | Actual Uncertainty (+/-) (ug/mL) | SDS Information | | |
|-------------------------------------|--------|------------|-------------|-------------------|-----------------------|-----------------------|------------|--------------------|--------------------------|------------------|------------------|----------------------|----------------------------------|-----------------|--|--------------------|
| | | | | | | | | | | | | | | CAS# | OSHA PEL (TWA) | LD50 |
| 1. Acetonitrile | (0324) | 021644 | NA | NA | NA | 2000 | 99.99 | 0.2 | NA | 0.20007 | 0.20020 | 2001.3 | 8.1 | 75-05-8 | 40 ppm (70mg/m ³ /BH) | orl-rat 2400mg/kg |
| 2. Allyl chloride (3-Chloropropene) | (0325) | 102398 | NA | NA | NA | 2000 | 99 | 0.2 | NA | 0.20207 | 0.20221 | 2001.4 | 8.2 | 107-05-1 | 1 ppm (30mg/m ³ /BH) | orl-rat 700mg/kg |
| 3. Carbon disulfide | (0600) | MKCR8581 | NA | NA | NA | 2000 | 99.99 | 0.2 | NA | 0.20007 | 0.20023 | 2001.8 | 8.1 | 75-15-0 | 4 ppm (12mg/m ³) (skin) | orl-rat 1200mg/kg |
| 4. cis-1,4-Dichloro-2-butene | (1198) | 14718EF | NA | NA | NA | 2000 | 95 | 0.2 | NA | 0.21058 | 0.21069 | 2001.1 | 8.5 | 1478-11-6 | N/A | N/A |
| 5. trans-1,4-Dichloro-2-butene | (0486) | MKBPE041V | NA | NA | NA | 2000 | 96.5 | 0.2 | NA | 0.20731 | 0.20748 | 2001.7 | 8.4 | 110-57-6 | N/A | N/A |
| 6. Diethyl ether | (0153) | K18CA500K | NA | NA | NA | 2000 | 99.9 | 0.2 | NA | 0.20025 | 0.20040 | 2001.5 | 8.1 | 60-29-7 | N/A | N/A |
| 7. Ethyl methacrylate | (0381) | 06128PX | NA | NA | NA | 2000 | 99 | 0.2 | NA | 0.20207 | 0.20230 | 2002.3 | 8.2 | 97-63-2 | N/A | orl-rat 14800mg/kg |
| 8. Iodomethane | (0489) | SHBF8718V | NA | NA | NA | 2000 | 99.5 | 0.2 | NA | 0.20108 | 0.20121 | 2001.5 | 8.2 | 74-88-4 | 5 ppm (28mg/m ³ /BH) (skin) | orl-rat 76mg/kg |
| 9. 2-Methyl-1-propanol | (0445) | 18241EB | NA | NA | NA | 2000 | 99.5 | 0.2 | NA | 0.20108 | 0.20120 | 2001.4 | 8.1 | 78-83-1 | 50 ppm (150mg/m ³ /BH) | orl-rat 240mg/kg |
| 10. Methylacrylonitrile | (0442) | 0042ET | NA | NA | NA | 2000 | 99 | 0.2 | NA | 0.20207 | 0.20221 | 2001.4 | 8.2 | 126-98-7 | 1 ppm (3mg/m ³ /BH) (skin) | orl-rat 120mg/kg |
| 11. Methyl acrylate | (1075) | SHBK0679 | NA | NA | NA | 2000 | 99.9 | 0.2 | NA | 0.20025 | 0.20040 | 2001.5 | 8.1 | 96-33-3 | 10 ppm (35mg/m ³ /BH) (skin) | orl-rat 277mg/kg |
| 12. Methyl methacrylate | (0404) | MKBW5137V | NA | NA | NA | 2000 | 99.9 | 0.2 | NA | 0.20025 | 0.20041 | 2001.6 | 8.1 | 80-82-6 | 100 ppm (410mg/m ³ /BH) | orl-rat 787mg/kg |
| 13. Nitrobenzene | (0228) | 01213TV | NA | NA | NA | 2000 | 99 | 0.2 | NA | 0.20207 | 0.20220 | 2001.3 | 8.2 | 98-85-3 | 1 ppm (3mg/m ³ /BH) (skin) | orl-rat 780mg/kg |
| 14. 2-Nitropropane | (0481) | 14002JK | NA | NA | NA | 2000 | 97.3 | 0.2 | NA | 0.20560 | 0.20577 | 2001.6 | 8.3 | 79-48-9 | 10 ppm (35mg/m ³ /BH) | orl-rat 720mg/kg |
| 15. Pentachloroethane | (0450) | HGA01 | NA | NA | NA | 2000 | 98 | 0.2 | NA | 0.20413 | 0.20430 | 2001.6 | 8.3 | 78-01-7 | N/A | N/A |
| 16. 1,1,2-Trichlorotrifluoroethane | (0474) | 18930 | NA | NA | NA | 2000 | 99 | 0.2 | NA | 0.20207 | 0.20225 | 2001.8 | 8.2 | 76-13-1 | 1000 ppm (7600mg/m ³ /BH) | orl-rat 45mg/kg |
| 17. Bromodichloromethane | 35171 | 101623 | 0.05 | 5.00 | 40001.7 | 2000 | NA | NA | 0.017 | NA | NA | 1988.6 | 22.8 | 75-27-4 | N/A | orl-rat 916mg/kg |
| 18. Dibromochloromethane | 35171 | 101623 | 0.05 | 5.00 | 40002.1 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 23.0 | 124-48-1 | N/A | orl-rat 848mg/kg |
| 19. cis-1,2-Dichloroethene | 35171 | 101623 | 0.05 | 5.00 | 40003.1 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 156-59-2 | N/A | N/A |
| 20. trans-1,2-Dichloroethene | 35171 | 101623 | 0.05 | 5.00 | 40002.4 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 23.0 | 156-60-5 | N/A | orl-rat 1235mg/kg |
| 21. Methylene chloride | 35171 | 101623 | 0.05 | 5.00 | 40002.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 22.9 | 75-09-2 | 500 ppm | orl-rat 820mg/kg |
| 22. 1,1-Dichloroethene | 32251 | 102023 | 0.10 | 10.00 | 20001.6 | 2000 | NA | NA | 0.042 | NA | NA | 1999.7 | 20.4 | 75-35-4 | 1 ppm (4mg/m ³ /BH) | orl-rat 200mg/kg |
| 23. Bromoform | 95321 | 020724 | 0.10 | 10.00 | 20003.2 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.5 | 75-25-2 | 0.5 ppm (5mg/m ³ /BH) (skin) | orl-rat 933mg/kg |
| 24. Carbon tetrachloride | 95321 | 020724 | 0.10 | 10.00 | 20003.4 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.4 | 56-23-5 | 2 ppm (12mg/m ³ /BH) | orl-rat 235mg/kg |
| 25. Chloroform | 95321 | 020724 | 0.10 | 10.00 | 20024.0 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.4 | 67-83-3 | 60 ppm (240mg/m ³) (CL) | orl-rat 908mg/kg |
| 26. Dibromomethane | 95321 | 020724 | 0.10 | 10.00 | 20002.9 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.5 | 74-95-3 | N/A | orl-rat 108mg/kg |
| 27. 1,1-Dichloroethane | 95321 | 020724 | 0.10 | 10.00 | 20003.4 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.5 | 75-34-3 | 100 ppm | orl-rat 725mg/kg |
| 28. 2,2-Dichloropropane | 95321 | 020724 | 0.10 | 10.00 | 20003.4 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.5 | 87-87-5 | 75 ppm (350mg/m ³ /BH) | orl-rat 1847mg/kg |
| 29. Tetrachloroethene | 95321 | 020724 | 0.10 | 10.00 | 20201.1 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.8 | 127-18-4 | 25 ppm (170mg/m ³ /BH)(final) | orl-rat 2620mg/kg |
| 30. 1,1,1-Trichloroethane | 95321 | 020724 | 0.10 | 10.00 | 20003.0 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.5 | 71-55-6 | 350 ppm (1900mg/m ³ /BH) | orl-rat 10300mg/kg |
| 31. 1,2-Dibromo-3-chloropropane | 35161 | 112322 | 0.05 | 5.00 | 40018.5 | 2000 | NA | NA | 0.017 | NA | NA | 2000.3 | 22.9 | 98-12-8 | 0.001 ppm | orl-rat 170mg/kg |
| 32. 1,2-Dibromopentane | 35161 | 112322 | 0.05 | 5.00 | 40024.8 | 2000 | NA | NA | 0.017 | NA | NA | 2001.9 | 20.5 | 78-01-6 | 50 ppm (270mg/m ³ /BH) | orl-mus 2402mg/kg |
| 33. 1,2-Dichloroethane | 35161 | 112322 | 0.05 | 5.00 | 40018.0 | 2000 | NA | NA | 0.017 | NA | NA | 2000.7 | 22.9 | 106-03-4 | 20 ppm (BH) | orl-rat 108mg/kg |
| 34. 1,2-Dichloropropane | 35161 | 112322 | 0.05 | 5.00 | 40051.0 | 2000 | NA | NA | 0.017 | NA | NA | 2000.4 | 22.9 | 107-06-2 | 50 ppm (BH) | orl-rat 670mg/kg |
| 35. 1,2-Dichloropropane | 35161 | 112322 | 0.05 | 5.00 | 40005.9 | 2000 | NA | NA | 0.017 | NA | NA | 2002.0 | 22.9 | 78-87-5 | 75 ppm (350mg/m ³ /BH) | orl-mus 1847mg/kg |
| 36. 1,1-Dichloropropene | 35161 | 112322 | 0.05 | 5.00 | 40012.1 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 142-29-9 | N/A | orl-mus 3600mg/kg |
| 37. cis-1,3-Dichloropropene | 35161 | 112322 | 0.05 | 5.00 | 40010.0 | 2000 | NA | NA | 0.017 | NA | NA | 2000.1 | 20.7 | 583-58-6 | N/A | N/A |
| 38. trans-1,3-Dichloropropene | 35161 | 112322 | 0.05 | 5.00 | 40017.6 | 2000 | NA | NA | 0.017 | NA | NA | 2000.0 | 23.0 | 10081-01-5 | N/A | N/A |
| 39. Hexachloro-1,3-butadiene | 35161 | 112322 | 0.05 | 5.00 | 40021.9 | 2000 | NA | NA | 0.017 | NA | NA | 2000.4 | 23.0 | 10061-02-6 | N/A | N/A |
| 40. 1,1,1,2-Tetrachloroethane | 35161 | 112322 | 0.05 | 5.00 | 40011.9 | 2000 | NA | NA | 0.017 | NA | NA | 2000.6 | 29.7 | 87-08-3 | 0.02 ppm (0.24mg/m ³ /BH) | orl-rat 82mg/kg |
| 41. 1,1,2,2-Tetrachloroethane | 35161 | 112322 | 0.05 | 5.00 | 40007.5 | 2000 | NA | NA | 0.017 | NA | NA | 2000.1 | 22.9 | 830-20-6 | N/A | orl-rat 670mg/kg |
| 42. 1,1,2-Trichloroethane | 35161 | 112322 | 0.05 | 5.00 | 40006.6 | 2000 | NA | NA | 0.017 | NA | NA | 1999.9 | 22.9 | 78-34-5 | 5 ppm (55mg/m ³ /BH) (skin) | orl-rat 600mg/kg |
| 43. Trichloroethene | 35161 | 112322 | 0.05 | 5.00 | 40029.0 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 23.0 | 78-00-5 | 10 ppm (45mg/m ³ /BH) (skin) | orl-rat 836mg/kg |
| 44. 1,2,2-Trichloropropane | 35161 | 112322 | 0.05 | 5.00 | 40007.5 | 2000 | NA | NA | 0.017 | NA | NA | 2000.9 | 22.9 | 78-01-6 | 50 ppm (270mg/m ³ /BH) | orl-mus 2402mg/kg |
| 45. Benzene | 35162 | 050823 | 0.05 | 5.00 | 40005.0 | 2000 | NA | NA | 0.017 | NA | NA | 1999.9 | 22.9 | 98-18-4 | 10 ppm (60mg/m ³ /BH) | orl-rat 149.6mg/kg |
| 46. Bromobenzene | 35162 | 050823 | 0.05 | 5.00 | 40006.9 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 71-43-2 | 1 ppm | orl-rat 4804mg/kg |
| 47. n-Butyl benzene | 35162 | 050823 | 0.05 | 5.00 | 40003.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 108-88-1 | N/A | orl-rat 2689mg/kg |
| 48. Ethyl benzene | 35162 | 050823 | 0.05 | 5.00 | 40004.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 104-51-8 | N/A | N/A |
| 49. p-Isopropyl tolue | 35162 | 050823 | 0.05 | 5.00 | 40005.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 100-41-4 | 100 ppm (435mg/m ³ /BH) | orl-rat >2000mg/kg |
| 50. Naphthalene | 35162 | 050823 | 0.05 | 5.00 | 40006.2 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 99-57-6 | N/A | orl-rat 475mg/kg |
| 51. Styrene | 35162 | 050823 | 0.05 | 5.00 | 40004.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 91-20-3 | 10 ppm (50mg/m ³ /BH) | orl-rat 490mg/kg |
| 52. Toluene | 35162 | 050823 | 0.05 | 5.00 | 40008.2 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 100-42-5 | 100 ppm | orl-rat 5000mg/kg |
| 53. 1,2,3-Trichlorobenzene | 35162 | 050823 | 0.05 | 5.00 | 40003.1 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 108-88-3 | 200 ppm | orl-rat 5000mg/kg |
| 54. 1,2,4-Trichlorobenzene | 35162 | 050823 | 0.05 | 5.00 | 40006.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 120-82-1 | 5 ppm (CL) (40mg/m ³) | orl-rat 756mg/kg |
| 55. 1,3,5-Trimethylbenzene | 35162 | 050823 | 0.05 | 5.00 | 40006.7 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 23.0 | 95-63-6 | N/A | orl-rat 5g/kg |
| 56. m-Xylene | 35162 | 050823 | 0.05 | 5.00 | 40005.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 108-67-8 | N/A | orl-rat 5000mg/kg |
| 57. <i>t</i> -Butyl benzene | | | | | | | | | | | | | | | | |



Run 16, "P95317 L021624 [2000µg/mL in MeOH]"

Run Length: 60.00 min, 35998 points at 10 points/second.

Created: Sat, Feb 17, 2024 at 8:56:46 AM.

Sampled: Sequence "021624-GC5-M1", Method "GC5-M1".

Analyzed using Method "GC5-M1".

Comments

GC5-M1 Analysis by Candice Warren

Column ID SPB-Vocel 105 meter X 0.53mm X 3.0µm film thickness

Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,

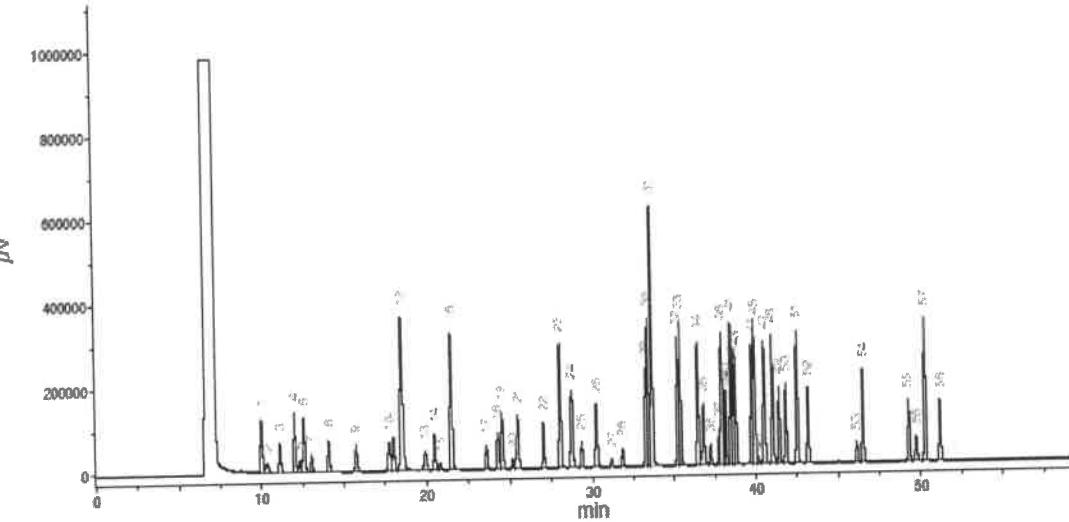
Helium(make-up)=10mL/min., Hydrogen(make-up)=40mL/min., Air(make-up)=230mL/min.

Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.).

Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.

FID Signal = Edaq Channel 1

Standard injection = 0.5µL, Range=3



| | | | |
|-------------------------|---|---|-------|
| Boiling Point | 65°C | Specific Gravity (H ₂ O = 1) | 0.79 |
| Vapor Pressure (mm Hg) | 96 | Melting Point | -98°C |
| Vapor Density (AIR = 1) | 1.11 | Evaporation rate (Butyl Acetate = 1) | 4.6 |
| Solubility in Water | COMPLETE | | |
| Appearance and Odor | CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR. | | |

Section X. STABILITY AND REACTIVITY

Chemical stability: Stable under recommended storage conditions.
 Possibility of hazardous reactions: Vapours may form explosive mixture with air.
 Conditions to avoid: Heat, flames, sparks, extreme temperature and sunlight.
 Materials to avoid: Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
 Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
 LC50 Inhalation - rat - 4 h - 64000 ppm
 LD50 Dermal - rabbit - 15,800 mg/kg
 Toxic if absorbed through skin. Causes skin irritation.
 Eye damage/eye irritation
 Toxic if inhaled. Causes respiratory tract irritation.
 Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
 EC50 24,500.00 mg/l - 48 h
 EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
 UN number: 1230 Class: 3 Packing group: II
 Proper shipping name: Methanol

IATA
 UN number: 1230 Class: 3 Packing group: II
 Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
 SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Ree 09/17/24

CERTIFIED WEIGHT REPORT

Part Number: 95317
 Lot Number: 021624
 Description: Universal VOA Megamix
 69 components

Solvent(s): Lot#
 Methanol EG359-USQ12

Expiration Date: 02/16/27
 Recommended Storage: Freeze (0 °C)

Nominal Concentration (ug/mL): 2000NIST Test ID#: 8UTBWeight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

5E-05 Balance Uncertainty

| Compound | (RM#) | Lot Number | Dil. Factor | Initial Vol. (mL) | Initial Conc. (ug/mL) | Nominal Conc. (ug/mL) | Purity (%) | Purity Uncertainty | Uncertainty Pipette (mL) | Target Weight(g) | Actual Weight(g) | Actual Conc. (ug/mL) | Actual Uncertainty (+/-) (ug/mL) | SDS Information | | |
|-------------------------------------|--------|------------|-------------|-------------------|-----------------------|-----------------------|------------|--------------------|--------------------------|------------------|------------------|----------------------|----------------------------------|-----------------|--|--------------------|
| | | | | | | | | | | | | | | CAS# | OSHA PEL (TWA) | LD50 |
| 1. Acetonitrile | (0324) | 021644 | NA | NA | NA | 2000 | 99.99 | 0.2 | NA | 0.20007 | 0.20020 | 2001.3 | 8.1 | 75-05-8 | 40 ppm (70mg/m ³ /BH) | orl-rat 2400mg/kg |
| 2. Allyl chloride (3-Chloropropene) | (0325) | 102398 | NA | NA | NA | 2000 | 99 | 0.2 | NA | 0.20207 | 0.20221 | 2001.4 | 8.2 | 107-05-1 | 1 ppm (30mg/m ³ /BH) | orl-rat 700mg/kg |
| 3. Carbon disulfide | (0600) | MKCR8581 | NA | NA | NA | 2000 | 99.99 | 0.2 | NA | 0.20007 | 0.20023 | 2001.8 | 8.1 | 75-15-0 | 4 ppm (12mg/m ³) (skin) | orl-rat 1200mg/kg |
| 4. cis-1,4-Dichloro-2-butene | (1198) | 14718EF | NA | NA | NA | 2000 | 95 | 0.2 | NA | 0.21058 | 0.21069 | 2001.1 | 8.5 | 1478-11-6 | N/A | N/A |
| 5. trans-1,4-Dichloro-2-butene | (0486) | MKBPE041V | NA | NA | NA | 2000 | 96.5 | 0.2 | NA | 0.20731 | 0.20748 | 2001.7 | 8.4 | 110-57-6 | N/A | N/A |
| 6. Diethyl ether | (0153) | K18CA500K | NA | NA | NA | 2000 | 99.9 | 0.2 | NA | 0.20025 | 0.20040 | 2001.5 | 8.1 | 60-29-7 | N/A | N/A |
| 7. Ethyl methacrylate | (0381) | 06128PX | NA | NA | NA | 2000 | 99 | 0.2 | NA | 0.20207 | 0.20230 | 2002.3 | 8.2 | 97-63-2 | N/A | orl-rat 14800mg/kg |
| 8. Iodomethane | (0489) | SHBF8718V | NA | NA | NA | 2000 | 99.5 | 0.2 | NA | 0.20108 | 0.20121 | 2001.5 | 8.2 | 74-88-4 | 5 ppm (28mg/m ³ /BH) (skin) | orl-rat 76mg/kg |
| 9. 2-Methyl-1-propanol | (0445) | 18241EB | NA | NA | NA | 2000 | 99.5 | 0.2 | NA | 0.20108 | 0.20120 | 2001.4 | 8.1 | 78-83-1 | 50 ppm (150mg/m ³ /BH) | orl-rat 240mg/kg |
| 10. Methylacrylonitrile | (0442) | 0042ET | NA | NA | NA | 2000 | 99 | 0.2 | NA | 0.20207 | 0.20221 | 2001.4 | 8.2 | 126-98-7 | 1 ppm (3mg/m ³ /BH) (skin) | orl-rat 120mg/kg |
| 11. Methyl acrylate | (1075) | SHBK0679 | NA | NA | NA | 2000 | 99.9 | 0.2 | NA | 0.20025 | 0.20040 | 2001.5 | 8.1 | 96-33-3 | 10 ppm (35mg/m ³ /BH) (skin) | orl-rat 277mg/kg |
| 12. Methyl methacrylate | (0404) | MKBW6137V | NA | NA | NA | 2000 | 99.9 | 0.2 | NA | 0.20025 | 0.20041 | 2001.6 | 8.1 | 80-82-6 | 100 ppm (410mg/m ³ /BH) | orl-rat 787mg/kg |
| 13. Nitrobenzene | (0228) | 01213TV | NA | NA | NA | 2000 | 99 | 0.2 | NA | 0.20207 | 0.20220 | 2001.3 | 8.2 | 98-85-3 | 1 ppm (3mg/m ³ /BH) (skin) | orl-rat 780mg/kg |
| 14. 2-Nitropropane | (0481) | 14002JK | NA | NA | NA | 2000 | 97.3 | 0.2 | NA | 0.20560 | 0.20577 | 2001.6 | 8.3 | 79-48-9 | 10 ppm (35mg/m ³ /BH) | orl-rat 720mg/kg |
| 15. Pentachloroethane | (0450) | HGA01 | NA | NA | NA | 2000 | 98 | 0.2 | NA | 0.20413 | 0.20430 | 2001.6 | 8.3 | 78-01-7 | N/A | N/A |
| 16. 1,1,2-Trichlorotrifluoroethane | (0474) | 18930 | NA | NA | NA | 2000 | 99 | 0.2 | NA | 0.20207 | 0.20225 | 2001.8 | 8.2 | 76-13-1 | 1000 ppm (7600mg/m ³ /BH) | orl-rat 45mg/kg |
| 17. Bromodichloromethane | 35171 | 101623 | 0.05 | 5.00 | 40001.7 | 2000 | NA | NA | 0.017 | NA | NA | 1988.6 | 22.8 | 75-27-4 | N/A | orl-rat 916mg/kg |
| 18. Dibromochloromethane | 35171 | 101623 | 0.05 | 5.00 | 40002.1 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 23.0 | 124-48-1 | N/A | orl-rat 848mg/kg |
| 19. cis-1,2-Dichloroethene | 35171 | 101623 | 0.05 | 5.00 | 40003.1 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 156-59-2 | N/A | N/A |
| 20. trans-1,2-Dichloroethene | 35171 | 101623 | 0.05 | 5.00 | 40002.4 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 23.0 | 156-60-5 | N/A | orl-rat 1235mg/kg |
| 21. Methylene chloride | 35171 | 101623 | 0.05 | 5.00 | 40002.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 22.9 | 75-09-2 | 500 ppm | orl-rat 820mg/kg |
| 22. 1,1-Dichloroethene | 32251 | 102023 | 0.10 | 10.00 | 20001.6 | 2000 | NA | NA | 0.042 | NA | NA | 1999.7 | 20.4 | 75-35-4 | 1 ppm (4mg/m ³ /BH) | orl-rat 200mg/kg |
| 23. Bromoform | 95321 | 020724 | 0.10 | 10.00 | 20003.2 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.5 | 75-25-2 | 0.5 ppm (5mg/m ³ /BH) (skin) | orl-rat 933mg/kg |
| 24. Carbon tetrachloride | 95321 | 020724 | 0.10 | 10.00 | 20003.4 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.4 | 56-23-5 | 2 ppm (12mg/m ³ /BH) | orl-rat 235mg/kg |
| 25. Chloroform | 95321 | 020724 | 0.10 | 10.00 | 20024.0 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.4 | 67-88-3 | 60 ppm (240mg/m ³) (CL) | orl-rat 908mg/kg |
| 26. Dibromomethane | 95321 | 020724 | 0.10 | 10.00 | 20002.9 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.5 | 74-95-3 | N/A | orl-rat 108mg/kg |
| 27. 1,1-Dichloroethane | 95321 | 020724 | 0.10 | 10.00 | 20003.4 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.5 | 75-34-3 | 100 ppm | orl-rat 725mg/kg |
| 28. 2,2-Dichloropropane | 95321 | 020724 | 0.10 | 10.00 | 20003.4 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.5 | 77-85-7 | 75 ppm (350mg/m ³ /BH) | orl-rat 1847mg/kg |
| 29. Tetrachloroethene | 95321 | 020724 | 0.10 | 10.00 | 20201.1 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.8 | 127-18-4 | 25 ppm (170mg/m ³ /BH)(final) | orl-rat 2620mg/kg |
| 30. 1,1,1-Trichloroethane | 95321 | 020724 | 0.10 | 10.00 | 20003.0 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.5 | 71-55-6 | 350 ppm (1900mg/m ³ /BH) | orl-rat 10300mg/kg |
| 31. 1,2-Dibromo-3-chloropropane | 35161 | 112322 | 0.05 | 5.00 | 40018.5 | 2000 | NA | NA | 0.017 | NA | NA | 2000.3 | 22.9 | 98-12-8 | 0.001 ppm | orl-rat 170mg/kg |
| 32. 1,2-Dibromopentane | 35161 | 112322 | 0.05 | 5.00 | 40024.8 | 2000 | NA | NA | 0.017 | NA | NA | 2001.9 | 20.5 | 79-01-6 | 50 ppm (270mg/m ³ /BH) | orl-mus 2402mg/kg |
| 33. 1,2-Dichloroethane | 35161 | 112322 | 0.05 | 5.00 | 40018.0 | 2000 | NA | NA | 0.017 | NA | NA | 2000.7 | 22.9 | 106-03-4 | 20 ppm (BH) | orl-rat 108mg/kg |
| 34. 1,2-Dichloropropane | 35161 | 112322 | 0.05 | 5.00 | 40051.0 | 2000 | NA | NA | 0.017 | NA | NA | 2000.4 | 22.9 | 107-06-2 | 50 ppm (BH) | orl-rat 670mg/kg |
| 35. 1,2-Dichloropropane | 35161 | 112322 | 0.05 | 5.00 | 40005.9 | 2000 | NA | NA | 0.017 | NA | NA | 2002.0 | 22.9 | 78-87-5 | 75 ppm (350mg/m ³ /BH) | orl-mus 1847mg/kg |
| 36. 1,1-Dichloropropene | 35161 | 112322 | 0.05 | 5.00 | 40012.1 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 142-29-9 | N/A | orl-mus 3600mg/kg |
| 37. cis-1,3-Dichloropropene | 35161 | 112322 | 0.05 | 5.00 | 40010.0 | 2000 | NA | NA | 0.017 | NA | NA | 2000.1 | 20.7 | 583-58-6 | N/A | N/A |
| 38. trans-1,3-Dichloropropene | 35161 | 112322 | 0.05 | 5.00 | 40017.6 | 2000 | NA | NA | 0.017 | NA | NA | 2000.0 | 23.0 | 10081-01-5 | N/A | N/A |
| 39. Hexachloro-1,3-butadiene | 35161 | 112322 | 0.05 | 5.00 | 40021.9 | 2000 | NA | NA | 0.017 | NA | NA | 2000.4 | 23.0 | 10061-02-6 | N/A | N/A |
| 40. 1,1,1,2-Tetrachloroethane | 35161 | 112322 | 0.05 | 5.00 | 40011.9 | 2000 | NA | NA | 0.017 | NA | NA | 2000.6 | 29.7 | 87-08-3 | 0.02 ppm (0.24mg/m ³ /BH) | orl-rat 82mg/kg |
| 41. 1,1,2,2-Tetrachloroethane | 35161 | 112322 | 0.05 | 5.00 | 40007.5 | 2000 | NA | NA | 0.017 | NA | NA | 2000.1 | 22.9 | 830-20-6 | N/A | orl-rat 670mg/kg |
| 42. 1,1,2-Trichloroethane | 35161 | 112322 | 0.05 | 5.00 | 40006.6 | 2000 | NA | NA | 0.017 | NA | NA | 1999.9 | 22.9 | 78-34-5 | 5 ppm (55mg/m ³ /BH) (skin) | orl-rat 600mg/kg |
| 43. Trichloroethene | 35161 | 112322 | 0.05 | 5.00 | 40029.0 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 23.0 | 78-00-5 | 10 ppm (45mg/m ³ /BH) (skin) | orl-rat 836mg/kg |
| 44. 1,2,2-Trichloropropane | 35161 | 112322 | 0.05 | 5.00 | 40007.5 | 2000 | NA | NA | 0.017 | NA | NA | 2000.9 | 22.9 | 78-01-6 | 50 ppm (270mg/m ³ /BH) | orl-mus 2402mg/kg |
| 45. Benzene | 35162 | 050823 | 0.05 | 5.00 | 40005.0 | 2000 | NA | NA | 0.017 | NA | NA | 1999.9 | 22.9 | 98-18-4 | 10 ppm (60mg/m ³ /BH) | orl-rat 149.6mg/kg |
| 46. Bromobenzene | 35162 | 050823 | 0.05 | 5.00 | 40006.9 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 71-43-2 | 1 ppm | orl-rat 4804mg/kg |
| 47. n-Butyl benzene | 35162 | 050823 | 0.05 | 5.00 | 40003.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 108-88-1 | N/A | orl-rat 2689mg/kg |
| 48. Ethyl benzene | 35162 | 050823 | 0.05 | 5.00 | 40004.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 104-51-8 | N/A | N/A |
| 49. p-Isopropyl tolue | 35162 | 050823 | 0.05 | 5.00 | 40005.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 100-41-4 | 100 ppm (435mg/m ³ /BH) | orl-rat >2000mg/kg |
| 50. Naphthalene | 35162 | 050823 | 0.05 | 5.00 | 40006.2 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 99-57-6 | N/A | orl-rat 475mg/kg |
| 51. Styrene | 35162 | 050823 | 0.05 | 5.00 | 40004.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 91-20-3 | 10 ppm (50mg/m ³ /BH) | orl-rat 490mg/kg |
| 52. Toluene | 35162 | 050823 | 0.05 | 5.00 | 40008.2 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 100-42-5 | 100 ppm | orl-rat 5000mg/kg |
| 53. 1,2,3-Trichlorobenzene | 35162 | 050823 | 0.05 | 5.00 | 40003.1 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 108-88-3 | 200 ppm | orl-rat 5000mg/kg |
| 54. 1,2,4-Trichlorobenzene | 35162 | 050823 | 0.05 | 5.00 | 40006.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 120-82-1 | 5 ppm (CL) (40mg/m ³) | orl-rat 756mg/kg |
| 55. 1,3,5-Trimethylbenzene | 35162 | 050823 | 0.05 | 5.00 | 40006.7 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 23.0 | 95-63-6 | N/A | orl-rat 5g/kg |
| 56. m-Xylene | 35162 | 050823 | 0.05 | 5.00 | 40005.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 108-67-8 | N/A | orl-rat 5000mg/kg |
| 57. <i>t</i> -Butyl benzene | | | | | | | | | | | | | | | | |



Run 16, "P95317 L021624 [2000µg/mL in MeOH]"

Run Length: 60.00 min, 35998 points at 10 points/second.

Created: Sat, Feb 17, 2024 at 8:56:46 AM.

Sampled: Sequence "021624-GC5-M1", Method "GC5-M1".

Analyzed using Method "GC5-M1".

Comments

GC5-M1 Analysis by Candice Warren

Column ID SPB-Vocel 105 meter X 0.53mm X 3.0µm film thickness

Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,

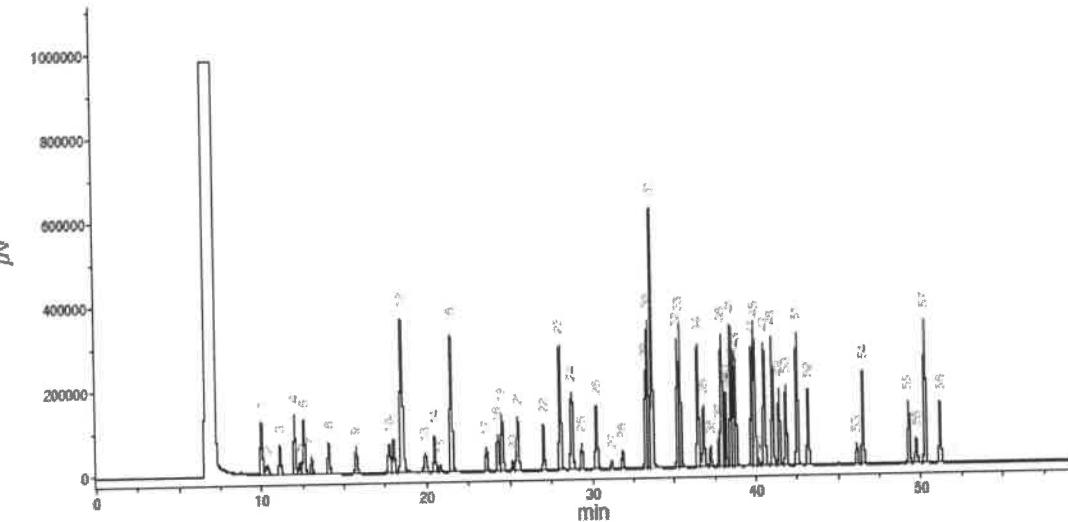
Helium(make-up)=10mL/min., Hydrogen(make-up)=40mL/min., Air(make-up)=230mL/min.

Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.).

Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.

FID Signal = Edaq Channel 1

Standard injection = 0.5µL, Range=3



| | | | |
|-------------------------|---|---|-------|
| Boiling Point | 65°C | Specific Gravity (H ₂ O = 1) | 0.79 |
| Vapor Pressure (mm Hg) | 96 | Melting Point | -98°C |
| Vapor Density (AIR = 1) | 1.11 | Evaporation rate (Butyl Acetate = 1) | 4.6 |
| Solubility in Water | COMPLETE | | |
| Appearance and Odor | CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR. | | |

Section X. STABILITY AND REACTIVITY

Chemical stability: Stable under recommended storage conditions.
 Possibility of hazardous reactions: Vapours may form explosive mixture with air.
 Conditions to avoid: Heat, flames, sparks, extreme temperature and sunlight.
 Materials to avoid: Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
 Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
 LC50 Inhalation - rat - 4 h - 64000 ppm
 LD50 Dermal - rabbit - 15,800 mg/kg
 Toxic if absorbed through skin. Causes skin irritation.
 Eye damage/eye irritation
 Toxic if inhaled. Causes respiratory tract irritation.
 Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
 EC50 24,500.00 mg/l - 48 h
 EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
 UN number: 1230 Class: 3 Packing group: II
 Proper shipping name: Methanol

IATA
 UN number: 1230 Class: 3 Packing group: II
 Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
 SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Rev 03/18/24



CERTIFIED WEIGHT REPORT

Part Number: 91980
 Lot Number: 031725
 Description: Acrolein

Expiration Date: 041725
 Recommended Storage: Refrigerate (4 °C)
 Nominal Concentration ($\mu\text{g/mL}$): 5000
 NIST Test ID#: 6UTB

Weight(s) shown below were combined and diluted to (mL): 10.0 5E-05 Balance Uncertainty

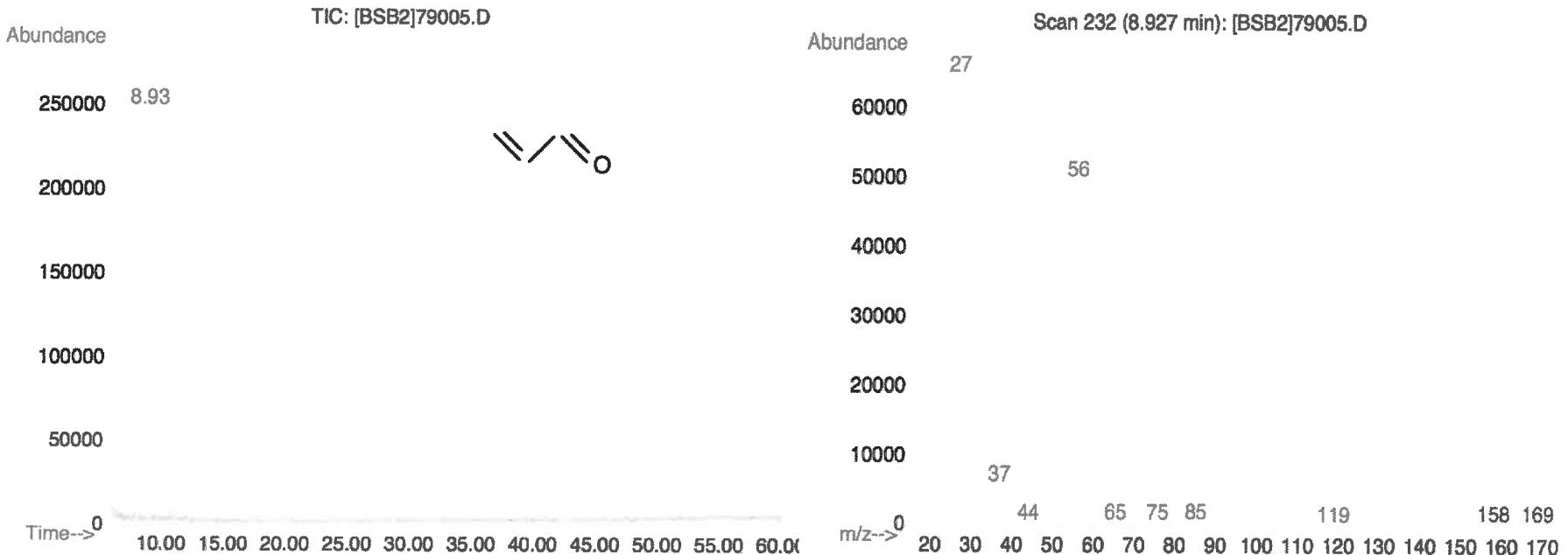
Solvent(s): Water Lot# 072324Q

V14895 to
V14899

| | |
|------------------------|-----------------|
| <i>Lawrence Barry</i> | 031725 |
| Formulated By: | Lawrence Barry |
| <i>Pedro L. Rentas</i> | 031725 |
| Reviewed By: | Pedro L. Rentas |

| Compound | RM# | Lot Number | Nominal Conc ($\mu\text{g/mL}$) | Purity (%) | Uncertainty Purity | Target Weight(g) | Actual Weight(g) | Actual Conc ($\mu\text{g/mL}$) | Expanded Uncertainty (+/-) ($\mu\text{g/mL}$) | SDS Information | | |
|-------------|-----|------------|-----------------------------------|------------|--------------------|------------------|------------------|----------------------------------|---|--|---------|-----------------|
| | | | | | | | | | | (Solvent Safety Info. On Attached pg.) | CAS# | OSHA PEL (TWA) |
| 1. Acrolein | 5 | 103755V10F | 5000 | 97 | 0.5 | 0.05166 | 0.05170 | 5004.1 | 52.5 | 107-02-8 | 0.1 ppm | orl-rat 46mg/kg |

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5 μm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) **Rate** = 4°C/min., **Injector Temp.** = 200°C, **Detector Temp.** = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5 % of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification**IDENTITY ANALYTICAL STANDARD DISSOLVED IN WATER**

| | | | |
|---------------------|-------------------------------------|-----------------------------------|-----------------------|
| Manufacturer's Name | ABSOLUTE STANDARDS INC | Emergency Telephone USA & CANADA | 1-800-535-5053 |
| Address | 44 Rossotto Dr. Hamden CT, 06514 | Emergency Telephone International | 1-352-323-3500 |
| | | Date Prepared/Revised | January 1, 2025 |

Section II - Hazards Identification**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

| | | | |
|----------|--------------------------------------|--------------|---|
| P271 | Use in ventilated area | H315 | Causes skin and eye irritation. |
| P302,332 | If on skin, wash with soap and water | P280 | Use gloves, eye protection/face shield |
| | | P305,351,338 | If in eyes, remove contacts, rinse with water |

**Signal Word: DANGER****Section III - Composition**

Components (Specific Chemical Identity; Common Name(s))
 Water % (optional)
 CAS#: 7732-18-5 > 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.**INTENDED USE: REFERENCE MATERIAL****Section IV. FIRST AID MEASURES**

| | |
|-------------------------|---|
| General advice | Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area. |
| If inhaled | If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| In case of skin contact | Wash with soap and water. Consult a physician. |
| In case of eye contact | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| If swallowed | Do NOT induce vomiting. Rinse mouth with water. Consult a physician. |

Section V. FIREFIGHTING MEASURES

| | |
|----------------------------------|--|
| Suitable extinguishing media | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| Protective equipment for fire | Wear self contained breathing apparatus for fire fighting if necessary. |
| Hazardous Decomposition products | Carbon oxides |

Section VI. ACCIDENTAL RELEASE MEASURES

| | |
|---------------------------|---|
| Personal precautions | Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations. |
| Environmental precautions | Prevent further leakage or spillage if safe to do so. Do not let product enter drains. |
| Clean up | Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13). |

Section VII. HANDLING AND STORAGE

| | |
|-------------------------------|---|
| Precautions for safe handling | Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. |
| Storage Conditions | Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. |

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

| | | |
|-------|-----------------|--------------|
| Water | CAS#: 7732-18-5 | TWA: 500 ppm |
|-------|-----------------|--------------|

| | | | |
|---|------------------------|--|-----------------|
| Personal protective equipment | Respiratory protection | Handle with gloves. Gloves must be inspected prior to use. | Eye protection. |
| Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product. | | | |

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

| | | | |
|------------------------|-------|---|---|
| Boiling Point | 100°C | Specific Gravity (H ₂ O = 1) | 1 |
| Vapor Pressure (mm Hg) | | Melting Point | |

| | | | |
|-------------------------|---------------------|---|-----|
| Vapor Density (AIR = 1) | NA | Evaporation rate (Butyl Acetate = 1) | 0°C |
| Solubility in Water | Completely miscible | | NA |

Appearance and Odor CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
 Possibility of hazardous reactions NA
 Conditions to avoid NA
 Materials to avoid NA
 Hazardous decomposition products - No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat NA
 LC50 Inhalation - Rat NA
 LD50 Dermal - Guinea pig NA
 Causes skin irritation.
 Eye irritation

Section XII. ECOLOGICAL INFORMATION

LC50 NA
 EC50 NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
 Not dangerous goods
 Proper shipping name: Water

IATA
 Not dangerous goods
 Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Ref. 03/18/24



CERTIFIED WEIGHT REPORT

Part Number: 91980
 Lot Number: 031725
 Description: Acrolein

Solvent(s): Water Lot# 072324Q

5 via
 V14895 to
 V14899

Expiration Date: 04/17/25
 Recommended Storage: Refrigerate (4 °C)
 Nominal Concentration ($\mu\text{g/mL}$): 5000
 NIST Test ID#: 6UTB

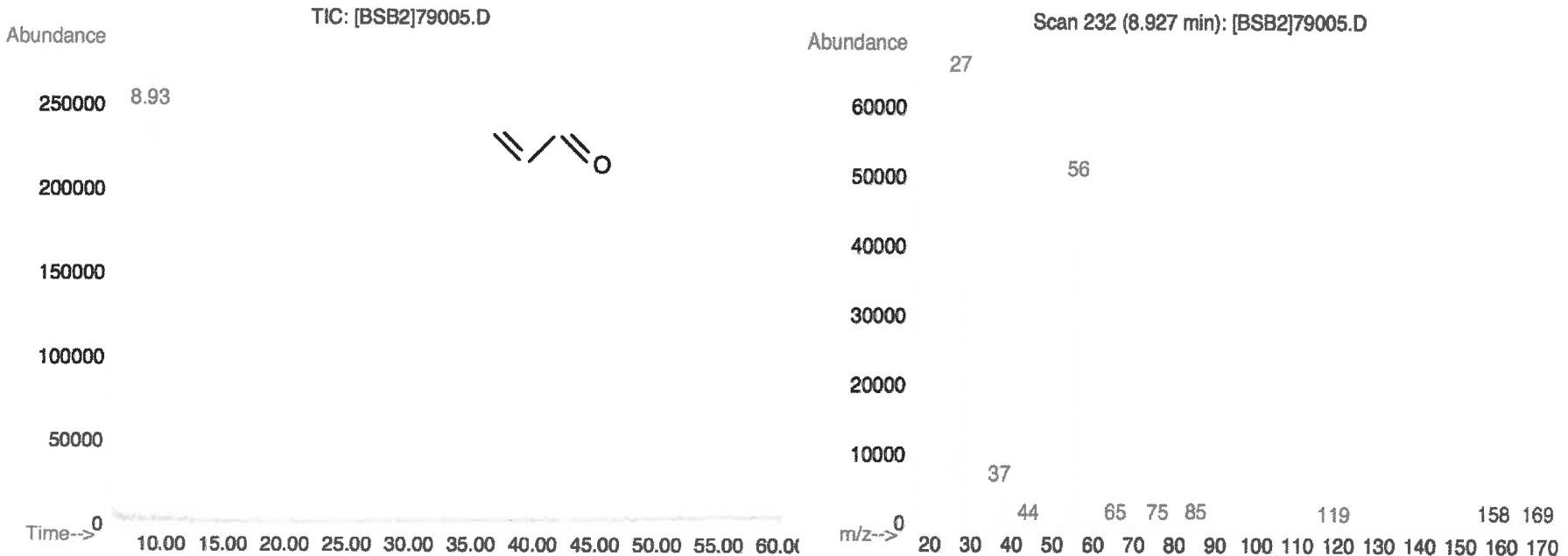
5E-05 Balance Uncertainty
 0.001 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0

| | |
|------------------------|-----------------|
| <i>Lawrence Barry</i> | 031725 |
| Formulated By: | Lawrence Barry |
| <i>Pedro L. Rentas</i> | 031725 |
| Reviewed By: | Pedro L. Rentas |

| Compound | RM# | Lot Number | Nominal Conc ($\mu\text{g/mL}$) | Purity (%) | Uncertainty Purity | Target Weight(g) | Actual Weight(g) | Actual Conc ($\mu\text{g/mL}$) | Expanded Uncertainty (+/-) ($\mu\text{g/mL}$) | SDS Information | | |
|-------------|-----|------------|-----------------------------------|------------|--------------------|------------------|------------------|----------------------------------|---|--|---------|-----------------|
| | | | | | | | | | | (Solvent Safety Info. On Attached pg.) | CAS# | OSHA PEL (TWA) |
| 1. Acrolein | 5 | 103755V10F | 5000 | 97 | 0.5 | 0.05166 | 0.05170 | 5004.1 | 52.5 | 107-02-8 | 0.1 ppm | orl-rat 46mg/kg |

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocil (60m X 0.25mm ID X 1.5 μm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) **Rate** = 4°C/min., **Injector Temp.** = 200°C, **Detector Temp.** = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5 % of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification**IDENTITY ANALYTICAL STANDARD DISSOLVED IN WATER**

| | | | |
|---------------------|-------------------------------------|--|--|
| Manufacturer's Name | ABSOLUTE STANDARDS INC | Emergency Telephone USA & CANADA | 1-800-535-5053 |
| Address | 44 Rossotto Dr. Hamden CT, 06514 | Emergency Telephone International Date Prepared/Revised | 1-352-323-3500 January 1, 2025 |

Section II - Hazards Identification**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

| | | | |
|----------|--------------------------------------|--------------|---|
| P271 | Use in ventilated area | H315 | Causes skin and eye irritation. |
| P302,332 | If on skin, wash with soap and water | P280 | Use gloves, eye protection/face shield |
| | | P305,351,338 | If in eyes, remove contacts, rinse with water |

**Signal Word: DANGER****Section III - Composition**

| | |
|---|--------------|
| Components (Specific Chemical Identity; Common Name(s)) | % (optional) |
| Water | > 97 |

CAS#: 7732-18-5

See Certified Weight Report For Other Analytes Present At Trace Quantities.**INTENDED USE: REFERENCE MATERIAL****Section IV. FIRST AID MEASURES**

| | |
|-------------------------|---|
| General advice | Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area. |
| If inhaled | If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| In case of skin contact | Wash with soap and water. Consult a physician. |
| In case of eye contact | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| If swallowed | Do NOT induce vomiting. Rinse mouth with water. Consult a physician. |

Section V. FIREFIGHTING MEASURES

| | |
|----------------------------------|--|
| Suitable extinguishing media | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| Protective equipment for fire | Wear self contained breathing apparatus for fire fighting if necessary. |
| Hazardous Decomposition products | Carbon oxides |

Section VI. ACCIDENTAL RELEASE MEASURES

| | |
|---------------------------|---|
| Personal precautions | Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations. |
| Environmental precautions | Prevent further leakage or spillage if safe to do so. Do not let product enter drains. |

Clean up

Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

| | |
|-------------------------------|---|
| Precautions for safe handling | Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. |
| Storage Conditions | Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. |

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water CAS#: 7732-18-5 TWA: 500 ppm

Personal protective equipment Respiratory protection Handie with gloves. Gloves must be inspected prior to use. Eye protection. Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

| | | | |
|------------------------|-------|---|---|
| Boiling Point | 100°C | Specific Gravity (H ₂ O = 1) | 1 |
| Vapor Pressure (mm Hg) | | Melting Point | |

| | | | |
|-------------------------|---------------------|---|-----|
| Vapor Density (AIR = 1) | NA | Evaporation rate (Butyl Acetate = 1) | 0°C |
| Solubility in Water | Completely miscible | | NA |

Appearance and Odor CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
 Possibility of hazardous reactions NA
 Conditions to avoid NA
 Materials to avoid NA
 Hazardous decomposition products - No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat NA
 LC50 Inhalation - Rat NA
 LD50 Dermal - Guinea pig NA
 Causes skin irritation.
 Eye irritation

Section XII. ECOLOGICAL INFORMATION

LC50 NA
 EC50 NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
 Not dangerous goods
 Proper shipping name: Water IATA
 Not dangerous goods
 Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Ref. 03/18/24



CERTIFIED WEIGHT REPORT

Part Number: 91980
 Lot Number: 031725
 Description: Acrolein

Solvent(s): Water Lot# 072324Q

5 via
 V14895 to
 V14899

Expiration Date: 04/17/25
 Recommended Storage: Refrigerate (4 °C)
 Nominal Concentration ($\mu\text{g/mL}$): 5000
 NIST Test ID#: 6UTB

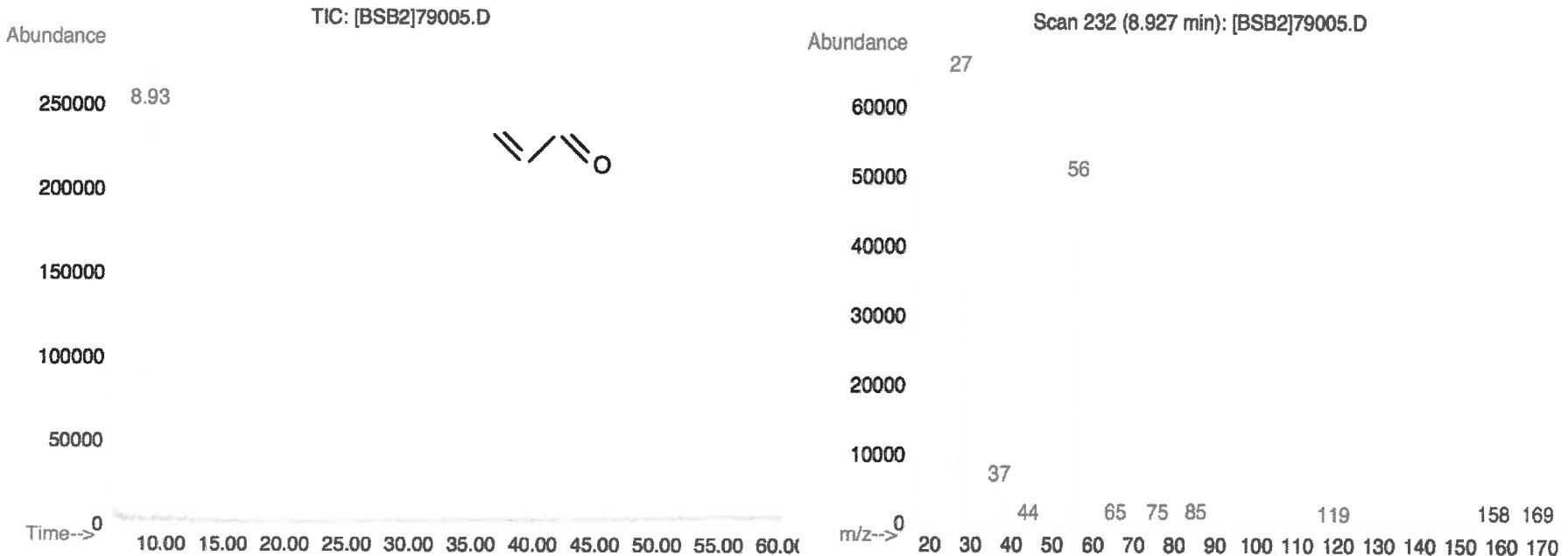
5E-05 Balance Uncertainty
 0.001 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0

| | |
|------------------------|-----------------|
| <i>Lawrence Barry</i> | 031725 |
| Formulated By: | Lawrence Barry |
| <i>Pedro L. Rentas</i> | 031725 |
| Reviewed By: | Pedro L. Rentas |

| Compound | RM# | Lot Number | Nominal Conc ($\mu\text{g/mL}$) | Purity (%) | Uncertainty Purity | Target Weight(g) | Actual Weight(g) | Actual Conc ($\mu\text{g/mL}$) | Expanded Uncertainty (+/-) ($\mu\text{g/mL}$) | SDS Information | | |
|-------------|-----|------------|-----------------------------------|------------|--------------------|------------------|------------------|----------------------------------|---|--|---------|-----------------|
| | | | | | | | | | | (Solvent Safety Info. On Attached pg.) | CAS# | OSHA PEL (TWA) |
| 1. Acrolein | 5 | 103755V10F | 5000 | 97 | 0.5 | 0.05166 | 0.05170 | 5004.1 | 52.5 | 107-02-8 | 0.1 ppm | orl-rat 46mg/kg |

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocil (60m X 0.25mm ID X 1.5 μm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) **Rate** = 4°C/min., **Injector Temp.** = 200°C, **Detector Temp.** = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5 % of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification**IDENTITY ANALYTICAL STANDARD DISSOLVED IN WATER**

| | | | |
|---------------------|-------------------------------------|-----------------------------------|-----------------------|
| Manufacturer's Name | ABSOLUTE STANDARDS INC | Emergency Telephone USA & CANADA | 1-800-535-5053 |
| Address | 44 Rossotto Dr. Hamden CT, 06514 | Emergency Telephone International | 1-352-323-3500 |
| | | Date Prepared/Revised | January 1, 2025 |

Section II - Hazards Identification**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

| | | | |
|----------|--------------------------------------|--------------|---|
| P271 | Use in ventilated area | H315 | Causes skin and eye irritation. |
| P302,332 | If on skin, wash with soap and water | P280 | Use gloves, eye protection/face shield |
| | | P305,351,338 | If in eyes, remove contacts, rinse with water |

**Signal Word: DANGER****Section III - Composition**

Components (Specific Chemical Identity; Common Name(s))
 Water % (optional)
 CAS#: 7732-18-5 > 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.**INTENDED USE: REFERENCE MATERIAL****Section IV. FIRST AID MEASURES**

| | |
|-------------------------|---|
| General advice | Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area. |
| If inhaled | If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| In case of skin contact | Wash with soap and water. Consult a physician. |
| In case of eye contact | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| If swallowed | Do NOT induce vomiting. Rinse mouth with water. Consult a physician. |

Section V. FIREFIGHTING MEASURES

| | |
|----------------------------------|--|
| Suitable extinguishing media | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| Protective equipment for fire | Wear self contained breathing apparatus for fire fighting if necessary. |
| Hazardous Decomposition products | Carbon oxides |

Section VI. ACCIDENTAL RELEASE MEASURES

| | |
|---------------------------|---|
| Personal precautions | Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations. |
| Environmental precautions | Prevent further leakage or spillage if safe to do so. Do not let product enter drains. |
| Clean up | Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13). |

Section VII. HANDLING AND STORAGE

| | |
|-------------------------------|---|
| Precautions for safe handling | Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. |
| Storage Conditions | Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. |

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

| | | |
|-------|-----------------|--------------|
| Water | CAS#: 7732-18-5 | TWA: 500 ppm |
|-------|-----------------|--------------|

| | | | |
|---|------------------------|--|-----------------|
| Personal protective equipment | Respiratory protection | Handle with gloves. Gloves must be inspected prior to use. | Eye protection. |
| Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product. | | | |

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

| | | | |
|------------------------|-------|---|---|
| Boiling Point | 100°C | Specific Gravity (H ₂ O = 1) | 1 |
| Vapor Pressure (mm Hg) | | Melting Point | |

| | | | |
|-------------------------|---------------------|---|-----|
| Vapor Density (AIR = 1) | NA | Evaporation rate (Butyl Acetate = 1) | 0°C |
| Solubility in Water | Completely miscible | | NA |

Appearance and Odor CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
 Possibility of hazardous reactions NA
 Conditions to avoid NA
 Materials to avoid NA
 Hazardous decomposition products - No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat NA
 LC50 Inhalation - Rat NA
 LD50 Dermal - Guinea pig NA
 Causes skin irritation.
 Eye irritation

Section XII. ECOLOGICAL INFORMATION

LC50 NA
 EC50 NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
 Not dangerous goods
 Proper shipping name: Water

IATA
 Not dangerous goods
 Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Ref. 03/18/24



CERTIFIED WEIGHT REPORT

Part Number: 91980
 Lot Number: 031725
 Description: Acrolein

Expiration Date: 04/17/25
 Recommended Storage: Refrigerate (4 °C)
 Nominal Concentration ($\mu\text{g/mL}$): 5000
 NIST Test ID#: 6UTB

Solvent(s): Water Lot# 072324Q

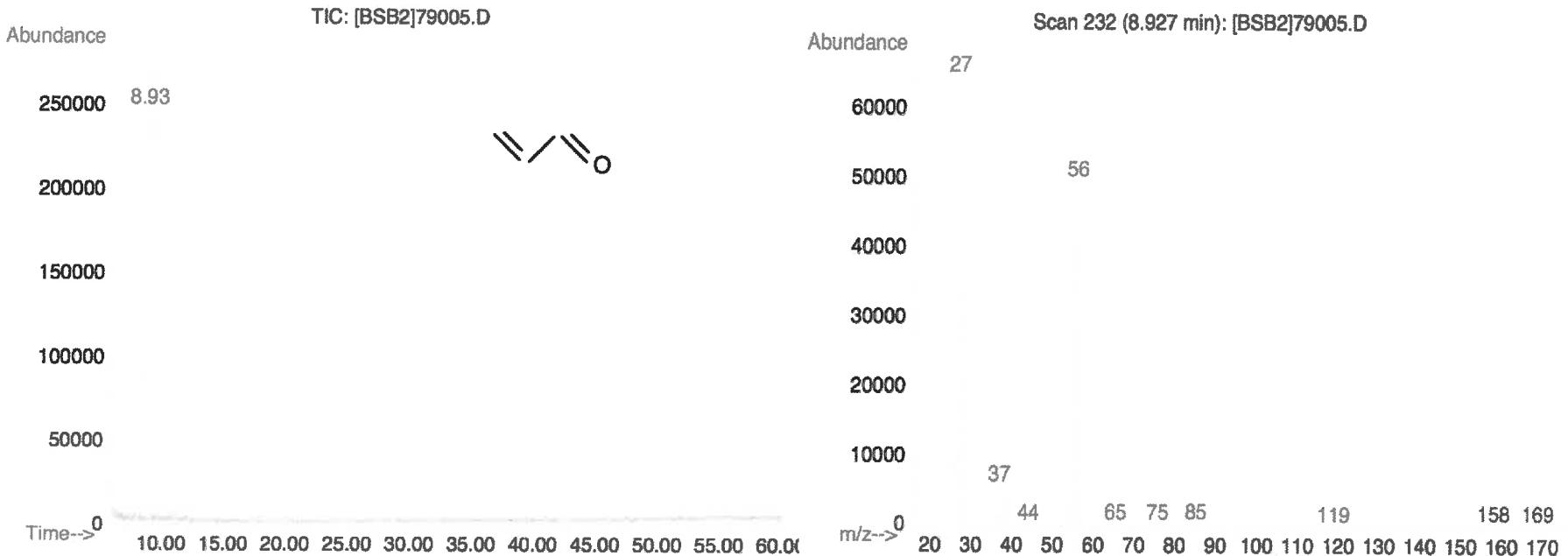
5 vial
V14895 to
V14899

Weight(s) shown below were combined and diluted to (mL): 10.0 5E-05 Balance Uncertainty
 0.001 Flask Uncertainty

| | |
|------------------------|-----------------|
| <i>Lawrence Barry</i> | <u>031725</u> |
| Formulated By: | Lawrence Barry |
| <i>Pedro L. Rentas</i> | <u>031725</u> |
| Reviewed By: | Pedro L. Rentas |

| Compound | RM# | Lot Number | Nominal Conc ($\mu\text{g/mL}$) | Purity (%) | Uncertainty Purity | Target Weight(g) | Actual Weight(g) | Actual Conc ($\mu\text{g/mL}$) | Expanded Uncertainty (+/-) ($\mu\text{g/mL}$) | SDS Information | | |
|-------------|-----|------------|-----------------------------------|------------|--------------------|------------------|------------------|----------------------------------|---|--|---------|-----------------|
| | | | | | | | | | | (Solvent Safety Info. On Attached pg.) | CAS# | OSHA PEL (TWA) |
| 1. Acrolein | 5 | 103755V10F | 5000 | 97 | 0.5 | 0.05166 | 0.05170 | 5004.1 | 52.5 | 107-02-8 | 0.1 ppm | orl-rat 46mg/kg |

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5 μm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) **Rate** = 4°C/min., **Injector Temp.** = 200°C, **Detector Temp.** = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5 % of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

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| Address | 44 Rossotto Dr. Hamden CT, 06514 | Emergency Telephone International | 1-352-323-3500 |
| | | Date Prepared/Revised | January 1, 2025 |

Section II - Hazards Identification**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

| | | | |
|----------|--------------------------------------|--------------|---|
| P271 | Use in ventilated area | H315 | Causes skin and eye irritation. |
| P302,332 | If on skin, wash with soap and water | P280 | Use gloves, eye protection/face shield |
| | | P305,351,338 | If in eyes, remove contacts, rinse with water |

**Signal Word: DANGER****Section III - Composition**

Components (Specific Chemical Identity; Common Name(s))
 Water % (optional)
 CAS#: 7732-18-5 > 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.**INTENDED USE: REFERENCE MATERIAL****Section IV. FIRST AID MEASURES**

| | |
|-------------------------|---|
| General advice | Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area. |
| If inhaled | If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| In case of skin contact | Wash with soap and water. Consult a physician. |
| In case of eye contact | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| If swallowed | Do NOT induce vomiting. Rinse mouth with water. Consult a physician. |

Section V. FIREFIGHTING MEASURES

| | |
|----------------------------------|--|
| Suitable extinguishing media | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| Protective equipment for fire | Wear self contained breathing apparatus for fire fighting if necessary. |
| Hazardous Decomposition products | Carbon oxides |

Section VI. ACCIDENTAL RELEASE MEASURES

| | |
|---------------------------|---|
| Personal precautions | Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations. |
| Environmental precautions | Prevent further leakage or spillage if safe to do so. Do not let product enter drains. |
| Clean up | Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13). |

Section VII. HANDLING AND STORAGE

| | |
|-------------------------------|---|
| Precautions for safe handling | Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. |
| Storage Conditions | Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. |

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

| | | |
|-------|-----------------|--------------|
| Water | CAS#: 7732-18-5 | TWA: 500 ppm |
|-------|-----------------|--------------|

| | | | |
|---|------------------------|--|-----------------|
| Personal protective equipment | Respiratory protection | Handle with gloves. Gloves must be inspected prior to use. | Eye protection. |
| Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product. | | | |

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

| | | | |
|------------------------|-------|---|---|
| Boiling Point | 100°C | Specific Gravity (H ₂ O = 1) | 1 |
| Vapor Pressure (mm Hg) | | Melting Point | |

| | | | |
|-------------------------|---------------------|---|-----|
| Vapor Density (AIR = 1) | NA | Evaporation rate (Butyl Acetate = 1) | 0°C |
| Solubility in Water | Completely miscible | | NA |

Appearance and Odor CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
 Possibility of hazardous reactions NA
 Conditions to avoid NA
 Materials to avoid NA
 Hazardous decomposition products - No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat NA
 LC50 Inhalation - Rat NA
 LD50 Dermal - Guinea pig NA
 Causes skin irritation.
 Eye irritation

Section XII. ECOLOGICAL INFORMATION

LC50 NA
 EC50 NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
 Not dangerous goods
 Proper shipping name: Water

IATA
 Not dangerous goods
 Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Dec 09/17/24

2 Uvof

CERTIFIED WEIGHT REPORT

Part Number: 91980
 Lot Number: 091424
 Description: Acrolein

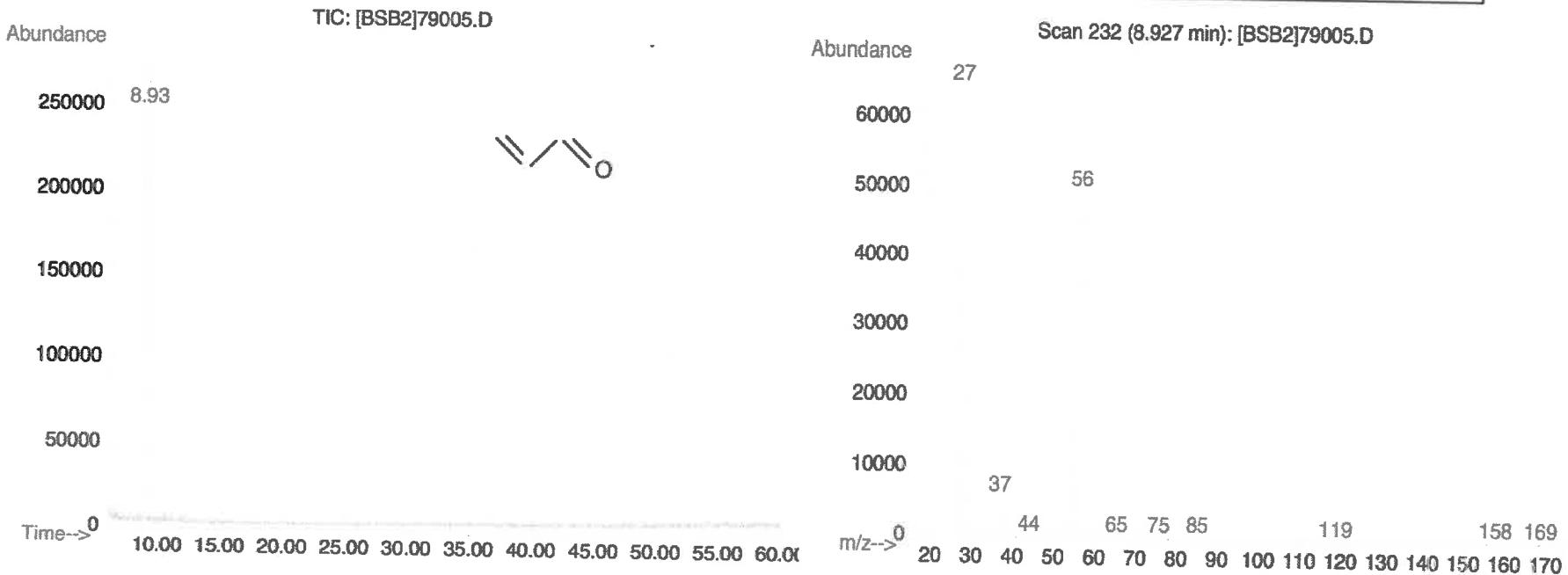
 Expiration Date: 101424
 Recommended Storage: Refrigerate (4 °C)
 Nominal Concentration ($\mu\text{g/mL}$): 5000
 NIST Test ID#: 6UTB
 Weight(s) shown below were combined and diluted to (mL): 10.0

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

| | |
|-------------------------------|------|
| | |
| 091424 | DATE |
| Formulated By: Justin Dippold | |
| | |
| 091424 | DATE |
| Reviewed By: Pedro L. Rentas | |

| Compound | RM# | Lot Number | Nominal Conc ($\mu\text{g/mL}$) | Purity (%) | Uncertainty Purity | Target Weight(g) | Actual Weight(g) | Actual Conc ($\mu\text{g/mL}$) | Expanded Uncertainty (+/-) ($\mu\text{g/mL}$) | SDS Information | | |
|-------------|-----|------------|-----------------------------------|------------|--------------------|------------------|------------------|----------------------------------|---|--|---------|-----------------|
| | | | | | | | | | | (Solvent Safety Info. On Attached pg.) | CAS# | OSHA PEL (TWA) |
| 1. Acrolein | 5 | 103755V10F | 5000 | 97 | 0.5 | 0.05166 | 0.05175 | 5008.9 | 52.5 | 107-02-8 | 0.1 ppm | orl-rat 46mg/kg |

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5 μm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.).
 Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately.
 Long term storage is not recommended. Please contact our technical department if further information is required.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5 % of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



Dec 09/17/24

2 Uvof

CERTIFIED WEIGHT REPORT

Part Number: 91980
 Lot Number: 091424
 Description: Acrolein

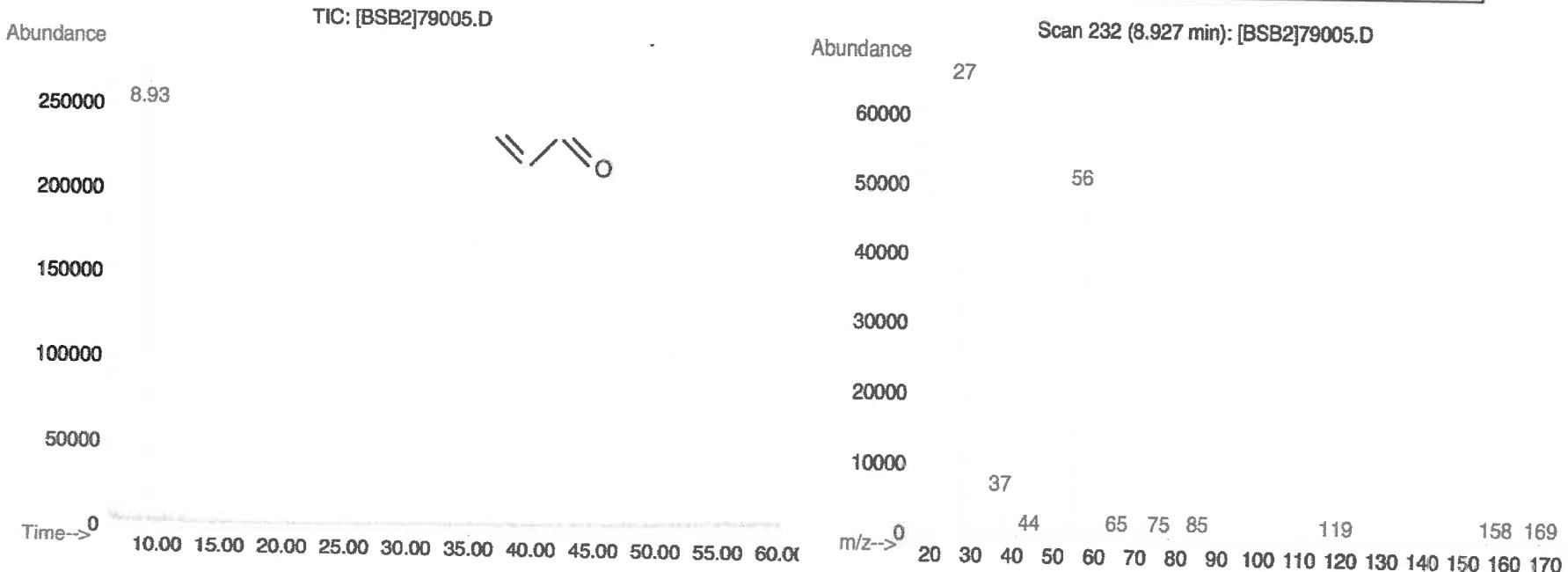
 Expiration Date: 101424
 Recommended Storage: Refrigerate (4 °C)
 Nominal Concentration ($\mu\text{g/mL}$): 5000
 NIST Test ID#: 6UTB
 Weight(s) shown below were combined and diluted to (mL): 10.0

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

| | |
|-------------------------------|------|
| | |
| 091424 | DATE |
| Formulated By: Justin Dippold | |
| | |
| 091424 | DATE |
| Reviewed By: Pedro L. Rentas | |

| Compound | RM# | Lot Number | Nominal Conc ($\mu\text{g/mL}$) | Purity (%) | Uncertainty Purity | Target Weight(g) | Actual Weight(g) | Actual Conc ($\mu\text{g/mL}$) | Expanded Uncertainty (+/-) ($\mu\text{g/mL}$) | SDS Information | | |
|-------------|-----|------------|-----------------------------------|------------|--------------------|------------------|------------------|----------------------------------|---|--|---------|-----------------|
| | | | | | | | | | | (Solvent Safety Info. On Attached pg.) | CAS# | OSHA PEL (TWA) |
| 1. Acrolein | 5 | 103755V10F | 5000 | 97 | 0.5 | 0.05166 | 0.05175 | 5008.9 | 52.5 | 107-02-8 | 0.1 ppm | orl-rat 46mg/kg |

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5 μm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.).
 Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately.
 Long term storage is not recommended. Please contact our technical department if further information is required.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5 % of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



Rec 12/16/24

20 vial



CERTIFIED WEIGHT REPORT

Part Number: 95318
 Lot Number: 120524
 Description: 2-Chloroethyl vinyl ether

Solvent(s): Methanol
 Lot# EJ143-US

Expiration Date: 120527
 Recommended Storage: Refrigerate (4 °C)
 Nominal Concentration ($\mu\text{g/mL}$): 10000
 NIST Test ID#: 6UTB

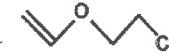
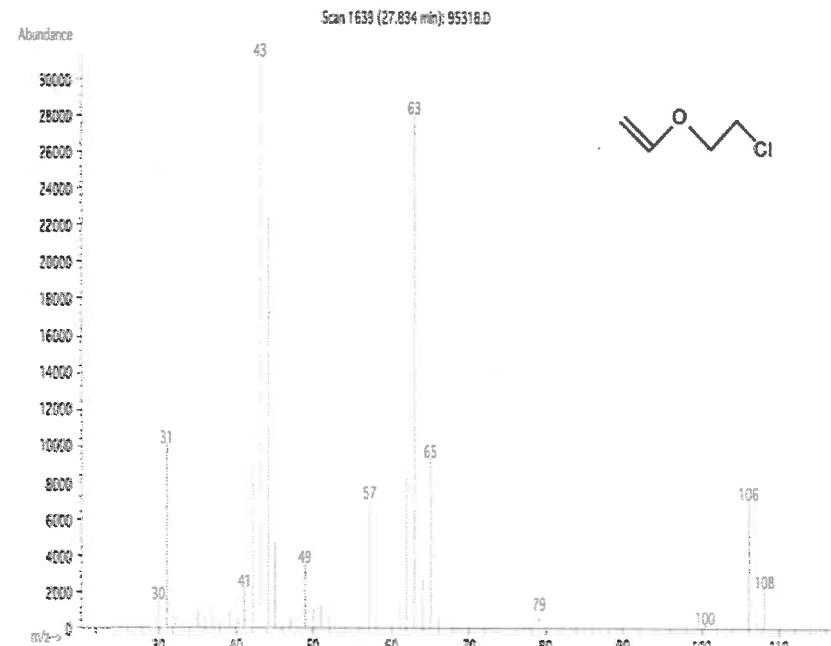
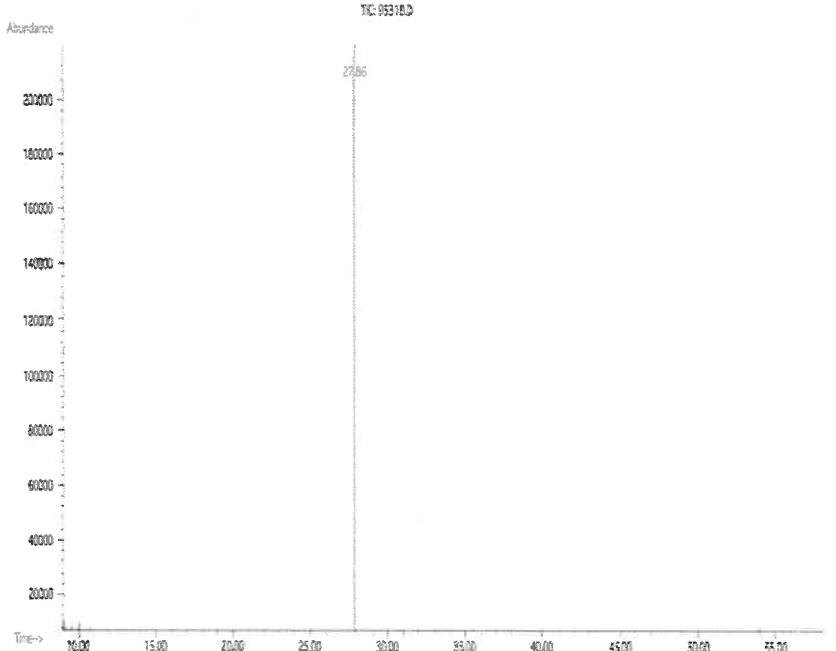
V14630 to
V14649

Weight(s) shown below were combined and diluted to (mL): 50.0 Balance Uncertainty 5E-05
 Flask Uncertainty 0.001

| | |
|-------------------------|------------------|
| <i>Prashant Chauhan</i> | 120524 |
| Formulated By: | Prashant Chauhan |
| <i>Pedro L. Rentas</i> | 120524 |
| Reviewed By: | Pedro L. Rentas |

| Compound | RM# | Lot Number | Nominal Conc ($\mu\text{g/mL}$) | Purity (%) | Uncertainty Purity | Target Weight (g) | Actual Weight (g) | Actual Conc($\mu\text{g/mL}$) | Expanded Uncertainty (+/-) ($\mu\text{g/mL}$) | SDS Information | | | |
|------------------------------|-----|------------|-----------------------------------|------------|--------------------|-------------------|-------------------|---------------------------------|---|-----------------|---------------------------------------|-------------------|------|
| | | | | | | | | | | CAS# | Solvent Safety Info. On Attached pg.) | OSHA PEL (TWA) | LD50 |
| 1. 2-Chloroethyl vinyl ether | 74 | MKCD0033 | 10000 | 99 | 0.2 | 0.50536 | 0.50550 | 10002.9 | 40.5 | 110-75-8 | N/A | oral-rat 250mg/kg | |

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 μm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min.,
 Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified ($\pm 0.5\%$ of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

| | | | |
|---------------------|-------------------------------------|--|--|
| Manufacturer's Name | ABSOLUTE STANDARDS INC | Emergency Telephone USA & CANADA | 1-800-535-5053 |
| Address | 44 Rossotto Dr. Hamden CT, 06514 | Emergency Telephone International Date Prepared/Revised | 1-352-323-3500 January 1, 2024 |

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

| | | | |
|----------|--------------------------------------|----------------|---|
| H225 | Highly Flammable Liquid and Vapor | H301, 311, 331 | Toxic if swallowed, skin contact, inhaled |
| H370 | Cause damage to organs | H351 | Suspected of causing cancer |
| P271 | Use in ventilated area | P280 | Use gloves, eye protection/face shield |
| P302,332 | If on skin, wash with soap and water | P305,351,338 | If in eyes, remove contacts, rinse with water |



Signal Word: DANGER

Section III - Composition

CAS#: 67-56-1

% (optional)
 > 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact Wash with soap and water. Consult a physician.
In case of eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

| | |
|-------------------------------|--|
| Precautions for safe handling | Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. |
| Storage Conditions | Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. |

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection. Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

| | | | |
|-------------------------|---|---|-------|
| Boiling Point | | Specific Gravity (H ₂ O = 1) | |
| Vapor Pressure (mm Hg) | 65°C | Melting Point | 0.79 |
| Vapor Density (AIR = 1) | 96 | Evaporation rate (Butyl Acetate = 1) | -98°C |
| Solubility in Water | 1.11 | | 4.6 |
| Solubility in Water | COMPLETE | | |
| Appearance and Odor | CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR. | | |

Section X. STABILITY AND REACTIVITY

Chemical stability: Stable under recommended storage conditions.
 Possibility of hazardous reactions: Vapours may form explosive mixture with air.
 Conditions to avoid: Heat, flames, sparks, extreme temperature and sunlight.
 Materials to avoid: Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
 Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
 LC50 Inhalation - rat - 4 h - 64000 ppm
 LD50 Dermal - rabbit - 15,800 mg/kg
 Toxic if absorbed through skin. Causes skin irritation.
 Eye damage/eye irritation
 Toxic if inhaled. Causes respiratory tract irritation.
 Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
 EC50 24,500.00 mg/l - 48 h
 EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US) IATA
 UN number: 1230 Class: 3 Packing group: II
 Proper shipping name: Methanol
 UN number: 1230 Class: 3 Packing group: II
 Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
 SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Rec 12/16/24

20 vial



CERTIFIED WEIGHT REPORT

Part Number: 95318
 Lot Number: 120524
 Description: 2-Chloroethyl vinyl ether

Solvent(s): Methanol Lot# EJ143-US

Expiration Date: 120527
 Recommended Storage: Refrigerate (4 °C)
 Nominal Concentration ($\mu\text{g/mL}$): 10000
 NIST Test ID#: 6UTB

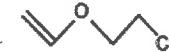
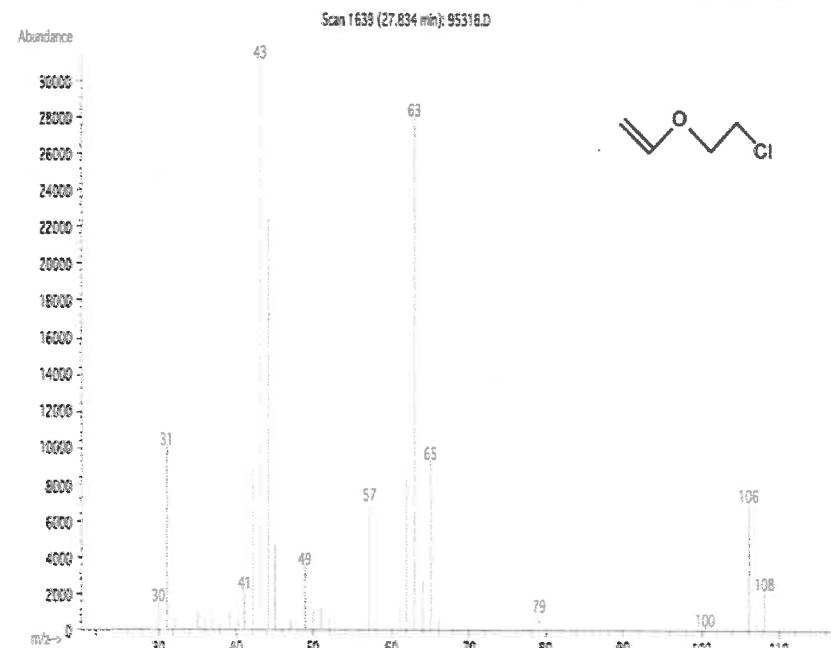
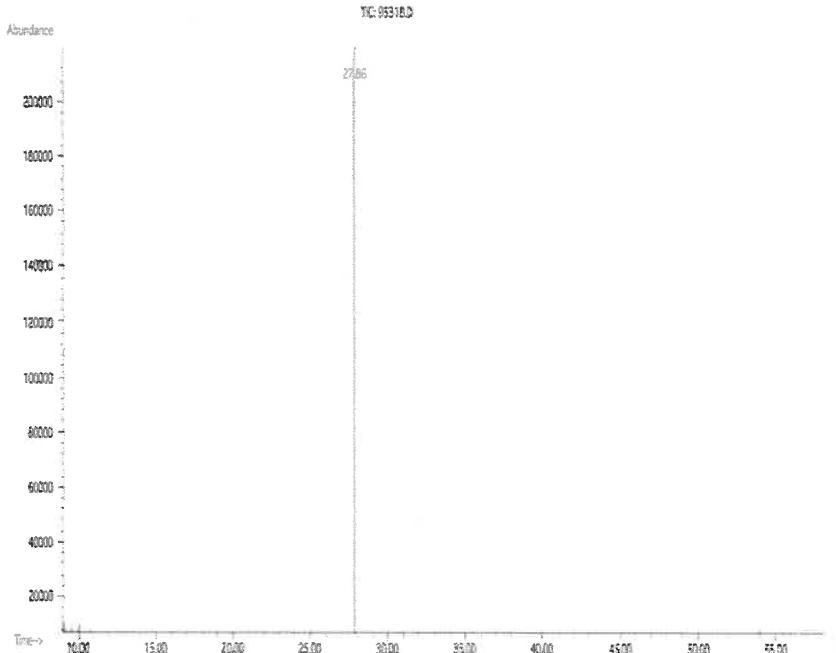
V14630 to
V14649

Weight(s) shown below were combined and diluted to (mL): 50.0 Balance Uncertainty 5E-05
 Flask Uncertainty 0.001

| | |
|-------------------------|------------------|
| <i>Prashant Chauhan</i> | 120524 |
| Formulated By: | Prashant Chauhan |
| <i>Pedro L. Rentas</i> | 120524 |
| Reviewed By: | Pedro L. Rentas |

| Compound | RM# | Lot Number | Nominal Conc ($\mu\text{g/mL}$) | Purity (%) | Uncertainty Purity | Target Weight (g) | Actual Weight (g) | Actual Conc($\mu\text{g/mL}$) | Expanded Uncertainty (+/-) ($\mu\text{g/mL}$) | SDS Information | | | |
|------------------------------|-----|------------|-----------------------------------|------------|--------------------|-------------------|-------------------|---------------------------------|---|-----------------|---------------------------------------|-------------------|------|
| | | | | | | | | | | CAS# | Solvent Safety Info. On Attached pg.) | OSHA PEL (TWA) | LD50 |
| 1. 2-Chloroethyl vinyl ether | 74 | MKCD0033 | 10000 | 99 | 0.2 | 0.50536 | 0.50550 | 10002.9 | 40.5 | 110-75-8 | N/A | oral-rat 250mg/kg | |

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 μm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified ($\pm 0.5\%$ of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

| | | | |
|---------------------|-------------------------------------|--|--|
| Manufacturer's Name | ABSOLUTE STANDARDS INC | Emergency Telephone USA & CANADA | 1-800-535-5053 |
| Address | 44 Rossotto Dr. Hamden CT, 06514 | Emergency Telephone International Date Prepared/Revised | 1-352-323-3500 January 1, 2024 |

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

| | | | |
|----------|--------------------------------------|----------------|---|
| H225 | Highly Flammable Liquid and Vapor | H301, 311, 331 | Toxic if swallowed, skin contact, inhaled |
| H370 | Cause damage to organs | H351 | Suspected of causing cancer |
| P271 | Use in ventilated area | P280 | Use gloves, eye protection/face shield |
| P302,332 | If on skin, wash with soap and water | P305,351,338 | If in eyes, remove contacts, rinse with water |



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))
Methanol METHYL ALCOHOL

CAS#: 67-56-1

% (optional)
 > 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact Wash with soap and water. Consult a physician.
In case of eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

| | |
|---------------------------|---|
| Personal precautions | Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations. |
| Environmental precautions | Prevent further leakage or spillage if safe to do so. Do not let product enter drains. |
| Clean up | Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13). |

Section VII. HANDLING AND STORAGE

| | |
|-------------------------------|--|
| Precautions for safe handling | Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. |
| Storage Conditions | Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. |

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

| | | | |
|-------------------------|---|---|-------|
| Boiling Point | | Specific Gravity (H ₂ O = 1) | |
| Vapor Pressure (mm Hg) | 65°C | Melting Point | 0.79 |
| Vapor Density (AIR = 1) | 96 | Evaporation rate (Butyl Acetate = 1) | -98°C |
| Solubility in Water | 1.11 | | 4.6 |
| Solubility in Water | COMPLETE | | |
| Appearance and Odor | CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR. | | |

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
 Possibility of hazardous reactions Vapours may form explosive mixture with air.
 Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
 Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
 Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
 LC50 Inhalation - rat - 4 h - 64000 ppm
 LD50 Dermal - rabbit - 15,800 mg/kg
 Toxic if absorbed through skin. Causes skin irritation.
 Eye damage/eye irritation
 Toxic if inhaled. Causes respiratory tract irritation.
 Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
 EC50 24,500.00 mg/l - 48 h
 EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US) IATA
 UN number: 1230 Class: 3 Packing group: II
 Proper shipping name: Methanol
 UN number: 1230 Class: 3 Packing group: II
 Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
 SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Rec 12/16/24

20 vial



CERTIFIED WEIGHT REPORT

Part Number: 95318
 Lot Number: 120524
 Description: 2-Chloroethyl vinyl ether

Solvent(s): Methanol Lot# EJ143-US

Expiration Date: 120527
 Recommended Storage: Refrigerate (4 °C)
 Nominal Concentration ($\mu\text{g/mL}$): 10000
 NIST Test ID#: 6UTB

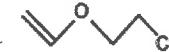
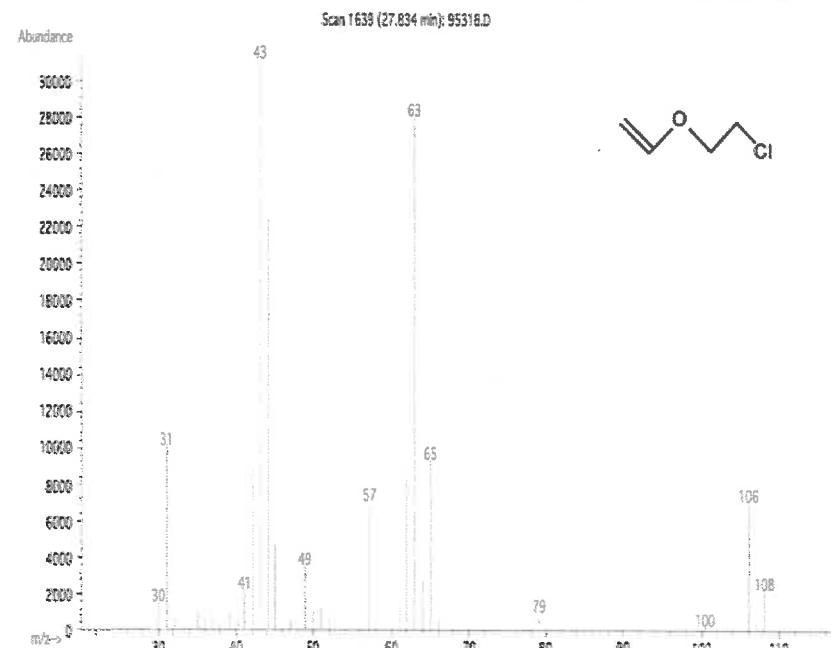
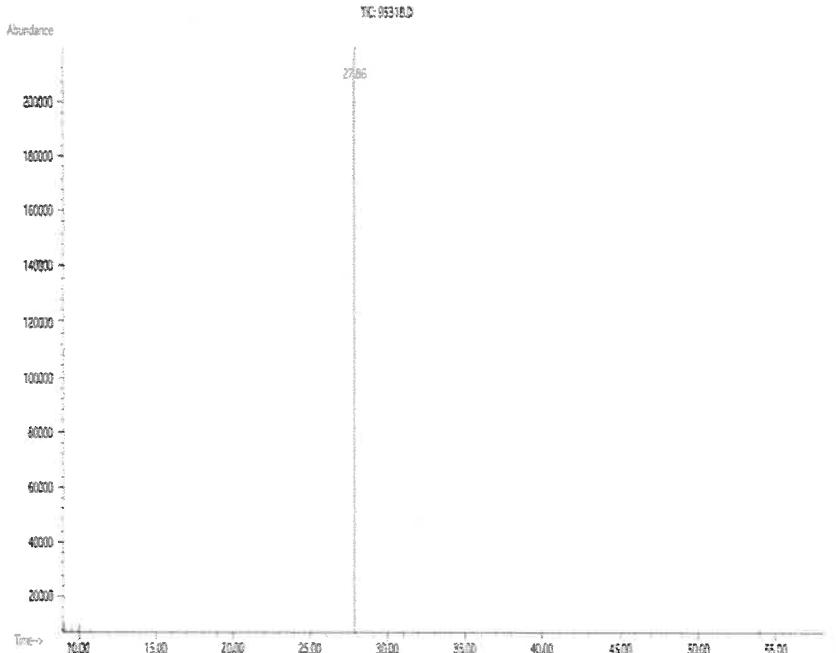
V14630 to
V14649

Weight(s) shown below were combined and diluted to (mL): 50.0 Balance Uncertainty 5E-05
 Flask Uncertainty 0.001

| | |
|-------------------------|------------------|
| <i>Prashant Chauhan</i> | 120524 |
| Formulated By: | Prashant Chauhan |
| <i>Pedro L. Rentas</i> | 120524 |
| Reviewed By: | Pedro L. Rentas |

| Compound | RM# | Lot Number | Nominal Conc ($\mu\text{g/mL}$) | Purity (%) | Uncertainty Purity | Target Weight (g) | Actual Weight (g) | Actual Conc($\mu\text{g/mL}$) | Expanded Uncertainty (+/-) ($\mu\text{g/mL}$) | SDS Information | | | |
|------------------------------|-----|------------|-----------------------------------|------------|--------------------|-------------------|-------------------|---------------------------------|---|-----------------|---------------------------------------|-------------------|------|
| | | | | | | | | | | CAS# | Solvent Safety Info. On Attached pg.) | OSHA PEL (TWA) | LD50 |
| 1. 2-Chloroethyl vinyl ether | 74 | MKCD0033 | 10000 | 99 | 0.2 | 0.50536 | 0.50550 | 10002.9 | 40.5 | 110-75-8 | N/A | oral-rat 250mg/kg | |

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 μm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min.,
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Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

| | | | |
|---------------------|-------------------------------------|--|--|
| Manufacturer's Name | ABSOLUTE STANDARDS INC | Emergency Telephone USA & CANADA | 1-800-535-5053 |
| Address | 44 Rossotto Dr. Hamden CT, 06514 | Emergency Telephone International Date Prepared/Revised | 1-352-323-3500 January 1, 2024 |

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

| | | | |
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| H370 | Cause damage to organs | H351 | Suspected of causing cancer |
| P271 | Use in ventilated area | P280 | Use gloves, eye protection/face shield |
| P302,332 | If on skin, wash with soap and water | P305,351,338 | If in eyes, remove contacts, rinse with water |



Signal Word: DANGER

Section III - Composition

CAS#: 67-56-1

% (optional)
 > 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
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Section V. FIREFIGHTING MEASURES

Flammability Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
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| Personal precautions | Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations. |
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Skin notation TWA 200 ppm
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| | | | |
|-------------------------|---|---|-------|
| Boiling Point | | Specific Gravity (H ₂ O = 1) | |
| Vapor Pressure (mm Hg) | 65°C | Melting Point | 0.79 |
| Vapor Density (AIR = 1) | 96 | Evaporation rate (Butyl Acetate = 1) | -98°C |
| Solubility in Water | 1.11 | | 4.6 |
| Solubility in Water | COMPLETE | | |
| Appearance and Odor | CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR. | | |

Section X. STABILITY AND REACTIVITY

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LC50 15,400 mg/l - 96 h
 EC50 24,500.00 mg/l - 48 h
 EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US) IATA
 UN number: 1230 Class: 3 Packing group: II
 Proper shipping name: Methanol
 UN number: 1230 Class: 3 Packing group: II
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Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
 SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Rec 12/16/24

20 vial



CERTIFIED WEIGHT REPORT

Part Number: 95318
 Lot Number: 120524
 Description: 2-Chloroethyl vinyl ether

Solvent(s): Methanol
 Lot# EJ143-US

Expiration Date: 120527
 Recommended Storage: Refrigerate (4 °C)
 Nominal Concentration ($\mu\text{g/mL}$): 10000
 NIST Test ID#: 6UTB

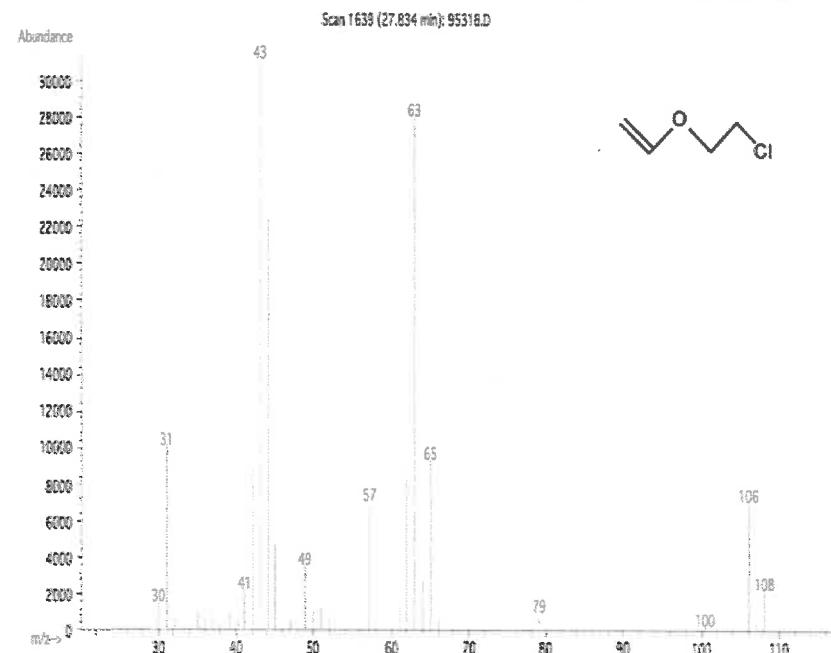
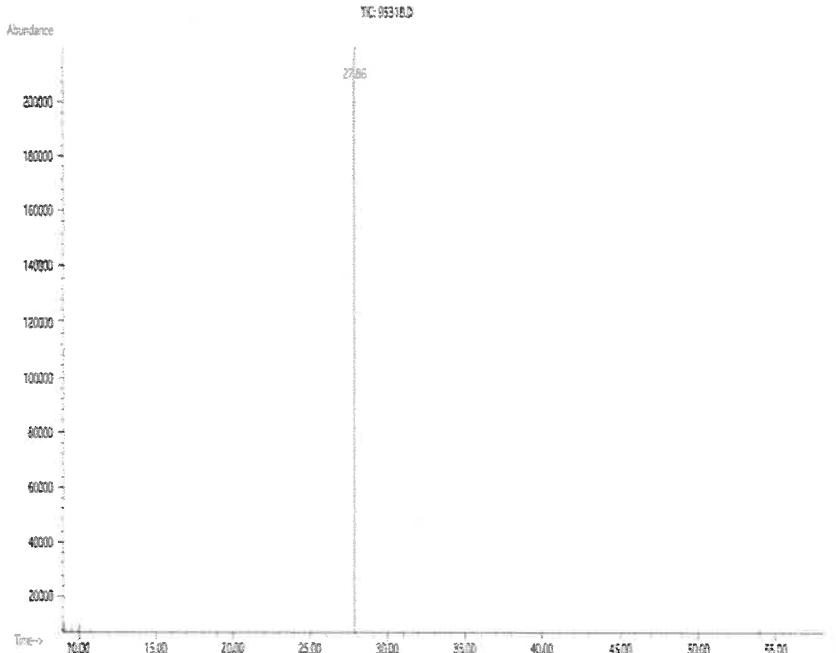
V14630 to
V14649

Weight(s) shown below were combined and diluted to (mL): 50.0 Balance Uncertainty 5E-05
 Flask Uncertainty 0.001

| | |
|-------------------------|------------------|
| <i>Prashant Chauhan</i> | 120524 |
| Formulated By: | Prashant Chauhan |
| <i>Pedro L. Rentas</i> | 120524 |
| Reviewed By: | Pedro L. Rentas |

| Compound | RM# | Lot Number | Nominal Conc ($\mu\text{g/mL}$) | Purity (%) | Uncertainty Purity | Target Weight (g) | Actual Weight (g) | Actual Conc($\mu\text{g/mL}$) | Expanded Uncertainty (+/-) ($\mu\text{g/mL}$) | SDS Information | | | |
|------------------------------|-----|------------|-----------------------------------|------------|--------------------|-------------------|-------------------|---------------------------------|---|-----------------|---------------------------------------|-------------------|------|
| | | | | | | | | | | CAS# | Solvent Safety Info. On Attached pg.) | OSHA PEL (TWA) | LD50 |
| 1. 2-Chloroethyl vinyl ether | 74 | MKCD0033 | 10000 | 99 | 0.2 | 0.50536 | 0.50550 | 10002.9 | 40.5 | 110-75-8 | N/A | oral-rat 250mg/kg | |

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 μm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified ($\pm 0.5\%$ of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

| | | | |
|---------------------|-------------------------------------|--|--|
| Manufacturer's Name | ABSOLUTE STANDARDS INC | Emergency Telephone USA & CANADA | 1-800-535-5053 |
| Address | 44 Rossotto Dr. Hamden CT, 06514 | Emergency Telephone International Date Prepared/Revised | 1-352-323-3500 January 1, 2024 |

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

| | | | |
|----------|--------------------------------------|----------------|---|
| H225 | Highly Flammable Liquid and Vapor | H301, 311, 331 | Toxic if swallowed, skin contact, inhaled |
| H370 | Cause damage to organs | H351 | Suspected of causing cancer |
| P271 | Use in ventilated area | P280 | Use gloves, eye protection/face shield |
| P302,332 | If on skin, wash with soap and water | P305,351,338 | If in eyes, remove contacts, rinse with water |



Signal Word: DANGER

Section III - Composition

CAS#: 67-56-1

% (optional)
 > 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact Wash with soap and water. Consult a physician.
In case of eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

| | |
|---------------------------|---|
| Personal precautions | Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations. |
| Environmental precautions | Prevent further leakage or spillage if safe to do so. Do not let product enter drains. |
| Clean up | Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13). |

Section VII. HANDLING AND STORAGE

| | |
|-------------------------------|---|
| Precautions for safe handling | Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. |
| Storage Conditions | Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. |

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

| | | | |
|-------------------------|---|---|-------|
| Boiling Point | | Specific Gravity (H ₂ O = 1) | |
| Vapor Pressure (mm Hg) | 65°C | Melting Point | 0.79 |
| Vapor Density (AIR = 1) | 96 | Evaporation rate (Butyl Acetate = 1) | -98°C |
| Solubility in Water | 1.11 | | 4.6 |
| Solubility in Water | COMPLETE | | |
| Appearance and Odor | CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR. | | |

Section X. STABILITY AND REACTIVITY

Chemical stability: Stable under recommended storage conditions.
 Possibility of hazardous reactions: Vapours may form explosive mixture with air.
 Conditions to avoid: Heat, flames, sparks, extreme temperature and sunlight.
 Materials to avoid: Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
 Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
 LC50 Inhalation - rat - 4 h - 64000 ppm
 LD50 Dermal - rabbit - 15,800 mg/kg
 Toxic if absorbed through skin. Causes skin irritation.
 Eye damage/eye irritation
 Toxic if inhaled. Causes respiratory tract irritation.
 Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
 EC50 24,500.00 mg/l - 48 h
 EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US) IATA
 UN number: 1230 Class: 3 Packing group: II
 Proper shipping name: Methanol
 UN number: 1230 Class: 3 Packing group: II
 Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
 SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

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110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL



ILAC-MRA
ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01



ILAC-MRA
ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis *chromatographic plus*

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30067

Lot No.: A0191805

Description : 4-Bromofluorobenzene Standard

4-Bromofluorobenzene Standard 2,500 μ g/mL, P&T Methanol,
1mL/ampul

Container Size : 2 mL

Pkg Amt: > 1 mL

Expiration Date : November 30, 2027

Storage: 0°C or colder

Ship: Ambient

C E R T I F I E D V A L U E S

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|-------------------------------|----------|--------|--------|--------------------------------|---|
| 1 | 1-Bromo-4-fluorobenzene (BFB) | 460-00-4 | 184975 | 99% | 2,483.9 μ g/mL | +/- 139.5488 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0 μ m
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

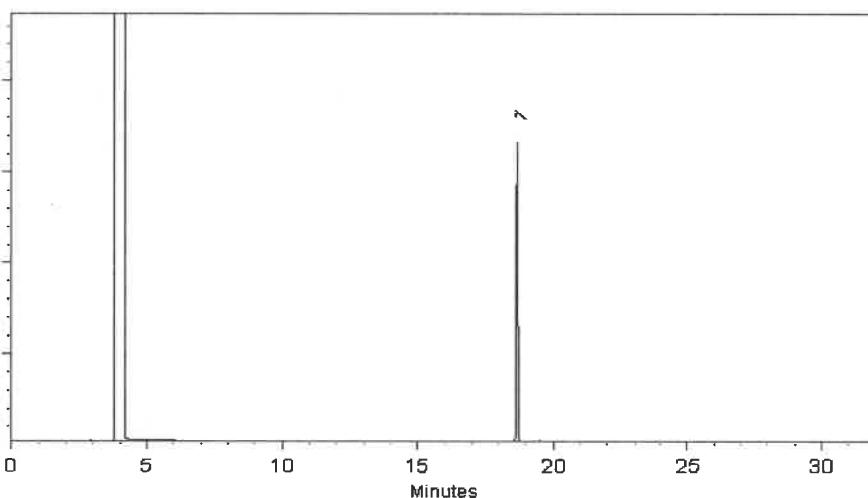
FID

Split Vent:

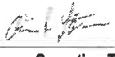
40 ml/min

Inj. Vol

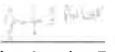
1 μ l



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Alicia Leathers - Operation Technician I

Date Mixed: 17-Nov-2022 Balance Serial #: B251644995


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 21-Nov-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{\text{combined uncertainty}} = k \sqrt{u_{\text{gravimetric}}^2 + u_{\text{homogeneity}}^2 + u_{\text{storage stability}}^2 + u_{\text{shipping stability}}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309
www.restek.com

CERTIFIED REFERENCE MATERIAL



Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.: 30225 **Lot No.:** A0193071
Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : December 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

C E R T I F I E D V A L U E S

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|--------------------|---------|----------|--------|-----------------------------|--|
| 1 | Bromochloromethane | 74-97-5 | 00008541 | 99% | 2,018.0 µg/mL | +/- 113.3890 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0 μ m
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

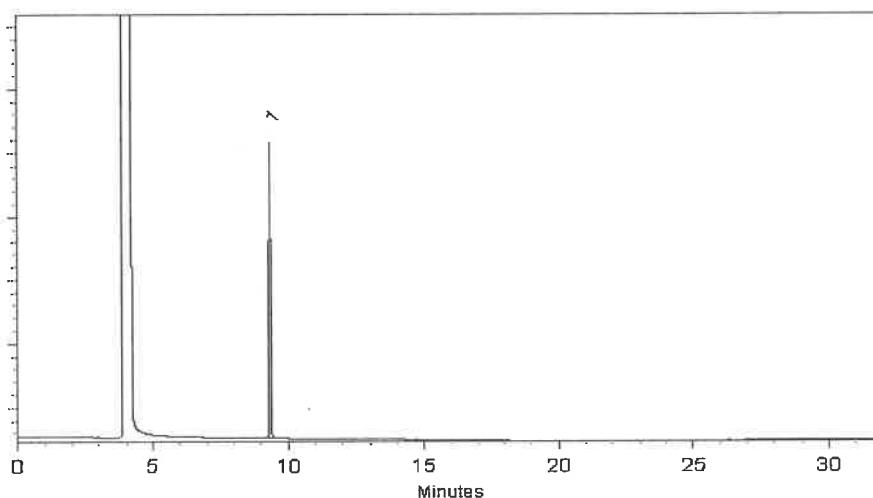
FID

Split Vent:

40 ml/min

Inj. Vol

1 μ l



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Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 Balance Serial #: B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

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Manufacturing Notes:

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Handling Notes:

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chromatographic plus

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Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : December 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

C E R T I F I E D V A L U E S

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CAS # 67-56-1
Purity 99%

Quality Confirmation Test

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Rtx-502.2 (cat.#10910)

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hydrogen-constant pressure 11.0 psi.

Temp. Program:

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@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

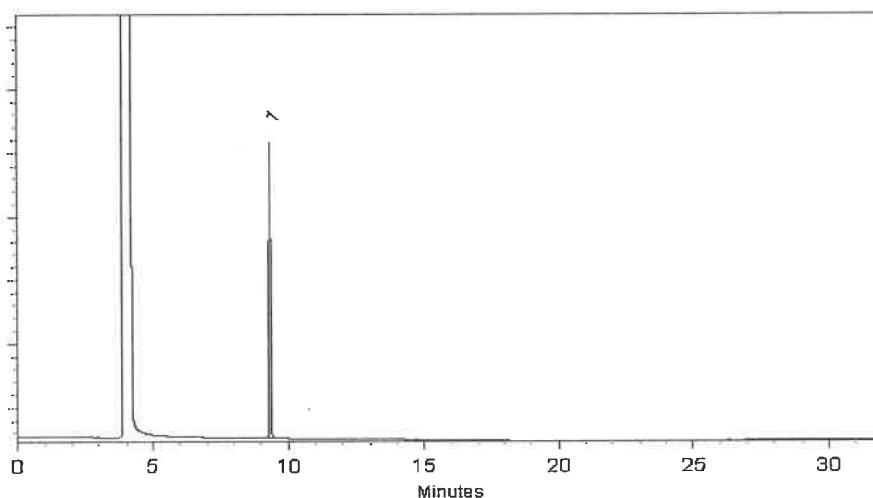
FID

Split Vent:

40 ml/min

Inj. Vol

1 μ l



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Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 Balance Serial #: B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

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Bromochloromethane 2000 μ g/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : December 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

C E R T I F I E D V A L U E S

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
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* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0 μ m
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

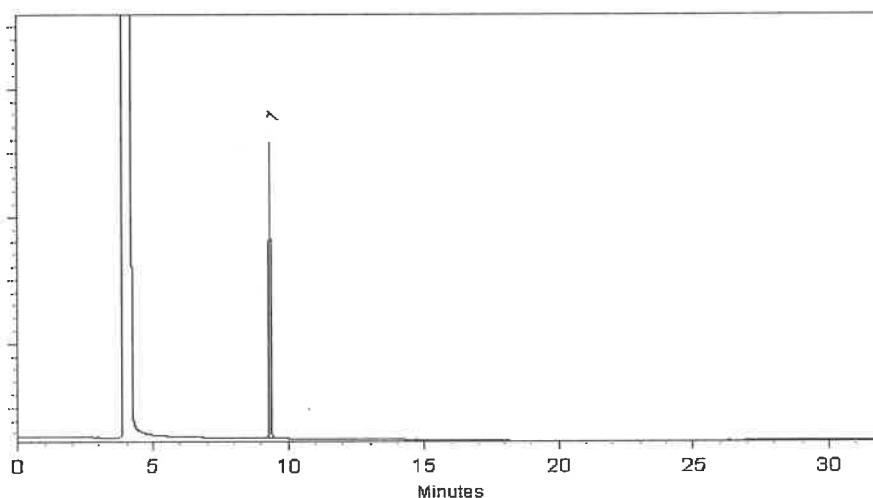
FID

Split Vent:

40 ml/min

Inj. Vol

1 μ l



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Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 Balance Serial #: B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{\text{combined uncertainty}} = k \sqrt{u_{\text{gravimetric}}^2 + u_{\text{homogeneity}}^2 + u_{\text{storage stability}}^2 + u_{\text{shipping stability}}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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CERTIFIED REFERENCE MATERIAL



Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.: 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard
Bromochloromethane 2000 μ g/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : December 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

C E R T I F I E D V A L U E S

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|--------------------|---------|----------|--------|-----------------------------|--|
| 1 | Bromochloromethane | 74-97-5 | 00008541 | 99% | 2,018.0 μ g/mL | +/- 113.3890 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0 μ m
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

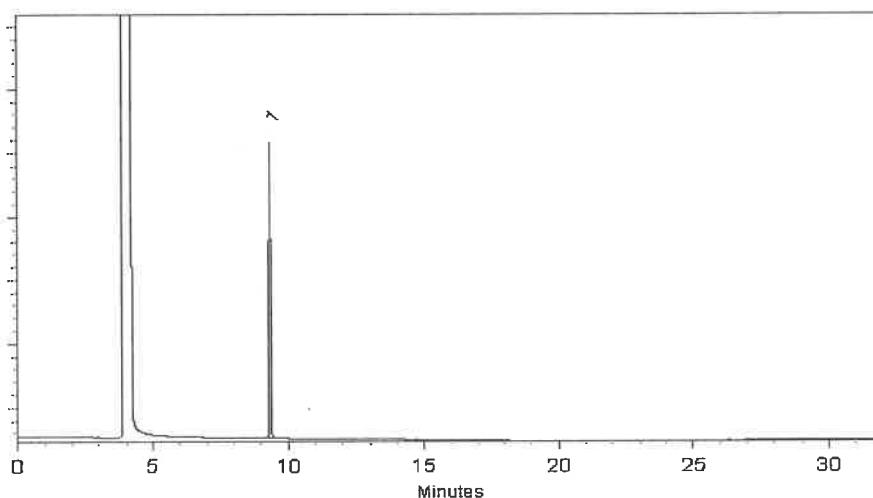
FID

Split Vent:

40 ml/min

Inj. Vol

1 μ l



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 Balance Serial #: B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

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Manufacturing Notes:

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Handling Notes:

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gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555582

Lot No.: A0196865

Description : Custom 8260A/B Surrogate Mix

Custom 8260A/B Surrogate Mix 25,000 μ g/mL, P&T Methanol,
1mL/ampul

Container Size : 2 mL

Pkg Amt: > 1 mL

Expiration Date : April 30, 2026

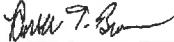
Storage: 10°C or colder

Ship: Ambient

C E R T I F I E D V A L U E S

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|-------------|-------------------------------|------------|----------|--------|--------------------------------|---|
| 1 | 1,2-Dichloroethane-d4 | 17060-07-0 | PR-32845 | 99% | 25,036.0 μ g/mL | +/- 1,417.9179 |
| 2 | 1-Bromo-4-fluorobenzene (BFB) | 460-00-4 | 184975 | 99% | 25,132.0 μ g/mL | +/- 1,423.3549 |
| 3 | Dibromofluoromethane | 1868-53-7 | 022013 | 99% | 25,040.0 μ g/mL | +/- 1,418.1445 |
| 4 | Toluene-d8 | 2037-26-5 | PR-33397 | 99% | 25,028.0 μ g/mL | +/- 1,417.4648 |

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%


Russ Bookhamer - Operations Technician

Date Mixed: 11-Apr-2023 Balance: 1127510105

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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Purity Notes:

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Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489

Lot No.: A0209618

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL

Pkg Amt: > 1 mL

Expiration Date : September 30, 2025

Storage: -20°C or colder

Handling: This product is photosensitive.

Ship: On Ice

C E R T I F I E D V A L U E S

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) |
|---------------|-------------------|----------|-------------|--------|--------------------------------|---|
| 1 | Methyl acetate | 79-20-9 | SHBP3100 | 99% | 2,019.3 µg/mL | +/- 69.7974 |
| 2 | Vinyl acetate | 108-05-4 | RP231030CTH | 98% | 2,016.8 µg/mL | +/- 69.7112 |
| 3 | Ethyl acetate | 141-78-6 | SHBQ9682 | 99% | 2,010.7 µg/mL | +/- 69.4979 |
| 4 | Isopropyl acetate | 108-21-4 | BCCG7069 | 99% | 2,016.0 µg/mL | +/- 69.6822 |
| 5 | Propyl acetate | 109-60-4 | P8XLN | 99% | 2,008.0 µg/mL | +/- 69.4057 |
| 6 | Butyl acetate | 123-86-4 | SHBP6314 | 99% | 2,007.3 µg/mL | +/- 69.3826 |
| 7 | Amyl acetate | 628-63-7 | 41325/1 | 97% | 2,004.7 µg/mL | +/- 69.2905 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0 μ m
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

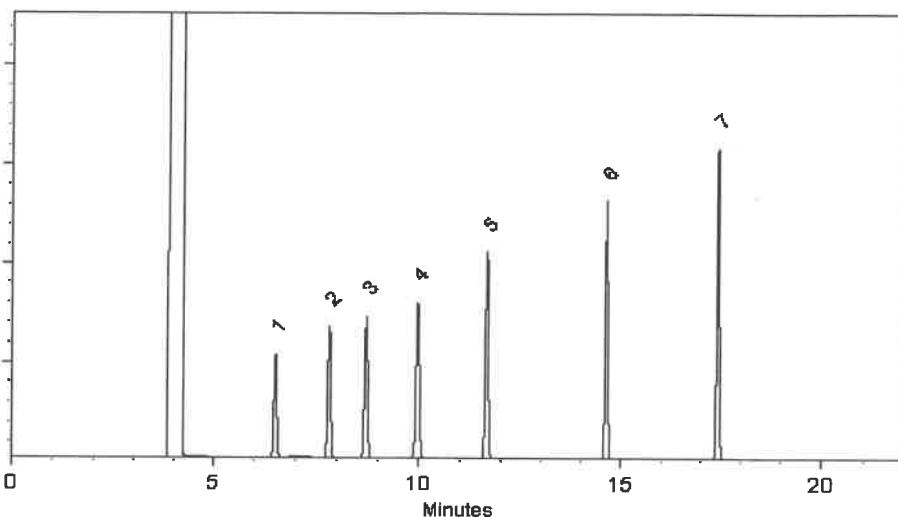
FID

Split Vent:

40 ml/min

Inj. Vol

1 μ l



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Samuel Moodier
Sam Moodier - Operations Tech I

Date Mixed: 28-Mar-2024 Balance Serial #: B707717271

Dillan Murphy
Dillan Murphy - Operations Technician |

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489

Lot No.: A0209618

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL

Pkg Amt: > 1 mL

Expiration Date : September 30, 2025

Storage: -20°C or colder

Handling: This product is photosensitive.

Ship: On Ice

C E R T I F I E D V A L U E S

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) |
|---------------|-------------------|----------|-------------|--------|--------------------------------|---|
| 1 | Methyl acetate | 79-20-9 | SHBP3100 | 99% | 2,019.3 µg/mL | +/- 69.7974 |
| 2 | Vinyl acetate | 108-05-4 | RP231030CTH | 98% | 2,016.8 µg/mL | +/- 69.7112 |
| 3 | Ethyl acetate | 141-78-6 | SHBQ9682 | 99% | 2,010.7 µg/mL | +/- 69.4979 |
| 4 | Isopropyl acetate | 108-21-4 | BCCG7069 | 99% | 2,016.0 µg/mL | +/- 69.6822 |
| 5 | Propyl acetate | 109-60-4 | P8XLN | 99% | 2,008.0 µg/mL | +/- 69.4057 |
| 6 | Butyl acetate | 123-86-4 | SHBP6314 | 99% | 2,007.3 µg/mL | +/- 69.3826 |
| 7 | Amyl acetate | 628-63-7 | 41325/1 | 97% | 2,004.7 µg/mL | +/- 69.2905 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0 μ m
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

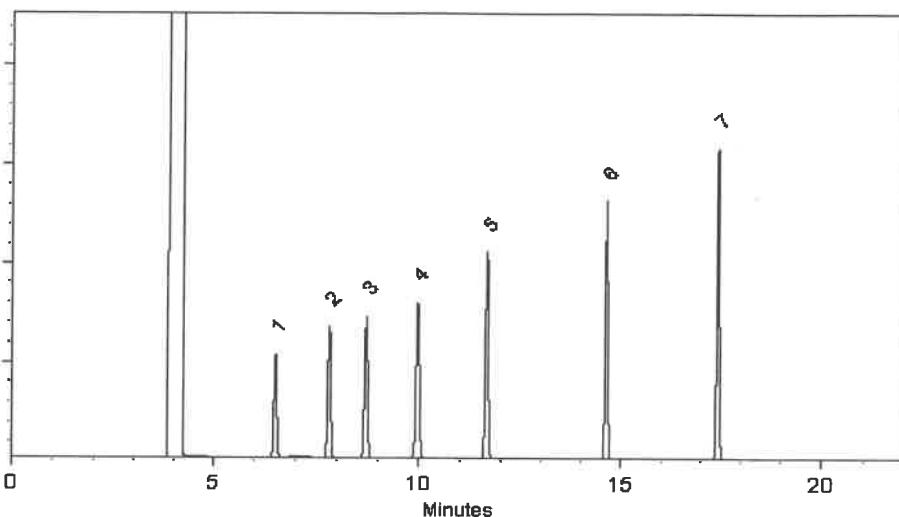
FID

Split Vent:

40 ml/min

Inj. Vol

1 μ l



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Samuel Moodier
Sam Moodier - Operations Tech I

Date Mixed: 28-Mar-2024 Balance Serial #: B707717271

Dillan Murphy
Dillan Murphy - Operations Technician |

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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Certificate of Analysis *gravimetric*



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.: 555581

Lot No.: A0210184

Description : Custom 8260 Internal Standard Mix

Custom 8260 Internal Standard Mix 25,000 μ g/mL, P&T Methanol,
1mL/ampul

Container Size : 2 mL

Pkg Amt: > 1 mL

Expiration Date : April 30, 2027

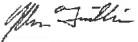
Storage: 10°C or colder

Ship: Ambient

C E R T I F I E D V A L U E S

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|-------------|------------------------|-----------|----------|--------|--------------------------------|---|
| 1 | 1,4-Dichlorobenzene-d4 | 3855-82-1 | PR-30447 | 99% | 25,212.0 μ g/mL | +/- 1,427.8857 |
| 2 | 1,4-Difluorobenzene | 540-36-3 | MKCS8657 | 99% | 25,220.0 μ g/mL | +/- 1,428.3388 |
| 3 | Chlorobenzene-d5 | 3114-55-4 | PR-31132 | 99% | 25,116.0 μ g/mL | +/- 1,422.4487 |
| 4 | Pentafluorobenzene | 363-72-4 | MKCR9383 | 99% | 25,180.0 μ g/mL | +/- 1,426.0734 |

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%


John Friedline - Operations Technician I

Date Mixed: 11-Apr-2024 Balance: 1127510105

APPROVED
By Analyst Name: 1.80 mg/L for 10.000

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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Testing Laboratory
Certificate #3222.02

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006

Lot No.: A0210618

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000 μ g/mL, P&T Methanol/Water(90:10),
1mL/ampul

Container Size : 2 mL

Pkg Amt: > 1 mL

Expiration Date : July 31, 2027

Storage: 0°C or colder

Ship: Ambient

C E R T I F I E D V A L U E S

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty* (95% C.L.; K=2) |
|---------------|-----------------------------|----------|----------|--------|--------------------------------|--|
| 1 | Acetone | 67-64-1 | SHBQ8504 | 99% | 5,014.8 μ g/mL | +/- 173.2883 |
| 2 | 2-Butanone (MEK) | 78-93-3 | SHBQ4704 | 99% | 5,012.4 μ g/mL | +/- 173.2054 |
| 3 | 4-Methyl-2-pentanone (MIBK) | 108-10-1 | SHBP9200 | 99% | 5,011.6 μ g/mL | +/- 173.1777 |
| 4 | 2-Hexanone | 591-78-6 | MKCQ6663 | 99% | 5,013.0 μ g/mL | +/- 173.2261 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)

CAS # 67-56-1/7732-18-5

Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0 μ m
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

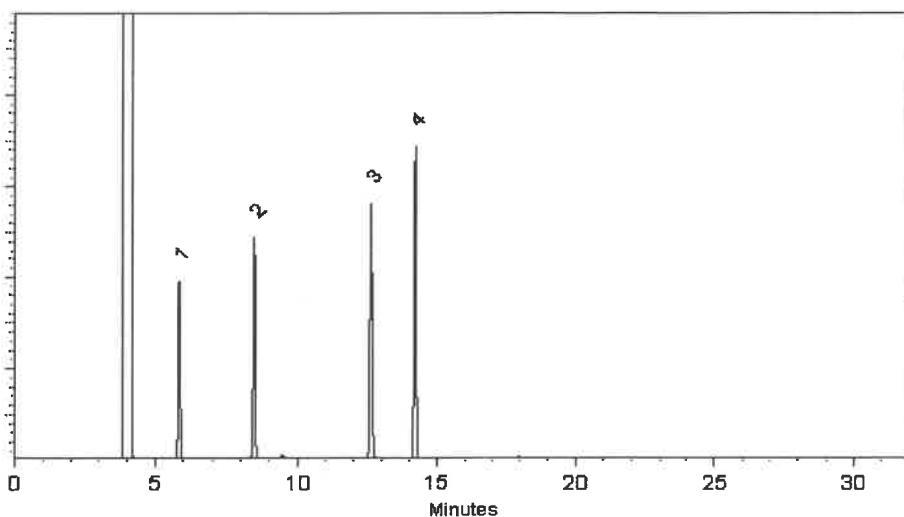
FID

Split Vent:

40 ml/min

Inj. Vol

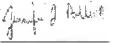
1 μ l



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

 Dakota Parson - Operations Technician I.

Date Mixed: 22-Apr-2024 Balance Serial #: B707717271

 Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{\text{combined uncertainty}} = k \sqrt{u_{\text{gravimetric}}^2 + u_{\text{homogeneity}}^2 + u_{\text{storage stability}}^2 + u_{\text{shipping stability}}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Dec 12 (17) 24

30 v14

Certificate of Analysis

chromatographic plus

V14697-to-14726



ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01



ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006

Lot No.: A0210618

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000 μ g/mL, P&T Methanol/Water(90:10),
1mL/ampul

Container Size : 2 mL

Pkg Amt: > 1 mL

Expiration Date : July 31, 2027

Storage: 0°C or colder

Ship: Ambient

C E R T I F I E D V A L U E S

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty* (95% C.L.; K=2) |
|---------------|-----------------------------|----------|----------|--------|--------------------------------|--|
| 1 | Acetone | 67-64-1 | SHBQ8504 | 99% | 5,014.8 μ g/mL | +/- 173.2883 |
| 2 | 2-Butanone (MEK) | 78-93-3 | SHBQ4704 | 99% | 5,012.4 μ g/mL | +/- 173.2054 |
| 3 | 4-Methyl-2-pentanone (MIBK) | 108-10-1 | SHBP9200 | 99% | 5,011.6 μ g/mL | +/- 173.1777 |
| 4 | 2-Hexanone | 591-78-6 | MKCQ6663 | 99% | 5,013.0 μ g/mL | +/- 173.2261 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)

CAS # 67-56-1/7732-18-5

Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0 μ m
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

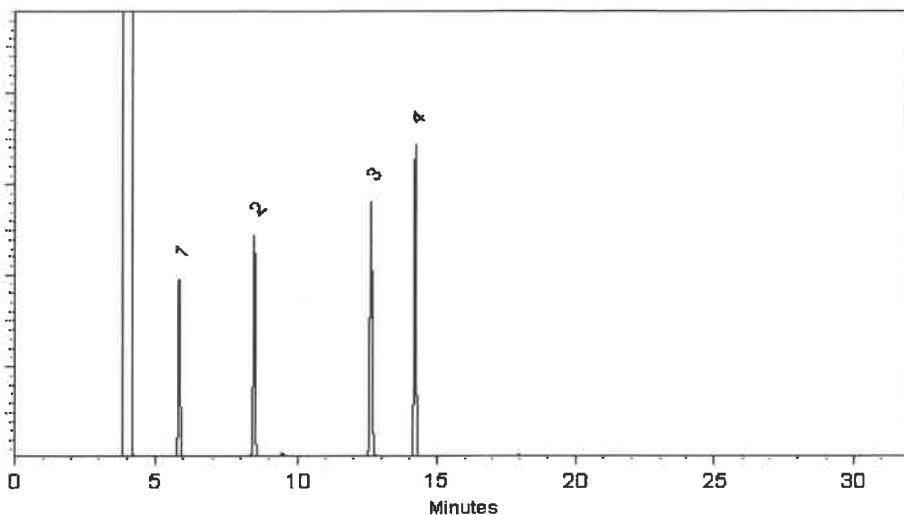
FID

Split Vent:

40 ml/min

Inj. Vol

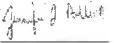
1 μ l



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Dakota Parson - Operations Technician I.

Date Mixed: 22-Apr-2024 Balance Serial #: B707717271


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{\text{combined uncertainty}} = k \sqrt{u_{\text{gravimetric}}^2 + u_{\text{homogeneity}}^2 + u_{\text{storage stability}}^2 + u_{\text{shipping stability}}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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30 v14

Certificate of Analysis

chromatographic plus

V14697-to-14726



ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01



ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006

Lot No.: A0210618

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000 μ g/mL, P&T Methanol/Water(90:10),
1mL/ampul

Container Size : 2 mL

Pkg Amt: > 1 mL

Expiration Date : July 31, 2027

Storage: 0°C or colder

Ship: Ambient

C E R T I F I E D V A L U E S

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty* (95% C.L.; K=2) |
|---------------|-----------------------------|----------|----------|--------|--------------------------------|--|
| 1 | Acetone | 67-64-1 | SHBQ8504 | 99% | 5,014.8 μ g/mL | +/- 173.2883 |
| 2 | 2-Butanone (MEK) | 78-93-3 | SHBQ4704 | 99% | 5,012.4 μ g/mL | +/- 173.2054 |
| 3 | 4-Methyl-2-pentanone (MIBK) | 108-10-1 | SHBP9200 | 99% | 5,011.6 μ g/mL | +/- 173.1777 |
| 4 | 2-Hexanone | 591-78-6 | MKCQ6663 | 99% | 5,013.0 μ g/mL | +/- 173.2261 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)

CAS # 67-56-1/7732-18-5

Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0 μ m
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

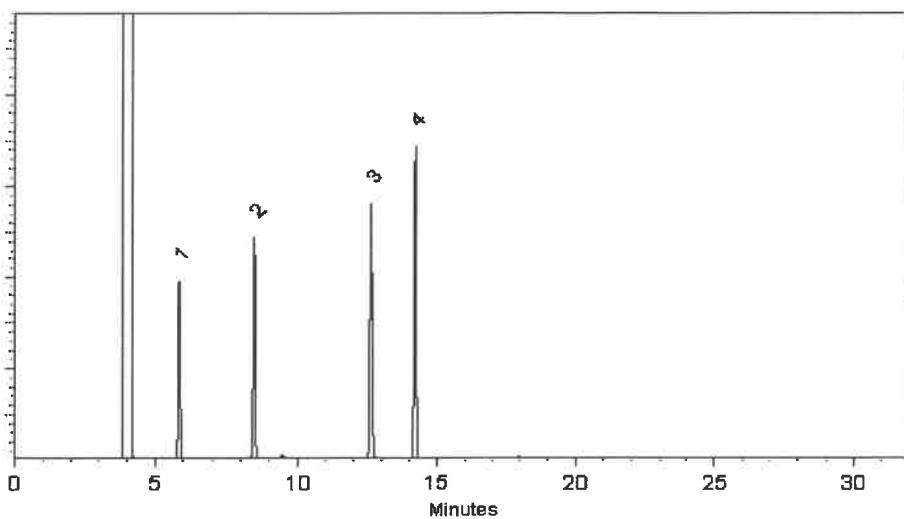
FID

Split Vent:

40 ml/min

Inj. Vol

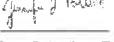
1 μ l



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I.

Date Mixed: 22-Apr-2024 Balance Serial #: B707717271


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{\text{combined uncertainty}} = k \sqrt{u_{\text{gravimetric}}^2 + u_{\text{homogeneity}}^2 + u_{\text{storage stability}}^2 + u_{\text{shipping stability}}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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Rec 12/17/24
CERTIFIED REFERENCE MATERIAL

30 mL



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Reference Material Producer
Certificate #3222-01



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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222-02

Certificate of Analysis
chromatographic plus

*V14727 +
V14756*

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042

Lot No.: A0216826

Description : 502.2 Calibration Mix #1

502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL

Pkg Amt: > 1 mL

Expiration Date : May 31, 2031

Storage: 0°C or colder

Ship: Ambient

C E R T I F I E D V A L U E S

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|----------------------------------|---------|-----------------|--------|--------------------------------|---|
| 1 | Dichlorodifluoromethane (CFC-12) | 75-71-8 | 00022922 | 99% | 2,000.9 µg/mL | +/- 112.4144 |
| 2 | Chloromethane (methyl chloride) | 74-87-3 | 00022694 | 99% | 2,000.7 µg/mL | +/- 112.3998 |
| 3 | Vinyl chloride | 75-01-4 | 00015559 | 99% | 2,000.3 µg/mL | +/- 112.3779 |
| 4 | Bromomethane (methyl bromide) | 74-83-9 | 00017022 | 99% | 2,001.8 µg/mL | +/- 112.4650 |
| 5 | Chloroethane (ethyl chloride) | 75-00-3 | 107-401039114-1 | 99% | 2,000.1 µg/mL | +/- 112.3700 |
| 6 | Trichlorofluoromethane (CFC-11) | 75-69-4 | MKCJ8658 | 99% | 2,000.7 µg/mL | +/- 112.3992 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol

CAS # 67-56-1

Purity 99%

Quality Confirmation Test

Column:

60m x 0.25mm x 1.4 μ m
Rtx-502.2 (cat.#10916)

Carrier Gas:

helium-constant flow 2.0 mL/min.

Temp. Program:

40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

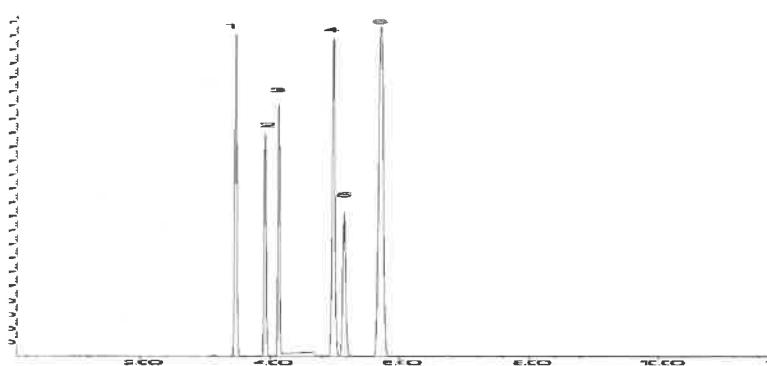
MSD

Split Vent:

Split ratio 10:1

Inj. Vol

1 μ l



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar Mix Technician

Date Mixed: 23-Sep-2024 Balance Serial #: B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{\text{combined uncertainty}} = k \sqrt{u_{\text{gravimetric}}^2 + u_{\text{homogeneity}}^2 + u_{\text{storage stability}}^2 + u_{\text{shipping stability}}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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30 μL

Certificate of Analysis
chromatographic plus

*V14727 +
V14756*



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Reference Material Producer
Certificate #3222-01



ILAC-MRA
ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222-02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.: 30042

Lot No.: A0216826

Description : 502.2 Calibration Mix #1

502.2 Calibration Mix #1 2,000μg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL

Pkg Amt: > 1 mL

Expiration Date : May 31, 2031

Storage: 0°C or colder

Ship: Ambient

C E R T I F I E D V A L U E S

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|----------------------------------|---------|-----------------|--------|--------------------------------|---|
| 1 | Dichlorodifluoromethane (CFC-12) | 75-71-8 | 00022922 | 99% | 2,000.9 μg/mL | +/- 112.4144 |
| 2 | Chloromethane (methyl chloride) | 74-87-3 | 00022694 | 99% | 2,000.7 μg/mL | +/- 112.3998 |
| 3 | Vinyl chloride | 75-01-4 | 00015559 | 99% | 2,000.3 μg/mL | +/- 112.3779 |
| 4 | Bromomethane (methyl bromide) | 74-83-9 | 00017022 | 99% | 2,001.8 μg/mL | +/- 112.4650 |
| 5 | Chloroethane (ethyl chloride) | 75-00-3 | 107-401039114-1 | 99% | 2,000.1 μg/mL | +/- 112.3700 |
| 6 | Trichlorofluoromethane (CFC-11) | 75-69-4 | MKCJ8658 | 99% | 2,000.7 μg/mL | +/- 112.3992 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol

CAS # 67-56-1

Purity 99%

Quality Confirmation Test

Column:

60m x 0.25mm x 1.4 μ m
Rtx-502.2 (cat.#10916)

Carrier Gas:

helium-constant flow 2.0 mL/min.

Temp. Program:

40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

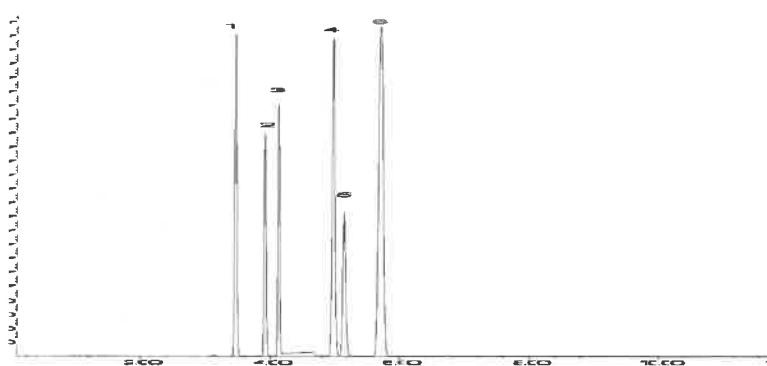
MSD

Split Vent:

Split ratio 10:1

Inj. Vol

1 μ l



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar Mix Technician

Date Mixed: 23-Sep-2024 Balance Serial #: B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{\text{combined uncertainty}} = k \sqrt{u_{\text{gravimetric}}^2 + u_{\text{homogeneity}}^2 + u_{\text{storage stability}}^2 + u_{\text{shipping stability}}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

✓ 14842 to 14846



ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01



ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.: 30470

Lot No.: A0217535

Description : tert-Butanol Standard

tert-Butanol Std 50,000 μ g/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL

Pkg Amt: > 1 mL

Expiration Date : October 31, 2027

Storage: 0°C or colder

Ship: Ambient

C E R T I F I E D V A L U E S

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|--------------------|---------|------------|--------|--------------------------------|---|
| 1 | tert-Butanol (TBA) | 75-65-0 | SHBQ8002-1 | 99% | 50,007.5 μ g/mL | +/- 717.6137 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0 μ m
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

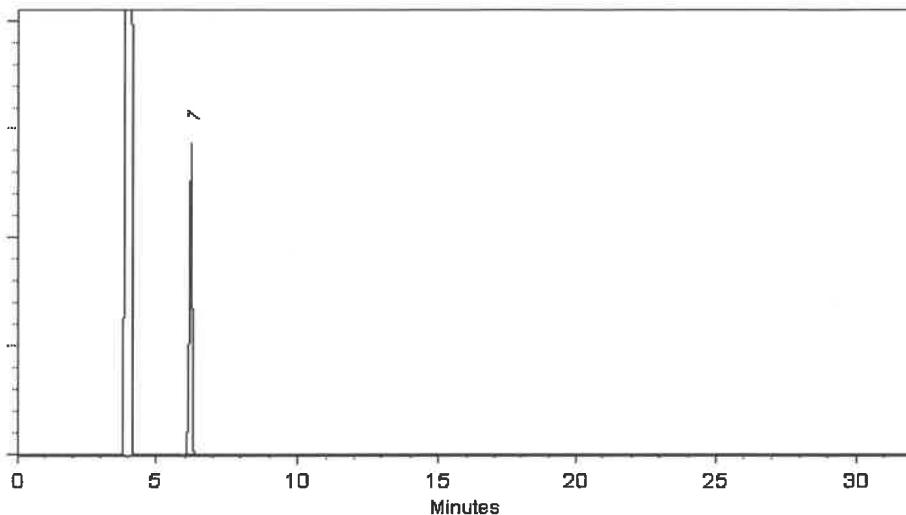
FID

Split Vent:

40 ml/min

Inj. Vol

1 μ l



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Aaron Enyart
Aaron Enyart - Operations Tech I

Date Mixed: 07-Oct-2024 Balance Serial #: B251644995

Brittany Federinko
Brittany Federinko - Operations Tech I

Date Passed: 09-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

2014 Dec 01 (08/21)



ILAC
ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01



ILAC
ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

chromatographic

J14803 - J14822

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.: 555408-SL

Lot No.: A0220471

Description : Custom Vinyl Acetate Standard

Custom Vinyl Acetate Standard 8,000 μ g/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL

Pkg Amt: > 1 mL

Expiration Date : June 30, 2026

Storage: -20°C or colder

Handling: This product is photosensitive.

Ship: On Ice

C E R T I F I E D V A L U E S

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|---------------|----------|-------------|--------|--------------------------------|---|
| 1 | Vinyl acetate | 108-05-4 | RD240423RSR | 99% | 8,066.0 μ g/mL | +/- 278.7979 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol

CAS # 67-56-1

Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0 μ m
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

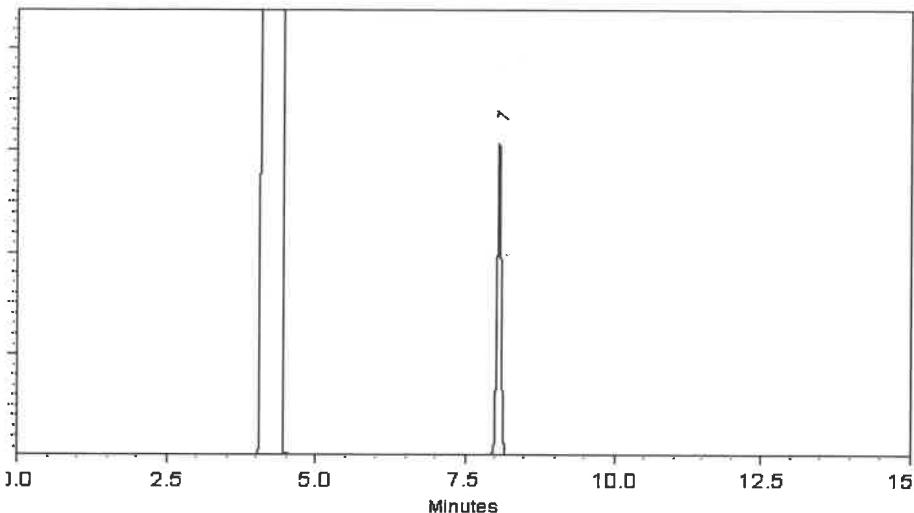
FID

Split Vent:

40 ml/min

Inj. Vol

1 μ l



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Ethan Winiarski
Ethan Winiarski - Operations Tech I

Date Mixed: 24-Dec-2024 Balance Serial #: 1127510105

Dillan Murphy
Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED
By Jennifer Polson at 7:17 am, Jan 05, 2025

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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2014 Dec 01 (08/21)



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ISO 17034 Accredited
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Certificate #3222.01



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Certificate of Analysis

chromatographic

J14803 - J14822

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@ 8°C/min. (hold 5 min.)

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Det. Temp:

250°C

Det. Type:

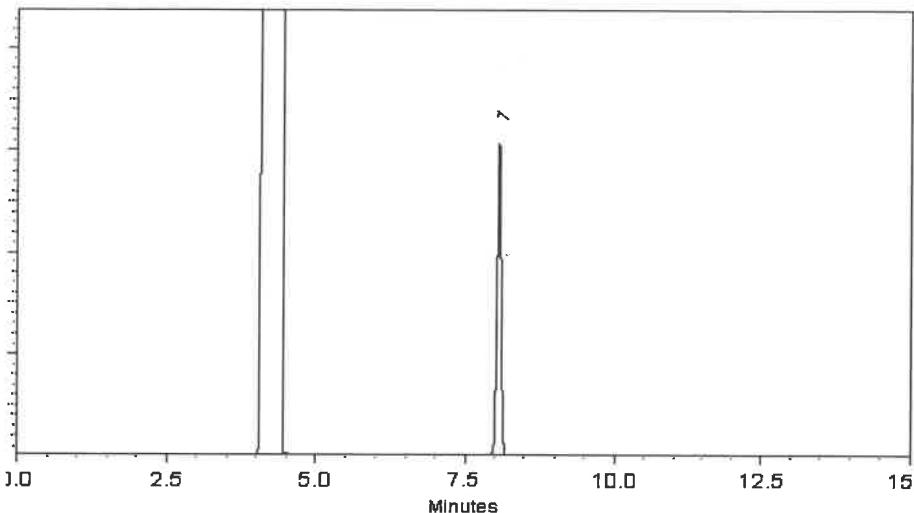
FID

Split Vent:

40 ml/min

Inj. Vol

1 μ l



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Ethan Winiarski - Operations Tech I

Date Mixed: 24-Dec-2024

Balance Serial #: 1127510105

Dillon Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED
By Jennifer Polson at 7:17 am, Jan 05, 2025

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Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

| Test | Specification | Result |
|---|------------------------|----------|
| Assay (CH_3OH) (by GC, corrected for water) | $\geq 99.9 \%$ | 100.0 % |
| Residue after Evaporation | $\leq 1.0 \text{ ppm}$ | 0.2 ppm |
| Titrable Acid ($\mu\text{eq/g}$) | ≤ 0.3 | 0.2 |
| Titrable Base ($\mu\text{eq/g}$) | ≤ 0.10 | 0.03 |
| Water (by KF, coulometric) | $\leq 0.08 \%$ | < 0.01 % |
| Volatile Organic Trace Analysis – Below EPA 8260B CRQL | Conforms | Conforms |

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



V14883
V14884

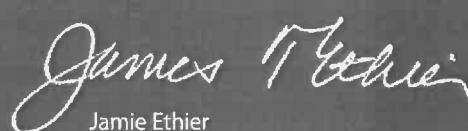
Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

| Test | Specification | Result |
|---|---------------|----------|
| Assay (CH ₃ OH) (by GC, corrected for water) | ≥ 99.9 % | 100.0 % |
| Residue after Evaporation | ≤ 1.0 ppm | 0.2 ppm |
| Titrable Acid (μeq/g) | ≤ 0.3 | 0.2 |
| Titrable Base (μeq/g) | ≤ 0.10 | 0.03 |
| Water (by KF, coulometric) | ≤ 0.08 % | < 0.01 % |
| Volatile Organic Trace Analysis – Below EPA 8260B CRQL | Conforms | Conforms |

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Page 1 of 1



SHIPPING DOCUMENTS



284 Sheffield Street, Mountainside, NJ 07092
 (908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO.

QUOTE NO.

COC Number

Q1812

2046603

CLIENT INFORMATION

CLIENT PROJECT INFORMATION

CLIENT BILLING INFORMATION

REPORT TO BE SENT TO:

COMPANY: Jacobs

ADDRESS: 412 Mt Kisco Ave Suite #100

CITY: Morristown STATE: NJ ZIP: 07960

ATTENTION: John Yufante John.Yufante@Jacobs.com

PHONE: FAX:

PROJECT NAME: STC PTC

PROJECT NO: 08868221 LOCATION: Princeton Junction

PROJECT MANAGER: Mary Murphy

e-mail: Mary.Murphy@Jacobs.com

PHONE: FAX:

BILL TO: Mary Murphy

PO#:

ADDRESS:

CITY: STATE: ZIP:

ATTENTION: PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

DATA DELIVERABLE INFORMATION

FAX (RUSH) Rush TAT (48hr) DAYS*

HARDCOPY (DATA PACKAGE): DAYS*

EDD: DAYS*

*TO BE APPROVED BY CHEMTECH

STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

 Level 1 (Results Only) Level 4 (QC + Full Raw Data) Level 2 (Results + QC) NJ Reduced US EPA CLP Level 3 (Results + QC) NYS ASP A NYS ASP B+ Raw Data Other EDD FORMAT1. TCL Volts (S200)
2. TCL Sucks (S210E)
3. TAL Metals (6208-7100)
4. TRH-GTO (S053A)
5. TRH-DRO/DTO (S053U)
6. 211111 (TA)
7.
8.
9.

PRESERVATIVES

COMMENTS

← Specify Preservatives

A-HCl D-NaOH

B-HNO3 E-ICE

C-H2SO4 F-OTHER

| ALLIANCE SAMPLE ID | PROJECT SAMPLE IDENTIFICATION | SAMPLE MATRIX | SAMPLE TYPE | | SAMPLE COLLECTION | | # OF BOTTLES | PRESERVATIVES | | | | | | | | | COMMENTS | | | | | |
|--------------------|-------------------------------|---------------|-------------|------|-------------------|------|--------------|---------------|---|-----|-----|---|---|---|---|---|----------|---|---|---|---|---|
| | | | COMP | GRAB | DATE | TIME | | A/E | E | B/E | A/E | E | E | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 1. | TB01-041525 | D1 | X | | 4/15/25 | 1100 | 2 | ✓ | | | | | | | | | | | | | | |
| 2. | RINSE-EB-TANK-041525 | W | X | | 4/15/25 | 1120 | 8 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | |
| 3. | RINSE-EB-PUMP-041525 | W | X | | 4/15/25 | 1135 | 8 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | |
| 4. | | | | | | | | | | | | | | | | | | | | | | |
| 5. | | | | | | | | | | | | | | | | | | | | | | |
| 6. | | | | | | | | | | | | | | | | | | | | | | |
| 7. | | | | | | | | | | | | | | | | | | | | | | |
| 8. | | | | | | | | | | | | | | | | | | | | | | |
| 9. | | | | | | | | | | | | | | | | | | | | | | |
| 10. | | | | | | | | | | | | | | | | | | | | | | |

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

| | | | | |
|--------------------------------|----------------------------|-------------------------------|-------|--|
| RELINQUISHED BY SAMPLER: 1. | DATE/TIME: 1610 4/15/25 | RECEIVED BY: 1. yg 4/15/25 | 16:10 | Conditions of bottles or coolers at receipt: <input type="checkbox"/> COMPLIANT <input type="checkbox"/> NON COMPLIANT <input type="checkbox"/> COOLER TEMP 5.5 °C |
| Comments: | | | | |
| RELINQUISHED BY SAMPLER: 2. | DATE/TIME: | RECEIVED BY: 2. | | |
| RELINQUISHED BY SAMPLER: 3. | DATE/TIME: | RECEIVED BY: 3. | | Shipment Complete <input type="checkbox"/> YES <input type="checkbox"/> NO |

Laboratory Certification

| Certified By | License No. |
|----------------------|------------------|
| CAS EPA CLP Contract | 68HERH20D0011 |
| Connecticut | PH-0830 |
| DOD ELAP (ANAB) | L2219 |
| Maine | 2024021 |
| Maryland | 296 |
| New Hampshire | 255424 Rev 1 |
| New Jersey | 20012 |
| New York | 11376 |
| Pennsylvania | 68-00548 |
| Soil Permit | 525-24-234-08441 |
| Texas | T104704488 |



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

LOGIN REPORT/SAMPLE TRANSFER

| | | | |
|--|--------|---|-------------------------------------|
| Order ID : Q1812 | JAC005 | Order Date : 4/15/2025 4:26:00 PM | Project Mgr : Yazmeen |
| Client Name : JACOBS Engineering Grou | | Project Name : Former Schlumberger STC | Report Type : Level 4 |
| Client Contact : John Ynfante | | Receive DateTime : 4/15/2025 4:10:00 PM | EDD Type : CH2MHILL |
| Invoice Name : JACOBS Engineering Grou | | Purchase Order : | Hard Copy Date : |
| Invoice Contact : John Ynfante | | | Date Signoff : 4/16/2025 9:55:15 AM |

| LAB ID | CLIENT ID | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST | TEST GROUP | METHOD | FAX DATE | DU ^E DATES |
|----------|----------------------|--------|-------------|-------------|---------------|------------|----------|------------|-----------------------|
| Q1812-01 | TB01-041525 | Water | 04/15/2025 | 11:00 | VOC-TCLVOA-10 | | 8260-Low | 1 Bus. Day | 04/17/2025 |
| Q1812-02 | RINSE-EB-TANK-041525 | Water | 04/15/2025 | 11:20 | VOC-TCLVOA-10 | | 8260-Low | 1 Bus. Day | 04/17/2025 |
| Q1812-03 | RINSE-EB-PUMP-041525 | Water | 04/15/2025 | 11:35 | VOC-TCLVOA-10 | | 8260-Low | 1 Bus. Day | 04/17/2025 |

Relinquished By : CH 14 15 25 16:30
Date / Time :

Received By : CH 14 15 25 16:30
Date / Time :

Storage Area : VOA Refridgerator Room