

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL011425\  
 Data File : VL041906.D  
 Acq On : 14 Jan 2025 23:22  
 Operator : SY/MD  
 Sample : Q1073-02 4X  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SV2

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025  
 Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 03:29:43 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL011425AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 2

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 2.793  | 49    | 136441   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene     | 3.965  | 114   | 396539   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5        | 8.888  | 117   | 360198   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene | 10.383 | 95    | 282769   | 9.967    | ppbv   | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =      | 99.700%  |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane  | 1.502  | 85    | 2530     | 0.136    | ppbv # | 81       |
| 10) Heptane                 | 4.994  | 43    | 9687m    | 0.452    | ppbv   |          |
| 15) Acetone                 | 1.839  | 43    | 14391    | 0.878    | ppbv # | 58       |
| 20) Methylene Chloride      | 2.065  | 84    | 1487     | 0.230    | ppbv # | 71       |
| 26) Hexane                  | 2.832  | 57    | 44321    | 2.536    | ppbv # | 35       |
| 27) Carbon Disulfide        | 2.156  | 76    | 2367     | 0.137    | ppbv # | 1        |
| 29) Chloroform              | 2.855  | 83    | 3417     | 0.124    | ppbv   | 96       |
| 34) 2-Butanone              | 2.567  | 43    | 34092    | 1.352    | ppbv   | 98       |
| 52) Tetrachloroethene       | 8.237  | 164   | 16006    | 1.269    | ppbv   | 96       |
| 53) Toluene                 | 6.943  | 91    | 12736    | 0.321    | ppbv   | 100      |
| -----                       |        |       |          |          |        |          |

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

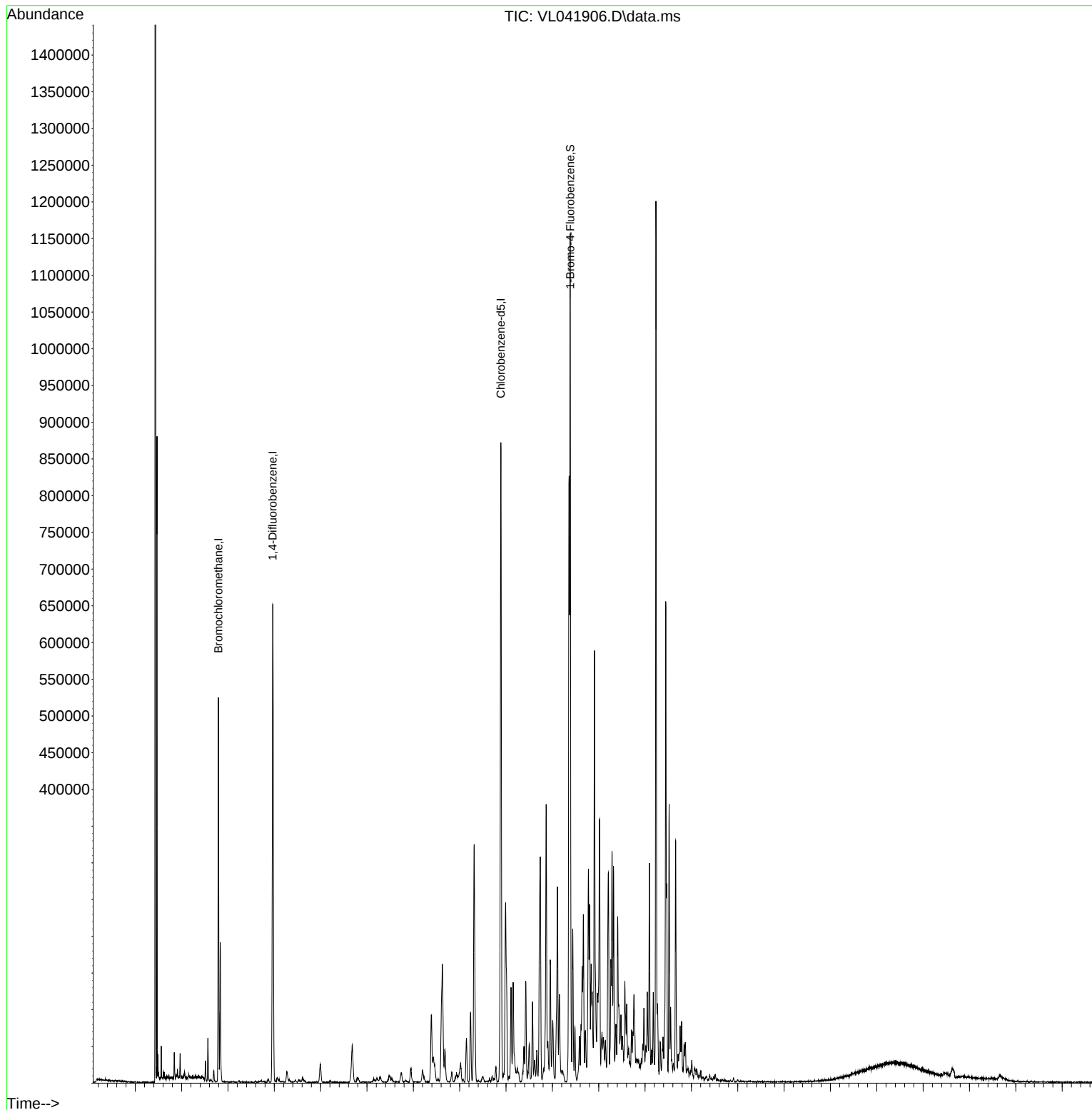
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL011425\  
Data File : VL041906.D  
Acq On : 14 Jan 2025 23:22  
Operator : SY/MD  
Sample : Q1073-02 4X  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

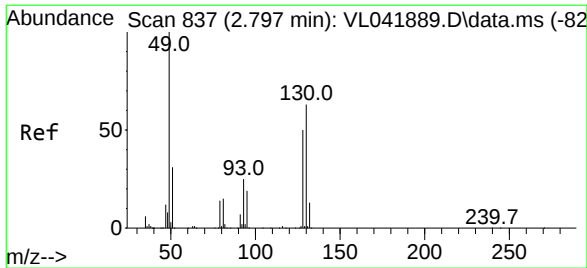
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV2

Quant Time: Jan 15 03:29:43 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL011425AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Tue Jan 14 23:15:42 2025  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025  
Supervised By : Mahesh Dadoda 01/15/2025





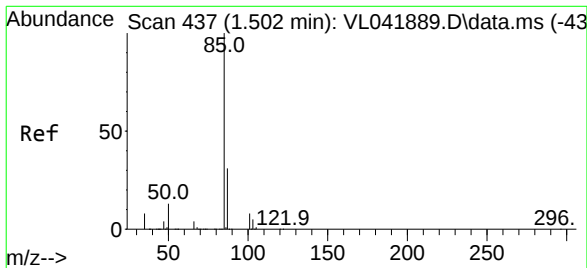
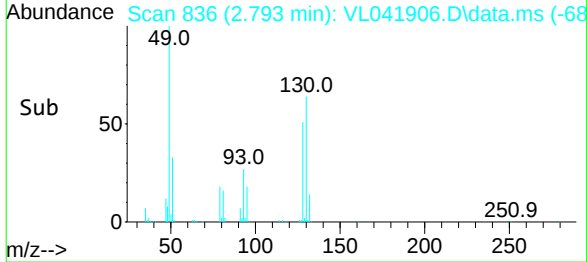
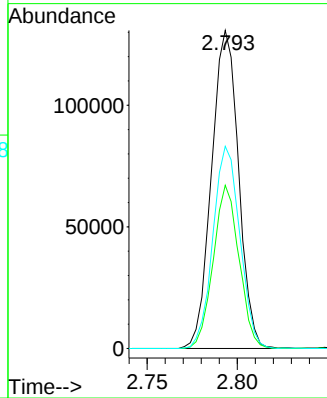
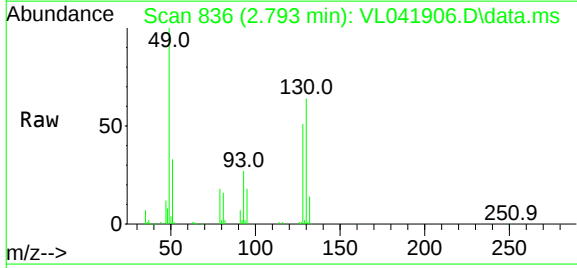
#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.793 min Scan# 837  
Delta R.T. -0.004 min  
Lab File: VL041906.D  
Acq: 14 Jan 2025 23:22

Instrument :  
MSVOA\_L  
ClientSampleId :  
SV2

Tgt Ion: 49 Resp: 136441  
Ion Ratio Lower Upper  
49 100  
128 48.9 24.3 73.0  
130 63.3 31.1 93.2

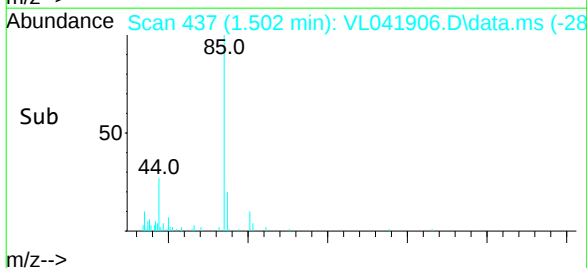
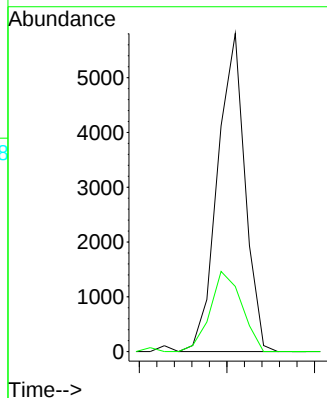
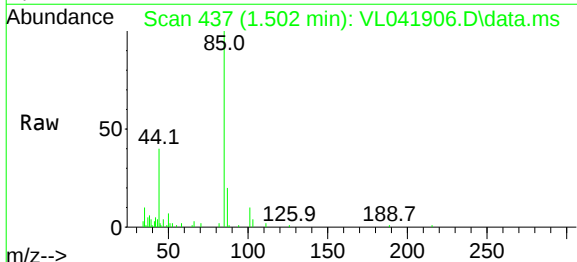
Manual Integrations  
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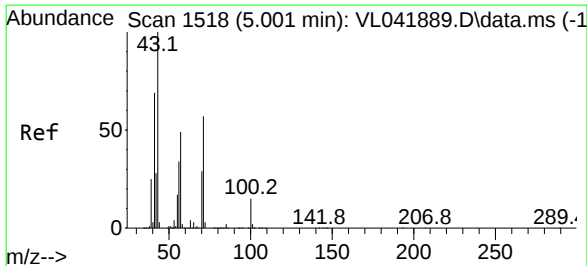
Reviewed By :Semsettin Yesilyurt 01/15/2025  
Supervised By :Mahesh Dadoda 01/15/2025



#2  
Dichlorodifluoromethane  
Concen: 0.136 ppbv  
RT: 1.502 min Scan# 437  
Delta R.T. -0.000 min  
Lab File: VL041906.D  
Acq: 14 Jan 2025 23:22

Tgt Ion: 85 Resp: 2530  
Ion Ratio Lower Upper  
85 100  
87 20.5 24.9 37.3





#10

Heptane

Concen: 0.452 ppbv m

RT: 4.994 min Scan# 1518

Delta R.T. -0.007 min

Lab File: VL041906.D

Acq: 14 Jan 2025 23:22

Instrument :

MSVOA\_L

ClientSampleId :

SV2

Tgt Ion: 43 Resp: 9687

Ion Ratio Lower Upper

43 100

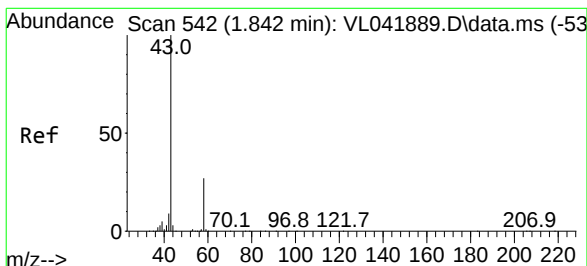
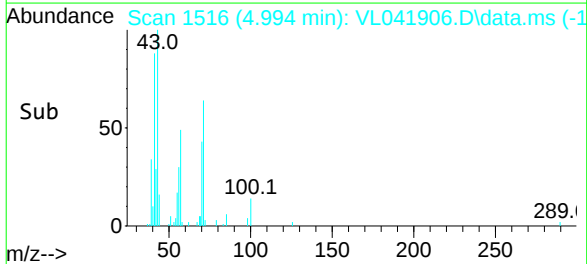
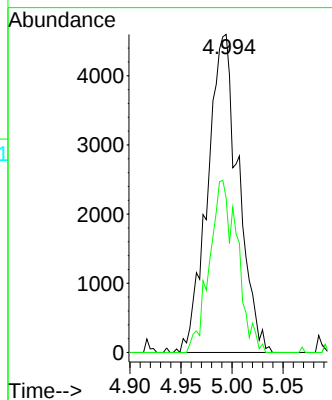
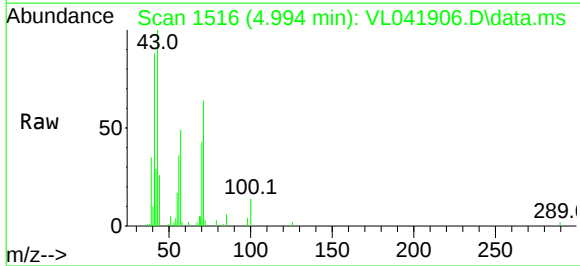
57 49.0 41.0 61.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#15

Acetone

Concen: 0.878 ppbv

RT: 1.839 min Scan# 541

Delta R.T. -0.003 min

Lab File: VL041906.D

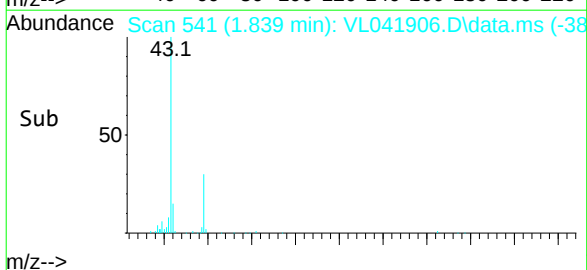
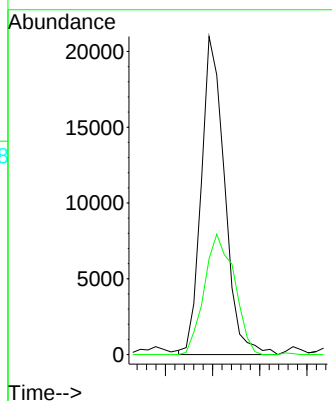
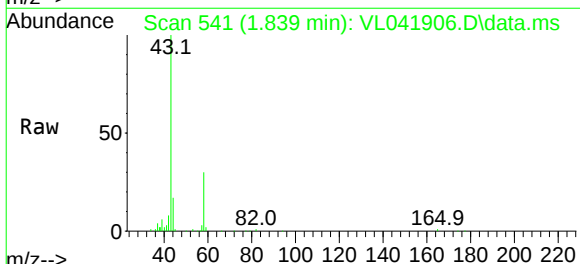
Acq: 14 Jan 2025 23:22

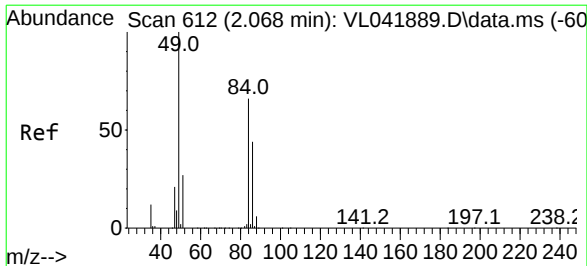
Tgt Ion: 43 Resp: 14391

Ion Ratio Lower Upper

43 100

58 49.2 21.9 32.9#





#20

Methylene Chloride

Concen: 0.230 ppbv

RT: 2.065 min Scan# 61

Delta R.T. -0.003 min

Lab File: VL041906.D

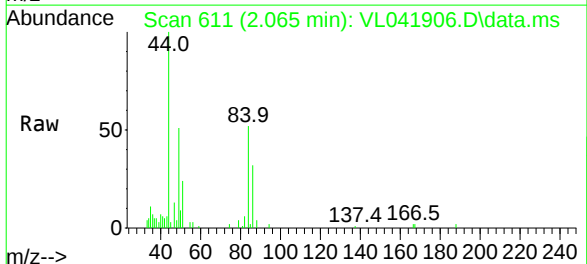
Acq: 14 Jan 2025 23:22

Instrument :

MSVOA\_L

ClientSampleId :

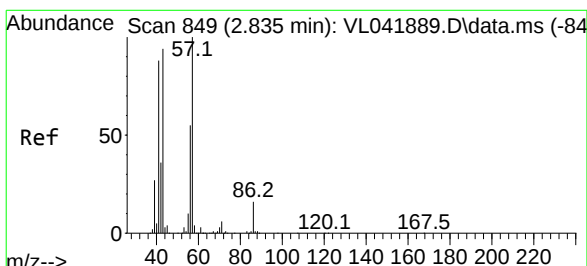
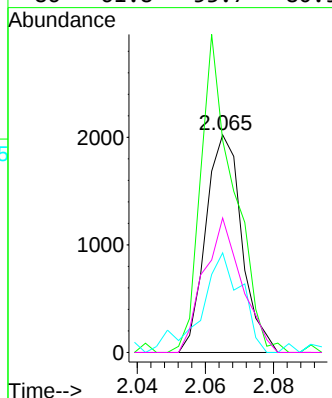
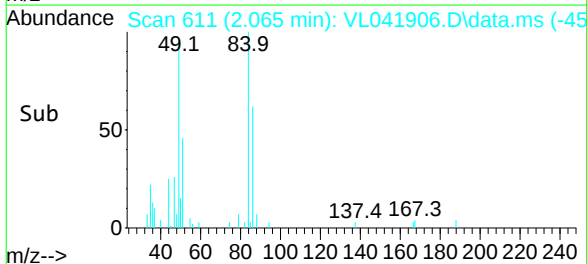
SV2



| Tgt Ion: | 84    | Resp: | 1487   |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 94.7  | 123.1 | 184.7# |
| 51       | 45.8  | 35.8  | 53.8   |
| 86       | 61.8  | 53.7  | 80.5   |

Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 01/15/2025  
Supervised By :Mahesh Dadoda 01/15/2025



#26

Hexane

Concen: 2.536 ppbv

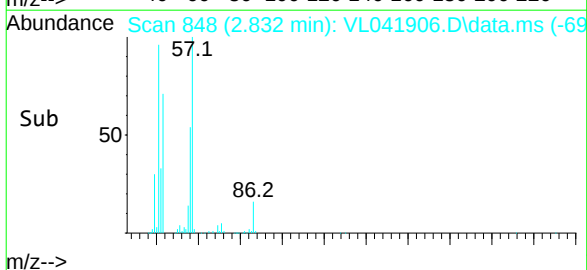
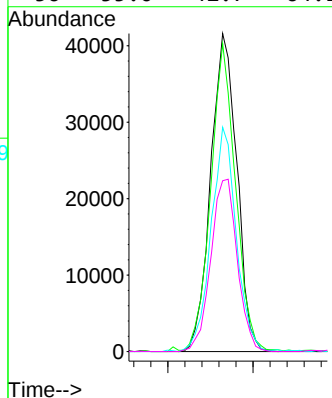
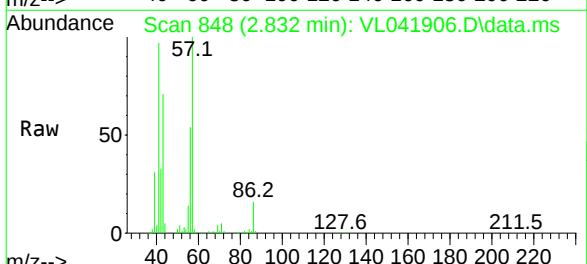
RT: 2.832 min Scan# 848

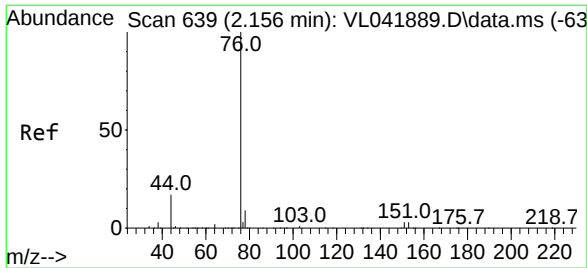
Delta R.T. -0.003 min

Lab File: VL041906.D

Acq: 14 Jan 2025 23:22

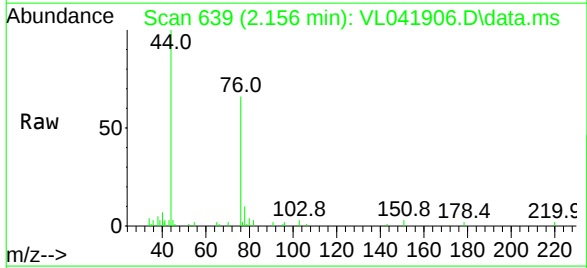
| Tgt Ion: | 57    | Resp: | 44321  |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 57       | 100   |       |        |
| 41       | 93.3  | 73.8  | 110.8  |
| 43       | 68.1  | 197.3 | 295.9# |
| 56       | 55.0  | 42.7  | 64.1   |





#27  
Carbon Disulfide  
Concen: 0.137 ppbv  
RT: 2.156 min Scan# 639  
Delta R.T. -0.000 min  
Lab File: VL041906.D  
Acq: 14 Jan 2025 23:22

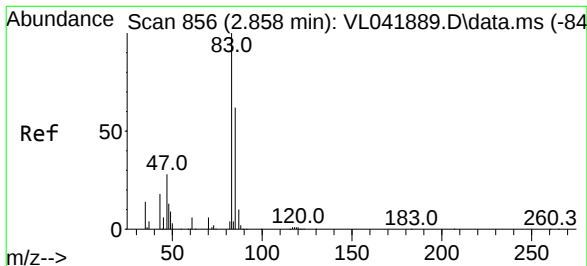
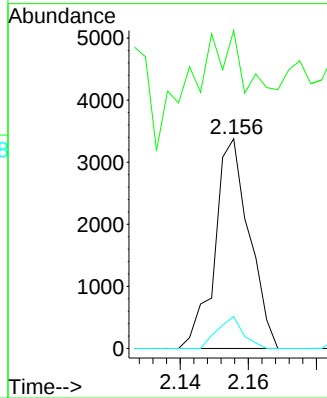
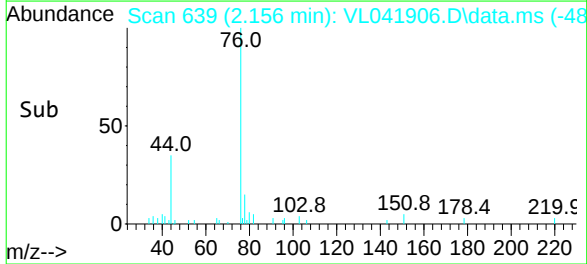
Instrument : MSVOA\_L  
ClientSampleId : SV2



Tgt Ion: 76 Resp: 2367  
Ion Ratio Lower Upper  
76 100  
44 336.6 15.4 23.0#  
78 11.4 9.3 13.9

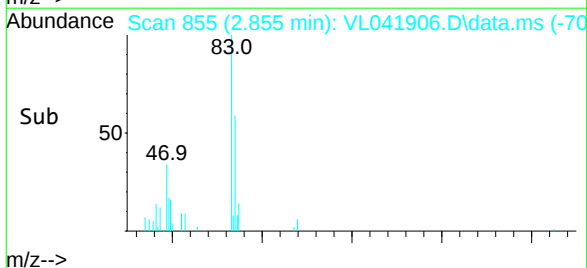
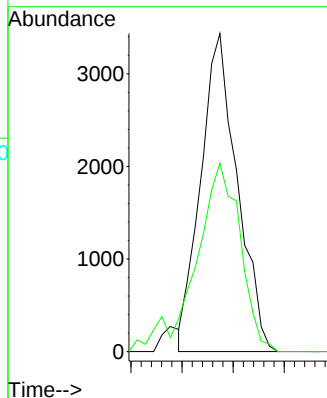
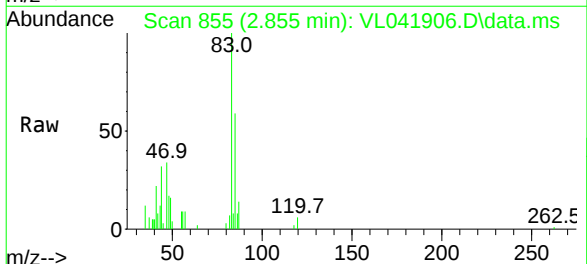
Manual Integrations  
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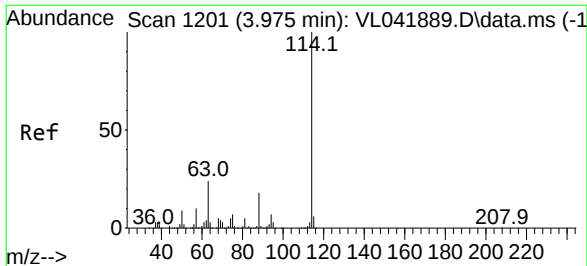
Reviewed By :Semsettin Yesilyurt 01/15/2025  
Supervised By :Mahesh Dadoda 01/15/2025



#29  
Chloroform  
Concen: 0.124 ppbv  
RT: 2.855 min Scan# 855  
Delta R.T. -0.003 min  
Lab File: VL041906.D  
Acq: 14 Jan 2025 23:22

Tgt Ion: 83 Resp: 3417  
Ion Ratio Lower Upper  
83 100  
85 59.2 50.1 75.1





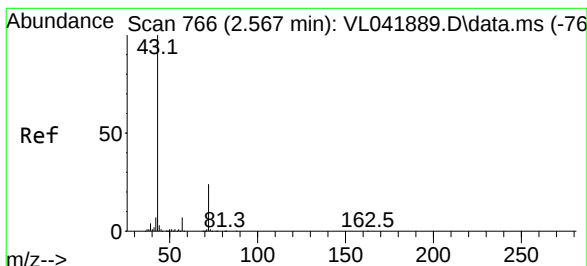
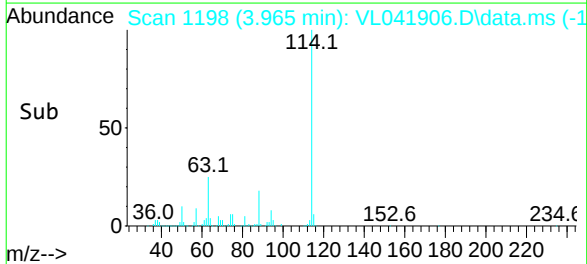
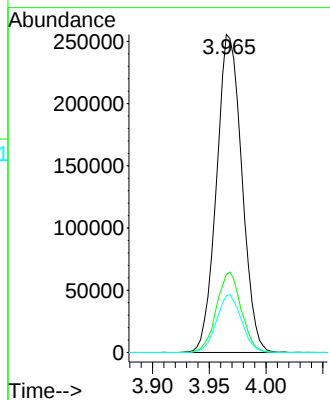
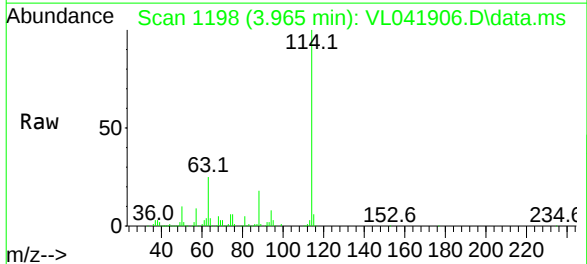
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1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.965 min Scan# 111  
Delta R.T. -0.010 min  
Lab File: VL041906.D  
Acq: 14 Jan 2025 23:22

Instrument :  
MSVOA\_L  
ClientSampleId :  
SV2

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 114   | Resp: | 396539 |
| Ion      | Ratio | Lower | Upper  |
| 114      | 100   |       |        |
| 63       | 24.7  | 19.8  | 29.6   |
| 88       | 17.9  | 14.4  | 21.6   |

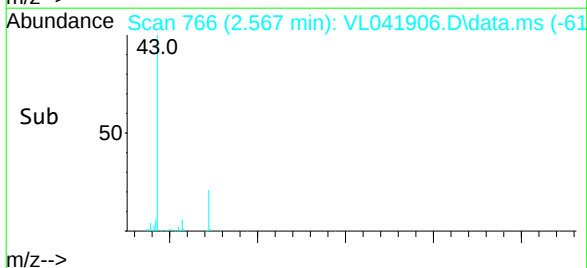
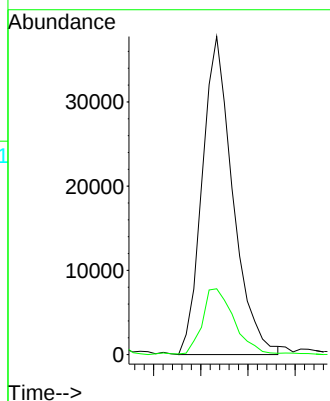
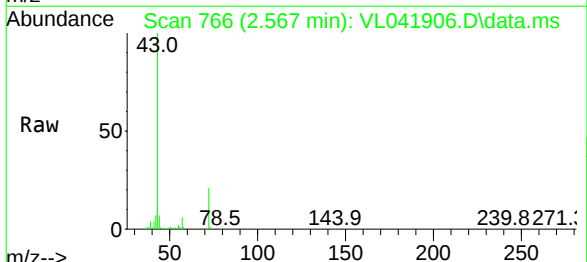
Manual Integrations  
APPROVED

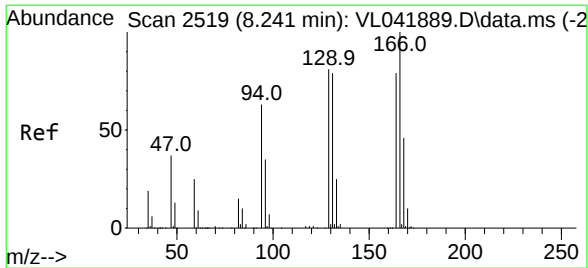
Reviewed By :Semsettin Yesilyurt 01/15/2025  
Supervised By :Mahesh Dadoda 01/15/2025



#34  
2-Butanone  
Concen: 1.352 ppbv  
RT: 2.567 min Scan# 766  
Delta R.T. -0.000 min  
Lab File: VL041906.D  
Acq: 14 Jan 2025 23:22

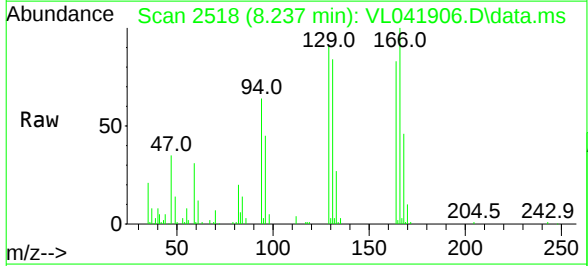
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|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 34092 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 22.1  | 18.6  | 28.0  |





#52  
**Tetrachloroethene**  
 Concen: 1.269 ppbv  
 RT: 8.237 min Scan# 2518  
 Delta R.T. -0.003 min  
 Lab File: VL041906.D  
 Acq: 14 Jan 2025 23:22

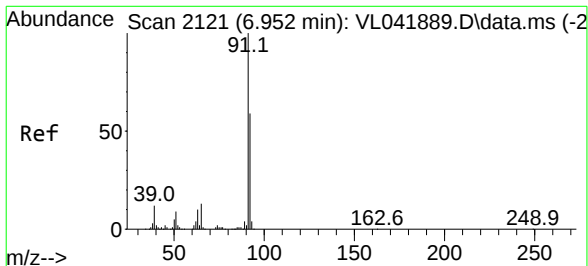
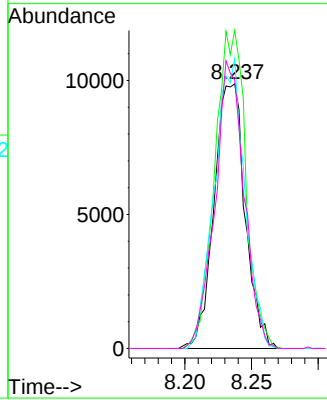
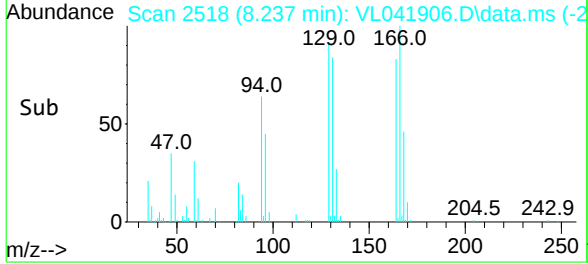
Instrument : MSVOA\_L  
 ClientSampleId : SV2



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 16006 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 166      | 120.2 | 100.8 | 151.2 |
| 129      | 109.4 | 82.0  | 123.0 |
| 131      | 101.5 | 80.2  | 120.2 |

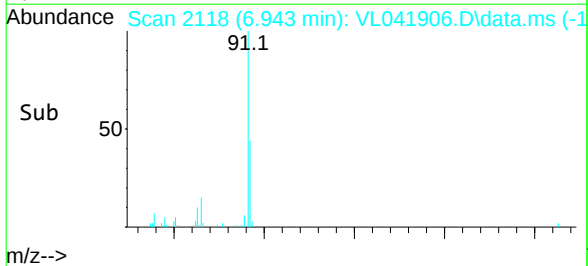
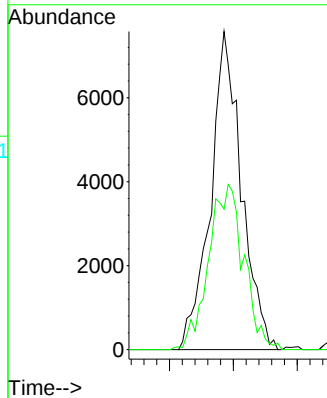
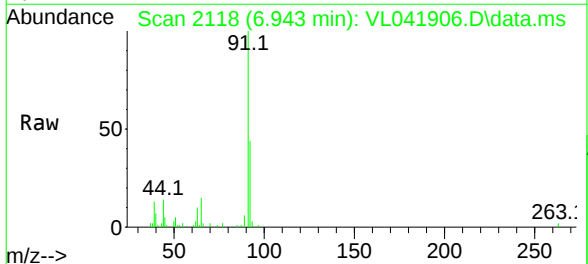
Manual Integrations  
**APPROVED**

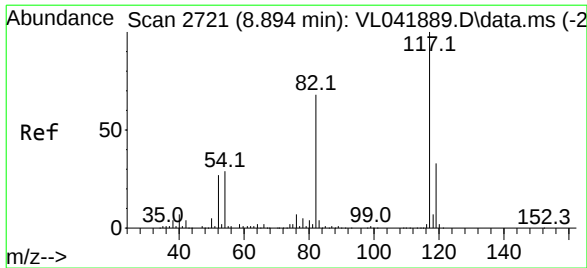
Reviewed By :Semsettin Yesilyurt 01/15/2025  
 Supervised By :Mahesh Dadoda 01/15/2025



#53  
**Toluene**  
 Concen: 0.321 ppbv  
 RT: 6.943 min Scan# 2118  
 Delta R.T. -0.010 min  
 Lab File: VL041906.D  
 Acq: 14 Jan 2025 23:22

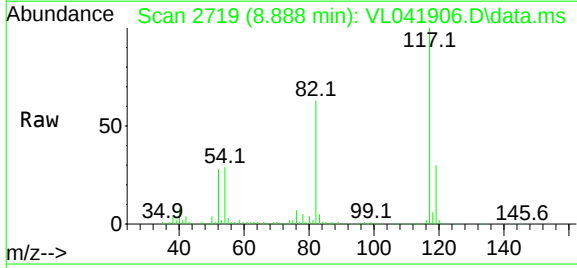
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 91    | Resp: | 12736 |
| Ion      | Ratio | Lower | Upper |
| 91       | 100   |       |       |
| 92       | 58.9  | 47.4  | 71.0  |





#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.888 min Scan# 2721  
Delta R.T. -0.007 min  
Lab File: VL041906.D  
Acq: 14 Jan 2025 23:22

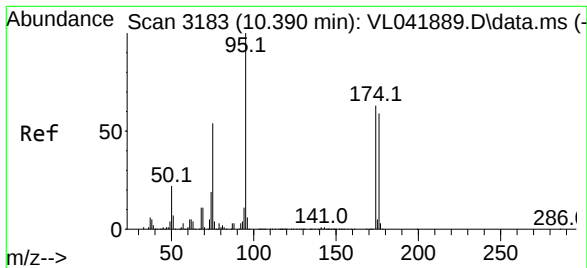
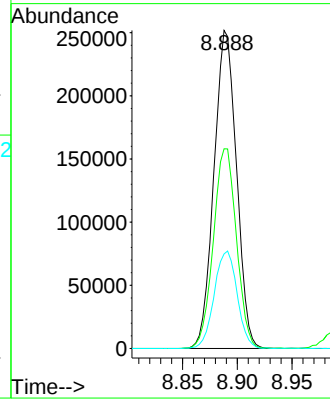
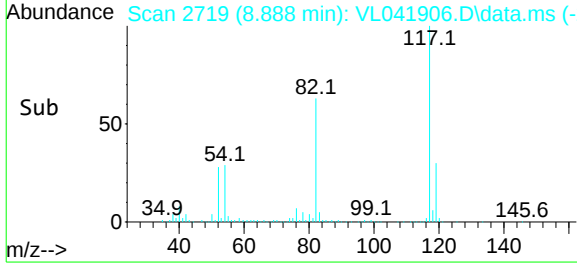
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV2



Tgt Ion: 117 Resp: 360198  
Ion Ratio Lower Upper  
117 100  
82 64.5 54.2 81.4  
119 31.3 25.0 37.6

Manual Integrations  
APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025  
Supervised By : Mahesh Dadoda 01/15/2025



#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.967 ppbv  
RT: 10.383 min Scan# 3181  
Delta R.T. -0.007 min  
Lab File: VL041906.D  
Acq: 14 Jan 2025 23:22

Tgt Ion: 95 Resp: 282769  
Ion Ratio Lower Upper  
95 100  
174 61.0 49.0 73.4  
175 4.8 3.8 5.8

