

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\DATA\VV092324\  
 Data File : VV037469.D  
 Acq On : 23 Sep 2024 10:32  
 Operator : SY/MD  
 Sample : P4106-04 100X  
 Misc : 5mL/MSVOA\_V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

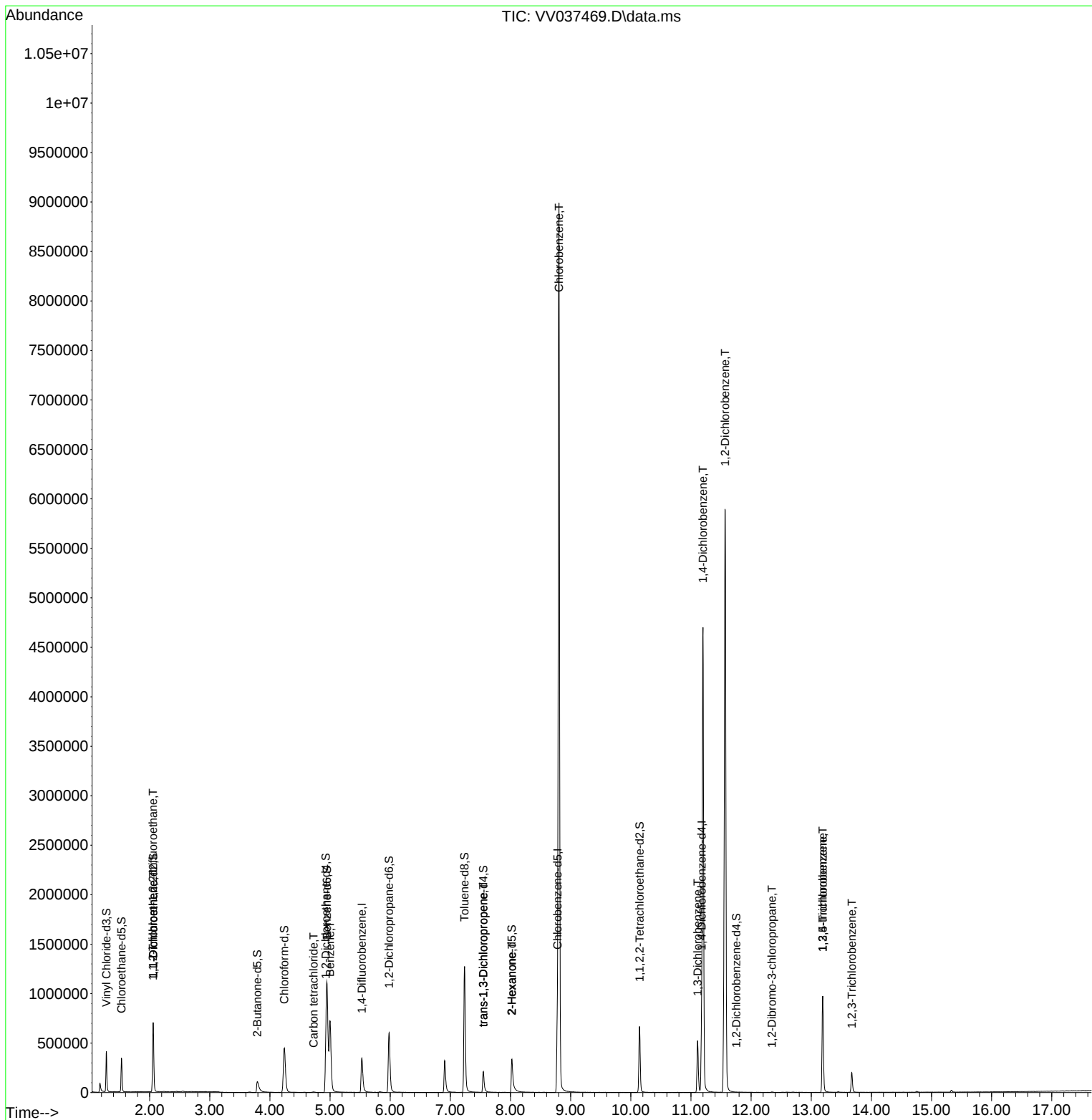
Instrument :  
 MSVOA\_V  
 ClientSampleId :

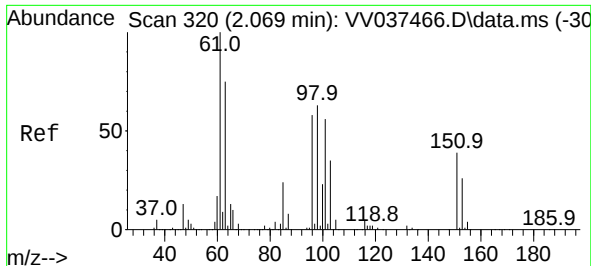
Quant Time: Sep 24 03:57:10 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM082624WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Sep 24 03:56:17 2024  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response             | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|----------------------|---------|--------|----------|
| -----                         |                |      |                      |         |        |          |
| Internal Standards            |                |      |                      |         |        |          |
| 1) 1,4-Difluorobenzene        | 5.529          | 114  | 319276               | 50.000  | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.780          | 117  | 322447               | 50.000  | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.178         | 152  | 162521               | 50.000  | ug/L   | 0.00     |
|                               |                |      |                      |         |        |          |
| System Monitoring Compounds   |                |      |                      |         |        |          |
| 4) Vinyl Chloride-d3          | 1.282          | 65   | 269035               | 92.116  | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 135 |      | Recovery = 184.240%# |         |        |          |
| 7) Chloroethane-d5            | 1.532          | 69   | 222923               | 98.760  | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 130 |      | Recovery = 197.520%# |         |        |          |
| 11) 1,1-Dichloroethene-d2     | 2.060          | 65   | 117273               | 95.535  | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 125 |      | Recovery = 191.080%# |         |        |          |
| 21) 2-Butanone-d5             | 3.789          | 46   | 187670               | 165.932 | ug/L   | 0.00     |
| Spiked Amount 100.000         | Range 40 - 130 |      | Recovery = 165.930%# |         |        |          |
| 24) Chloroform-d              | 4.240          | 84   | 482223               | 105.496 | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = 211.000%# |         |        |          |
| 26) 1,2-Dichloroethane-d4     | 4.931          | 65   | 288812               | 100.332 | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = 200.660%# |         |        |          |
| 32) Benzene-d6                | 4.950          | 84   | 983658               | 101.000 | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = 202.000%# |         |        |          |
| 36) 1,2-Dichloropropane-d6    | 5.982          | 67   | 310781               | 101.881 | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 120 |      | Recovery = 203.760%# |         |        |          |
| 41) Toluene-d8                | 7.236          | 98   | 854535               | 97.220  | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = 194.440%# |         |        |          |
| 43) trans-1,3-Dichloroprop... | 7.548          | 79   | 130755               | 92.651  | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 125 |      | Recovery = 185.300%# |         |        |          |
| 47) 2-Hexanone-d5             | 8.021          | 63   | 117095               | 140.651 | ug/L   | 0.00     |
| Spiked Amount 100.000         | Range 45 - 130 |      | Recovery = 140.650%# |         |        |          |
| 56) 1,1,2,2-Tetrachloroeth... | 10.146         | 84   | 328656               | 88.836  | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 120 |      | Recovery = 177.680%# |         |        |          |
| 66) 1,2-Dichlorobenzene-d4    | 11.754         | 152  | 63                   | 0.019   | ug/L   | 0.20     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = 0.040%#   |         |        |          |
|                               |                |      |                      |         |        |          |
| Target Compounds              |                |      |                      |         |        | Qvalue   |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.056          | 101  | 3228                 | 1.460   | ug/L # | 25       |
| 12) 1,1-Dichloroethene        | 2.060          | 96   | 3340                 | 1.603   | ug/L # | 1        |
| 31) Carbon tetrachloride      | 4.725          | 117  | 4327                 | 1.382   | ug/L   | 94       |
| 33) Benzene                   | 5.002          | 78   | 761957               | 81.882  | ug/L   | 100      |
| 44) trans-1,3-Dichloropropene | 7.548          | 75   | 4985                 | 1.417   | ug/L # | 75       |
| 48) 2-Hexanone                | 8.024          | 43   | 14168                | 7.223   | ug/L # | 84       |
| 51) Chlorobenzene             | 8.805          | 112  | 4609660              | 718.652 | ug/L   | 99       |
| 64) 1,3-Dichlorobenzene       | 11.111         | 146  | 209604               | 43.083  | ug/L   | 99       |
| 65) 1,4-Dichlorobenzene       | 11.201         | 146  | 1814151              | 364.327 | ug/L   | 99       |
| 67) 1,2-Dichlorobenzene       | 11.570         | 146  | 2238188              | 467.873 | ug/L   | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 12.345         | 75   | 1323                 | 2.098   | ug/L # | 4        |
| 69) 1,3,5-Trichlorobenzene    | 13.191         | 180  | 290971               | 85.953  | ug/L   | 98       |
| 70) 1,2,4-trichlorobenzene    | 13.191         | 180  | 290971               | 91.280  | ug/L   | 99       |
| 72) 1,2,3-Trichlorobenzene    | 13.677         | 180  | 59206                | 18.847  | ug/L   | 97       |
| -----                         |                |      |                      |         |        |          |

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

Quant Time: Sep 24 03:57:10 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM082624WMA.M  
Quant Title : VOC Analysis  
QLast Update : Tue Sep 24 03:56:17 2024  
Response via : Initial Calibration

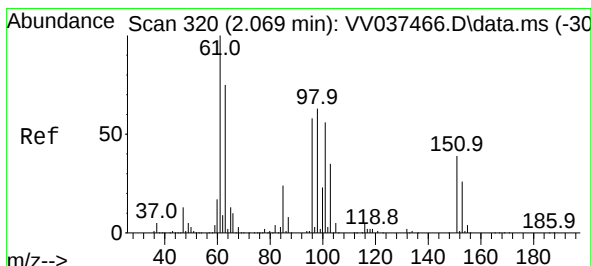
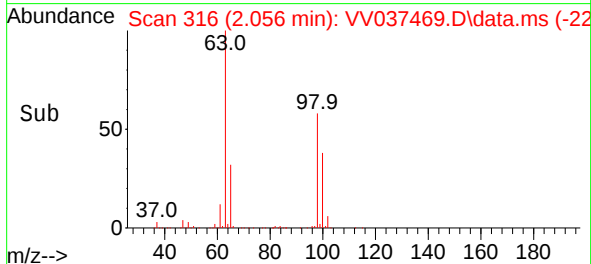
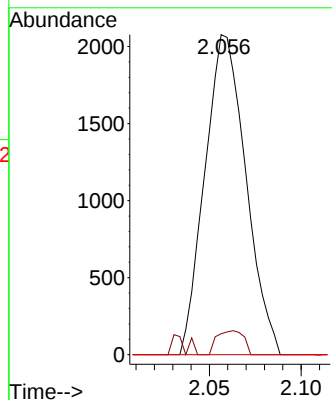
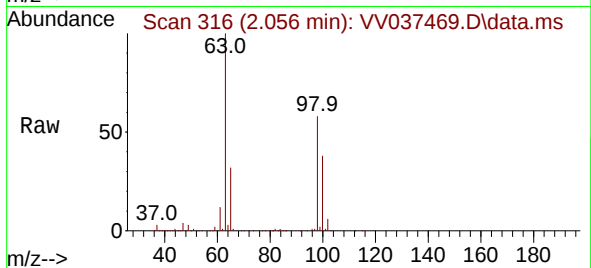




#10  
1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 1.460 ug/L  
RT: 2.056 min Scan# 316  
Delta R.T. -0.013 min  
Lab File: VV037469.D  
Acq: 23 Sep 2024 10:32

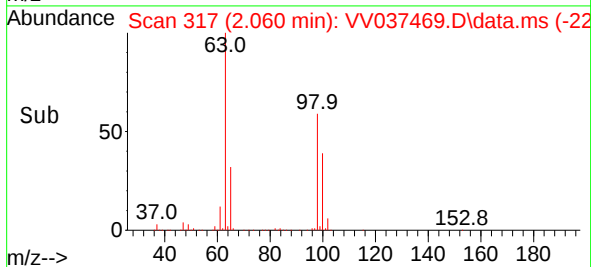
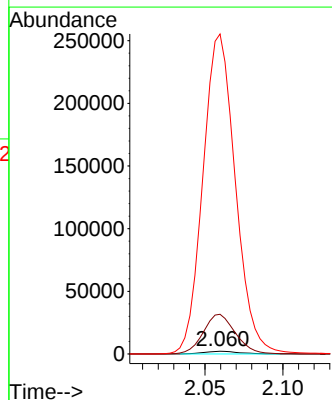
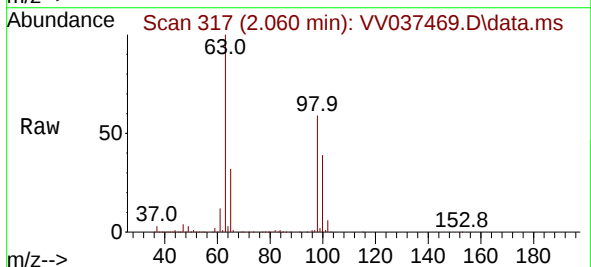
Instrument :  
MSVOA\_V  
ClientSampleId :

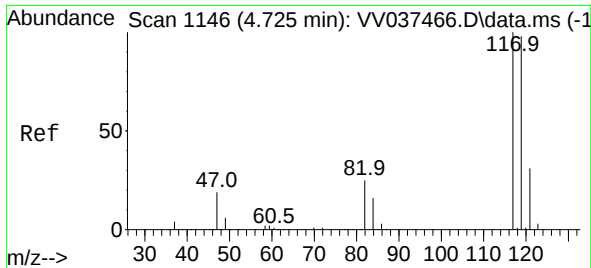
Tgt Ion:101 Resp: 3228  
Ion Ratio Lower Upper  
101 100  
85 4.9 35.6 53.4#  
151 0.0 55.0 82.4#



#12  
1,1-Dichloroethene  
Concen: 1.603 ug/L  
RT: 2.060 min Scan# 317  
Delta R.T. -0.010 min  
Lab File: VV037469.D  
Acq: 23 Sep 2024 10:32

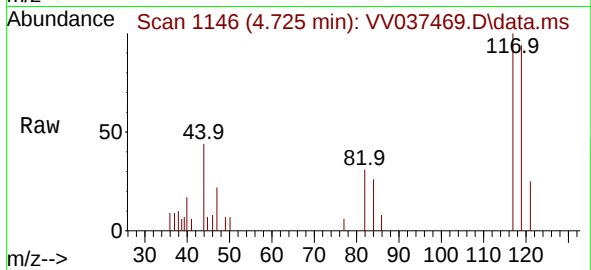
Tgt Ion: 96 Resp: 3340  
Ion Ratio Lower Upper  
96 100  
61 1493.3 123.8 229.8#  
63 12039.6 96.5 179.1#



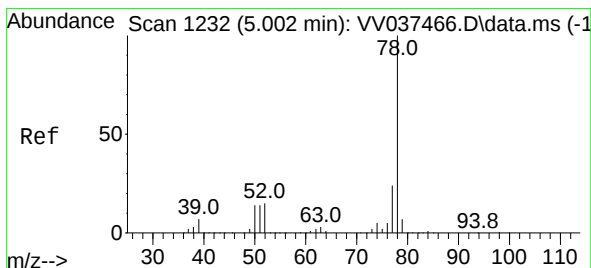
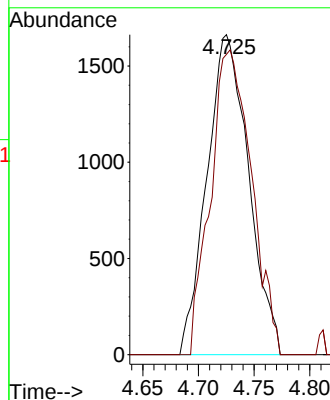
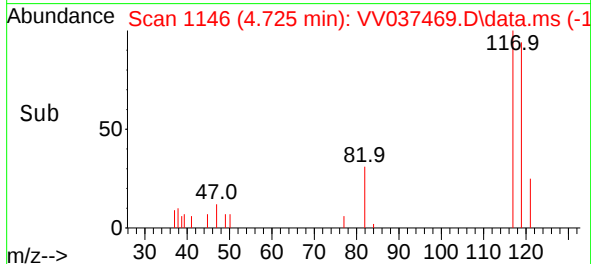


#31  
Carbon tetrachloride  
Concen: 1.382 ug/L  
RT: 4.725 min Scan# 1146  
Delta R.T. -0.000 min  
Lab File: VV037469.D  
Acq: 23 Sep 2024 10:32

Instrument :  
MSVOA\_V  
ClientSampleId :

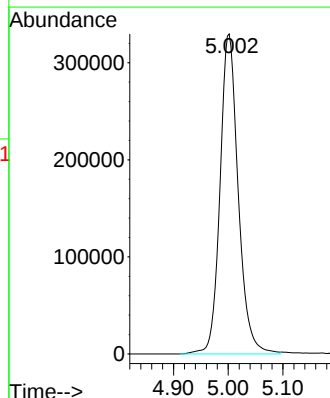
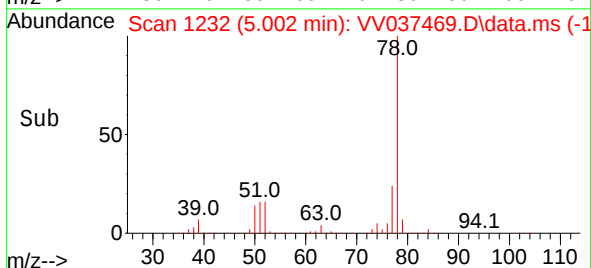
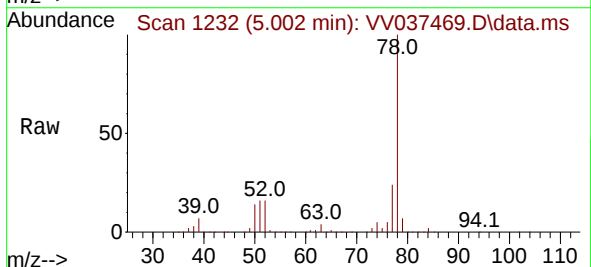


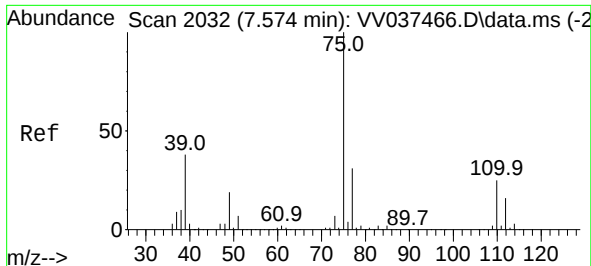
Tgt Ion:117 Resp: 4327  
Ion Ratio Lower Upper  
117 100  
119 88.9 75.8 113.6



#33  
Benzene  
Concen: 81.882 ug/L  
RT: 5.002 min Scan# 1232  
Delta R.T. -0.000 min  
Lab File: VV037469.D  
Acq: 23 Sep 2024 10:32

Tgt Ion: 78 Resp: 761957





#44

trans-1,3-Dichloropropene

Concen: 1.417 ug/L

RT: 7.548 min Scan# 2032

Delta R.T. -0.026 min

Lab File: VV037469.D

Acq: 23 Sep 2024 10:32

Instrument :

MSVOA\_V

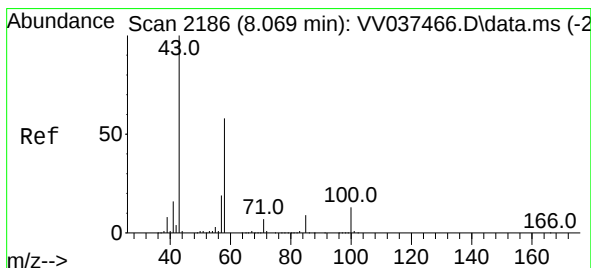
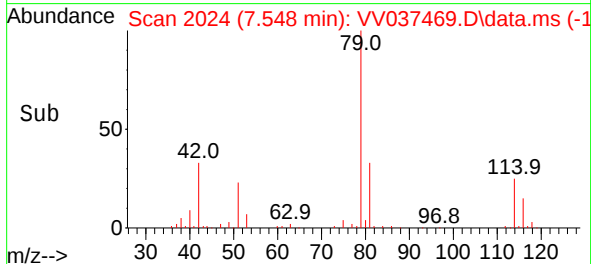
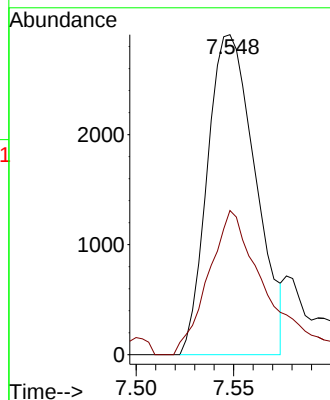
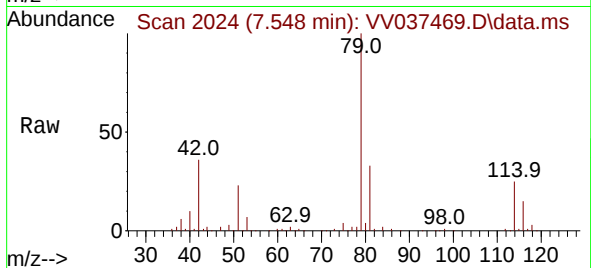
ClientSampleId :

Tgt Ion: 75 Resp: 4985

Ion Ratio Lower Upper

75 100

77 45.0 22.0 40.8#



#48

2-Hexanone

Concen: 7.223 ug/L

RT: 8.024 min Scan# 2172

Delta R.T. -0.045 min

Lab File: VV037469.D

Acq: 23 Sep 2024 10:32

Tgt Ion: 43 Resp: 14168

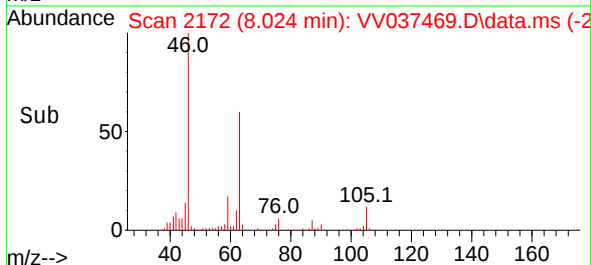
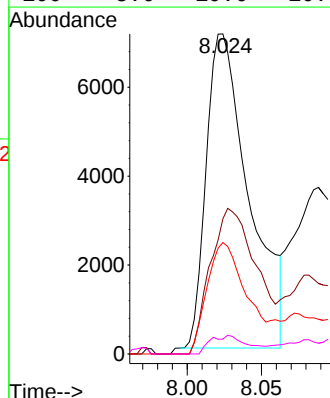
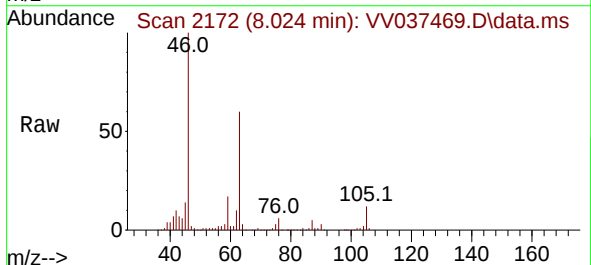
Ion Ratio Lower Upper

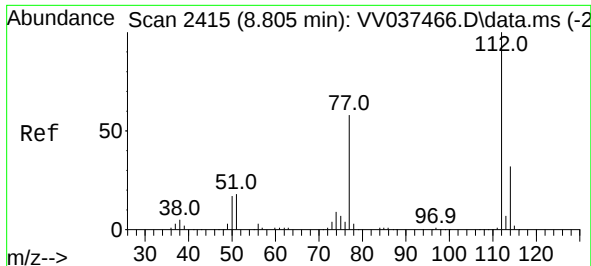
43 100

58 50.4 46.0 69.0

57 32.5 15.6 23.4#

100 3.6 10.6 16.0#





#51

Chlorobenzene

Concen: 718.652 ug/L

RT: 8.805 min Scan# 2415

Delta R.T. -0.000 min

Lab File: VV037469.D

Acq: 23 Sep 2024 10:32

Instrument :

MSVOA\_V

ClientSampleId :

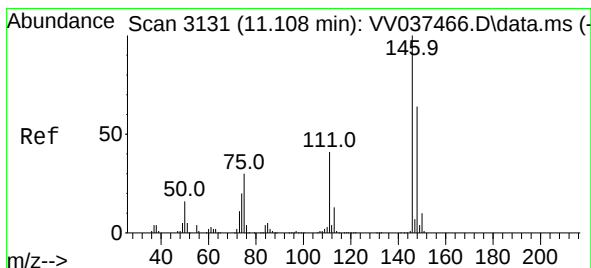
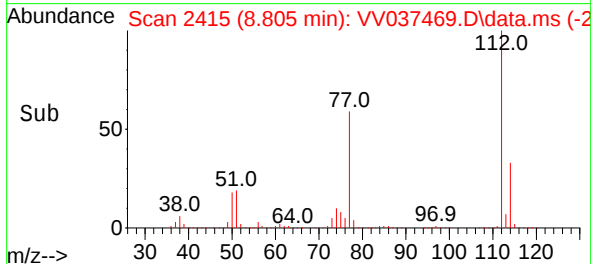
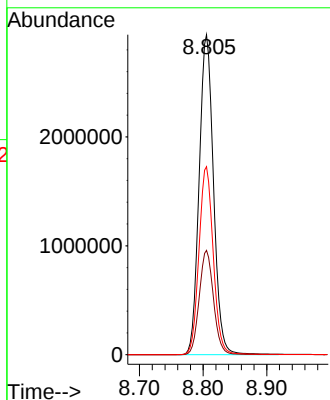
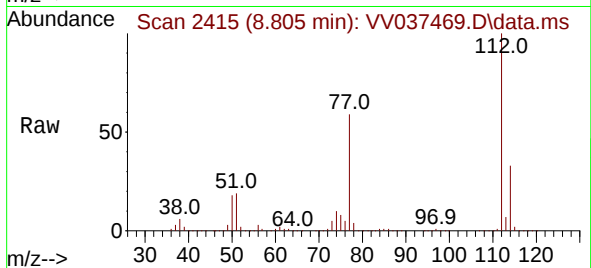
Tgt Ion:112 Resp: 4609660

Ion Ratio Lower Upper

112 100

114 32.6 22.3 41.5

77 58.8 47.8 71.8



#64

1,3-Dichlorobenzene

Concen: 43.083 ug/L

RT: 11.111 min Scan# 3132

Delta R.T. 0.003 min

Lab File: VV037469.D

Acq: 23 Sep 2024 10:32

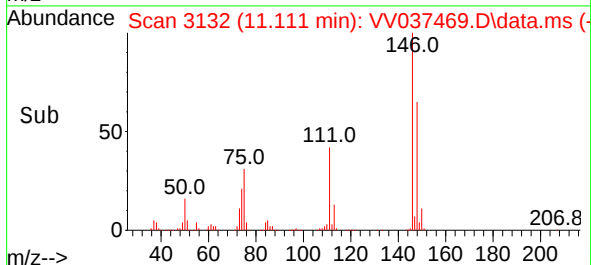
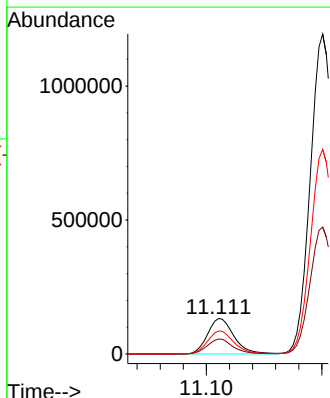
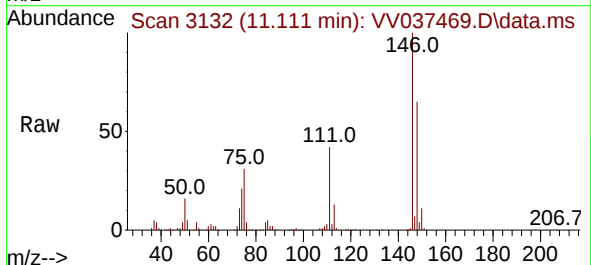
Tgt Ion:146 Resp: 209604

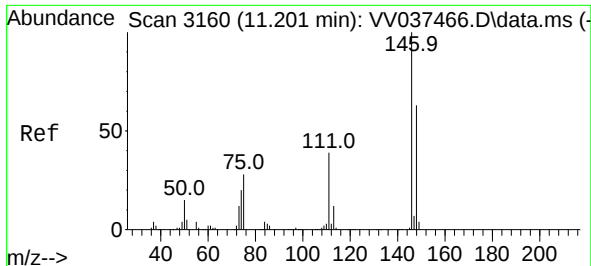
Ion Ratio Lower Upper

146 100

111 42.3 29.7 55.1

148 65.0 44.8 83.2





#65

1,4-Dichlorobenzene

Concen: 364.327 ug/L

RT: 11.201 min Scan# 3160

Delta R.T. -0.000 min

Lab File: VV037469.D

Acq: 23 Sep 2024 10:32

Instrument :

MSVOA\_V

ClientSampleId :

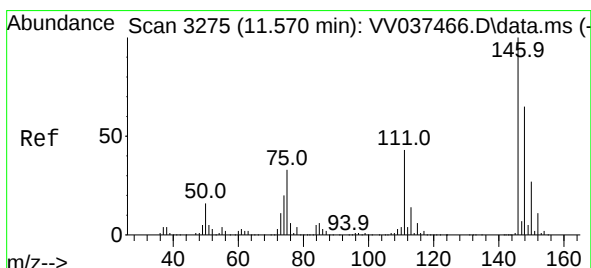
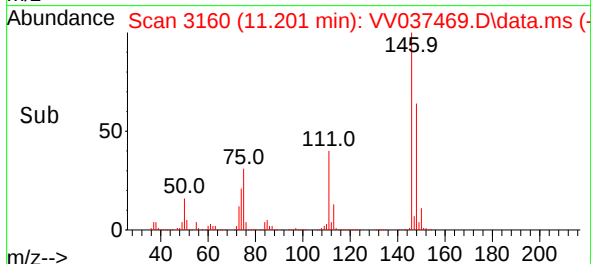
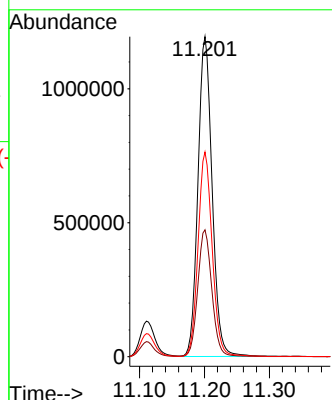
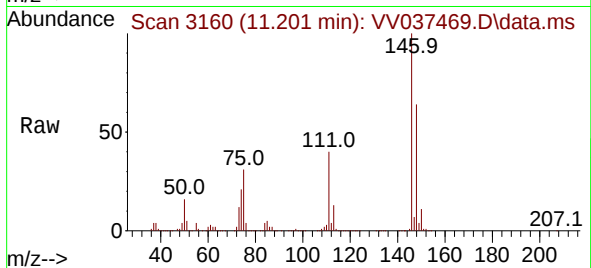
Tgt Ion:146 Resp: 1814151

Ion Ratio Lower Upper

146 100

111 39.7 28.1 52.1

148 63.9 44.2 82.0



#67

1,2-Dichlorobenzene

Concen: 467.873 ug/L

RT: 11.570 min Scan# 3275

Delta R.T. -0.000 min

Lab File: VV037469.D

Acq: 23 Sep 2024 10:32

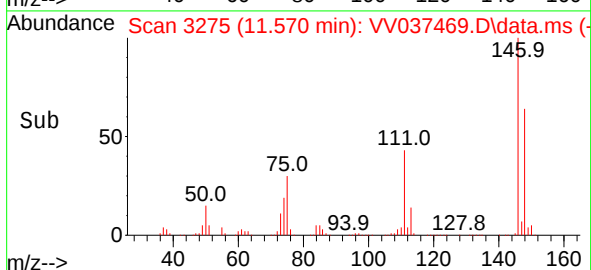
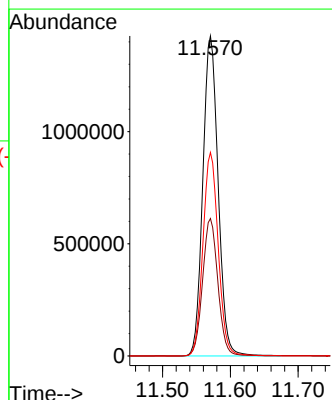
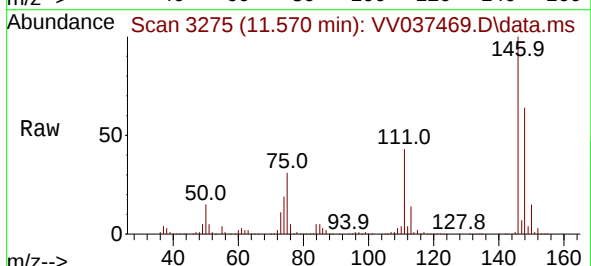
Tgt Ion:146 Resp: 2238188

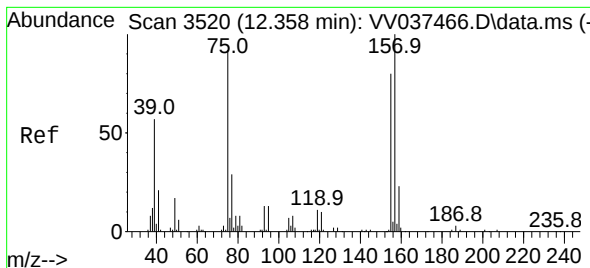
Ion Ratio Lower Upper

146 100

111 43.0 34.6 51.8

148 63.6 50.2 75.4





#68

1,2-Dibromo-3-chloropropane

Concen: 2.098 ug/L

RT: 12.345 min Scan# 3516

Delta R.T. -0.013 min

Lab File: VV037469.D

Acq: 23 Sep 2024 10:32

Instrument :

MSVOA\_V

ClientSampleId :

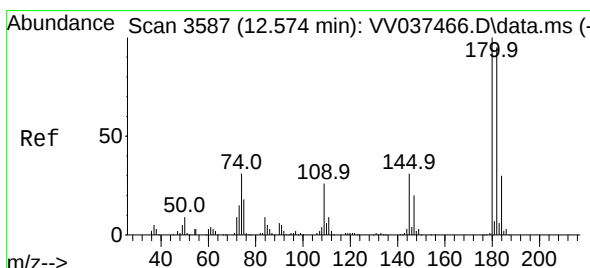
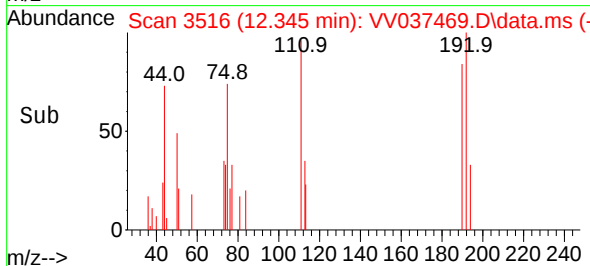
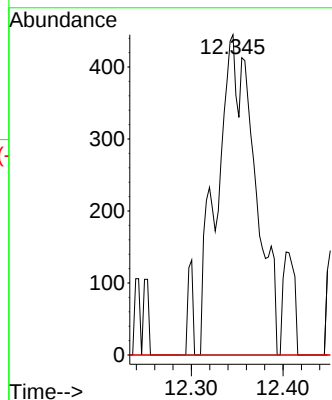
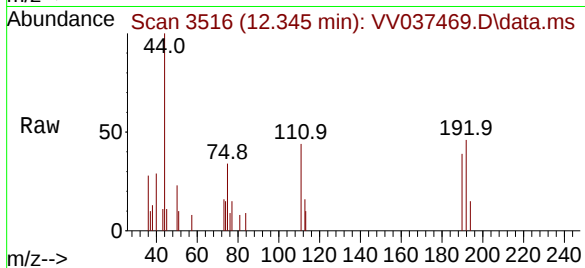
Tgt Ion: 75 Resp: 1323

Ion Ratio Lower Upper

75 100

155 0.0 61.8 92.6#

157 0.0 82.5 123.7#



#69

1,3,5-Trichlorobenzene

Concen: 85.953 ug/L

RT: 13.191 min Scan# 3779

Delta R.T. 0.617 min

Lab File: VV037469.D

Acq: 23 Sep 2024 10:32

Tgt Ion:180 Resp: 290971

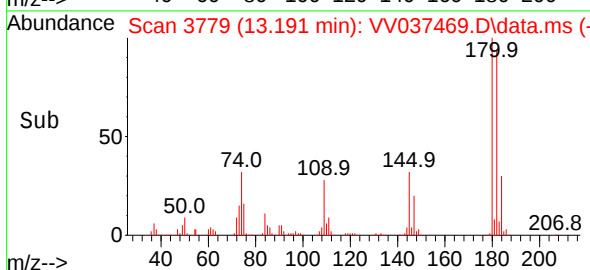
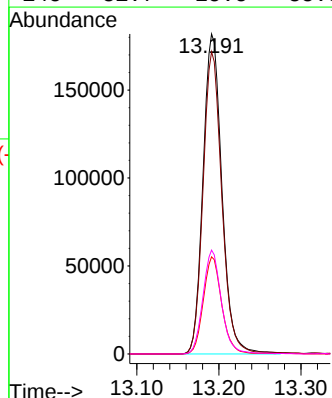
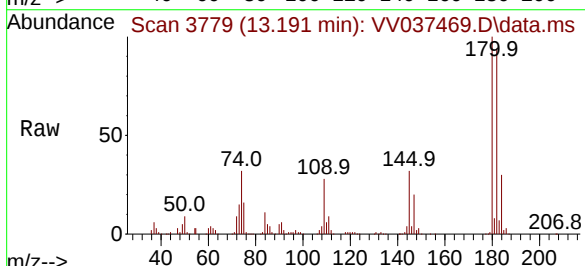
Ion Ratio Lower Upper

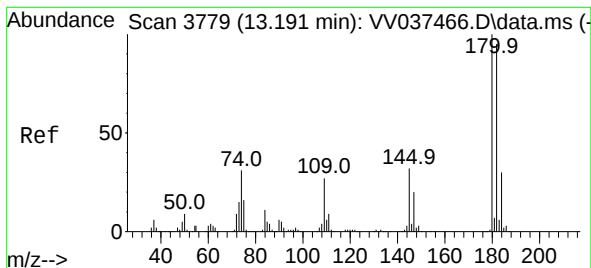
180 100

182 93.5 76.7 115.1

184 29.4 24.2 36.2

145 31.7 25.5 38.3





#70

1,2,4-trichlorobenzene

Concen: 91.280 ug/L

RT: 13.191 min Scan# 31

Delta R.T. -0.000 min

Lab File: VV037469.D

Acq: 23 Sep 2024 10:32

Instrument :

MSVOA\_V

ClientSampleId :

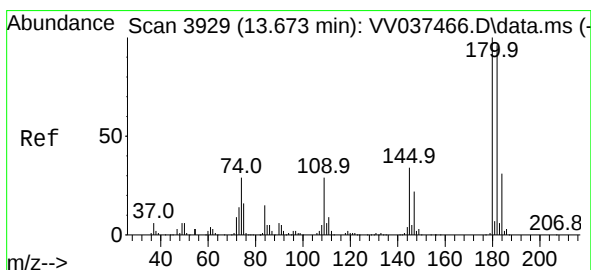
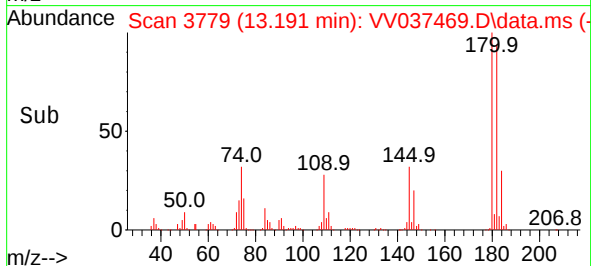
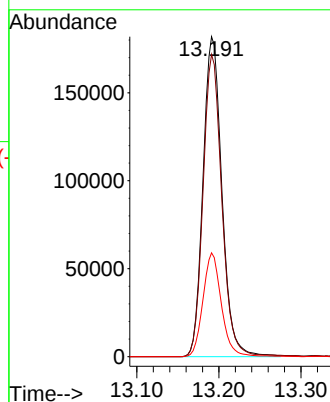
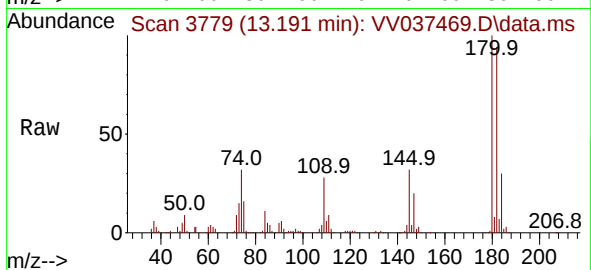
Tgt Ion:180 Resp: 290971

Ion Ratio Lower Upper

180 100

182 93.5 75.7 113.5

145 31.7 26.0 39.0



#72

1,2,3-Trichlorobenzene

Concen: 18.847 ug/L

RT: 13.677 min Scan# 3930

Delta R.T. 0.003 min

Lab File: VV037469.D

Acq: 23 Sep 2024 10:32

Tgt Ion:180 Resp: 59206

Ion Ratio Lower Upper

180 100

182 98.3 75.1 112.7

145 33.6 27.0 40.4

