

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW011323\  
 Data File : VW029839.D  
 Acq On : 14 Jan 2023 03:53  
 Operator : SY/MD  
 Sample : 01149-02 20X  
 Misc : 25.0mL/MSVOA\_V/WATER  
 ALS Vial : 46 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 COL52

Quant Time: Jan 14 04:21:18 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR011223WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Thu Jan 12 22:05:54 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.609  | 114   | 204155   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.844  | 117   | 194432   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.236 | 152   | 102497   | 5.000    | ug/L   | 0.00     |
|                               |        |       |          |          |        |          |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.304  | 65    | 66290    | 4.281    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 85.600%  |
| 7) Chloroethane-d5            | 1.564  | 69    | 64065    | 4.991    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 99.800%  |
| 11) 1,1-Dichloroethene-d2     | 2.104  | 63    | 116405   | 4.124    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 82.400%  |
| 20) 2-Butanone-d5             | 3.889  | 46    | 151375   | 55.154   | ug/L   | -0.01    |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 110.300% |
| 24) Chloroform-d              | 4.339  | 84    | 139239   | 4.902    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 98.000%  |
| 26) 1,2-Dichloroethane-d4     | 5.024  | 65    | 61875    | 5.143    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 102.800% |
| 32) Benzene-d6                | 5.043  | 84    | 288756   | 5.007    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 100.200% |
| 36) 1,2-Dichloropropane-d6    | 6.063  | 67    | 89749    | 5.317    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 106.400% |
| 41) Toluene-d8                | 7.307  | 98    | 247221   | 4.630    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 92.600%  |
| 43) trans-1,3-Dichloroprop... | 7.616  | 79    | 24768    | 4.018    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 80.400%  |
| 46) 2-Hexanone-d5             | 8.085  | 63    | 127691   | 50.879   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 101.760% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.204 | 84    | 63074    | 5.099    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 102.000% |
| 66) 1,2-Dichlorobenzene-d4    | 11.612 | 152   | 91878    | 4.931    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 98.600%  |
|                               |        |       |          |          |        |          |
| Target Compounds              |        |       |          |          |        | Qvalue   |
| 3) Chloromethane              | 1.240  | 50    | 2220     | 0.111    | ug/L   | 94       |
| 5) Vinyl chloride             | 1.307  | 62    | 26462    | 1.350    | ug/L   | 97       |
| 6) Bromomethane               | 1.519  | 94    | 797      | 0.083    | ug/L   | 73       |
| 8) Chloroethane               | 1.584  | 64    | 2315     | 0.195    | ug/L   | 90       |
| 12) 1,1-Dichloroethene        | 2.114  | 96    | 48627    | 2.789    | ug/L # | 76       |
| 16) Methylene chloride        | 2.500  | 84    | 35248    | 1.628    | ug/L   | 94       |
| 17) Methyl tert-butyl Ether   | 2.764  | 73    | 1404     | 0.047    | ug/L   | 96       |
| 18) trans-1,2-Dichloroethene  | 2.757  | 96    | 34959    | 2.157    | ug/L   | 94       |
| 22) cis-1,2-Dichloroethene    | 3.902  | 96    | 472347   | 27.355   | ug/L   | 99       |
| 34) Trichloroethene           | 5.905  | 95    | 4196485  | 257.593  | ug/L   | 95       |
| 35) Methylcyclohexane         | 6.063  | 83    | 21035    | 0.765    | ug/L # | 20       |
| 37) 1,2-Dichloropropane       | 6.063  | 63    | 9179     | 0.610    | ug/L # | 94       |
| 39) cis-1,3-Dichloropropene   | 6.979  | 75    | 1767     | 0.088    | ug/L # | 54       |
| 47) Tetrachloroethene         | 7.966  | 164   | 627      | 0.046    | ug/L   | 93       |
| 49) Dibromochloromethane      | 7.969  | 129   | 675      | 0.053    | ug/L # | 11       |
| 61) 1,2,3-Trichloropropane    | 11.236 | 75    | 11243    | 1.481    | ug/L # | 64       |
| -----                         |        |       |          |          |        |          |

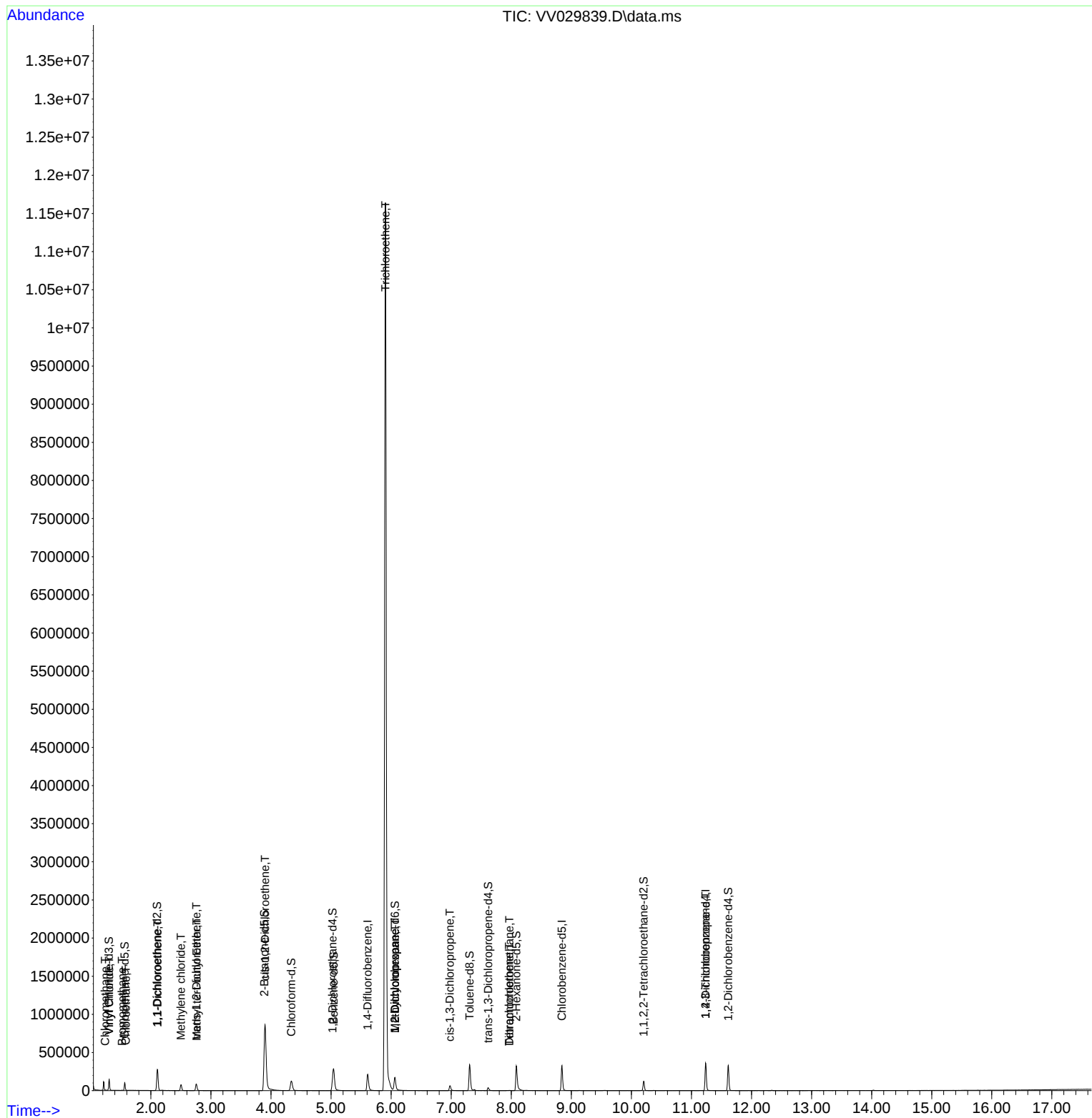
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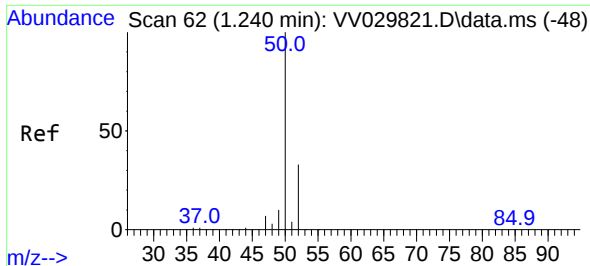
**Instrument :**  
MSVOA\_V  
**ClientSampleId :**  
C0L52

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV011323\  
Data File : VV029839.D  
Acq On : 14 Jan 2023 03:53  
Operator : SY/MD  
Sample : 01149-02 20X  
Misc : 25.0mL/MSVOA\_V/WATER  
ALS Vial : 46 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
COL52

Quant Time: Jan 14 04:21:18 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR011223WMA.M  
Quant Title : TRACE VOA SFAM1.0  
QLast Update : Thu Jan 12 22:05:54 2023  
Response via : Initial Calibration

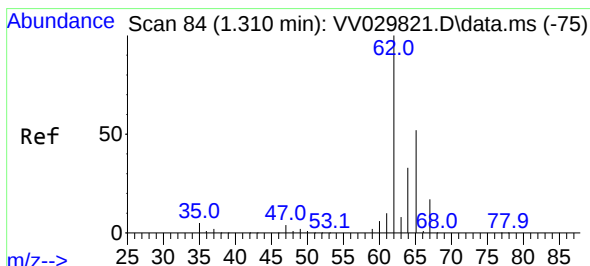
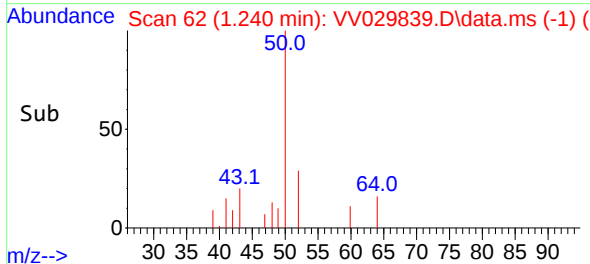
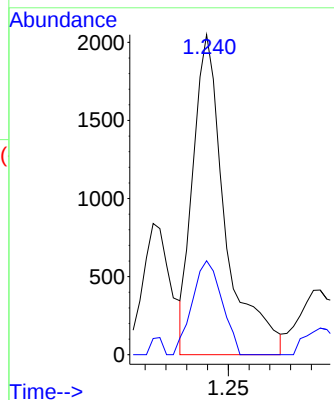
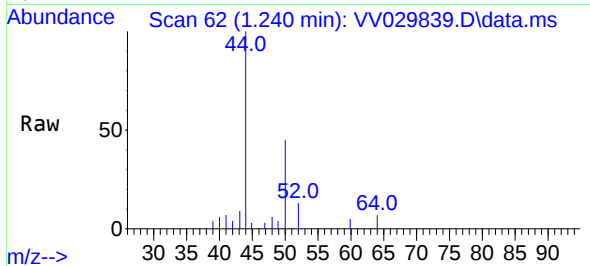




#3  
Chloromethane  
Concen: 0.111 ug/L  
RT: 1.240 min Scan# 61  
Delta R.T. 0.003 min  
Lab File: VV029839.D  
Acq: 14 Jan 2023 03:53

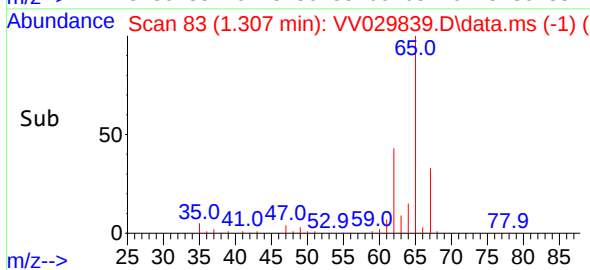
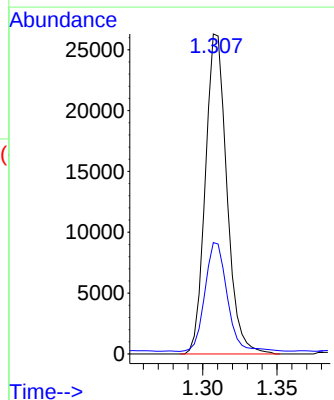
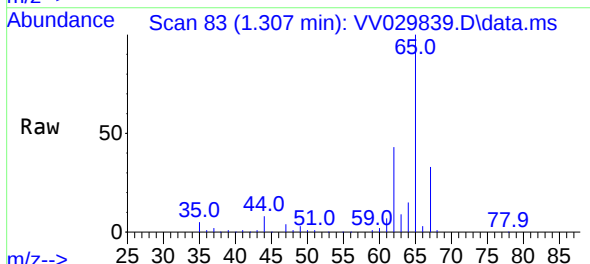
Instrument :  
MSVOA\_V  
ClientSampleId :  
COL52

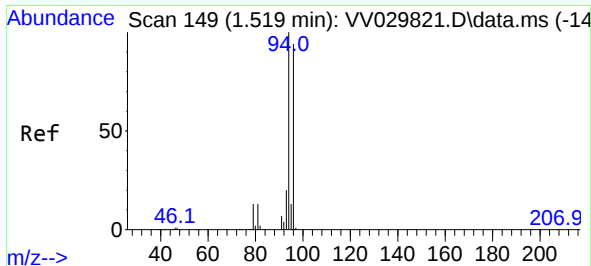
Tgt Ion: 50 Resp: 2220  
Ion Ratio Lower Upper  
50 100  
52 29.4 23.1 42.9



#5  
Vinyl chloride  
Concen: 1.350 ug/L  
RT: 1.307 min Scan# 83  
Delta R.T. 0.003 min  
Lab File: VV029839.D  
Acq: 14 Jan 2023 03:53

Tgt Ion: 62 Resp: 26462  
Ion Ratio Lower Upper  
62 100  
64 34.8 23.2 43.2

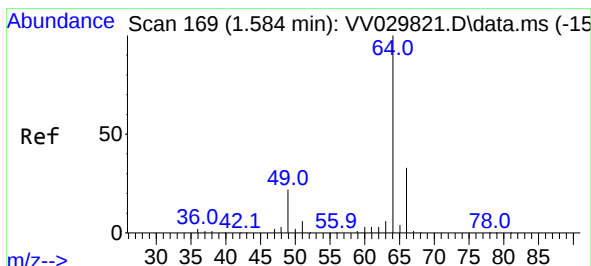
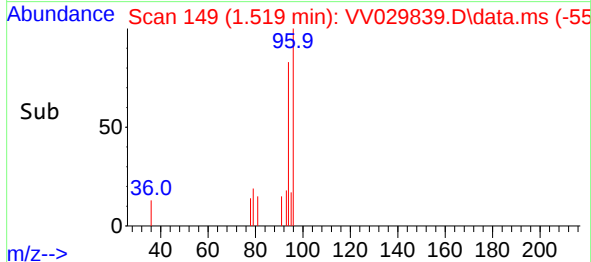
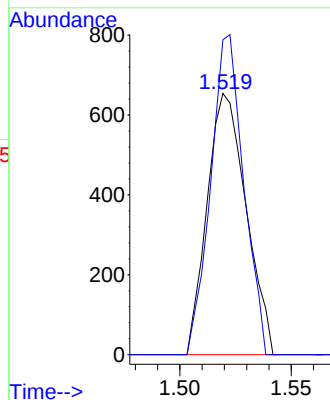
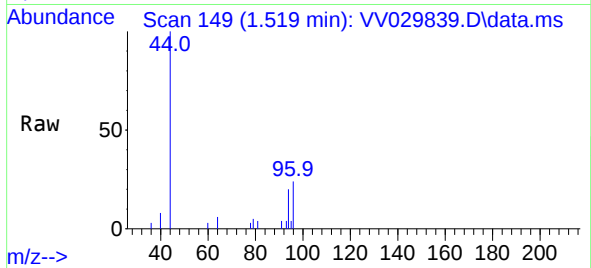




#6  
Bromomethane  
Concen: 0.083 ug/L  
RT: 1.519 min Scan# 149  
Delta R.T. 0.003 min  
Lab File: VV029839.D  
Acq: 14 Jan 2023 03:53

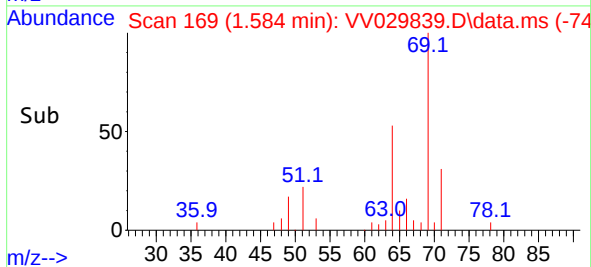
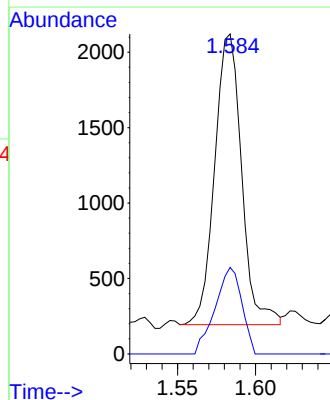
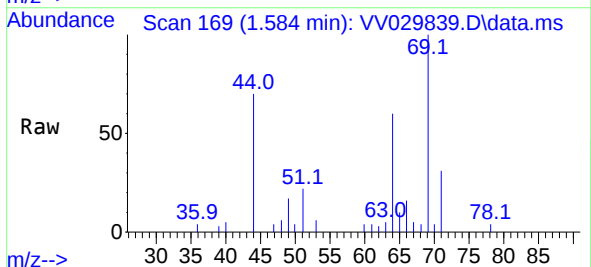
Instrument :  
MSVOA\_V  
ClientSampleId :  
COL52

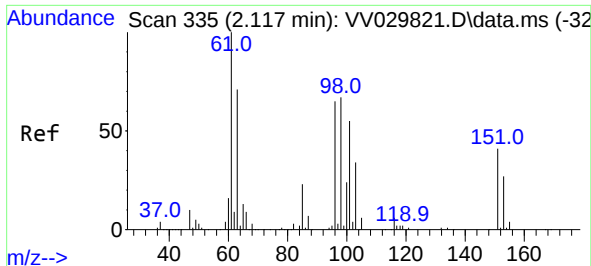
Tgt Ion: 94 Resp: 797  
Ion Ratio Lower Upper  
94 100  
96 120.5 65.9 122.5



#8  
Chloroethane  
Concen: 0.195 ug/L  
RT: 1.584 min Scan# 169  
Delta R.T. 0.006 min  
Lab File: VV029839.D  
Acq: 14 Jan 2023 03:53

Tgt Ion: 64 Resp: 2315  
Ion Ratio Lower Upper  
64 100  
66 27.0 22.9 42.5

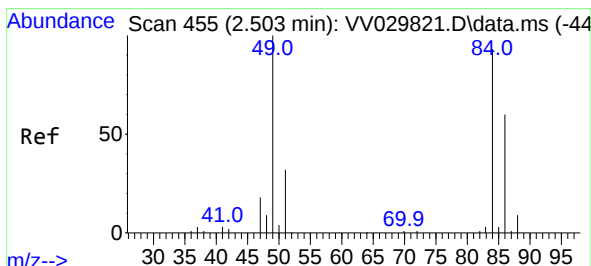
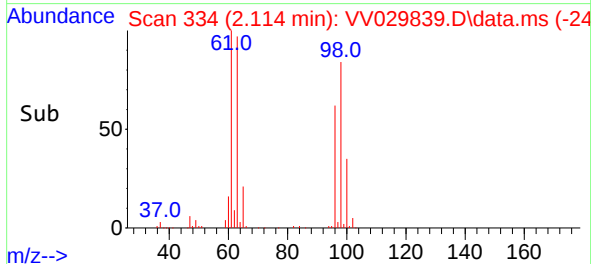
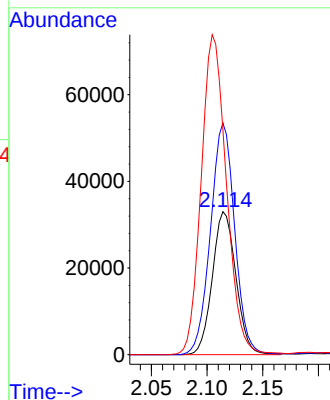
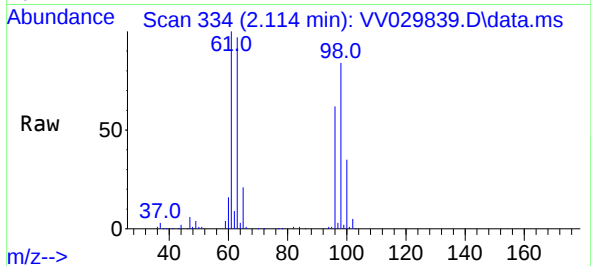




#12  
1,1-Dichloroethene  
Concen: 2.789 ug/L  
RT: 2.114 min Scan# 311  
Delta R.T. 0.003 min  
Lab File: VV029839.D  
Acq: 14 Jan 2023 03:53

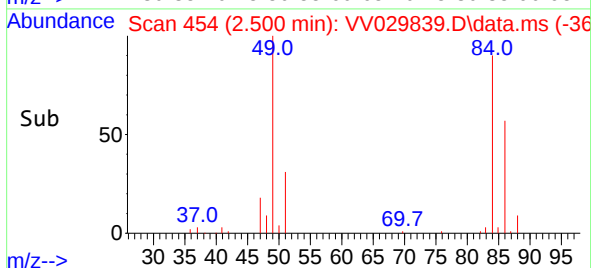
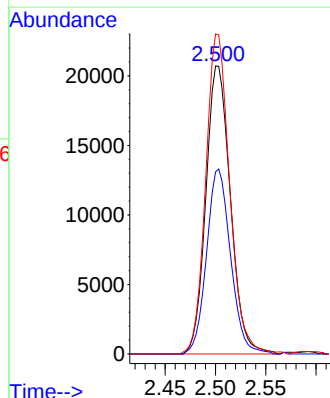
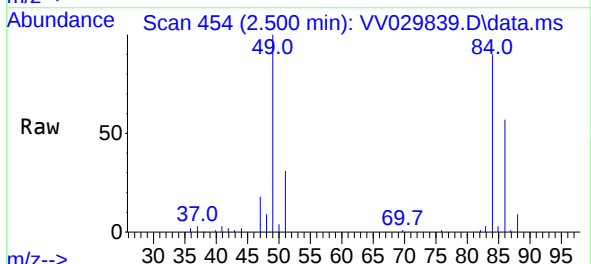
Instrument :  
MSVOA\_V  
ClientSampleId :  
COL52

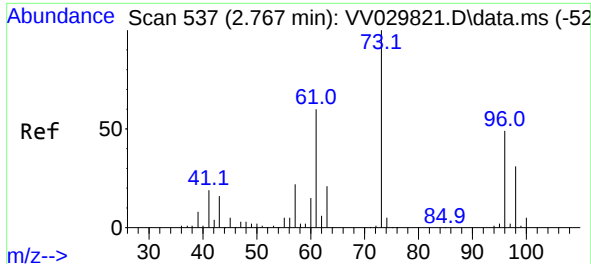
Tgt Ion: 96 Resp: 48627  
Ion Ratio Lower Upper  
96 100  
61 162.0 106.1 197.1  
63 157.2 76.4 141.8#



#16  
Methylene chloride  
Concen: 1.628 ug/L  
RT: 2.500 min Scan# 454  
Delta R.T. 0.003 min  
Lab File: VV029839.D  
Acq: 14 Jan 2023 03:53

Tgt Ion: 84 Resp: 35248  
Ion Ratio Lower Upper  
84 100  
86 63.2 45.0 83.6  
49 111.1 71.5 132.7





#17

Methyl tert-butyl Ether

Concen: 0.047 ug/L

RT: 2.764 min Scan# 51

Delta R.T. 0.003 min

Lab File: VV029839.D

Acq: 14 Jan 2023 03:53

Instrument :

MSVOA\_V

ClientSampleId :

COL52

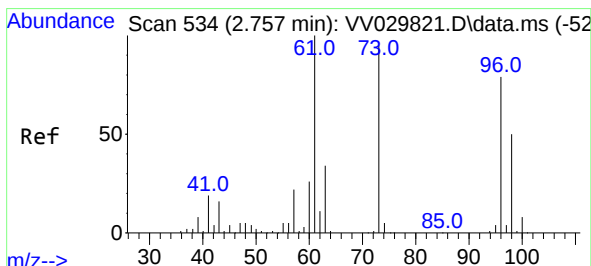
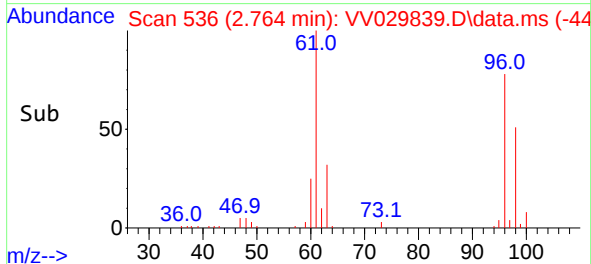
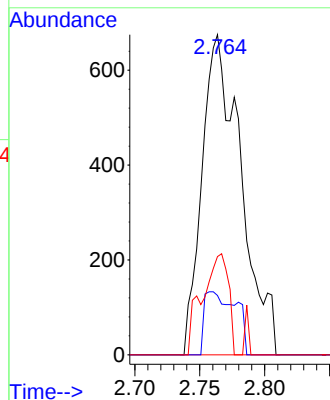
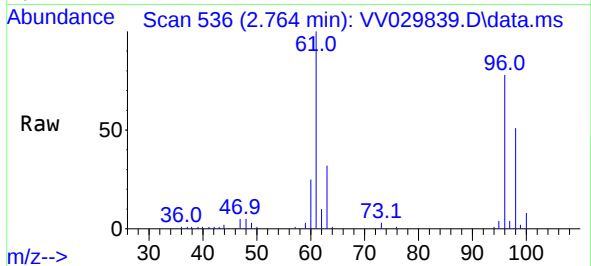
Tgt Ion: 73 Resp: 1404

Ion Ratio Lower Upper

73 100

43 13.0 13.0 19.4

57 21.2 17.1 25.7



#18

trans-1,2-Dichloroethene

Concen: 2.157 ug/L

RT: 2.757 min Scan# 534

Delta R.T. 0.006 min

Lab File: VV029839.D

Acq: 14 Jan 2023 03:53

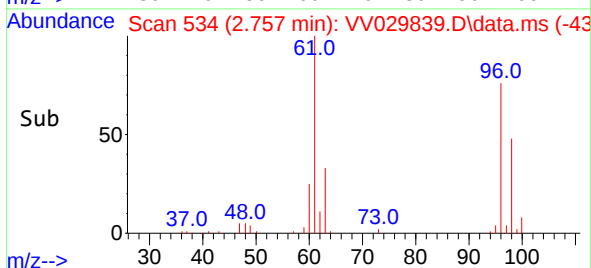
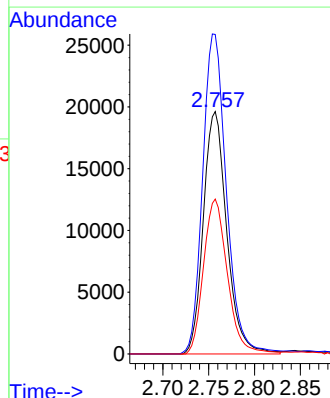
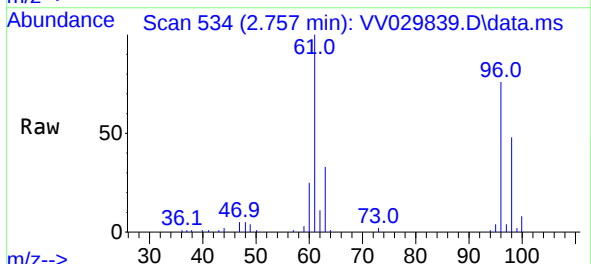
Tgt Ion: 96 Resp: 34959

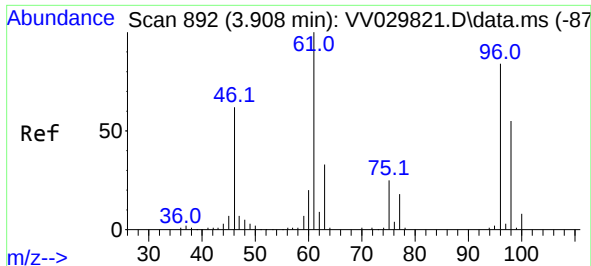
Ion Ratio Lower Upper

96 100

61 131.8 86.1 159.9

98 63.9 43.9 81.5

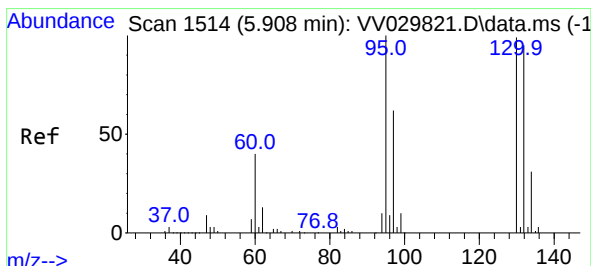
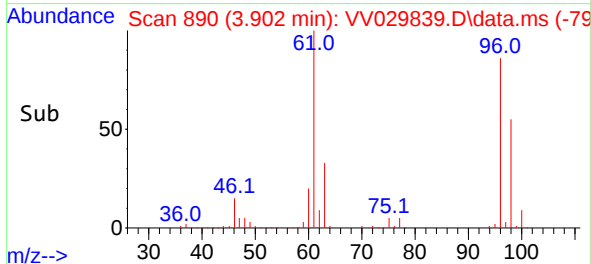
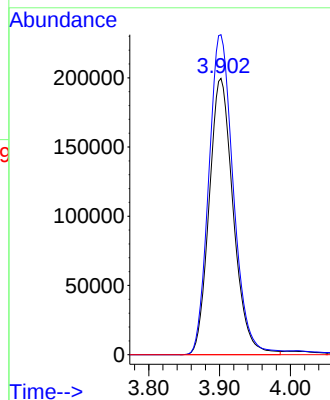
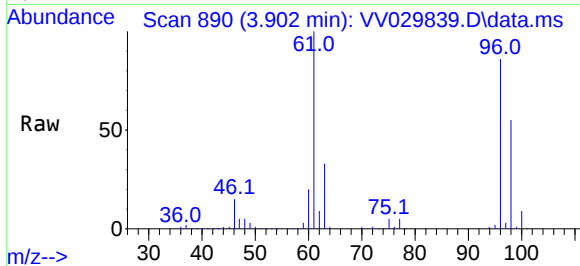




#22  
 cis-1,2-Dichloroethene  
 Concen: 27.355 ug/L  
 RT: 3.902 min Scan# 89  
 Delta R.T. 0.003 min  
 Lab File: VV029839.D  
 Acq: 14 Jan 2023 03:53

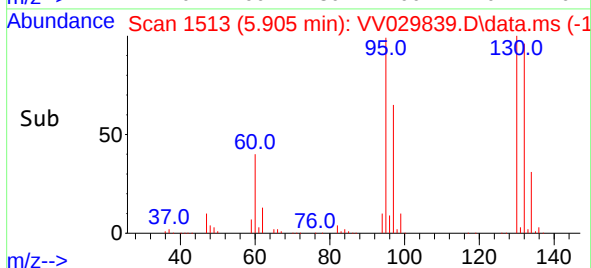
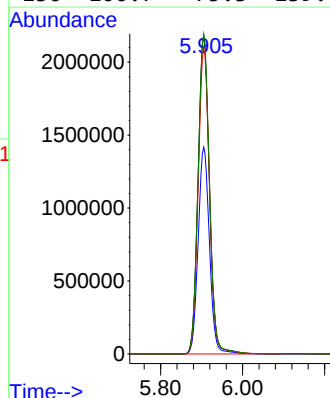
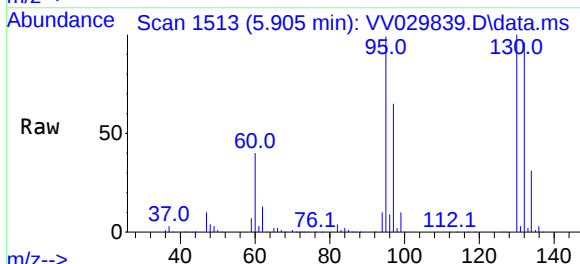
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
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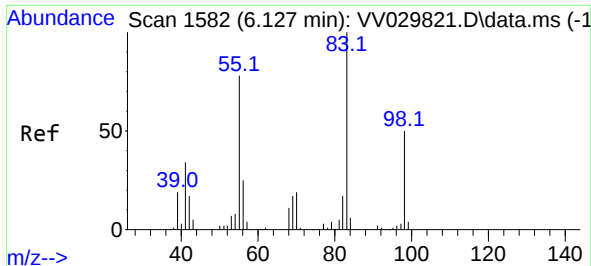
Tgt Ion: 96 Resp: 472347  
 Ion Ratio Lower Upper  
 96 100  
 61 115.8 80.0 148.6  
 68 0.0 0.0 0.0



#34  
 Trichloroethene  
 Concen: 257.593 ug/L  
 RT: 5.905 min Scan# 1513  
 Delta R.T. -0.000 min  
 Lab File: VV029839.D  
 Acq: 14 Jan 2023 03:53

Tgt Ion: 95 Resp: 4196485  
 Ion Ratio Lower Upper  
 95 100  
 97 65.1 44.9 83.3  
 132 96.5 71.8 133.4  
 130 100.7 75.3 139.8





#35

Methylcyclohexane

Concen: 0.765 ug/L

RT: 6.063 min Scan# 1562

Delta R.T. -0.058 min

Lab File: VV029839.D

Acq: 14 Jan 2023 03:53

Instrument :

MSVOA\_V

ClientSampleId :

COL52

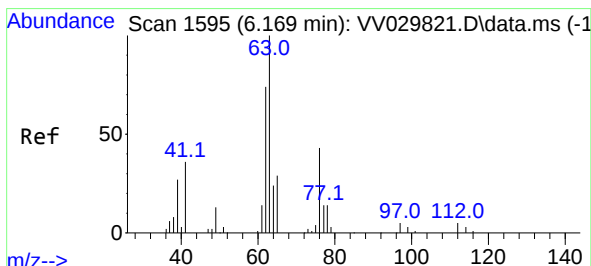
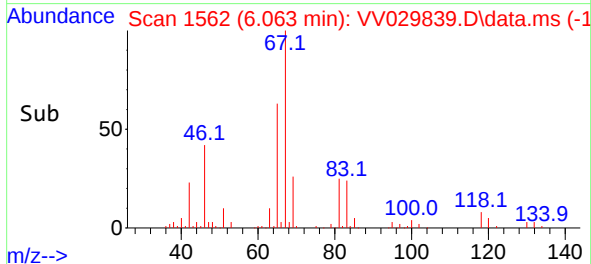
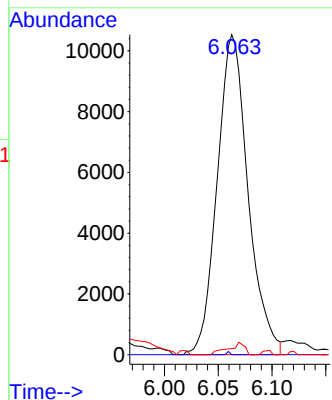
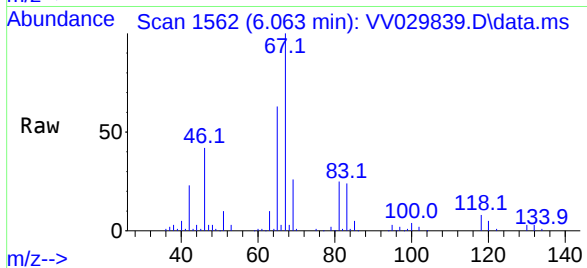
Tgt Ion: 83 Resp: 21035

Ion Ratio Lower Upper

83 100

55 0.1 57.3 85.9#

98 0.0 39.0 58.6#



#37

1,2-Dichloropropane

Concen: 0.610 ug/L

RT: 6.063 min Scan# 1562

Delta R.T. -0.100 min

Lab File: VV029839.D

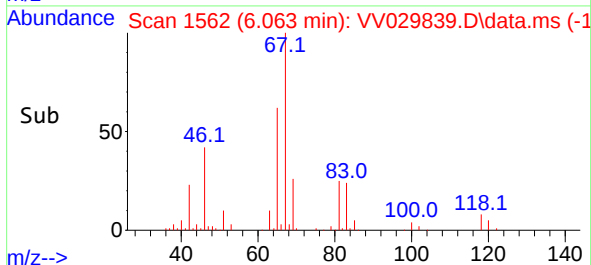
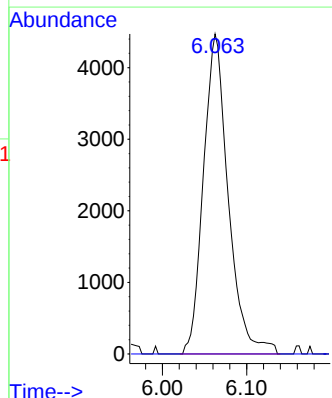
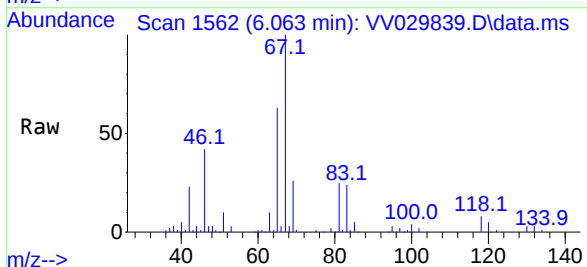
Acq: 14 Jan 2023 03:53

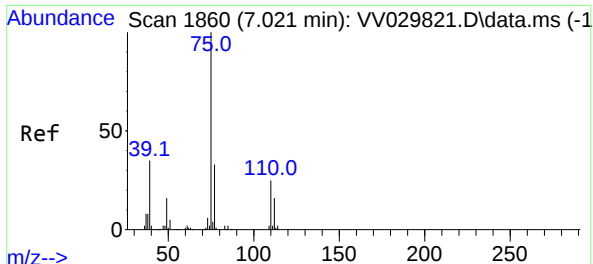
Tgt Ion: 63 Resp: 9179

Ion Ratio Lower Upper

63 100

112 3.1 3.9 5.9#

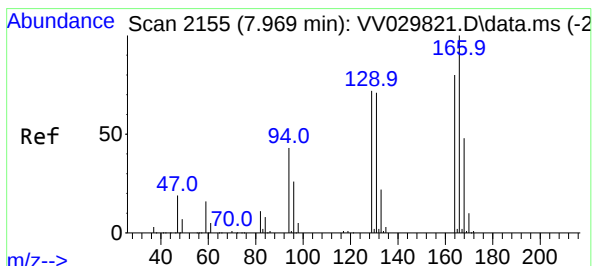
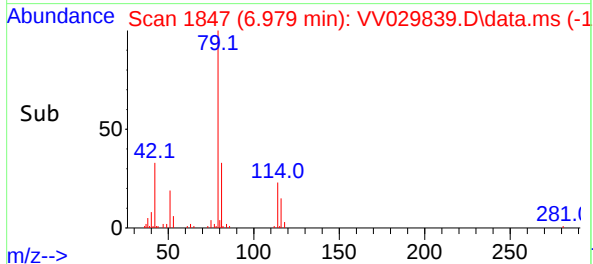
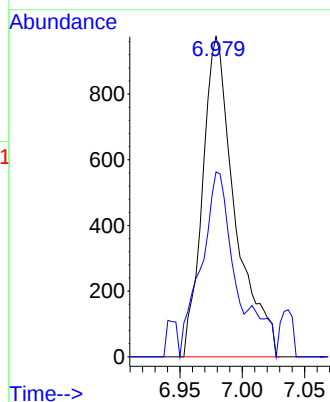
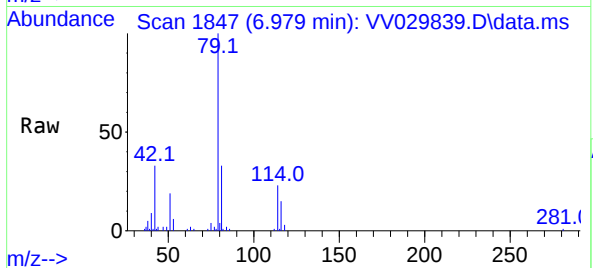




#39  
cis-1,3-Dichloropropene  
Concen: 0.088 ug/L  
RT: 6.979 min Scan# 11  
Delta R.T. -0.039 min  
Lab File: VV029839.D  
Acq: 14 Jan 2023 03:53

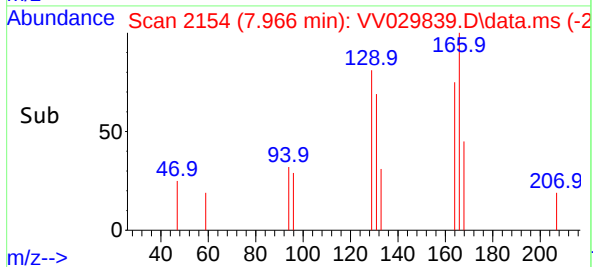
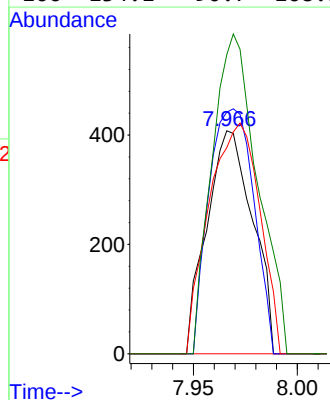
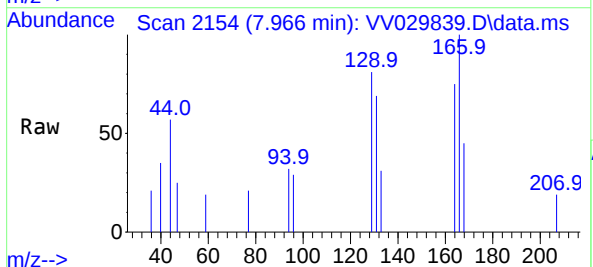
Instrument :  
MSVOA\_V  
ClientSampleId :  
COL52

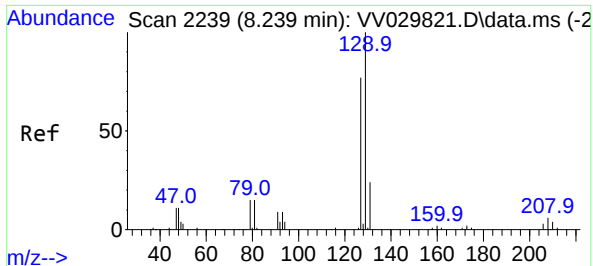
Tgt Ion: 75 Resp: 1767  
Ion Ratio Lower Upper  
75 100  
77 57.7 22.4 41.6#



#47  
Tetrachloroethene  
Concen: 0.046 ug/L  
RT: 7.966 min Scan# 2154  
Delta R.T. -0.000 min  
Lab File: VV029839.D  
Acq: 14 Jan 2023 03:53

Tgt Ion: 164 Resp: 627  
Ion Ratio Lower Upper  
164 100  
129 108.3 64.5 119.7  
131 92.4 62.9 116.7  
166 134.1 90.7 168.5





#49

Dibromochloromethane

Concen: 0.053 ug/L

RT: 7.969 min Scan# 21

Delta R.T. -0.267 min

Lab File: VV029839.D

Acq: 14 Jan 2023 03:53

Instrument :

MSVOA\_V

ClientSampleId :

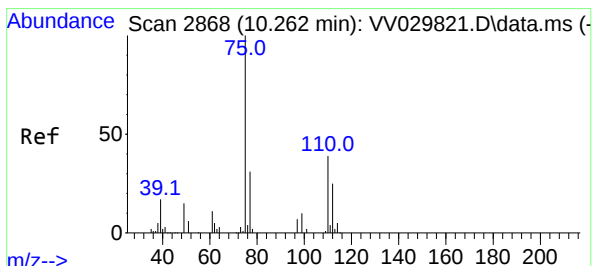
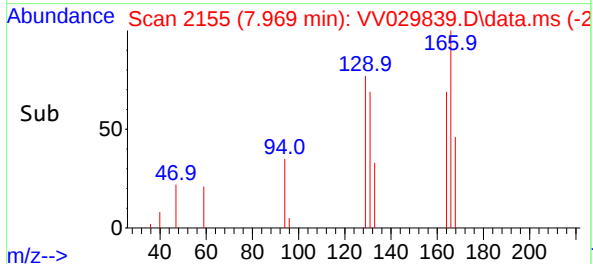
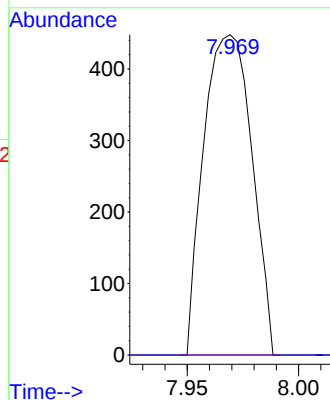
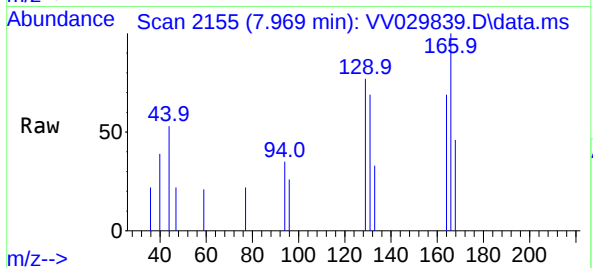
C0L52

Tgt Ion:129 Resp: 675

Ion Ratio Lower Upper

129 100

127 0.0 54.1 100.5#



#61

1,2,3-Trichloropropane

Concen: 1.481 ug/L

RT: 11.236 min Scan# 3171

Delta R.T. 0.974 min

Lab File: VV029839.D

Acq: 14 Jan 2023 03:53

Tgt Ion: 75 Resp: 11243

Ion Ratio Lower Upper

75 100

77 29.5 26.5 39.7

110 2.3 31.8 47.8#

