

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW022024\  
 Data File : VW034267.D  
 Acq On : 20 Feb 2024 14:05  
 Operator : SY/MD  
 Sample : P1503-01DL 2X  
 Misc : 25.0mL/MSVOA\_V/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 DCNF4DL

Quant Time: Feb 21 01:44:09 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR012524WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Wed Feb 21 01:41:15 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.535  | 114   | 74367    | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.786  | 117   | 68398    | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.185 | 152   | 33596    | 5.000    | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.281  | 65    | 23043    | 4.001    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 80.000%  |
| 7) Chloroethane-d5            | 1.535  | 69    | 20049    | 3.974    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 79.400%  |
| 11) 1,1-Dichloroethene-d2     | 2.060  | 65    | 11718    | 4.219    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 84.400%  |
| 20) 2-Butanone-d5             | 3.812  | 46    | 42670    | 44.113   | ug/L   | -0.03    |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 88.220%  |
| 24) Chloroform-d              | 4.249  | 84    | 47386    | 4.528    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 90.600%  |
| 26) 1,2-Dichloroethane-d4     | 4.947  | 65    | 24094    | 4.926    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 98.600%  |
| 32) Benzene-d6                | 4.960  | 84    | 90216    | 4.396    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 88.000%  |
| 36) 1,2-Dichloropropane-d6    | 5.992  | 67    | 24670    | 4.301    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 86.000%  |
| 41) Toluene-d8                | 7.243  | 98    | 82220    | 4.359    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 87.200%  |
| 43) trans-1,3-Dichloroprop... | 7.561  | 79    | 7862     | 3.630    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 72.600%  |
| 46) 2-Hexanone-d5             | 8.030  | 63    | 32159    | 41.591   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 83.180%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.152 | 84    | 15002    | 4.314    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 86.200%  |
| 66) 1,2-Dichlorobenzene-d4    | 11.561 | 152   | 28948    | 4.738    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 94.800%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 5) Vinyl chloride             | 1.285  | 62    | 17756    | 2.500    | ug/L   | 97       |
| 12) 1,1-Dichloroethene        | 2.069  | 96    | 51191    | 9.853    | ug/L   | 87       |
| 16) Methylene chloride        | 2.449  | 84    | 40312    | 8.087    | ug/L   | 92       |
| 18) trans-1,2-Dichloroethene  | 2.696  | 96    | 8705     | 1.645    | ug/L   | 93       |
| 22) cis-1,2-Dichloroethene    | 3.815  | 96    | 14707    | 2.450    | ug/L   | 89       |
| 27) 1,2-Dichloroethane        | 5.043  | 62    | 42000    | 7.463    | ug/L   | 98       |
| 29) 1,1,1-Trichloroethane     | 4.510  | 97    | 94219    | 10.260   | ug/L   | 99       |
| 31) Carbon tetrachloride      | 4.735  | 117   | 31439    | 3.913    | ug/L   | 98       |
| 33) Benzene                   | 5.008  | 78    | 144190   | 7.029    | ug/L   | 100      |
| 34) Trichloroethene           | 5.831  | 95    | 31673    | 5.335    | ug/L   | 98       |
| 37) 1,2-Dichloropropane       | 6.095  | 63    | 28498    | 5.735    | ug/L   | 99       |
| 42) Toluene                   | 7.317  | 91    | 69414    | 3.166    | ug/L   | 97       |
| 45) 1,1,2-Trichloroethane     | 7.770  | 97    | 25170    | 8.203    | ug/L   | 97       |
| 47) Tetrachloroethene         | 7.905  | 164   | 40888    | 8.476    | ug/L   | 99       |
| 51) Chlorobenzene             | 8.812  | 112   | 87577    | 6.317    | ug/L   | 99       |
| 52) Ethylbenzene              | 8.947  | 91    | 55866    | 2.214    | ug/L   | 97       |
| 53) m,p-Xylene                | 9.072  | 106   | 145664   | 15.273   | ug/L   | 98       |
| 54) o-Xylene                  | 9.477  | 106   | 63674    | 6.924    | ug/L   | 100      |
| 55) Styrene                   | 9.497  | 104   | 50725    | 3.445    | ug/L   | 96       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV022024\  
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Acq On : 20 Feb 2024 14:05  
Operator : SY/MD  
Sample : P1503-01DL 2X  
Misc : 25.0mL/MSVOA\_V/WATER  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
DCNF4DL

Quant Time: Feb 21 01:44:09 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR012524WMA.M  
Quant Title : TRACE VOA SFAM1.0  
QLast Update : Wed Feb 21 01:41:15 2024  
Response via : Initial Calibration

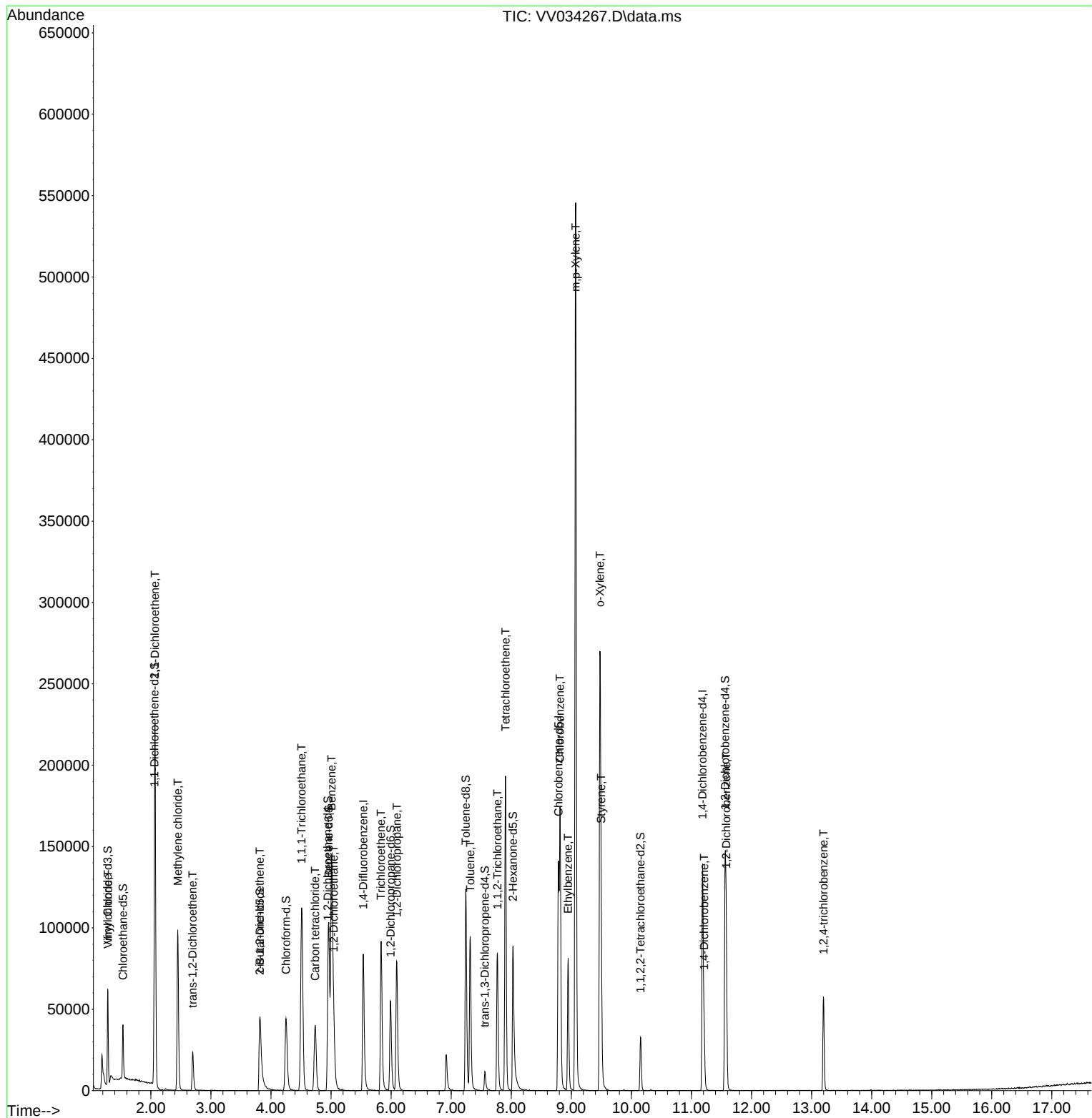
| Compound                   | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|--------|------|----------|-------|-------|----------|
| 65) 1,4-Dichlorobenzene    | 11.210 | 146  | 15123    | 1.409 | ug/L  | 99       |
| 67) 1,2-Dichlorobenzene    | 11.580 | 146  | 35756    | 3.841 | ug/L  | 95       |
| 70) 1,2,4-trichlorobenzene | 13.201 | 180  | 16704    | 2.551 | ug/L  | 99       |

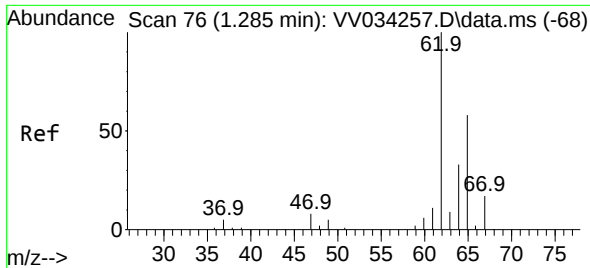
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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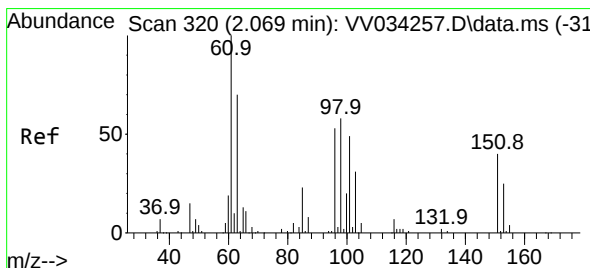
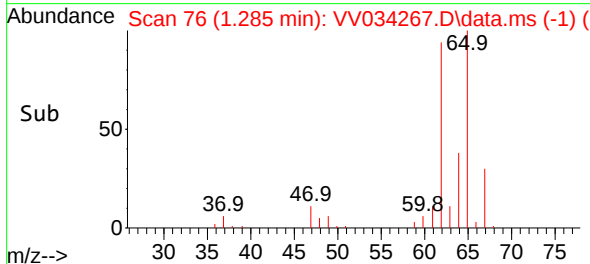
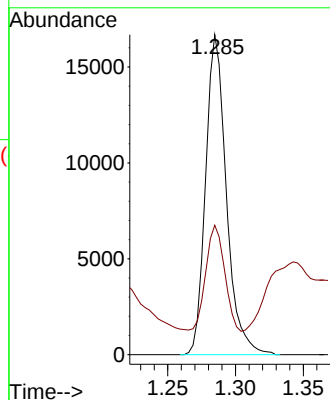
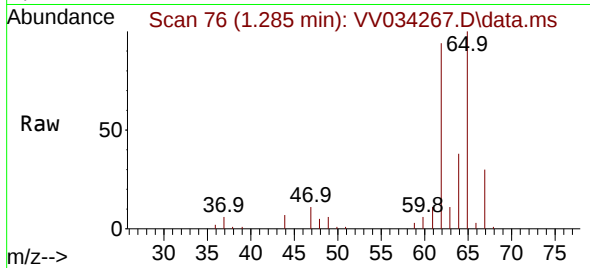




#5  
 Vinyl chloride  
 Concen: 2.500 ug/L  
 RT: 1.285 min Scan# 76  
 Delta R.T. -0.000 min  
 Lab File: VV034267.D  
 Acq: 20 Feb 2024 14:05

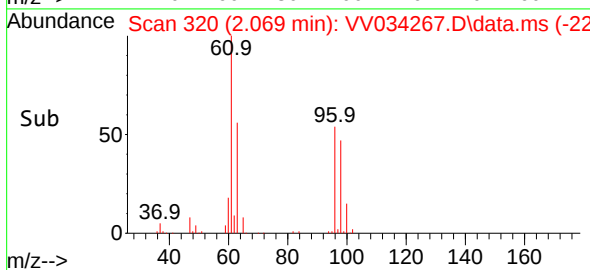
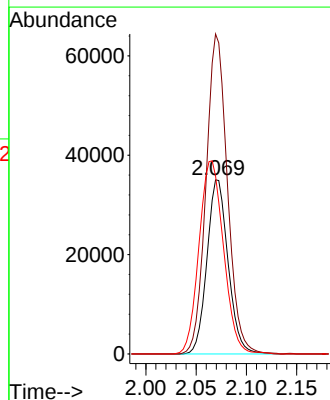
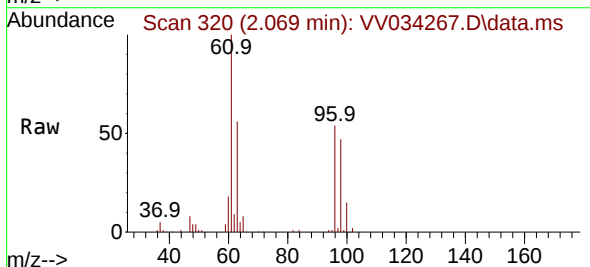
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 DCNF4DL

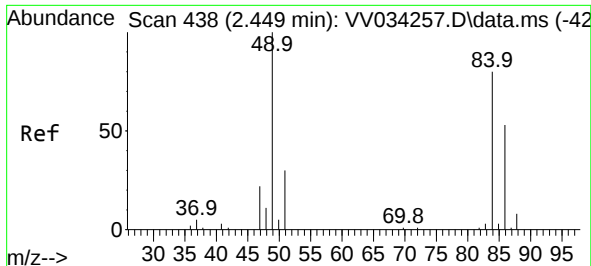
Tgt Ion: 62 Resp: 17756  
 Ion Ratio Lower Upper  
 62 100  
 64 40.4 27.2 50.4



#12  
 1,1-Dichloroethene  
 Concen: 9.853 ug/L  
 RT: 2.069 min Scan# 320  
 Delta R.T. -0.000 min  
 Lab File: VV034267.D  
 Acq: 20 Feb 2024 14:05

Tgt Ion: 96 Resp: 51191  
 Ion Ratio Lower Upper  
 96 100  
 61 183.8 128.8 239.2  
 63 102.2 97.9 181.9

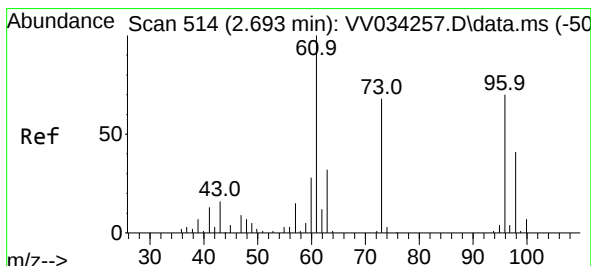
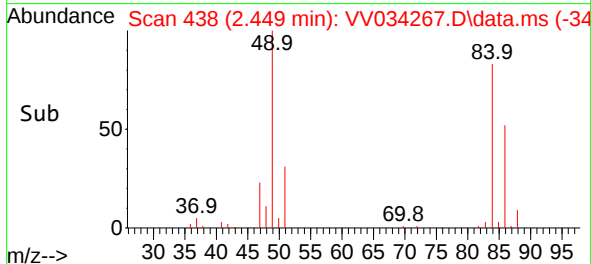
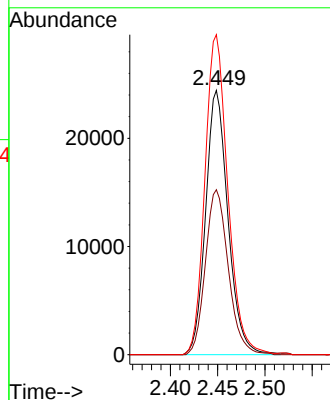
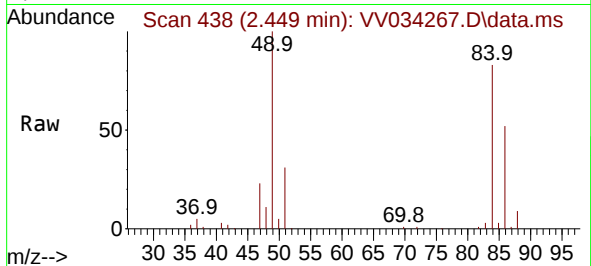




#16  
Methylene chloride  
Concen: 8.087 ug/L  
RT: 2.449 min Scan# 41  
Delta R.T. -0.000 min  
Lab File: VV034267.D  
Acq: 20 Feb 2024 14:05

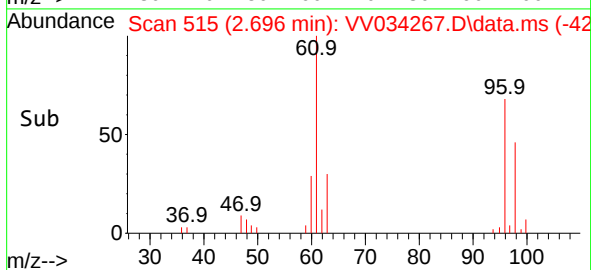
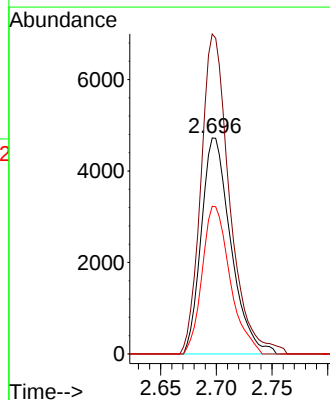
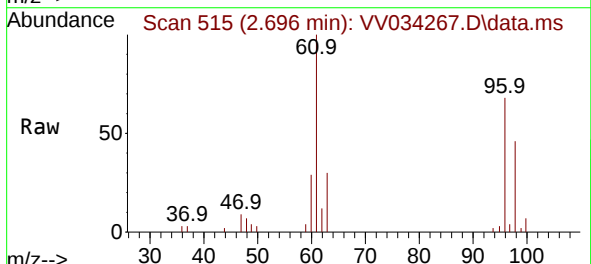
Instrument :  
MSVOA\_V  
ClientSampleId :  
DCNF4DL

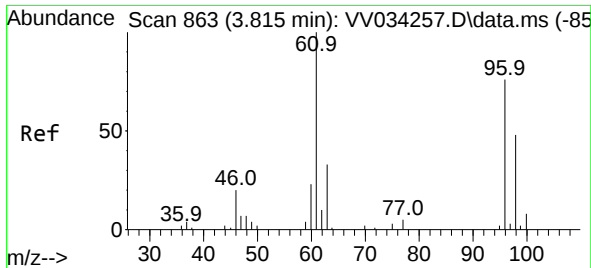
Tgt Ion: 84 Resp: 40312  
Ion Ratio Lower Upper  
84 100  
86 62.4 44.7 83.1  
49 121.1 93.7 173.9



#18  
trans-1,2-Dichloroethene  
Concen: 1.645 ug/L  
RT: 2.696 min Scan# 515  
Delta R.T. 0.003 min  
Lab File: VV034267.D  
Acq: 20 Feb 2024 14:05

Tgt Ion: 96 Resp: 8705  
Ion Ratio Lower Upper  
96 100  
61 148.1 97.6 181.4  
98 68.3 44.4 82.5

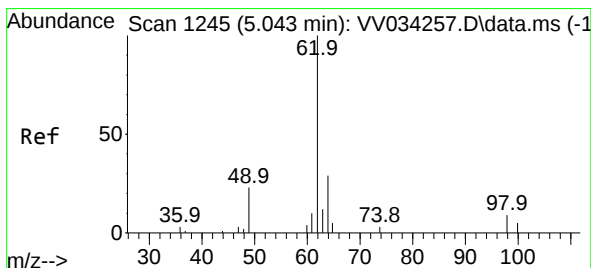
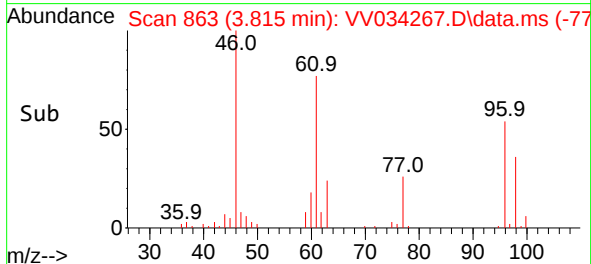
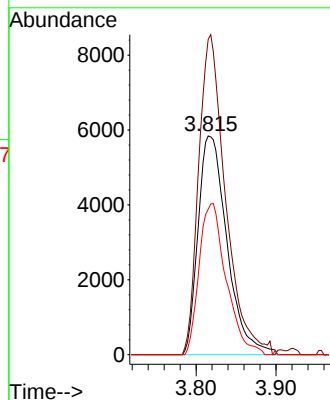
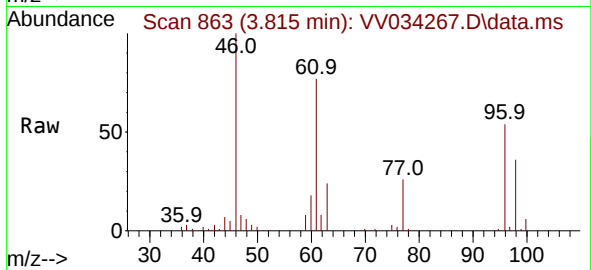




#22  
 cis-1,2-Dichloroethene  
 Concen: 2.450 ug/L  
 RT: 3.815 min Scan# 863  
 Delta R.T. -0.000 min  
 Lab File: VV034267.D  
 Acq: 20 Feb 2024 14:05

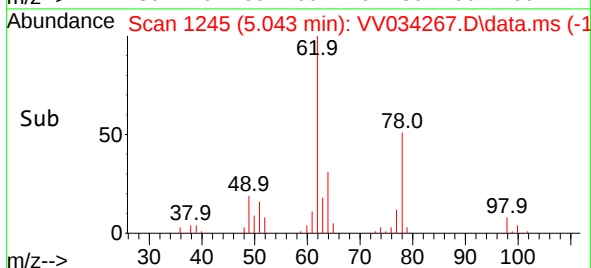
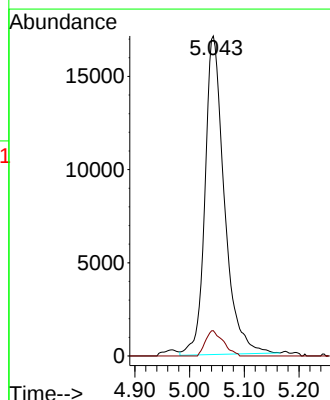
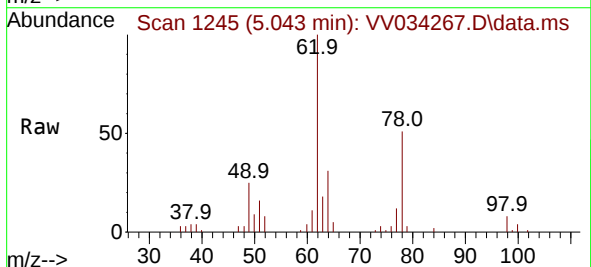
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 DCNF4DL

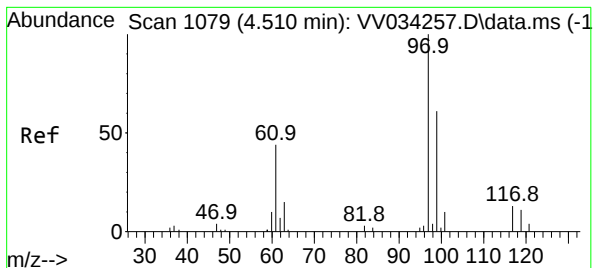
Tgt Ion: 96 Resp: 14707  
 Ion Ratio Lower Upper  
 96 100  
 61 144.2 90.3 167.7  
 98 66.6 43.2 80.2



#27  
 1,2-Dichloroethane  
 Concen: 7.463 ug/L  
 RT: 5.043 min Scan# 1245  
 Delta R.T. -0.000 min  
 Lab File: VV034267.D  
 Acq: 20 Feb 2024 14:05

Tgt Ion: 62 Resp: 42000  
 Ion Ratio Lower Upper  
 62 100  
 98 7.9 6.9 10.3





#29

1,1,1-Trichloroethane

Concen: 10.260 ug/L

RT: 4.510 min Scan# 1107

Delta R.T. -0.000 min

Lab File: VV034267.D

Acq: 20 Feb 2024 14:05

Instrument :

MSVOA\_V

ClientSampleId :

DCNF4DL

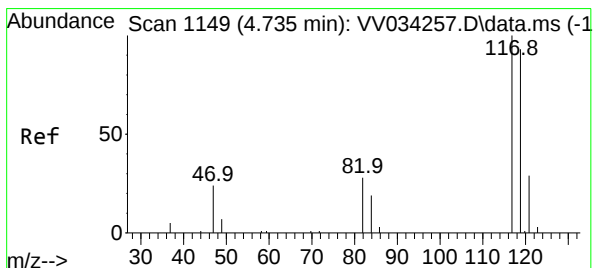
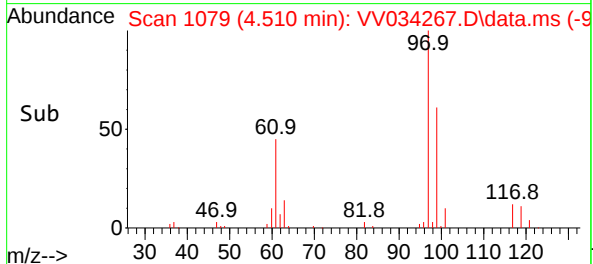
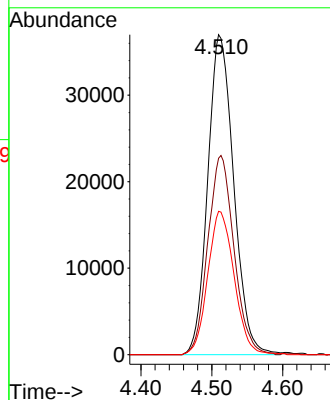
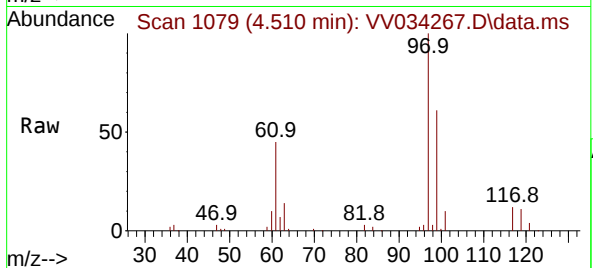
Tgt Ion: 97 Resp: 94219

Ion Ratio Lower Upper

97 100

99 62.7 50.6 75.8

61 45.7 36.8 55.2



#31

Carbon tetrachloride

Concen: 3.913 ug/L

RT: 4.735 min Scan# 1149

Delta R.T. -0.000 min

Lab File: VV034267.D

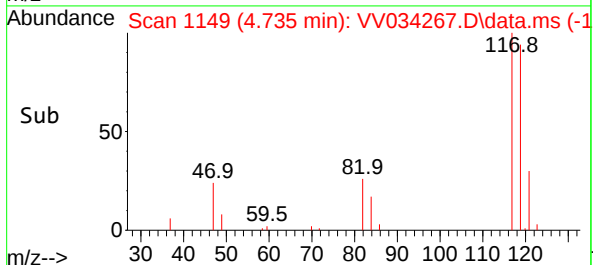
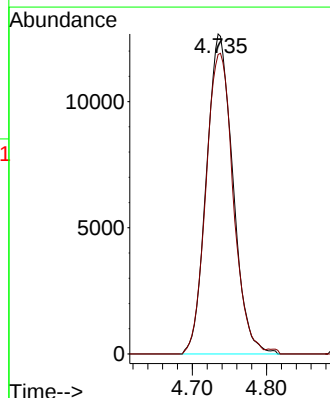
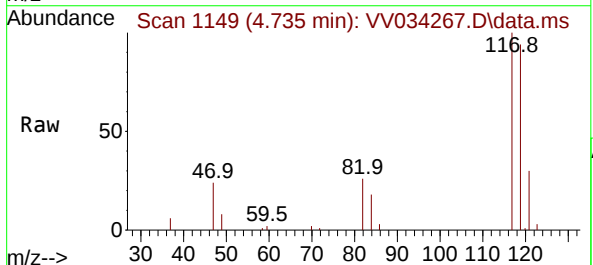
Acq: 20 Feb 2024 14:05

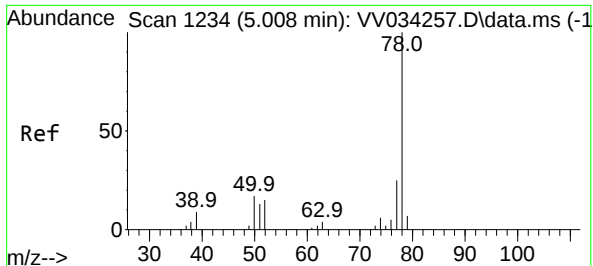
Tgt Ion: 117 Resp: 31439

Ion Ratio Lower Upper

117 100

119 96.6 76.1 114.1

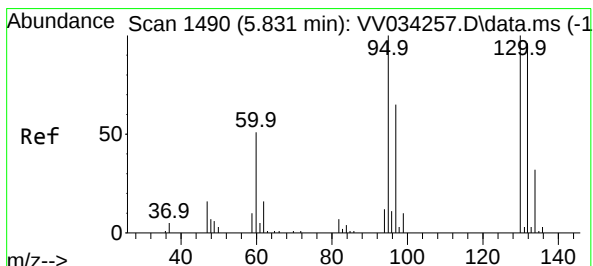
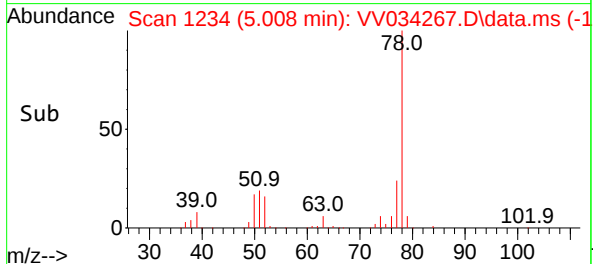
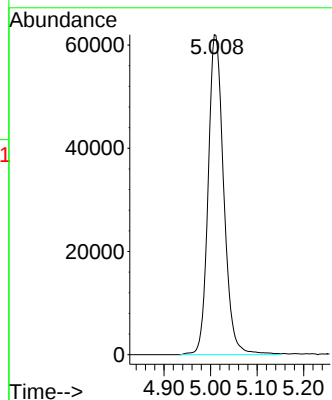
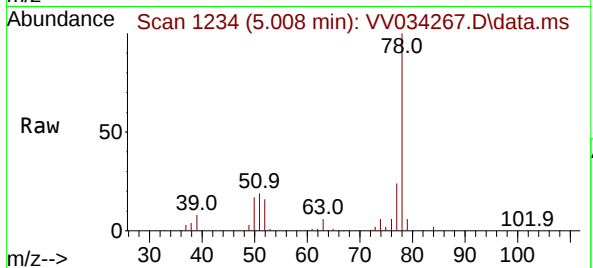




#33  
Benzene  
Concen: 7.029 ug/L  
RT: 5.008 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VV034267.D  
Acq: 20 Feb 2024 14:05

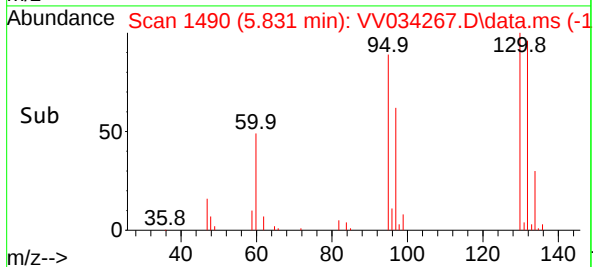
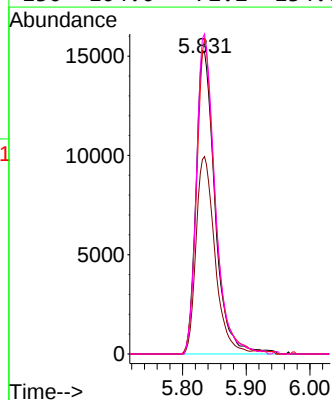
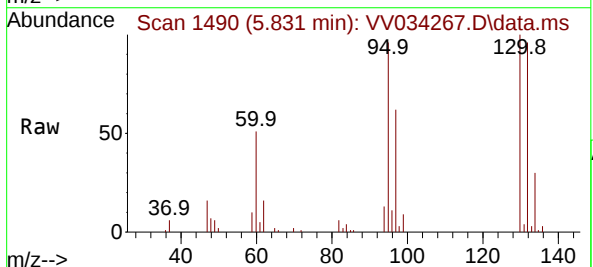
Instrument :  
MSVOA\_V  
ClientSampleId :  
DCNF4DL

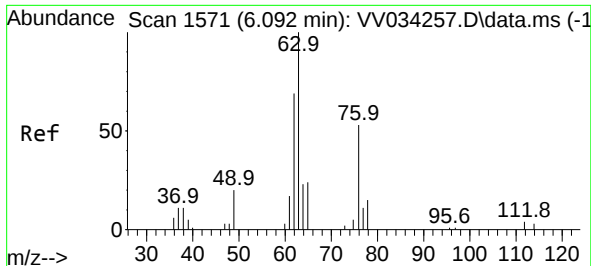
Tgt Ion: 78 Resp: 144190



#34  
Trichloroethene  
Concen: 5.335 ug/L  
RT: 5.831 min Scan# 1490  
Delta R.T. -0.000 min  
Lab File: VV034267.D  
Acq: 20 Feb 2024 14:05

Tgt Ion: 95 Resp: 31673  
Ion Ratio Lower Upper  
95 100  
97 64.2 45.1 83.7  
132 99.5 66.0 122.6  
130 104.0 72.2 134.0





#37

1,2-Dichloropropane

Concen: 5.735 ug/L

RT: 6.095 min Scan# 1

Delta R.T. 0.003 min

Lab File: VV034267.D

Acq: 20 Feb 2024 14:05

Instrument :

MSVOA\_V

ClientSampleId :

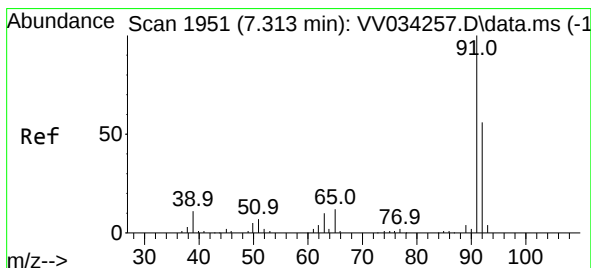
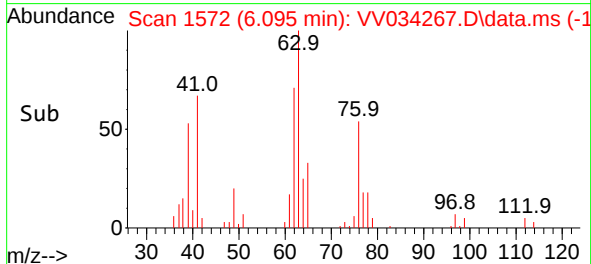
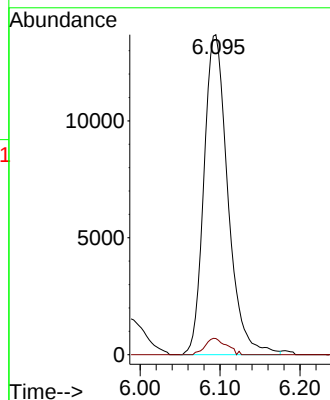
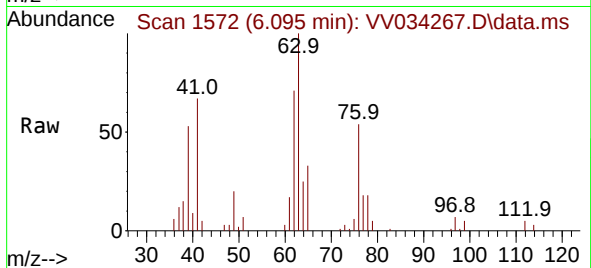
DCNF4DL

Tgt Ion: 63 Resp: 28498

Ion Ratio Lower Upper

63 100

112 4.6 3.4 5.0



#42

Toluene

Concen: 3.166 ug/L

RT: 7.317 min Scan# 1952

Delta R.T. 0.003 min

Lab File: VV034267.D

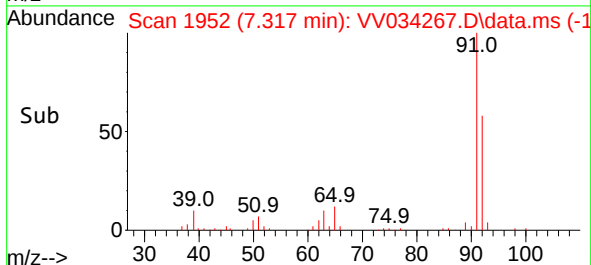
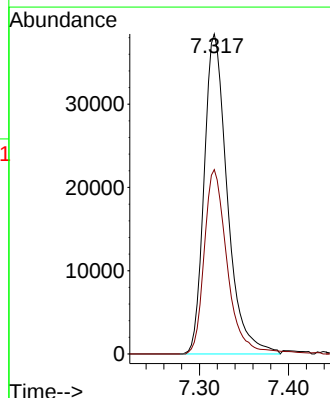
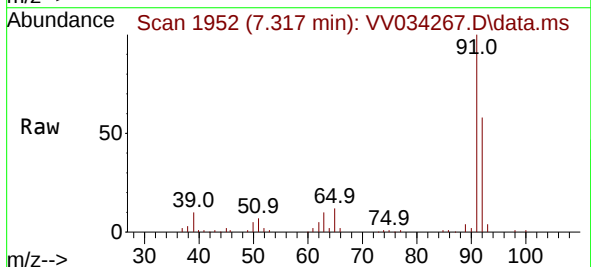
Acq: 20 Feb 2024 14:05

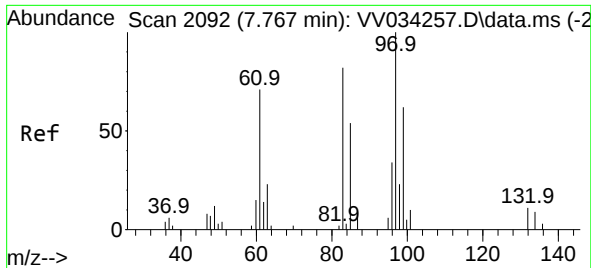
Tgt Ion: 91 Resp: 69414

Ion Ratio Lower Upper

91 100

92 57.6 42.1 78.3



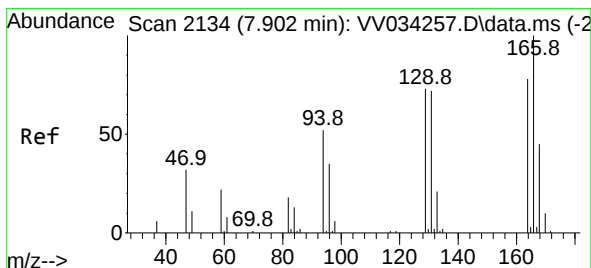
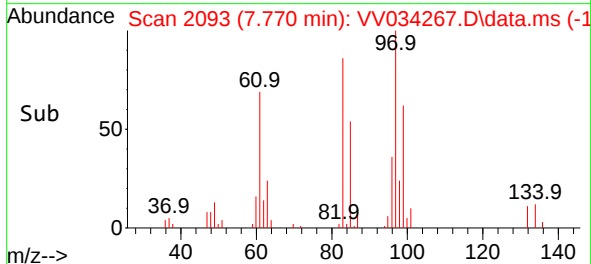
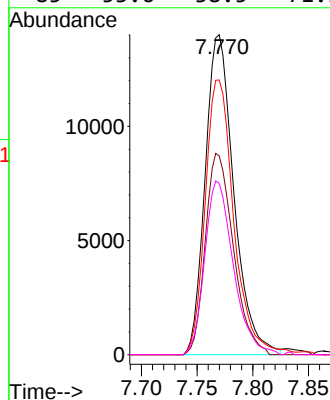
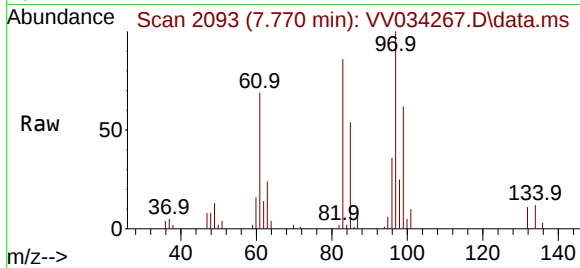


#45  
1,1,2-Trichloroethane  
Concen: 8.203 ug/L  
RT: 7.770 min Scan# 2092  
Delta R.T. 0.003 min  
Lab File: VV034267.D  
Acq: 20 Feb 2024 14:05

Instrument :  
MSVOA\_V  
ClientSampleId :  
DCNF4DL

Tgt Ion: 97 Resp: 25170

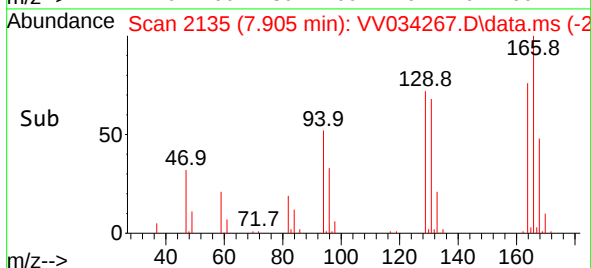
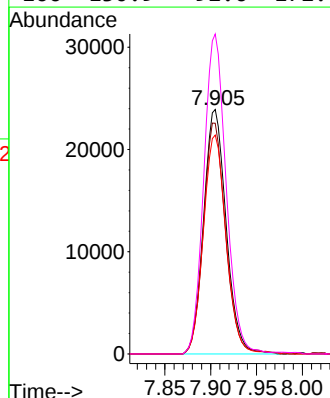
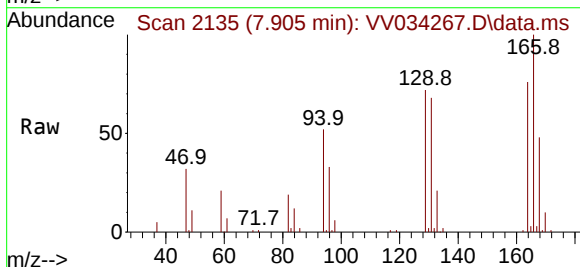
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 99  | 62.1  | 45.6  | 84.6  |
| 83  | 85.8  | 62.3  | 115.7 |
| 85  | 53.6  | 38.5  | 71.5  |

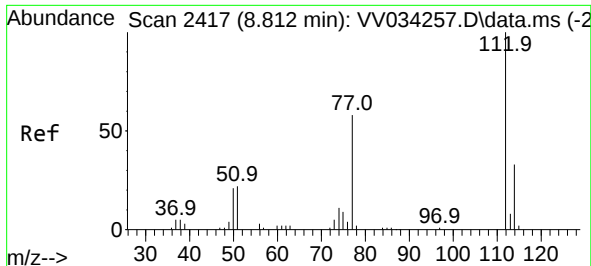


#47  
Tetrachloroethene  
Concen: 8.476 ug/L  
RT: 7.905 min Scan# 2135  
Delta R.T. 0.003 min  
Lab File: VV034267.D  
Acq: 20 Feb 2024 14:05

Tgt Ion: 164 Resp: 40888

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 129 | 94.4  | 67.8  | 125.8 |
| 131 | 89.6  | 63.0  | 117.0 |
| 166 | 130.9 | 92.6  | 172.0 |

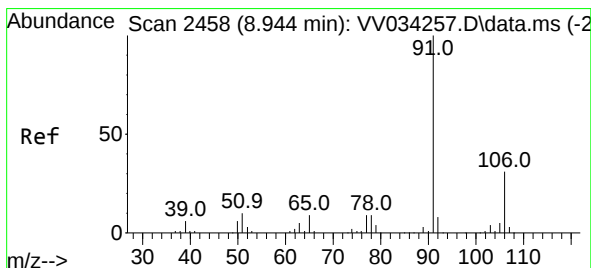
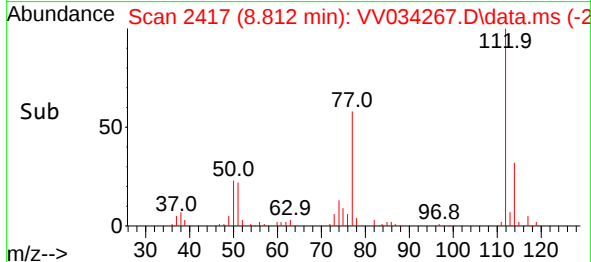
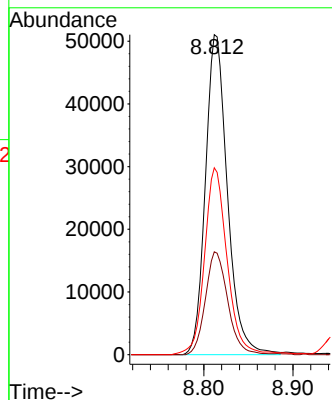
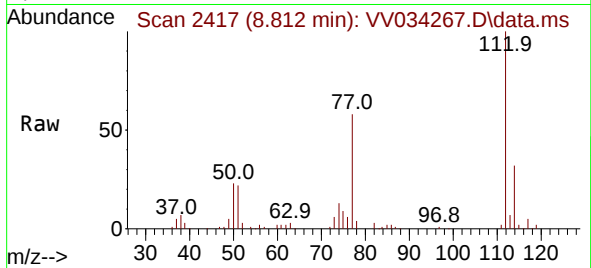




#51  
Chlorobenzene  
Concen: 6.317 ug/L  
RT: 8.812 min Scan# 2417  
Delta R.T. -0.000 min  
Lab File: VV034267.D  
Acq: 20 Feb 2024 14:05

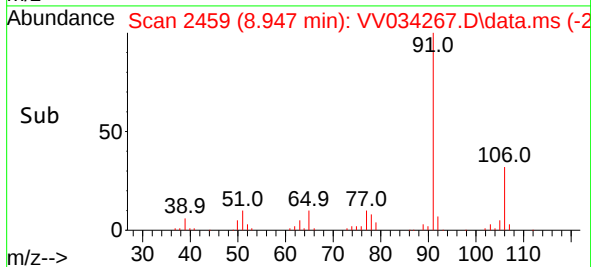
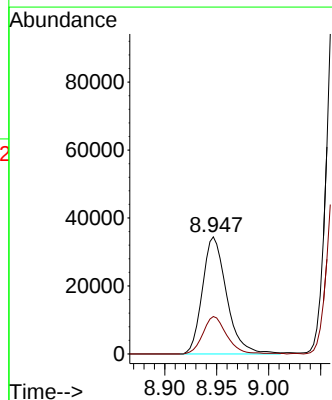
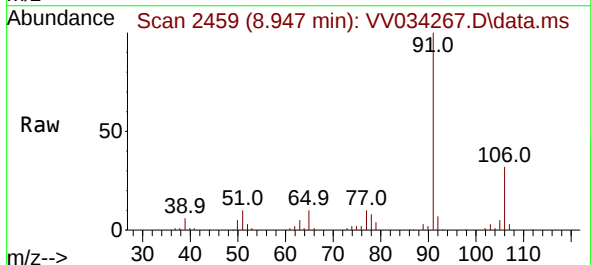
Instrument :  
MSVOA\_V  
ClientSampleId :  
DCNF4DL

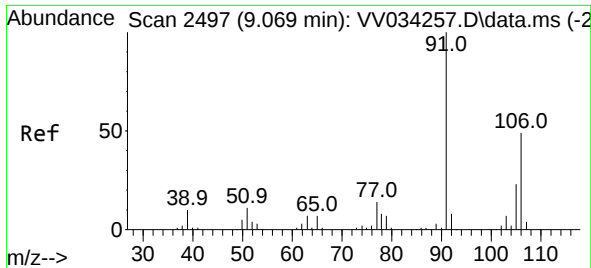
Tgt Ion:112 Resp: 87577  
Ion Ratio Lower Upper  
112 100  
114 32.1 22.5 41.7  
77 58.4 48.1 72.1



#52  
Ethylbenzene  
Concen: 2.214 ug/L  
RT: 8.947 min Scan# 2459  
Delta R.T. 0.003 min  
Lab File: VV034267.D  
Acq: 20 Feb 2024 14:05

Tgt Ion: 91 Resp: 55866  
Ion Ratio Lower Upper  
91 100  
106 32.0 21.4 39.8

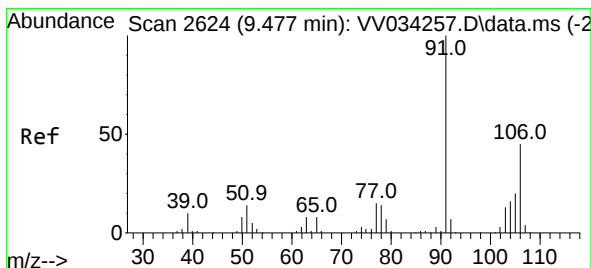
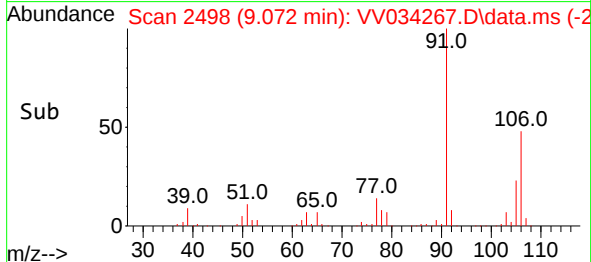
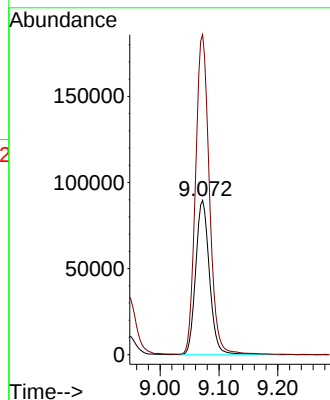
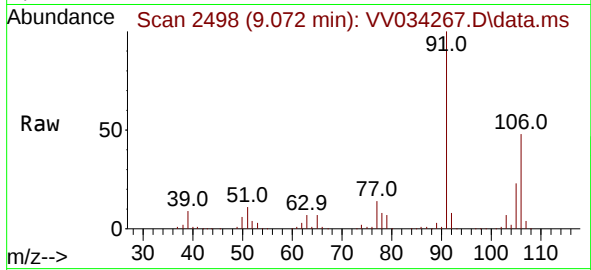




#53  
m,p-Xylene  
Concen: 15.273 ug/L  
RT: 9.072 min Scan# 2497  
Delta R.T. 0.003 min  
Lab File: VV034267.D  
Acq: 20 Feb 2024 14:05

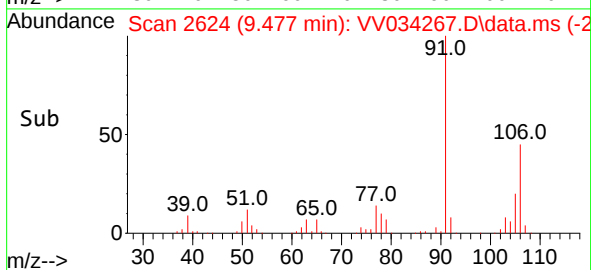
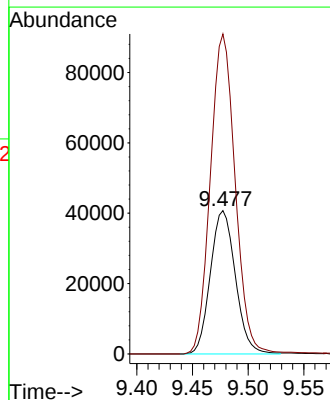
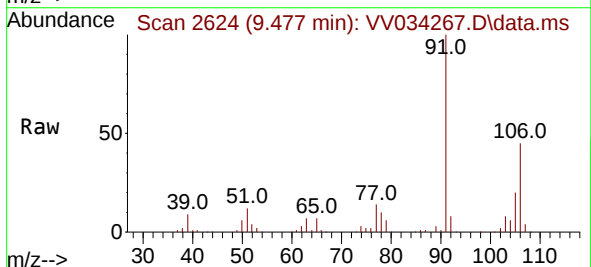
Instrument :  
MSVOA\_V  
ClientSampleId :  
DCNF4DL

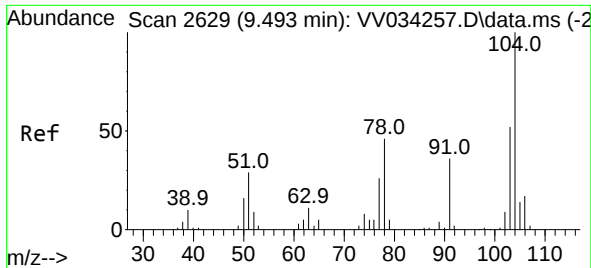
Tgt Ion:106 Resp: 145664  
Ion Ratio Lower Upper  
106 100  
91 207.5 147.5 273.9



#54  
o-Xylene  
Concen: 6.924 ug/L  
RT: 9.477 min Scan# 2624  
Delta R.T. -0.000 min  
Lab File: VV034267.D  
Acq: 20 Feb 2024 14:05

Tgt Ion:106 Resp: 63674  
Ion Ratio Lower Upper  
106 100  
91 223.2 156.2 290.0

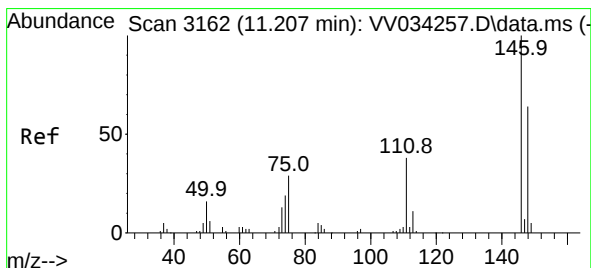
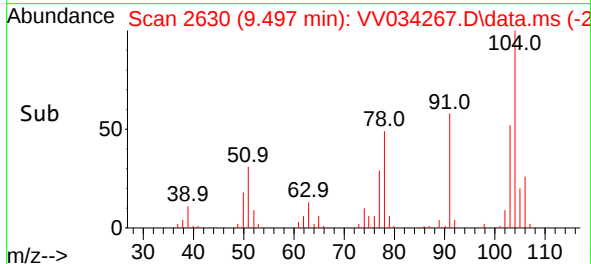
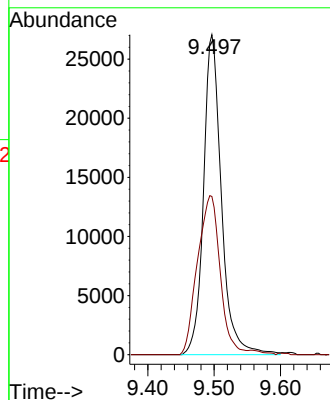
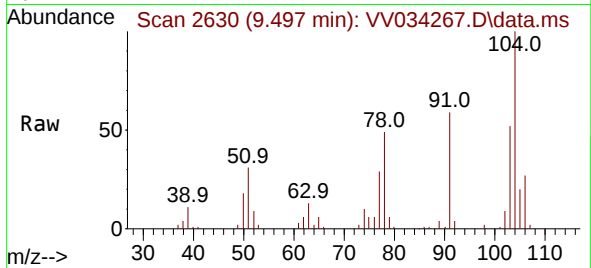




#55  
Styrene  
Concen: 3.445 ug/L  
RT: 9.497 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VV034267.D  
Acq: 20 Feb 2024 14:05

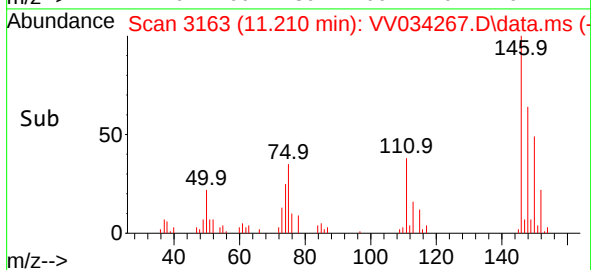
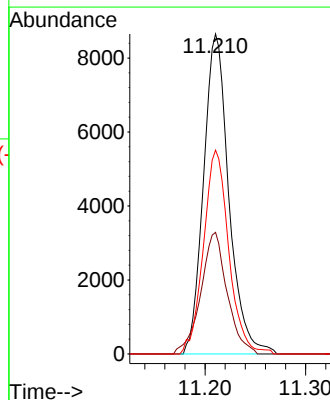
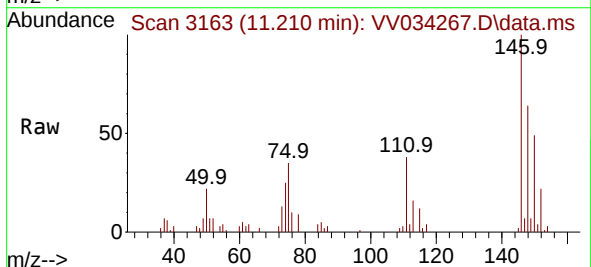
Instrument :  
MSVOA\_V  
ClientSampleId :  
DCNF4DL

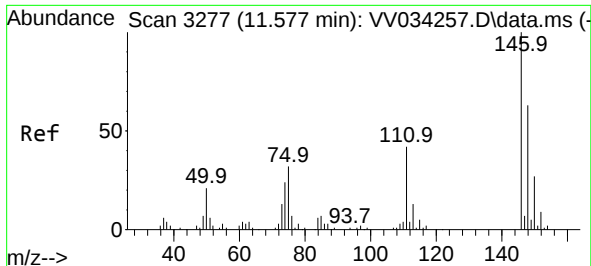
Tgt Ion:104 Resp: 50725  
Ion Ratio Lower Upper  
104 100  
78 49.5 32.9 61.1



#65  
1,4-Dichlorobenzene  
Concen: 1.409 ug/L  
RT: 11.210 min Scan# 3163  
Delta R.T. 0.003 min  
Lab File: VV034267.D  
Acq: 20 Feb 2024 14:05

Tgt Ion:146 Resp: 15123  
Ion Ratio Lower Upper  
146 100  
111 38.0 27.6 51.4  
148 63.7 44.8 83.2





#67

1,2-Dichlorobenzene

Concen: 3.841 ug/L

RT: 11.580 min Scan# 31

Delta R.T. 0.003 min

Lab File: VV034267.D

Acq: 20 Feb 2024 14:05

Instrument :

MSVOA\_V

ClientSampleId :

DCNF4DL

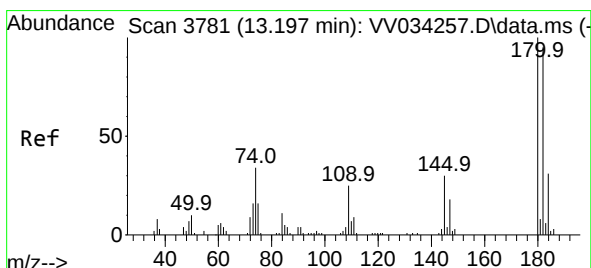
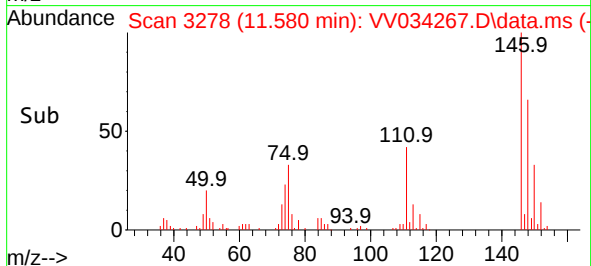
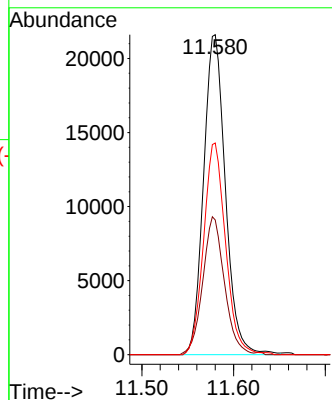
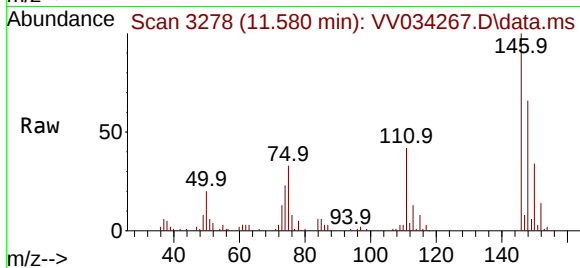
Tgt Ion:146 Resp: 35756

Ion Ratio Lower Upper

146 100

111 42.1 31.2 46.8

148 66.2 49.8 74.8



#70

1,2,4-trichlorobenzene

Concen: 2.551 ug/L

RT: 13.201 min Scan# 3782

Delta R.T. 0.003 min

Lab File: VV034267.D

Acq: 20 Feb 2024 14:05

Tgt Ion:180 Resp: 16704

Ion Ratio Lower Upper

180 100

182 97.3 76.8 115.2

145 31.5 24.8 37.2

