

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD053024\  
 Data File : VD079086.D  
 Acq On : 30 May 2024 10:42  
 Operator : RP/MD  
 Sample : P2640-18  
 Misc : 5.00G/10ml/MSVOA\_D/SOIL/A  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: May 31 01:53:10 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\SFAMDLM052924SMA.M  
 Quant Title : SFAM01.0  
 QLast Update : Fri May 31 01:52:18 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 8.781  | 114   | 186152   | 25.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 11.581 | 117   | 173906   | 25.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 13.516 | 152   | 68695    | 25.000   | ug/L   | 0.00     |
|                               |        |       |          |          |        |          |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 2.275  | 65    | 128831   | 22.490   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 89.960%  |
| 7) Chloroethane-d5            | 2.805  | 69    | 131658   | 23.769   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 95.080%  |
| 11) 1,1-Dichloroethene-d2     | 3.917  | 65    | 23879    | 23.481   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 45 - 110 | Recovery | =      | 93.920%  |
| 21) 2-Butanone-d5             | 6.981  | 46    | 12227    | 27.906   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 55.820%  |
| 24) Chloroform-d              | 7.569  | 84    | 110256   | 21.183   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 40 - 150 | Recovery | =      | 84.720%  |
| 26) 1,2-Dichloroethane-d4     | 8.228  | 65    | 46687    | 19.444   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 70 - 130 | Recovery | =      | 77.760%  |
| 32) Benzene-d6                | 8.199  | 84    | 230581   | 23.918   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 20 - 135 | Recovery | =      | 95.680%  |
| 36) 1,2-Dichloropropane-d6    | 9.210  | 67    | 61809    | 22.257   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 70 - 120 | Recovery | =      | 89.040%  |
| 41) Toluene-d8                | 10.269 | 98    | 210270   | 23.294   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 130 | Recovery | =      | 93.160%  |
| 43) trans-1,3-Dichloroprop... | 10.528 | 79    | 24318    | 20.834   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 135 | Recovery | =      | 83.320%  |
| 47) 2-Hexanone-d5             | 10.875 | 63    | 11016    | 30.684   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 61.360%  |
| 56) 1,1,2,2-Tetrachloroeth... | 12.651 | 84    | 41947    | 17.053   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 45 - 120 | Recovery | =      | 68.200%  |
| 66) 1,2-Dichlorobenzene-d4    | 13.816 | 152   | 55256    | 23.307   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 75 - 120 | Recovery | =      | 93.240%  |
|                               |        |       |          |          |        |          |
| Target Compounds              |        |       |          |          |        | Qvalue   |
| 5) Vinyl chloride             | 2.287  | 62    | 1784     | 0.275    | ug/L # | 26       |
| 6) Bromomethane               | 2.699  | 94    | 1291     | 0.258    | ug/L   | 92       |
| 25) Chloroform                | 7.581  | 83    | 2580     | 0.507    | ug/L   | 90       |
| 31) Carbon tetrachloride      | 7.987  | 117   | 534      | 0.140    | ug/L # | 15       |
| 39) cis-1,3-Dichloropropene   | 9.975  | 75    | 1019     | 0.257    | ug/L   | 94       |
| 42) Toluene                   | 10.334 | 91    | 2036     | 0.177    | ug/L   | 100      |
| 46) Tetrachloroethene         | 10.822 | 164   | 554      | 0.236    | ug/L # | 38       |
| 51) Chlorobenzene             | 11.604 | 112   | 1381     | 0.180    | ug/L # | 77       |
| 52) Ethylbenzene              | 11.681 | 91    | 2097     | 0.175    | ug/L   | 93       |
| 53) m,p-Xylene                | 11.787 | 106   | 737      | 0.157    | ug/L # | 19       |
| 54) o-Xylene                  | 12.110 | 106   | 541      | 0.119    | ug/L # | 52       |
| 61) 1,2,3-Trichloropropane    | 13.516 | 75    | 8023     | 6.615    | ug/L # | 62       |
| 62) 1,3,5-Trimethylbenzene    | 13.216 | 105   | 1252     | 0.202    | ug/L   | 96       |
| 63) 1,2,4-Trimethylbenzene    | 13.216 | 105   | 1252     | 0.188    | ug/L   | 91       |
| 64) 1,3-Dichlorobenzene       | 13.451 | 146   | 748      | 0.171    | ug/L   | 83       |
| 65) 1,4-Dichlorobenzene       | 13.528 | 146   | 1055     | 0.228    | ug/L # | 61       |
| 67) 1,2-Dichlorobenzene       | 13.828 | 146   | 1128     | 0.280    | ug/L # | 75       |
| 69) 1,3,5-Trichlorobenzene    | 14.587 | 180   | 811      | 0.295    | ug/L # | 70       |
| 70) 1,2,4-trichlorobenzene    | 15.092 | 180   | 581      | 0.254    | ug/L # | 81       |

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Data File : VD079086.D  
Acq On : 30 May 2024 10:42  
Operator : RP/MD  
Sample : P2640-18  
Misc : 5.00G/10ml/MSVOA\_D/SOIL/A  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

Quant Time: May 31 01:53:10 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\SFAMDLM052924SMA.M  
Quant Title : SFAM01.0  
QLast Update : Fri May 31 01:52:18 2024  
Response via : Initial Calibration

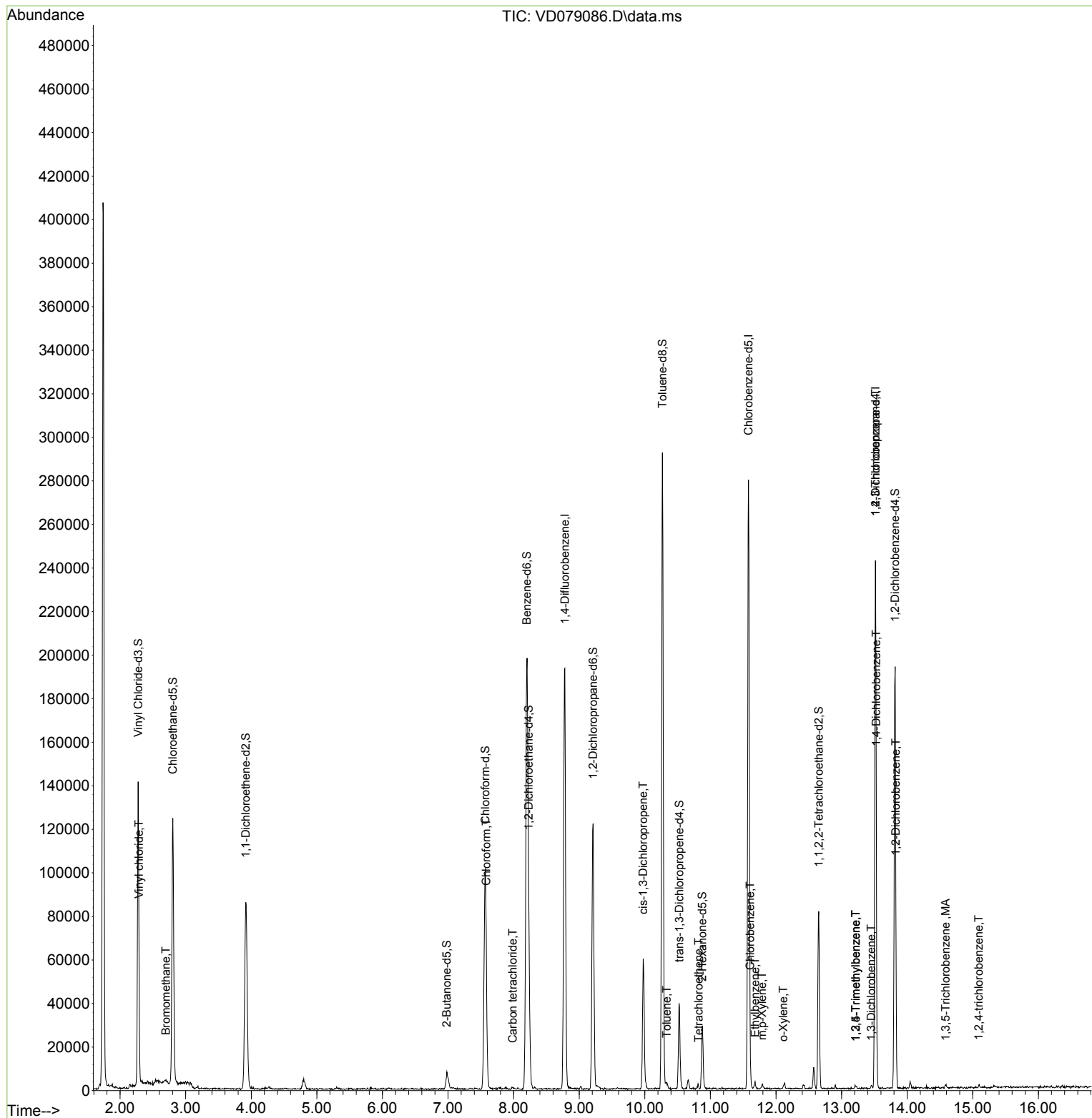
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
| -----    |      |      |          |      |       |          |
| -----    |      |      |          |      |       |          |

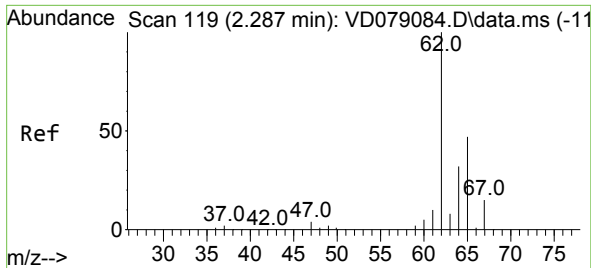
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD053024\  
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MSVOA\_D  
ClientSampleId :

Quant Time: May 31 01:53:10 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\SFAMDLM052924SMA.M  
Quant Title : SFAM01.0  
QLast Update : Fri May 31 01:52:18 2024  
Response via : Initial Calibration

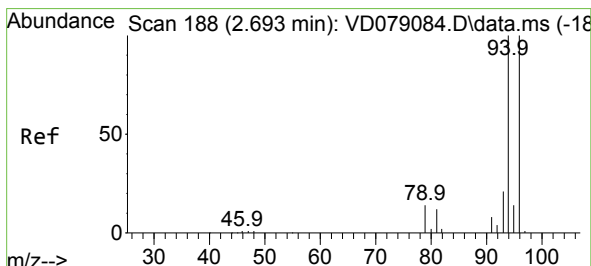
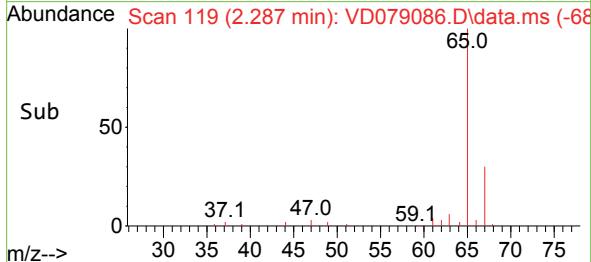
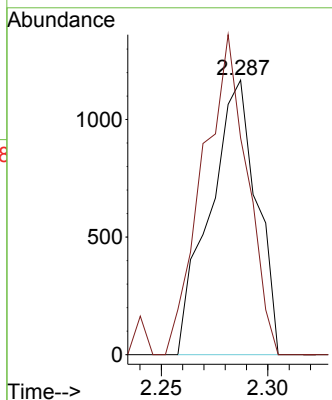
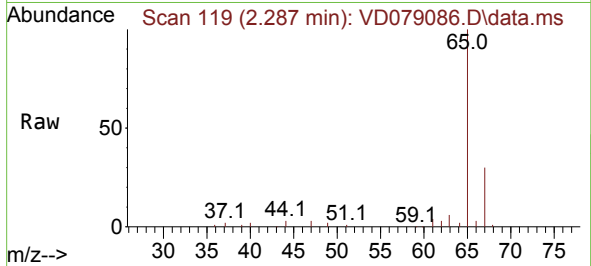




#5  
 Vinyl chloride  
 Concen: 0.275 ug/L  
 RT: 2.287 min Scan# 119  
 Delta R.T. 0.000 min  
 Lab File: VD079086.D  
 Acq: 30 May 2024 10:42

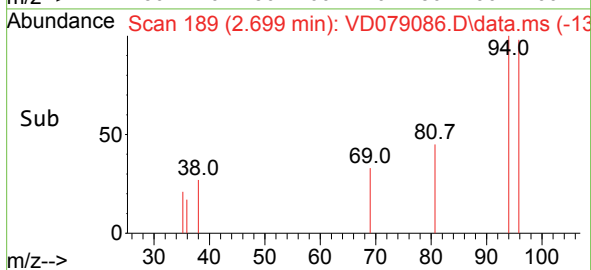
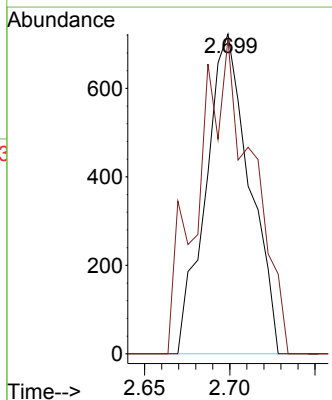
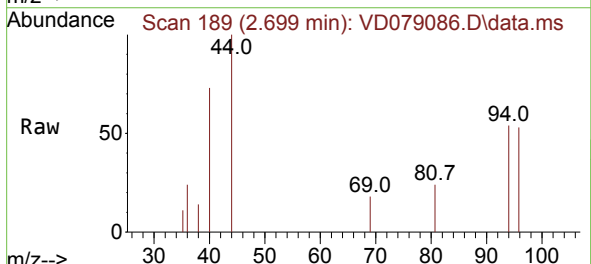
Instrument :  
 MSVOA\_D  
 ClientSampleId :

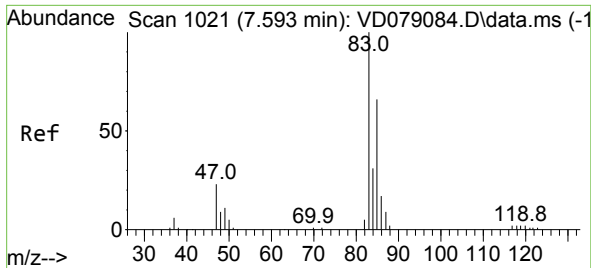
Tgt Ion: 62 Resp: 1784  
 Ion Ratio Lower Upper  
 62 100  
 64 78.9 24.8 46.1#



#6  
 Bromomethane  
 Concen: 0.258 ug/L  
 RT: 2.699 min Scan# 189  
 Delta R.T. 0.006 min  
 Lab File: VD079086.D  
 Acq: 30 May 2024 10:42

Tgt Ion: 94 Resp: 1291  
 Ion Ratio Lower Upper  
 94 100  
 96 98.5 63.6 118.2





#25

Chloroform

Concen: 0.507 ug/L

RT: 7.581 min Scan# 1019

Delta R.T. -0.012 min

Lab File: VD079086.D

Acq: 30 May 2024 10:42

Instrument :

MSVOA\_D

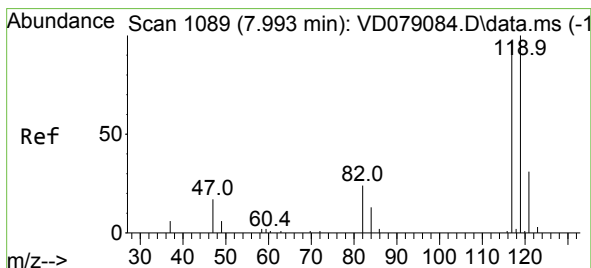
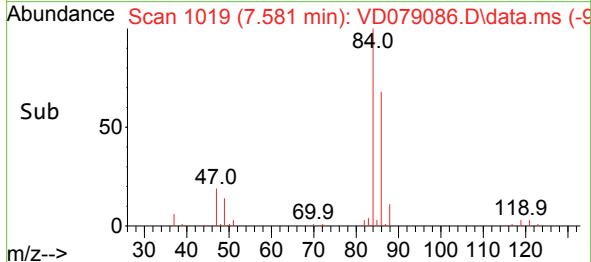
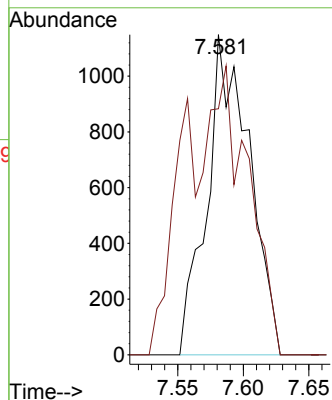
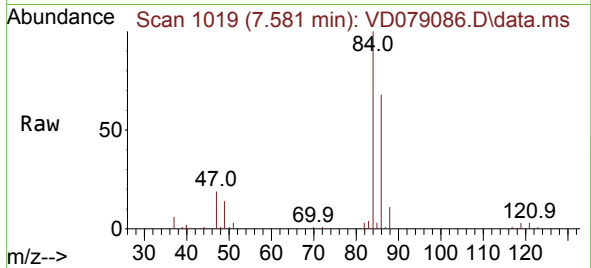
ClientSampleId :

Tgt Ion: 83 Resp: 2580

Ion Ratio Lower Upper

83 100

85 76.8 47.9 89.1



#31

Carbon tetrachloride

Concen: 0.140 ug/L

RT: 7.987 min Scan# 1088

Delta R.T. -0.006 min

Lab File: VD079086.D

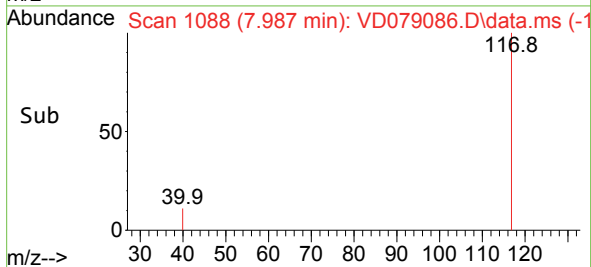
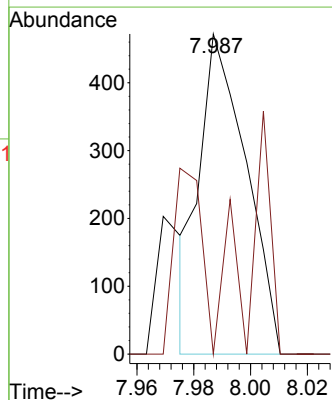
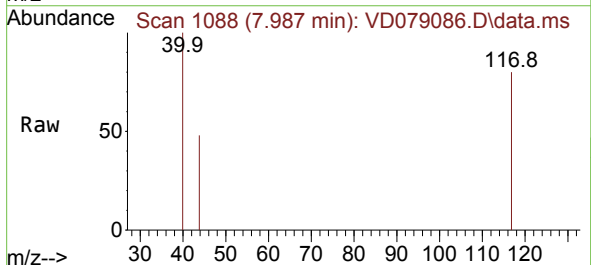
Acq: 30 May 2024 10:42

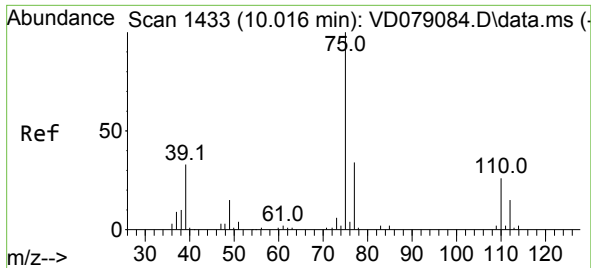
Tgt Ion: 117 Resp: 534

Ion Ratio Lower Upper

117 100

119 15.0 79.6 119.4#

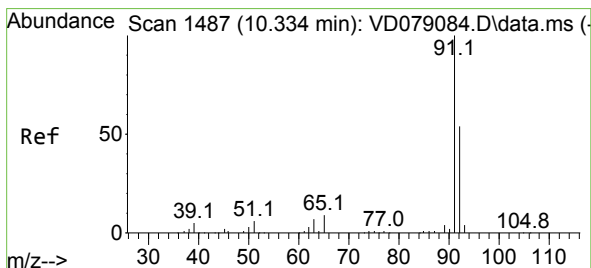
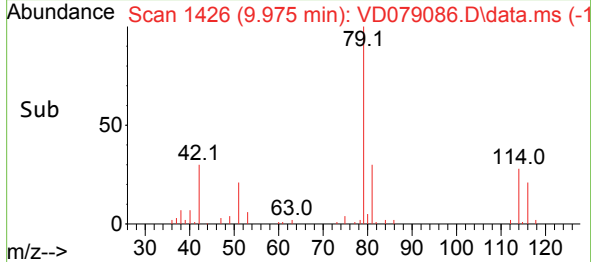
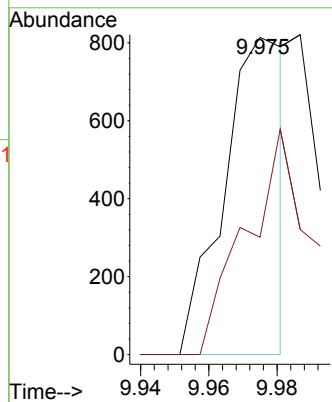
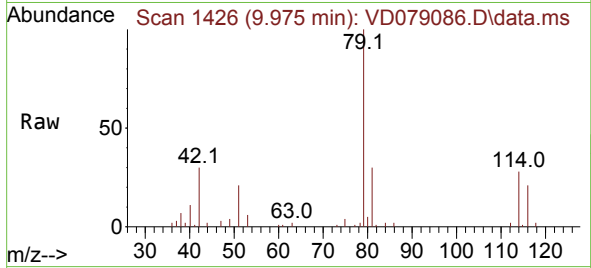




#39  
 cis-1,3-Dichloropropene  
 Concen: 0.257 ug/L  
 RT: 9.975 min Scan# 1433  
 Delta R.T. -0.041 min  
 Lab File: VD079086.D  
 Acq: 30 May 2024 10:42

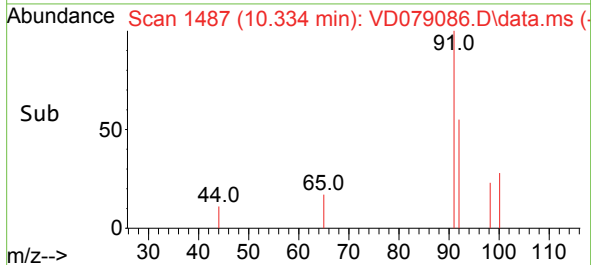
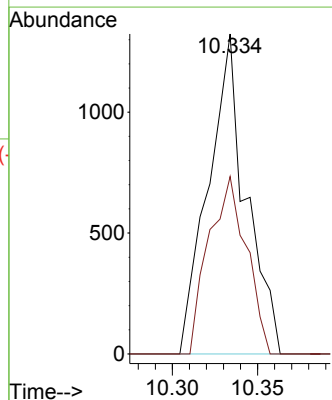
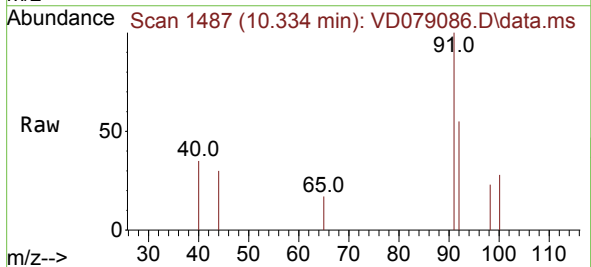
Instrument :  
 MSVOA\_D  
 ClientSampleId :

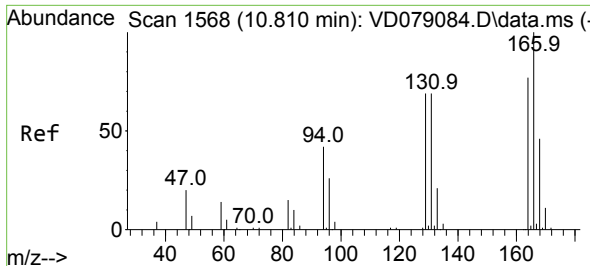
Tgt Ion: 75 Resp: 1019  
 Ion Ratio Lower Upper  
 75 100  
 77 37.0 23.4 43.4



#42  
 Toluene  
 Concen: 0.177 ug/L  
 RT: 10.334 min Scan# 1487  
 Delta R.T. 0.000 min  
 Lab File: VD079086.D  
 Acq: 30 May 2024 10:42

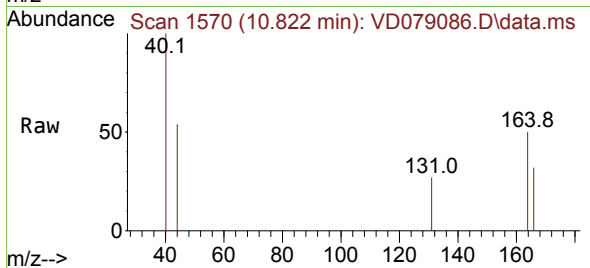
Tgt Ion: 91 Resp: 2036  
 Ion Ratio Lower Upper  
 91 100  
 92 55.4 38.9 72.3





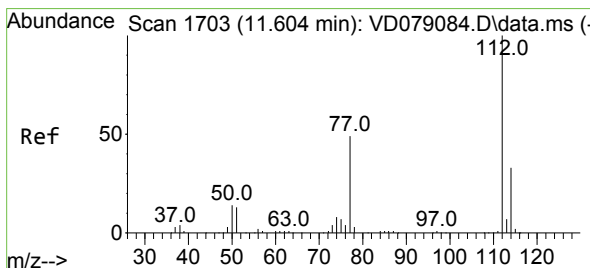
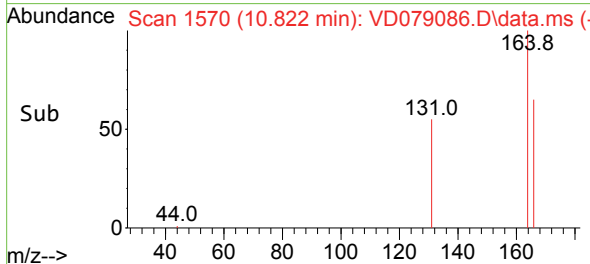
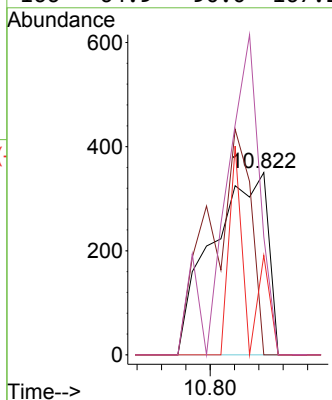
#46  
Tetrachloroethene  
Concen: 0.236 ug/L  
RT: 10.822 min Scan# 1568  
Delta R.T. 0.012 min  
Lab File: VD079086.D  
Acq: 30 May 2024 10:42

Instrument :  
MSVOA\_D  
ClientSampleId :



Tgt Ion:164 Resp: 554

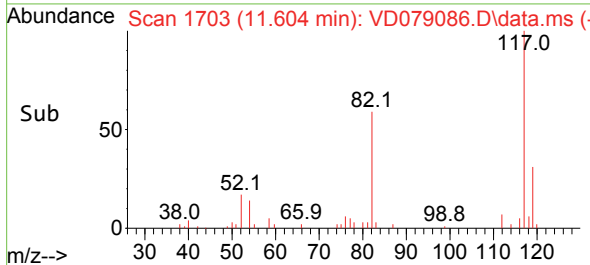
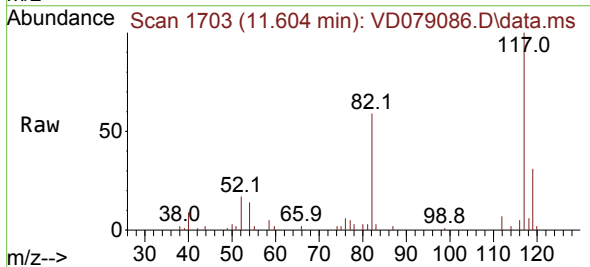
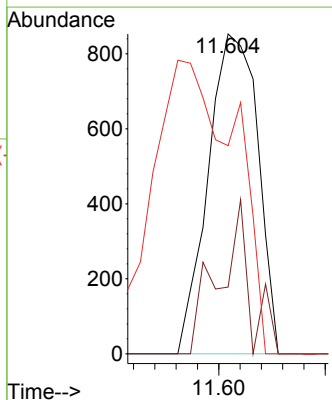
| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 164 | 100   |       |        |
| 129 | 0.0   | 64.3  | 119.5# |
| 131 | 54.6  | 61.2  | 113.8# |
| 166 | 64.9  | 90.0  | 167.2# |

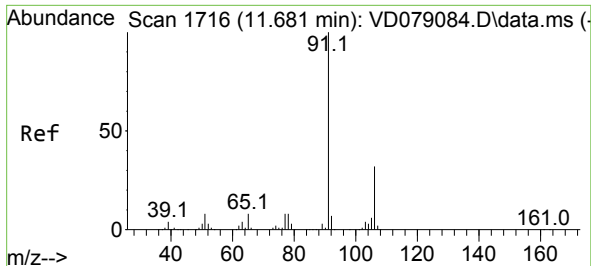


#51  
Chlorobenzene  
Concen: 0.180 ug/L  
RT: 11.604 min Scan# 1703  
Delta R.T. 0.000 min  
Lab File: VD079086.D  
Acq: 30 May 2024 10:42

Tgt Ion:112 Resp: 1381

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 112 | 100   |       |       |
| 114 | 20.9  | 22.7  | 42.3# |
| 77  | 65.1  | 38.4  | 57.6# |

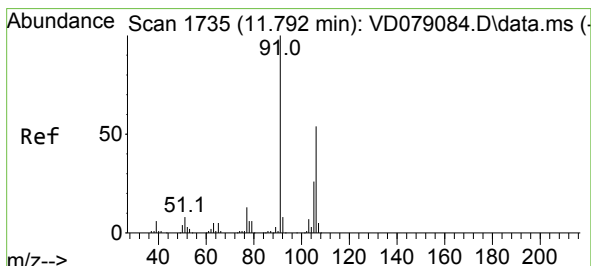
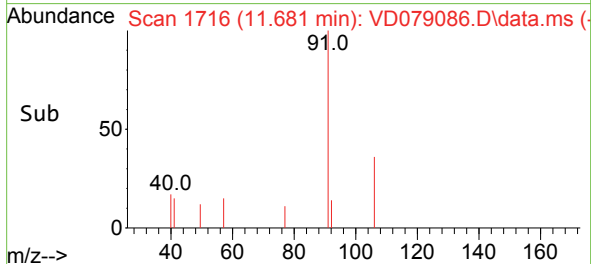
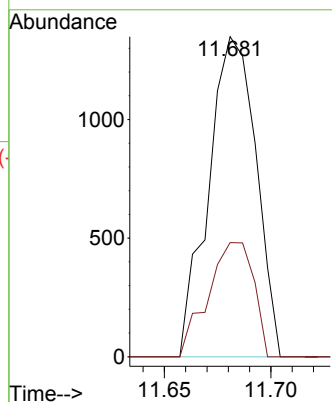
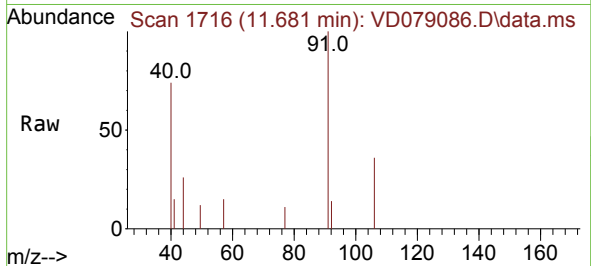




#52  
Ethylbenzene  
Concen: 0.175 ug/L  
RT: 11.681 min Scan# 1716  
Delta R.T. 0.000 min  
Lab File: VD079086.D  
Acq: 30 May 2024 10:42

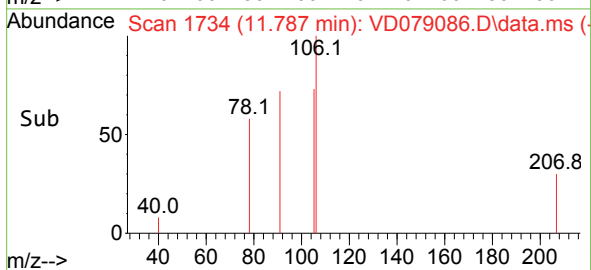
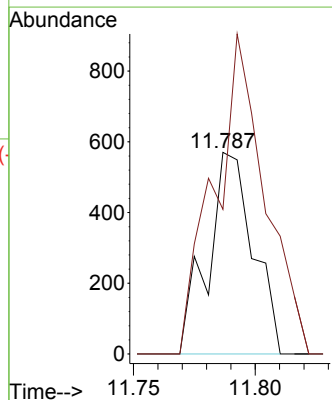
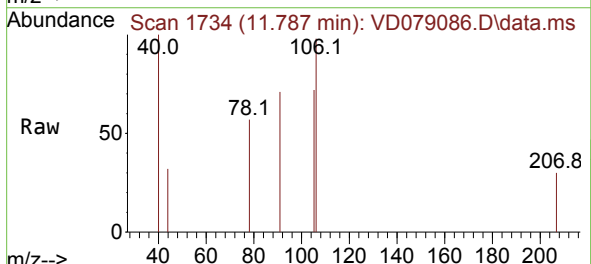
Instrument :  
MSVOA\_D  
ClientSampleId :

Tgt Ion: 91 Resp: 2097  
Ion Ratio Lower Upper  
91 100  
106 35.7 22.3 41.5

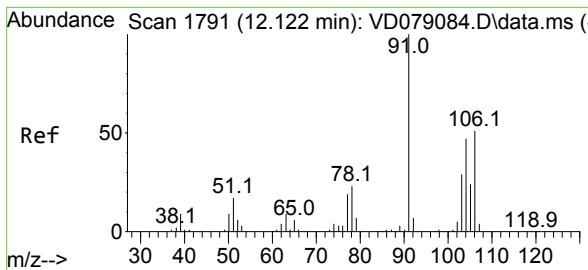


#53  
m,p-Xylene  
Concen: 0.157 ug/L  
RT: 11.787 min Scan# 1734  
Delta R.T. -0.006 min  
Lab File: VD079086.D  
Acq: 30 May 2024 10:42

Tgt Ion: 106 Resp: 737  
Ion Ratio Lower Upper  
106 100  
91 71.8 133.1 247.1#



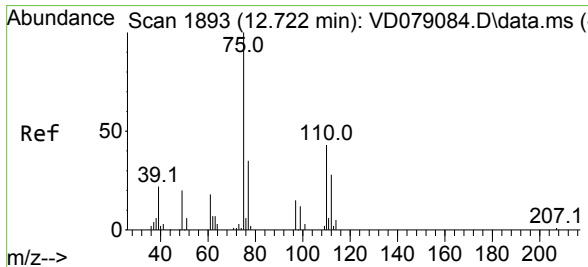
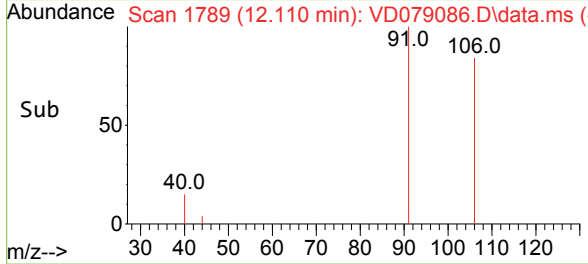
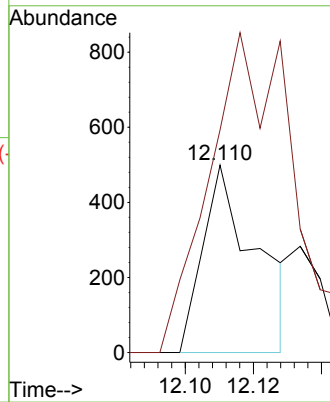
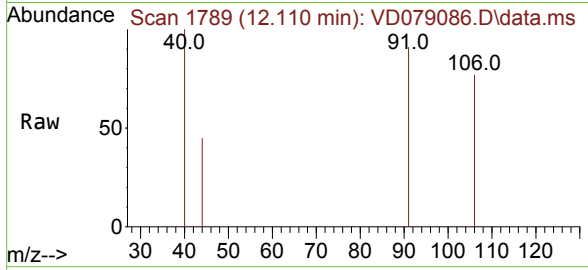




#54  
o-Xylene  
Concen: 0.119 ug/L  
RT: 12.110 min Scan# 11  
Delta R.T. -0.012 min  
Lab File: VD079086.D  
Acq: 30 May 2024 10:42

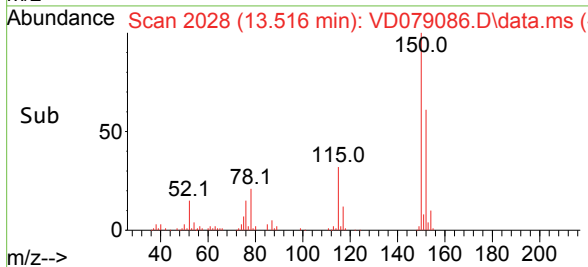
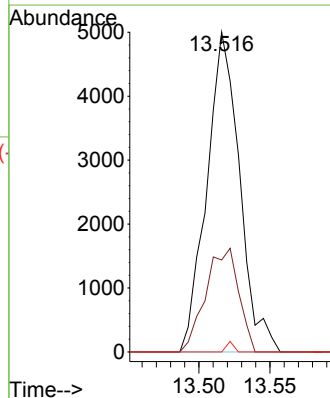
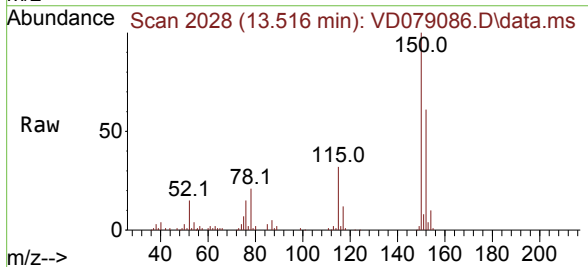
Instrument :  
MSVOA\_D  
ClientSampleId :

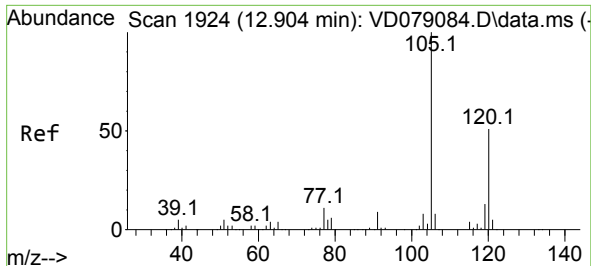
Tgt Ion:106 Resp: 541  
Ion Ratio Lower Upper  
106 100  
91 118.8 132.9 246.9#



#61  
1,2,3-Trichloropropane  
Concen: 6.615 ug/L  
RT: 13.516 min Scan# 2028  
Delta R.T. 0.794 min  
Lab File: VD079086.D  
Acq: 30 May 2024 10:42

Tgt Ion: 75 Resp: 8023  
Ion Ratio Lower Upper  
75 100  
77 32.6 25.9 38.9  
110 0.0 34.2 51.4#





#62

1,3,5-Trimethylbenzene

Concen: 0.202 ug/L

RT: 13.216 min Scan# 1924

Delta R.T. 0.312 min

Lab File: VD079086.D

Acq: 30 May 2024 10:42

Instrument :

MSVOA\_D

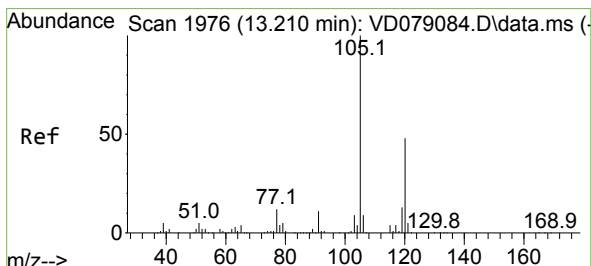
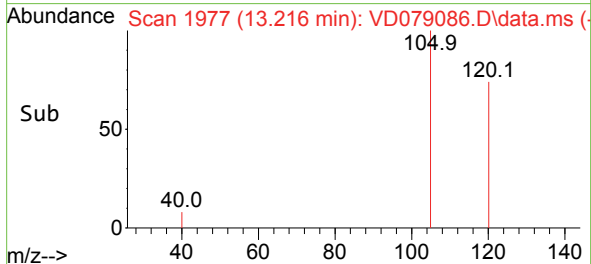
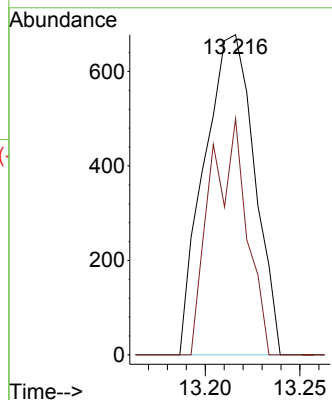
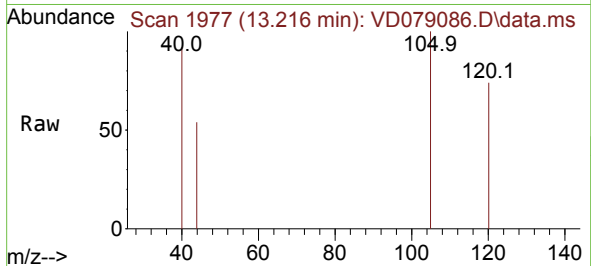
ClientSampleId :

Tgt Ion:105 Resp: 1252

Ion Ratio Lower Upper

105 100

120 53.7 40.7 61.1



#63

1,2,4-Trimethylbenzene

Concen: 0.188 ug/L

RT: 13.216 min Scan# 1977

Delta R.T. 0.006 min

Lab File: VD079086.D

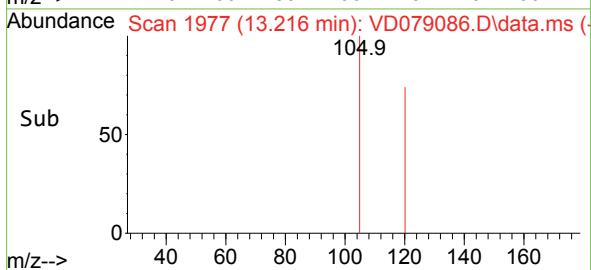
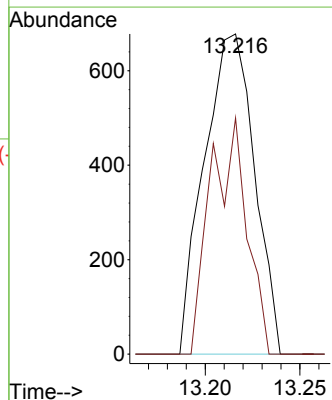
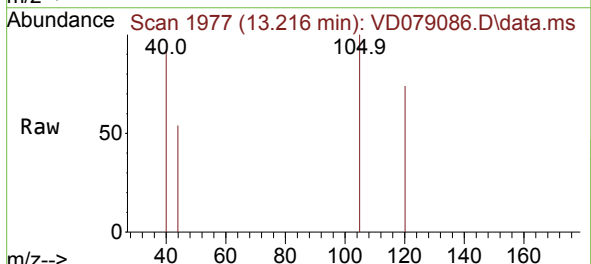
Acq: 30 May 2024 10:42

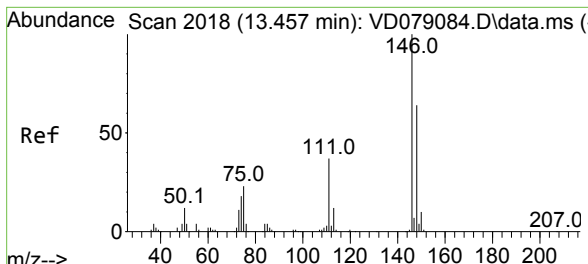
Tgt Ion:105 Resp: 1252

Ion Ratio Lower Upper

105 100

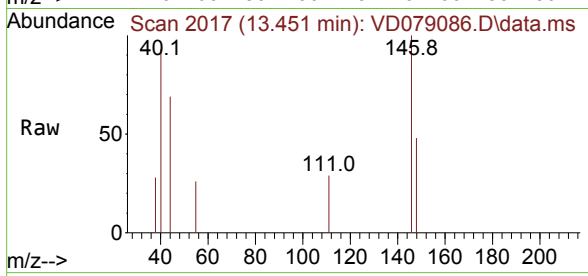
120 53.7 38.0 57.0





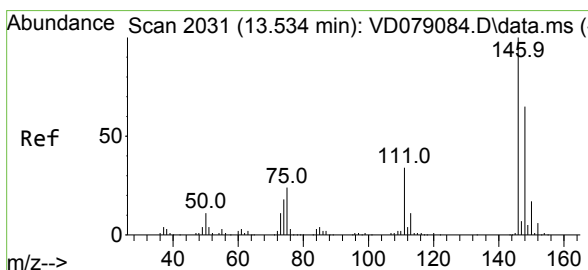
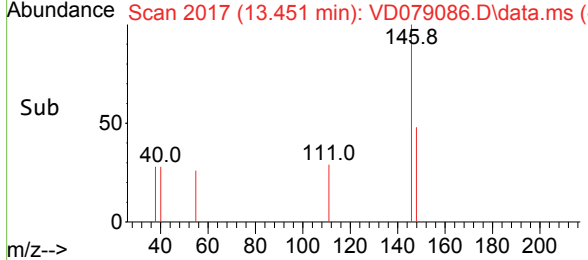
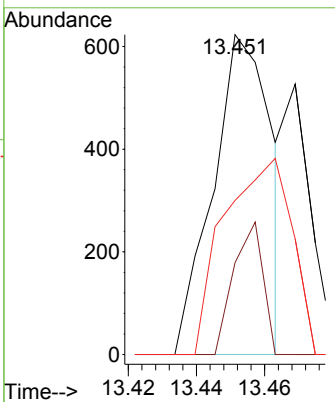
#64  
 1,3-Dichlorobenzene  
 Concen: 0.171 ug/L  
 RT: 13.451 min Scan# 2017  
 Delta R.T. -0.006 min  
 Lab File: VD079086.D  
 Acq: 30 May 2024 10:42

Instrument :  
 MSVOA\_D  
 ClientSampleId :



Tgt Ion:146 Resp: 748

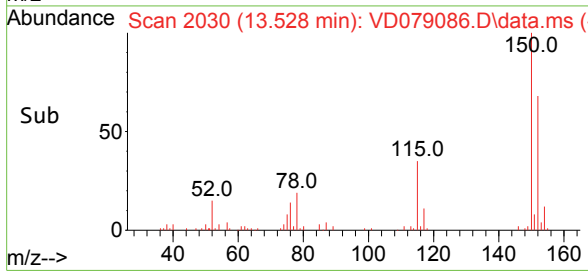
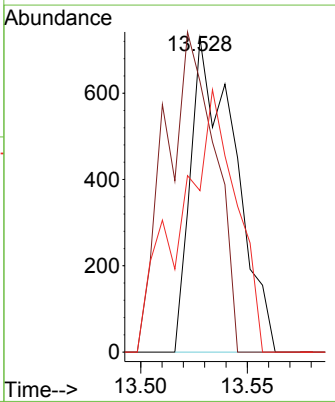
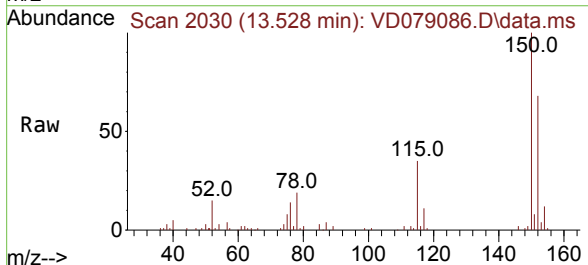
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 146 | 100   |       |       |
| 111 | 28.7  | 24.4  | 45.4  |
| 148 | 48.2  | 44.9  | 83.3  |

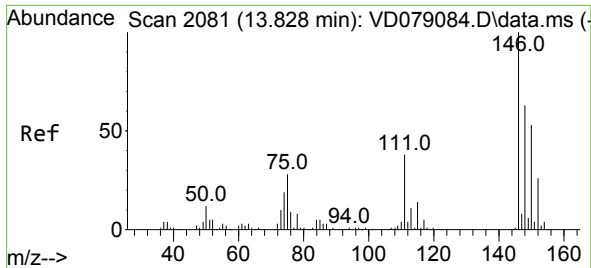


#65  
 1,4-Dichlorobenzene  
 Concen: 0.228 ug/L  
 RT: 13.528 min Scan# 2030  
 Delta R.T. -0.006 min  
 Lab File: VD079086.D  
 Acq: 30 May 2024 10:42

Tgt Ion:146 Resp: 1055

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 146 | 100   |       |       |
| 111 | 86.2  | 26.3  | 48.9# |
| 148 | 51.4  | 43.1  | 80.1  |





#67

1,2-Dichlorobenzene

Concen: 0.280 ug/L

RT: 13.828 min Scan# 2081

Delta R.T. 0.000 min

Lab File: VD079086.D

Acq: 30 May 2024 10:42

Instrument :

MSVOA\_D

ClientSampleId :

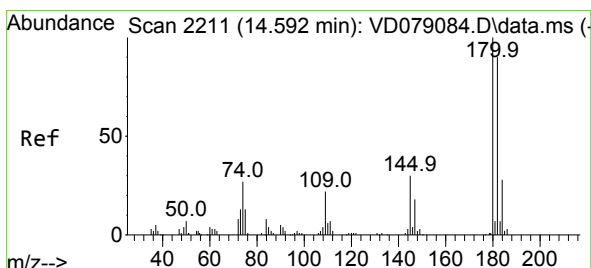
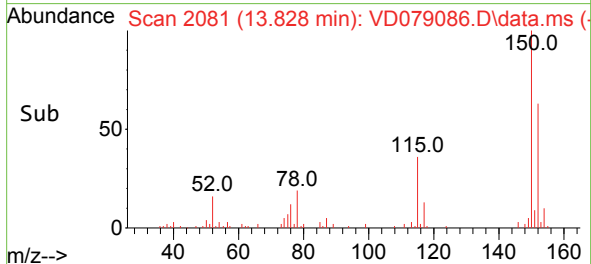
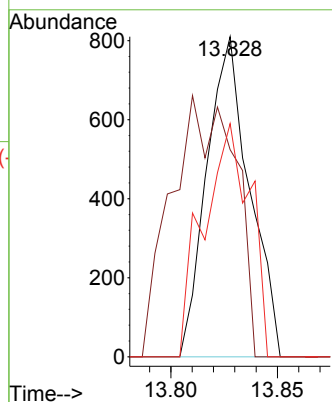
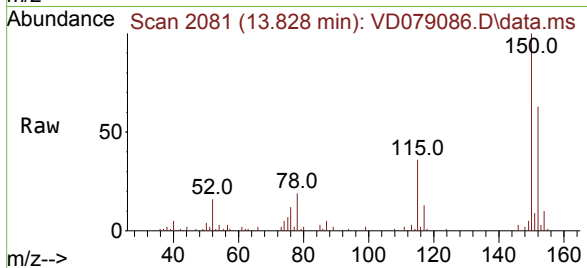
Tgt Ion:146 Resp: 1128

Ion Ratio Lower Upper

146 100

111 64.7 29.1 43.7#

148 72.8 51.2 76.8



#69

1,3,5-Trichlorobenzene

Concen: 0.295 ug/L

RT: 14.587 min Scan# 2210

Delta R.T. -0.006 min

Lab File: VD079086.D

Acq: 30 May 2024 10:42

Tgt Ion:180 Resp: 811

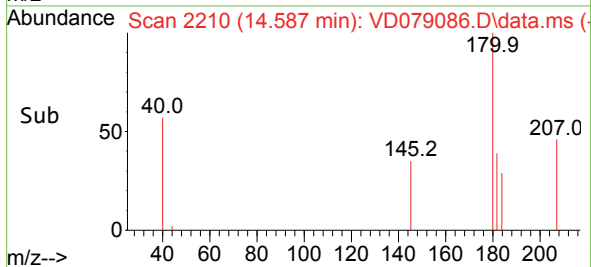
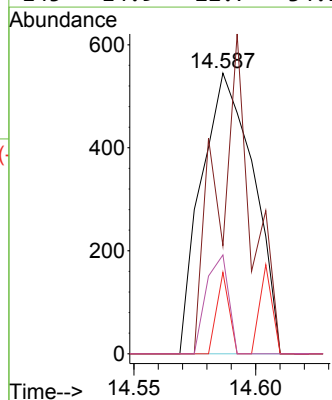
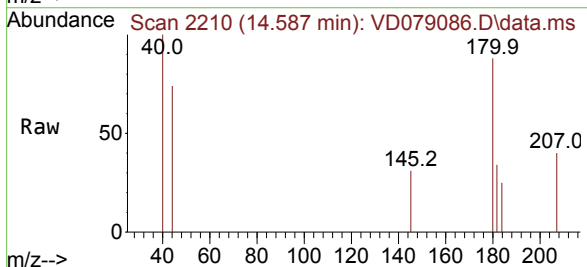
Ion Ratio Lower Upper

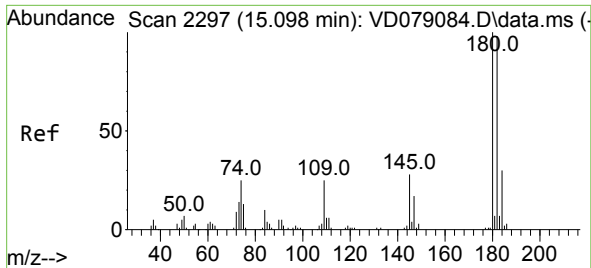
180 100

182 73.4 76.9 115.3#

184 0.0 23.3 34.9#

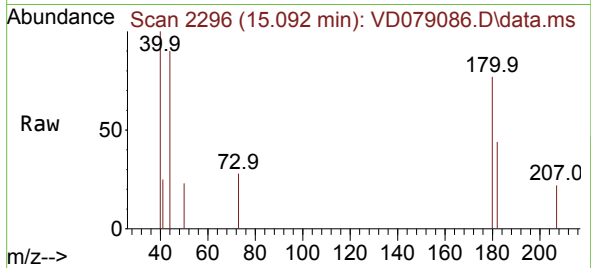
145 14.9 22.7 34.1#





#70  
 1,2,4-trichlorobenzene  
 Concen: 0.254 ug/L  
 RT: 15.092 min Scan# 21  
 Delta R.T. -0.006 min  
 Lab File: VD079086.D  
 Acq: 30 May 2024 10:42

Instrument :  
 MSVOA\_D  
 ClientSampleId :



|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:180 | Resp: | 581         |
| Ion         | Ratio | Lower Upper |
| 180         | 100   |             |
| 182         | 84.2  | 73.8 110.6  |
| 145         | 0.0   | 22.3 33.5#  |

