

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD091824\  
 Data File : VD079863.D  
 Acq On : 18 Sep 2024 14:50  
 Operator : RP/MD  
 Sample : P4083-09  
 Misc : 5.03G/10ml/MSVOA\_D/SOIL/A  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Sep 19 01:54:34 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\SFAMDLM091024SMA.M  
 Quant Title : SFAM01.0  
 QLast Update : Thu Sep 19 01:50:07 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min)  |
|-------------------------------|--------|-------|----------|----------|--------|-----------|
| -----                         |        |       |          |          |        |           |
| Internal Standards            |        |       |          |          |        |           |
| 1) 1,4-Difluorobenzene        | 8.781  | 114   | 127505   | 25.000   | ug/L   | 0.00      |
| 28) Chlorobenzene-d5          | 11.580 | 117   | 79701    | 25.000   | ug/L   | 0.00      |
| 58) 1,4-Dichlorobenzene-d4    | 13.516 | 152   | 18992    | 25.000   | ug/L   | 0.00      |
| System Monitoring Compounds   |        |       |          |          |        |           |
| 4) Vinyl Chloride-d3          | 2.275  | 65    | 88542    | 15.970   | ug/L   | 0.00      |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 63.880%   |
| 7) Chloroethane-d5            | 2.804  | 69    | 92451    | 21.061   | ug/L   | 0.00      |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 84.240%   |
| 11) 1,1-Dichloroethene-d2     | 3.922  | 65    | 15295    | 15.194   | ug/L   | 0.00      |
| Spiked Amount                 | 25.000 | Range | 45 - 110 | Recovery | =      | 60.760%   |
| 21) 2-Butanone-d5             | 6.992  | 46    | 21505    | 41.747   | ug/L   | 0.00      |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 83.500%   |
| 24) Chloroform-d              | 7.563  | 84    | 90527    | 21.599   | ug/L   | 0.00      |
| Spiked Amount                 | 25.000 | Range | 40 - 150 | Recovery | =      | 86.400%   |
| 26) 1,2-Dichloroethane-d4     | 8.228  | 65    | 49031    | 22.371   | ug/L   | 0.00      |
| Spiked Amount                 | 25.000 | Range | 70 - 130 | Recovery | =      | 89.480%   |
| 32) Benzene-d6                | 8.198  | 84    | 159072   | 28.270   | ug/L   | 0.00      |
| Spiked Amount                 | 25.000 | Range | 20 - 135 | Recovery | =      | 113.080%  |
| 36) 1,2-Dichloropropane-d6    | 9.210  | 67    | 56210    | 32.617   | ug/L   | 0.00      |
| Spiked Amount                 | 25.000 | Range | 70 - 120 | Recovery | =      | 130.480%# |
| 41) Toluene-d8                | 10.269 | 98    | 102147   | 20.630   | ug/L   | 0.00      |
| Spiked Amount                 | 25.000 | Range | 30 - 130 | Recovery | =      | 82.520%   |
| 43) trans-1,3-Dichloroprop... | 10.528 | 79    | 18757    | 25.316   | ug/L   | 0.00      |
| Spiked Amount                 | 25.000 | Range | 30 - 135 | Recovery | =      | 101.280%  |
| 47) 2-Hexanone-d5             | 10.875 | 63    | 16567    | 58.973   | ug/L   | 0.00      |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 117.940%  |
| 56) 1,1,2,2-Tetrachloroeth... | 12.651 | 84    | 32291    | 25.499   | ug/L   | 0.00      |
| Spiked Amount                 | 25.000 | Range | 45 - 120 | Recovery | =      | 102.000%  |
| 66) 1,2-Dichlorobenzene-d4    | 13.810 | 152   | 15412    | 21.518   | ug/L   | 0.00      |
| Spiked Amount                 | 25.000 | Range | 75 - 120 | Recovery | =      | 86.080%   |
| Target Compounds              |        |       |          |          |        |           |
|                               |        |       |          |          | Qvalue |           |
| 13) Acetone                   | 4.016  | 43    | 24055    | 38.302   | ug/L   | 98        |
| 14) Carbon disulfide          | 4.275  | 76    | 6716     | 1.066    | ug/L   | 97        |
| 22) 2-Butanone                | 7.087  | 43    | 8707     | 11.819   | ug/L   | 82        |
| 25) Chloroform                | 7.592  | 83    | 880      | 0.206    | ug/L   | 78        |
| 33) Benzene                   | 8.257  | 78    | 1842     | 0.310    | ug/L   | 100       |
| 35) Methylcyclohexane         | 9.275  | 83    | 544      | 0.246    | ug/L # | 62        |
| 37) 1,2-Dichloropropane       | 9.210  | 63    | 6475     | 4.001    | ug/L # | 100       |
| 39) cis-1,3-Dichloropropene   | 9.981  | 75    | 1429     | 0.629    | ug/L # | 81        |
| 42) Toluene                   | 10.334 | 91    | 1237     | 0.198    | ug/L   | 93        |
| 44) trans-1,3-Dichloropropene | 10.528 | 75    | 1050     | 0.524    | ug/L   | 97        |
| 45) 1,1,2-Trichloroethane     | 10.716 | 97    | 261      | 0.236    | ug/L # | 30        |
| 48) 2-Hexanone                | 10.886 | 43    | 8130     | 11.797   | ug/L # | 30        |
| 60) Isopropylbenzene          | 12.422 | 105   | 474      | 0.145    | ug/L # | 1         |
| 61) 1,2,3-Trichloropropane    | 13.516 | 75    | 2458     | 5.265    | ug/L # | 73        |
| 62) 1,3,5-Trimethylbenzene    | 12.898 | 105   | 1337     | 0.558    | ug/L # | 35        |
| 63) 1,2,4-Trimethylbenzene    | 13.210 | 105   | 1730     | 0.688    | ug/L # | 75        |
| 69) 1,3,5-Trichlorobenzene    | 14.710 | 180   | 131      | 0.159    | ug/L # | 1         |
| 70) 1,2,4-trichlorobenzene    | 15.086 | 180   | 464      | 0.671    | ug/L # | 1         |
| 72) 1,2,3-Trichlorobenzene    | 15.539 | 180   | 1005     | 1.624    | ug/L # | 1         |

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Sample : P4083-09  
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ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

Quant Time: Sep 19 01:54:34 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\SFAMDLM091024SMA.M  
Quant Title : SFAM01.0  
QLast Update : Thu Sep 19 01:50:07 2024  
Response via : Initial Calibration

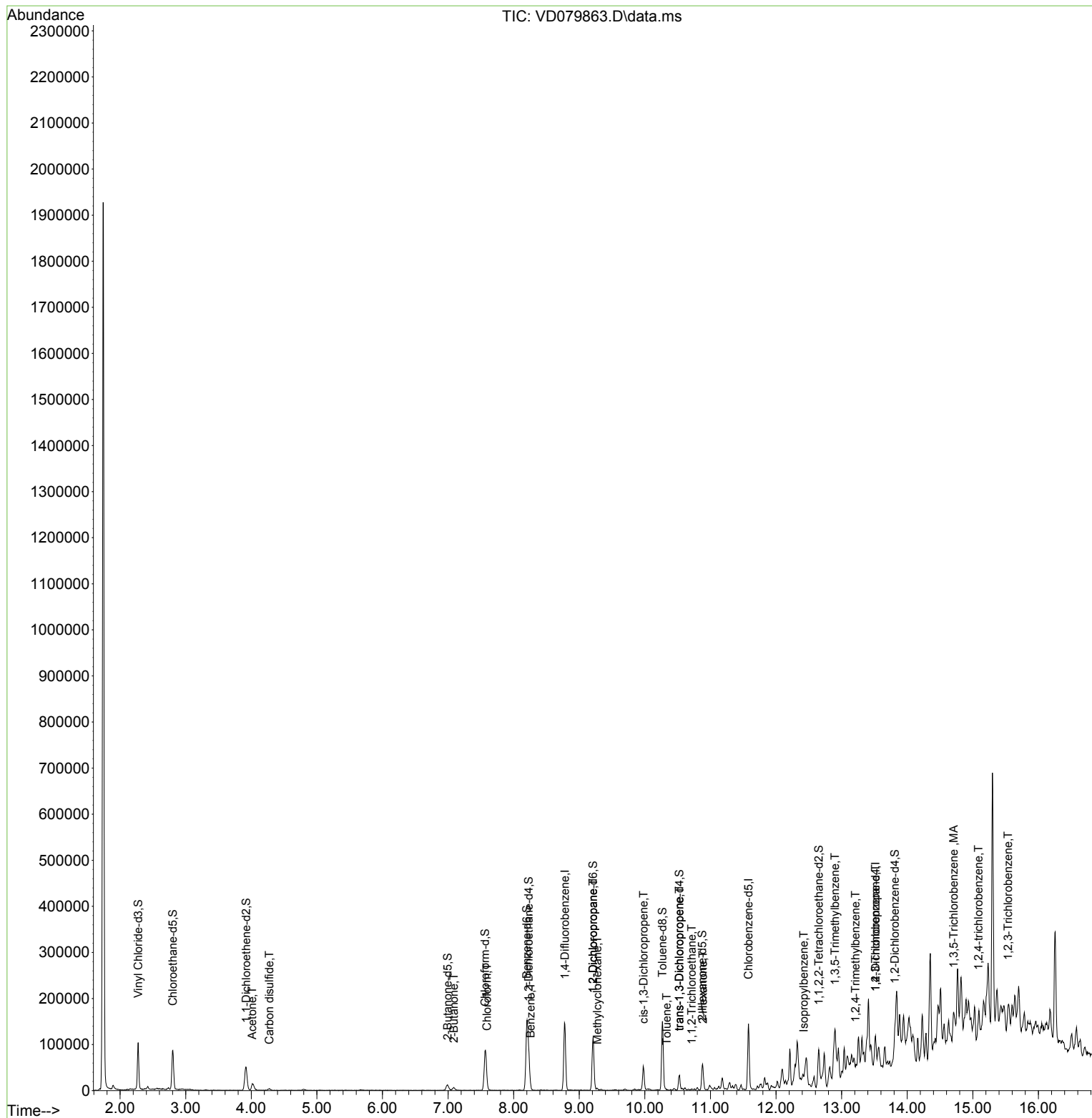
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
| -----    |      |      |          |      |       |          |
| -----    |      |      |          |      |       |          |

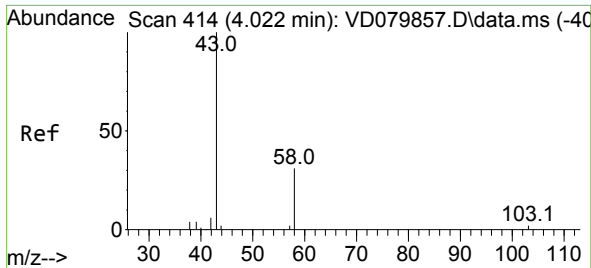
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Sep 19 01:54:34 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\SFAMDLM091024SMA.M  
Quant Title : SFAM01.0  
QLast Update : Thu Sep 19 01:50:07 2024  
Response via : Initial Calibration





#13

Acetone

Concen: 38.302 ug/L

RT: 4.016 min Scan# 41

Delta R.T. -0.006 min

Lab File: VD079863.D

Acq: 18 Sep 2024 14:50

Instrument :

MSVOA\_D

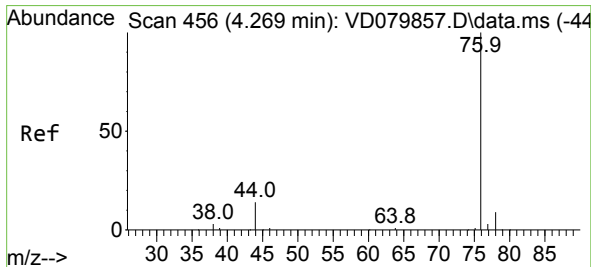
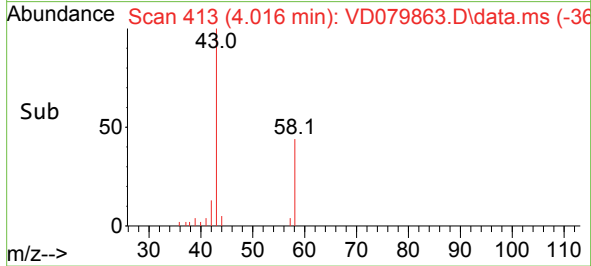
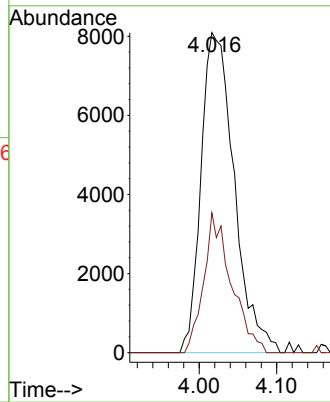
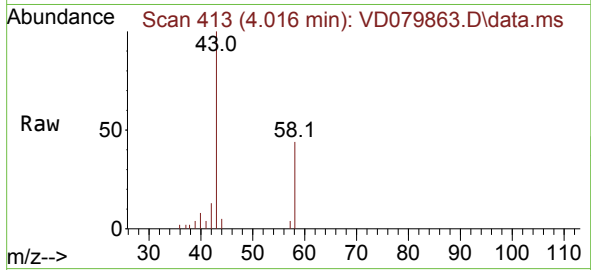
ClientSampleId :

Tgt Ion: 43 Resp: 24055

Ion Ratio Lower Upper

43 100

58 36.4 0.0 75.8



#14

Carbon disulfide

Concen: 1.066 ug/L

RT: 4.275 min Scan# 457

Delta R.T. 0.006 min

Lab File: VD079863.D

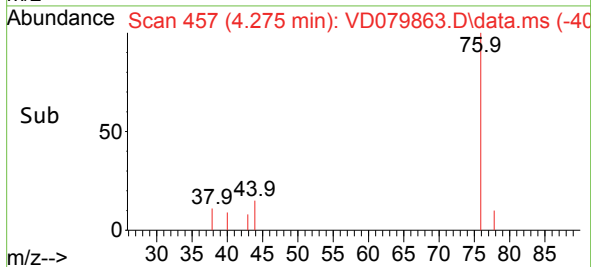
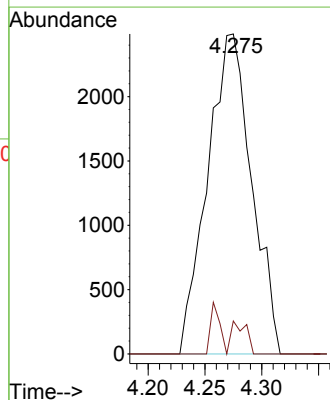
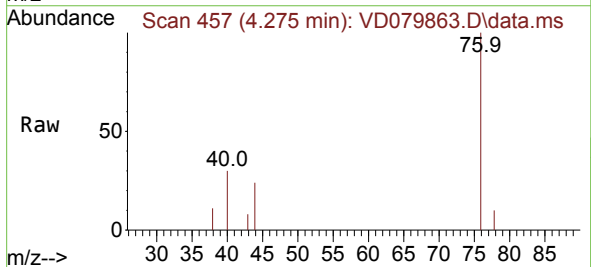
Acq: 18 Sep 2024 14:50

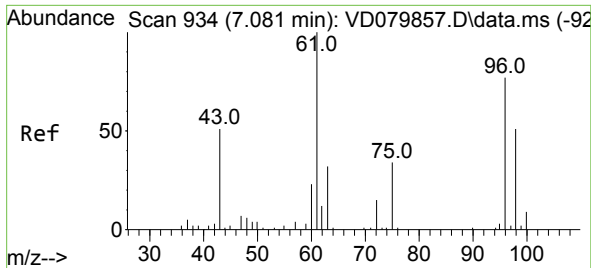
Tgt Ion: 76 Resp: 6716

Ion Ratio Lower Upper

76 100

78 10.3 7.3 10.9





#22

2-Butanone

Concen: 11.819 ug/L

RT: 7.087 min Scan# 91

Delta R.T. 0.006 min

Lab File: VD079863.D

Acq: 18 Sep 2024 14:50

Instrument :

MSVOA\_D

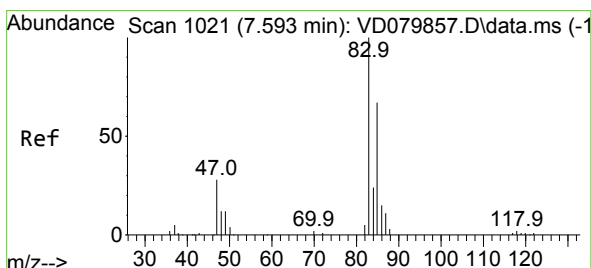
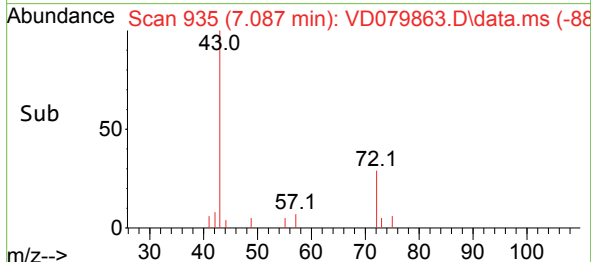
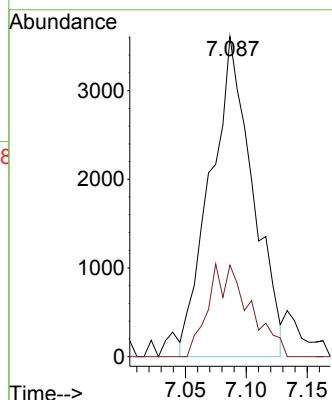
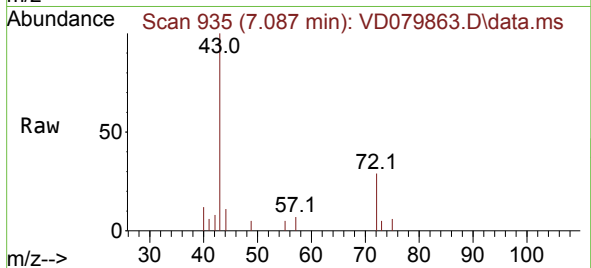
ClientSampleId :

Tgt Ion: 43 Resp: 8707

Ion Ratio Lower Upper

43 100

72 16.8 13.1 39.3



#25

Chloroform

Concen: 0.206 ug/L

RT: 7.592 min Scan# 1021

Delta R.T. -0.000 min

Lab File: VD079863.D

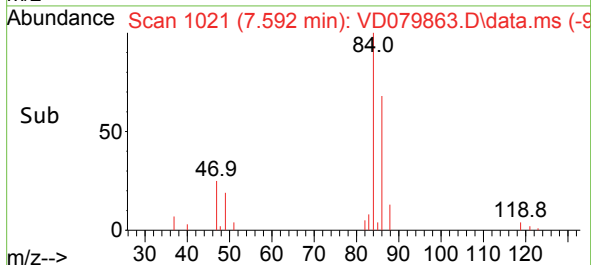
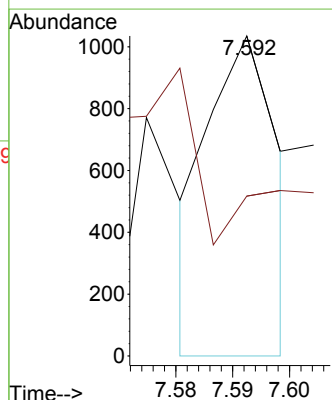
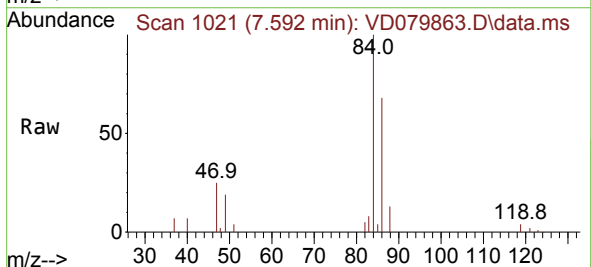
Acq: 18 Sep 2024 14:50

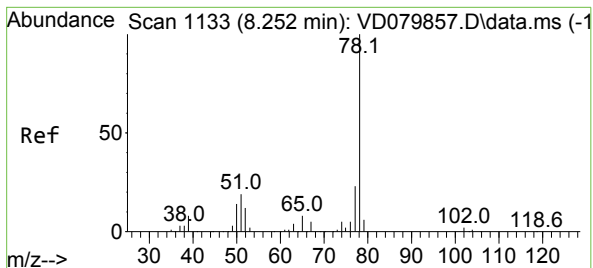
Tgt Ion: 83 Resp: 880

Ion Ratio Lower Upper

83 100

85 50.0 47.3 87.9





#33

Benzene

Concen: 0.310 ug/L

RT: 8.257 min Scan# 1133

Delta R.T. 0.006 min

Lab File: VD079863.D

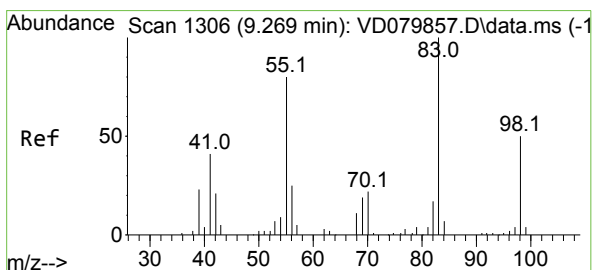
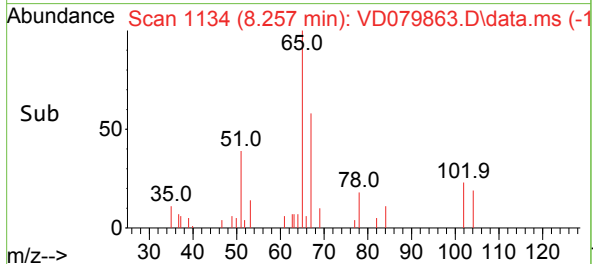
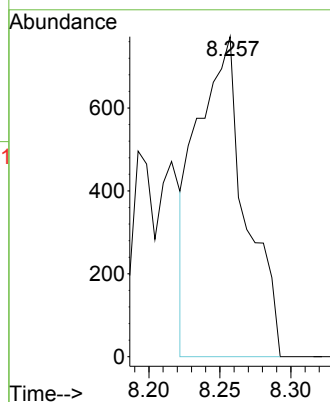
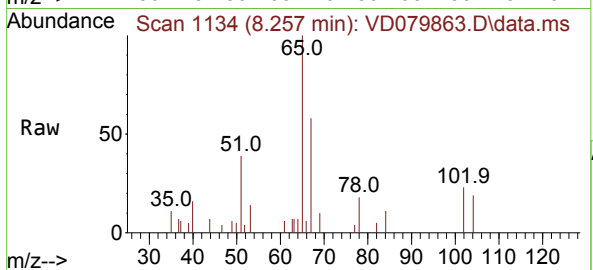
Acq: 18 Sep 2024 14:50

Instrument :

MSVOA\_D

ClientSampleId :

Tgt Ion: 78 Resp: 1842



#35

Methylcyclohexane

Concen: 0.246 ug/L

RT: 9.275 min Scan# 1307

Delta R.T. 0.006 min

Lab File: VD079863.D

Acq: 18 Sep 2024 14:50

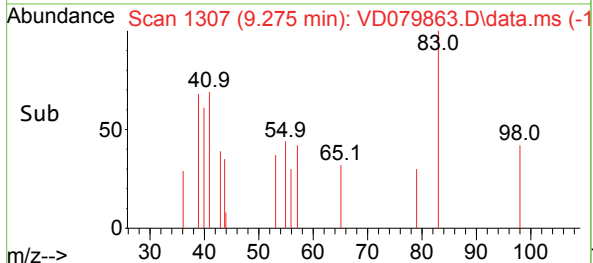
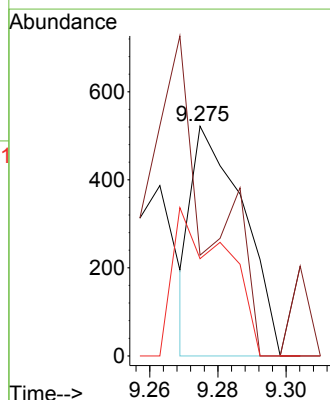
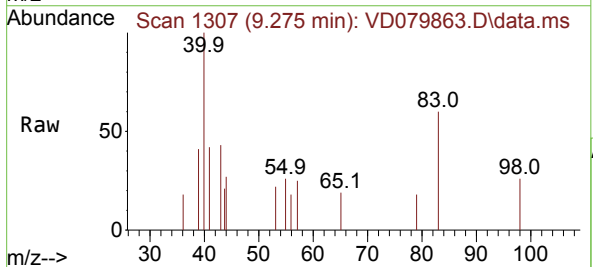
Tgt Ion: 83 Resp: 544

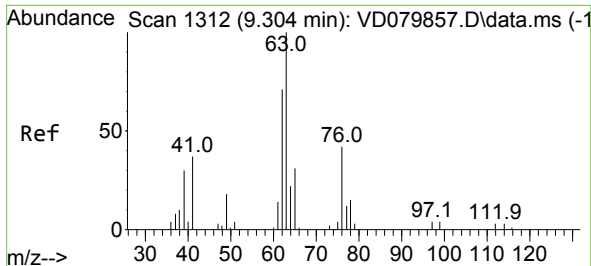
Ion Ratio Lower Upper

83 100

55 116.4 58.9 88.3#

98 36.2 38.6 58.0#





#37

1,2-Dichloropropane

Concen: 4.001 ug/L

RT: 9.210 min Scan# 11

Delta R.T. -0.094 min

Lab File: VD079863.D

Acq: 18 Sep 2024 14:50

Instrument :

MSVOA\_D

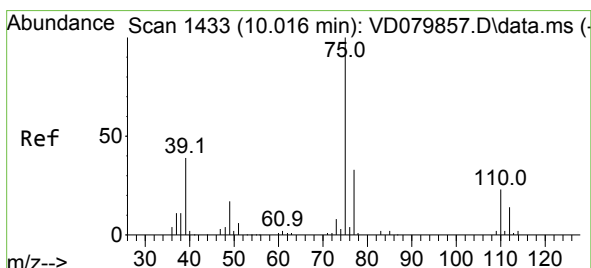
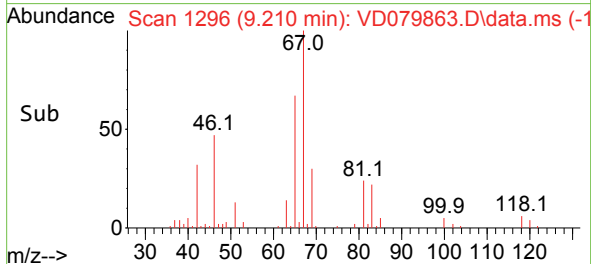
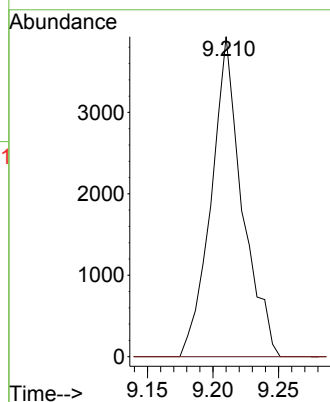
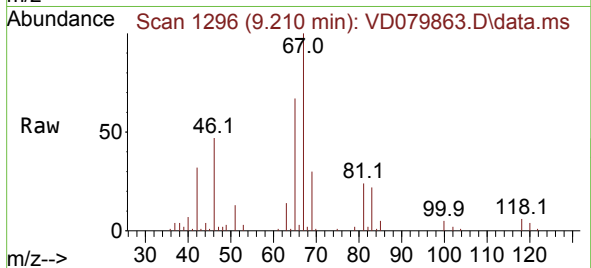
ClientSampleId :

Tgt Ion: 63 Resp: 6475

Ion Ratio Lower Upper

63 100

112 0.0 0.0 0.0



#39

cis-1,3-Dichloropropene

Concen: 0.629 ug/L

RT: 9.981 min Scan# 1427

Delta R.T. -0.036 min

Lab File: VD079863.D

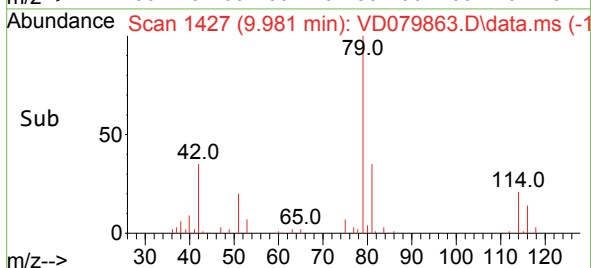
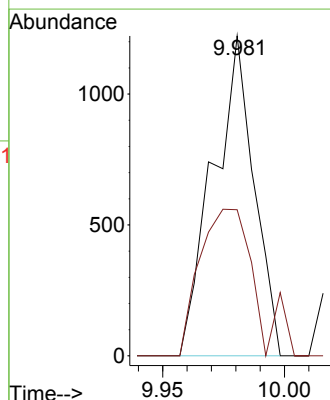
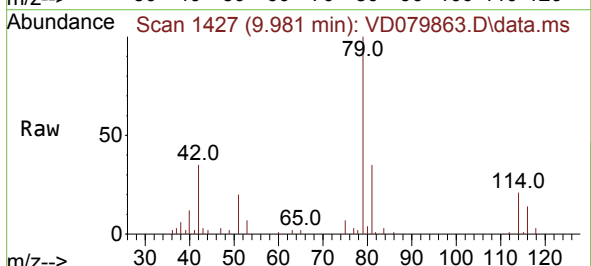
Acq: 18 Sep 2024 14:50

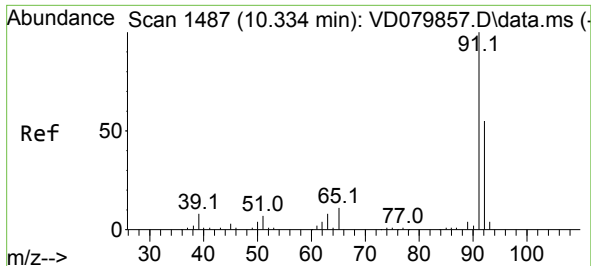
Tgt Ion: 75 Resp: 1429

Ion Ratio Lower Upper

75 100

77 45.7 24.1 44.8#

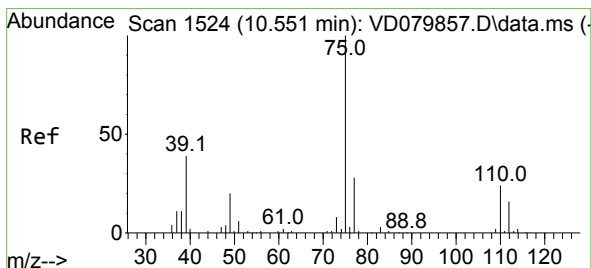
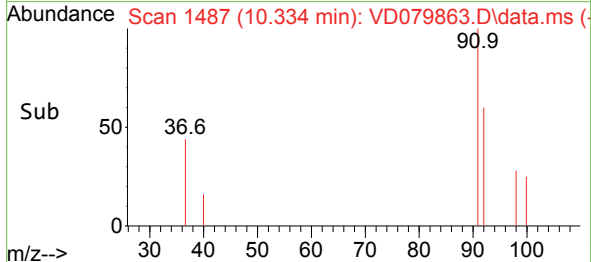
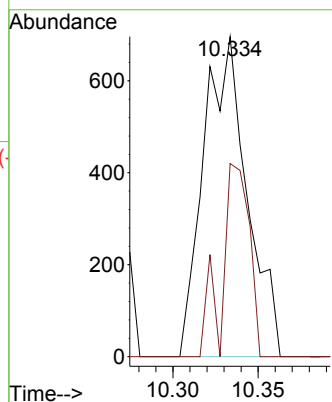
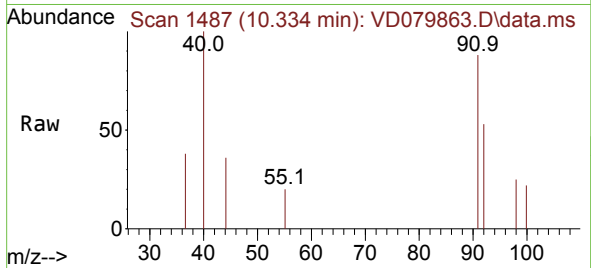




#42  
Toluene  
Concen: 0.198 ug/L  
RT: 10.334 min Scan# 1487  
Delta R.T. -0.000 min  
Lab File: VD079863.D  
Acq: 18 Sep 2024 14:50

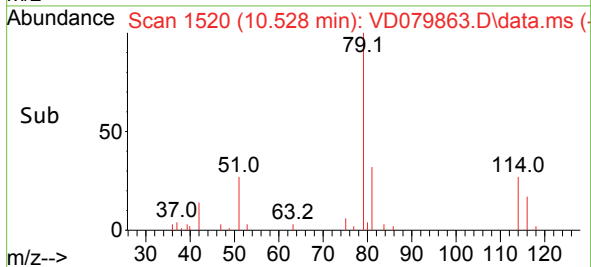
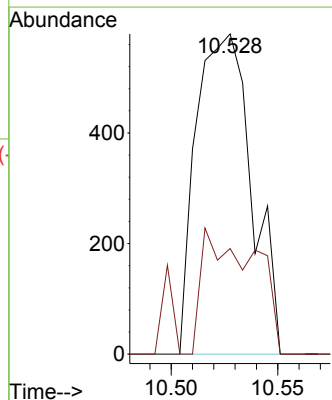
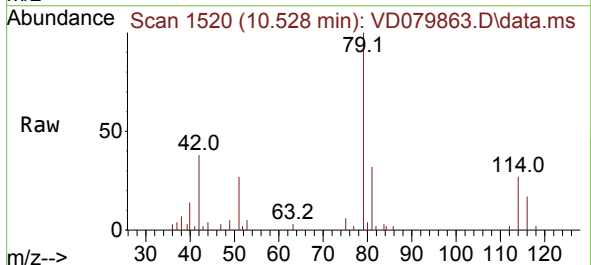
Instrument :  
MSVOA\_D  
ClientSampleId :

Tgt Ion: 91 Resp: 1237  
Ion Ratio Lower Upper  
91 100  
92 60.3 38.6 71.8

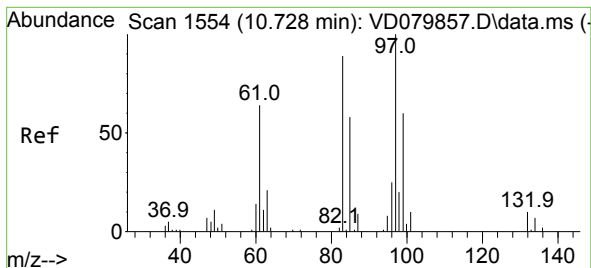


#44  
trans-1,3-Dichloropropene  
Concen: 0.524 ug/L  
RT: 10.528 min Scan# 1520  
Delta R.T. -0.024 min  
Lab File: VD079863.D  
Acq: 18 Sep 2024 14:50

Tgt Ion: 75 Resp: 1050  
Ion Ratio Lower Upper  
75 100  
77 33.0 21.8 40.4







#45

1,1,2-Trichloroethane

Concen: 0.236 ug/L

RT: 10.716 min Scan# 1552

Delta R.T. -0.012 min

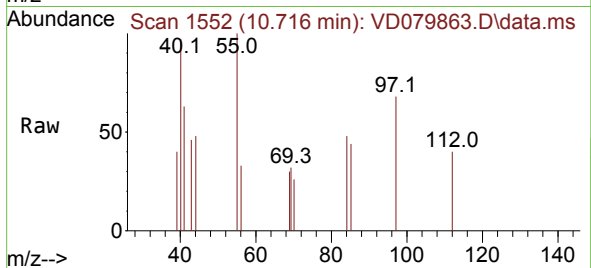
Lab File: VD079863.D

Acq: 18 Sep 2024 14:50

Instrument :

MSVOA\_D

ClientSampleId :



Tgt Ion: 97 Resp: 261

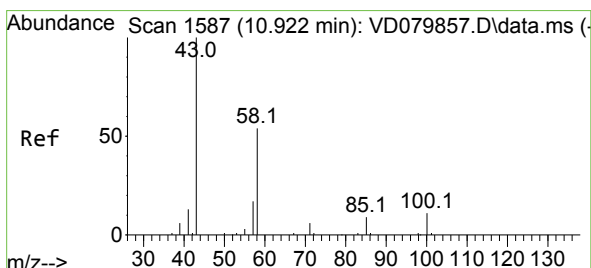
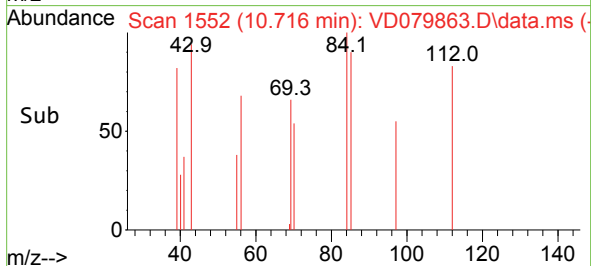
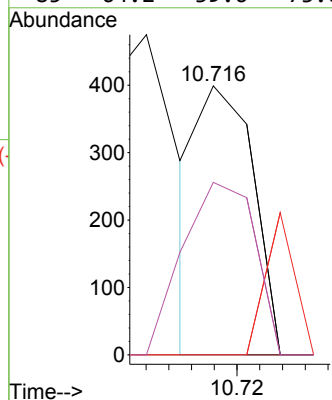
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
|-----|-------|-------|-------|

|    |     |  |  |
|----|-----|--|--|
| 97 | 100 |  |  |
|----|-----|--|--|

|    |     |      |       |
|----|-----|------|-------|
| 99 | 0.0 | 45.1 | 83.7# |
|----|-----|------|-------|

|    |     |      |        |
|----|-----|------|--------|
| 83 | 0.0 | 65.2 | 121.0# |
|----|-----|------|--------|

|    |      |      |      |
|----|------|------|------|
| 85 | 64.2 | 39.6 | 73.6 |
|----|------|------|------|



#48

2-Hexanone

Concen: 11.797 ug/L

RT: 10.886 min Scan# 1581

Delta R.T. -0.036 min

Lab File: VD079863.D

Acq: 18 Sep 2024 14:50

Tgt Ion: 43 Resp: 8130

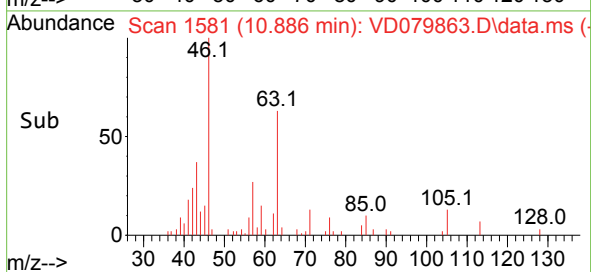
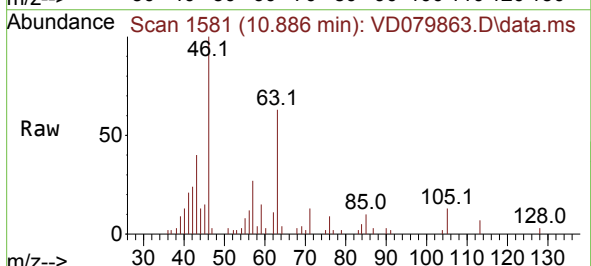
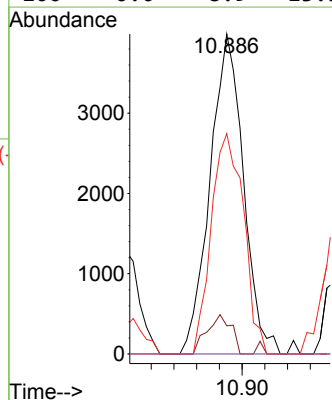
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
|-----|-------|-------|-------|

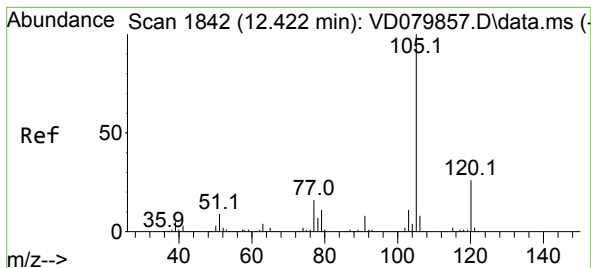
|    |     |  |  |
|----|-----|--|--|
| 43 | 100 |  |  |
|----|-----|--|--|

|    |     |      |       |
|----|-----|------|-------|
| 58 | 8.9 | 44.7 | 67.1# |
|----|-----|------|-------|

|    |      |      |       |
|----|------|------|-------|
| 57 | 66.7 | 13.6 | 20.4# |
|----|------|------|-------|

|     |     |     |       |
|-----|-----|-----|-------|
| 100 | 0.0 | 8.9 | 13.3# |
|-----|-----|-----|-------|





#60

Isopropylbenzene

Concen: 0.145 ug/L

RT: 12.422 min Scan# 11

Delta R.T. -0.000 min

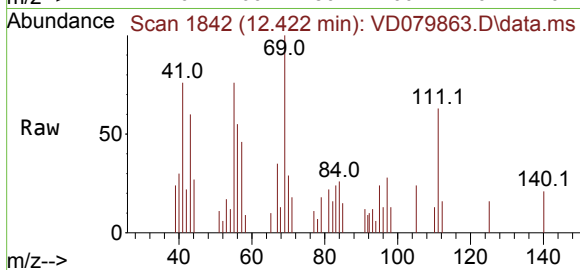
Lab File: VD079863.D

Acq: 18 Sep 2024 14:50

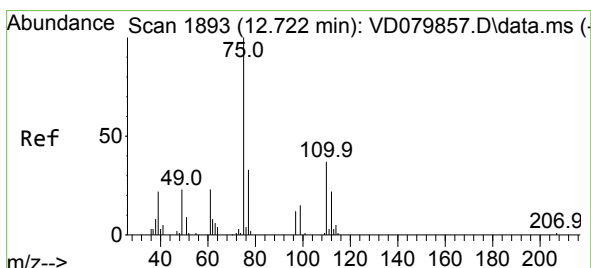
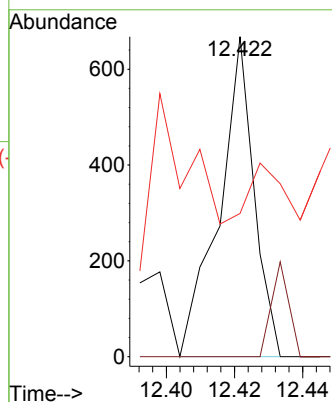
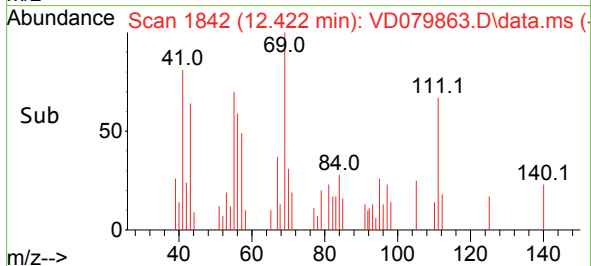
Instrument :

MSVOA\_D

ClientSampleId :



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 105   | Resp: | 474   |
| Ion Ratio | Lower | Upper |       |
| 105       | 100   |       |       |
| 120       | 0.0   | 20.9  | 31.3# |
| 77        | 100.4 | 12.6  | 19.0# |



#61

1,2,3-Trichloropropane

Concen: 5.265 ug/L

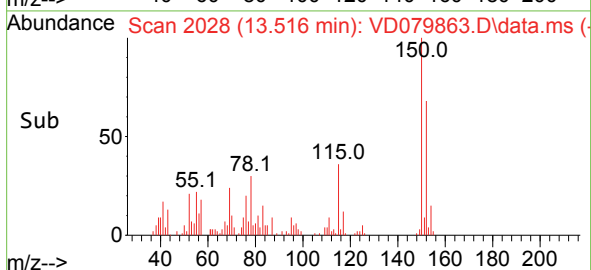
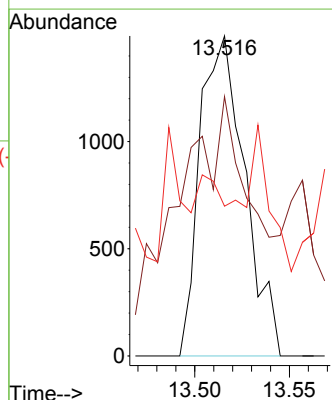
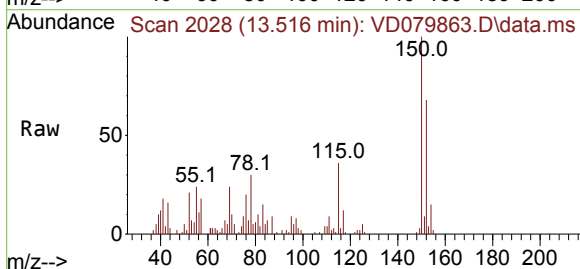
RT: 13.516 min Scan# 2028

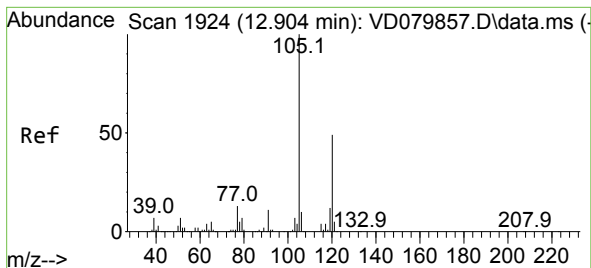
Delta R.T. 0.794 min

Lab File: VD079863.D

Acq: 18 Sep 2024 14:50

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 75    | Resp: | 2458  |
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 77        | 21.3  | 25.1  | 37.7# |
| 110       | 16.8  | 30.1  | 45.1# |





#62

1,3,5-Trimethylbenzene

Concen: 0.558 ug/L

RT: 12.898 min Scan# 1923

Delta R.T. -0.006 min

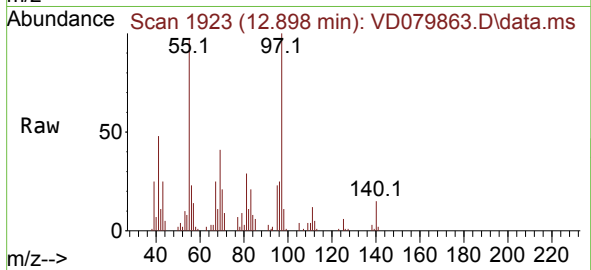
Lab File: VD079863.D

Acq: 18 Sep 2024 14:50

Instrument :

MSVOA\_D

ClientSampleId :

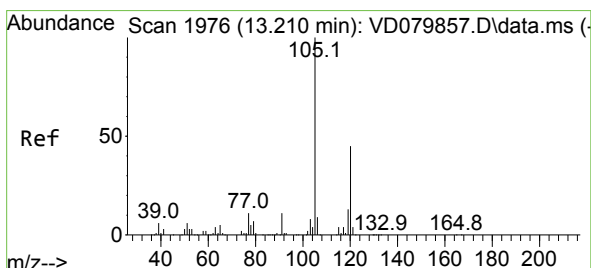
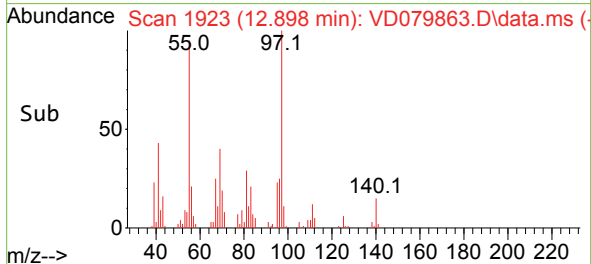
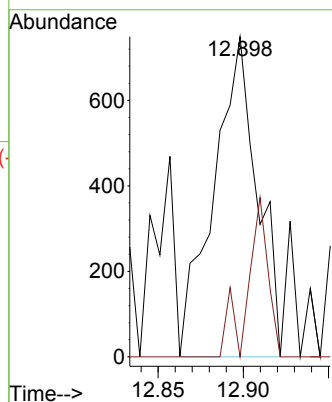


Tgt Ion:105 Resp: 1337

Ion Ratio Lower Upper

105 100

120 4.3 38.3 57.5#



#63

1,2,4-Trimethylbenzene

Concen: 0.688 ug/L

RT: 13.210 min Scan# 1976

Delta R.T. -0.000 min

Lab File: VD079863.D

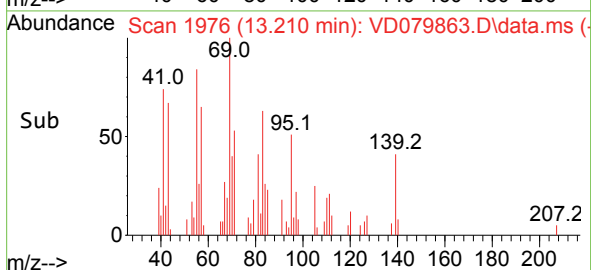
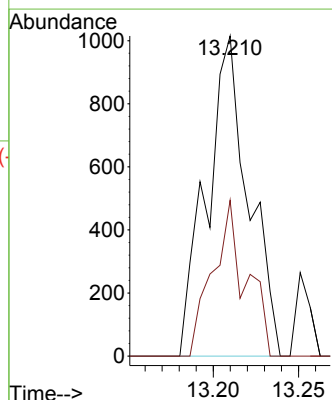
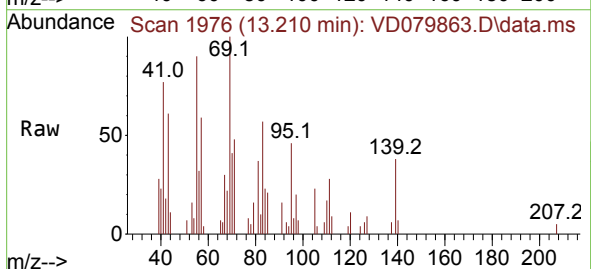
Acq: 18 Sep 2024 14:50

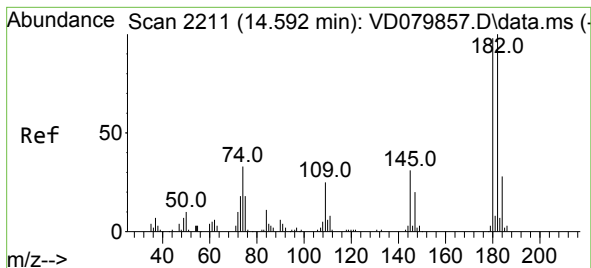
Tgt Ion:105 Resp: 1730

Ion Ratio Lower Upper

105 100

120 28.7 36.3 54.5#





#69

1,3,5-Trichlorobenzene

Concen: 0.159 ug/L

RT: 14.710 min Scan# 2211

Delta R.T. 0.117 min

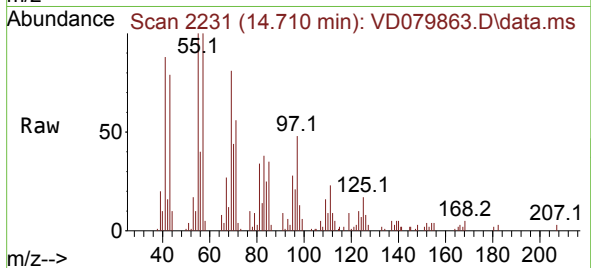
Lab File: VD079863.D

Acq: 18 Sep 2024 14:50

Instrument :

MSVOA\_D

ClientSampleId :



Tgt Ion:180 Resp: 131

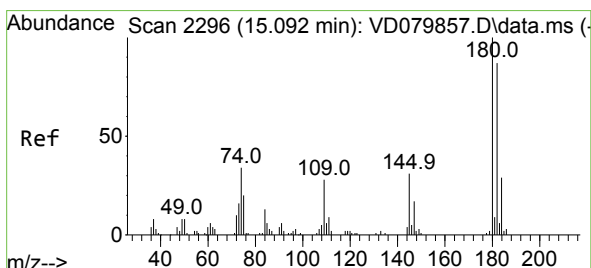
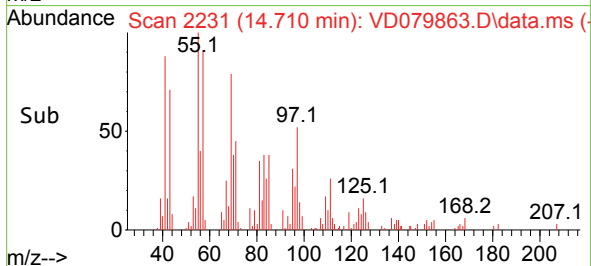
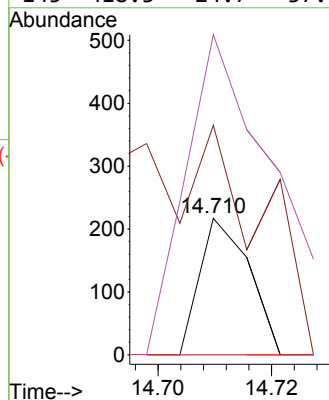
Ion Ratio Lower Upper

180 100

182 218.3 72.6 109.0#

184 0.0 24.2 36.2#

145 418.3 24.7 37.1#



#70

1,2,4-trichlorobenzene

Concen: 0.671 ug/L

RT: 15.086 min Scan# 2295

Delta R.T. -0.006 min

Lab File: VD079863.D

Acq: 18 Sep 2024 14:50

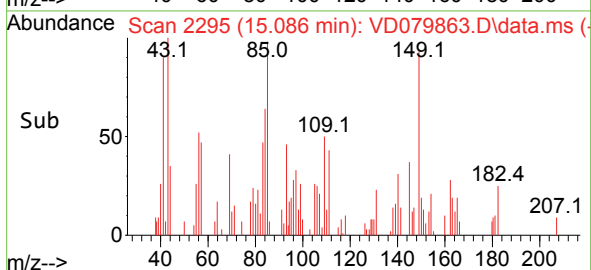
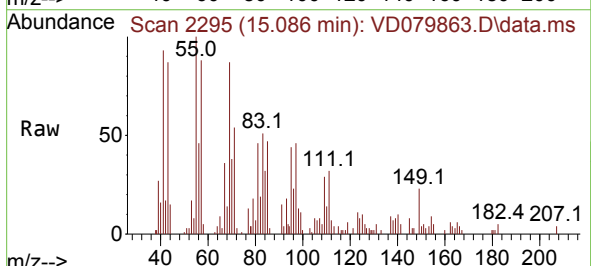
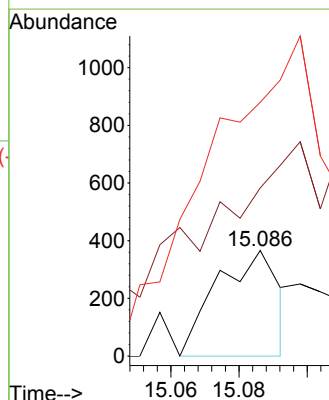
Tgt Ion:180 Resp: 464

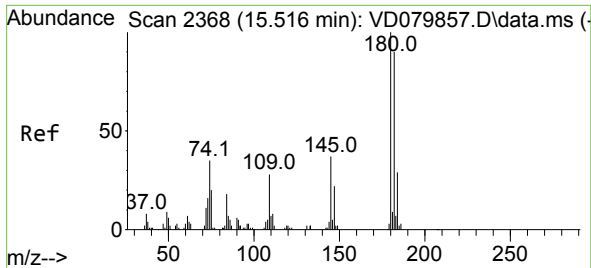
Ion Ratio Lower Upper

180 100

182 108.2 75.9 113.9

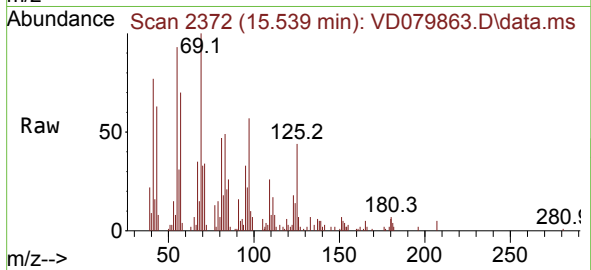
145 565.7 26.6 40.0#





#72  
 1,2,3-Trichlorobenzene  
 Concen: 1.624 ug/L  
 RT: 15.539 min Scan# 21  
 Delta R.T. 0.023 min  
 Lab File: VD079863.D  
 Acq: 18 Sep 2024 14:50

Instrument :  
 MSVOA\_D  
 ClientSampleId :



| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 180     | 100   |       |        |
| 182     | 37.4  | 74.1  | 111.1# |
| 145     | 177.1 | 26.4  | 39.6#  |

