

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD052122\  
 Data File : VD073238.D  
 Acq On : 21 May 2022 19:21  
 Operator : VA/SY  
 Sample : N2870-09  
 Misc : 5.04G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 P034-SS001-1824-01

Quant Time: May 22 01:33:39 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D051922S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 19 15:13:42 2022  
 Response via : Initial Calibration

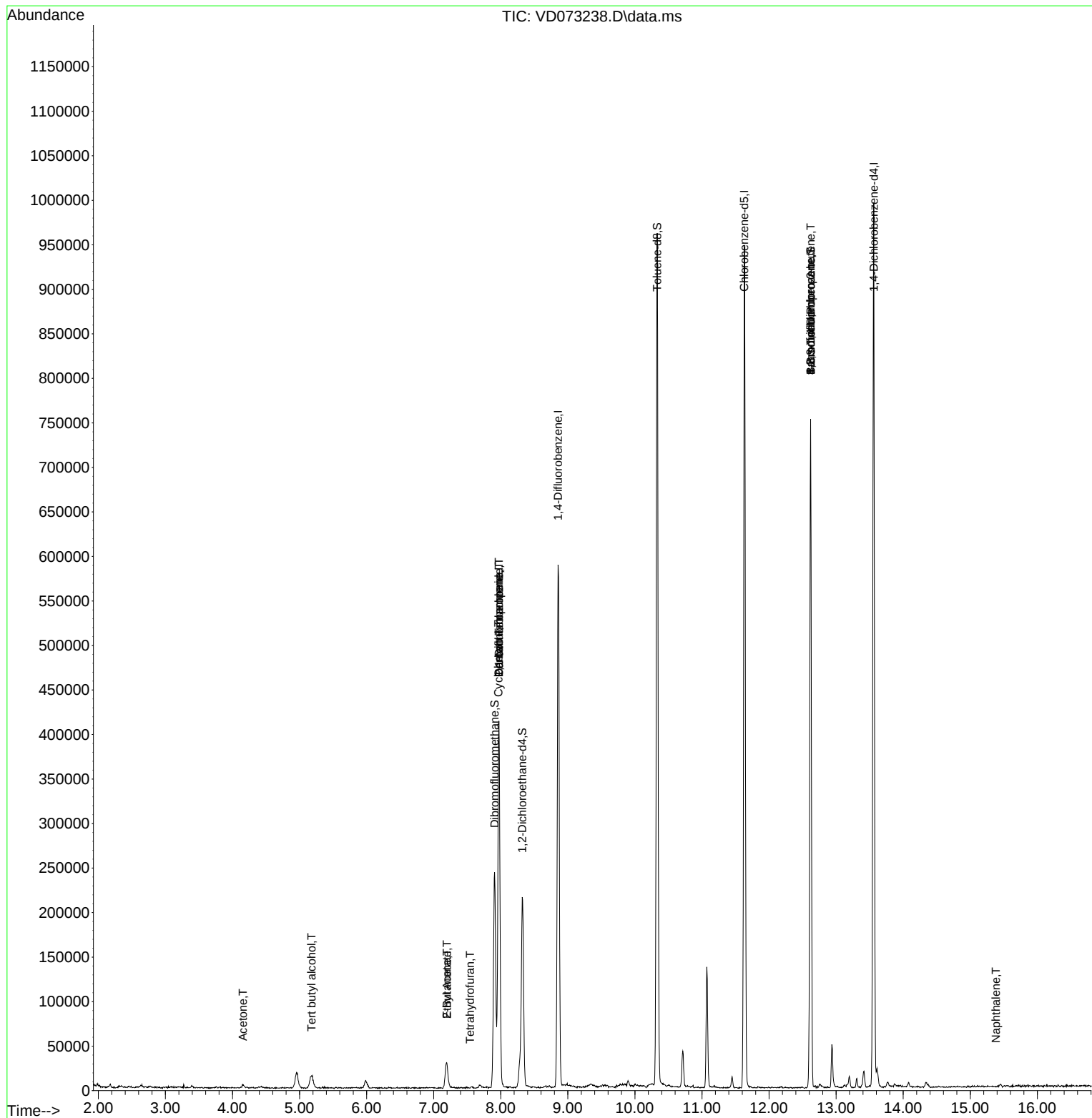
| Compound                      | R.T.           | QIon | Response            | Conc           | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|----------------|--------|----------|
| -----                         |                |      |                     |                |        |          |
| Internal Standards            |                |      |                     |                |        |          |
| 1) Pentafluorobenzene         | 7.973          | 168  | 291276              | 50.000         | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.855          | 114  | 513840              | 50.000         | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.631         | 117  | 548346              | 50.000         | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.561         | 152  | 258760              | 50.000         | ug/l   | 0.00     |
|                               |                |      |                     |                |        |          |
| System Monitoring Compounds   |                |      |                     |                |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.320          | 65   | 166178              | 51.624         | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 103.240% |                |        |          |
| 35) Dibromofluoromethane      | 7.908          | 113  | 177587              | 52.375         | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 104.760% |                |        |          |
| 50) Toluene-d8                | 10.332         | 98   | 651827              | 52.151         | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 49 - 140 |      | Recovery = 104.300% |                |        |          |
| 62) 4-Bromofluorobenzene      | 12.620         | 95   | 242407              | 55.264         | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 25 - 144 |      | Recovery = 110.520% |                |        |          |
|                               |                |      |                     |                |        |          |
| Target Compounds              |                |      |                     |                |        |          |
|                               |                |      |                     |                | Qvalue |          |
| 5) Bromomethane               | 2.767          | 94   | 713                 | Below Cal      |        | 96       |
| 11) Tert butyl alcohol        | 5.179          | 59   | 14086               | 28.204 ug/l #  |        | 74       |
| 16) Acetone                   | 4.155          | 43   | 6340                | 11.371 ug/l #  |        | 82       |
| 20) Methylene Chloride        | 4.955          | 84   | 13739               | Below Cal #    |        | 88       |
| 25) 2-Butanone                | 7.196          | 43   | 2312                | 2.834 ug/l     |        | 94       |
| 29) Tetrahydrofuran           | 7.543          | 42   | 880                 | 1.668 ug/l #   |        | 46       |
| 31) Cyclohexane               | 7.967          | 56   | 7198                | 1.280 ug/l #   |        | 3        |
| 36) 1,1-Dichloropropene       | 7.973          | 75   | 24576               | 4.819 ug/l #   |        | 50       |
| 37) Ethyl Acetate             | 7.196          | 43   | 2312                | 1.148 ug/l #   |        | 18       |
| 38) Carbon Tetrachloride      | 7.973          | 117  | 31782               | 6.148 ug/l #   |        | 18       |
| 71) Bromoform                 | 12.620         | 173  | 2481                | 1.155 ug/l #   |        | 1        |
| 76) 1,2,3-Trichloropropane    | 12.620         | 75   | 123581              | 48.675 ug/l #  |        | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.620         | 75   | 123581              | 116.855 ug/l # |        | 7        |
| 95) Naphthalene               | 15.384         | 128  | 98                  | 3.552 ug/l #   |        | 70       |
| -----                         |                |      |                     |                |        |          |

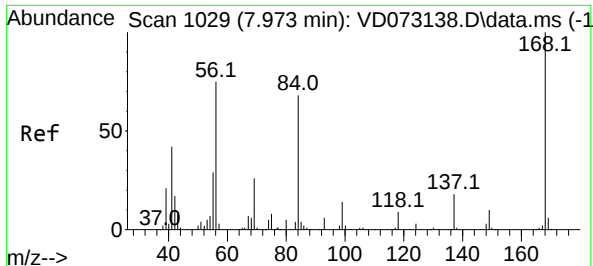
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_D  
ClientSampleId :  
P034-SS001-1824-01

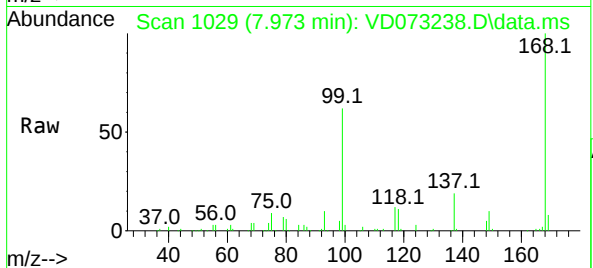
Quant Time: May 22 01:33:39 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D051922S.M  
Quant Title : SW846 8260  
QLast Update : Thu May 19 15:13:42 2022  
Response via : Initial Calibration



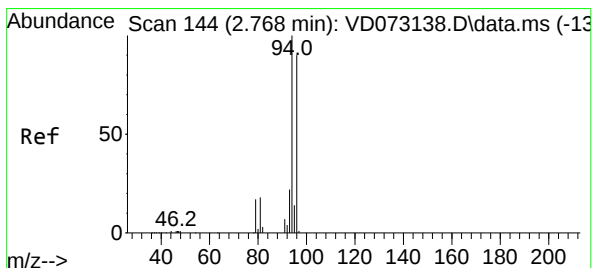
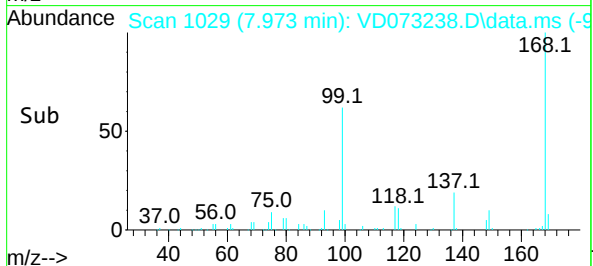
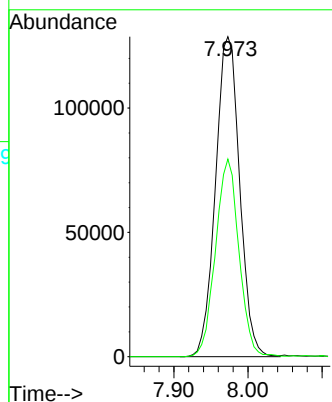


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. -0.000 min  
Lab File: VD073238.D  
Acq: 21 May 2022 19:21

Instrument :  
MSVOA\_D  
ClientSampleId :  
P034-SS001-1824-01

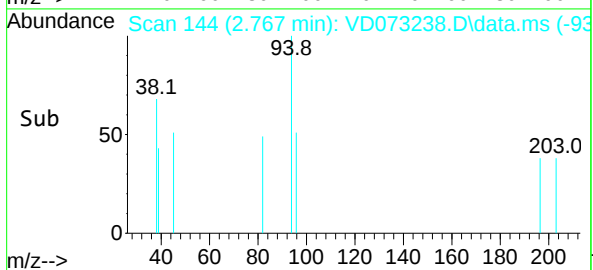
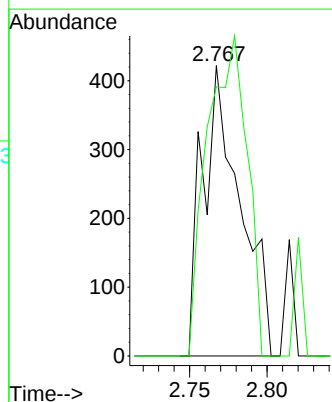
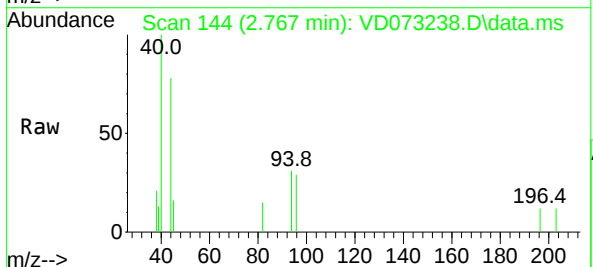


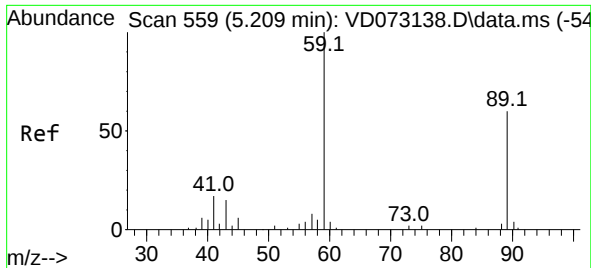
Tgt Ion:168 Resp: 291276  
Ion Ratio Lower Upper  
168 100  
99 61.8 49.8 74.6



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.767 min Scan# 144  
Delta R.T. -0.001 min  
Lab File: VD073238.D  
Acq: 21 May 2022 19:21

Tgt Ion: 94 Resp: 713  
Ion Ratio Lower Upper  
94 100  
96 92.7 77.6 116.4

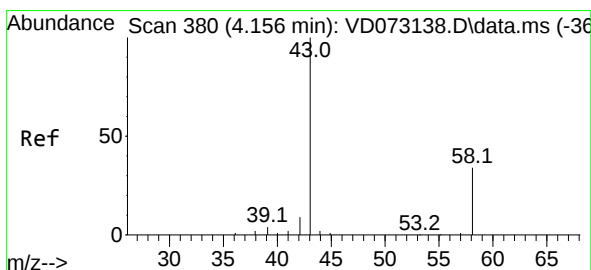
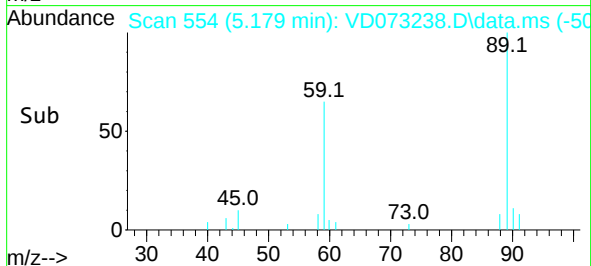
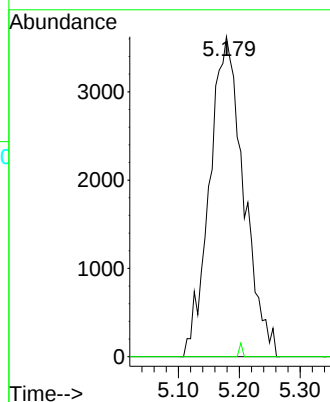
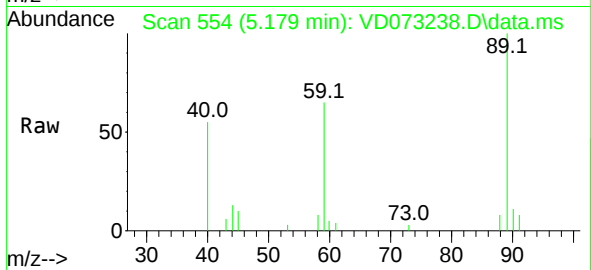




#11  
Tert butyl alcohol  
Concen: 28.204 ug/l  
RT: 5.179 min Scan# 51  
Delta R.T. -0.030 min  
Lab File: VD073238.D  
Acq: 21 May 2022 19:21

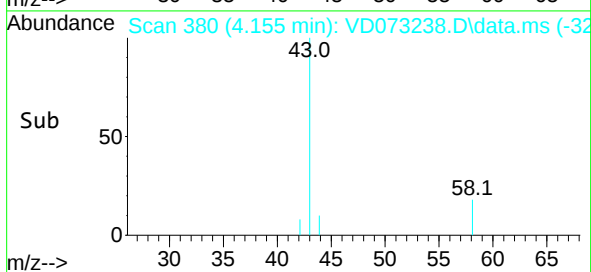
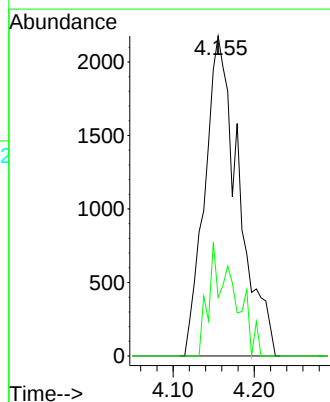
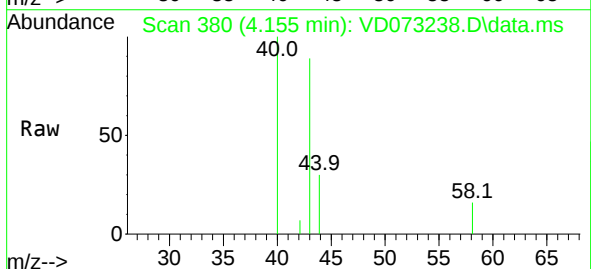
Instrument :  
MSVOA\_D  
ClientSampleId :  
P034-SS001-1824-01

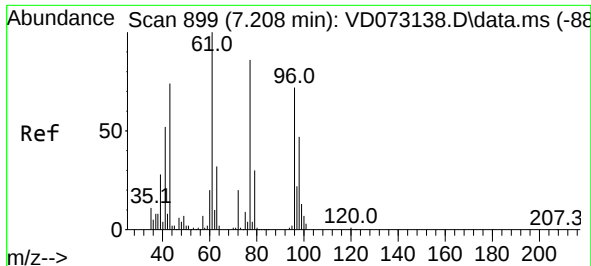
Tgt Ion: 59 Resp: 14086  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.8 11.6#



#16  
Acetone  
Concen: 11.371 ug/l  
RT: 4.155 min Scan# 380  
Delta R.T. -0.001 min  
Lab File: VD073238.D  
Acq: 21 May 2022 19:21

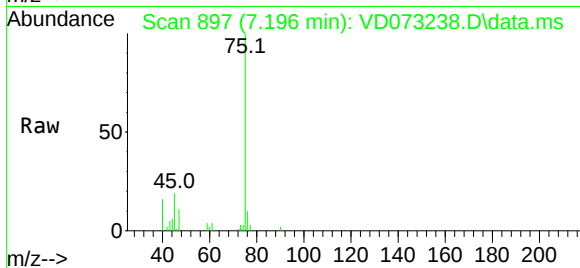
Tgt Ion: 43 Resp: 6340  
Ion Ratio Lower Upper  
43 100  
58 18.3 22.1 33.1#



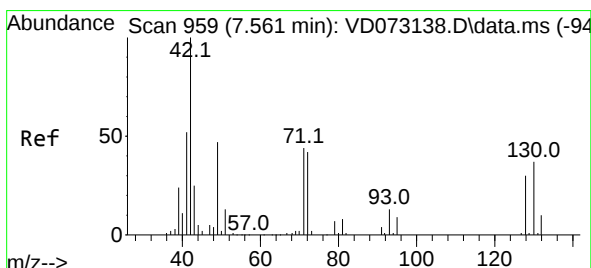
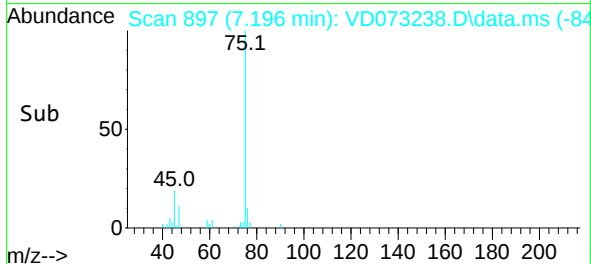
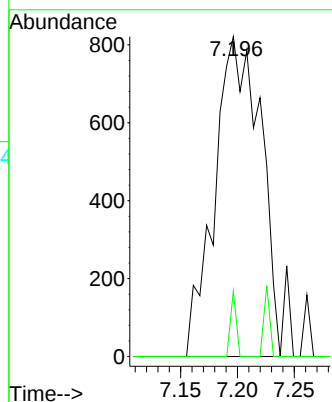


#25  
2-Butanone  
Concen: 2.834 ug/l  
RT: 7.196 min Scan# 897  
Delta R.T. -0.012 min  
Lab File: VD073238.D  
Acq: 21 May 2022 19:21

Instrument :  
MSVOA\_D  
ClientSampleId :  
P034-SS001-1824-01

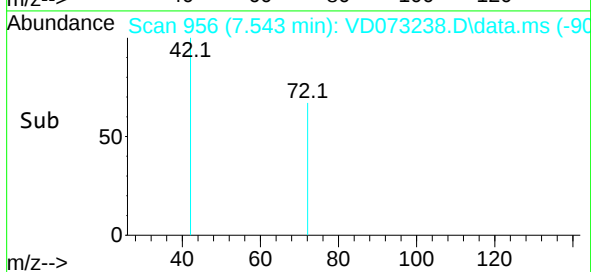
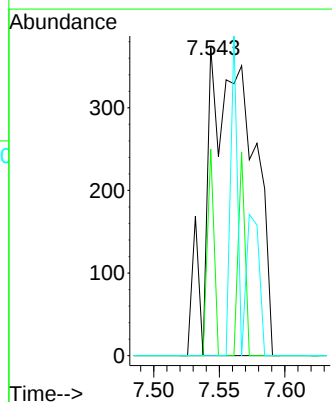
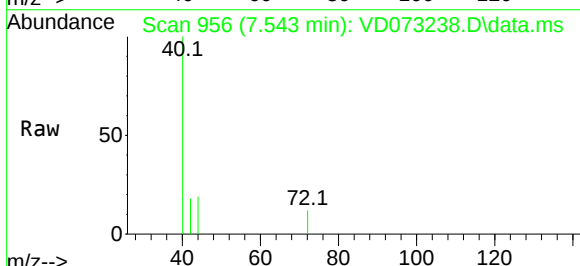


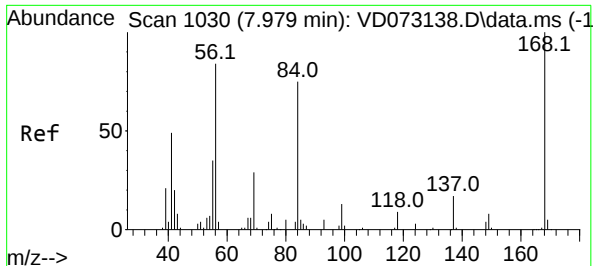
Tgt Ion: 43 Resp: 2312  
Ion Ratio Lower Upper  
43 100  
72 20.5 18.6 27.8



#29  
Tetrahydrofuran  
Concen: 1.668 ug/l  
RT: 7.543 min Scan# 956  
Delta R.T. -0.018 min  
Lab File: VD073238.D  
Acq: 21 May 2022 19:21

Tgt Ion: 42 Resp: 880  
Ion Ratio Lower Upper  
42 100  
72 10.0 30.7 46.1#  
71 0.0 28.6 43.0#





#31

Cyclohexane

Concen: 1.280 ug/l

RT: 7.967 min Scan# 1028

Delta R.T. -0.012 min

Lab File: VD073238.D

Acq: 21 May 2022 19:21

Instrument :

MSVOA\_D

ClientSampleId :

P034-SS001-1824-01

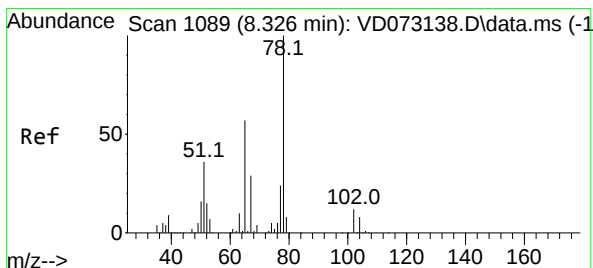
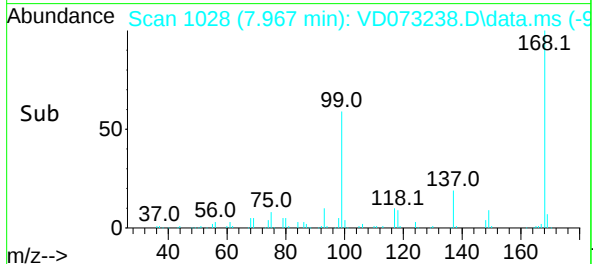
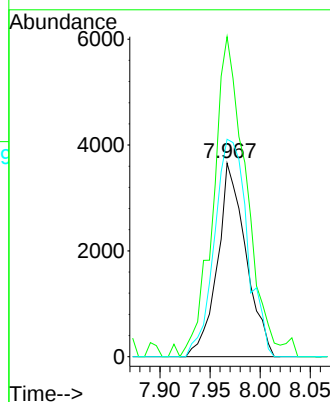
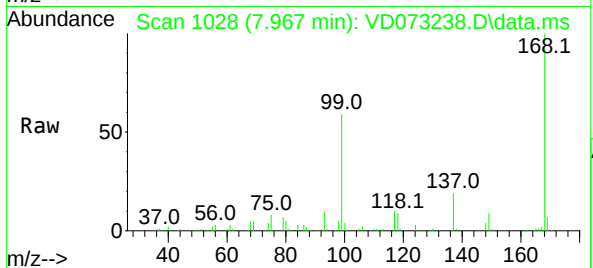
Tgt Ion: 56 Resp: 7198

Ion Ratio Lower Upper

56 100

69 165.4 25.4 38.2#

84 112.4 63.0 94.4#



#33

1,2-Dichloroethane-d4

Concen: 51.624 ug/l

RT: 8.320 min Scan# 1088

Delta R.T. -0.006 min

Lab File: VD073238.D

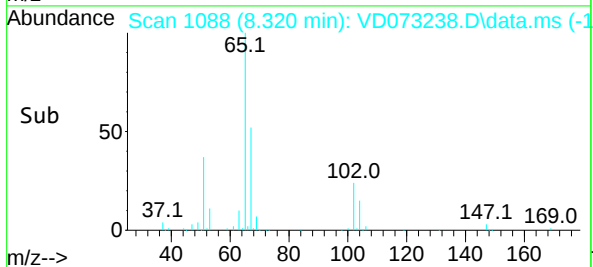
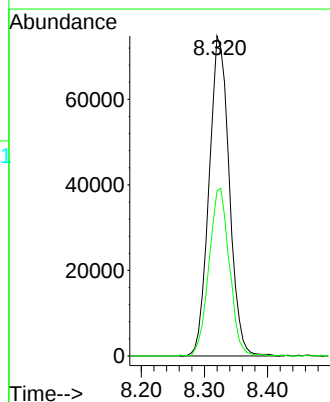
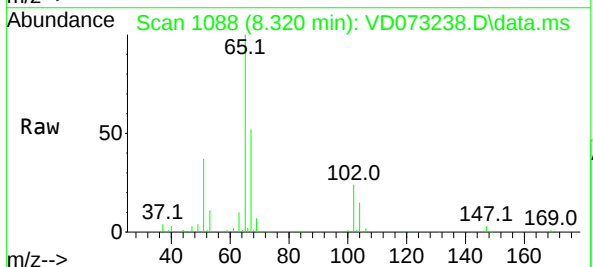
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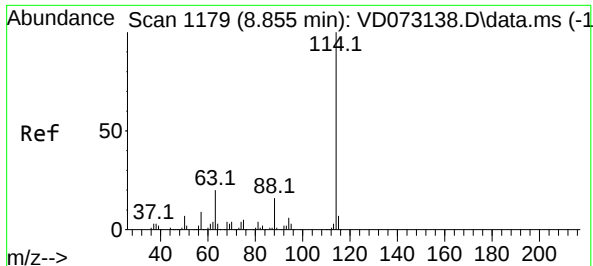
Tgt Ion: 65 Resp: 166178

Ion Ratio Lower Upper

65 100

67 52.9 0.0 101.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.855 min Scan# 1179

Delta R.T. 0.000 min

Lab File: VD073238.D

Acq: 21 May 2022 19:21

Instrument :

MSVOA\_D

ClientSampleId :

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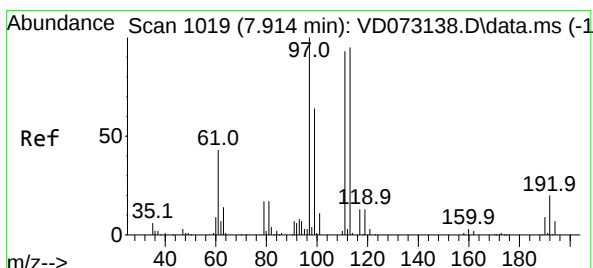
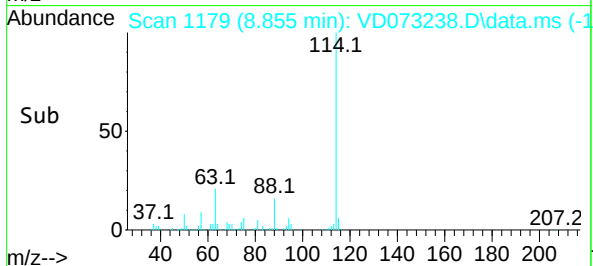
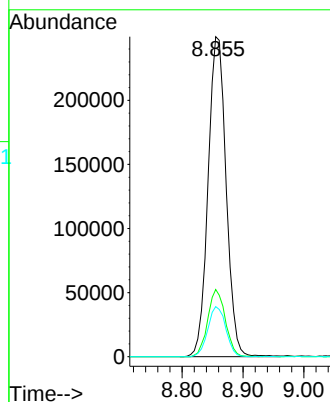
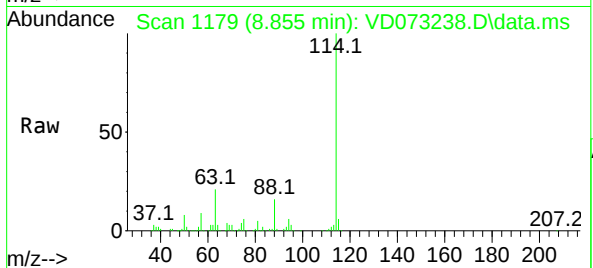
Tgt Ion:114 Resp: 513840

Ion Ratio Lower Upper

114 100

63 21.0 0.0 46.6

88 15.7 0.0 33.2



#35

Dibromofluoromethane

Concen: 52.375 ug/l

RT: 7.908 min Scan# 1018

Delta R.T. -0.006 min

Lab File: VD073238.D

Acq: 21 May 2022 19:21

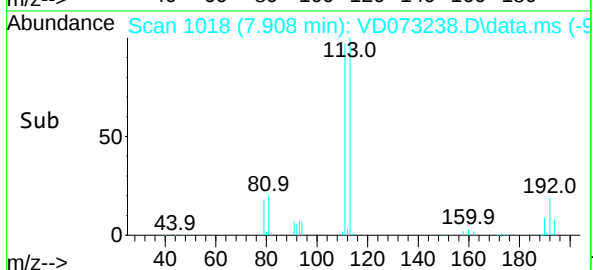
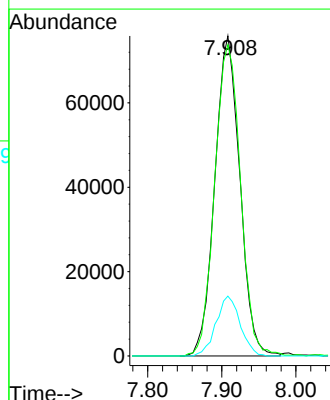
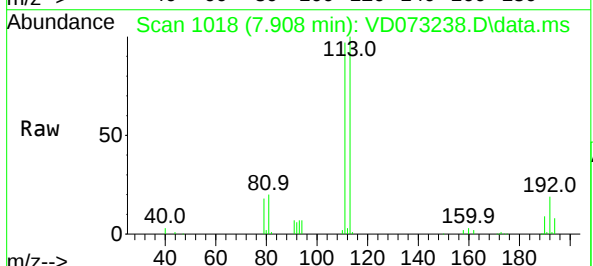
Tgt Ion:113 Resp: 177587

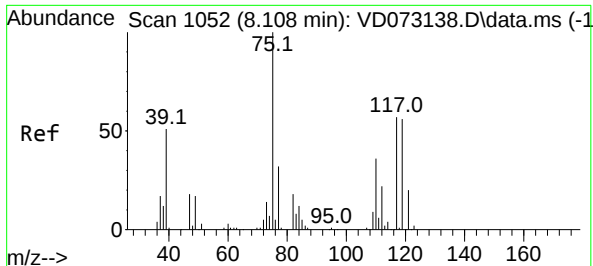
Ion Ratio Lower Upper

113 100

111 100.5 83.8 125.6

192 18.0 14.6 21.8





#36

1,1-Dichloropropene

Concen: 4.819 ug/l

RT: 7.973 min Scan# 1029

Delta R.T. -0.135 min

Lab File: VD073238.D

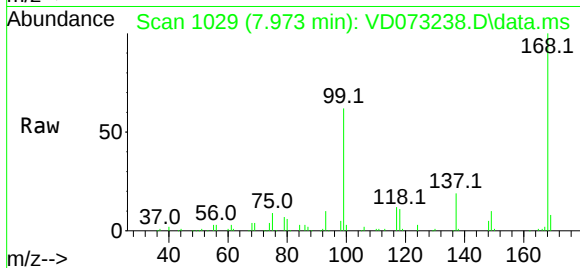
Acq: 21 May 2022 19:21

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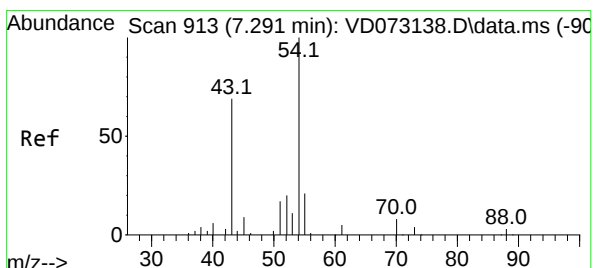
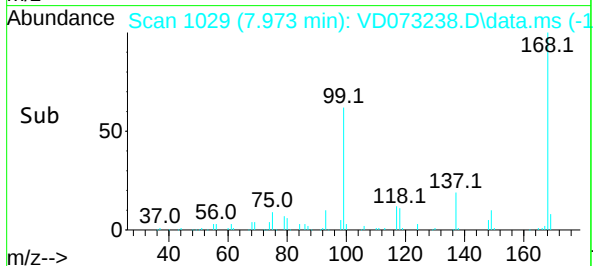
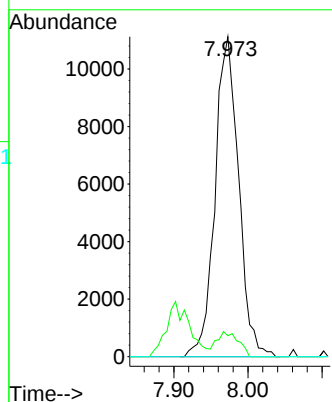
Tgt Ion: 75 Resp: 24576

Ion Ratio Lower Upper

75 100

110 7.0 16.4 49.1#

77 0.0 24.2 36.2#



#37

Ethyl Acetate

Concen: 1.148 ug/l

RT: 7.196 min Scan# 897

Delta R.T. -0.095 min

Lab File: VD073238.D

Acq: 21 May 2022 19:21

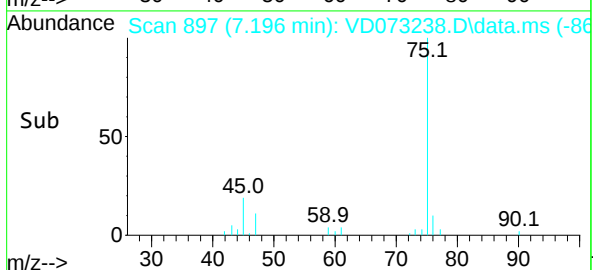
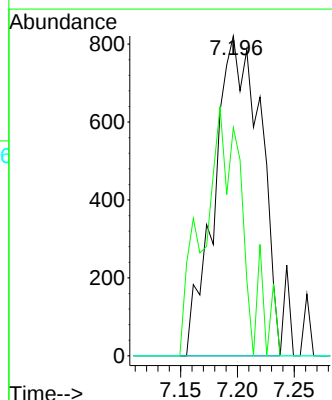
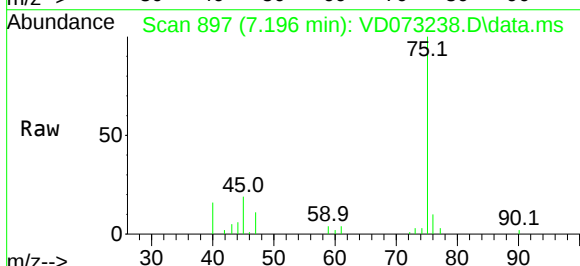
Tgt Ion: 43 Resp: 2312

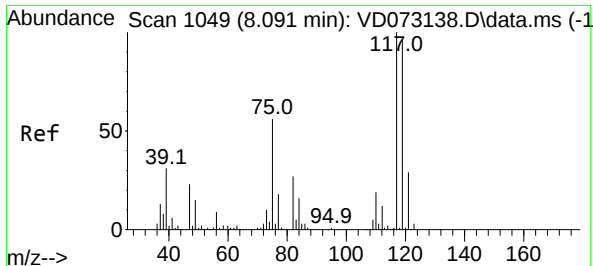
Ion Ratio Lower Upper

43 100

61 60.2 9.8 14.8#

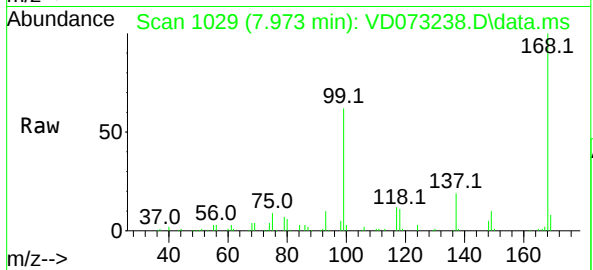
70 0.0 6.9 10.3#



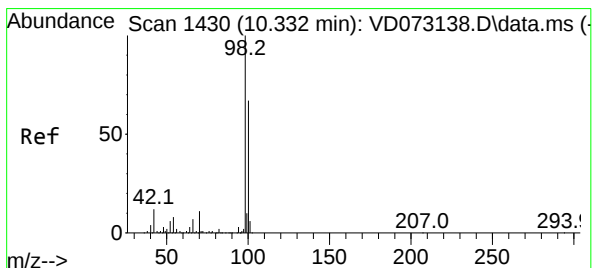
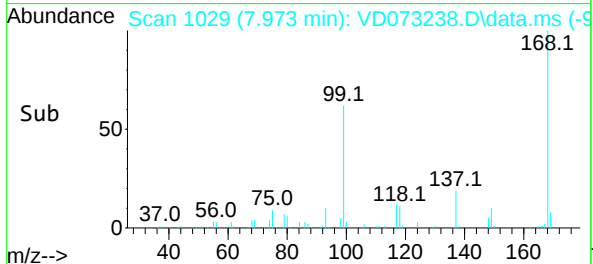
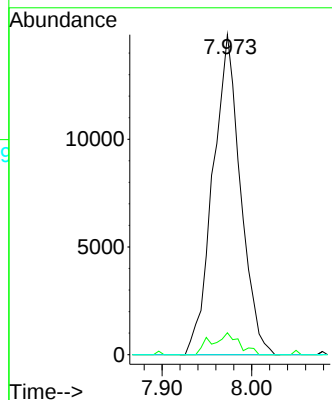


#38  
Carbon Tetrachloride  
Concen: 6.148 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. -0.118 min  
Lab File: VD073238.D  
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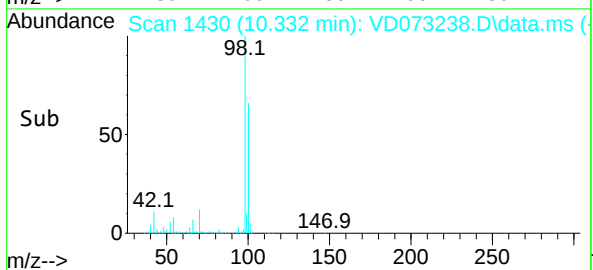
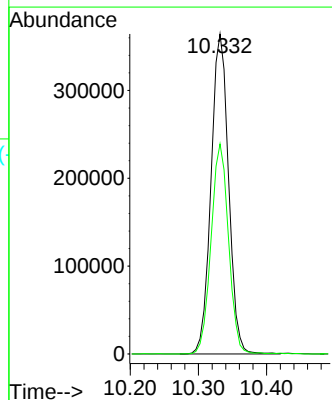
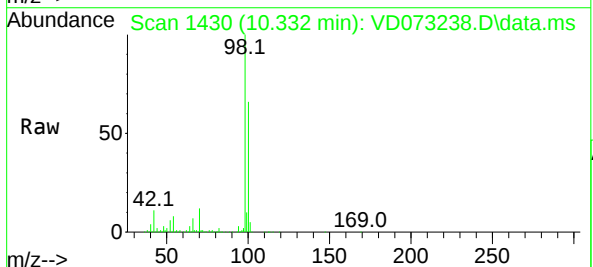


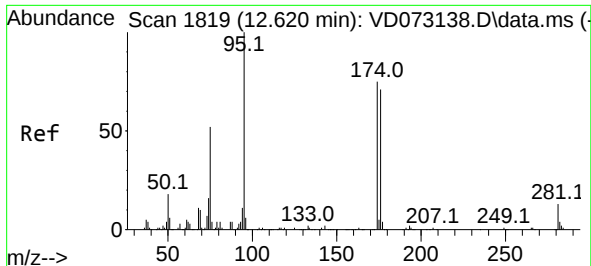
Tgt Ion: 117 Resp: 31782  
Ion Ratio Lower Upper  
117 100  
119 6.8 75.8 113.6#  
121 0.0 24.5 36.7#



#50  
Toluene-d8  
Concen: 52.151 ug/l  
RT: 10.332 min Scan# 1430  
Delta R.T. -0.000 min  
Lab File: VD073238.D  
Acq: 21 May 2022 19:21

Tgt Ion: 98 Resp: 651827  
Ion Ratio Lower Upper  
98 100  
100 65.4 52.4 78.6





#62

4-Bromofluorobenzene

Concen: 55.264 ug/l

RT: 12.620 min Scan# 1819

Delta R.T. -0.000 min

Lab File: VD073238.D

Acq: 21 May 2022 19:21

Instrument :

MSVOA\_D

ClientSampleId :

P034-SS001-1824-01

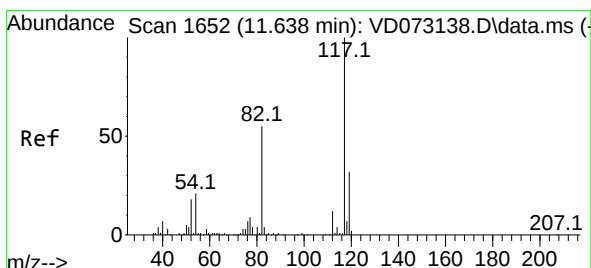
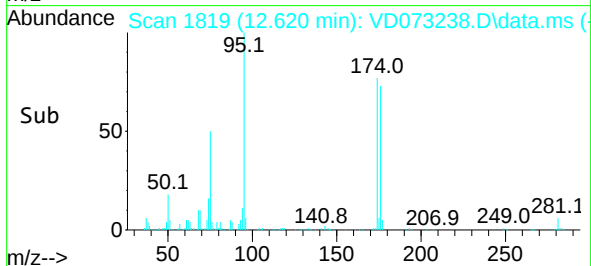
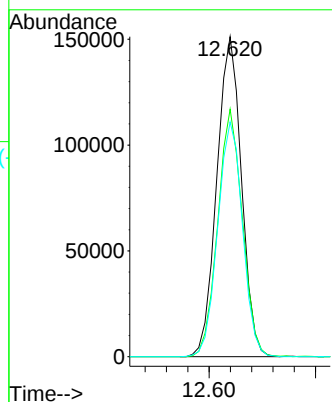
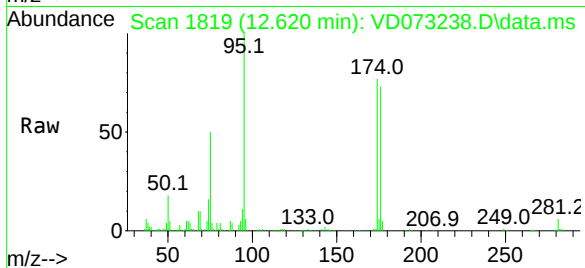
Tgt Ion: 95 Resp: 242407

Ion Ratio Lower Upper

95 100

174 77.3 0.0 152.8

176 73.7 0.0 145.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.631 min Scan# 1651

Delta R.T. -0.007 min

Lab File: VD073238.D

Acq: 21 May 2022 19:21

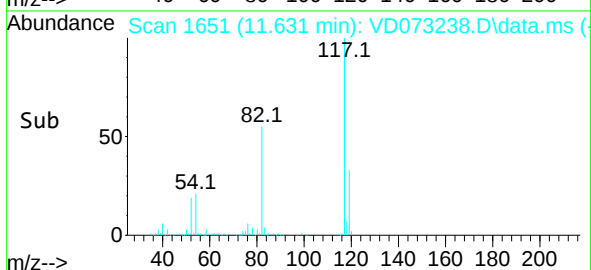
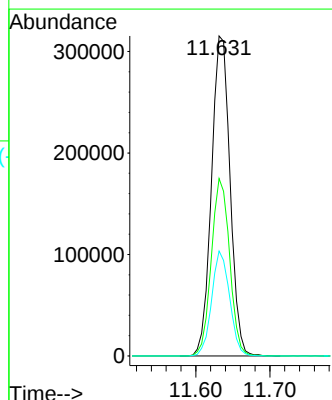
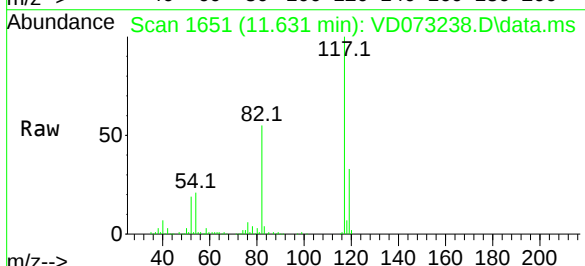
Tgt Ion: 117 Resp: 548346

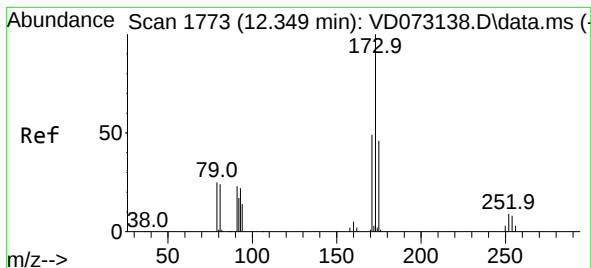
Ion Ratio Lower Upper

117 100

82 55.4 45.3 67.9

119 32.8 26.6 40.0





#71

Bromoform

Concen: 1.155 ug/l

RT: 12.620 min Scan# 1819

Delta R.T. 0.271 min

Lab File: VD073238.D

Acq: 21 May 2022 19:21

Instrument :

MSVOA\_D

ClientSampleId :

P034-SS001-1824-01

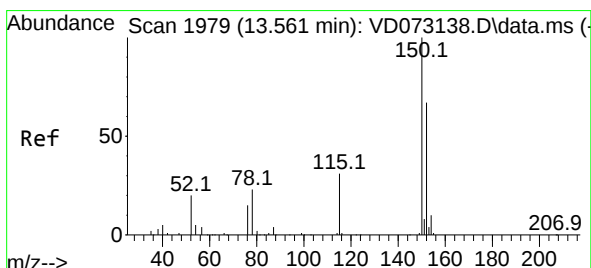
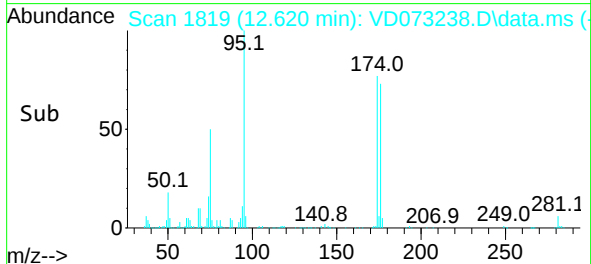
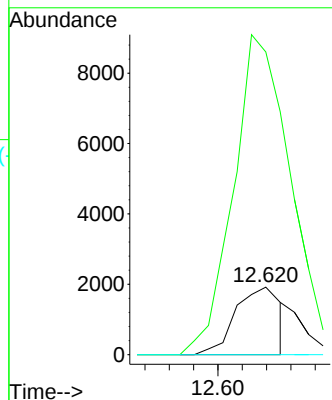
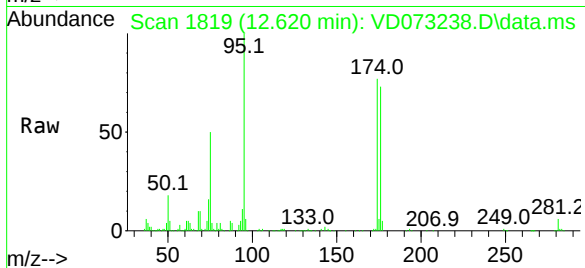
Tgt Ion:173 Resp: 2481

Ion Ratio Lower Upper

173 100

175 484.9 23.9 71.8#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.561 min Scan# 1979

Delta R.T. -0.000 min

Lab File: VD073238.D

Acq: 21 May 2022 19:21

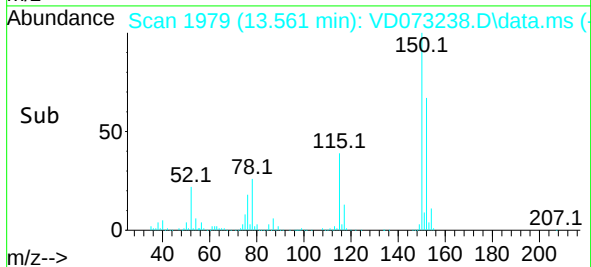
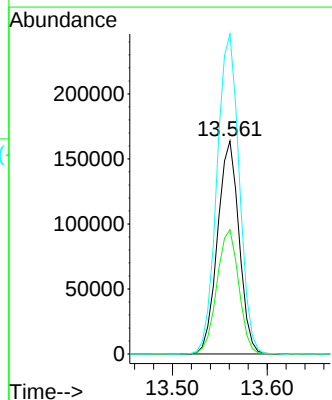
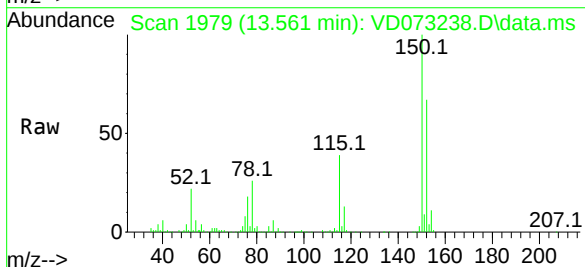
Tgt Ion:152 Resp: 258760

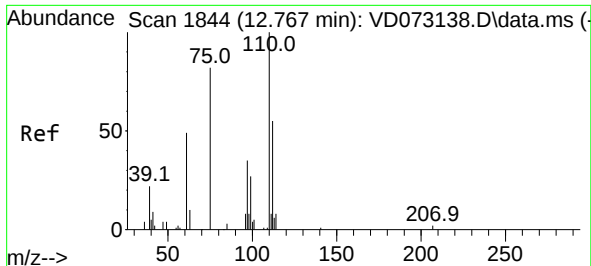
Ion Ratio Lower Upper

152 100

115 59.3 31.3 93.8

150 155.4 0.0 348.6

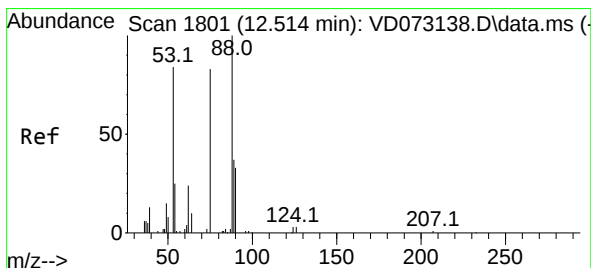
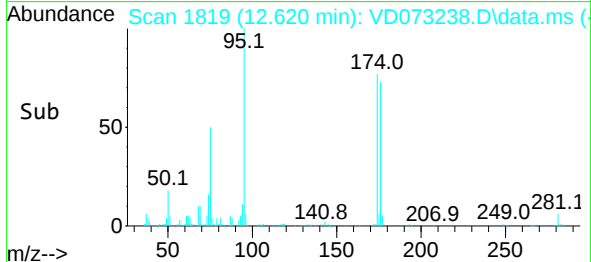
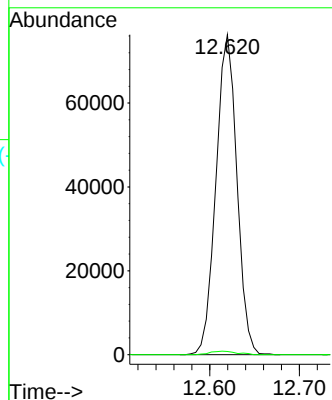
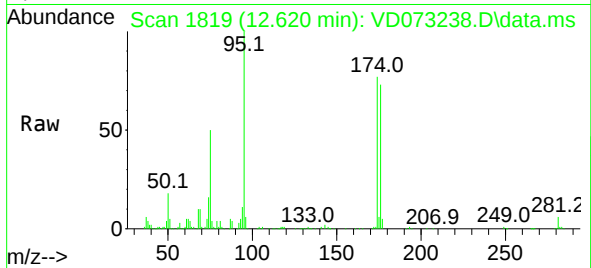




#76  
1,2,3-Trichloropropane  
Concen: 48.675 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. -0.147 min  
Lab File: VD073238.D  
Acq: 21 May 2022 19:21

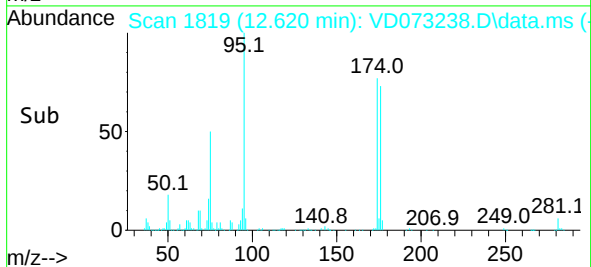
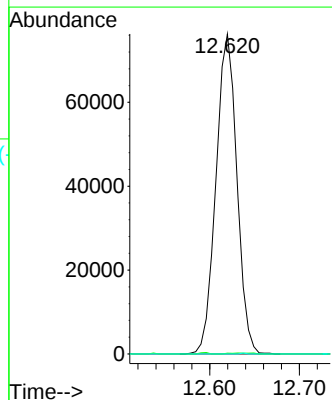
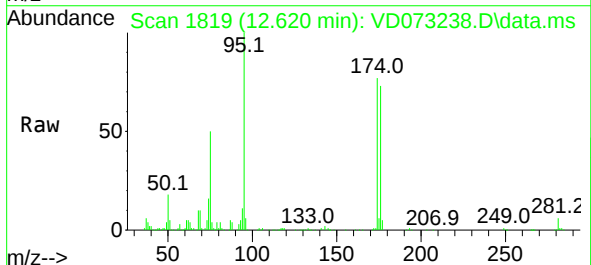
Instrument :  
MSVOA\_D  
ClientSampleId :  
P034-SS001-1824-01

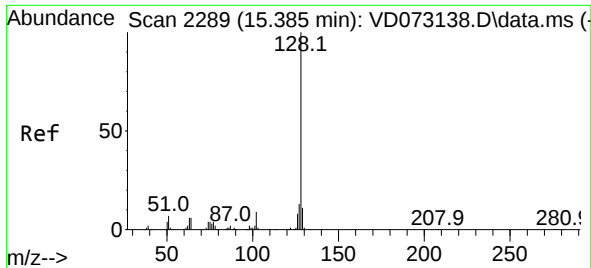
Tgt Ion: 75 Resp: 123581  
Ion Ratio Lower Upper  
75 100  
77 1.4 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 116.855 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. 0.106 min  
Lab File: VD073238.D  
Acq: 21 May 2022 19:21

Tgt Ion: 75 Resp: 123581  
Ion Ratio Lower Upper  
75 100  
53 0.0 86.5 129.7#  
89 0.0 33.9 50.9#





#95

Naphthalene

Concen: 3.552 ug/l

RT: 15.384 min Scan# 21

Delta R.T. -0.001 min

Lab File: VD073238.D

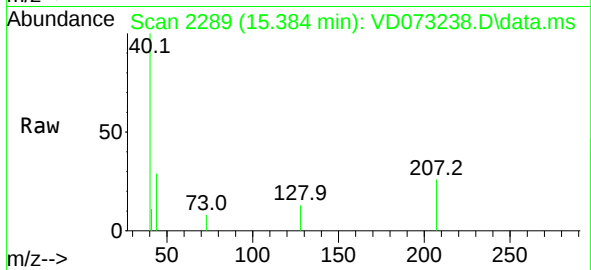
Acq: 21 May 2022 19:21

Instrument :

MSVOA\_D

ClientSampleId :

P034-SS001-1824-01



Tgt Ion:128 Resp: 98

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.4 12.6#

