

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD111122\  
 Data File : VD074919.D  
 Acq On : 12 Nov 2022 06:29  
 Operator : VA/SY  
 Sample : N5506-07RE  
 Misc : 4.91G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 46 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 TP-8

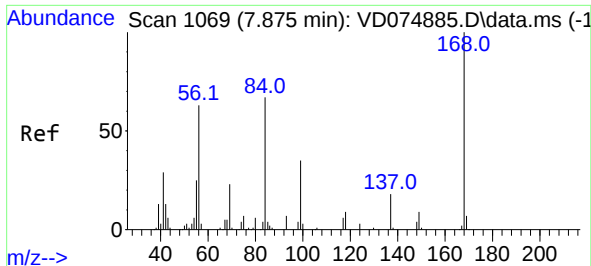
Quant Time: Nov 14 01:00:27 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D111122S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Nov 14 00:51:58 2022  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response            | Conc         | Units | Dev(Min) |
|-------------------------------|----------------|------|---------------------|--------------|-------|----------|
| -----                         |                |      |                     |              |       |          |
| Internal Standards            |                |      |                     |              |       |          |
| 1) Pentafluorobenzene         | 7.875          | 168  | 168181              | 50.000       | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.781          | 114  | 271839              | 50.000       | ug/l  | 0.00     |
| 63) Chlorobenzene-d5          | 11.581         | 117  | 250170              | 50.000       | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.522         | 152  | 107238              | 50.000       | ug/l  | 0.00     |
|                               |                |      |                     |              |       |          |
| System Monitoring Compounds   |                |      |                     |              |       |          |
| 33) 1,2-Dichloroethane-d4     | 8.228          | 65   | 82553               | 77.082       | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 154.160% |              |       |          |
| 35) Dibromofluoromethane      | 7.805          | 113  | 119077              | 71.061       | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 142.120% |              |       |          |
| 50) Toluene-d8                | 10.269         | 98   | 376881              | 68.278       | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 49 - 140 |      | Recovery = 136.560% |              |       |          |
| 62) 4-Bromofluorobenzene      | 12.575         | 95   | 100998              | 59.587       | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 25 - 144 |      | Recovery = 119.180% |              |       |          |
|                               |                |      |                     |              |       |          |
| Target Compounds              |                |      |                     |              |       | Qvalue   |
| 3) Chloromethane              | 2.146          | 50   | 507                 | Below Cal    |       | 98       |
| 5) Bromomethane               | 2.699          | 94   | 754                 | Below Cal    | #     | 76       |
| 10) Methyl Iodide             | 4.164          | 142  | 274                 | 4.890 ug/l   | #     | 43       |
| 11) Tert butyl alcohol        | 5.058          | 59   | 121                 | Below Cal    | #     | 84       |
| 16) Acetone                   | 4.022          | 43   | 1050                | 3.782 ug/l   |       | 92       |
| 20) Methylene Chloride        | 4.799          | 84   | 26889               | Below Cal    |       | 98       |
| 25) 2-Butanone                | 7.075          | 43   | 1054                | 2.903 ug/l   | #     | 42       |
| 31) Cyclohexane               | 7.875          | 56   | 2809                | 1.146 ug/l   | #     | 1        |
| 36) 1,1-Dichloropropene       | 7.869          | 75   | 11609               | 4.714 ug/l   | #     | 48       |
| 37) Ethyl Acetate             | 7.075          | 43   | 1054                | 1.275 ug/l   | #     | 1        |
| 38) Carbon Tetrachloride      | 7.881          | 117  | 15437               | 6.659 ug/l   | #     | 16       |
| 51) 4-Methyl-2-Pentanone      | 10.269         | 43   | 1252                | 1.804 ug/l   | #     | 1        |
| 76) 1,2,3-Trichloropropane    | 12.575         | 75   | 49430               | 55.110 ug/l  | #     | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.575         | 75   | 49430               | 135.571 ug/l | #     | 17       |
| -----                         |                |      |                     |              |       |          |

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

Quant Time: Nov 14 01:00:27 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D111122S.M  
Quant Title : SW846 8260  
QLast Update : Mon Nov 14 00:51:58 2022  
Response via : Initial Calibration

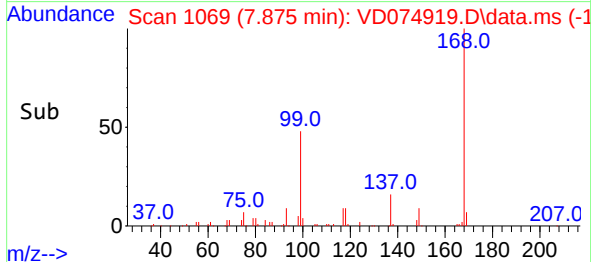
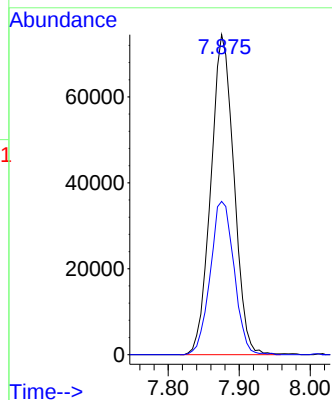
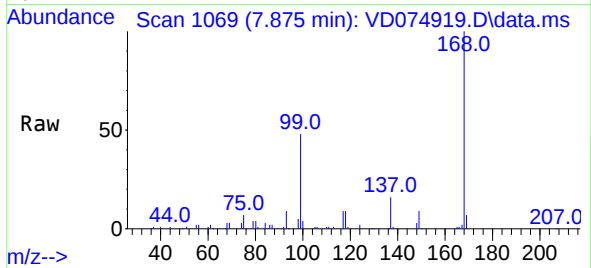




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.875 min Scan# 1069  
Delta R.T. 0.000 min  
Lab File: VD074919.D  
Acq: 12 Nov 2022 06:29

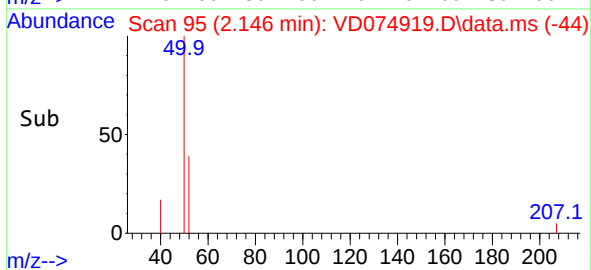
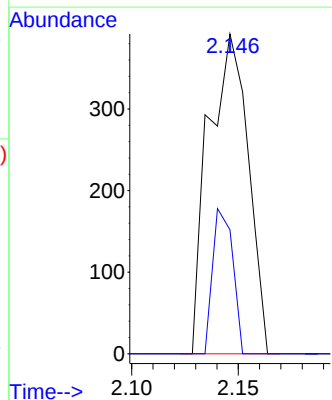
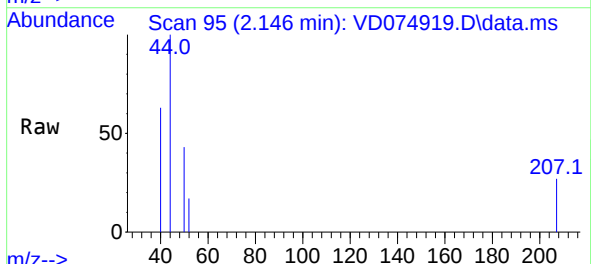
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-8

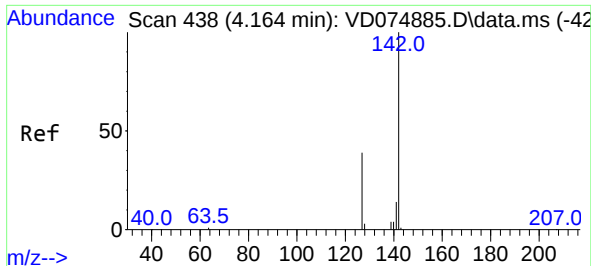
Tgt Ion:168 Resp: 168181  
Ion Ratio Lower Upper  
168 100  
99 47.9 40.9 61.3



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.146 min Scan# 95  
Delta R.T. 0.000 min  
Lab File: VD074919.D  
Acq: 12 Nov 2022 06:29

Tgt Ion: 50 Resp: 507  
Ion Ratio Lower Upper  
50 100  
52 38.8 30.0 45.0

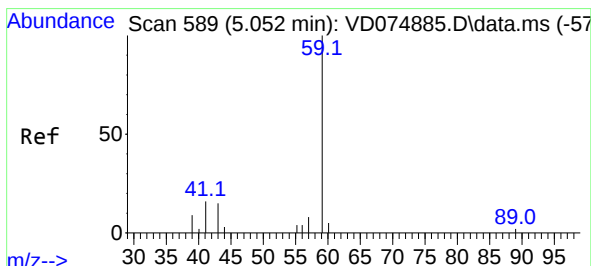
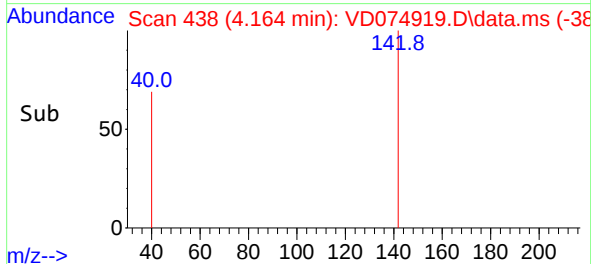
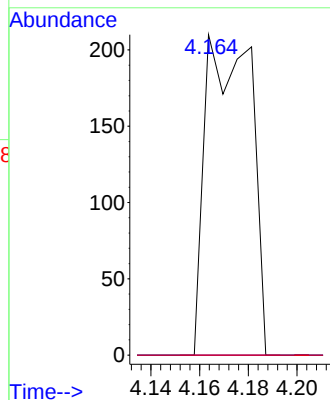
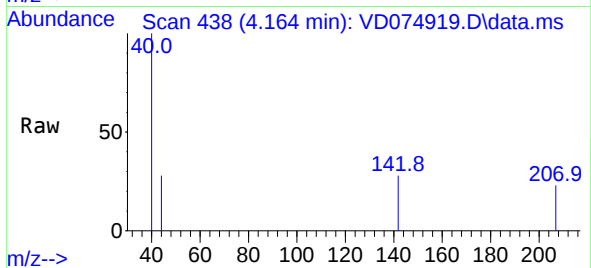




#10  
Methyl Iodide  
Concen: 4.890 ug/l  
RT: 4.164 min Scan# 41  
Delta R.T. -0.000 min  
Lab File: VD074919.D  
Acq: 12 Nov 2022 06:29

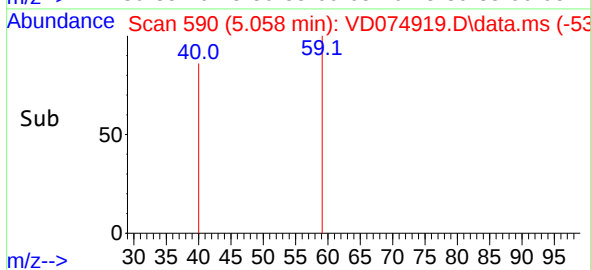
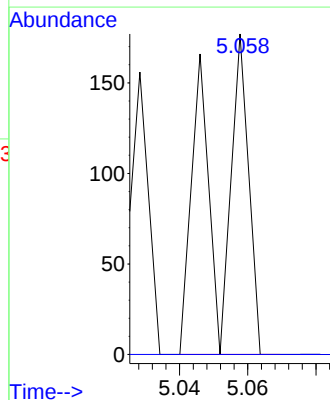
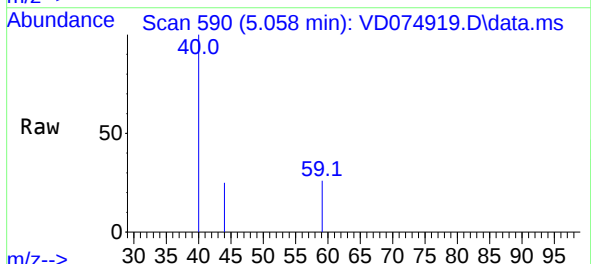
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-8

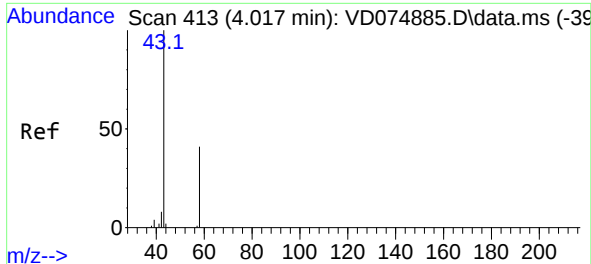
Tgt Ion:142 Resp: 274  
Ion Ratio Lower Upper  
142 100  
127 0.0 31.9 47.9#  
141 0.0 11.4 17.2#



#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 5.058 min Scan# 590  
Delta R.T. 0.006 min  
Lab File: VD074919.D  
Acq: 12 Nov 2022 06:29

Tgt Ion: 59 Resp: 121  
Ion Ratio Lower Upper  
59 100  
57 0.0 4.4 6.6#





#16

Acetone

Concen: 3.782 ug/l

RT: 4.022 min Scan# 41

Delta R.T. 0.005 min

Lab File: VD074919.D

Acq: 12 Nov 2022 06:29

Instrument :

MSVOA\_D

ClientSampleId :

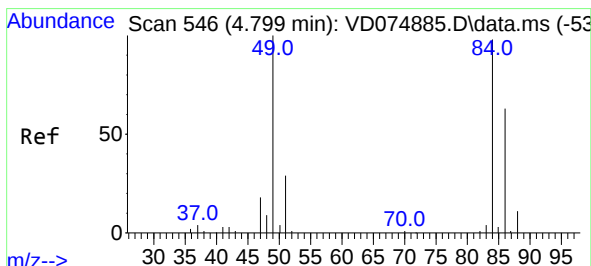
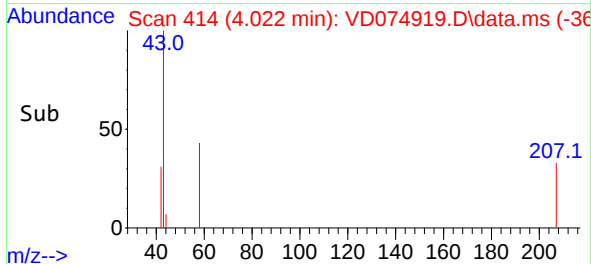
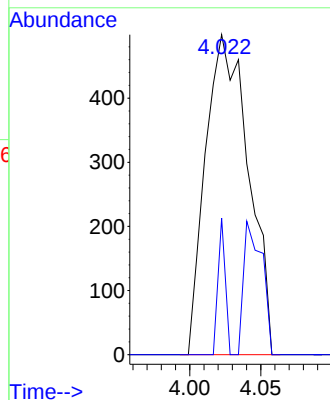
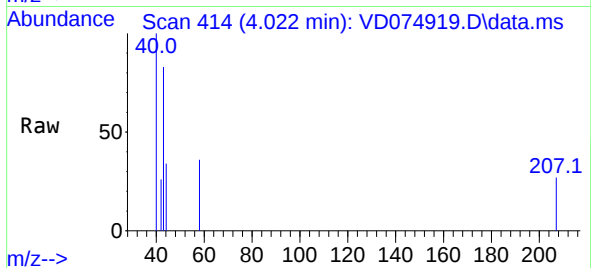
TP-8

Tgt Ion: 43 Resp: 1050

Ion Ratio Lower Upper

43 100

58 42.7 30.2 45.2



#20

Methylene Chloride

Concen: Below Cal

RT: 4.799 min Scan# 546

Delta R.T. -0.000 min

Lab File: VD074919.D

Acq: 12 Nov 2022 06:29

Tgt Ion: 84 Resp: 26889

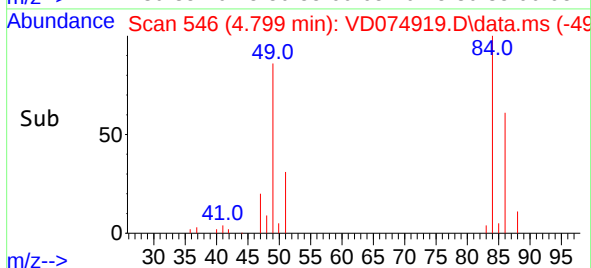
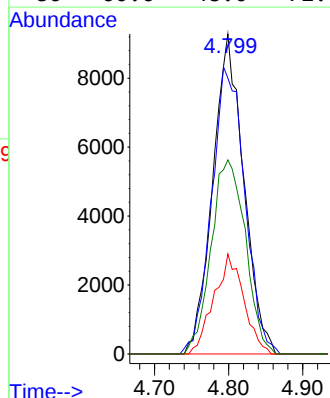
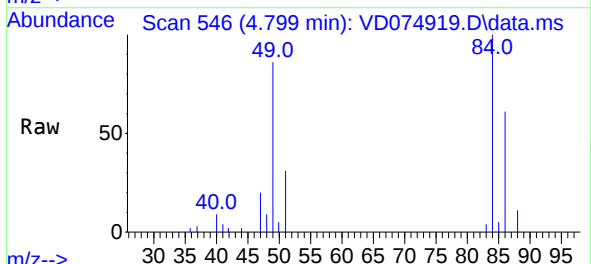
Ion Ratio Lower Upper

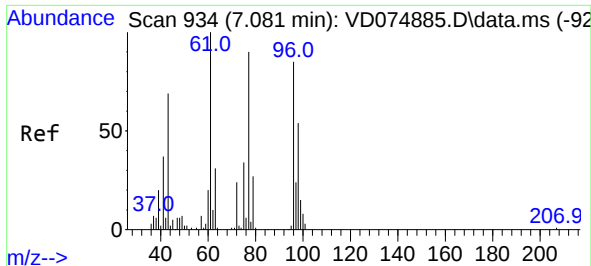
84 100

49 86.2 68.0 102.0

51 31.3 23.2 34.8

86 60.6 48.0 72.0

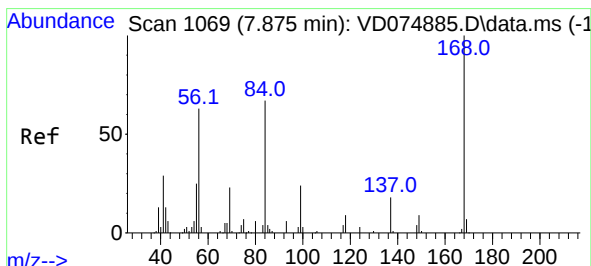
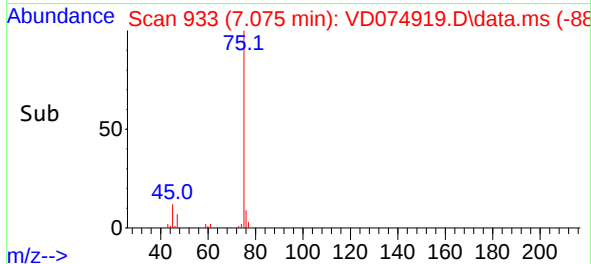
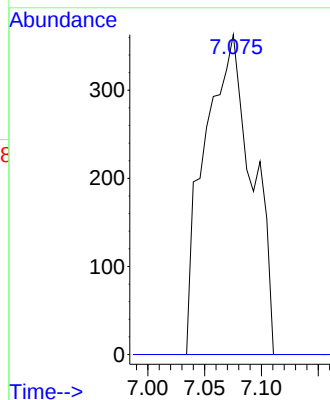
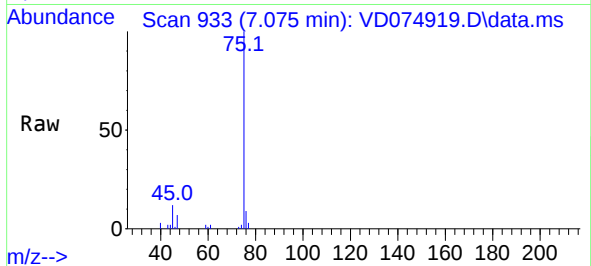




#25  
2-Butanone  
Concen: 2.903 ug/l  
RT: 7.075 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VD074919.D  
Acq: 12 Nov 2022 06:29

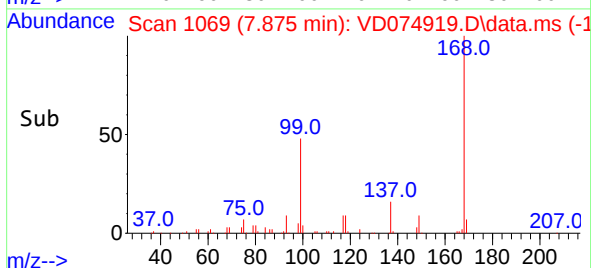
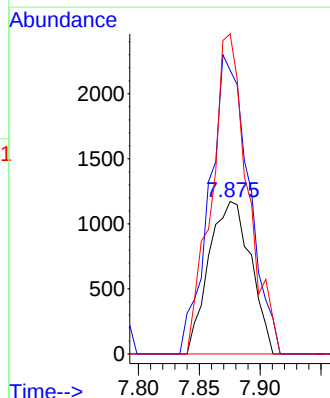
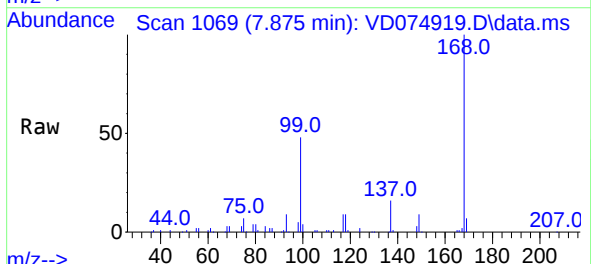
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-8

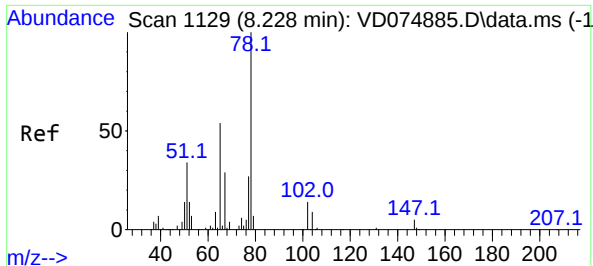
Tgt Ion: 43 Resp: 1054  
Ion Ratio Lower Upper  
43 100  
72 0.0 25.8 38.8#



#31  
Cyclohexane  
Concen: 1.146 ug/l  
RT: 7.875 min Scan# 1069  
Delta R.T. 0.000 min  
Lab File: VD074919.D  
Acq: 12 Nov 2022 06:29

Tgt Ion: 56 Resp: 2809  
Ion Ratio Lower Upper  
56 100  
69 186.1 29.2 43.8#  
84 209.9 83.4 125.2#





#33

1,2-Dichloroethane-d4

Concen: 77.082 ug/l

RT: 8.228 min Scan# 1129

Delta R.T. 0.000 min

Lab File: VD074919.D

Acq: 12 Nov 2022 06:29

Instrument :

MSVOA\_D

ClientSampleId :

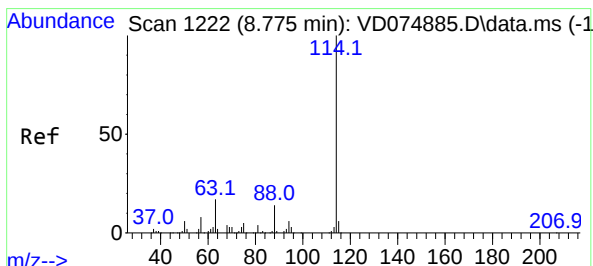
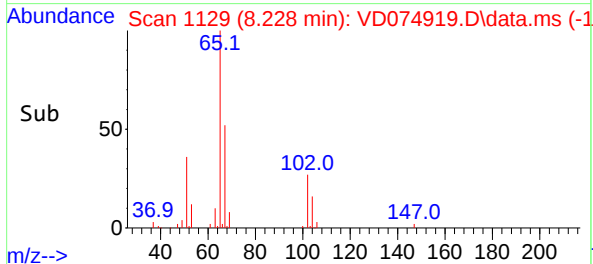
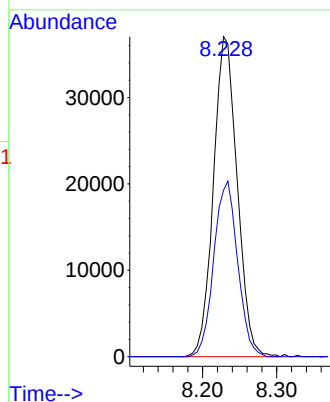
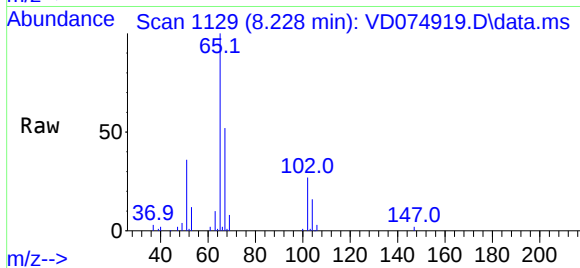
TP-8

Tgt Ion: 65 Resp: 82553

Ion Ratio Lower Upper

65 100

67 54.8 0.0 110.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.781 min Scan# 1223

Delta R.T. 0.006 min

Lab File: VD074919.D

Acq: 12 Nov 2022 06:29

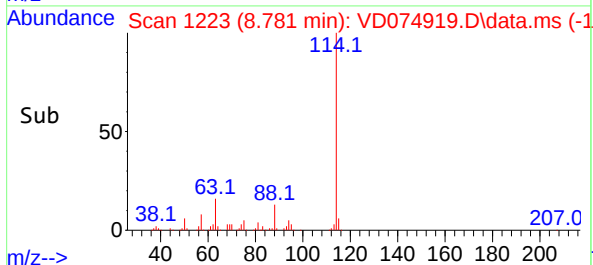
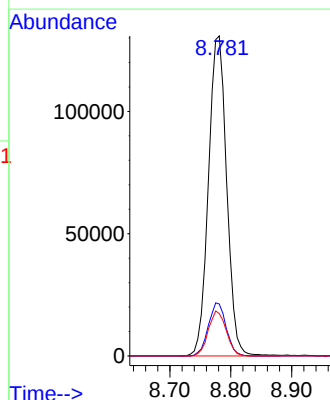
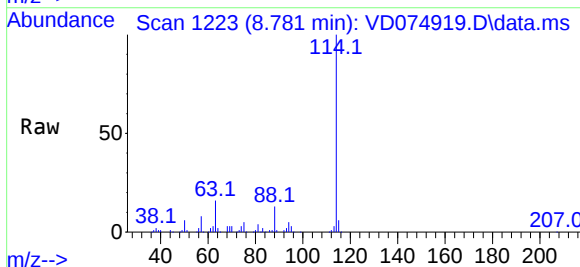
Tgt Ion: 114 Resp: 271839

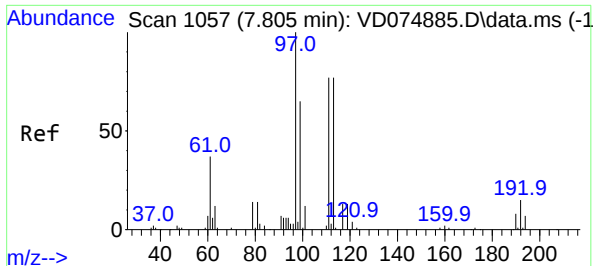
Ion Ratio Lower Upper

114 100

63 16.3 0.0 33.2

88 13.2 0.0 28.2





#35

Dibromofluoromethane

Concen: 71.061 ug/l

RT: 7.805 min Scan# 1057

Delta R.T. -0.000 min

Lab File: VD074919.D

Acq: 12 Nov 2022 06:29

Instrument :

MSVOA\_D

ClientSampleId :

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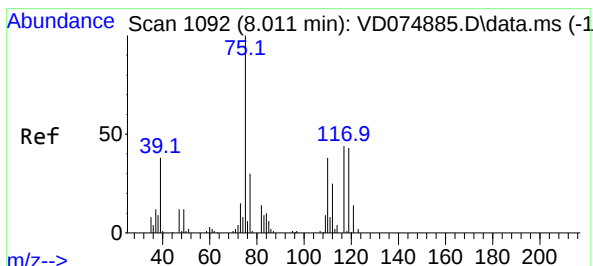
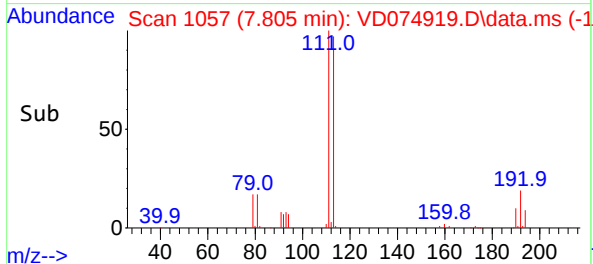
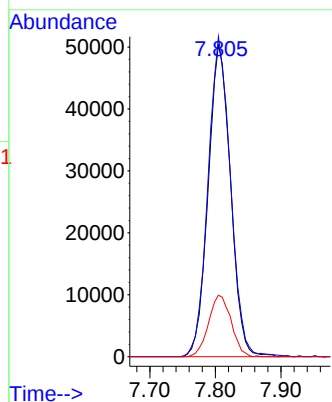
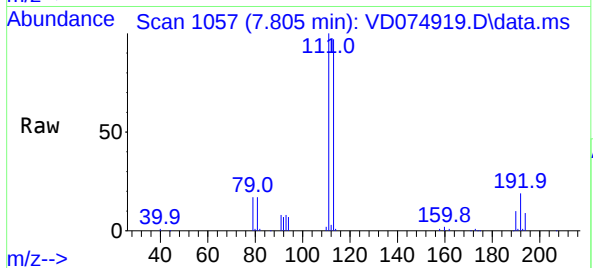
Tgt Ion:113 Resp: 119077

Ion Ratio Lower Upper

113 100

111 103.3 82.3 123.5

192 19.9 16.4 24.6



#36

1,1-Dichloropropene

Concen: 4.714 ug/l

RT: 7.869 min Scan# 1068

Delta R.T. -0.142 min

Lab File: VD074919.D

Acq: 12 Nov 2022 06:29

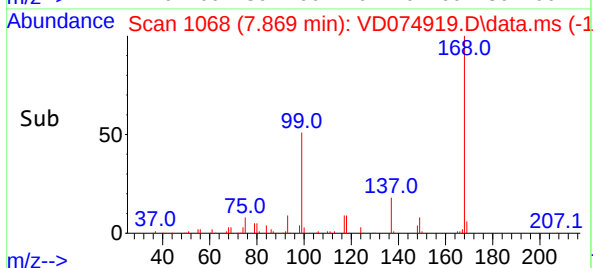
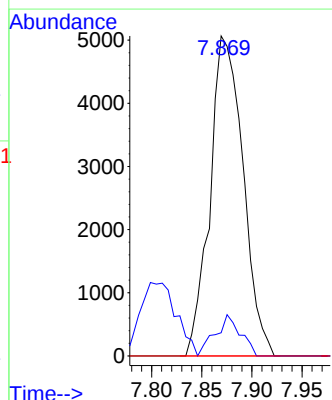
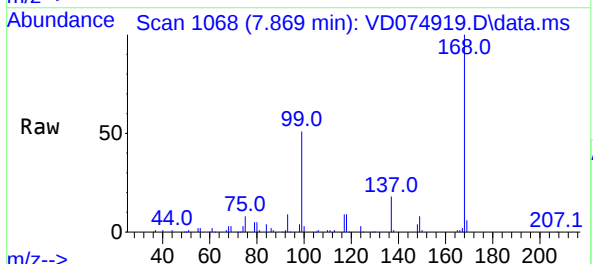
Tgt Ion: 75 Resp: 11609

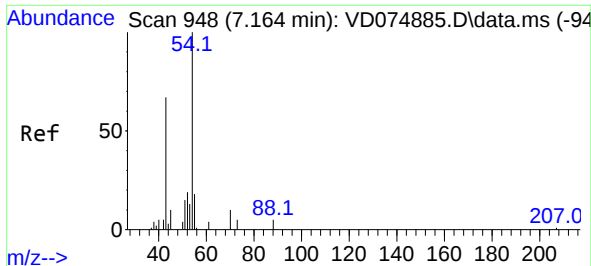
Ion Ratio Lower Upper

75 100

110 9.8 19.7 59.0#

77 0.0 25.4 38.2#





#37

Ethyl Acetate

Concen: 1.275 ug/l

RT: 7.075 min Scan# 91

Delta R.T. -0.089 min

Lab File: VD074919.D

Acq: 12 Nov 2022 06:29

Instrument :

MSVOA\_D

ClientSampleId :

TP-8

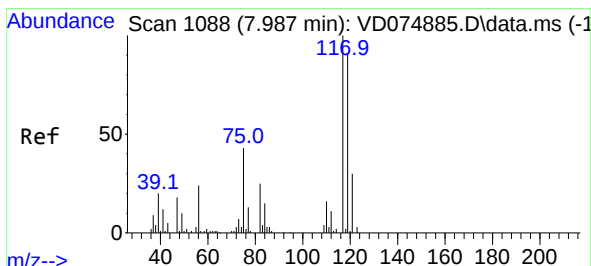
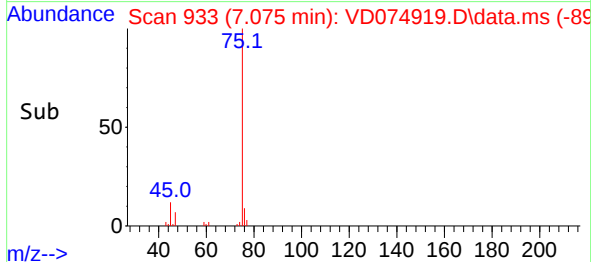
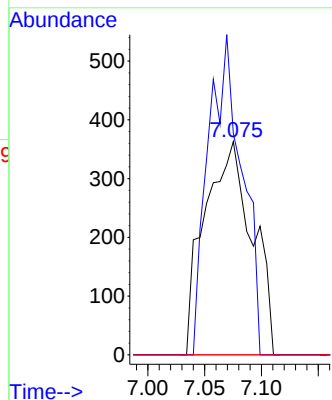
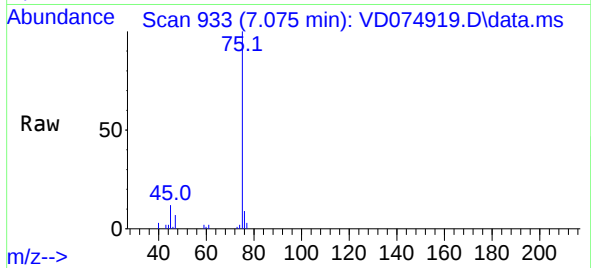
Tgt Ion: 43 Resp: 1054

Ion Ratio Lower Upper

43 100

61 107.0 12.2 18.4#

70 0.0 9.6 14.4#



#38

Carbon Tetrachloride

Concen: 6.659 ug/l

RT: 7.881 min Scan# 1070

Delta R.T. -0.106 min

Lab File: VD074919.D

Acq: 12 Nov 2022 06:29

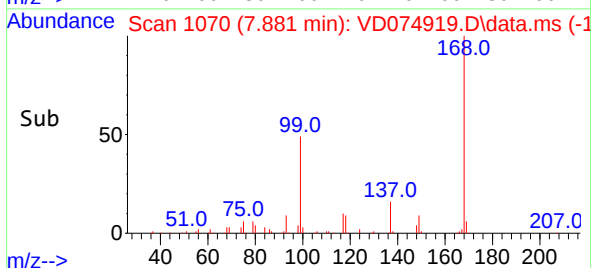
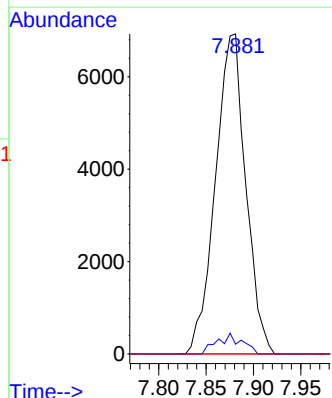
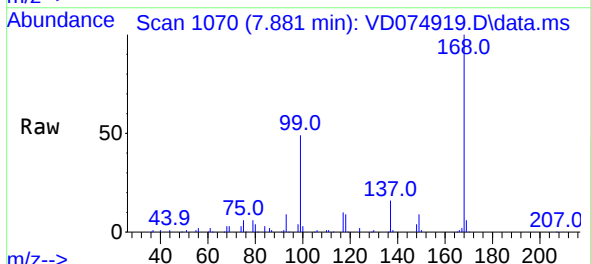
Tgt Ion: 117 Resp: 15437

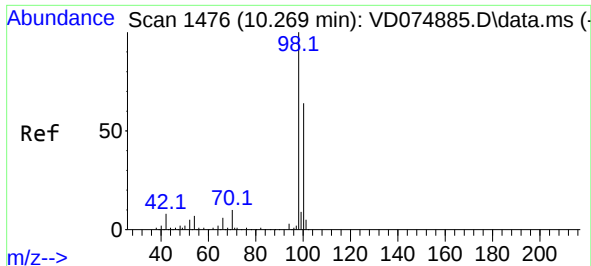
Ion Ratio Lower Upper

117 100

119 3.0 73.1 109.7#

121 0.0 25.0 37.6#

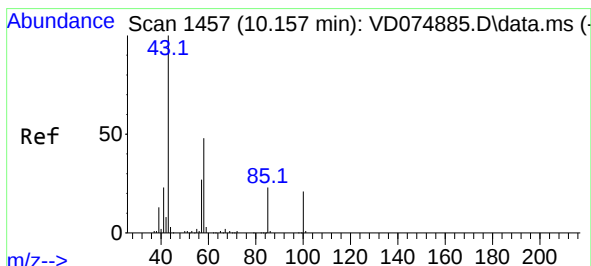
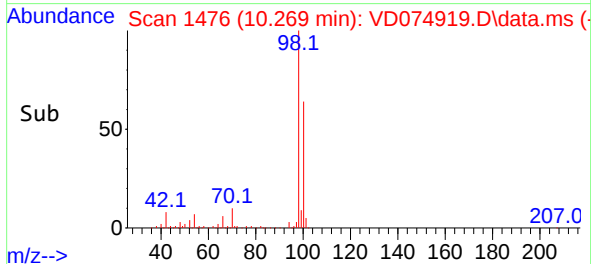
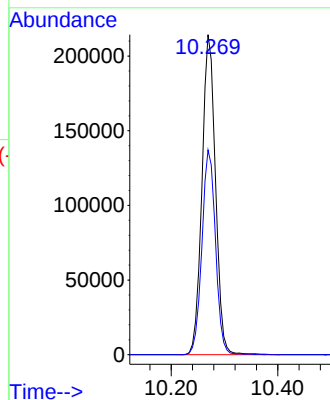
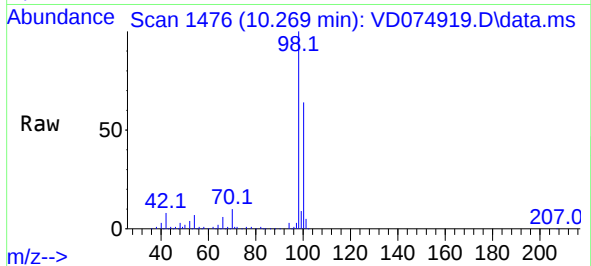




#50  
Toluene-d8  
Concen: 68.278 ug/l  
RT: 10.269 min Scan# 1476  
Delta R.T. 0.000 min  
Lab File: VD074919.D  
Acq: 12 Nov 2022 06:29

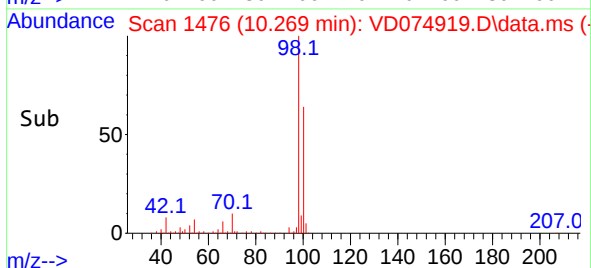
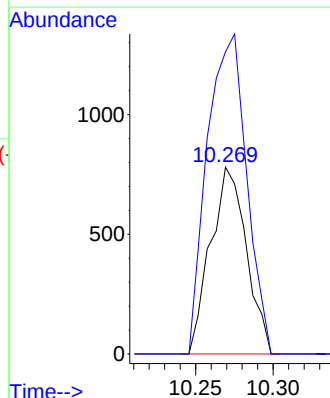
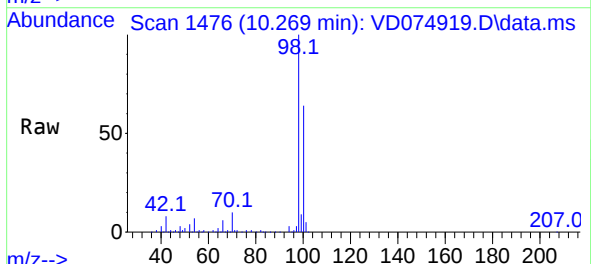
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-8

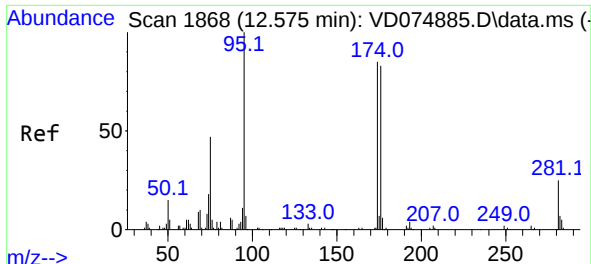
Tgt Ion: 98 Resp: 376881  
Ion Ratio Lower Upper  
98 100  
100 64.3 51.4 77.0



#51  
4-Methyl-2-Pentanone  
Concen: 1.804 ug/l  
RT: 10.269 min Scan# 1476  
Delta R.T. 0.112 min  
Lab File: VD074919.D  
Acq: 12 Nov 2022 06:29

Tgt Ion: 43 Resp: 1252  
Ion Ratio Lower Upper  
43 100  
58 188.1 37.8 56.6#

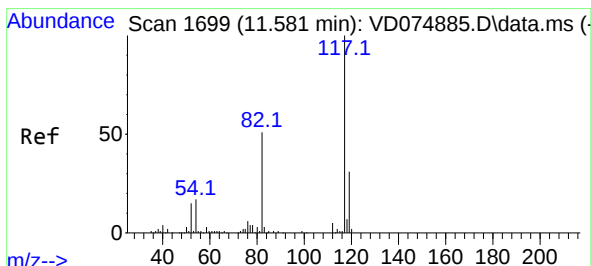
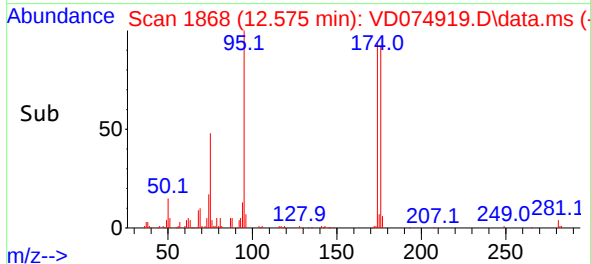
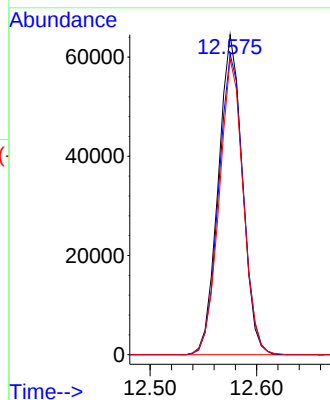
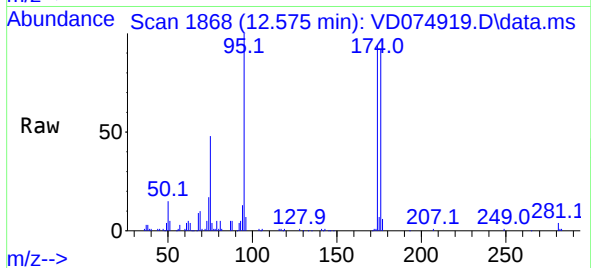




#62  
4-Bromofluorobenzene  
Concen: 59.587 ug/l  
RT: 12.575 min Scan# 1868  
Delta R.T. -0.000 min  
Lab File: VD074919.D  
Acq: 12 Nov 2022 06:29

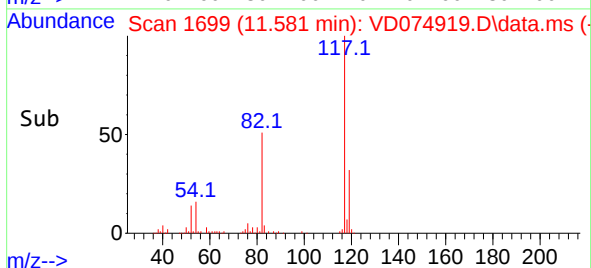
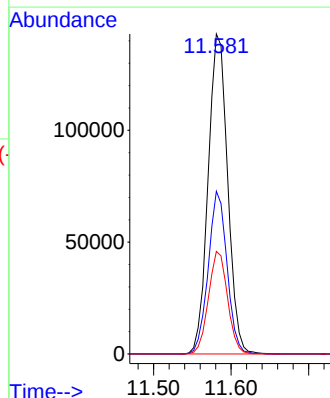
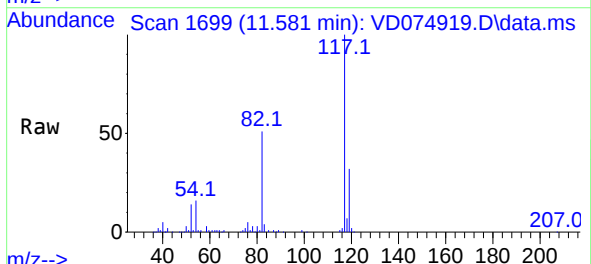
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-8

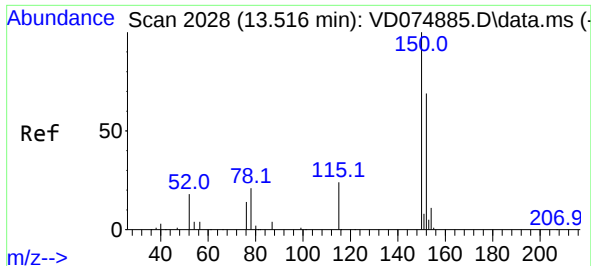
Tgt Ion: 95 Resp: 100998  
Ion Ratio Lower Upper  
95 100  
174 96.0 0.0 197.0  
176 92.3 0.0 182.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.581 min Scan# 1699  
Delta R.T. -0.000 min  
Lab File: VD074919.D  
Acq: 12 Nov 2022 06:29

Tgt Ion: 117 Resp: 250170  
Ion Ratio Lower Upper  
117 100  
82 50.8 41.6 62.4  
119 32.0 25.2 37.8

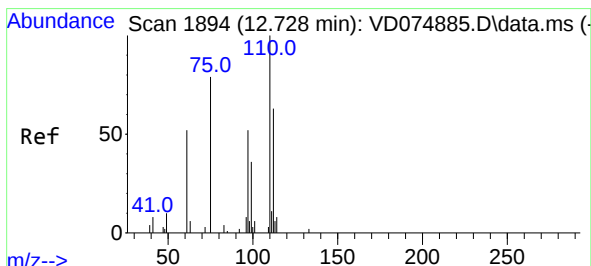
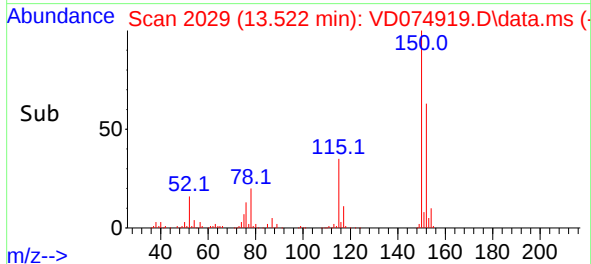
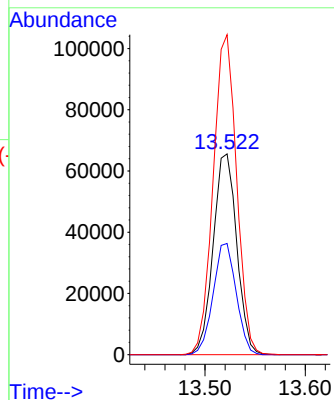
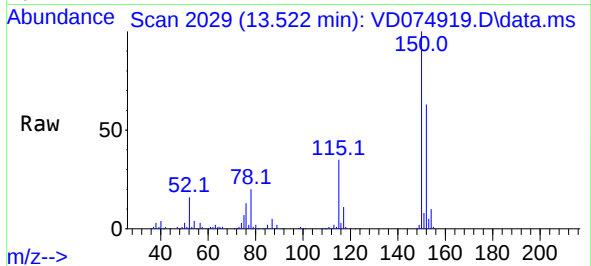




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.522 min Scan# 20  
Delta R.T. 0.006 min  
Lab File: VD074919.D  
Acq: 12 Nov 2022 06:29

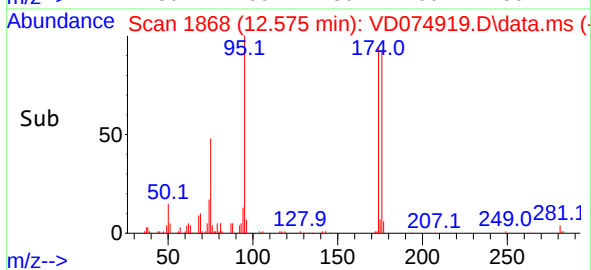
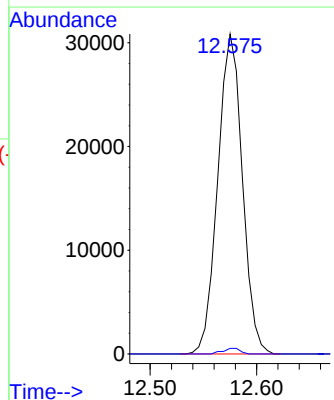
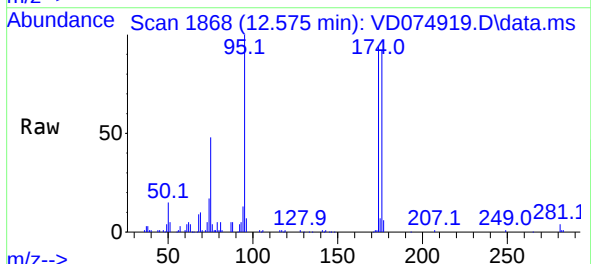
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-8

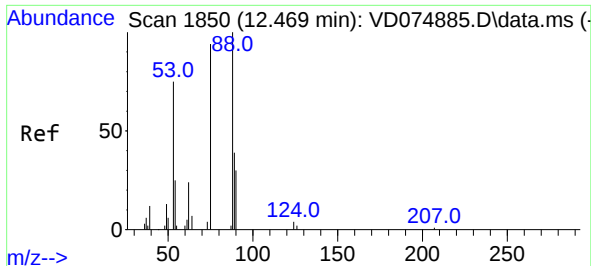
Tgt Ion:152 Resp: 107238  
Ion Ratio Lower Upper  
152 100  
115 54.3 26.8 80.4  
150 158.2 0.0 348.2



#76  
1,2,3-Trichloropropane  
Concen: 55.110 ug/l  
RT: 12.575 min Scan# 1868  
Delta R.T. -0.153 min  
Lab File: VD074919.D  
Acq: 12 Nov 2022 06:29

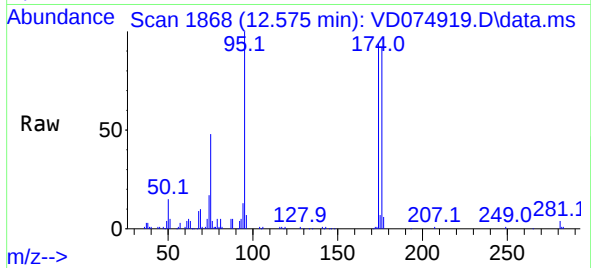
Tgt Ion: 75 Resp: 49430  
Ion Ratio Lower Upper  
75 100  
77 1.2 185.8 557.5#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 135.571 ug/l  
 RT: 12.575 min Scan# 11  
 Delta R.T. 0.106 min  
 Lab File: VD074919.D  
 Acq: 12 Nov 2022 06:29

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 TP-8



Tgt Ion: 75 Resp: 49430  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 63.8 95.6#  
 89 0.0 38.2 57.4#

