

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD022122\  
 Data File : VD072035.D  
 Acq On : 21 Feb 2022 16:30  
 Operator : VA/SY  
 Sample : N1626-06  
 Misc : 5.09G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 CC-B3

Quant Time: Feb 22 01:06:17 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D021822S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Feb 19 04:05:38 2022  
 Response via : Initial Calibration

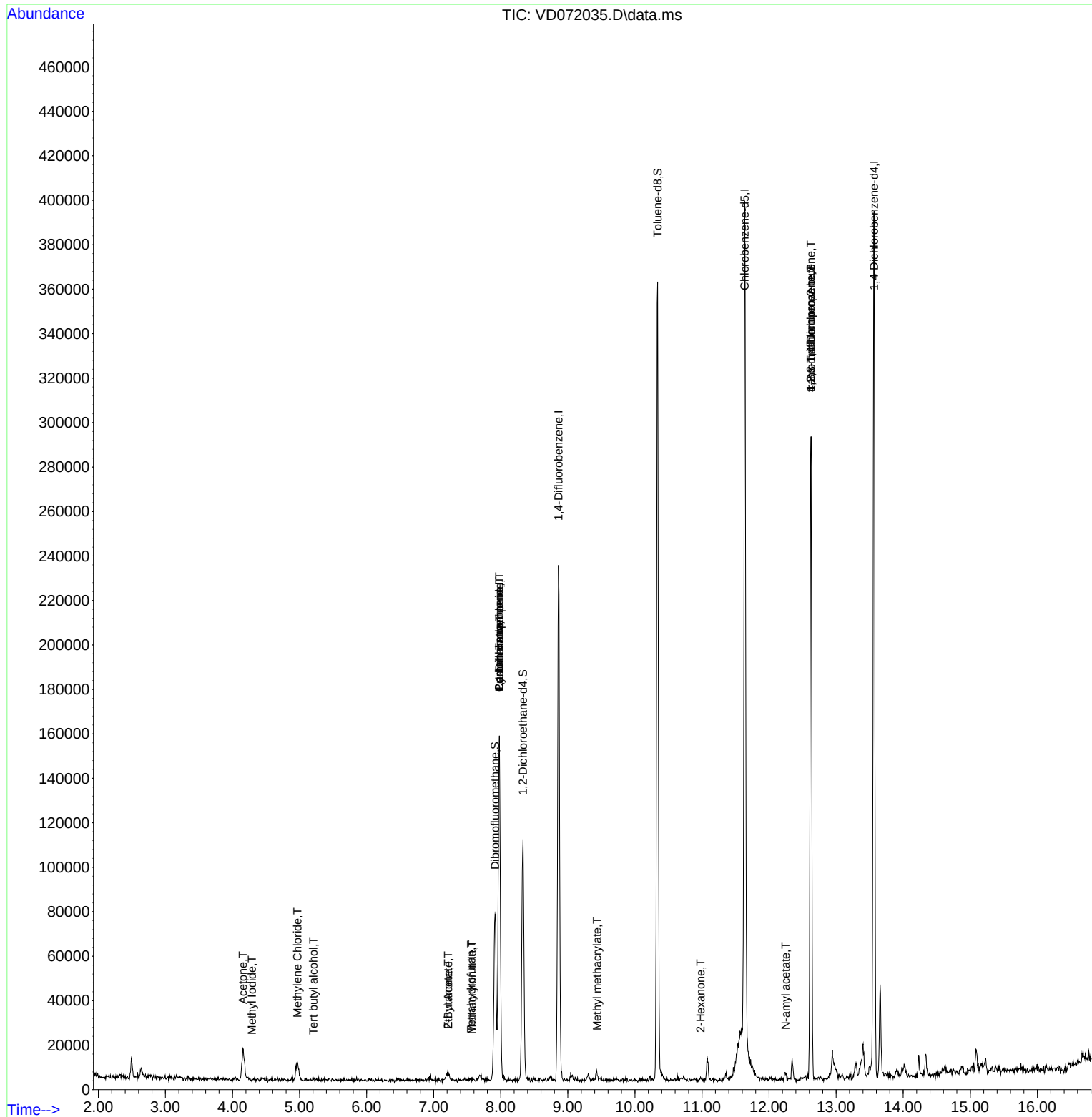
| Compound                      | R.T.           | QIon | Response            | Conc           | Units | Dev(Min) |
|-------------------------------|----------------|------|---------------------|----------------|-------|----------|
| -----                         |                |      |                     |                |       |          |
| Internal Standards            |                |      |                     |                |       |          |
| 1) Pentafluorobenzene         | 7.979          | 168  | 111366              | 50.000         | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.861          | 114  | 194303              | 50.000         | ug/l  | 0.00     |
| 63) Chlorobenzene-d5          | 11.638         | 117  | 215739              | 50.000         | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.567         | 152  | 105571              | 50.000         | ug/l  | 0.00     |
|                               |                |      |                     |                |       |          |
| System Monitoring Compounds   |                |      |                     |                |       |          |
| 33) 1,2-Dichloroethane-d4     | 8.332          | 65   | 87615               | 75.844         | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 151.680% |                |       |          |
| 35) Dibromofluoromethane      | 7.914          | 113  | 55291               | 46.967         | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 93.940%  |                |       |          |
| 50) Toluene-d8                | 10.338         | 98   | 240493              | 55.088         | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 49 - 140 |      | Recovery = 110.180% |                |       |          |
| 62) 4-Bromofluorobenzene      | 12.626         | 95   | 95314               | 59.437         | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 25 - 144 |      | Recovery = 118.880% |                |       |          |
|                               |                |      |                     |                |       |          |
| Target Compounds              |                |      |                     |                |       | Qvalue   |
| 5) Bromomethane               | 2.785          | 94   | 472                 | Below Cal      |       | 83       |
| 10) Methyl Iodide             | 4.291          | 142  | 66                  | 2.973 ug/l #   |       | 40       |
| 11) Tert butyl alcohol        | 5.209          | 59   | 565                 | 8.572 ug/l #   |       | 80       |
| 16) Acetone                   | 4.156          | 43   | 24854               | 99.552 ug/l    |       | 99       |
| 18) Methyl Acetate            | 4.879          | 43   | 71                  | Below Cal #    |       | 52       |
| 20) Methylene Chloride        | 4.967          | 84   | 5111                | 4.113 ug/l #   |       | 80       |
| 25) 2-Butanone                | 7.214          | 43   | 5014                | 14.531 ug/l #  |       | 49       |
| 29) Tetrahydrofuran           | 7.561          | 42   | 829                 | 3.764 ug/l #   |       | 41       |
| 31) Cyclohexane               | 7.979          | 56   | 2752                | 1.349 ug/l #   |       | 20       |
| 36) 1,1-Dichloropropene       | 7.979          | 75   | 8975                | 5.033 ug/l #   |       | 49       |
| 37) Ethyl Acetate             | 7.214          | 43   | 5014                | 6.063 ug/l #   |       | 71       |
| 38) Carbon Tetrachloride      | 7.979          | 117  | 11436               | 6.257 ug/l #   |       | 17       |
| 41) Methacrylonitrile         | 7.573          | 41   | 731                 | 1.426 ug/l #   |       | 34       |
| 48) Methyl methacrylate       | 9.438          | 41   | 1307                | 1.680 ug/l #   |       | 30       |
| 59) 2-Hexanone                | 10.979         | 43   | 1232                | 2.213 ug/l     |       | 91       |
| 74) N-amyl acetate            | 12.249         | 43   | 2924                | 1.671 ug/l #   |       | 45       |
| 76) 1,2,3-Trichloropropane    | 12.626         | 75   | 49982               | 49.982 ug/l #  |       | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.626         | 75   | 49982               | 125.167 ug/l # |       | 10       |
| -----                         |                |      |                     |                |       |          |

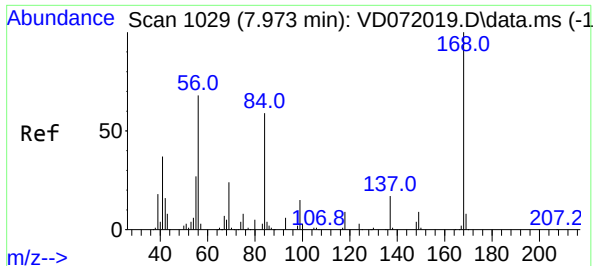
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
MSVOA\_D  
ClientSampleId :  
CC-B3

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Quant Title : SW846 8260  
QLast Update : Sat Feb 19 04:05:38 2022  
Response via : Initial Calibration

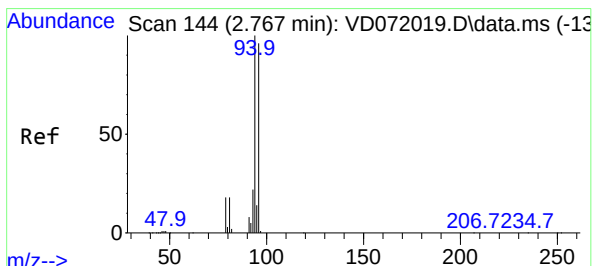
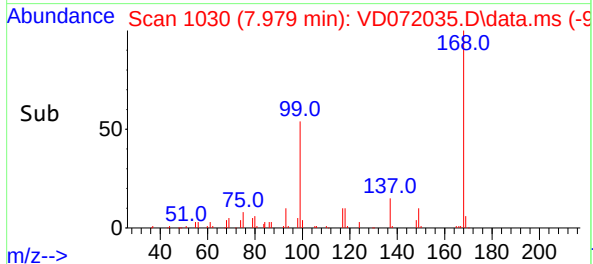
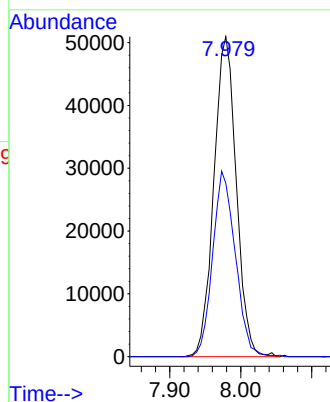
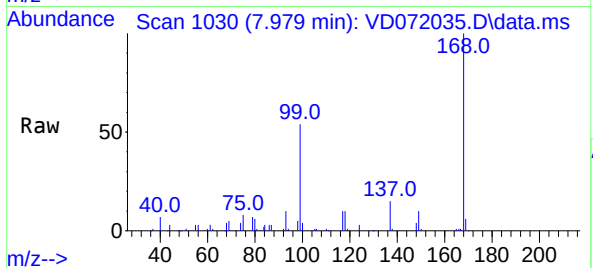




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.979 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VD072035.D  
Acq: 21 Feb 2022 16:30

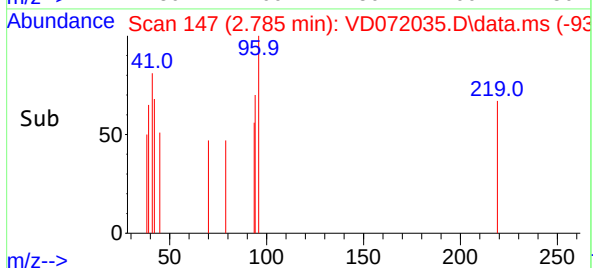
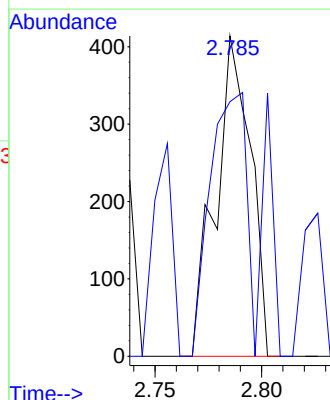
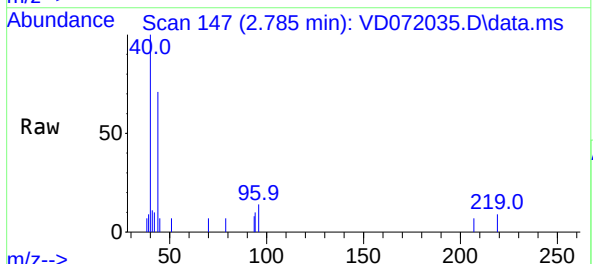
Instrument :  
MSVOA\_D  
ClientSampleId :  
CC-B3

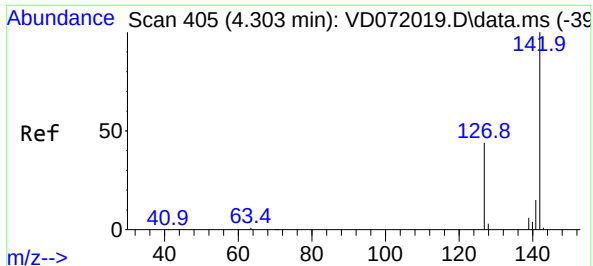
Tgt Ion:168 Resp: 111366  
Ion Ratio Lower Upper  
168 100  
99 54.2 47.1 70.7



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.785 min Scan# 147  
Delta R.T. 0.018 min  
Lab File: VD072035.D  
Acq: 21 Feb 2022 16:30

Tgt Ion: 94 Resp: 472  
Ion Ratio Lower Upper  
94 100  
96 79.5 76.8 115.2

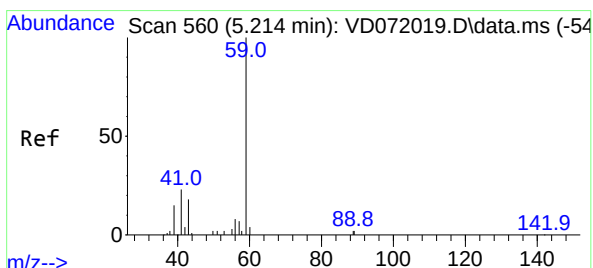
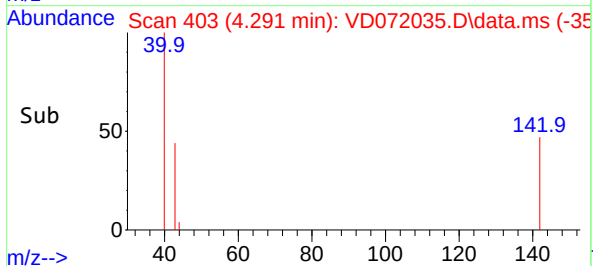
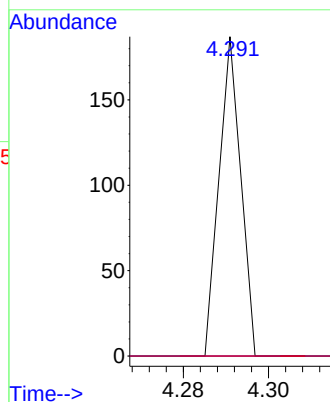
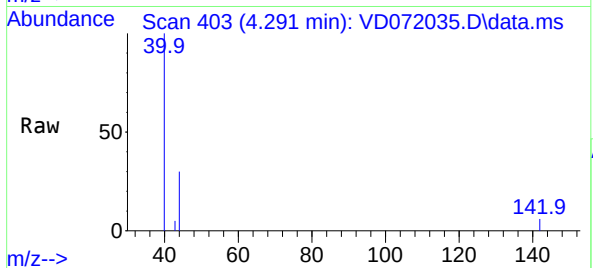




#10  
Methyl Iodide  
Concen: 2.973 ug/l  
RT: 4.291 min Scan# 40  
Delta R.T. -0.012 min  
Lab File: VD072035.D  
Acq: 21 Feb 2022 16:30

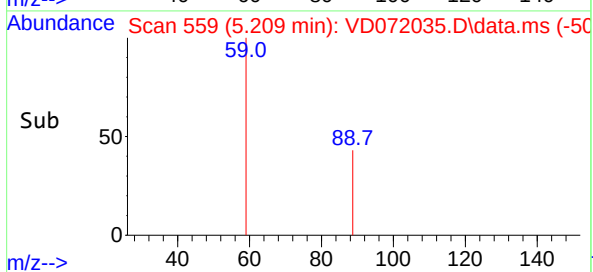
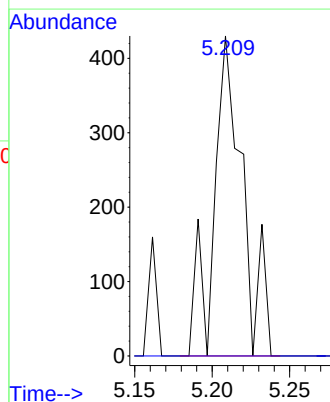
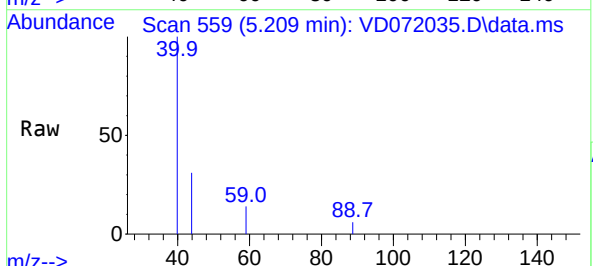
Instrument :  
MSVOA\_D  
ClientSampleId :  
CC-B3

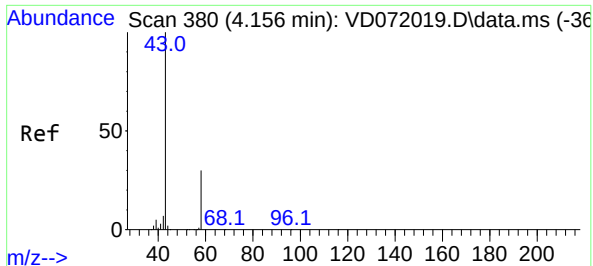
Tgt Ion:142 Resp: 66  
Ion Ratio Lower Upper  
142 100  
127 0.0 35.8 53.8#  
141 0.0 11.6 17.4#



#11  
Tert butyl alcohol  
Concen: 8.572 ug/l  
RT: 5.209 min Scan# 559  
Delta R.T. -0.006 min  
Lab File: VD072035.D  
Acq: 21 Feb 2022 16:30

Tgt Ion: 59 Resp: 565  
Ion Ratio Lower Upper  
59 100  
57 0.0 5.4 8.2#

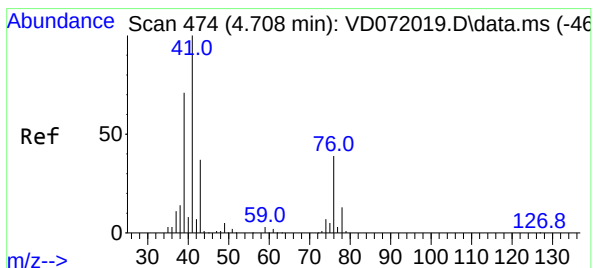
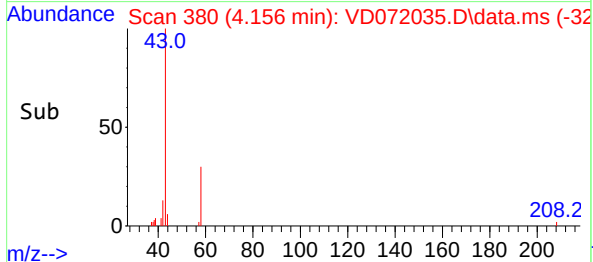
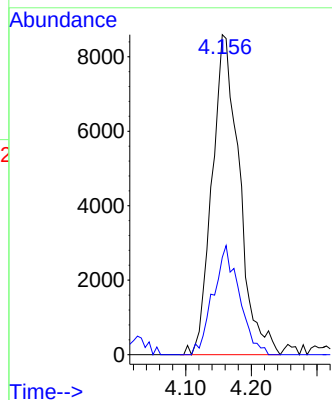
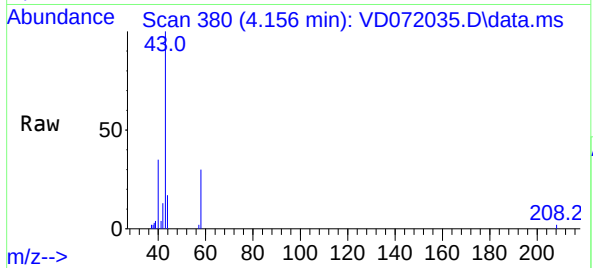




#16  
Acetone  
Concen: 99.552 ug/l  
RT: 4.156 min Scan# 31  
Delta R.T. -0.000 min  
Lab File: VD072035.D  
Acq: 21 Feb 2022 16:30

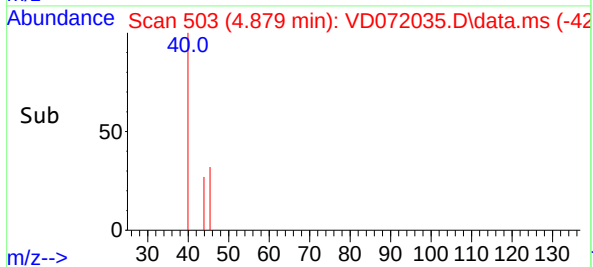
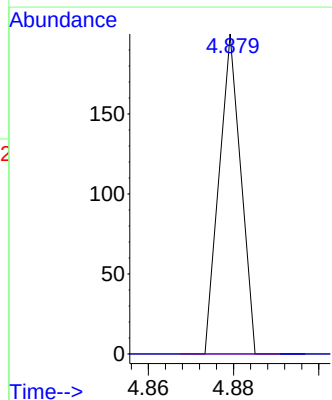
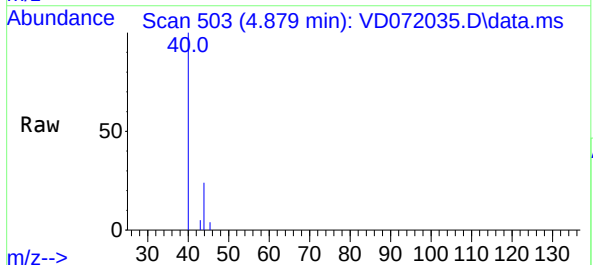
Instrument :  
MSVOA\_D  
ClientSampleId :  
CC-B3

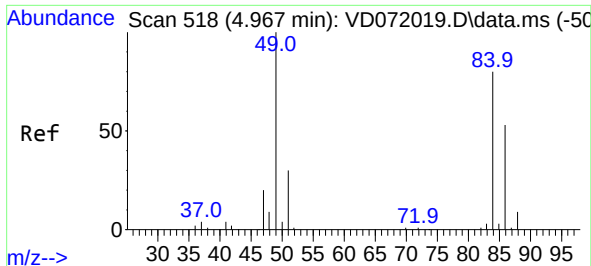
Tgt Ion: 43 Resp: 24854  
Ion Ratio Lower Upper  
43 100  
58 30.4 23.8 35.6



#18  
Methyl Acetate  
Concen: Below Cal  
RT: 4.879 min Scan# 503  
Delta R.T. 0.171 min  
Lab File: VD072035.D  
Acq: 21 Feb 2022 16:30

Tgt Ion: 43 Resp: 71  
Ion Ratio Lower Upper  
43 100  
74 0.0 18.6 27.8#

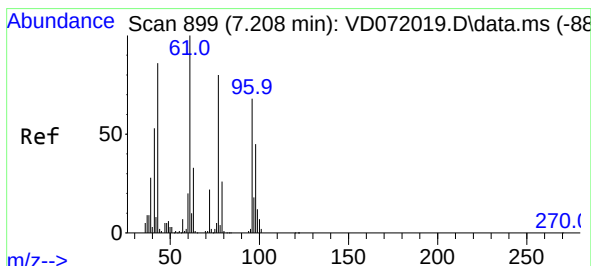
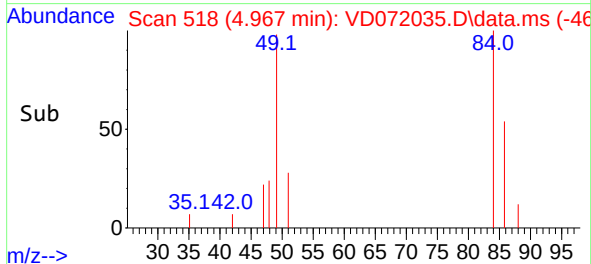
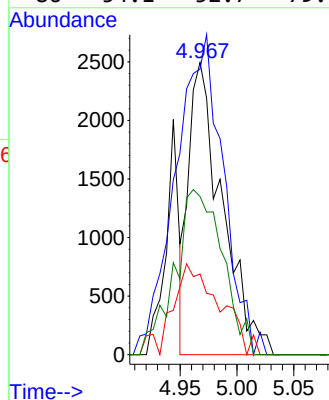
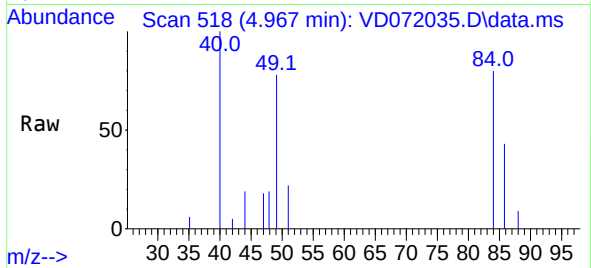




#20  
Methylene Chloride  
Concen: 4.113 ug/l  
RT: 4.967 min Scan# 511  
Delta R.T. 0.000 min  
Lab File: VD072035.D  
Acq: 21 Feb 2022 16:30

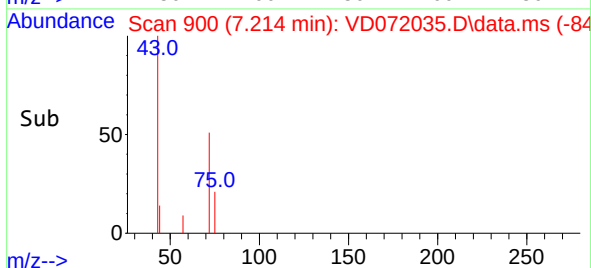
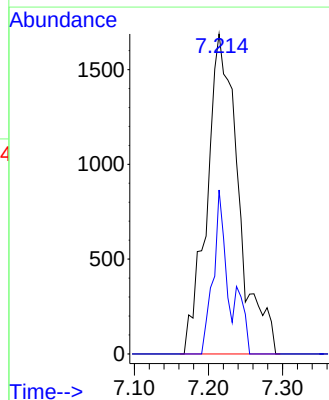
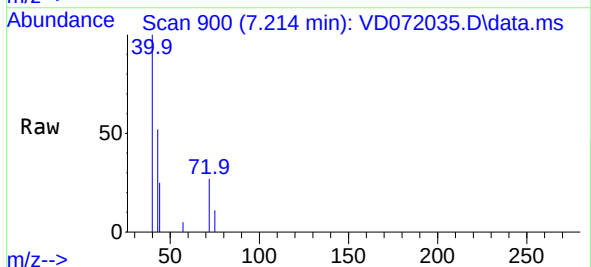
Instrument :  
MSVOA\_D  
ClientSampleId :  
CC-B3

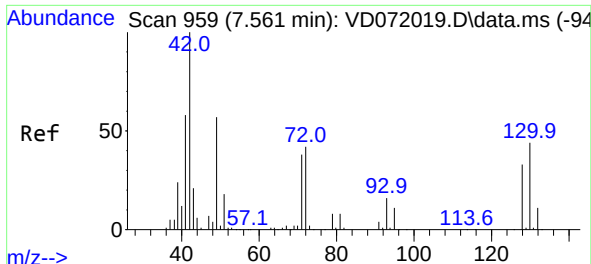
Tgt Ion: 84 Resp: 5111  
Ion Ratio Lower Upper  
84 100  
49 97.7 100.0 150.0#  
51 27.6 30.2 45.4#  
86 54.1 52.7 79.1



#25  
2-Butanone  
Concen: 14.531 ug/l  
RT: 7.214 min Scan# 900  
Delta R.T. 0.006 min  
Lab File: VD072035.D  
Acq: 21 Feb 2022 16:30

Tgt Ion: 43 Resp: 5014  
Ion Ratio Lower Upper  
43 100  
72 51.2 20.3 30.5#

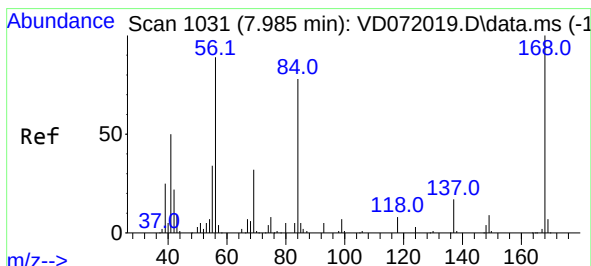
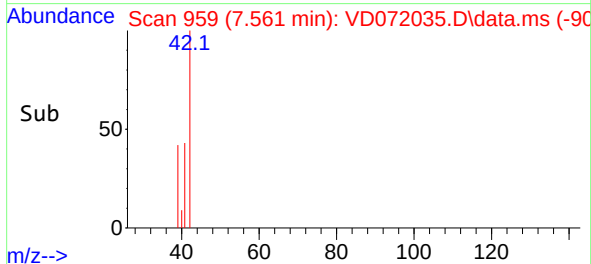
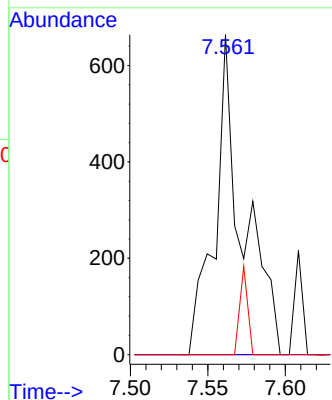
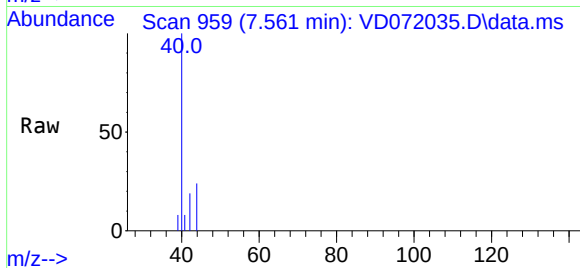




#29  
Tetrahydrofuran  
Concen: 3.764 ug/l  
RT: 7.561 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VD072035.D  
Acq: 21 Feb 2022 16:30

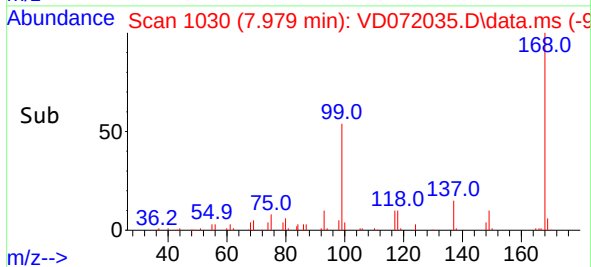
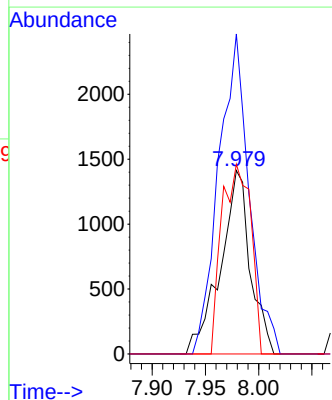
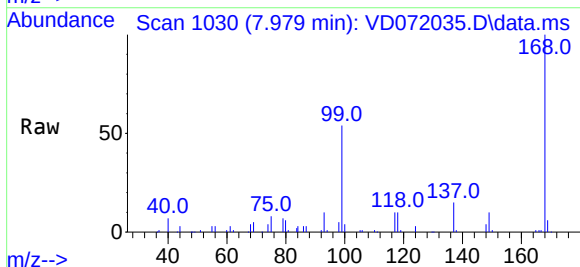
Instrument :  
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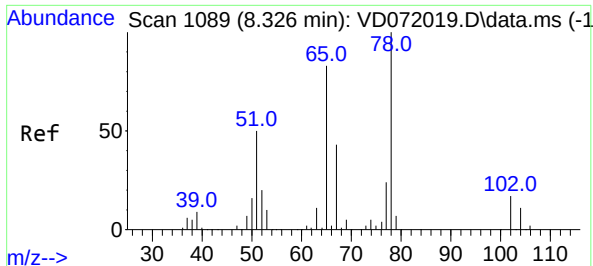
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|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 829   |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 0.0   | 33.6  | 50.4# |
| 71       | 7.8   | 31.0  | 46.4# |



#31  
Cyclohexane  
Concen: 1.349 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.006 min  
Lab File: VD072035.D  
Acq: 21 Feb 2022 16:30

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 56    | Resp: | 2752  |
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 69       | 174.5 | 28.9  | 43.3# |
| 84       | 103.5 | 70.6  | 105.8 |





#33

1,2-Dichloroethane-d4

Concen: 75.844 ug/l

RT: 8.332 min Scan# 1089

Delta R.T. 0.006 min

Lab File: VD072035.D

Acq: 21 Feb 2022 16:30

Instrument :

MSVOA\_D

ClientSampleId :

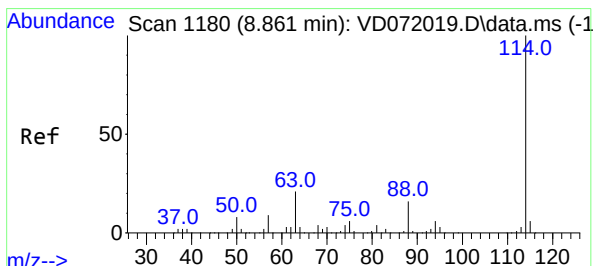
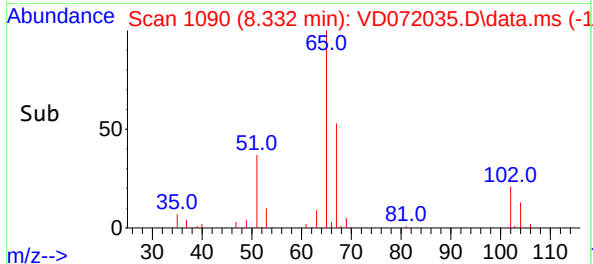
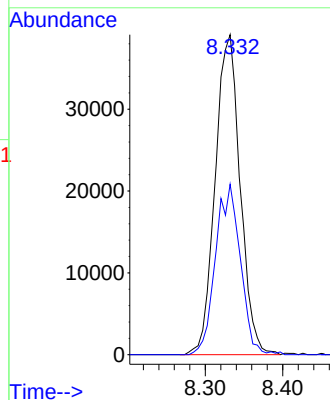
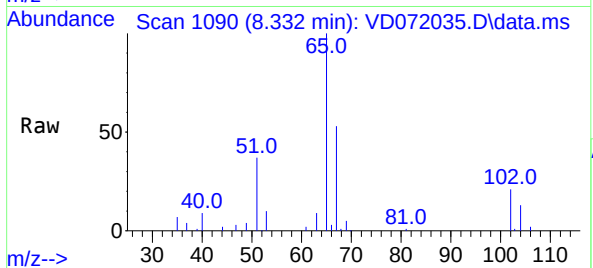
CC-B3

Tgt Ion: 65 Resp: 87615

Ion Ratio Lower Upper

65 100

67 53.0 0.0 105.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.861 min Scan# 1180

Delta R.T. 0.000 min

Lab File: VD072035.D

Acq: 21 Feb 2022 16:30

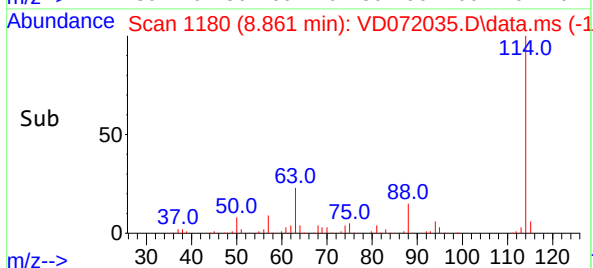
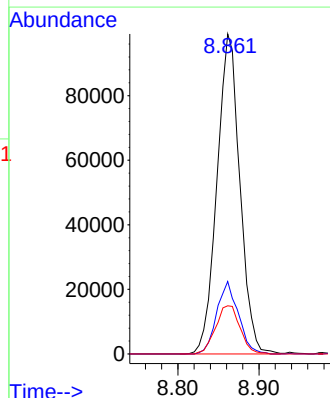
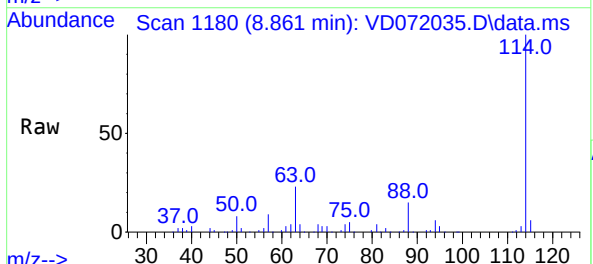
Tgt Ion: 114 Resp: 194303

Ion Ratio Lower Upper

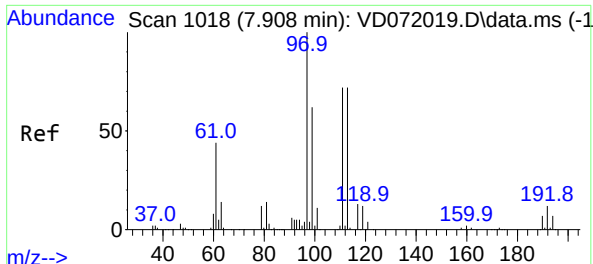
114 100

63 22.6 0.0 42.2

88 15.1 0.0 31.2



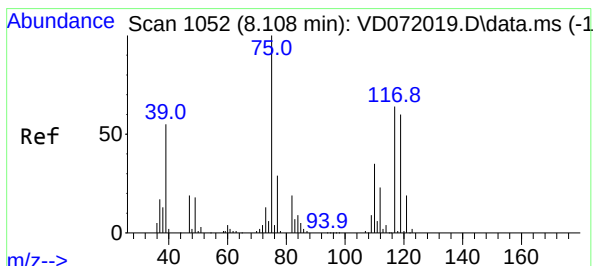
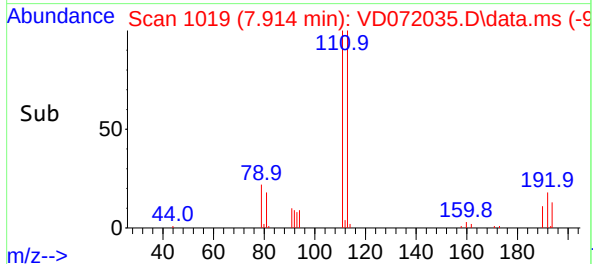
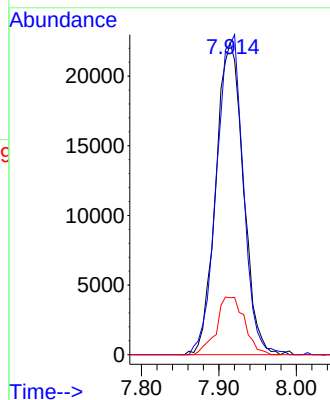
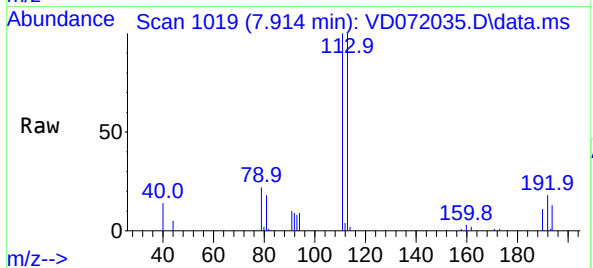




#35  
Dibromofluoromethane  
Concen: 46.967 ug/l  
RT: 7.914 min Scan# 1018  
Delta R.T. 0.006 min  
Lab File: VD072035.D  
Acq: 21 Feb 2022 16:30

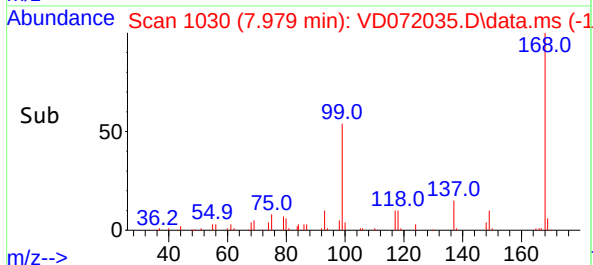
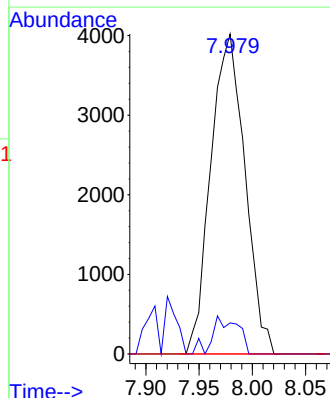
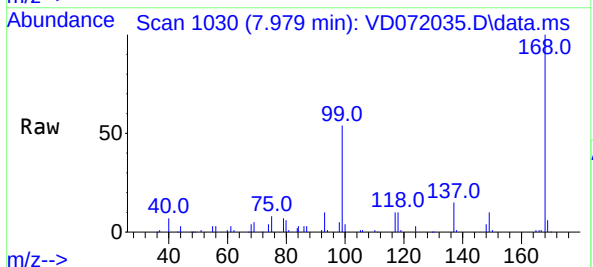
Instrument :  
MSVOA\_D  
ClientSampleId :  
CC-B3

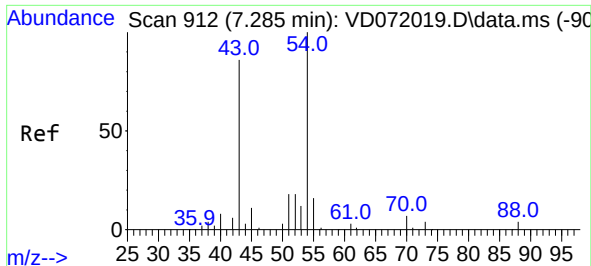
Tgt Ion:113 Resp: 55291  
Ion Ratio Lower Upper  
113 100  
111 100.0 83.0 124.4  
192 18.8 15.3 22.9



#36  
1,1-Dichloropropene  
Concen: 5.033 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.129 min  
Lab File: VD072035.D  
Acq: 21 Feb 2022 16:30

Tgt Ion: 75 Resp: 8975  
Ion Ratio Lower Upper  
75 100  
110 8.8 17.7 53.1#  
77 0.0 24.8 37.2#





#37

Ethyl Acetate

Concen: 6.063 ug/l

RT: 7.214 min Scan# 90

Delta R.T. -0.071 min

Lab File: VD072035.D

Acq: 21 Feb 2022 16:30

Instrument :

MSVOA\_D

ClientSampleId :

CC-B3

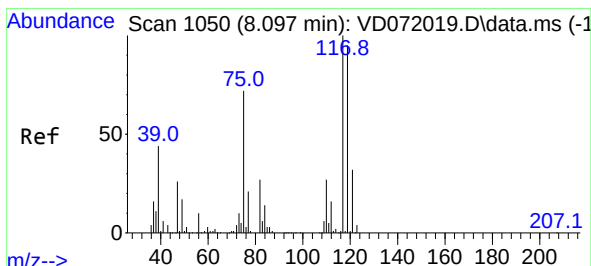
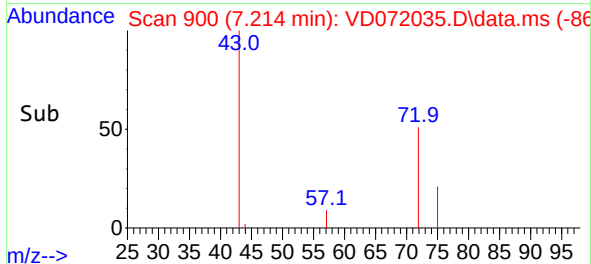
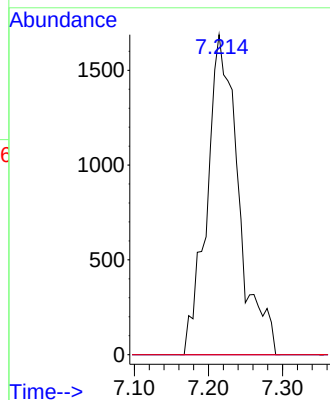
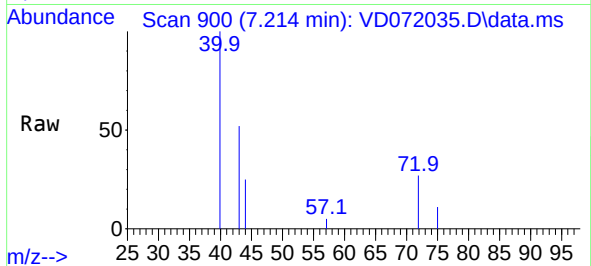
Tgt Ion: 43 Resp: 5014

Ion Ratio Lower Upper

43 100

61 0.0 9.8 14.8#

70 0.0 7.4 11.2#



#38

Carbon Tetrachloride

Concen: 6.257 ug/l

RT: 7.979 min Scan# 1030

Delta R.T. -0.118 min

Lab File: VD072035.D

Acq: 21 Feb 2022 16:30

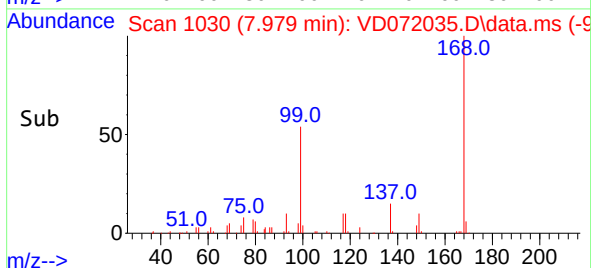
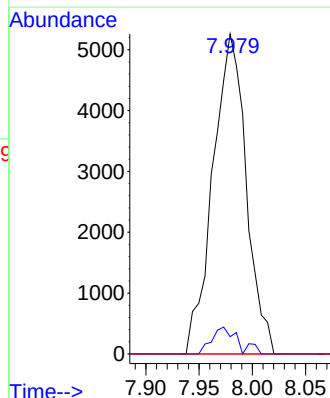
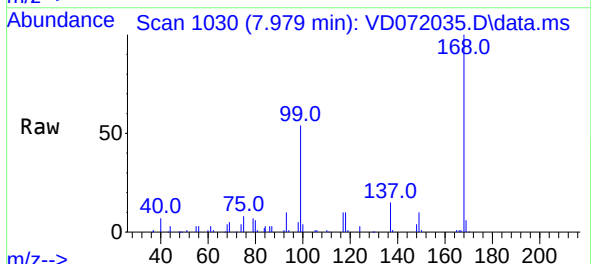
Tgt Ion: 117 Resp: 11436

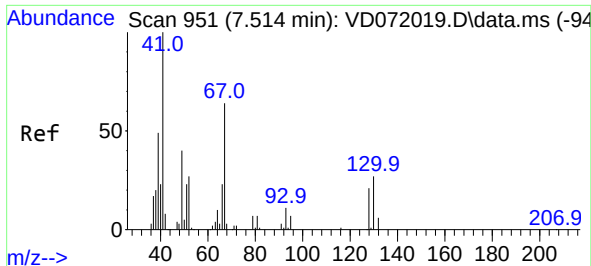
Ion Ratio Lower Upper

117 100

119 5.4 75.8 113.8#

121 0.0 25.8 38.6#



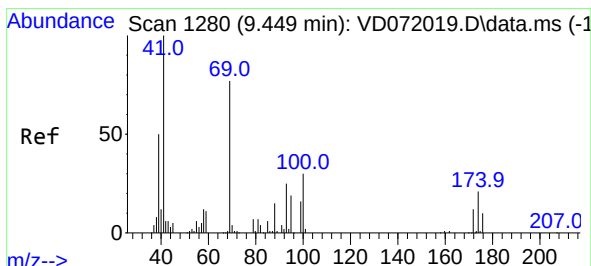
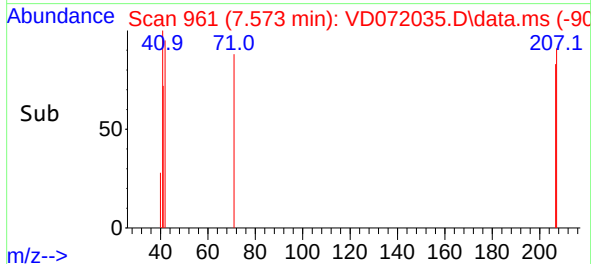
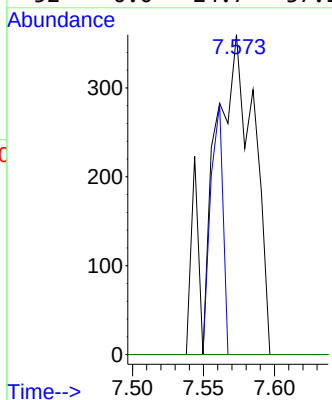
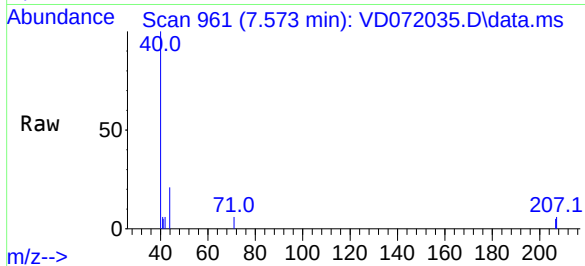


#41  
Methacrylonitrile  
Concen: 1.426 ug/l  
RT: 7.573 min Scan# 90  
Delta R.T. 0.059 min  
Lab File: VD072035.D  
Acq: 21 Feb 2022 16:30

Instrument :  
MSVOA\_D  
ClientSampleId :  
CC-B3

Tgt Ion: 41 Resp: 731

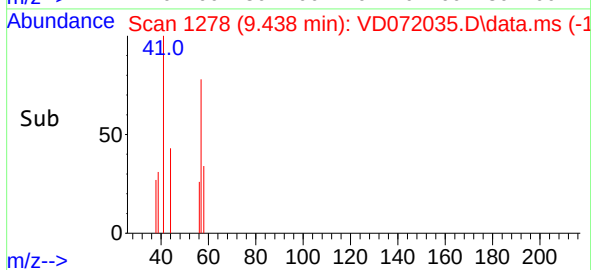
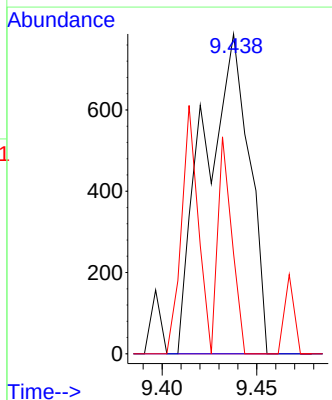
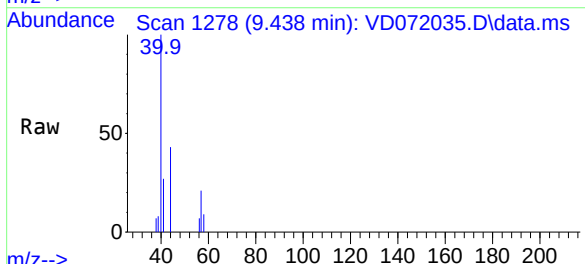
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 41  | 100   |       |       |
| 39  | 23.4  | 46.7  | 70.1# |
| 67  | 0.0   | 57.6  | 86.4# |
| 52  | 0.0   | 24.7  | 37.1# |

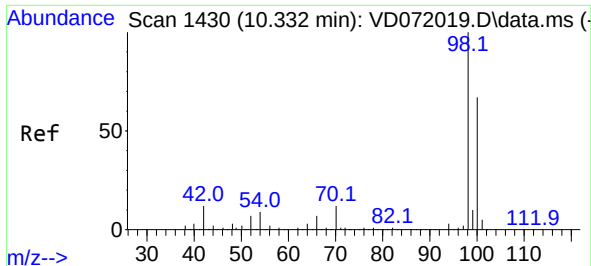


#48  
Methyl methacrylate  
Concen: 1.680 ug/l  
RT: 9.438 min Scan# 1278  
Delta R.T. -0.012 min  
Lab File: VD072035.D  
Acq: 21 Feb 2022 16:30

Tgt Ion: 41 Resp: 1307

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 41  | 100   |       |       |
| 69  | 0.0   | 61.6  | 92.4# |
| 39  | 21.1  | 38.6  | 57.8# |





#50

Toluene-d8

Concen: 55.088 ug/l

RT: 10.338 min Scan# 1430

Delta R.T. 0.006 min

Lab File: VD072035.D

Acq: 21 Feb 2022 16:30

Instrument :

MSVOA\_D

ClientSampleId :

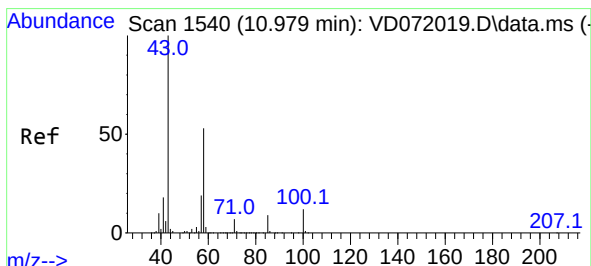
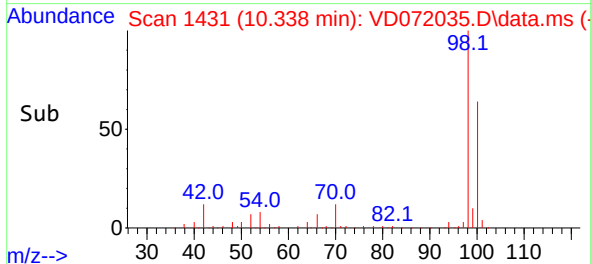
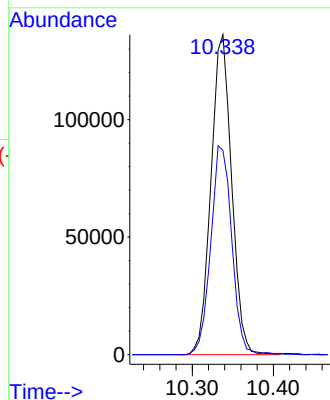
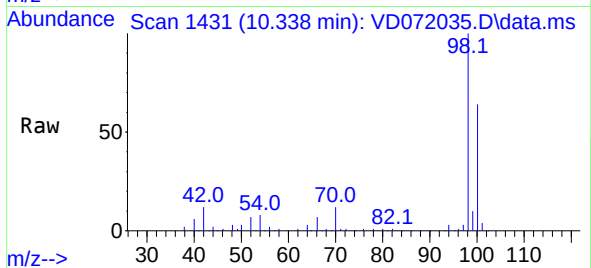
CC-B3

Tgt Ion: 98 Resp: 240493

Ion Ratio Lower Upper

98 100

100 66.0 53.8 80.6



#59

2-Hexanone

Concen: 2.213 ug/l

RT: 10.979 min Scan# 1540

Delta R.T. 0.000 min

Lab File: VD072035.D

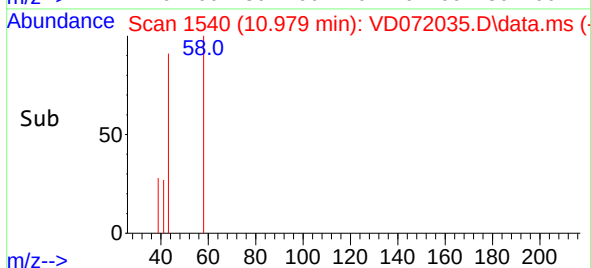
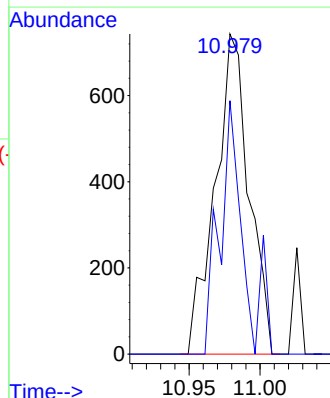
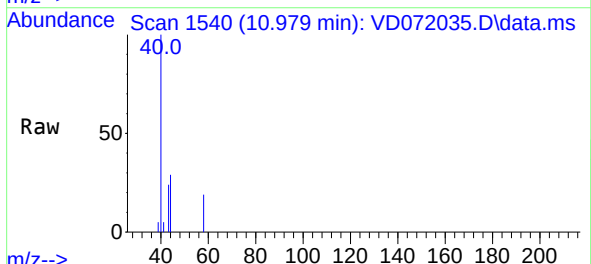
Acq: 21 Feb 2022 16:30

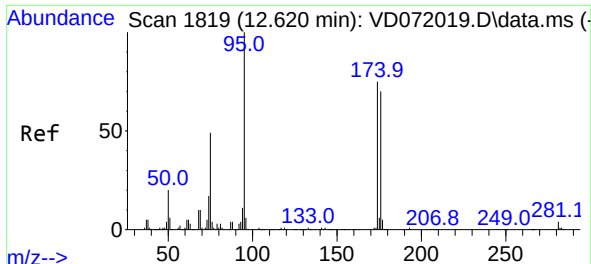
Tgt Ion: 43 Resp: 1232

Ion Ratio Lower Upper

43 100

58 47.3 27.0 80.8

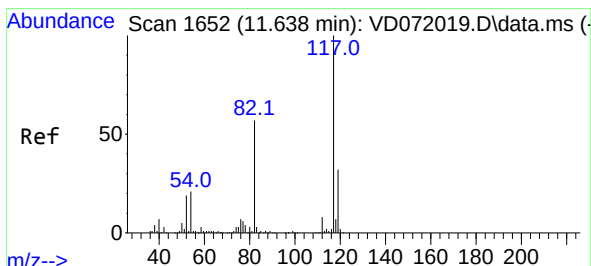
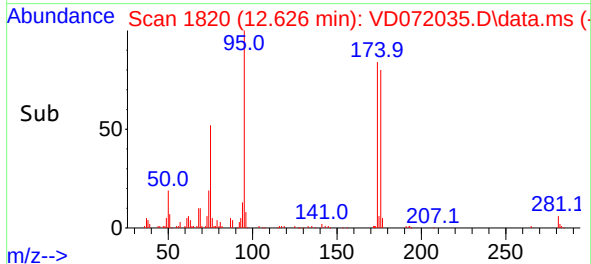
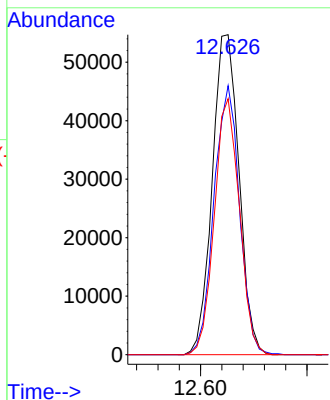
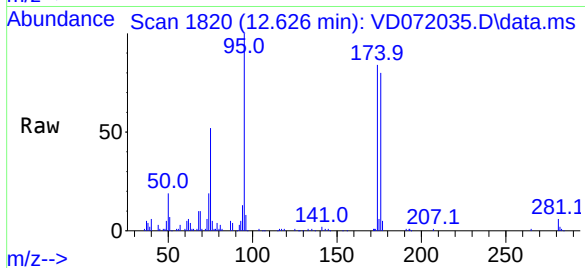




#62  
4-Bromofluorobenzene  
Concen: 59.437 ug/l  
RT: 12.626 min Scan# 1819  
Delta R.T. 0.006 min  
Lab File: VD072035.D  
Acq: 21 Feb 2022 16:30

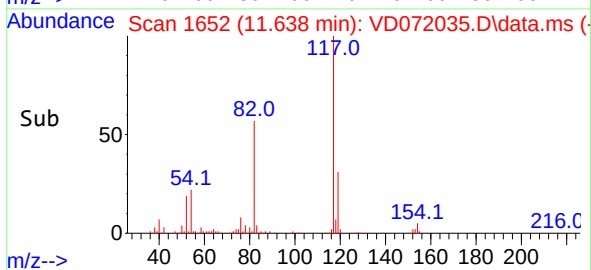
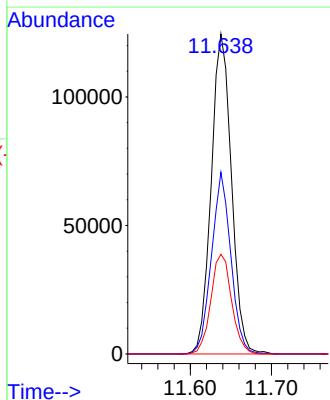
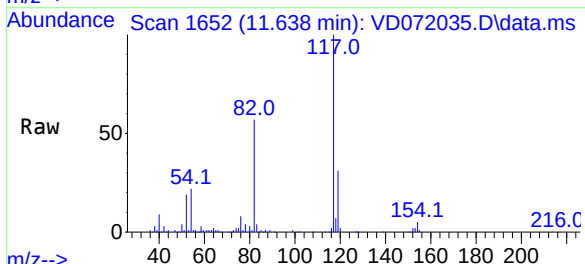
Instrument :  
MSVOA\_D  
ClientSampleId :  
CC-B3

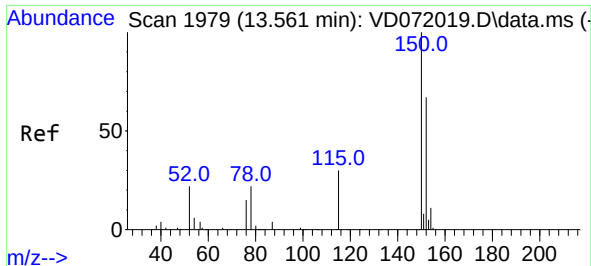
Tgt Ion: 95 Resp: 95314  
Ion Ratio Lower Upper  
95 100  
174 80.1 0.0 155.0  
176 75.1 0.0 148.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.638 min Scan# 1652  
Delta R.T. 0.000 min  
Lab File: VD072035.D  
Acq: 21 Feb 2022 16:30

Tgt Ion: 117 Resp: 215739  
Ion Ratio Lower Upper  
117 100  
82 56.8 45.4 68.0  
119 31.1 25.4 38.2

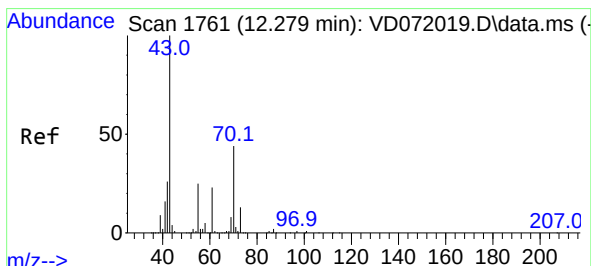
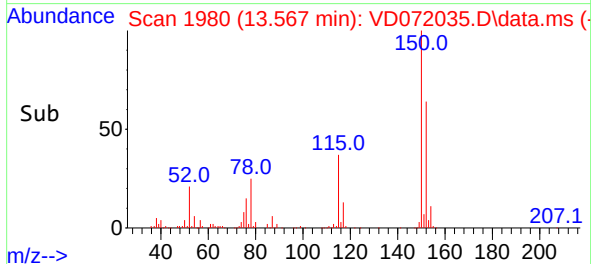
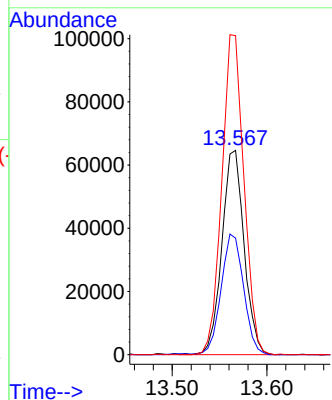
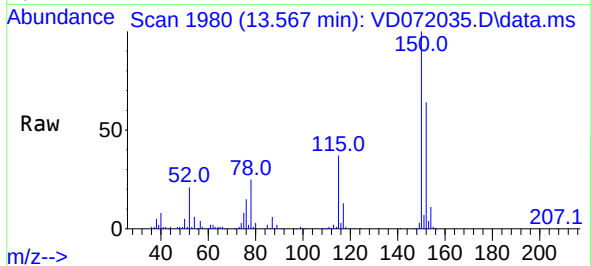




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.567 min Scan# 1979  
Delta R.T. 0.006 min  
Lab File: VD072035.D  
Acq: 21 Feb 2022 16:30

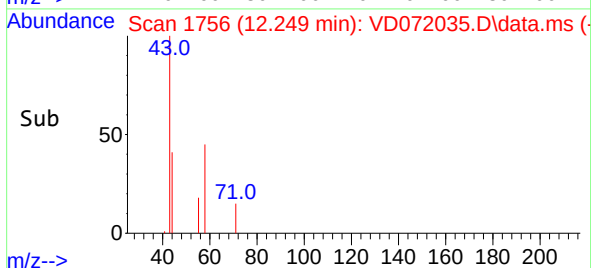
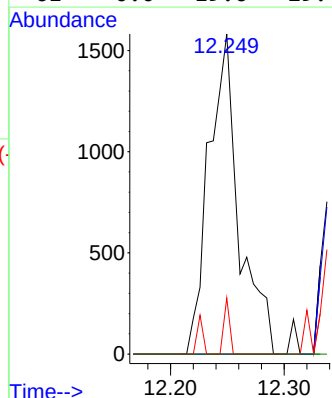
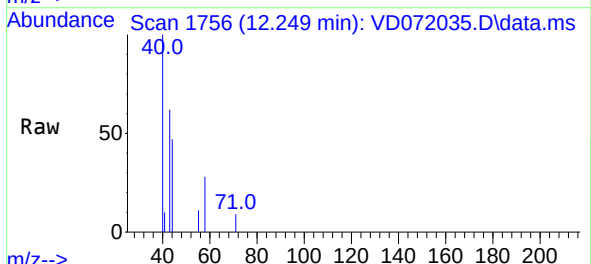
Instrument :  
MSVOA\_D  
ClientSampleId :  
CC-B3

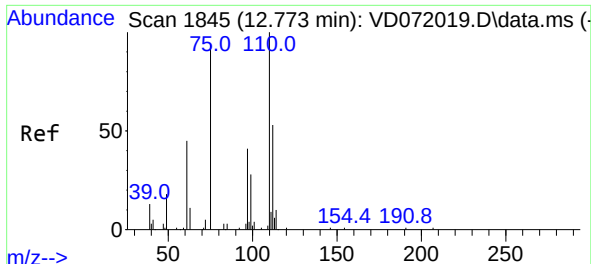
Tgt Ion:152 Resp: 105571  
Ion Ratio Lower Upper  
152 100  
115 59.7 29.9 89.7  
150 155.4 0.0 347.6



#74  
N-ethyl acetate  
Concen: 1.671 ug/l  
RT: 12.249 min Scan# 1756  
Delta R.T. -0.029 min  
Lab File: VD072035.D  
Acq: 21 Feb 2022 16:30

Tgt Ion: 43 Resp: 2924  
Ion Ratio Lower Upper  
43 100  
70 0.0 33.2 49.8#  
55 3.4 20.6 30.8#  
61 0.0 19.6 29.4#

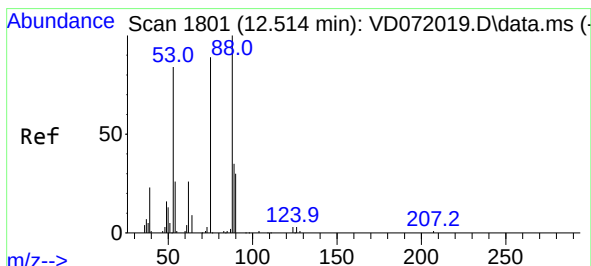
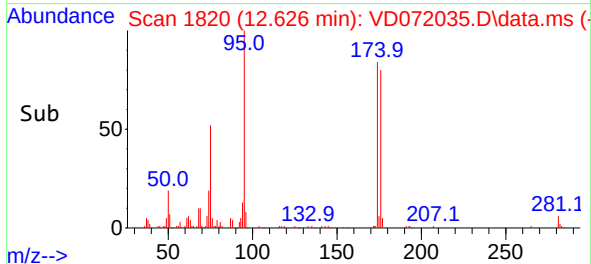
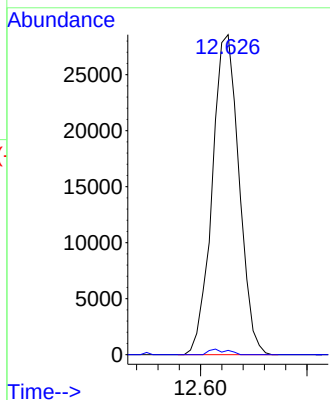
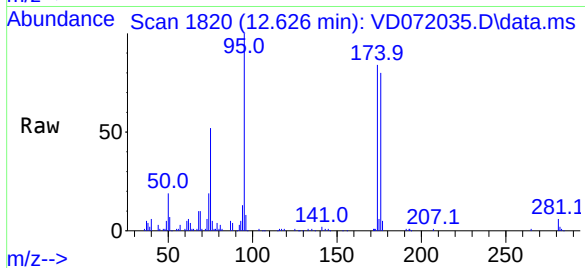




#76  
1,2,3-Trichloropropane  
Concen: 49.982 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. -0.147 min  
Lab File: VD072035.D  
Acq: 21 Feb 2022 16:30

Instrument :  
MSVOA\_D  
ClientSampleId :  
CC-B3

Tgt Ion: 75 Resp: 49982  
Ion Ratio Lower Upper  
75 100  
77 1.2 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 125.167 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. 0.112 min  
Lab File: VD072035.D  
Acq: 21 Feb 2022 16:30

Tgt Ion: 75 Resp: 49982  
Ion Ratio Lower Upper  
75 100  
53 0.0 80.2 120.4#  
89 0.0 36.4 54.6#

