

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD122921\  
 Data File : VD071534.D  
 Acq On : 29 Dec 2021 17:46  
 Operator : VA/SY  
 Sample : M5230-01RE  
 Misc : 5.16G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 PSC124042RE

Quant Time: Dec 29 17:58:04 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D122221S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 23 08:20:24 2021  
 Response via : Initial Calibration

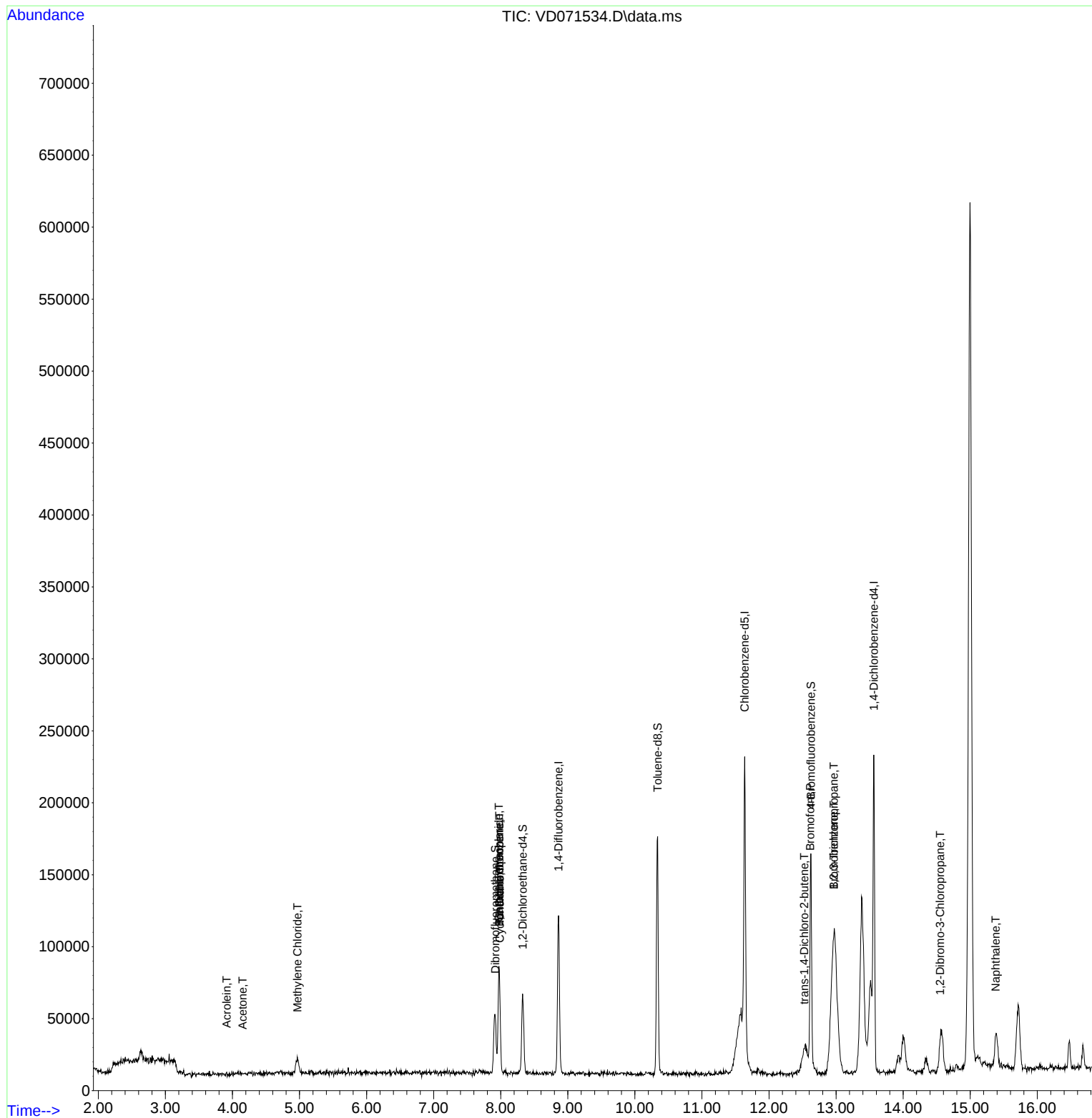
| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 7.979          | 168  | 49416               | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.861          | 114  | 86026               | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.638         | 117  | 96289               | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.561         | 152  | 50540               | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.326          | 65   | 44685               | 68.088    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 136.180% |           |        |          |
| 35) Dibromofluoromethane      | 7.920          | 113  | 32156               | 55.618    | ug/l   | 0.01     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 111.240% |           |        |          |
| 50) Toluene-d8                | 10.338         | 98   | 109243              | 49.999    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 49 - 140 |      | Recovery = 100.000% |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.626         | 95   | 44001               | 56.673    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 25 - 144 |      | Recovery = 113.340% |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      |                     |           |        |          |
|                               |                |      |                     |           | Qvalue |          |
| 11) Tert butyl alcohol        | 5.191          | 59   | 75                  | Below Cal | #      | 71       |
| 13) Acrolein                  | 3.915          | 56   | 111                 | 3.501     | ug/l # | 13       |
| 16) Acetone                   | 4.150          | 43   | 304                 | 1.844     | ug/l # | 40       |
| 20) Methylene Chloride        | 4.967          | 84   | 8041                | 7.125     | ug/l   | 90       |
| 31) Cyclohexane               | 7.985          | 56   | 1769                | 1.587     | ug/l # | 45       |
| 36) 1,1-Dichloropropene       | 7.979          | 75   | 4972                | 5.383     | ug/l # | 46       |
| 38) Carbon Tetrachloride      | 7.973          | 117  | 5560                | 6.101     | ug/l # | 12       |
| 71) Bromoform                 | 12.614         | 173  | 462                 | 1.183     | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.967         | 75   | 1635                | 2.723     | ug/l   | 67       |
| 77) Bromobenzene              | 12.967         | 156  | 124556              | 143.657   | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.526         | 75   | 880                 | 4.141     | ug/l # | 46       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.549         | 75   | 1475                | 12.074    | ug/l # | 4        |
| 95) Naphthalene               | 15.379         | 128  | 9412                | 5.475     | ug/l # | 80       |
| -----                         |                |      |                     |           |        |          |

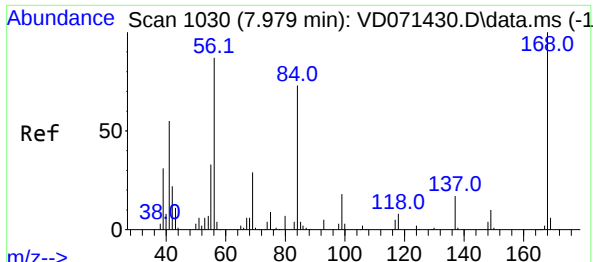
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD122921\  
Data File : VD071534.D  
Acq On : 29 Dec 2021 17:46  
Operator : VA/SY  
Sample : M5230-01RE  
Misc : 5.16G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
PSC124042RE

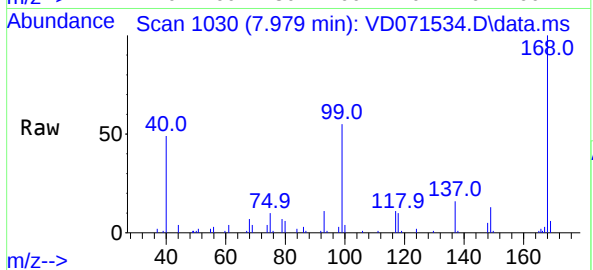
Quant Time: Dec 29 17:58:04 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D122221S.M  
Quant Title : SW846 8260  
QLast Update : Thu Dec 23 08:20:24 2021  
Response via : Initial Calibration



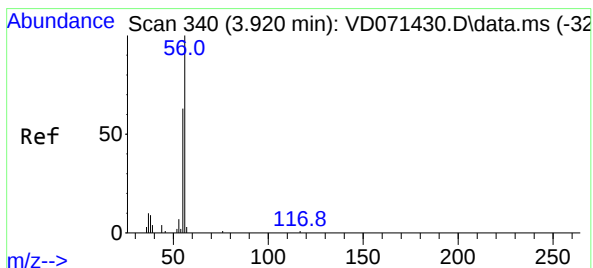
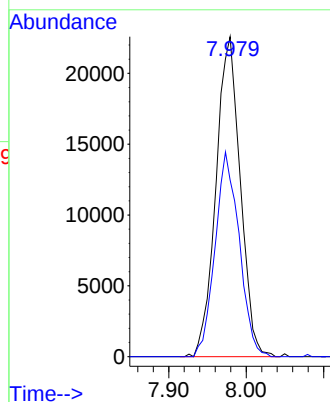
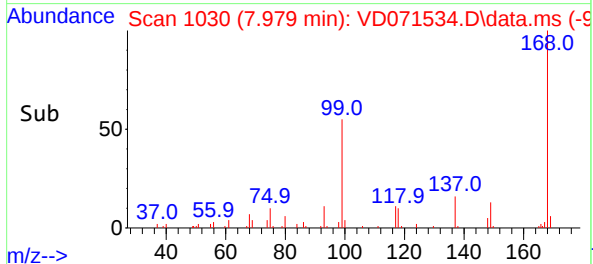


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. 0.006 min  
Lab File: VD071534.D  
Acq: 29 Dec 2021 17:46

Instrument :  
MSVOA\_D  
ClientSampleId :  
PSC124042RE

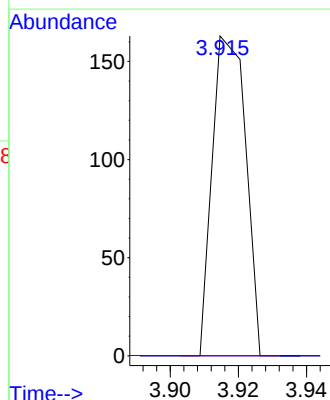
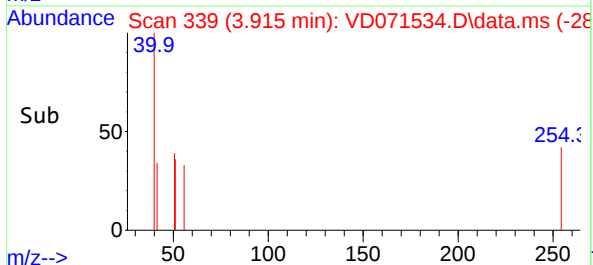
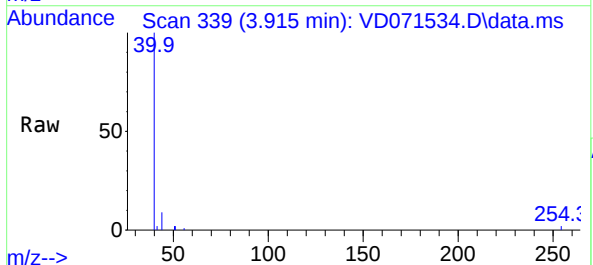


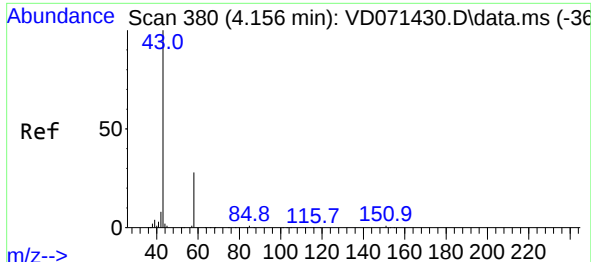
Tgt Ion:168 Resp: 49416  
Ion Ratio Lower Upper  
168 100  
99 55.2 46.6 69.8



#13  
Acrolein  
Concen: 3.501 ug/l  
RT: 3.915 min Scan# 339  
Delta R.T. 0.001 min  
Lab File: VD071534.D  
Acq: 29 Dec 2021 17:46

Tgt Ion: 56 Resp: 111  
Ion Ratio Lower Upper  
56 100  
55 0.0 58.6 87.8#





#16

Acetone

Concen: 1.844 ug/l

RT: 4.150 min Scan# 31

Delta R.T. -0.006 min

Lab File: VD071534.D

Acq: 29 Dec 2021 17:46

Instrument :

MSVOA\_D

ClientSampleId :

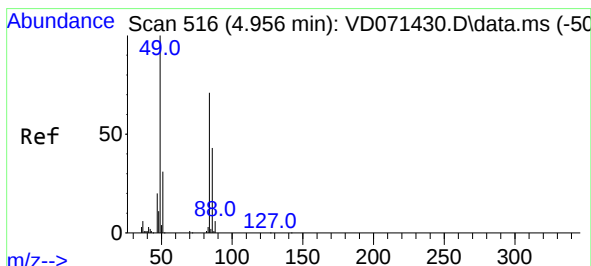
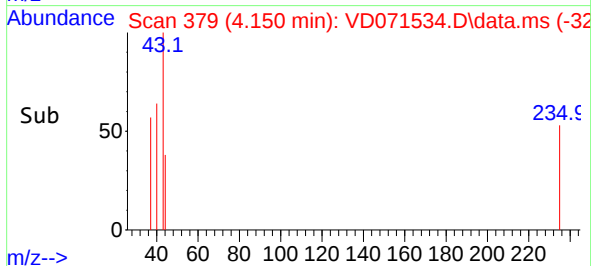
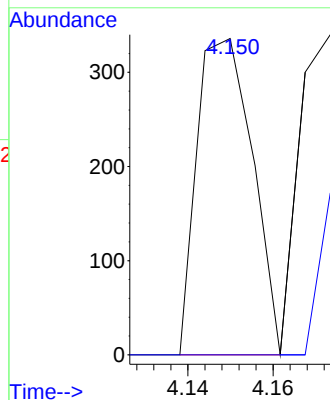
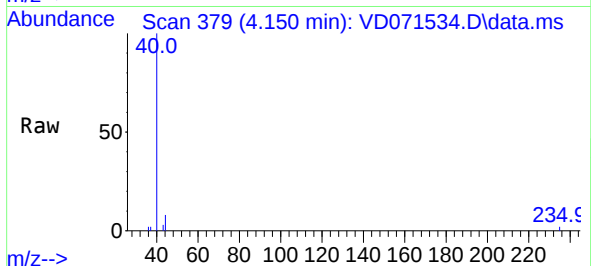
PSC124042RE

Tgt Ion: 43 Resp: 304

Ion Ratio Lower Upper

43 100

58 0.0 27.8 41.8#



#20

Methylene Chloride

Concen: 7.125 ug/l

RT: 4.967 min Scan# 518

Delta R.T. 0.006 min

Lab File: VD071534.D

Acq: 29 Dec 2021 17:46

Tgt Ion: 84 Resp: 8041

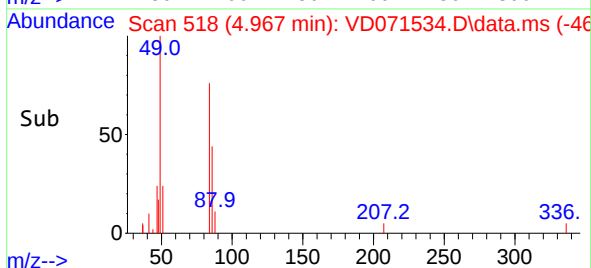
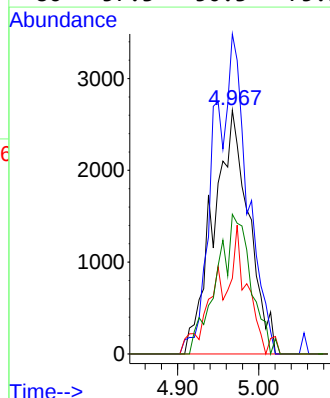
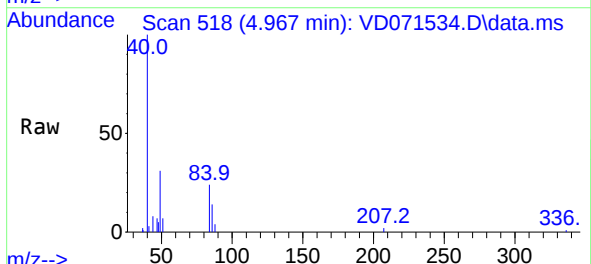
Ion Ratio Lower Upper

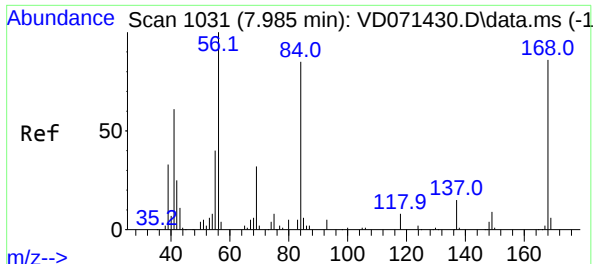
84 100

49 131.3 95.8 143.6

51 31.0 30.9 46.3

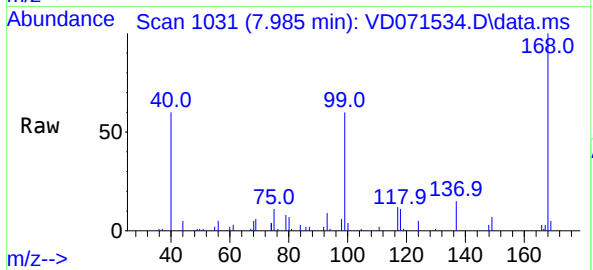
86 57.3 50.3 75.5



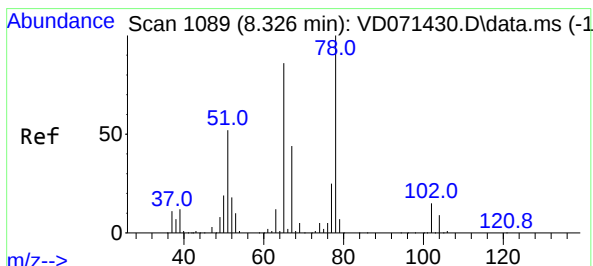
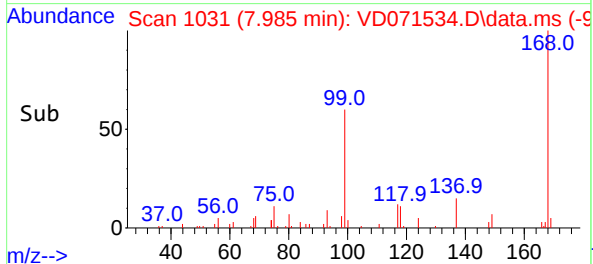
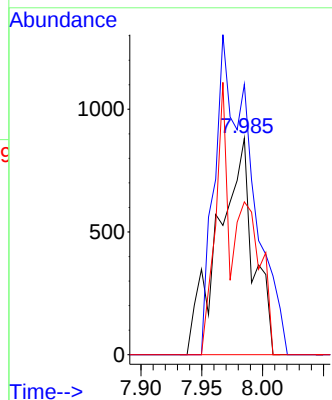


#31  
Cyclohexane  
Concen: 1.587 ug/l  
RT: 7.985 min Scan# 1031  
Delta R.T. -0.000 min  
Lab File: VD071534.D  
Acq: 29 Dec 2021 17:46

Instrument :  
MSVOA\_D  
ClientSampleId :  
PSC124042RE

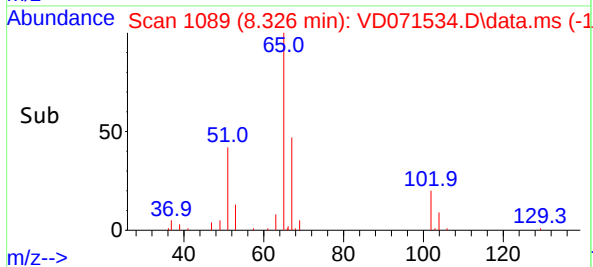
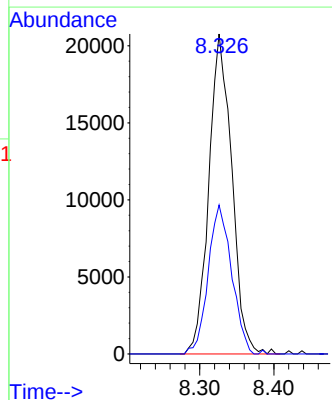
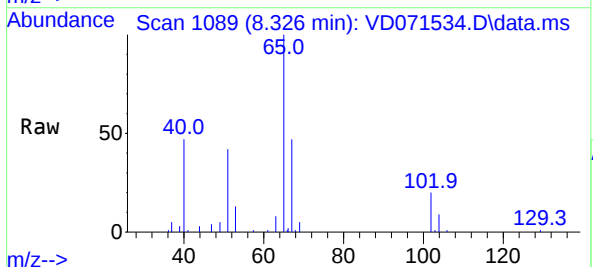


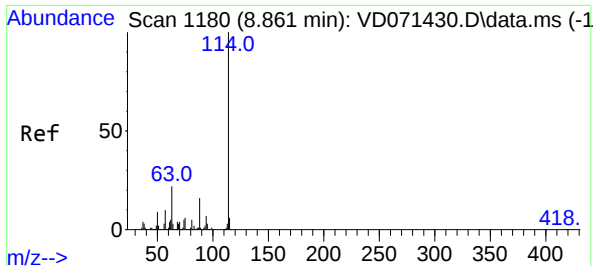
Tgt Ion: 56 Resp: 1769  
Ion Ratio Lower Upper  
56 100  
69 124.9 25.9 38.9#  
84 70.6 64.3 96.5



#33  
1,2-Dichloroethane-d4  
Concen: 68.088 ug/l  
RT: 8.326 min Scan# 1089  
Delta R.T. 0.000 min  
Lab File: VD071534.D  
Acq: 29 Dec 2021 17:46

Tgt Ion: 65 Resp: 44685  
Ion Ratio Lower Upper  
65 100  
67 47.5 0.0 112.2

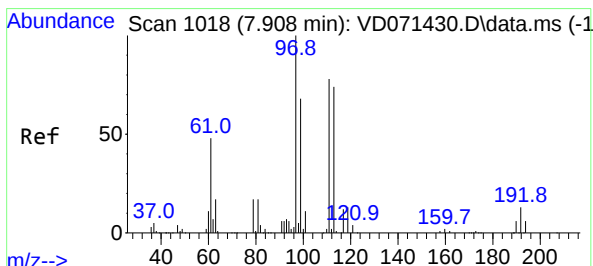
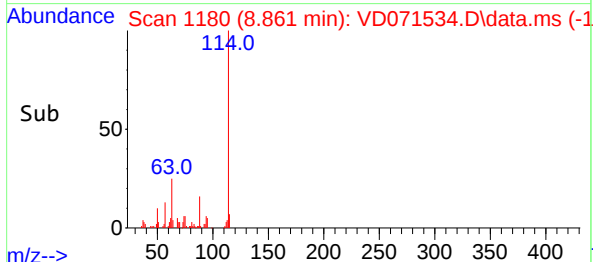
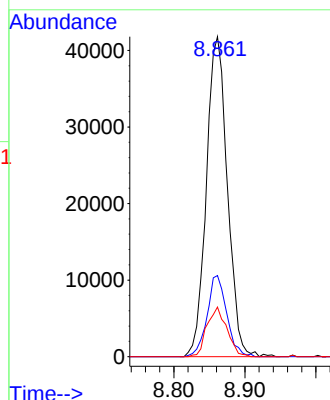
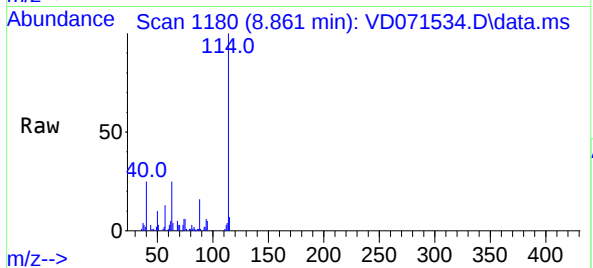




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.861 min Scan# 1180  
Delta R.T. 0.000 min  
Lab File: VD071534.D  
Acq: 29 Dec 2021 17:46

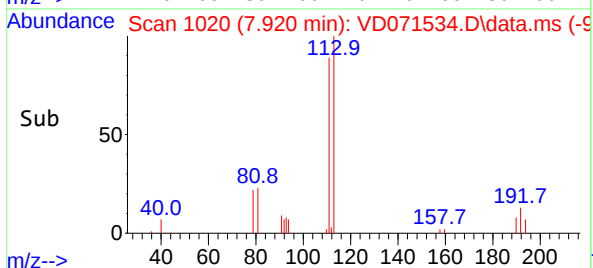
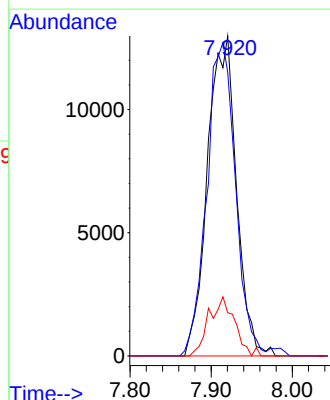
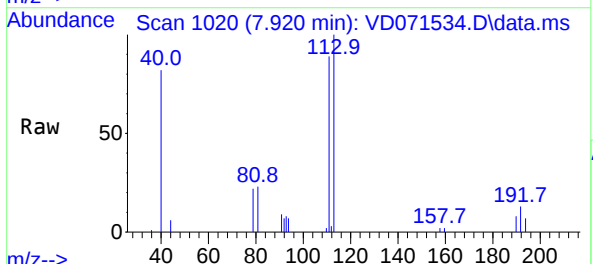
Instrument :  
MSVOA\_D  
ClientSampleId :  
PSC124042RE

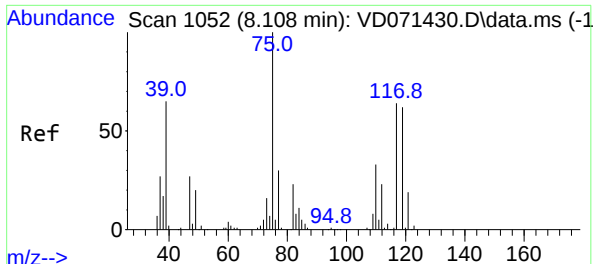
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 114   | Resp: | 86026 |
| Ion Ratio | Lower | Upper |       |
| 114       | 100   |       |       |
| 63        | 25.4  | 0.0   | 41.8  |
| 88        | 15.5  | 0.0   | 32.8  |



#35  
Dibromofluoromethane  
Concen: 55.618 ug/l  
RT: 7.920 min Scan# 1020  
Delta R.T. 0.012 min  
Lab File: VD071534.D  
Acq: 29 Dec 2021 17:46

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 113   | Resp: | 32156 |
| Ion Ratio | Lower | Upper |       |
| 113       | 100   |       |       |
| 111       | 97.1  | 82.0  | 123.0 |
| 192       | 16.5  | 15.2  | 22.8  |





#36

1,1-Dichloropropene

Concen: 5.383 ug/l

RT: 7.979 min Scan# 1029

Delta R.T. -0.129 min

Lab File: VD071534.D

Acq: 29 Dec 2021 17:46

Instrument :

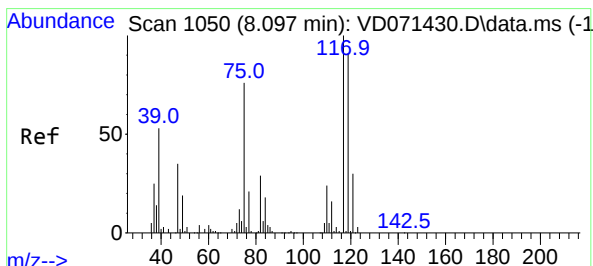
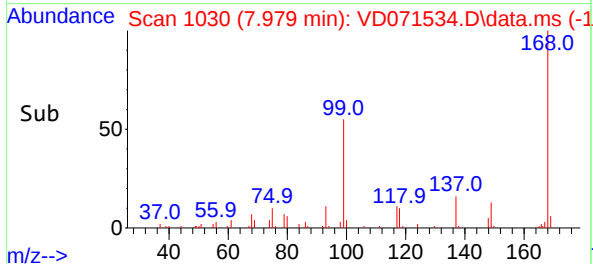
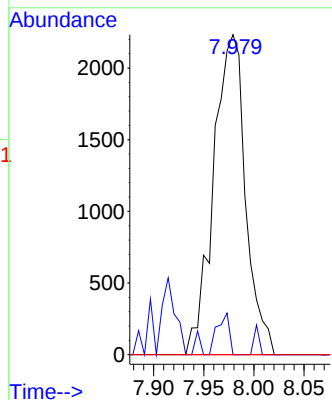
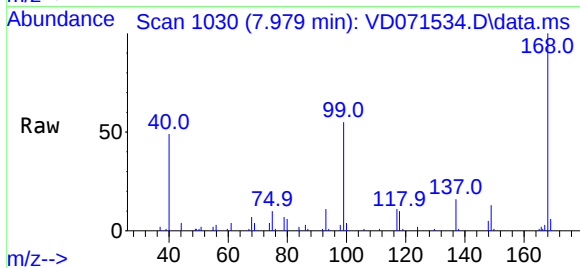
MSVOA\_D

ClientSampleId :

PSC124042RE

Tgt Ion: 75 Resp: 4972

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 75  | 100   |       |       |
| 110 | 4.9   | 17.8  | 53.4# |
| 77  | 0.0   | 24.8  | 37.2# |



#38

Carbon Tetrachloride

Concen: 6.101 ug/l

RT: 7.973 min Scan# 1029

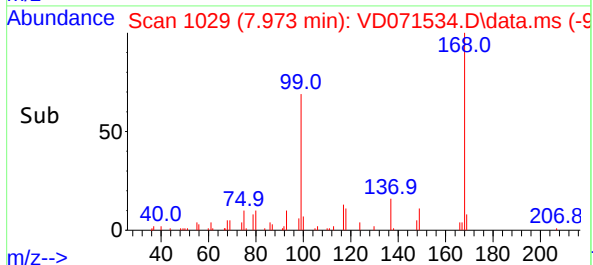
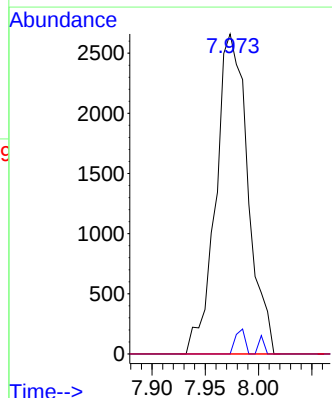
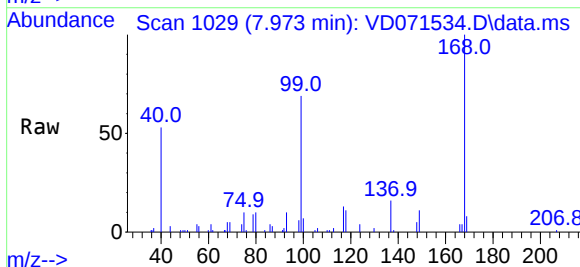
Delta R.T. -0.124 min

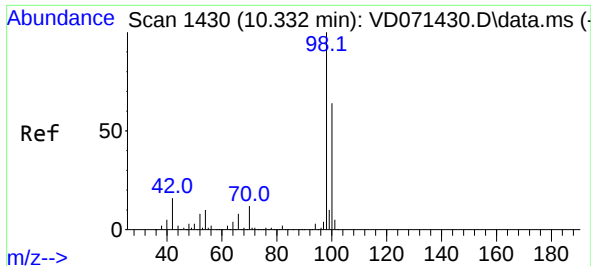
Lab File: VD071534.D

Acq: 29 Dec 2021 17:46

Tgt Ion: 117 Resp: 5560

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 117 | 100   |       |        |
| 119 | 0.0   | 75.8  | 113.6# |
| 121 | 0.0   | 23.6  | 35.4#  |

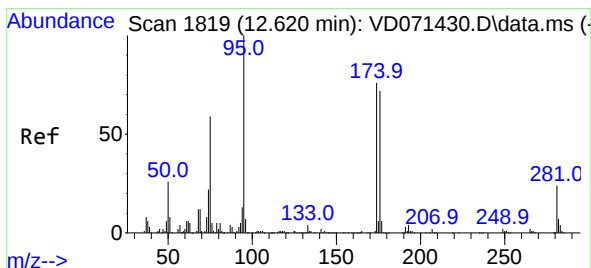
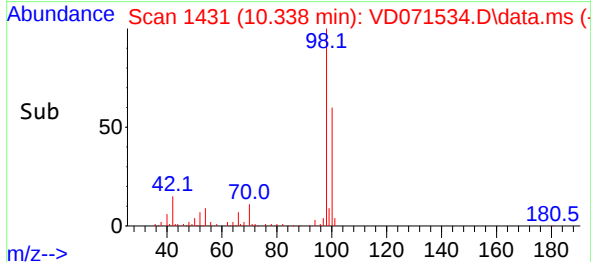
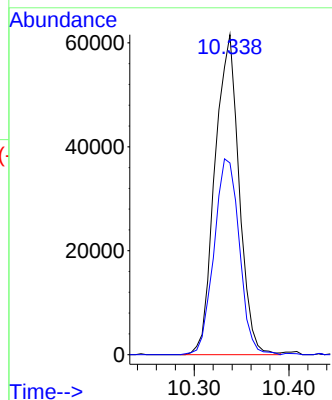
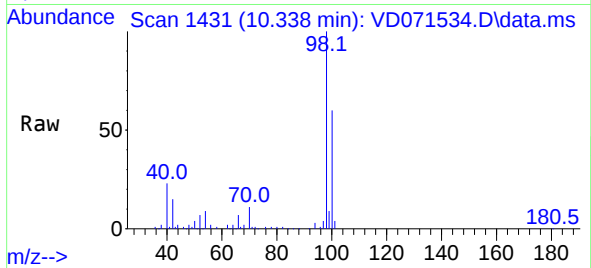




#50  
Toluene-d8  
Concen: 49.999 ug/l  
RT: 10.338 min Scan# 1430  
Delta R.T. 0.006 min  
Lab File: VD071534.D  
Acq: 29 Dec 2021 17:46

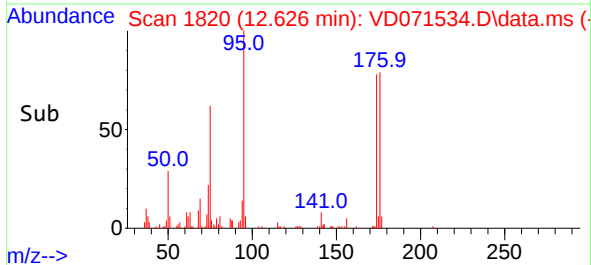
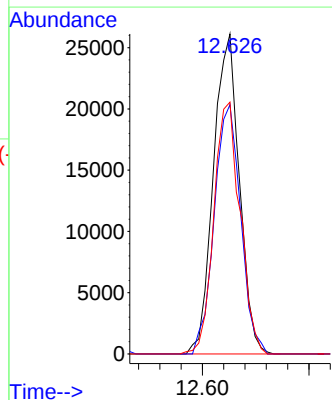
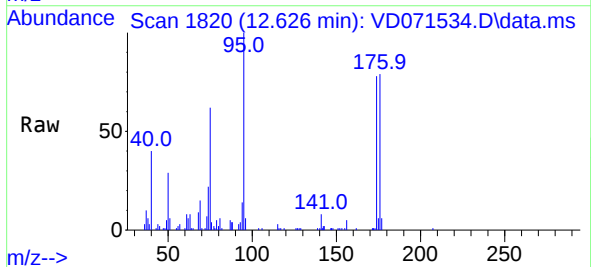
Instrument :  
MSVOA\_D  
ClientSampleId :  
PSC124042RE

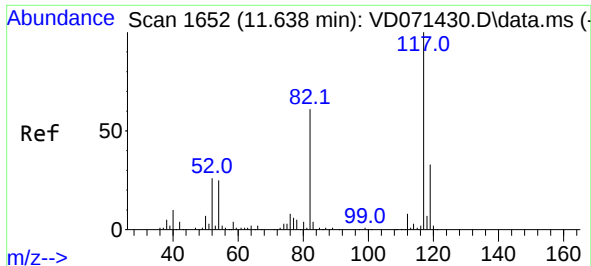
Tgt Ion: 98 Resp: 109243  
Ion Ratio Lower Upper  
98 100  
100 64.2 51.8 77.6



#62  
4-Bromofluorobenzene  
Concen: 56.673 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. -0.000 min  
Lab File: VD071534.D  
Acq: 29 Dec 2021 17:46

Tgt Ion: 95 Resp: 44001  
Ion Ratio Lower Upper  
95 100  
174 79.5 0.0 159.4  
176 79.8 0.0 154.0

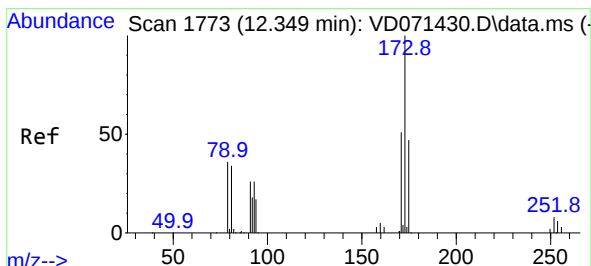
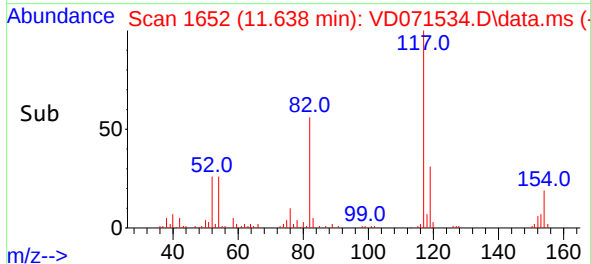
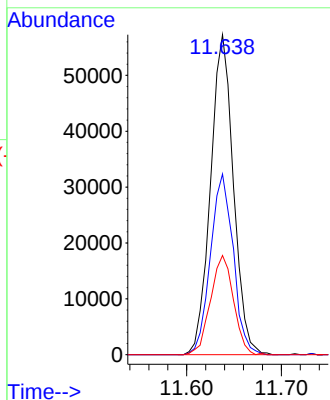
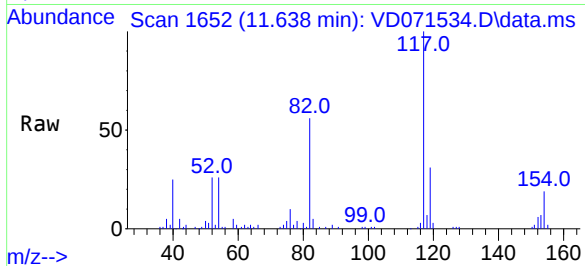




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.638 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VD071534.D  
Acq: 29 Dec 2021 17:46

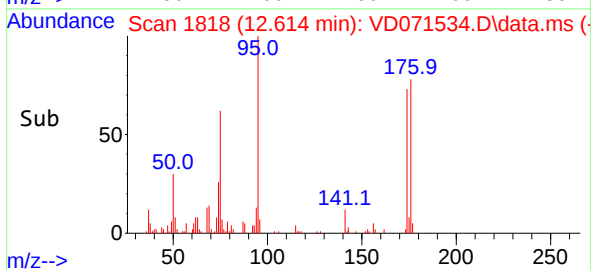
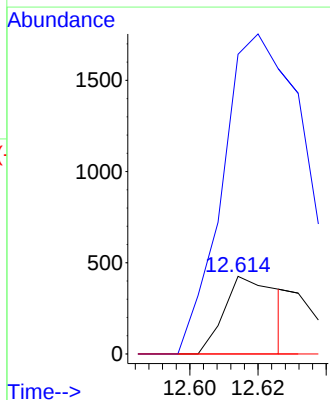
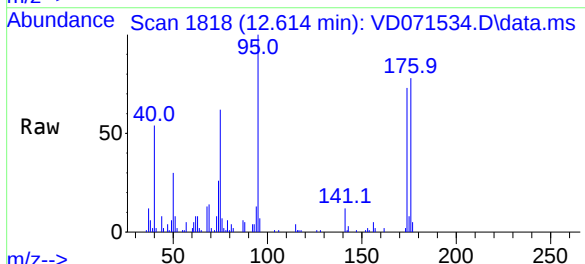
Instrument :  
MSVOA\_D  
ClientSampleId :  
PSC124042RE

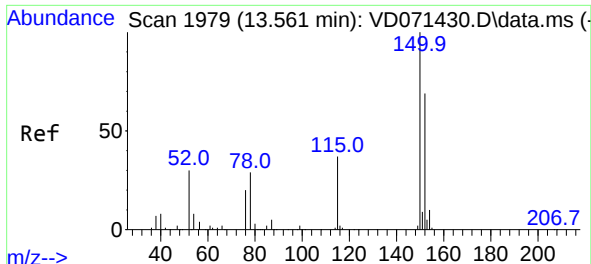
Tgt Ion:117 Resp: 96289  
Ion Ratio Lower Upper  
117 100  
82 56.4 44.7 67.1  
119 31.0 26.2 39.4



#71  
Bromoform  
Concen: 1.183 ug/l  
RT: 12.614 min Scan# 1818  
Delta R.T. 0.265 min  
Lab File: VD071534.D  
Acq: 29 Dec 2021 17:46

Tgt Ion:173 Resp: 462  
Ion Ratio Lower Upper  
173 100  
175 458.4 24.1 72.2#  
254 0.0 0.1 0.1#

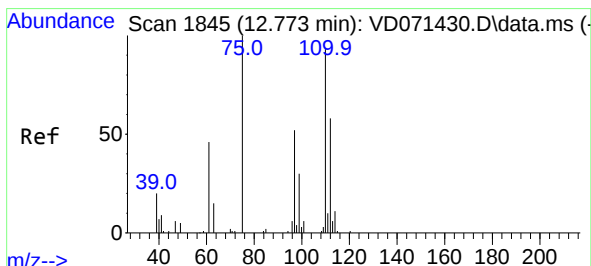
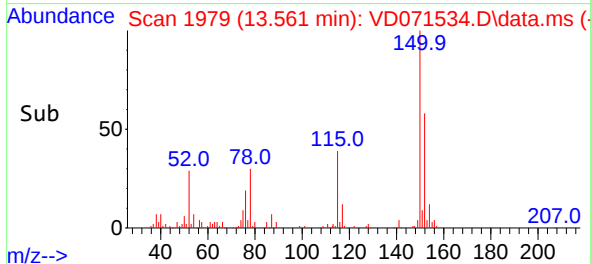
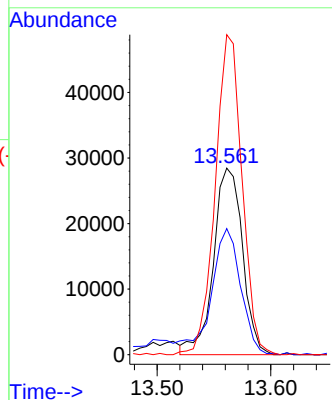
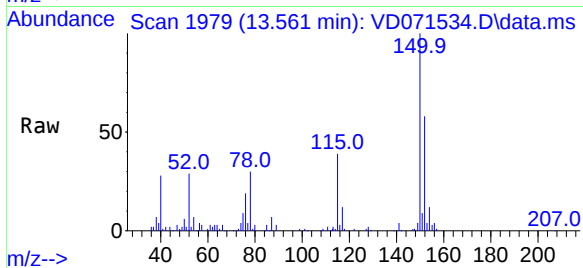




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.561 min Scan# 1979  
Delta R.T. 0.000 min  
Lab File: VD071534.D  
Acq: 29 Dec 2021 17:46

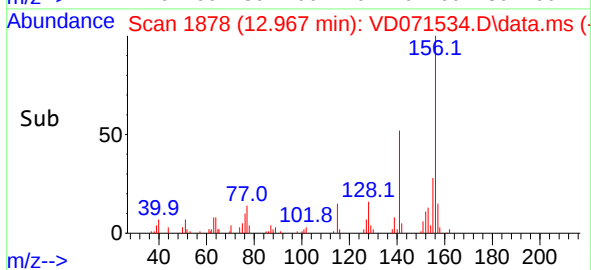
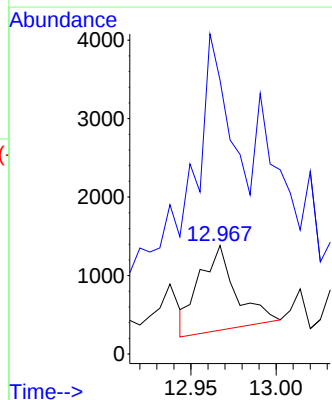
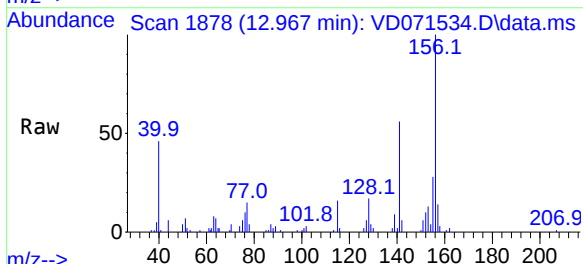
Instrument :  
MSVOA\_D  
ClientSampleId :  
PSC124042RE

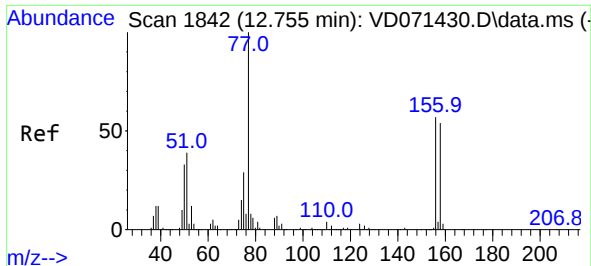
Tgt Ion:152 Resp: 50540  
Ion Ratio Lower Upper  
152 100  
115 67.9 29.8 89.3  
150 158.5 0.0 349.2



#76  
1,2,3-Trichloropropane  
Concen: 2.723 ug/l  
RT: 12.967 min Scan# 1878  
Delta R.T. 0.194 min  
Lab File: VD071534.D  
Acq: 29 Dec 2021 17:46

Tgt Ion: 75 Resp: 1635  
Ion Ratio Lower Upper  
75 100  
77 248.8 158.4 475.3

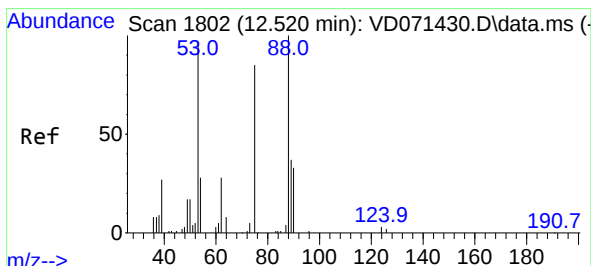
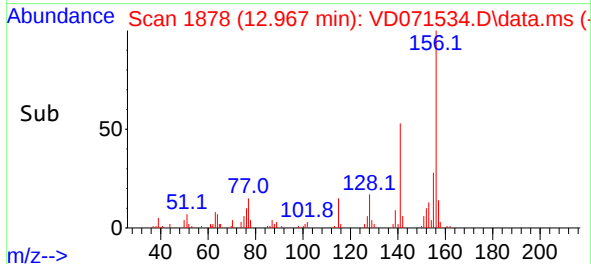
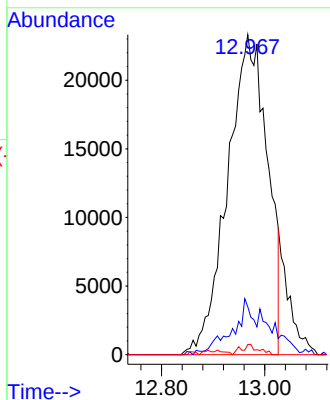
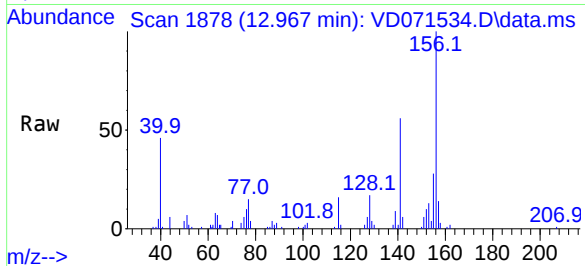




#77  
Bromobenzene  
Concen: 143.657 ug/l  
RT: 12.967 min Scan# 11  
Delta R.T. 0.218 min  
Lab File: VD071534.D  
Acq: 29 Dec 2021 17:46

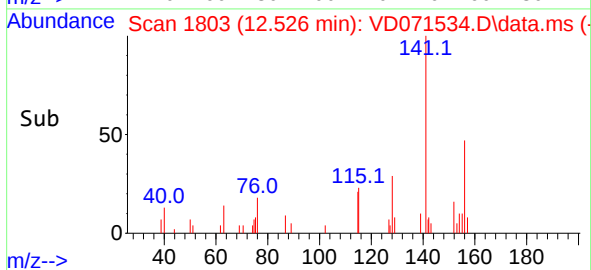
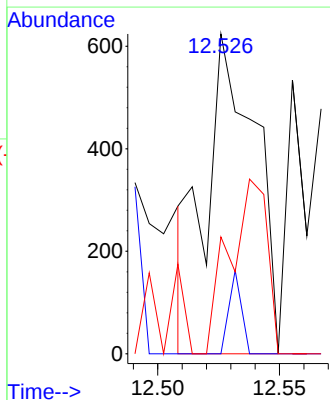
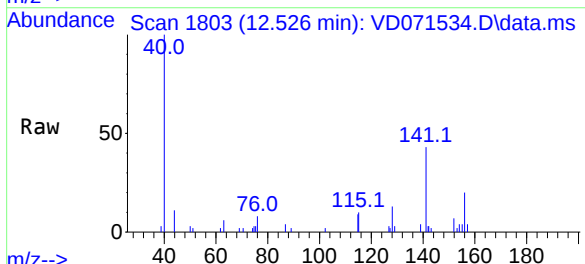
Instrument :  
MSVOA\_D  
ClientSampleId :  
PSC124042RE

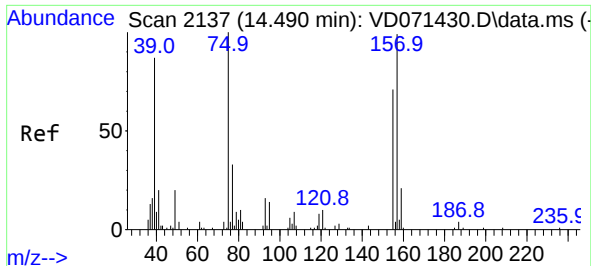
Tgt Ion:156 Resp: 124556  
Ion Ratio Lower Upper  
156 100  
77 3.3 96.6 289.8#  
158 0.9 49.1 147.4#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 4.141 ug/l  
RT: 12.526 min Scan# 1803  
Delta R.T. 0.006 min  
Lab File: VD071534.D  
Acq: 29 Dec 2021 17:46

Tgt Ion: 75 Resp: 880  
Ion Ratio Lower Upper  
75 100  
53 6.5 62.6 94.0#  
89 41.7 34.5 51.7

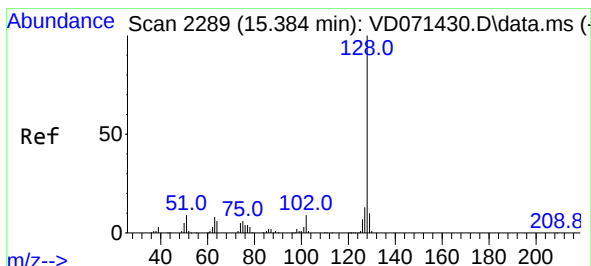
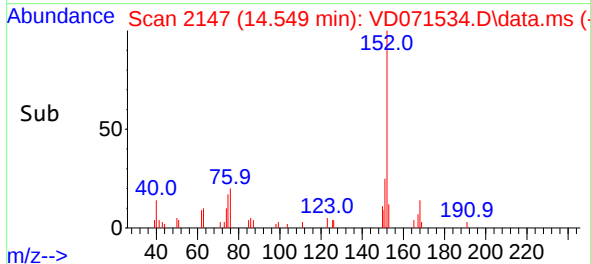
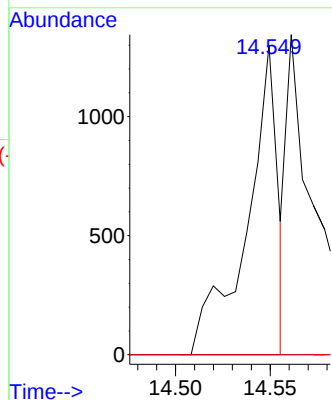
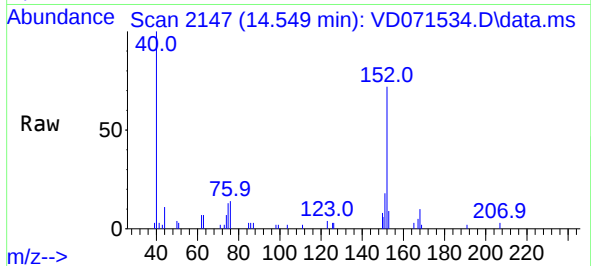




#92  
1,2-Dibromo-3-Chloropropane  
Concen: 12.074 ug/l  
RT: 14.549 min Scan# 2137  
Delta R.T. 0.059 min  
Lab File: VD071534.D  
Acq: 29 Dec 2021 17:46

Instrument :  
MSVOA\_D  
ClientSampleId :  
PSC124042RE

Tgt Ion: 75 Resp: 1475  
Ion Ratio Lower Upper  
75 100  
155 0.0 40.0 120.0#  
157 0.0 49.8 149.3#



#95  
Naphthalene  
Concen: 5.475 ug/l  
RT: 15.379 min Scan# 2288  
Delta R.T. -0.000 min  
Lab File: VD071534.D  
Acq: 29 Dec 2021 17:46

Tgt Ion: 128 Resp: 9412  
Ion Ratio Lower Upper  
128 100  
127 18.9 10.7 16.1#  
129 0.0 8.7 13.1#

