

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD040723\  
 Data File : VD075600.D  
 Acq On : 07 Apr 2023 14:49  
 Operator : KP/SY  
 Sample : 02191-01  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 72-11982

Quant Time: Apr 10 02:05:57 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D031023S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 10 23:52:37 2023  
 Response via : Initial Calibration

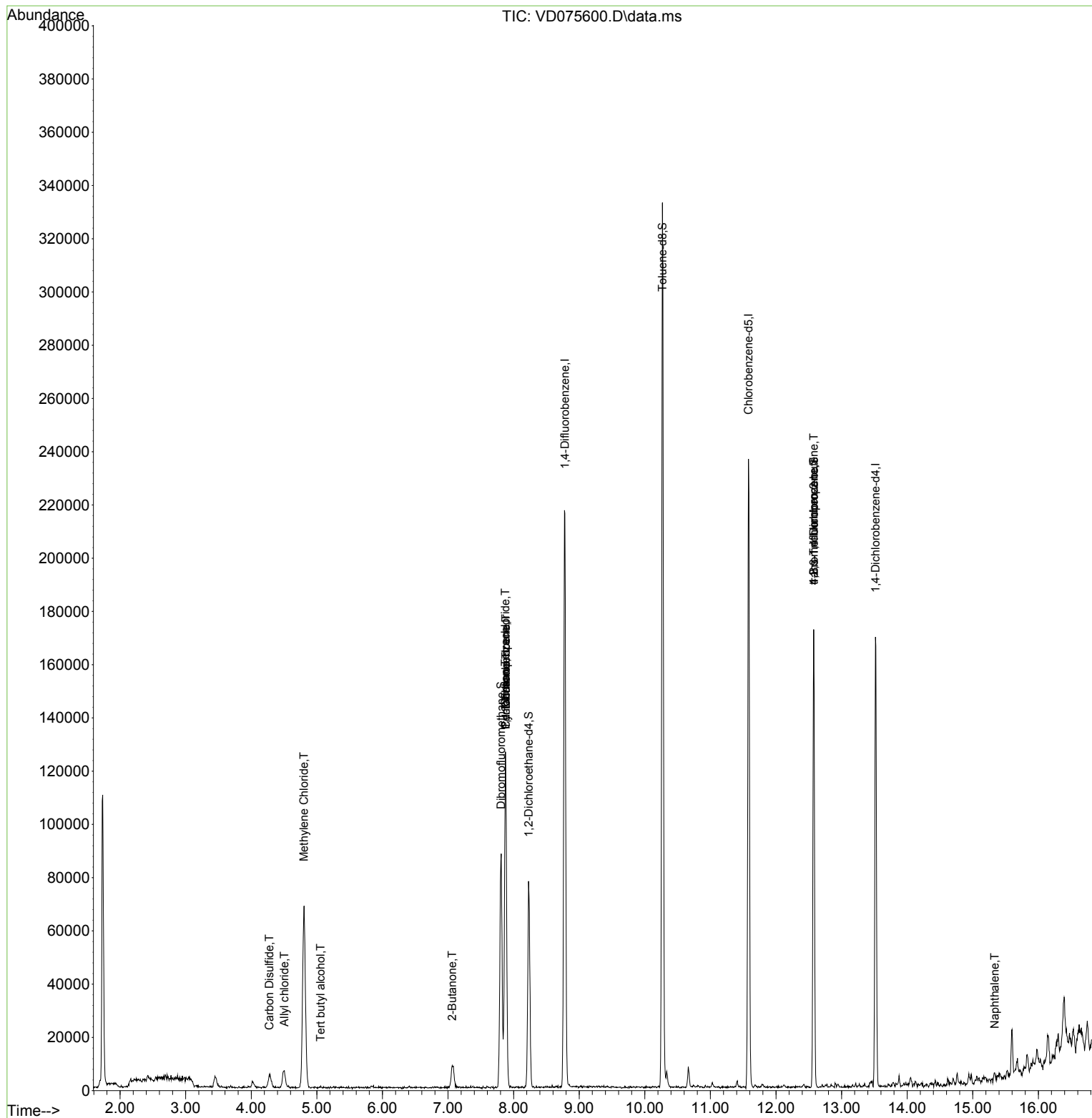
| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 7.881          | 168  | 101872              | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.781          | 114  | 222143              | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.581         | 117  | 150843              | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.516         | 152  | 50113               | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.228          | 65   | 58473               | 63.257    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 126.520% |           |        |          |
| 35) Dibromofluoromethane      | 7.810          | 113  | 66074               | 43.428    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 86.860%  |           |        |          |
| 50) Toluene-d8                | 10.269         | 98   | 245710              | 40.881    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 49 - 140 |      | Recovery = 81.760%  |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.575         | 95   | 54708               | 31.486    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 25 - 144 |      | Recovery = 62.980%  |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      |                     |           |        |          |
|                               |                |      |                     |           | Qvalue |          |
| 3) Chloromethane              | 2.146          | 50   | 439                 | Below Cal | #      | 40       |
| 11) Tert butyl alcohol        | 5.058          | 59   | 57                  | 1.335     | ug/l # | 100      |
| 14) Allyl chloride            | 4.505          | 41   | 11363               | 10.430    | ug/l # | 35       |
| 16) Acetone                   | 4.016          | 43   | 1894                | Below Cal | #      | 87       |
| 17) Carbon Disulfide          | 4.275          | 76   | 6003                | 1.571     | ug/l # | 73       |
| 20) Methylene Chloride        | 4.805          | 84   | 61030               | 45.918    | ug/l # | 71       |
| 25) 2-Butanone                | 7.063          | 43   | 407                 | 1.888     | ug/l # | 50       |
| 31) Cyclohexane               | 7.881          | 56   | 2026                | 1.231     | ug/l # | 17       |
| 36) 1,1-Dichloropropene       | 7.881          | 75   | 7752                | 3.438     | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 7.875          | 117  | 9719                | 4.499     | ug/l # | 13       |
| 76) 1,2,3-Trichloropropane    | 12.575         | 75   | 26529               | 64.548    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.575         | 75   | 26529               | 135.770   | ug/l # | 5        |
| 95) Naphthalene               | 15.334         | 128  | 2994                | 1.676     | ug/l # | 91       |
| -----                         |                |      |                     |           |        |          |

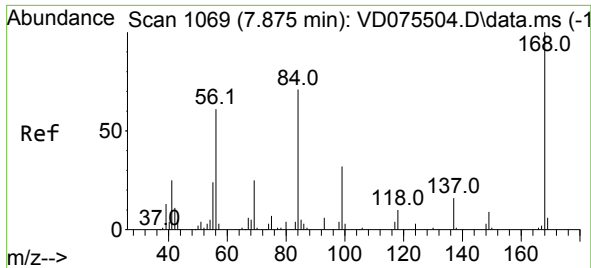
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD040723\  
Data File : VD075600.D  
Acq On : 07 Apr 2023 14:49  
Operator : KP/SY  
Sample : 02191-01  
Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
72-11982

Quant Time: Apr 10 02:05:57 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D031023S.M  
Quant Title : SW846 8260  
QLast Update : Fri Mar 10 23:52:37 2023  
Response via : Initial Calibration

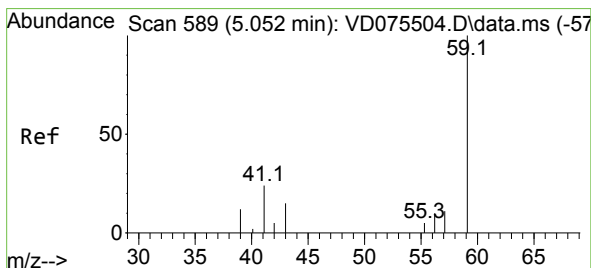
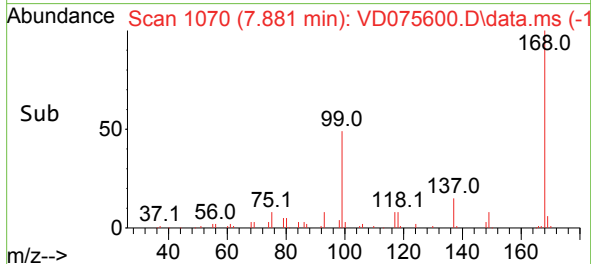
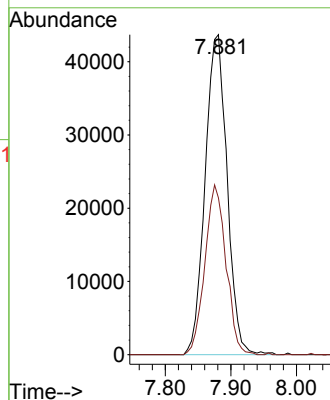
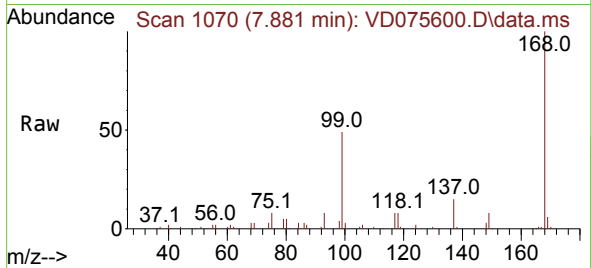




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.881 min Scan# 1069  
Delta R.T. 0.006 min  
Lab File: VD075600.D  
Acq: 07 Apr 2023 14:49

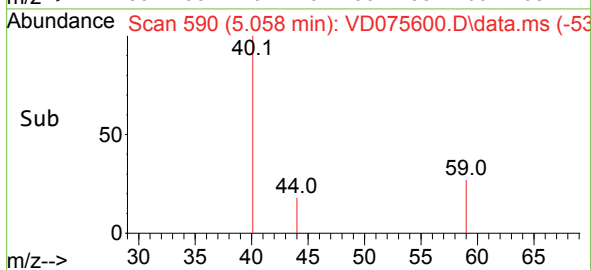
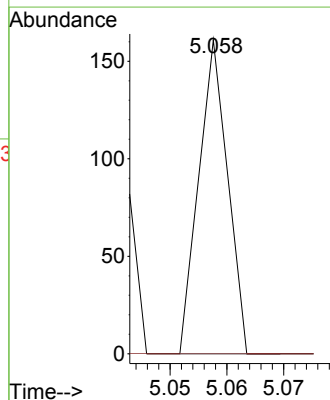
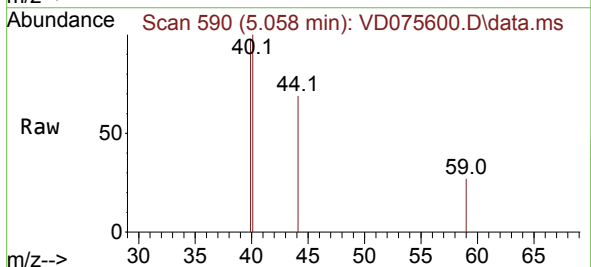
Instrument :  
MSVOA\_D  
ClientSampleId :  
72-11982

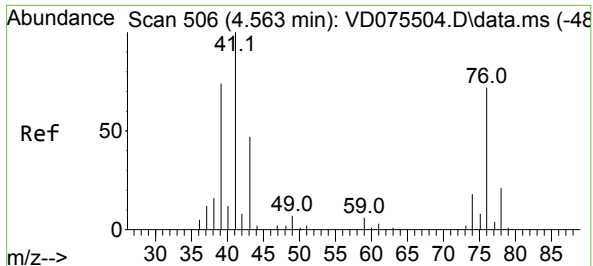
Tgt Ion:168 Resp: 101872  
Ion Ratio Lower Upper  
168 100  
99 49.0 43.8 65.6



#11  
Tert butyl alcohol  
Concen: 1.335 ug/l  
RT: 5.058 min Scan# 590  
Delta R.T. -0.000 min  
Lab File: VD075600.D  
Acq: 07 Apr 2023 14:49

Tgt Ion: 59 Resp: 57  
Ion Ratio Lower Upper  
59 100  
57 0.0 0.0 0.0

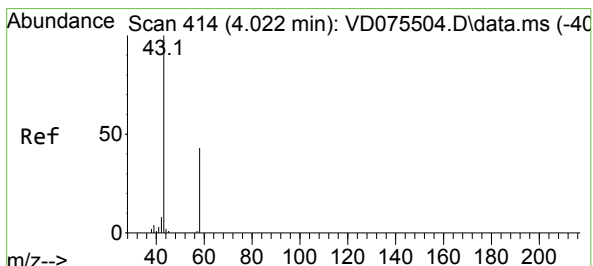
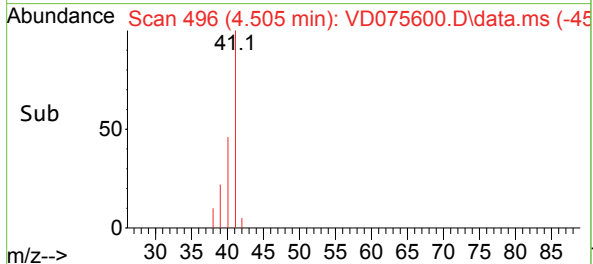
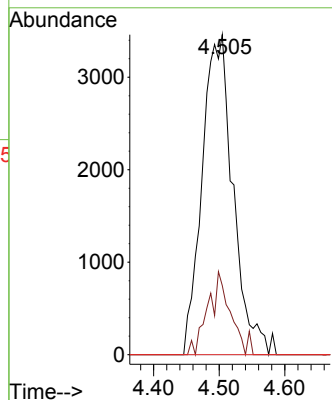
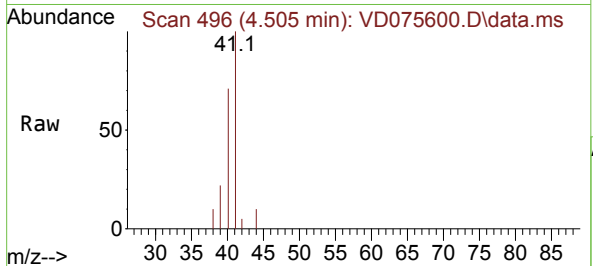




#14  
 Allyl chloride  
 Concen: 10.430 ug/l  
 RT: 4.505 min Scan# 41  
 Delta R.T. -0.059 min  
 Lab File: VD075600.D  
 Acq: 07 Apr 2023 14:49

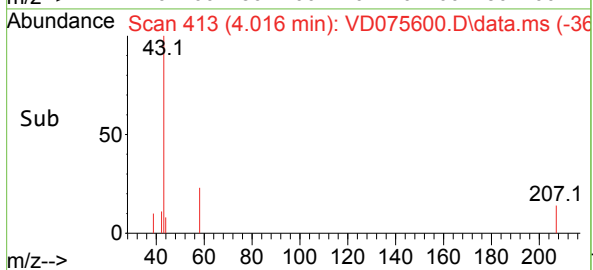
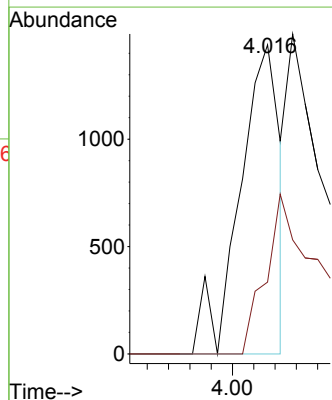
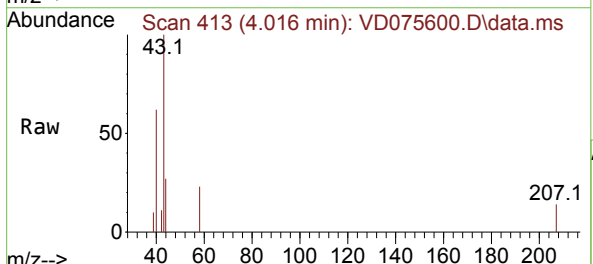
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 72-11982

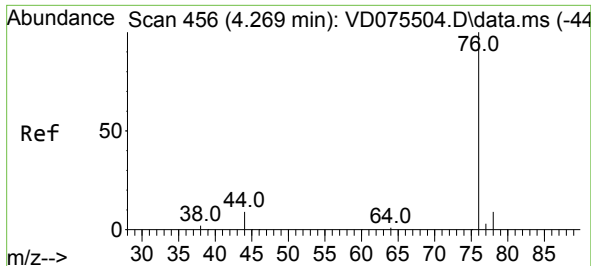
Tgt Ion: 41 Resp: 11363  
 Ion Ratio Lower Upper  
 41 100  
 39 18.1 60.6 90.8#  
 76 0.0 28.6 43.0#



#16  
 Acetone  
 Concen: Below Cal  
 RT: 4.016 min Scan# 413  
 Delta R.T. -0.006 min  
 Lab File: VD075600.D  
 Acq: 07 Apr 2023 14:49

Tgt Ion: 43 Resp: 1894  
 Ion Ratio Lower Upper  
 43 100  
 58 23.2 24.4 36.6#





#17

Carbon Disulfide

Concen: 1.571 ug/l

RT: 4.275 min Scan# 4

Delta R.T. -0.000 min

Lab File: VD075600.D

Acq: 07 Apr 2023 14:49

Instrument :

MSVOA\_D

ClientSampleId :

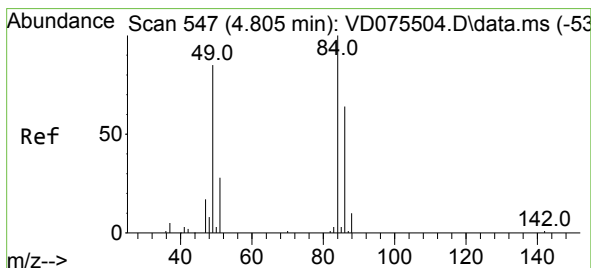
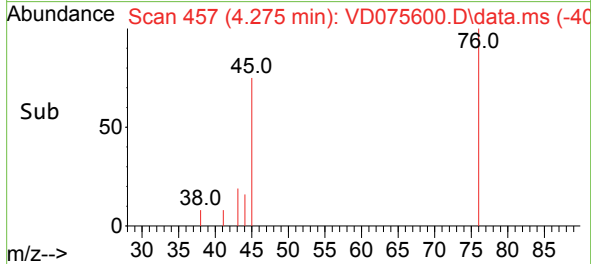
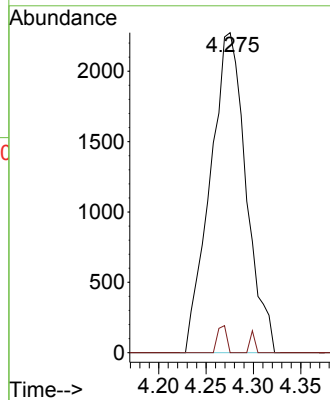
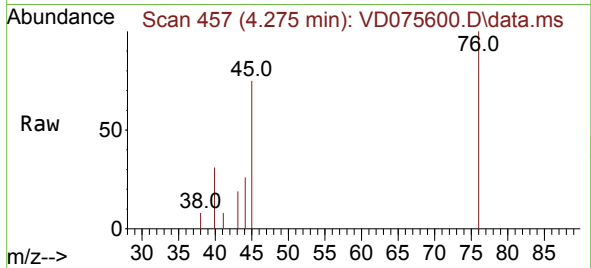
72-11982

Tgt Ion: 76 Resp: 6003

Ion Ratio Lower Upper

76 100

78 0.0 8.0 12.0#



#20

Methylene Chloride

Concen: 45.918 ug/l

RT: 4.805 min Scan# 547

Delta R.T. -0.000 min

Lab File: VD075600.D

Acq: 07 Apr 2023 14:49

Tgt Ion: 84 Resp: 61030

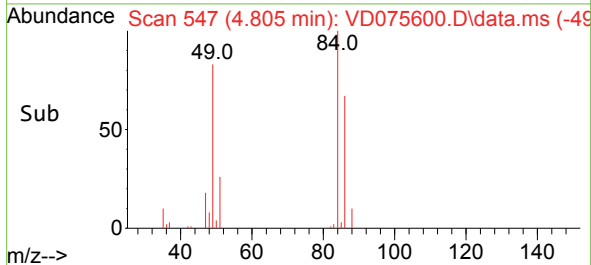
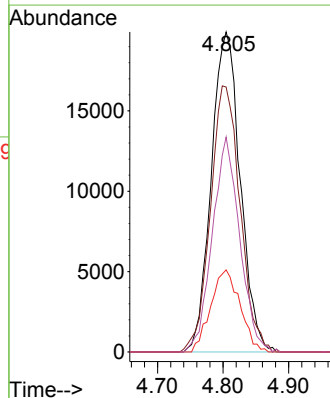
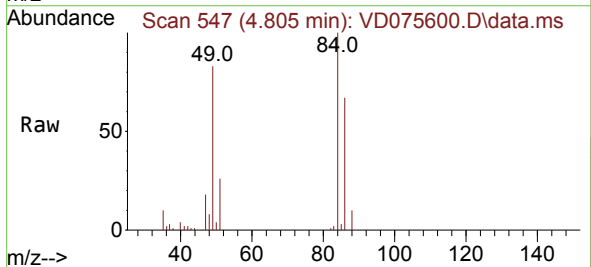
Ion Ratio Lower Upper

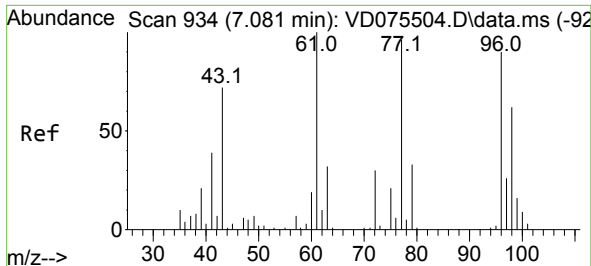
84 100

49 82.8 106.4 159.6#

51 25.6 32.4 48.6#

86 67.2 50.9 76.3





#25

2-Butanone

Concen: 1.888 ug/l

RT: 7.063 min Scan# 91

Delta R.T. -0.018 min

Lab File: VD075600.D

Acq: 07 Apr 2023 14:49

Instrument :

MSVOA\_D

ClientSampleId :

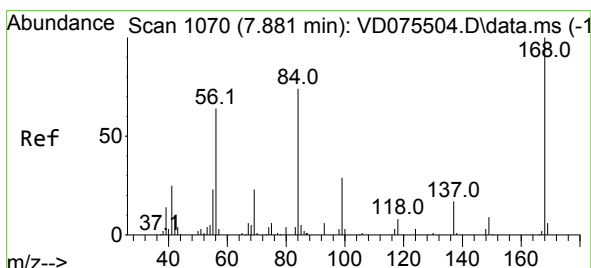
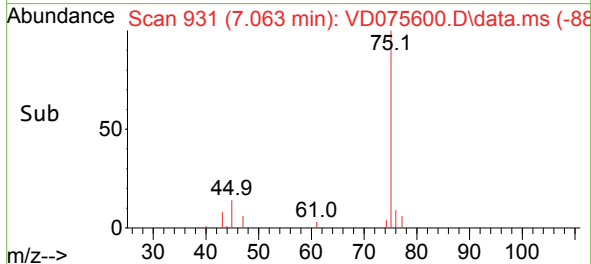
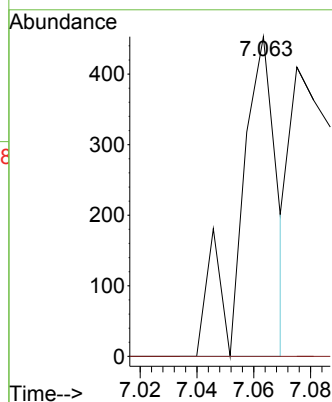
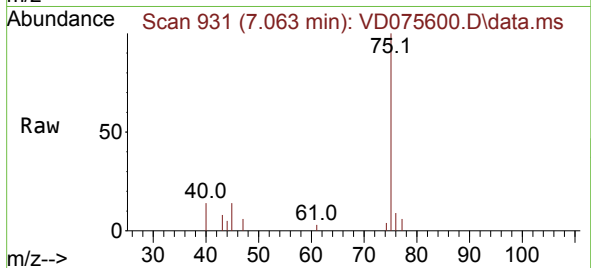
72-11982

Tgt Ion: 43 Resp: 407

Ion Ratio Lower Upper

43 100

72 0.0 19.8 29.8#



#31

Cyclohexane

Concen: 1.231 ug/l

RT: 7.881 min Scan# 1070

Delta R.T. -0.000 min

Lab File: VD075600.D

Acq: 07 Apr 2023 14:49

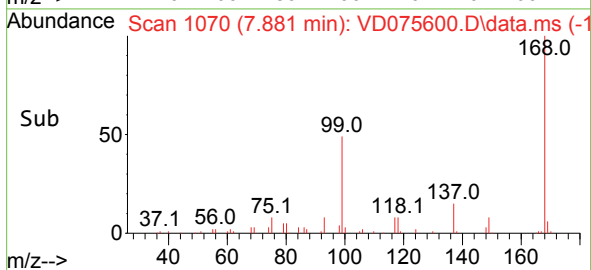
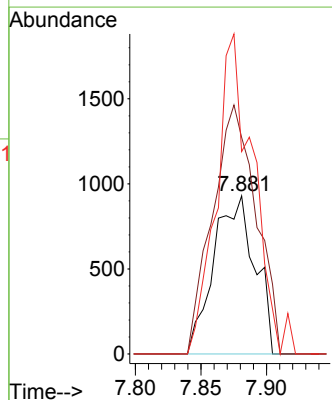
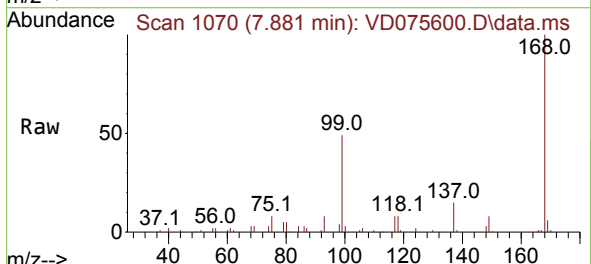
Tgt Ion: 56 Resp: 2026

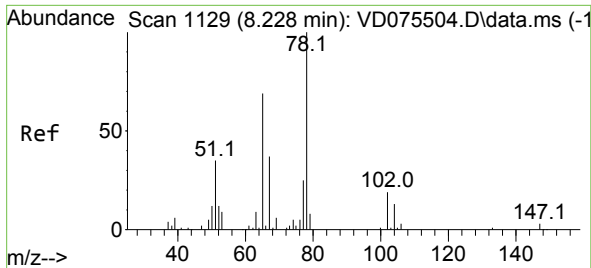
Ion Ratio Lower Upper

56 100

69 137.0 25.5 38.3#

84 128.1 69.6 104.4#

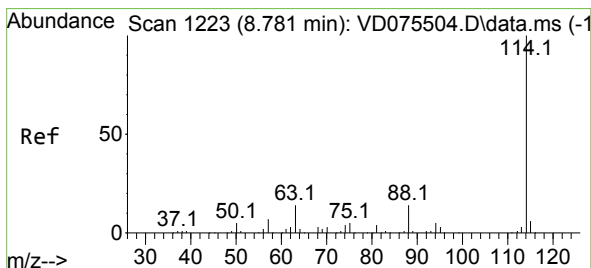
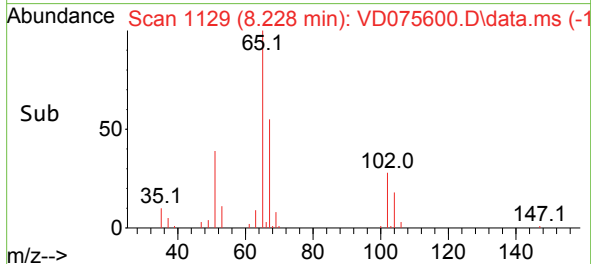
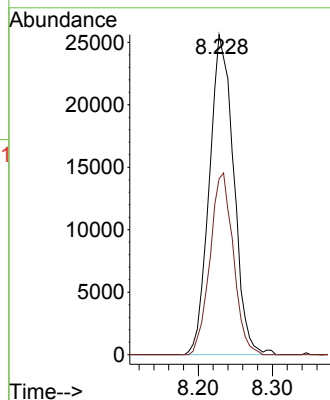
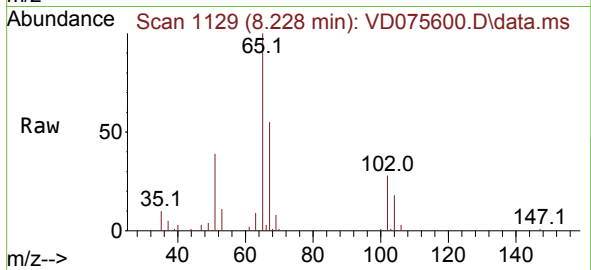




#33  
1,2-Dichloroethane-d4  
Concen: 63.257 ug/l  
RT: 8.228 min Scan# 1129  
Delta R.T. 0.000 min  
Lab File: VD075600.D  
Acq: 07 Apr 2023 14:49

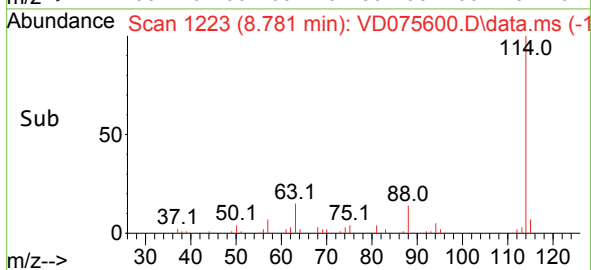
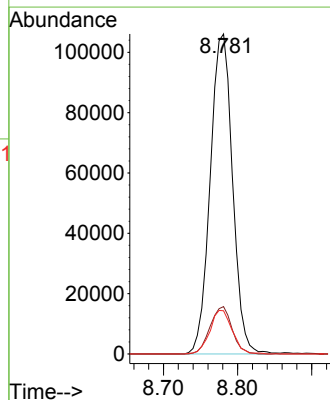
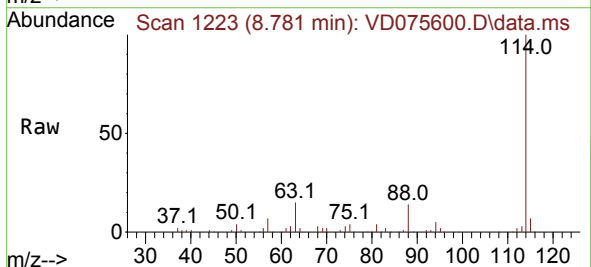
Instrument :  
MSVOA\_D  
ClientSampleId :  
72-11982

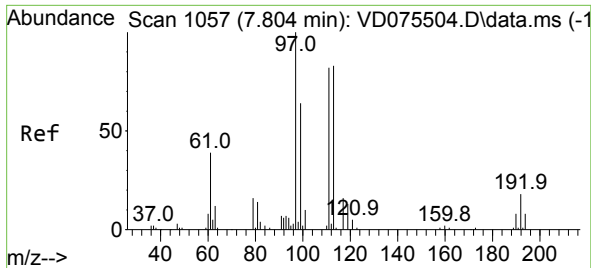
Tgt Ion: 65 Resp: 58473  
Ion Ratio Lower Upper  
65 100  
67 54.3 0.0 102.2



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.781 min Scan# 1223  
Delta R.T. -0.000 min  
Lab File: VD075600.D  
Acq: 07 Apr 2023 14:49

Tgt Ion:114 Resp: 222143  
Ion Ratio Lower Upper  
114 100  
63 14.8 0.0 41.6  
88 13.5 0.0 30.6

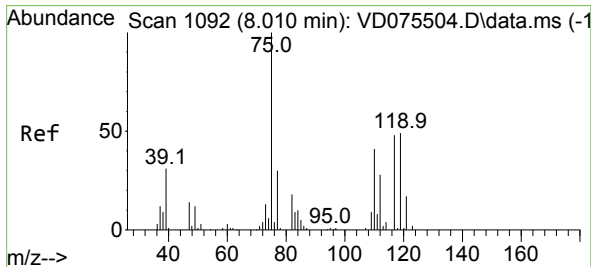
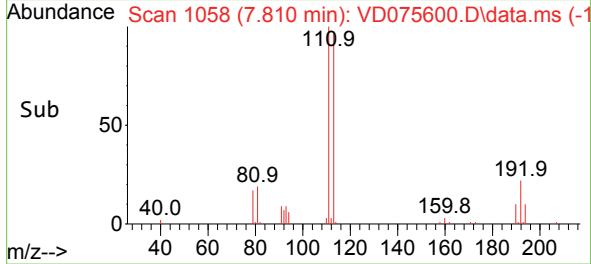
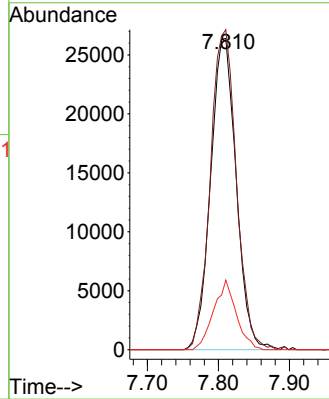
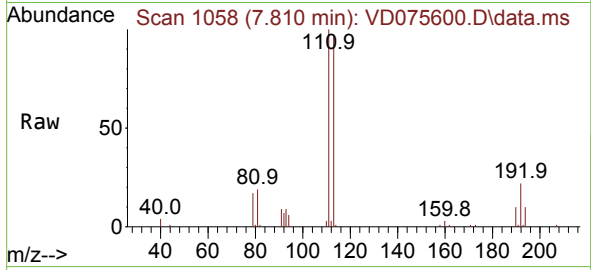




#35  
 Dibromofluoromethane  
 Concen: 43.428 ug/l  
 RT: 7.810 min Scan# 1058  
 Delta R.T. 0.006 min  
 Lab File: VD075600.D  
 Acq: 07 Apr 2023 14:49

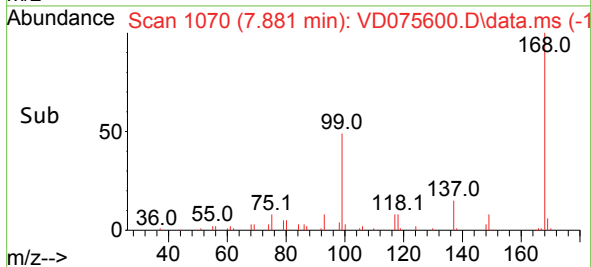
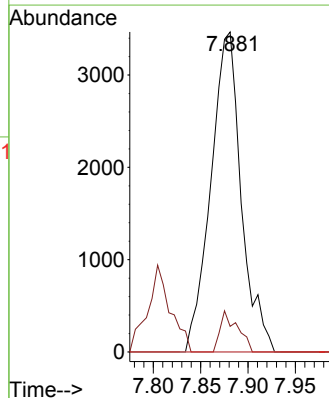
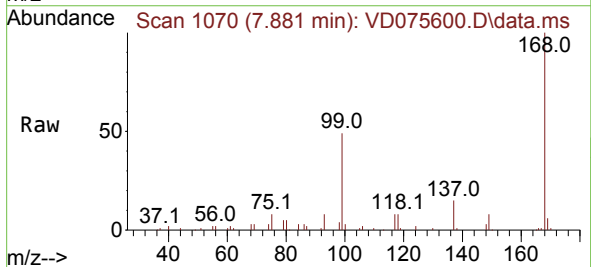
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 72-11982

Tgt Ion:113 Resp: 66074  
 Ion Ratio Lower Upper  
 113 100  
 111 104.2 81.4 122.0  
 192 19.7 15.2 22.8

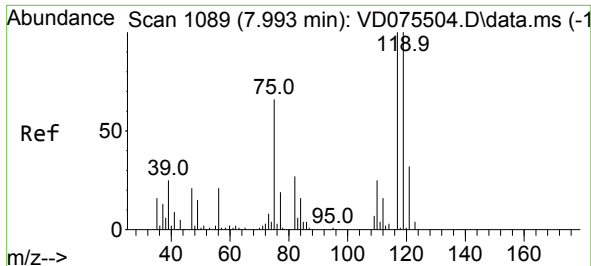


#36  
 1,1-Dichloropropene  
 Concen: 3.438 ug/l  
 RT: 7.881 min Scan# 1070  
 Delta R.T. -0.124 min  
 Lab File: VD075600.D  
 Acq: 07 Apr 2023 14:49

Tgt Ion: 75 Resp: 7752  
 Ion Ratio Lower Upper  
 75 100  
 110 7.3 17.1 51.2#  
 77 0.0 24.6 36.8#

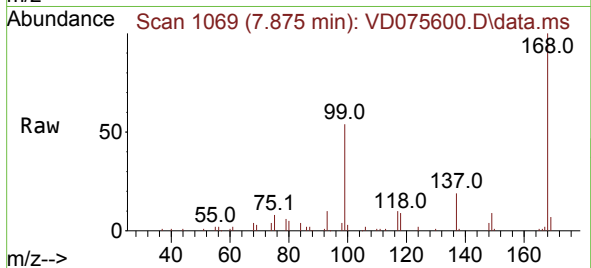




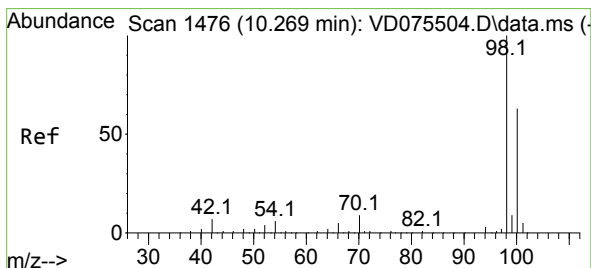
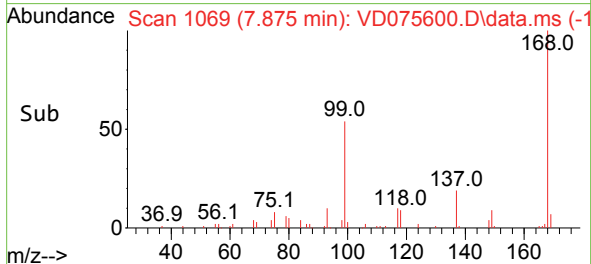
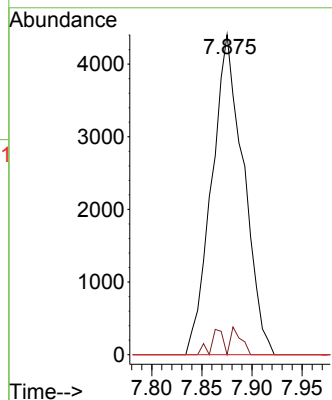


#38  
Carbon Tetrachloride  
Concen: 4.499 ug/l  
RT: 7.875 min Scan# 1069  
Delta R.T. -0.118 min  
Lab File: VD075600.D  
Acq: 07 Apr 2023 14:49

Instrument :  
MSVOA\_D  
ClientSampleId :  
72-11982

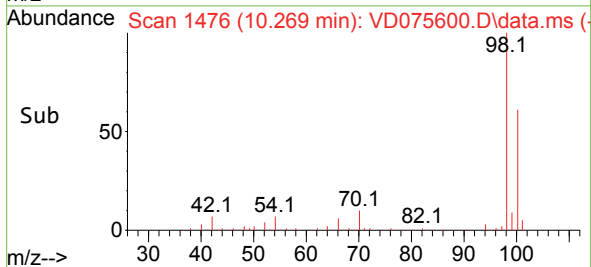
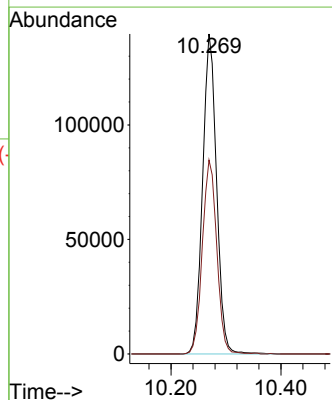
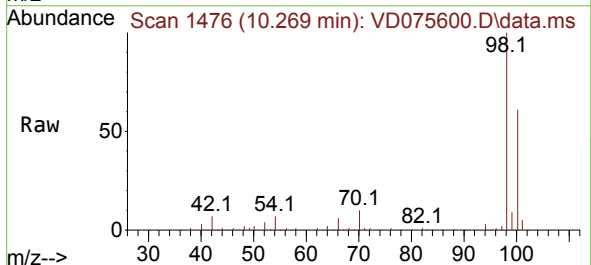


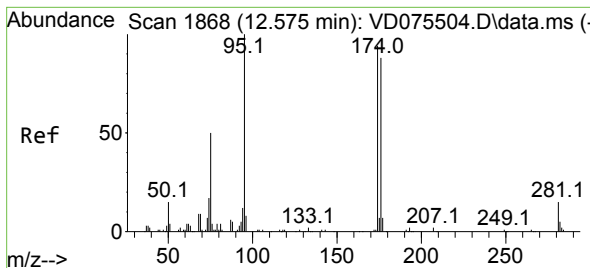
Tgt Ion:117 Resp: 9719  
Ion Ratio Lower Upper  
117 100  
119 0.0 74.7 112.1#  
121 0.0 25.9 38.9#



#50  
Toluene-d8  
Concen: 40.881 ug/l  
RT: 10.269 min Scan# 1476  
Delta R.T. -0.000 min  
Lab File: VD075600.D  
Acq: 07 Apr 2023 14:49

Tgt Ion: 98 Resp: 245710  
Ion Ratio Lower Upper  
98 100  
100 62.7 52.1 78.1

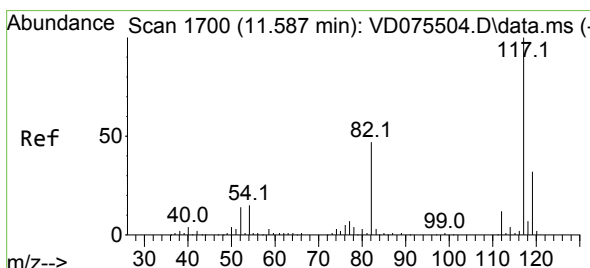
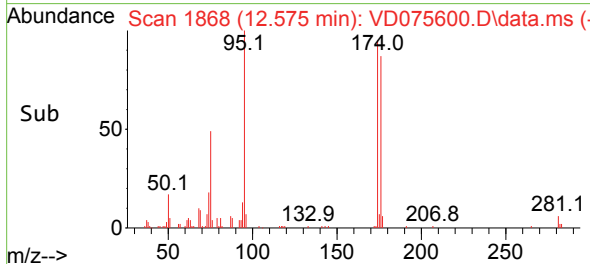
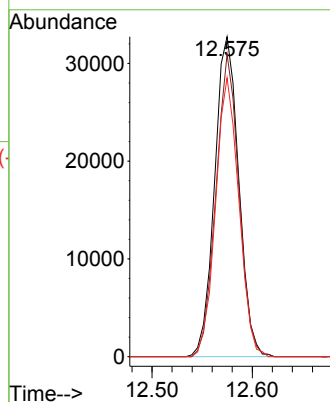
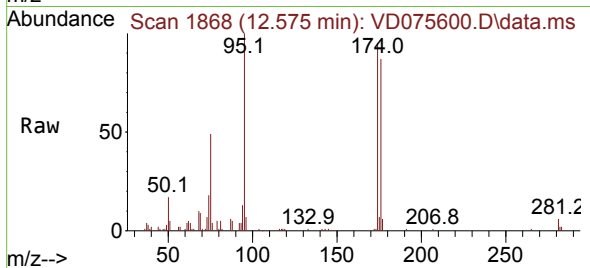




#62  
4-Bromofluorobenzene  
Concen: 31.486 ug/l  
RT: 12.575 min Scan# 1699  
Delta R.T. -0.000 min  
Lab File: VD075600.D  
Acq: 07 Apr 2023 14:49

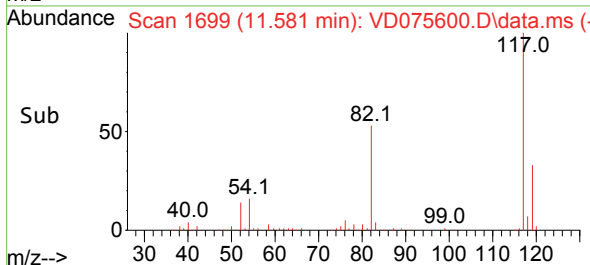
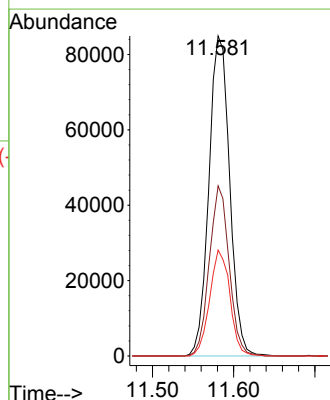
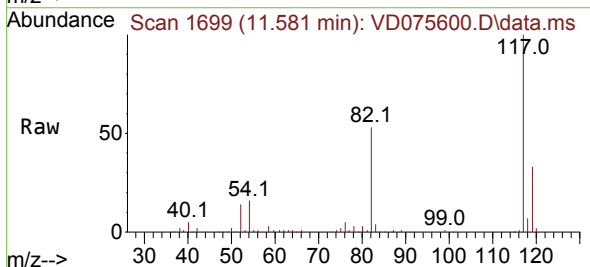
Instrument :  
MSVOA\_D  
ClientSampleId :  
72-11982

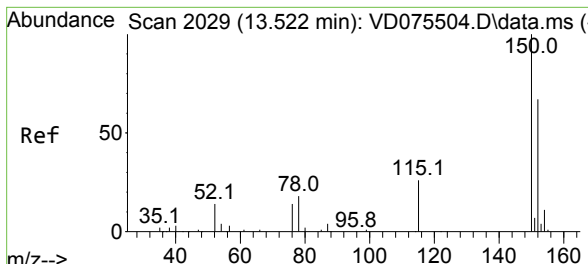
Tgt Ion: 95 Resp: 54708  
Ion Ratio Lower Upper  
95 100  
174 90.1 0.0 164.0  
176 83.8 0.0 156.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.581 min Scan# 1699  
Delta R.T. -0.006 min  
Lab File: VD075600.D  
Acq: 07 Apr 2023 14:49

Tgt Ion: 117 Resp: 150843  
Ion Ratio Lower Upper  
117 100  
82 53.1 44.0 66.0  
119 33.1 25.1 37.7

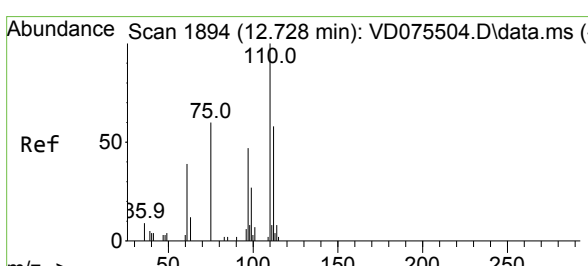
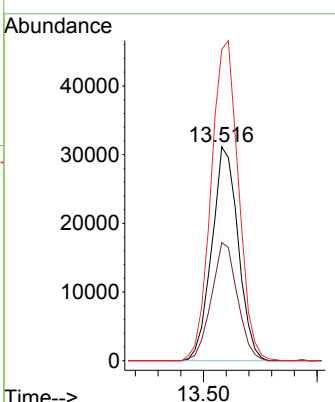
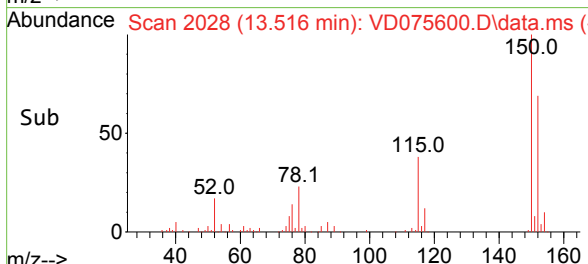
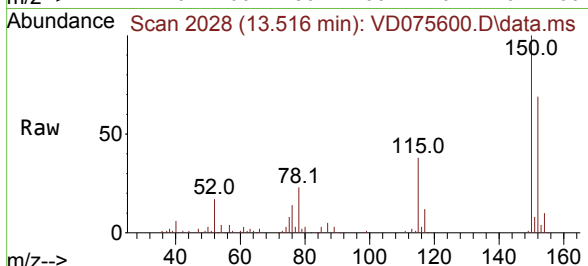




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.516 min Scan# 20  
 Delta R.T. -0.006 min  
 Lab File: VD075600.D  
 Acq: 07 Apr 2023 14:49

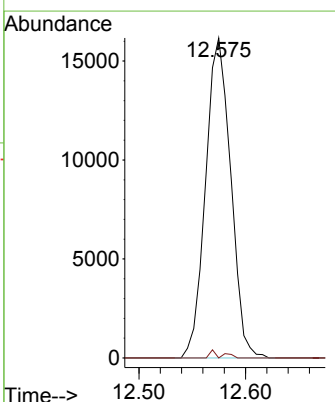
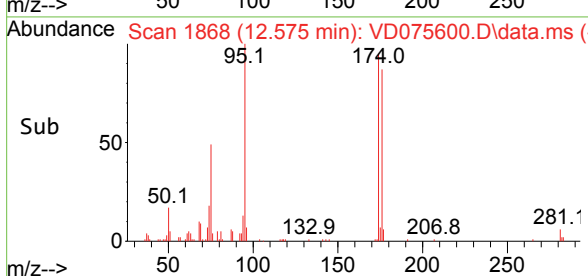
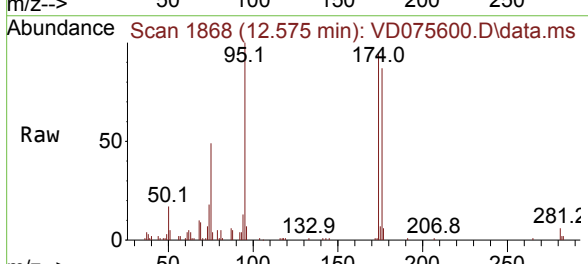
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 72-11982

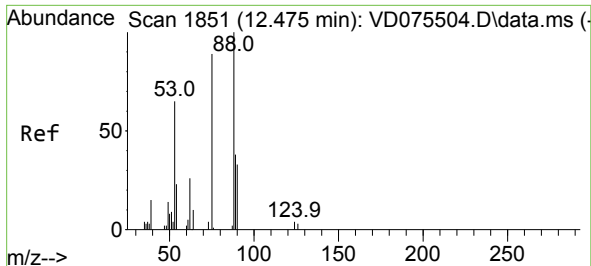
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 152   | Resp: | 50113 |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 115      | 54.6  | 30.1  | 90.3  |
| 150      | 155.2 | 0.0   | 364.8 |



#76  
 1,2,3-Trichloropropane  
 Concen: 64.548 ug/l  
 RT: 12.575 min Scan# 1868  
 Delta R.T. -0.153 min  
 Lab File: VD075600.D  
 Acq: 07 Apr 2023 14:49

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 26529 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 77       | 1.1   | 0.0   | 0.0#  |

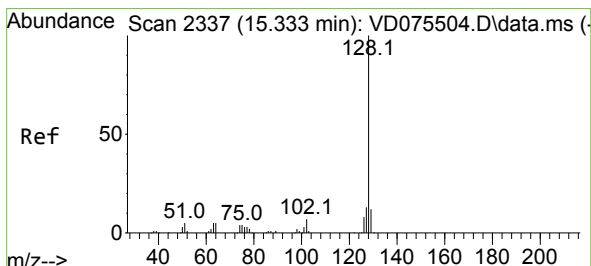
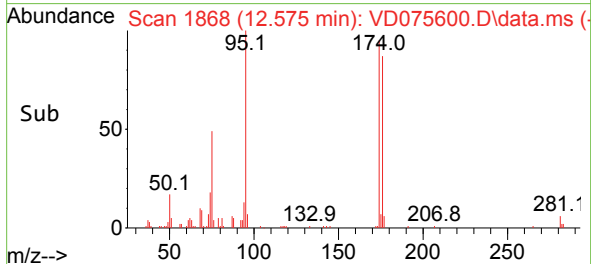
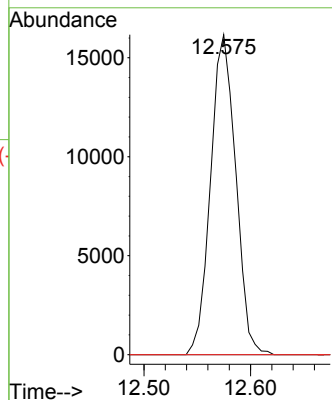
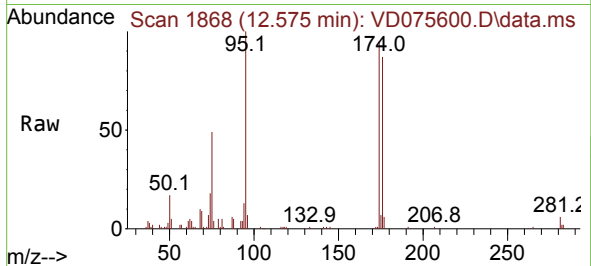




#81  
trans-1,4-Dichloro-2-butene  
Concen: 135.770 ug/l  
RT: 12.575 min Scan# 1868  
Delta R.T. 0.106 min  
Lab File: VD075600.D  
Acq: 07 Apr 2023 14:49

Instrument :  
MSVOA\_D  
ClientSampleId :  
72-11982

Tgt Ion: 75 Resp: 26529  
Ion Ratio Lower Upper  
75 100  
53 0.0 90.5 135.7#  
89 0.0 40.2 60.4#



#95  
Naphthalene  
Concen: 1.676 ug/l  
RT: 15.334 min Scan# 2337  
Delta R.T. -0.006 min  
Lab File: VD075600.D  
Acq: 07 Apr 2023 14:49

Tgt Ion:128 Resp: 2994  
Ion Ratio Lower Upper  
128 100  
127 11.8 10.4 15.6  
129 16.8 8.8 13.2#

