

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD110922\  
 Data File : VD074853.D  
 Acq On : 10 Nov 2022 04:31  
 Operator : VA/SY  
 Sample : N5491-04  
 Misc : 3.84G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 43 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 TP-2

Quant Time: Nov 10 05:51:37 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D110222S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 03 02:30:45 2022  
 Response via : Initial Calibration

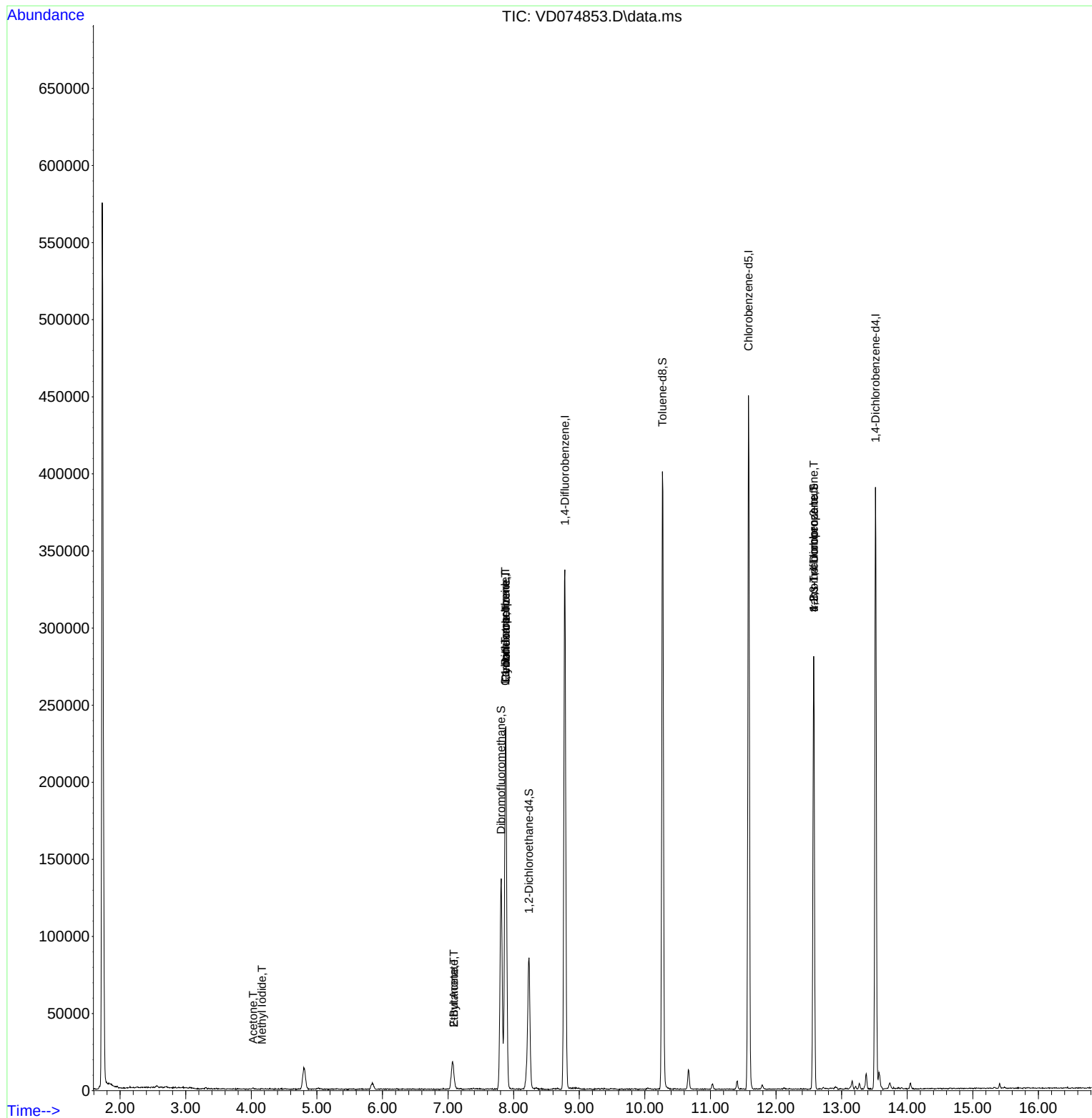
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 7.881  | 168   | 193662   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.781  | 114   | 328760   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.581 | 117   | 276934   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.516 | 152   | 109583   | 50.000    | ug/l   | 0.00     |
|                               |        |       |          |           |        |          |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.234  | 65    | 64689    | 42.175    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | =      | 84.340%  |
| 35) Dibromofluoromethane      | 7.810  | 113   | 99066    | 50.940    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | =      | 101.880% |
| 50) Toluene-d8                | 10.269 | 98    | 294351   | 41.494    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery  | =      | 82.980%  |
| 62) 4-Bromofluorobenzene      | 12.575 | 95    | 87177    | 42.562    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery  | =      | 85.120%  |
|                               |        |       |          |           |        |          |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 10) Methyl Iodide             | 4.163  | 142   | 122      | 5.597     | ug/l # | 43       |
| 11) Tert butyl alcohol        | 5.046  | 59    | 65       | Below Cal | #      | 84       |
| 16) Acetone                   | 4.028  | 43    | 959      | 2.996     | ug/l   | 90       |
| 20) Methylene Chloride        | 4.804  | 84    | 12158    | Below Cal |        | 96       |
| 25) 2-Butanone                | 7.087  | 43    | 1261     | 2.865     | ug/l # | 42       |
| 31) Cyclohexane               | 7.881  | 56    | 3470     | 1.117     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 7.875  | 75    | 13646    | 4.623     | ug/l # | 47       |
| 37) Ethyl Acetate             | 7.087  | 43    | 1261     | 1.281     | ug/l # | 66       |
| 38) Carbon Tetrachloride      | 7.875  | 117   | 18041    | 6.451     | ug/l # | 17       |
| 76) 1,2,3-Trichloropropane    | 12.575 | 75    | 42285    | 49.777    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.575 | 75    | 42285    | 118.158   | ug/l # | 17       |
| -----                         |        |       |          |           |        |          |

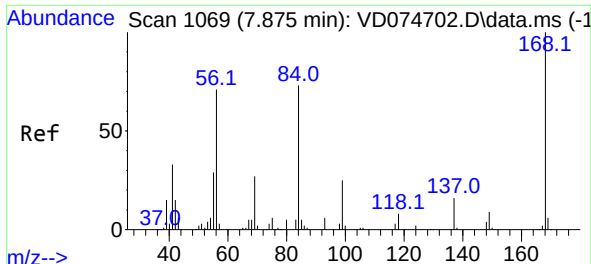
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : N5491-04  
Misc : 3.84G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 43 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-2

Quant Time: Nov 10 05:51:37 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D110222S.M  
Quant Title : SW846 8260  
QLast Update : Thu Nov 03 02:30:45 2022  
Response via : Initial Calibration

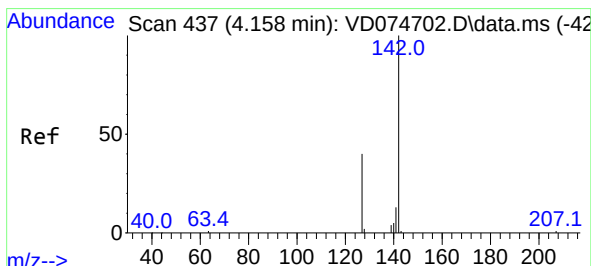
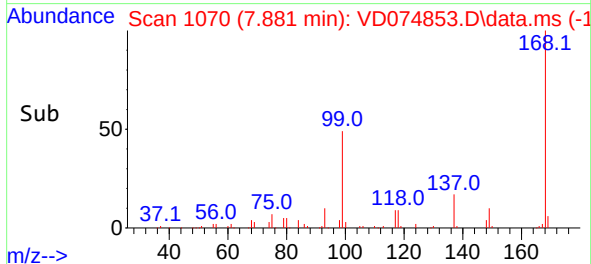
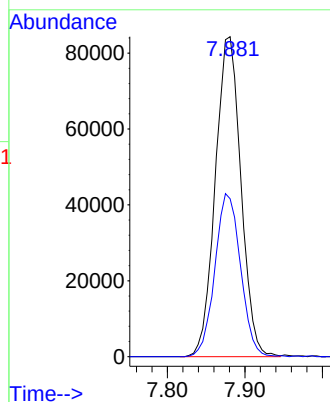
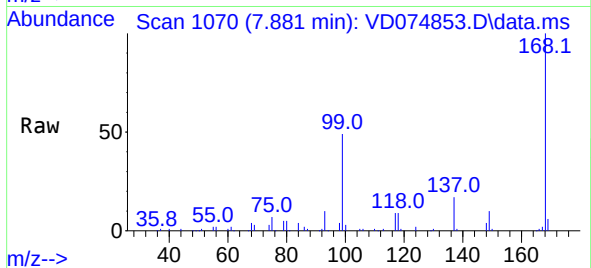




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.881 min Scan# 1069  
Delta R.T. 0.006 min  
Lab File: VD074853.D  
Acq: 10 Nov 2022 04:31

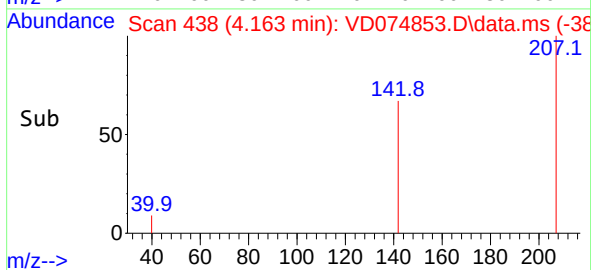
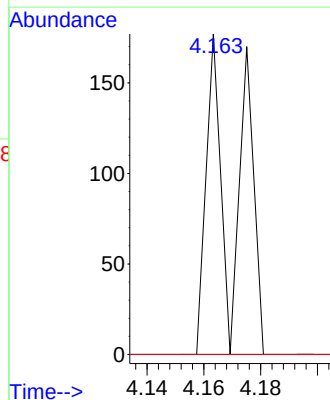
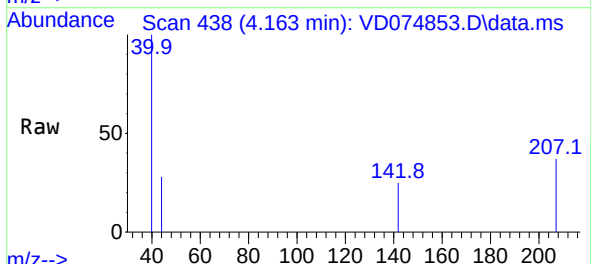
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-2

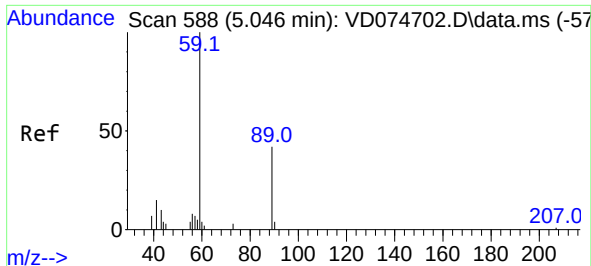
Tgt Ion:168 Resp: 193662  
Ion Ratio Lower Upper  
168 100  
99 49.3 40.9 61.3



#10  
Methyl Iodide  
Concen: 5.597 ug/l  
RT: 4.163 min Scan# 438  
Delta R.T. 0.005 min  
Lab File: VD074853.D  
Acq: 10 Nov 2022 04:31

Tgt Ion:142 Resp: 122  
Ion Ratio Lower Upper  
142 100  
127 0.0 31.9 47.9#  
141 0.0 11.4 17.2#

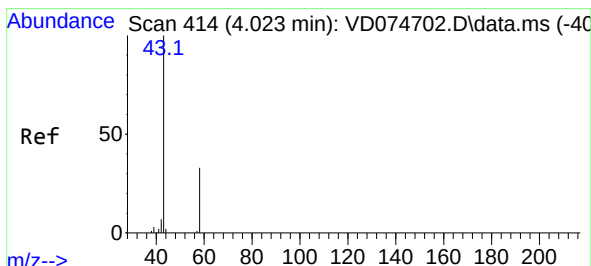
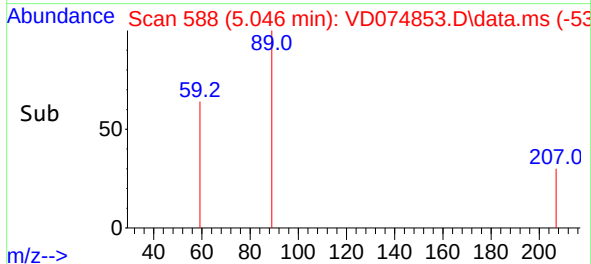
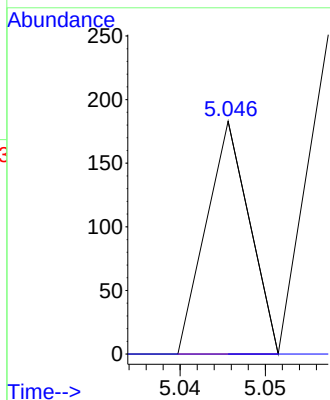
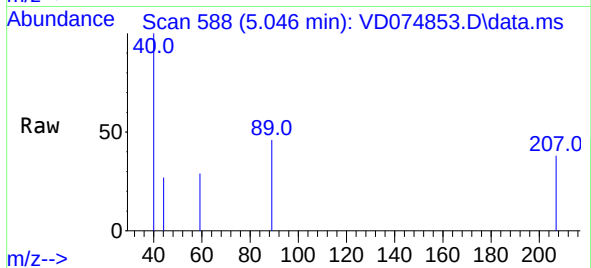




#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 5.046 min Scan# 51  
Delta R.T. -0.000 min  
Lab File: VD074853.D  
Acq: 10 Nov 2022 04:31

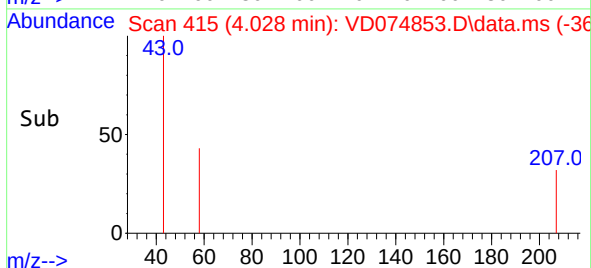
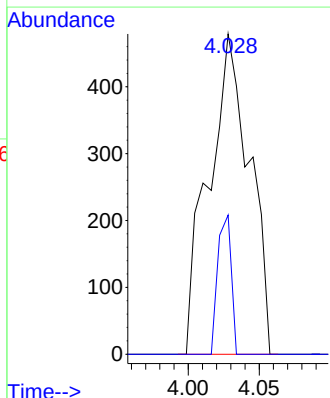
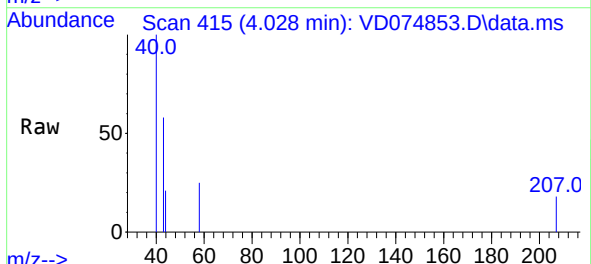
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-2

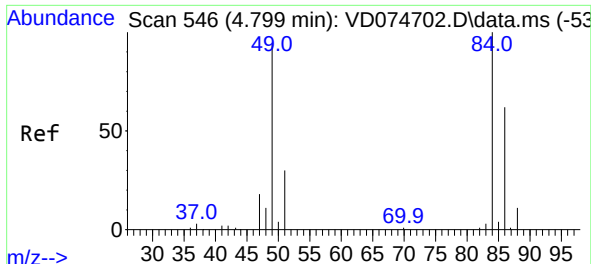
Tgt Ion: 59 Resp: 65  
Ion Ratio Lower Upper  
59 100  
57 0.0 4.4 6.6#



#16  
Acetone  
Concen: 2.996 ug/l  
RT: 4.028 min Scan# 415  
Delta R.T. 0.005 min  
Lab File: VD074853.D  
Acq: 10 Nov 2022 04:31

Tgt Ion: 43 Resp: 959  
Ion Ratio Lower Upper  
43 100  
58 43.4 30.2 45.2



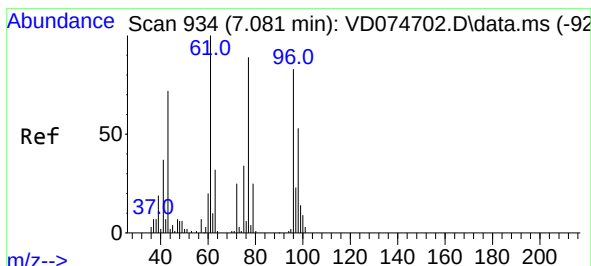
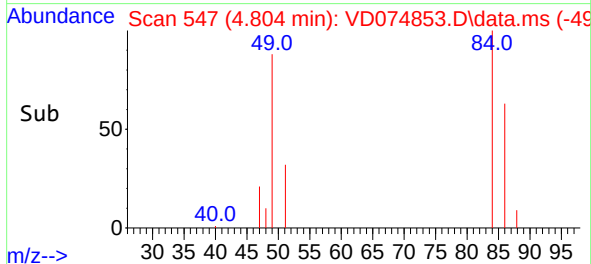
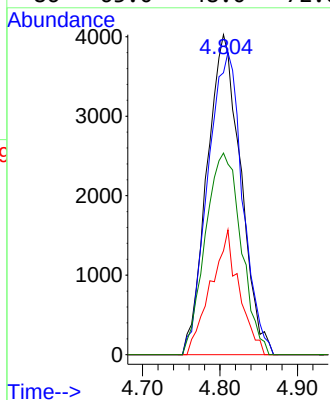
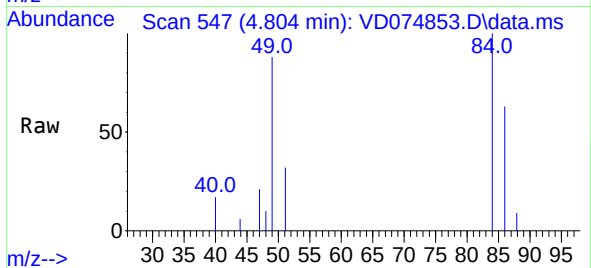


#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.804 min Scan# 546  
Delta R.T. 0.005 min  
Lab File: VD074853.D  
Acq: 10 Nov 2022 04:31

Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-2

Tgt Ion: 84 Resp: 12158

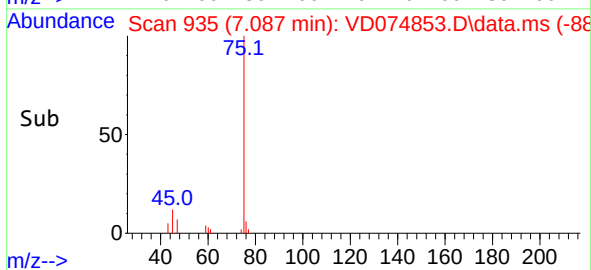
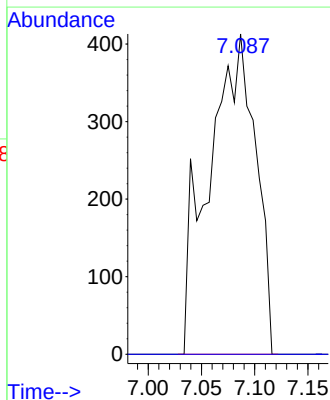
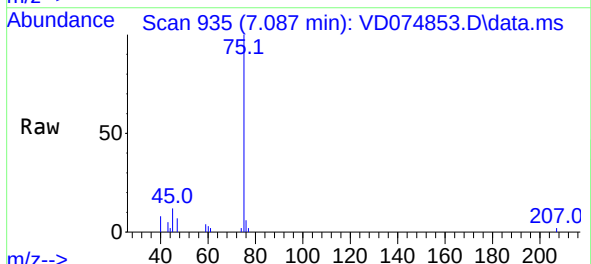
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 88.1  | 68.0  | 102.0 |
| 51  | 32.5  | 23.2  | 34.8  |
| 86  | 63.0  | 48.0  | 72.0  |

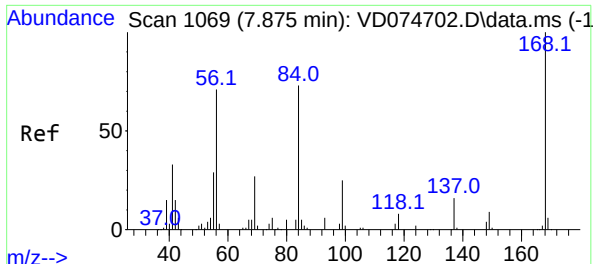


#25  
2-Butanone  
Concen: 2.865 ug/l  
RT: 7.087 min Scan# 935  
Delta R.T. 0.006 min  
Lab File: VD074853.D  
Acq: 10 Nov 2022 04:31

Tgt Ion: 43 Resp: 1261

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 0.0   | 25.8  | 38.8  |

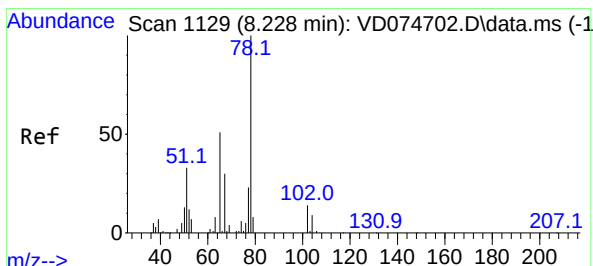
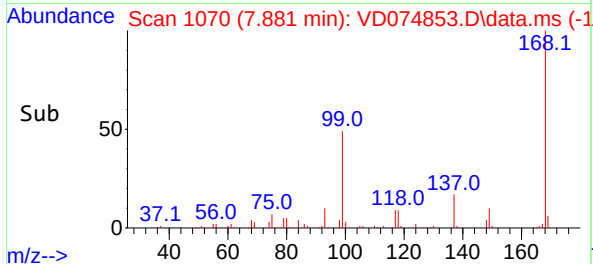
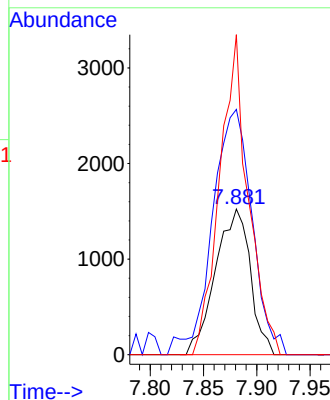
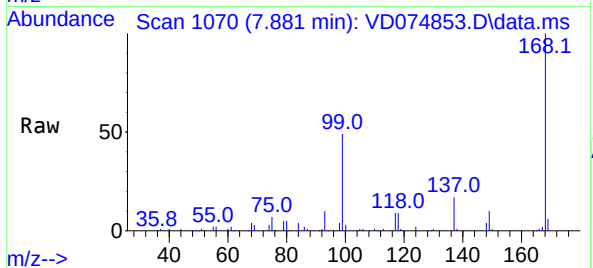




#31  
Cyclohexane  
Concen: 1.117 ug/l  
RT: 7.881 min Scan# 1107  
Delta R.T. 0.006 min  
Lab File: VD074853.D  
Acq: 10 Nov 2022 04:31

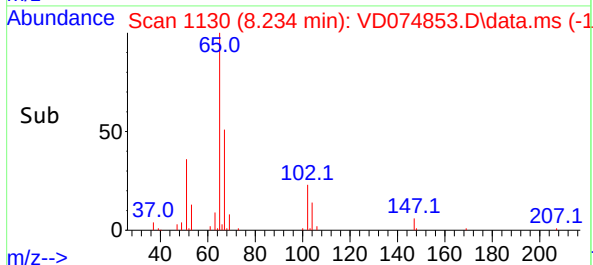
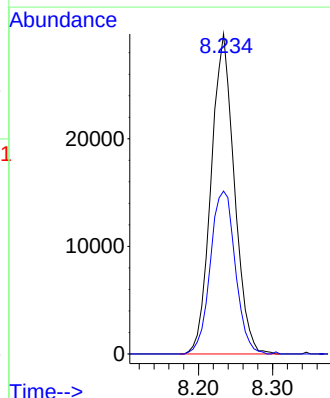
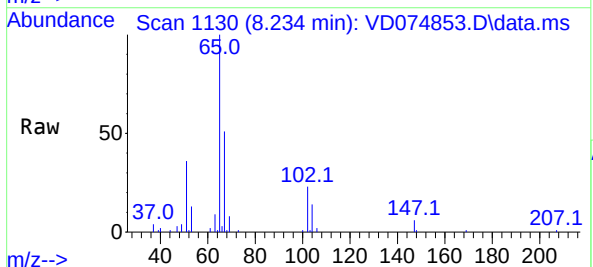
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-2

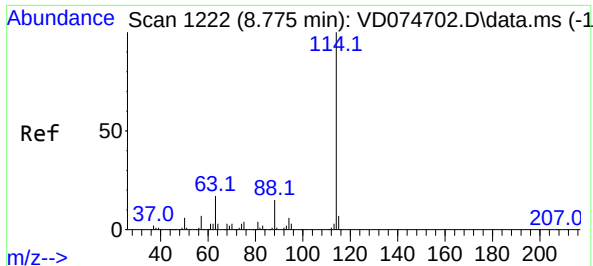
Tgt Ion: 56 Resp: 3470  
Ion Ratio Lower Upper  
56 100  
69 157.8 29.2 43.8#  
84 219.7 83.4 125.2#



#33  
1,2-Dichloroethane-d4  
Concen: 42.175 ug/l  
RT: 8.234 min Scan# 1130  
Delta R.T. 0.006 min  
Lab File: VD074853.D  
Acq: 10 Nov 2022 04:31

Tgt Ion: 65 Resp: 64689  
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# 11

Delta R.T. 0.006 min

Lab File: VD074853.D

Acq: 10 Nov 2022 04:31

Instrument :

MSVOA\_D

ClientSampleId :

TP-2

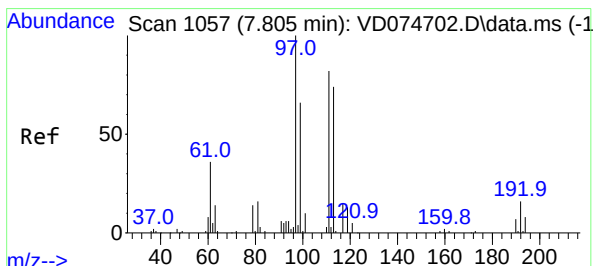
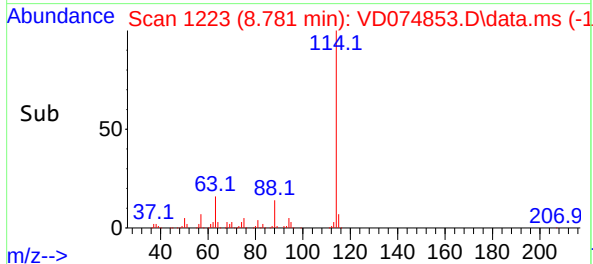
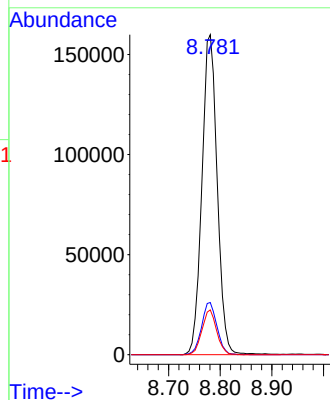
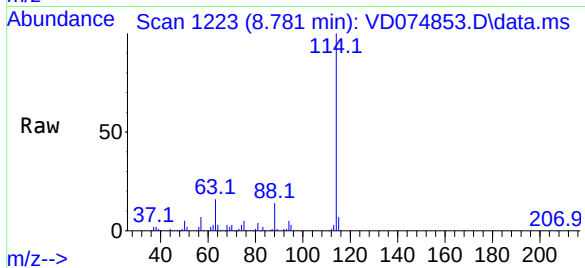
Tgt Ion:114 Resp: 328760

Ion Ratio Lower Upper

114 100

63 16.3 0.0 33.2

88 14.0 0.0 28.2



#35

Dibromofluoromethane

Concen: 50.940 ug/l

RT: 7.810 min Scan# 1058

Delta R.T. 0.005 min

Lab File: VD074853.D

Acq: 10 Nov 2022 04:31

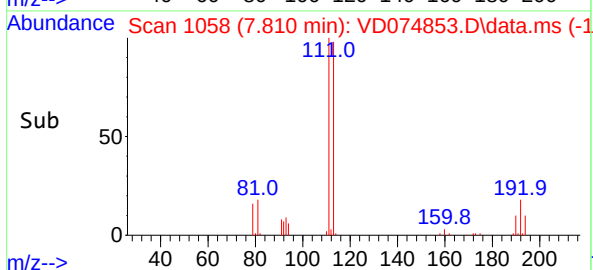
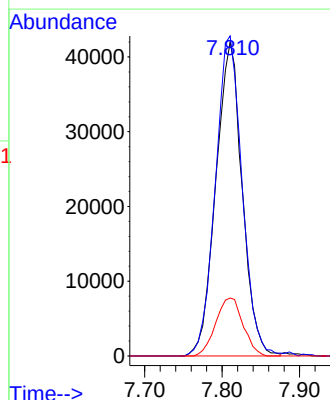
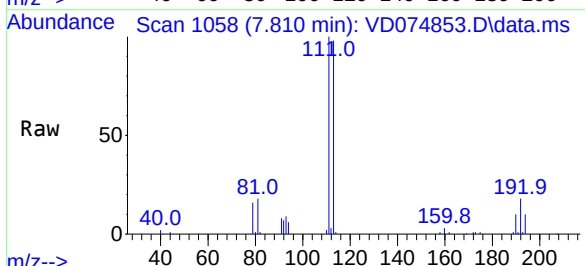
Tgt Ion:113 Resp: 99066

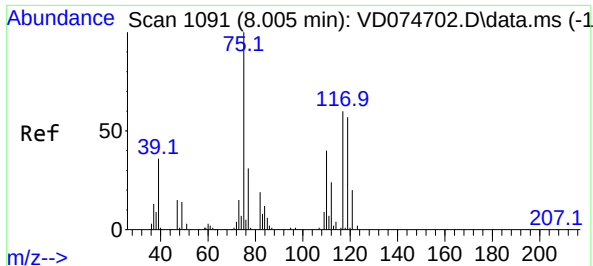
Ion Ratio Lower Upper

113 100

111 103.5 82.3 123.5

192 19.2 16.4 24.6





#36

1,1-Dichloropropene

Concen: 4.623 ug/l

RT: 7.875 min Scan# 1

Delta R.T. -0.130 min

Lab File: VD074853.D

Acq: 10 Nov 2022 04:31

Instrument :

MSVOA\_D

ClientSampleId :

TP-2

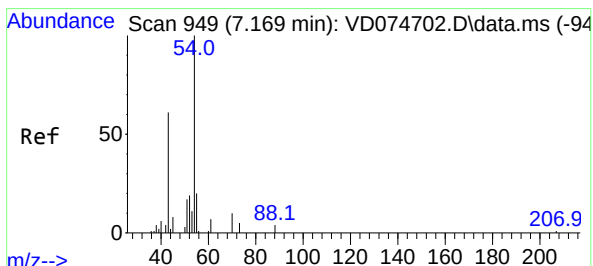
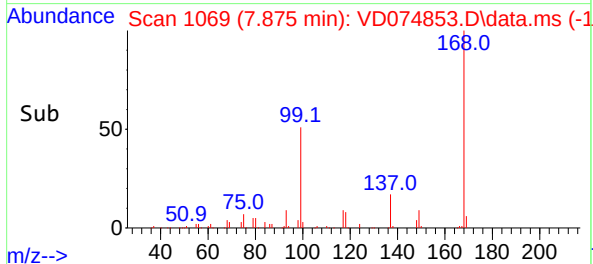
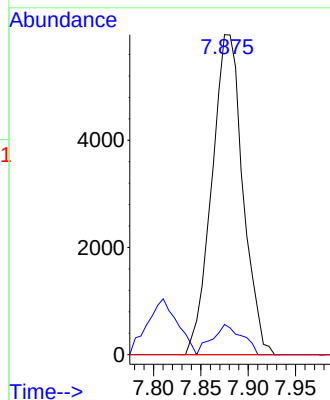
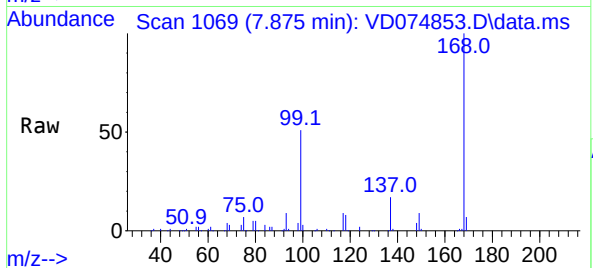
Tgt Ion: 75 Resp: 13646

Ion Ratio Lower Upper

75 100

110 9.1 19.7 59.0#

77 0.0 25.4 38.2#



#37

Ethyl Acetate

Concen: 1.281 ug/l

RT: 7.087 min Scan# 935

Delta R.T. -0.082 min

Lab File: VD074853.D

Acq: 10 Nov 2022 04:31

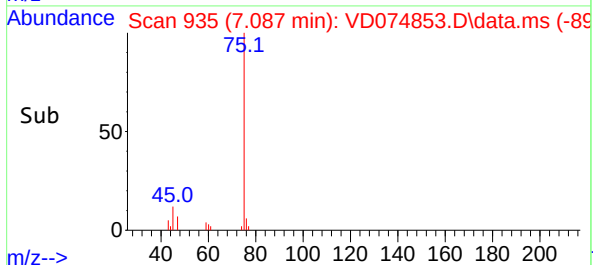
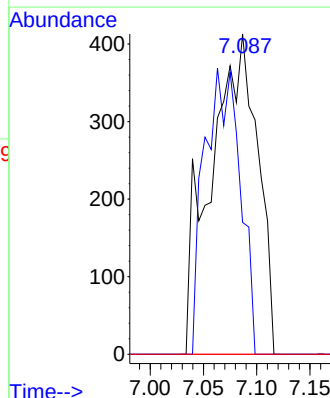
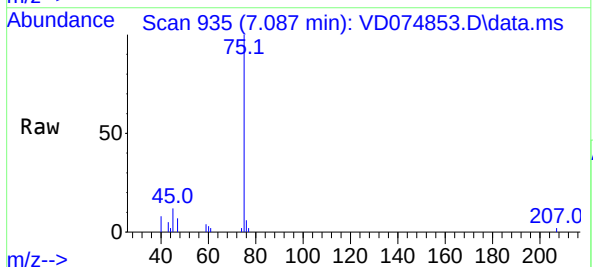
Tgt Ion: 43 Resp: 1261

Ion Ratio Lower Upper

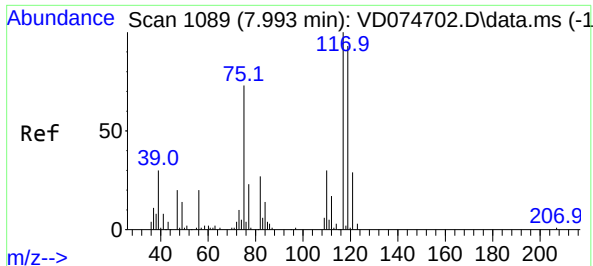
43 100

61 0.0 12.2 18.4#

70 0.0 9.6 14.4#



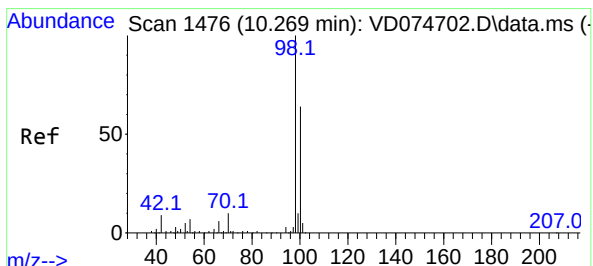
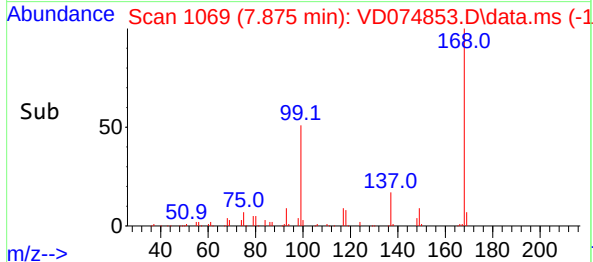
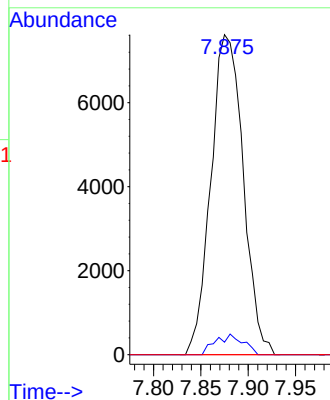
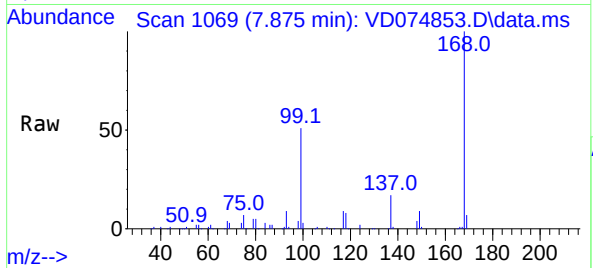




#38  
Carbon Tetrachloride  
Concen: 6.451 ug/l  
RT: 7.875 min Scan# 1069  
Delta R.T. -0.118 min  
Lab File: VD074853.D  
Acq: 10 Nov 2022 04:31

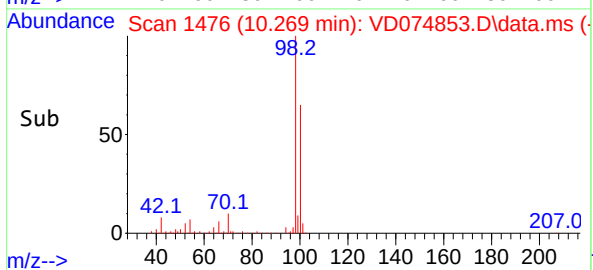
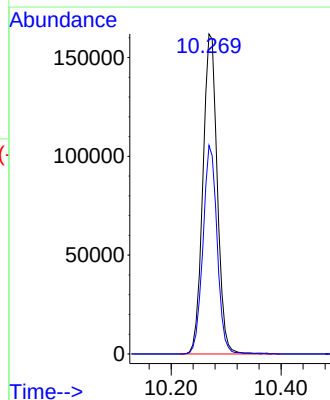
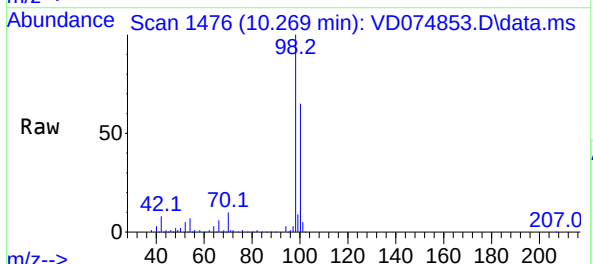
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-2

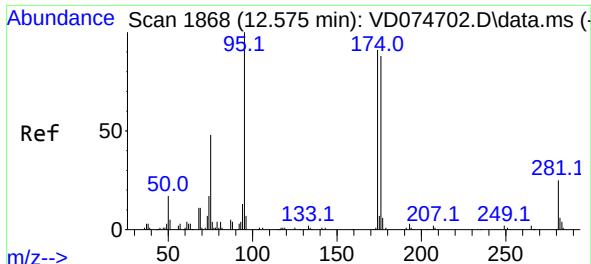
Tgt Ion:117 Resp: 18041  
Ion Ratio Lower Upper  
117 100  
119 3.9 73.1 109.7#  
121 0.0 25.0 37.6#



#50  
Toluene-d8  
Concen: 41.494 ug/l  
RT: 10.269 min Scan# 1476  
Delta R.T. -0.000 min  
Lab File: VD074853.D  
Acq: 10 Nov 2022 04:31

Tgt Ion: 98 Resp: 294351  
Ion Ratio Lower Upper  
98 100  
100 64.1 51.4 77.0

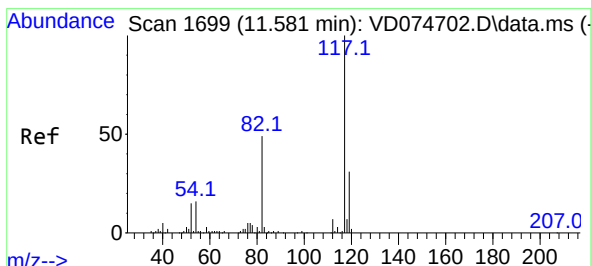
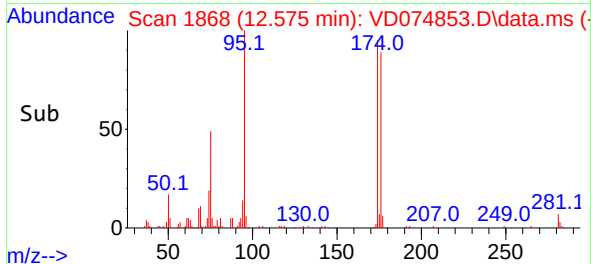
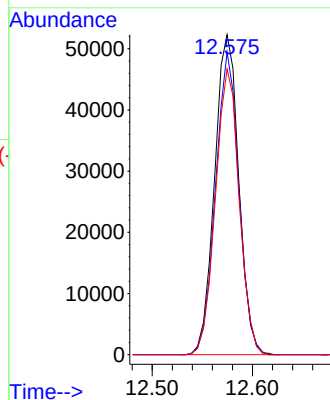
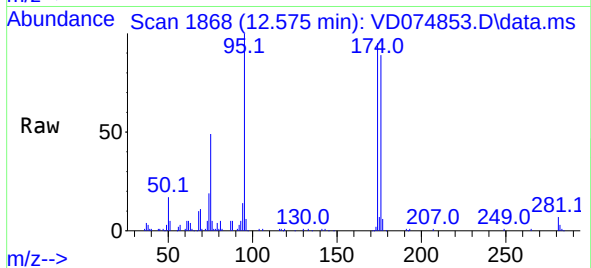




#62  
4-Bromofluorobenzene  
Concen: 42.562 ug/l  
RT: 12.575 min Scan# 1868  
Delta R.T. -0.000 min  
Lab File: VD074853.D  
Acq: 10 Nov 2022 04:31

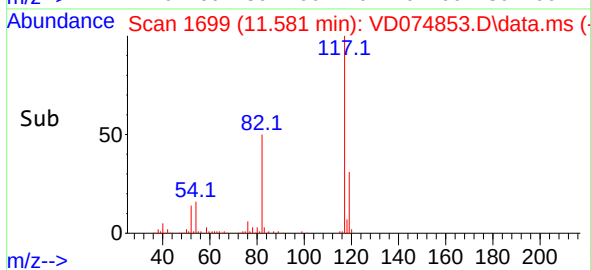
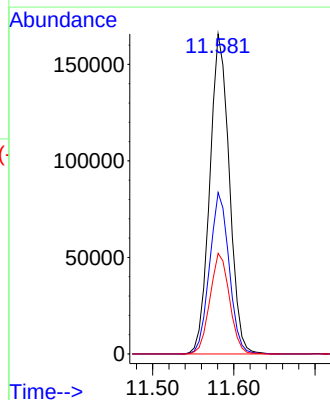
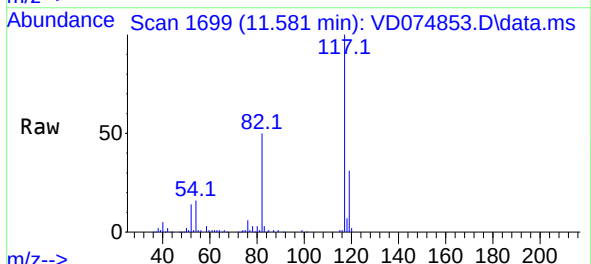
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-2

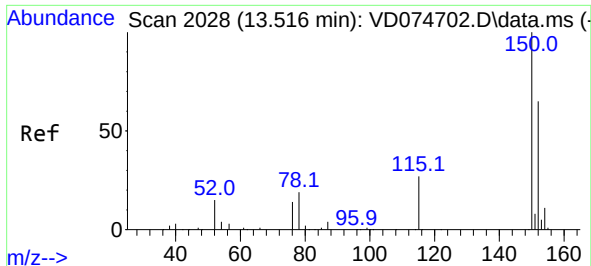
Tgt Ion: 95 Resp: 87177  
Ion Ratio Lower Upper  
95 100  
174 91.6 0.0 197.0  
176 87.8 0.0 182.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.581 min Scan# 1699  
Delta R.T. -0.000 min  
Lab File: VD074853.D  
Acq: 10 Nov 2022 04:31

Tgt Ion: 117 Resp: 276934  
Ion Ratio Lower Upper  
117 100  
82 50.5 41.6 62.4  
119 31.5 25.2 37.8

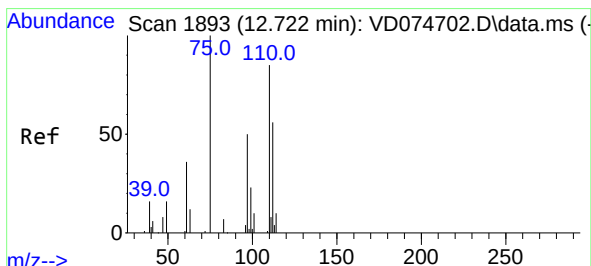
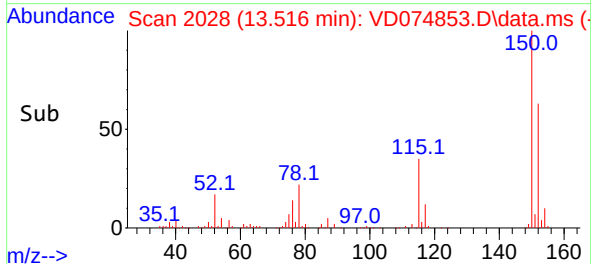
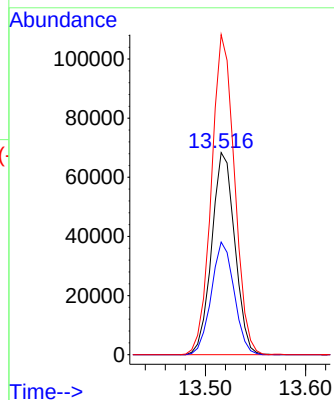
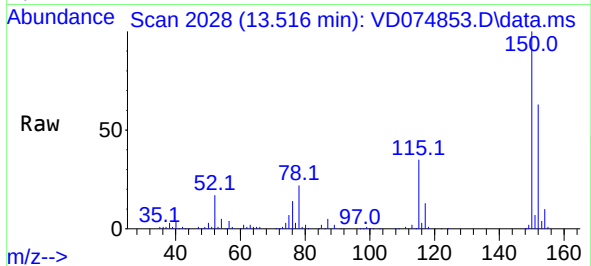




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.516 min Scan# 20  
Delta R.T. -0.000 min  
Lab File: VD074853.D  
Acq: 10 Nov 2022 04:31

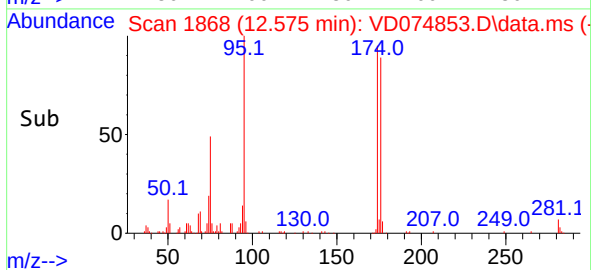
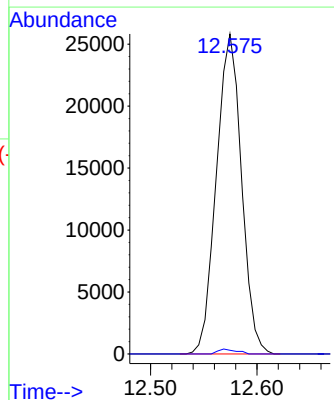
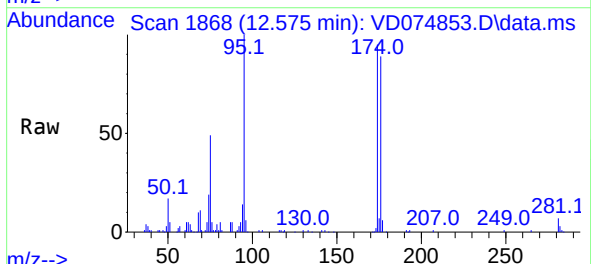
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-2

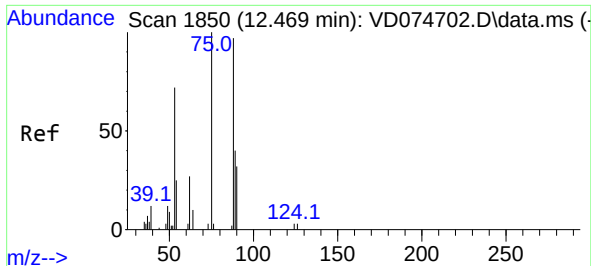
Tgt Ion:152 Resp: 109583  
Ion Ratio Lower Upper  
152 100  
115 55.1 26.8 80.4  
150 157.9 0.0 348.2



#76  
1,2,3-Trichloropropane  
Concen: 49.777 ug/l  
RT: 12.575 min Scan# 1868  
Delta R.T. -0.147 min  
Lab File: VD074853.D  
Acq: 10 Nov 2022 04:31

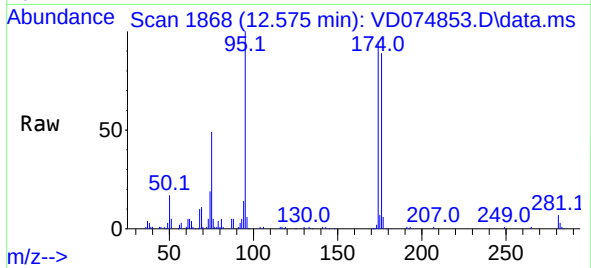
Tgt Ion: 75 Resp: 42285  
Ion Ratio Lower Upper  
75 100  
77 1.1 185.8 557.5#





#81  
trans-1,4-Dichloro-2-butene  
Concen: 118.158 ug/l  
RT: 12.575 min Scan# 1868  
Delta R.T. 0.106 min  
Lab File: VD074853.D  
Acq: 10 Nov 2022 04:31

Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-2



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 42285 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 53       | 0.0   | 63.8  | 95.6# |
| 89       | 0.0   | 38.2  | 57.4# |

