

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD061522\  
 Data File : VD073600.D  
 Acq On : 15 Jun 2022 19:30  
 Operator : VA/SY  
 Sample : N3336-01  
 Misc : 5.05G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Jun 16 06:04:17 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D060922S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jun 09 12:33:32 2022  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.973  | 168  | 394242   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.855  | 114  | 684831   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.632 | 117  | 637412   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.561 | 152  | 289426   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 33) 1,2-Dichloroethane-d4   | 8.326  | 65    | 206132   | 48.722   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 97.440% |
| 35) Dibromofluoromethane    | 7.908  | 113   | 212145   | 48.174   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 96.340% |
| 50) Toluene-d8              | 10.332 | 98    | 818064   | 49.133   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 49 - 140 | Recovery | =    | 98.260% |
| 62) 4-Bromofluorobenzene    | 12.620 | 95    | 287733   | 47.603   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 25 - 144 | Recovery | =    | 95.200% |

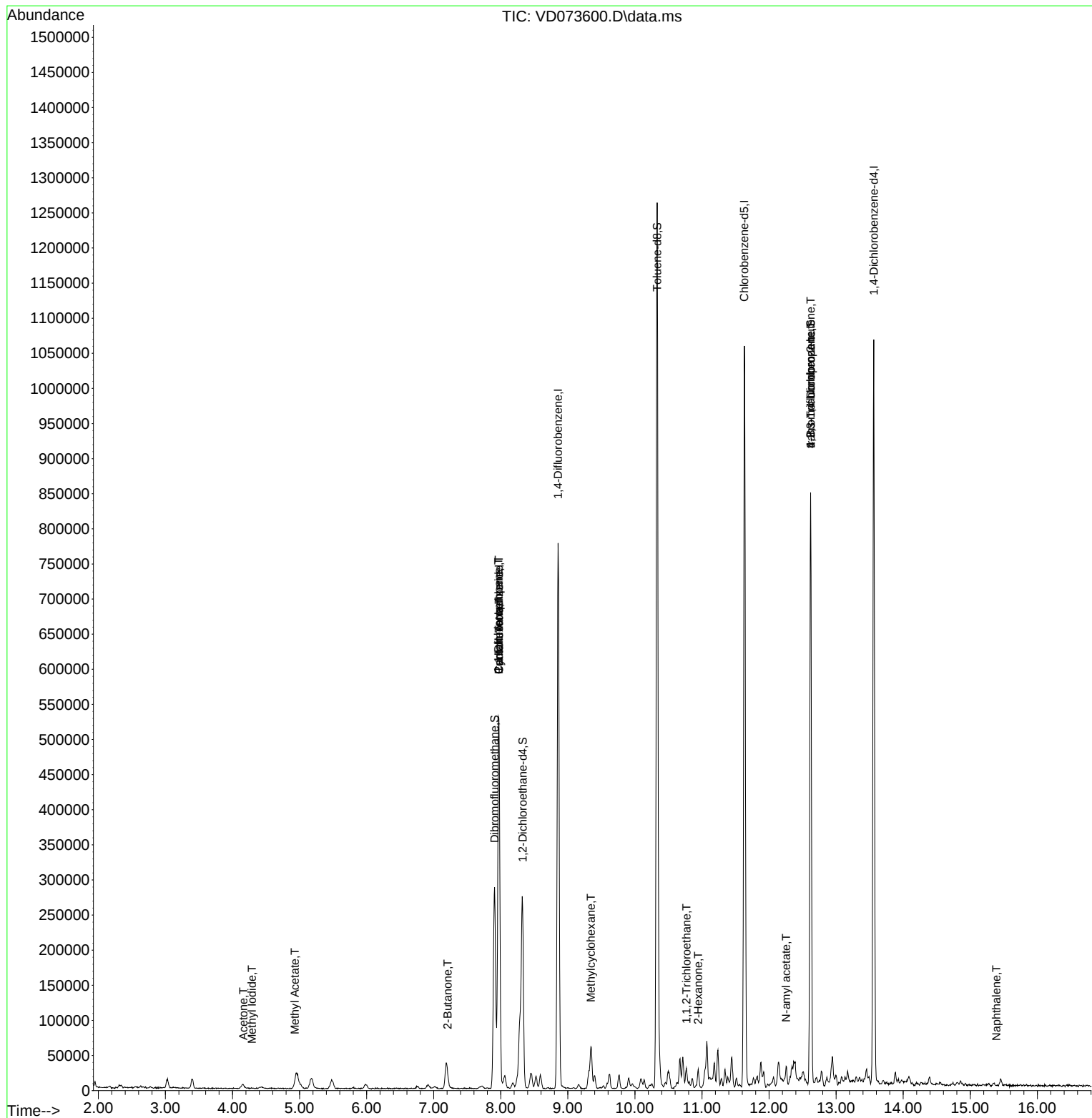
| Target Compounds              |        |     |        |           | Qvalue |       |
|-------------------------------|--------|-----|--------|-----------|--------|-------|
| 10) Methyl Iodide             | 4.291  | 142 | 221    | 4.215     | ug/l   | # 74  |
| 11) Tert butyl alcohol        | 5.173  | 59  | 13707  | Below Cal |        | # 74  |
| 16) Acetone                   | 4.162  | 43  | 9419   | 12.644    | ug/l   | 96    |
| 18) Methyl Acetate            | 4.932  | 43  | 4199   | 3.314     | ug/l   | # 55  |
| 20) Methylene Chloride        | 4.950  | 84  | 7834   | Below Cal |        | # 78  |
| 25) 2-Butanone                | 7.208  | 43  | 7329   | 6.686     | ug/l   | 96    |
| 31) Cyclohexane               | 7.973  | 56  | 12098  | 1.698     | ug/l   | # 1   |
| 36) 1,1-Dichloropropene       | 7.967  | 75  | 30316  | 4.584     | ug/l   | # 52  |
| 38) Carbon Tetrachloride      | 7.973  | 117 | 40482  | 5.851     | ug/l   | # 18  |
| 39) Methylcyclohexane         | 9.344  | 83  | 21591  | 2.801     | ug/l   | 95    |
| 55) 1,1,2-Trichloroethane     | 10.767 | 97  | 9006   | 2.352     | ug/l   | # 22  |
| 59) 2-Hexanone                | 10.944 | 43  | 9429   | 5.293     | ug/l   | # 29  |
| 74) N-amyl acetate            | 12.255 | 43  | 5788   | 1.297     | ug/l   | # 79  |
| 76) 1,2,3-Trichloropropane    | 12.620 | 75  | 137696 | 48.973    | ug/l   | # 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.620 | 75  | 137696 | 114.948   | ug/l   | # 7   |
| 95) Naphthalene               | 15.390 | 128 | 524    | 4.250     | ug/l   | # 70  |

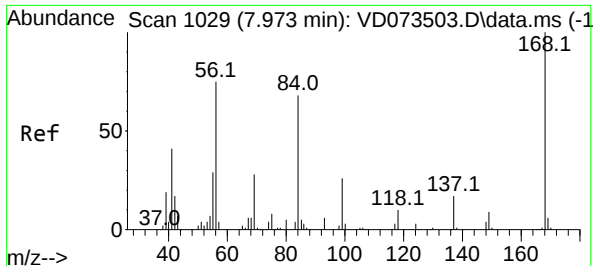
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD061522\  
Data File : VD073600.D  
Acq On : 15 Jun 2022 19:30  
Operator : VA/SY  
Sample : N3336-01  
Misc : 5.05G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

Quant Time: Jun 16 06:04:17 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D060922S.M  
Quant Title : SW846 8260  
QLast Update : Thu Jun 09 12:33:32 2022  
Response via : Initial Calibration

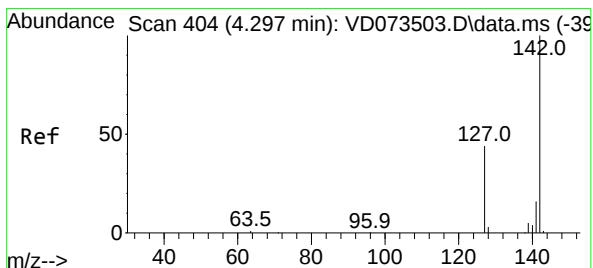
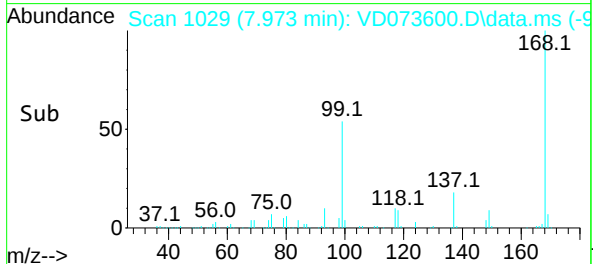
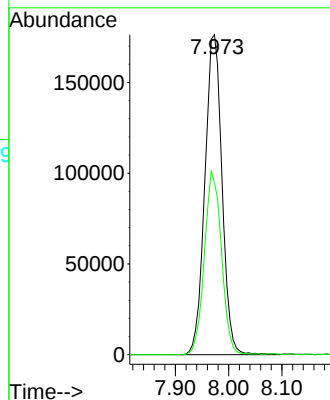
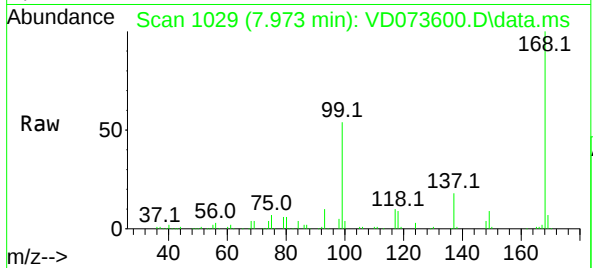




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. 0.000 min  
Lab File: VD073600.D  
Acq: 15 Jun 2022 19:30

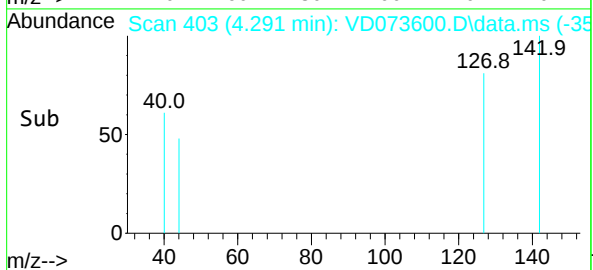
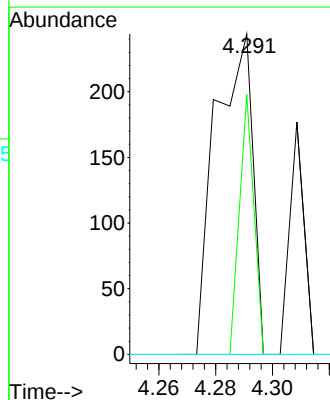
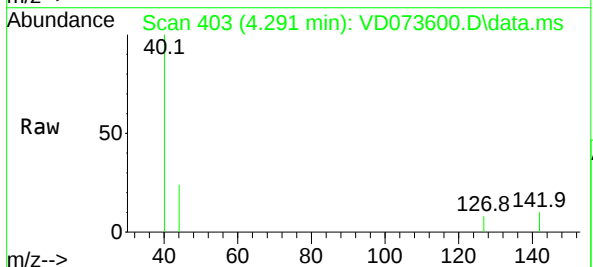
Instrument :  
MSVOA\_D  
ClientSampleId :

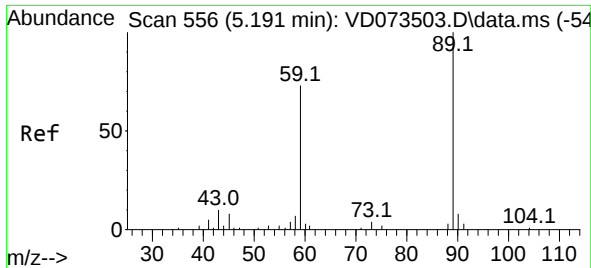
Tgt Ion:168 Resp: 394242  
Ion Ratio Lower Upper  
168 100  
99 53.8 49.8 74.6



#10  
Methyl Iodide  
Concen: 4.215 ug/l  
RT: 4.291 min Scan# 403  
Delta R.T. -0.006 min  
Lab File: VD073600.D  
Acq: 15 Jun 2022 19:30

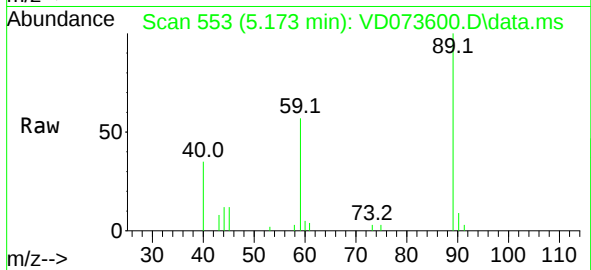
Tgt Ion:142 Resp: 221  
Ion Ratio Lower Upper  
142 100  
127 31.7 37.3 55.9#  
141 0.0 11.7 17.5#



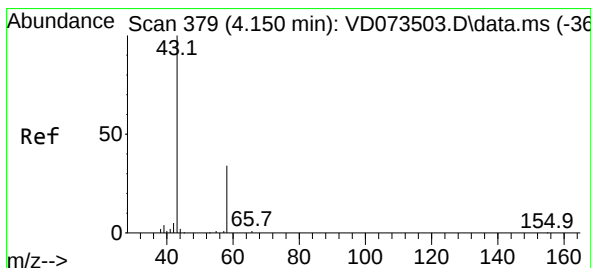
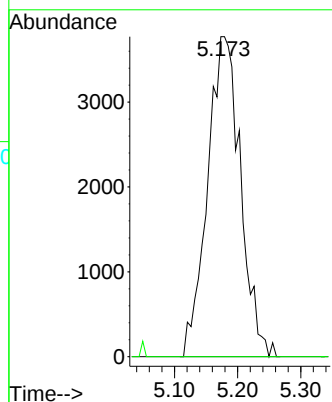


#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 5.173 min Scan# 511  
Delta R.T. -0.018 min  
Lab File: VD073600.D  
Acq: 15 Jun 2022 19:30

Instrument :  
MSVOA\_D  
ClientSampleId :

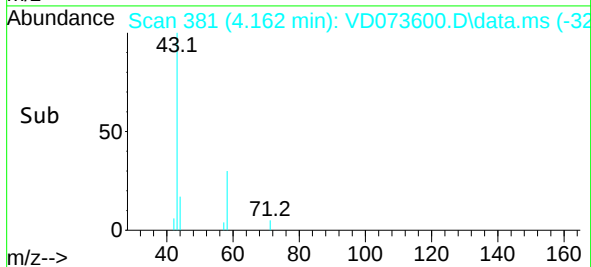
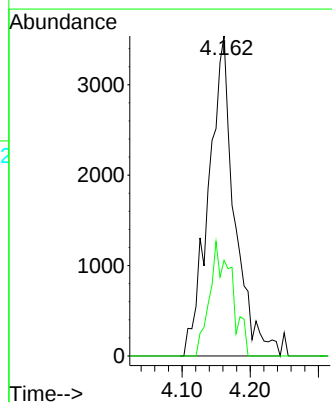
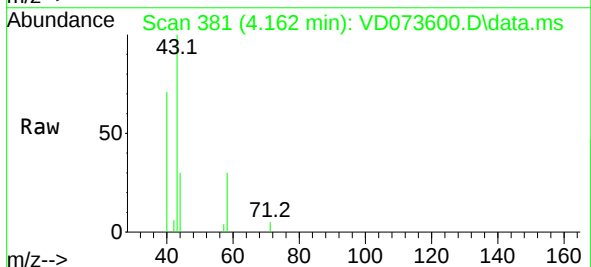


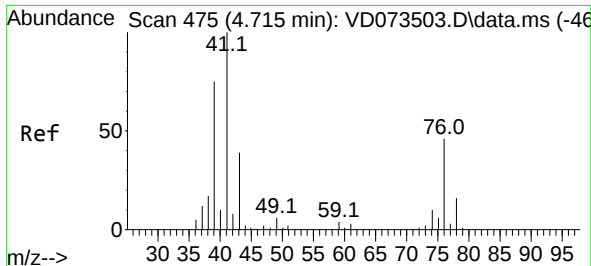
Tgt Ion: 59 Resp: 13707  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.8 11.6#



#16  
Acetone  
Concen: 12.644 ug/l  
RT: 4.162 min Scan# 381  
Delta R.T. 0.012 min  
Lab File: VD073600.D  
Acq: 15 Jun 2022 19:30

Tgt Ion: 43 Resp: 9419  
Ion Ratio Lower Upper  
43 100  
58 29.9 22.1 33.1

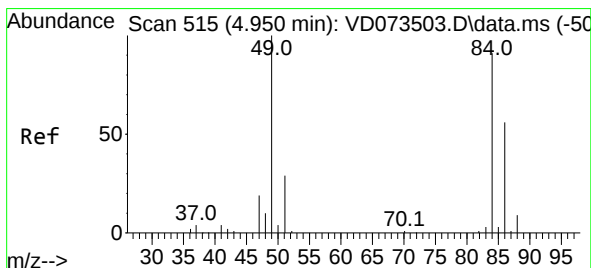
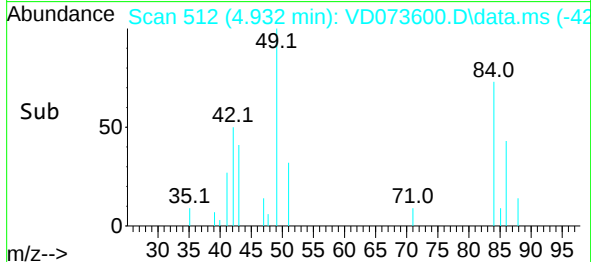
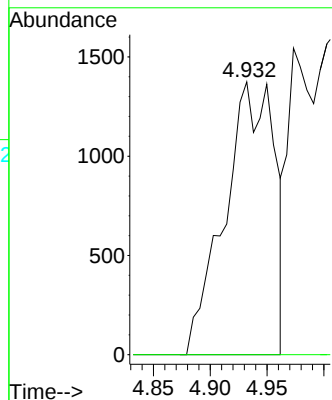
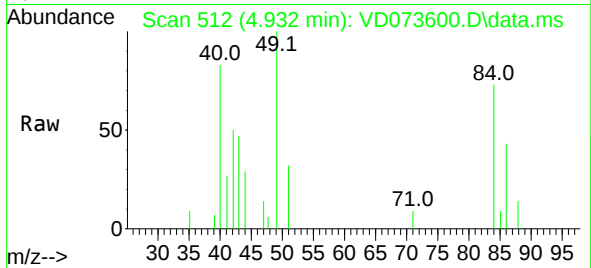




#18  
Methyl Acetate  
Concen: 3.314 ug/l  
RT: 4.932 min Scan# 512  
Delta R.T. 0.217 min  
Lab File: VD073600.D  
Acq: 15 Jun 2022 19:30

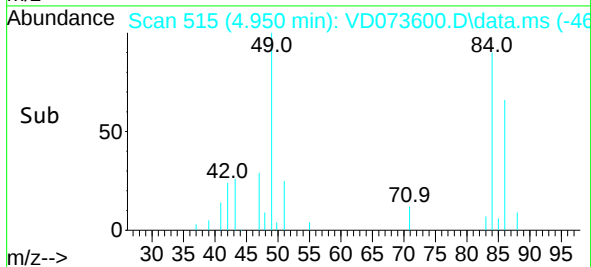
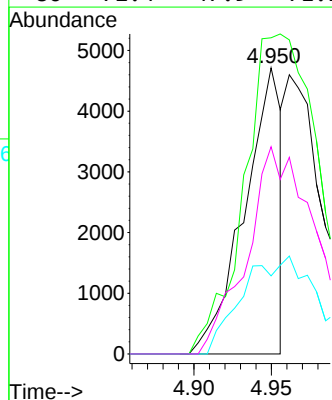
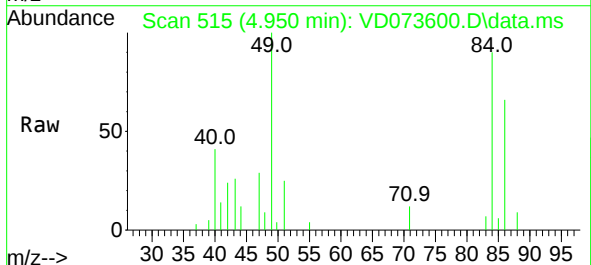
Instrument :  
MSVOA\_D  
ClientSampleId :

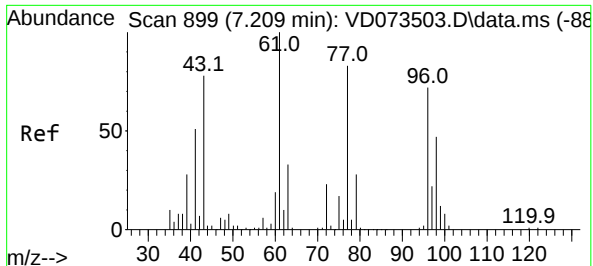
Tgt Ion: 43 Resp: 4199  
Ion Ratio Lower Upper  
43 100  
74 0.0 16.7 25.1#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.950 min Scan# 515  
Delta R.T. -0.000 min  
Lab File: VD073600.D  
Acq: 15 Jun 2022 19:30

Tgt Ion: 84 Resp: 7834  
Ion Ratio Lower Upper  
84 100  
49 110.5 112.8 169.2#  
51 27.3 32.6 48.8#  
86 72.4 47.9 71.9#

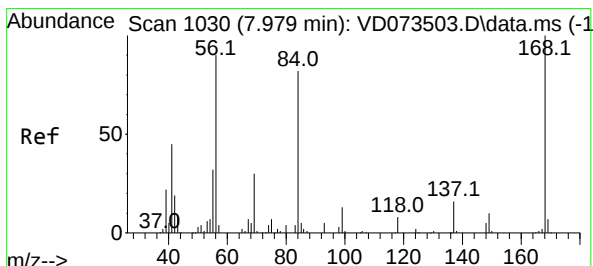
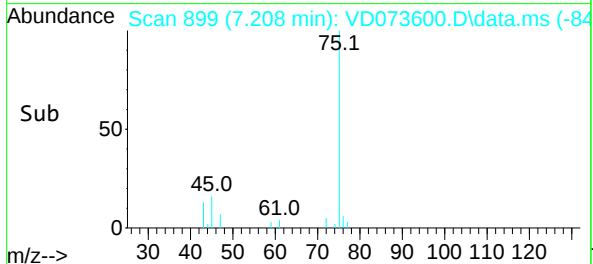
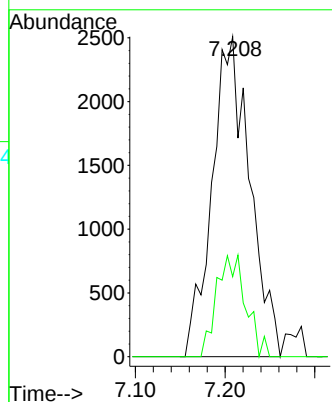
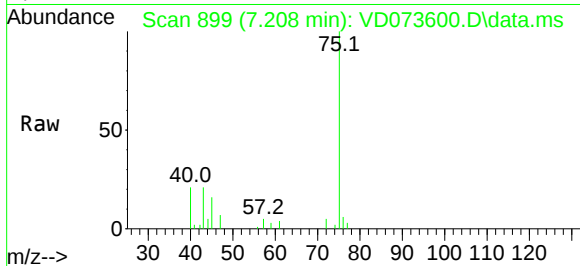




#25  
2-Butanone  
Concen: 6.686 ug/l  
RT: 7.208 min Scan# 899  
Delta R.T. -0.001 min  
Lab File: VD073600.D  
Acq: 15 Jun 2022 19:30

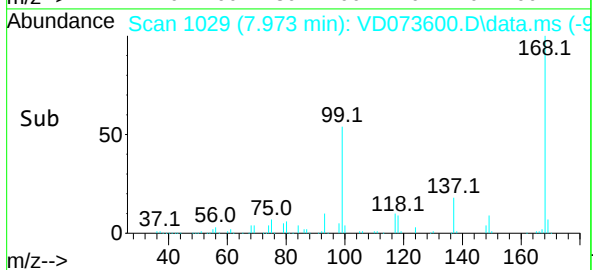
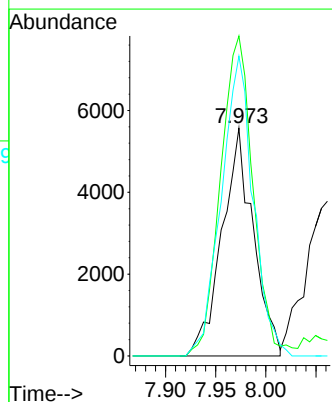
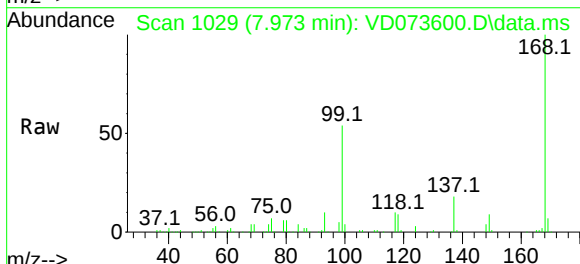
Instrument :  
MSVOA\_D  
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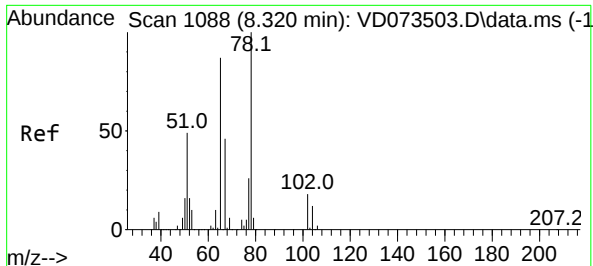
Tgt Ion: 43 Resp: 7329  
Ion Ratio Lower Upper  
43 100  
72 25.0 18.6 27.8



#31  
Cyclohexane  
Concen: 1.698 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. -0.006 min  
Lab File: VD073600.D  
Acq: 15 Jun 2022 19:30

Tgt Ion: 56 Resp: 12098  
Ion Ratio Lower Upper  
56 100  
69 140.5 25.4 38.2#  
84 131.6 63.0 94.4#





#33

1,2-Dichloroethane-d4

Concen: 48.722 ug/l

RT: 8.326 min Scan# 1108

Delta R.T. 0.006 min

Lab File: VD073600.D

Acq: 15 Jun 2022 19:30

Instrument :

MSVOA\_D

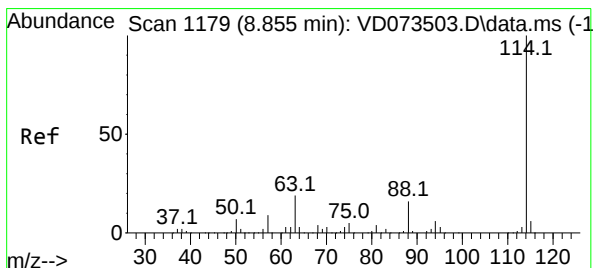
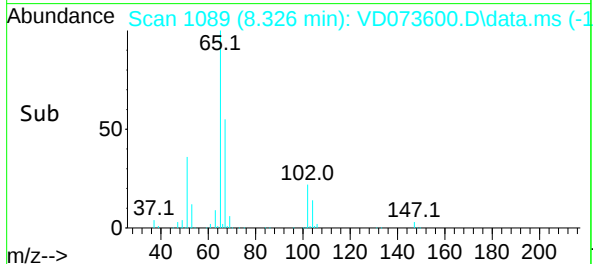
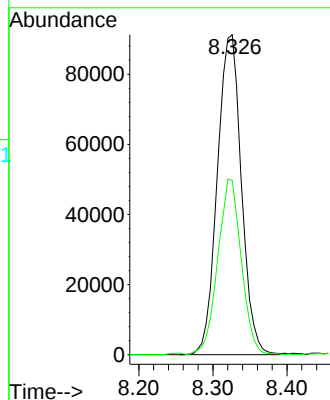
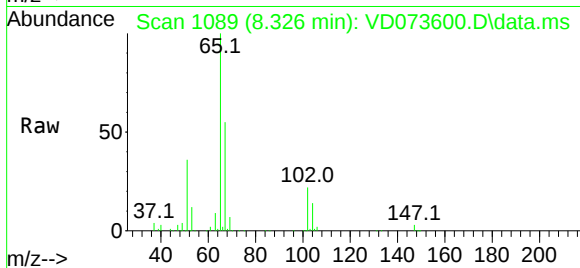
ClientSampleId :

Tgt Ion: 65 Resp: 206132

Ion Ratio Lower Upper

65 100

67 53.7 0.0 101.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.855 min Scan# 1179

Delta R.T. 0.000 min

Lab File: VD073600.D

Acq: 15 Jun 2022 19:30

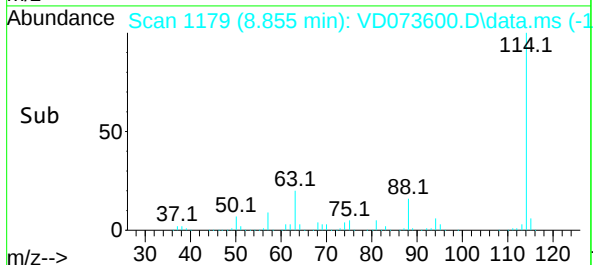
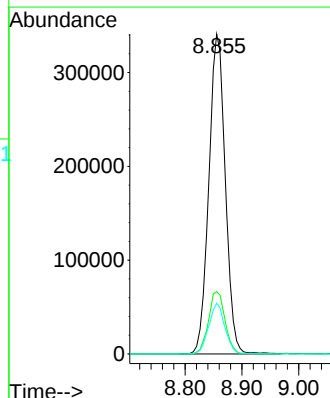
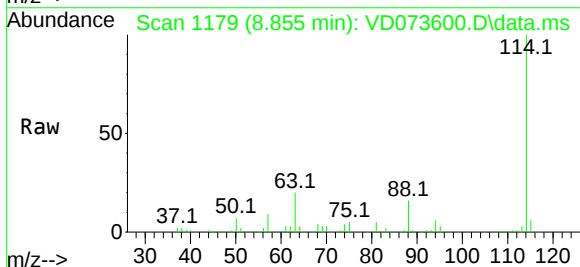
Tgt Ion: 114 Resp: 684831

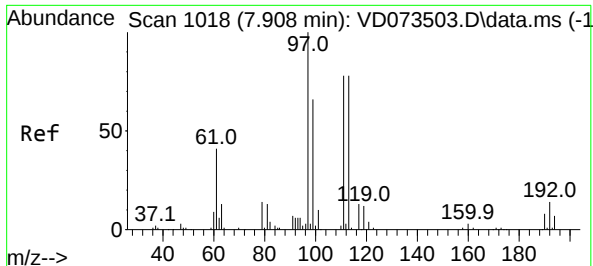
Ion Ratio Lower Upper

114 100

63 19.5 0.0 46.6

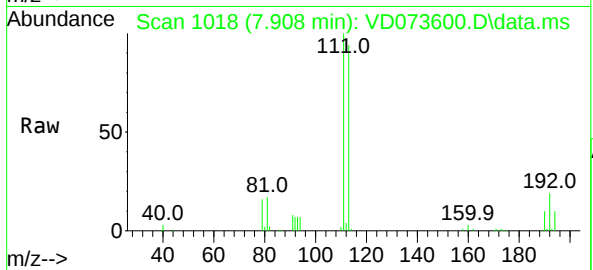
88 15.9 0.0 33.2



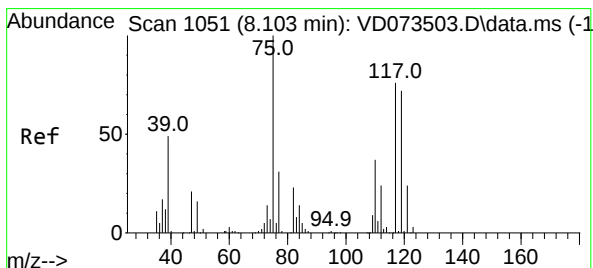
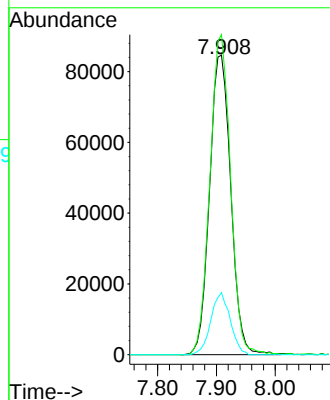
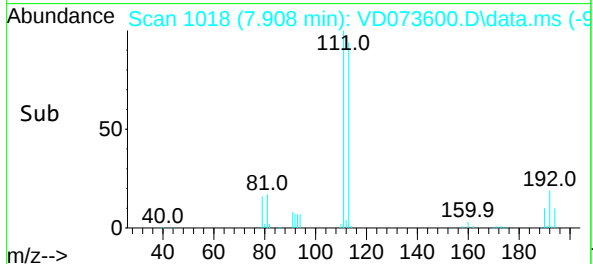


#35  
Dibromofluoromethane  
Concen: 48.174 ug/l  
RT: 7.908 min Scan# 1018  
Delta R.T. 0.000 min  
Lab File: VD073600.D  
Acq: 15 Jun 2022 19:30

Instrument :  
MSVOA\_D  
ClientSampleId :

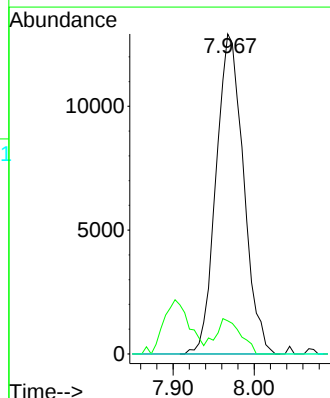
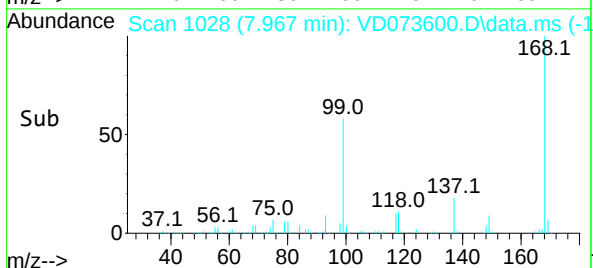
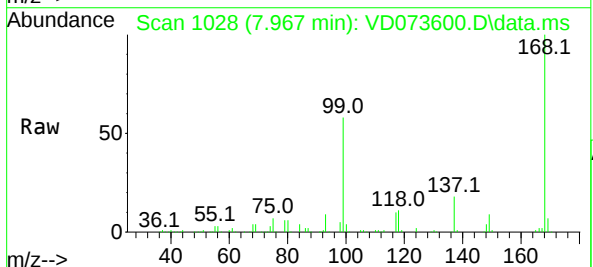


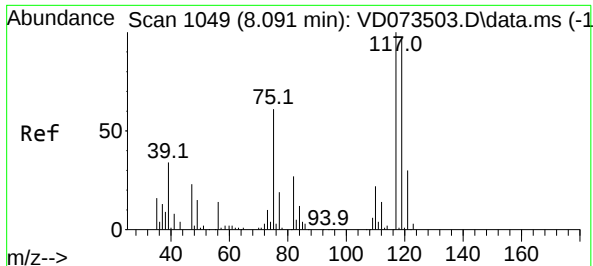
Tgt Ion:113 Resp: 212145  
Ion Ratio Lower Upper  
113 100  
111 104.4 83.8 125.6  
192 19.0 14.6 21.8



#36  
1,1-Dichloropropene  
Concen: 4.584 ug/l  
RT: 7.967 min Scan# 1028  
Delta R.T. -0.136 min  
Lab File: VD073600.D  
Acq: 15 Jun 2022 19:30

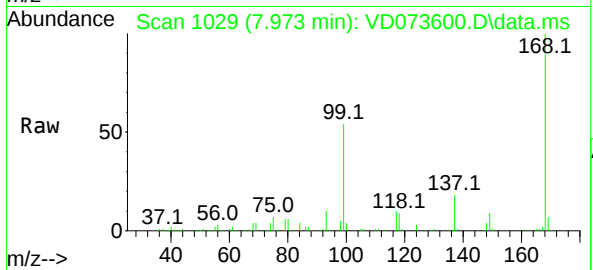
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Ion Ratio Lower Upper  
75 100  
110 10.1 16.4 49.1#  
77 0.0 24.2 36.2#



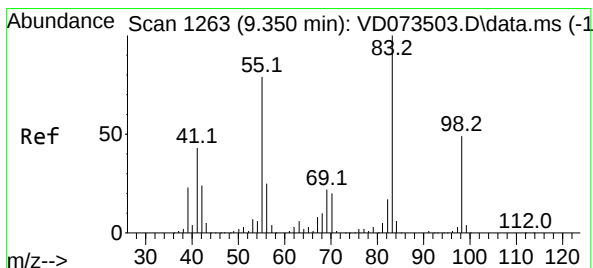
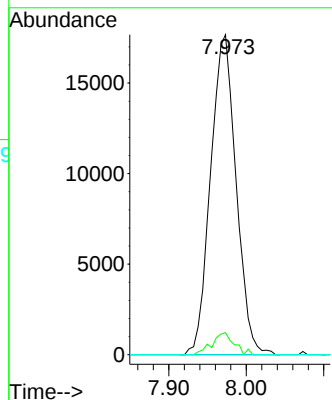
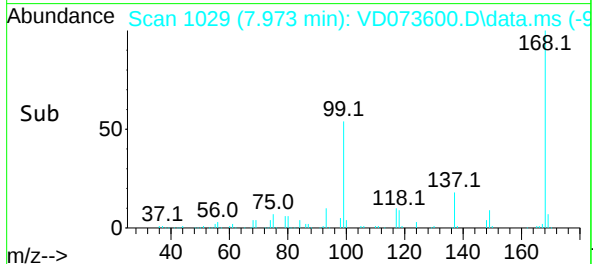


#38  
Carbon Tetrachloride  
Concen: 5.851 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. -0.118 min  
Lab File: VD073600.D  
Acq: 15 Jun 2022 19:30

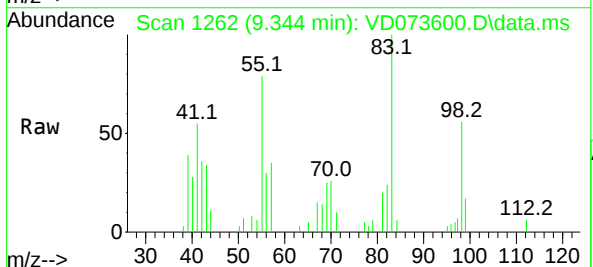
Instrument :  
MSVOA\_D  
ClientSampleId :



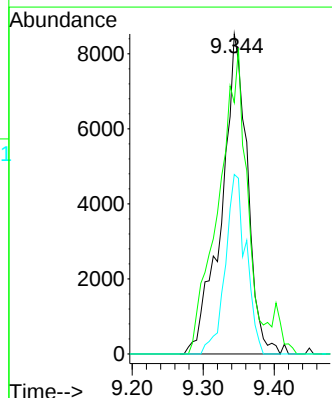
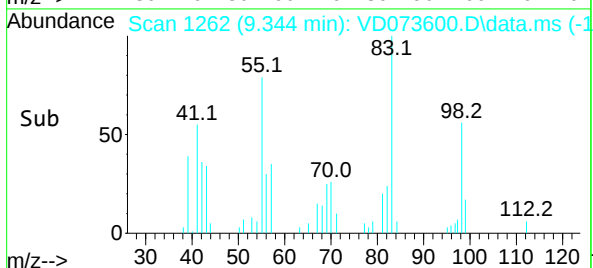
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Ion Ratio Lower Upper  
117 100  
119 6.9 75.8 113.6#  
121 0.0 24.5 36.7#

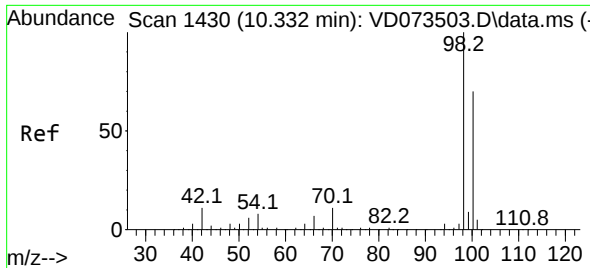


#39  
Methylcyclohexane  
Concen: 2.801 ug/l  
RT: 9.344 min Scan# 1262  
Delta R.T. -0.006 min  
Lab File: VD073600.D  
Acq: 15 Jun 2022 19:30



Tgt Ion: 83 Resp: 21591  
Ion Ratio Lower Upper  
83 100  
55 78.5 63.2 94.8  
98 56.1 38.2 57.4

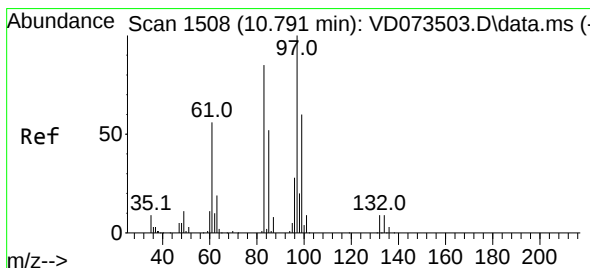
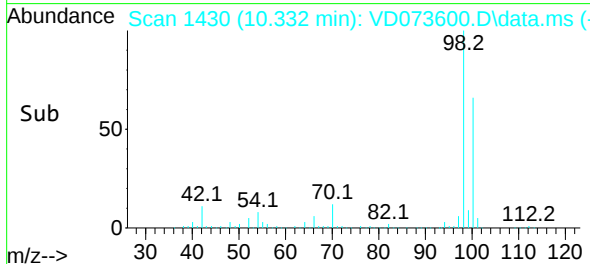
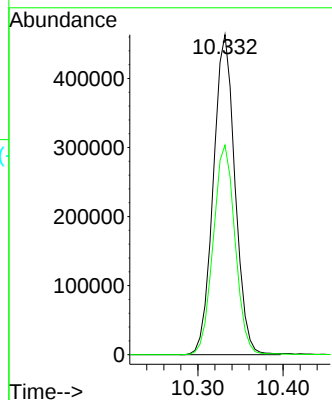
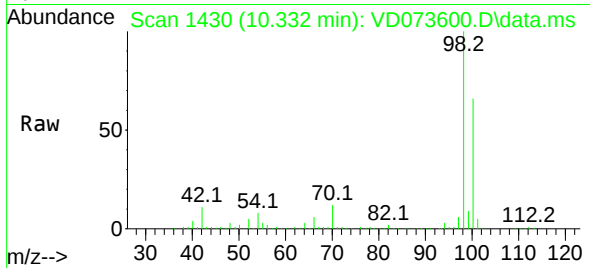




#50  
Toluene-d8  
Concen: 49.133 ug/l  
RT: 10.332 min Scan# 1430  
Delta R.T. -0.000 min  
Lab File: VD073600.D  
Acq: 15 Jun 2022 19:30

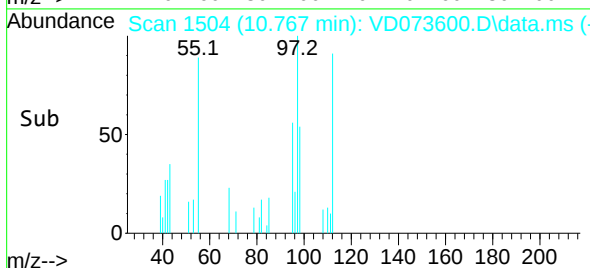
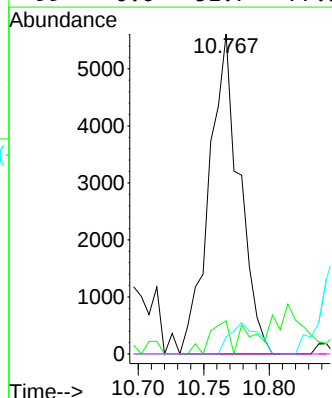
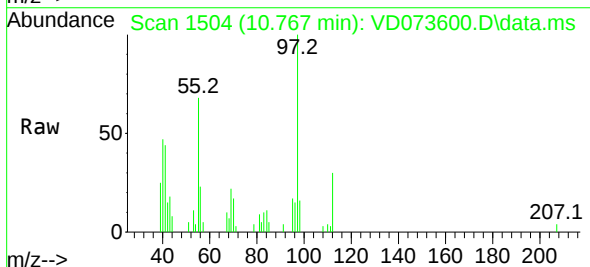
Instrument :  
MSVOA\_D  
ClientSampleId :

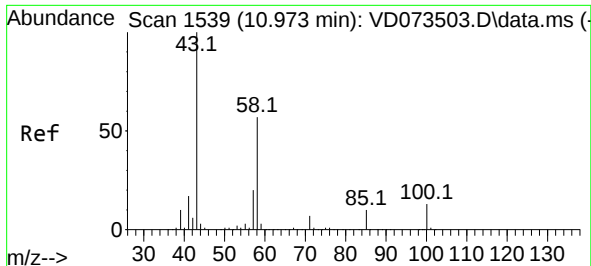
Tgt Ion: 98 Resp: 818064  
Ion Ratio Lower Upper  
98 100  
100 66.2 52.4 78.6



#55  
1,1,2-Trichloroethane  
Concen: 2.352 ug/l  
RT: 10.767 min Scan# 1504  
Delta R.T. -0.024 min  
Lab File: VD073600.D  
Acq: 15 Jun 2022 19:30

Tgt Ion: 97 Resp: 9006  
Ion Ratio Lower Upper  
97 100  
83 10.3 69.0 103.4#  
85 5.4 42.6 63.8#  
99 0.0 51.7 77.5#

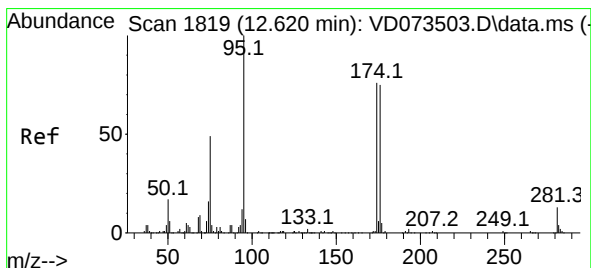
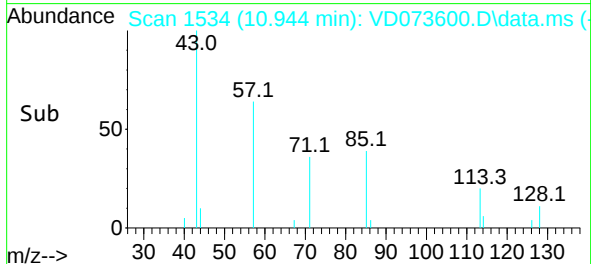
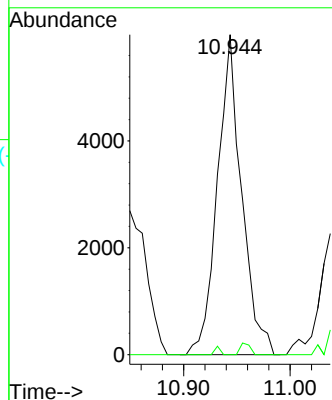
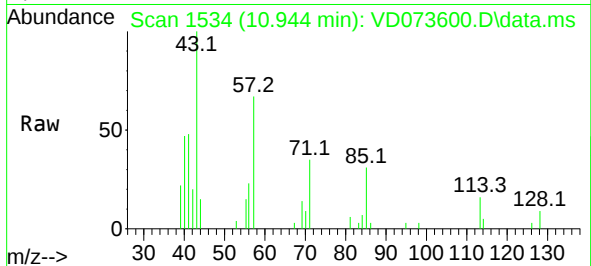




#59  
2-Hexanone  
Concen: 5.293 ug/l  
RT: 10.944 min Scan# 11  
Delta R.T. -0.029 min  
Lab File: VD073600.D  
Acq: 15 Jun 2022 19:30

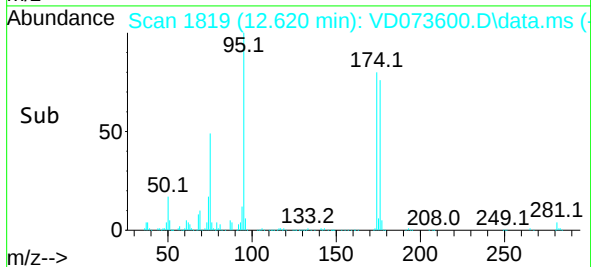
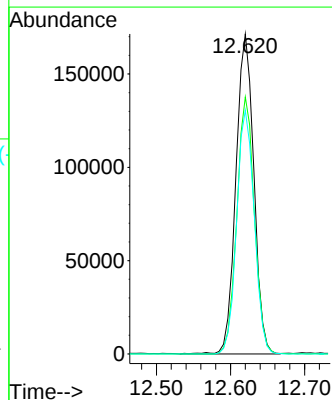
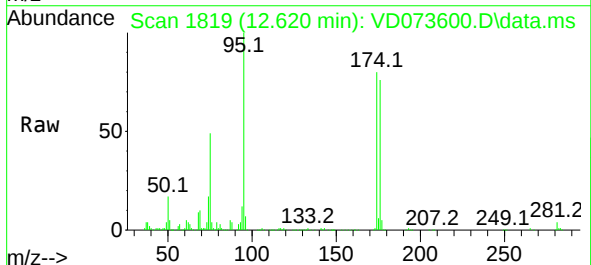
Instrument :  
MSVOA\_D  
ClientSampleId :

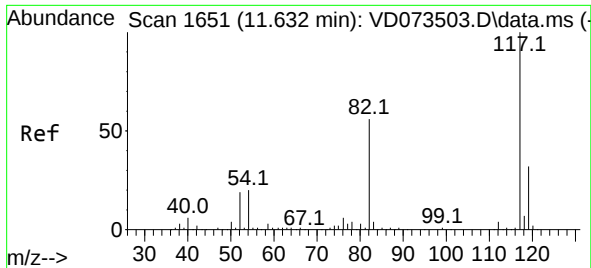
Tgt Ion: 43 Resp: 9429  
Ion Ratio Lower Upper  
43 100  
58 1.5 25.3 75.9#



#62  
4-Bromofluorobenzene  
Concen: 47.603 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. -0.000 min  
Lab File: VD073600.D  
Acq: 15 Jun 2022 19:30

Tgt Ion: 95 Resp: 287733  
Ion Ratio Lower Upper  
95 100  
174 78.6 0.0 152.8  
176 74.7 0.0 145.4

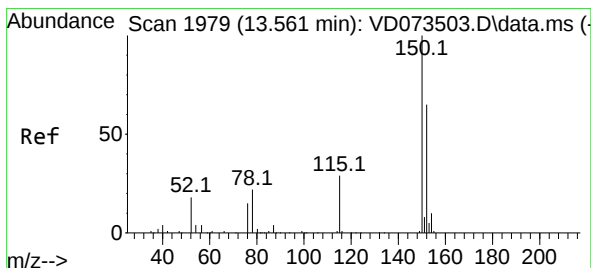
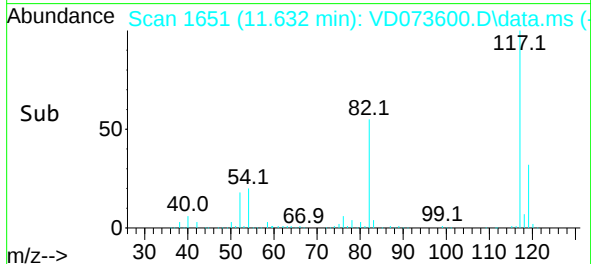
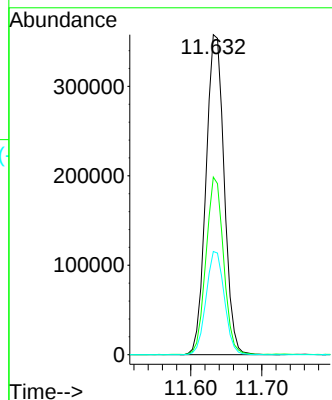
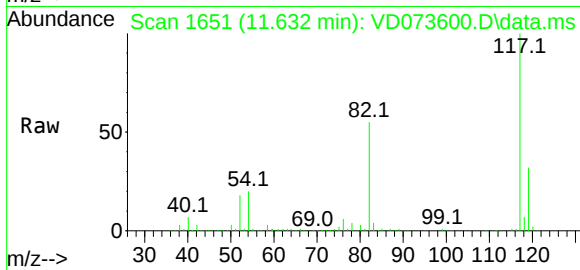




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.632 min Scan# 1651  
Delta R.T. -0.000 min  
Lab File: VD073600.D  
Acq: 15 Jun 2022 19:30

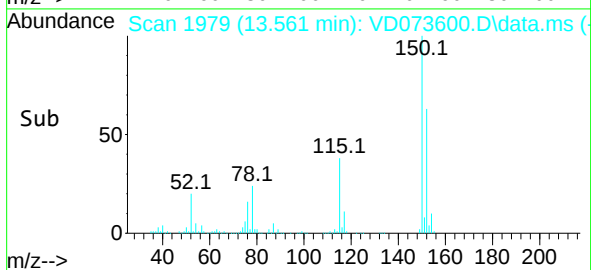
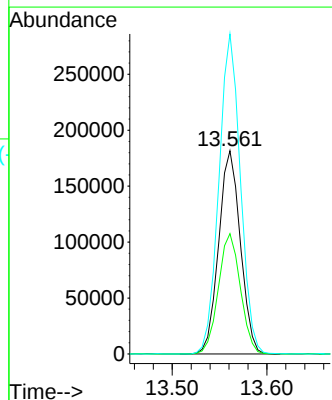
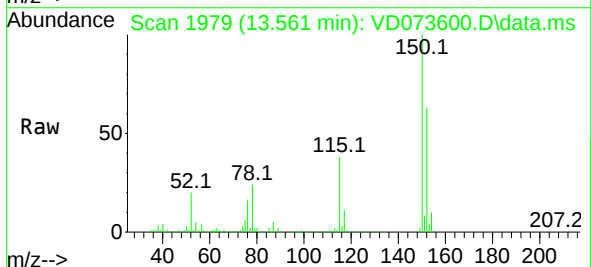
Instrument :  
MSVOA\_D  
ClientSampleId :

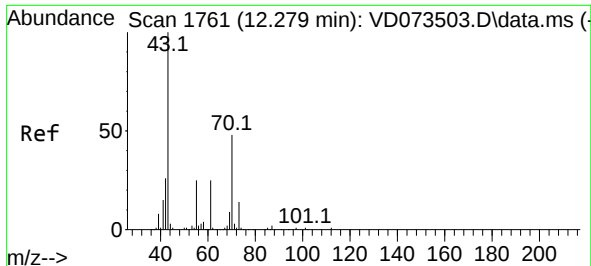
Tgt Ion:117 Resp: 637412  
Ion Ratio Lower Upper  
117 100  
82 55.4 45.3 67.9  
119 32.3 26.6 40.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.561 min Scan# 1979  
Delta R.T. 0.000 min  
Lab File: VD073600.D  
Acq: 15 Jun 2022 19:30

Tgt Ion:152 Resp: 289426  
Ion Ratio Lower Upper  
152 100  
115 60.0 31.3 93.8  
150 155.8 0.0 348.6

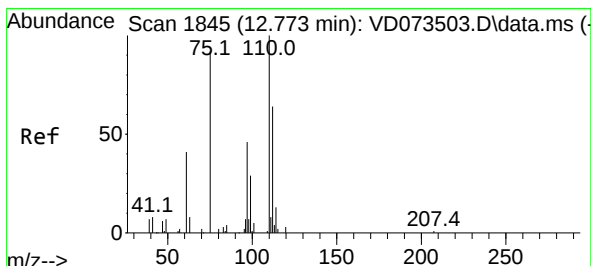
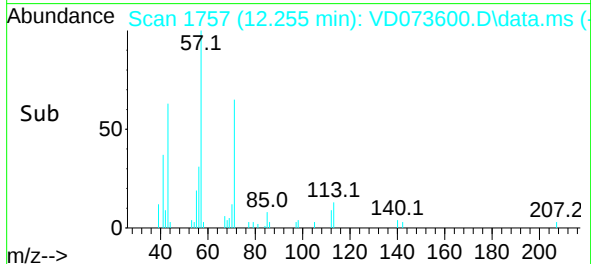
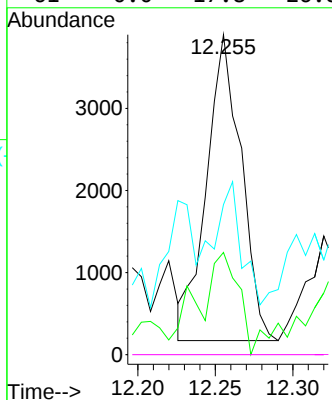
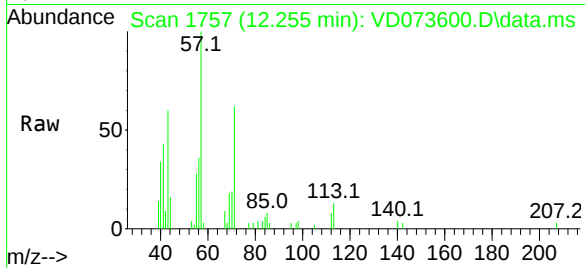




#74  
N-amy1 acetate  
Concen: 1.297 ug/l  
RT: 12.255 min Scan# 1819  
Delta R.T. -0.024 min  
Lab File: VD073600.D  
Acq: 15 Jun 2022 19:30

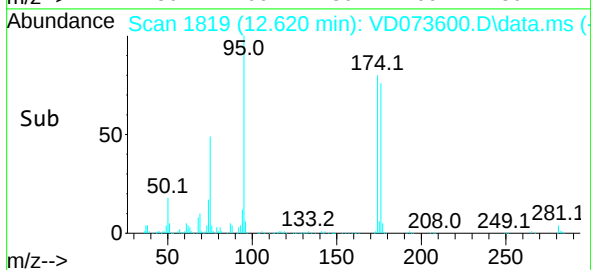
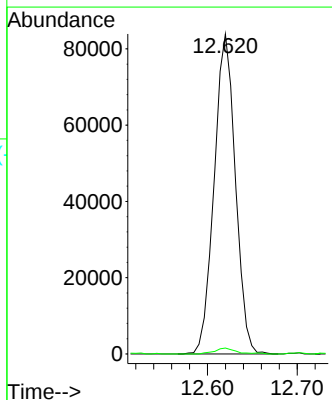
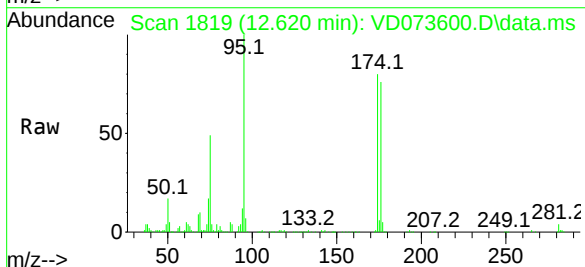
Instrument :  
MSVOA\_D  
ClientSampleId :

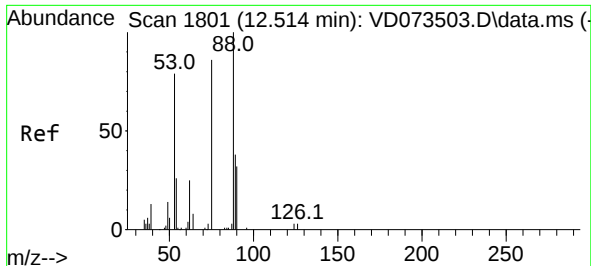
|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 5788  |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 70 29.3     | 31.3 46.9#  |
| 55 22.6     | 20.0 30.0   |
| 61 0.0      | 17.8 26.8#  |



#76  
1,2,3-Trichloropropane  
Concen: 48.973 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. -0.153 min  
Lab File: VD073600.D  
Acq: 15 Jun 2022 19:30

|             |              |
|-------------|--------------|
| Tgt Ion: 75 | Resp: 137696 |
| Ion Ratio   | Lower Upper  |
| 75 100      |              |
| 77 1.9      | 0.0 0.0#     |

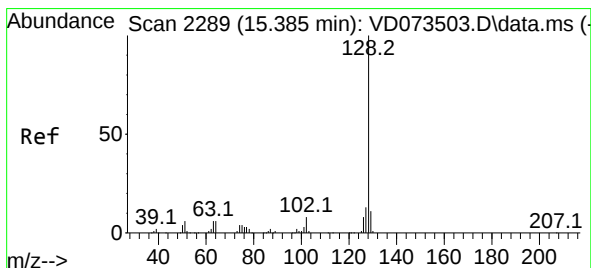
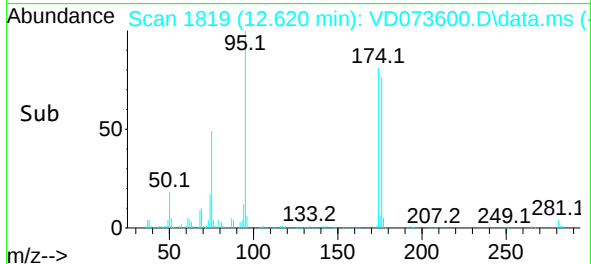
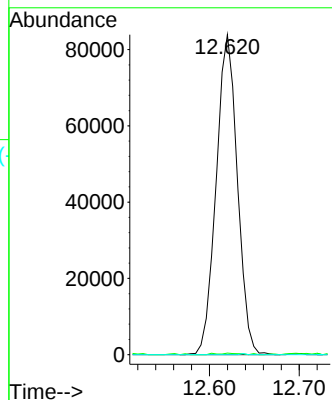
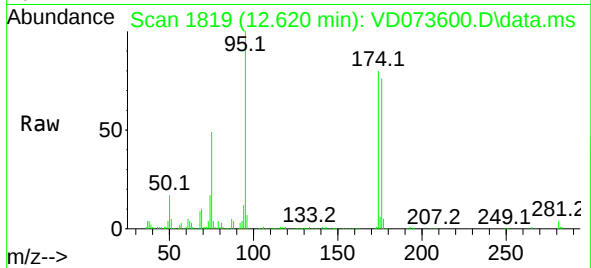




#81  
trans-1,4-Dichloro-2-butene  
Concen: 114.948 ug/l  
RT: 12.620 min Scan# 11  
Delta R.T. 0.106 min  
Lab File: VD073600.D  
Acq: 15 Jun 2022 19:30

Instrument :  
MSVOA\_D  
ClientSampleId :

Tgt Ion: 75 Resp: 137696  
Ion Ratio Lower Upper  
75 100  
53 0.5 86.5 129.7#  
89 0.1 33.9 50.9#



#95  
Naphthalene  
Concen: 4.250 ug/l  
RT: 15.390 min Scan# 2290  
Delta R.T. 0.005 min  
Lab File: VD073600.D  
Acq: 15 Jun 2022 19:30

Tgt Ion: 128 Resp: 524  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.3 15.5#  
129 0.0 8.4 12.6#

