

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD052322\  
 Data File : VD073301.D  
 Acq On : 24 May 2022 00:59  
 Operator : VA/SY  
 Sample : N2949-01  
 Misc : 5.73G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 P037-SS001-2430-01

Quant Time: May 24 03:31:28 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D051922S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 19 15:13:42 2022  
 Response via : Initial Calibration

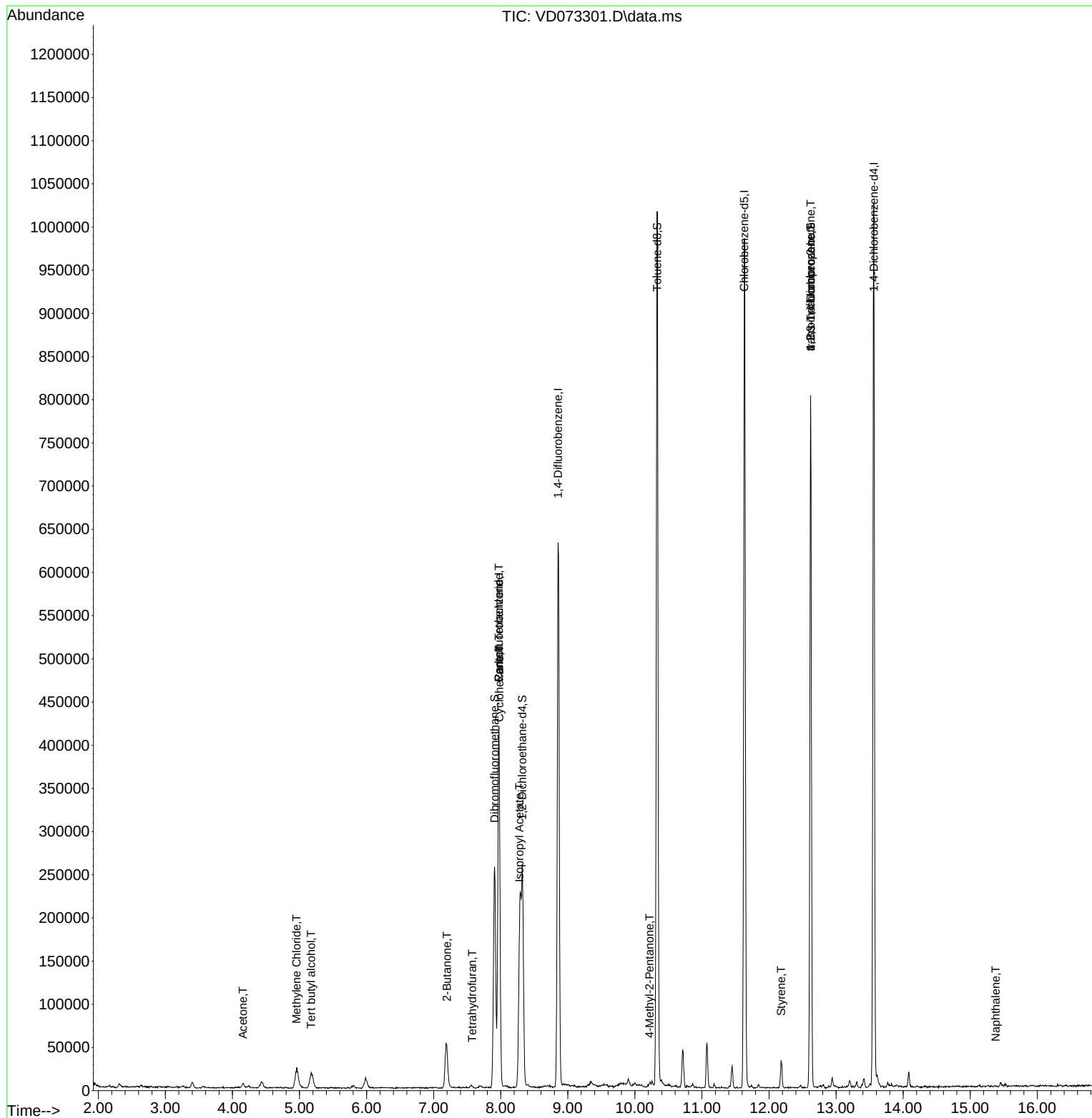
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.973  | 168   | 298078   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.856  | 114   | 544537   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.632 | 117   | 570684   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.561 | 152   | 265057   | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.320  | 65    | 176906   | 53.703    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | = 107.400% |          |
| 35) Dibromofluoromethane      | 7.909  | 113   | 185001   | 51.486    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | = 102.980% |          |
| 50) Toluene-d8                | 10.332 | 98    | 669093   | 50.515    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery  | = 101.020% |          |
| 62) 4-Bromofluorobenzene      | 12.620 | 95    | 259469   | 55.819    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery  | = 111.640% |          |
| Target Compounds              |        |       |          |           |            |          |
|                               |        |       |          |           | Qvalue     |          |
| 5) Bromomethane               | 2.797  | 94    | 912      | Below Cal | #          | 53       |
| 11) Tert butyl alcohol        | 5.173  | 59    | 15853    | 31.018    | ug/l #     | 75       |
| 16) Acetone                   | 4.156  | 43    | 8539     | 14.965    | ug/l #     | 83       |
| 20) Methylene Chloride        | 4.956  | 84    | 17902    | 1.036     | ug/l #     | 76       |
| 25) 2-Butanone                | 7.197  | 43    | 2422     | 2.901     | ug/l #     | 52       |
| 29) Tetrahydrofuran           | 7.573  | 42    | 2023     | 3.748     | ug/l #     | 40       |
| 31) Cyclohexane               | 7.979  | 56    | 7217     | 1.254     | ug/l #     | 4        |
| 38) Carbon Tetrachloride      | 7.973  | 117   | 30451    | 5.559     | ug/l #     | 19       |
| 43) Isopropyl Acetate         | 8.279  | 43    | 6002     | 1.521     | ug/l #     | 11       |
| 51) 4-Methyl-2-Pentanone      | 10.220 | 43    | 2147     | 1.048     | ug/l       | 90       |
| 70) Styrene                   | 12.179 | 104   | 15402    | 1.220     | ug/l #     | 87       |
| 76) 1,2,3-Trichloropropane    | 12.620 | 75    | 127945   | 49.197    | ug/l #     | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.620 | 75    | 127945   | 118.107   | ug/l #     | 7        |
| 95) Naphthalene               | 15.379 | 128   | 563      | 3.602     | ug/l #     | 70       |
| -----                         |        |       |          |           |            |          |

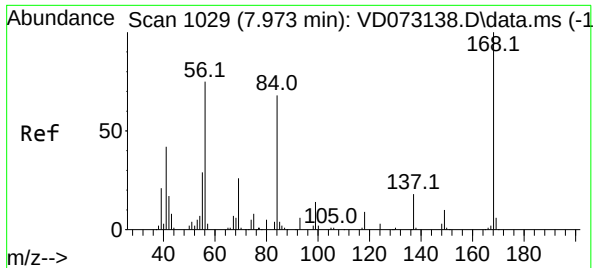
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Thu May 19 15:13:42 2022  
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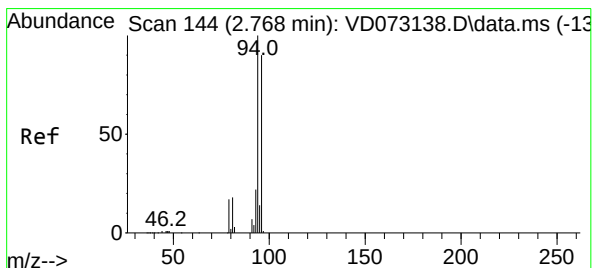
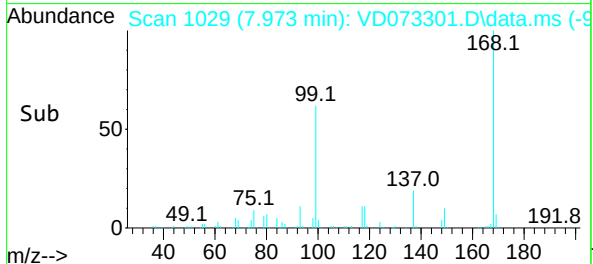
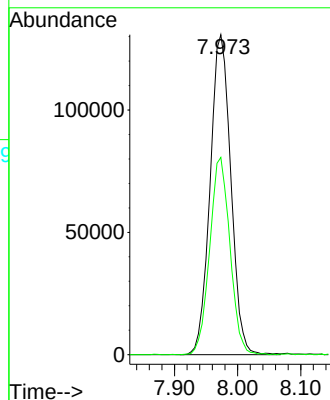
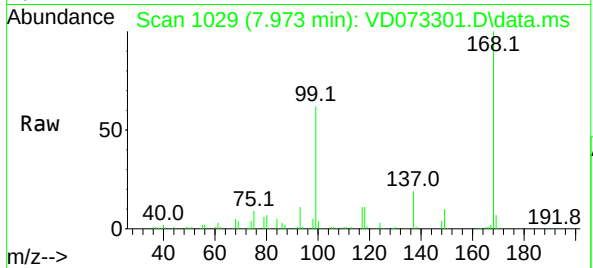




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. 0.000 min  
Lab File: VD073301.D  
Acq: 24 May 2022 00:59

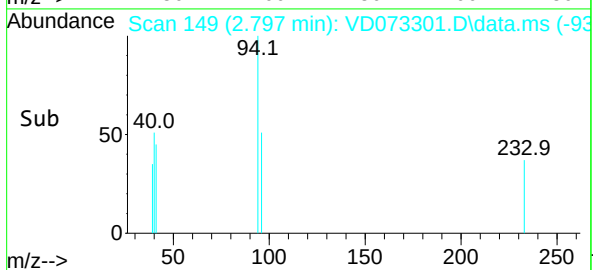
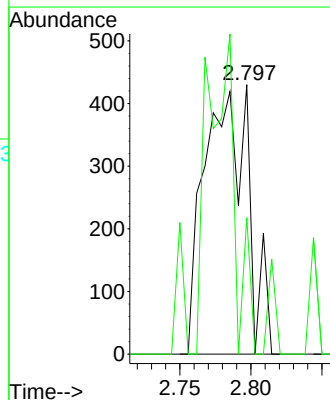
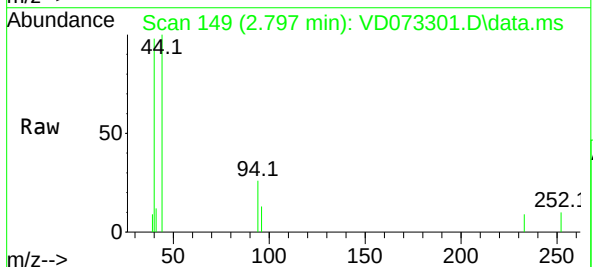
Instrument :  
MSVOA\_D  
ClientSampleId :  
P037-SS001-2430-01

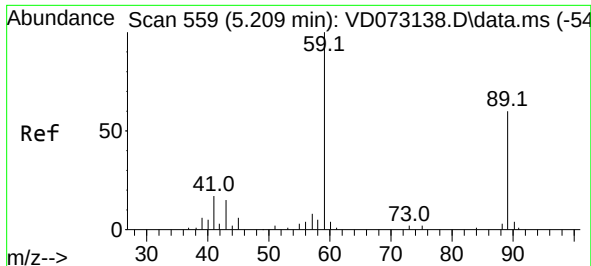
Tgt Ion:168 Resp: 298078  
Ion Ratio Lower Upper  
168 100  
99 61.7 49.8 74.6



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.797 min Scan# 149  
Delta R.T. 0.029 min  
Lab File: VD073301.D  
Acq: 24 May 2022 00:59

Tgt Ion: 94 Resp: 912  
Ion Ratio Lower Upper  
94 100  
96 50.7 77.6 116.4#

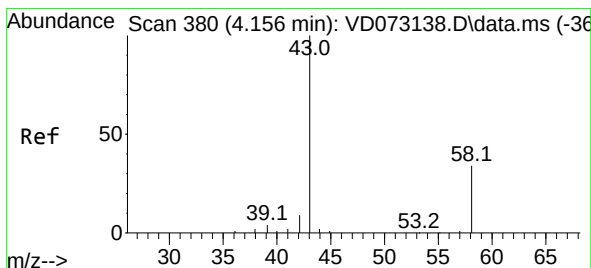
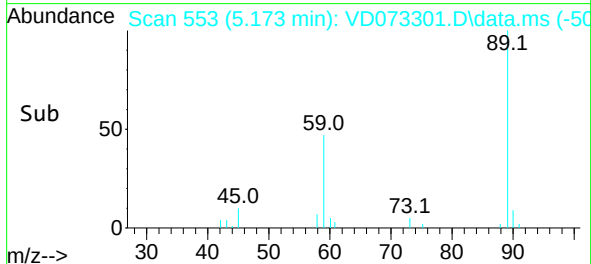
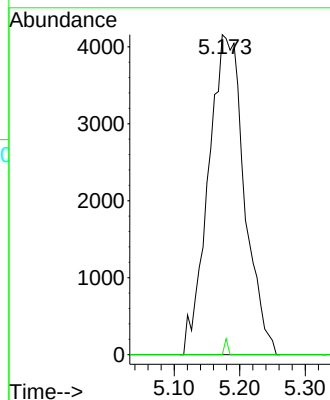
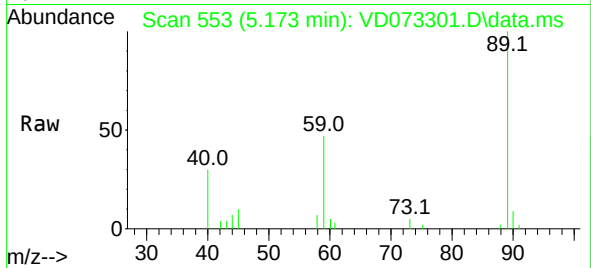




#11  
Tert butyl alcohol  
Concen: 31.018 ug/l  
RT: 5.173 min Scan# 51  
Delta R.T. -0.036 min  
Lab File: VD073301.D  
Acq: 24 May 2022 00:59

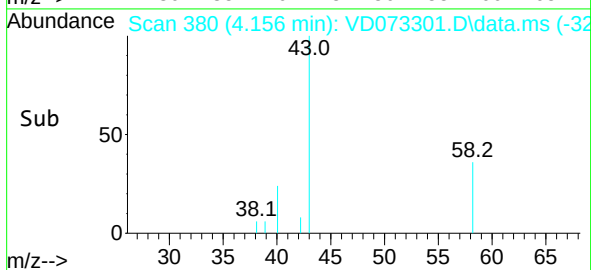
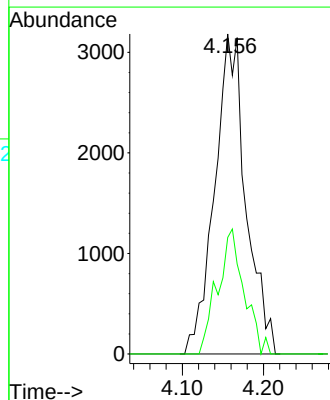
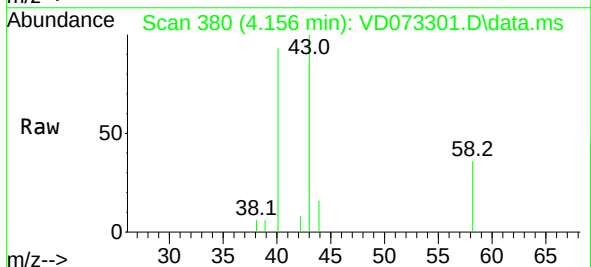
Instrument :  
MSVOA\_D  
ClientSampleId :  
P037-SS001-2430-01

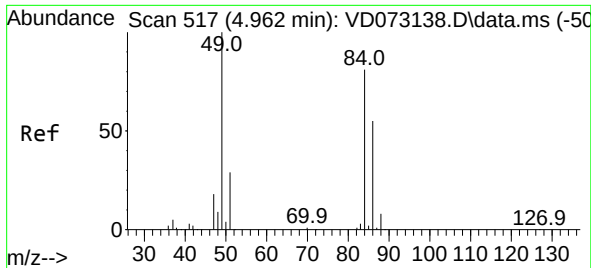
Tgt Ion: 59 Resp: 15853  
Ion Ratio Lower Upper  
59 100  
57 0.5 7.8 11.6#



#16  
Acetone  
Concen: 14.965 ug/l  
RT: 4.156 min Scan# 380  
Delta R.T. -0.000 min  
Lab File: VD073301.D  
Acq: 24 May 2022 00:59

Tgt Ion: 43 Resp: 8539  
Ion Ratio Lower Upper  
43 100  
58 36.4 22.1 33.1#

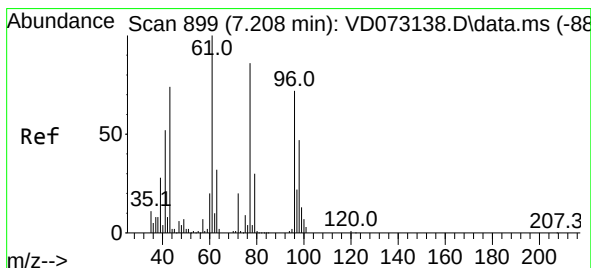
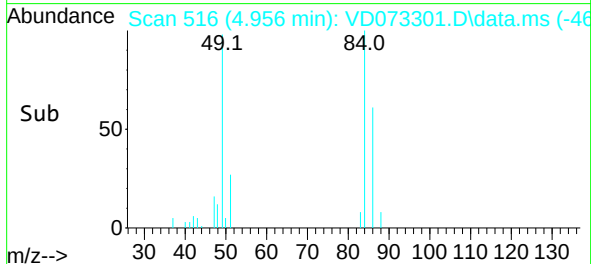
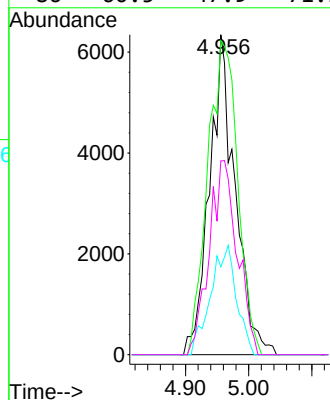
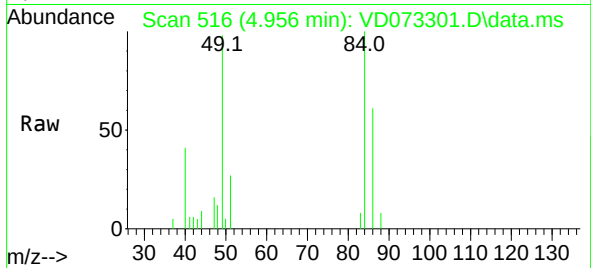




#20  
Methylene Chloride  
Concen: 1.036 ug/l  
RT: 4.956 min Scan# 517  
Delta R.T. -0.006 min  
Lab File: VD073301.D  
Acq: 24 May 2022 00:59

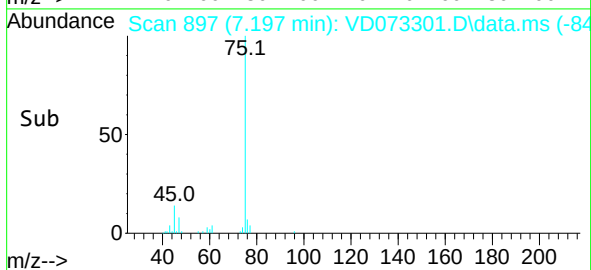
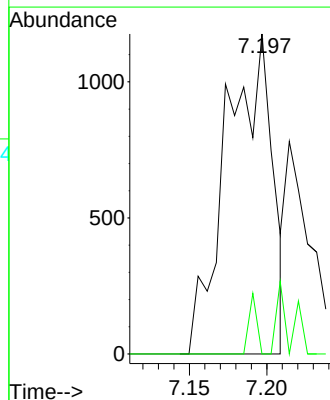
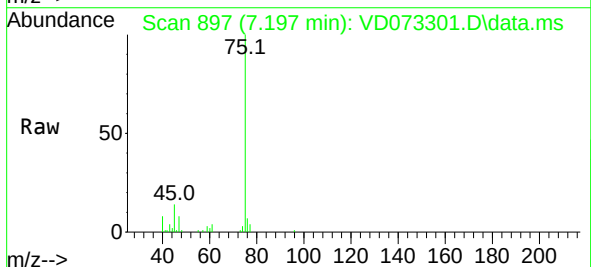
Instrument :  
MSVOA\_D  
ClientSampleId :  
P037-SS001-2430-01

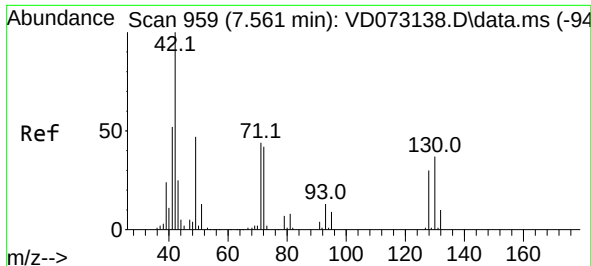
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 17902  |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 98.2  | 112.8 | 169.2# |
| 51       | 27.5  | 32.6  | 48.8#  |
| 86       | 60.5  | 47.9  | 71.9   |



#25  
2-Butanone  
Concen: 2.901 ug/l  
RT: 7.197 min Scan# 897  
Delta R.T. -0.011 min  
Lab File: VD073301.D  
Acq: 24 May 2022 00:59

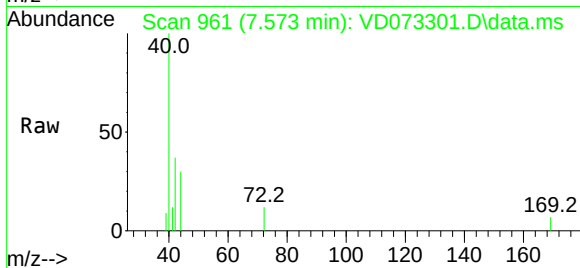
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 2422  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 0.0   | 18.6  | 27.8# |



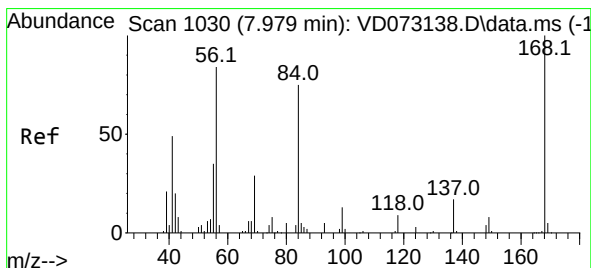
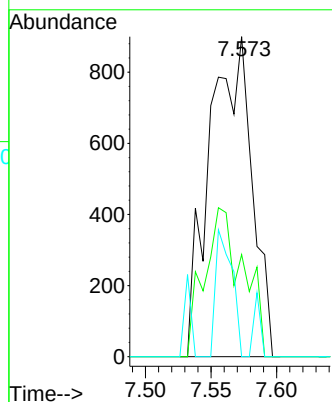
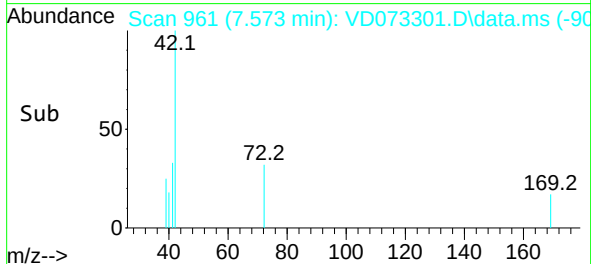


#29  
Tetrahydrofuran  
Concen: 3.748 ug/l  
RT: 7.573 min Scan# 90  
Delta R.T. 0.012 min  
Lab File: VD073301.D  
Acq: 24 May 2022 00:59

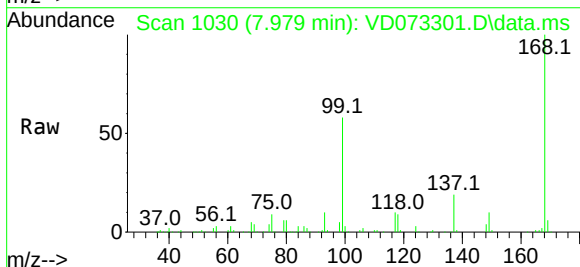
Instrument :  
MSVOA\_D  
ClientSampleId :  
P037-SS001-2430-01



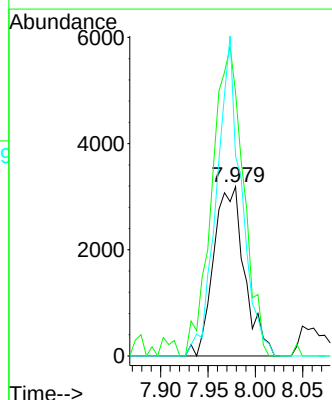
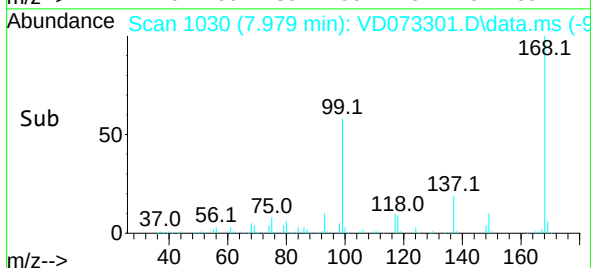
Tgt Ion: 42 Resp: 2023  
Ion Ratio Lower Upper  
42 100  
72 0.0 30.7 46.1#  
71 3.2 28.6 43.0#

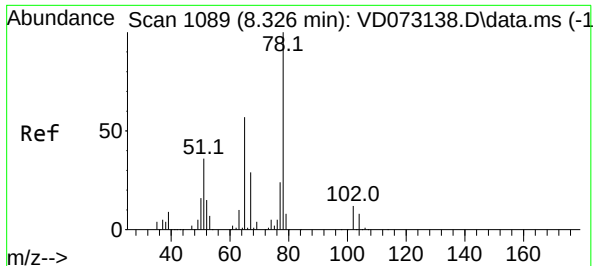


#31  
Cyclohexane  
Concen: 1.254 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. 0.000 min  
Lab File: VD073301.D  
Acq: 24 May 2022 00:59



Tgt Ion: 56 Resp: 7217  
Ion Ratio Lower Upper  
56 100  
69 155.7 25.4 38.2#  
84 118.1 63.0 94.4#





#33

1,2-Dichloroethane-d4

Concen: 53.703 ug/l

RT: 8.320 min Scan# 1089

Delta R.T. -0.006 min

Lab File: VD073301.D

Acq: 24 May 2022 00:59

Instrument :

MSVOA\_D

ClientSampleId :

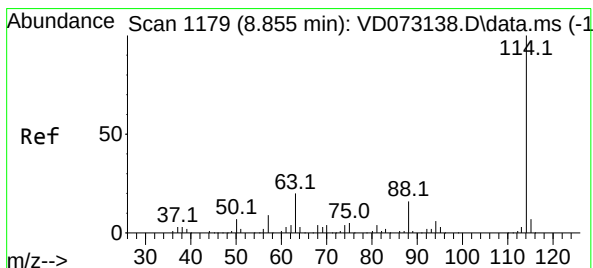
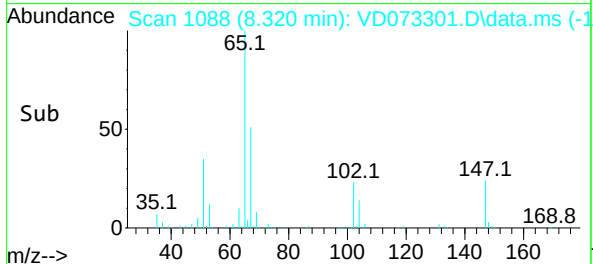
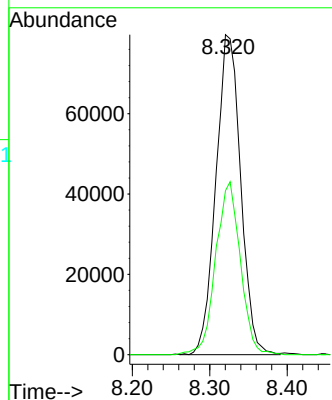
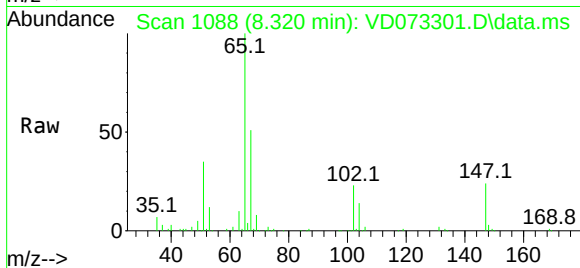
P037-SS001-2430-01

Tgt Ion: 65 Resp: 176906

Ion Ratio Lower Upper

65 100

67 53.8 0.0 101.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.856 min Scan# 1179

Delta R.T. 0.001 min

Lab File: VD073301.D

Acq: 24 May 2022 00:59

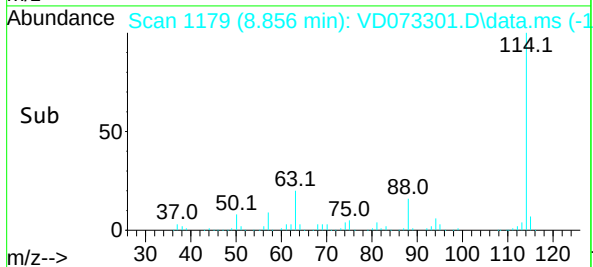
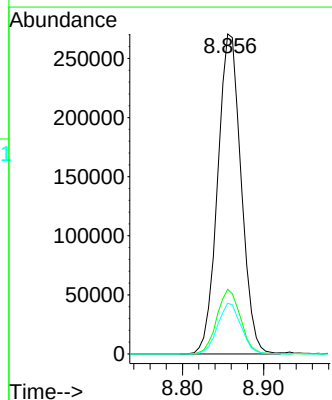
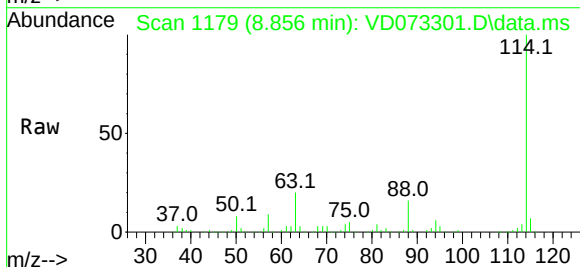
Tgt Ion: 114 Resp: 544537

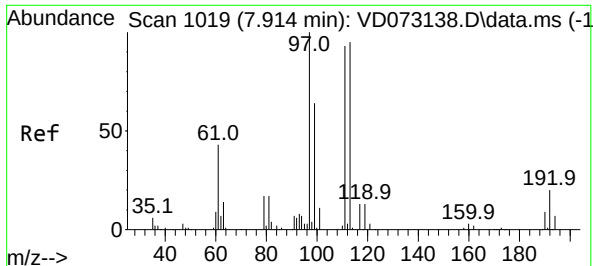
Ion Ratio Lower Upper

114 100

63 20.2 0.0 46.6

88 15.9 0.0 33.2





#35

Dibromofluoromethane

Concen: 51.486 ug/l

RT: 7.909 min Scan# 1018

Delta R.T. -0.005 min

Lab File: VD073301.D

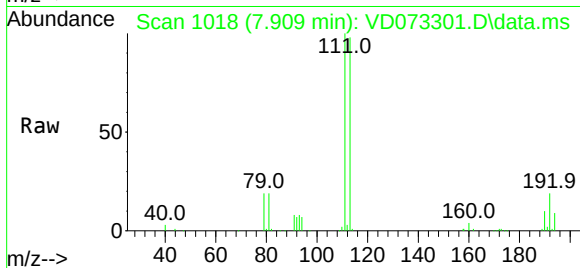
Acq: 24 May 2022 00:59

Instrument :

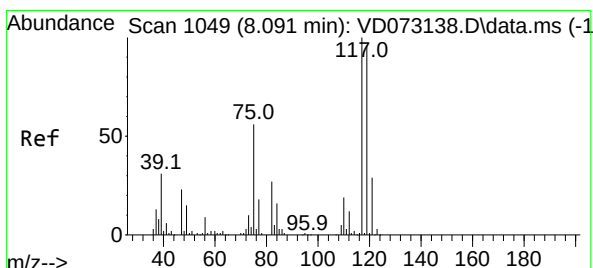
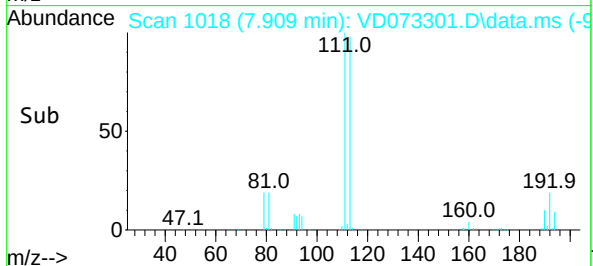
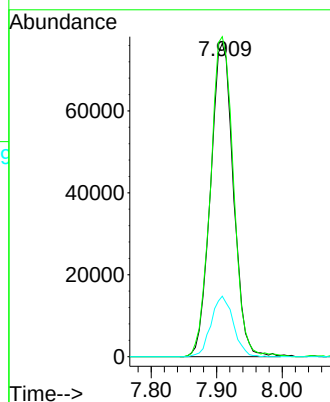
MSVOA\_D

ClientSampleId :

P037-SS001-2430-01



|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 113   | Resp: | 185001 |
| Ion      | Ratio | Lower | Upper  |
| 113      | 100   |       |        |
| 111      | 103.2 | 83.8  | 125.6  |
| 192      | 18.8  | 14.6  | 21.8   |



#38

Carbon Tetrachloride

Concen: 5.559 ug/l

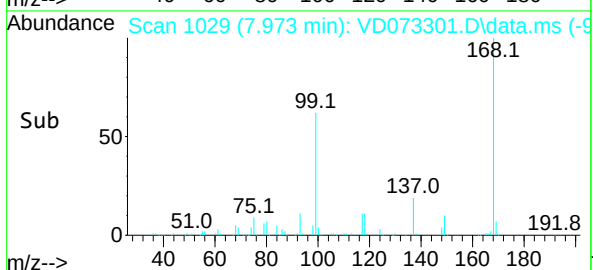
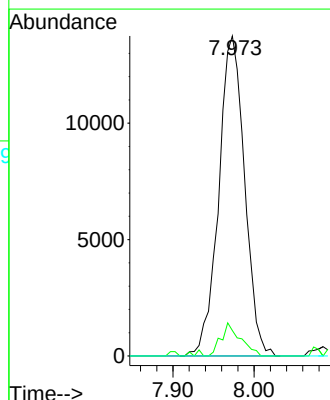
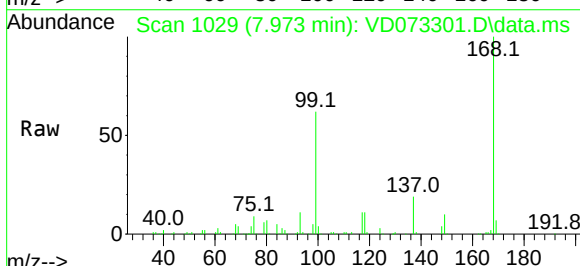
RT: 7.973 min Scan# 1029

Delta R.T. -0.118 min

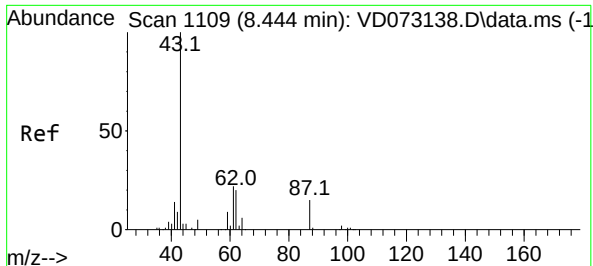
Lab File: VD073301.D

Acq: 24 May 2022 00:59

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 30451  |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 8.0   | 75.8  | 113.6# |
| 121      | 0.0   | 24.5  | 36.7#  |







#43

Isopropyl Acetate

Concen: 1.521 ug/l

RT: 8.279 min Scan# 1081

Delta R.T. -0.165 min

Lab File: VD073301.D

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Instrument :

MSVOA\_D

ClientSampleId :

P037-SS001-2430-01

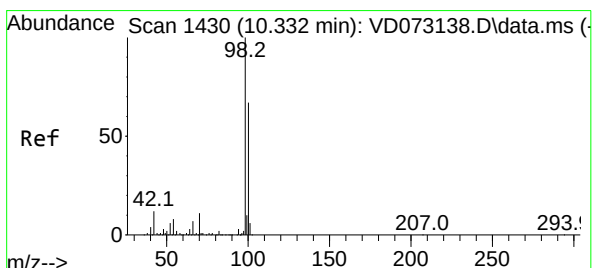
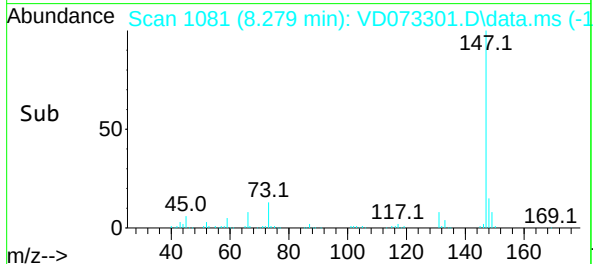
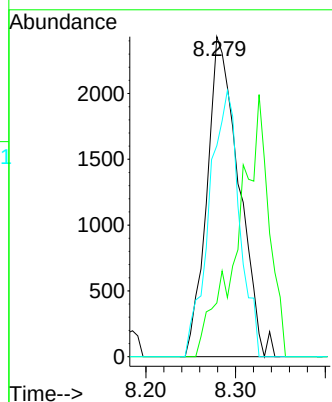
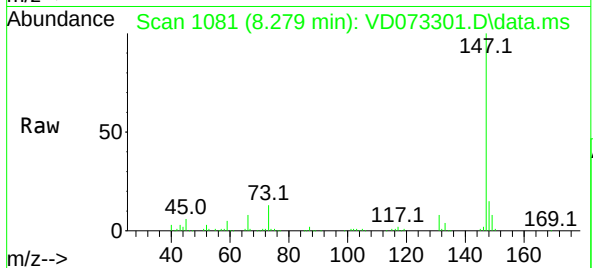
Tgt Ion: 43 Resp: 6002

Ion Ratio Lower Upper

43 100

61 0.0 22.4 33.6#

87 79.1 8.7 13.1#



#50

Toluene-d8

Concen: 50.515 ug/l

RT: 10.332 min Scan# 1430

Delta R.T. -0.000 min

Lab File: VD073301.D

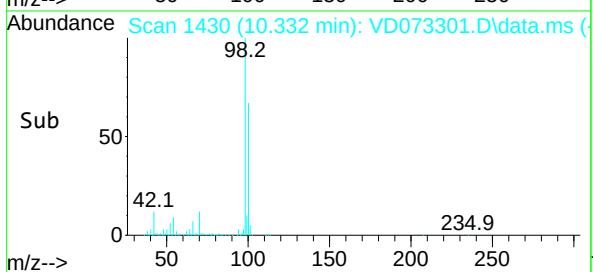
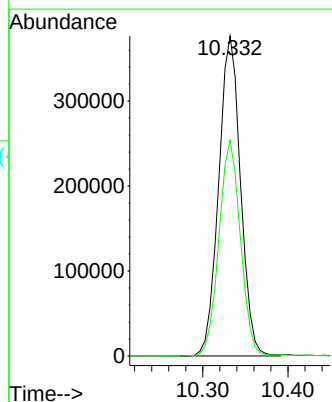
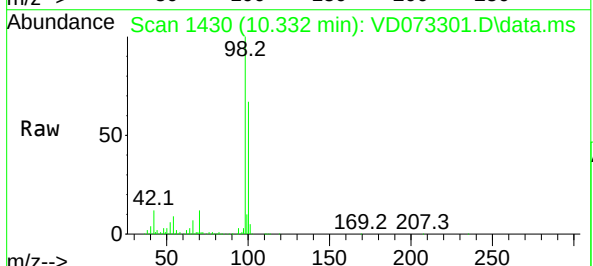
Acq: 24 May 2022 00:59

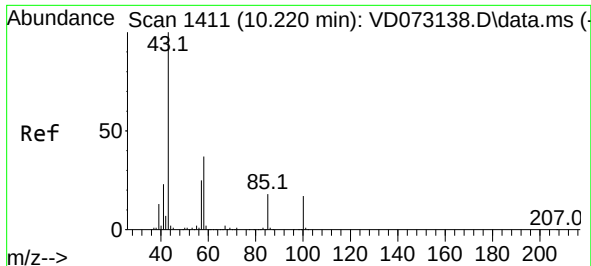
Tgt Ion: 98 Resp: 669093

Ion Ratio Lower Upper

98 100

100 66.6 52.4 78.6

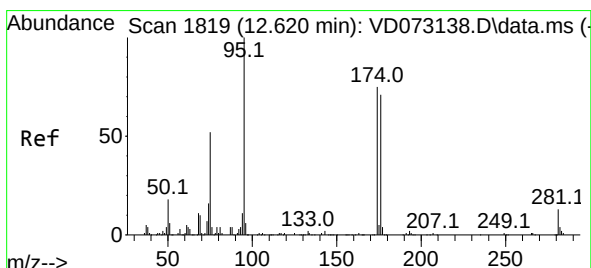
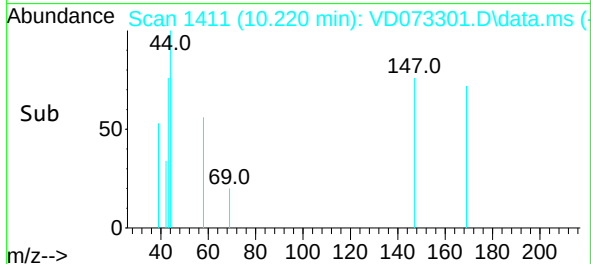
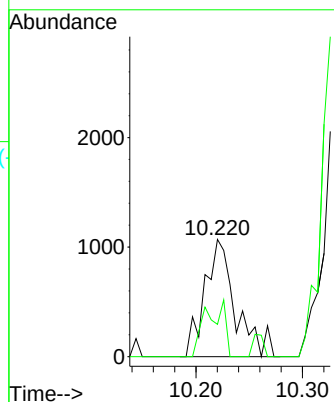
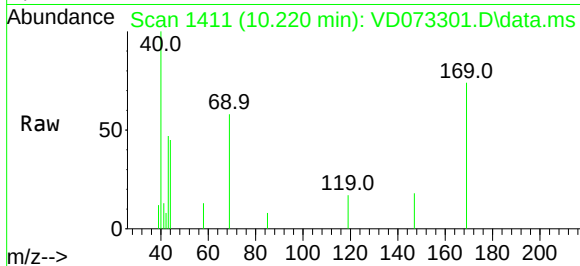




#51  
4-Methyl-2-Pentanone  
Concen: 1.048 ug/l  
RT: 10.220 min Scan# 1411  
Delta R.T. 0.000 min  
Lab File: VD073301.D  
Acq: 24 May 2022 00:59

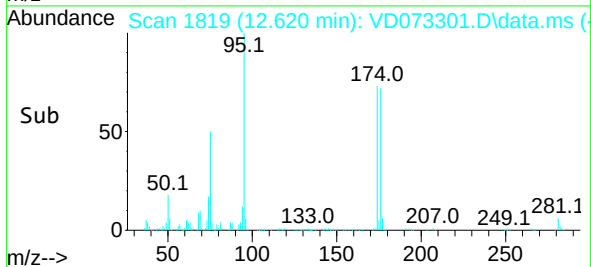
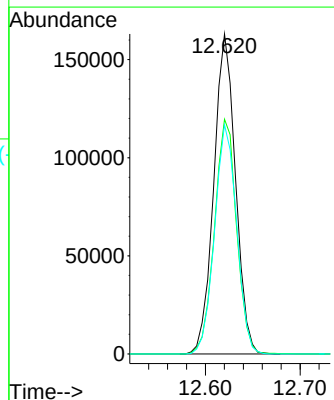
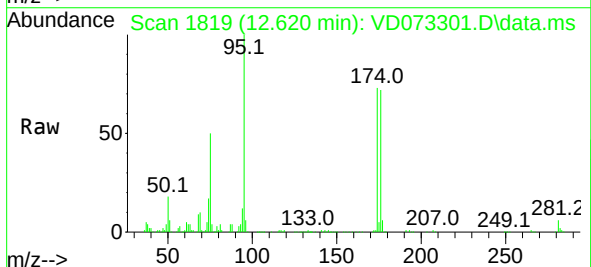
Instrument :  
MSVOA\_D  
ClientSampleId :  
P037-SS001-2430-01

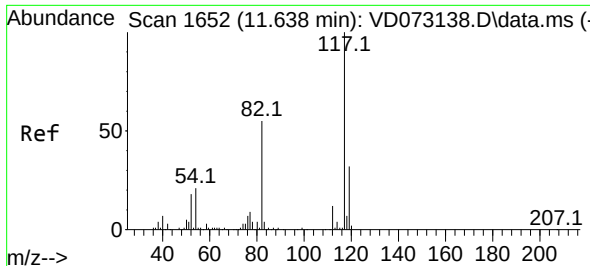
Tgt Ion: 43 Resp: 2147  
Ion Ratio Lower Upper  
43 100  
58 30.1 28.6 43.0



#62  
4-Bromofluorobenzene  
Concen: 55.819 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. 0.000 min  
Lab File: VD073301.D  
Acq: 24 May 2022 00:59

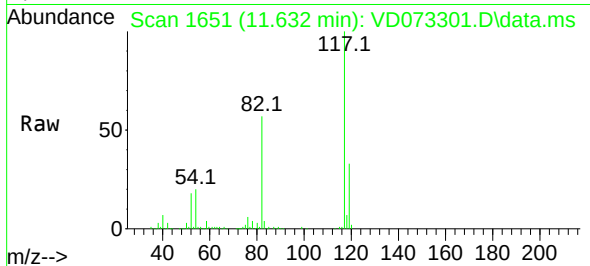
Tgt Ion: 95 Resp: 259469  
Ion Ratio Lower Upper  
95 100  
174 74.7 0.0 152.8  
176 72.7 0.0 145.4



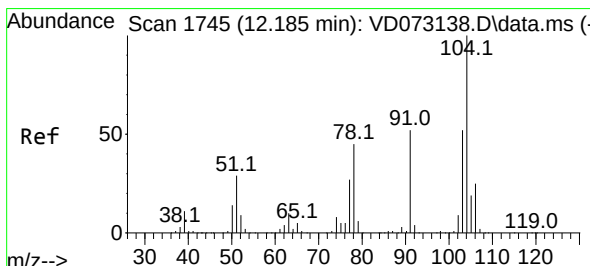
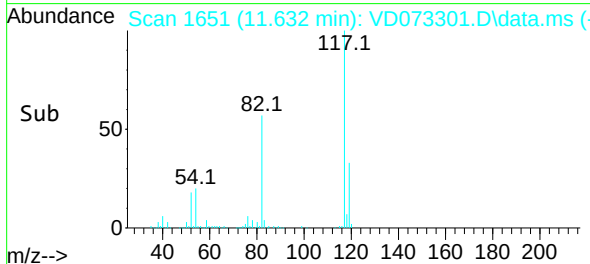
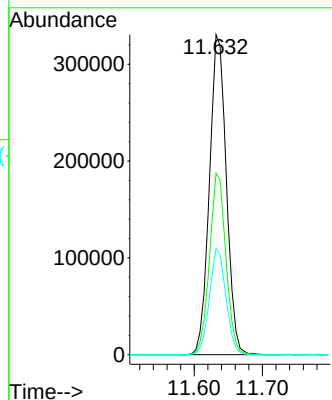


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.632 min Scan# 1  
Delta R.T. -0.006 min  
Lab File: VD073301.D  
Acq: 24 May 2022 00:59

Instrument :  
MSVOA\_D  
ClientSampleId :  
P037-SS001-2430-01

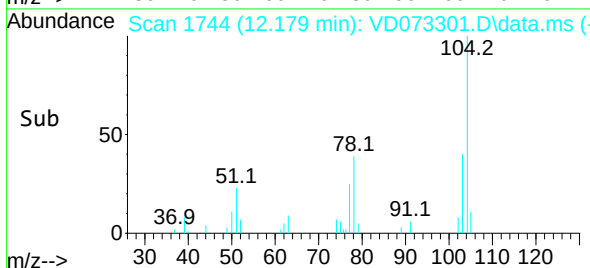
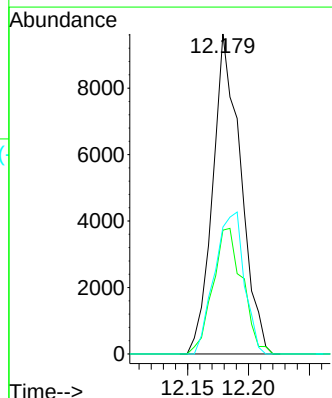
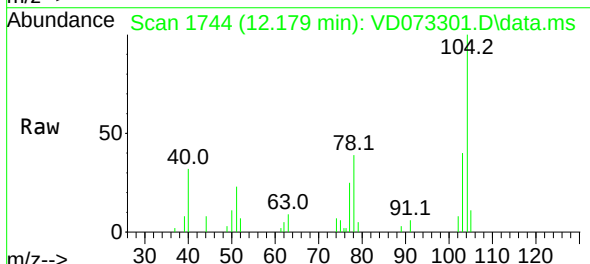


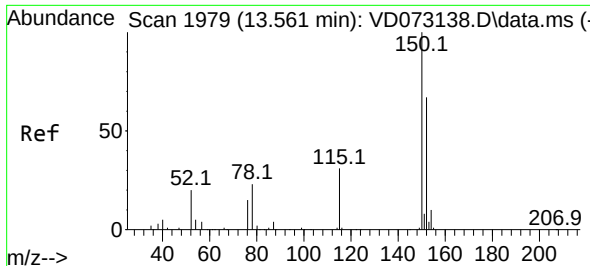
Tgt Ion:117 Resp: 570684  
Ion Ratio Lower Upper  
117 100  
82 56.7 45.3 67.9  
119 33.1 26.6 40.0



#70  
Styrene  
Concen: 1.220 ug/l  
RT: 12.179 min Scan# 1744  
Delta R.T. -0.006 min  
Lab File: VD073301.D  
Acq: 24 May 2022 00:59

Tgt Ion:104 Resp: 15402  
Ion Ratio Lower Upper  
104 100  
78 41.6 41.8 62.8#  
103 46.8 44.2 66.4

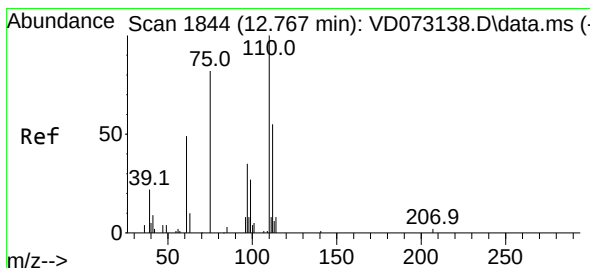
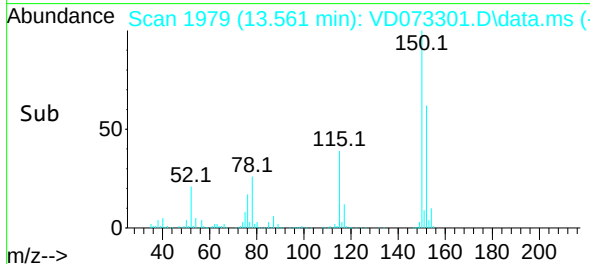
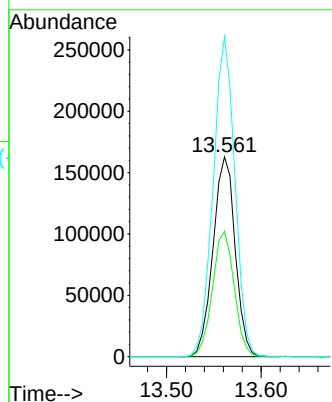
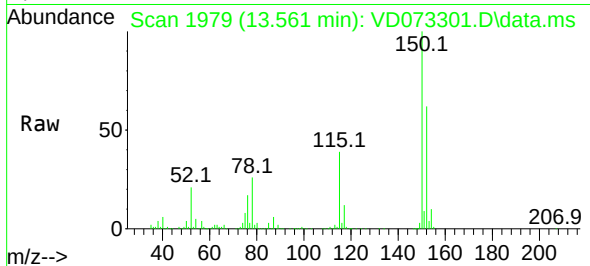




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.561 min Scan# 1979  
 Delta R.T. 0.000 min  
 Lab File: VD073301.D  
 Acq: 24 May 2022 00:59

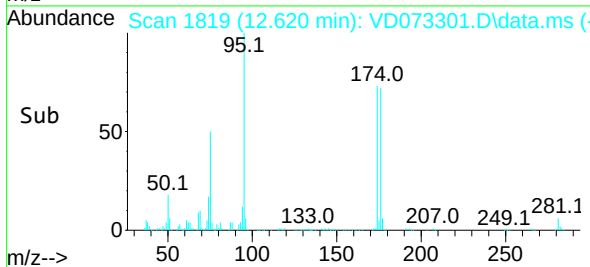
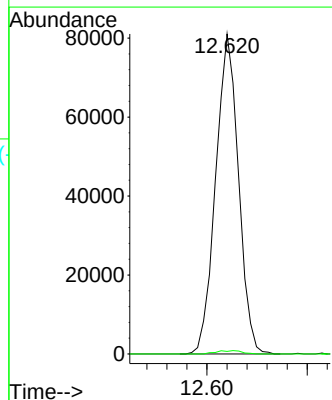
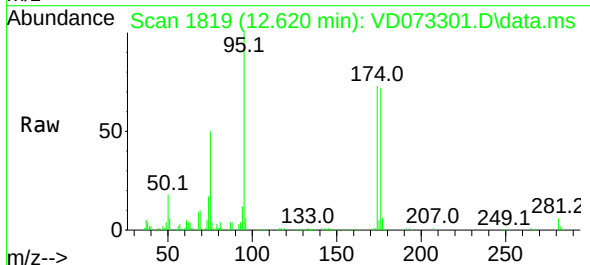
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 P037-SS001-2430-01

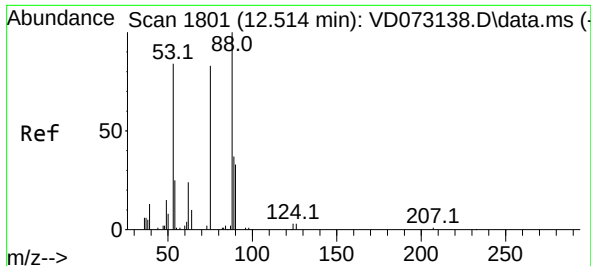
Tgt Ion:152 Resp: 265057  
 Ion Ratio Lower Upper  
 152 100  
 115 61.7 31.3 93.8  
 150 157.2 0.0 348.6



#76  
 1,2,3-Trichloropropane  
 Concen: 49.197 ug/l  
 RT: 12.620 min Scan# 1819  
 Delta R.T. -0.147 min  
 Lab File: VD073301.D  
 Acq: 24 May 2022 00:59

Tgt Ion: 75 Resp: 127945  
 Ion Ratio Lower Upper  
 75 100  
 77 1.1 0.0 0.0#

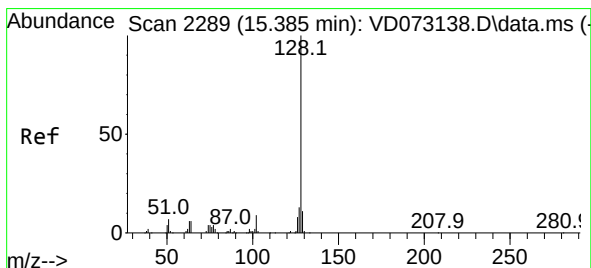
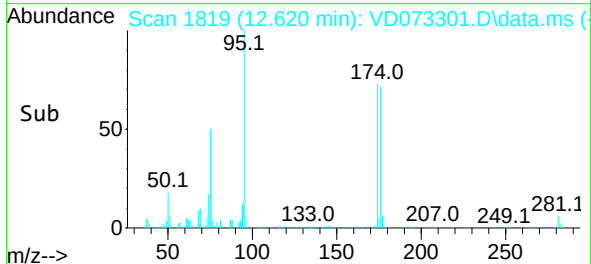
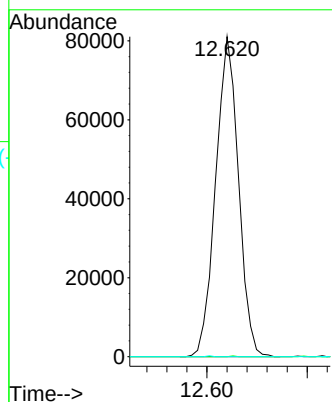
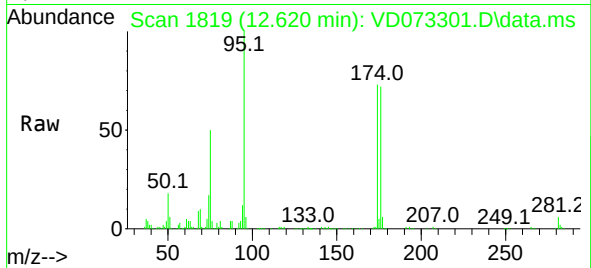




#81  
trans-1,4-Dichloro-2-butene  
Concen: 118.107 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. 0.106 min  
Lab File: VD073301.D  
Acq: 24 May 2022 00:59

Instrument :  
MSVOA\_D  
ClientSampleId :  
P037-SS001-2430-01

Tgt Ion: 75 Resp: 127945  
Ion Ratio Lower Upper  
75 100  
53 0.1 86.5 129.7#  
89 0.0 33.9 50.9#



#95  
Naphthalene  
Concen: 3.602 ug/l  
RT: 15.379 min Scan# 2288  
Delta R.T. -0.006 min  
Lab File: VD073301.D  
Acq: 24 May 2022 00:59

Tgt Ion: 128 Resp: 563  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.3 15.5#  
129 0.0 8.4 12.6#

