

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD042222\  
 Data File : VD072691.D  
 Acq On : 22 Apr 2022 13:49  
 Operator : VA/SY  
 Sample : N2525-01  
 Misc : 5.04G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 HR-01-042122

Quant Time: Apr 22 23:45:03 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D032922S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 30 02:44:36 2022  
 Response via : Initial Calibration

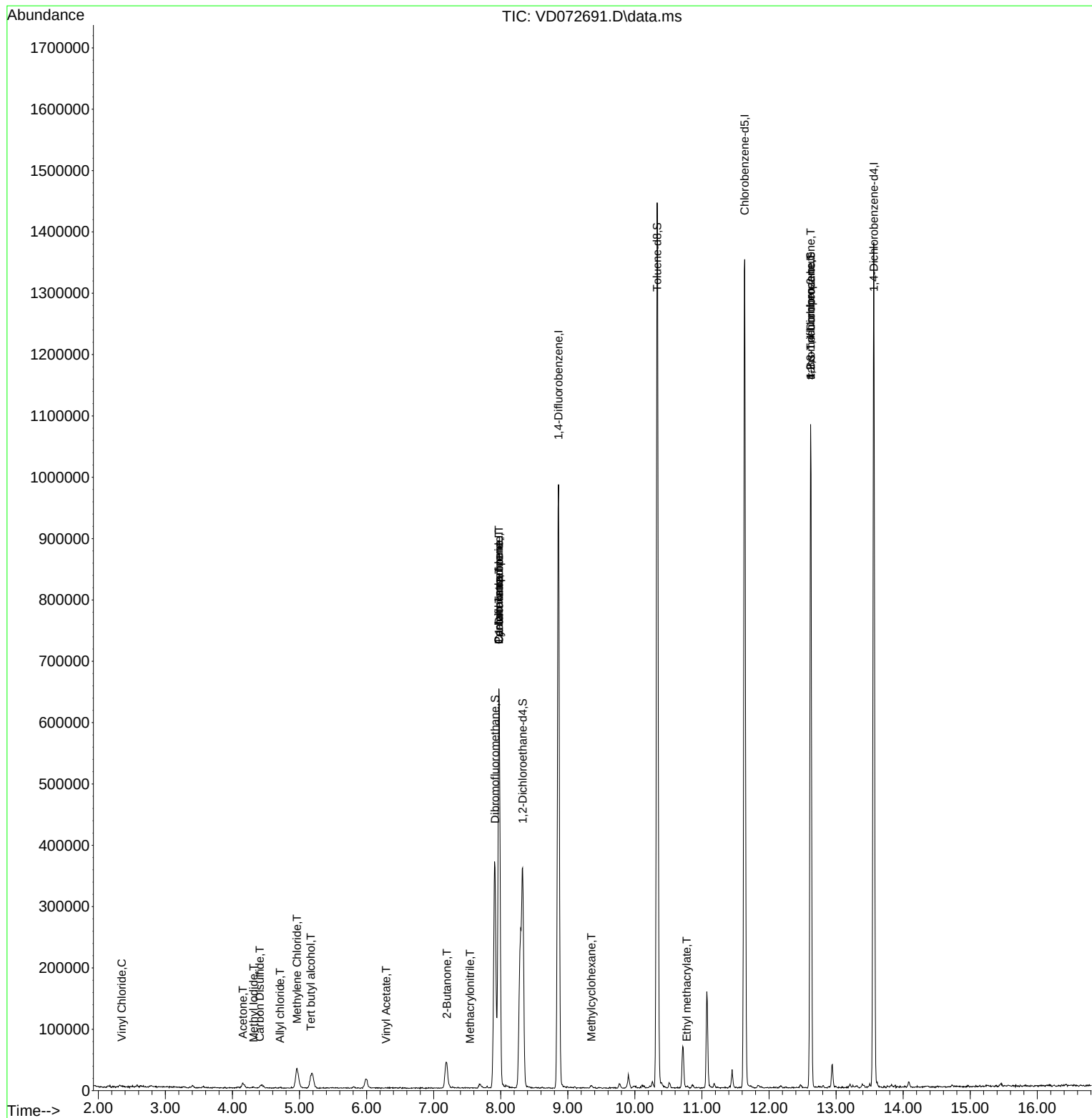
| Compound                      | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|--------|----------|
| -----                         |                |      |            |         |        |          |
| Internal Standards            |                |      |            |         |        |          |
| 1) Pentafluorobenzene         | 7.973          | 168  | 470714     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.861          | 114  | 849597     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.638         | 117  | 800216     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.561         | 152  | 358112     | 50.000  | ug/l   | 0.00     |
|                               |                |      |            |         |        |          |
| System Monitoring Compounds   |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.326          | 65   | 264165     | 46.392  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = | 92.780% |        |          |
| 35) Dibromofluoromethane      | 7.914          | 113  | 269702     | 40.848  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = | 81.700% |        |          |
| 50) Toluene-d8                | 10.332         | 98   | 998400     | 43.502  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 49 - 140 |      | Recovery = | 87.000% |        |          |
| 62) 4-Bromofluorobenzene      | 12.620         | 95   | 358291     | 39.973  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 25 - 144 |      | Recovery = | 79.940% |        |          |
|                               |                |      |            |         |        |          |
| Target Compounds              |                |      |            |         |        | Qvalue   |
| 4) Vinyl Chloride             | 2.350          | 62   | 416        | 1.053   | ug/l # | 43       |
| 10) Methyl Iodide             | 4.315          | 142  | 1986       | 4.096   | ug/l # | 62       |
| 11) Tert butyl alcohol        | 5.167          | 59   | 10502      | 34.925  | ug/l # | 76       |
| 14) Allyl chloride            | 4.709          | 41   | 329        | 1.170   | ug/l # | 52       |
| 16) Acetone                   | 4.156          | 43   | 13208      | 12.439  | ug/l # | 85       |
| 17) Carbon Disulfide          | 4.409          | 76   | 3041       | 3.934   | ug/l # | 87       |
| 20) Methylene Chloride        | 4.962          | 84   | 24528      | 3.880   | ug/l   | 86       |
| 23) Vinyl Acetate             | 6.291          | 43   | 161        | 6.306   | ug/l # | 75       |
| 25) 2-Butanone                | 7.197          | 43   | 3030       | 2.063   | ug/l # | 52       |
| 31) Cyclohexane               | 7.973          | 56   | 10186      | 1.368   | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 7.973          | 75   | 38294      | 5.561   | ug/l # | 51       |
| 38) Carbon Tetrachloride      | 7.973          | 117  | 51468      | 5.658   | ug/l # | 18       |
| 39) Methylcyclohexane         | 9.350          | 83   | 1868       | 3.056   | ug/l   | 92       |
| 41) Methacrylonitrile         | 7.544          | 41   | 55         | 1.684   | ug/l # | 27       |
| 56) Ethyl methacrylate        | 10.773         | 69   | 347        | 1.245   | ug/l # | 69       |
| 76) 1,2,3-Trichloropropane    | 12.620         | 75   | 175828     | 45.017  | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.620         | 75   | 175828     | 110.464 | ug/l # | 7        |
| -----                         |                |      |            |         |        |          |

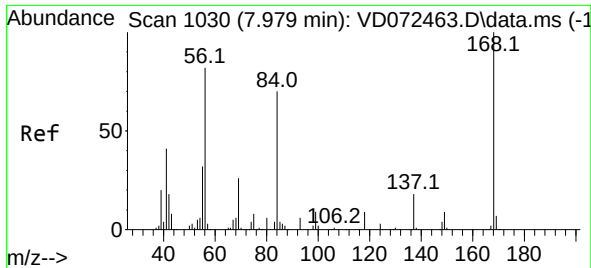
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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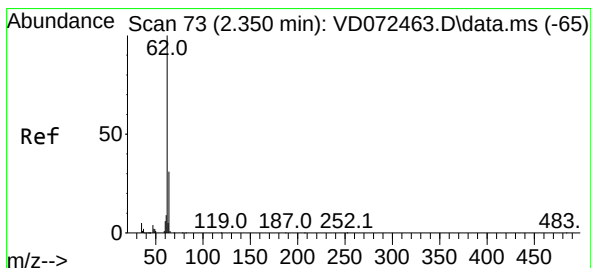
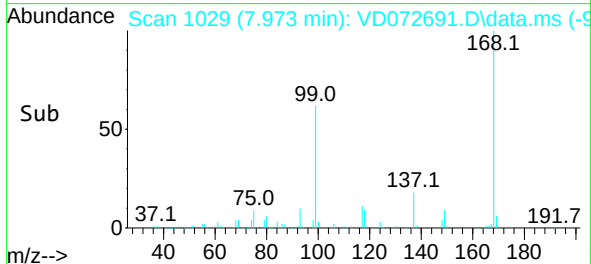
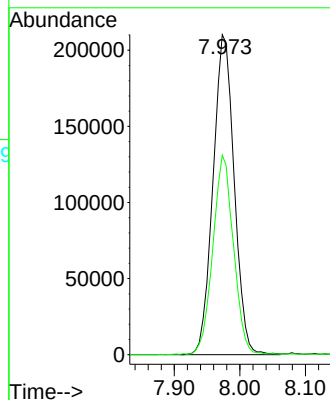
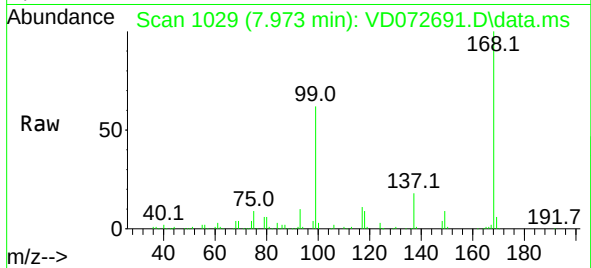




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.973 min Scan# 10  
Delta R.T. -0.006 min  
Lab File: VD072691.D  
Acq: 22 Apr 2022 13:49

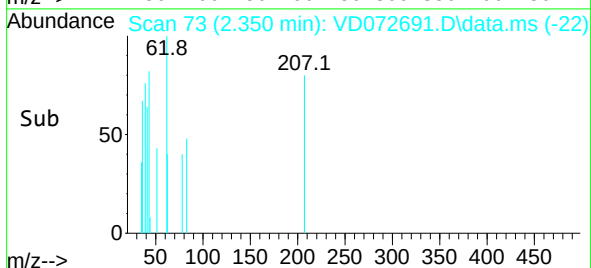
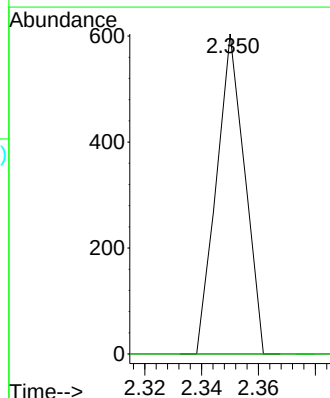
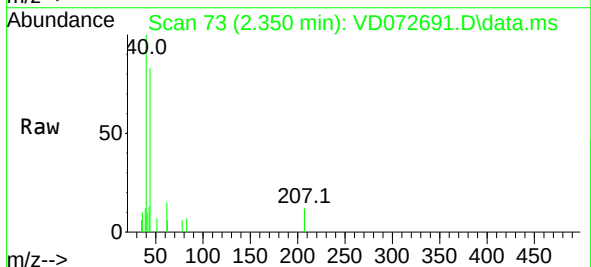
Instrument :  
MSVOA\_D  
ClientSampleId :  
HR-01-042122

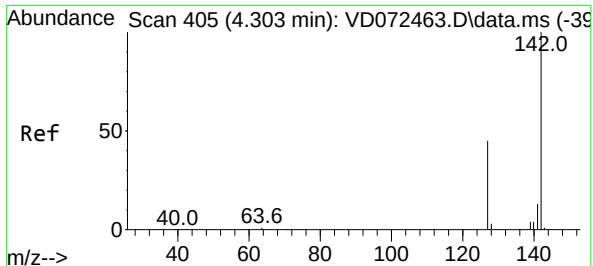
Tgt Ion:168 Resp: 470714  
Ion Ratio Lower Upper  
168 100  
99 62.3 49.8 74.6



#4  
Vinyl Chloride  
Concen: 1.053 ug/l  
RT: 2.350 min Scan# 73  
Delta R.T. -0.000 min  
Lab File: VD072691.D  
Acq: 22 Apr 2022 13:49

Tgt Ion: 62 Resp: 416  
Ion Ratio Lower Upper  
62 100  
64 0.0 25.4 38.0#

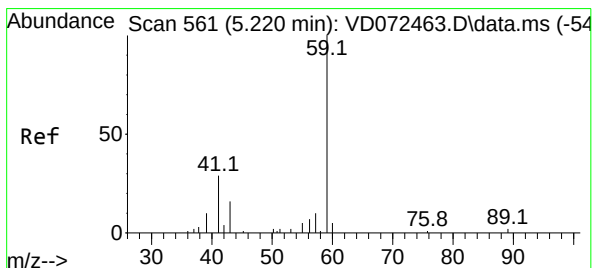
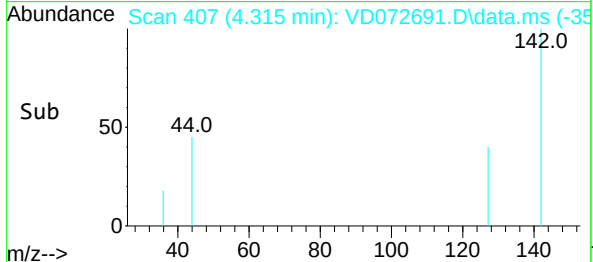
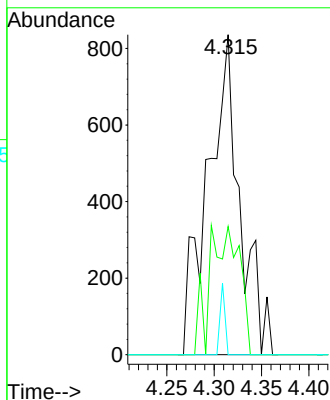
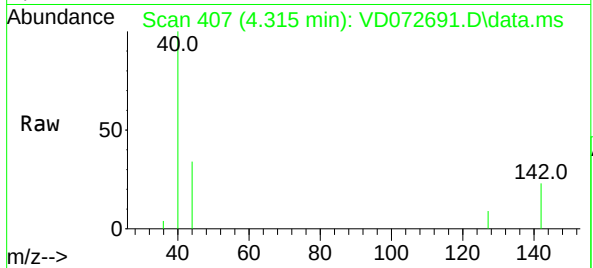




#10  
Methyl Iodide  
Concen: 4.096 ug/l  
RT: 4.315 min Scan# 40  
Delta R.T. 0.012 min  
Lab File: VD072691.D  
Acq: 22 Apr 2022 13:49

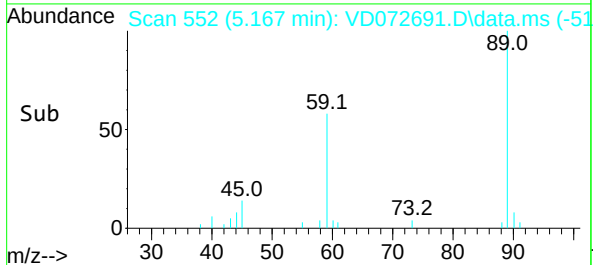
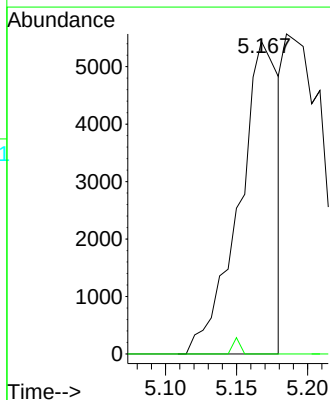
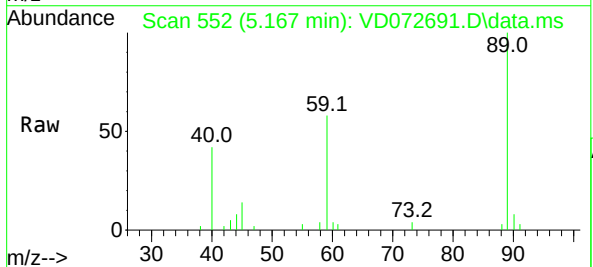
Instrument :  
MSVOA\_D  
ClientSampleId :  
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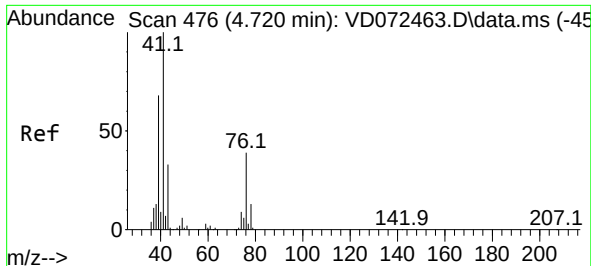
Tgt Ion:142 Resp: 1986  
Ion Ratio Lower Upper  
142 100  
127 18.8 37.3 55.9#  
141 3.3 11.7 17.5#



#11  
Tert butyl alcohol  
Concen: 34.925 ug/l  
RT: 5.167 min Scan# 552  
Delta R.T. -0.053 min  
Lab File: VD072691.D  
Acq: 22 Apr 2022 13:49

Tgt Ion: 59 Resp: 10502  
Ion Ratio Lower Upper  
59 100  
57 1.0 7.8 11.6#

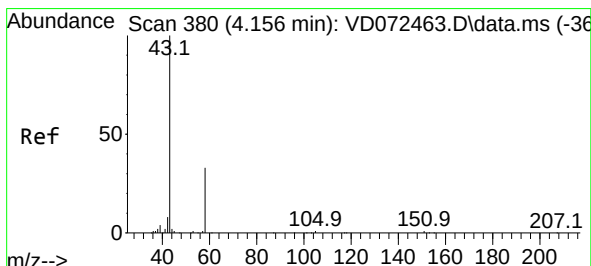
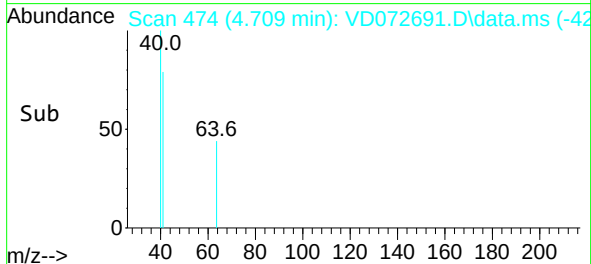
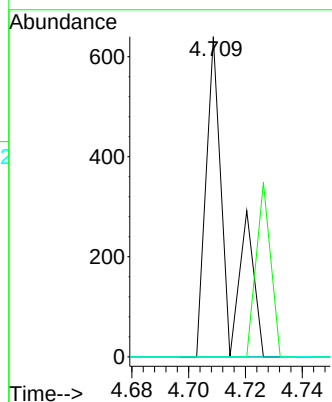
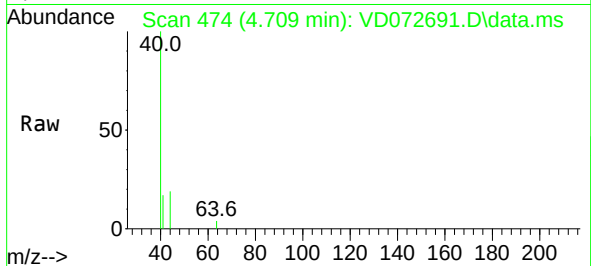




#14  
 Allyl chloride  
 Concen: 1.170 ug/l  
 RT: 4.709 min Scan# 41  
 Delta R.T. -0.011 min  
 Lab File: VD072691.D  
 Acq: 22 Apr 2022 13:49

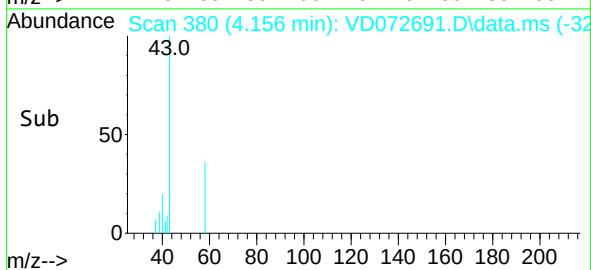
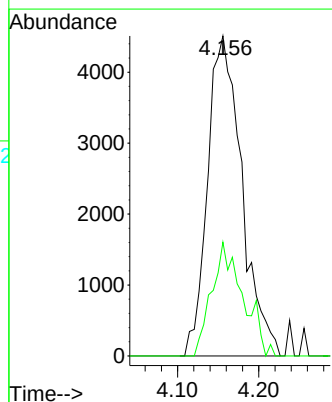
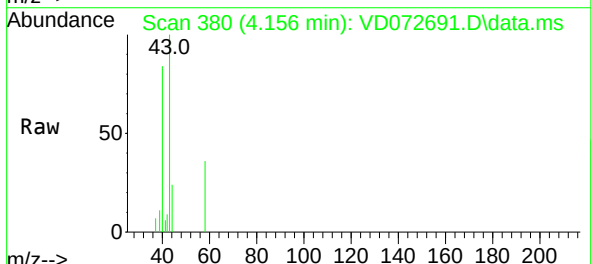
Instrument :  
 MSVOA\_D  
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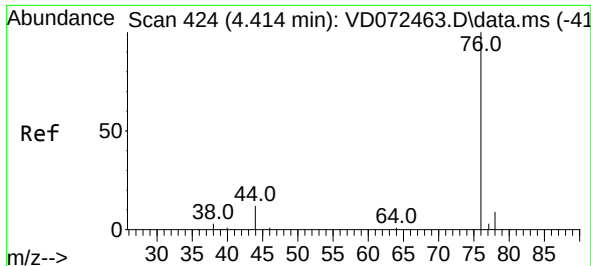
Tgt Ion: 41 Resp: 329  
 Ion Ratio Lower Upper  
 41 100  
 39 37.4 59.3 88.9#  
 76 0.0 25.7 38.5#



#16  
 Acetone  
 Concen: 12.439 ug/l  
 RT: 4.156 min Scan# 380  
 Delta R.T. 0.000 min  
 Lab File: VD072691.D  
 Acq: 22 Apr 2022 13:49

Tgt Ion: 43 Resp: 13208  
 Ion Ratio Lower Upper  
 43 100  
 58 35.6 22.1 33.1#

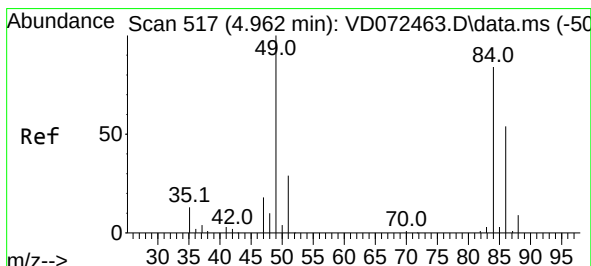
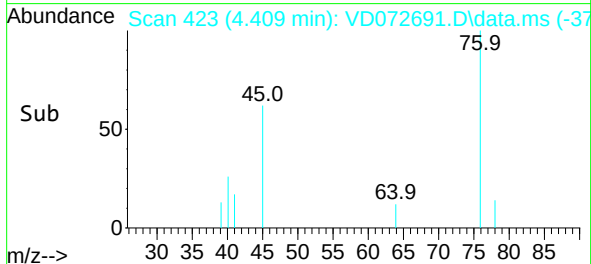
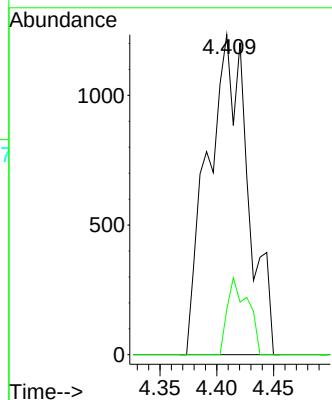
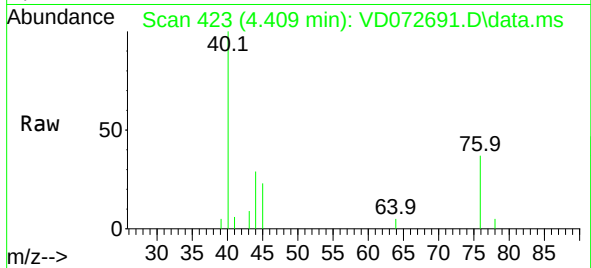




#17  
Carbon Disulfide  
Concen: 3.934 ug/l  
RT: 4.409 min Scan# 41  
Delta R.T. -0.005 min  
Lab File: VD072691.D  
Acq: 22 Apr 2022 13:49

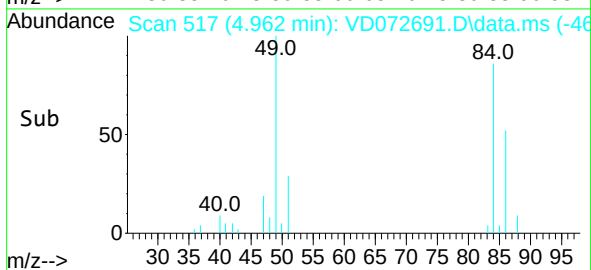
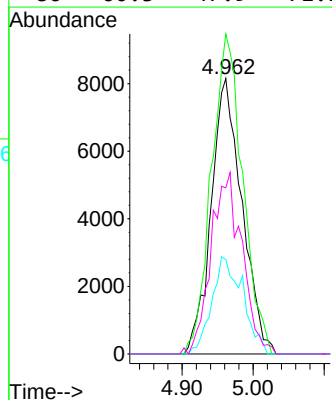
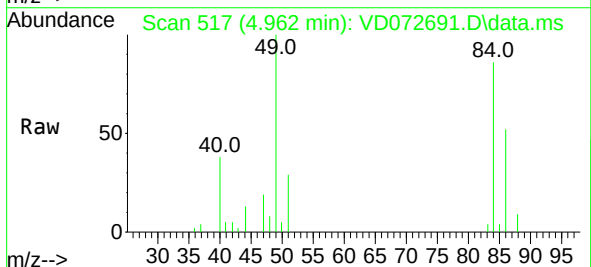
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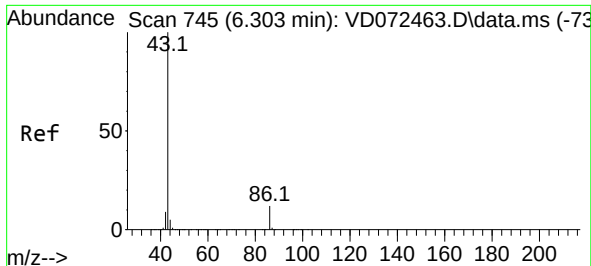
Tgt Ion: 76 Resp: 3041  
Ion Ratio Lower Upper  
76 100  
78 14.1 7.5 11.3#



#20  
Methylene Chloride  
Concen: 3.880 ug/l  
RT: 4.962 min Scan# 517  
Delta R.T. 0.000 min  
Lab File: VD072691.D  
Acq: 22 Apr 2022 13:49

Tgt Ion: 84 Resp: 24528  
Ion Ratio Lower Upper  
84 100  
49 116.2 112.8 169.2  
51 34.3 32.6 48.8  
86 60.3 47.9 71.9

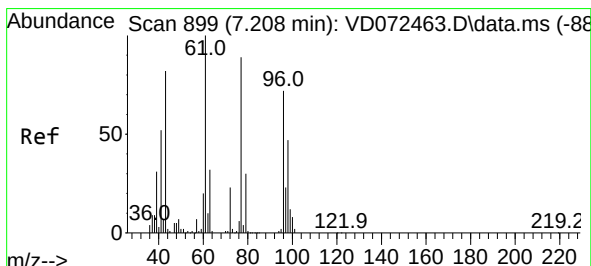
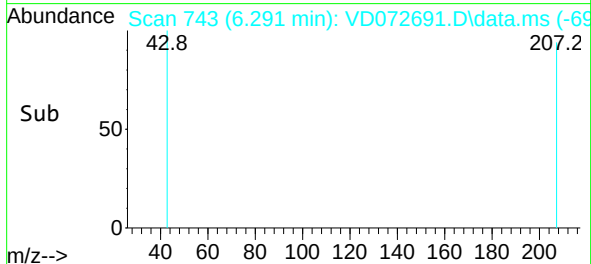
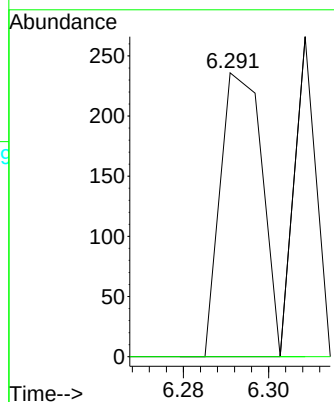
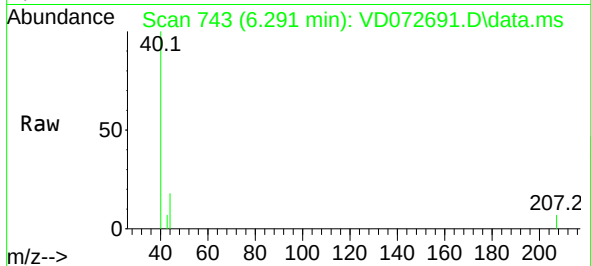




#23  
 Vinyl Acetate  
 Concen: 6.306 ug/l  
 RT: 6.291 min Scan# 745  
 Delta R.T. -0.012 min  
 Lab File: VD072691.D  
 Acq: 22 Apr 2022 13:49

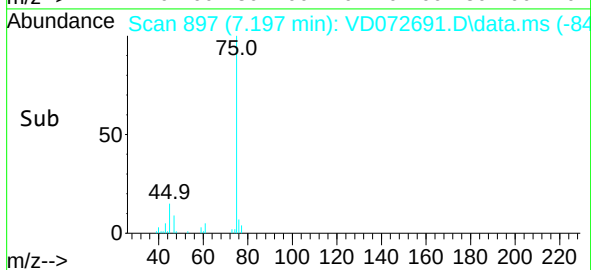
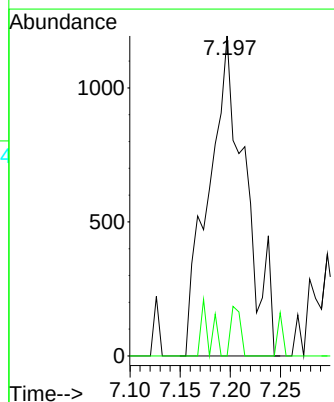
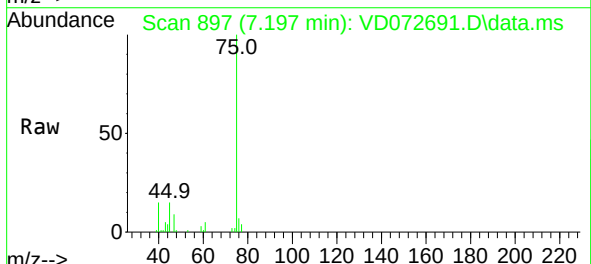
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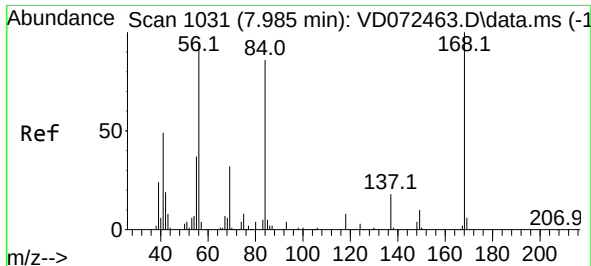
Tgt Ion: 43 Resp: 161  
 Ion Ratio Lower Upper  
 43 100  
 86 0.0 7.1 10.7#



#25  
 2-Butanone  
 Concen: 2.063 ug/l  
 RT: 7.197 min Scan# 897  
 Delta R.T. -0.012 min  
 Lab File: VD072691.D  
 Acq: 22 Apr 2022 13:49

Tgt Ion: 43 Resp: 3030  
 Ion Ratio Lower Upper  
 43 100  
 72 0.0 18.6 27.8#

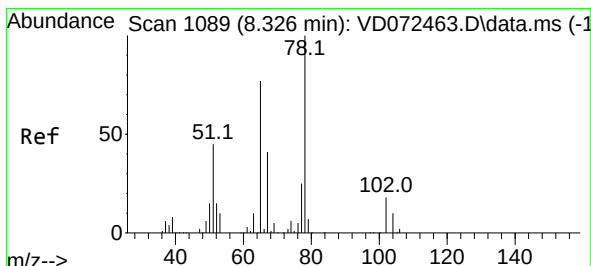
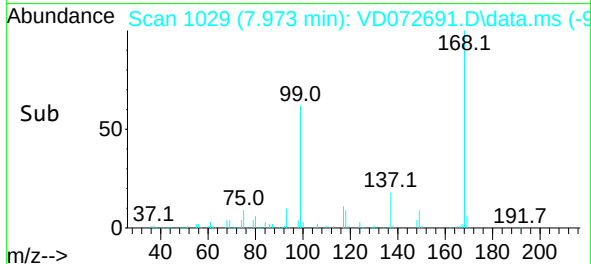
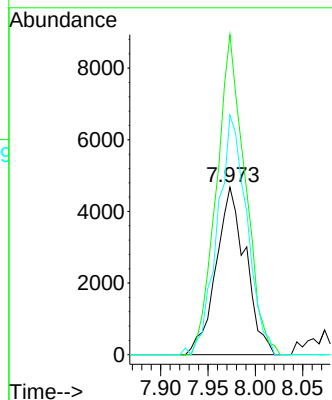
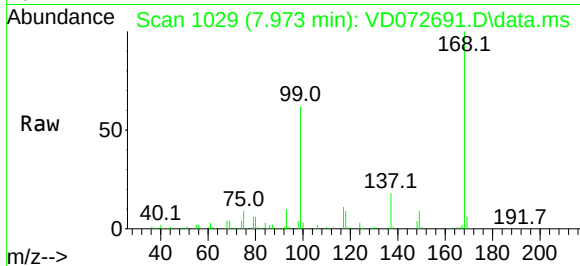




#31  
Cyclohexane  
Concen: 1.368 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. -0.012 min  
Lab File: VD072691.D  
Acq: 22 Apr 2022 13:49

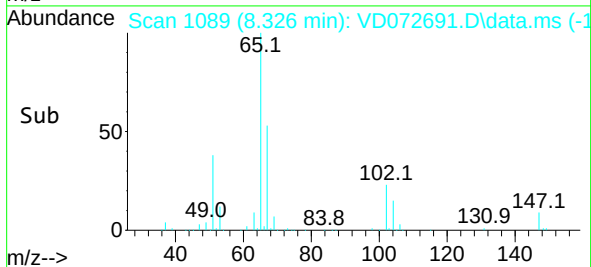
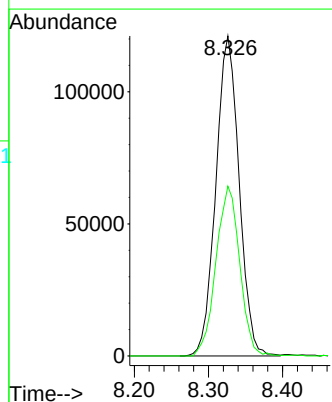
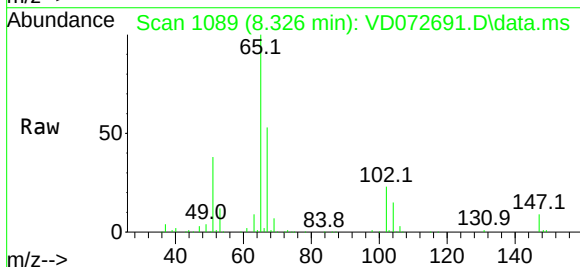
Instrument :  
MSVOA\_D  
ClientSampleId :  
HR-01-042122

Tgt Ion: 56 Resp: 10186  
Ion Ratio Lower Upper  
56 100  
69 191.1 25.4 38.2#  
84 143.0 63.0 94.4#

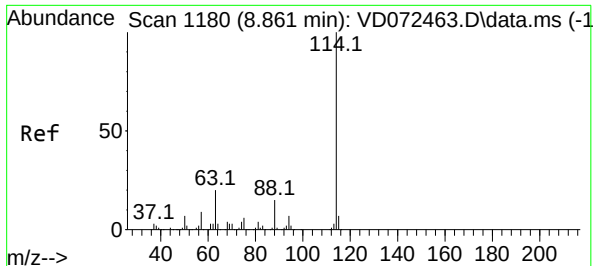


#33  
1,2-Dichloroethane-d4  
Concen: 46.392 ug/l  
RT: 8.326 min Scan# 1089  
Delta R.T. 0.000 min  
Lab File: VD072691.D  
Acq: 22 Apr 2022 13:49

Tgt Ion: 65 Resp: 264165  
Ion Ratio Lower Upper  
65 100  
67 54.0 0.0 101.4







#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.861 min Scan# 1180

Delta R.T. 0.000 min

Lab File: VD072691.D

Acq: 22 Apr 2022 13:49

Instrument :

MSVOA\_D

ClientSampleId :

HR-01-042122

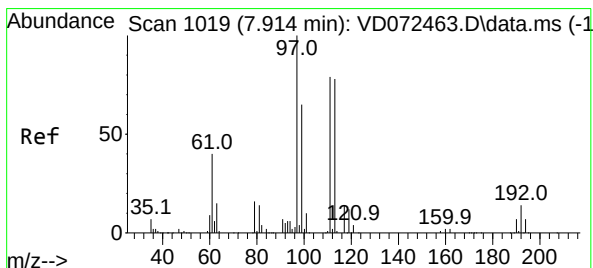
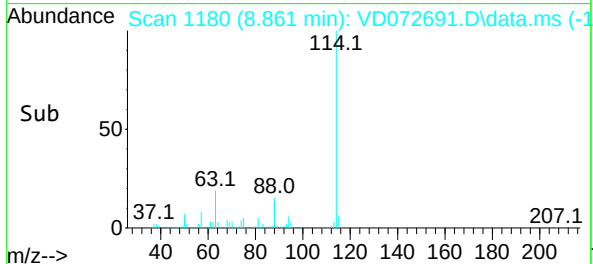
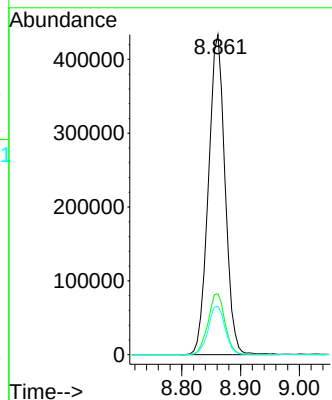
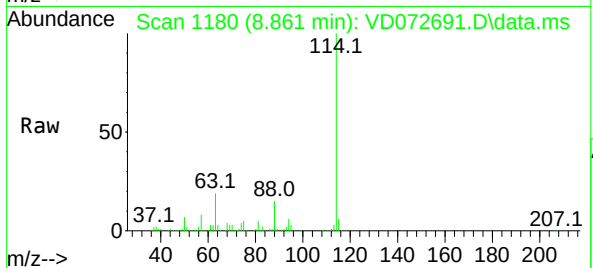
Tgt Ion:114 Resp: 849597

Ion Ratio Lower Upper

114 100

63 19.1 0.0 46.6

88 15.0 0.0 33.2



#35

Dibromofluoromethane

Concen: 40.848 ug/l

RT: 7.914 min Scan# 1019

Delta R.T. 0.000 min

Lab File: VD072691.D

Acq: 22 Apr 2022 13:49

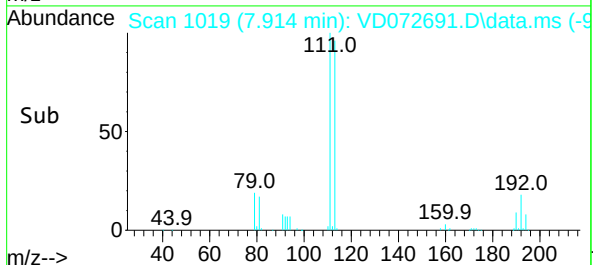
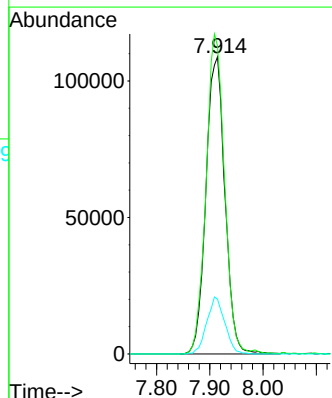
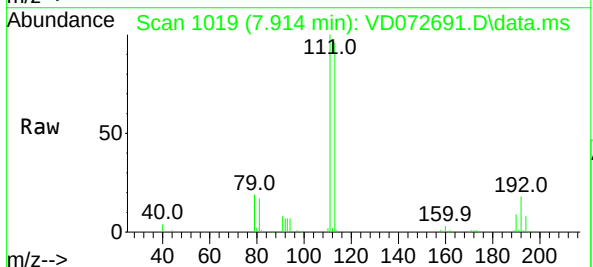
Tgt Ion:113 Resp: 269702

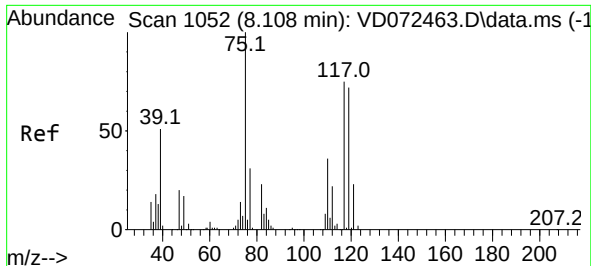
Ion Ratio Lower Upper

113 100

111 104.2 83.8 125.6

192 18.2 14.6 21.8





#36

1,1-Dichloropropene

Concen: 5.561 ug/l

RT: 7.973 min Scan# 1029

Delta R.T. -0.135 min

Lab File: VD072691.D

Acq: 22 Apr 2022 13:49

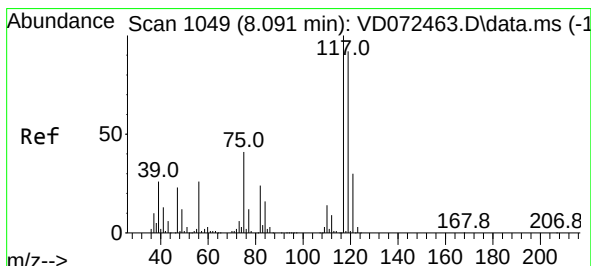
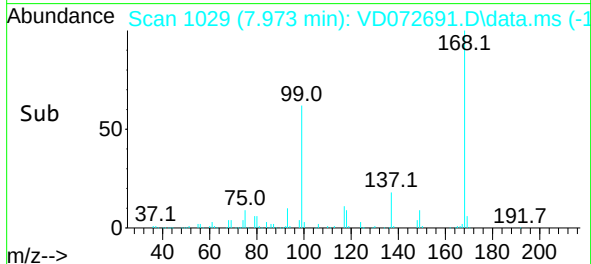
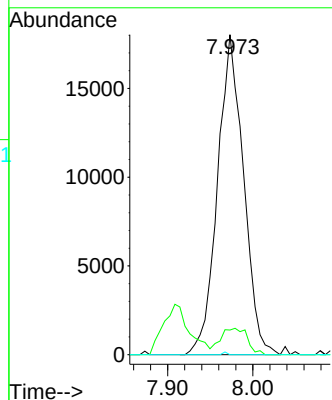
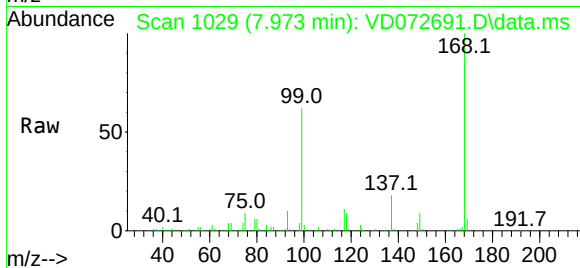
Instrument :

MSVOA\_D

ClientSampleId :

HR-01-042122

|             |                |
|-------------|----------------|
| Tgt Ion: 75 | Resp: 38294    |
| Ion Ratio   | Lower Upper    |
| 75          | 100            |
| 110         | 8.6 16.4 49.1# |
| 77          | 0.1 24.2 36.2# |



#38

Carbon Tetrachloride

Concen: 5.658 ug/l

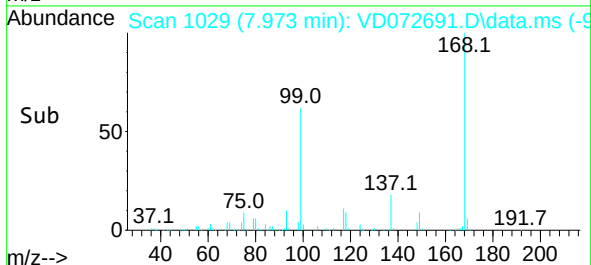
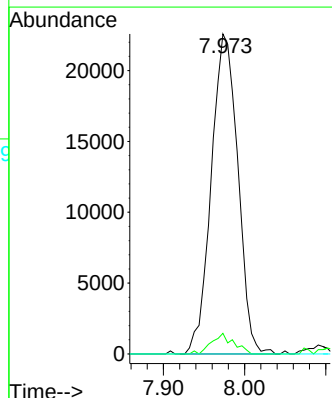
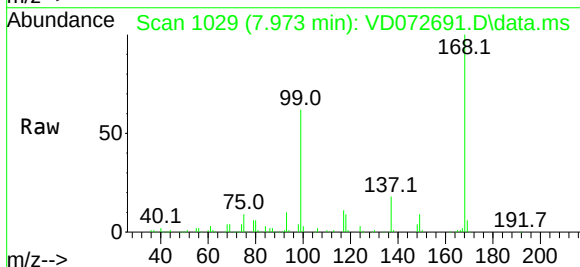
RT: 7.973 min Scan# 1029

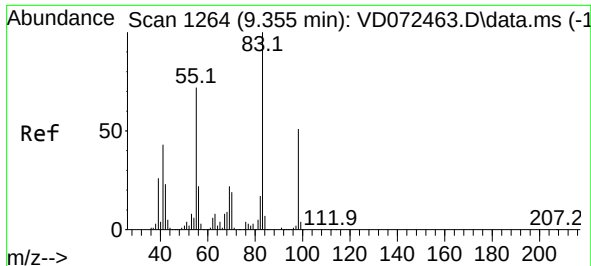
Delta R.T. -0.118 min

Lab File: VD072691.D

Acq: 22 Apr 2022 13:49

|              |                 |
|--------------|-----------------|
| Tgt Ion: 117 | Resp: 51468     |
| Ion Ratio    | Lower Upper     |
| 117          | 100             |
| 119          | 6.4 75.8 113.6# |
| 121          | 0.0 24.5 36.7#  |





#39

Methylcyclohexane

Concen: 3.056 ug/l

RT: 9.350 min Scan# 11

Delta R.T. -0.005 min

Lab File: VD072691.D

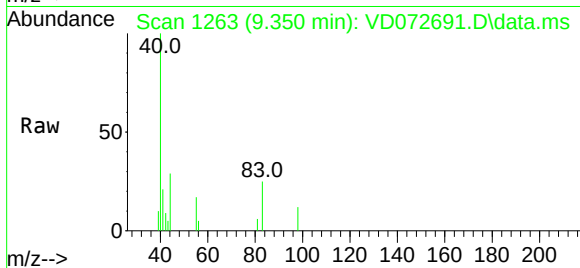
Acq: 22 Apr 2022 13:49

Instrument :

MSVOA\_D

ClientSampleId :

HR-01-042122



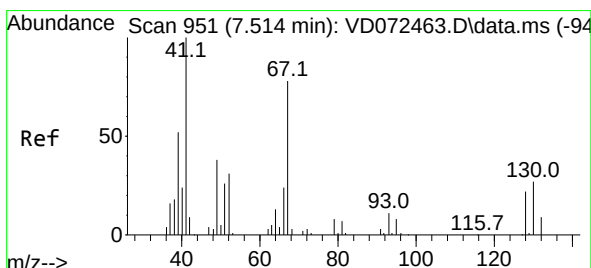
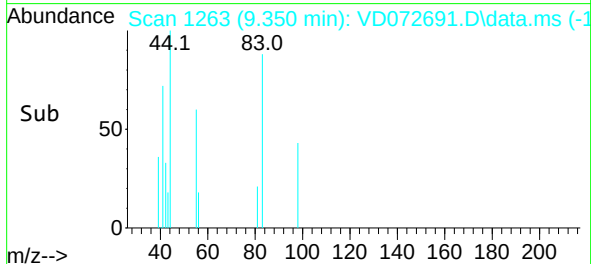
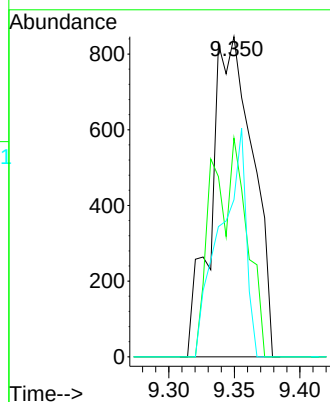
Tgt Ion: 83 Resp: 1868

Ion Ratio Lower Upper

83 100

55 68.3 63.2 94.8

98 49.1 38.2 57.4



#41

Methacrylonitrile

Concen: 1.684 ug/l

RT: 7.544 min Scan# 956

Delta R.T. 0.030 min

Lab File: VD072691.D

Acq: 22 Apr 2022 13:49

Tgt Ion: 41 Resp: 55

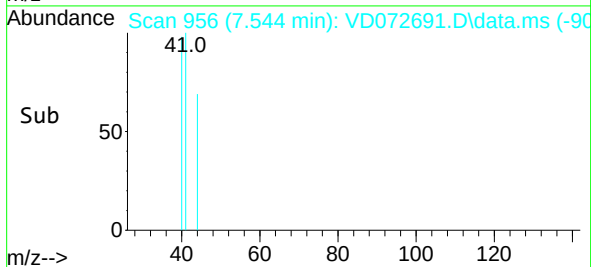
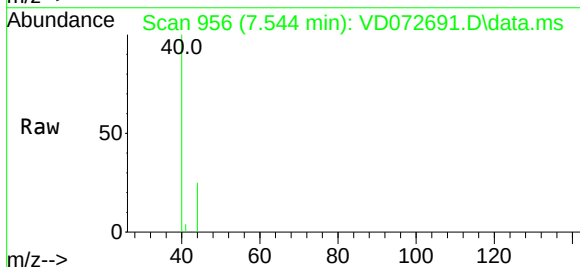
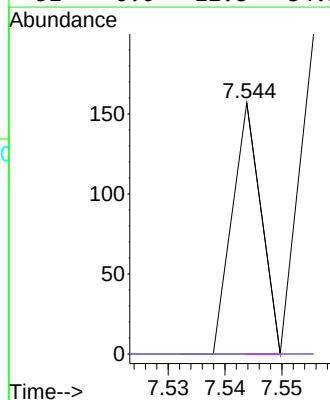
Ion Ratio Lower Upper

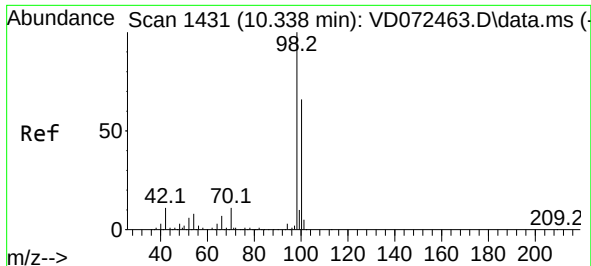
41 100

39 0.0 44.6 67.0#

67 0.0 48.2 72.4#

52 0.0 22.8 34.2#

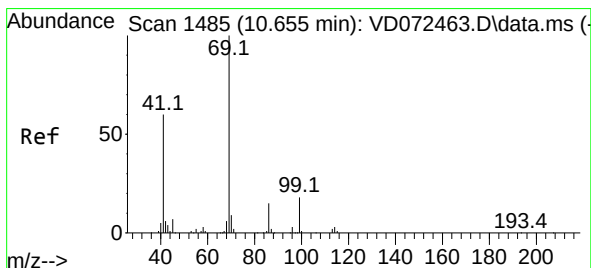
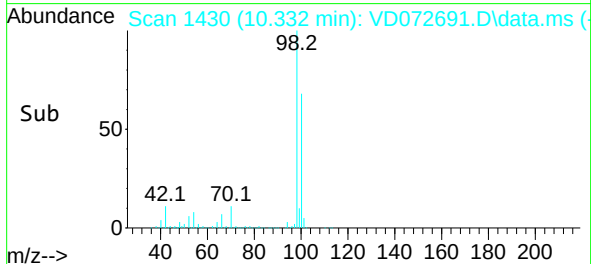
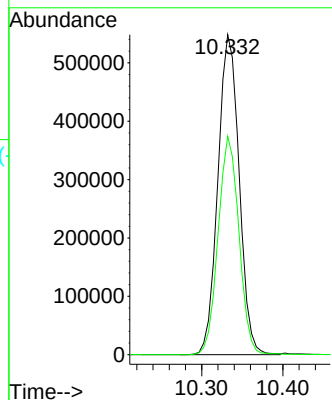
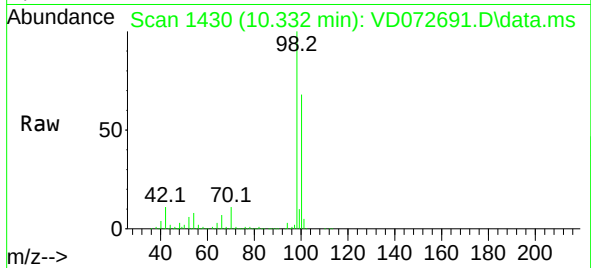




#50  
Toluene-d8  
Concen: 43.502 ug/l  
RT: 10.332 min Scan# 14  
Delta R.T. -0.006 min  
Lab File: VD072691.D  
Acq: 22 Apr 2022 13:49

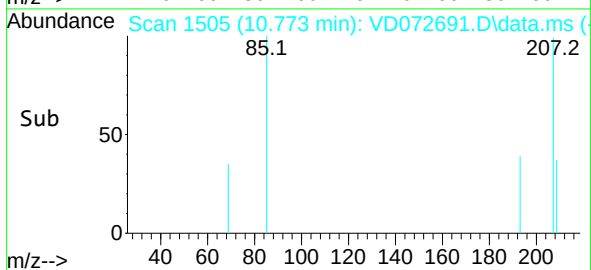
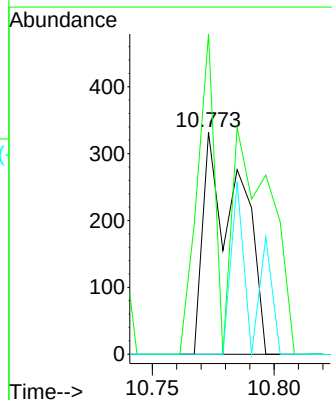
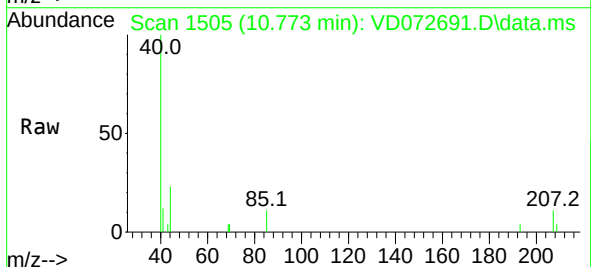
Instrument :  
MSVOA\_D  
ClientSampleId :  
HR-01-042122

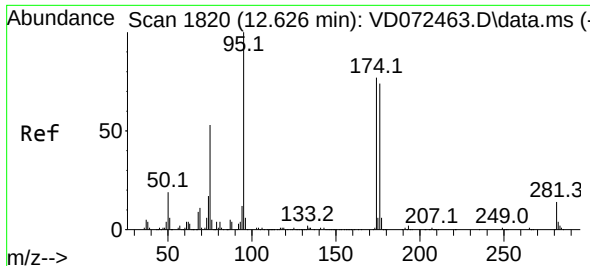
Tgt Ion: 98 Resp: 998400  
Ion Ratio Lower Upper  
98 100  
100 66.9 52.4 78.6



#56  
Ethyl methacrylate  
Concen: 1.245 ug/l  
RT: 10.773 min Scan# 1505  
Delta R.T. 0.118 min  
Lab File: VD072691.D  
Acq: 22 Apr 2022 13:49

Tgt Ion: 69 Resp: 347  
Ion Ratio Lower Upper  
69 100  
41 68.6 63.0 94.6  
39 0.0 33.8 50.8#

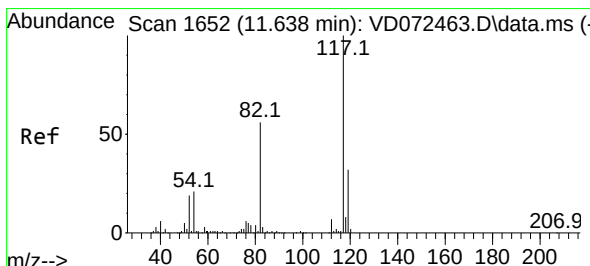
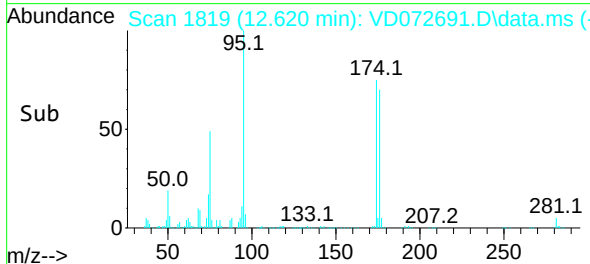
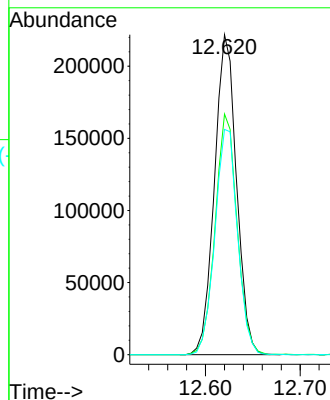
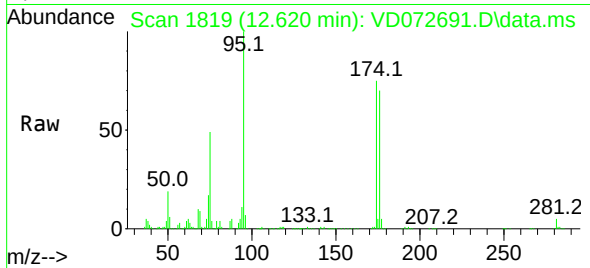




#62  
4-Bromofluorobenzene  
Concen: 39.973 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. -0.006 min  
Lab File: VD072691.D  
Acq: 22 Apr 2022 13:49

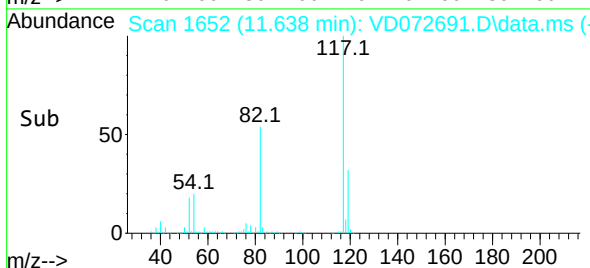
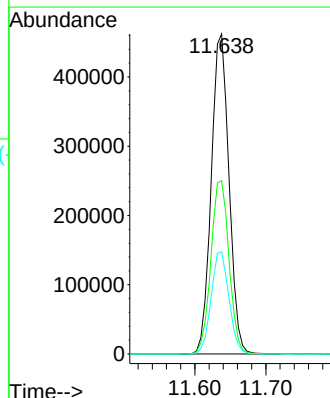
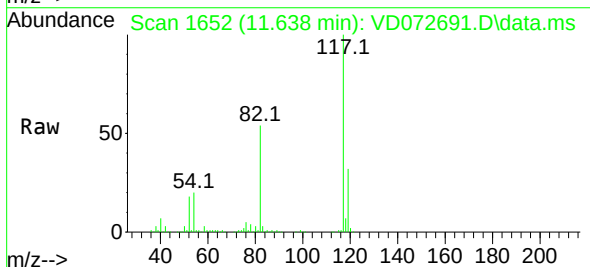
Instrument :  
MSVOA\_D  
ClientSampleId :  
HR-01-042122

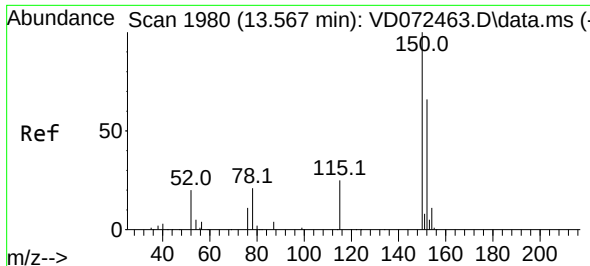
Tgt Ion: 95 Resp: 358291  
Ion Ratio Lower Upper  
95 100  
174 75.2 0.0 152.8  
176 72.2 0.0 145.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.638 min Scan# 1652  
Delta R.T. 0.000 min  
Lab File: VD072691.D  
Acq: 22 Apr 2022 13:49

Tgt Ion: 117 Resp: 800216  
Ion Ratio Lower Upper  
117 100  
82 54.1 45.3 67.9  
119 31.9 26.6 40.0

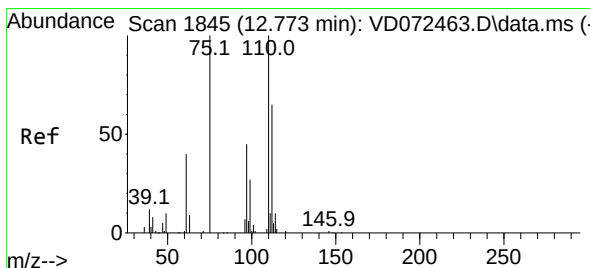
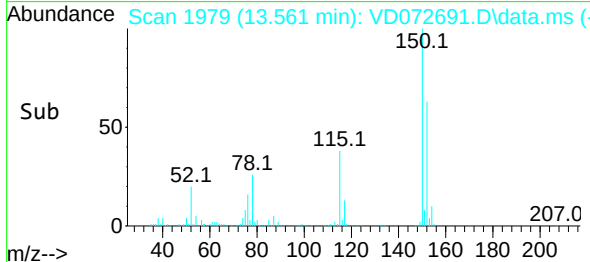
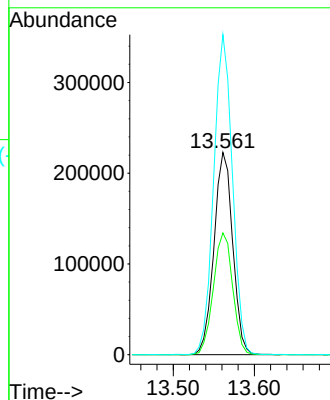
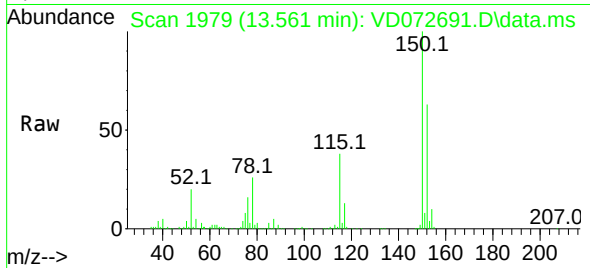




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.561 min Scan# 1819  
 Delta R.T. -0.006 min  
 Lab File: VD072691.D  
 Acq: 22 Apr 2022 13:49

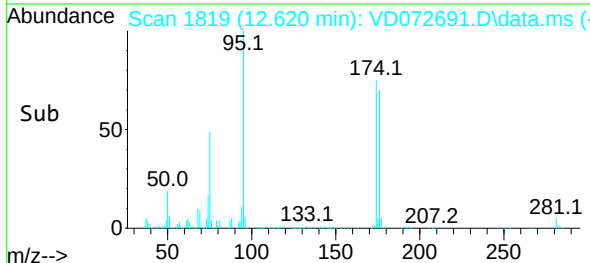
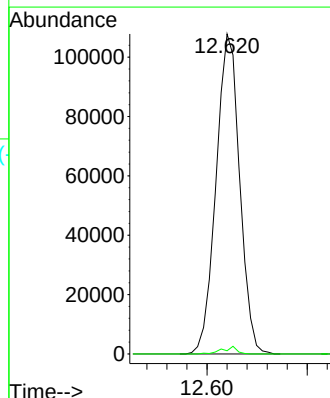
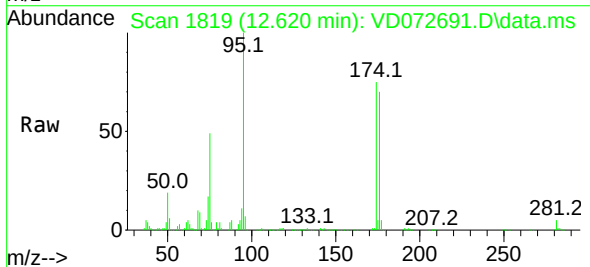
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 HR-01-042122

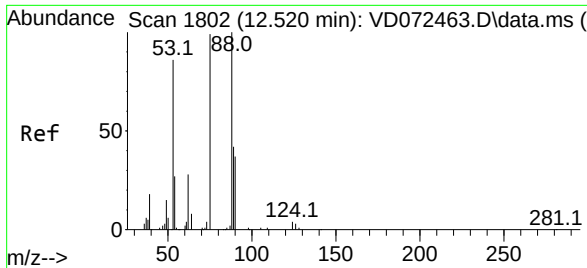
Tgt Ion:152 Resp: 358112  
 Ion Ratio Lower Upper  
 152 100  
 115 61.9 31.3 93.8  
 150 157.8 0.0 348.6



#76  
 1,2,3-Trichloropropane  
 Concen: 45.017 ug/l  
 RT: 12.620 min Scan# 1819  
 Delta R.T. -0.153 min  
 Lab File: VD072691.D  
 Acq: 22 Apr 2022 13:49

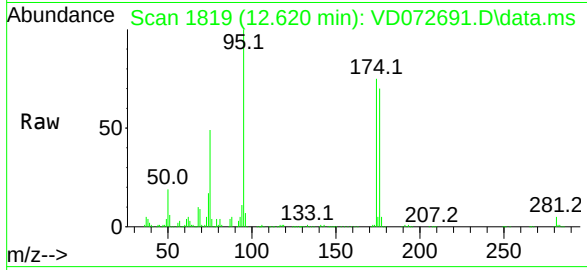
Tgt Ion: 75 Resp: 175828  
 Ion Ratio Lower Upper  
 75 100  
 77 1.5 0.0 0.0#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 110.464 ug/l  
 RT: 12.620 min Scan# 11  
 Delta R.T. 0.100 min  
 Lab File: VD072691.D  
 Acq: 22 Apr 2022 13:49

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 HR-01-042122



Tgt Ion: 75 Resp: 175828  
 Ion Ratio Lower Upper  
 75 100  
 53 0.1 86.5 129.7#  
 89 0.2 33.9 50.9#

