

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN102721\  
 Data File : VN069204.D  
 Acq On : 26 Oct 2021 23:53  
 Operator : JC/MD  
 Sample : M4337-16  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 31 Sample Multiplier: 1

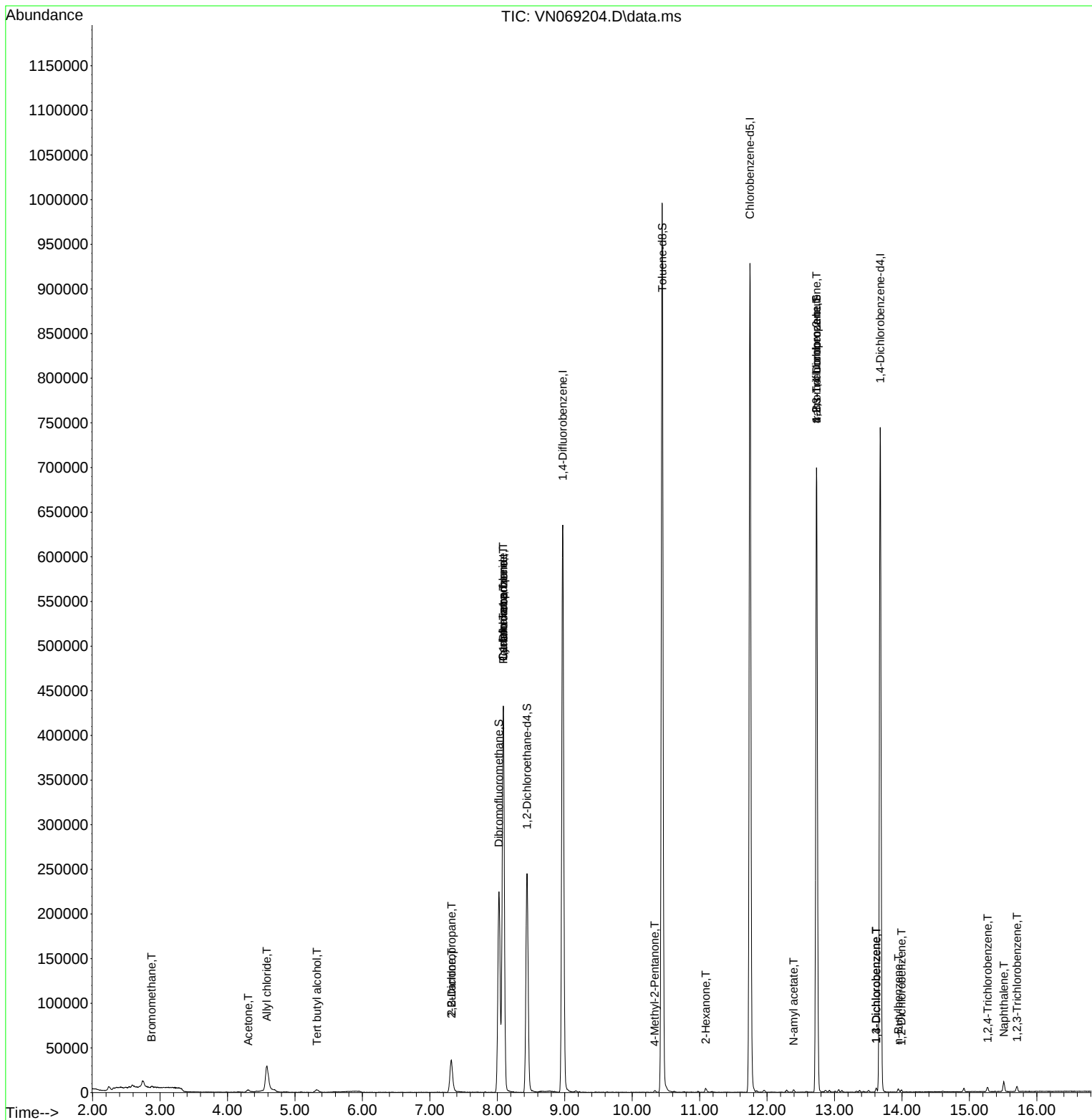
Instrument :  
 MSVOA\_N  
 ClientSampleId :

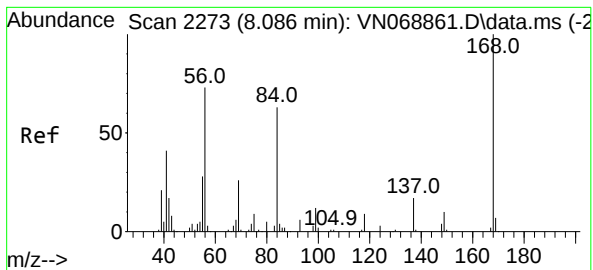
Quant Time: Oct 27 09:25:22 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N101221W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 13 05:44:40 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon           | Response | Conc   | Units    | Dev(Min) |
|-------------------------------|--------|----------------|----------|--------|----------|----------|
| -----                         |        |                |          |        |          |          |
| Internal Standards            |        |                |          |        |          |          |
| 1) Pentafluorobenzene         | 8.091  | 168            | 327046   | 50.000 | ug/l     | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.971  | 114            | 559884   | 50.000 | ug/l     | 0.00     |
| 63) Chlorobenzene-d5          | 11.747 | 117            | 542984   | 50.000 | ug/l     | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.678 | 152            | 196420   | 50.000 | ug/l     | 0.00     |
| System Monitoring Compounds   |        |                |          |        |          |          |
| 33) 1,2-Dichloroethane-d4     | 8.440  | 65             | 213253   | 49.456 | ug/l     | 0.00     |
| Spiked Amount                 | 50.000 | Range 61 - 141 | Recovery | =      | 98.920%  |          |
| 35) Dibromofluoromethane      | 8.024  | 113            | 167449   | 51.405 | ug/l     | 0.00     |
| Spiked Amount                 | 50.000 | Range 69 - 133 | Recovery | =      | 102.800% |          |
| 50) Toluene-d8                | 10.446 | 98             | 704560   | 54.057 | ug/l     | 0.00     |
| Spiked Amount                 | 50.000 | Range 65 - 126 | Recovery | =      | 108.120% |          |
| 62) 4-Bromofluorobenzene      | 12.734 | 95             | 252061   | 51.259 | ug/l     | 0.00     |
| Spiked Amount                 | 50.000 | Range 58 - 135 | Recovery | =      | 102.520% |          |
| Target Compounds              |        |                |          |        |          |          |
|                               |        |                |          |        | Qvalue   |          |
| 5) Bromomethane               | 2.875  | 94             | 694      | 0.311  | ug/l     | 97       |
| 11) Tert butyl alcohol        | 5.326  | 59             | 345      | 0.438  | ug/l #   | 72       |
| 14) Allyl chloride            | 4.583  | 41             | 3707     | 0.654  | ug/l #   | 55       |
| 16) Acetone                   | 4.307  | 43             | 5087     | 3.161  | ug/l     | 94       |
| 25) 2-Butanone                | 7.324  | 43             | 1544     | 0.635  | ug/l #   | 48       |
| 26) 2,2-Dichloropropane       | 7.321  | 77             | 2554     | 0.419  | ug/l #   | 53       |
| 31) Cyclohexane               | 8.088  | 56             | 7705     | 1.149  | ug/l #   | 17       |
| 36) 1,1-Dichloropropene       | 8.088  | 75             | 27140    | 5.675  | ug/l #   | 50       |
| 38) Carbon Tetrachloride      | 8.088  | 117            | 33913    | 6.457  | ug/l #   | 15       |
| 51) 4-Methyl-2-Pentanone      | 10.333 | 43             | 1619     | 0.320  | ug/l     | 94       |
| 59) 2-Hexanone                | 11.090 | 43             | 3441     | 0.950  | ug/l     | 100      |
| 74) N-amyl acetate            | 12.393 | 43             | 1717     | 0.277  | ug/l #   | 61       |
| 76) 1,2,3-Trichloropropane    | 12.734 | 75             | 133028   | 31.831 | ug/l #   | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.734 | 75             | 133028   | 76.153 | ug/l #   | 12       |
| 87) 1,3-Dichlorobenzene       | 13.619 | 146            | 1356     | 0.217  | ug/l     | 98       |
| 88) 1,4-Dichlorobenzene       | 13.619 | 146            | 1356     | 0.218  | ug/l     | 98       |
| 89) n-Butylbenzene            | 13.946 | 91             | 2829     | 0.258  | ug/l     | 91       |
| 91) 1,2-Dichlorobenzene       | 13.994 | 146            | 1401     | 0.231  | ug/l     | 93       |
| 93) 1,2,4-Trichlorobenzene    | 15.271 | 180            | 1950     | 3.162  | ug/l     | 87       |
| 95) Naphthalene               | 15.509 | 128            | 10797    | 4.906  | ug/l     | 98       |
| 96) 1,2,3-Trichlorobenzene    | 15.705 | 180            | 2562     | 3.289  | ug/l     | 97       |
| -----                         |        |                |          |        |          |          |

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

Quant Time: Oct 27 09:25:22 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N101221W.M  
Quant Title : SW846 8260  
QLast Update : Wed Oct 13 05:44:40 2021  
Response via : Initial Calibration

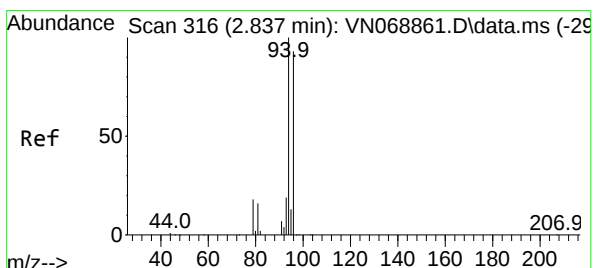
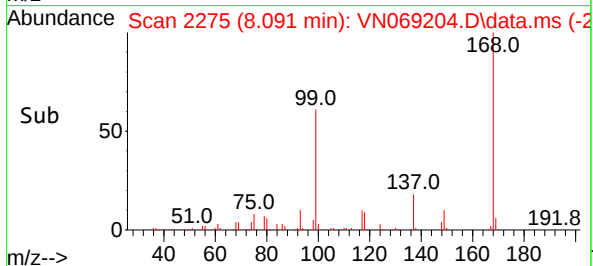
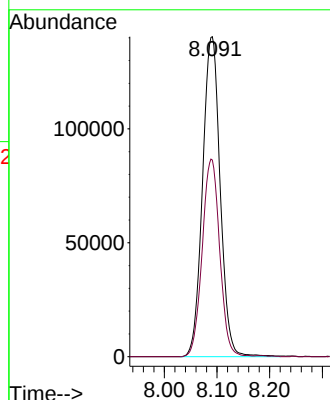
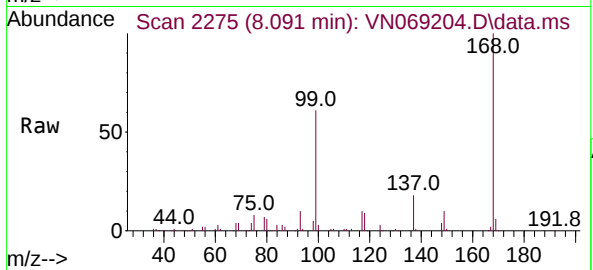




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.091 min Scan# 2275  
Delta R.T. 0.005 min  
Lab File: VN069204.D  
Acq: 26 Oct 2021 23:53

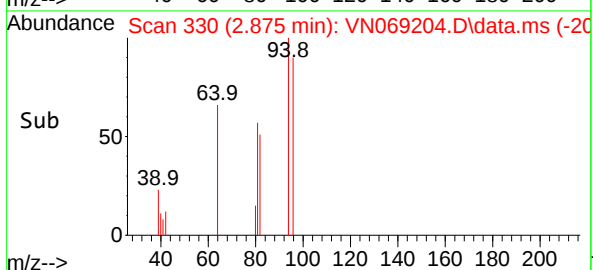
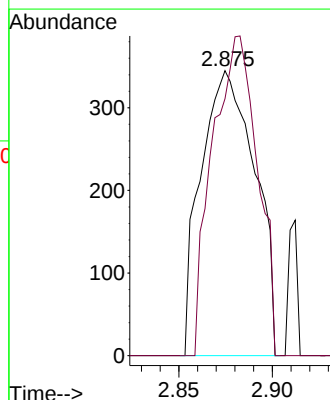
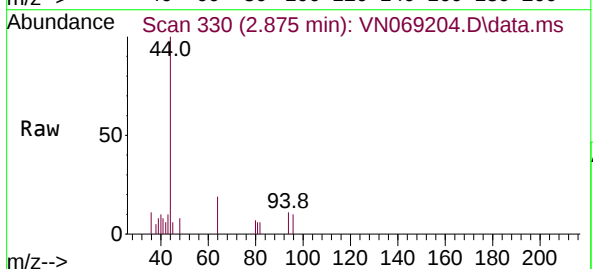
Instrument :  
MSVOA\_N  
ClientSampled :

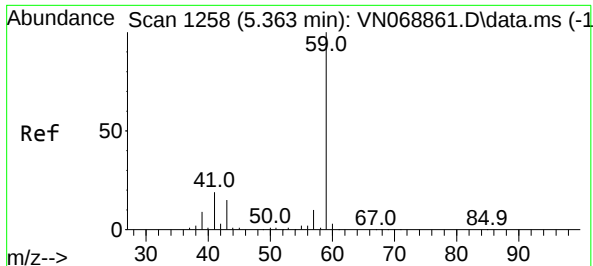
Tgt Ion:168 Resp: 327046  
Ion Ratio Lower Upper  
168 100  
99 61.4 48.9 73.3



#5  
Bromomethane  
Concen: 0.311 ug/l  
RT: 2.875 min Scan# 330  
Delta R.T. 0.038 min  
Lab File: VN069204.D  
Acq: 26 Oct 2021 23:53

Tgt Ion: 94 Resp: 694  
Ion Ratio Lower Upper  
94 100  
96 90.1 74.2 111.4



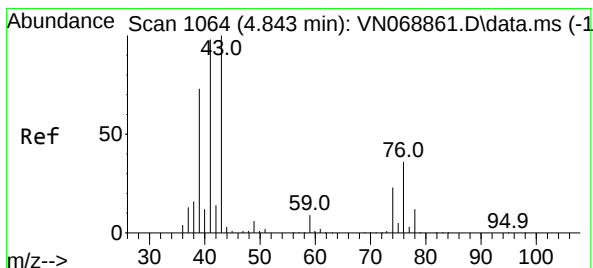
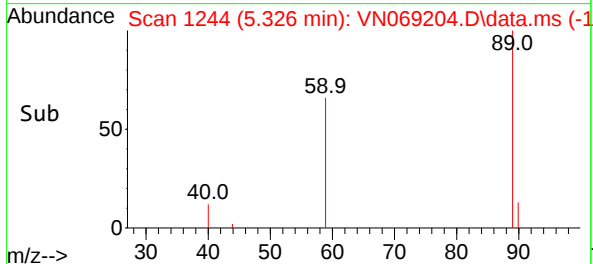
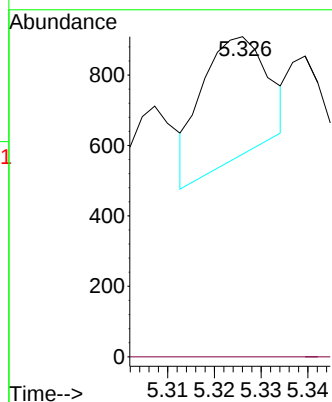
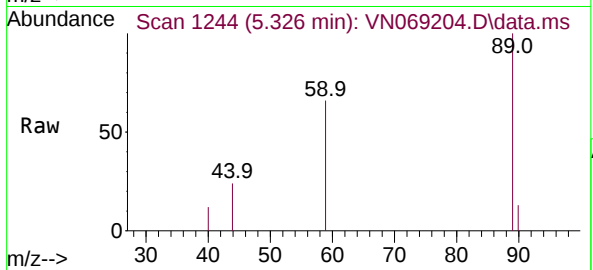


#11

Tert butyl alcohol  
Concen: 0.438 ug/l  
RT: 5.326 min Scan# 1244  
Delta R.T. -0.037 min  
Lab File: VN069204.D  
Acq: 26 Oct 2021 23:53

Instrument :  
MSVOA\_N  
ClientSampled :

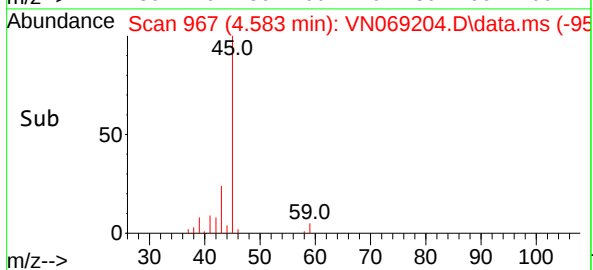
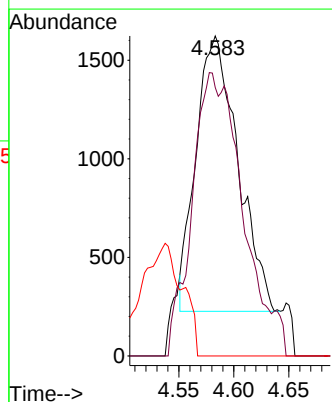
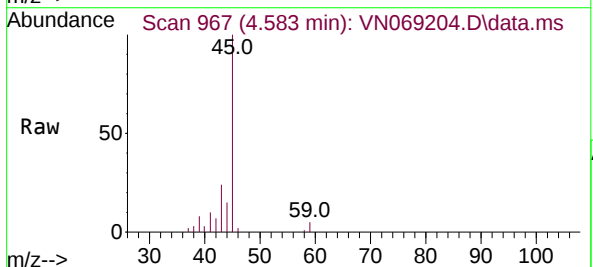
Tgt Ion: 59 Resp: 345  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.3 12.5#

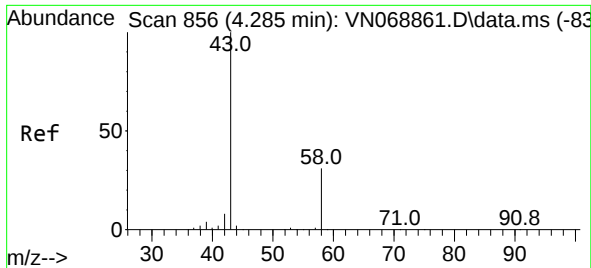


#14

Allyl chloride  
Concen: 0.654 ug/l  
RT: 4.583 min Scan# 967  
Delta R.T. -0.260 min  
Lab File: VN069204.D  
Acq: 26 Oct 2021 23:53

Tgt Ion: 41 Resp: 3707  
Ion Ratio Lower Upper  
41 100  
39 38.4 55.6 83.4#  
76 0.0 26.4 39.6#

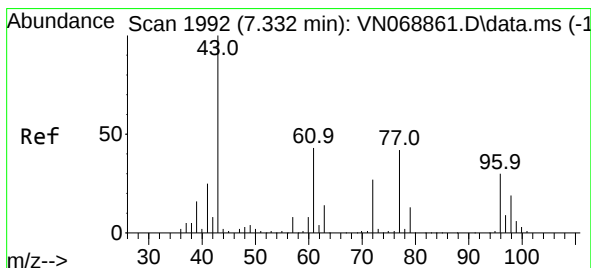
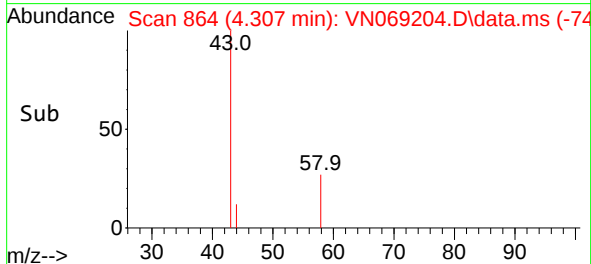
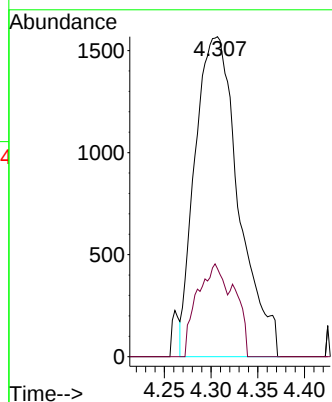
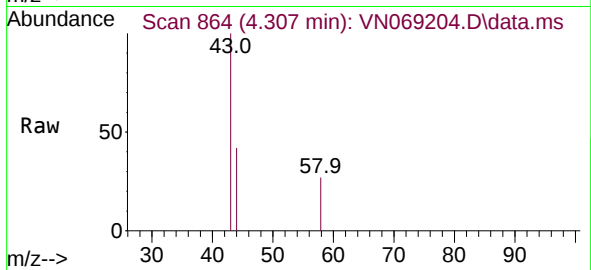




#16  
Acetone  
Concen: 3.161 ug/l  
RT: 4.307 min Scan# 864  
Delta R.T. 0.022 min  
Lab File: VN069204.D  
Acq: 26 Oct 2021 23:53

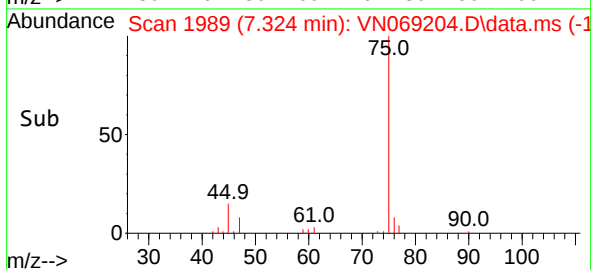
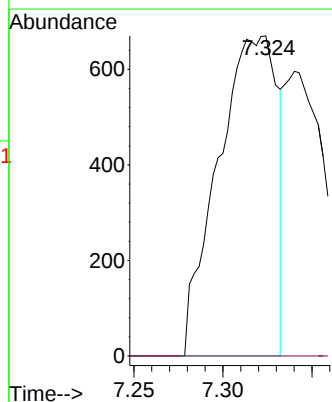
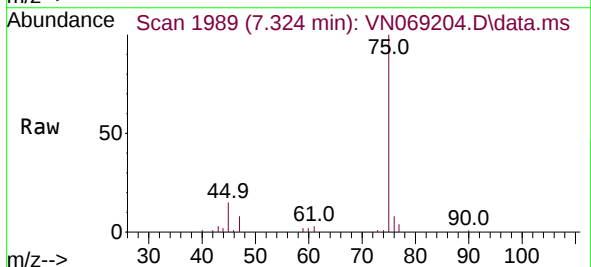
Instrument :  
MSVOA\_N  
ClientSampled :

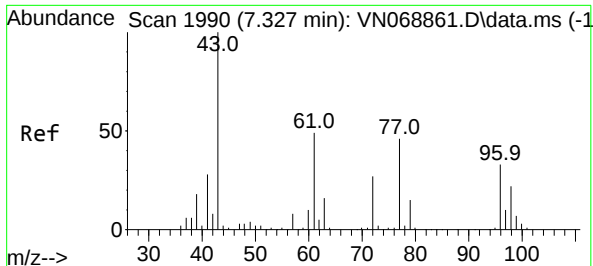
Tgt Ion: 43 Resp: 5087  
Ion Ratio Lower Upper  
43 100  
58 27.5 24.5 36.7



#25  
2-Butanone  
Concen: 0.635 ug/l  
RT: 7.324 min Scan# 1989  
Delta R.T. -0.008 min  
Lab File: VN069204.D  
Acq: 26 Oct 2021 23:53

Tgt Ion: 43 Resp: 1544  
Ion Ratio Lower Upper  
43 100  
72 0.0 21.2 31.8#

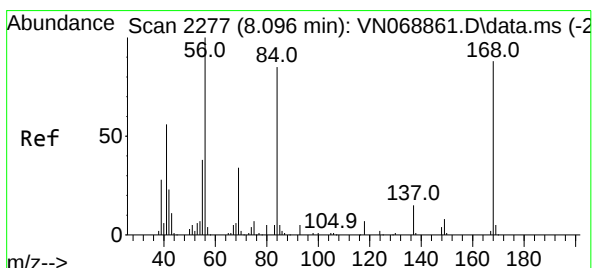
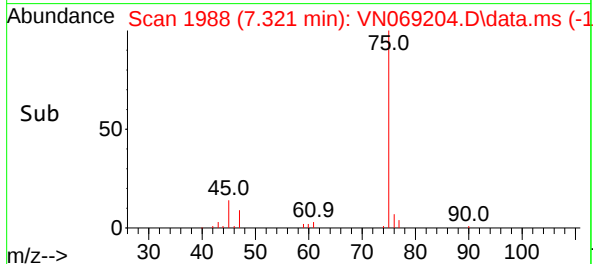
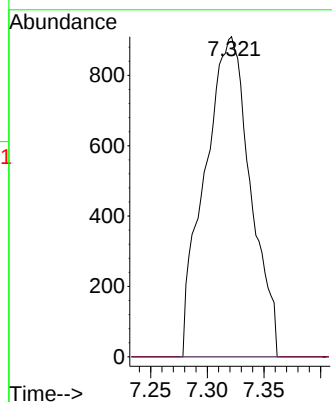
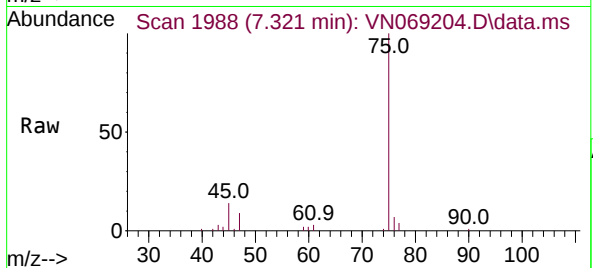




#26  
2,2-Dichloropropane  
Concen: 0.419 ug/l  
RT: 7.321 min Scan# 1988  
Delta R.T. -0.005 min  
Lab File: VN069204.D  
Acq: 26 Oct 2021 23:53

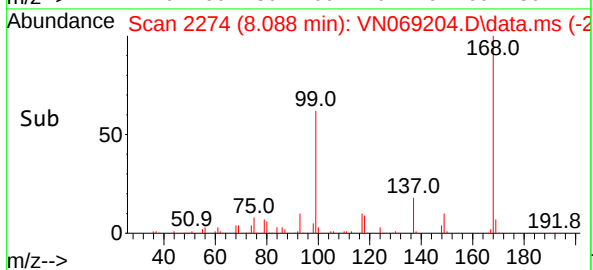
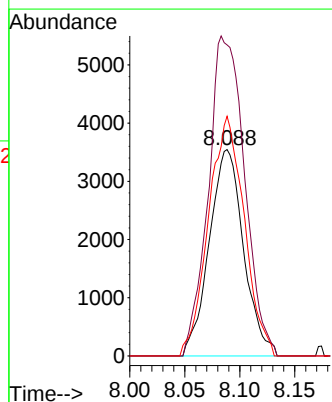
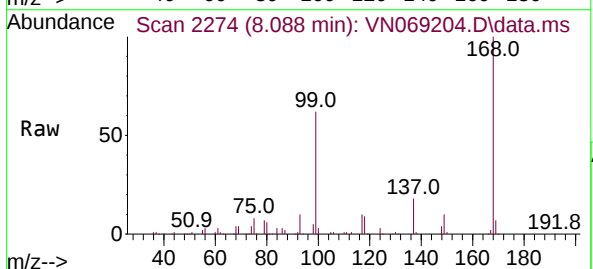
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MSVOA\_N  
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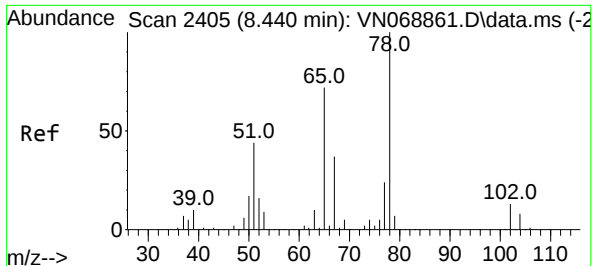
Tgt Ion: 77 Resp: 2554  
Ion Ratio Lower Upper  
77 100  
97 0.0 11.2 33.6#



#31  
Cyclohexane  
Concen: 1.149 ug/l  
RT: 8.088 min Scan# 2274  
Delta R.T. -0.008 min  
Lab File: VN069204.D  
Acq: 26 Oct 2021 23:53

Tgt Ion: 56 Resp: 7705  
Ion Ratio Lower Upper  
56 100  
69 150.7 26.9 40.3#  
84 116.1 67.6 101.4#



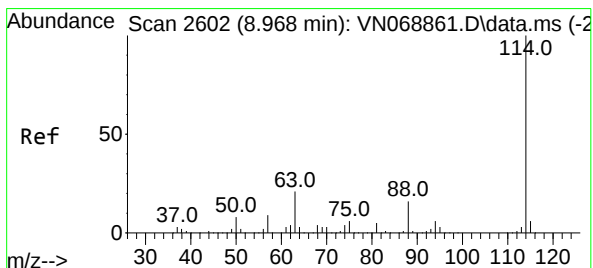
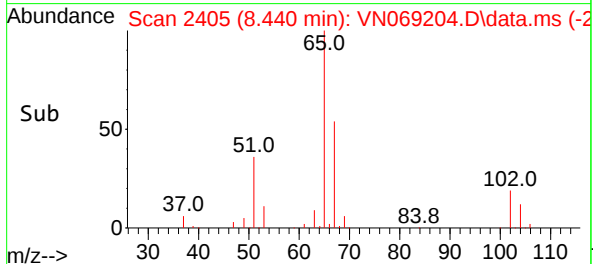
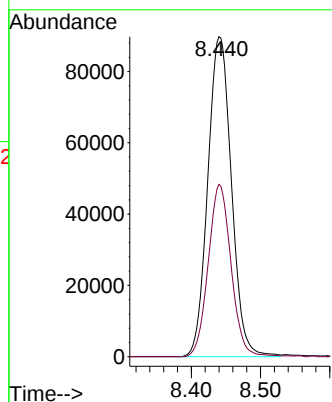
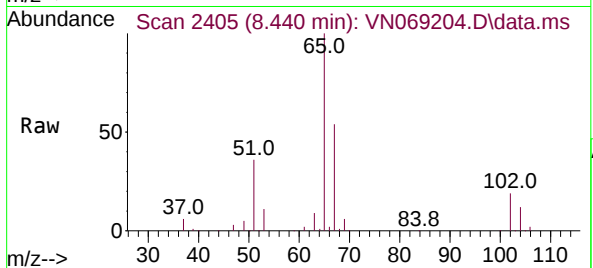


#33

1,2-Dichloroethane-d4  
Concen: 49.456 ug/l  
RT: 8.440 min Scan# 2405  
Delta R.T. 0.000 min  
Lab File: VN069204.D  
Acq: 26 Oct 2021 23:53

Instrument :  
MSVOA\_N  
ClientSampled :

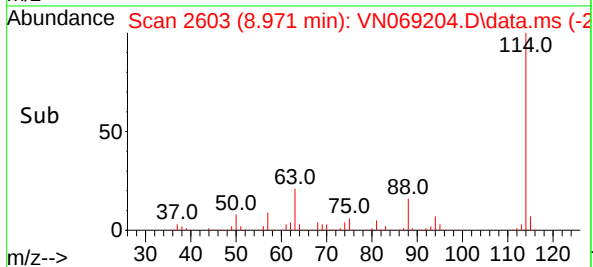
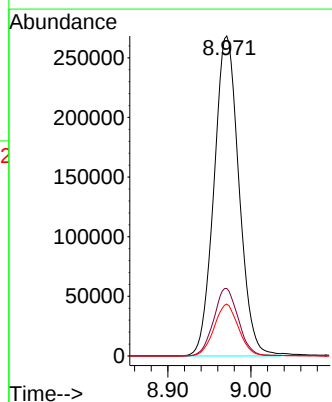
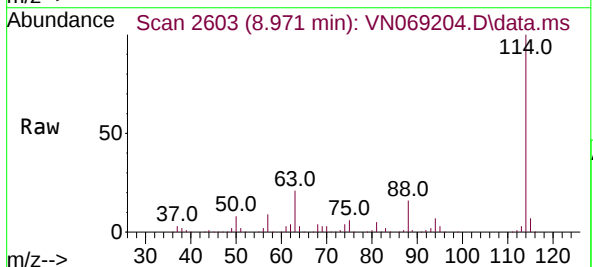
Tgt Ion: 65 Resp: 213253  
Ion Ratio Lower Upper  
65 100  
67 51.9 0.0 103.8

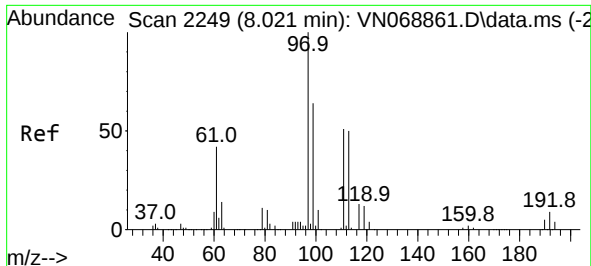


#34

1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.971 min Scan# 2603  
Delta R.T. 0.003 min  
Lab File: VN069204.D  
Acq: 26 Oct 2021 23:53

Tgt Ion: 114 Resp: 559884  
Ion Ratio Lower Upper  
114 100  
63 21.1 0.0 42.6  
88 16.2 0.0 32.0

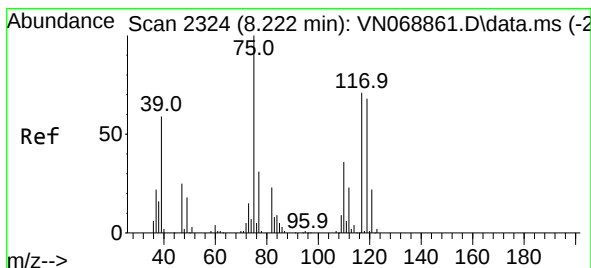
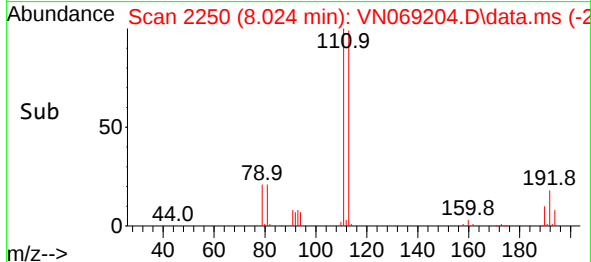
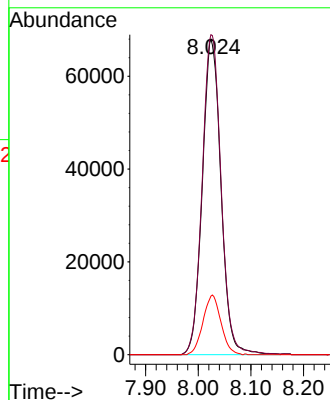
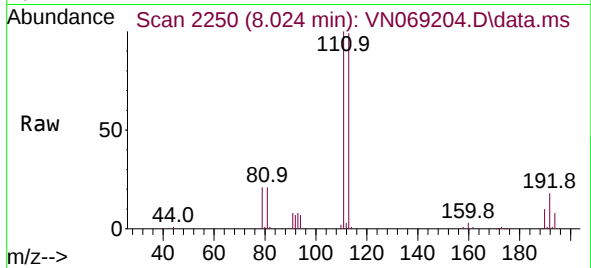




#35  
Dibromofluoromethane  
Concen: 51.405 ug/l  
RT: 8.024 min Scan# 2250  
Delta R.T. 0.003 min  
Lab File: VN069204.D  
Acq: 26 Oct 2021 23:53

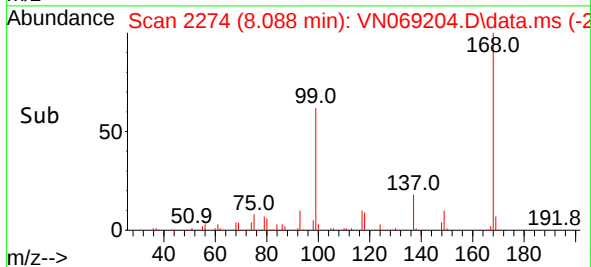
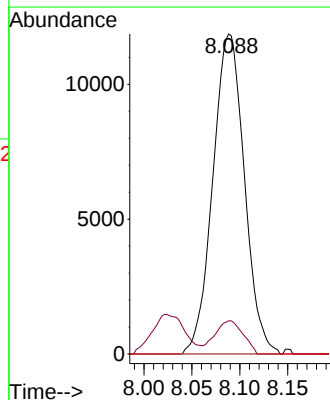
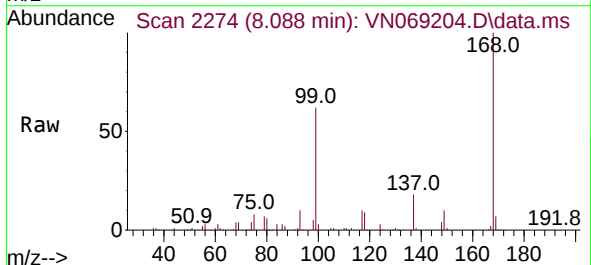
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MSVOA\_N  
ClientSampled :

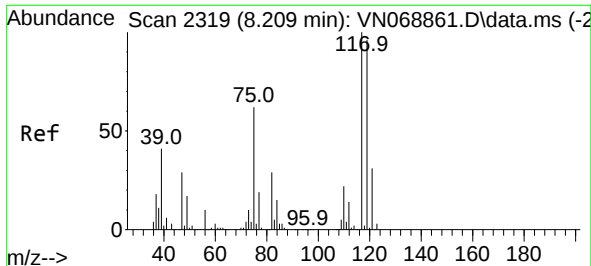
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Ion Ratio Lower Upper  
113 100  
111 102.9 83.2 124.8  
192 18.2 15.0 22.4



#36  
1,1-Dichloropropene  
Concen: 5.675 ug/l  
RT: 8.088 min Scan# 2274  
Delta R.T. -0.134 min  
Lab File: VN069204.D  
Acq: 26 Oct 2021 23:53

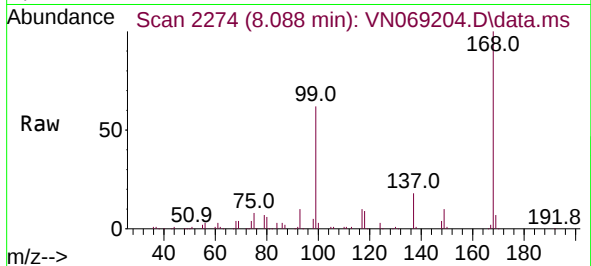
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Ion Ratio Lower Upper  
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77 0.0 24.7 37.1#



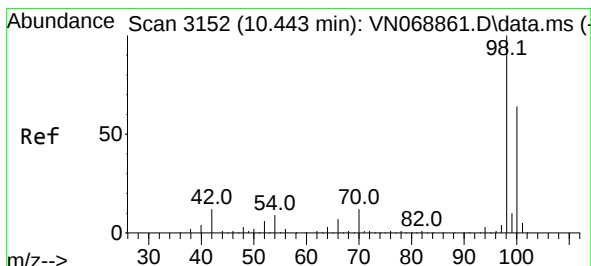
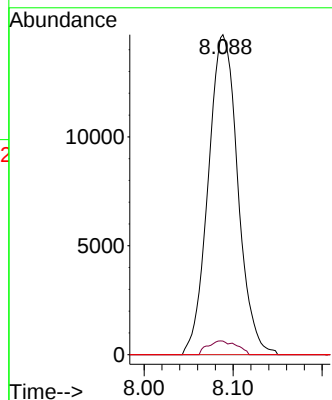
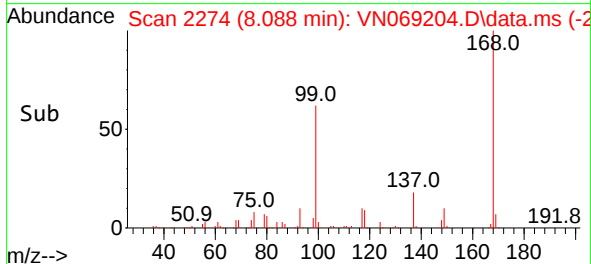


#38  
Carbon Tetrachloride  
Concen: 6.457 ug/l  
RT: 8.088 min Scan# 2274  
Delta R.T. -0.121 min  
Lab File: VN069204.D  
Acq: 26 Oct 2021 23:53

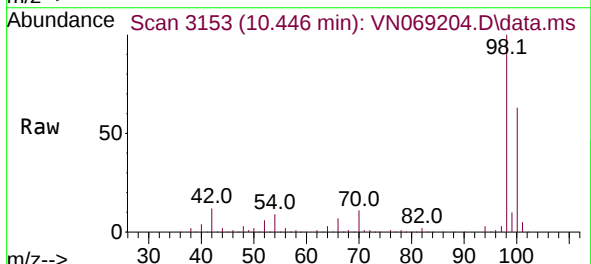
Instrument :  
MSVOA\_N  
ClientSampled :



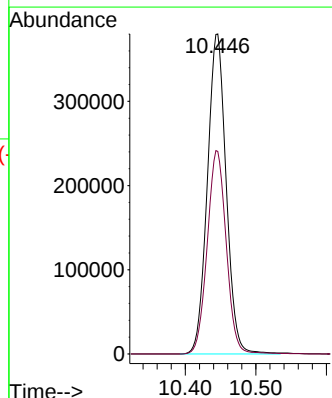
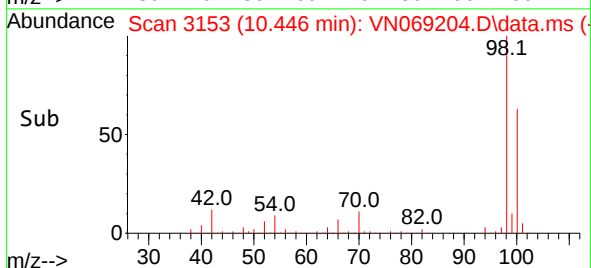
Tgt Ion:117 Resp: 33913  
Ion Ratio Lower Upper  
117 100  
119 4.3 76.9 115.3#  
121 0.0 24.6 37.0#

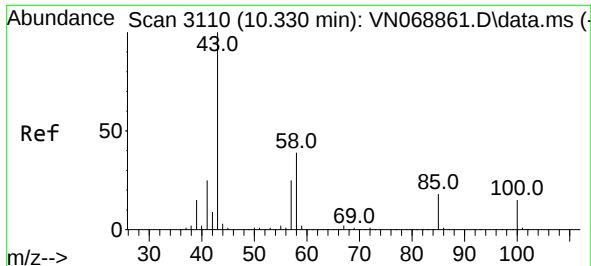


#50  
Toluene-d8  
Concen: 54.057 ug/l  
RT: 10.446 min Scan# 3153  
Delta R.T. 0.003 min  
Lab File: VN069204.D  
Acq: 26 Oct 2021 23:53



Tgt Ion: 98 Resp: 704560  
Ion Ratio Lower Upper  
98 100  
100 64.2 51.5 77.3

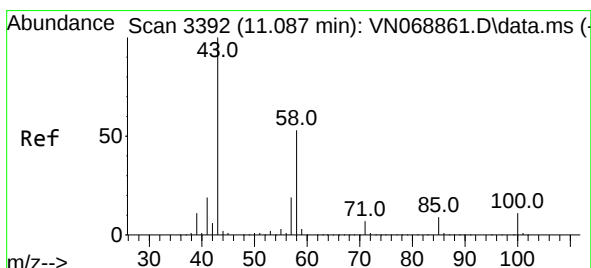
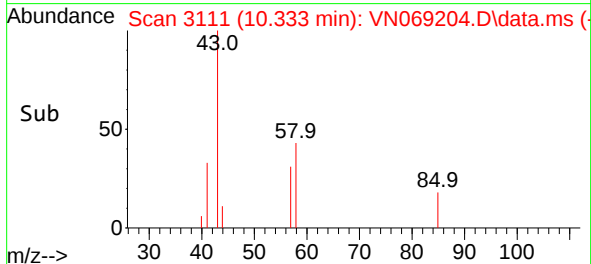
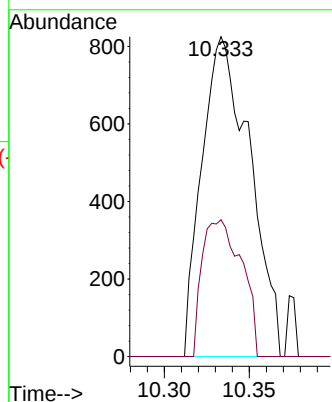
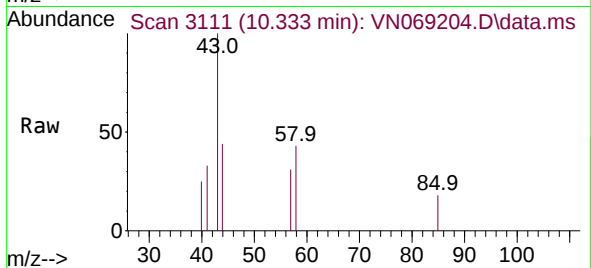




#51  
4-Methyl-2-Pentanone  
Concen: 0.320 ug/l  
RT: 10.333 min Scan# 3111  
Delta R.T. 0.003 min  
Lab File: VN069204.D  
Acq: 26 Oct 2021 23:53

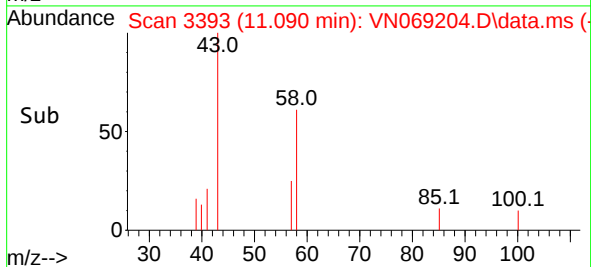
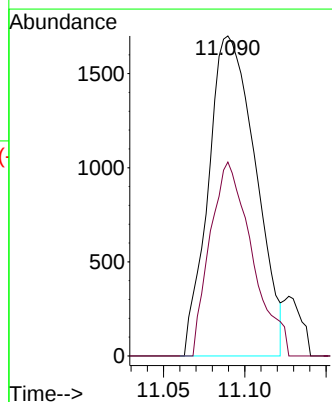
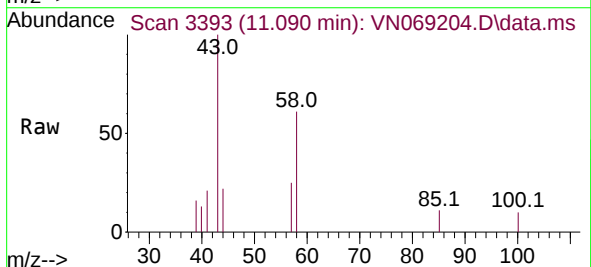
Instrument :  
MSVOA\_N  
ClientSampled :

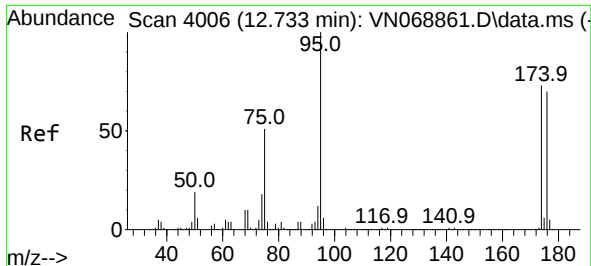
Tgt Ion: 43 Resp: 1619  
Ion Ratio Lower Upper  
43 100  
58 35.1 31.0 46.4



#59  
2-Hexanone  
Concen: 0.950 ug/l  
RT: 11.090 min Scan# 3393  
Delta R.T. 0.003 min  
Lab File: VN069204.D  
Acq: 26 Oct 2021 23:53

Tgt Ion: 43 Resp: 3441  
Ion Ratio Lower Upper  
43 100  
58 53.8 26.9 80.7

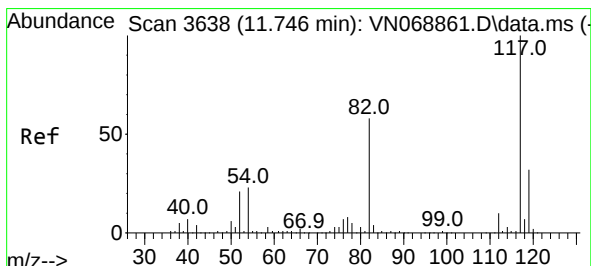
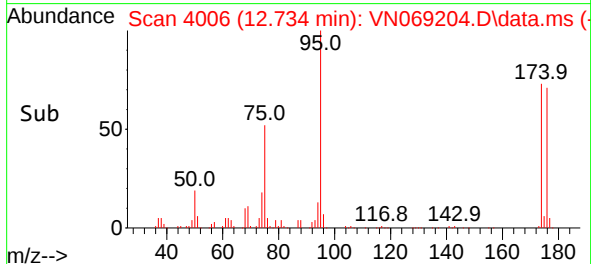
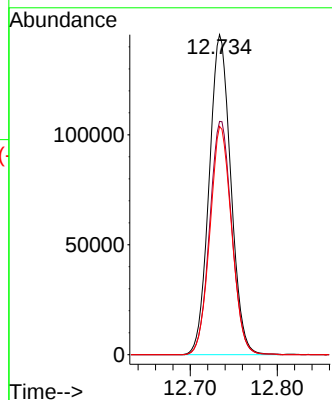
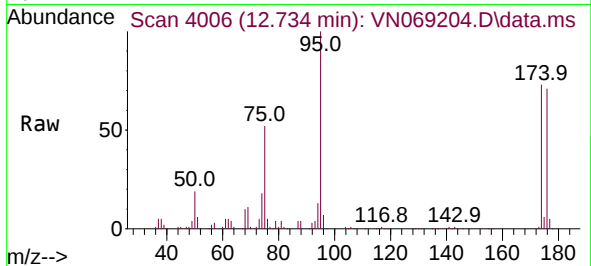




#62  
4-Bromofluorobenzene  
Concen: 51.259 ug/l  
RT: 12.734 min Scan# 4006  
Delta R.T. 0.000 min  
Lab File: VN069204.D  
Acq: 26 Oct 2021 23:53

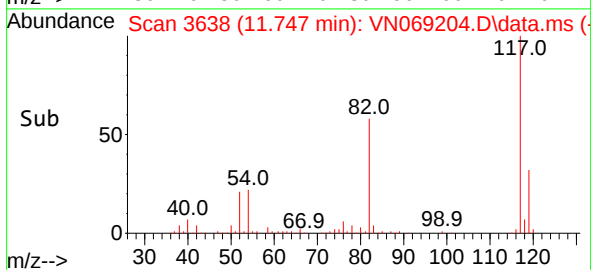
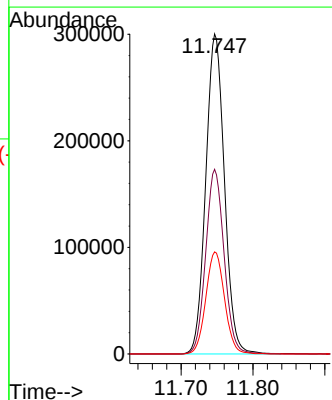
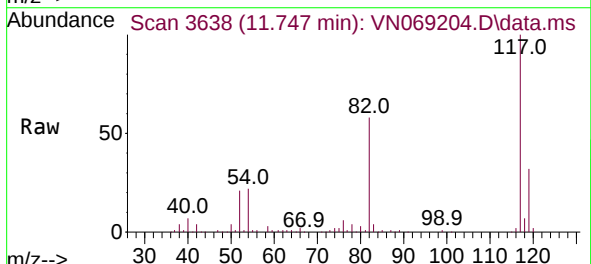
Instrument :  
MSVOA\_N  
ClientSampled :

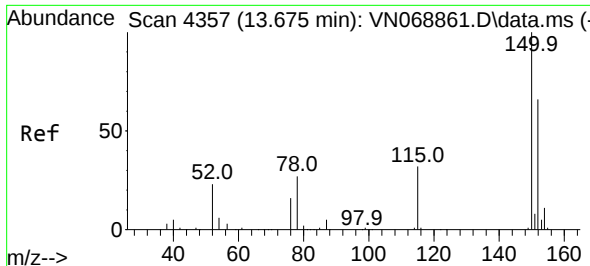
Tgt Ion: 95 Resp: 252061  
Ion Ratio Lower Upper  
95 100  
174 74.3 0.0 144.8  
176 71.5 0.0 140.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.747 min Scan# 3638  
Delta R.T. 0.000 min  
Lab File: VN069204.D  
Acq: 26 Oct 2021 23:53

Tgt Ion: 117 Resp: 542984  
Ion Ratio Lower Upper  
117 100  
82 57.7 46.4 69.6  
119 31.9 26.0 39.0

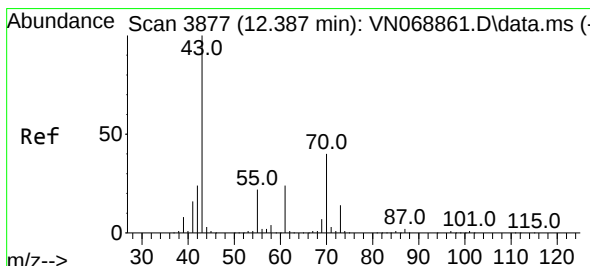
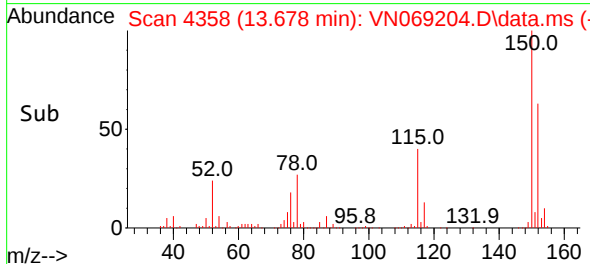
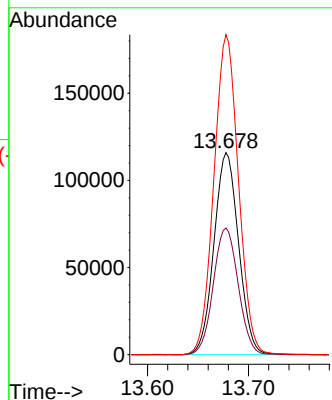
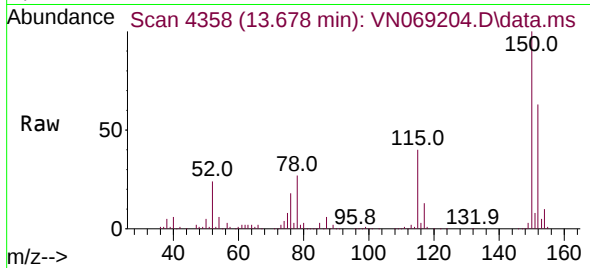




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.678 min Scan# 4358  
Delta R.T. 0.003 min  
Lab File: VN069204.D  
Acq: 26 Oct 2021 23:53

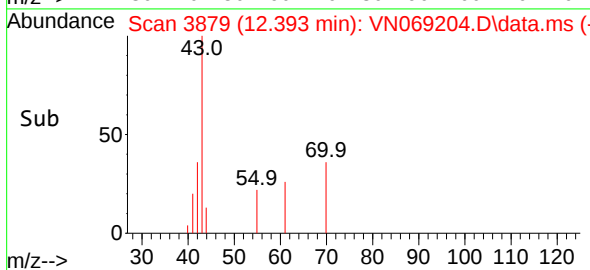
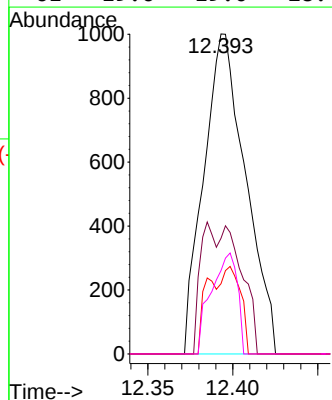
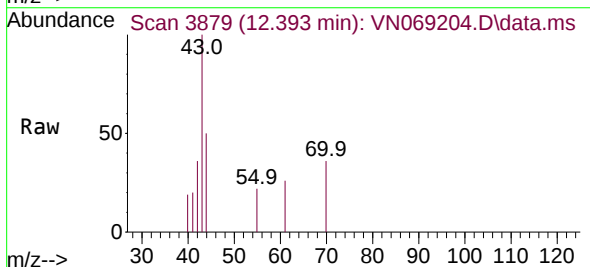
Instrument :  
MSVOA\_N  
ClientSampled :

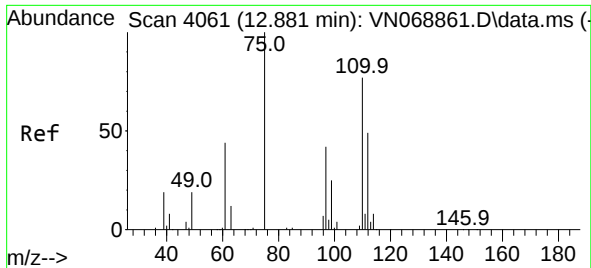
Tgt Ion:152 Resp: 196420  
Ion Ratio Lower Upper  
152 100  
115 63.5 31.4 94.3  
150 158.0 0.0 351.0



#74  
N-ethyl acetate  
Concen: 0.277 ug/l  
RT: 12.393 min Scan# 3879  
Delta R.T. 0.006 min  
Lab File: VN069204.D  
Acq: 26 Oct 2021 23:53

Tgt Ion: 43 Resp: 1717  
Ion Ratio Lower Upper  
43 100  
70 0.0 32.2 48.2#  
55 10.8 18.0 27.0#  
61 19.6 19.0 28.4

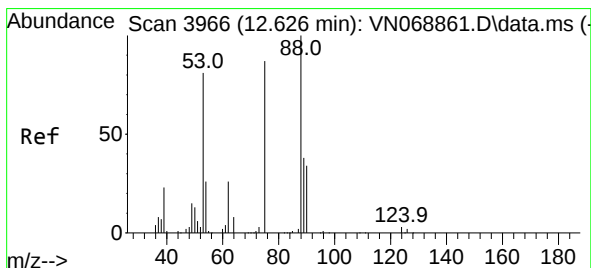
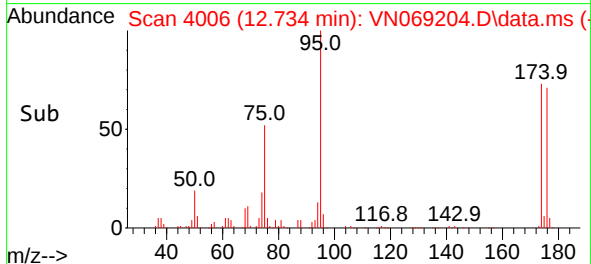
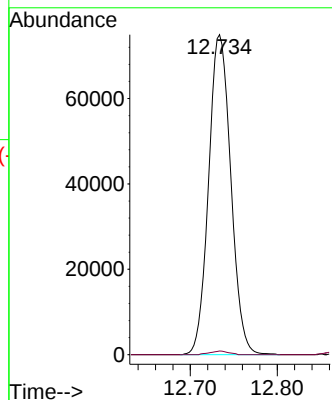
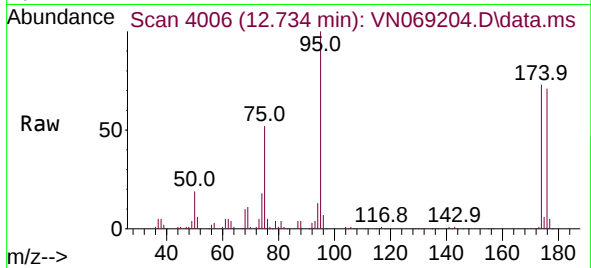




#76  
1,2,3-Trichloropropane  
Concen: 31.831 ug/l  
RT: 12.734 min Scan# 4006  
Delta R.T. -0.147 min  
Lab File: VN069204.D  
Acq: 26 Oct 2021 23:53

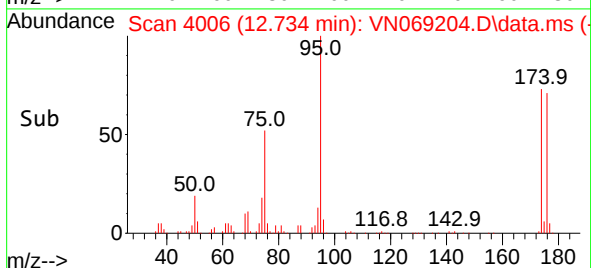
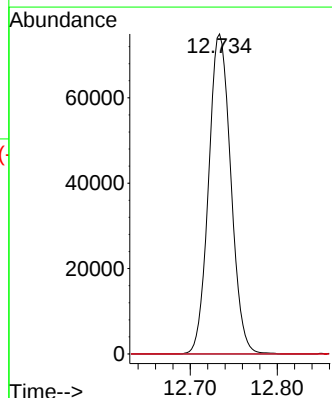
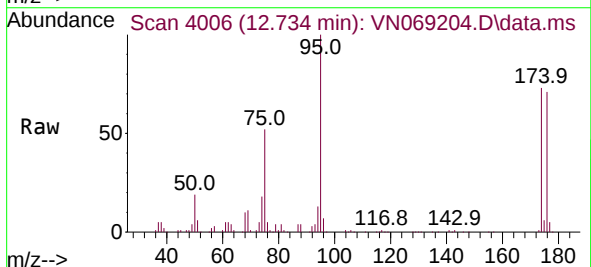
Instrument :  
MSVOA\_N  
ClientSampled :

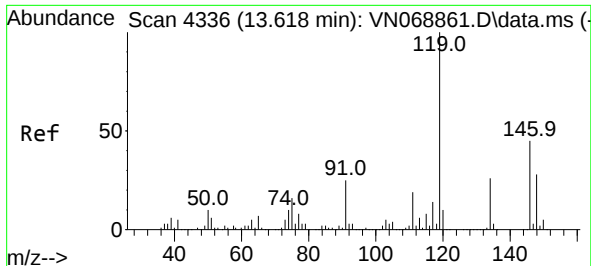
Tgt Ion: 75 Resp: 133028  
Ion Ratio Lower Upper  
75 100  
77 1.0 96.2 288.4#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 76.153 ug/l  
RT: 12.734 min Scan# 4006  
Delta R.T. 0.107 min  
Lab File: VN069204.D  
Acq: 26 Oct 2021 23:53

Tgt Ion: 75 Resp: 133028  
Ion Ratio Lower Upper  
75 100  
53 0.0 75.4 113.2#  
89 0.0 36.9 55.3#





#87

1,3-Dichlorobenzene

Concen: 0.217 ug/l

RT: 13.619 min Scan# 4336

Delta R.T. 0.000 min

Lab File: VN069204.D

Acq: 26 Oct 2021 23:53

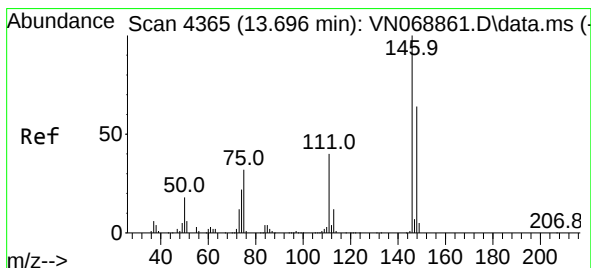
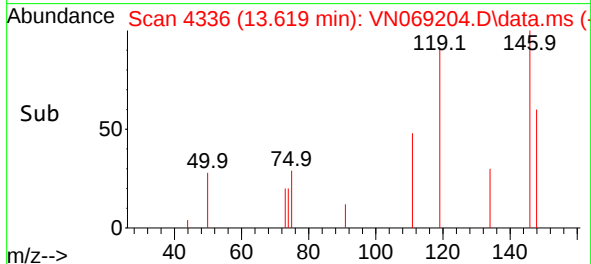
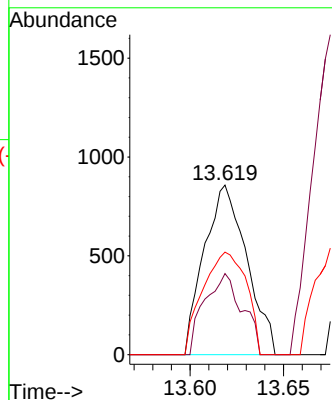
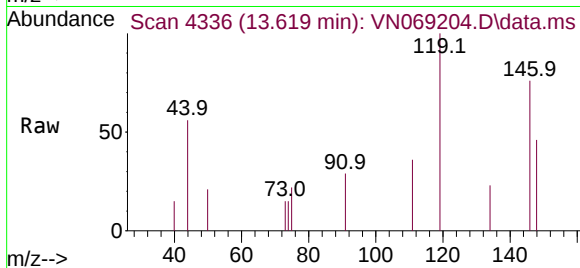
Tgt Ion:146 Resp: 1356

Ion Ratio Lower Upper

146 100

111 42.3 21.4 64.2

148 62.0 32.0 96.2



#88

1,4-Dichlorobenzene

Concen: 0.218 ug/l

RT: 13.619 min Scan# 4336

Delta R.T. -0.078 min

Lab File: VN069204.D

Acq: 26 Oct 2021 23:53

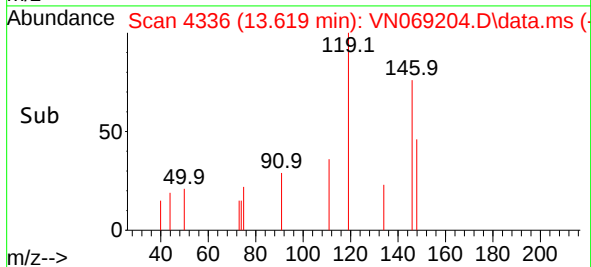
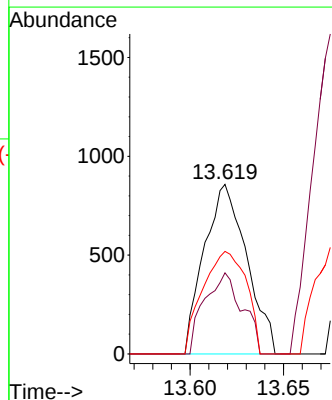
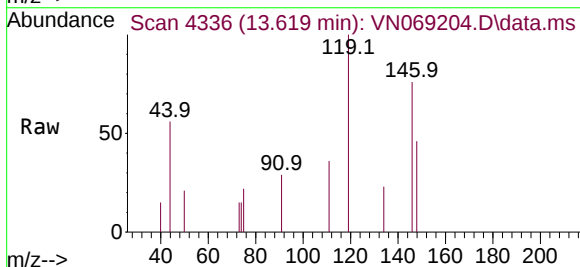
Tgt Ion:146 Resp: 1356

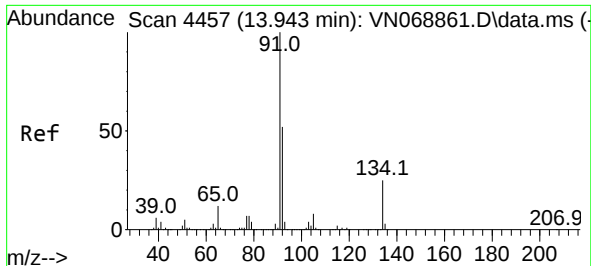
Ion Ratio Lower Upper

146 100

111 42.3 20.6 61.8

148 62.0 32.1 96.5

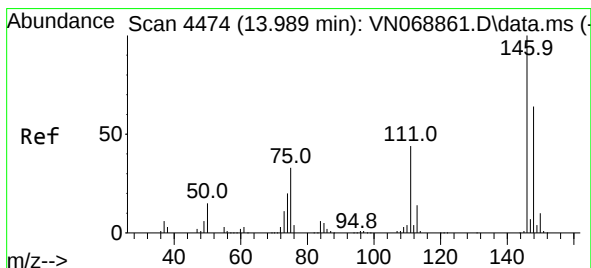
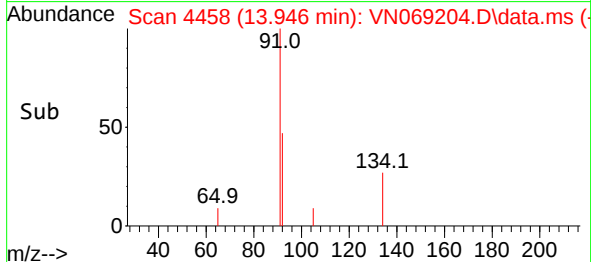
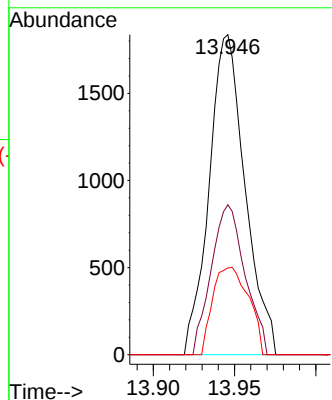
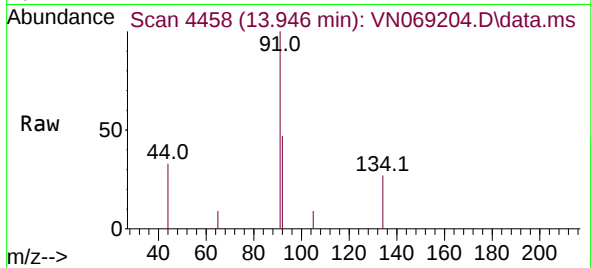




#89  
n-Butylbenzene  
Concen: 0.258 ug/l  
RT: 13.946 min Scan# 4458  
Delta R.T. 0.003 min  
Lab File: VN069204.D  
Acq: 26 Oct 2021 23:53

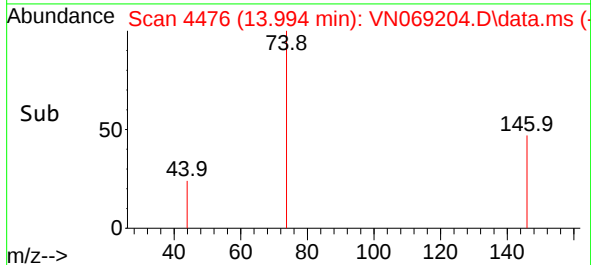
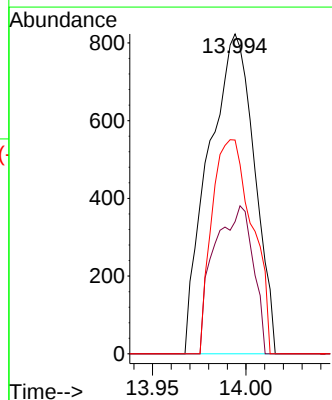
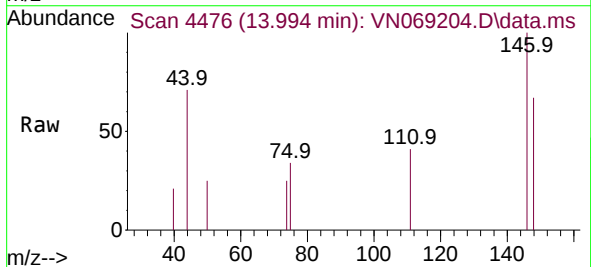
Instrument :  
MSVOA\_N  
ClientSampled :

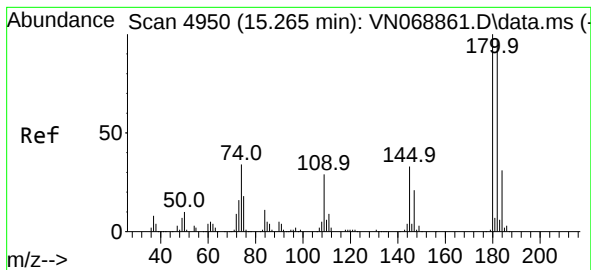
|             |                |
|-------------|----------------|
| Tgt Ion: 91 | Resp: 2829     |
| Ion Ratio   | Lower Upper    |
| 91          | 100            |
| 92          | 44.2 26.0 78.0 |
| 134         | 27.1 12.5 37.5 |



#91  
1,2-Dichlorobenzene  
Concen: 0.231 ug/l  
RT: 13.994 min Scan# 4476  
Delta R.T. 0.006 min  
Lab File: VN069204.D  
Acq: 26 Oct 2021 23:53

|              |                |
|--------------|----------------|
| Tgt Ion: 146 | Resp: 1401     |
| Ion Ratio    | Lower Upper    |
| 146          | 100            |
| 111          | 39.1 22.0 66.0 |
| 148          | 58.7 32.1 96.5 |

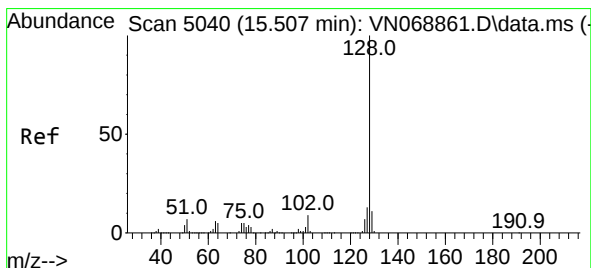
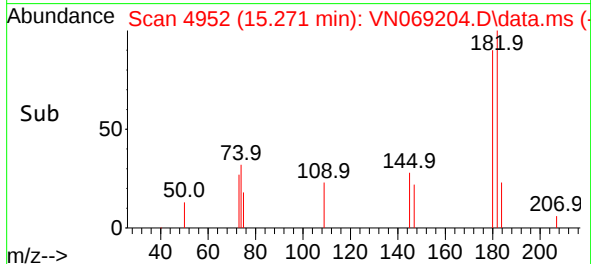
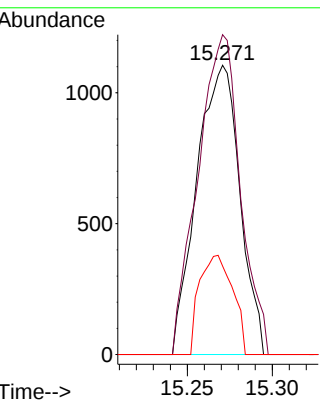
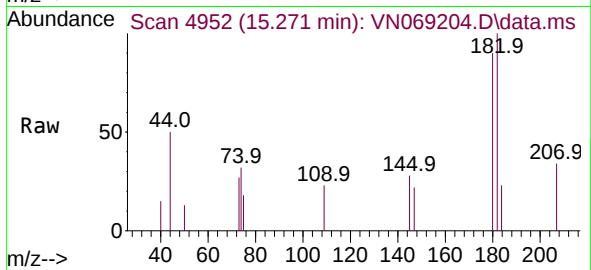




#93  
1,2,4-Trichlorobenzene  
Concen: 3.162 ug/l  
RT: 15.271 min Scan# 4952  
Delta R.T. 0.006 min  
Lab File: VN069204.D  
Acq: 26 Oct 2021 23:53

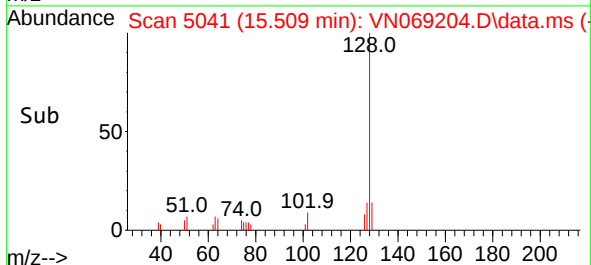
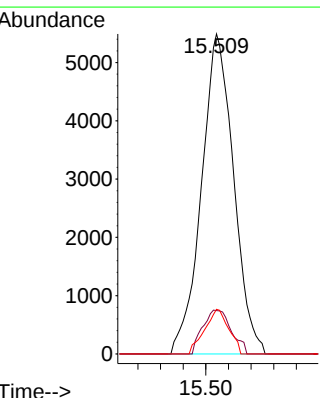
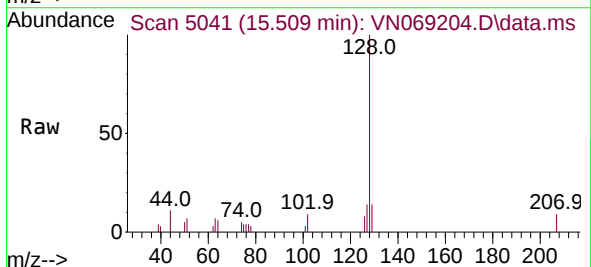
Instrument :  
MSVOA\_N  
ClientSampled :

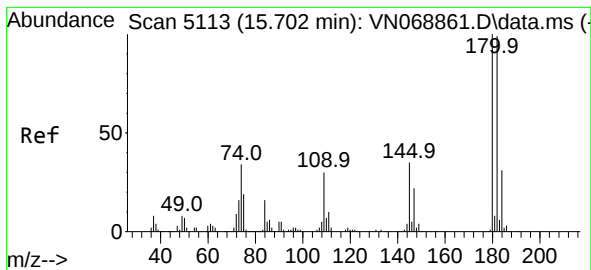
Tgt Ion:180 Resp: 1950  
Ion Ratio Lower Upper  
180 100  
182 108.9 47.9 143.7  
145 26.4 16.4 49.2



#95  
Naphthalene  
Concen: 4.906 ug/l  
RT: 15.509 min Scan# 5041  
Delta R.T. 0.002 min  
Lab File: VN069204.D  
Acq: 26 Oct 2021 23:53

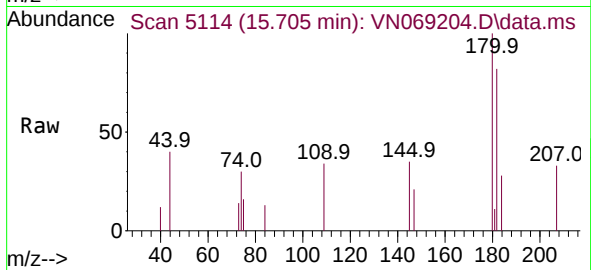
Tgt Ion:128 Resp: 10797  
Ion Ratio Lower Upper  
128 100  
127 12.1 10.5 15.7  
129 10.5 8.9 13.3





#96  
 1,2,3-Trichlorobenzene  
 Concen: 3.289 ug/l  
 RT: 15.705 min Scan# 5114  
 Delta R.T. 0.003 min  
 Lab File: VN069204.D  
 Acq: 26 Oct 2021 23:53

Instrument :  
 MSVOA\_N  
 ClientSampleId :



Tgt Ion:180 Resp: 2562  
 Ion Ratio Lower Upper  
 180 100  
 182 96.1 48.1 144.3  
 145 27.9 17.4 52.2

