

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN051921\  
 Data File : VN067148.D  
 Acq On : 19 May 2021 13:56  
 Operator : JC/MD  
 Sample : M2392-19  
 Misc : 5.04g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: May 20 01:55:01 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N051421W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 18 04:00:15 2021  
 Response via : Initial Calibration

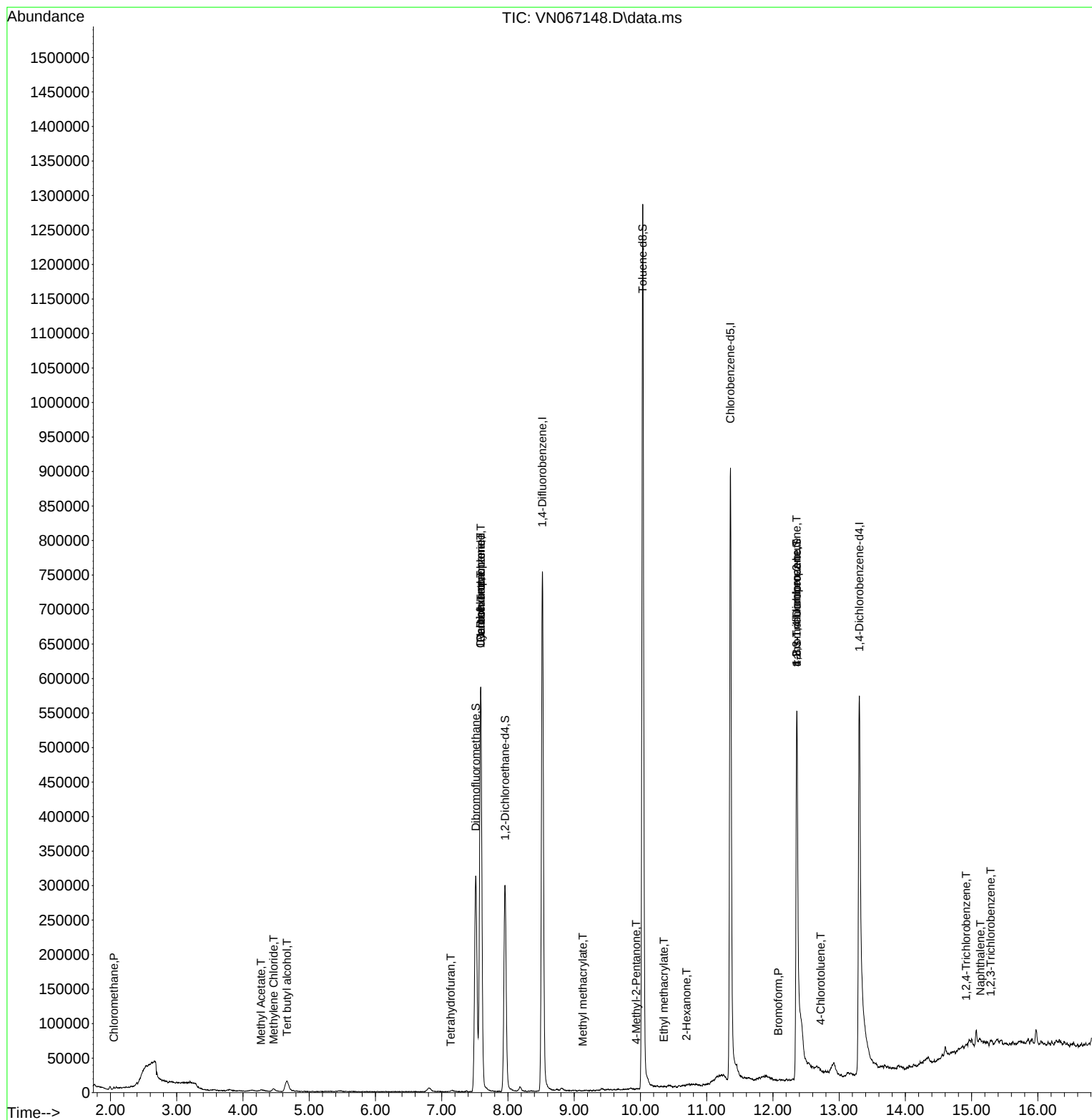
| Compound                      | R.T.           | QIon | Response   | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|-----------|--------|----------|
| -----                         |                |      |            |           |        |          |
| Internal Standards            |                |      |            |           |        |          |
| 1) Pentafluorobenzene         | 7.589          | 168  | 563821     | 50.00     | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.520          | 114  | 780898     | 50.00     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.360         | 117  | 659879     | 50.00     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.304         | 152  | 311873     | 50.00     | ug/l   | 0.00     |
|                               |                |      |            |           |        |          |
| System Monitoring Compounds   |                |      |            |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 7.956          | 65   | 271752     | 44.61     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 61 - 141 |      | Recovery = | 89.22%    |        |          |
| 35) Dibromofluoromethane      | 7.514          | 113  | 257039     | 50.13     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 69 - 133 |      | Recovery = | 100.26%   |        |          |
| 50) Toluene-d8                | 10.035         | 98   | 979244     | 50.39     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 126 |      | Recovery = | 100.78%   |        |          |
| 62) 4-Bromofluorobenzene      | 12.360         | 95   | 307016     | 47.16     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 135 |      | Recovery = | 94.32%    |        |          |
|                               |                |      |            |           |        |          |
| Target Compounds              |                |      |            |           |        | Qvalue   |
| 3) Chloromethane              | 2.051          | 50   | 1623       | 0.26      | ug/l   | 92       |
| 11) Tert butyl alcohol        | 4.666          | 59   | 15073      | 14.85     | ug/l # | 87       |
| 13) Acrolein                  | 3.550          | 56   | 812        | Below Cal | #      | 17       |
| 18) Methyl Acetate            | 4.274          | 43   | 1615       | 0.29      | ug/l # | 81       |
| 20) Methylene Chloride        | 4.462          | 84   | 1148       | 0.26      | ug/l # | 77       |
| 29) Tetrahydrofuran           | 7.138          | 42   | 548        | 0.30      | ug/l # | 50       |
| 31) Cyclohexane               | 7.586          | 56   | 8164       | 0.97      | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 7.586          | 75   | 32240      | 4.53      | ug/l # | 48       |
| 38) Carbon Tetrachloride      | 7.589          | 117  | 45287      | 5.97      | ug/l # | 15       |
| 48) Methyl methacrylate       | 9.131          | 41   | 77         | 1.96      | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 9.938          | 43   | 186        | 5.43      | ug/l # | 33       |
| 56) Ethyl methacrylate        | 10.354         | 69   | 45         | 1.95      | ug/l # | 1        |
| 59) 2-Hexanone                | 10.695         | 43   | 112        | 21.94     | ug/l # | 21       |
| 71) Bromoform                 | 12.081         | 173  | 243        | 1.81      | ug/l # | 28       |
| 76) 1,2,3-Trichloropropane    | 12.360         | 75   | 108591     | 16.50     | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.360         | 75   | 108591     | 50.64     | ug/l # | 16       |
| 82) 4-Chlorotoluene           | 12.720         | 91   | 119        | 1.19      | ug/l   | 89       |
| 93) 1,2,4-Trichlorobenzene    | 14.916         | 180  | 1392       | 0.25      | ug/l   | 87       |
| 95) Naphthalene               | 15.133         | 128  | 4036       | 3.54      | ug/l # | 84       |
| 96) 1,2,3-Trichlorobenzene    | 15.289         | 180  | 2976       | 0.58      | ug/l # | 39       |
| -----                         |                |      |            |           |        |          |

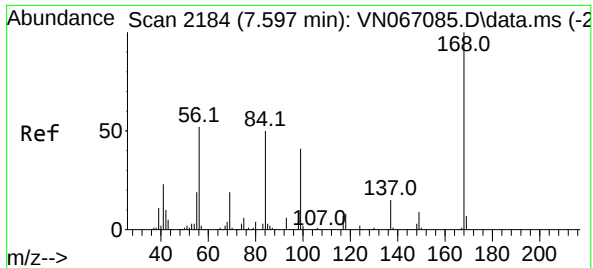
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN051921\  
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MSVOA\_N  
ClientSampleId :

Quant Time: May 20 01:55:01 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N051421W.M  
Quant Title : SW846 8260  
QLast Update : Tue May 18 04:00:15 2021  
Response via : Initial Calibration

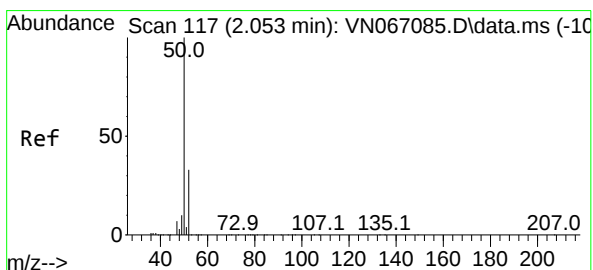
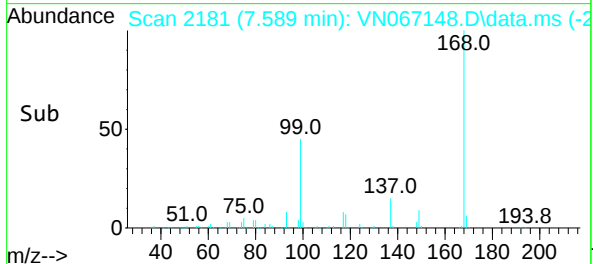
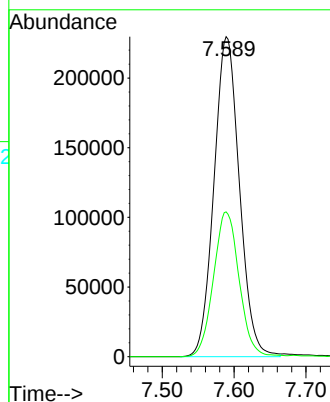
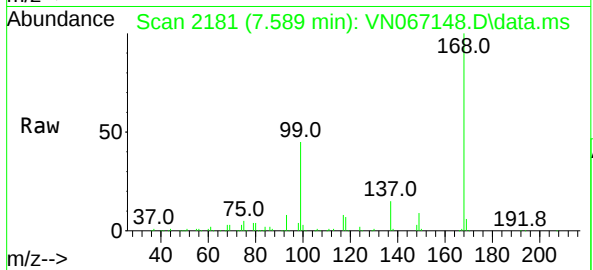




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 7.589 min Scan# 2181  
Delta R.T. -0.008 min  
Lab File: VN067148.D  
Acq: 19 May 2021 13:56

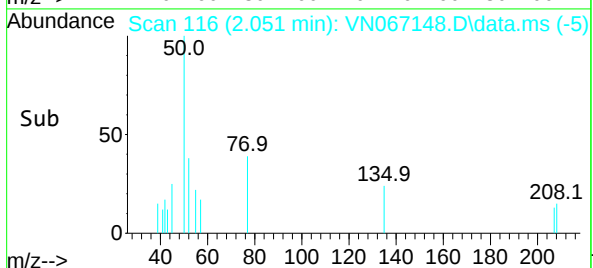
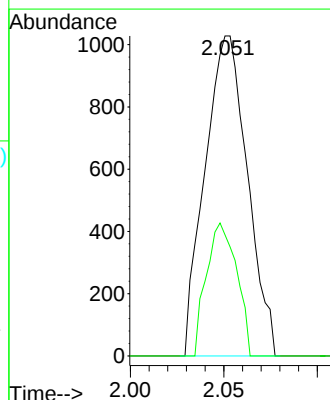
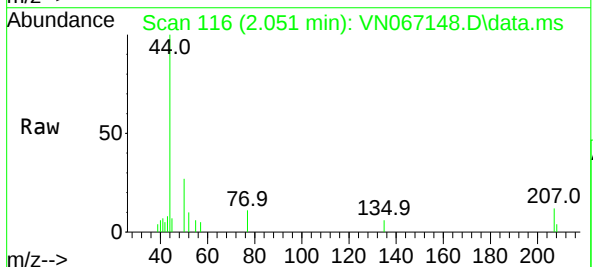
Instrument :  
MSVOA\_N  
ClientSampled :

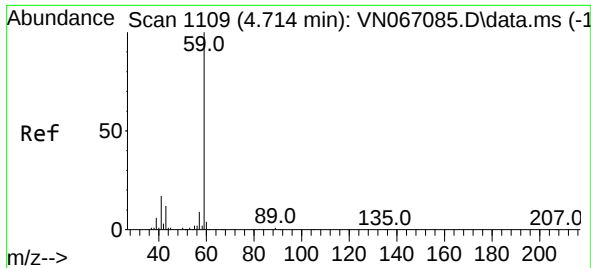
Tgt Ion:168 Resp: 563821  
Ion Ratio Lower Upper  
168 100  
99 45.2 38.5 57.7



#3  
Chloromethane  
Concen: 0.26 ug/l  
RT: 2.051 min Scan# 116  
Delta R.T. -0.002 min  
Lab File: VN067148.D  
Acq: 19 May 2021 13:56

Tgt Ion: 50 Resp: 1623  
Ion Ratio Lower Upper  
50 100  
52 37.8 26.5 39.7

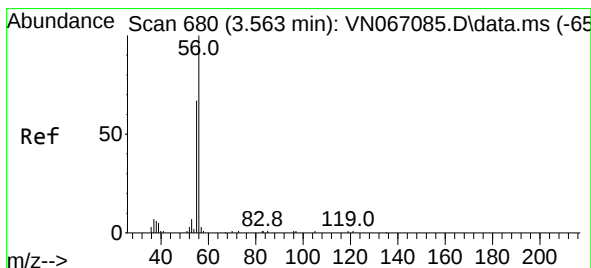
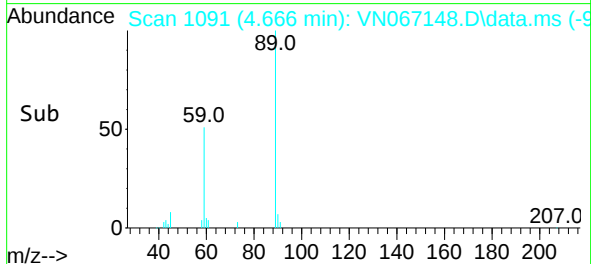
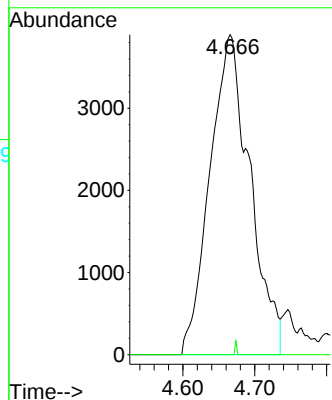
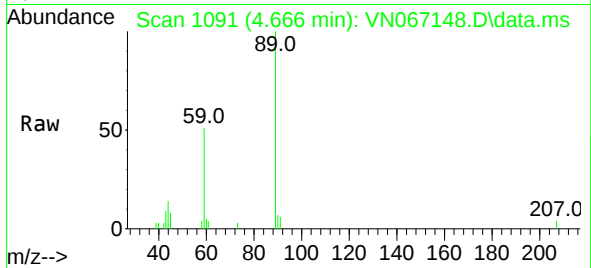




#11  
Tert butyl alcohol  
Concen: 14.85 ug/l  
RT: 4.666 min Scan# 1091  
Delta R.T. -0.048 min  
Lab File: VN067148.D  
Acq: 19 May 2021 13:56

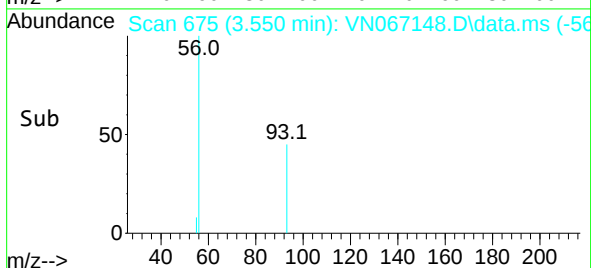
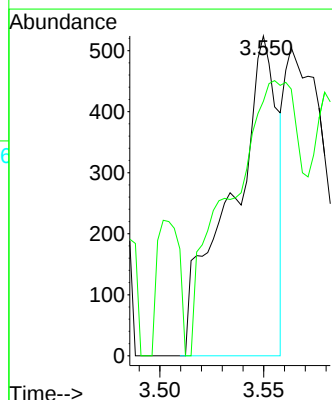
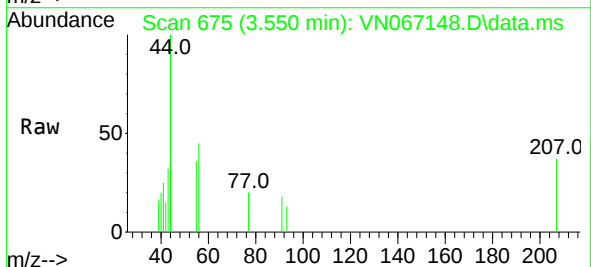
Instrument :  
MSVOA\_N  
ClientSampled :

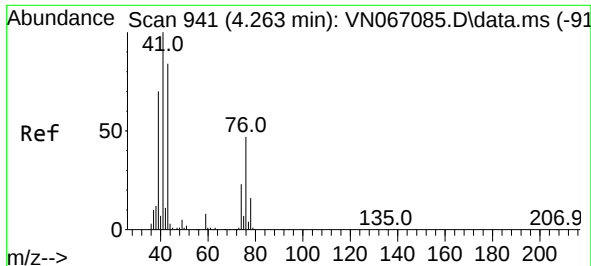
Tgt Ion: 59 Resp: 15073  
Ion Ratio Lower Upper  
59 100  
57 0.2 3.5 5.3#



#13  
Acrolein  
Concen: Below Cal  
RT: 3.550 min Scan# 675  
Delta R.T. -0.013 min  
Lab File: VN067148.D  
Acq: 19 May 2021 13:56

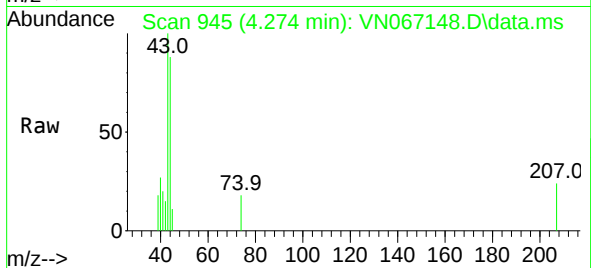
Tgt Ion: 56 Resp: 812  
Ion Ratio Lower Upper  
56 100  
55 134.0 53.8 80.6#



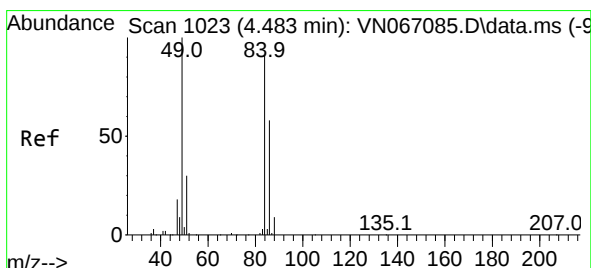
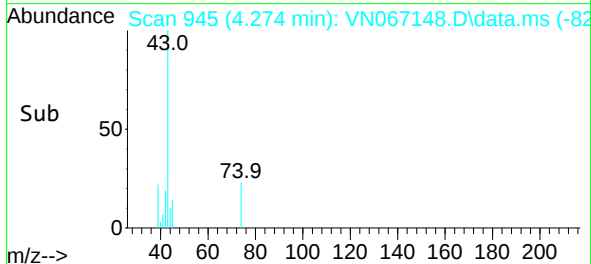
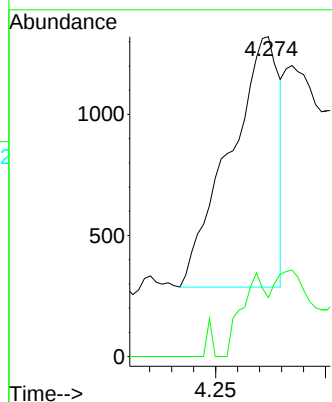


#18  
Methyl Acetate  
Concen: 0.29 ug/l  
RT: 4.274 min Scan# 945  
Delta R.T. 0.011 min  
Lab File: VN067148.D  
Acq: 19 May 2021 13:56

Instrument :  
MSVOA\_N  
ClientSampled :

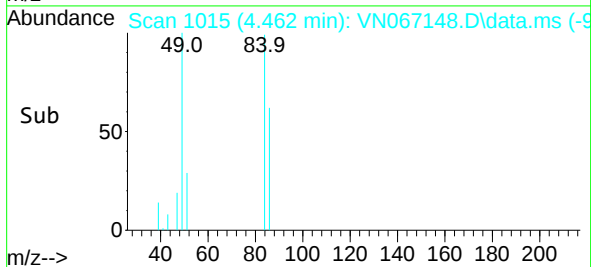
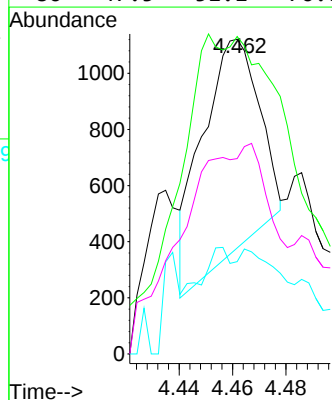
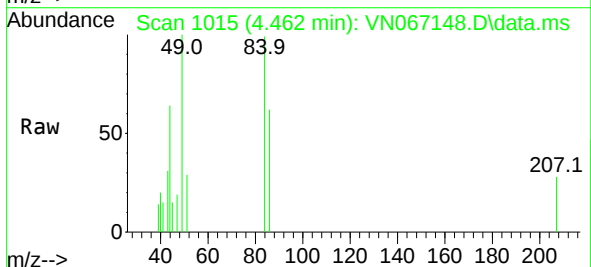


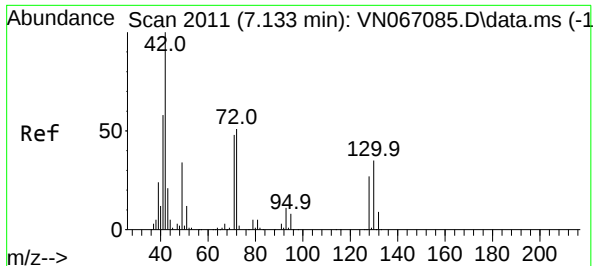
Tgt Ion: 43 Resp: 1615  
Ion Ratio Lower Upper  
43 100  
74 17.1 21.4 32.2#



#20  
Methylene Chloride  
Concen: 0.26 ug/l  
RT: 4.462 min Scan# 1015  
Delta R.T. -0.021 min  
Lab File: VN067148.D  
Acq: 19 May 2021 13:56

Tgt Ion: 84 Resp: 1148  
Ion Ratio Lower Upper  
84 100  
49 86.0 88.3 132.5#  
51 19.2 26.7 40.1#  
86 47.5 51.1 76.7#





#29

Tetrahydrofuran

Concen: 0.30 ug/l

RT: 7.138 min Scan# 2013

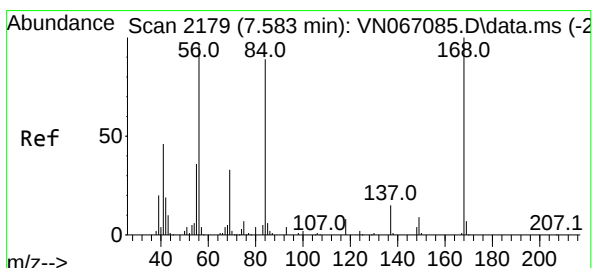
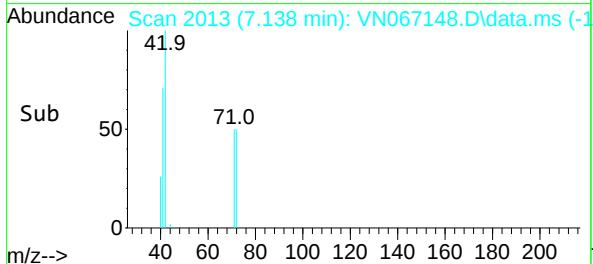
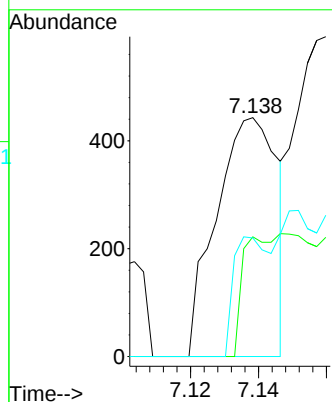
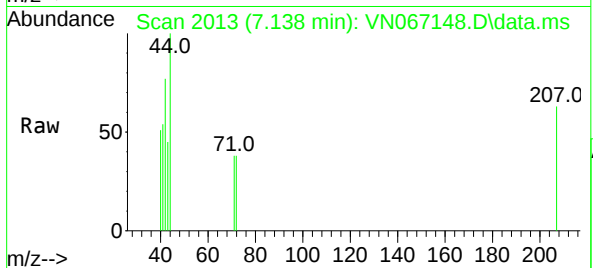
Delta R.T. 0.005 min

Lab File: VN067148.D

Acq: 19 May 2021 13:56

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 548   |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 0.0   | 40.1  | 60.1# |
| 71       | 29.9  | 37.9  | 56.9# |

Instrument :  
MSVOA\_N  
ClientSampled :



#31

Cyclohexane

Concen: 0.97 ug/l

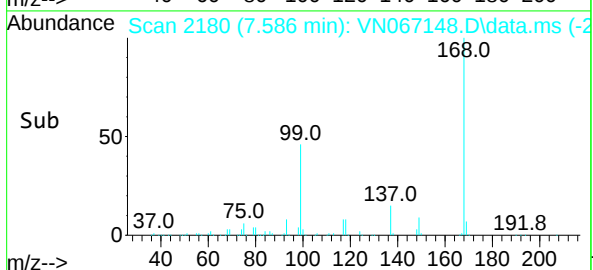
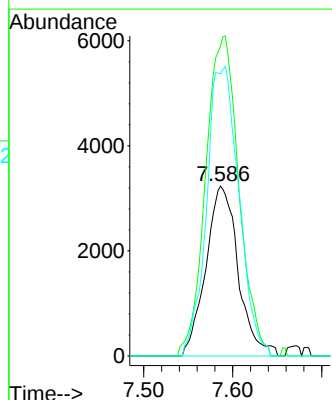
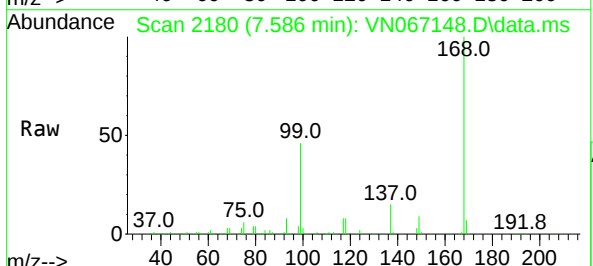
RT: 7.586 min Scan# 2180

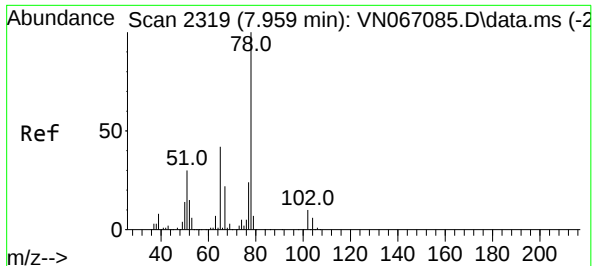
Delta R.T. 0.003 min

Lab File: VN067148.D

Acq: 19 May 2021 13:56

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 56    | Resp: | 8164   |
| Ion      | Ratio | Lower | Upper  |
| 56       | 100   |       |        |
| 69       | 182.4 | 28.0  | 42.0#  |
| 84       | 166.2 | 74.2  | 111.2# |





#33

1,2-Dichloroethane-d4

Concen: 44.61 ug/l

RT: 7.956 min Scan# 2318

Delta R.T. -0.003 min

Lab File: VN067148.D

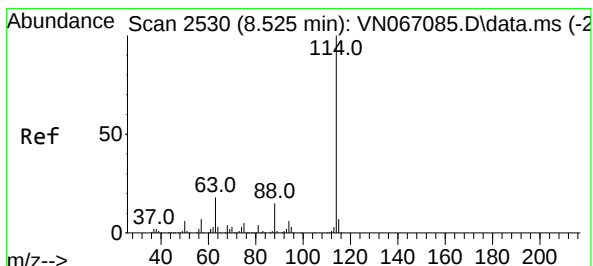
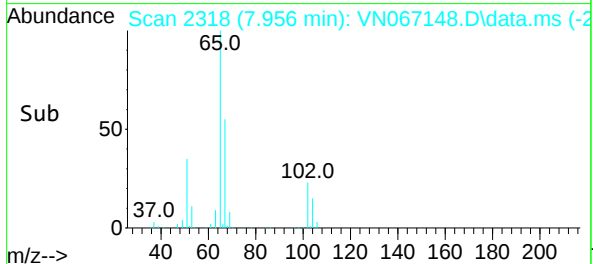
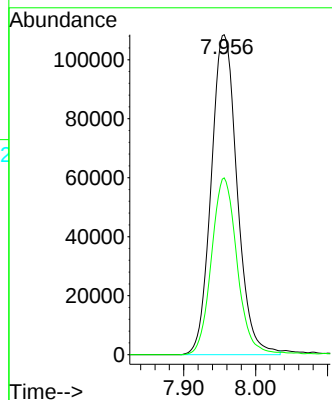
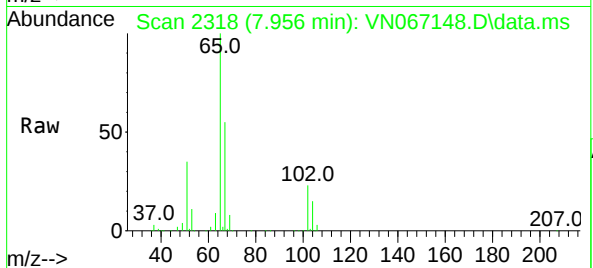
Acq: 19 May 2021 13:56

Tgt Ion: 65 Resp: 271752

Ion Ratio Lower Upper

65 100

67 54.7 0.0 110.4



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.520 min Scan# 2528

Delta R.T. -0.005 min

Lab File: VN067148.D

Acq: 19 May 2021 13:56

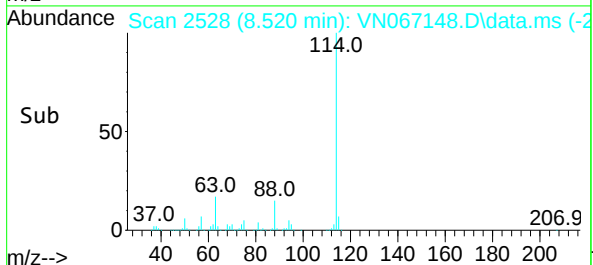
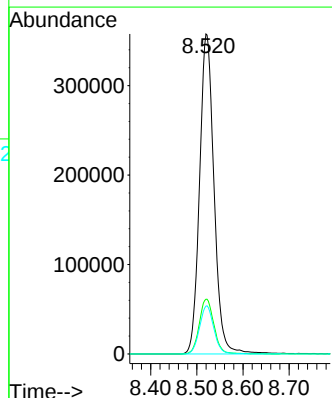
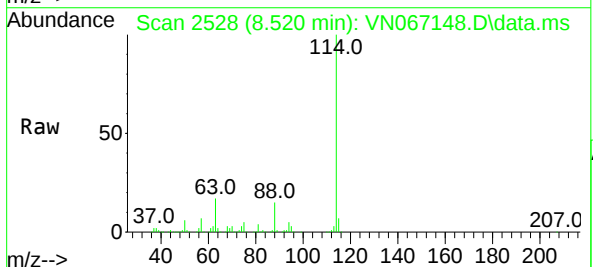
Tgt Ion: 114 Resp: 780898

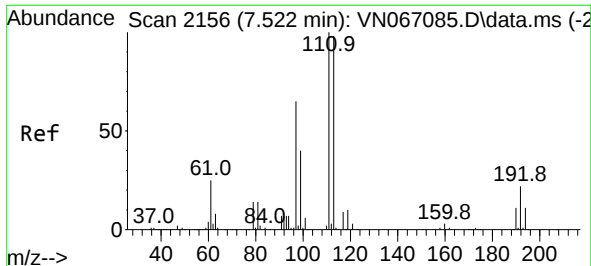
Ion Ratio Lower Upper

114 100

63 17.1 0.0 35.8

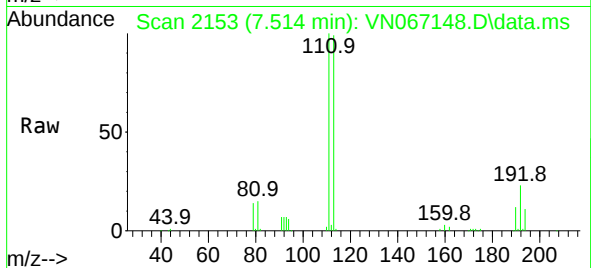
88 14.9 0.0 30.4



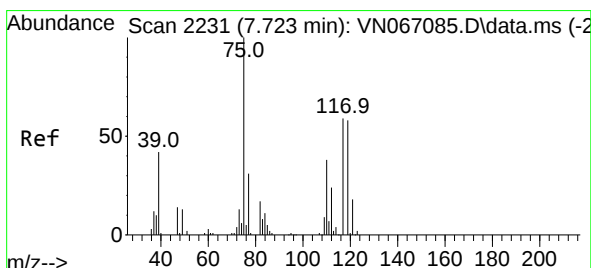
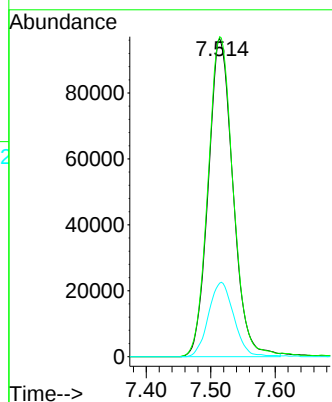
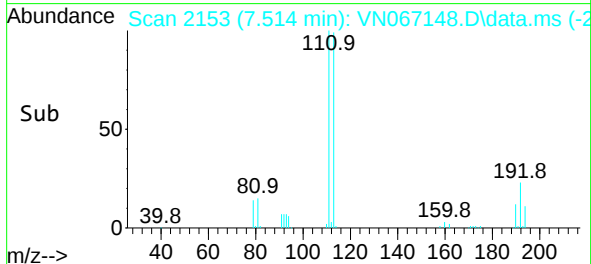


#35  
Dibromofluoromethane  
Concen: 50.13 ug/l  
RT: 7.514 min Scan# 2153  
Delta R.T. -0.008 min  
Lab File: VN067148.D  
Acq: 19 May 2021 13:56

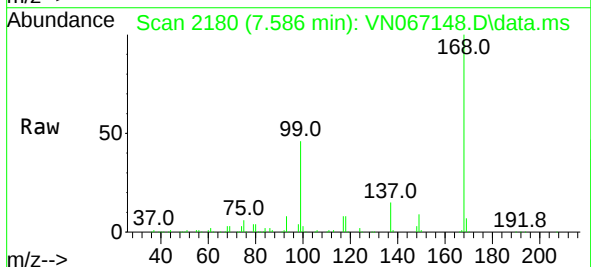
Instrument :  
MSVOA\_N  
ClientSampleId :



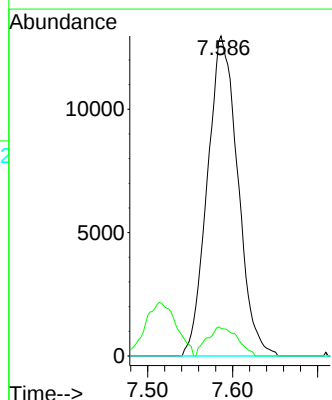
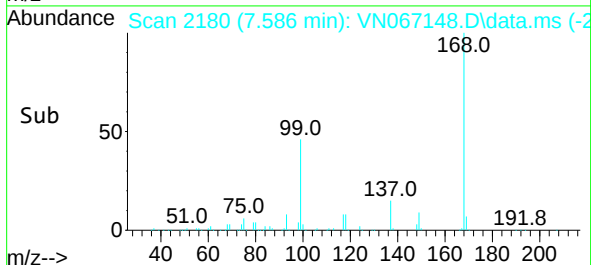
Tgt Ion:113 Resp: 257039  
Ion Ratio Lower Upper  
113 100  
111 102.9 82.6 124.0  
192 24.0 18.2 27.4

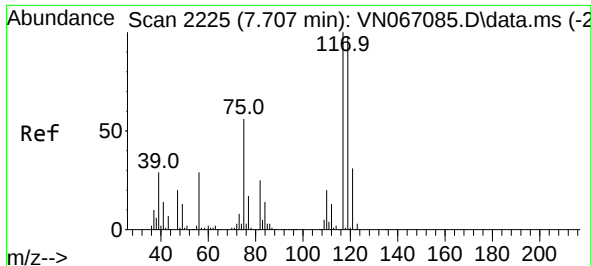


#36  
1,1-Dichloropropene  
Concen: 4.53 ug/l  
RT: 7.586 min Scan# 2180  
Delta R.T. -0.137 min  
Lab File: VN067148.D  
Acq: 19 May 2021 13:56



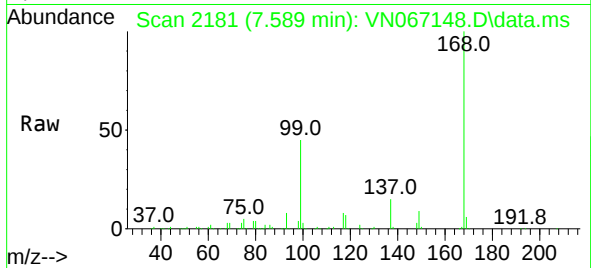
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Ion Ratio Lower Upper  
75 100  
110 8.9 19.1 57.3#  
77 0.0 24.8 37.2#



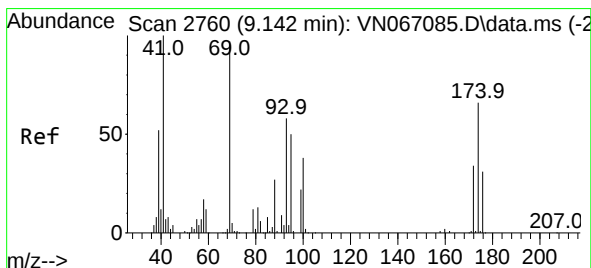
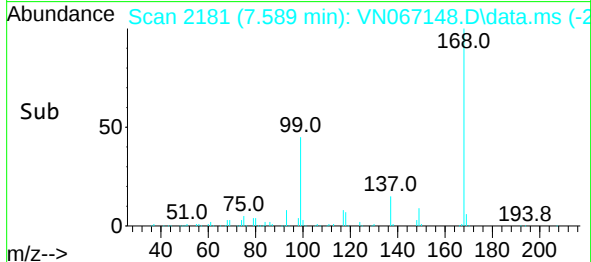
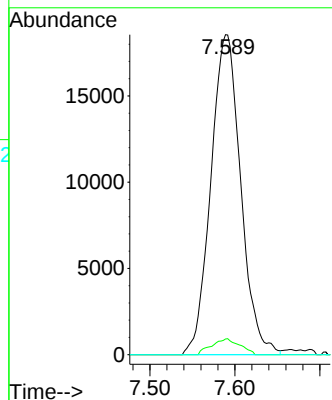


#38  
Carbon Tetrachloride  
Concen: 5.97 ug/l  
RT: 7.589 min Scan# 2181  
Delta R.T. -0.118 min  
Lab File: VN067148.D  
Acq: 19 May 2021 13:56

Instrument :  
MSVOA\_N  
ClientSampled :

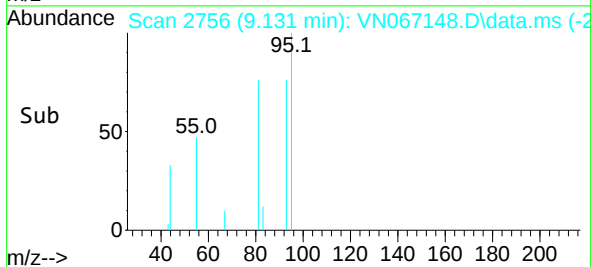
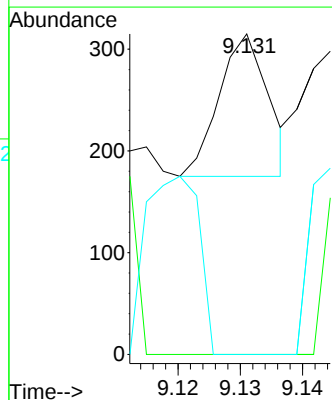
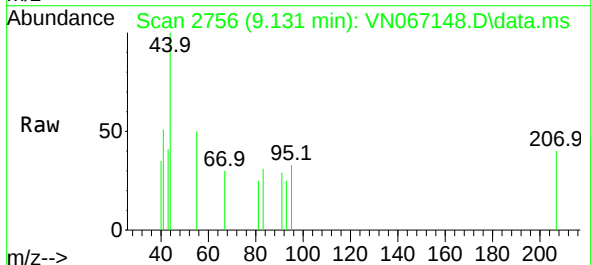


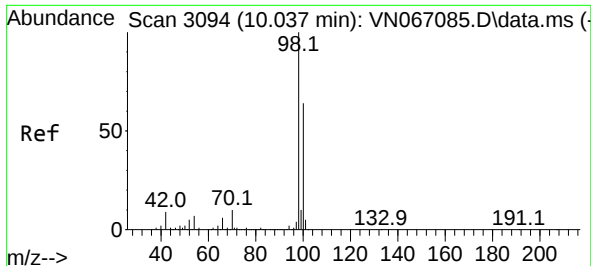
Tgt Ion: 117 Resp: 45287  
Ion Ratio Lower Upper  
117 100  
119 4.9 78.2 117.2#  
121 0.0 24.7 37.1#



#48  
Methyl methacrylate  
Concen: 1.96 ug/l  
RT: 9.131 min Scan# 2756  
Delta R.T. -0.011 min  
Lab File: VN067148.D  
Acq: 19 May 2021 13:56

Tgt Ion: 41 Resp: 77  
Ion Ratio Lower Upper  
41 100  
69 0.0 80.5 120.7#  
39 135.1 41.4 62.0#

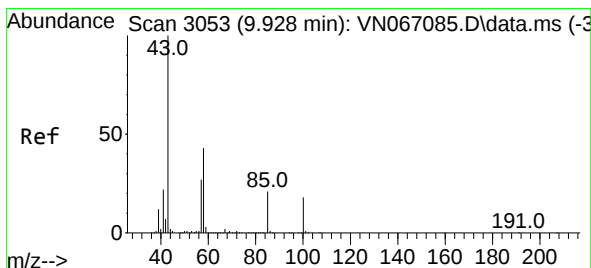
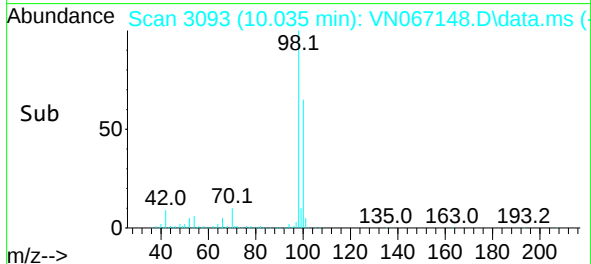
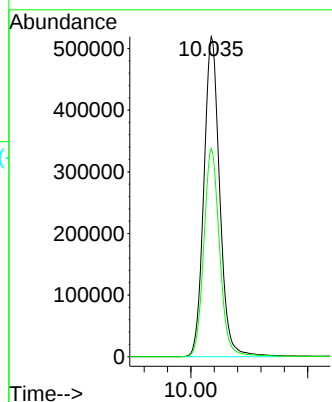
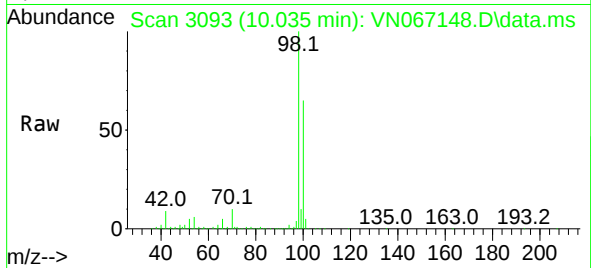




#50  
Toluene-d8  
Concen: 50.39 ug/l  
RT: 10.035 min Scan# 3093  
Delta R.T. -0.002 min  
Lab File: VN067148.D  
Acq: 19 May 2021 13:56

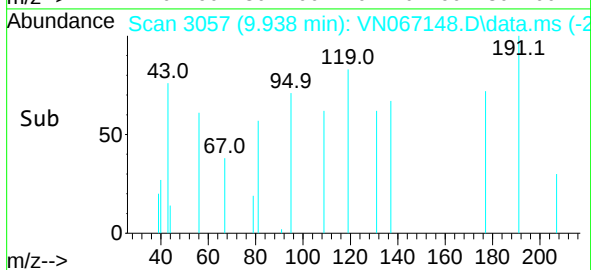
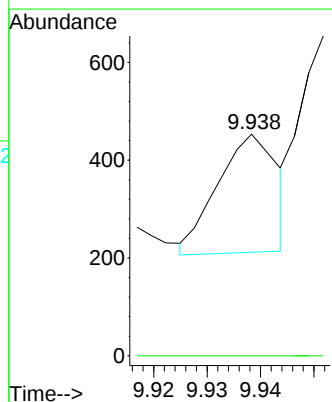
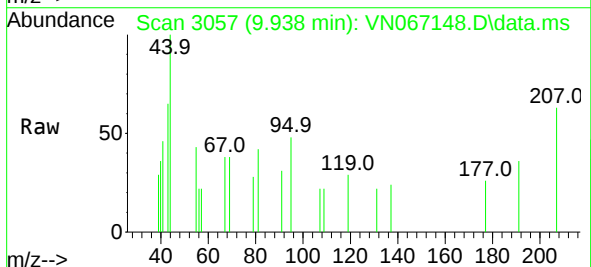
Instrument :  
MSVOA\_N  
ClientSampleId :

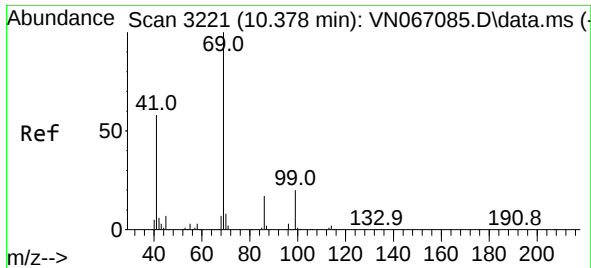
Tgt Ion: 98 Resp: 979244  
Ion Ratio Lower Upper  
98 100  
100 64.9 51.8 77.8



#51  
4-Methyl-2-Pentanone  
Concen: 5.43 ug/l  
RT: 9.938 min Scan# 3057  
Delta R.T. 0.010 min  
Lab File: VN067148.D  
Acq: 19 May 2021 13:56

Tgt Ion: 43 Resp: 186  
Ion Ratio Lower Upper  
43 100  
58 0.0 34.5 51.7#

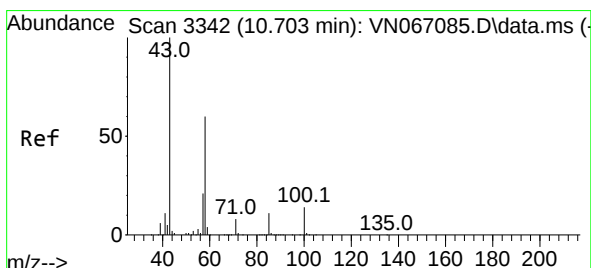
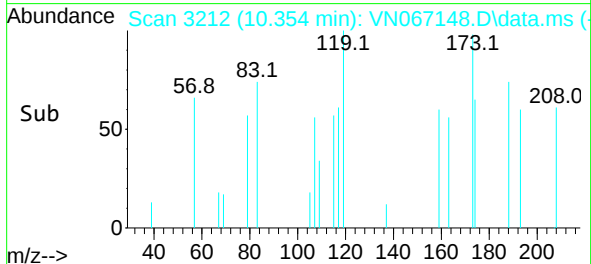
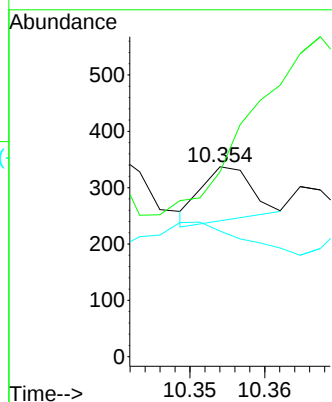
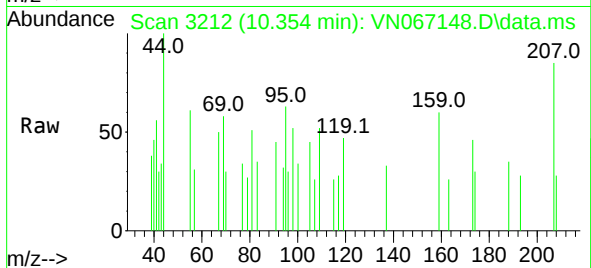




#56  
Ethyl methacrylate  
Concen: 1.95 ug/l  
RT: 10.354 min Scan# 3212  
Delta R.T. -0.024 min  
Lab File: VN067148.D  
Acq: 19 May 2021 13:56

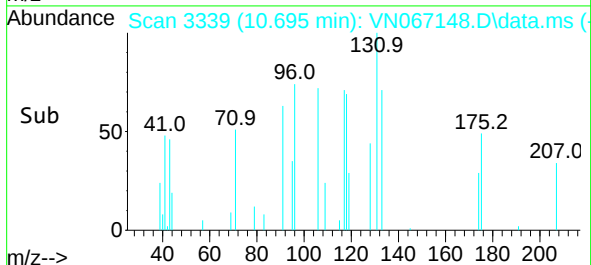
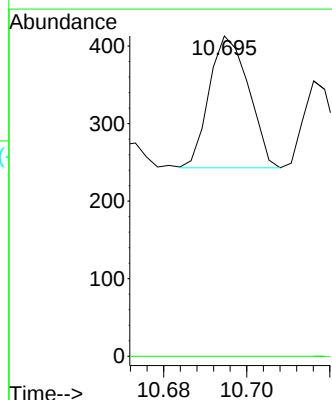
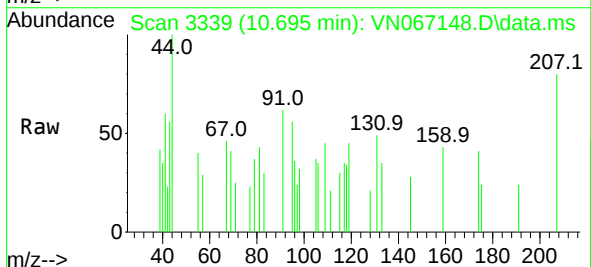
Instrument :  
MSVOA\_N  
ClientSampled :

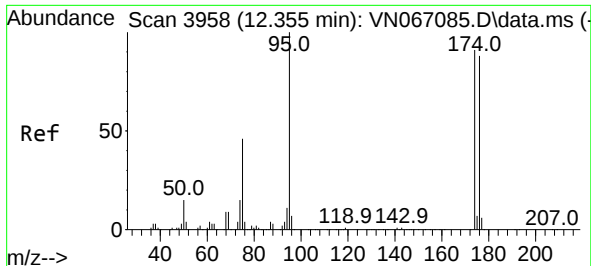
Tgt Ion: 69 Resp: 45  
Ion Ratio Lower Upper  
69 100  
41 793.3 45.5 68.3#  
39 0.0 22.9 34.3#



#59  
2-Hexanone  
Concen: 21.94 ug/l  
RT: 10.695 min Scan# 3339  
Delta R.T. -0.008 min  
Lab File: VN067148.D  
Acq: 19 May 2021 13:56

Tgt Ion: 43 Resp: 112  
Ion Ratio Lower Upper  
43 100  
58 0.0 29.8 89.5#

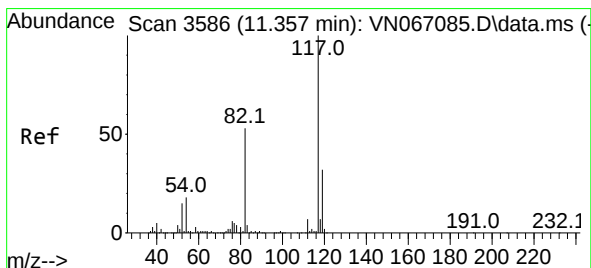
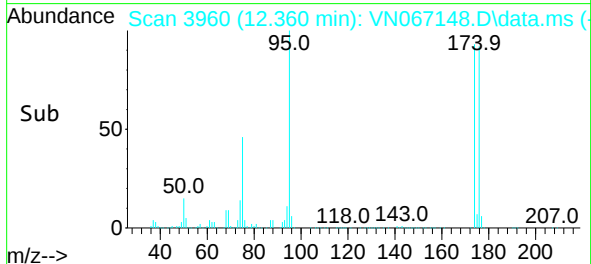
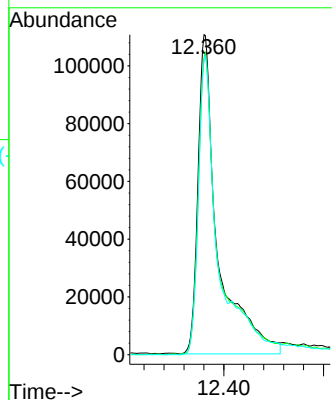
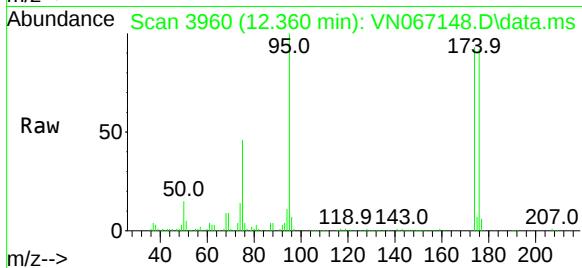




#62  
4-Bromofluorobenzene  
Concen: 47.16 ug/l  
RT: 12.360 min Scan# 3960  
Delta R.T. 0.005 min  
Lab File: VN067148.D  
Acq: 19 May 2021 13:56

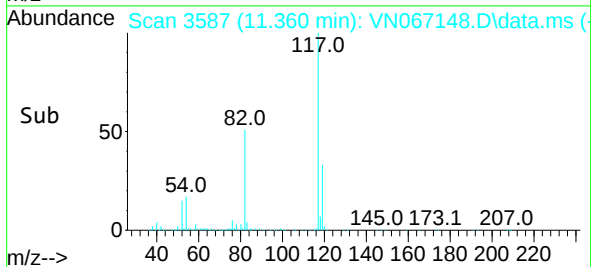
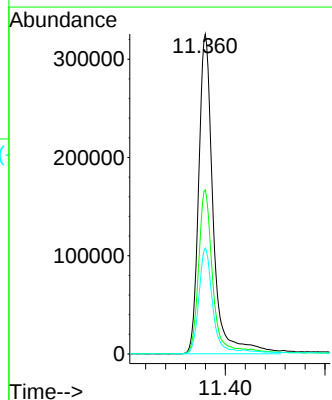
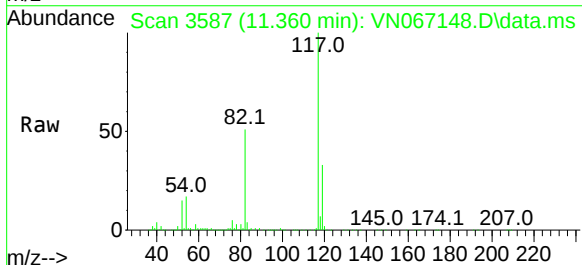
Instrument :  
MSVOA\_N  
ClientSampleId :

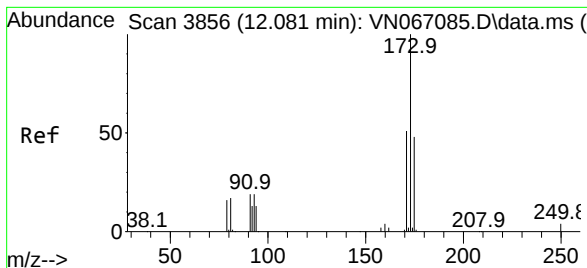
Tgt Ion: 95 Resp: 307016  
Ion Ratio Lower Upper  
95 100  
174 95.4 0.0 182.8  
176 73.3 0.0 176.6



#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.360 min Scan# 3587  
Delta R.T. 0.003 min  
Lab File: VN067148.D  
Acq: 19 May 2021 13:56

Tgt Ion: 117 Resp: 659879  
Ion Ratio Lower Upper  
117 100  
82 51.2 42.2 63.2  
119 33.0 25.8 38.6

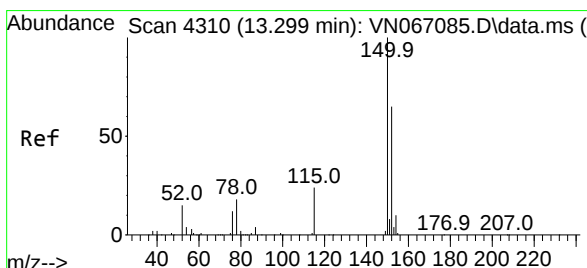
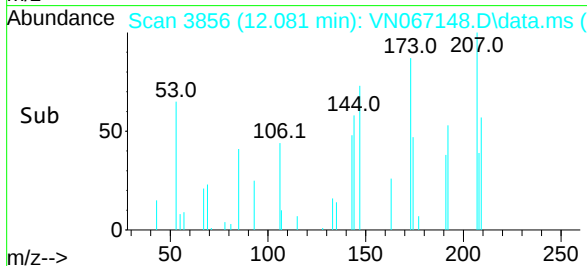
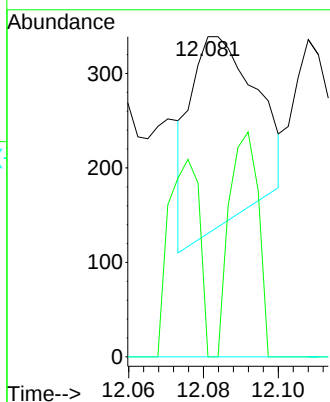
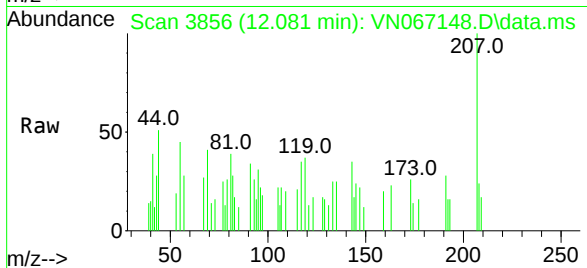




#71  
Bromoform  
Concen: 1.81 ug/l  
RT: 12.081 min Scan# 3856  
Delta R.T. 0.000 min  
Lab File: VN067148.D  
Acq: 19 May 2021 13:56

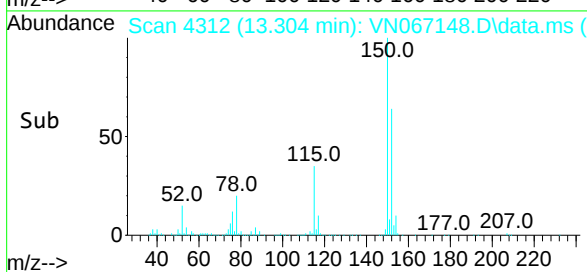
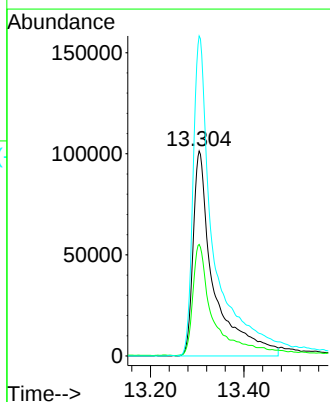
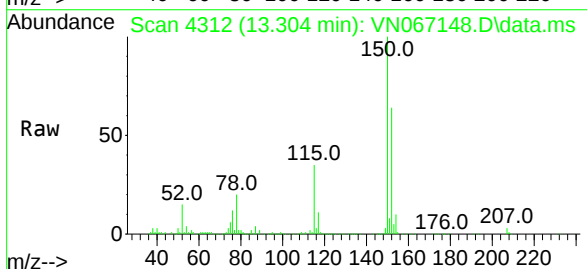
Instrument :  
MSVOA\_N  
ClientSampled :

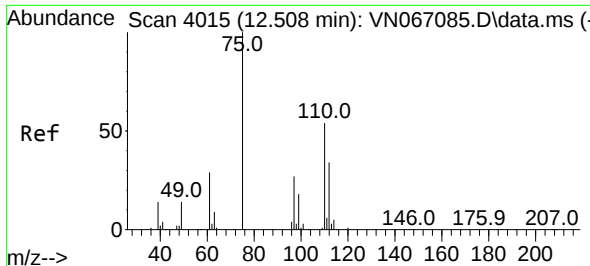
Tgt Ion:173 Resp: 243  
Ion Ratio Lower Upper  
173 100  
175 0.0 24.3 73.0#  
254 0.0 0.0 0.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.304 min Scan# 4312  
Delta R.T. 0.005 min  
Lab File: VN067148.D  
Acq: 19 May 2021 13:56

Tgt Ion:152 Resp: 311873  
Ion Ratio Lower Upper  
152 100  
115 51.1 27.0 80.8  
150 159.0 0.0 350.2

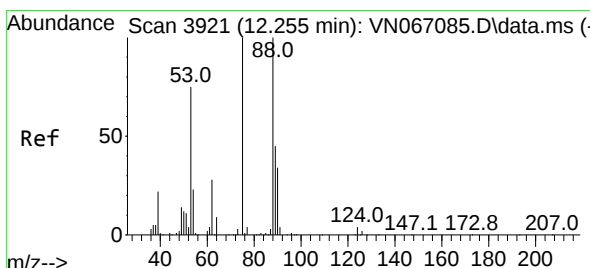
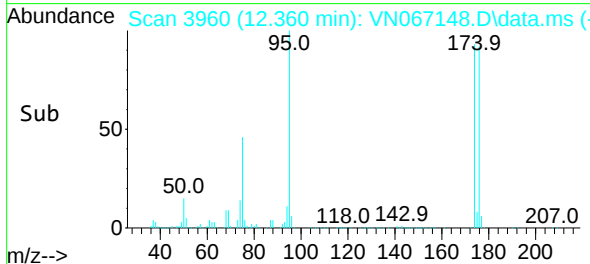
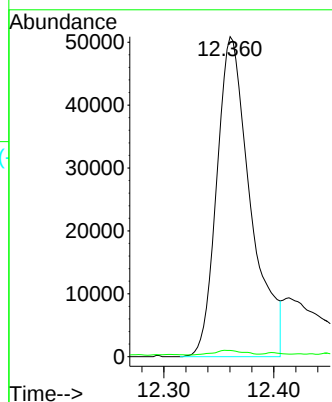
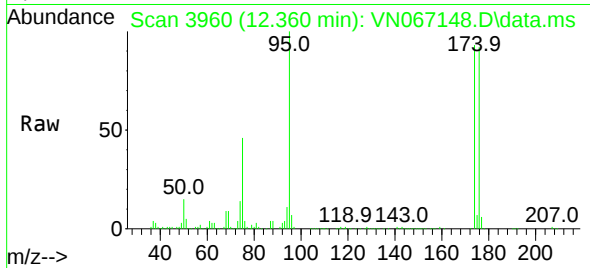




#76  
1,2,3-Trichloropropane  
Concen: 16.50 ug/l  
RT: 12.360 min Scan# 3960  
Delta R.T. -0.148 min  
Lab File: VN067148.D  
Acq: 19 May 2021 13:56

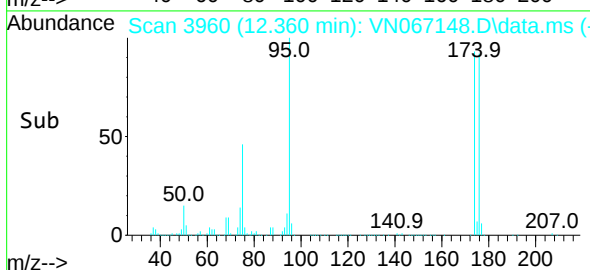
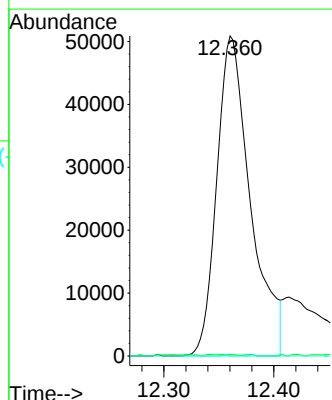
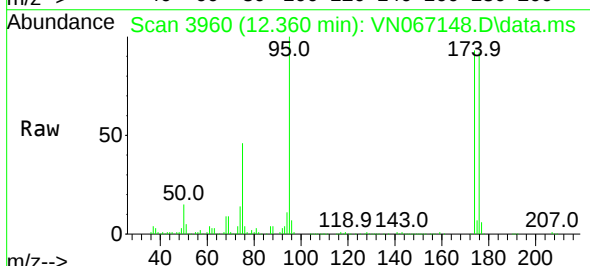
Instrument :  
MSVOA\_N  
ClientSampled :

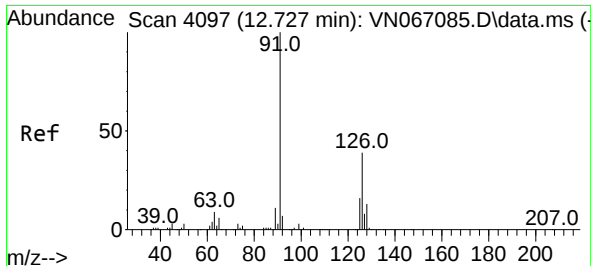
Tgt Ion: 75 Resp: 108591  
Ion Ratio Lower Upper  
75 100  
77 1.3 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 50.64 ug/l  
RT: 12.360 min Scan# 3960  
Delta R.T. 0.105 min  
Lab File: VN067148.D  
Acq: 19 May 2021 13:56

Tgt Ion: 75 Resp: 108591  
Ion Ratio Lower Upper  
75 100  
53 0.2 66.3 99.5#  
89 0.0 39.5 59.3#

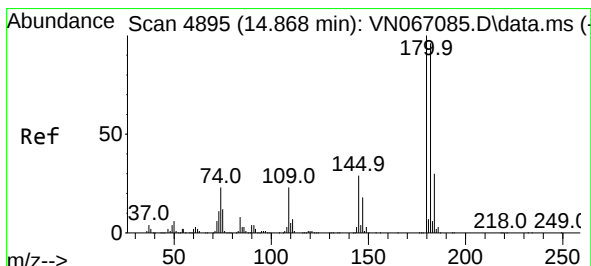
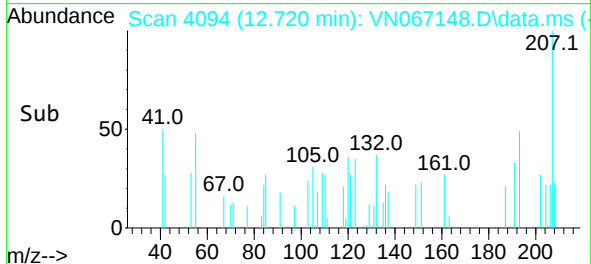
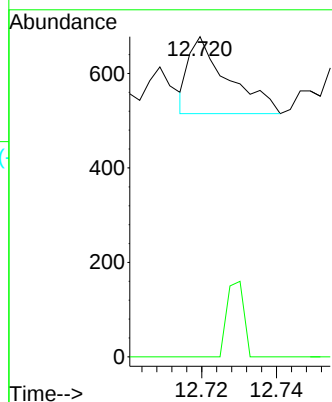
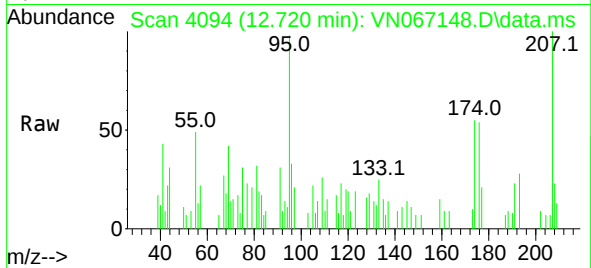




#82  
4-Chlorotoluene  
Concen: 1.19 ug/l  
RT: 12.720 min Scan# 4094  
Delta R.T. -0.007 min  
Lab File: VN067148.D  
Acq: 19 May 2021 13:56

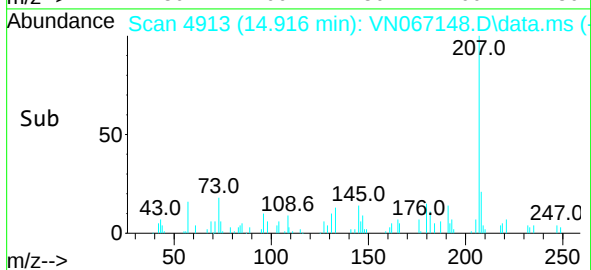
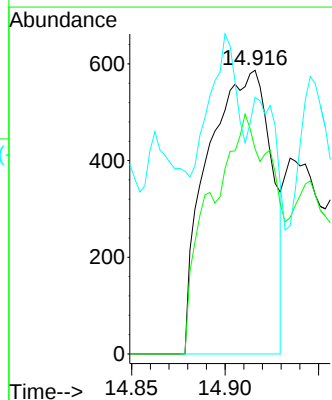
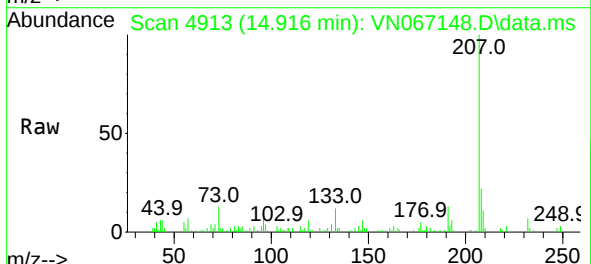
Instrument :  
MSVOA\_N  
ClientSampled :

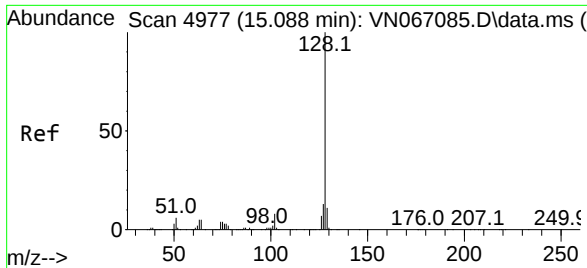
Tgt Ion: 91 Resp: 119  
Ion Ratio Lower Upper  
91 100  
126 42.0 17.7 53.1



#93  
1,2,4-Trichlorobenzene  
Concen: 0.25 ug/l  
RT: 14.916 min Scan# 4913  
Delta R.T. 0.048 min  
Lab File: VN067148.D  
Acq: 19 May 2021 13:56

Tgt Ion:180 Resp: 1392  
Ion Ratio Lower Upper  
180 100  
182 83.7 47.3 141.8  
145 18.8 14.0 42.0

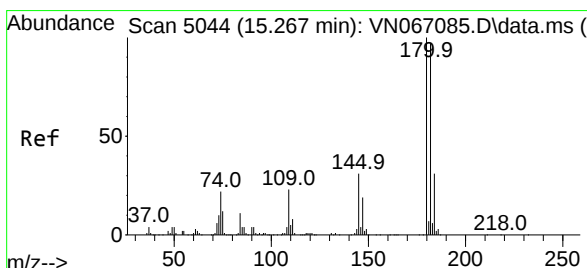
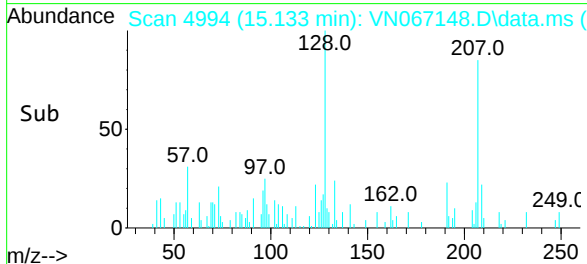
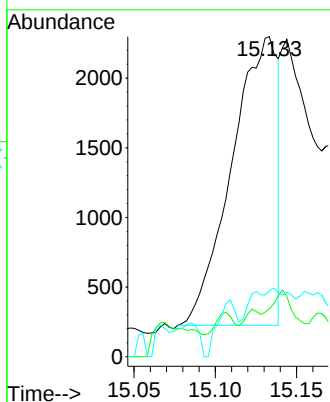
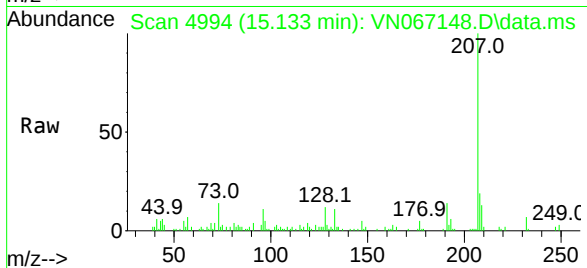




#95  
Naphthalene  
Concen: 3.54 ug/l  
RT: 15.133 min Scan# 4994  
Delta R.T. 0.045 min  
Lab File: VN067148.D  
Acq: 19 May 2021 13:56

Instrument :  
MSVOA\_N  
ClientSampleId :

Tgt Ion:128 Resp: 4036  
Ion Ratio Lower Upper  
128 100  
127 10.7 10.2 15.2  
129 0.0 8.6 13.0#



#96  
1,2,3-Trichlorobenzene  
Concen: 0.58 ug/l  
RT: 15.289 min Scan# 5052  
Delta R.T. 0.022 min  
Lab File: VN067148.D  
Acq: 19 May 2021 13:56

Tgt Ion:180 Resp: 2976  
Ion Ratio Lower Upper  
180 100  
182 36.1 48.5 145.6#  
145 0.0 15.4 46.2#

