

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090321\  
 Data File : VN068411.D  
 Acq On : 3 Sep 2021 16:45  
 Operator : JC/MD  
 Sample : M3644-05  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Sep 04 03:12:35 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N090321W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Sep 03 13:24:01 2021  
 Response via : Initial Calibration

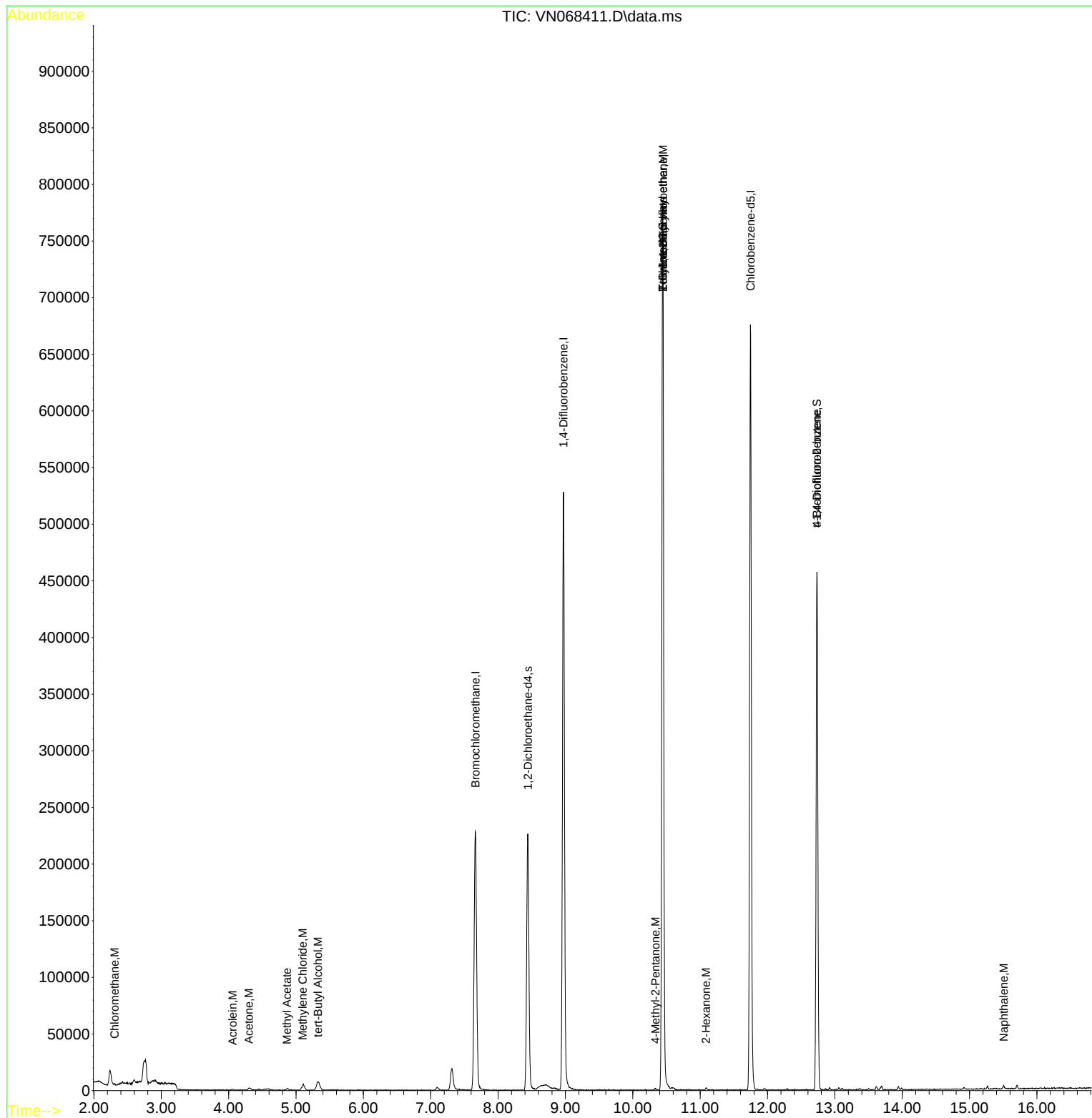
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min)  |
|-------------------------------|--------|-------|----------|----------|--------|-----------|
| -----                         |        |       |          |          |        |           |
| Internal Standards            |        |       |          |          |        |           |
| 1) Bromochloromethane         | 7.665  | 128   | 96116    | 30.000   | ug/l   | 0.00      |
| 28) 1,4-Difluorobenzene       | 8.971  | 114   | 500857   | 30.000   | ug/l   | # 0.00    |
| 57) Chlorobenzene-d5          | 11.749 | 117   | 427792   | 30.000   | ug/l   | # 0.00    |
|                               |        |       |          |          |        |           |
| System Monitoring Compounds   |        |       |          |          |        |           |
| 27) 1,2-Dichloroethane-d4     | 8.442  | 65    | 192155   | 33.721   | ug/l   | 0.00      |
| Spiked Amount                 | 30.000 | Range | 91 - 110 | Recovery | =      | 112.400%# |
| 60) 4-Bromofluorobenzene      | 12.733 | 95    | 159469   | 26.323   | ug/l   | 0.00      |
| Spiked Amount                 | 30.000 | Range | 63 - 112 | Recovery | =      | 87.733%   |
| 63) Toluene-d8                | 10.446 | 98    | 592665   | 31.110   | ug/l   | 0.00      |
| Spiked Amount                 | 30.000 | Range | 91 - 112 | Recovery | =      | 103.700%  |
|                               |        |       |          |          |        |           |
| Target Compounds              |        |       |          |          |        |           |
|                               |        |       |          |          | Qvalue |           |
| 3) Chloromethane              | 2.309  | 50    | 1530     | 0.347    | ug/l   | 93        |
| 12) Methyl Acetate            | 4.867  | 43    | 1300     | 0.269    | ug/l   | # 85      |
| 13) Acrolein                  | 4.060  | 56    | 757      | 1.750    | ug/l   | # 22      |
| 15) Acetone                   | 4.299  | 58    | 283      | 0.492    | ug/l   | # 1       |
| 18) Methylene Chloride        | 5.101  | 84    | 1761     | 0.336    | ug/l   | # 82      |
| 23) tert-Butyl Alcohol        | 5.326  | 59    | 4744     | 6.605    | ug/l   | # 100     |
| 50) 1,1,2-Trichloroethane     | 10.451 | 97    | 21290    | 3.788    | ug/l   | # 1       |
| 51) Ethyl methacrylate        | 10.448 | 69    | 1904     | 0.263    | ug/l   | # 88      |
| 55) 2-Chloroethyl vinyl ether | 10.446 | 63    | 435      | 46.701   | ug/l   | # 1       |
| 58) 4-Methyl-2-Pentanone      | 10.339 | 43    | 1313     | 0.264    | ug/l   | # 55      |
| 59) 2-Hexanone                | 11.087 | 43    | 1541     | 0.446    | ug/l   | # 75      |
| 77) t-1,4-Dichloro-2-butene   | 12.733 | 75    | 83094    | 50.581   | ug/l   | # 6       |
| 91) Naphthalene               | 15.507 | 128   | 3332     | 0.244    | ug/l   | # 76      |
| -----                         |        |       |          |          |        |           |

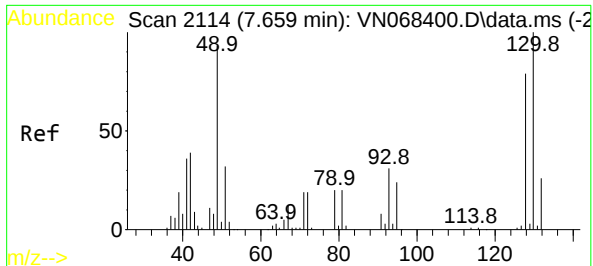
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Fri Sep 03 13:24:01 2021  
Response via : Initial Calibration

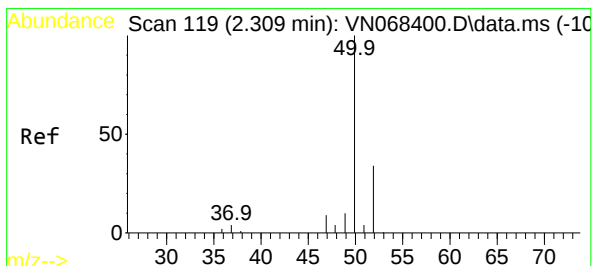
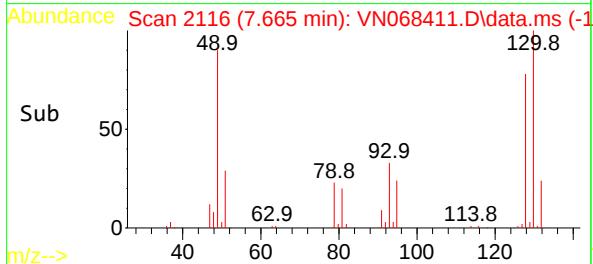
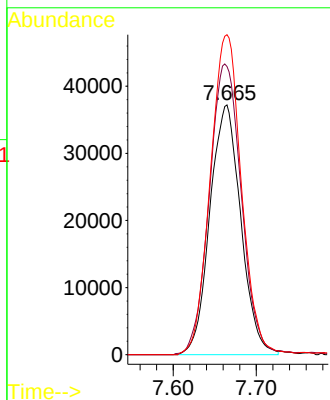
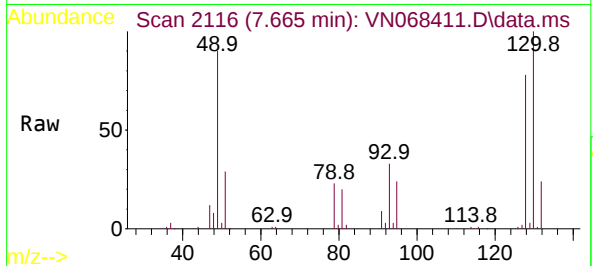




#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.665 min Scan# 2116  
Delta R.T. 0.006 min  
Lab File: VN068411.D  
Acq: 3 Sep 2021 16:45

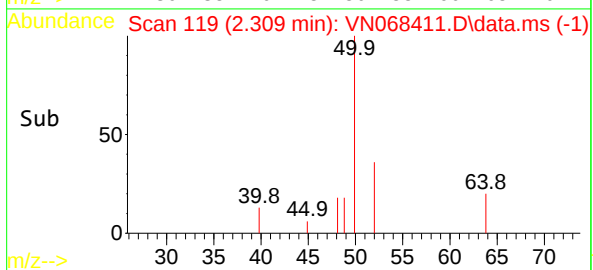
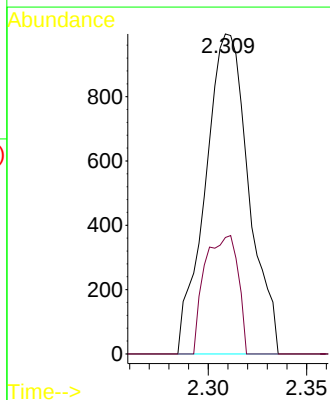
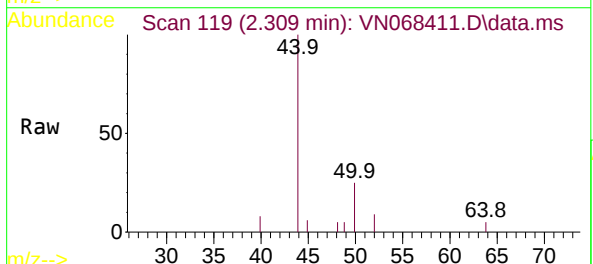
Instrument :  
MSVOA\_N  
ClientSampleId :

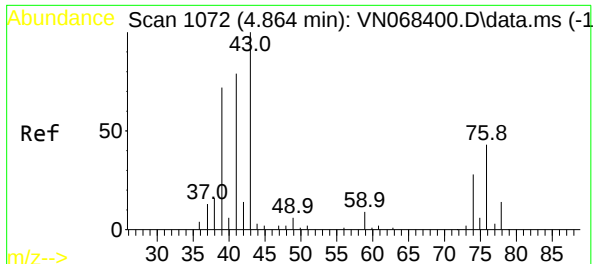
Tgt Ion:128 Resp: 96116  
Ion Ratio Lower Upper  
128 100  
49 120.6 0.0 517.5  
130 129.0 0.0 325.8



#3  
Chloromethane  
Concen: 0.347 ug/l  
RT: 2.309 min Scan# 119  
Delta R.T. 0.000 min  
Lab File: VN068411.D  
Acq: 3 Sep 2021 16:45

Tgt Ion: 50 Resp: 1530  
Ion Ratio Lower Upper  
50 100  
52 36.4 26.0 39.0





#12

Methyl Acetate

Concen: 0.269 ug/l

RT: 4.867 min Scan# 1073

Delta R.T. 0.003 min

Lab File: VN068411.D

Acq: 3 Sep 2021 16:45

Tgt Ion: 43 Resp: 1300

Ion Ratio Lower Upper

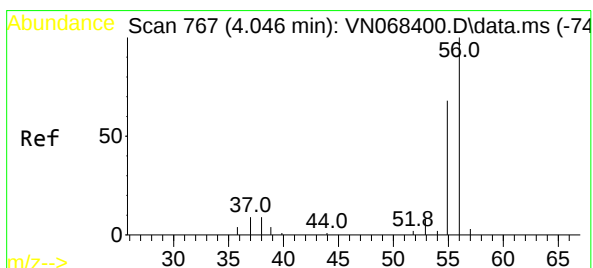
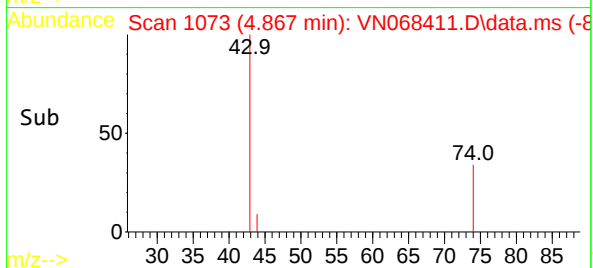
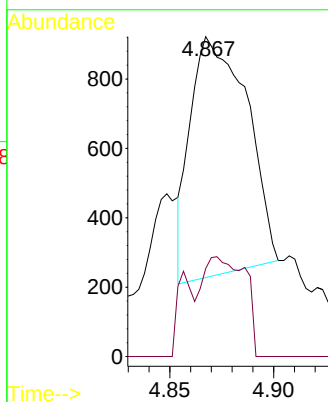
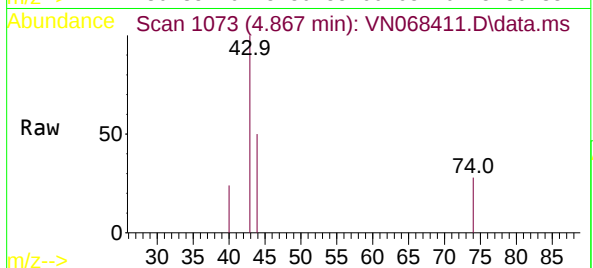
43 100

74 27.6 16.6 25.0#

Instrument :

MSVOA\_N

ClientSampleId :



#13

Acrolein

Concen: 1.750 ug/l

RT: 4.060 min Scan# 772

Delta R.T. 0.014 min

Lab File: VN068411.D

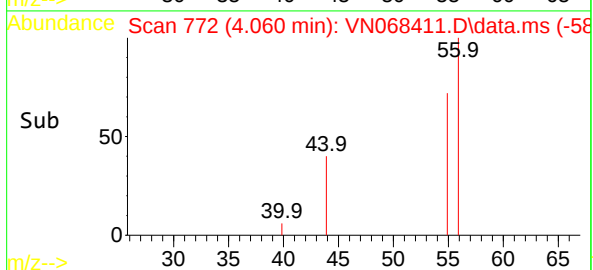
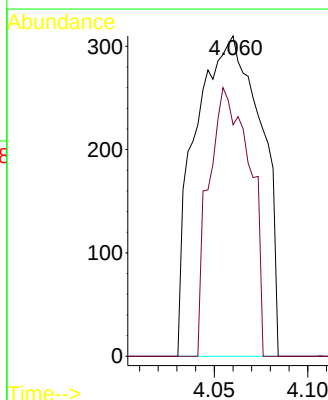
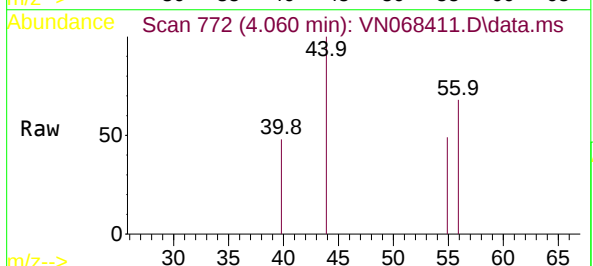
Acq: 3 Sep 2021 16:45

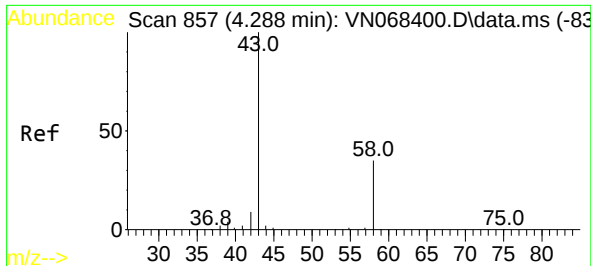
Tgt Ion: 56 Resp: 757

Ion Ratio Lower Upper

56 100

55 7.3 57.5 86.3#

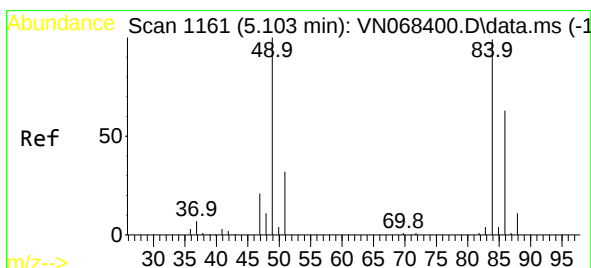
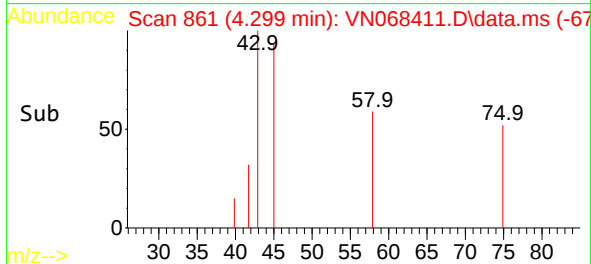
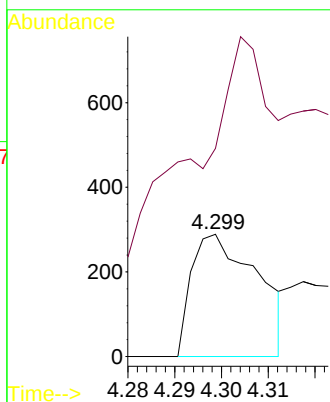
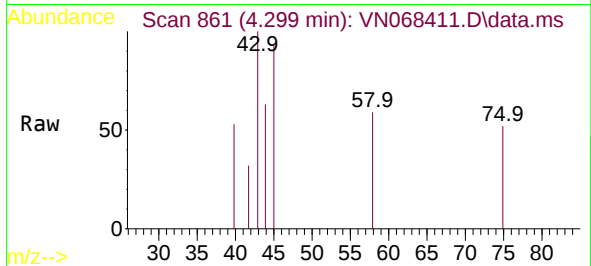




#15  
Acetone  
Concen: 0.492 ug/l  
RT: 4.299 min Scan# 861  
Delta R.T. 0.011 min  
Lab File: VN068411.D  
Acq: 3 Sep 2021 16:45

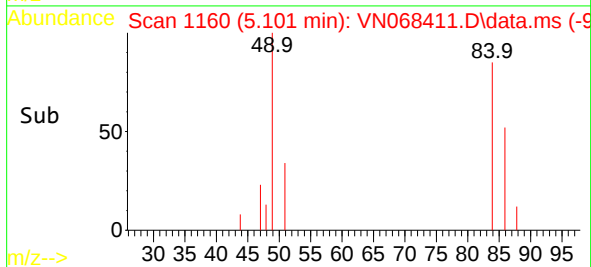
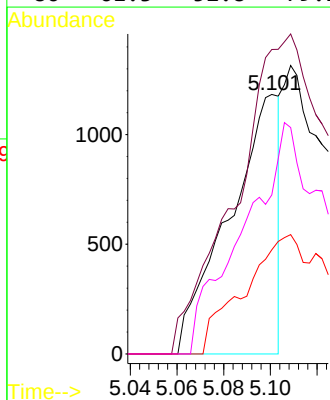
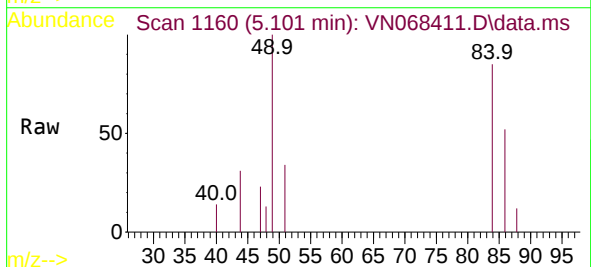
Instrument :  
MSVOA\_N  
ClientSampleId :

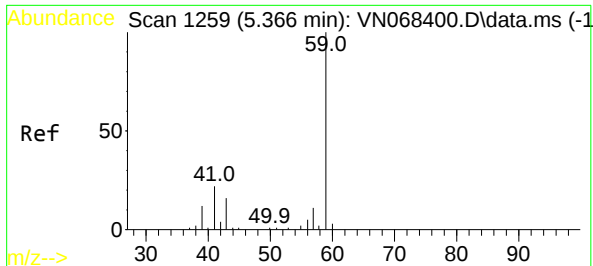
Tgt Ion: 58 Resp: 283  
Ion Ratio Lower Upper  
58 100  
43 11.1 289.6 434.4#



#18  
Methylene Chloride  
Concen: 0.336 ug/l  
RT: 5.101 min Scan# 1160  
Delta R.T. -0.003 min  
Lab File: VN068411.D  
Acq: 3 Sep 2021 16:45

Tgt Ion: 84 Resp: 1761  
Ion Ratio Lower Upper  
84 100  
49 103.5 110.9 166.3#  
51 40.2 31.2 46.8  
86 61.3 52.8 79.2



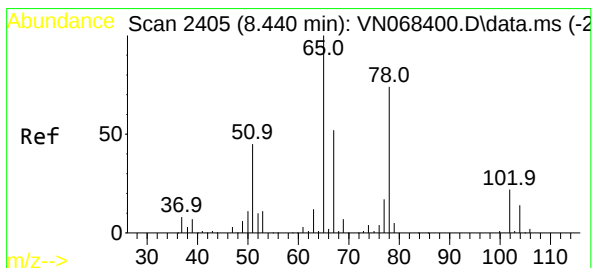
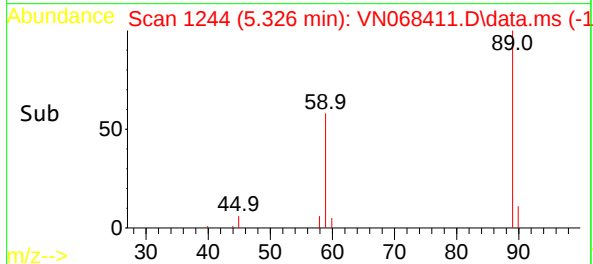
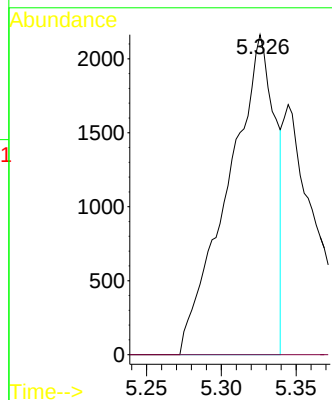
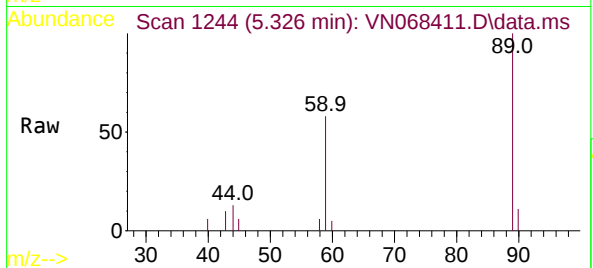


#23

tert-Butyl Alcohol  
Concen: 6.605 ug/l  
RT: 5.326 min Scan# 1244  
Delta R.T. -0.040 min  
Lab File: VN068411.D  
Acq: 3 Sep 2021 16:45

Instrument :  
MSVOA\_N  
ClientSampled :

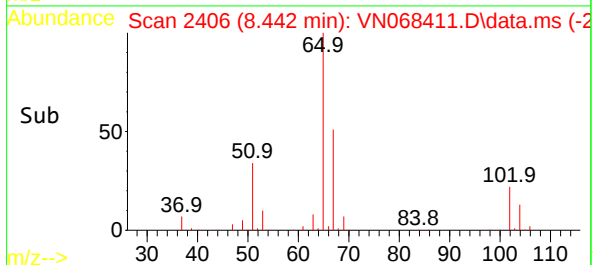
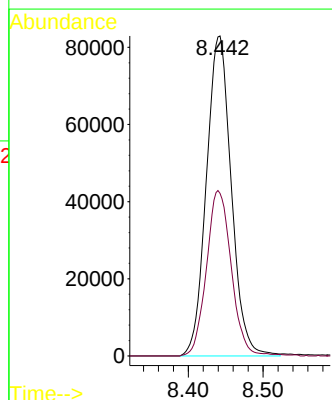
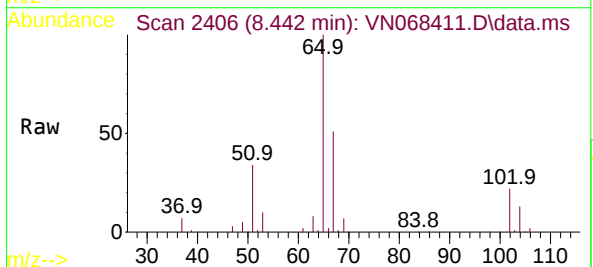
Tgt Ion: 59 Resp: 4744  
Ion Ratio Lower Upper  
59 100  
52 0.0 0.1 0.1#

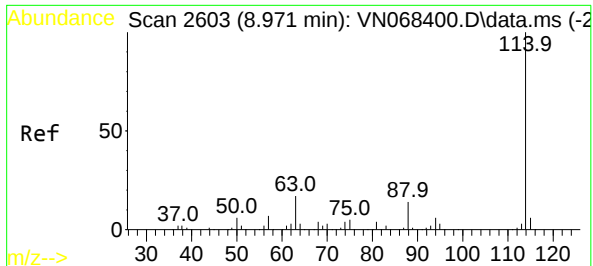


#27

1,2-Dichloroethane-d4  
Concen: 33.721 ug/l  
RT: 8.442 min Scan# 2406  
Delta R.T. 0.003 min  
Lab File: VN068411.D  
Acq: 3 Sep 2021 16:45

Tgt Ion: 65 Resp: 192155  
Ion Ratio Lower Upper  
65 100  
67 51.1 39.8 59.8

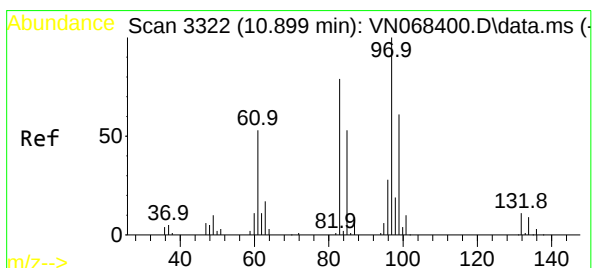
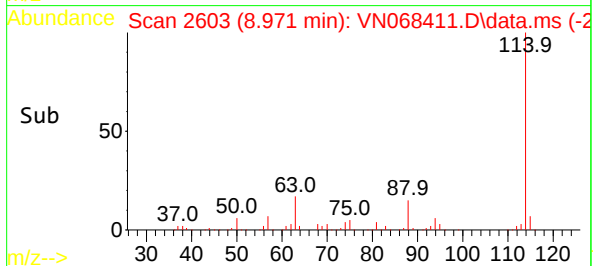
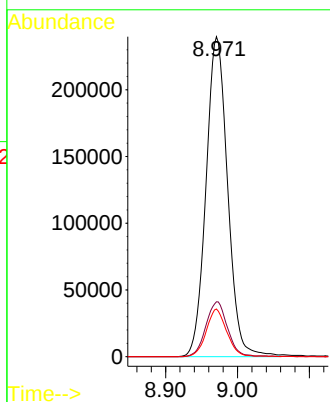
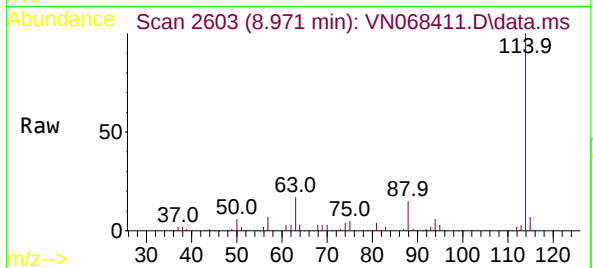




#28  
1,4-Difluorobenzene  
Concen: 30.000 ug/l  
RT: 8.971 min Scan# 2603  
Delta R.T. 0.000 min  
Lab File: VN068411.D  
Acq: 3 Sep 2021 16:45

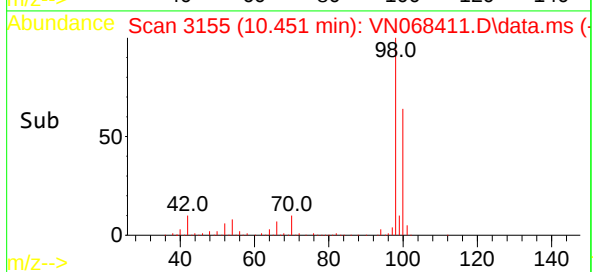
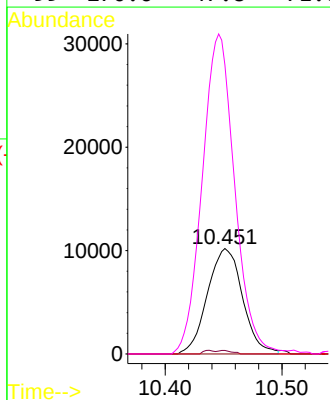
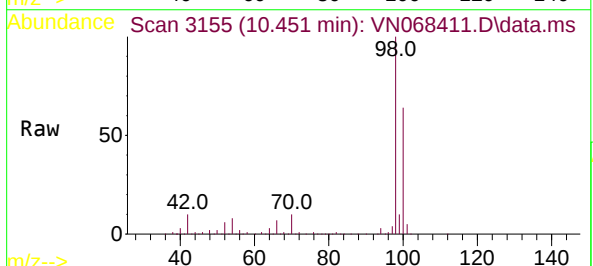
Instrument :  
MSVOA\_N  
ClientSampled :

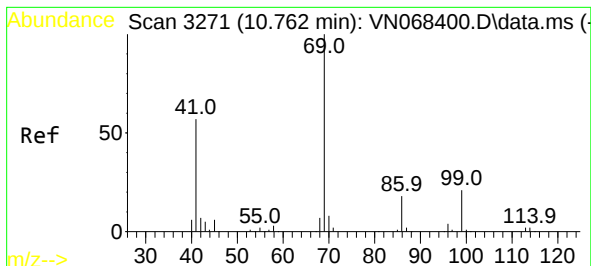
Tgt Ion:114 Resp: 500857  
Ion Ratio Lower Upper  
114 100  
63 17.1 20.3 30.5#  
88 14.1 14.6 22.0#



#50  
1,1,2-Trichloroethane  
Concen: 3.788 ug/l  
RT: 10.451 min Scan# 3155  
Delta R.T. -0.448 min  
Lab File: VN068411.D  
Acq: 3 Sep 2021 16:45

Tgt Ion: 97 Resp: 21290  
Ion Ratio Lower Upper  
97 100  
83 3.4 69.6 104.4#  
85 0.0 45.2 67.8#  
99 270.6 47.8 71.6#

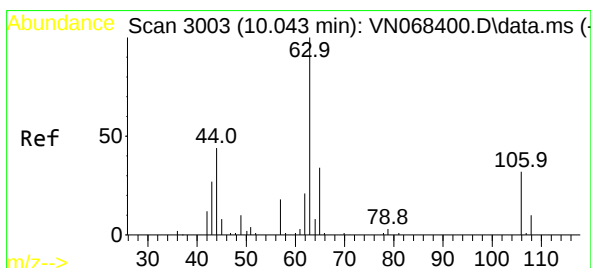
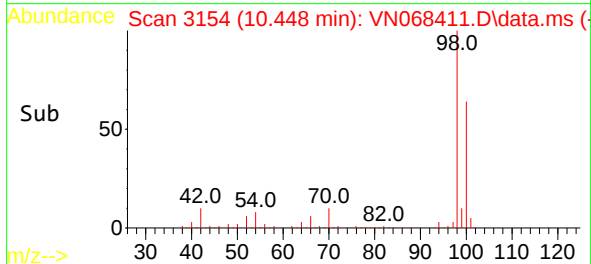
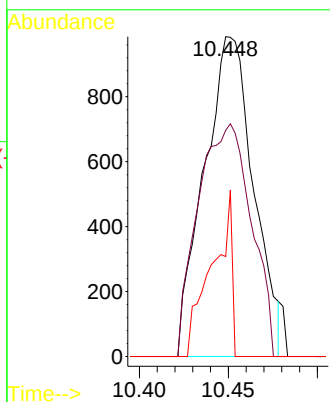
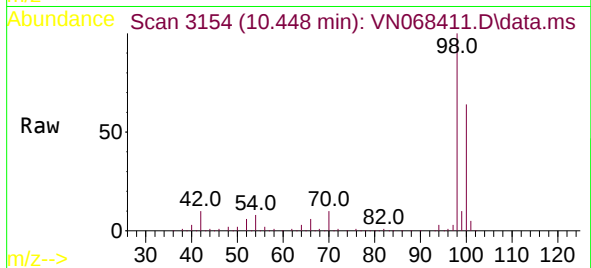




#51  
Ethyl methacrylate  
Concen: 0.263 ug/l  
RT: 10.448 min Scan# 3154  
Delta R.T. -0.314 min  
Lab File: VN068411.D  
Acq: 3 Sep 2021 16:45

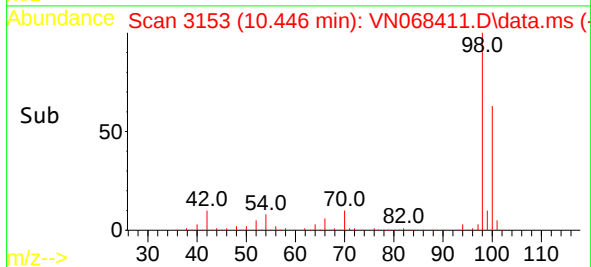
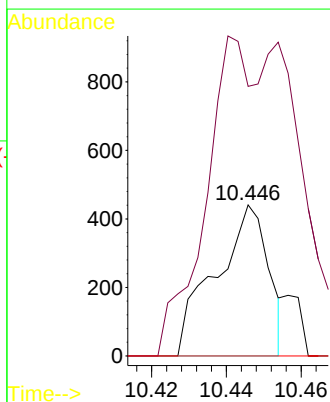
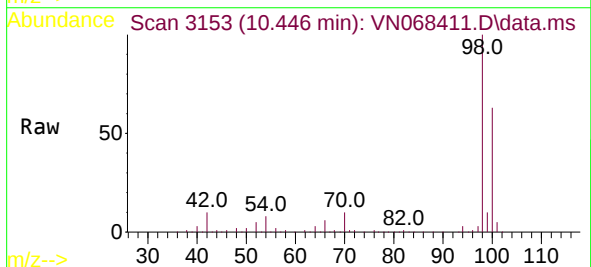
Instrument :  
MSVOA\_N  
ClientSampleId :

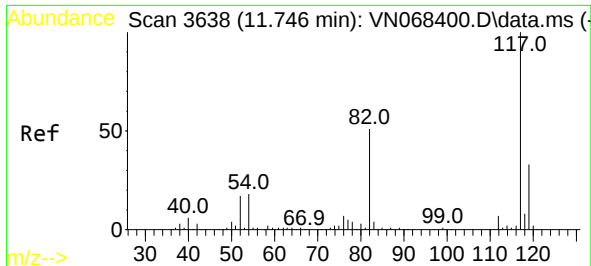
Tgt Ion: 69 Resp: 1904  
Ion Ratio Lower Upper  
69 100  
41 70.8 36.8 110.4  
39 31.3 23.8 71.2



#55  
2-Chloroethyl vinyl ether  
Concen: 46.701 ug/l  
RT: 10.446 min Scan# 3153  
Delta R.T. 0.403 min  
Lab File: VN068411.D  
Acq: 3 Sep 2021 16:45

Tgt Ion: 63 Resp: 435  
Ion Ratio Lower Upper  
63 100  
65 173.3 25.6 38.4#  
106 0.0 20.0 30.0#

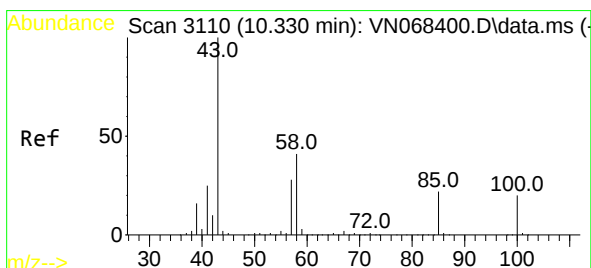
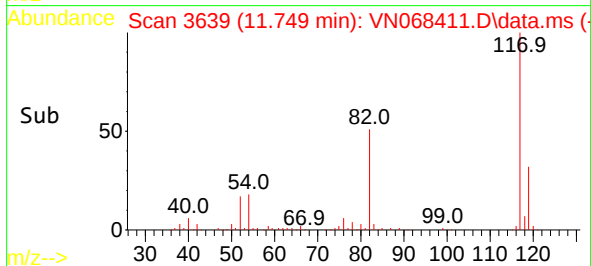
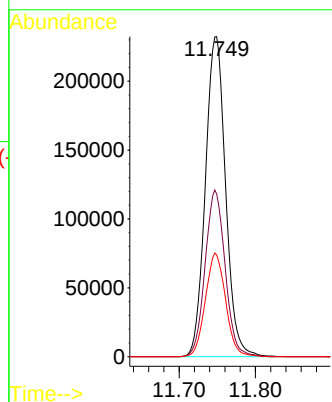
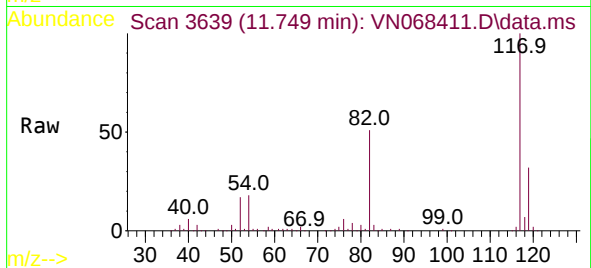




#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.749 min Scan# 3639  
Delta R.T. 0.003 min  
Lab File: VN068411.D  
Acq: 3 Sep 2021 16:45

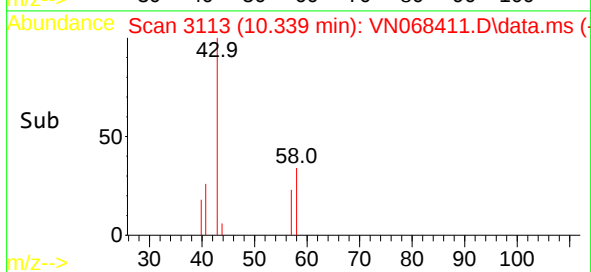
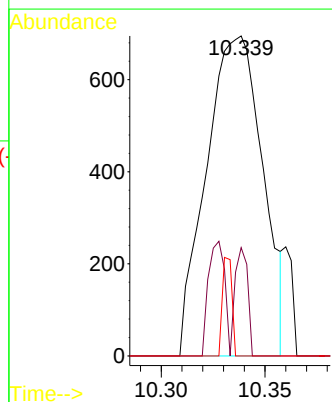
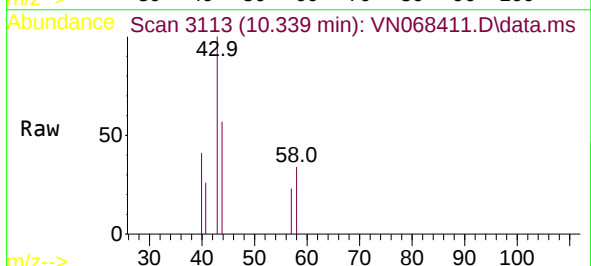
Instrument :  
MSVOA\_N  
ClientSampleId :

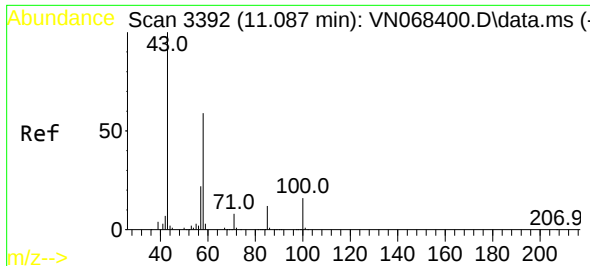
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Ion Ratio Lower Upper  
117 100  
82 51.6 52.5 78.7#  
119 32.4 25.8 38.8



#58  
4-Methyl-2-Pentanone  
Concen: 0.264 ug/l  
RT: 10.339 min Scan# 3113  
Delta R.T. 0.008 min  
Lab File: VN068411.D  
Acq: 3 Sep 2021 16:45

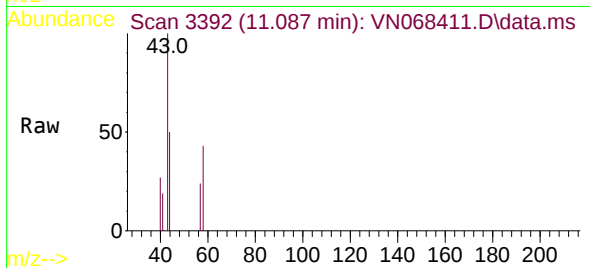
Tgt Ion: 43 Resp: 1313  
Ion Ratio Lower Upper  
43 100  
58 7.5 29.0 43.4#  
85 0.0 13.2 19.8#



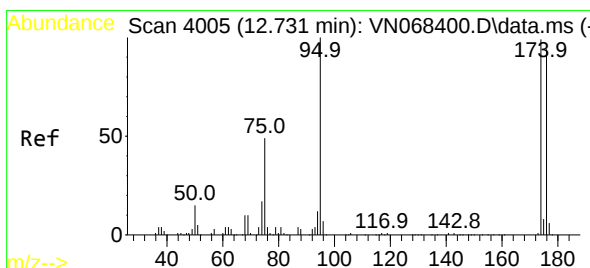
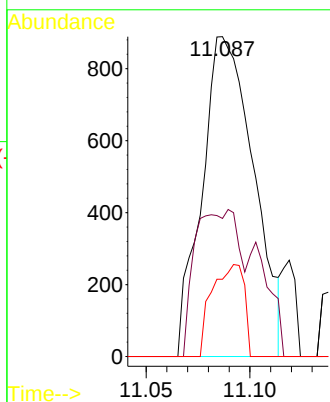
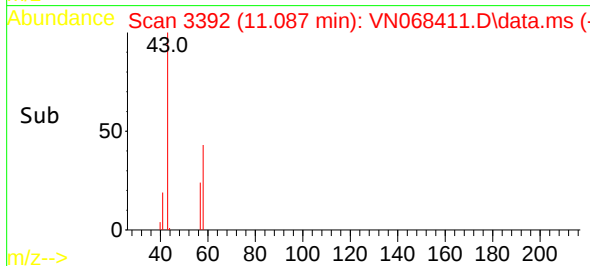


#59  
2-Hexanone  
Concen: 0.446 ug/l  
RT: 11.087 min Scan# 3392  
Delta R.T. 0.000 min  
Lab File: VN068411.D  
Acq: 3 Sep 2021 16:45

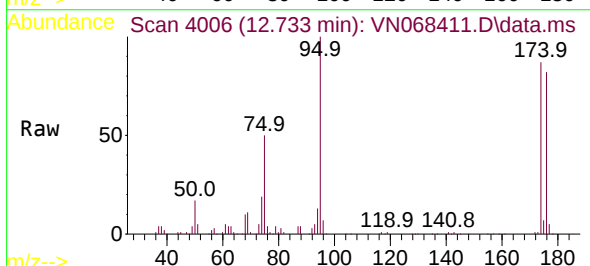
Instrument :  
MSVOA\_N  
ClientSampled :



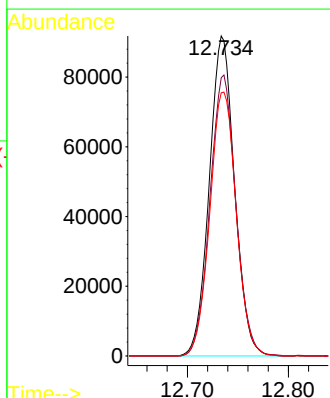
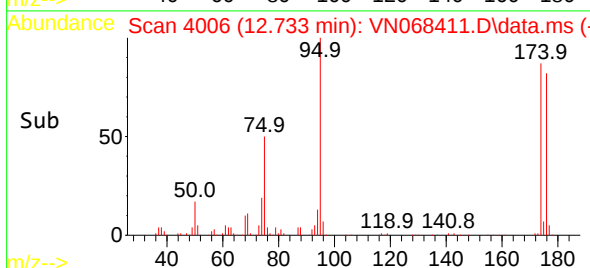
Tgt Ion: 43 Resp: 1541  
Ion Ratio Lower Upper  
43 100  
58 25.8 39.4 59.0#  
57 17.8 14.4 21.6

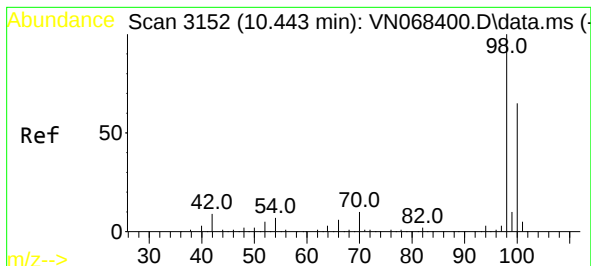


#60  
4-Bromofluorobenzene  
Concen: 26.323 ug/l  
RT: 12.733 min Scan# 4006  
Delta R.T. 0.003 min  
Lab File: VN068411.D  
Acq: 3 Sep 2021 16:45



Tgt Ion: 95 Resp: 159469  
Ion Ratio Lower Upper  
95 100  
174 90.0 47.7 71.5#  
176 86.2 45.7 68.5#

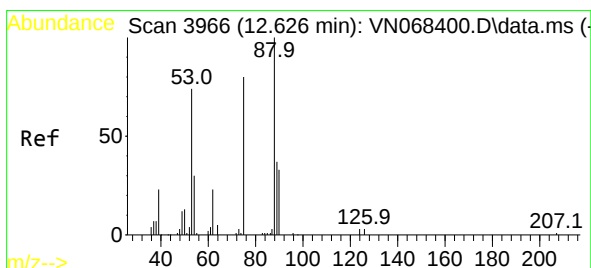
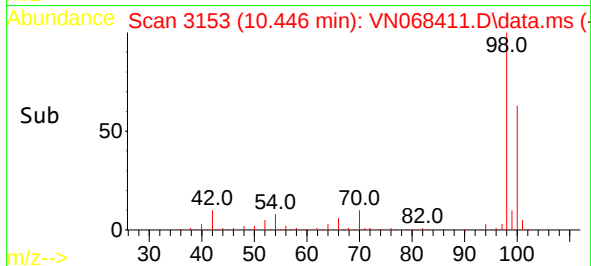
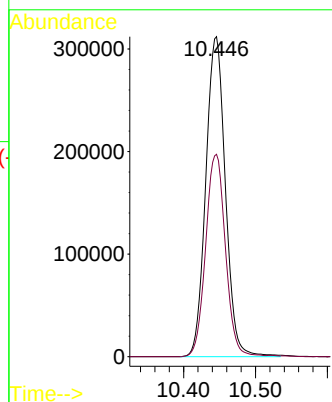
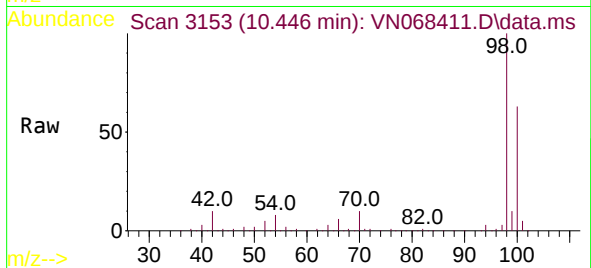




#63  
Toluene-d8  
Concen: 31.110 ug/l  
RT: 10.446 min Scan# 3153  
Delta R.T. 0.003 min  
Lab File: VN068411.D  
Acq: 3 Sep 2021 16:45

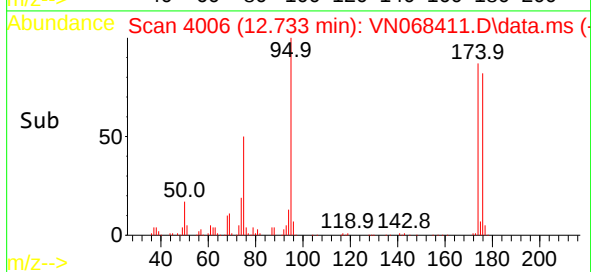
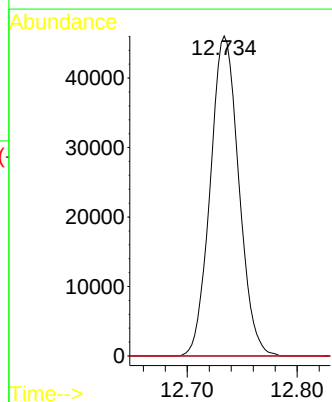
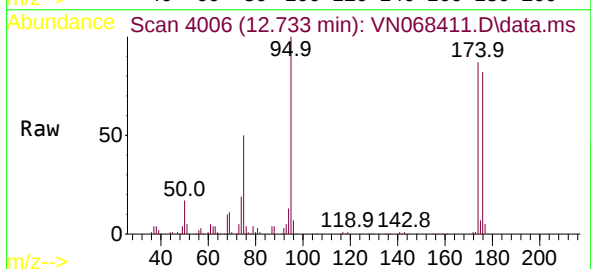
Instrument :  
MSVOA\_N  
ClientSampleId :

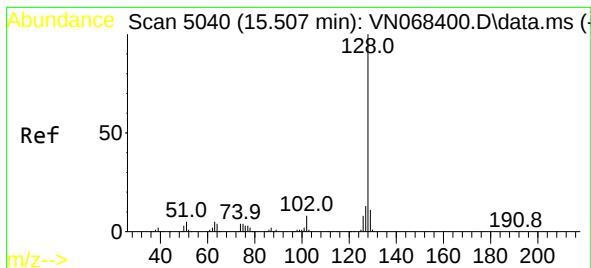
Tgt Ion: 98 Resp: 592665  
Ion Ratio Lower Upper  
98 100  
100 63.8 51.2 76.8



#77  
t-1,4-Dichloro-2-butene  
Concen: 50.581 ug/l  
RT: 12.733 min Scan# 4006  
Delta R.T. 0.107 min  
Lab File: VN068411.D  
Acq: 3 Sep 2021 16:45

Tgt Ion: 75 Resp: 83094  
Ion Ratio Lower Upper  
75 100  
53 0.0 55.2 165.6#  
89 0.0 24.5 73.5#





#91  
Naphthalene  
Concen: 0.244 ug/l  
RT: 15.507 min Scan# 5040  
Delta R.T. 0.000 min  
Lab File: VN068411.D  
Acq: 3 Sep 2021 16:45

Instrument :  
MSVOA\_N  
ClientSampleId :

Tgt Ion:128 Resp: 3332  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.1 15.1#  
129 5.2 8.9 13.3#

