

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN110221\  
 Data File : VN069338.D  
 Acq On : 2 Nov 2021 10:25  
 Operator : JC/MD  
 Sample : VN1102WBL01  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Nov 03 00:46:34 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N102821W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 28 16:09:15 2021  
 Response via : Initial Calibration

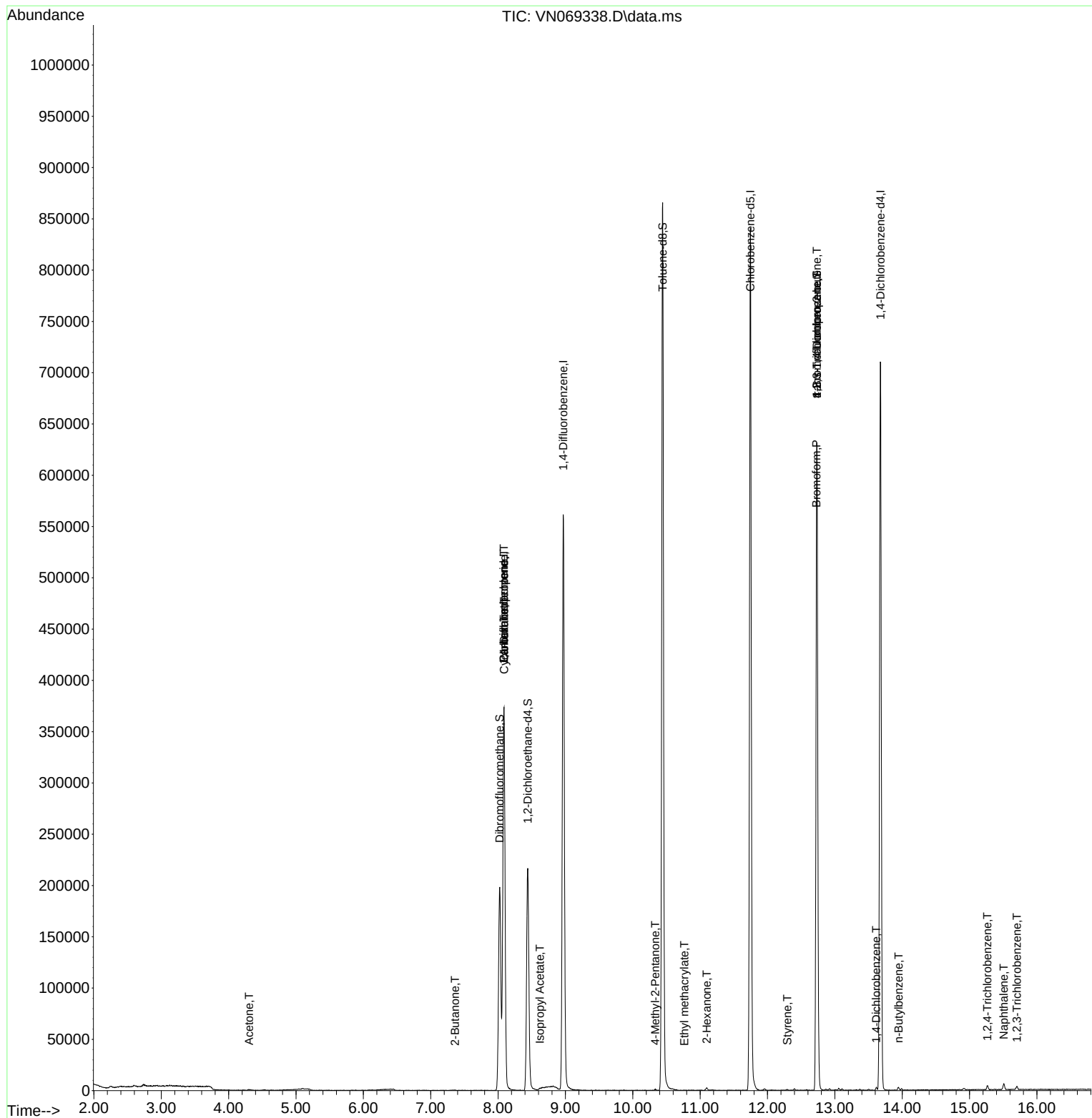
| Compound                      | R.T.   | QIon           | Response | Conc      | Units    | Dev(Min) |
|-------------------------------|--------|----------------|----------|-----------|----------|----------|
| Internal Standards            |        |                |          |           |          |          |
| 1) Pentafluorobenzene         | 8.088  | 168            | 280184   | 50.000    | ug/l     | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.968  | 114            | 501811   | 50.000    | ug/l     | 0.00     |
| 63) Chlorobenzene-d5          | 11.747 | 117            | 495970   | 50.000    | ug/l     | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.678 | 152            | 193552   | 50.000    | ug/l     | 0.00     |
| System Monitoring Compounds   |        |                |          |           |          |          |
| 33) 1,2-Dichloroethane-d4     | 8.440  | 65             | 194127   | 47.997    | ug/l     | 0.00     |
| Spiked Amount                 | 50.000 | Range 61 - 141 | Recovery | =         | 96.000%  |          |
| 35) Dibromofluoromethane      | 8.024  | 113            | 147904   | 47.282    | ug/l     | 0.00     |
| Spiked Amount                 | 50.000 | Range 69 - 133 | Recovery | =         | 94.560%  |          |
| 50) Toluene-d8                | 10.443 | 98             | 627197   | 50.147    | ug/l     | 0.00     |
| Spiked Amount                 | 50.000 | Range 65 - 126 | Recovery | =         | 100.300% |          |
| 62) 4-Bromofluorobenzene      | 12.734 | 95             | 234014   | 49.583    | ug/l     | 0.00     |
| Spiked Amount                 | 50.000 | Range 58 - 135 | Recovery | =         | 99.160%  |          |
| Target Compounds              |        |                |          |           |          |          |
| 3) Chloromethane              | 2.309  | 50             | 201      | Below Cal | #        | 42       |
| 16) Acetone                   | 4.301  | 43             | 1011     | 0.587     | ug/l     | 91       |
| 25) 2-Butanone                | 7.359  | 43             | 167      | 1.697     | ug/l #   | 48       |
| 31) Cyclohexane               | 8.091  | 56             | 6679     | 1.234     | ug/l #   | 12       |
| 36) 1,1-Dichloropropene       | 8.086  | 75             | 23521    | 5.437     | ug/l #   | 48       |
| 38) Carbon Tetrachloride      | 8.088  | 117            | 29736    | 6.931     | ug/l #   | 16       |
| 43) Isopropyl Acetate         | 8.622  | 43             | 857      | 0.558     | ug/l #   | 55       |
| 51) 4-Methyl-2-Pentanone      | 10.336 | 43             | 999      | 6.576     | ug/l #   | 36       |
| 56) Ethyl methacrylate        | 10.765 | 69             | 81       | 1.696     | ug/l #   | 23       |
| 59) 2-Hexanone                | 11.100 | 43             | 2265     | 8.513     | ug/l     | 83       |
| 70) Styrene                   | 12.294 | 104            | 464      | 1.493     | ug/l #   | 75       |
| 71) Bromoform                 | 12.725 | 173            | 658      | 3.075     | ug/l #   | 29       |
| 76) 1,2,3-Trichloropropane    | 12.734 | 75             | 124388   | 24.435    | ug/l #   | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.734 | 75             | 124388   | 70.081    | ug/l #   | 12       |
| 88) 1,4-Dichlorobenzene       | 13.616 | 146            | 877      | 0.209     | ug/l     | 96       |
| 89) n-Butylbenzene            | 13.946 | 91             | 2370     | 0.215     | ug/l     | 86       |
| 93) 1,2,4-Trichlorobenzene    | 15.265 | 180            | 1610     | 2.974     | ug/l     | 95       |
| 95) Naphthalene               | 15.507 | 128            | 6470     | 3.932     | ug/l #   | 95       |
| 96) 1,2,3-Trichlorobenzene    | 15.702 | 180            | 1606     | 2.707     | ug/l     | 93       |

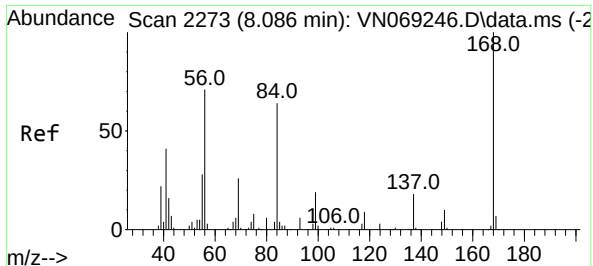
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Thu Oct 28 16:09:15 2021  
Response via : Initial Calibration

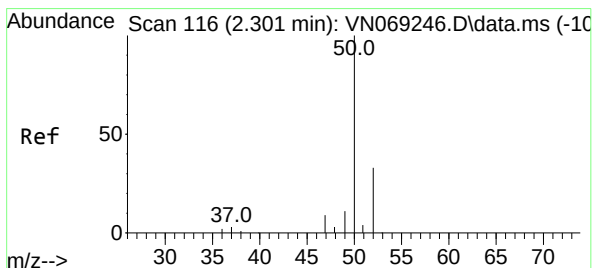
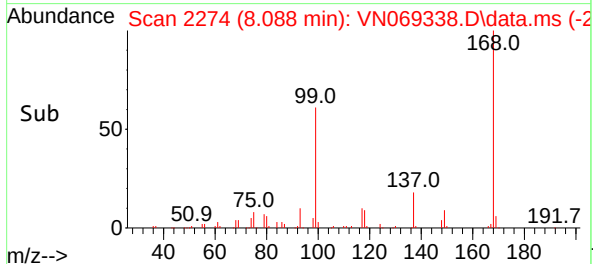
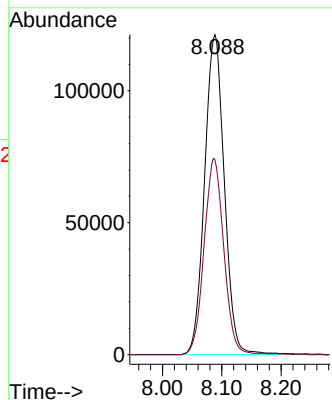
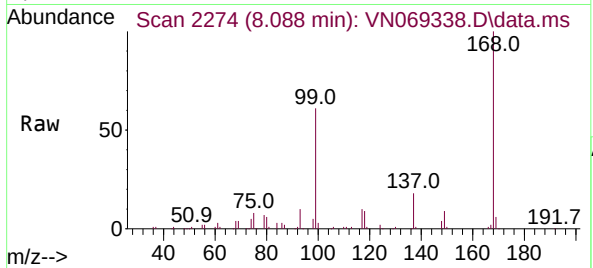




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.088 min Scan# 21  
Delta R.T. 0.002 min  
Lab File: VN069338.D  
Acq: 2 Nov 2021 10:25

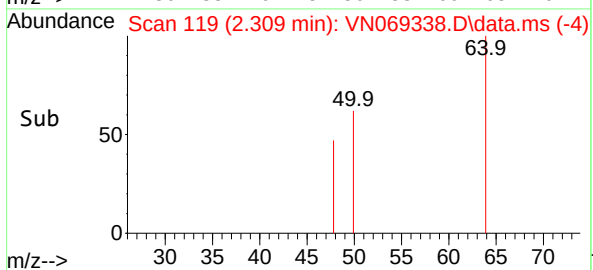
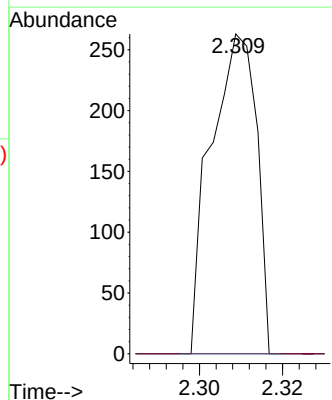
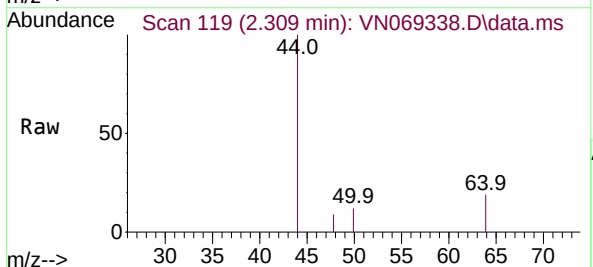
Instrument :  
MSVOA\_N  
ClientSampleId :

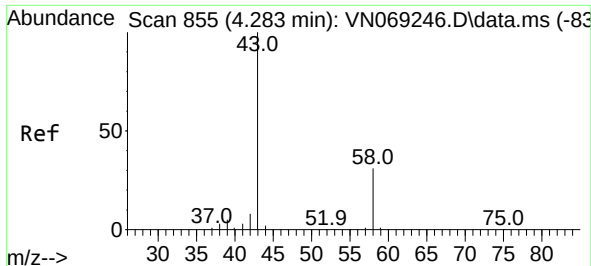
Tgt Ion:168 Resp: 280184  
Ion Ratio Lower Upper  
168 100  
99 60.9 48.9 73.3



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.309 min Scan# 119  
Delta R.T. 0.008 min  
Lab File: VN069338.D  
Acq: 2 Nov 2021 10:25

Tgt Ion: 50 Resp: 201  
Ion Ratio Lower Upper  
50 100  
52 0.0 26.3 39.5#

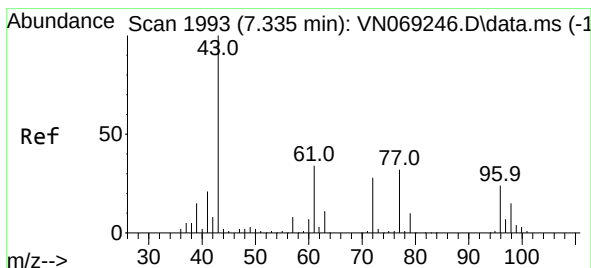
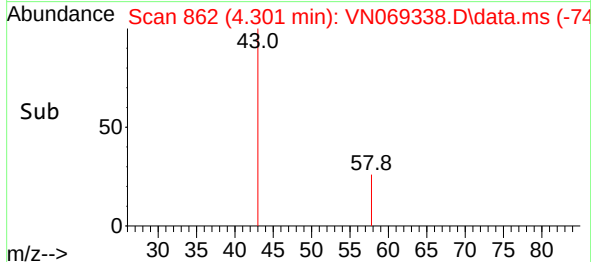
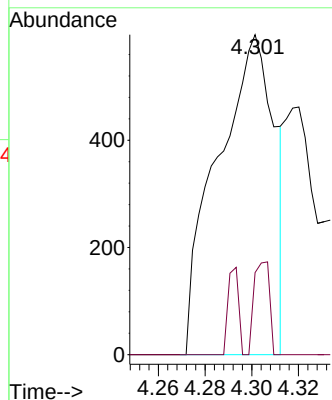
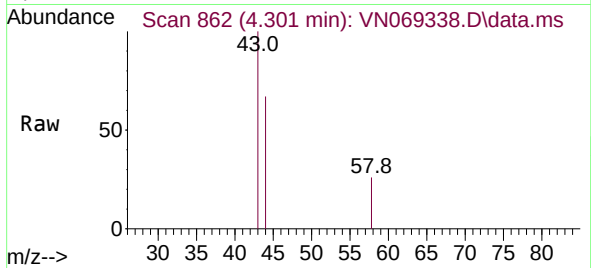




#16  
Acetone  
Concen: 0.587 ug/l  
RT: 4.301 min Scan# 80  
Delta R.T. 0.018 min  
Lab File: VN069338.D  
Acq: 2 Nov 2021 10:25

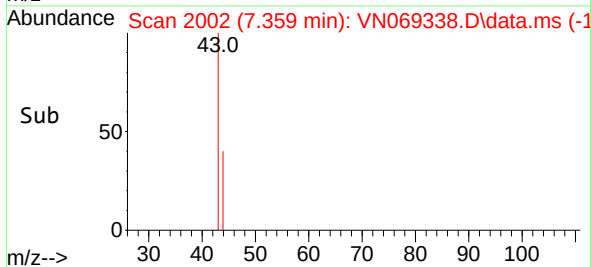
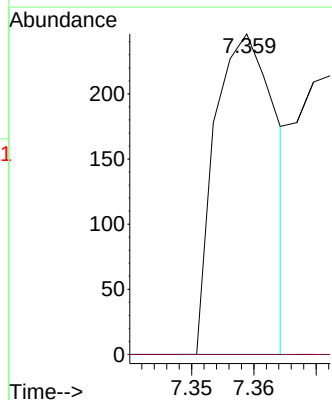
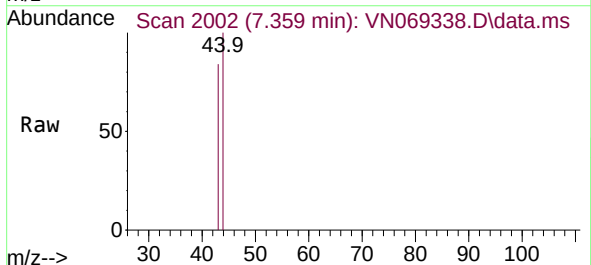
Instrument :  
MSVOA\_N  
ClientSampleId :

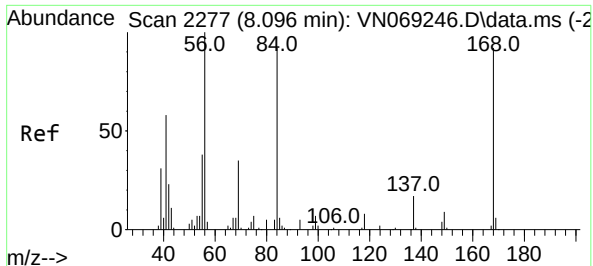
Tgt Ion: 43 Resp: 1011  
Ion Ratio Lower Upper  
43 100  
58 25.6 24.5 36.7



#25  
2-Butanone  
Concen: 1.697 ug/l  
RT: 7.359 min Scan# 2002  
Delta R.T. 0.024 min  
Lab File: VN069338.D  
Acq: 2 Nov 2021 10:25

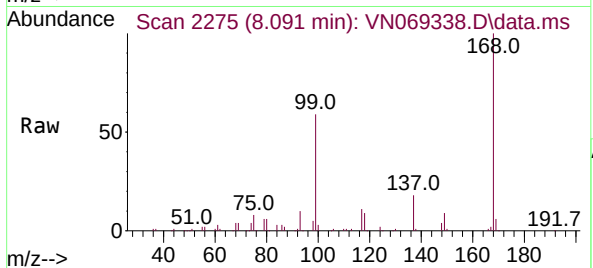
Tgt Ion: 43 Resp: 167  
Ion Ratio Lower Upper  
43 100  
72 0.0 21.2 31.8#



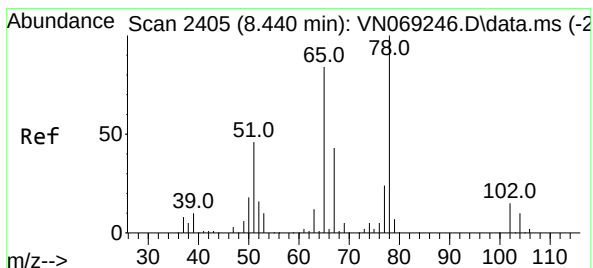
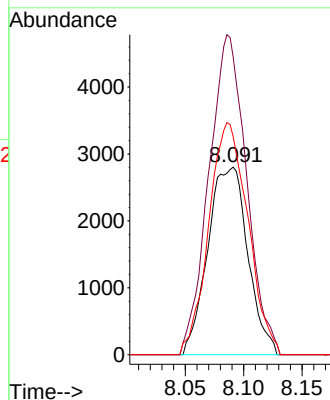
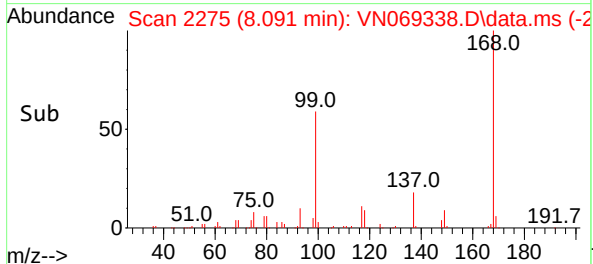


#31  
Cyclohexane  
Concen: 1.234 ug/l  
RT: 8.091 min Scan# 21  
Delta R.T. -0.005 min  
Lab File: VN069338.D  
Acq: 2 Nov 2021 10:25

Instrument :  
MSVOA\_N  
ClientSampleId :

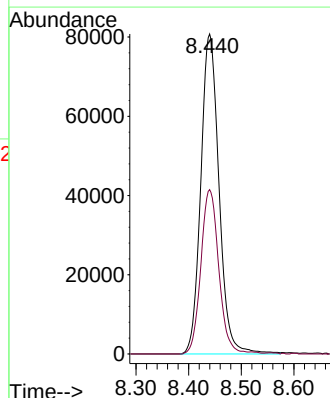
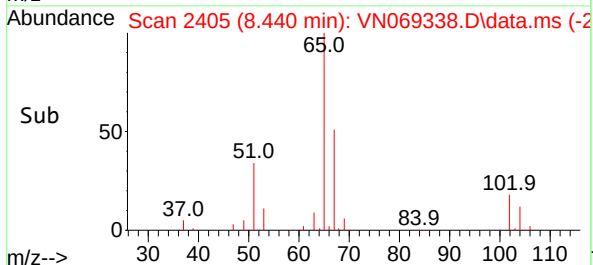
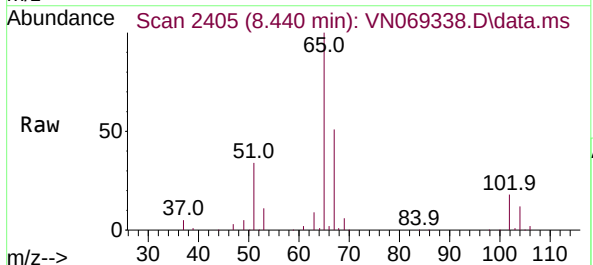


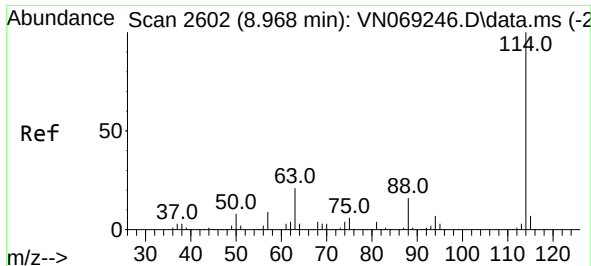
Tgt Ion: 56 Resp: 6679  
Ion Ratio Lower Upper  
56 100  
69 158.9 26.9 40.3#  
84 116.3 67.6 101.4#



#33  
1,2-Dichloroethane-d4  
Concen: 47.997 ug/l  
RT: 8.440 min Scan# 2405  
Delta R.T. -0.000 min  
Lab File: VN069338.D  
Acq: 2 Nov 2021 10:25

Tgt Ion: 65 Resp: 194127  
Ion Ratio Lower Upper  
65 100  
67 50.4 0.0 103.8

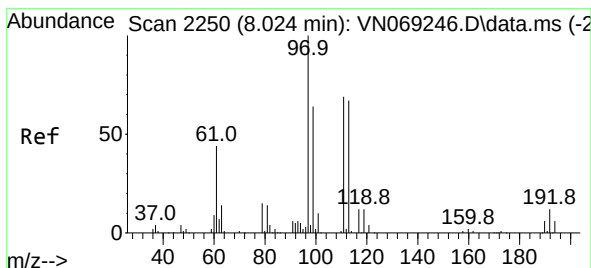
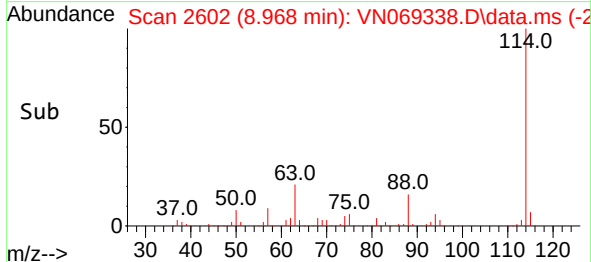
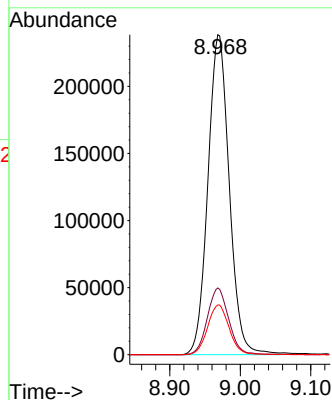
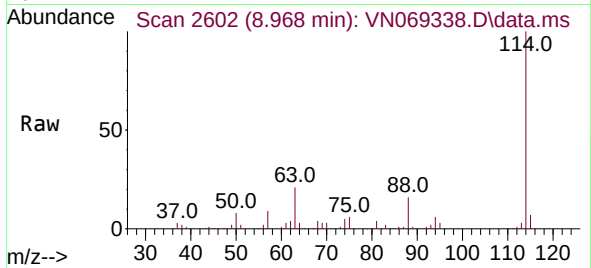




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.968 min Scan# 2602  
Delta R.T. 0.000 min  
Lab File: VN069338.D  
Acq: 2 Nov 2021 10:25

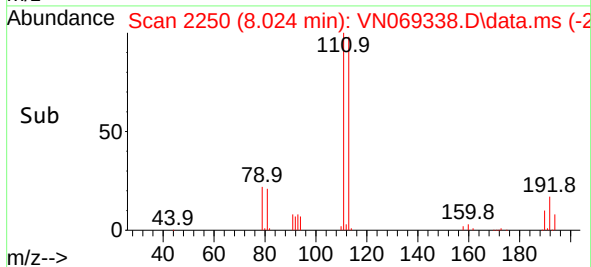
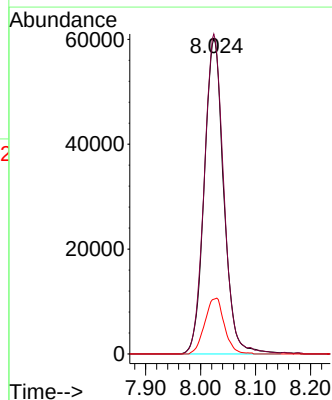
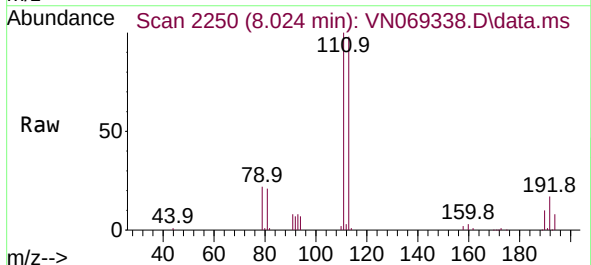
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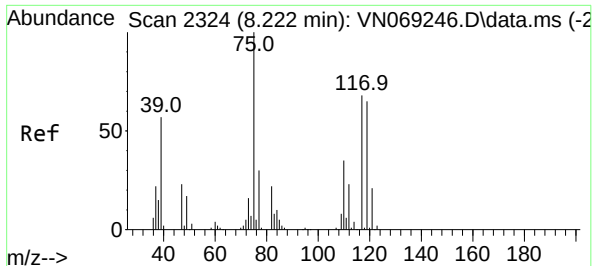
Tgt Ion:114 Resp: 501811  
Ion Ratio Lower Upper  
114 100  
63 20.8 0.0 42.6  
88 15.5 0.0 32.0



#35  
Dibromofluoromethane  
Concen: 47.282 ug/l  
RT: 8.024 min Scan# 2250  
Delta R.T. -0.000 min  
Lab File: VN069338.D  
Acq: 2 Nov 2021 10:25

Tgt Ion:113 Resp: 147904  
Ion Ratio Lower Upper  
113 100  
111 101.8 83.2 124.8  
192 17.8 15.0 22.4

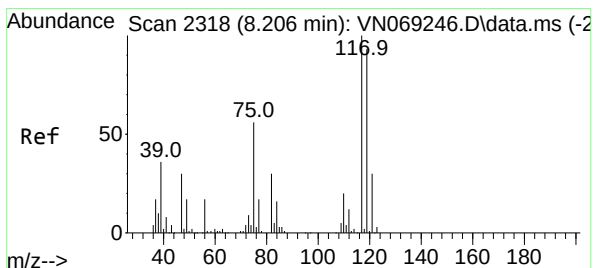
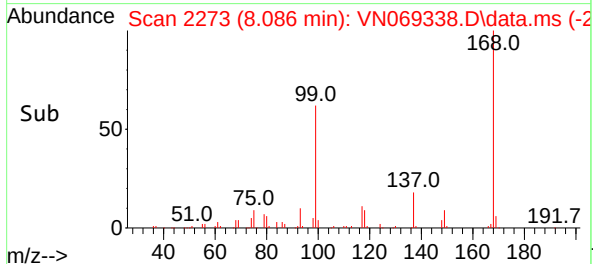
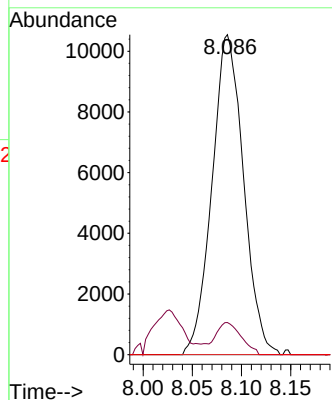
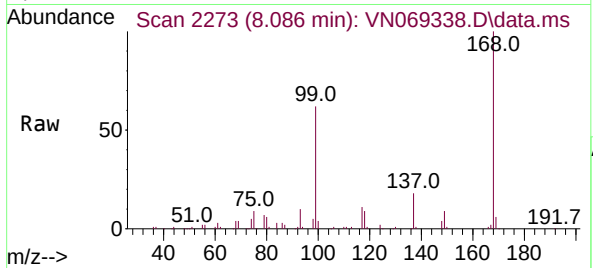




#36  
 1,1-Dichloropropene  
 Concen: 5.437 ug/l  
 RT: 8.086 min Scan# 21  
 Delta R.T. -0.136 min  
 Lab File: VN069338.D  
 Acq: 2 Nov 2021 10:25

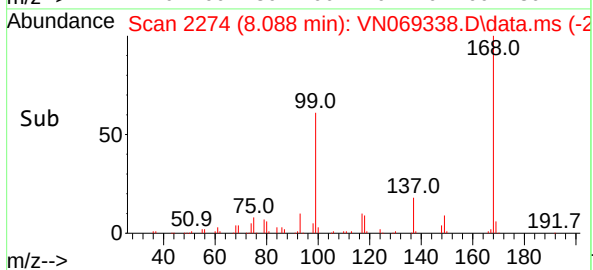
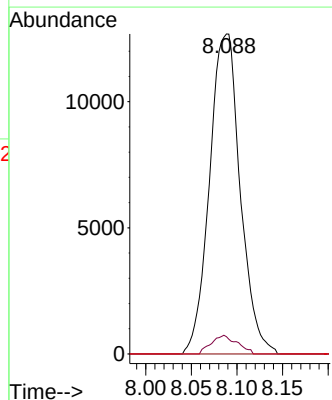
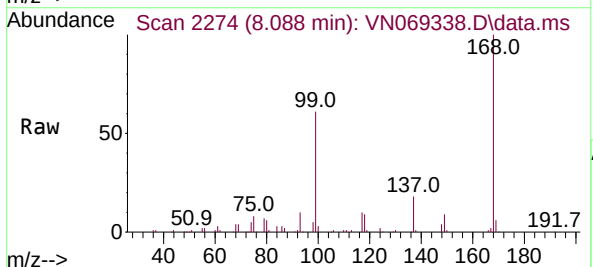
Instrument :  
 MSVOA\_N  
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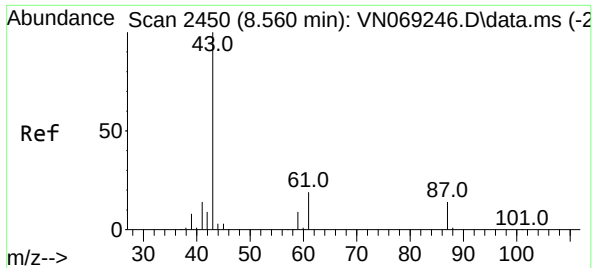
Tgt Ion: 75 Resp: 23521  
 Ion Ratio Lower Upper  
 75 100  
 110 8.0 17.9 53.8#  
 77 0.0 24.7 37.1#



#38  
 Carbon Tetrachloride  
 Concen: 6.931 ug/l  
 RT: 8.088 min Scan# 2274  
 Delta R.T. -0.118 min  
 Lab File: VN069338.D  
 Acq: 2 Nov 2021 10:25

Tgt Ion: 117 Resp: 29736  
 Ion Ratio Lower Upper  
 117 100  
 119 5.4 76.9 115.3#  
 121 0.0 24.6 37.0#

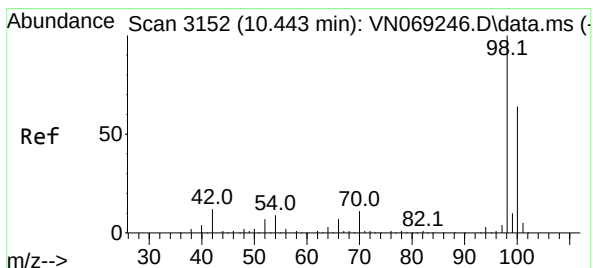
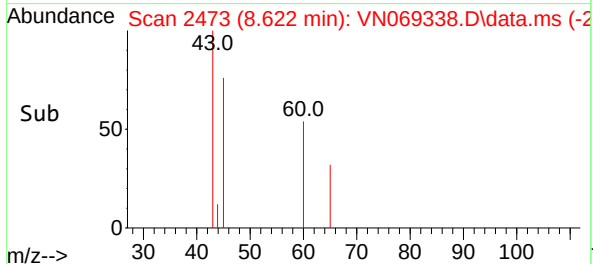
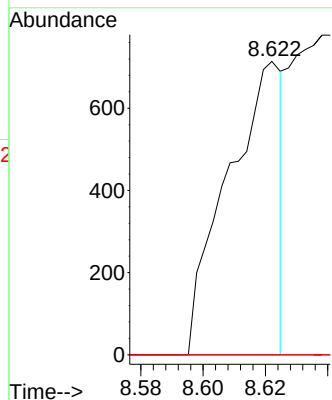
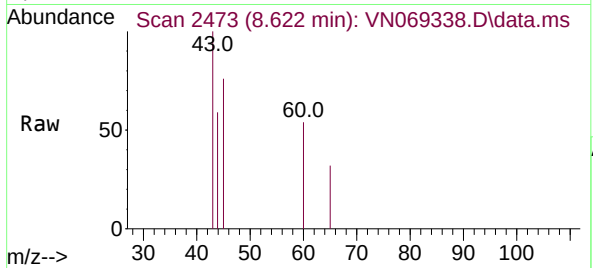




#43  
Isopropyl Acetate  
Concen: 0.558 ug/l  
RT: 8.622 min Scan# 2450  
Delta R.T. 0.062 min  
Lab File: VN069338.D  
Acq: 2 Nov 2021 10:25

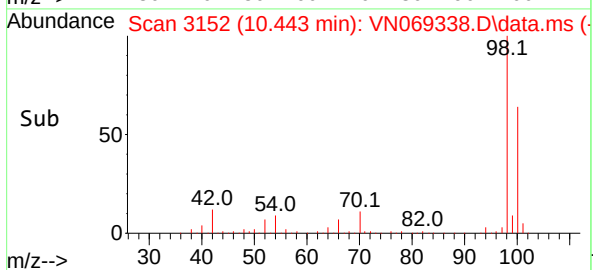
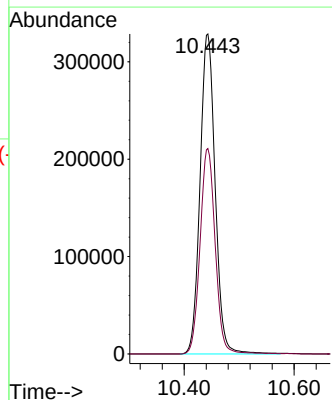
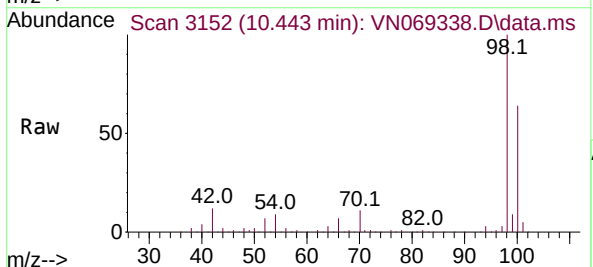
Instrument :  
MSVOA\_N  
ClientSampleId :

Tgt Ion: 43 Resp: 857  
Ion Ratio Lower Upper  
43 100  
61 0.0 20.4 30.6#  
87 0.0 10.7 16.1#

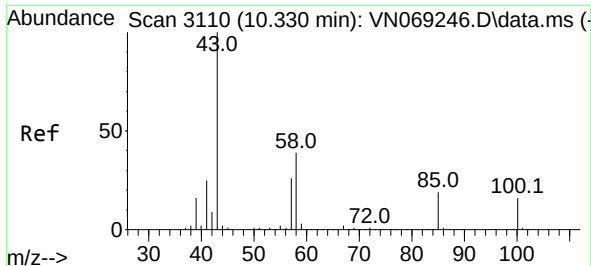


#50  
Toluene-d8  
Concen: 50.147 ug/l  
RT: 10.443 min Scan# 3152  
Delta R.T. 0.000 min  
Lab File: VN069338.D  
Acq: 2 Nov 2021 10:25

Tgt Ion: 98 Resp: 627197  
Ion Ratio Lower Upper  
98 100  
100 64.1 51.5 77.3







#51

4-Methyl-2-Pentanone

Concen: 6.576 ug/l

RT: 10.336 min Scan# 3110

Delta R.T. 0.006 min

Lab File: VN069338.D

Acq: 2 Nov 2021 10:25

Instrument :

MSVOA\_N

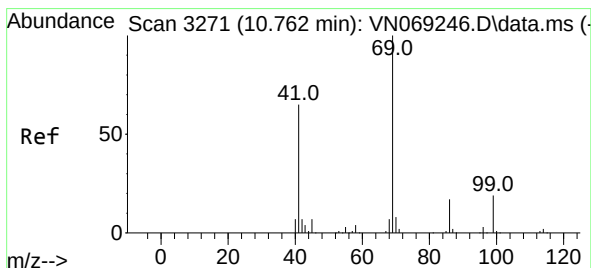
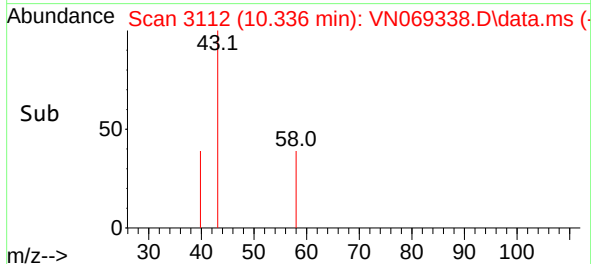
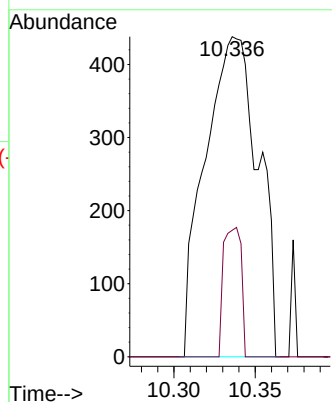
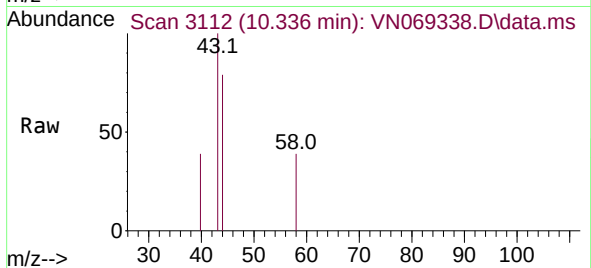
ClientSampleId :

Tgt Ion: 43 Resp: 999

Ion Ratio Lower Upper

43 100

58 0.0 31.0 46.4#



#56

Ethyl methacrylate

Concen: 1.696 ug/l

RT: 10.765 min Scan# 3272

Delta R.T. 0.003 min

Lab File: VN069338.D

Acq: 2 Nov 2021 10:25

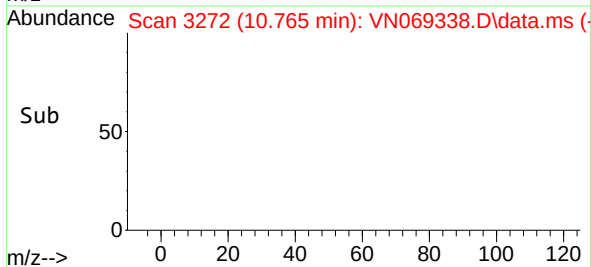
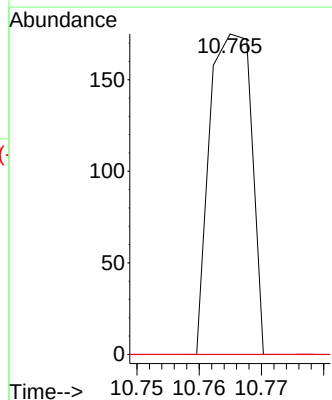
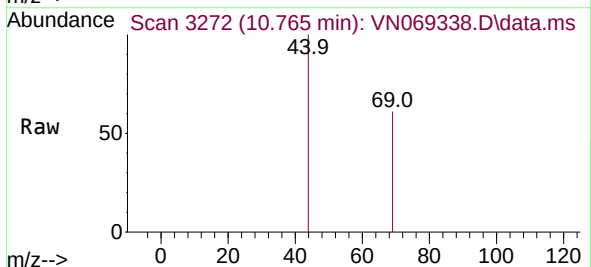
Tgt Ion: 69 Resp: 81

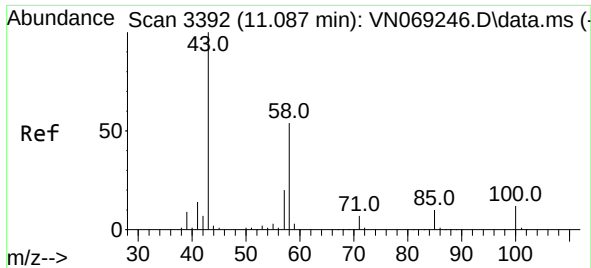
Ion Ratio Lower Upper

69 100

41 0.0 53.3 79.9#

39 0.0 33.3 49.9#

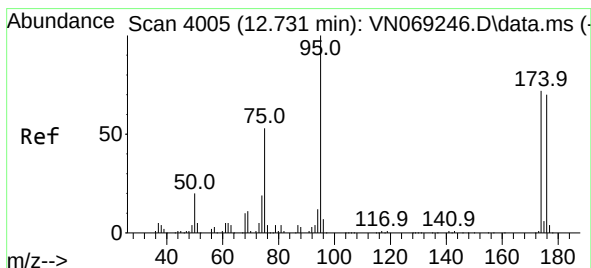
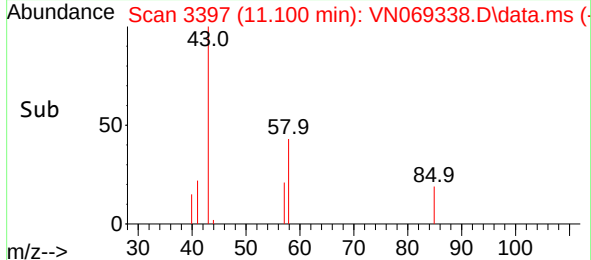
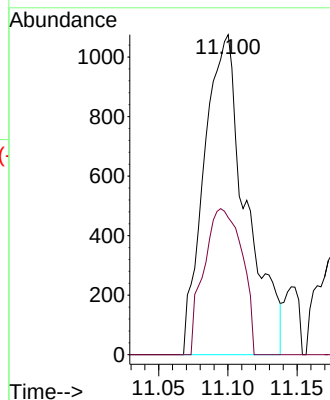
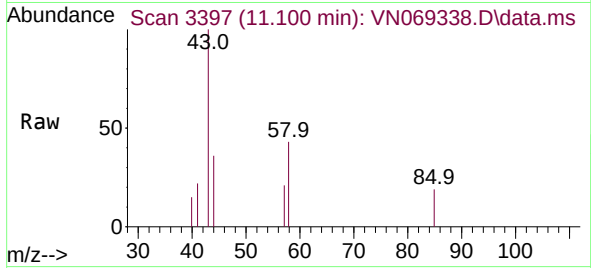




#59  
2-Hexanone  
Concen: 8.513 ug/l  
RT: 11.100 min Scan# 31  
Delta R.T. 0.013 min  
Lab File: VN069338.D  
Acq: 2 Nov 2021 10:25

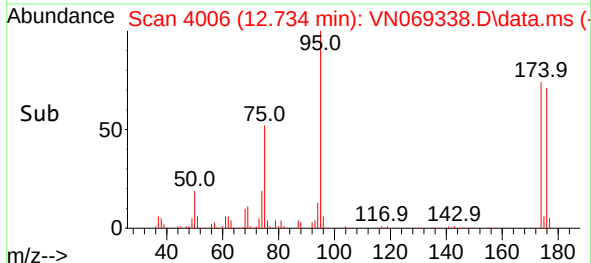
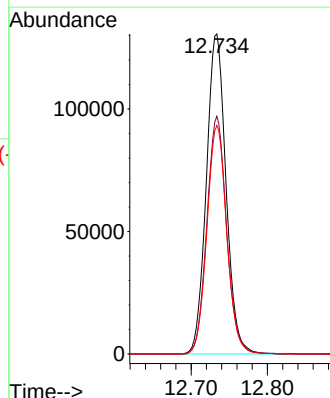
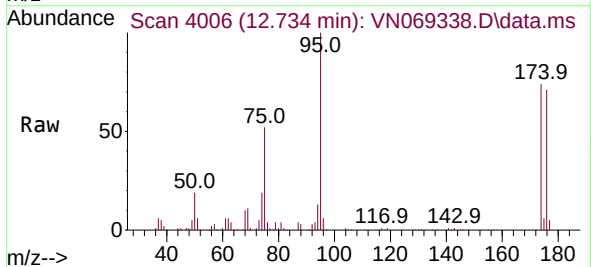
Instrument :  
MSVOA\_N  
ClientSampleId :

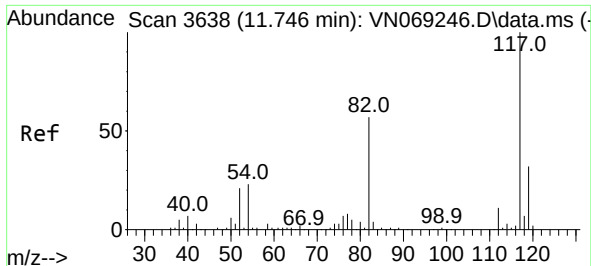
Tgt Ion: 43 Resp: 2265  
Ion Ratio Lower Upper  
43 100  
58 41.3 26.9 80.7



#62  
4-Bromofluorobenzene  
Concen: 49.583 ug/l  
RT: 12.734 min Scan# 4006  
Delta R.T. 0.003 min  
Lab File: VN069338.D  
Acq: 2 Nov 2021 10:25

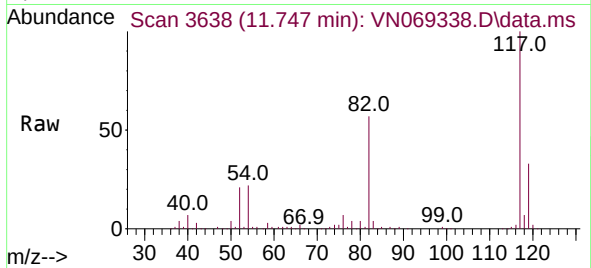
Tgt Ion: 95 Resp: 234014  
Ion Ratio Lower Upper  
95 100  
174 74.6 0.0 144.8  
176 71.9 0.0 140.0



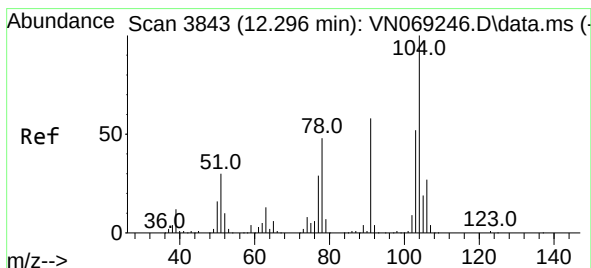
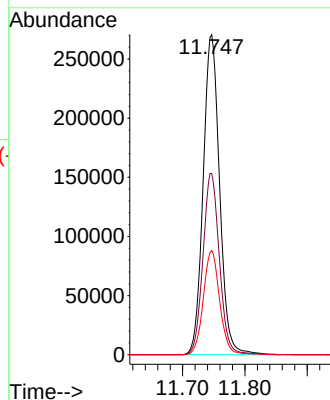
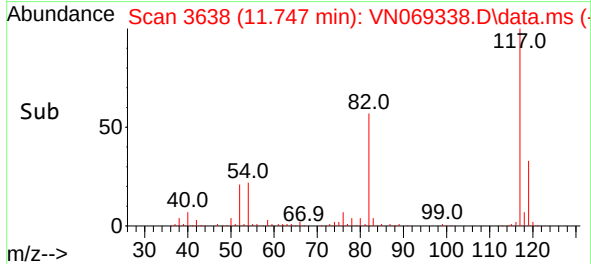


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.747 min Scan# 3638  
Delta R.T. 0.000 min  
Lab File: VN069338.D  
Acq: 2 Nov 2021 10:25

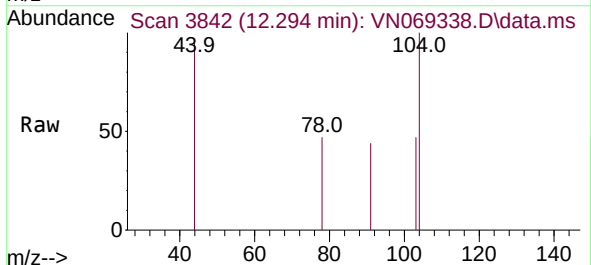
Instrument :  
MSVOA\_N  
ClientSampleId :



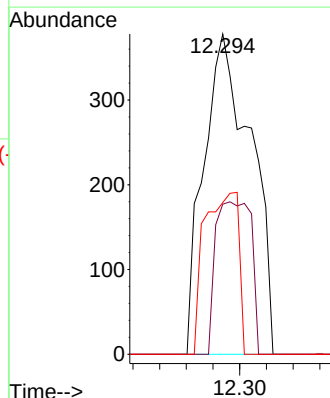
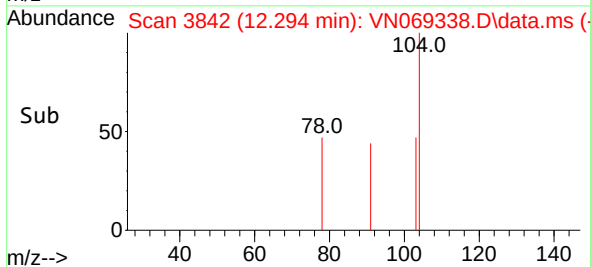
Tgt Ion:117 Resp: 495970  
Ion Ratio Lower Upper  
117 100  
82 56.6 46.4 69.6  
119 32.6 26.0 39.0

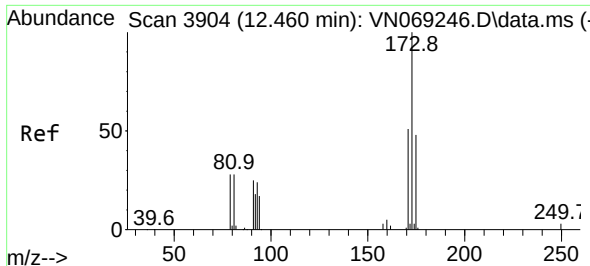


#70  
Styrene  
Concen: 1.493 ug/l  
RT: 12.294 min Scan# 3842  
Delta R.T. -0.002 min  
Lab File: VN069338.D  
Acq: 2 Nov 2021 10:25



Tgt Ion:104 Resp: 464  
Ion Ratio Lower Upper  
104 100  
78 35.8 42.2 63.4#  
103 36.4 44.4 66.6#

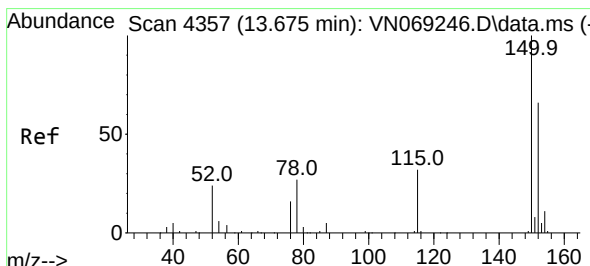
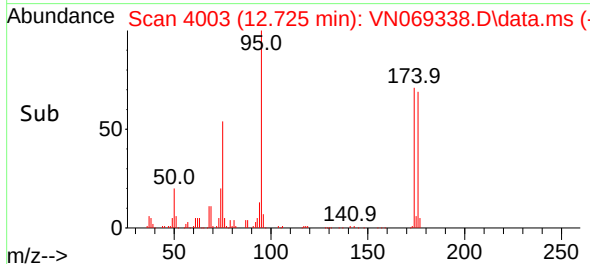
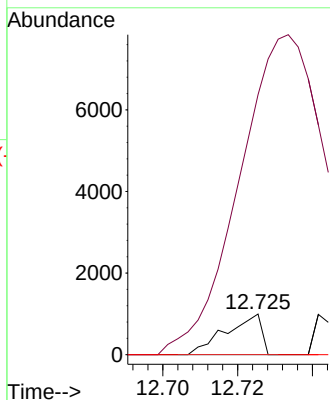
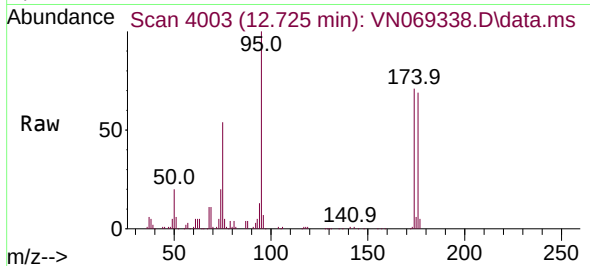




#71  
Bromoform  
Concen: 3.075 ug/l  
RT: 12.725 min Scan# 4003  
Delta R.T. 0.265 min  
Lab File: VN069338.D  
Acq: 2 Nov 2021 10:25

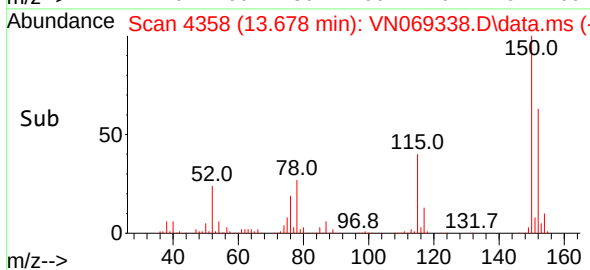
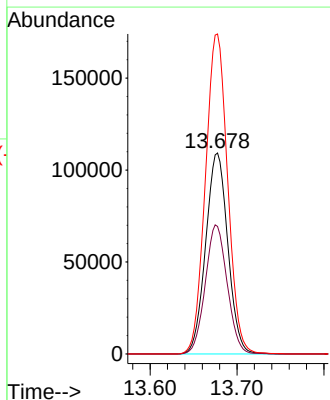
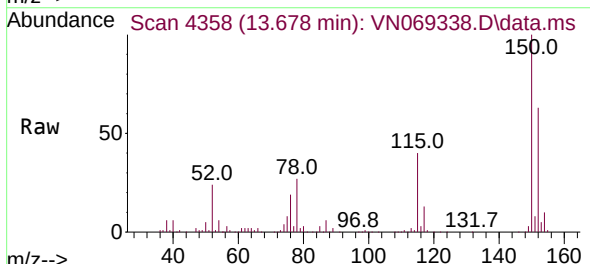
Instrument :  
MSVOA\_N  
ClientSampleId :

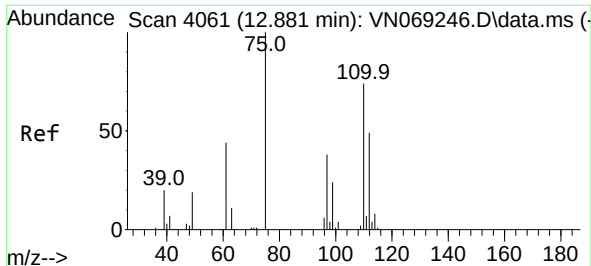
Tgt Ion:173 Resp: 658  
Ion Ratio Lower Upper  
173 100  
175 0.0 23.8 71.5#  
254 0.0 0.0 0.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.678 min Scan# 4358  
Delta R.T. 0.003 min  
Lab File: VN069338.D  
Acq: 2 Nov 2021 10:25

Tgt Ion:152 Resp: 193552  
Ion Ratio Lower Upper  
152 100  
115 63.5 31.4 94.3  
150 159.5 0.0 351.0

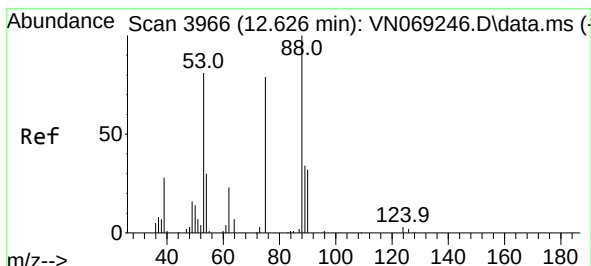
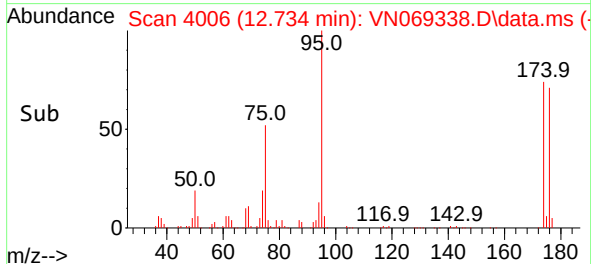
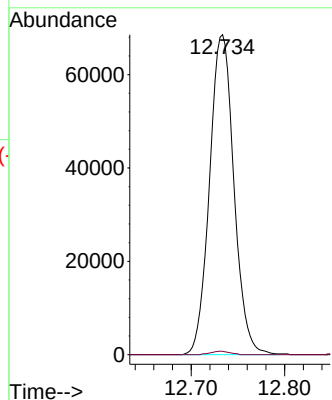
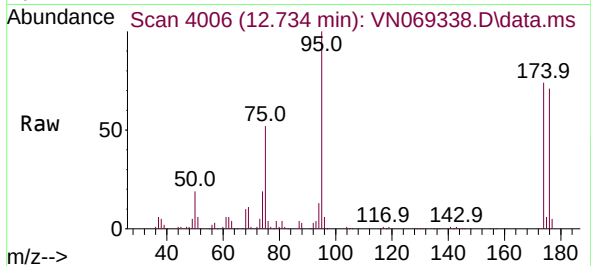




#76  
1,2,3-Trichloropropane  
Concen: 24.435 ug/l  
RT: 12.734 min Scan# 4006  
Delta R.T. -0.147 min  
Lab File: VN069338.D  
Acq: 2 Nov 2021 10:25

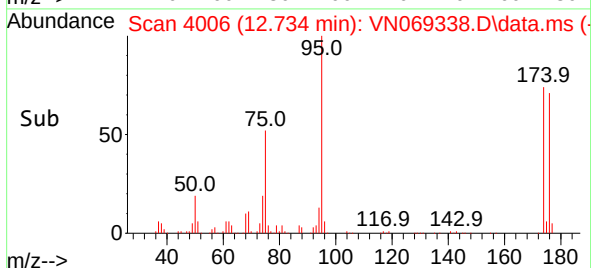
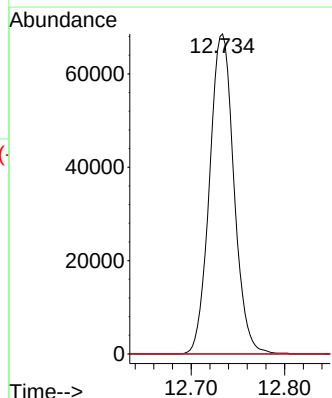
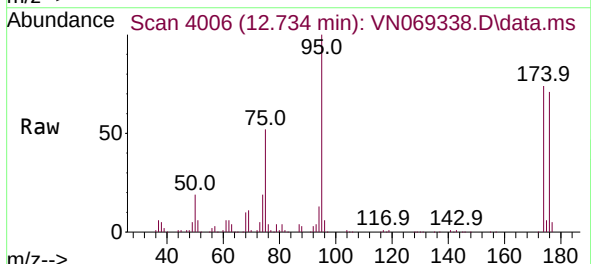
Instrument :  
MSVOA\_N  
ClientSampleId :

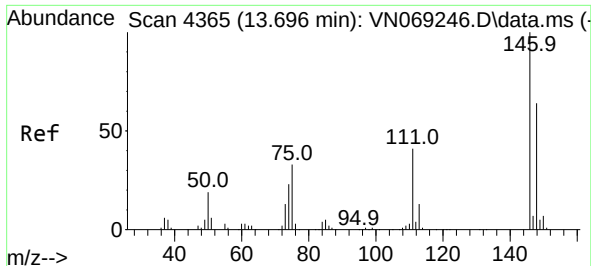
Tgt Ion: 75 Resp: 124388  
Ion Ratio Lower Upper  
75 100  
77 0.9 96.2 288.4#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 70.081 ug/l  
RT: 12.734 min Scan# 4006  
Delta R.T. 0.108 min  
Lab File: VN069338.D  
Acq: 2 Nov 2021 10:25

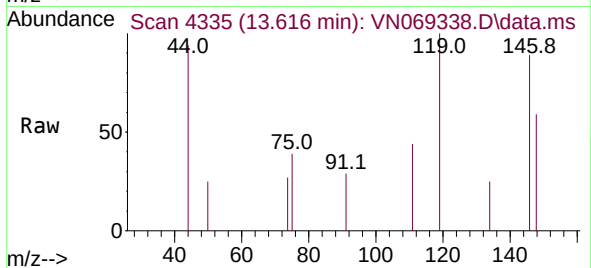
Tgt Ion: 75 Resp: 124388  
Ion Ratio Lower Upper  
75 100  
53 0.0 75.4 113.2#  
89 0.0 36.9 55.3#



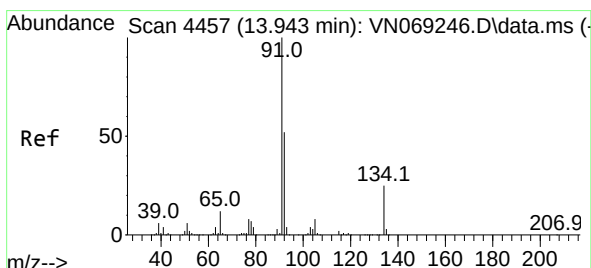
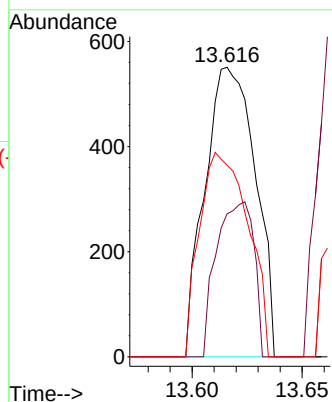
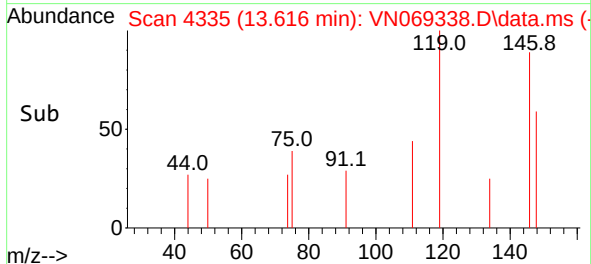


#88  
1,4-Dichlorobenzene  
Concen: 0.209 ug/l  
RT: 13.616 min Scan# 41  
Delta R.T. -0.080 min  
Lab File: VN069338.D  
Acq: 2 Nov 2021 10:25

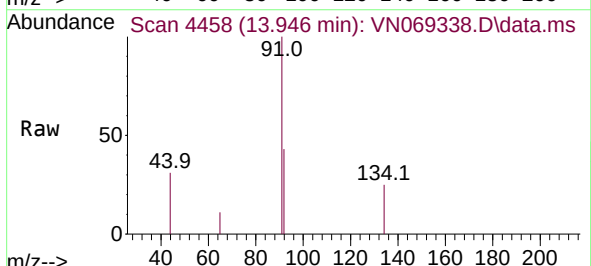
Instrument :  
MSVOA\_N  
ClientSampleId :



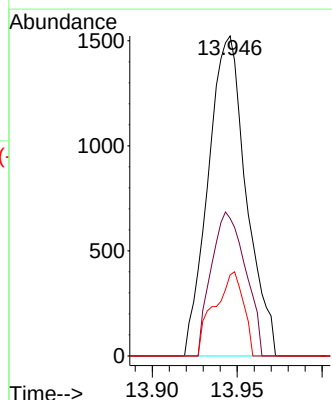
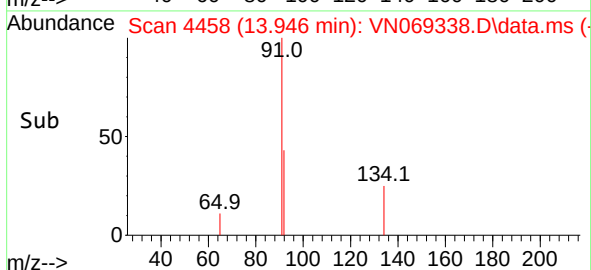
Tgt Ion:146 Resp: 877  
Ion Ratio Lower Upper  
146 100  
111 39.6 20.6 61.8  
148 68.1 32.1 96.5

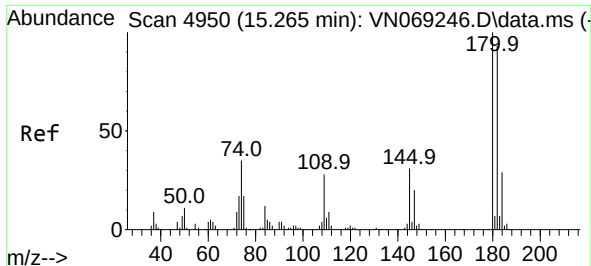


#89  
n-Butylbenzene  
Concen: 0.215 ug/l  
RT: 13.946 min Scan# 4458  
Delta R.T. 0.003 min  
Lab File: VN069338.D  
Acq: 2 Nov 2021 10:25



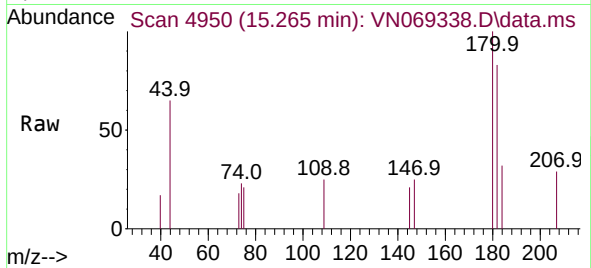
Tgt Ion: 91 Resp: 2370  
Ion Ratio Lower Upper  
91 100  
92 40.3 26.0 78.0  
134 20.0 12.5 37.5



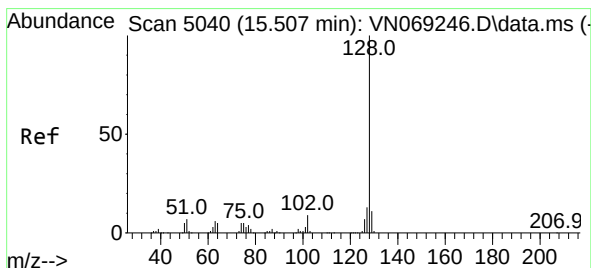
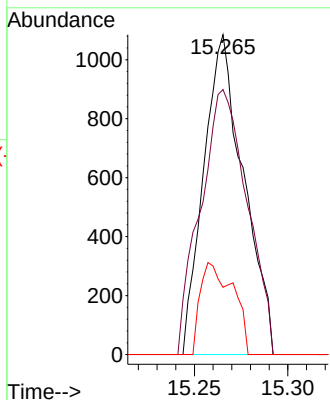
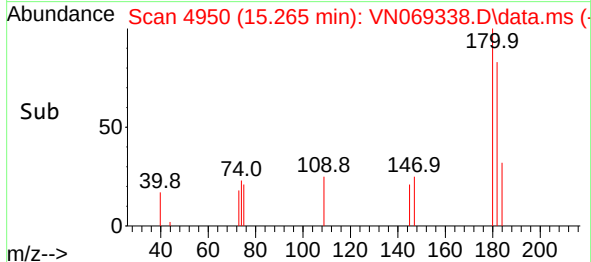


#93  
1,2,4-Trichlorobenzene  
Concen: 2.974 ug/l  
RT: 15.265 min Scan# 4950  
Delta R.T. 0.000 min  
Lab File: VN069338.D  
Acq: 2 Nov 2021 10:25

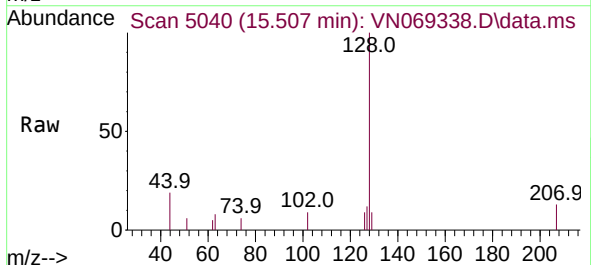
Instrument :  
MSVOA\_N  
ClientSampleId :



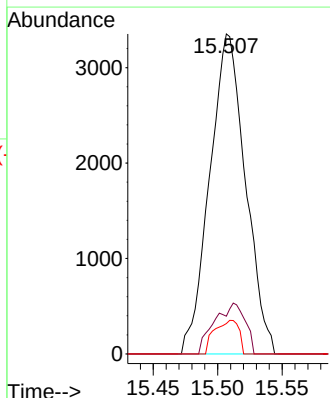
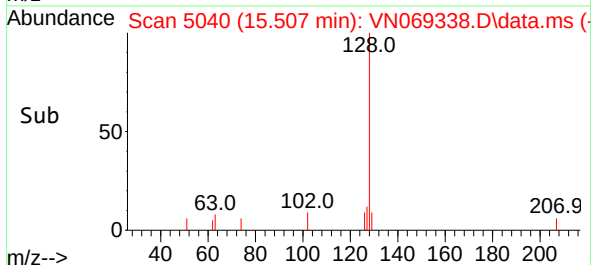
Tgt Ion:180 Resp: 1610  
Ion Ratio Lower Upper  
180 100  
182 97.1 47.9 143.7  
145 23.5 16.4 49.2

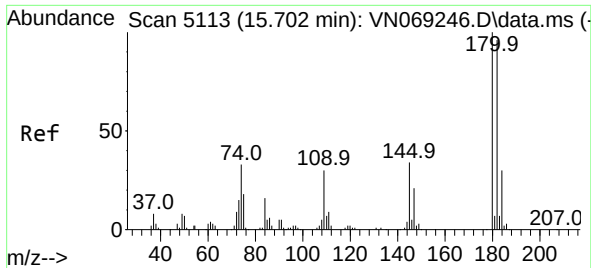


#95  
Naphthalene  
Concen: 3.932 ug/l  
RT: 15.507 min Scan# 5040  
Delta R.T. -0.000 min  
Lab File: VN069338.D  
Acq: 2 Nov 2021 10:25



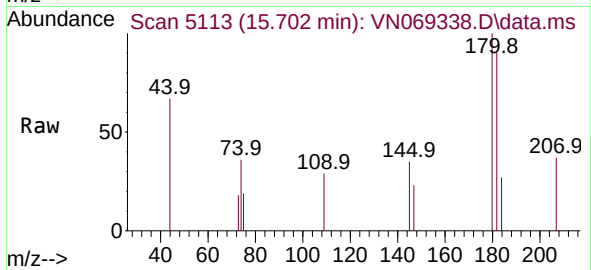
Tgt Ion:128 Resp: 6470  
Ion Ratio Lower Upper  
128 100  
127 13.6 10.5 15.7  
129 7.1 8.9 13.3#





#96  
 1,2,3-Trichlorobenzene  
 Concen: 2.707 ug/l  
 RT: 15.702 min Scan# 51  
 Delta R.T. 0.000 min  
 Lab File: VN069338.D  
 Acq: 2 Nov 2021 10:25

Instrument :  
 MSVOA\_N  
 ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 1606  |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 98.7  | 48.1  | 144.3 |
| 145      | 24.2  | 17.4  | 52.2  |

