

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN091721\  
 Data File : VN068546.D  
 Acq On : 18 Sep 2021 3:32  
 Operator : JC/MD  
 Sample : M3770-04  
 Misc : 6.30g/5mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 40 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 DUPLICATE-1

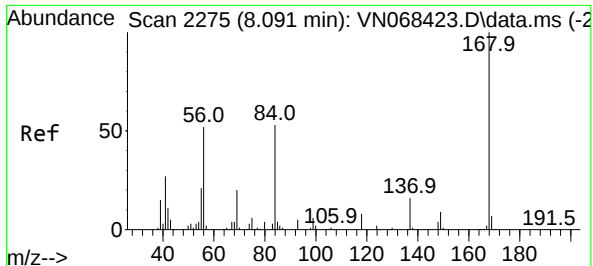
Quant Time: Sep 20 06:00:45 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N090721W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 17 11:02:11 2021  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|-----------|--------|----------|
| -----                         |                |      |            |           |        |          |
| Internal Standards            |                |      |            |           |        |          |
| 1) Pentafluorobenzene         | 8.083          | 168  | 618666     | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.968          | 114  | 818090     | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.749         | 117  | 742210     | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.677         | 152  | 397388     | 50.000    | ug/l   | 0.00     |
|                               |                |      |            |           |        |          |
| System Monitoring Compounds   |                |      |            |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.434          | 65   | 258929     | 45.626    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 61 - 141 |      | Recovery = | 91.260%   |        |          |
| 35) Dibromofluoromethane      | 8.019          | 113  | 245179     | 49.690    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 69 - 133 |      | Recovery = | 99.380%   |        |          |
| 50) Toluene-d8                | 10.443         | 98   | 908779     | 45.271    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 126 |      | Recovery = | 90.540%   |        |          |
| 62) 4-Bromofluorobenzene      | 12.733         | 95   | 329493     | 49.445    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 135 |      | Recovery = | 98.880%   |        |          |
|                               |                |      |            |           |        |          |
| Target Compounds              |                |      |            |           |        |          |
|                               |                |      |            |           | Qvalue |          |
| 3) Chloromethane              | 2.293          | 50   | 229        | Below Cal | #      | 42       |
| 5) Bromomethane               | 2.810          | 94   | 1220       | Below Cal |        | 94       |
| 11) Tert butyl alcohol        | 5.312          | 59   | 19415      | 12.403    | ug/l # | 84       |
| 16) Acetone                   | 4.317          | 43   | 3086       | Below Cal | #      | 77       |
| 18) Methyl Acetate            | 4.862          | 43   | 3553       | Below Cal | #      | 45       |
| 20) Methylene Chloride        | 5.068          | 84   | 4400       | Below Cal |        | 89       |
| 25) 2-Butanone                | 7.356          | 43   | 3201       | 1.161     | ug/l # | 74       |
| 27) cis-1,2-Dichloroethene    | 7.319          | 96   | 17503      | 2.686     | ug/l   | 89       |
| 31) Cyclohexane               | 8.080          | 56   | 8669       | 1.008     | ug/l # | 3        |
| 36) 1,1-Dichloropropene       | 8.083          | 75   | 33052      | 4.846     | ug/l # | 47       |
| 37) Ethyl Acetate             | 7.356          | 43   | 3201       | 0.617     | ug/l # | 68       |
| 38) Carbon Tetrachloride      | 8.078          | 117  | 51660      | 6.322     | ug/l # | 16       |
| 44) Trichloroethene           | 9.215          | 130  | 10343      | 1.618     | ug/l   | 94       |
| 60) Dibromochloromethane      | 10.977         | 129  | 14389      | 3.707     | ug/l # | 11       |
| 64) Tetrachloroethene         | 10.979         | 164  | 15422      | 2.344     | ug/l   | 99       |
| 70) Styrene                   | 12.296         | 104  | 360        | 1.774     | ug/l # | 69       |
| 71) Bromoform                 | 12.720         | 173  | 478        | 2.606     | ug/l # | 29       |
| 74) N-amyl acetate            | 12.371         | 43   | 10379      | 1.646     | ug/l # | 65       |
| 76) 1,2,3-Trichloropropane    | 12.733         | 75   | 167245     | 30.169    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.733         | 75   | 167245     | 93.271    | ug/l # | 14       |
| 93) 1,2,4-Trichlorobenzene    | 15.254         | 180  | 869        | 3.069     | ug/l # | 67       |
| 95) Naphthalene               | 15.507         | 128  | 3443       | 3.700     | ug/l # | 90       |
| 96) 1,2,3-Trichlorobenzene    | 15.697         | 180  | 497        | 3.041     | ug/l # | 1        |
| -----                         |                |      |            |           |        |          |

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

Quant Time: Sep 20 06:00:45 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N090721W.M  
Quant Title : SW846 8260  
QLast Update : Fri Sep 17 11:02:11 2021  
Response via : Initial Calibration

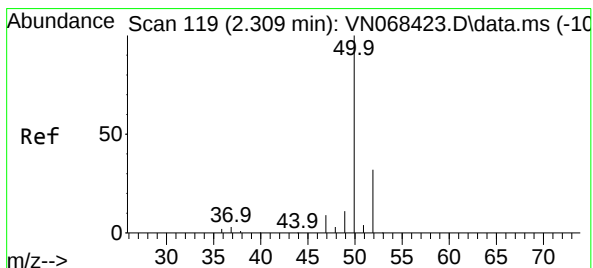
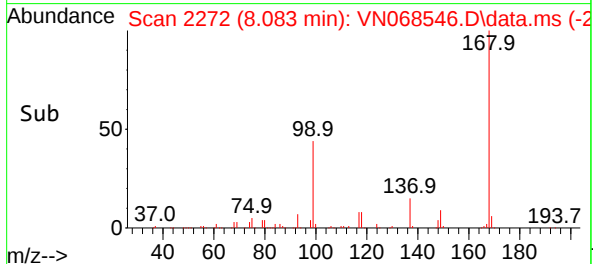
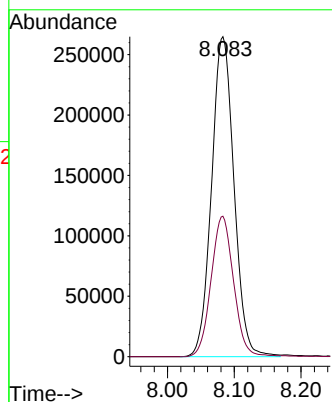
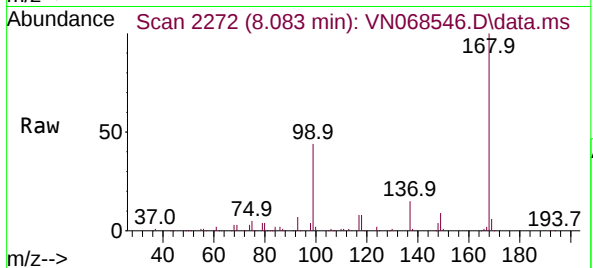




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.083 min Scan# 2272  
Delta R.T. -0.008 min  
Lab File: VN068546.D  
Acq: 18 Sep 2021 3:32

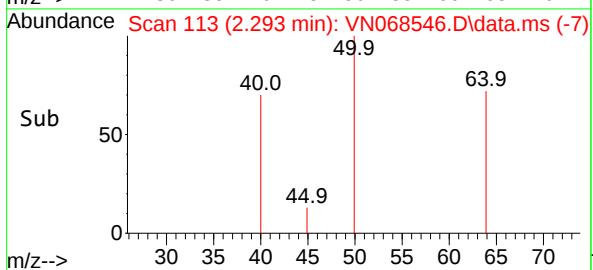
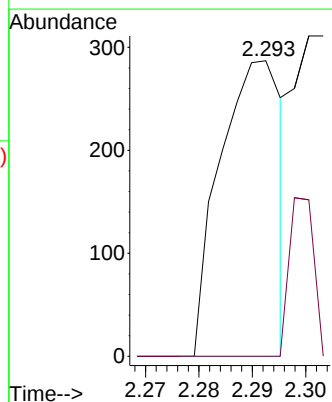
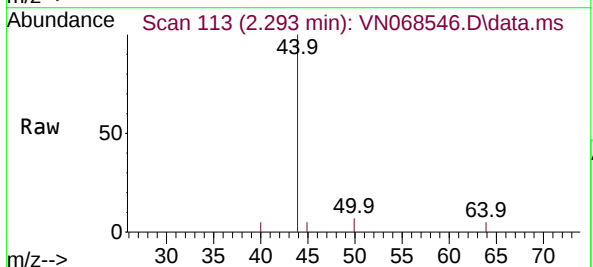
Instrument :  
MSVOA\_N  
ClientSampled :  
DUPLICATE-1

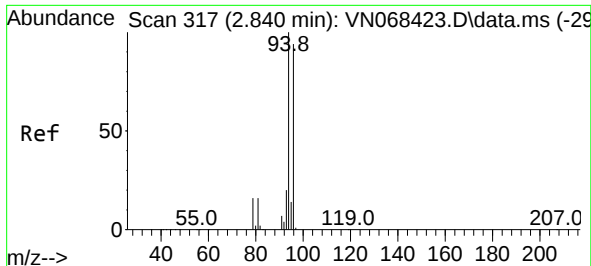
Tgt Ion:168 Resp: 618666  
Ion Ratio Lower Upper  
168 100  
99 43.9 38.2 57.4



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.293 min Scan# 113  
Delta R.T. -0.016 min  
Lab File: VN068546.D  
Acq: 18 Sep 2021 3:32

Tgt Ion: 50 Resp: 229  
Ion Ratio Lower Upper  
50 100  
52 0.0 25.8 38.6#

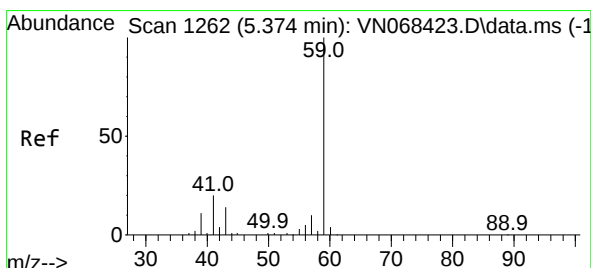
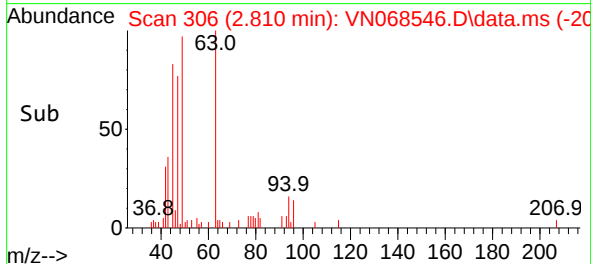
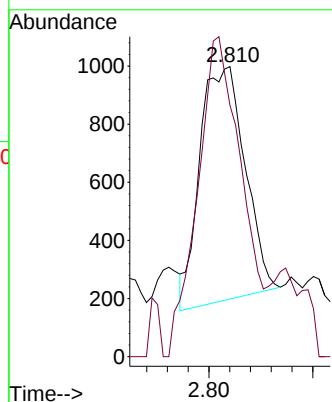
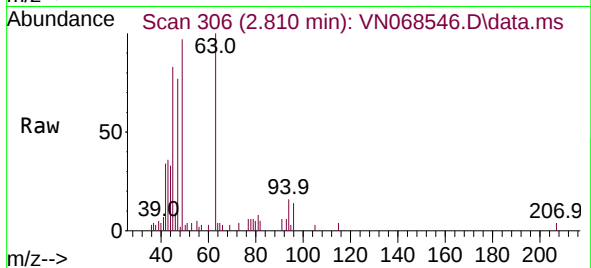




#5  
Bromomethane  
Concen: Below Cal  
RT: 2.810 min Scan# 306  
Delta R.T. -0.030 min  
Lab File: VN068546.D  
Acq: 18 Sep 2021 3:32

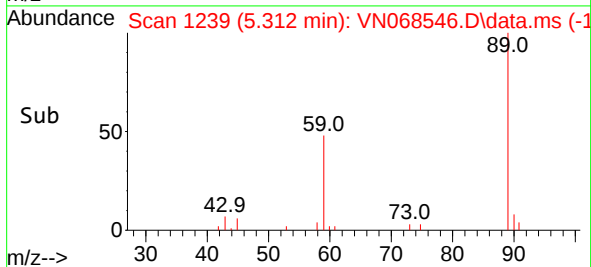
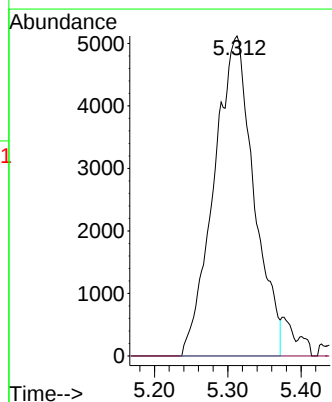
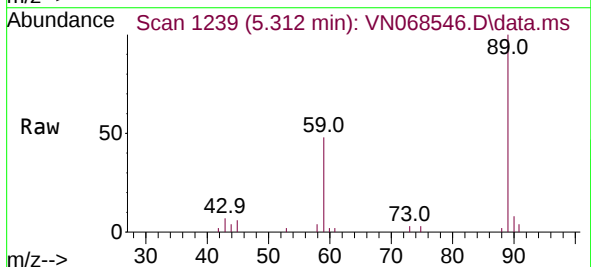
Instrument :  
MSVOA\_N  
ClientSampleId :  
DUPLICATE-1

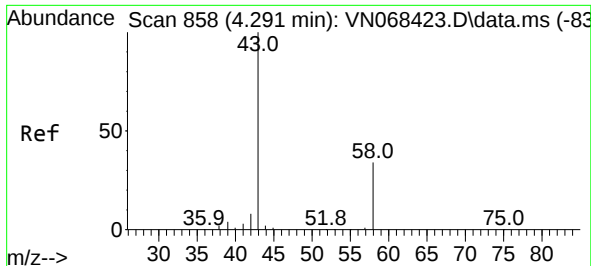
Tgt Ion: 94 Resp: 1220  
Ion Ratio Lower Upper  
94 100  
96 88.4 75.4 113.0



#11  
Tert butyl alcohol  
Concen: 12.403 ug/l  
RT: 5.312 min Scan# 1239  
Delta R.T. -0.062 min  
Lab File: VN068546.D  
Acq: 18 Sep 2021 3:32

Tgt Ion: 59 Resp: 19415  
Ion Ratio Lower Upper  
59 100  
57 0.0 4.3 6.5#

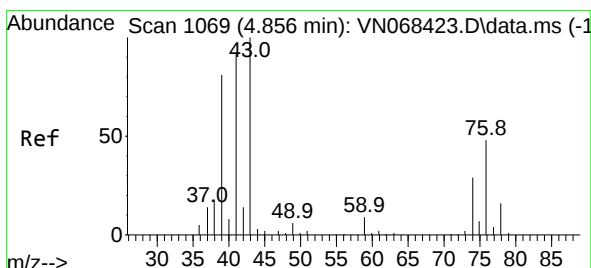
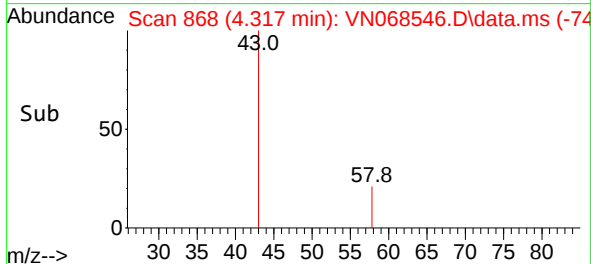
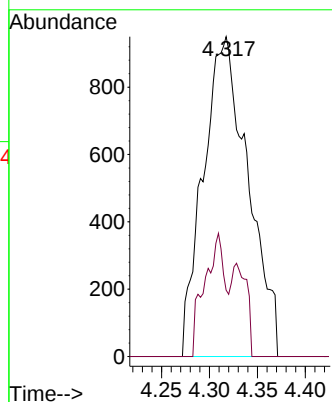
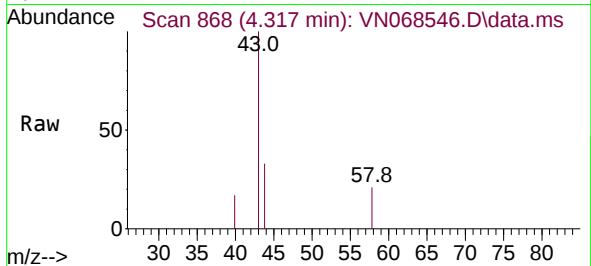




#16  
Acetone  
Concen: Below Cal  
RT: 4.317 min Scan# 868  
Delta R.T. 0.026 min  
Lab File: VN068546.D  
Acq: 18 Sep 2021 3:32

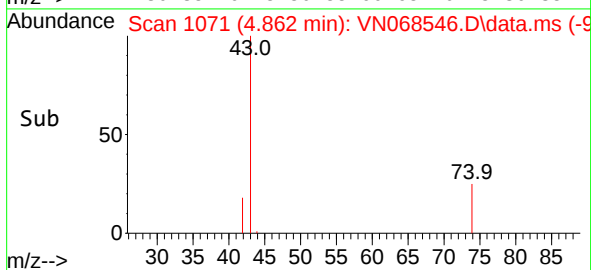
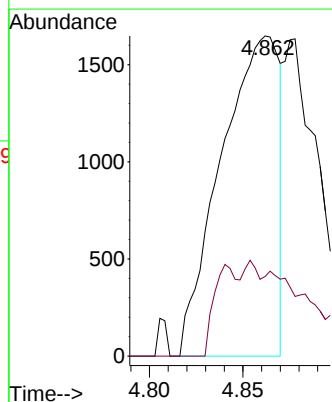
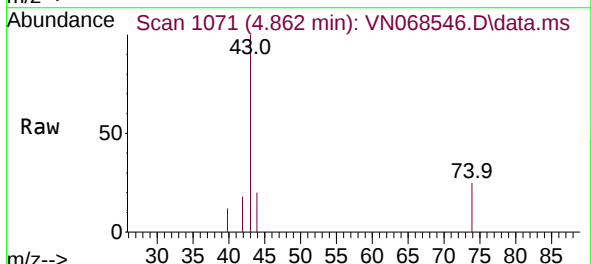
Instrument :  
MSVOA\_N  
ClientSampled :  
DUPLICATE-1

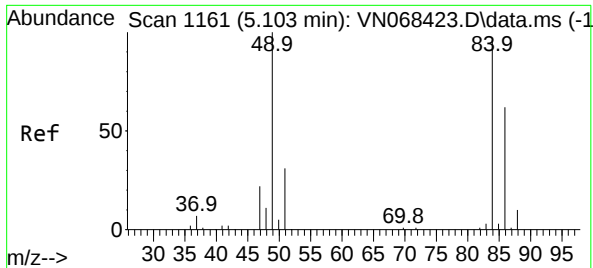
Tgt Ion: 43 Resp: 3086  
Ion Ratio Lower Upper  
43 100  
58 20.7 27.0 40.6#



#18  
Methyl Acetate  
Concen: Below Cal  
RT: 4.862 min Scan# 1071  
Delta R.T. 0.006 min  
Lab File: VN068546.D  
Acq: 18 Sep 2021 3:32

Tgt Ion: 43 Resp: 3553  
Ion Ratio Lower Upper  
43 100  
74 0.0 23.5 35.3#



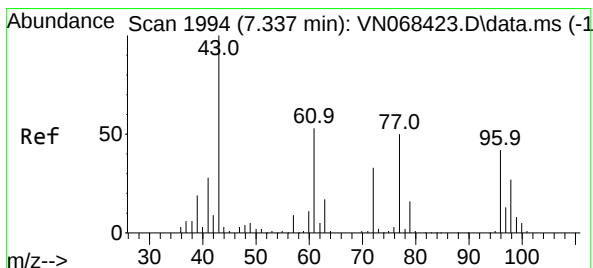
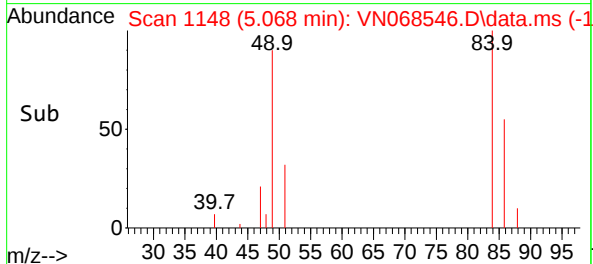
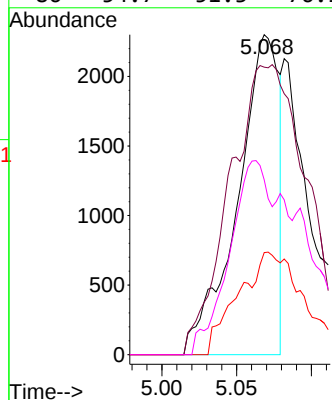
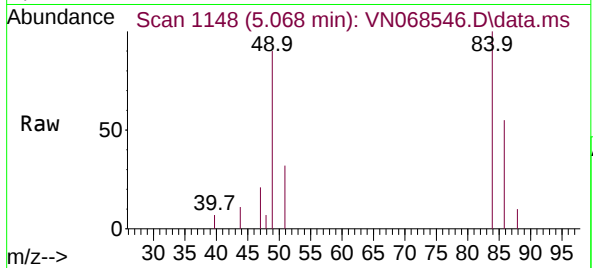


#20  
Methylene Chloride  
Concen: Below Cal  
RT: 5.068 min Scan# 1148  
Delta R.T. -0.035 min  
Lab File: VN068546.D  
Acq: 18 Sep 2021 3:32

Instrument :  
MSVOA\_N  
ClientSampleId :  
DUPLICATE-1

Tgt Ion: 84 Resp: 4400

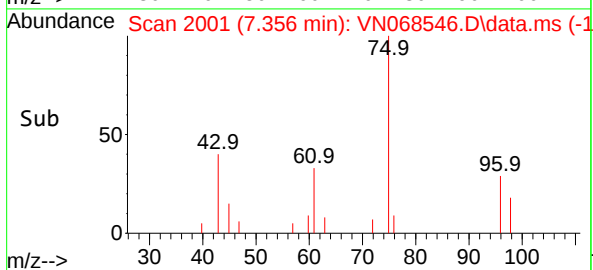
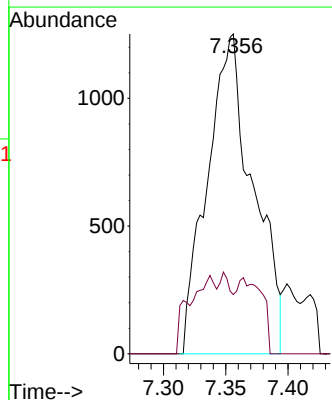
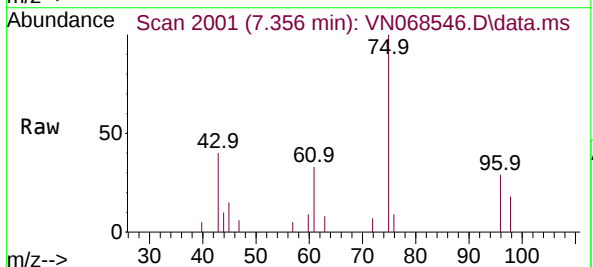
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 89.9  | 83.0  | 124.6 |
| 51  | 31.9  | 25.4  | 38.0  |
| 86  | 54.7  | 51.3  | 76.9  |

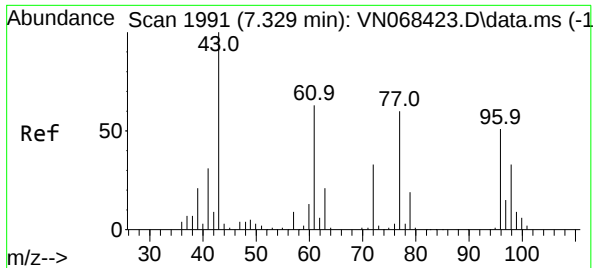


#25  
2-Butanone  
Concen: 1.161 ug/l  
RT: 7.356 min Scan# 2001  
Delta R.T. 0.019 min  
Lab File: VN068546.D  
Acq: 18 Sep 2021 3:32

Tgt Ion: 43 Resp: 3201

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 18.5  | 26.7  | 40.1# |

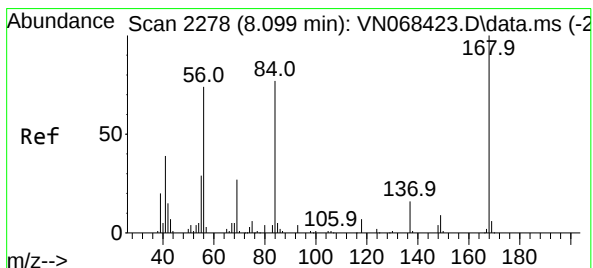
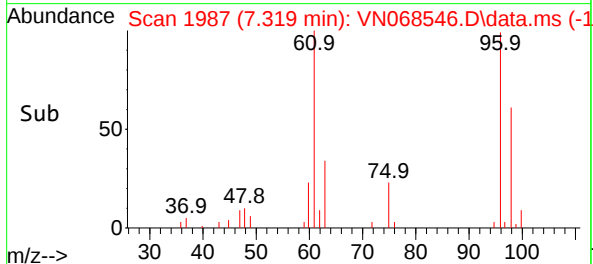
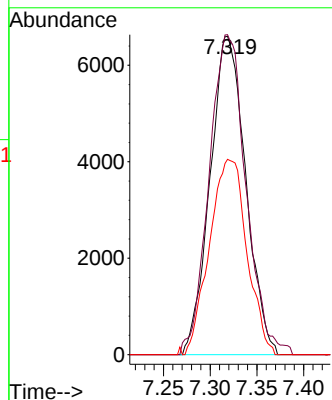
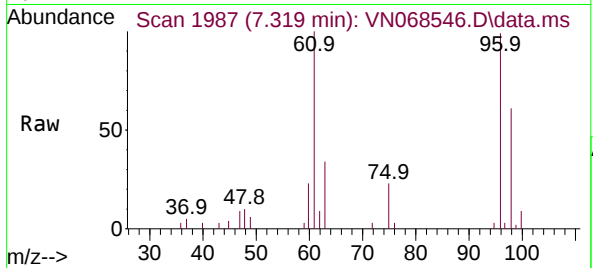




#27  
 cis-1,2-Dichloroethene  
 Concen: 2.686 ug/l  
 RT: 7.319 min Scan# 1987  
 Delta R.T. -0.010 min  
 Lab File: VN068546.D  
 Acq: 18 Sep 2021 3:32

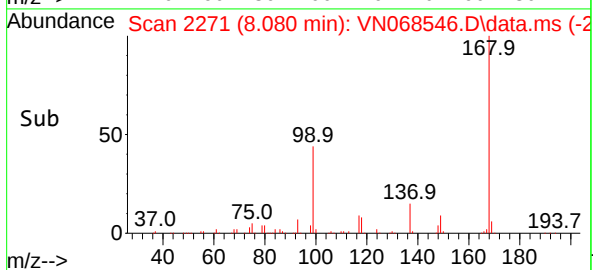
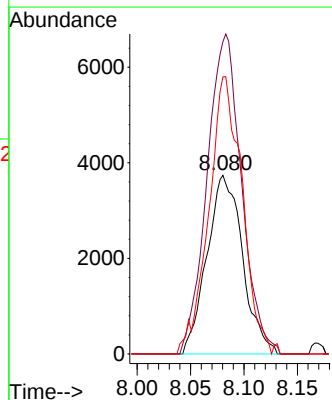
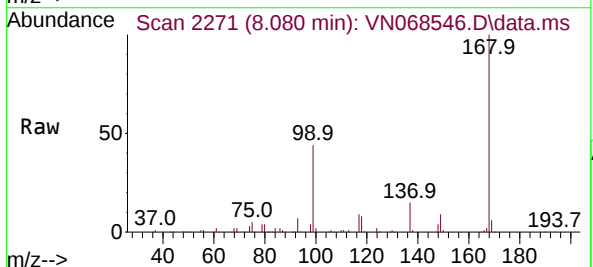
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 DUPLICATE-1

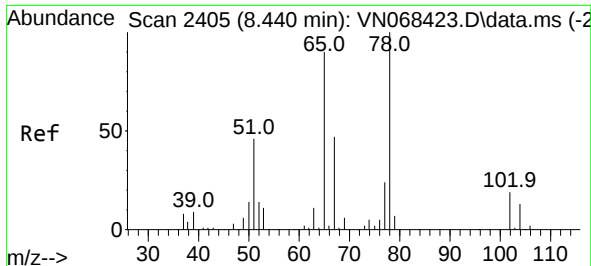
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 17503 |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 104.2 | 0.0   | 246.4 |
| 98       | 64.5  | 0.0   | 130.4 |



#31  
 Cyclohexane  
 Concen: 1.008 ug/l  
 RT: 8.080 min Scan# 2271  
 Delta R.T. -0.019 min  
 Lab File: VN068546.D  
 Acq: 18 Sep 2021 3:32

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 56    | Resp: | 8669   |
| Ion      | Ratio | Lower | Upper  |
| 56       | 100   |       |        |
| 69       | 174.8 | 29.4  | 44.0#  |
| 84       | 155.1 | 83.6  | 125.4# |



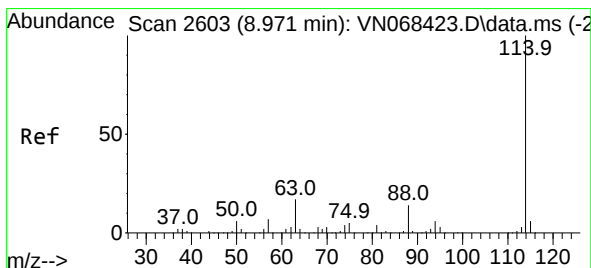
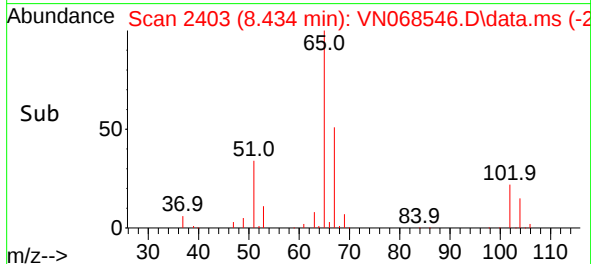
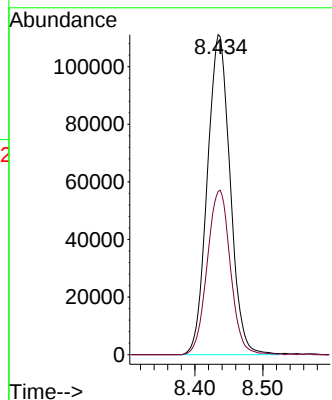
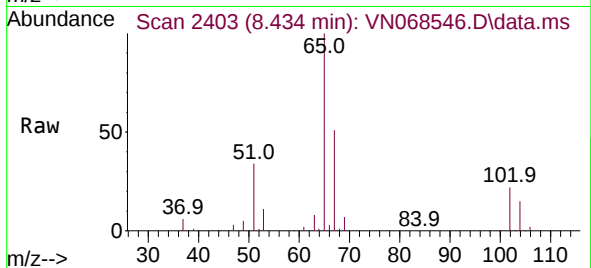


#33

1,2-Dichloroethane-d4  
Concen: 45.626 ug/l  
RT: 8.434 min Scan# 2403  
Delta R.T. -0.006 min  
Lab File: VN068546.D  
Acq: 18 Sep 2021 3:32

Instrument :  
MSVOA\_N  
ClientSampled :  
DUPLICATE-1

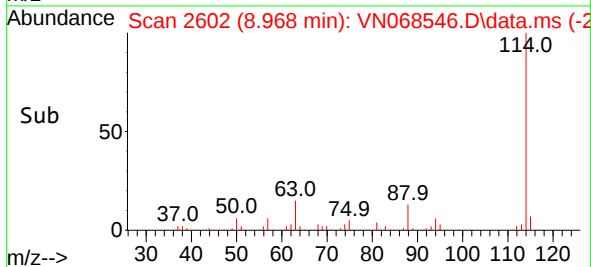
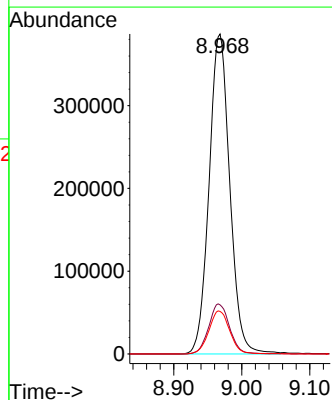
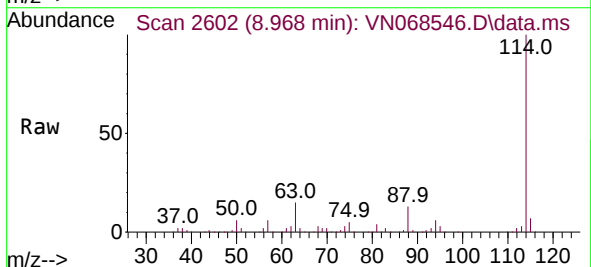
Tgt Ion: 65 Resp: 258929  
Ion Ratio Lower Upper  
65 100  
67 52.2 0.0 104.0

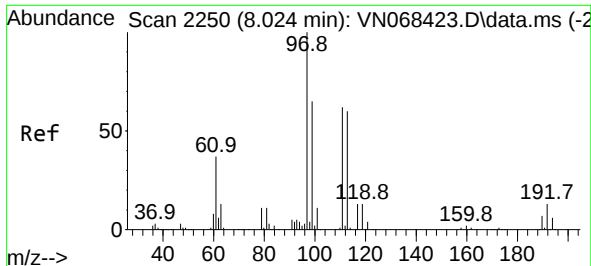


#34

1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.968 min Scan# 2602  
Delta R.T. -0.003 min  
Lab File: VN068546.D  
Acq: 18 Sep 2021 3:32

Tgt Ion: 114 Resp: 818090  
Ion Ratio Lower Upper  
114 100  
63 15.4 0.0 33.2  
88 13.3 0.0 28.4

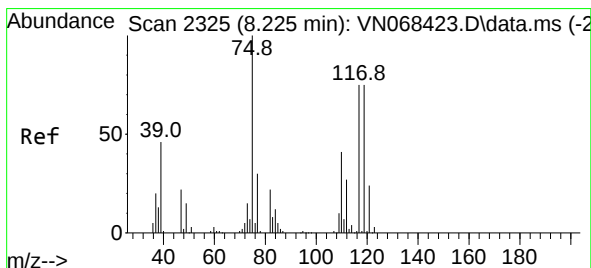
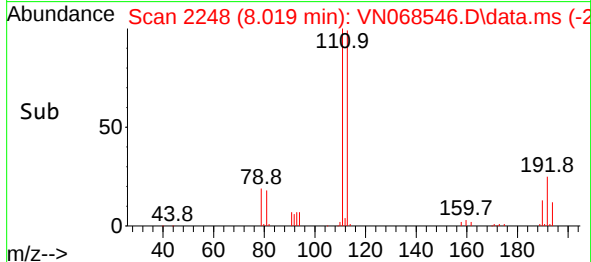
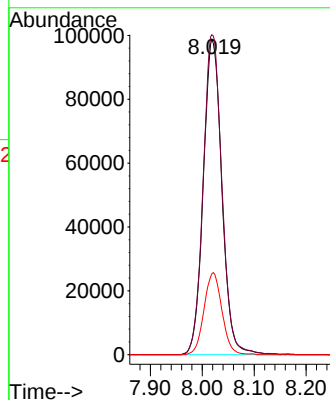
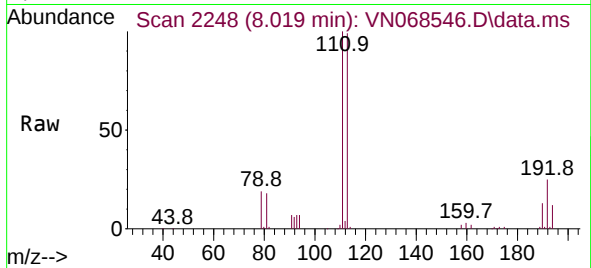




#35  
Dibromofluoromethane  
Concen: 49.690 ug/l  
RT: 8.019 min Scan# 2248  
Delta R.T. -0.005 min  
Lab File: VN068546.D  
Acq: 18 Sep 2021 3:32

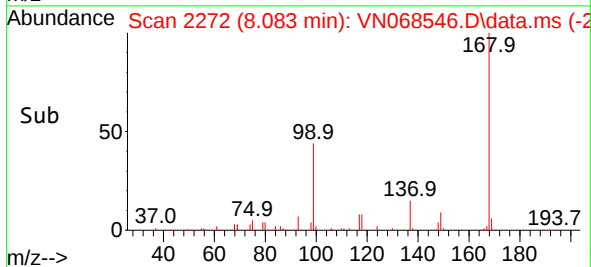
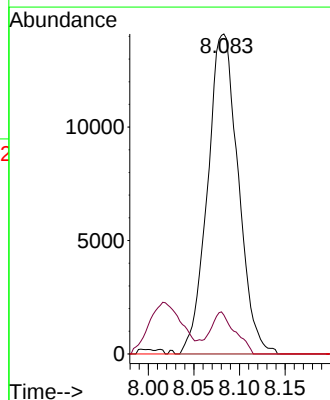
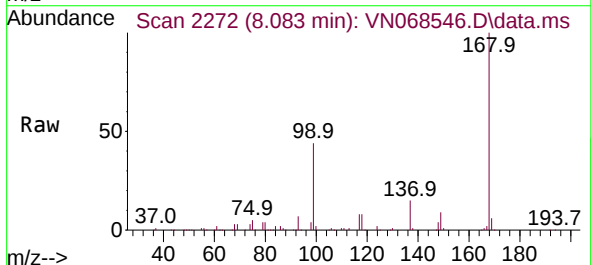
Instrument :  
MSVOA\_N  
ClientSampled :  
DUPLICATE-1

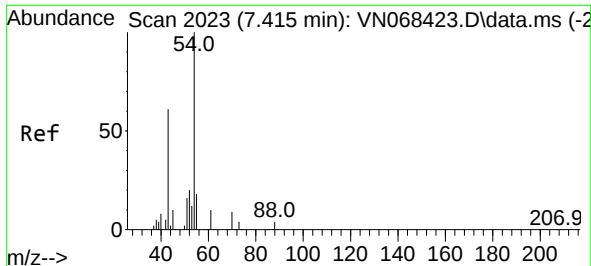
Tgt Ion:113 Resp: 245179  
Ion Ratio Lower Upper  
113 100  
111 102.4 81.1 121.7  
192 25.1 17.7 26.5



#36  
1,1-Dichloropropene  
Concen: 4.846 ug/l  
RT: 8.083 min Scan# 2272  
Delta R.T. -0.142 min  
Lab File: VN068546.D  
Acq: 18 Sep 2021 3:32

Tgt Ion: 75 Resp: 33052  
Ion Ratio Lower Upper  
75 100  
110 10.4 20.8 62.5#  
77 0.0 25.0 37.6#





#37

Ethyl Acetate

Concen: 0.617 ug/l

RT: 7.356 min Scan# 2001

Delta R.T. -0.059 min

Lab File: VN068546.D

Acq: 18 Sep 2021 3:32

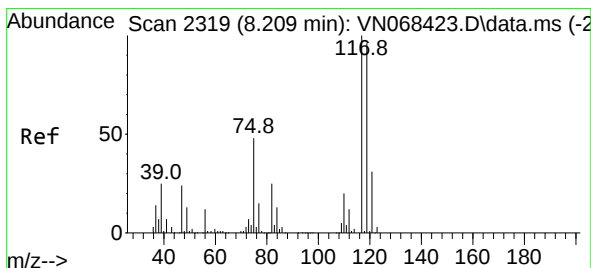
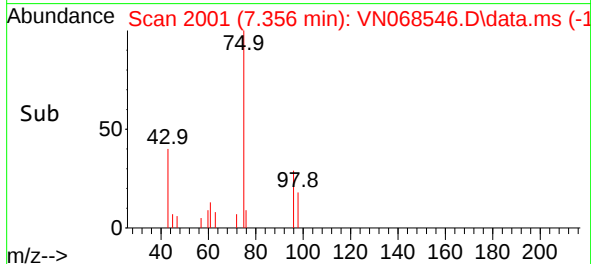
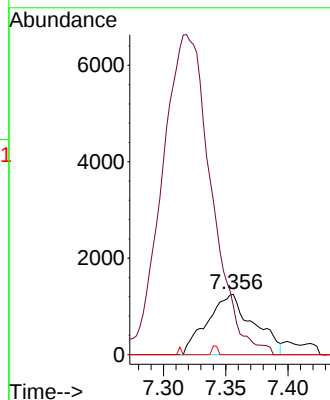
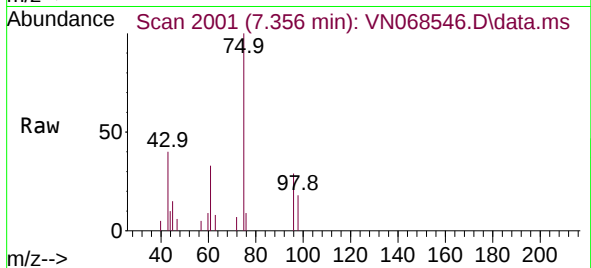
Instrument :

MSVOA\_N

ClientSampled :

DUPLICATE-1

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 3201  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 0.0   | 12.4  | 18.6# |
| 70       | 1.8   | 9.6   | 14.4# |



#38

Carbon Tetrachloride

Concen: 6.322 ug/l

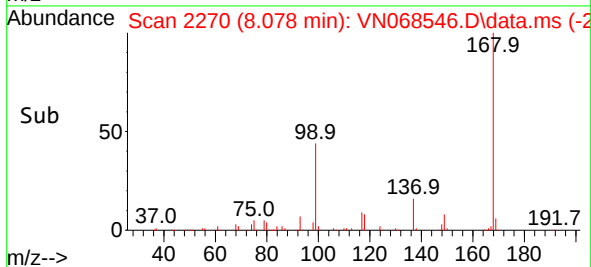
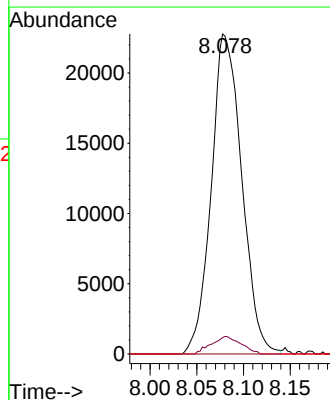
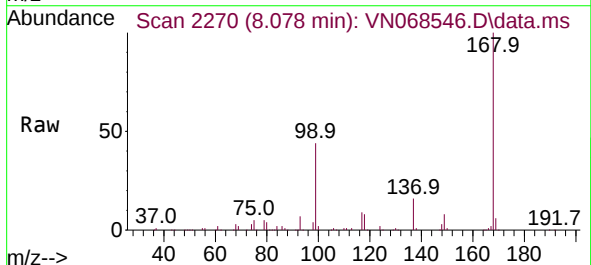
RT: 8.078 min Scan# 2270

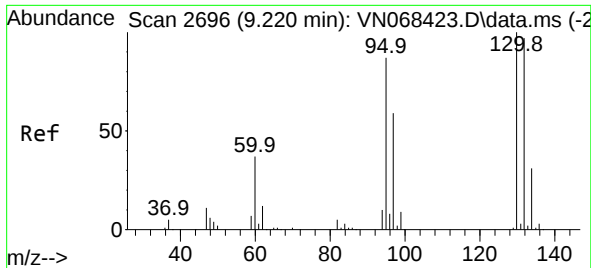
Delta R.T. -0.131 min

Lab File: VN068546.D

Acq: 18 Sep 2021 3:32

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 51660  |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 5.1   | 76.6  | 114.8# |
| 121      | 0.0   | 24.5  | 36.7#  |

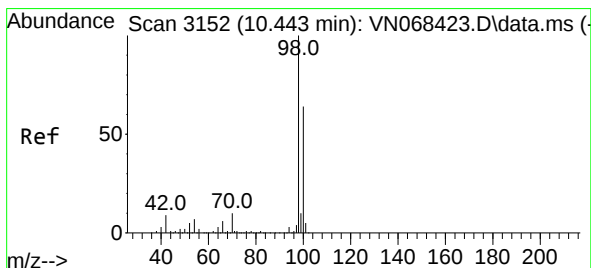
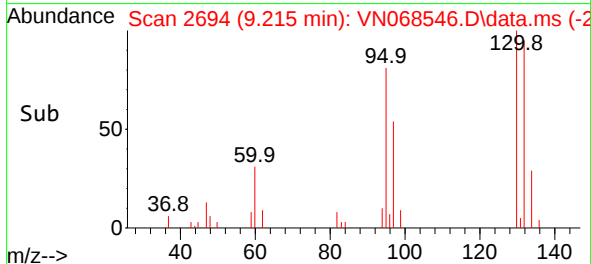
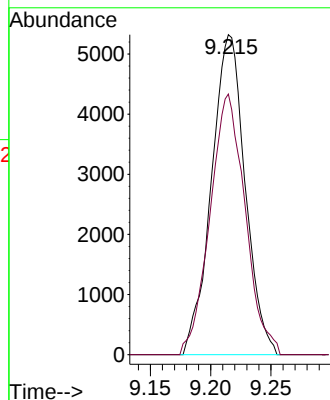
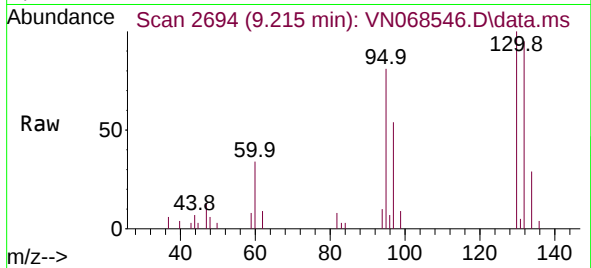




#44  
Trichloroethene  
Concen: 1.618 ug/l  
RT: 9.215 min Scan# 2694  
Delta R.T. -0.005 min  
Lab File: VN068546.D  
Acq: 18 Sep 2021 3:32

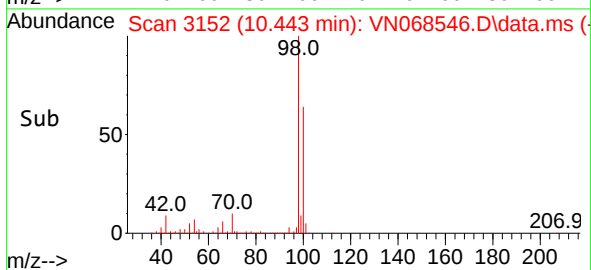
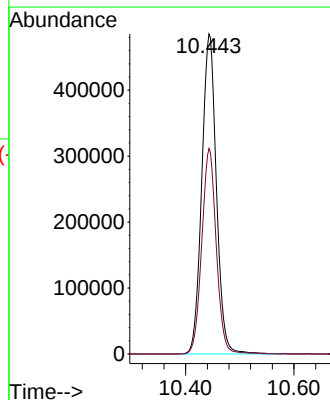
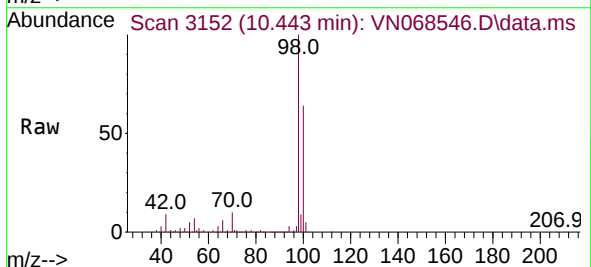
Instrument :  
MSVOA\_N  
ClientSampled :  
DUPLICATE-1

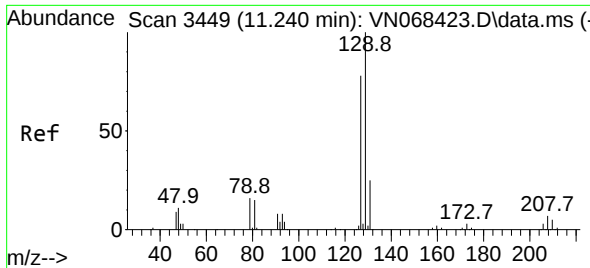
Tgt Ion:130 Resp: 10343  
Ion Ratio Lower Upper  
130 100  
95 81.5 0.0 173.8



#50  
Toluene-d8  
Concen: 45.271 ug/l  
RT: 10.443 min Scan# 3152  
Delta R.T. 0.000 min  
Lab File: VN068546.D  
Acq: 18 Sep 2021 3:32

Tgt Ion: 98 Resp: 908779  
Ion Ratio Lower Upper  
98 100  
100 63.7 51.0 76.6

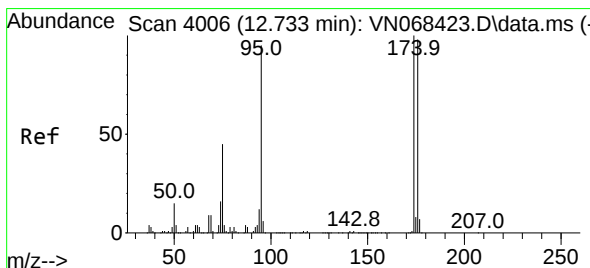
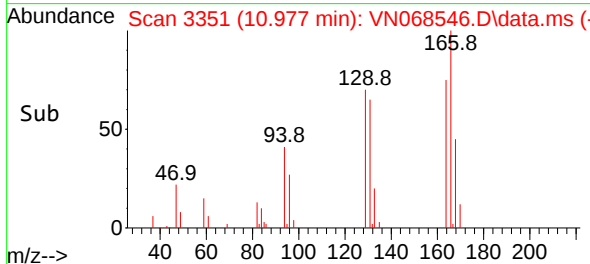
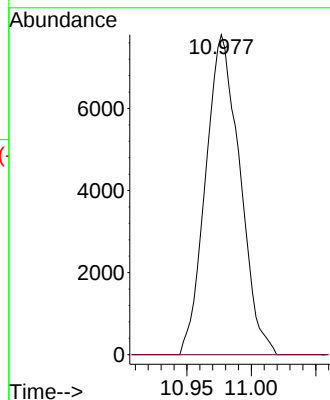
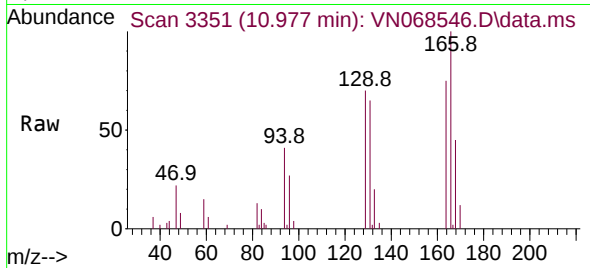




#60  
Dibromochloromethane  
Concen: 3.707 ug/l  
RT: 10.977 min Scan# 3351  
Delta R.T. -0.263 min  
Lab File: VN068546.D  
Acq: 18 Sep 2021 3:32

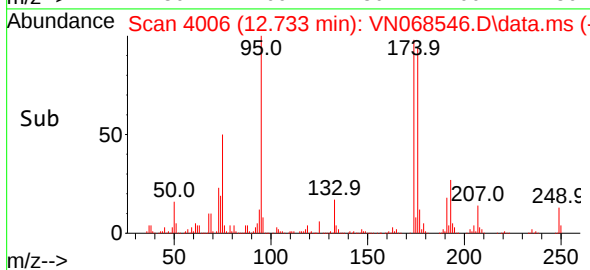
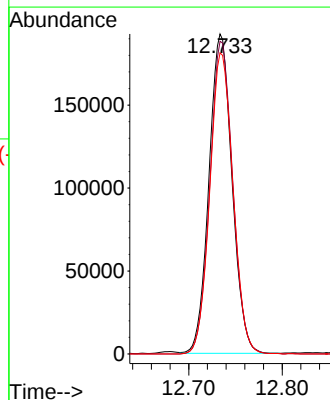
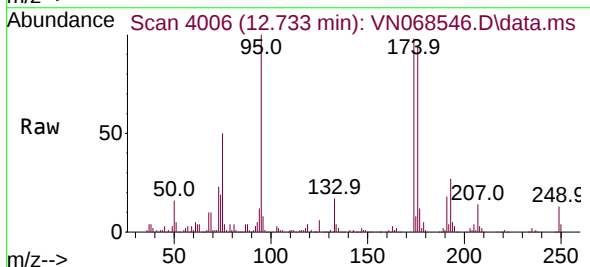
Instrument :  
MSVOA\_N  
ClientSampleId :  
DUPLICATE-1

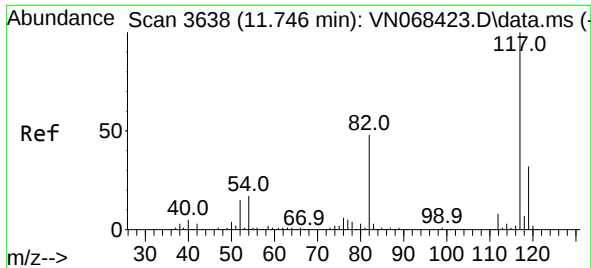
Tgt Ion:129 Resp: 14389  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.5 115.3#



#62  
4-Bromofluorobenzene  
Concen: 49.445 ug/l  
RT: 12.733 min Scan# 4006  
Delta R.T. 0.000 min  
Lab File: VN068546.D  
Acq: 18 Sep 2021 3:32

Tgt Ion: 95 Resp: 329493  
Ion Ratio Lower Upper  
95 100  
174 97.5 0.0 214.0  
176 95.1 0.0 205.4

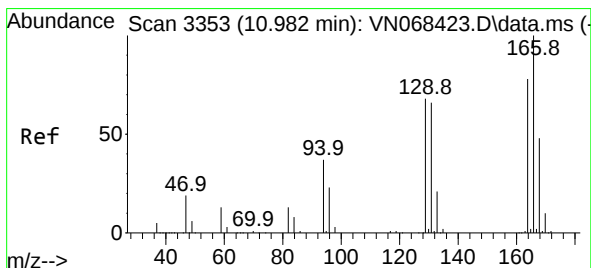
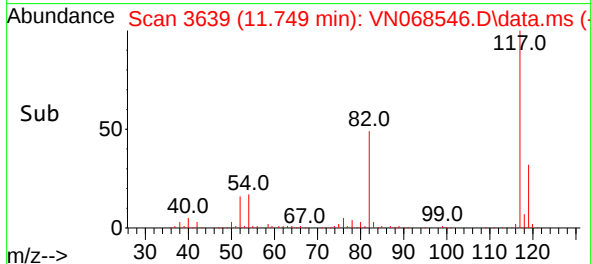
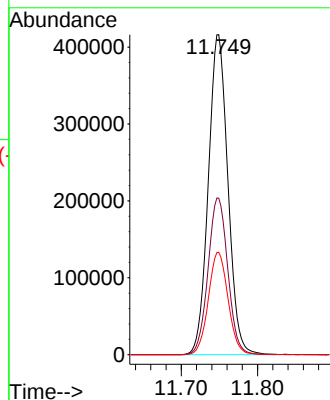
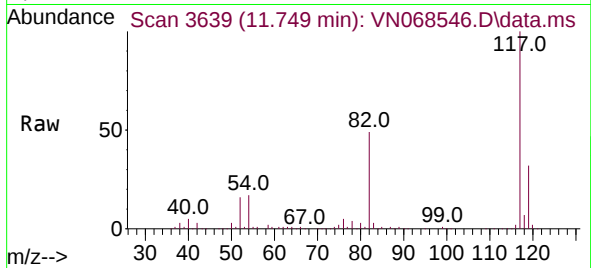




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.749 min Scan# 3639  
Delta R.T. 0.003 min  
Lab File: VN068546.D  
Acq: 18 Sep 2021 3:32

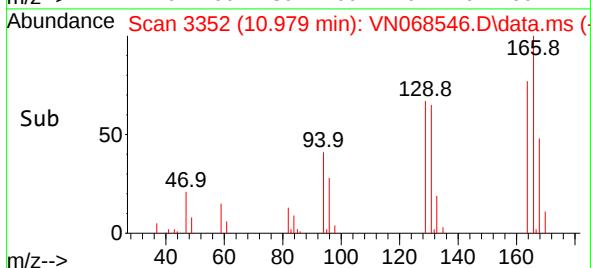
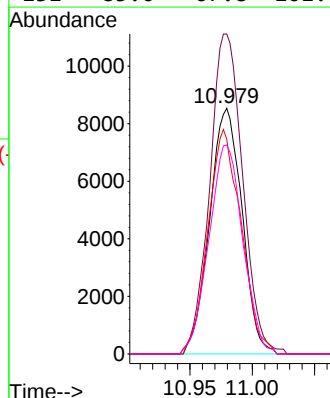
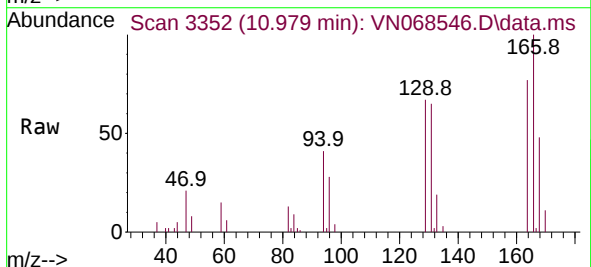
Instrument :  
MSVOA\_N  
ClientSampleId :  
DUPLICATE-1

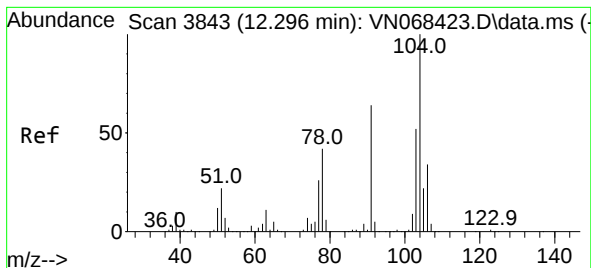
Tgt Ion:117 Resp: 742210  
Ion Ratio Lower Upper  
117 100  
82 48.9 38.7 58.1  
119 32.0 25.5 38.3



#64  
Tetrachloroethene  
Concen: 2.344 ug/l  
RT: 10.979 min Scan# 3352  
Delta R.T. -0.003 min  
Lab File: VN068546.D  
Acq: 18 Sep 2021 3:32

Tgt Ion:164 Resp: 15422  
Ion Ratio Lower Upper  
164 100  
166 130.3 102.9 154.3  
129 87.4 70.1 105.1  
131 85.0 67.8 101.6





#70

Styrene

Concen: 1.774 ug/l

RT: 12.296 min Scan# 3843

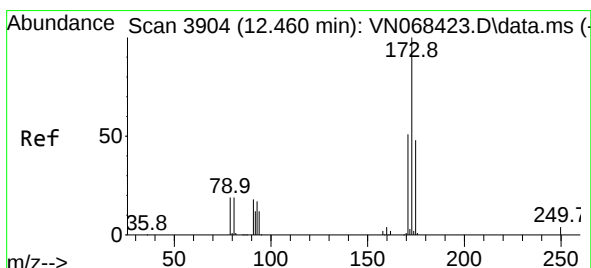
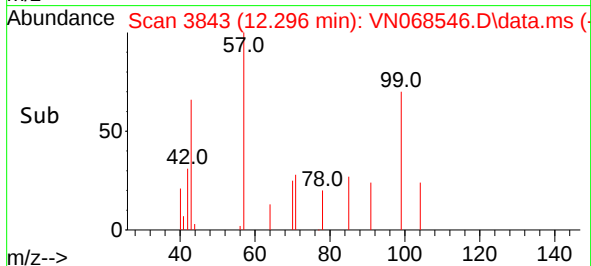
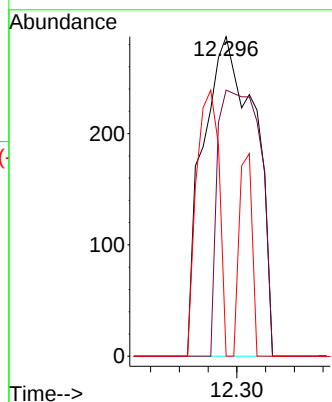
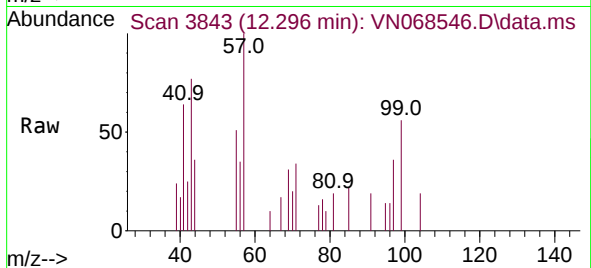
Delta R.T. 0.000 min

Lab File: VN068546.D

Acq: 18 Sep 2021 3:32

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 104   | Resp: | 360   |
| Ion Ratio | Lower | Upper |       |
| 104       | 100   |       |       |
| 78        | 68.3  | 36.2  | 54.2# |
| 103       | 35.8  | 44.4  | 66.6# |

Instrument :  
MSVOA\_N  
ClientSampled :  
DUPLICATE-1



#71

Bromoform

Concen: 2.606 ug/l

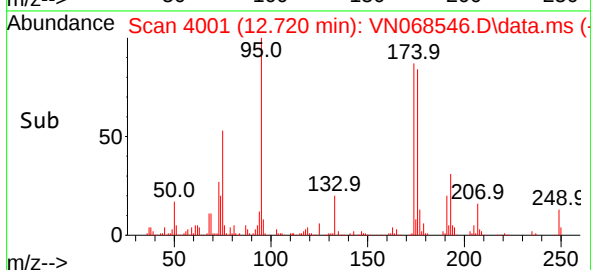
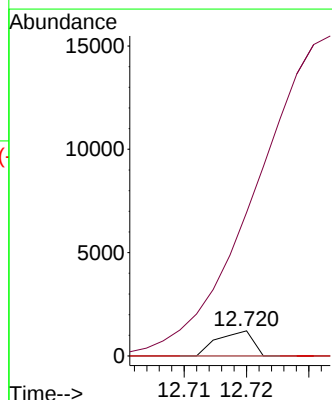
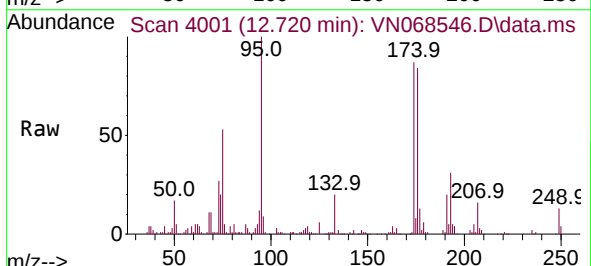
RT: 12.720 min Scan# 4001

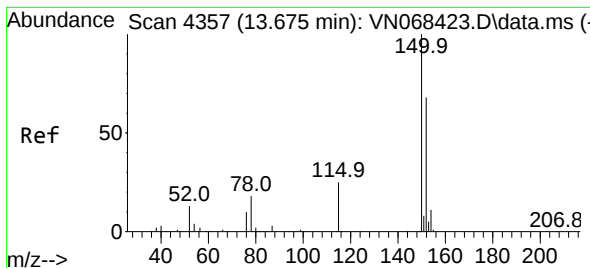
Delta R.T. 0.260 min

Lab File: VN068546.D

Acq: 18 Sep 2021 3:32

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 173   | Resp: | 478   |
| Ion Ratio | Lower | Upper |       |
| 173       | 100   |       |       |
| 175       | 0.0   | 24.1  | 72.3# |
| 254       | 0.0   | 0.0   | 0.0   |





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.677 min Scan# 4358

Delta R.T. 0.002 min

Lab File: VN068546.D

Acq: 18 Sep 2021 3:32

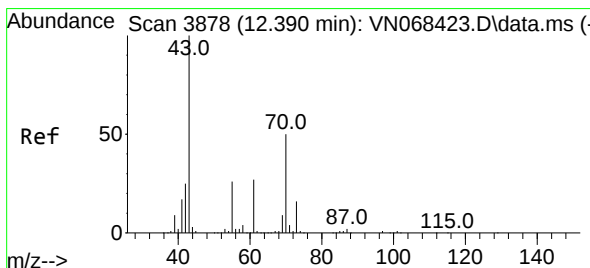
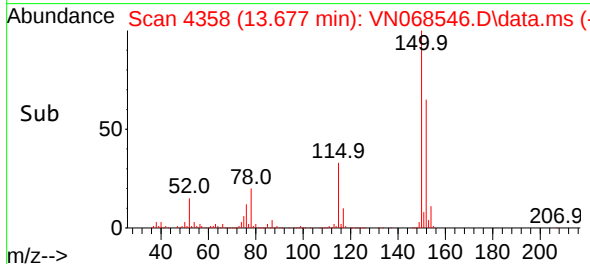
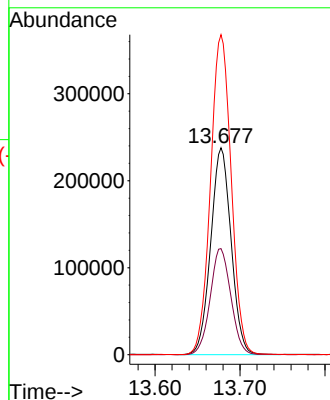
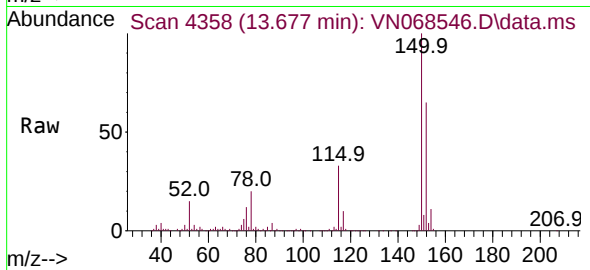
Tgt Ion:152 Resp: 397388

Ion Ratio Lower Upper

152 100

115 51.8 25.6 76.6

150 156.5 0.0 346.8



#74

N-ethyl acetate

Concen: 1.646 ug/l

RT: 12.371 min Scan# 3871

Delta R.T. -0.019 min

Lab File: VN068546.D

Acq: 18 Sep 2021 3:32

Tgt Ion: 43 Resp: 10379

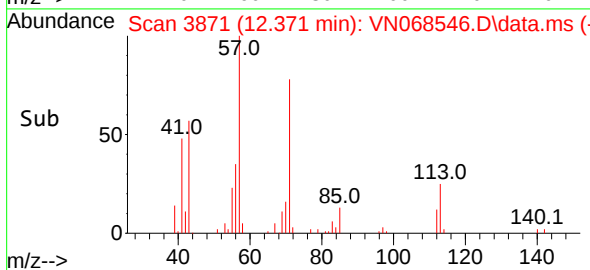
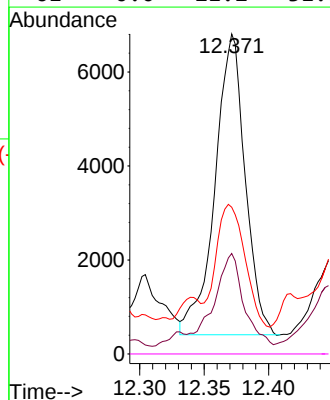
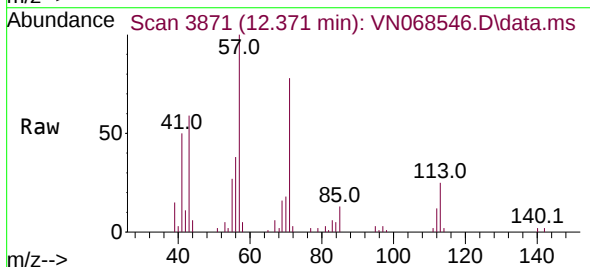
Ion Ratio Lower Upper

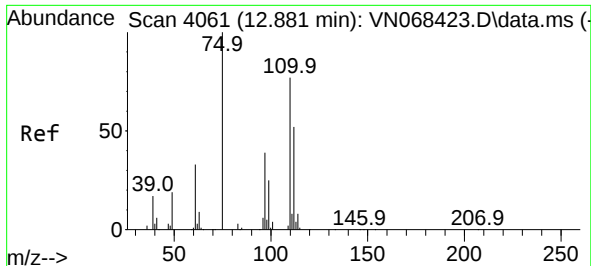
43 100

70 28.3 40.0 60.0#

55 38.6 21.1 31.7#

61 0.0 21.2 31.8#

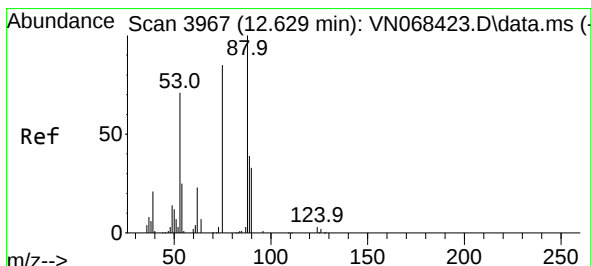
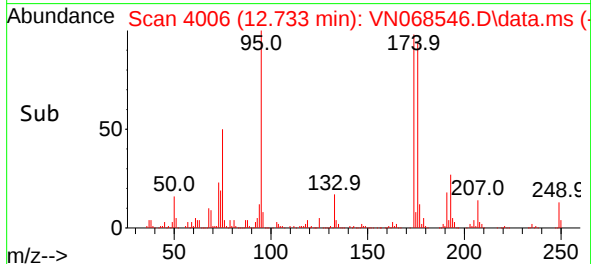
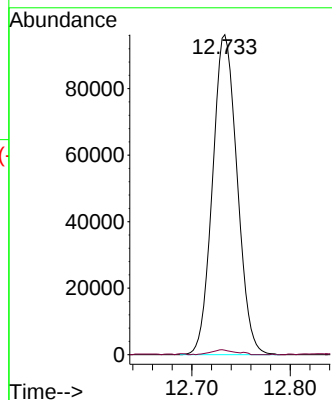
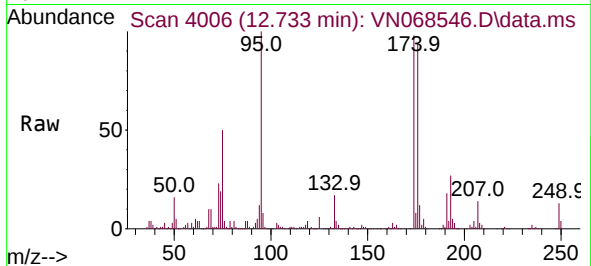




#76  
1,2,3-Trichloropropane  
Concen: 30.169 ug/l  
RT: 12.733 min Scan# 4006  
Delta R.T. -0.148 min  
Lab File: VN068546.D  
Acq: 18 Sep 2021 3:32

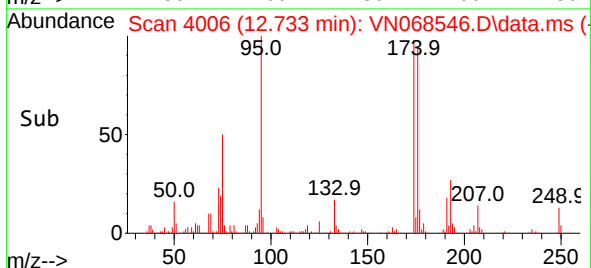
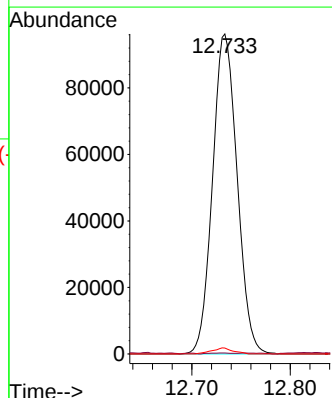
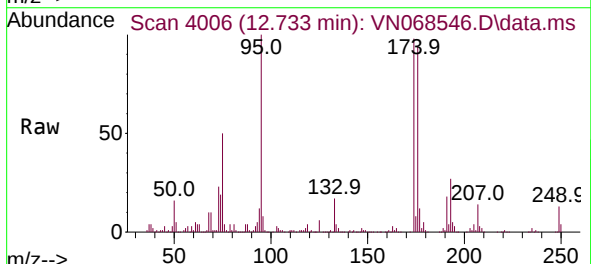
Instrument :  
MSVOA\_N  
ClientSampled :  
DUPLICATE-1

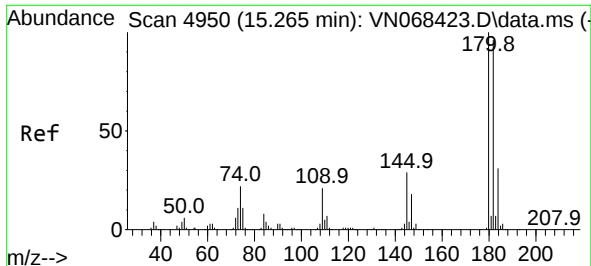
Tgt Ion: 75 Resp: 167245  
Ion Ratio Lower Upper  
75 100  
77 1.4 100.9 302.7#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 93.271 ug/l  
RT: 12.733 min Scan# 4006  
Delta R.T. 0.104 min  
Lab File: VN068546.D  
Acq: 18 Sep 2021 3:32

Tgt Ion: 75 Resp: 167245  
Ion Ratio Lower Upper  
75 100  
53 0.3 70.6 105.8#  
89 1.6 39.5 59.3#

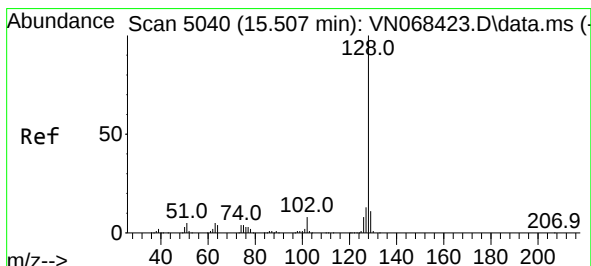
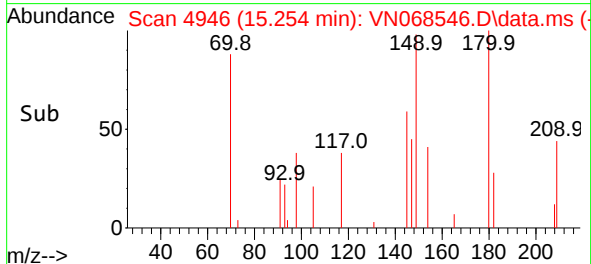
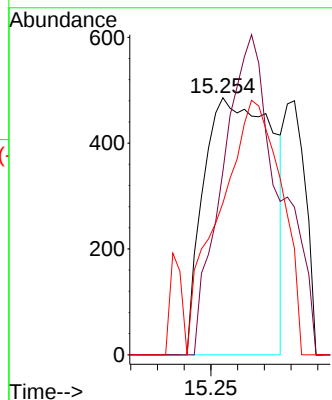
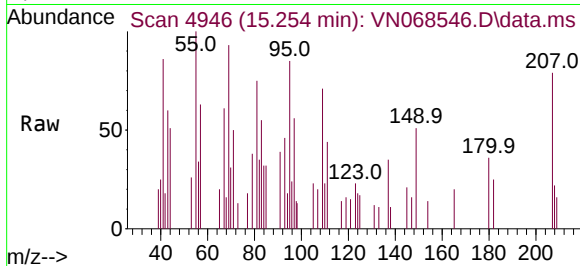




#93  
1,2,4-Trichlorobenzene  
Concen: 3.069 ug/l  
RT: 15.254 min Scan# 4946  
Delta R.T. -0.011 min  
Lab File: VN068546.D  
Acq: 18 Sep 2021 3:32

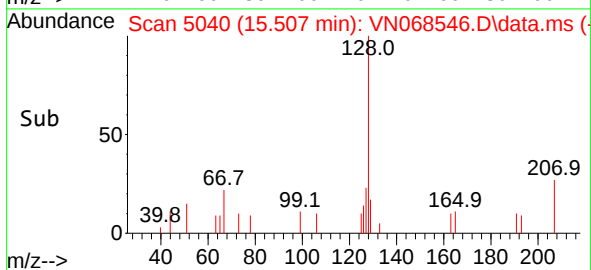
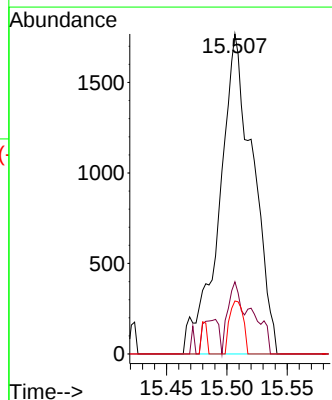
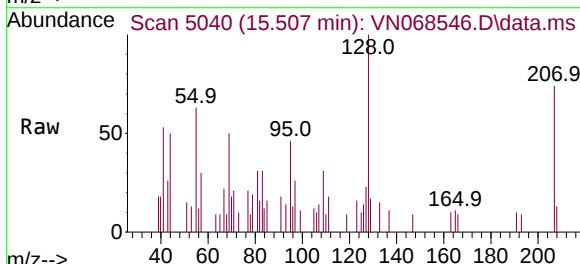
Instrument :  
MSVOA\_N  
ClientSampleId :  
DUPLICATE-1

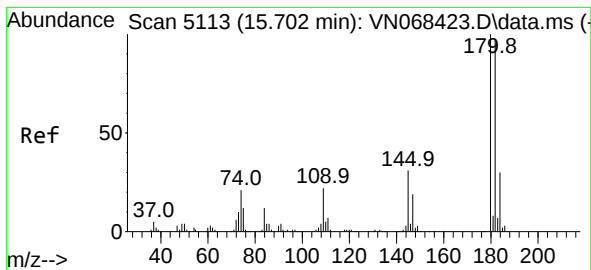
|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 869        |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 103.7 | 47.5 142.6 |
| 145         | 89.2  | 14.1 42.4# |



#95  
Naphthalene  
Concen: 3.700 ug/l  
RT: 15.507 min Scan# 5040  
Delta R.T. -0.000 min  
Lab File: VN068546.D  
Acq: 18 Sep 2021 3:32

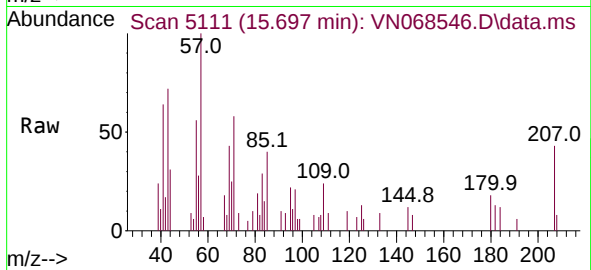
|             |       |            |
|-------------|-------|------------|
| Tgt Ion:128 | Resp: | 3443       |
| Ion Ratio   | Lower | Upper      |
| 128         | 100   |            |
| 127         | 9.2   | 10.6 15.8# |
| 129         | 6.7   | 8.6 13.0#  |





#96  
 1,2,3-Trichlorobenzene  
 Concen: 3.041 ug/l  
 RT: 15.697 min Scan# 5111  
 Delta R.T. -0.005 min  
 Lab File: VN068546.D  
 Acq: 18 Sep 2021 3:32

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 DUPLICATE-1



Tgt Ion:180 Resp: 497  
 Ion Ratio Lower Upper  
 180 100  
 182 199.2 47.9 143.6#  
 145 159.4 15.2 45.5#

