

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN031921\  
 Data File : VN066273.D  
 Acq On : 19 Mar 2021 12:00  
 Operator : JC/MD  
 Sample : VN0319MBL01  
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0319MBL01

Quant Time: Mar 20 04:55:36 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N031621W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 17 05:05:15 2021  
 Response via : Initial Calibration

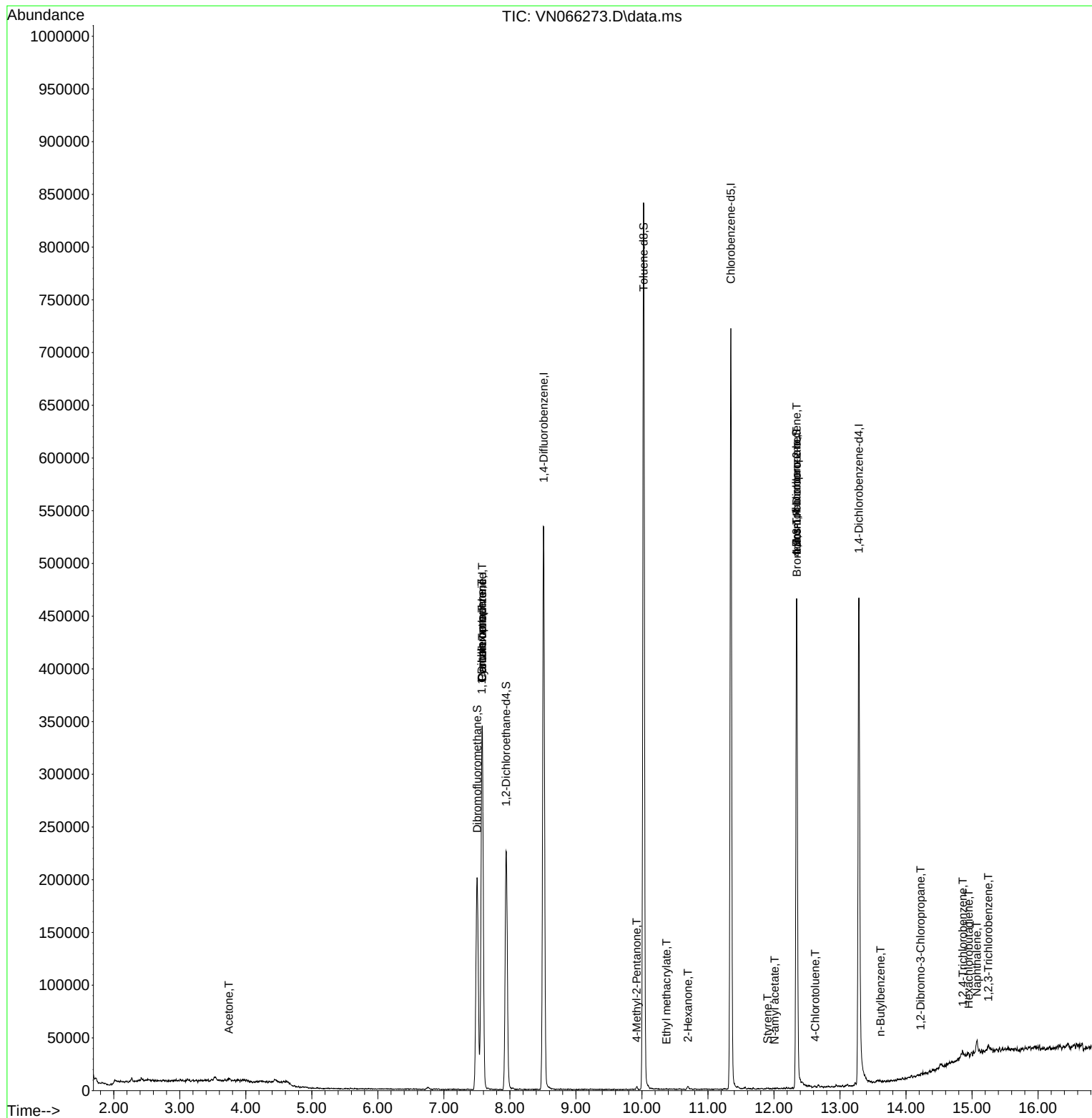
| Compound                      | R.T.           | QIon | Response   | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|-----------|--------|----------|
| -----                         |                |      |            |           |        |          |
| Internal Standards            |                |      |            |           |        |          |
| 1) Pentafluorobenzene         | 7.582          | 168  | 314381     | 50.00     | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.512          | 114  | 474654     | 50.00     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.347         | 117  | 428134     | 50.00     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.286         | 152  | 152528     | 50.00     | ug/l   | 0.00     |
|                               |                |      |            |           |        |          |
| System Monitoring Compounds   |                |      |            |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 7.944          | 65   | 190905     | 42.15     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = | 84.30%    |        |          |
| 35) Dibromofluoromethane      | 7.504          | 113  | 157351     | 51.96     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 103.92%   |        |          |
| 50) Toluene-d8                | 10.025         | 98   | 576314     | 49.22     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = | 98.44%    |        |          |
| 62) 4-Bromofluorobenzene      | 12.342         | 95   | 164189     | 38.90     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 77.80%#   |        |          |
|                               |                |      |            |           |        |          |
| Target Compounds              |                |      |            |           |        | Qvalue   |
| 13) Acrolein                  | 3.532          | 56   | 3419       | Below Cal | #      | 74       |
| 16) Acetone                   | 3.744          | 43   | 2789       | 1.28      | ug/l # | 85       |
| 31) Cyclohexane               | 7.579          | 56   | 5315       | 0.78      | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 7.576          | 75   | 20472      | 4.26      | ug/l # | 52       |
| 38) Carbon Tetrachloride      | 7.582          | 117  | 24319      | 5.64      | ug/l # | 18       |
| 51) 4-Methyl-2-Pentanone      | 9.921          | 43   | 1982       | 0.31      | ug/l # | 68       |
| 56) Ethyl methacrylate        | 10.374         | 69   | 53         | 2.17      | ug/l # | 66       |
| 59) 2-Hexanone                | 10.698         | 43   | 2866       | 1.90      | ug/l   | 81       |
| 70) Styrene                   | 11.902         | 104  | 25         | 2.15      | ug/l # | 1        |
| 71) Bromoform                 | 12.348         | 173  | 1400       | 0.55      | ug/l # | 1        |
| 74) N-amyl acetate            | 12.012         | 43   | 164        | 2.19      | ug/l # | 49       |
| 76) 1,2,3-Trichloropropane    | 12.345         | 75   | 77558      | 19.69     | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.345         | 75   | 77558      | 58.92     | ug/l # | 11       |
| 82) 4-Chlorotoluene           | 12.624         | 91   | 535        | 0.53      | ug/l   | 79       |
| 89) n-Butylbenzene            | 13.616         | 91   | 210        | 2.26      | ug/l   | 78       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.222         | 75   | 164        | 1.03      | ug/l # | 8        |
| 93) 1,2,4-Trichlorobenzene    | 14.861         | 180  | 2182       | 0.71      | ug/l   | 95       |
| 94) Hexachlorobutadiene       | 14.949         | 225  | 514        | 0.35      | ug/l # | 75       |
| 95) Naphthalene               | 15.075         | 128  | 13176      | 1.47      | ug/l   | 96       |
| 96) 1,2,3-Trichlorobenzene    | 15.247         | 180  | 1613       | 0.53      | ug/l   | 72       |
| -----                         |                |      |            |           |        |          |

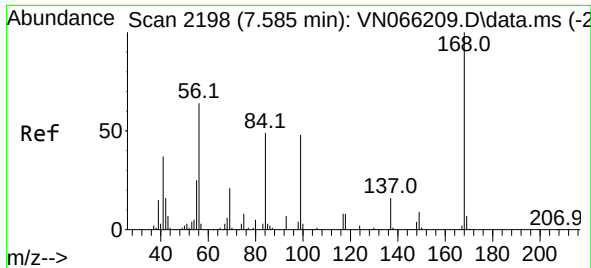
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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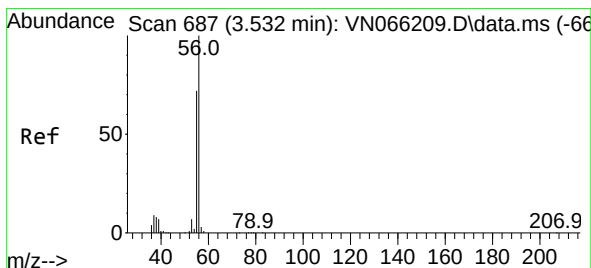
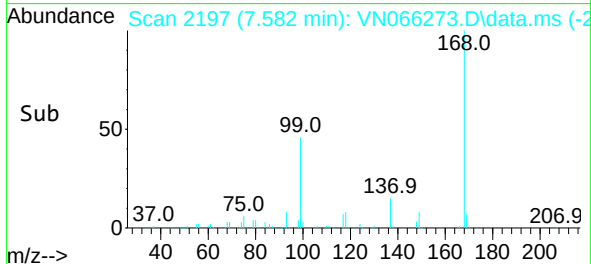
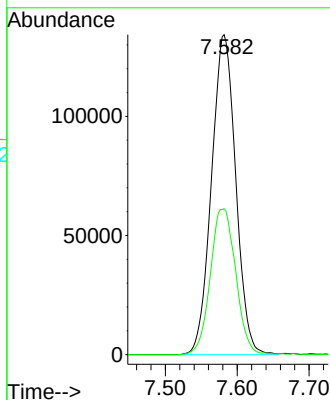
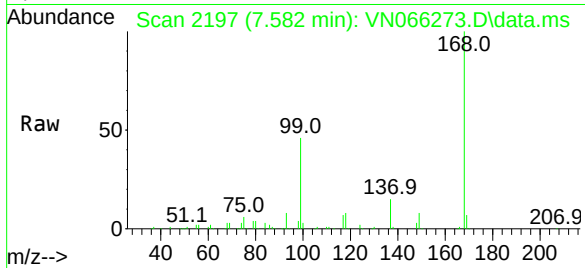




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 7.582 min Scan# 2197  
Delta R.T. -0.003 min  
Lab File: VN066273.D  
Acq: 19 Mar 2021 12:00

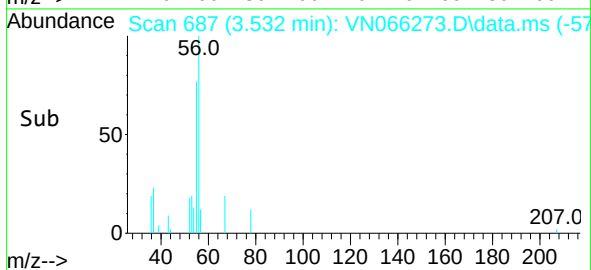
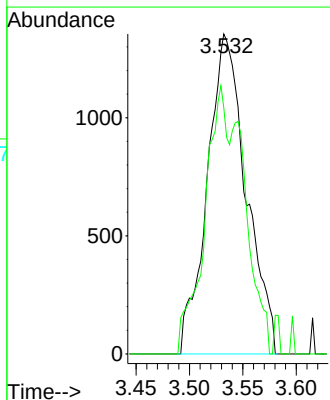
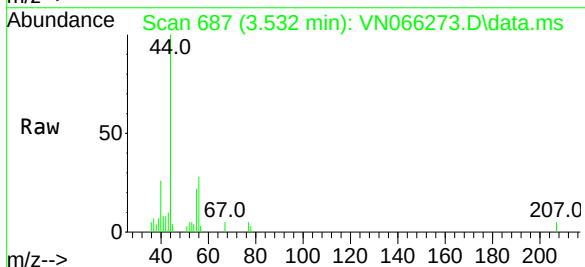
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0319MBL01

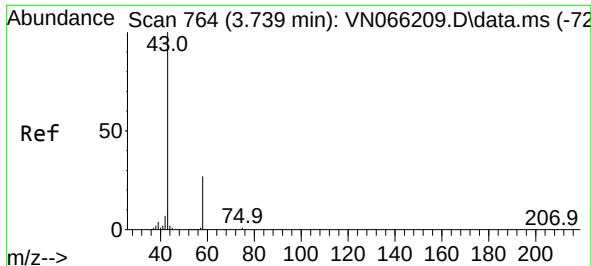
Tgt Ion:168 Resp: 314381  
Ion Ratio Lower Upper  
168 100  
99 45.6 45.4 68.0



#13  
Acrolein  
Concen: Below Cal  
RT: 3.532 min Scan# 687  
Delta R.T. 0.000 min  
Lab File: VN066273.D  
Acq: 19 Mar 2021 12:00

Tgt Ion: 56 Resp: 3419  
Ion Ratio Lower Upper  
56 100  
55 51.1 58.0 87.0#

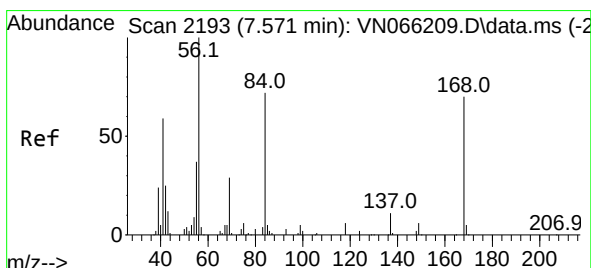
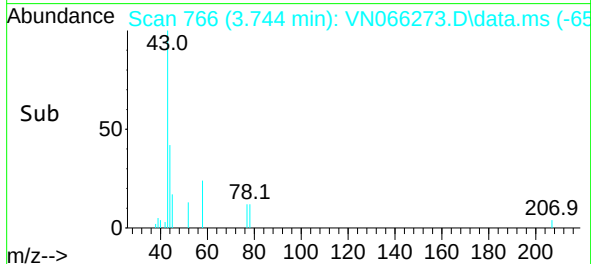
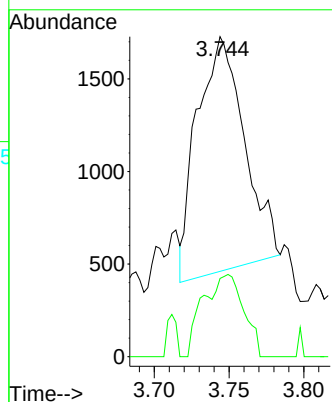
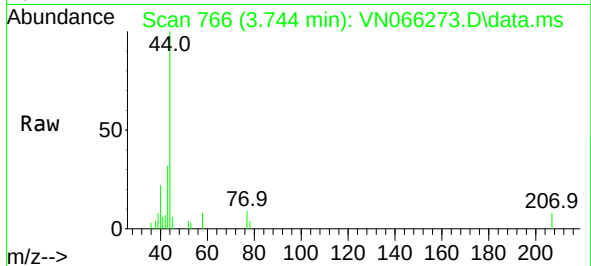




#16  
Acetone  
Concen: 1.28 ug/l  
RT: 3.744 min Scan# 766  
Delta R.T. 0.005 min  
Lab File: VN066273.D  
Acq: 19 Mar 2021 12:00

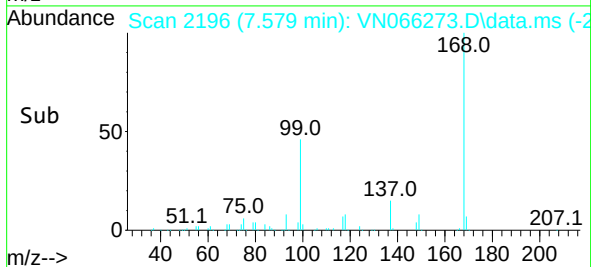
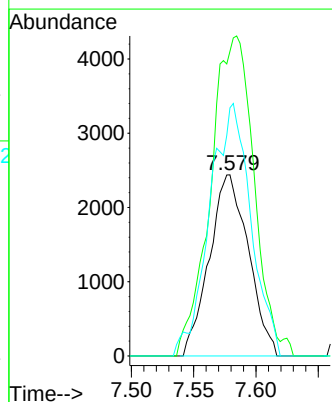
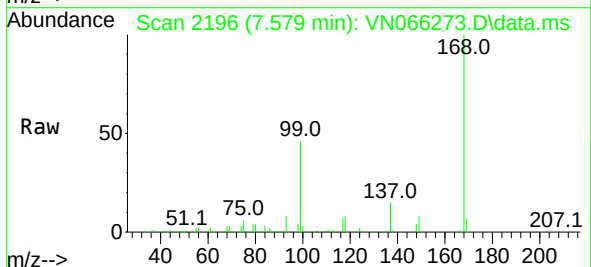
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ClientSampleId :  
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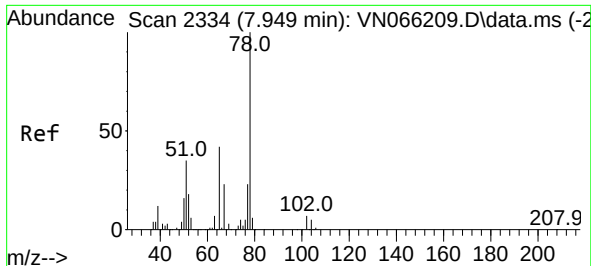
Tgt Ion: 43 Resp: 2789  
Ion Ratio Lower Upper  
43 100  
58 35.8 22.3 33.5#



#31  
Cyclohexane  
Concen: 0.78 ug/l  
RT: 7.579 min Scan# 2196  
Delta R.T. 0.008 min  
Lab File: VN066273.D  
Acq: 19 Mar 2021 12:00

Tgt Ion: 56 Resp: 5315  
Ion Ratio Lower Upper  
56 100  
69 160.2 23.4 35.0#  
84 137.0 57.8 86.6#

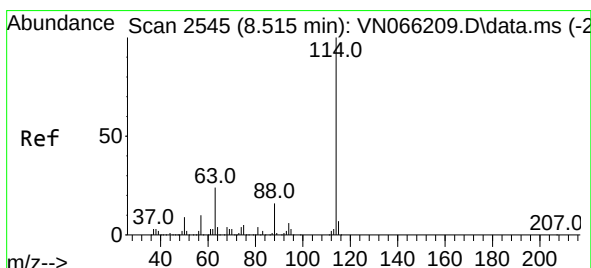
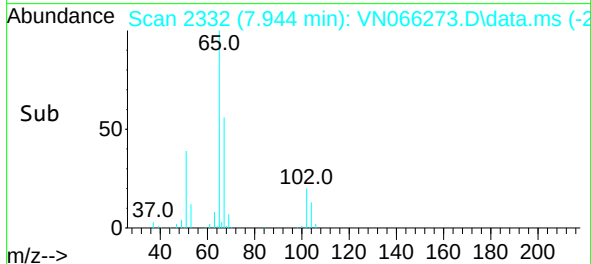
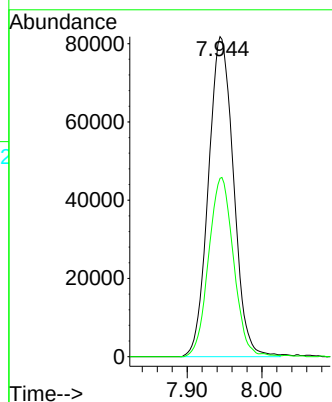
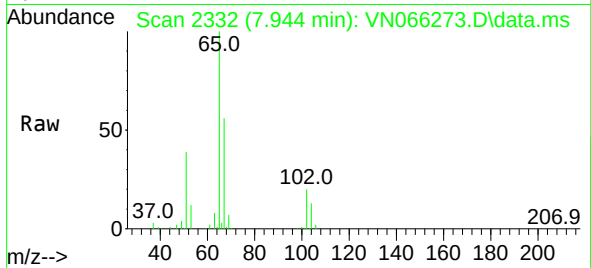




#33  
 1,2-Dichloroethane-d4  
 Concen: 42.15 ug/l  
 RT: 7.944 min Scan# 2332  
 Delta R.T. -0.005 min  
 Lab File: VN066273.D  
 Acq: 19 Mar 2021 12:00

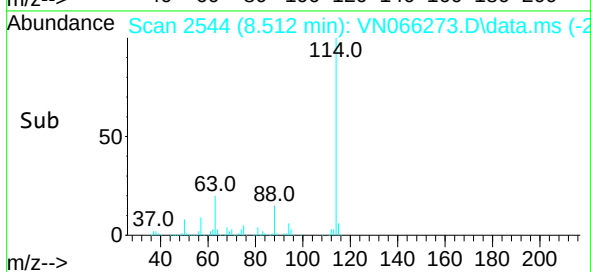
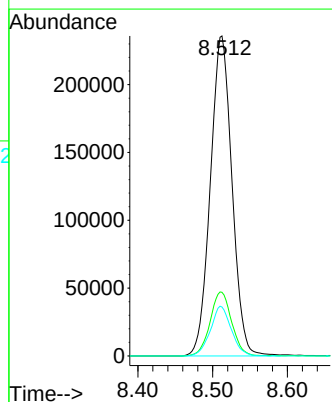
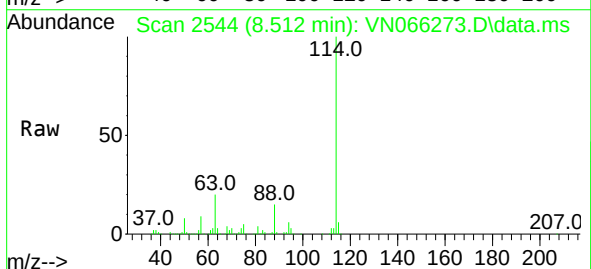
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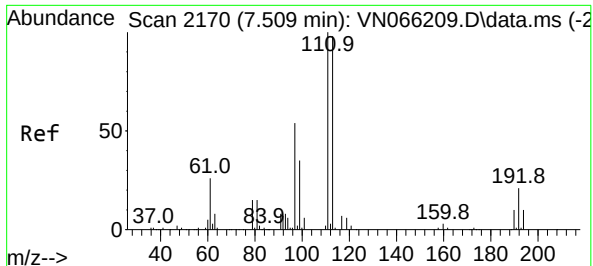
Tgt Ion: 65 Resp: 190905  
 Ion Ratio Lower Upper  
 65 100  
 67 55.2 0.0 107.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 8.512 min Scan# 2544  
 Delta R.T. -0.003 min  
 Lab File: VN066273.D  
 Acq: 19 Mar 2021 12:00

Tgt Ion: 114 Resp: 474654  
 Ion Ratio Lower Upper  
 114 100  
 63 19.9 0.0 49.2  
 88 15.3 0.0 33.8

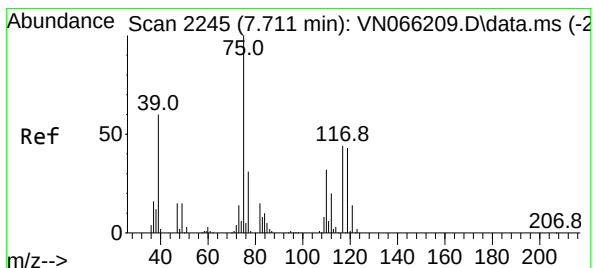
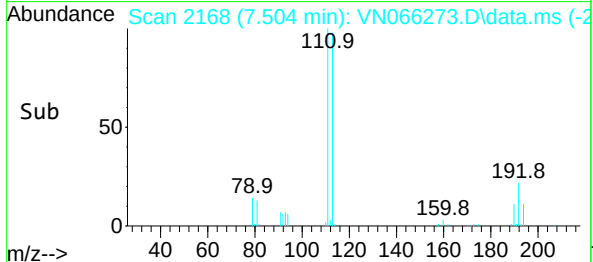
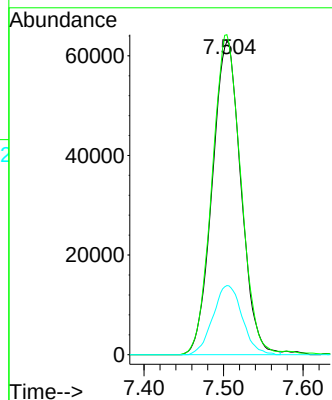
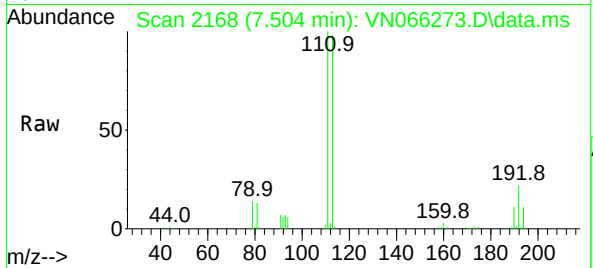




#35  
Dibromofluoromethane  
Concen: 51.96 ug/l  
RT: 7.504 min Scan# 2168  
Delta R.T. -0.005 min  
Lab File: VN066273.D  
Acq: 19 Mar 2021 12:00

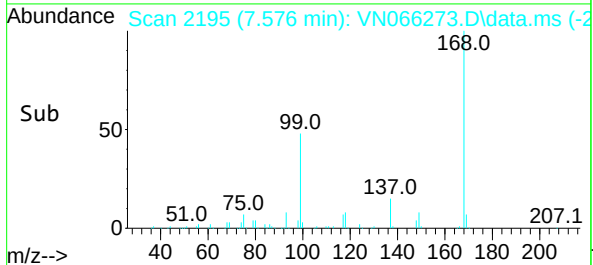
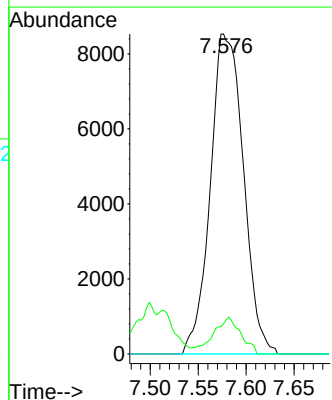
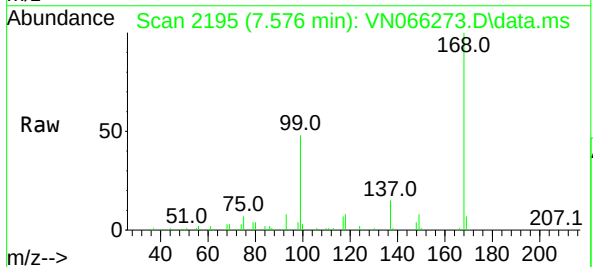
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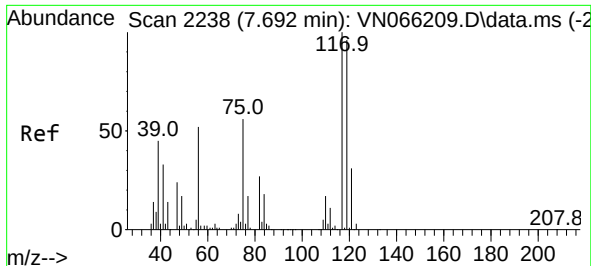
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 113   | Resp: | 157351 |
| Ion      | Ratio | Lower | Upper  |
| 113      | 100   |       |        |
| 111      | 102.5 | 84.0  | 126.0  |
| 192      | 22.6  | 16.7  | 25.1   |



#36  
1,1-Dichloropropene  
Concen: 4.26 ug/l  
RT: 7.576 min Scan# 2195  
Delta R.T. -0.135 min  
Lab File: VN066273.D  
Acq: 19 Mar 2021 12:00

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 20472 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 9.6   | 16.0  | 48.0# |
| 77       | 0.0   | 24.9  | 37.3# |

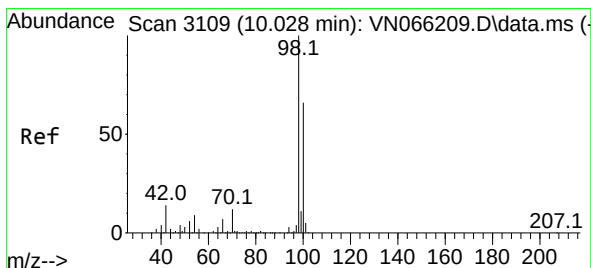
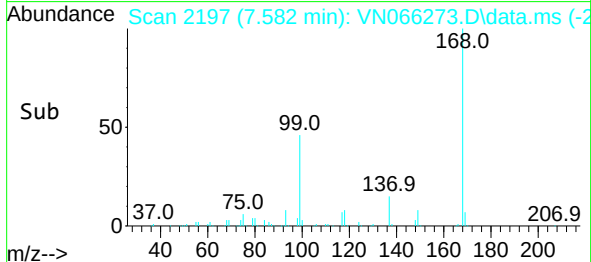
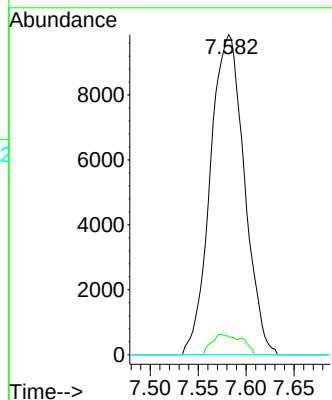
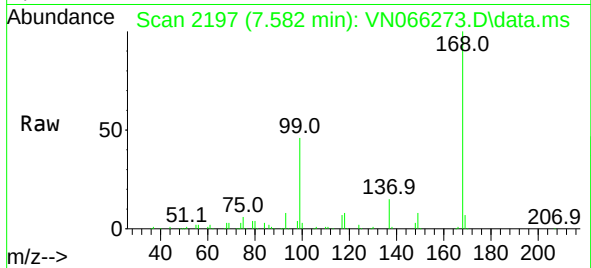




#38  
Carbon Tetrachloride  
Concen: 5.64 ug/l  
RT: 7.582 min Scan# 2197  
Delta R.T. -0.110 min  
Lab File: VN066273.D  
Acq: 19 Mar 2021 12:00

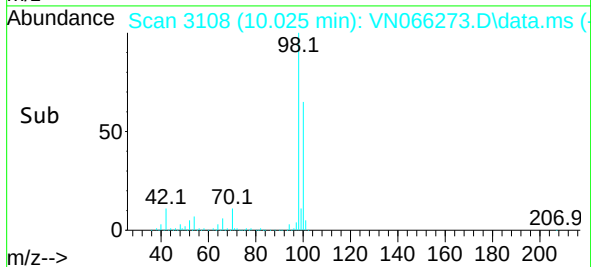
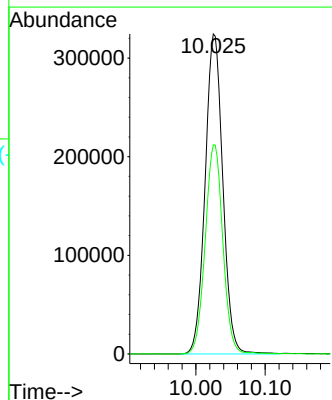
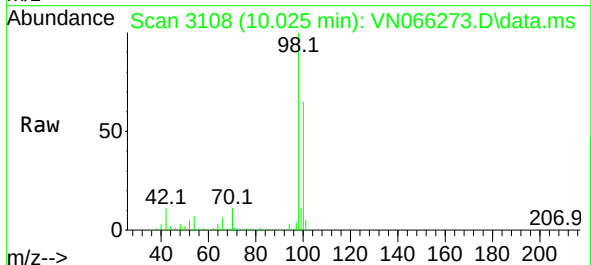
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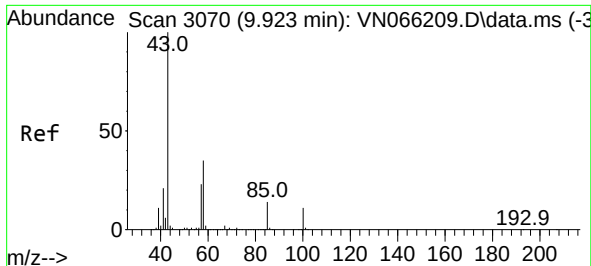
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Ion Ratio Lower Upper  
117 100  
119 5.6 74.6 111.8#  
121 0.0 23.9 35.9#



#50  
Toluene-d8  
Concen: 49.22 ug/l  
RT: 10.025 min Scan# 3108  
Delta R.T. -0.003 min  
Lab File: VN066273.D  
Acq: 19 Mar 2021 12:00

Tgt Ion: 98 Resp: 576314  
Ion Ratio Lower Upper  
98 100  
100 64.8 51.0 76.6

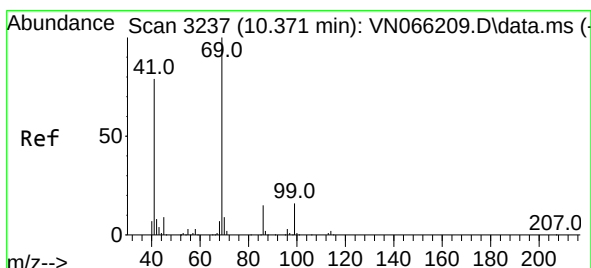
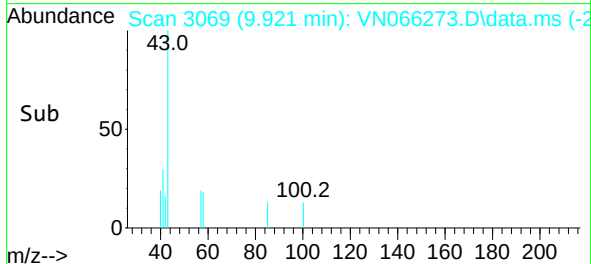
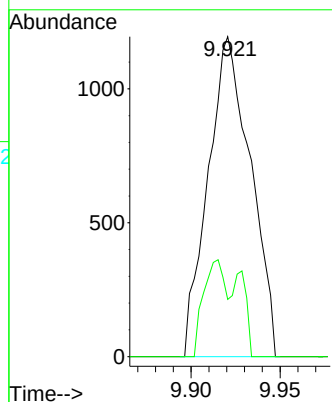
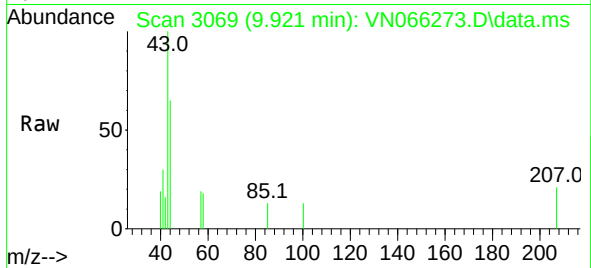




#51  
4-Methyl-2-Pentanone  
Concen: 0.31 ug/l  
RT: 9.921 min Scan# 3069  
Delta R.T. -0.002 min  
Lab File: VN066273.D  
Acq: 19 Mar 2021 12:00

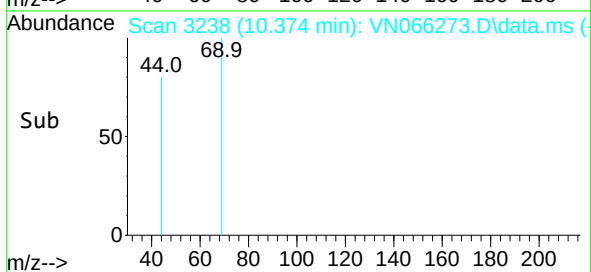
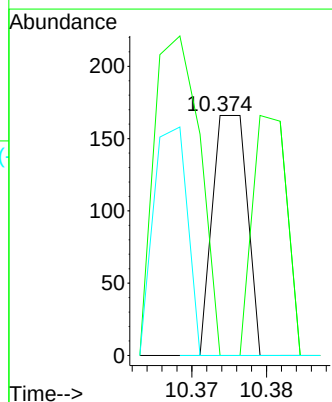
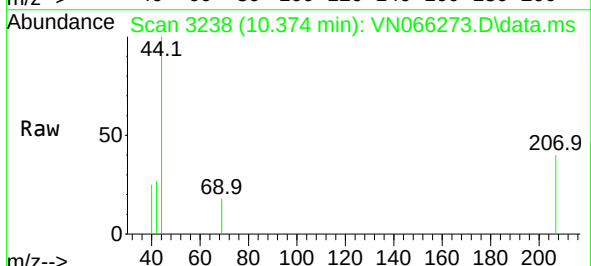
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0319MBL01

Tgt Ion: 43 Resp: 1982  
Ion Ratio Lower Upper  
43 100  
58 15.7 27.5 41.3#

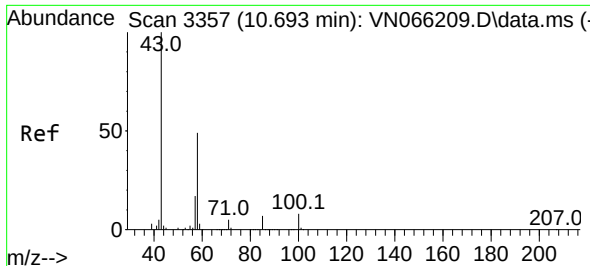


#56  
Ethyl methacrylate  
Concen: 2.17 ug/l  
RT: 10.374 min Scan# 3238  
Delta R.T. 0.003 min  
Lab File: VN066273.D  
Acq: 19 Mar 2021 12:00

Tgt Ion: 69 Resp: 53  
Ion Ratio Lower Upper  
69 100  
41 100.0 66.2 99.4#  
39 0.0 31.5 47.3#



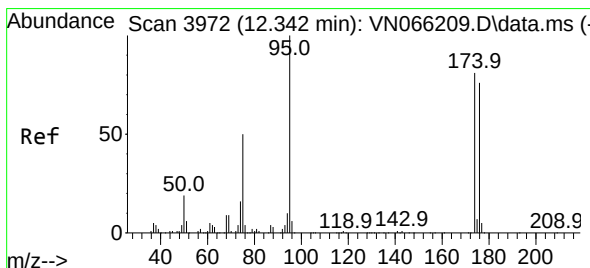
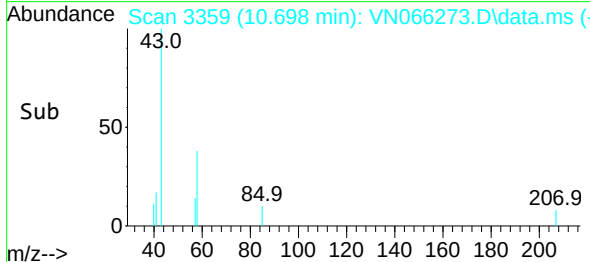
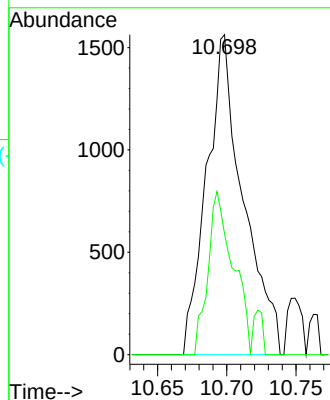
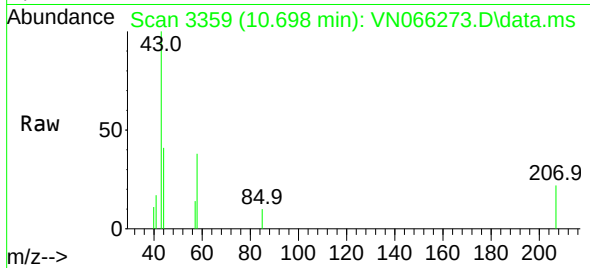




#59  
2-Hexanone  
Concen: 1.90 ug/l  
RT: 10.698 min Scan# 3359  
Delta R.T. 0.005 min  
Lab File: VN066273.D  
Acq: 19 Mar 2021 12:00

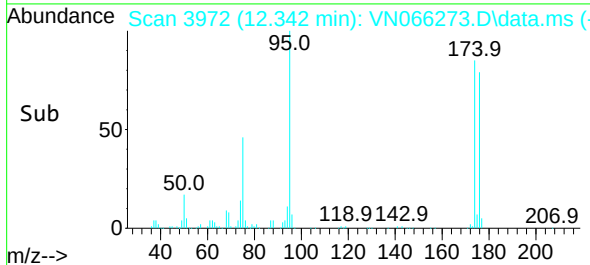
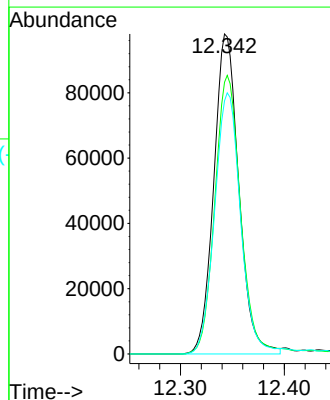
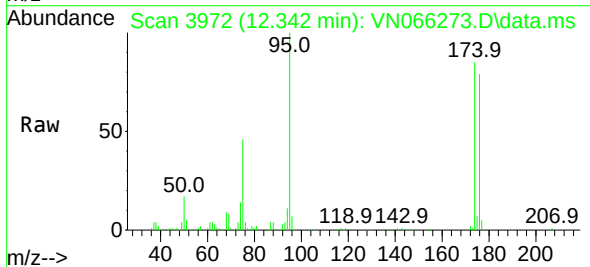
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0319MBL01

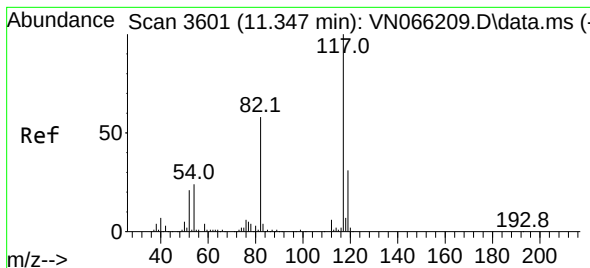
Tgt Ion: 43 Resp: 2866  
Ion Ratio Lower Upper  
43 100  
58 35.1 23.8 71.5



#62  
4-Bromofluorobenzene  
Concen: 38.90 ug/l  
RT: 12.342 min Scan# 3972  
Delta R.T. 0.000 min  
Lab File: VN066273.D  
Acq: 19 Mar 2021 12:00

Tgt Ion: 95 Resp: 164189  
Ion Ratio Lower Upper  
95 100  
174 90.2 0.0 162.4  
176 84.3 0.0 156.2

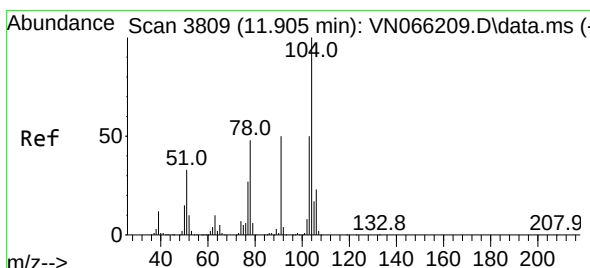
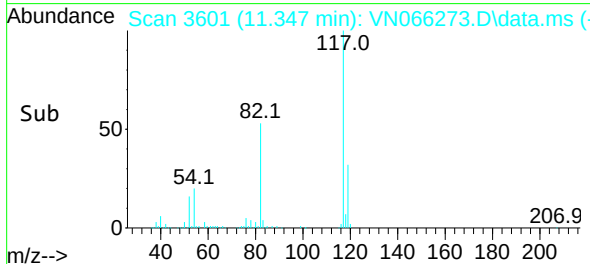
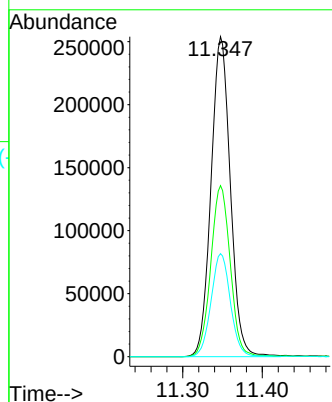
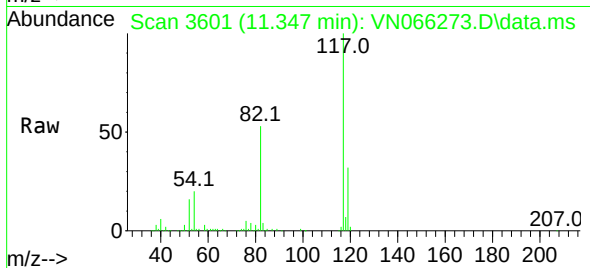




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.347 min Scan# 3601  
Delta R.T. 0.000 min  
Lab File: VN066273.D  
Acq: 19 Mar 2021 12:00

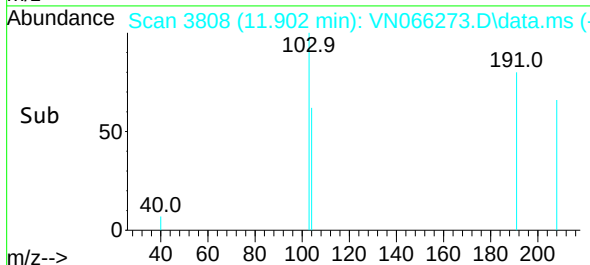
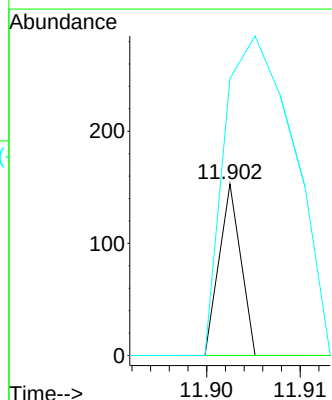
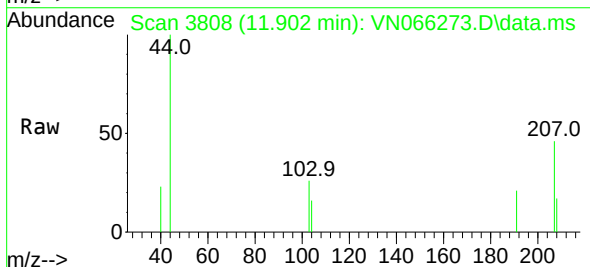
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0319MBL01

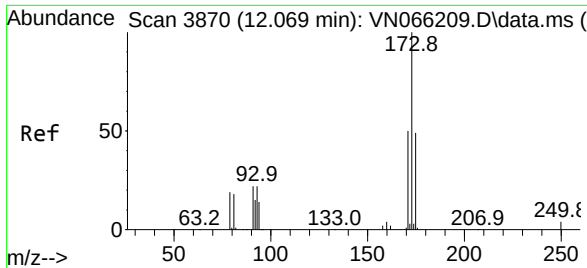
Tgt Ion:117 Resp: 428134  
Ion Ratio Lower Upper  
117 100  
82 53.5 49.0 73.6  
119 32.2 25.7 38.5



#70  
Styrene  
Concen: 2.15 ug/l  
RT: 11.902 min Scan# 3808  
Delta R.T. -0.003 min  
Lab File: VN066273.D  
Acq: 19 Mar 2021 12:00

Tgt Ion:104 Resp: 25  
Ion Ratio Lower Upper  
104 100  
78 0.0 43.8 65.6#  
103 588.0 43.7 65.5#

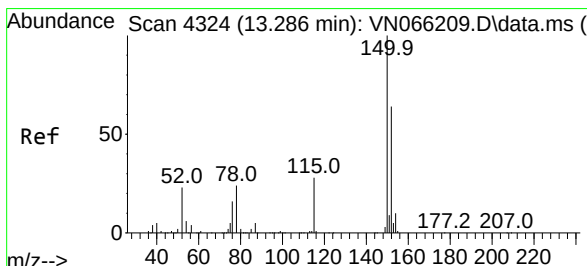
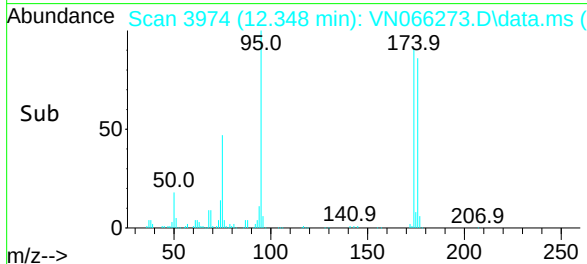
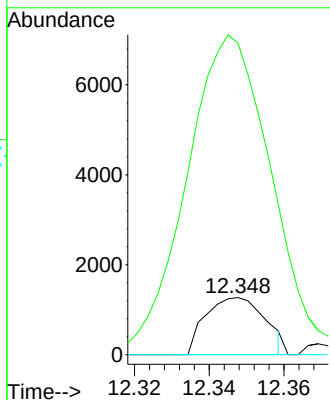
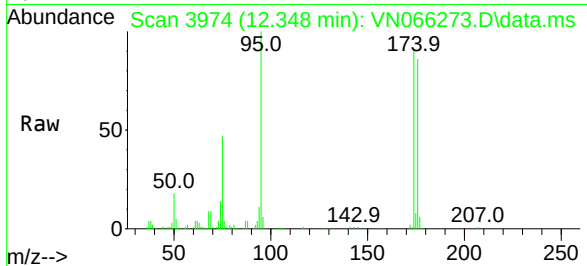




#71  
Bromoform  
Concen: 0.55 ug/l  
RT: 12.348 min Scan# 3974  
Delta R.T. 0.279 min  
Lab File: VN066273.D  
Acq: 19 Mar 2021 12:00

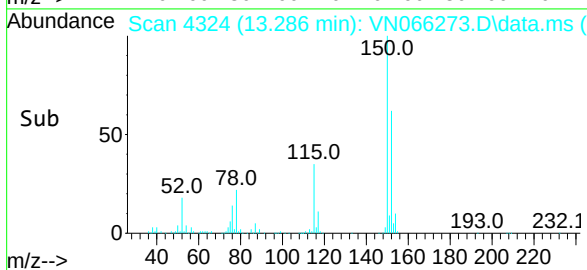
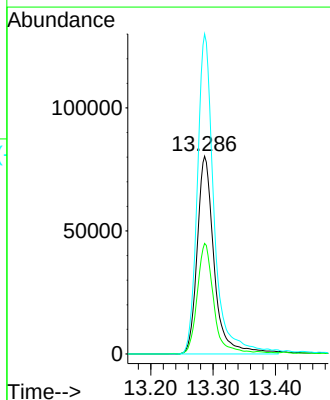
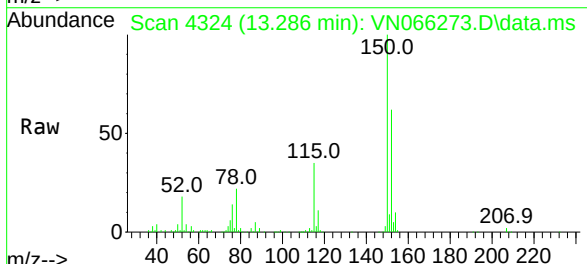
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0319MBL01

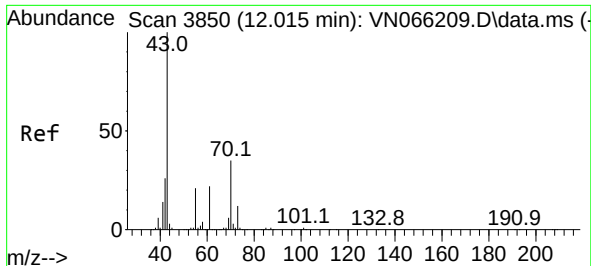
Tgt Ion:173 Resp: 1400  
Ion Ratio Lower Upper  
173 100  
175 732.5 23.9 71.8#  
254 0.0 0.0 0.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.286 min Scan# 4324  
Delta R.T. 0.000 min  
Lab File: VN066273.D  
Acq: 19 Mar 2021 12:00

Tgt Ion:152 Resp: 152528  
Ion Ratio Lower Upper  
152 100  
115 54.1 29.4 88.3  
150 157.5 0.0 352.2

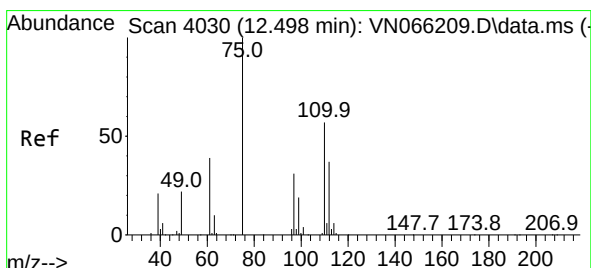
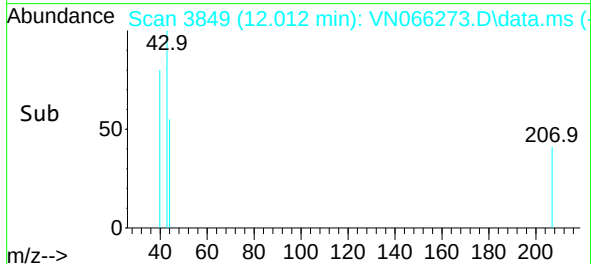
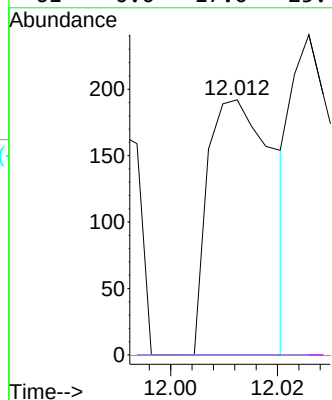
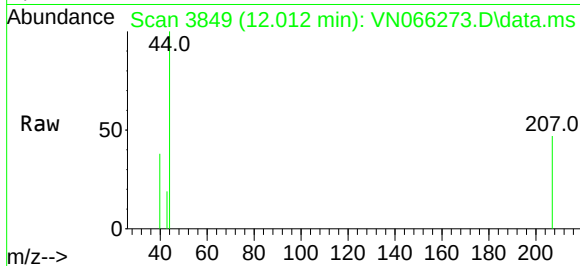




#74  
N-amy1 acetate  
Concen: 2.19 ug/l  
RT: 12.012 min Scan# 3849  
Delta R.T. -0.003 min  
Lab File: VN066273.D  
Acq: 19 Mar 2021 12:00

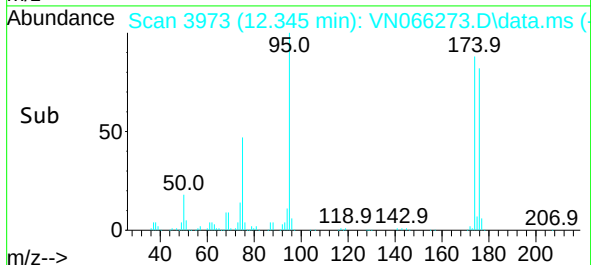
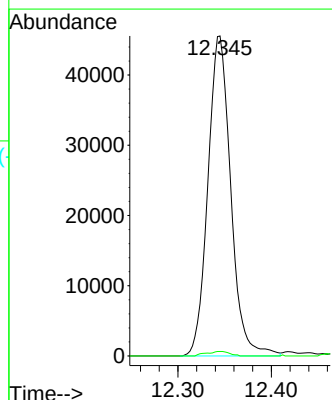
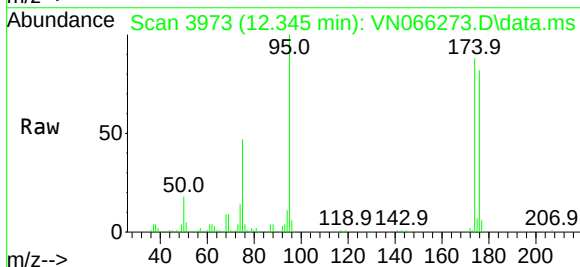
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0319MBL01

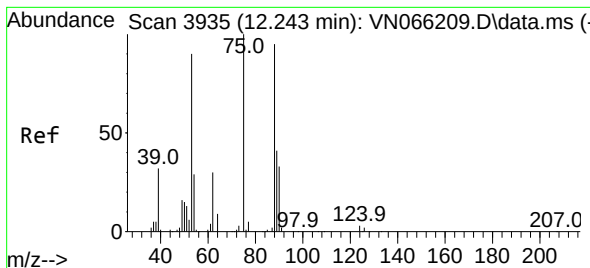
|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 164   |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 70 0.0      | 26.2 39.4#  |
| 55 0.0      | 17.2 25.8#  |
| 61 0.0      | 17.0 25.4#  |



#76  
1,2,3-Trichloropropane  
Concen: 19.69 ug/l  
RT: 12.345 min Scan# 3973  
Delta R.T. -0.153 min  
Lab File: VN066273.D  
Acq: 19 Mar 2021 12:00

|             |             |
|-------------|-------------|
| Tgt Ion: 75 | Resp: 77558 |
| Ion Ratio   | Lower Upper |
| 75 100      |             |
| 77 1.4      | 0.0 0.0#    |

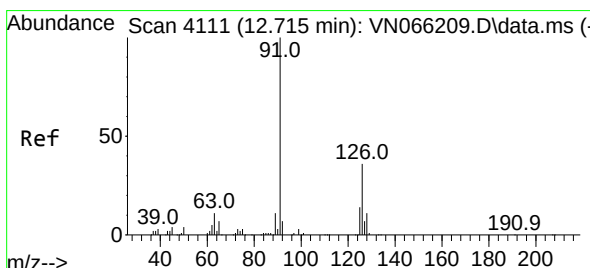
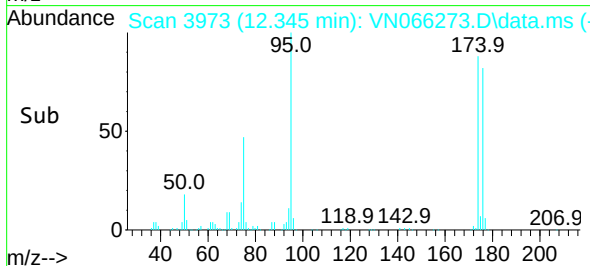
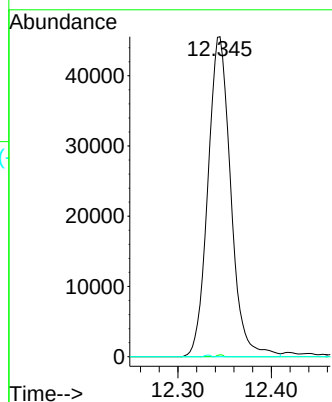
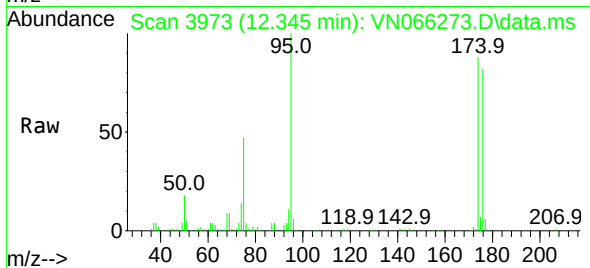




#81  
trans-1,4-Dichloro-2-butene  
Concen: 58.92 ug/l  
RT: 12.345 min Scan# 3973  
Delta R.T. 0.102 min  
Lab File: VN066273.D  
Acq: 19 Mar 2021 12:00

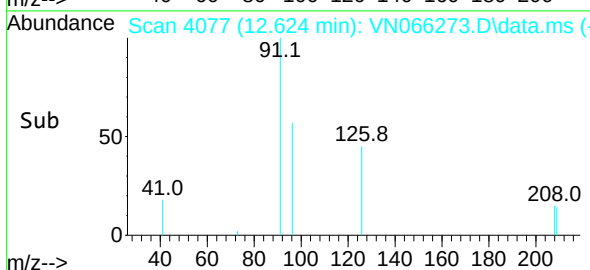
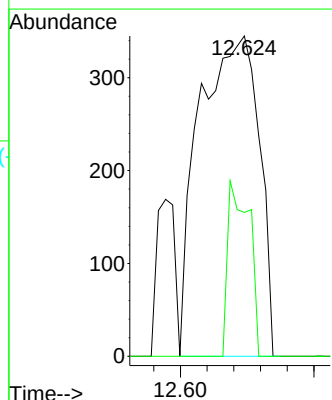
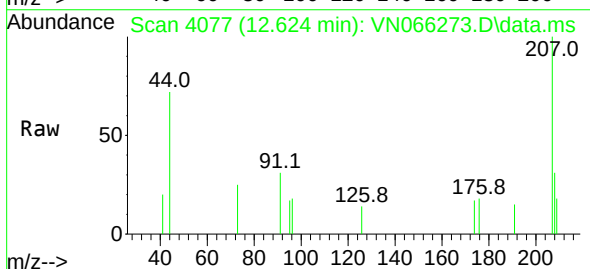
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0319MBL01

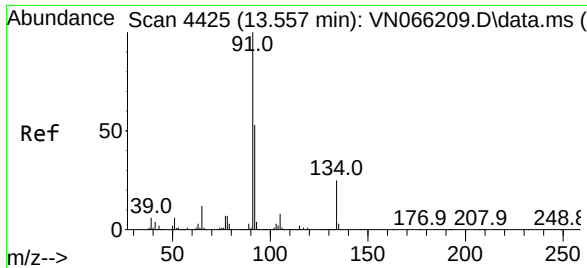
Tgt Ion: 75 Resp: 77558  
Ion Ratio Lower Upper  
75 100  
53 0.1 77.8 116.6#  
89 0.1 33.7 50.5#



#82  
4-Chlorotoluene  
Concen: 0.53 ug/l  
RT: 12.624 min Scan# 4077  
Delta R.T. -0.091 min  
Lab File: VN066273.D  
Acq: 19 Mar 2021 12:00

Tgt Ion: 91 Resp: 535  
Ion Ratio Lower Upper  
91 100  
126 19.8 15.7 47.1

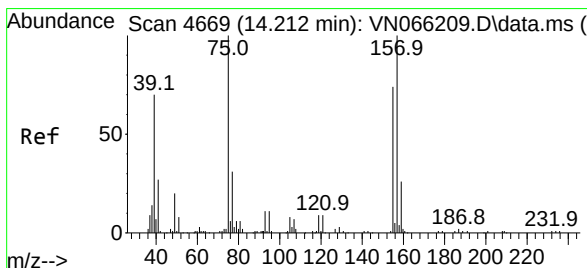
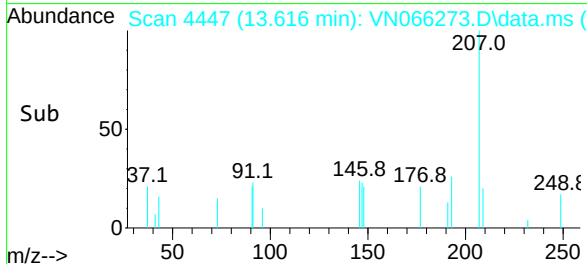
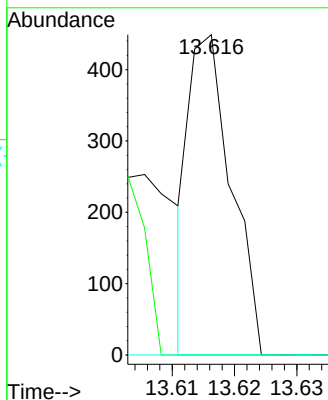
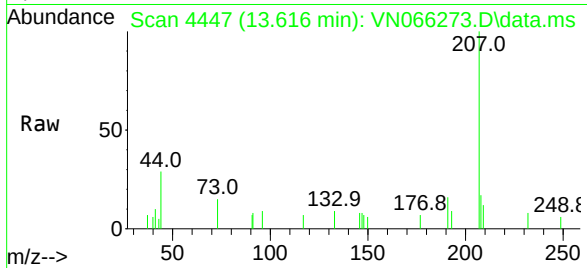




#89  
n-Butylbenzene  
Concen: 2.26 ug/l  
RT: 13.616 min Scan# 4447  
Delta R.T. 0.059 min  
Lab File: VN066273.D  
Acq: 19 Mar 2021 12:00

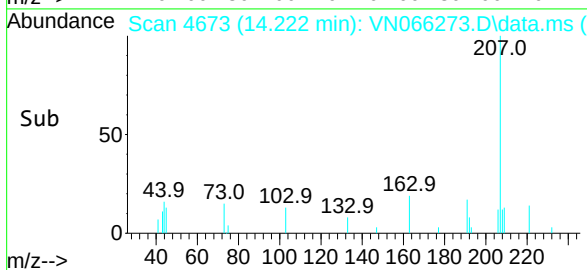
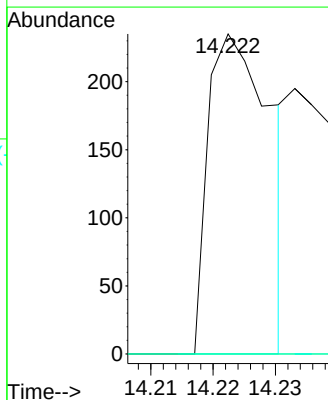
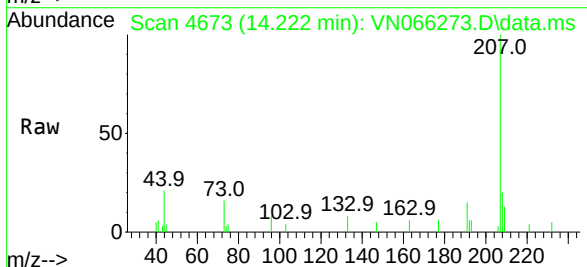
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0319MBL01

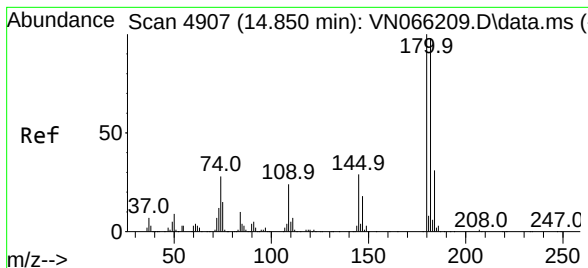
|             |                |
|-------------|----------------|
| Tgt Ion: 91 | Resp: 210      |
| Ion Ratio   | Lower Upper    |
| 91          | 100            |
| 92          | 66.7 25.7 77.0 |
| 134         | 12.4 11.8 35.4 |



#92  
1,2-Dibromo-3-Chloropropane  
Concen: 1.03 ug/l  
RT: 14.222 min Scan# 4673  
Delta R.T. 0.010 min  
Lab File: VN066273.D  
Acq: 19 Mar 2021 12:00

|             |                 |
|-------------|-----------------|
| Tgt Ion: 75 | Resp: 164       |
| Ion Ratio   | Lower Upper     |
| 75          | 100             |
| 155         | 0.0 36.5 109.7# |
| 157         | 0.0 46.3 138.8# |

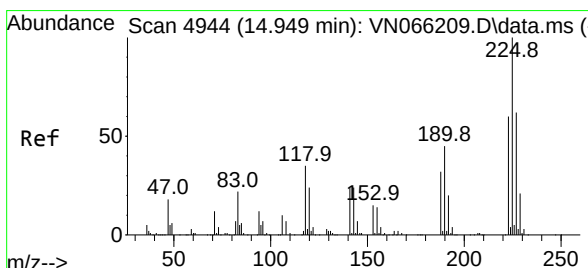
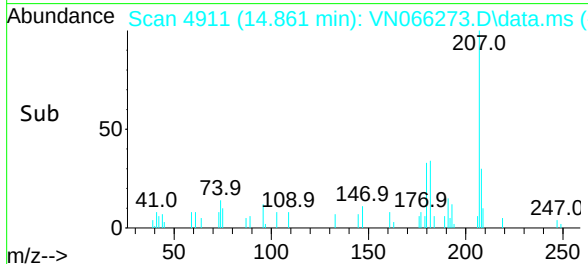
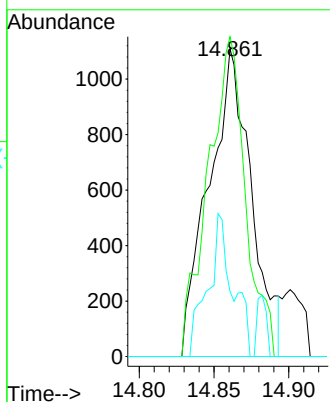
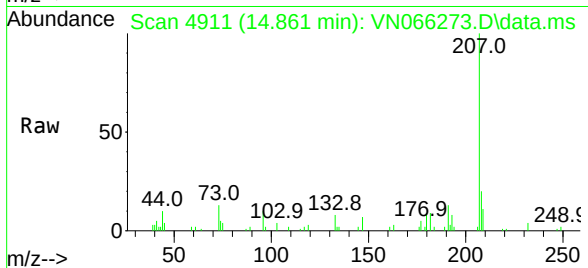




#93  
1,2,4-Trichlorobenzene  
Concen: 0.71 ug/l  
RT: 14.861 min Scan# 4911  
Delta R.T. 0.011 min  
Lab File: VN066273.D  
Acq: 19 Mar 2021 12:00

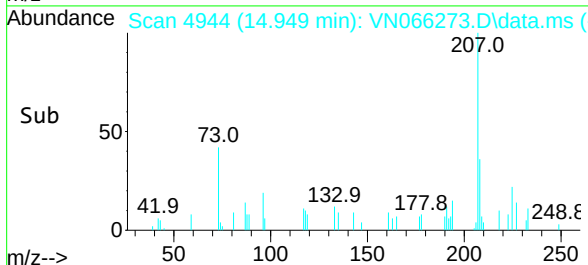
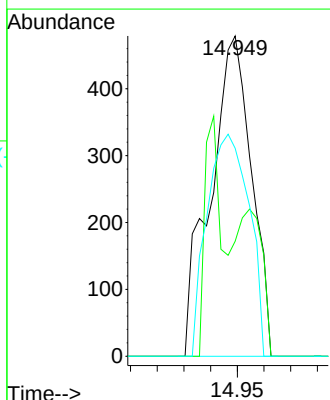
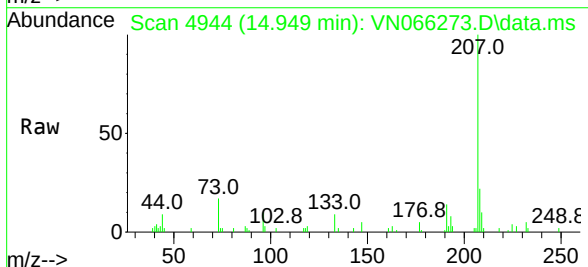
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0319MBL01

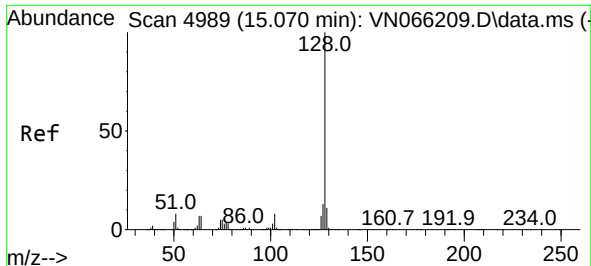
Tgt Ion:180 Resp: 2182  
Ion Ratio Lower Upper  
180 100  
182 91.7 47.4 142.2  
145 22.5 14.1 42.3



#94  
Hexachlorobutadiene  
Concen: 0.35 ug/l  
RT: 14.949 min Scan# 4944  
Delta R.T. 0.000 min  
Lab File: VN066273.D  
Acq: 19 Mar 2021 12:00

Tgt Ion:225 Resp: 514  
Ion Ratio Lower Upper  
225 100  
223 30.0 31.3 93.8#  
227 70.8 31.9 95.7

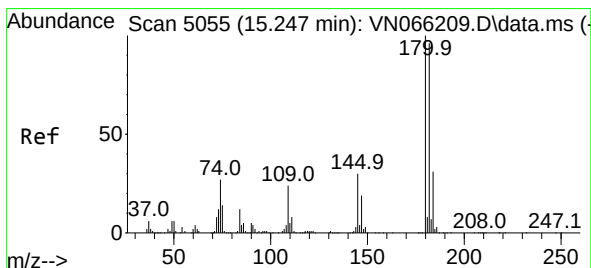
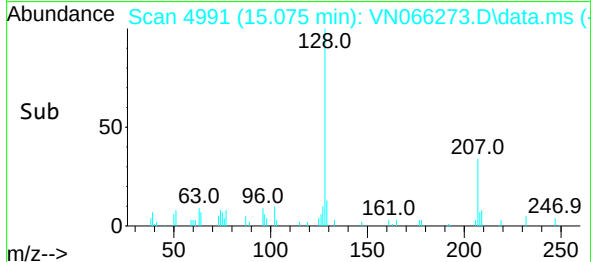
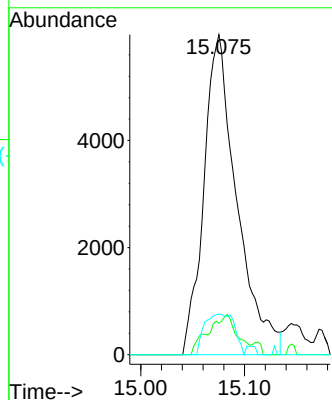
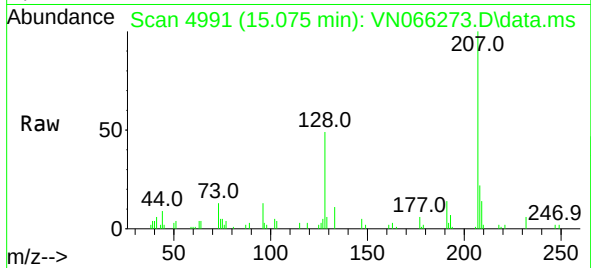




#95  
Naphthalene  
Concen: 1.47 ug/l  
RT: 15.075 min Scan# 4991  
Delta R.T. 0.005 min  
Lab File: VN066273.D  
Acq: 19 Mar 2021 12:00

Instrument :  
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ClientSampleId :  
VN0319MBL01

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:128 | Resp: | 13176     |
| Ion Ratio   | Lower | Upper     |
| 128         | 100   |           |
| 127         | 11.0  | 10.3 15.5 |
| 129         | 11.5  | 8.4 12.6  |



#96  
1,2,3-Trichlorobenzene  
Concen: 0.53 ug/l  
RT: 15.247 min Scan# 5055  
Delta R.T. -0.000 min  
Lab File: VN066273.D  
Acq: 19 Mar 2021 12:00

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 1613       |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 128.4 | 47.9 143.8 |
| 145         | 25.3  | 15.6 46.8  |

