

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN091924\  
 Data File : VN084032.D  
 Acq On : 19 Sep 2024 14:18  
 Operator : JC\MD  
 Sample : VN0919MBL01  
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Sep 20 01:29:48 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N091024W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 11 15:18:56 2024  
 Response via : Initial Calibration

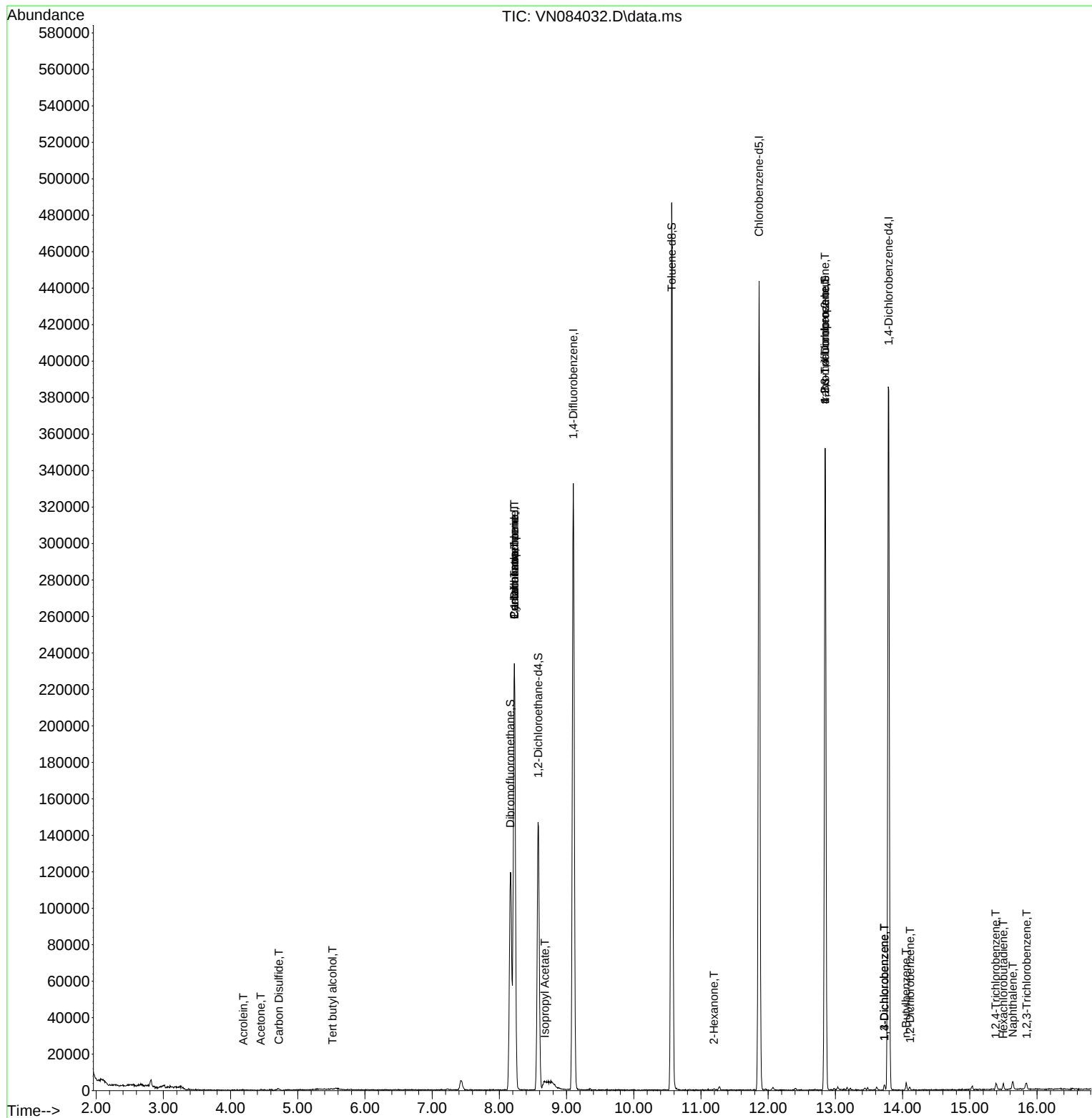
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 8.224  | 168   | 158191   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.100  | 114   | 274070   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.865 | 117   | 230762   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794 | 152   | 97684    | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.577  | 65    | 123661   | 51.843    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery  | = 103.680% |          |
| 35) Dibromofluoromethane      | 8.165  | 113   | 86838    | 49.493    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | = 98.980%  |          |
| 50) Toluene-d8                | 10.565 | 98    | 325063   | 53.591    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery  | = 107.180% |          |
| 62) 4-Bromofluorobenzene      | 12.847 | 95    | 120145   | 48.010    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 77 - 121 | Recovery  | = 96.020%  |          |
| Target Compounds              |        |       |          |           |            |          |
|                               |        |       |          |           | Qvalue     |          |
| 3) Chloromethane              | 2.359  | 50    | 203      | Below Cal | #          | 41       |
| 11) Tert butyl alcohol        | 5.518  | 59    | 66       | 0.207     | ug/l #     | 71       |
| 13) Acrolein                  | 4.189  | 56    | 125      | 0.397     | ug/l #     | 13       |
| 16) Acetone                   | 4.447  | 43    | 310      | 0.324     | ug/l #     | 45       |
| 17) Carbon Disulfide          | 4.718  | 76    | 1971     | 0.412     | ug/l #     | 75       |
| 18) Methyl Acetate            | 5.006  | 43    | 61       | Below Cal | #          | 52       |
| 31) Cyclohexane               | 8.224  | 56    | 4446     | 1.290     | ug/l #     | 37       |
| 36) 1,1-Dichloropropene       | 8.224  | 75    | 15426    | 5.841     | ug/l #     | 52       |
| 38) Carbon Tetrachloride      | 8.224  | 117   | 18908    | 6.311     | ug/l #     | 16       |
| 43) Isopropyl Acetate         | 8.677  | 43    | 3494     | 0.804     | ug/l #     | 57       |
| 59) 2-Hexanone                | 11.194 | 43    | 449      | 0.257     | ug/l       | 99       |
| 76) 1,2,3-Trichloropropane    | 12.847 | 75    | 67827    | 34.411    | ug/l #     | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.847 | 75    | 67827    | 90.126    | ug/l #     | 9        |
| 87) 1,3-Dichlorobenzene       | 13.729 | 146   | 814      | 0.237     | ug/l       | 84       |
| 88) 1,4-Dichlorobenzene       | 13.729 | 146   | 814      | 0.234     | ug/l       | 85       |
| 89) n-Butylbenzene            | 14.053 | 91    | 2252     | 0.405     | ug/l       | 93       |
| 91) 1,2-Dichlorobenzene       | 14.111 | 146   | 877      | 0.265     | ug/l       | 86       |
| 93) 1,2,4-Trichlorobenzene    | 15.388 | 180   | 1188     | 0.668     | ug/l       | 96       |
| 94) Hexachlorobutadiene       | 15.500 | 225   | 889      | 1.177     | ug/l       | 80       |
| 95) Naphthalene               | 15.641 | 128   | 5169     | 0.956     | ug/l       | 97       |
| 96) 1,2,3-Trichlorobenzene    | 15.847 | 180   | 1781     | 1.048     | ug/l       | 89       |
| -----                         |        |       |          |           |            |          |

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

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ALS Vial : 4 Sample Multiplier: 1

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MSVOA\_N  
ClientSampleId :

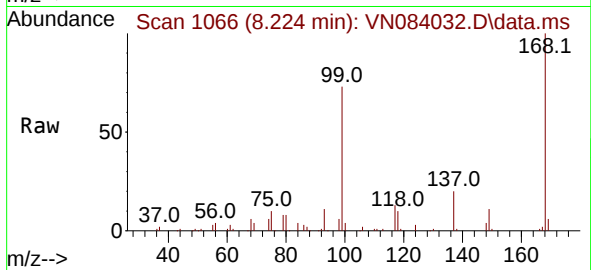
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N091024W.M  
Quant Title : SW846 8260  
QLast Update : Wed Sep 11 15:18:56 2024  
Response via : Initial Calibration



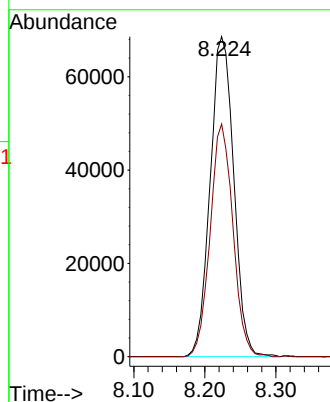
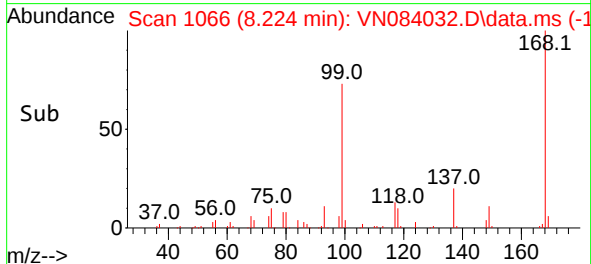


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.000 min  
Lab File: VN084032.D  
Acq: 19 Sep 2024 14:18

Instrument :  
MSVOA\_N  
ClientSampleId :

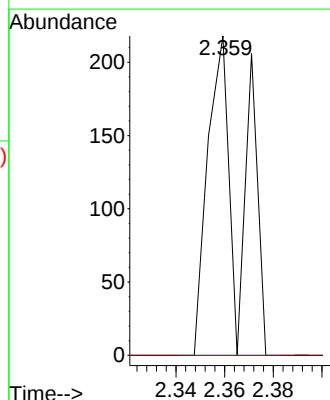
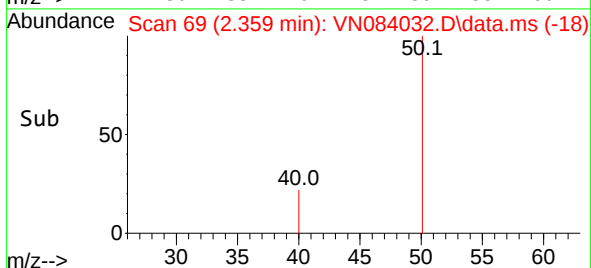
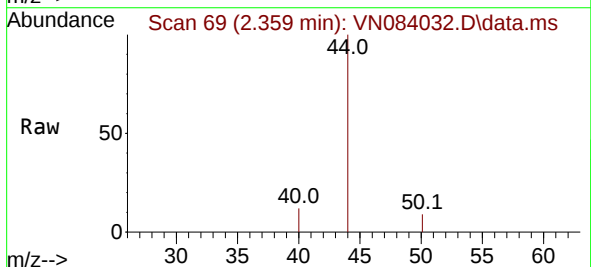


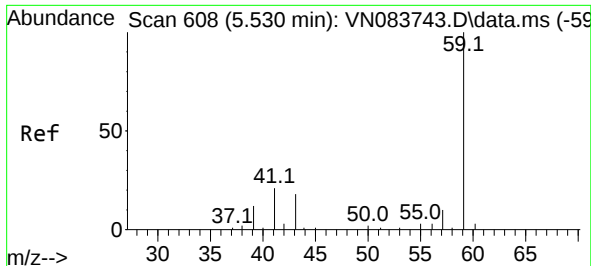
Tgt Ion:168 Resp: 158191  
Ion Ratio Lower Upper  
168 100  
99 72.7 54.2 81.2



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.359 min Scan# 69  
Delta R.T. 0.000 min  
Lab File: VN084032.D  
Acq: 19 Sep 2024 14:18

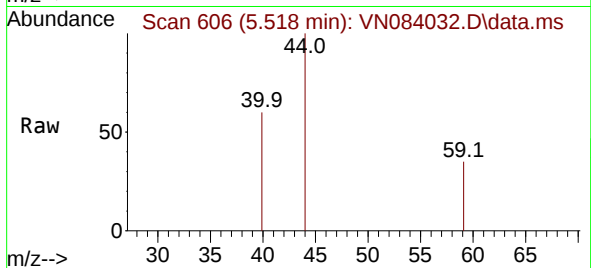
Tgt Ion: 50 Resp: 203  
Ion Ratio Lower Upper  
50 100  
52 0.0 27.2 40.8#



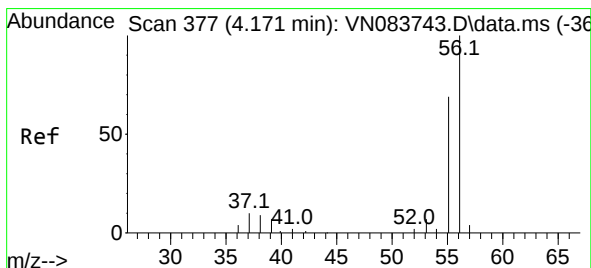
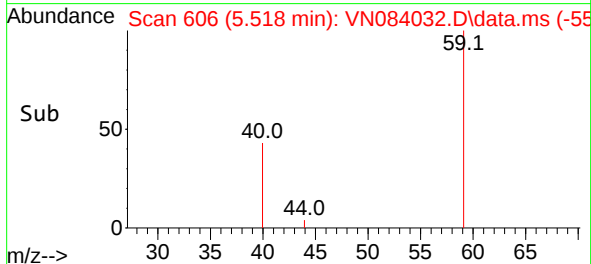
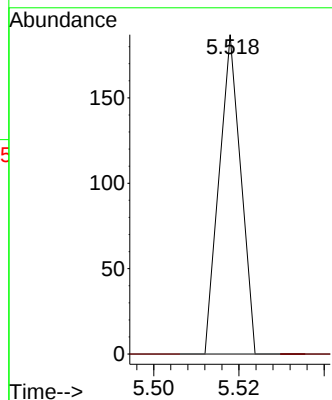


#11  
Tert butyl alcohol  
Concen: 0.207 ug/l  
RT: 5.518 min Scan# 60  
Delta R.T. -0.012 min  
Lab File: VN084032.D  
Acq: 19 Sep 2024 14:18

Instrument :  
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ClientSampleId :

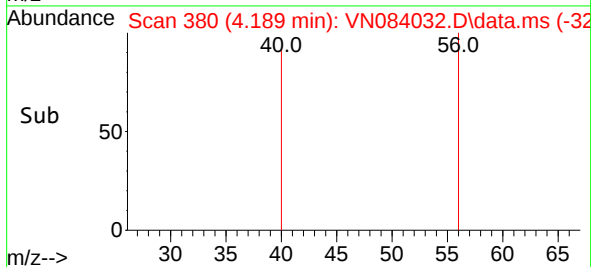
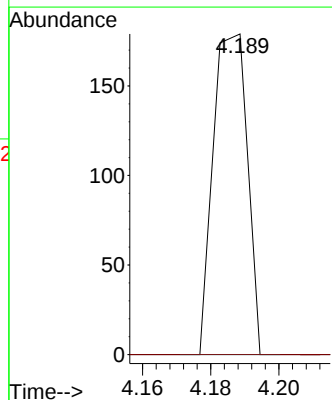
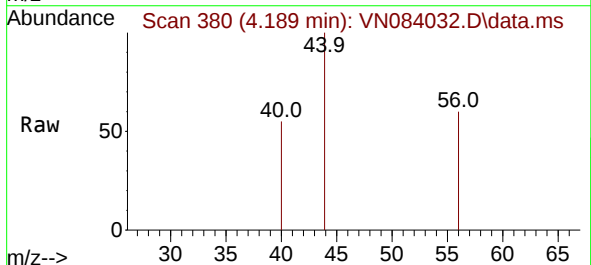


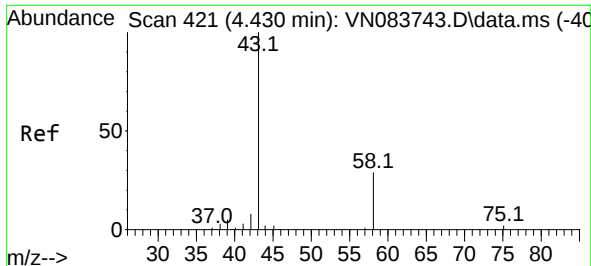
Tgt Ion: 59 Resp: 66  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.7 13.1#



#13  
Acrolein  
Concen: 0.397 ug/l  
RT: 4.189 min Scan# 380  
Delta R.T. 0.018 min  
Lab File: VN084032.D  
Acq: 19 Sep 2024 14:18

Tgt Ion: 56 Resp: 125  
Ion Ratio Lower Upper  
56 100  
55 0.0 58.2 87.2#

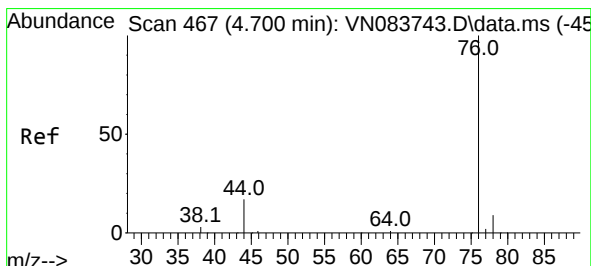
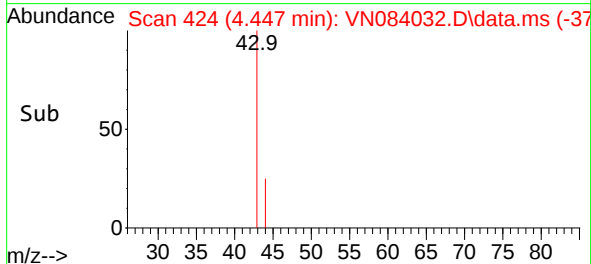
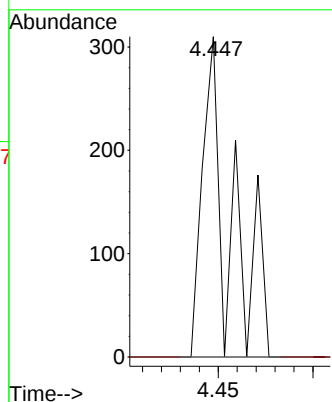
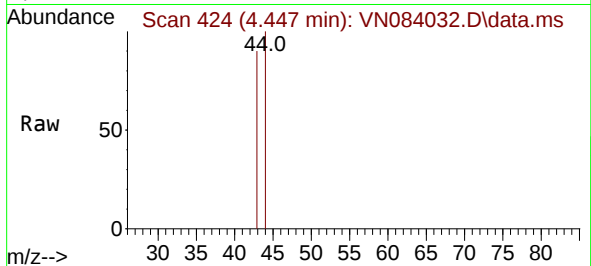




#16  
Acetone  
Concen: 0.324 ug/l  
RT: 4.447 min Scan# 41  
Delta R.T. 0.018 min  
Lab File: VN084032.D  
Acq: 19 Sep 2024 14:18

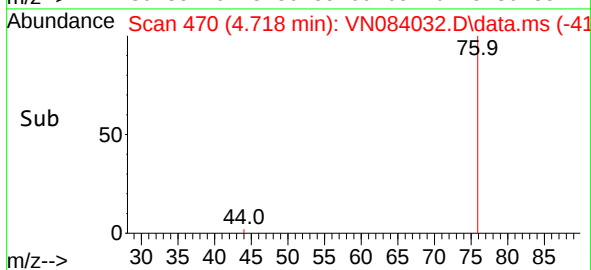
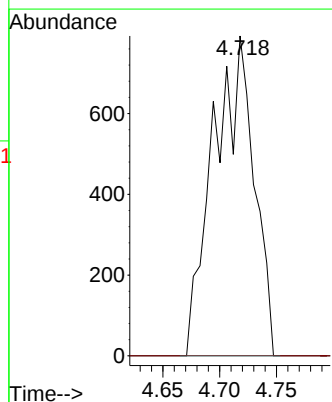
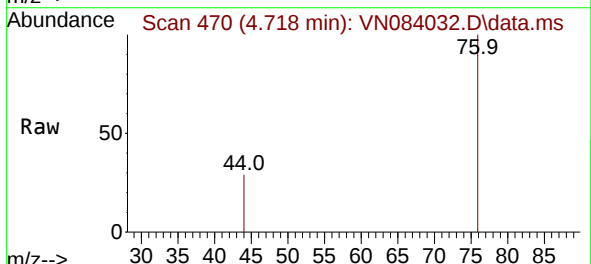
Instrument :  
MSVOA\_N  
ClientSampleId :

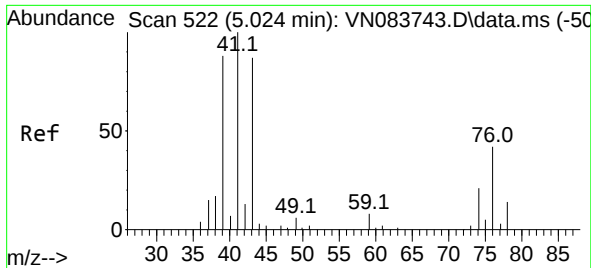
Tgt Ion: 43 Resp: 310  
Ion Ratio Lower Upper  
43 100  
58 0.0 23.7 35.5#



#17  
Carbon Disulfide  
Concen: 0.412 ug/l  
RT: 4.718 min Scan# 470  
Delta R.T. 0.018 min  
Lab File: VN084032.D  
Acq: 19 Sep 2024 14:18

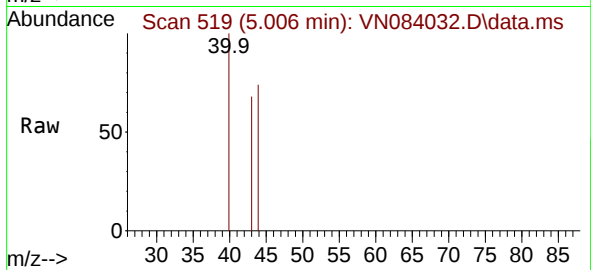
Tgt Ion: 76 Resp: 1971  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.1 10.7#



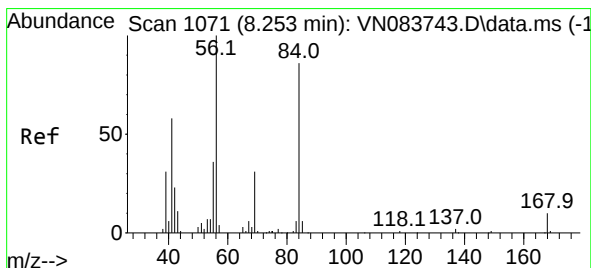
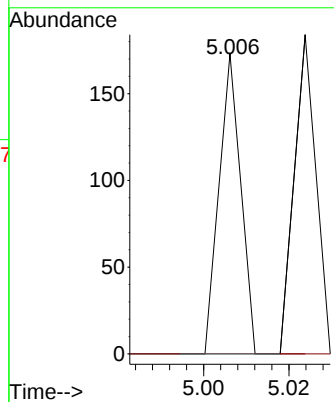
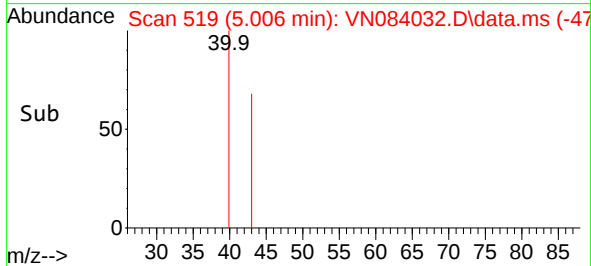


#18  
Methyl Acetate  
Concen: Below Cal  
RT: 5.006 min Scan# 51  
Delta R.T. -0.018 min  
Lab File: VN084032.D  
Acq: 19 Sep 2024 14:18

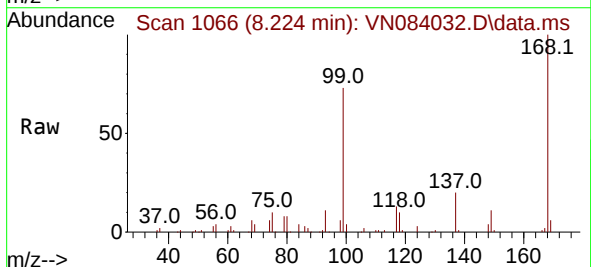
Instrument :  
MSVOA\_N  
ClientSampleId :



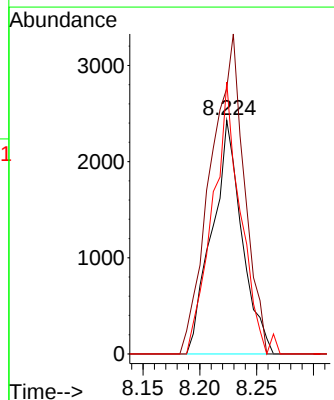
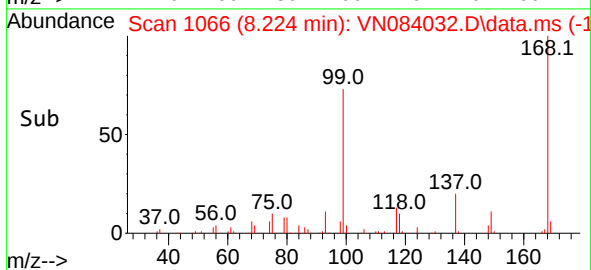
Tgt Ion: 43 Resp: 61  
Ion Ratio Lower Upper  
43 100  
74 0.0 19.0 28.4#

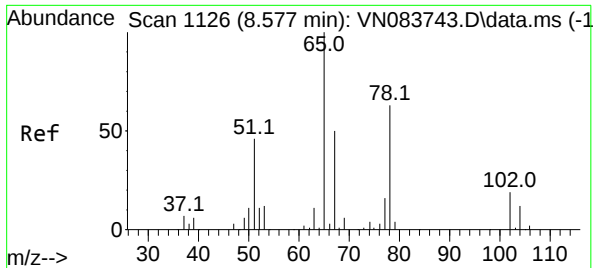


#31  
Cyclohexane  
Concen: 1.290 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.030 min  
Lab File: VN084032.D  
Acq: 19 Sep 2024 14:18



Tgt Ion: 56 Resp: 4446  
Ion Ratio Lower Upper  
56 100  
69 113.7 26.9 40.3#  
84 116.3 69.2 103.8#

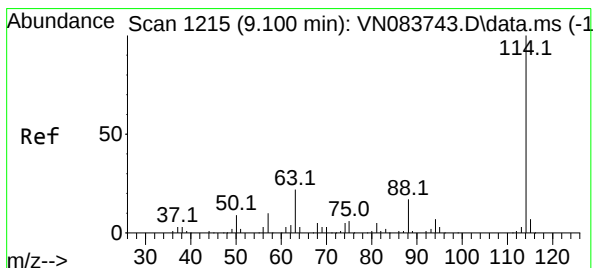
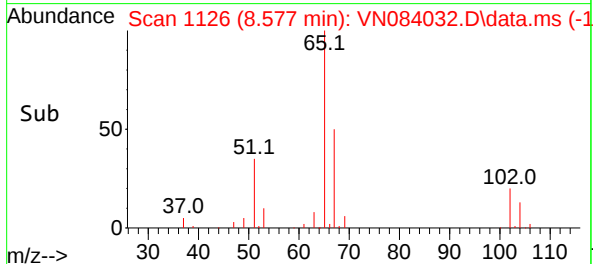
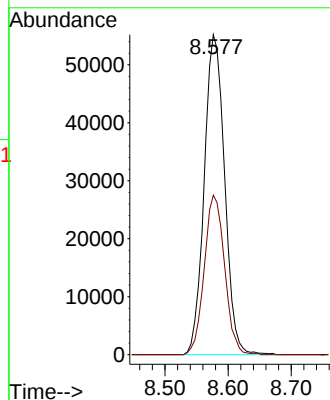
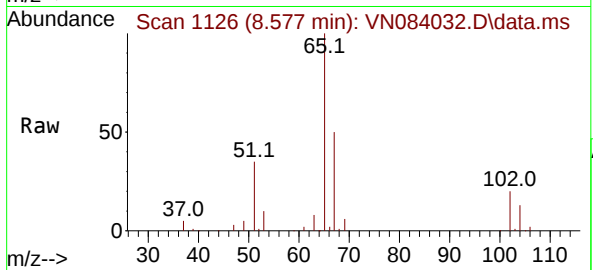




#33  
 1,2-Dichloroethane-d4  
 Concen: 51.843 ug/l  
 RT: 8.577 min Scan# 1126  
 Delta R.T. -0.000 min  
 Lab File: VN084032.D  
 Acq: 19 Sep 2024 14:18

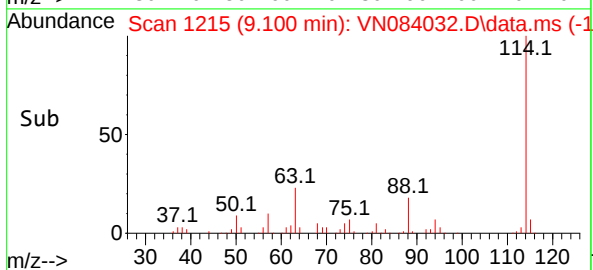
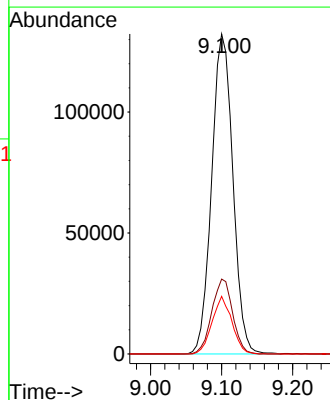
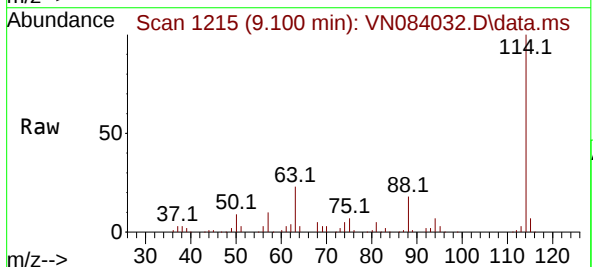
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 ClientSampleId :

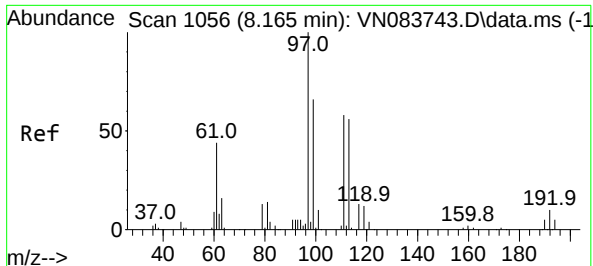
Tgt Ion: 65 Resp: 123661  
 Ion Ratio Lower Upper  
 65 100  
 67 49.8 0.0 100.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 9.100 min Scan# 1215  
 Delta R.T. -0.000 min  
 Lab File: VN084032.D  
 Acq: 19 Sep 2024 14:18

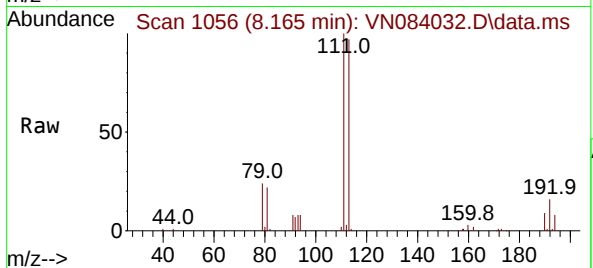
Tgt Ion: 114 Resp: 274070  
 Ion Ratio Lower Upper  
 114 100  
 63 23.4 0.0 43.4  
 88 18.0 0.0 32.6



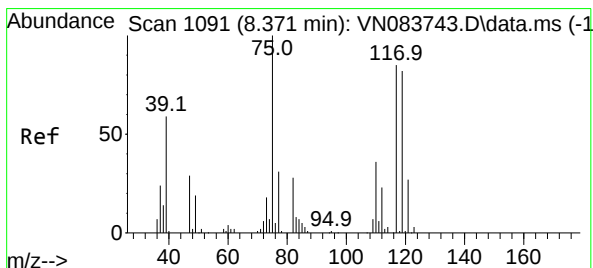
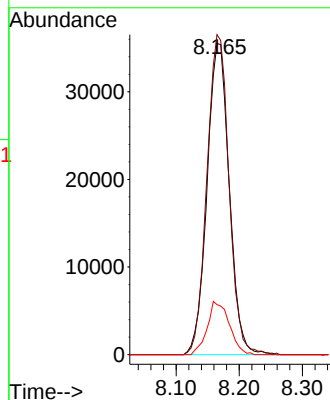
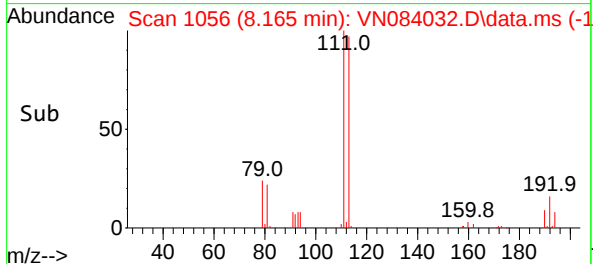


#35  
Dibromofluoromethane  
Concen: 49.493 ug/l  
RT: 8.165 min Scan# 1056  
Delta R.T. -0.000 min  
Lab File: VN084032.D  
Acq: 19 Sep 2024 14:18

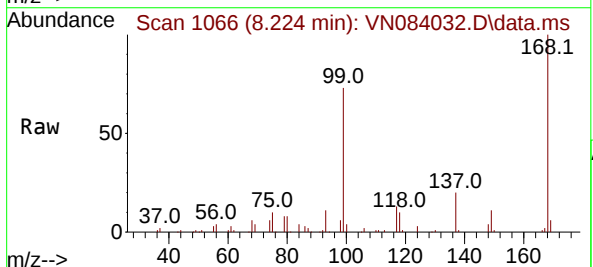
Instrument :  
MSVOA\_N  
ClientSampleId :



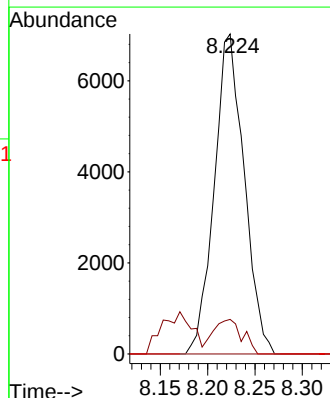
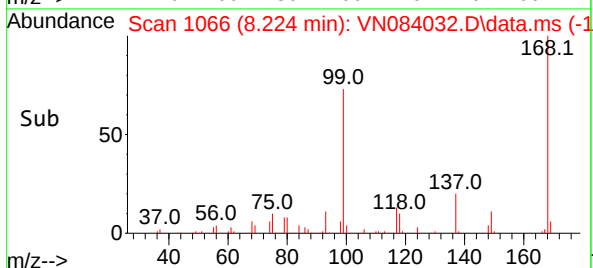
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Ion Ratio Lower Upper  
113 100  
111 102.1 82.6 124.0  
192 17.0 14.3 21.5

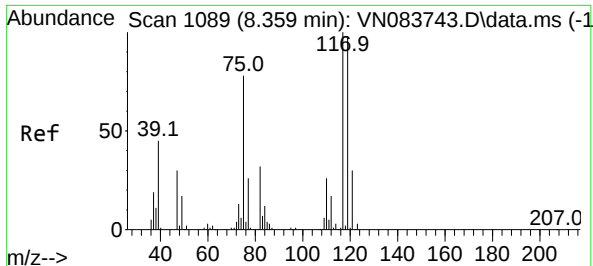


#36  
1,1-Dichloropropene  
Concen: 5.841 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.147 min  
Lab File: VN084032.D  
Acq: 19 Sep 2024 14:18



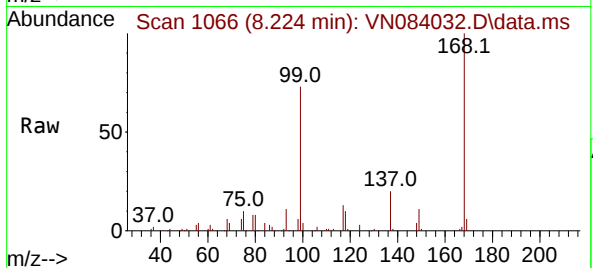
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Ion Ratio Lower Upper  
75 100  
110 10.5 16.7 50.1#  
77 0.0 25.2 37.8#



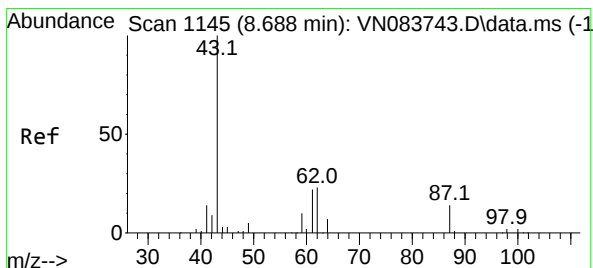
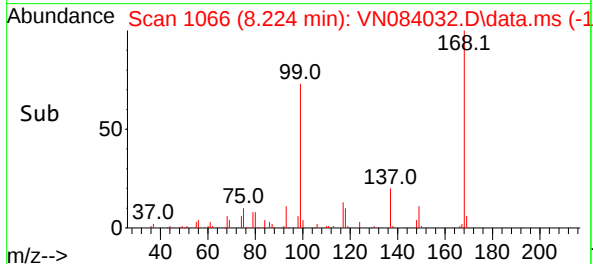
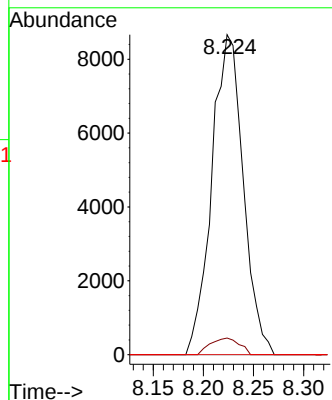


#38  
Carbon Tetrachloride  
Concen: 6.311 ug/l  
RT: 8.224 min Scan# 1106  
Delta R.T. -0.135 min  
Lab File: VN084032.D  
Acq: 19 Sep 2024 14:18

Instrument :  
MSVOA\_N  
ClientSampleId :

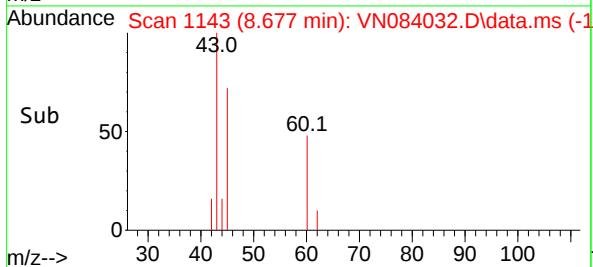
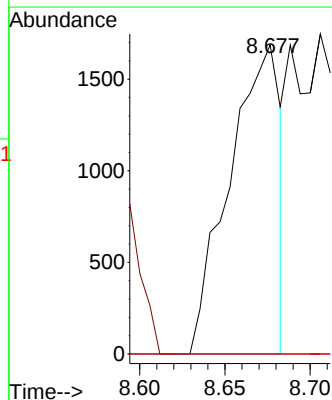
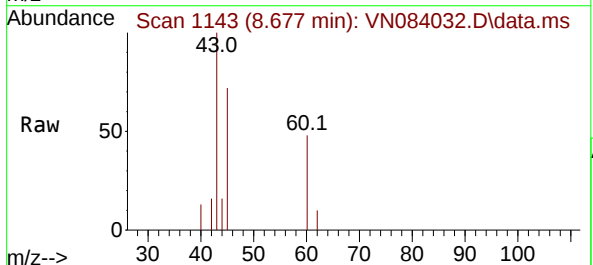


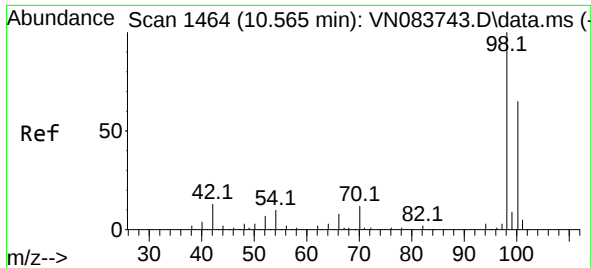
Tgt Ion:117 Resp: 18908  
Ion Ratio Lower Upper  
117 100  
119 5.2 76.1 114.1#  
121 0.0 24.1 36.1#



#43  
Isopropyl Acetate  
Concen: 0.804 ug/l  
RT: 8.677 min Scan# 1143  
Delta R.T. -0.012 min  
Lab File: VN084032.D  
Acq: 19 Sep 2024 14:18

Tgt Ion: 43 Resp: 3494  
Ion Ratio Lower Upper  
43 100  
61 0.0 19.4 29.0#  
87 0.0 9.8 14.6#

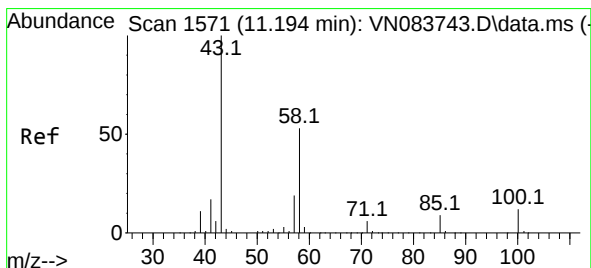
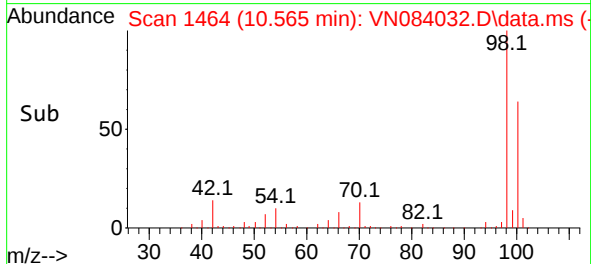
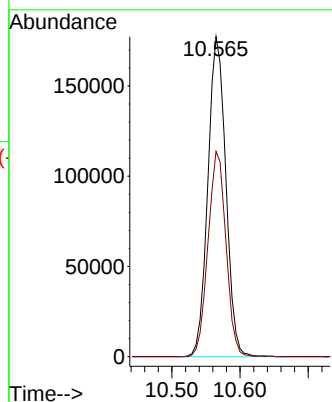
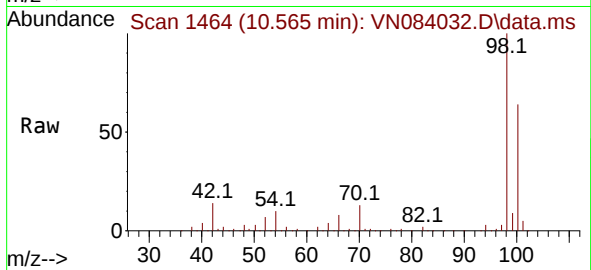




#50  
Toluene-d8  
Concen: 53.591 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. -0.000 min  
Lab File: VN084032.D  
Acq: 19 Sep 2024 14:18

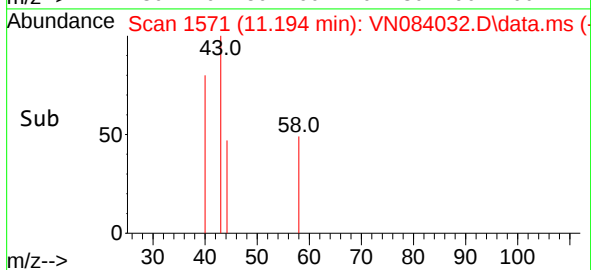
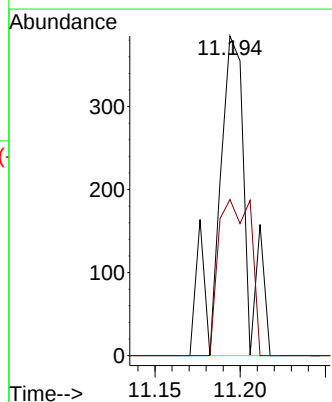
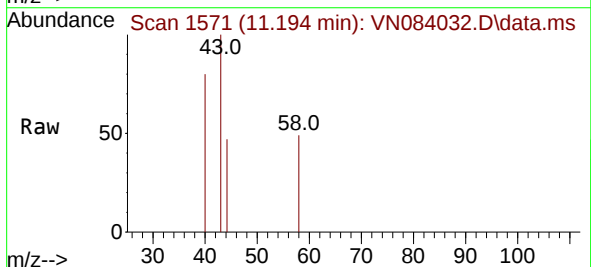
Instrument :  
MSVOA\_N  
ClientSampleId :

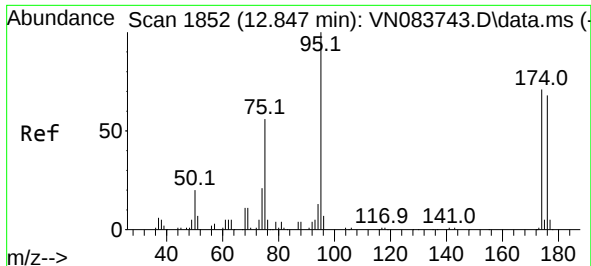
Tgt Ion: 98 Resp: 325063  
Ion Ratio Lower Upper  
98 100  
100 64.2 52.0 78.0



#59  
2-Hexanone  
Concen: 0.257 ug/l  
RT: 11.194 min Scan# 1571  
Delta R.T. -0.000 min  
Lab File: VN084032.D  
Acq: 19 Sep 2024 14:18

Tgt Ion: 43 Resp: 449  
Ion Ratio Lower Upper  
43 100  
58 55.0 27.2 81.5

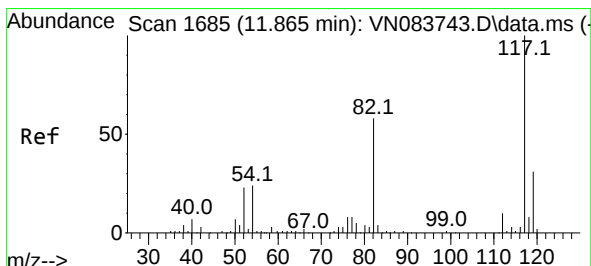
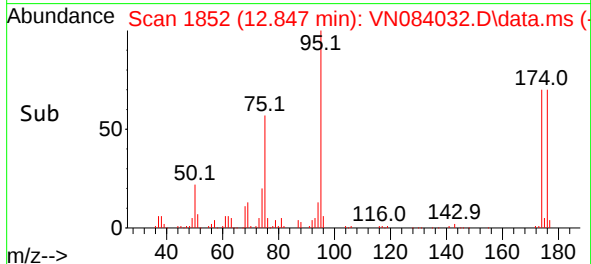
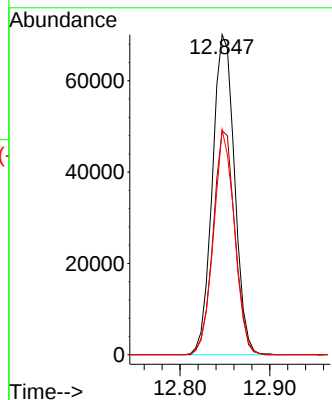
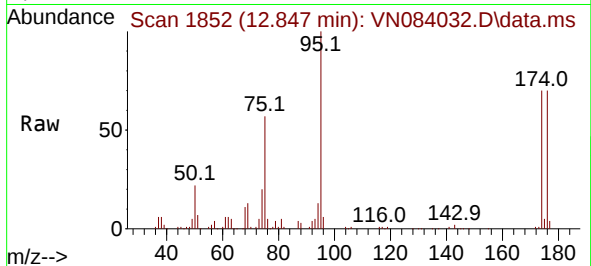




#62  
4-Bromofluorobenzene  
Concen: 48.010 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.000 min  
Lab File: VN084032.D  
Acq: 19 Sep 2024 14:18

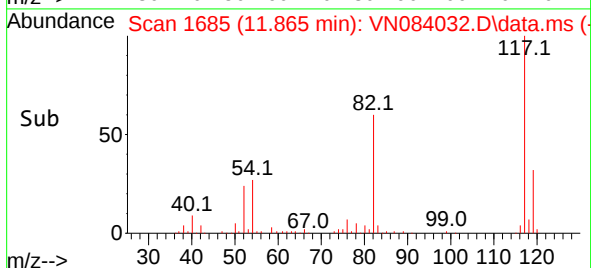
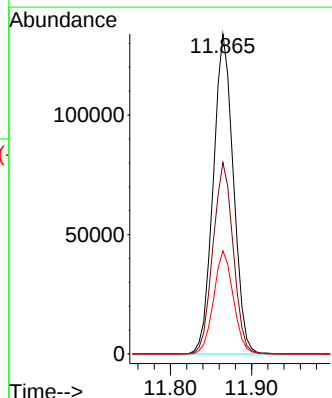
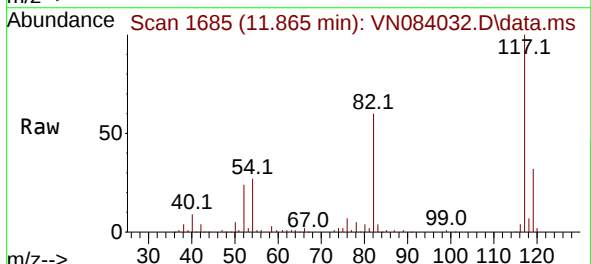
Instrument :  
MSVOA\_N  
ClientSampleId :

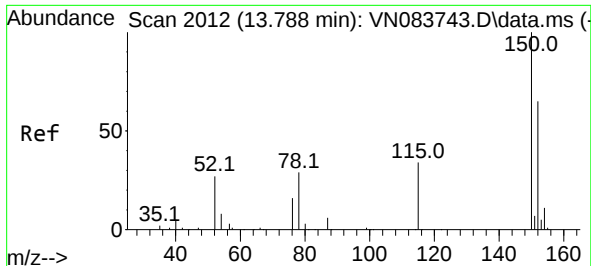
Tgt Ion: 95 Resp: 120145  
Ion Ratio Lower Upper  
95 100  
174 69.0 0.0 139.8  
176 66.6 0.0 131.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 1685  
Delta R.T. -0.000 min  
Lab File: VN084032.D  
Acq: 19 Sep 2024 14:18

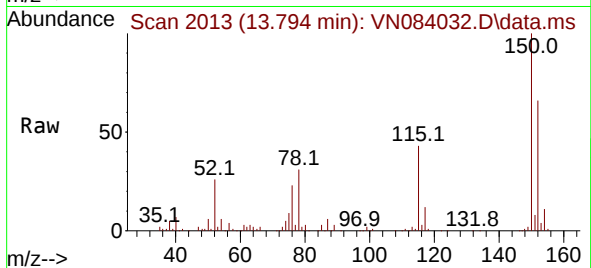
Tgt Ion: 117 Resp: 230762  
Ion Ratio Lower Upper  
117 100  
82 59.9 47.4 71.0  
119 32.2 26.3 39.5



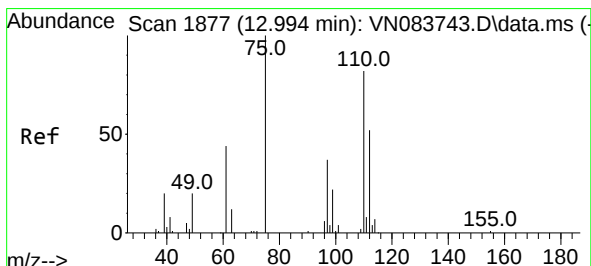
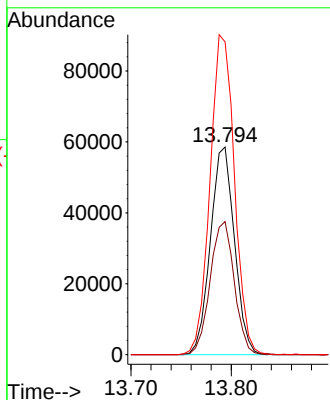
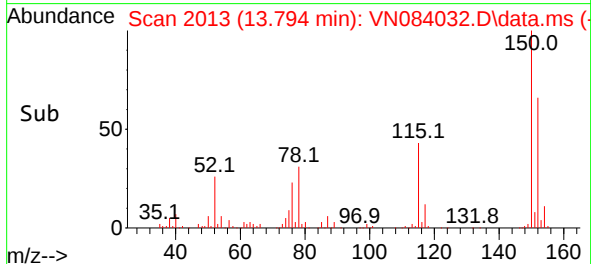


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.794 min Scan# 20  
Delta R.T. 0.006 min  
Lab File: VN084032.D  
Acq: 19 Sep 2024 14:18

Instrument :  
MSVOA\_N  
ClientSampleId :

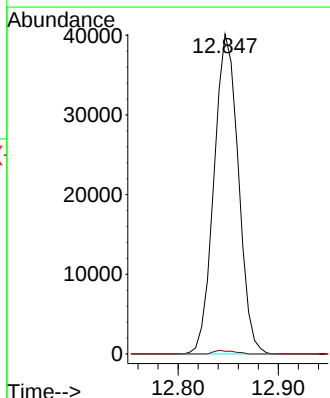
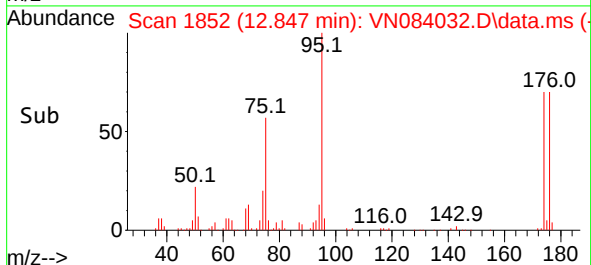
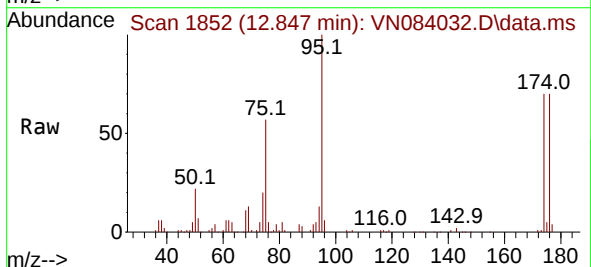


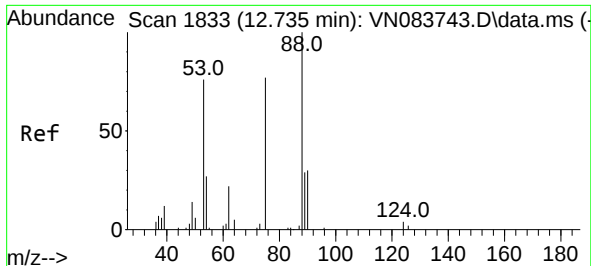
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 64.3  | 32.2  | 96.6  |
| 150     | 156.2 | 0.0   | 348.6 |



#76  
1,2,3-Trichloropropane  
Concen: 34.411 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.147 min  
Lab File: VN084032.D  
Acq: 19 Sep 2024 14:18

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 75      | 100   |       |        |
| 77      | 0.9   | 95.2  | 285.6# |

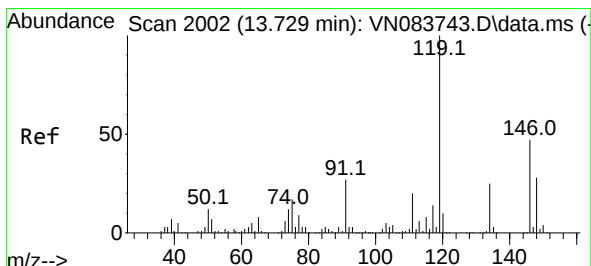
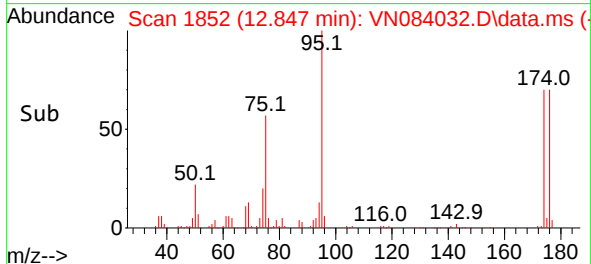
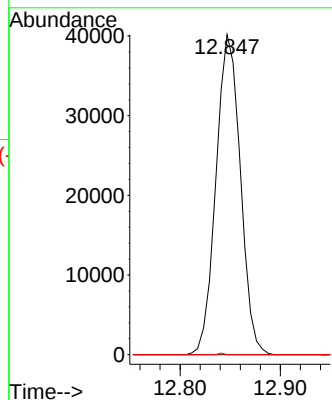
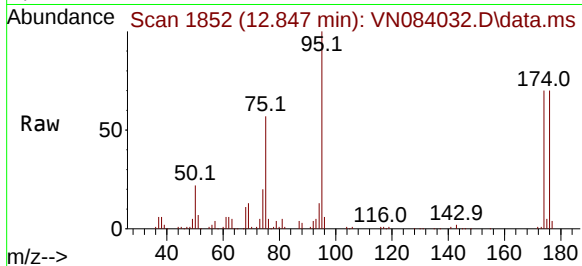




#81  
trans-1,4-Dichloro-2-butene  
Concen: 90.126 ug/l  
RT: 12.847 min Scan# 1833  
Delta R.T. 0.112 min  
Lab File: VN084032.D  
Acq: 19 Sep 2024 14:18

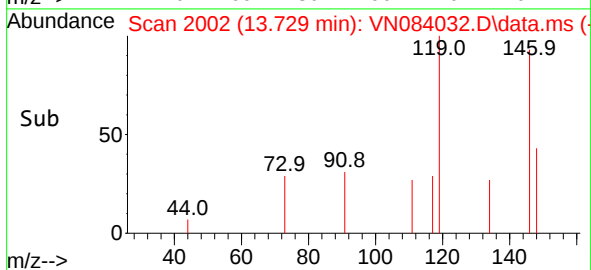
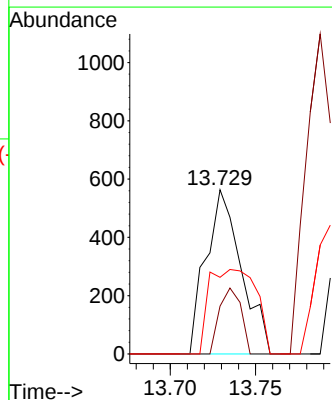
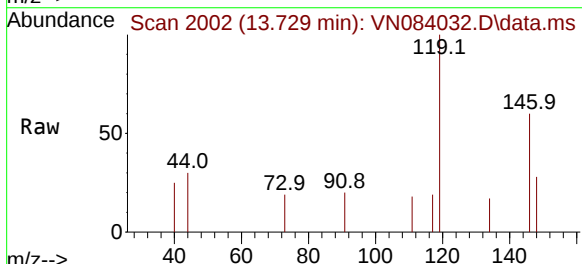
Instrument :  
MSVOA\_N  
ClientSampleId :

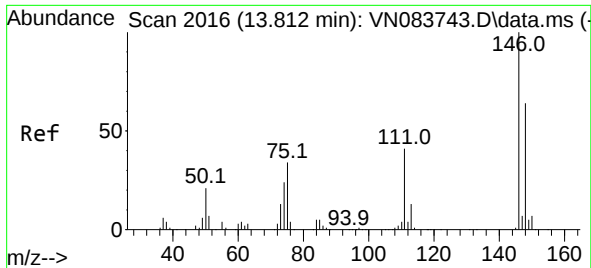
Tgt Ion: 75 Resp: 67827  
Ion Ratio Lower Upper  
75 100  
53 0.0 81.2 121.8#  
89 0.1 35.7 53.5#



#87  
1,3-Dichlorobenzene  
Concen: 0.237 ug/l  
RT: 13.729 min Scan# 2002  
Delta R.T. -0.000 min  
Lab File: VN084032.D  
Acq: 19 Sep 2024 14:18

Tgt Ion:146 Resp: 814  
Ion Ratio Lower Upper  
146 100  
111 24.6 21.7 65.1  
148 68.4 31.7 95.1

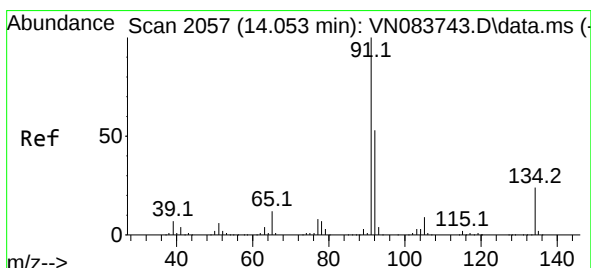
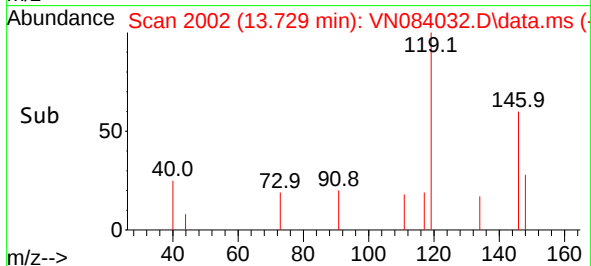
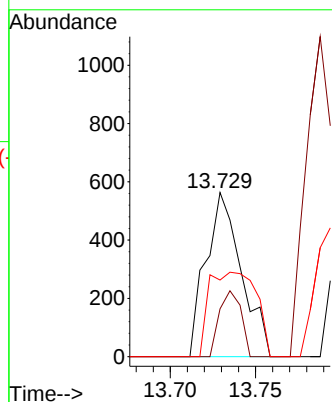
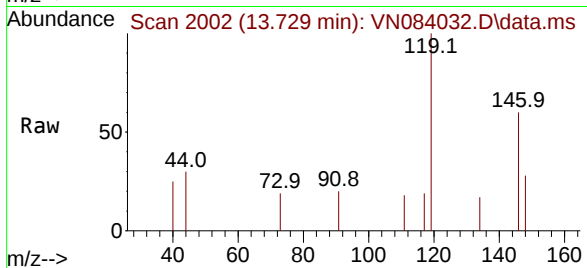




#88  
1,4-Dichlorobenzene  
Concen: 0.234 ug/l  
RT: 13.729 min Scan# 2016  
Delta R.T. -0.082 min  
Lab File: VN084032.D  
Acq: 19 Sep 2024 14:18

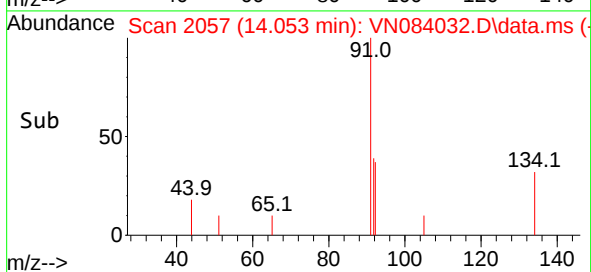
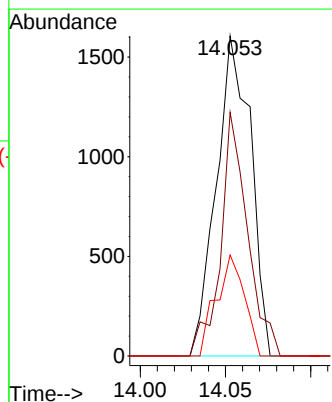
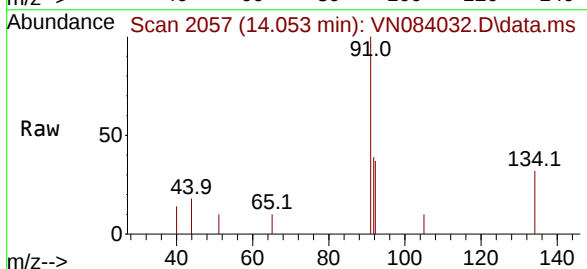
Instrument :  
MSVOA\_N  
ClientSampleId :

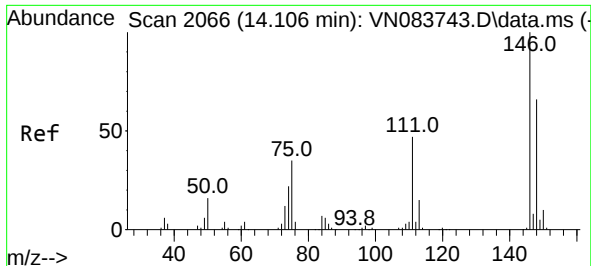
Tgt Ion:146 Resp: 814  
Ion Ratio Lower Upper  
146 100  
111 24.6 21.3 64.0  
148 68.4 32.0 96.2



#89  
n-Butylbenzene  
Concen: 0.405 ug/l  
RT: 14.053 min Scan# 2057  
Delta R.T. -0.000 min  
Lab File: VN084032.D  
Acq: 19 Sep 2024 14:18

Tgt Ion: 91 Resp: 2252  
Ion Ratio Lower Upper  
91 100  
92 59.5 26.7 80.1  
134 25.8 12.2 36.4





#91

1,2-Dichlorobenzene

Concen: 0.265 ug/l

RT: 14.111 min Scan# 2066

Delta R.T. 0.006 min

Lab File: VN084032.D

Acq: 19 Sep 2024 14:18

Instrument :

MSVOA\_N

ClientSampleId :

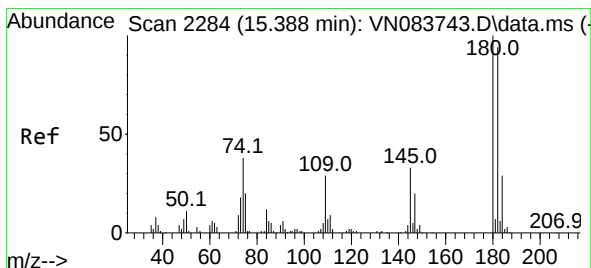
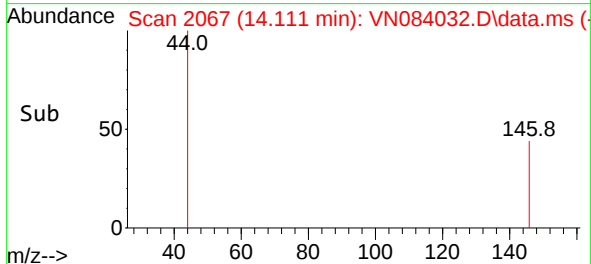
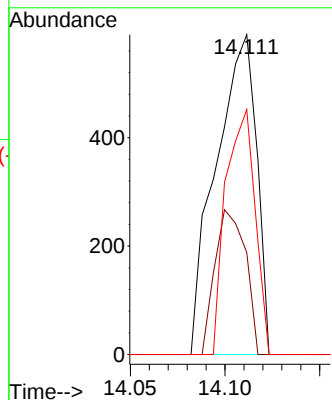
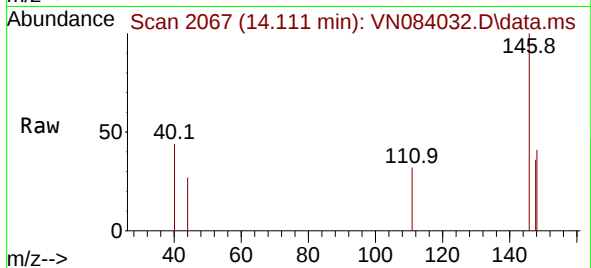
Tgt Ion:146 Resp: 877

Ion Ratio Lower Upper

146 100

111 34.1 22.8 68.3

148 55.2 32.1 96.5



#93

1,2,4-Trichlorobenzene

Concen: 0.668 ug/l

RT: 15.388 min Scan# 2284

Delta R.T. -0.000 min

Lab File: VN084032.D

Acq: 19 Sep 2024 14:18

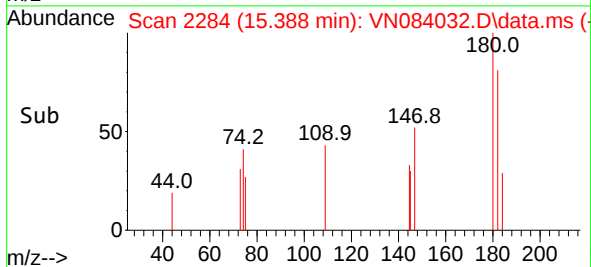
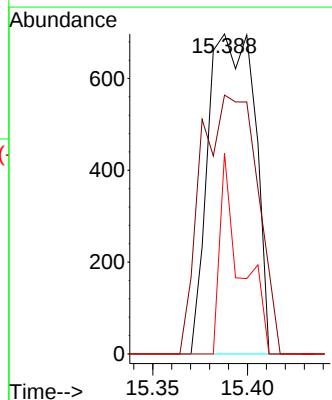
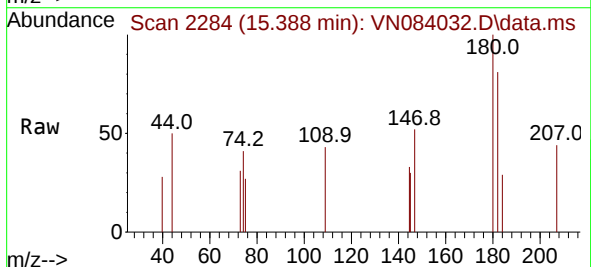
Tgt Ion:180 Resp: 1188

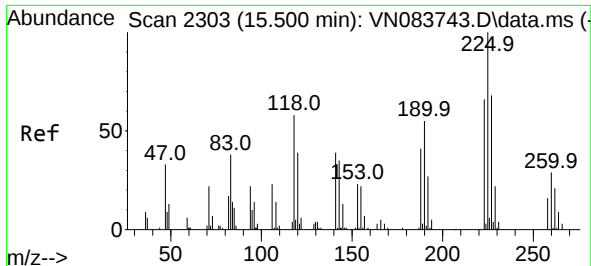
Ion Ratio Lower Upper

180 100

182 98.5 48.1 144.3

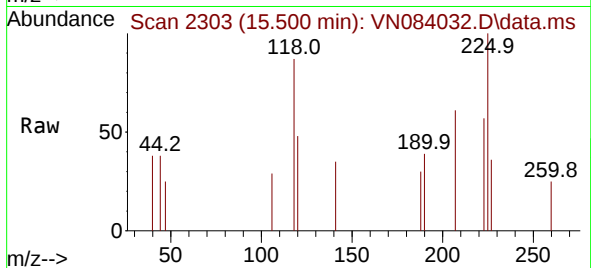
145 28.5 16.9 50.7



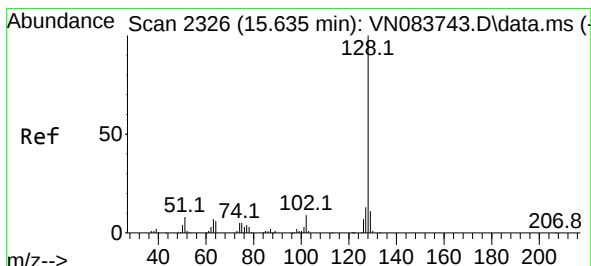
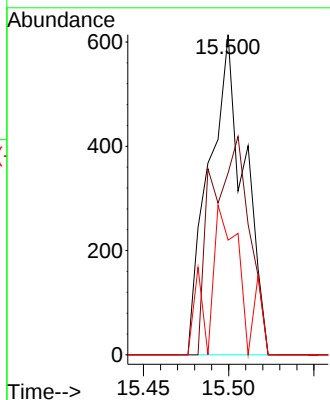
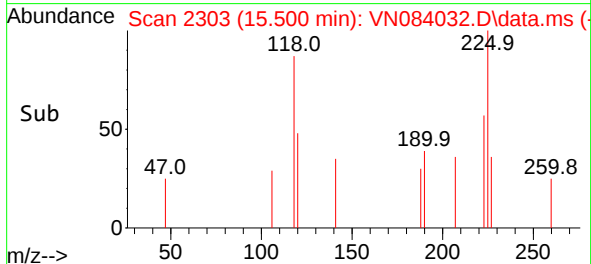


#94  
Hexachlorobutadiene  
Concen: 1.177 ug/l  
RT: 15.500 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VN084032.D  
Acq: 19 Sep 2024 14:18

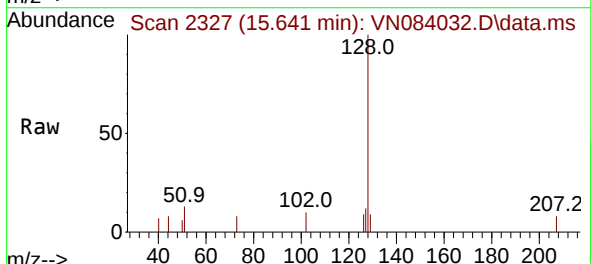
Instrument :  
MSVOA\_N  
ClientSampleId :



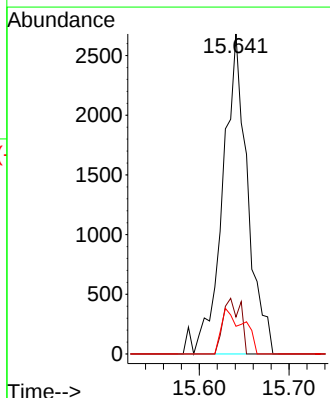
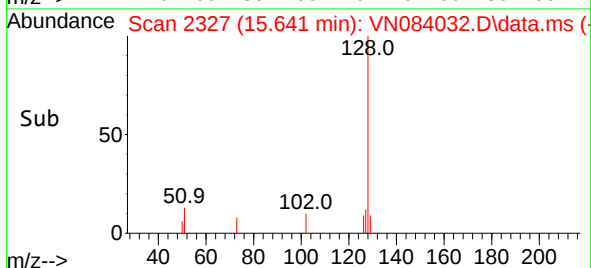
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 225   | Resp: | 889   |
| Ion      | Ratio | Lower | Upper |
| 225      | 100   |       |       |
| 223      | 72.2  | 31.9  | 95.5  |
| 227      | 42.1  | 32.0  | 96.2  |

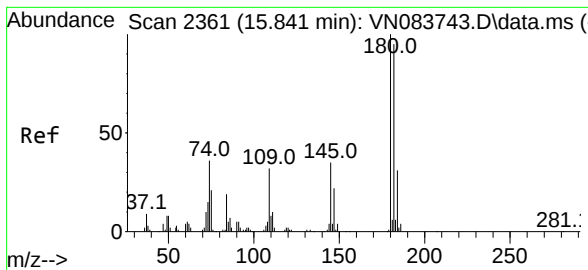


#95  
Naphthalene  
Concen: 0.956 ug/l  
RT: 15.641 min Scan# 2327  
Delta R.T. 0.006 min  
Lab File: VN084032.D  
Acq: 19 Sep 2024 14:18



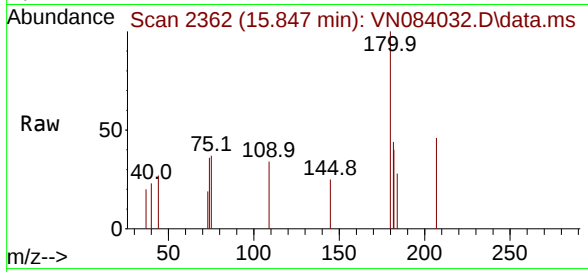
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 5169  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 12.1  | 10.2  | 15.2  |
| 129      | 12.6  | 8.7   | 13.1  |





#96  
 1,2,3-Trichlorobenzene  
 Concen: 1.048 ug/l  
 RT: 15.847 min Scan# 21  
 Delta R.T. 0.006 min  
 Lab File: VN084032.D  
 Acq: 19 Sep 2024 14:18

Instrument :  
 MSVOA\_N  
 ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 1781  |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 86.0  | 47.1  | 141.4 |
| 145      | 25.2  | 17.8  | 53.5  |

