

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN050422\  
 Data File : VN072319.D  
 Acq On : 04 May 2022 11:18  
 Operator : JC\MD  
 Sample : VN0504MBL01  
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0504MBL01

Quant Time: May 04 14:19:25 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N042622W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 26 18:50:11 2022  
 Response via : Initial Calibration

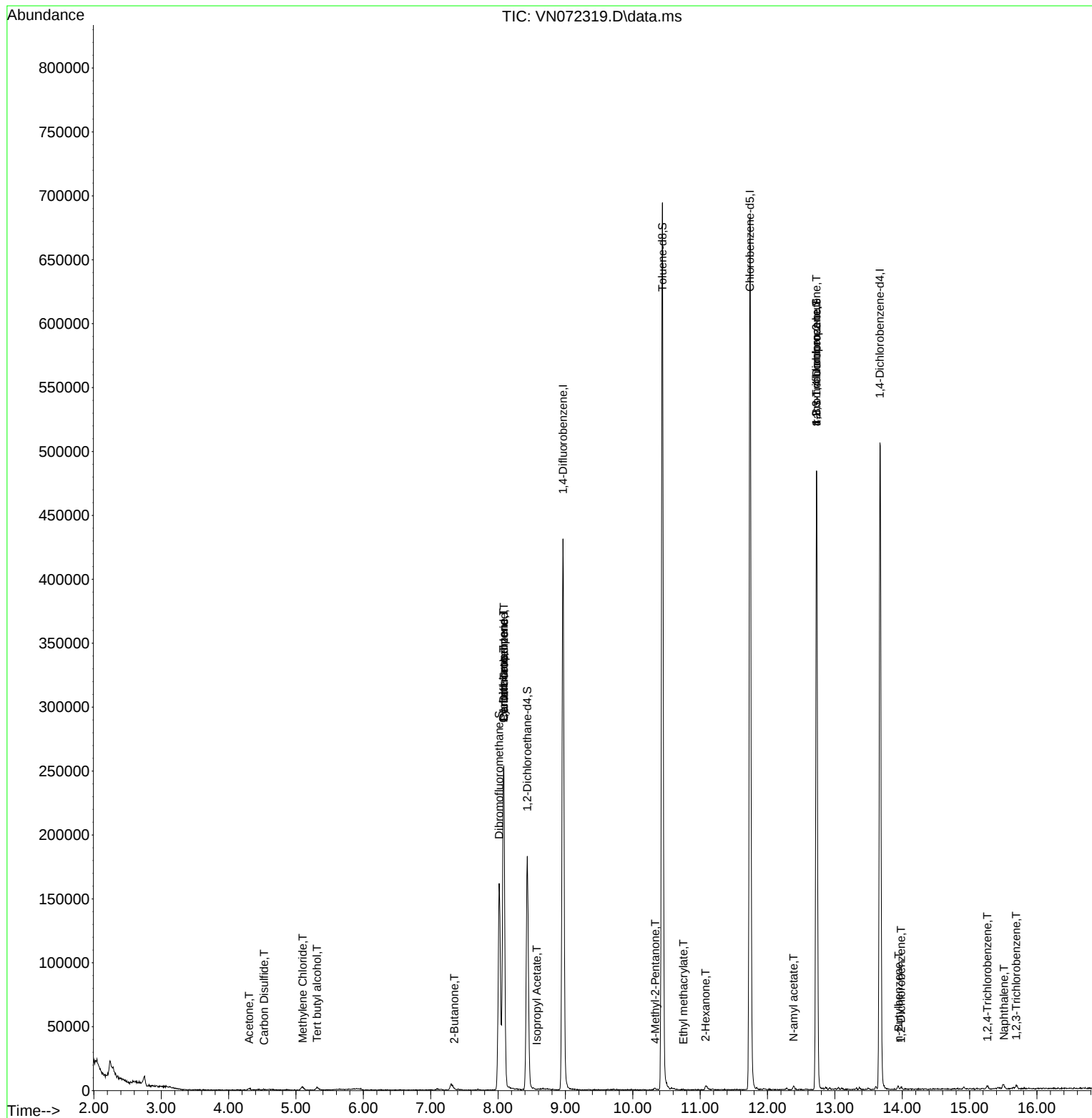
| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 8.086          | 168  | 182746              | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.963          | 114  | 354887              | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.739         | 117  | 382192              | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.668         | 152  | 137738              | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.433          | 65   | 156843              | 55.904    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 61 - 141 |      | Recovery = 111.800% |           |        |          |
| 35) Dibromofluoromethane      | 8.016          | 113  | 117620              | 51.781    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 69 - 133 |      | Recovery = 103.560% |           |        |          |
| 50) Toluene-d8                | 10.439         | 98   | 463581              | 51.939    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 126 |      | Recovery = 103.880% |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.727         | 95   | 167898              | 56.673    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 135 |      | Recovery = 113.340% |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      |                     |           |        |          |
|                               |                |      |                     |           | Qvalue |          |
| 3) Chloromethane              | 2.299          | 50   | 917                 | Below Cal | #      | 43       |
| 5) Bromomethane               | 2.881          | 94   | 392                 | Below Cal | #      | 2        |
| 6) Chloroethane               | 3.022          | 64   | 399                 | Below Cal | #      | 42       |
| 11) Tert butyl alcohol        | 5.310          | 59   | 2240                | 4.858     | ug/l # | 72       |
| 16) Acetone                   | 4.304          | 43   | 1155                | 0.955     | ug/l   | 99       |
| 17) Carbon Disulfide          | 4.528          | 76   | 380                 | 0.455     | ug/l # | 75       |
| 20) Methylene Chloride        | 5.098          | 84   | 2142                | 0.924     | ug/l # | 66       |
| 25) 2-Butanone                | 7.351          | 43   | 1231                | 0.639     | ug/l # | 45       |
| 31) Cyclohexane               | 8.081          | 56   | 4904                | 1.308     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 8.081          | 75   | 16716               | 5.056     | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 8.086          | 117  | 19685               | 5.559     | ug/l # | 16       |
| 43) Isopropyl Acetate         | 8.575          | 43   | 72                  | 0.811     | ug/l # | 53       |
| 51) 4-Methyl-2-Pentanone      | 10.333         | 43   | 1672                | 0.404     | ug/l # | 60       |
| 56) Ethyl methacrylate        | 10.751         | 69   | 82                  | 2.383     | ug/l # | 28       |
| 59) 2-Hexanone                | 11.080         | 43   | 3681                | 1.261     | ug/l   | 82       |
| 74) N-amyl acetate            | 12.386         | 43   | 2452                | 0.538     | ug/l # | 67       |
| 75) 1,1,2,2-Tetrachloroethane | 12.821         | 83   | 279                 | Below Cal | #      | 77       |
| 76) 1,2,3-Trichloropropane    | 12.727         | 75   | 90527               | 29.265    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.727         | 75   | 90527               | 75.994    | ug/l # | 10       |
| 89) n-Butylbenzene            | 13.945         | 91   | 1984                | 0.286     | ug/l   | 89       |
| 91) 1,2-Dichlorobenzene       | 13.980         | 146  | 1117                | 0.243     | ug/l   | 77       |
| 93) 1,2,4-Trichlorobenzene    | 15.262         | 180  | 1205                | 2.960     | ug/l   | 92       |
| 95) Naphthalene               | 15.509         | 128  | 5083                | 4.951     | ug/l # | 94       |
| 96) 1,2,3-Trichlorobenzene    | 15.692         | 180  | 1398                | 3.299     | ug/l   | 84       |
| -----                         |                |      |                     |           |        |          |

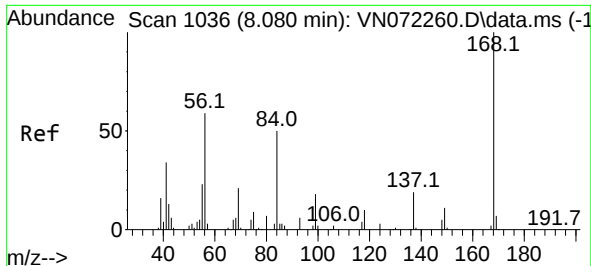
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Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN050422\  
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ALS Vial : 3 Sample Multiplier: 1

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Quant Title : SW846 8260  
QLast Update : Tue Apr 26 18:50:11 2022  
Response via : Initial Calibration

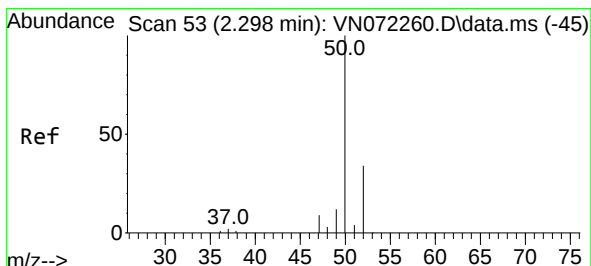
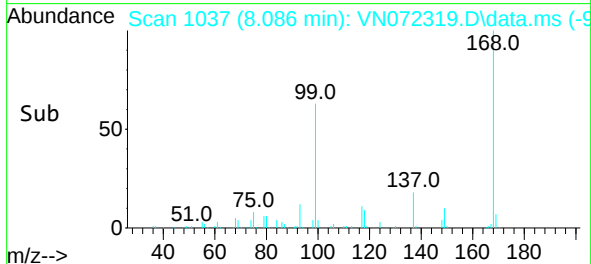
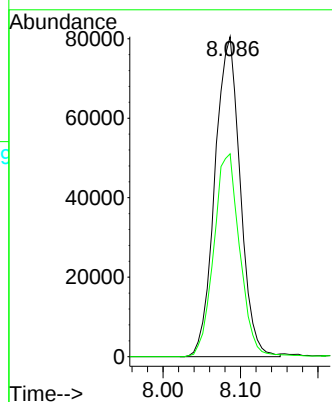
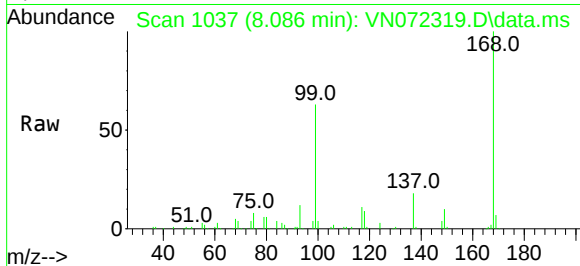




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.086 min Scan# 1037  
Delta R.T. 0.005 min  
Lab File: VN072319.D  
Acq: 04 May 2022 11:18

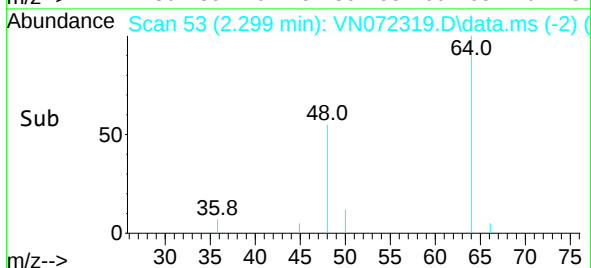
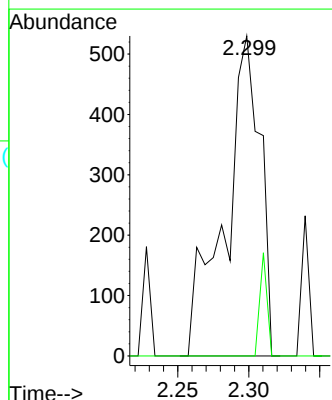
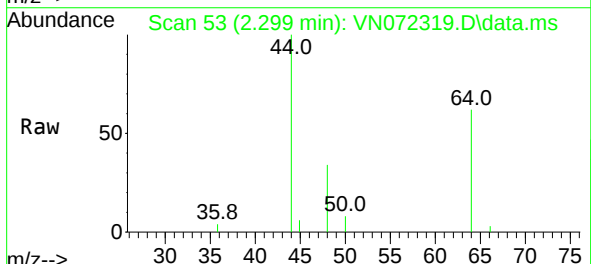
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0504MBL01

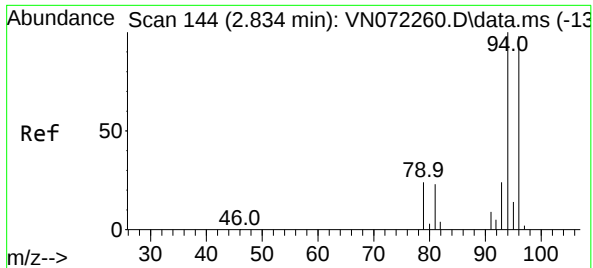
Tgt Ion:168 Resp: 182746  
Ion Ratio Lower Upper  
168 100  
99 63.4 42.3 63.5



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.299 min Scan# 53  
Delta R.T. -0.000 min  
Lab File: VN072319.D  
Acq: 04 May 2022 11:18

Tgt Ion: 50 Resp: 917  
Ion Ratio Lower Upper  
50 100  
52 0.0 25.7 38.5#

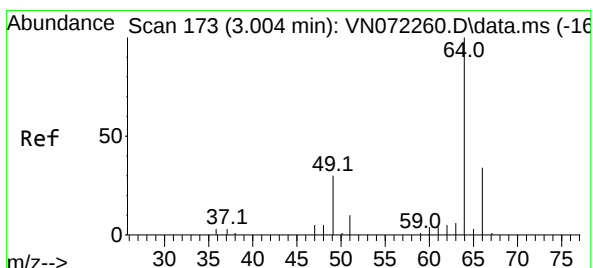
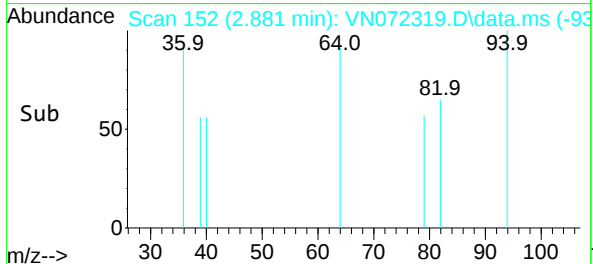
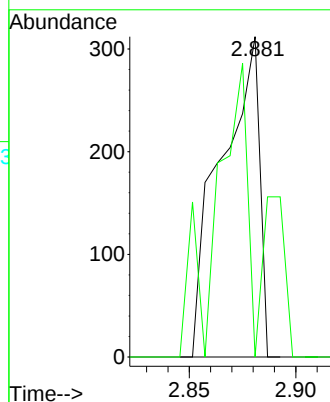
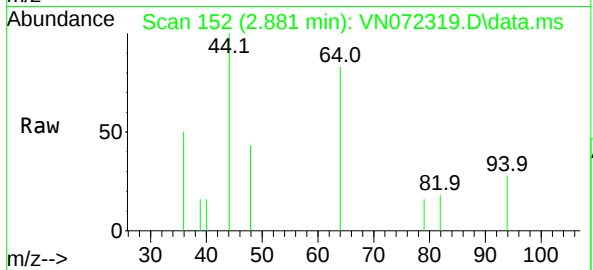




#5  
Bromomethane  
Concen: Below Cal  
RT: 2.881 min Scan# 11  
Delta R.T. 0.047 min  
Lab File: VN072319.D  
Acq: 04 May 2022 11:18

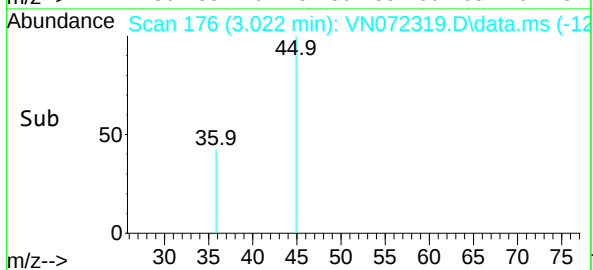
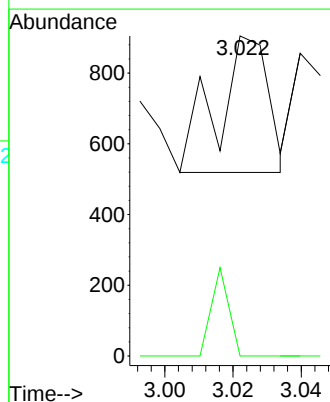
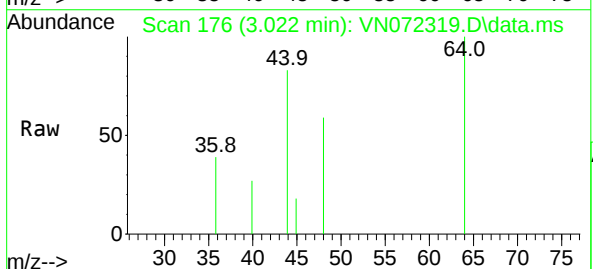
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0504MBL01

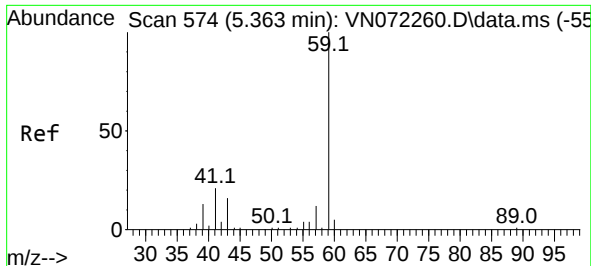
Tgt Ion: 94 Resp: 392  
Ion Ratio Lower Upper  
94 100  
96 0.0 76.0 114.0#



#6  
Chloroethane  
Concen: Below Cal  
RT: 3.022 min Scan# 176  
Delta R.T. 0.017 min  
Lab File: VN072319.D  
Acq: 04 May 2022 11:18

Tgt Ion: 64 Resp: 399  
Ion Ratio Lower Upper  
64 100  
66 0.0 26.2 39.4#

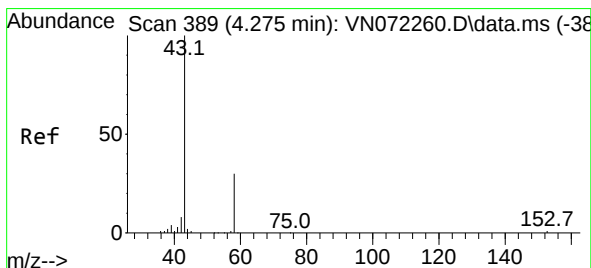
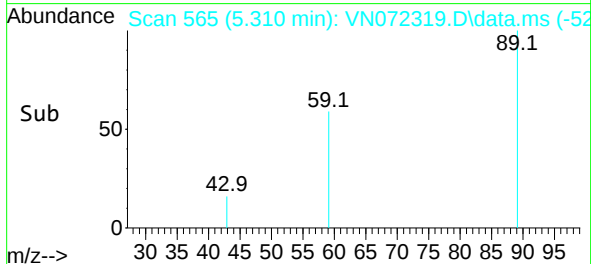
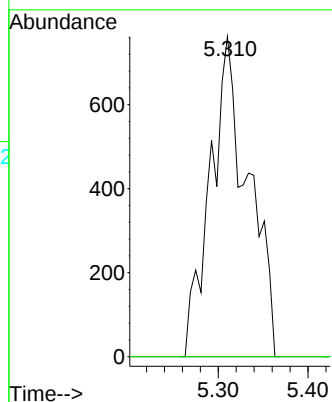
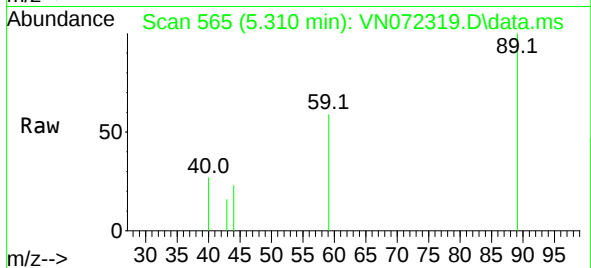




#11  
Tert butyl alcohol  
Concen: 4.858 ug/l  
RT: 5.310 min Scan# 50  
Delta R.T. -0.053 min  
Lab File: VN072319.D  
Acq: 04 May 2022 11:18

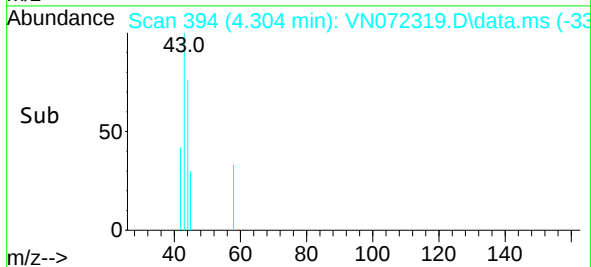
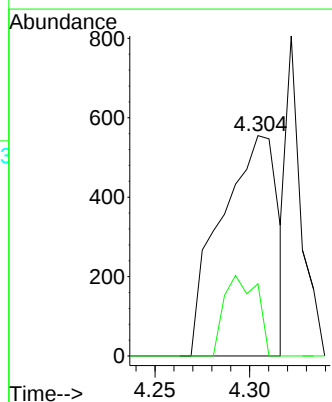
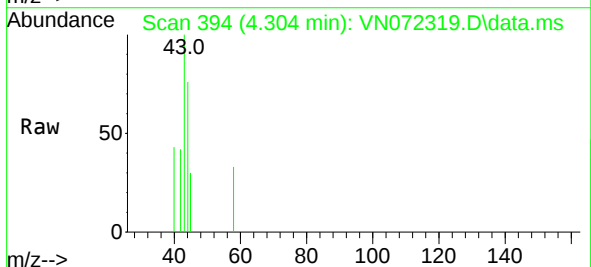
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0504MBL01

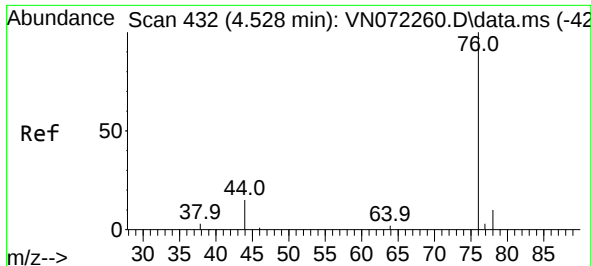
Tgt Ion: 59 Resp: 2240  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.3 12.5#



#16  
Acetone  
Concen: 0.955 ug/l  
RT: 4.304 min Scan# 394  
Delta R.T. 0.023 min  
Lab File: VN072319.D  
Acq: 04 May 2022 11:18

Tgt Ion: 43 Resp: 1155  
Ion Ratio Lower Upper  
43 100  
58 32.8 26.0 39.0





#17

Carbon Disulfide

Concen: 0.455 ug/l

RT: 4.528 min Scan# 41

Delta R.T. -0.006 min

Lab File: VN072319.D

Acq: 04 May 2022 11:18

Instrument :

MSVOA\_N

ClientSampleId :

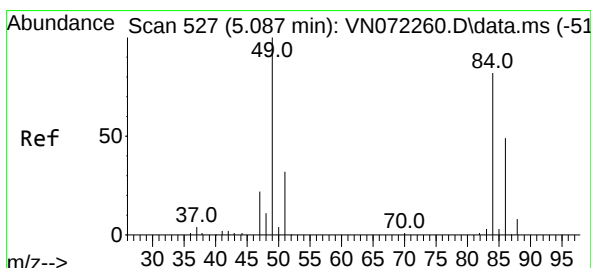
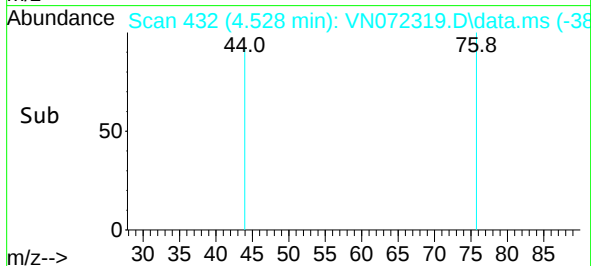
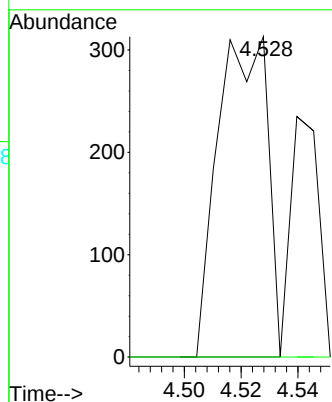
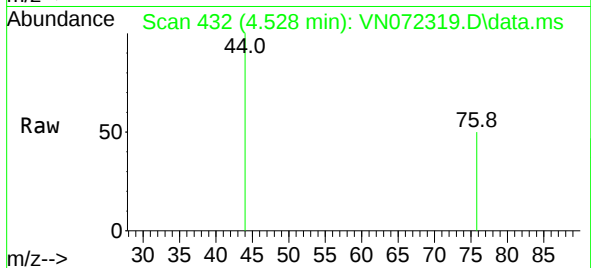
VN0504MBL01

Tgt Ion: 76 Resp: 380

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#



#20

Methylene Chloride

Concen: 0.924 ug/l

RT: 5.098 min Scan# 529

Delta R.T. 0.011 min

Lab File: VN072319.D

Acq: 04 May 2022 11:18

Tgt Ion: 84 Resp: 2142

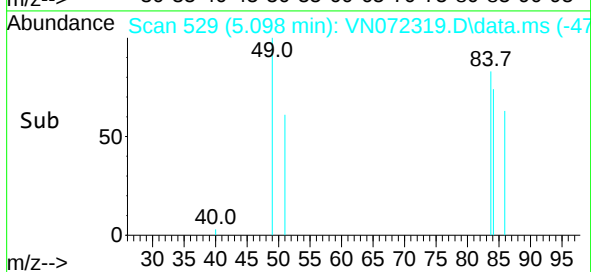
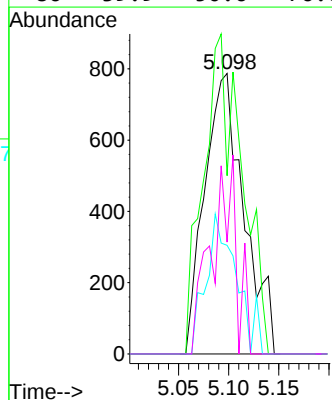
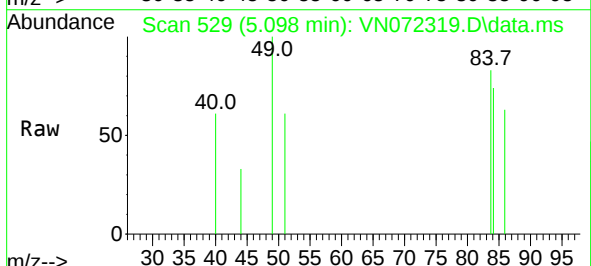
Ion Ratio Lower Upper

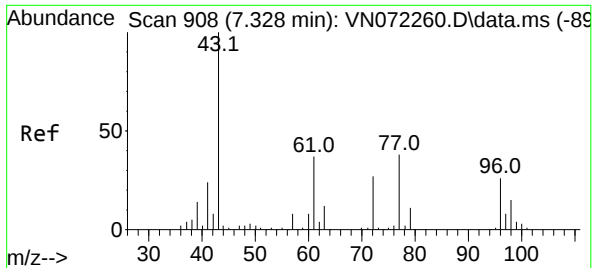
84 100

49 63.5 88.3 132.5#

51 38.8 28.2 42.2

86 39.9 50.6 76.0#

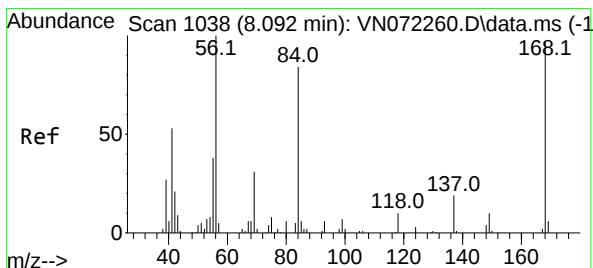
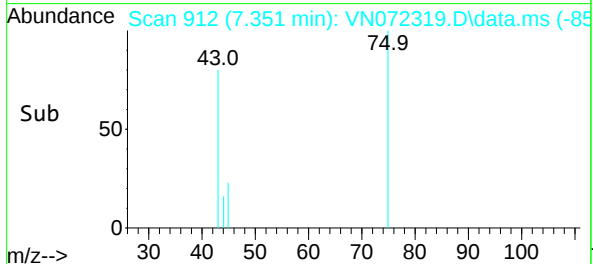
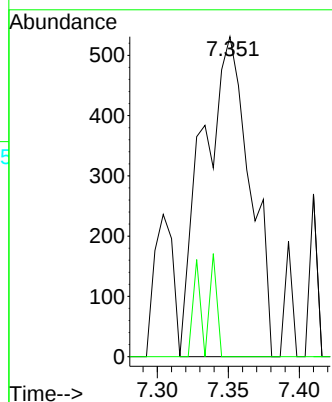
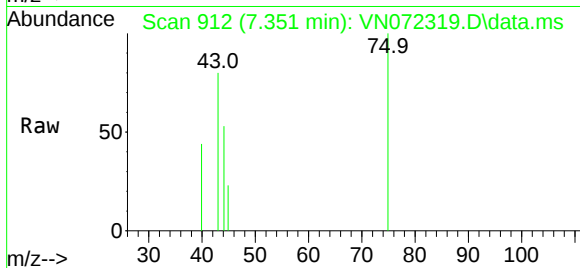




#25  
2-Butanone  
Concen: 0.639 ug/l  
RT: 7.351 min Scan# 912  
Delta R.T. 0.023 min  
Lab File: VN072319.D  
Acq: 04 May 2022 11:18

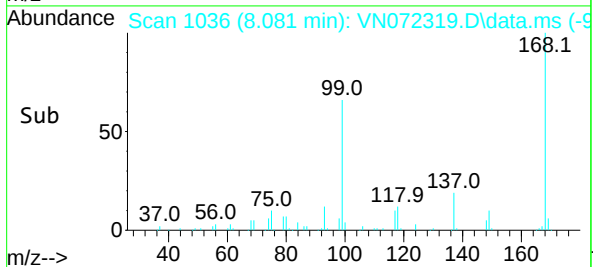
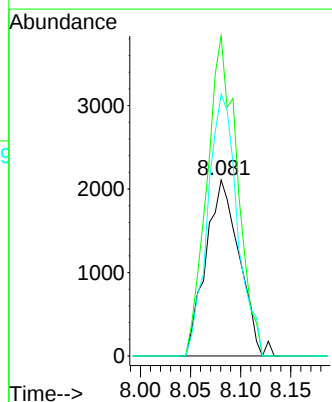
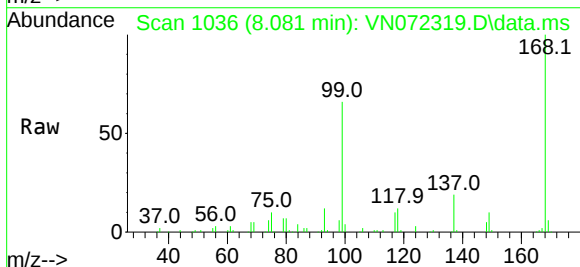
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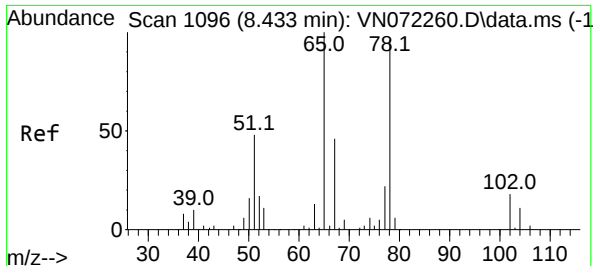
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Ion Ratio Lower Upper  
43 100  
72 0.0 23.7 35.5#



#31  
Cyclohexane  
Concen: 1.308 ug/l  
RT: 8.081 min Scan# 1036  
Delta R.T. -0.011 min  
Lab File: VN072319.D  
Acq: 04 May 2022 11:18

Tgt Ion: 56 Resp: 4904  
Ion Ratio Lower Upper  
56 100  
69 182.0 27.8 41.8#  
84 148.8 76.9 115.3#





#33

1,2-Dichloroethane-d4

Concen: 55.904 ug/l

RT: 8.433 min Scan# 1096

Delta R.T. -0.001 min

Lab File: VN072319.D

Acq: 04 May 2022 11:18

Instrument :

MSVOA\_N

ClientSampleId :

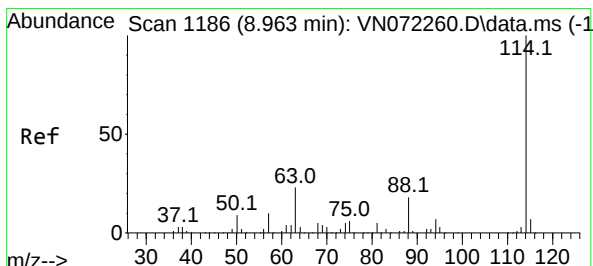
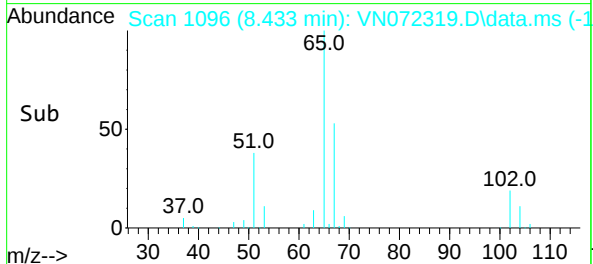
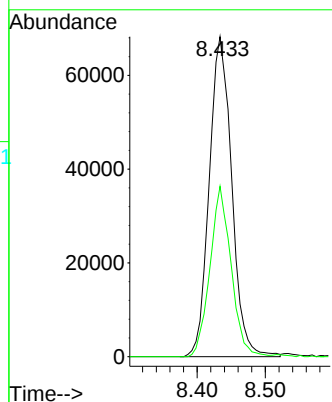
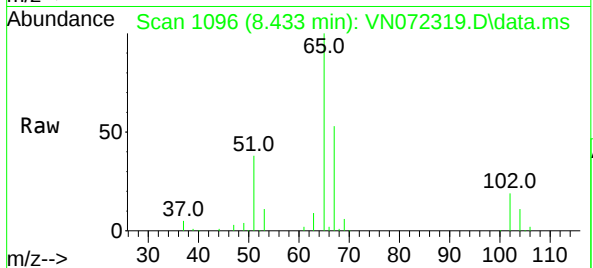
VN0504MBL01

Tgt Ion: 65 Resp: 156843

Ion Ratio Lower Upper

65 100

67 49.9 0.0 104.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.963 min Scan# 1186

Delta R.T. -0.000 min

Lab File: VN072319.D

Acq: 04 May 2022 11:18

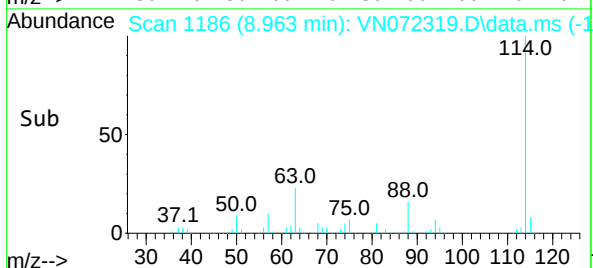
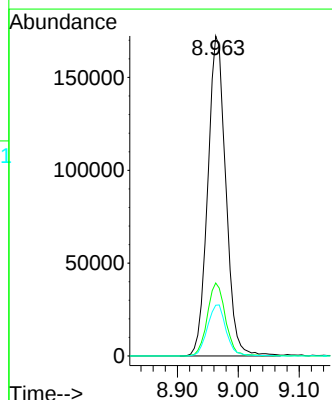
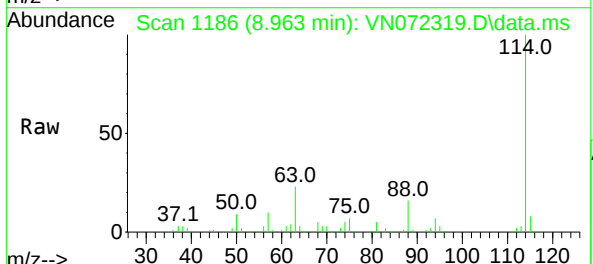
Tgt Ion: 114 Resp: 354887

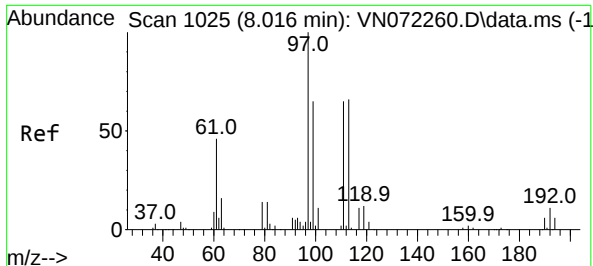
Ion Ratio Lower Upper

114 100

63 22.8 0.0 40.0

88 15.8 0.0 32.6

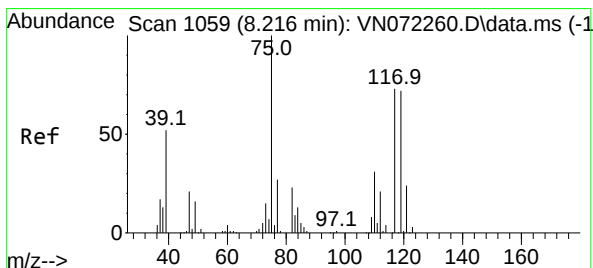
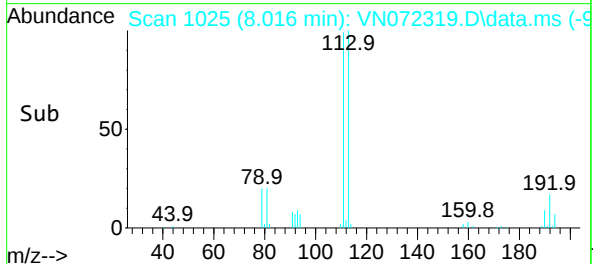
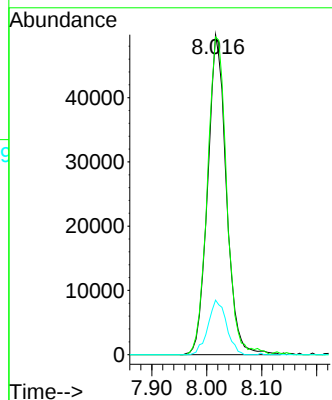
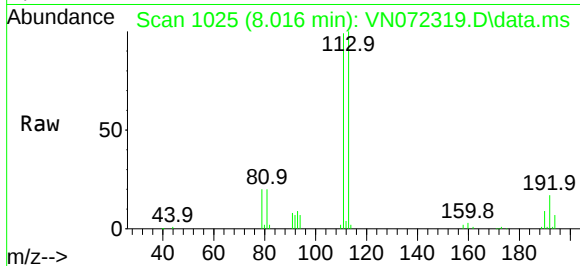




#35  
Dibromofluoromethane  
Concen: 51.781 ug/l  
RT: 8.016 min Scan# 1025  
Delta R.T. -0.000 min  
Lab File: VN072319.D  
Acq: 04 May 2022 11:18

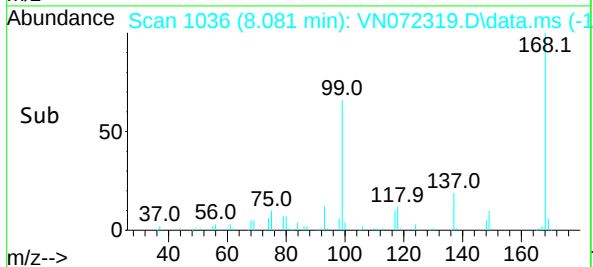
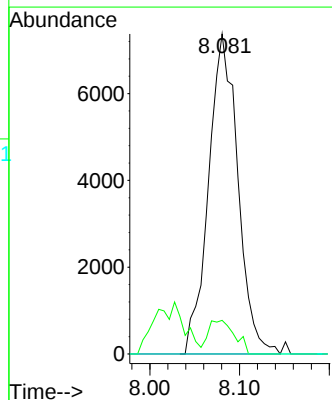
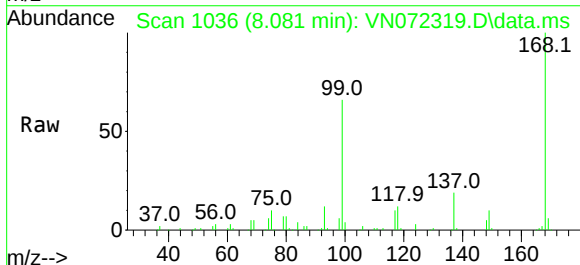
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0504MBL01

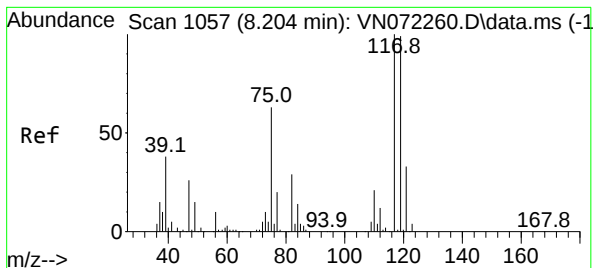
Tgt Ion:113 Resp: 117620  
Ion Ratio Lower Upper  
113 100  
111 102.8 81.4 122.0  
192 16.9 17.0 25.6#



#36  
1,1-Dichloropropene  
Concen: 5.056 ug/l  
RT: 8.081 min Scan# 1036  
Delta R.T. -0.135 min  
Lab File: VN072319.D  
Acq: 04 May 2022 11:18

Tgt Ion: 75 Resp: 16716  
Ion Ratio Lower Upper  
75 100  
110 9.4 18.3 54.8#  
77 0.0 25.1 37.7#





#38

Carbon Tetrachloride

Concen: 5.559 ug/l

RT: 8.086 min Scan# 110

Delta R.T. -0.118 min

Lab File: VN072319.D

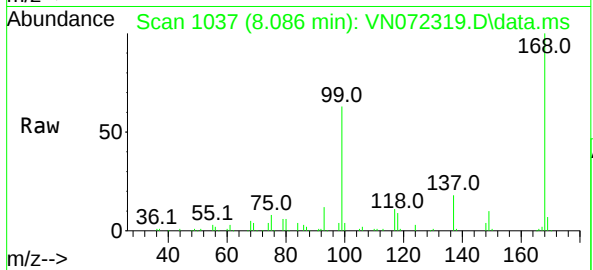
Acq: 04 May 2022 11:18

Instrument :

MSVOA\_N

ClientSampleId :

VN0504MBL01



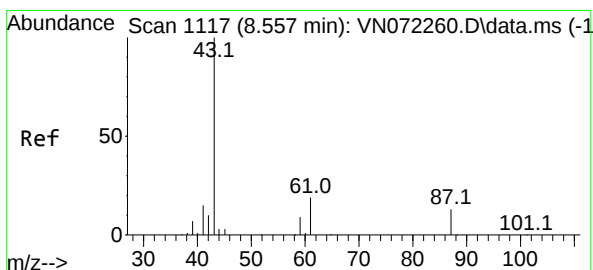
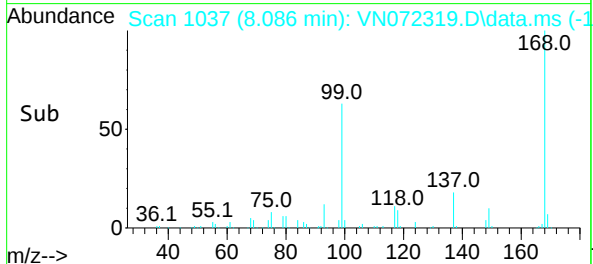
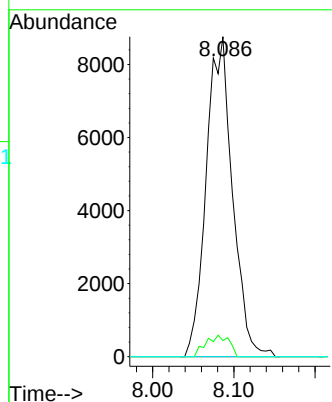
Tgt Ion: 117 Resp: 19685

Ion Ratio Lower Upper

117 100

119 5.0 75.8 113.8#

121 0.0 24.6 37.0#



#43

Isopropyl Acetate

Concen: 0.811 ug/l

RT: 8.575 min Scan# 1120

Delta R.T. 0.018 min

Lab File: VN072319.D

Acq: 04 May 2022 11:18

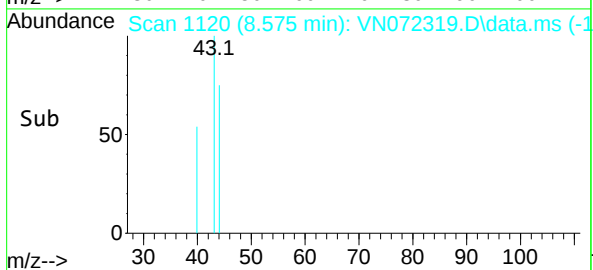
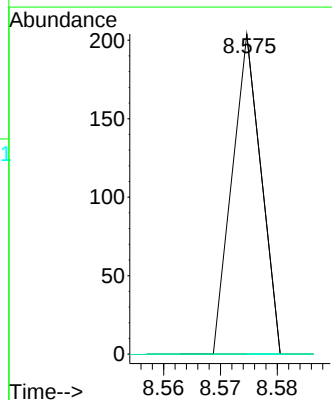
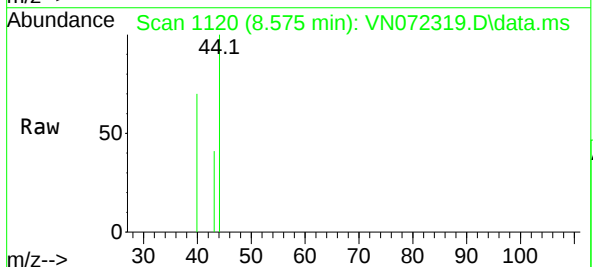
Tgt Ion: 43 Resp: 72

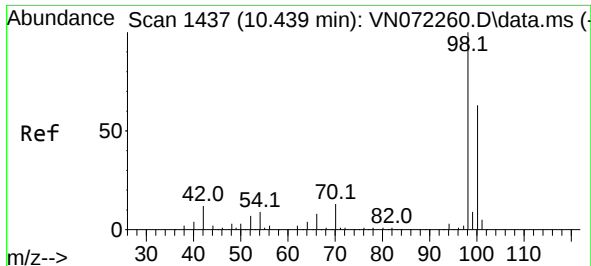
Ion Ratio Lower Upper

43 100

61 0.0 21.9 32.9#

87 0.0 12.0 18.0#

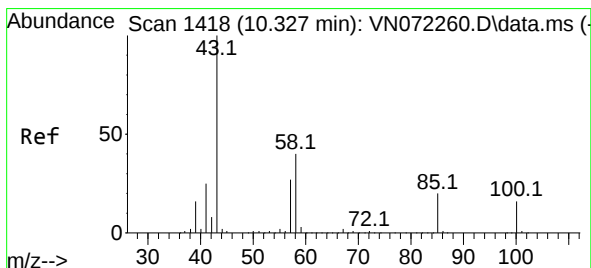
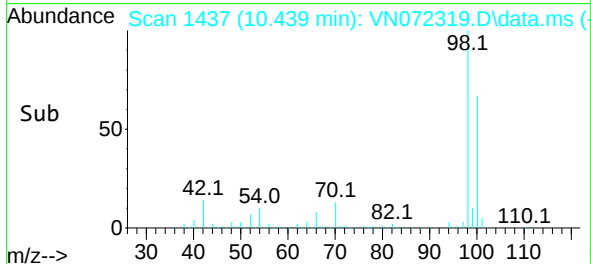
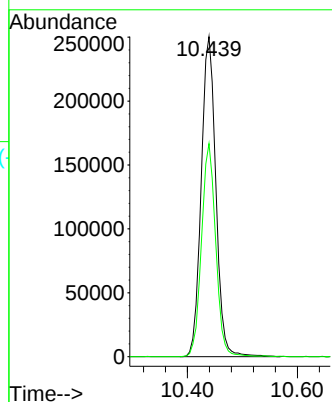
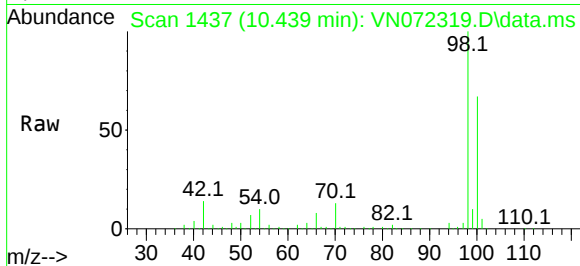




#50  
Toluene-d8  
Concen: 51.939 ug/l  
RT: 10.439 min Scan# 1437  
Delta R.T. 0.000 min  
Lab File: VN072319.D  
Acq: 04 May 2022 11:18

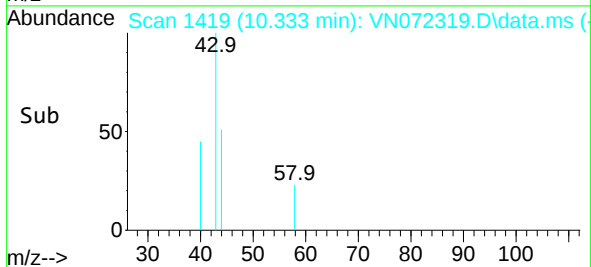
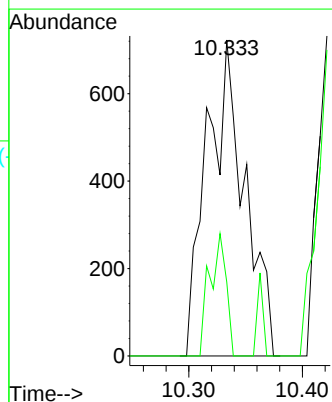
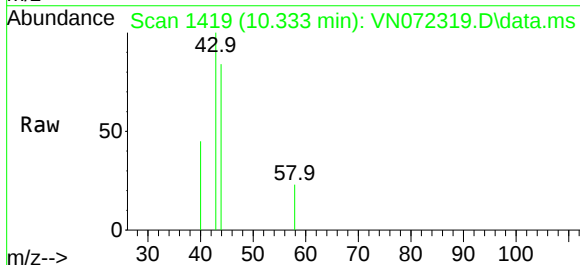
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0504MBL01

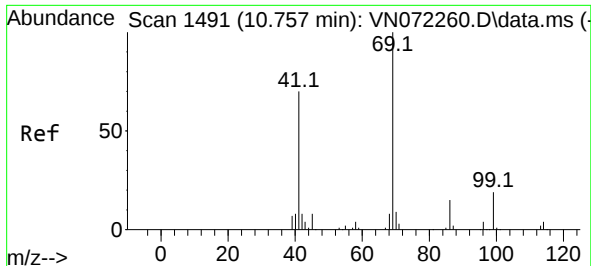
Tgt Ion: 98 Resp: 463581  
Ion Ratio Lower Upper  
98 100  
100 64.6 52.6 78.8



#51  
4-Methyl-2-Pentanone  
Concen: 0.404 ug/l  
RT: 10.333 min Scan# 1419  
Delta R.T. 0.005 min  
Lab File: VN072319.D  
Acq: 04 May 2022 11:18

Tgt Ion: 43 Resp: 1672  
Ion Ratio Lower Upper  
43 100  
58 17.0 34.1 51.1#

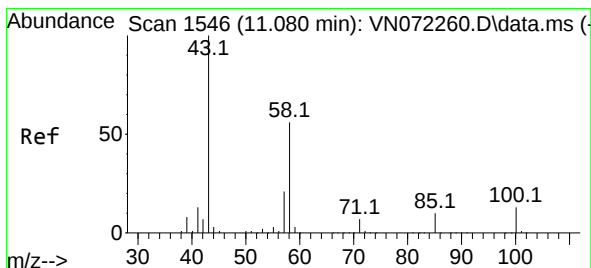
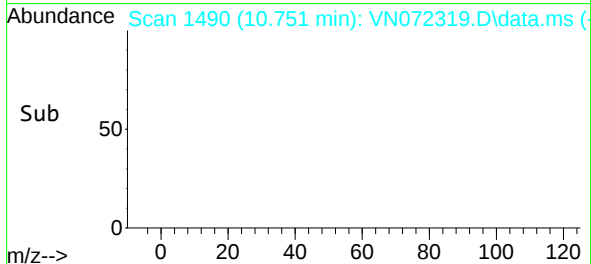
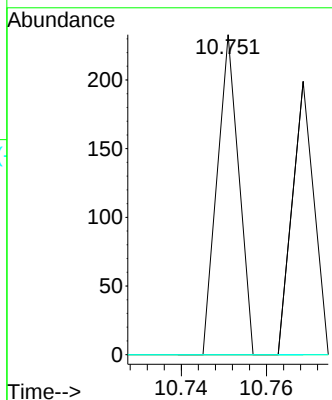
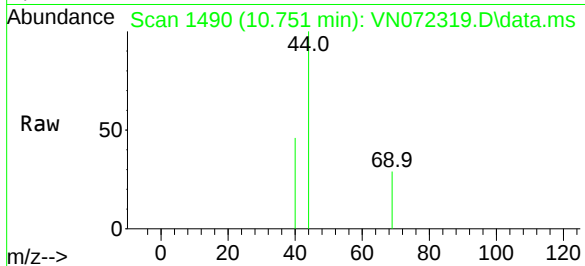




#56  
Ethyl methacrylate  
Concen: 2.383 ug/l  
RT: 10.751 min Scan# 1490  
Delta R.T. -0.006 min  
Lab File: VN072319.D  
Acq: 04 May 2022 11:18

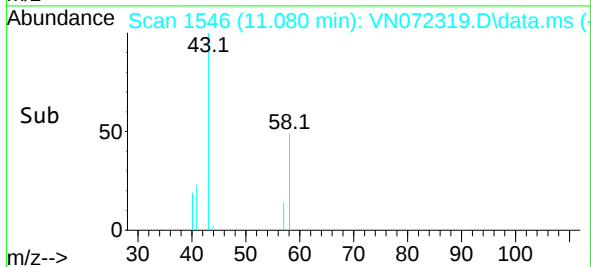
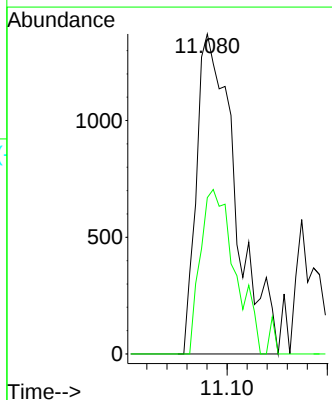
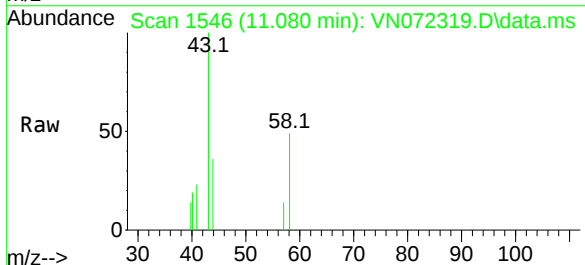
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0504MBL01

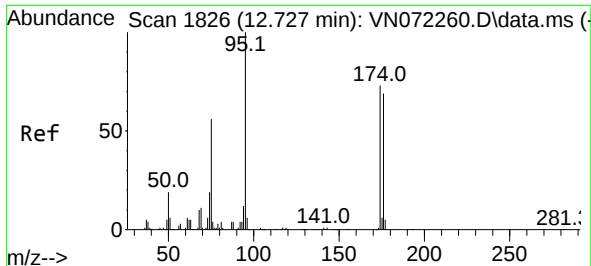
Tgt Ion: 69 Resp: 82  
Ion Ratio Lower Upper  
69 100  
41 0.0 47.8 71.6#  
39 0.0 27.3 40.9#



#59  
2-Hexanone  
Concen: 1.261 ug/l  
RT: 11.080 min Scan# 1546  
Delta R.T. -0.001 min  
Lab File: VN072319.D  
Acq: 04 May 2022 11:18

Tgt Ion: 43 Resp: 3681  
Ion Ratio Lower Upper  
43 100  
58 45.9 29.7 89.1

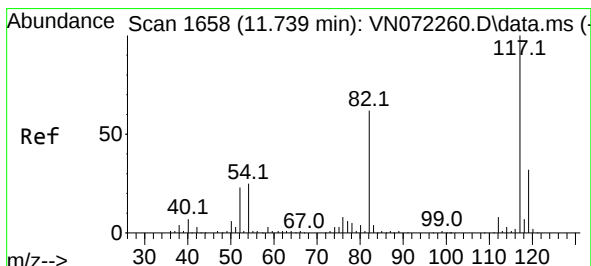
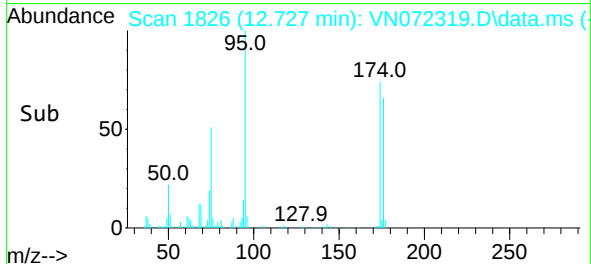
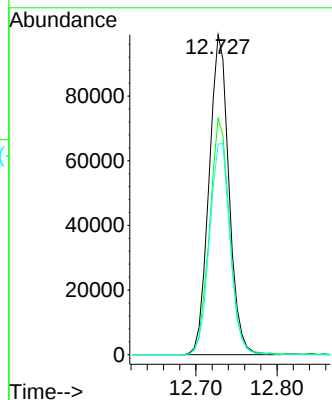
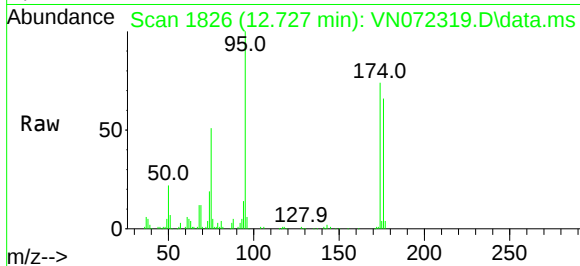




#62  
4-Bromofluorobenzene  
Concen: 56.673 ug/l  
RT: 12.727 min Scan# 1826  
Delta R.T. 0.000 min  
Lab File: VN072319.D  
Acq: 04 May 2022 11:18

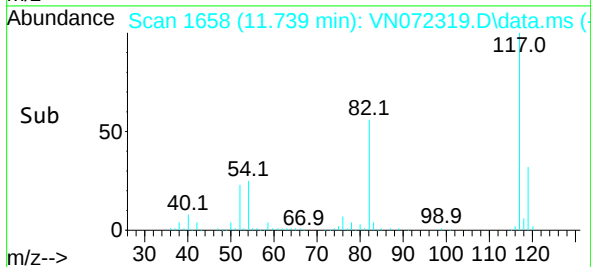
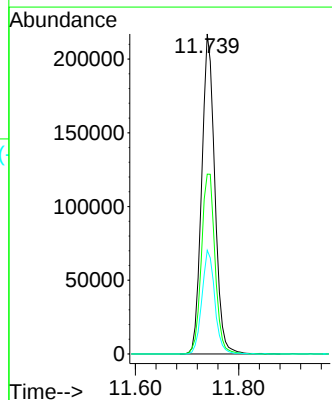
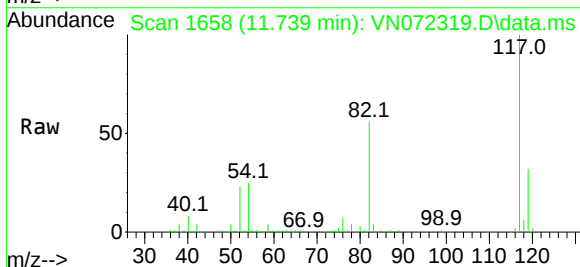
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0504MBL01

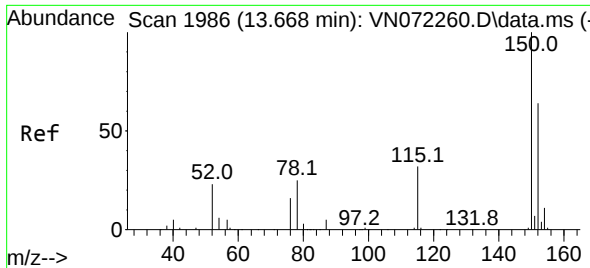
Tgt Ion: 95 Resp: 167898  
Ion Ratio Lower Upper  
95 100  
174 74.3 0.0 167.6  
176 69.4 0.0 163.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.739 min Scan# 1658  
Delta R.T. 0.000 min  
Lab File: VN072319.D  
Acq: 04 May 2022 11:18

Tgt Ion: 117 Resp: 382192  
Ion Ratio Lower Upper  
117 100  
82 56.2 44.2 66.2  
119 32.4 25.4 38.0

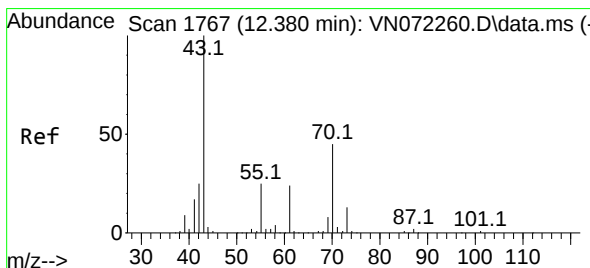
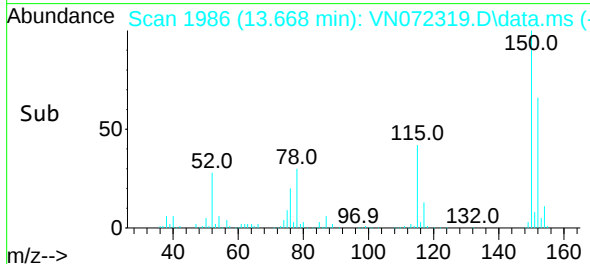
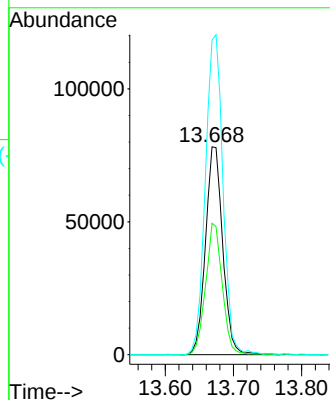
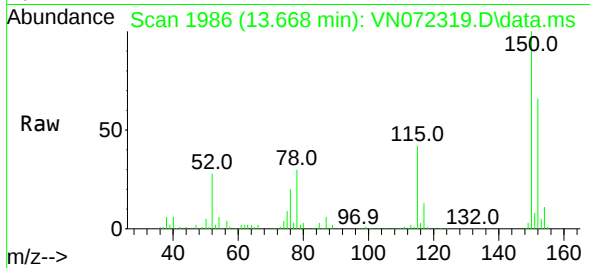




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.668 min Scan# 1986  
Delta R.T. -0.001 min  
Lab File: VN072319.D  
Acq: 04 May 2022 11:18

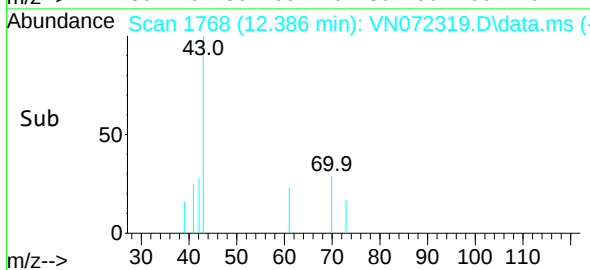
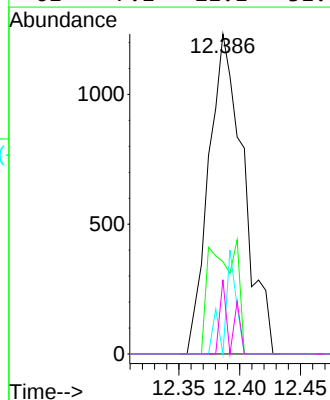
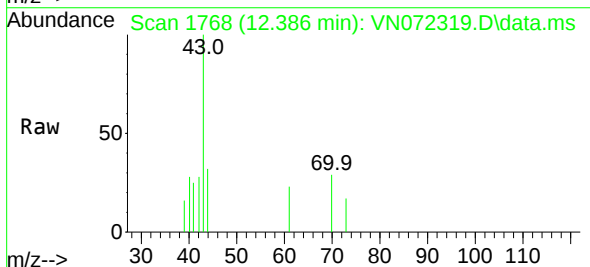
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0504MBL01

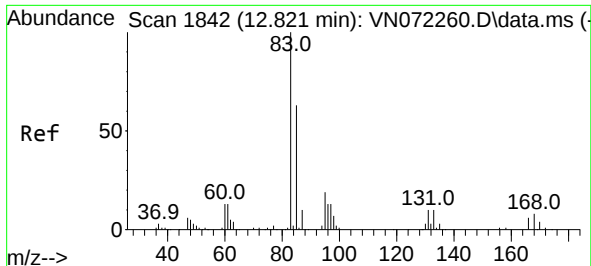
Tgt Ion:152 Resp: 137738  
Ion Ratio Lower Upper  
152 100  
115 60.9 28.9 86.7  
150 156.4 0.0 356.2



#74  
N-ethyl acetate  
Concen: 0.538 ug/l  
RT: 12.386 min Scan# 1768  
Delta R.T. 0.006 min  
Lab File: VN072319.D  
Acq: 04 May 2022 11:18

Tgt Ion: 43 Resp: 2452  
Ion Ratio Lower Upper  
43 100  
70 27.3 39.0 58.4#  
55 10.8 21.1 31.7#  
61 7.1 21.1 31.7#

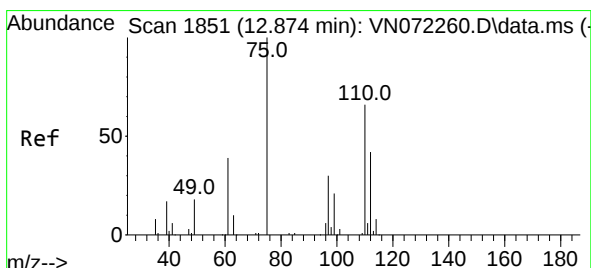
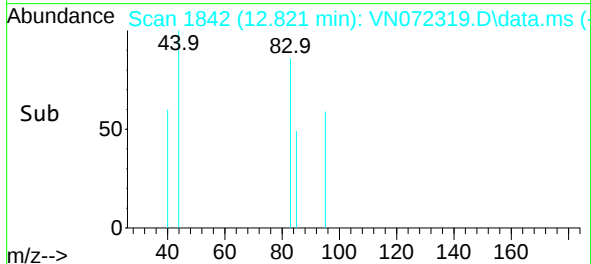
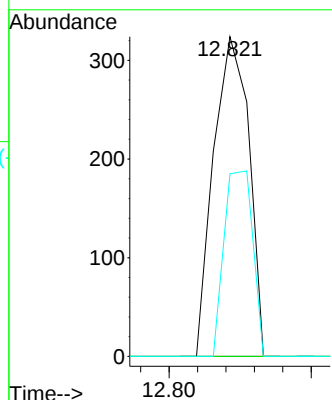
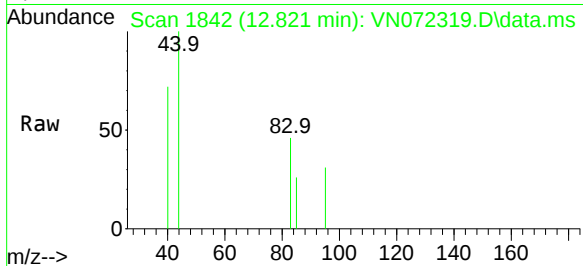




#75  
1,1,2,2-Tetrachloroethane  
Concen: Below Cal  
RT: 12.821 min Scan# 1842  
Delta R.T. -0.001 min  
Lab File: VN072319.D  
Acq: 04 May 2022 11:18

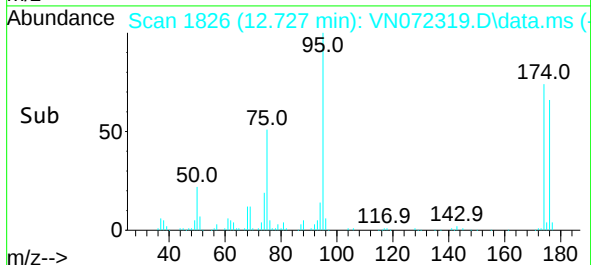
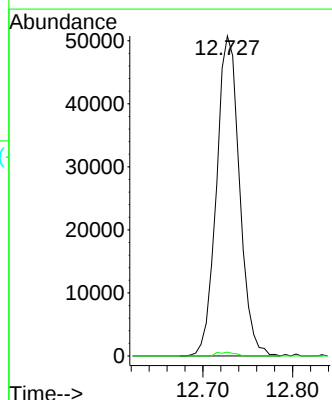
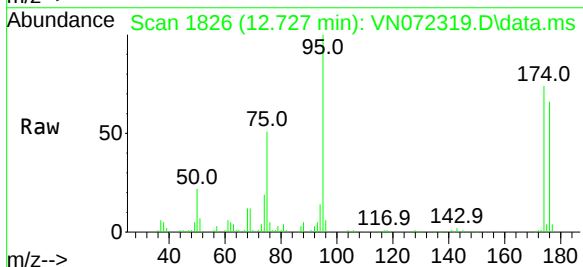
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0504MBL01

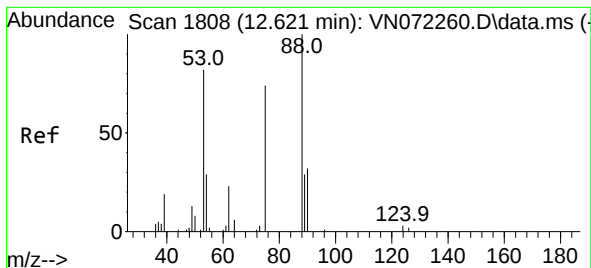
Tgt Ion: 83 Resp: 279  
Ion Ratio Lower Upper  
83 100  
131 0.0 5.3 15.9#  
85 47.3 32.3 96.9



#76  
1,2,3-Trichloropropane  
Concen: 29.265 ug/l  
RT: 12.727 min Scan# 1826  
Delta R.T. -0.147 min  
Lab File: VN072319.D  
Acq: 04 May 2022 11:18

Tgt Ion: 75 Resp: 90527  
Ion Ratio Lower Upper  
75 100  
77 0.9 98.5 295.5#

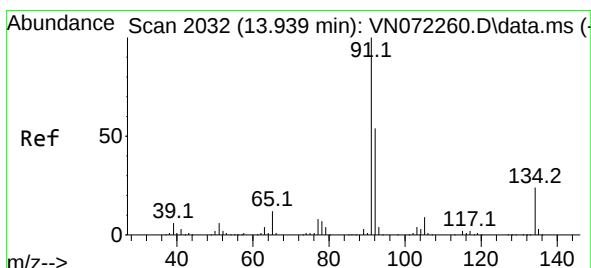
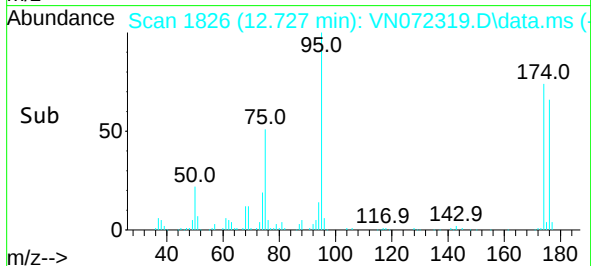
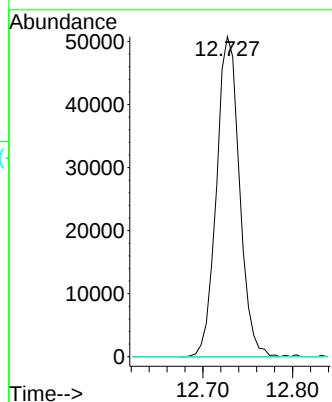
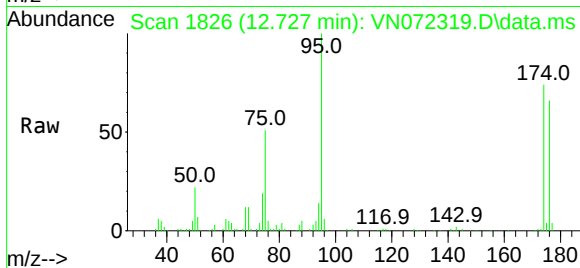




#81  
trans-1,4-Dichloro-2-butene  
Concen: 75.994 ug/l  
RT: 12.727 min Scan# 1808  
Delta R.T. 0.105 min  
Lab File: VN072319.D  
Acq: 04 May 2022 11:18

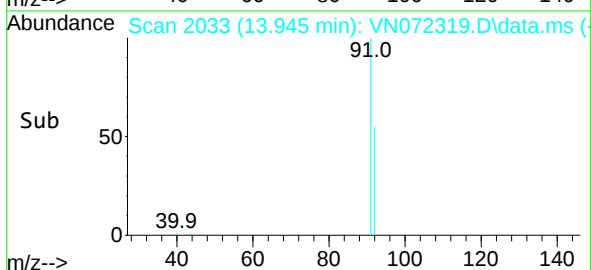
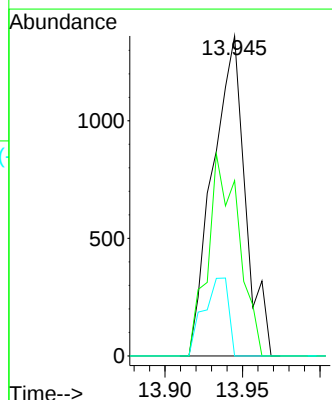
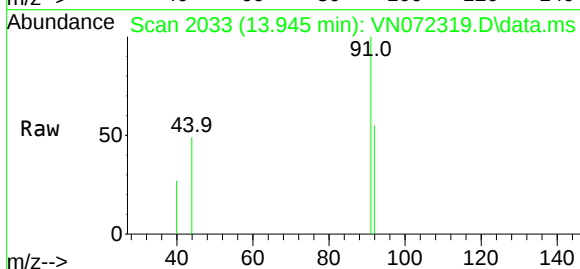
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0504MBL01

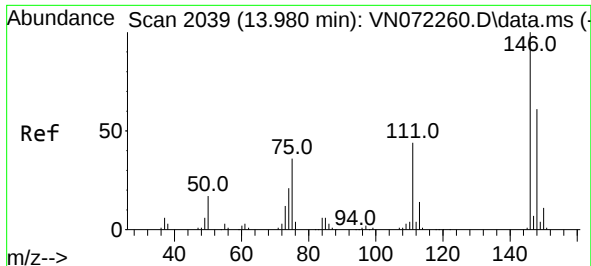
Tgt Ion: 75 Resp: 90527  
Ion Ratio Lower Upper  
75 100  
53 0.0 78.0 117.0#  
89 0.0 37.2 55.8#



#89  
n-Butylbenzene  
Concen: 0.286 ug/l  
RT: 13.945 min Scan# 2033  
Delta R.T. 0.006 min  
Lab File: VN072319.D  
Acq: 04 May 2022 11:18

Tgt Ion: 91 Resp: 1984  
Ion Ratio Lower Upper  
91 100  
92 60.0 26.9 80.7  
134 18.5 13.6 40.8

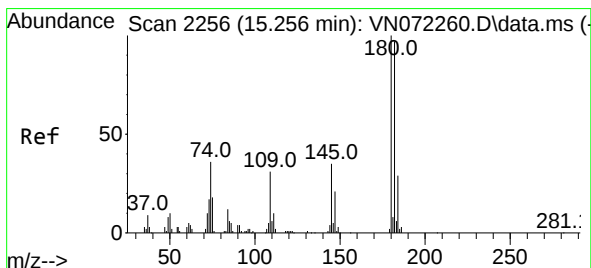
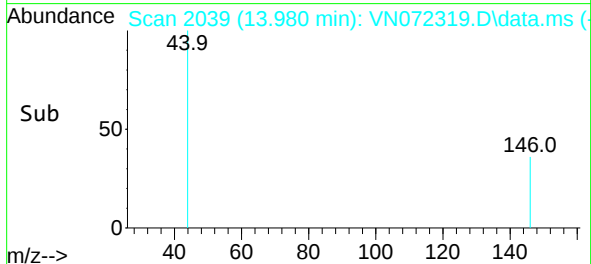
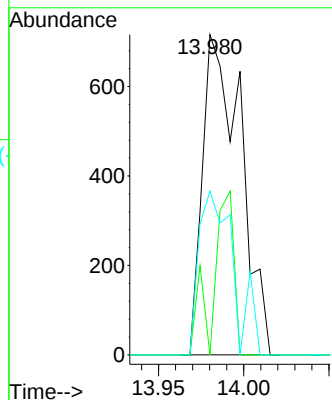
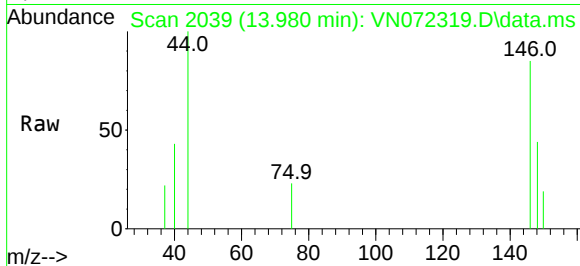




#91  
1,2-Dichlorobenzene  
Concen: 0.243 ug/l  
RT: 13.980 min Scan# 2039  
Delta R.T. -0.006 min  
Lab File: VN072319.D  
Acq: 04 May 2022 11:18

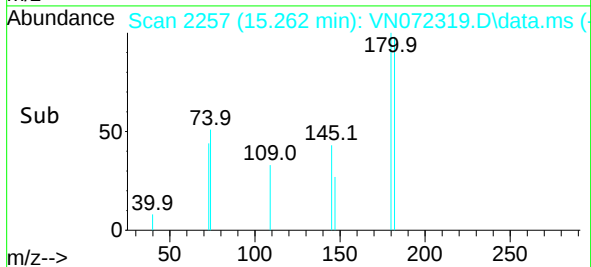
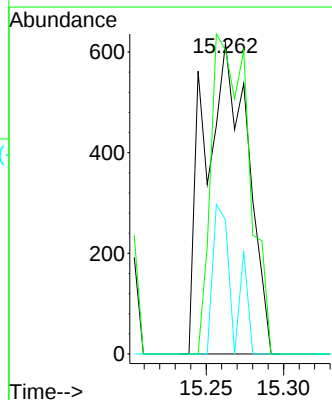
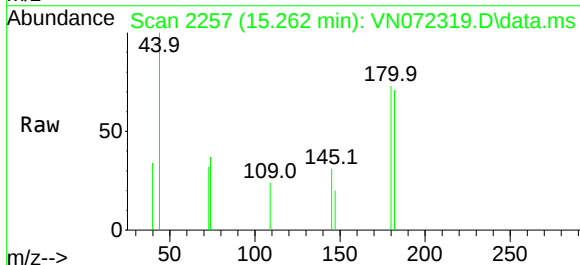
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0504MBL01

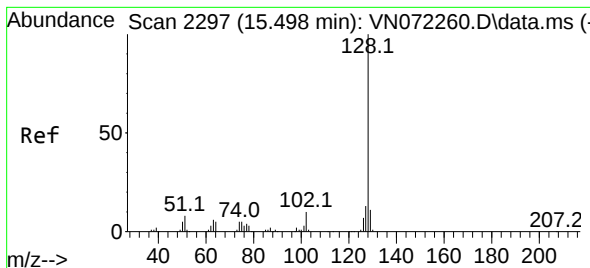
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:146 | Resp: | 1117        |
| Ion         | Ratio | Lower Upper |
| 146         | 100   |             |
| 111         | 28.0  | 20.9 62.8   |
| 148         | 45.9  | 32.1 96.3   |



#93  
1,2,4-Trichlorobenzene  
Concen: 2.960 ug/l  
RT: 15.262 min Scan# 2257  
Delta R.T. 0.005 min  
Lab File: VN072319.D  
Acq: 04 May 2022 11:18

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:180 | Resp: | 1205        |
| Ion         | Ratio | Lower Upper |
| 180         | 100   |             |
| 182         | 88.6  | 47.5 142.5  |
| 145         | 22.5  | 14.5 43.5   |





#95

Naphthalene

Concen: 4.951 ug/l

RT: 15.509 min Scan# 21

Delta R.T. 0.011 min

Lab File: VN072319.D

Acq: 04 May 2022 11:18

Instrument :

MSVOA\_N

ClientSampleId :

VN0504MBL01

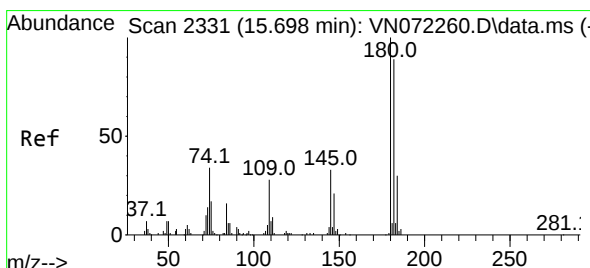
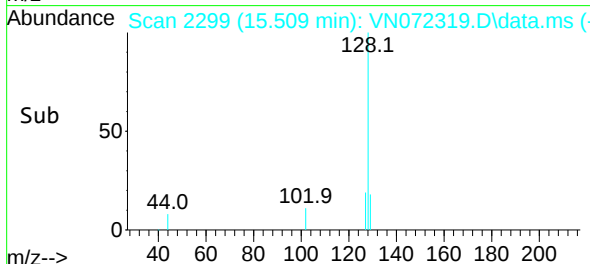
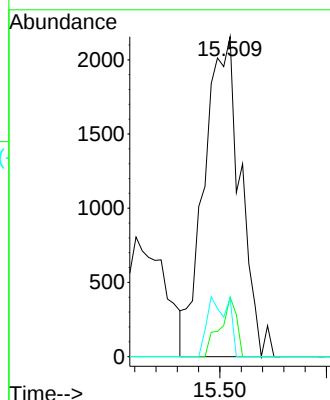
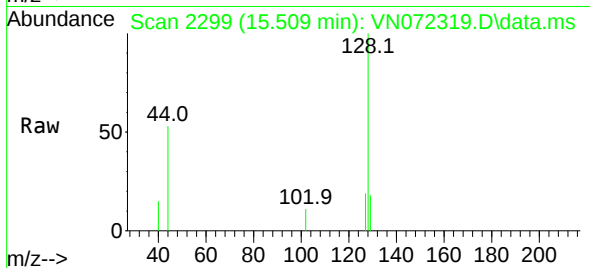
Tgt Ion:128 Resp: 5083

Ion Ratio Lower Upper

128 100

127 8.5 10.3 15.5#

129 10.9 8.6 13.0



#96

1,2,3-Trichlorobenzene

Concen: 3.299 ug/l

RT: 15.692 min Scan# 2330

Delta R.T. -0.000 min

Lab File: VN072319.D

Acq: 04 May 2022 11:18

Tgt Ion:180 Resp: 1398

Ion Ratio Lower Upper

180 100

182 82.0 47.8 143.3

145 18.5 15.5 46.5

