

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN110722\  
 Data File : VN075190.D  
 Acq On : 07 Nov 2022 16:09  
 Operator : JC\MD  
 Sample : PB148848ZHE#02  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB148848ZHE#02

Quant Time: Nov 08 01:10:55 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N102622W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 27 09:48:49 2022  
 Response via : Initial Calibration

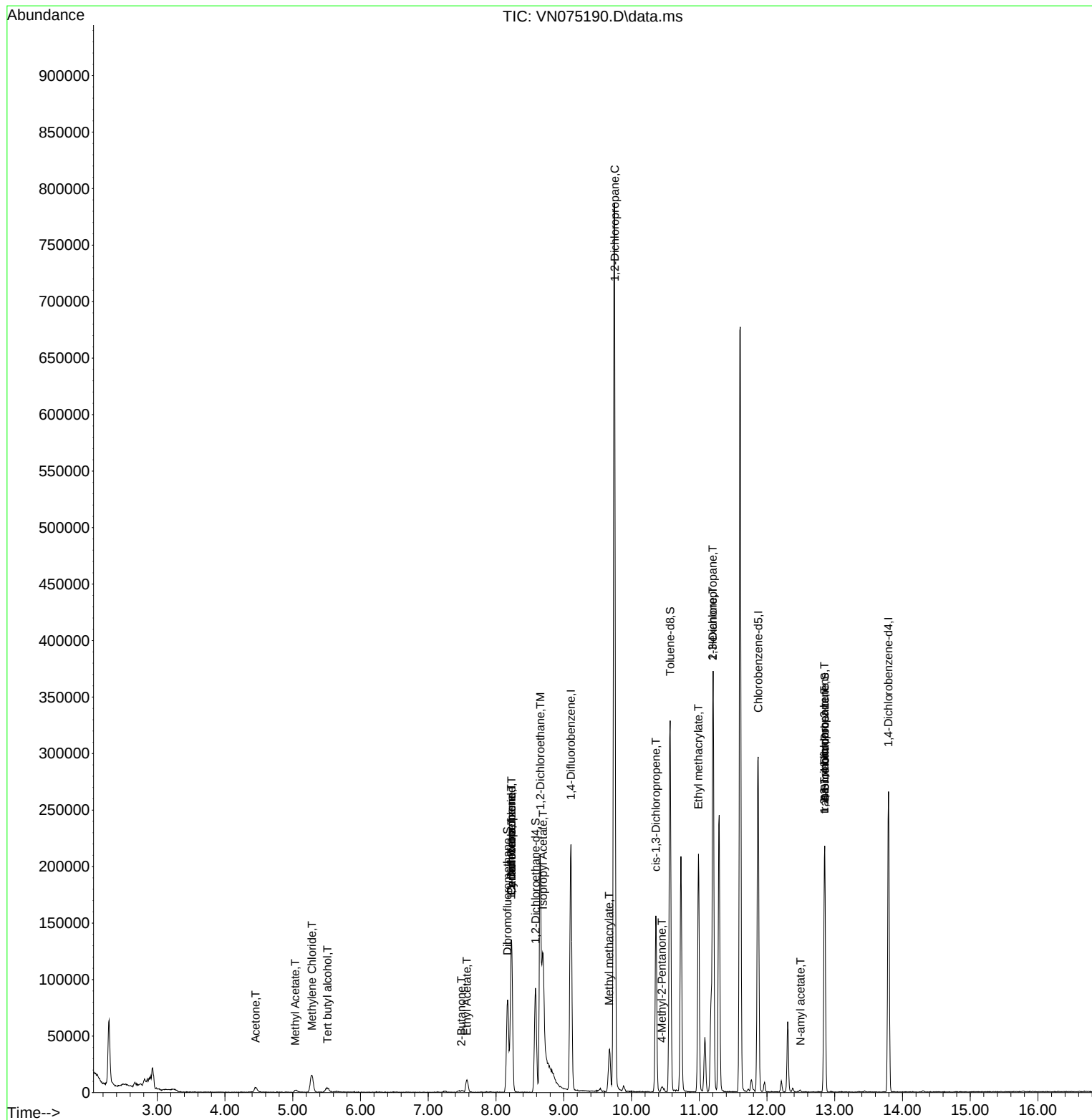
| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 8.230          | 168  | 94564               | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.106          | 114  | 191459              | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.871         | 117  | 176009              | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794         | 152  | 69443               | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.583          | 65   | 74606               | 58.554    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = 117.100% |           |        |          |
| 35) Dibromofluoromethane      | 8.171          | 113  | 59392               | 52.842    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 105.680% |           |        |          |
| 50) Toluene-d8                | 10.571         | 98   | 230755              | 52.917    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = 105.840% |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.853         | 95   | 75732               | 49.439    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = 98.880%  |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      |                     |           |        |          |
|                               |                |      |                     |           | Qvalue |          |
| 5) Bromomethane               | 2.912          | 94   | 240                 | Below Cal | #      | 5        |
| 11) Tert butyl alcohol        | 5.512          | 59   | 2486                | 8.367     | ug/l # | 72       |
| 16) Acetone                   | 4.453          | 43   | 8733                | 16.187    | ug/l   | 99       |
| 18) Methyl Acetate            | 5.036          | 43   | 3964                | 2.249     | ug/l   | 98       |
| 20) Methylene Chloride        | 5.283          | 84   | 13535               | 11.252    | ug/l   | 89       |
| 25) 2-Butanone                | 7.489          | 43   | 1492                | 1.758     | ug/l # | 71       |
| 31) Cyclohexane               | 8.230          | 56   | 2530                | 1.335     | ug/l # | 23       |
| 36) 1,1-Dichloropropene       | 8.224          | 75   | 8409                | 4.833     | ug/l # | 50       |
| 37) Ethyl Acetate             | 7.571          | 43   | 17534               | 9.188     | ug/l   | 96       |
| 38) Carbon Tetrachloride      | 8.230          | 117  | 11135               | 5.817     | ug/l # | 17       |
| 42) 1,2-Dichloroethane        | 8.653          | 62   | 492                 | 0.254     | ug/l # | 75       |
| 43) Isopropyl Acetate         | 8.694          | 43   | 170343              | 57.547    | ug/l # | 73       |
| 45) 1,2-Dichloropropane       | 9.753          | 63   | 895                 | 0.706     | ug/l # | 42       |
| 48) Methyl methacrylate       | 9.671          | 41   | 2505                | 1.845     | ug/l # | 32       |
| 51) 4-Methyl-2-Pentanone      | 10.447         | 43   | 5691                | 2.979     | ug/l # | 48       |
| 54) cis-1,3-Dichloropropene   | 10.359         | 75   | 29641               | 13.841    | ug/l # | 62       |
| 56) Ethyl methacrylate        | 10.988         | 69   | 723                 | 0.336     | ug/l # | 1        |
| 57) 1,3-Dichloropropane       | 11.200         | 76   | 4144                | 1.762     | ug/l # | 42       |
| 59) 2-Hexanone                | 11.200         | 43   | 40546               | 27.968    | ug/l # | 57       |
| 71) Bromoform                 | 12.853         | 173  | 677                 | 0.649     | ug/l # | 1        |
| 74) N-amyl acetate            | 12.494         | 43   | 677                 | 0.328     | ug/l # | 38       |
| 76) 1,2,3-Trichloropropane    | 12.847         | 75   | 41514               | 28.155    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.847         | 75   | 41514               | 72.275    | ug/l # | 10       |
| -----                         |                |      |                     |           |        |          |

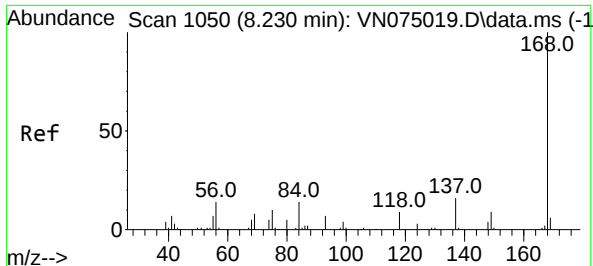
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_N  
ClientSampleId :  
PB148848ZHE#02

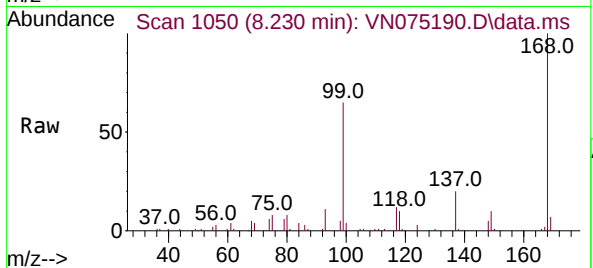
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N102622W.M  
Quant Title : SW846 8260  
QLast Update : Thu Oct 27 09:48:49 2022  
Response via : Initial Calibration



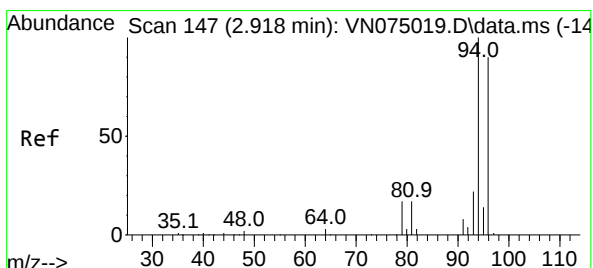
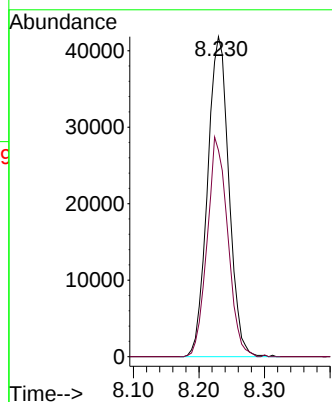
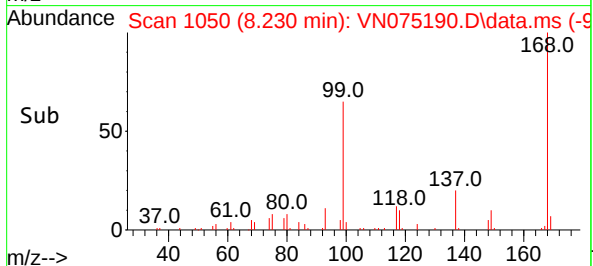


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.230 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VN075190.D  
Acq: 07 Nov 2022 16:09

Instrument :  
MSVOA\_N  
ClientSampleId :  
PB148848ZHE#02

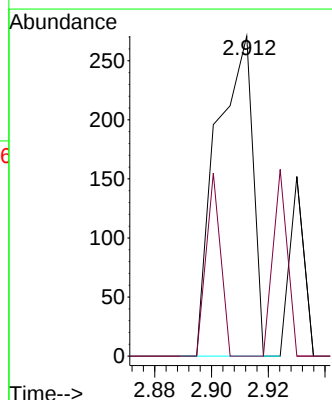
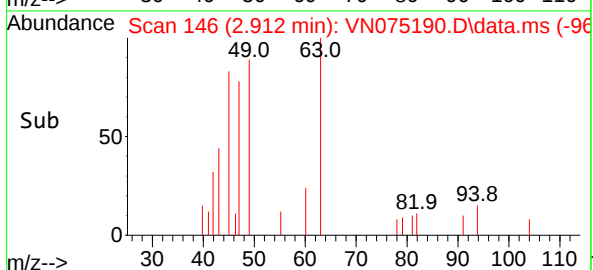
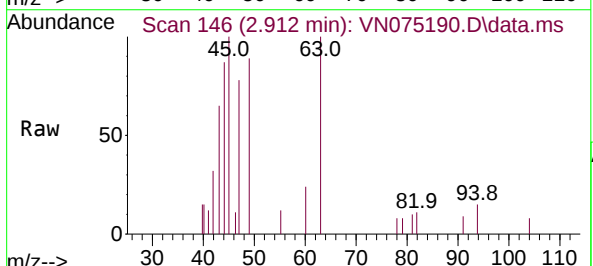


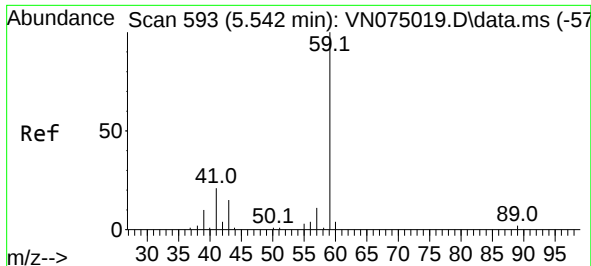
Tgt Ion:168 Resp: 94564  
Ion Ratio Lower Upper  
168 100  
99 64.5 51.6 77.4



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.912 min Scan# 146  
Delta R.T. -0.006 min  
Lab File: VN075190.D  
Acq: 07 Nov 2022 16:09

Tgt Ion: 94 Resp: 240  
Ion Ratio Lower Upper  
94 100  
96 0.0 71.8 107.6#

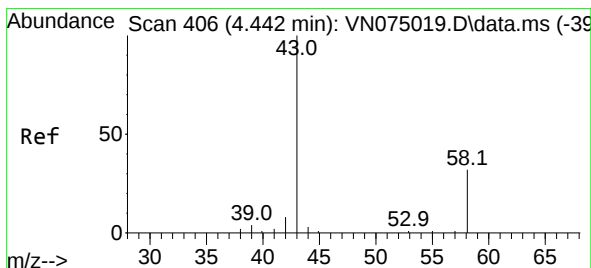
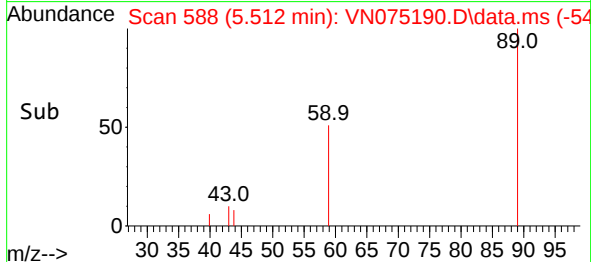
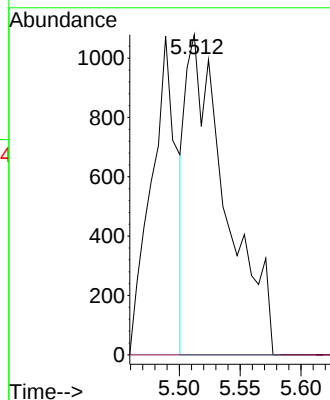
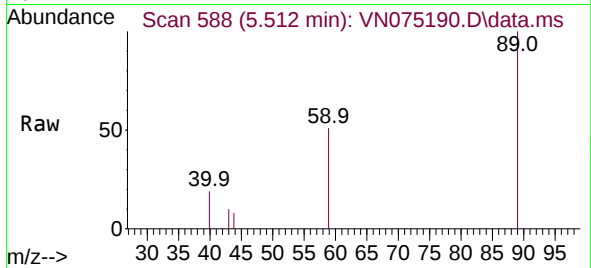




#11  
Tert butyl alcohol  
Concen: 8.367 ug/l  
RT: 5.512 min Scan# 51  
Delta R.T. -0.030 min  
Lab File: VN075190.D  
Acq: 07 Nov 2022 16:09

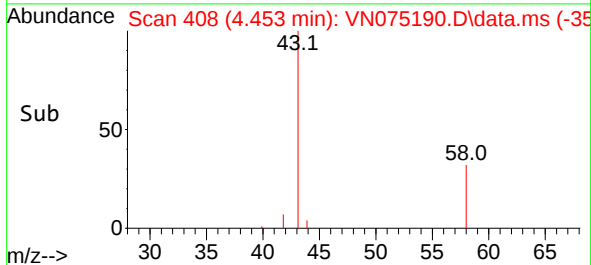
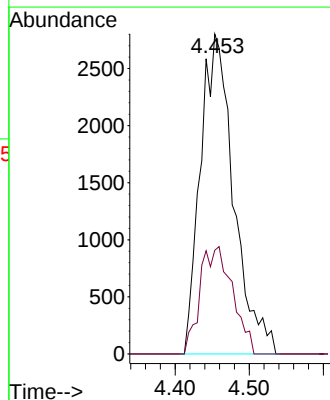
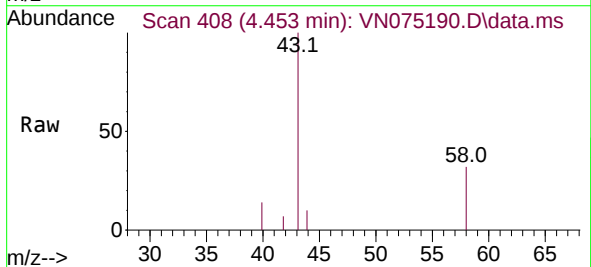
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB148848ZHE#02

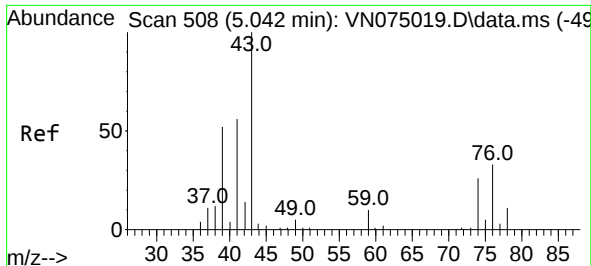
Tgt Ion: 59 Resp: 2486  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.5 12.7#



#16  
Acetone  
Concen: 16.187 ug/l  
RT: 4.453 min Scan# 408  
Delta R.T. 0.011 min  
Lab File: VN075190.D  
Acq: 07 Nov 2022 16:09

Tgt Ion: 43 Resp: 8733  
Ion Ratio Lower Upper  
43 100  
58 32.4 25.5 38.3

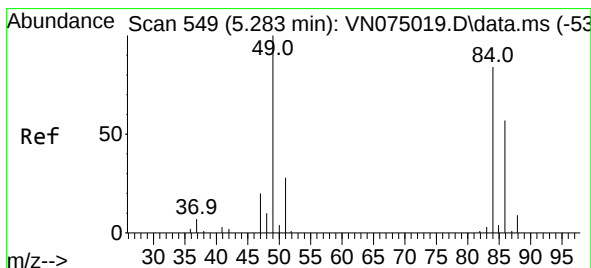
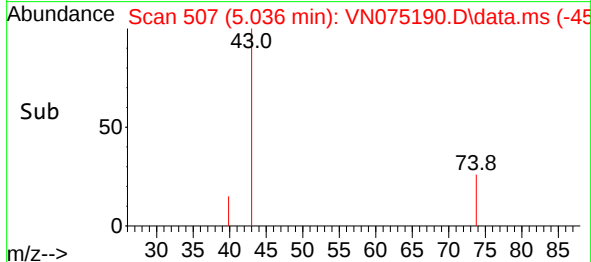
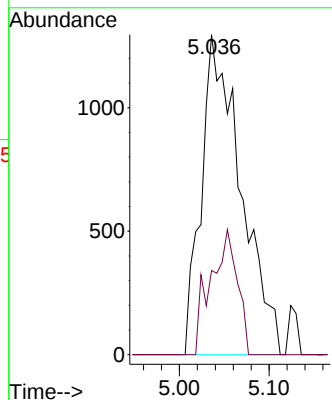
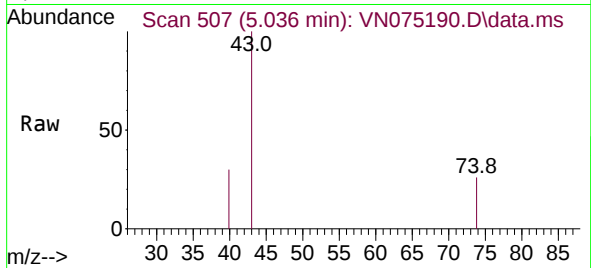




#18  
Methyl Acetate  
Concen: 2.249 ug/l  
RT: 5.036 min Scan# 507  
Delta R.T. -0.006 min  
Lab File: VN075190.D  
Acq: 07 Nov 2022 16:09

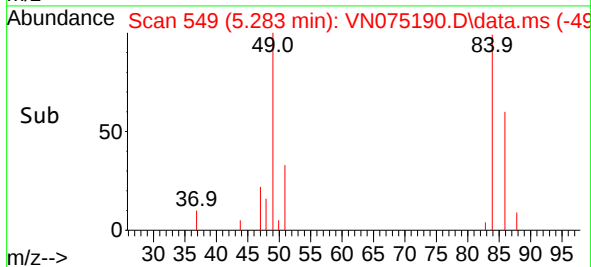
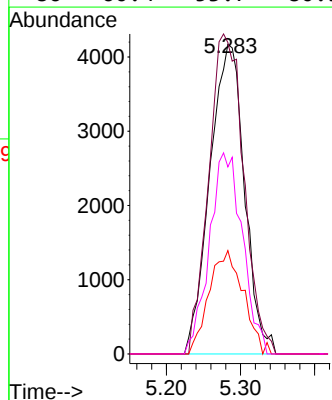
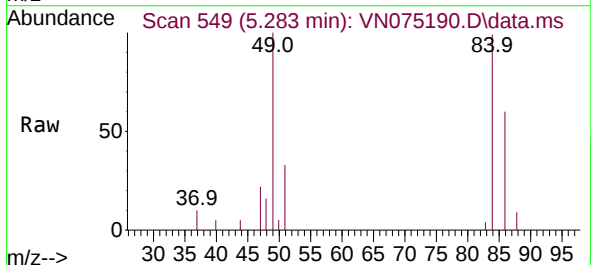
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB148848ZHE#02

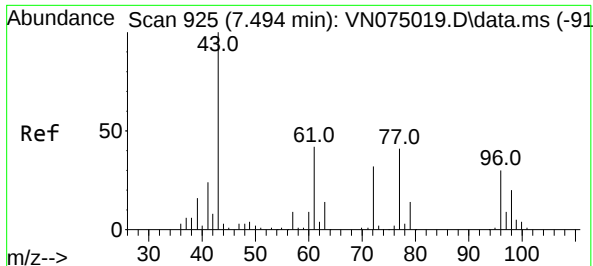
Tgt Ion: 43 Resp: 3964  
Ion Ratio Lower Upper  
43 100  
74 26.4 22.0 33.0



#20  
Methylene Chloride  
Concen: 11.252 ug/l  
RT: 5.283 min Scan# 549  
Delta R.T. -0.000 min  
Lab File: VN075190.D  
Acq: 07 Nov 2022 16:09

Tgt Ion: 84 Resp: 13535  
Ion Ratio Lower Upper  
84 100  
49 100.6 94.9 142.3  
51 33.4 26.8 40.2  
86 60.4 53.7 80.5





#25

2-Butanone

Concen: 1.758 ug/l

RT: 7.489 min Scan# 91

Delta R.T. -0.005 min

Lab File: VN075190.D

Acq: 07 Nov 2022 16:09

Instrument :

MSVOA\_N

ClientSampleId :

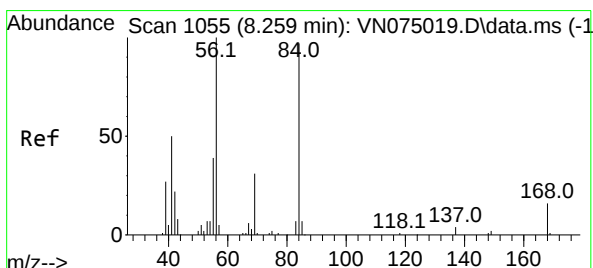
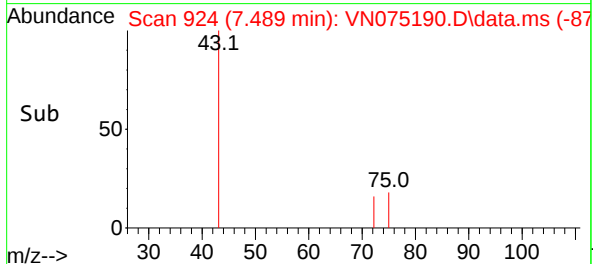
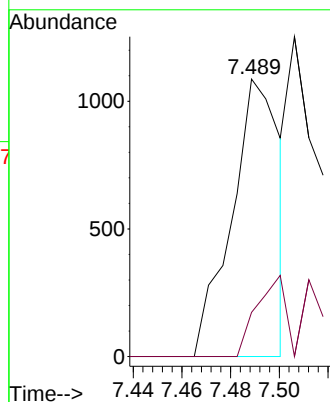
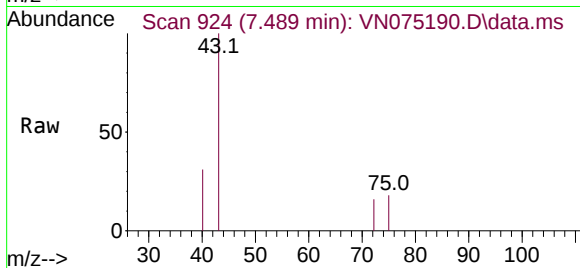
PB148848ZHE#02

Tgt Ion: 43 Resp: 1492

Ion Ratio Lower Upper

43 100

72 15.9 25.5 38.3#



#31

Cyclohexane

Concen: 1.335 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.029 min

Lab File: VN075190.D

Acq: 07 Nov 2022 16:09

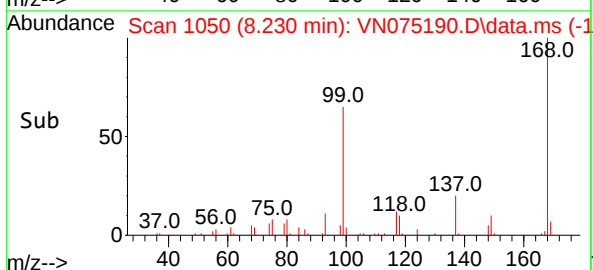
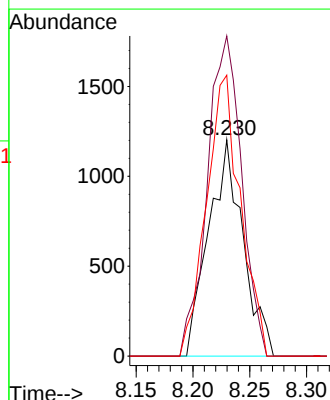
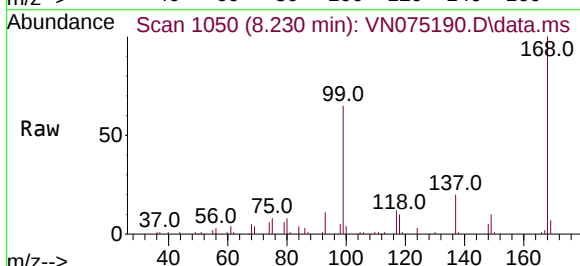
Tgt Ion: 56 Resp: 2530

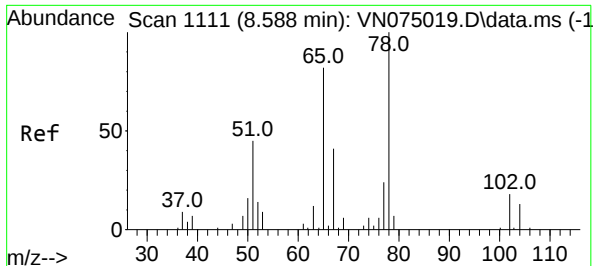
Ion Ratio Lower Upper

56 100

69 148.0 25.2 37.8#

84 129.9 77.8 116.8#





#33

1,2-Dichloroethane-d4

Concen: 58.554 ug/l

RT: 8.583 min Scan# 1111

Delta R.T. -0.005 min

Lab File: VN075190.D

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ClientSampleId :

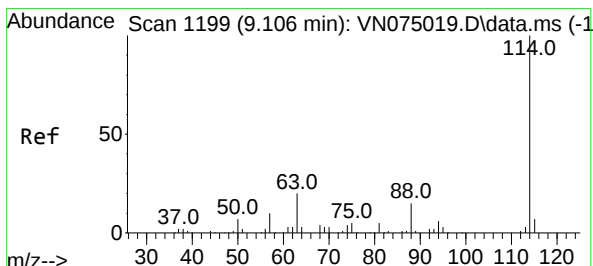
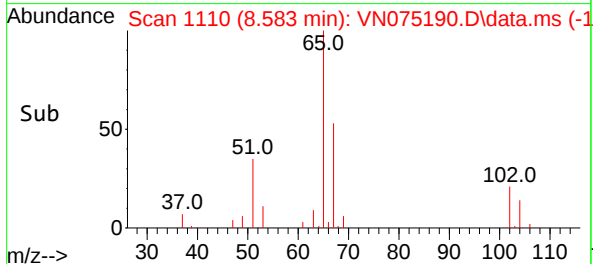
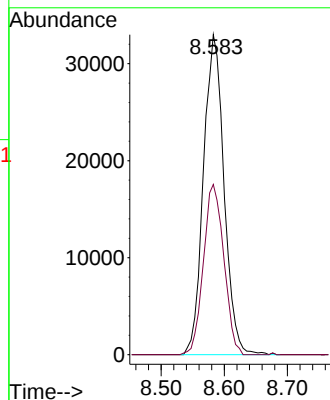
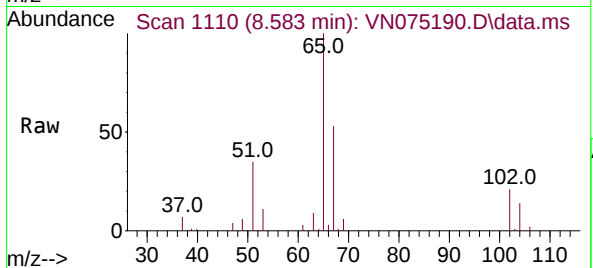
PB148848ZHE#02

Tgt Ion: 65 Resp: 74606

Ion Ratio Lower Upper

65 100

67 52.7 0.0 102.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1199

Delta R.T. 0.000 min

Lab File: VN075190.D

Acq: 07 Nov 2022 16:09

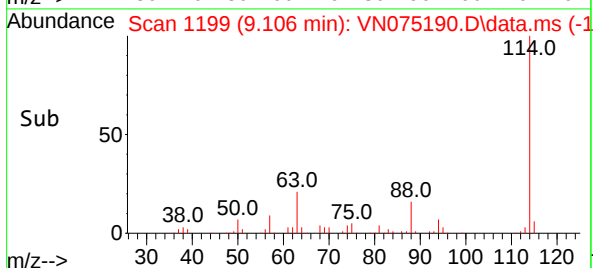
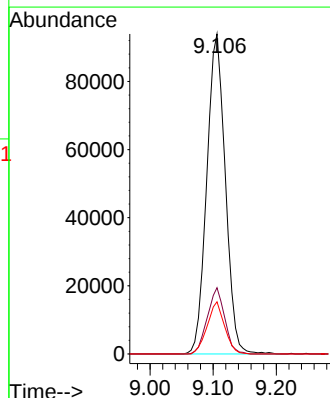
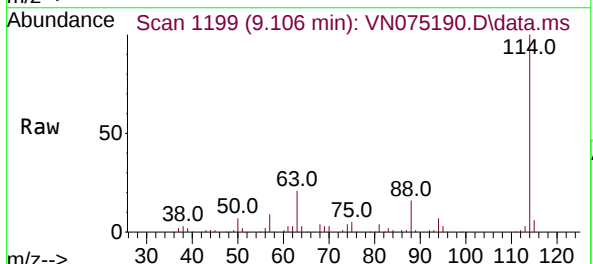
Tgt Ion: 114 Resp: 191459

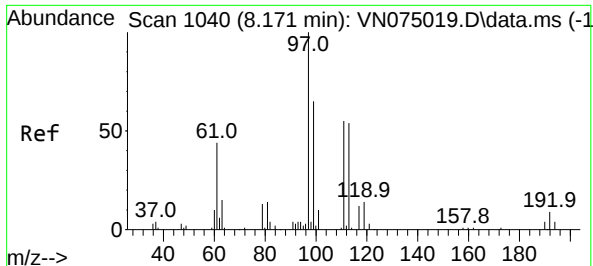
Ion Ratio Lower Upper

114 100

63 20.7 0.0 39.6

88 16.3 0.0 29.0





#35

Dibromofluoromethane

Concen: 52.842 ug/l

RT: 8.171 min Scan# 1040

Delta R.T. -0.000 min

Lab File: VN075190.D

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PB148848ZHE#02

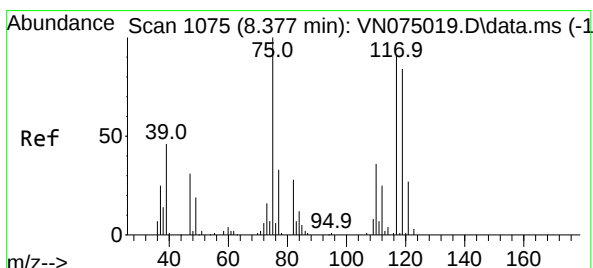
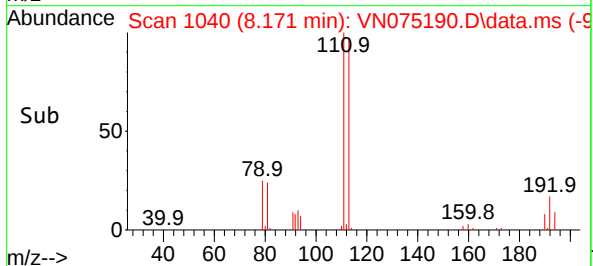
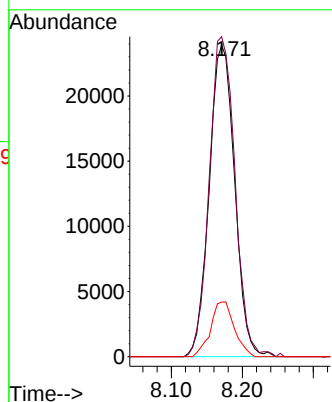
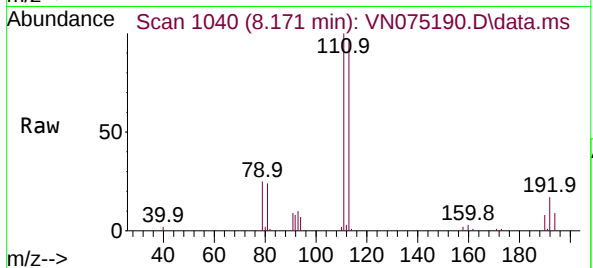
Tgt Ion:113 Resp: 59392

Ion Ratio Lower Upper

113 100

111 103.9 80.5 120.7

192 16.4 13.2 19.8



#36

1,1-Dichloropropene

Concen: 4.833 ug/l

RT: 8.224 min Scan# 1049

Delta R.T. -0.153 min

Lab File: VN075190.D

Acq: 07 Nov 2022 16:09

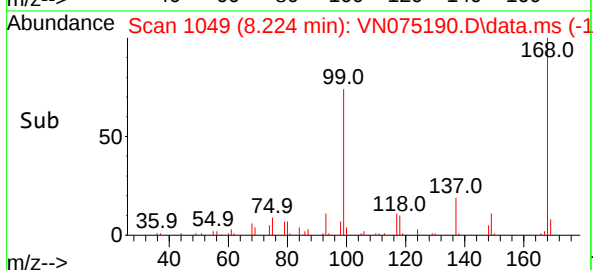
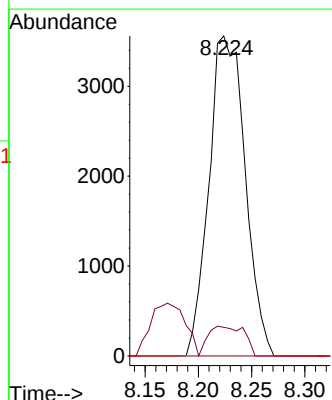
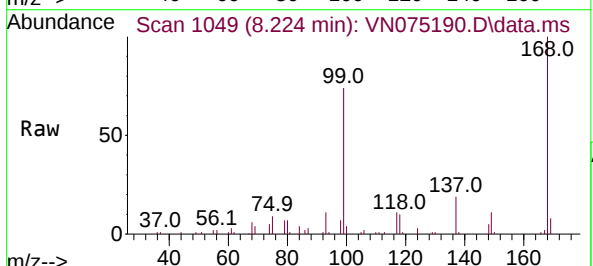
Tgt Ion: 75 Resp: 8409

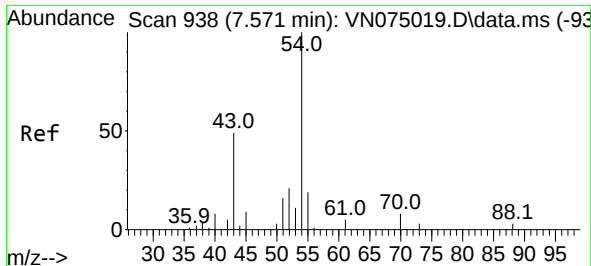
Ion Ratio Lower Upper

75 100

110 9.2 17.8 53.3#

77 0.0 24.6 37.0#





#37

Ethyl Acetate

Concen: 9.188 ug/l

RT: 7.571 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN075190.D

Acq: 07 Nov 2022 16:09

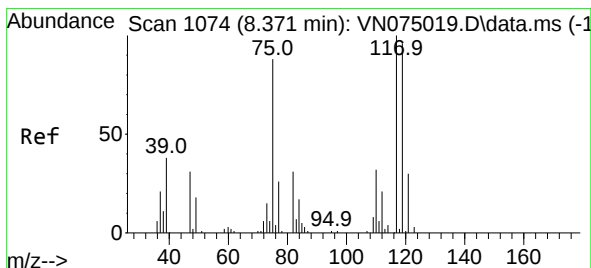
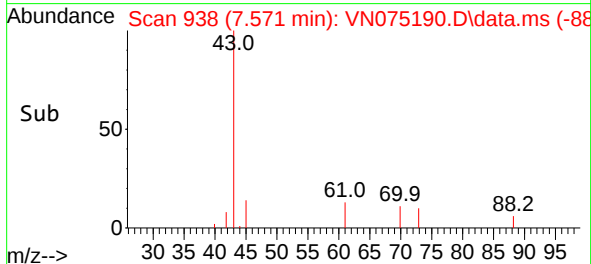
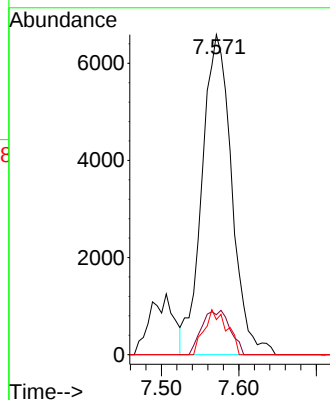
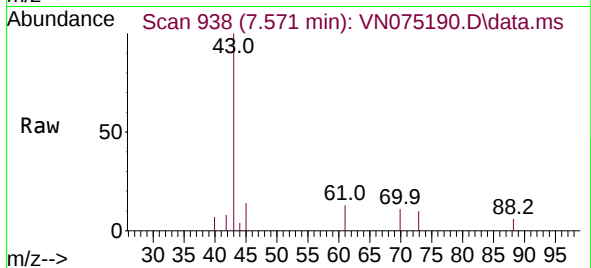
Instrument :

MSVOA\_N

ClientSampleId :

PB148848ZHE#02

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 17534 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 13.2  | 12.2  | 18.4  |
| 70       | 10.7  | 9.4   | 14.2  |



#38

Carbon Tetrachloride

Concen: 5.817 ug/l

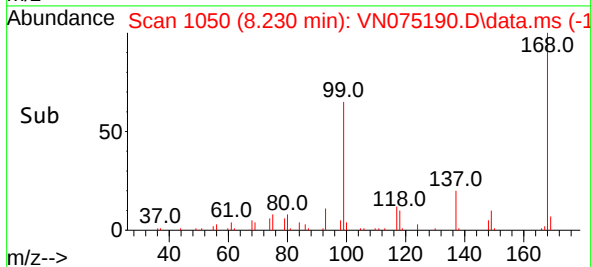
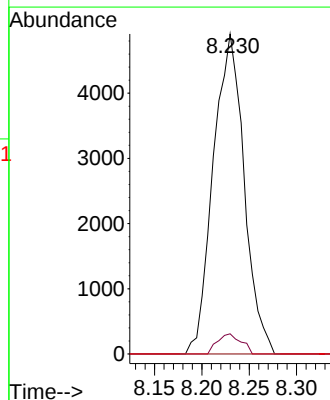
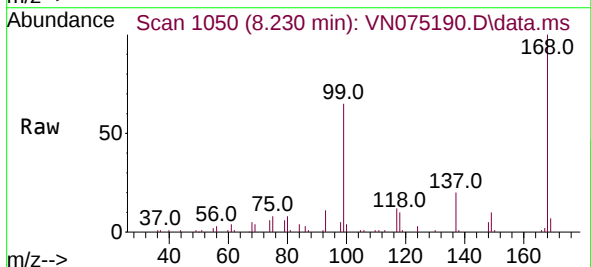
RT: 8.230 min Scan# 1050

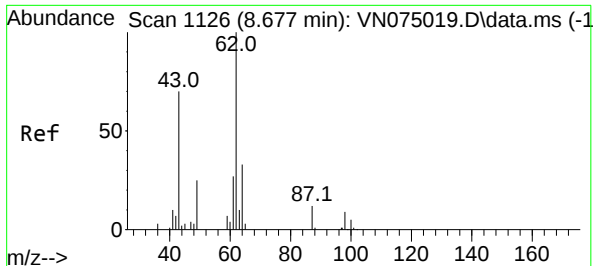
Delta R.T. -0.141 min

Lab File: VN075190.D

Acq: 07 Nov 2022 16:09

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 11135  |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 6.3   | 76.7  | 115.1# |
| 121      | 0.0   | 23.9  | 35.9#  |





#42

1,2-Dichloroethane

Concen: 0.254 ug/l

RT: 8.653 min Scan# 1122

Delta R.T. -0.024 min

Lab File: VN075190.D

Acq: 07 Nov 2022 16:09

Instrument :

MSVOA\_N

ClientSampleId :

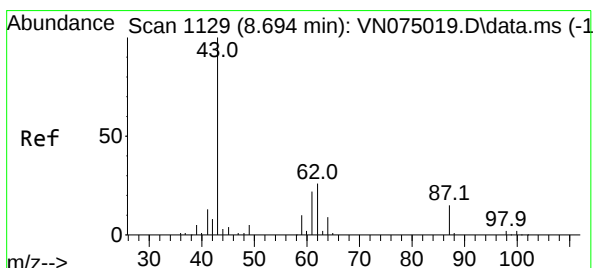
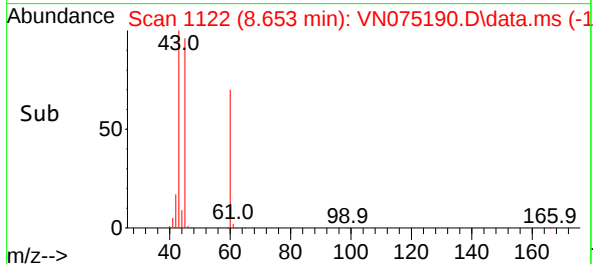
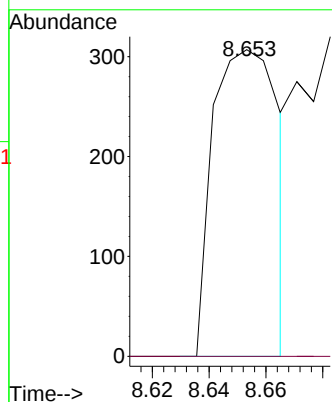
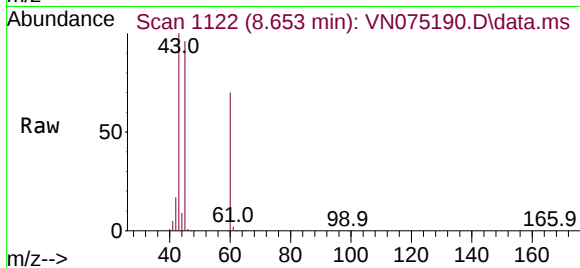
PB148848ZHE#02

Tgt Ion: 62 Resp: 492

Ion Ratio Lower Upper

62 100

98 0.0 0.0 18.2



#43

Isopropyl Acetate

Concen: 57.547 ug/l

RT: 8.694 min Scan# 1129

Delta R.T. 0.000 min

Lab File: VN075190.D

Acq: 07 Nov 2022 16:09

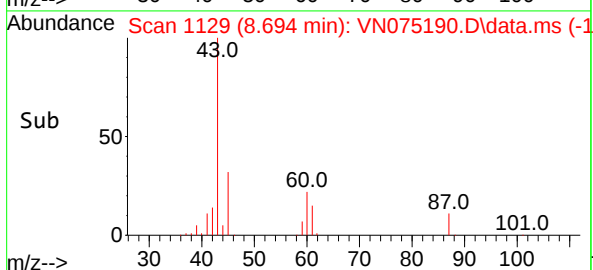
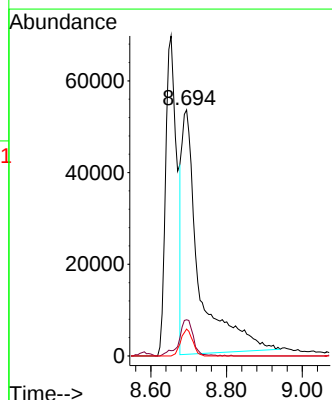
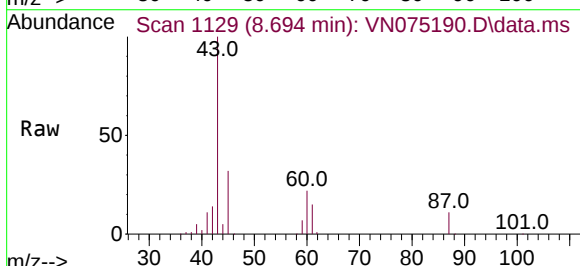
Tgt Ion: 43 Resp: 170343

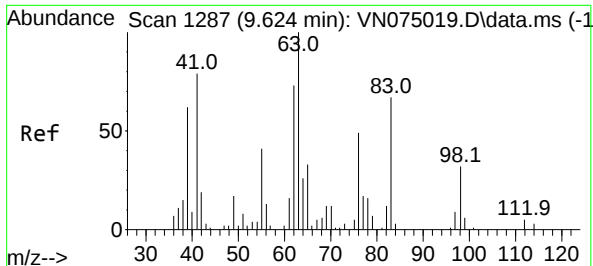
Ion Ratio Lower Upper

43 100

61 12.0 22.4 33.6#

87 7.4 12.5 18.7#





#45

1,2-Dichloropropane

Concen: 0.706 ug/l

RT: 9.753 min Scan# 11

Delta R.T. 0.129 min

Lab File: VN075190.D

Acq: 07 Nov 2022 16:09

Instrument :

MSVOA\_N

ClientSampleId :

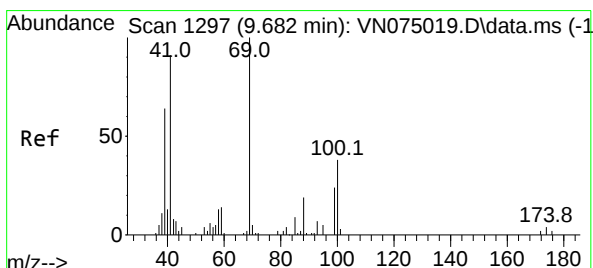
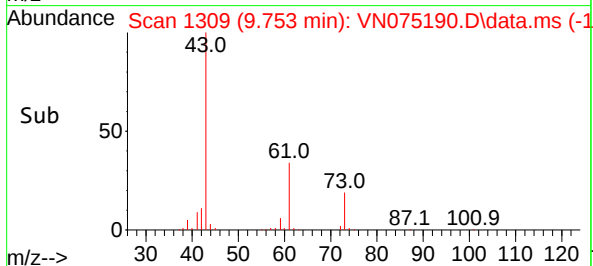
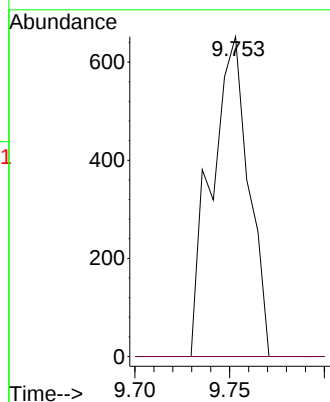
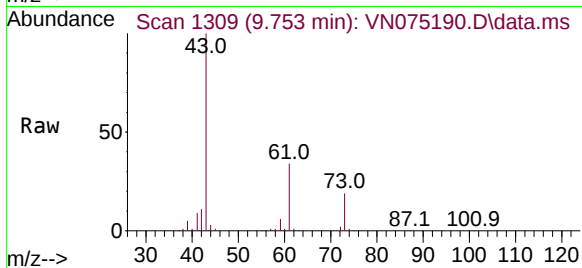
PB148848ZHE#02

Tgt Ion: 63 Resp: 895

Ion Ratio Lower Upper

63 100

65 0.0 26.1 39.1#



#48

Methyl methacrylate

Concen: 1.845 ug/l

RT: 9.671 min Scan# 1295

Delta R.T. -0.011 min

Lab File: VN075190.D

Acq: 07 Nov 2022 16:09

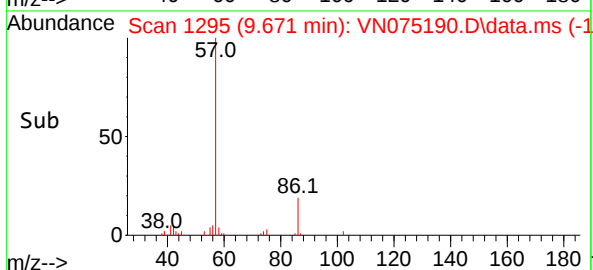
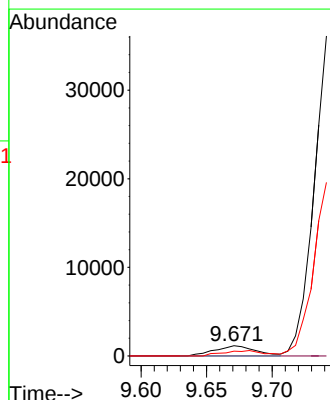
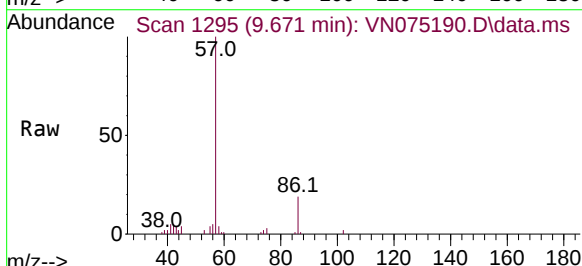
Tgt Ion: 41 Resp: 2505

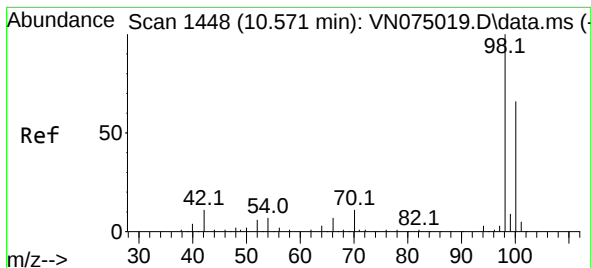
Ion Ratio Lower Upper

41 100

69 0.0 80.2 120.2#

39 52.9 56.2 84.2#





#50

Toluene-d8

Concen: 52.917 ug/l

RT: 10.571 min Scan# 1448

Delta R.T. -0.000 min

Lab File: VN075190.D

Acq: 07 Nov 2022 16:09

Instrument :

MSVOA\_N

ClientSampleId :

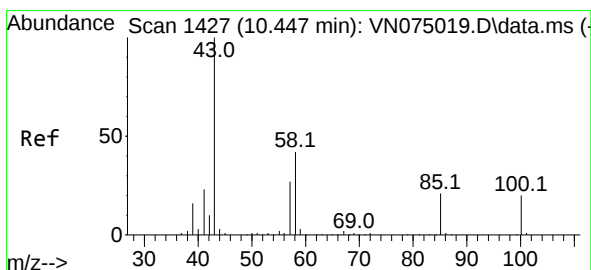
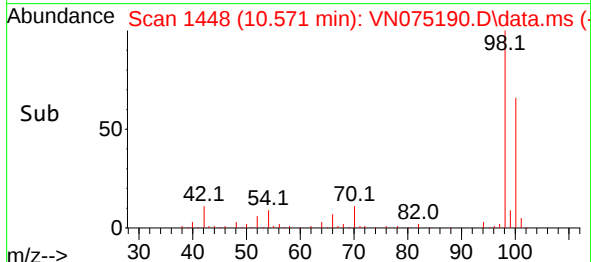
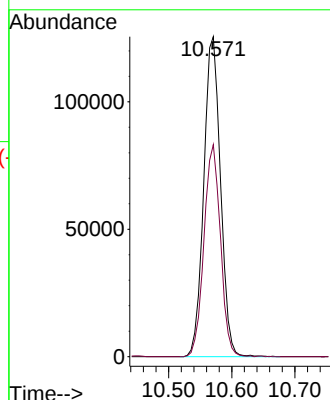
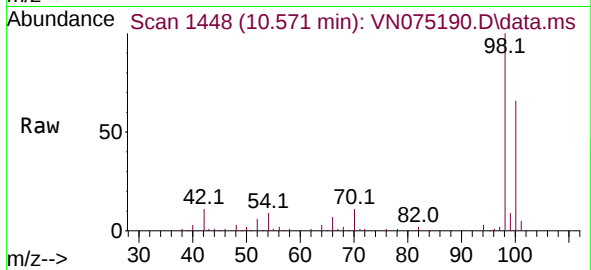
PB148848ZHE#02

Tgt Ion: 98 Resp: 230755

Ion Ratio Lower Upper

98 100

100 65.2 53.0 79.6



#51

4-Methyl-2-Pentanone

Concen: 2.979 ug/l

RT: 10.447 min Scan# 1427

Delta R.T. 0.000 min

Lab File: VN075190.D

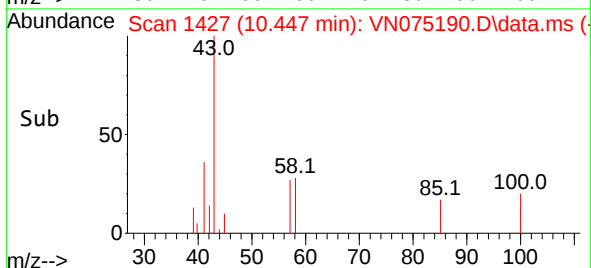
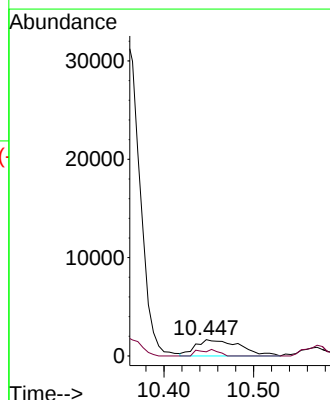
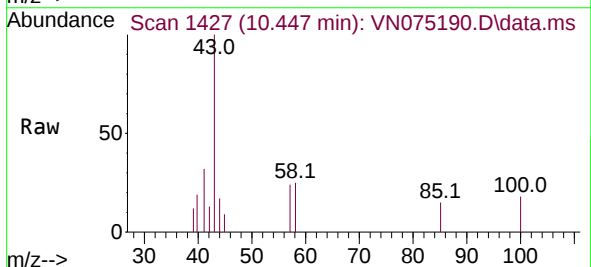
Acq: 07 Nov 2022 16:09

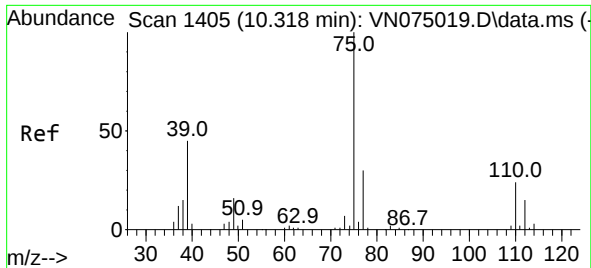
Tgt Ion: 43 Resp: 5691

Ion Ratio Lower Upper

43 100

58 9.2 33.6 50.4#

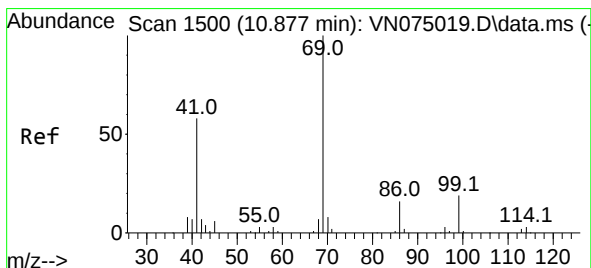
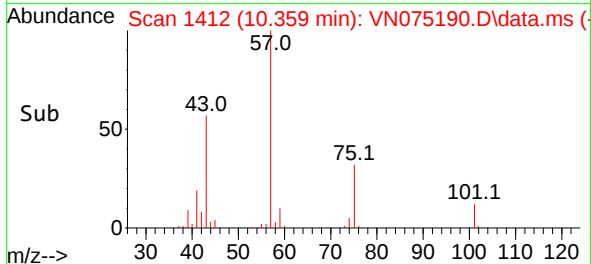
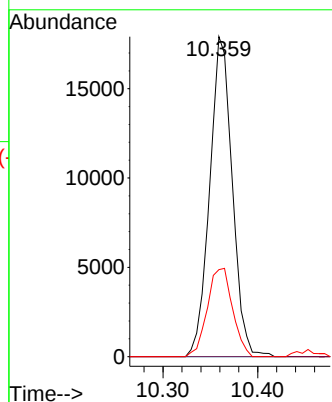
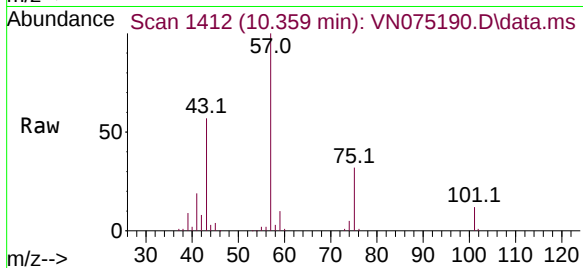




#54  
 cis-1,3-Dichloropropene  
 Concen: 13.841 ug/l  
 RT: 10.359 min Scan# 1405  
 Delta R.T. 0.041 min  
 Lab File: VN075190.D  
 Acq: 07 Nov 2022 16:09

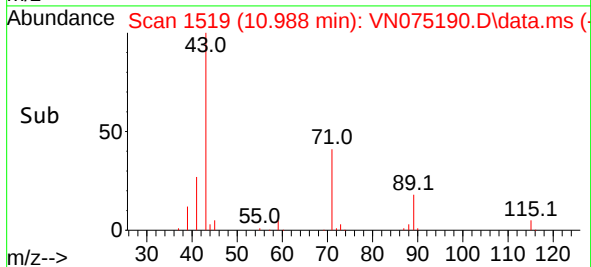
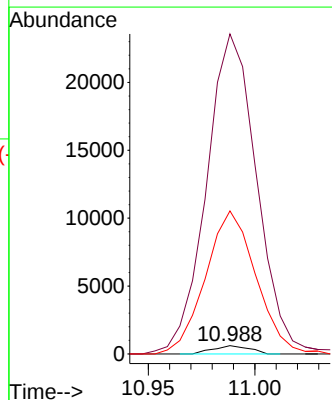
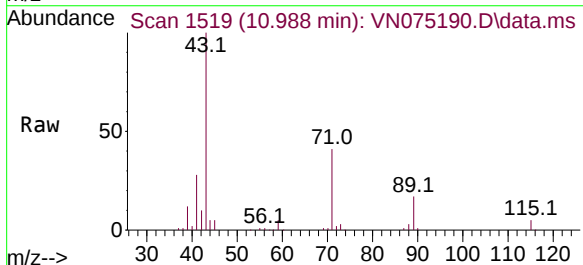
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB148848ZHE#02

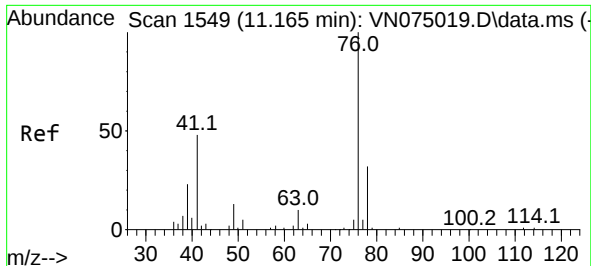
Tgt Ion: 75 Resp: 29641  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 23.7 35.5#  
 39 27.2 35.8 53.6#



#56  
 Ethyl methacrylate  
 Concen: 0.336 ug/l  
 RT: 10.988 min Scan# 1519  
 Delta R.T. 0.111 min  
 Lab File: VN075190.D  
 Acq: 07 Nov 2022 16:09

Tgt Ion: 69 Resp: 723  
 Ion Ratio Lower Upper  
 69 100  
 41 5391.3 45.6 68.4#  
 39 2409.8 28.5 42.7#





#57

1,3-Dichloropropane

Concen: 1.762 ug/l

RT: 11.200 min Scan# 1555

Delta R.T. 0.035 min

Lab File: VN075190.D

Acq: 07 Nov 2022 16:09

Instrument :

MSVOA\_N

ClientSampleId :

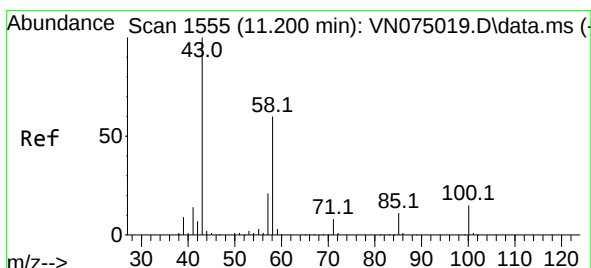
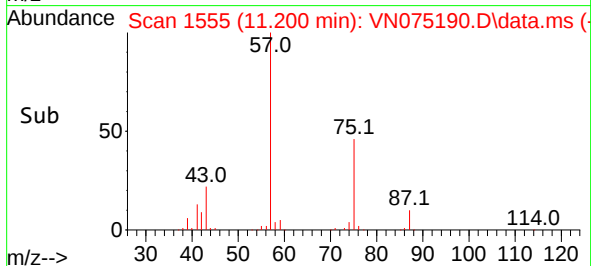
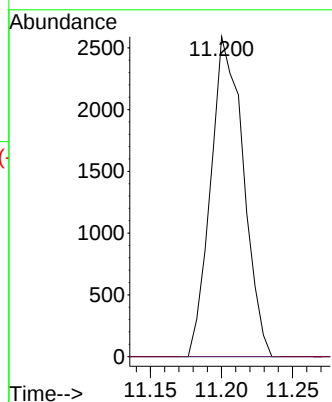
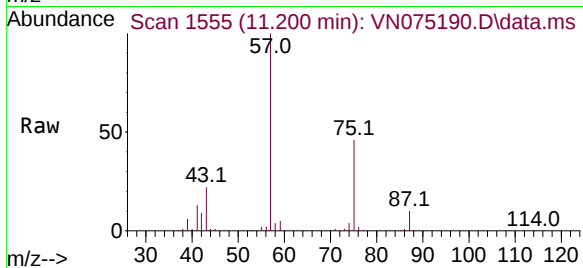
PB148848ZHE#02

Tgt Ion: 76 Resp: 4144

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#



#59

2-Hexanone

Concen: 27.968 ug/l

RT: 11.200 min Scan# 1555

Delta R.T. 0.000 min

Lab File: VN075190.D

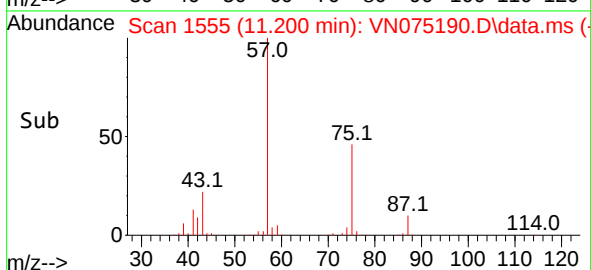
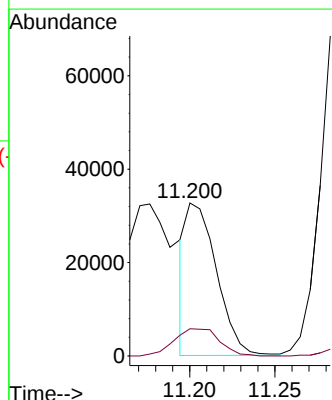
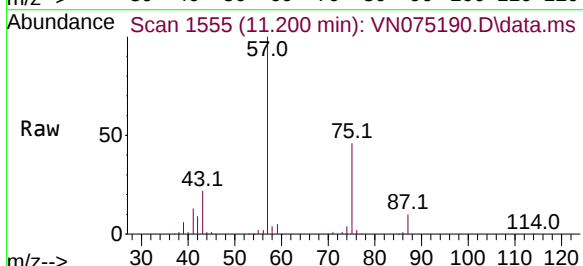
Acq: 07 Nov 2022 16:09

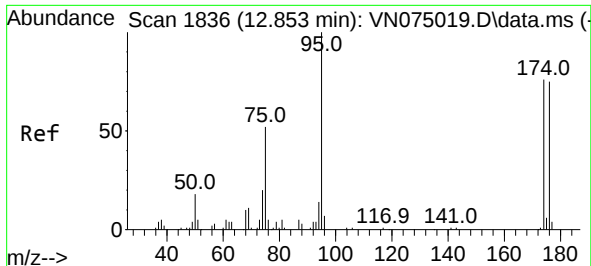
Tgt Ion: 43 Resp: 40546

Ion Ratio Lower Upper

43 100

58 26.7 29.6 88.8#

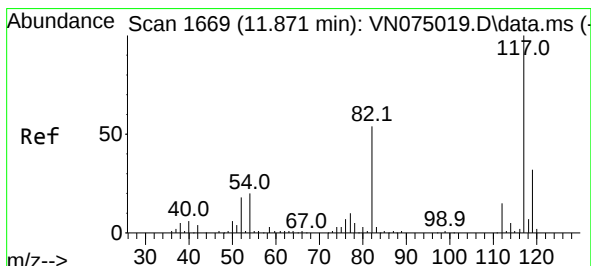
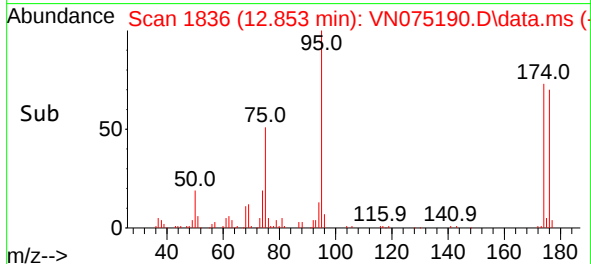
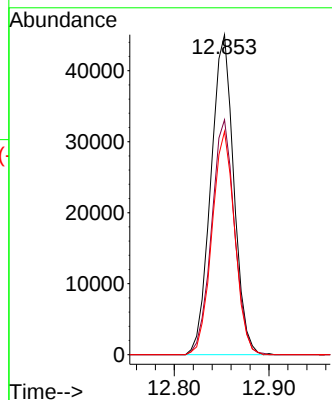
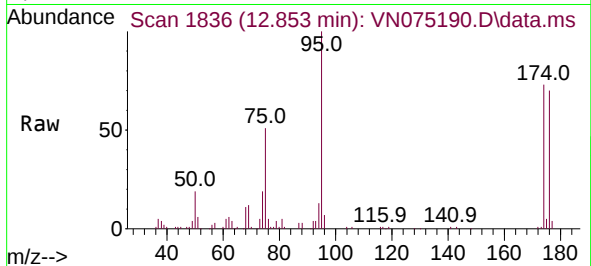




#62  
4-Bromofluorobenzene  
Concen: 49.439 ug/l  
RT: 12.853 min Scan# 1836  
Delta R.T. -0.000 min  
Lab File: VN075190.D  
Acq: 07 Nov 2022 16:09

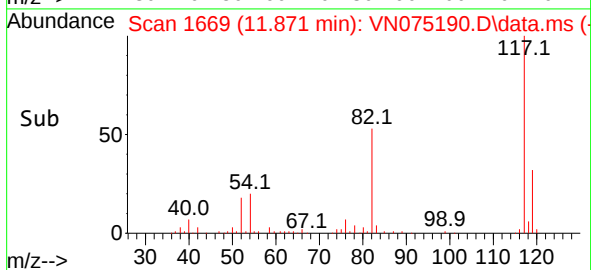
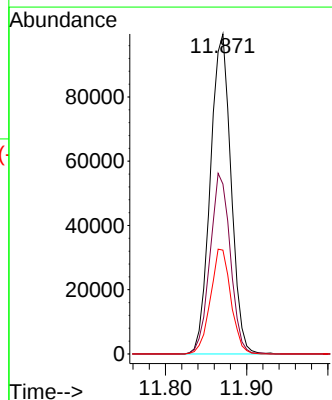
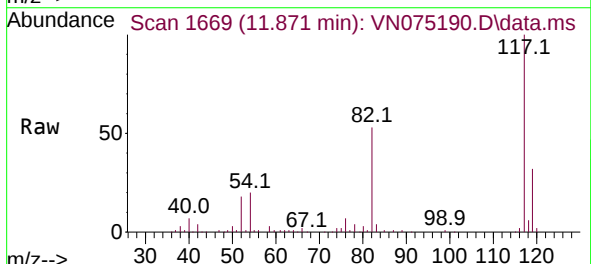
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB148848ZHE#02

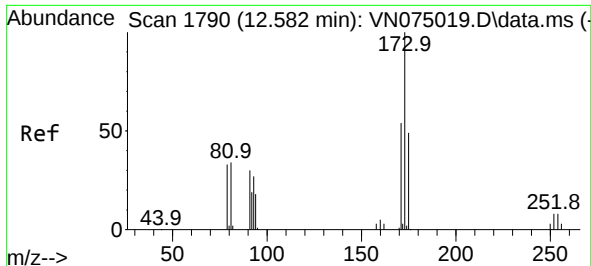
Tgt Ion: 95 Resp: 75732  
Ion Ratio Lower Upper  
95 100  
174 73.6 0.0 147.4  
176 69.1 0.0 142.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.871 min Scan# 1669  
Delta R.T. -0.000 min  
Lab File: VN075190.D  
Acq: 07 Nov 2022 16:09

Tgt Ion: 117 Resp: 176009  
Ion Ratio Lower Upper  
117 100  
82 53.1 43.1 64.7  
119 32.5 25.5 38.3

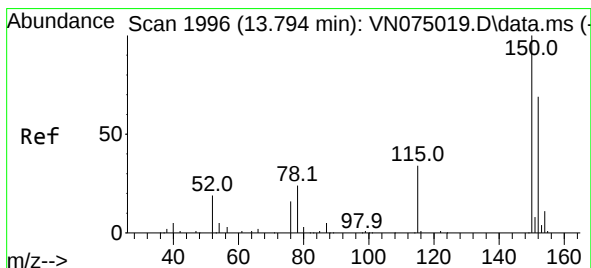
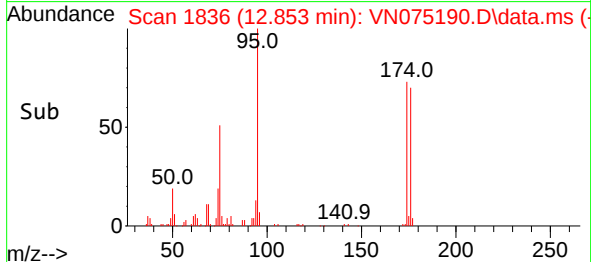
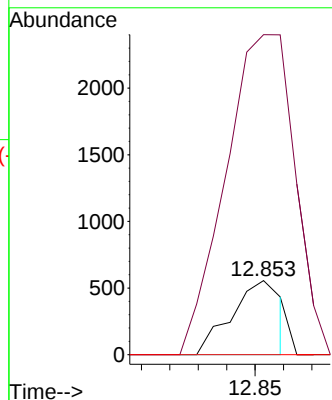
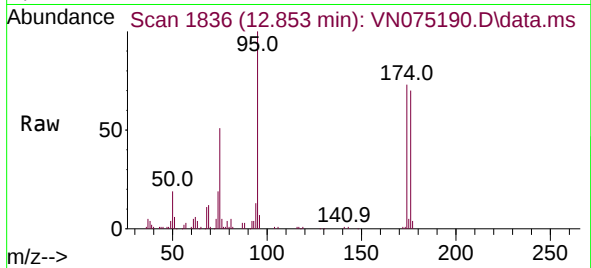




#71  
Bromoform  
Concen: 0.649 ug/l  
RT: 12.853 min Scan# 1836  
Delta R.T. 0.271 min  
Lab File: VN075190.D  
Acq: 07 Nov 2022 16:09

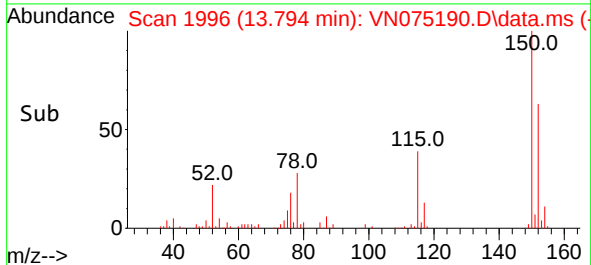
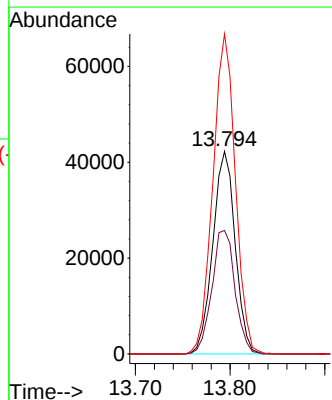
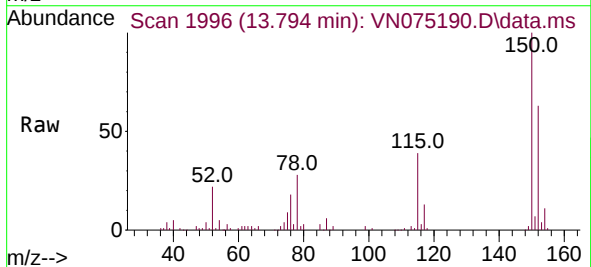
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB148848ZHE#02

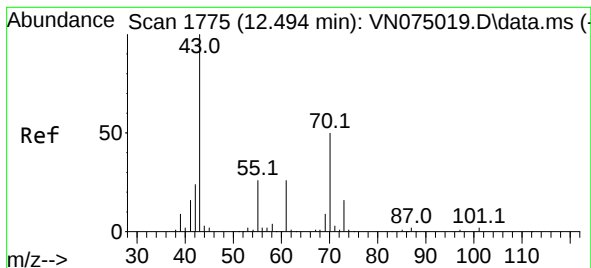
Tgt Ion:173 Resp: 677  
Ion Ratio Lower Upper  
173 100  
175 513.3 24.6 74.0#  
254 0.0 0.0 0.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.794 min Scan# 1996  
Delta R.T. 0.000 min  
Lab File: VN075190.D  
Acq: 07 Nov 2022 16:09

Tgt Ion:152 Resp: 69443  
Ion Ratio Lower Upper  
152 100  
115 62.9 30.2 90.6  
150 158.5 0.0 348.4





#74

N-amy1 acetate

Concen: 0.328 ug/l

RT: 12.494 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN075190.D

Acq: 07 Nov 2022 16:09

Instrument :

MSVOA\_N

ClientSampleId :

PB148848ZHE#02

Tgt Ion: 43 Resp: 677

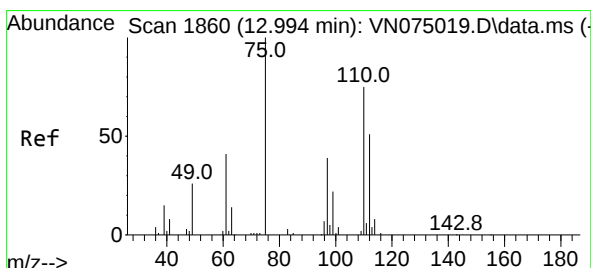
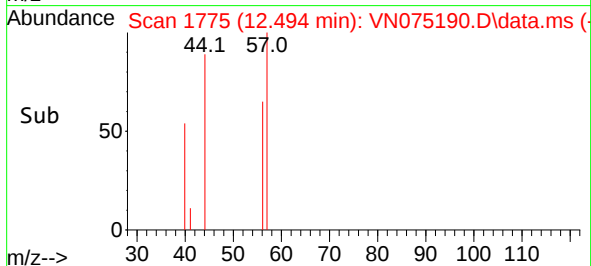
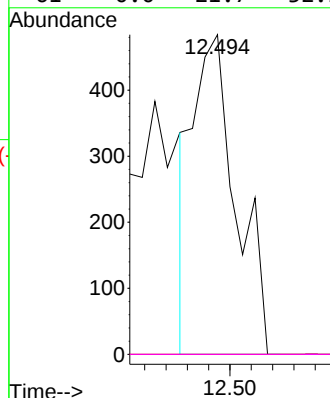
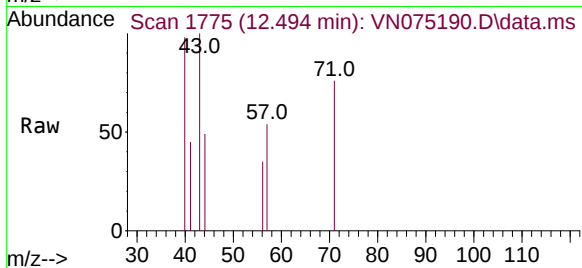
Ion Ratio Lower Upper

43 100

70 0.0 39.8 59.8#

55 0.0 19.9 29.9#

61 0.0 21.7 32.5#



#76

1,2,3-Trichloropropane

Concen: 28.155 ug/l

RT: 12.847 min Scan# 1835

Delta R.T. -0.147 min

Lab File: VN075190.D

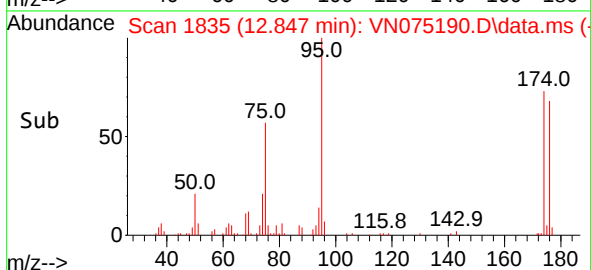
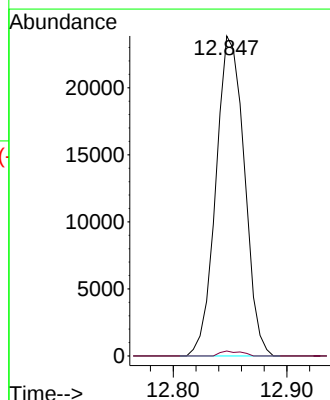
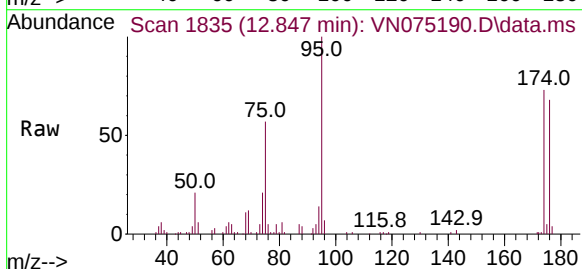
Acq: 07 Nov 2022 16:09

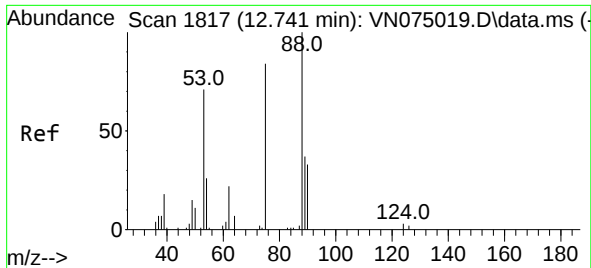
Tgt Ion: 75 Resp: 41514

Ion Ratio Lower Upper

75 100

77 1.2 75.6 226.8#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 72.275 ug/l  
 RT: 12.847 min Scan# 11  
 Delta R.T. 0.106 min  
 Lab File: VN075190.D  
 Acq: 07 Nov 2022 16:09

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB148848ZHE#02

Tgt Ion: 75 Resp: 41514  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 78.5 117.7#  
 89 0.0 37.7 56.5#

