

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN12222\  
 Data File : VN075950.D  
 Acq On : 22 Dec 2022 17:24  
 Operator : JC\MD  
 Sample : N6151-05  
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 FS-01-(0-2)

Quant Time: Dec 23 05:24:16 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N121422W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Dec 14 13:03:41 2022  
 Response via : Initial Calibration

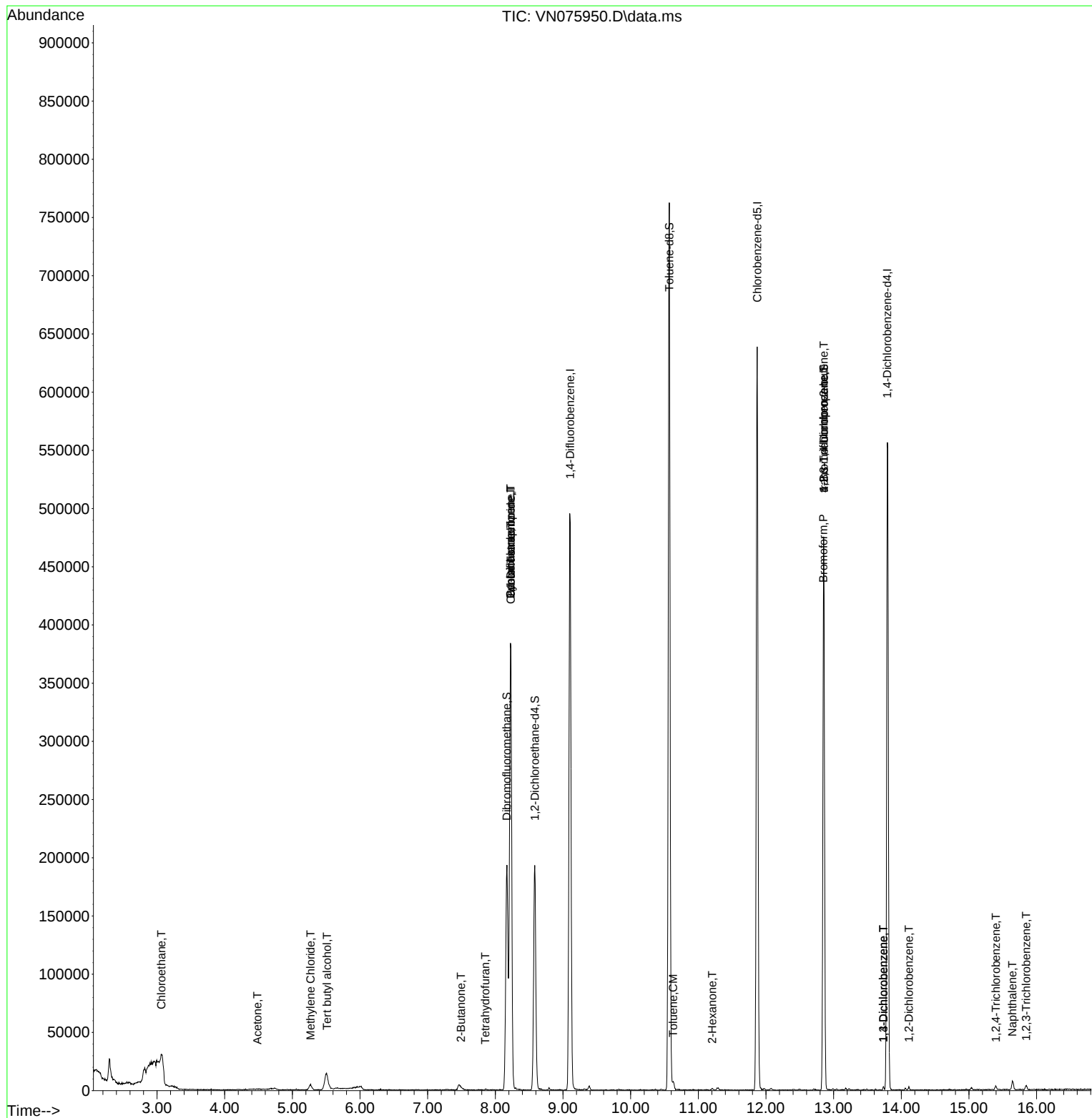
| Compound                      | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|--------|----------|
| -----                         |                |      |            |         |        |          |
| Internal Standards            |                |      |            |         |        |          |
| 1) Pentafluorobenzene         | 8.224          | 168  | 299917     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.106          | 114  | 464800     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.870         | 117  | 391449     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794         | 152  | 163308     | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds   |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.582          | 65   | 154949     | 47.489  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = | 94.980% |        |          |
| 35) Dibromofluoromethane      | 8.171          | 113  | 137651     | 47.821  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 95.640% |        |          |
| 50) Toluene-d8                | 10.571         | 98   | 536185     | 49.821  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = | 99.640% |        |          |
| 62) 4-Bromofluorobenzene      | 12.853         | 95   | 155926     | 43.744  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 87.480% |        |          |
| Target Compounds              |                |      |            |         |        |          |
|                               |                |      |            |         | Qvalue |          |
| 6) Chloroethane               | 3.065          | 64   | 8043       | 3.438   | ug/l # | 58       |
| 11) Tert butyl alcohol        | 5.512          | 59   | 12577      | 27.242  | ug/l # | 72       |
| 16) Acetone                   | 4.483          | 43   | 570        | 0.507   | ug/l   | 93       |
| 20) Methylene Chloride        | 5.271          | 84   | 3729       | 0.607   | ug/l   | 91       |
| 25) 2-Butanone                | 7.494          | 43   | 703        | 0.446   | ug/l # | 40       |
| 29) Tetrahydrofuran           | 7.853          | 42   | 318        | 0.322   | ug/l # | 69       |
| 31) Cyclohexane               | 8.224          | 56   | 5725       | 1.225   | ug/l # | 8        |
| 36) 1,1-Dichloropropene       | 8.224          | 75   | 21055      | 5.506   | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 8.230          | 117  | 29294      | 6.845   | ug/l # | 15       |
| 52) Toluene                   | 10.629         | 92   | 2309       | 0.301   | ug/l   | 95       |
| 59) 2-Hexanone                | 11.206         | 43   | 1197       | 0.536   | ug/l   | 99       |
| 71) Bromoform                 | 12.847         | 173  | 739        | 0.341   | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.853         | 75   | 80499      | 24.454  | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.853         | 75   | 80499      | 88.021  | ug/l # | 12       |
| 87) 1,3-Dichlorobenzene       | 13.735         | 146  | 1199       | 0.217   | ug/l   | 89       |
| 88) 1,4-Dichlorobenzene       | 13.735         | 146  | 1199       | 0.213   | ug/l   | 89       |
| 91) 1,2-Dichlorobenzene       | 14.111         | 146  | 1214       | 0.223   | ug/l   | 85       |
| 93) 1,2,4-Trichlorobenzene    | 15.400         | 180  | 1627       | 0.605   | ug/l   | 89       |
| 95) Naphthalene               | 15.641         | 128  | 7603       | 2.996   | ug/l   | 96       |
| 96) 1,2,3-Trichlorobenzene    | 15.847         | 180  | 1723       | 0.685   | ug/l   | 99       |
| -----                         |                |      |            |         |        |          |

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN122222\  
Data File : VN075950.D  
Acq On : 22 Dec 2022 17:24  
Operator : JC\MD  
Sample : N6151-05  
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
FS-01-(0-2)

Quant Time: Dec 23 05:24:16 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N121422W.M  
Quant Title : SW846 8260  
QLast Update : Wed Dec 14 13:03:41 2022  
Response via : Initial Calibration

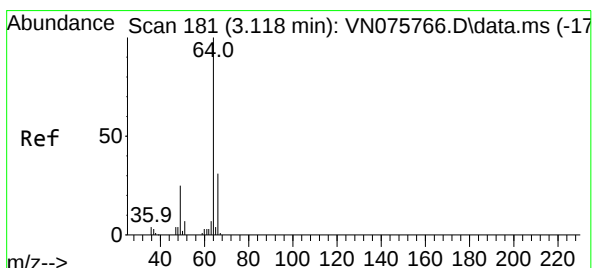
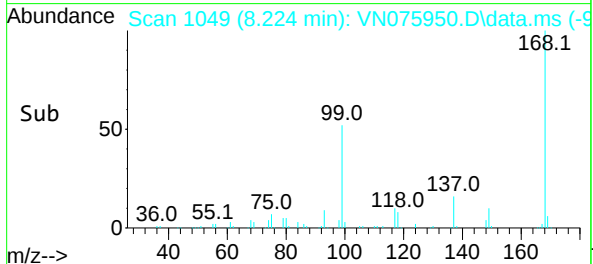
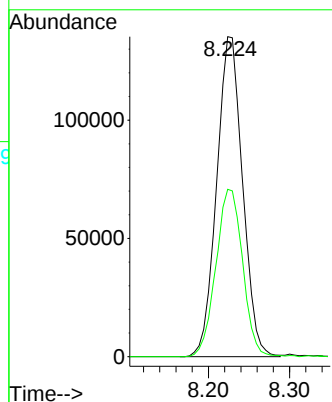
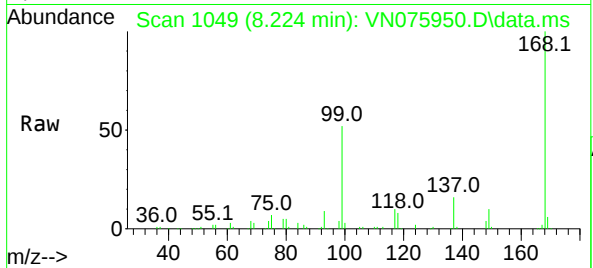




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.224 min Scan# 1  
Delta R.T. -0.006 min  
Lab File: VN075950.D  
Acq: 22 Dec 2022 17:24

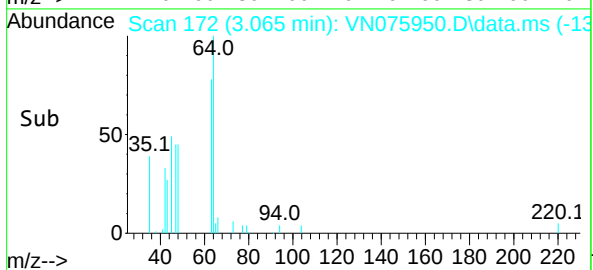
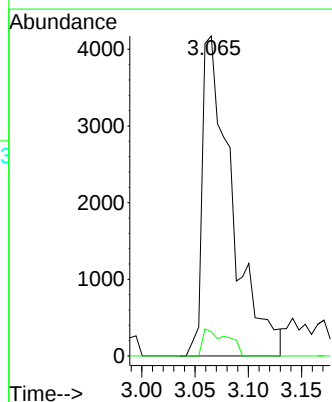
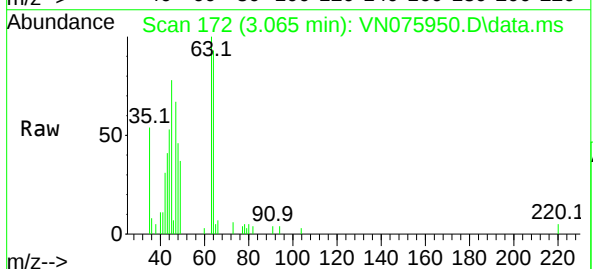
Instrument :  
MSVOA\_N  
ClientSampleId :  
FS-01-(0-2)

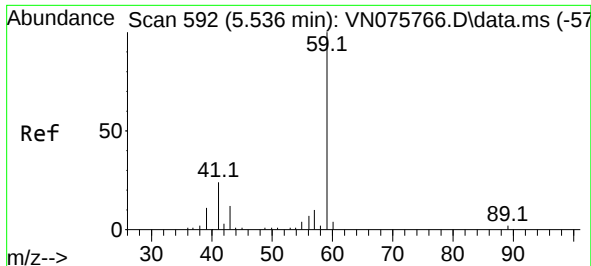
Tgt Ion:168 Resp: 299917  
Ion Ratio Lower Upper  
168 100  
99 52.3 44.2 66.4



#6  
Chloroethane  
Concen: 3.438 ug/l  
RT: 3.065 min Scan# 172  
Delta R.T. -0.053 min  
Lab File: VN075950.D  
Acq: 22 Dec 2022 17:24

Tgt Ion: 64 Resp: 8043  
Ion Ratio Lower Upper  
64 100  
66 7.6 24.6 36.8#

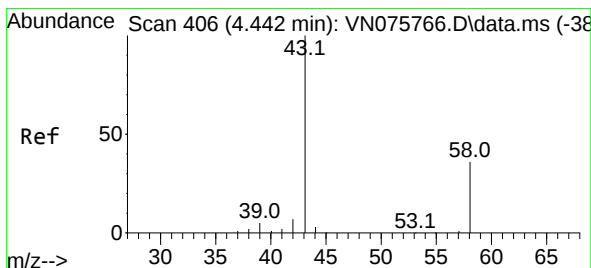
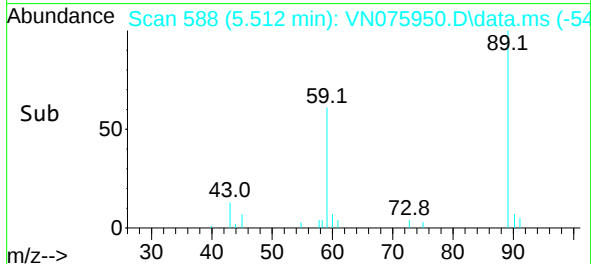
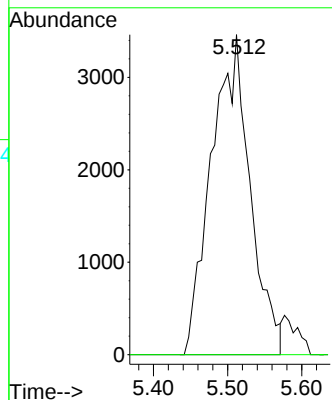
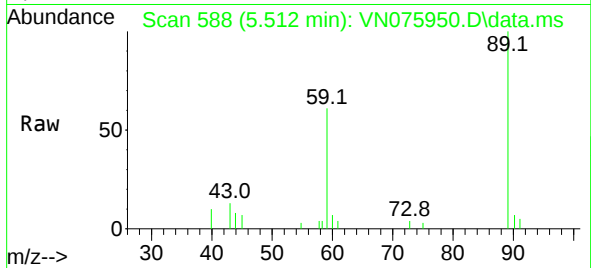




#11  
Tert butyl alcohol  
Concen: 27.242 ug/l  
RT: 5.512 min Scan# 51  
Delta R.T. -0.024 min  
Lab File: VN075950.D  
Acq: 22 Dec 2022 17:24

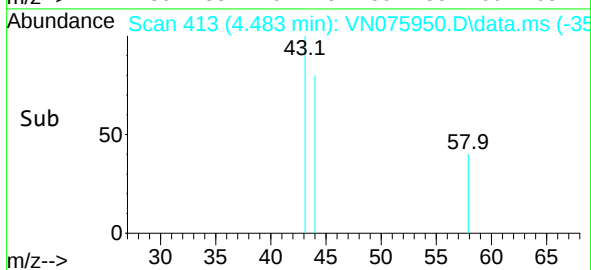
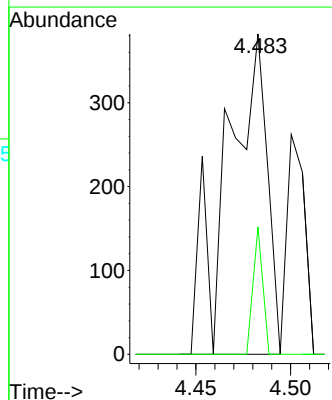
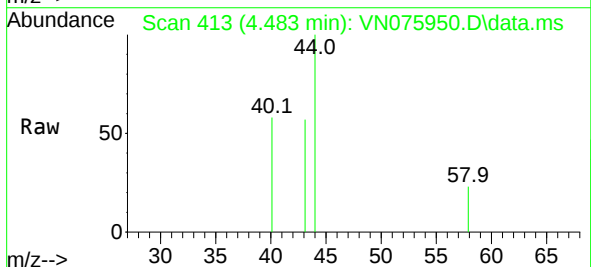
Instrument :  
MSVOA\_N  
ClientSampleId :  
FS-01-(0-2)

Tgt Ion: 59 Resp: 12577  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.2 12.4#



#16  
Acetone  
Concen: 0.507 ug/l  
RT: 4.483 min Scan# 413  
Delta R.T. 0.041 min  
Lab File: VN075950.D  
Acq: 22 Dec 2022 17:24

Tgt Ion: 43 Resp: 570  
Ion Ratio Lower Upper  
43 100  
58 39.8 28.6 43.0





#20

Methylene Chloride

Concen: 0.607 ug/l

RT: 5.271 min Scan# 54

Delta R.T. -0.018 min

Lab File: VN075950.D

Acq: 22 Dec 2022 17:24

Instrument :

MSVOA\_N

ClientSampleId :

FS-01-(0-2)

Tgt Ion: 84 Resp: 3729

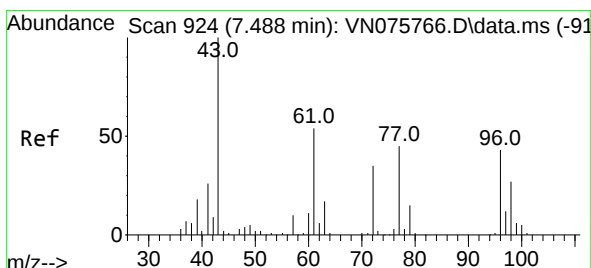
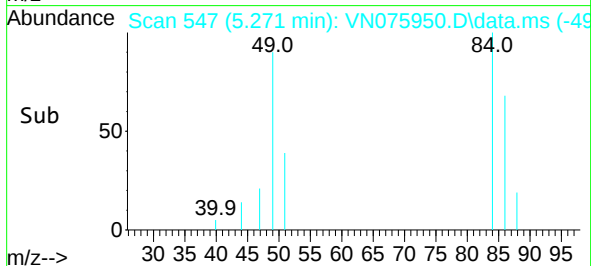
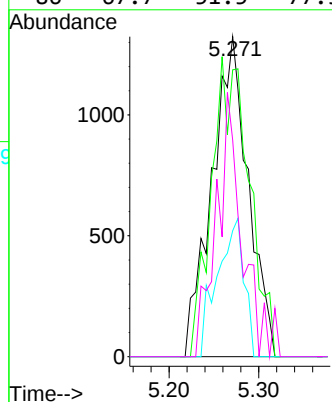
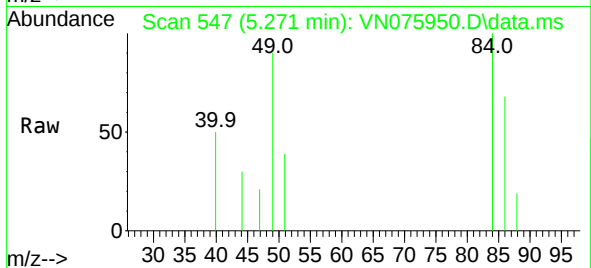
Ion Ratio Lower Upper

84 100

49 89.7 81.8 122.6

51 39.4 26.7 40.1

86 67.7 51.5 77.3



#25

2-Butanone

Concen: 0.446 ug/l

RT: 7.494 min Scan# 925

Delta R.T. 0.006 min

Lab File: VN075950.D

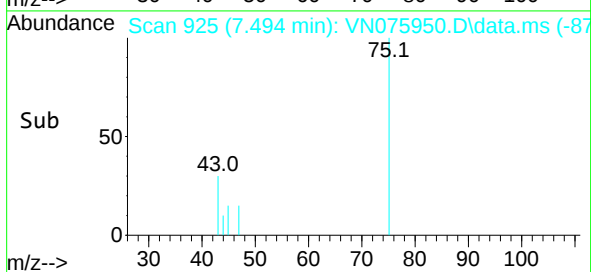
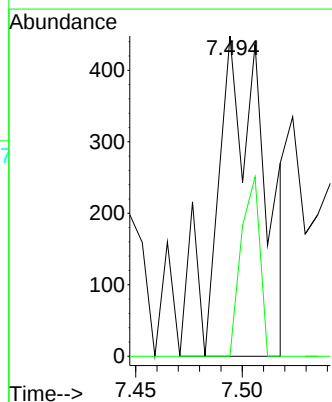
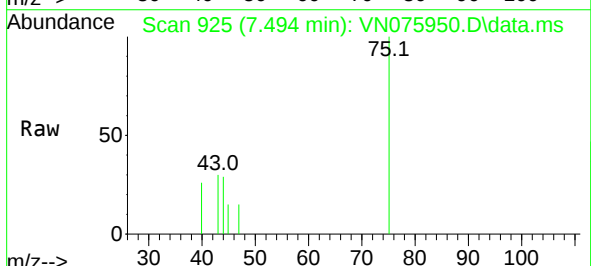
Acq: 22 Dec 2022 17:24

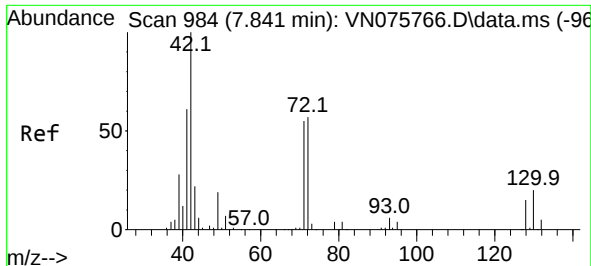
Tgt Ion: 43 Resp: 703

Ion Ratio Lower Upper

43 100

72 0.0 28.0 42.0#





#29

Tetrahydrofuran

Concen: 0.322 ug/l

RT: 7.853 min Scan# 91

Delta R.T. 0.012 min

Lab File: VN075950.D

Acq: 22 Dec 2022 17:24

Instrument :

MSVOA\_N

ClientSampleId :

FS-01-(0-2)

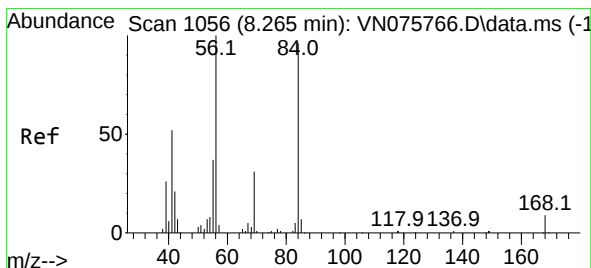
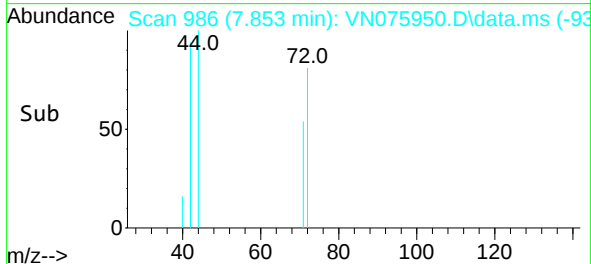
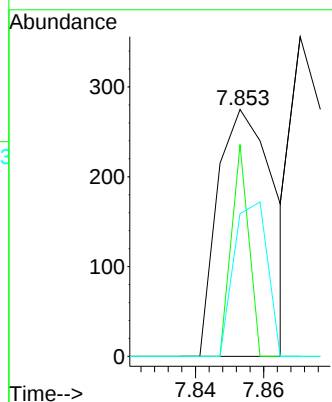
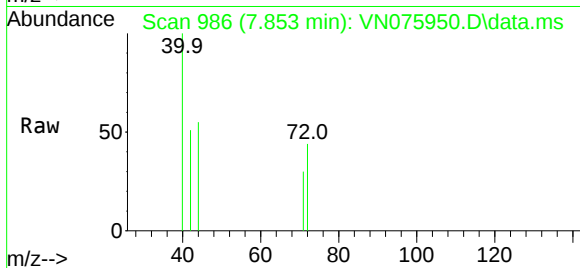
Tgt Ion: 42 Resp: 318

Ion Ratio Lower Upper

42 100

72 26.1 44.5 66.7#

71 36.8 41.0 61.6#



#31

Cyclohexane

Concen: 1.225 ug/l

RT: 8.224 min Scan# 1049

Delta R.T. -0.041 min

Lab File: VN075950.D

Acq: 22 Dec 2022 17:24

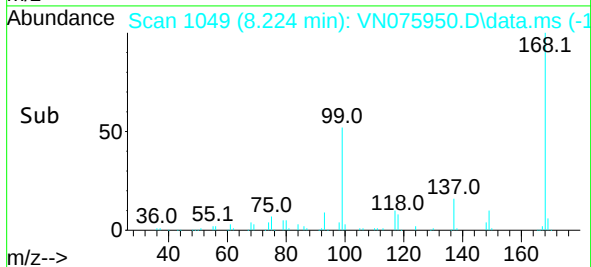
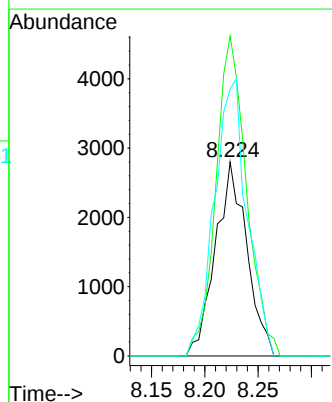
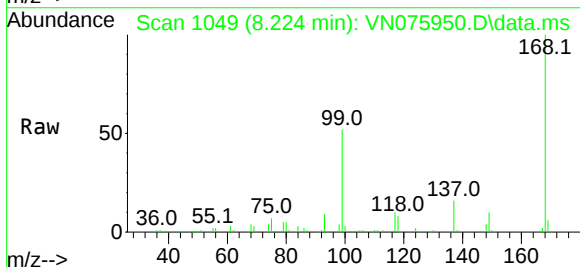
Tgt Ion: 56 Resp: 5725

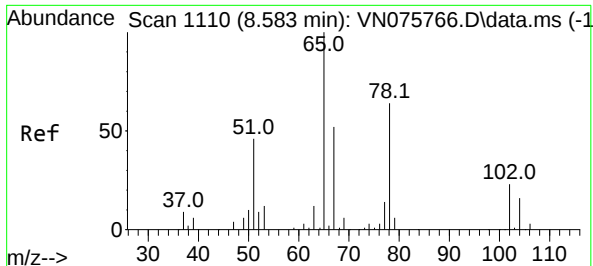
Ion Ratio Lower Upper

56 100

69 165.1 24.7 37.1#

84 137.8 76.5 114.7#





#33

1,2-Dichloroethane-d4

Concen: 47.489 ug/l

RT: 8.582 min Scan# 1110

Delta R.T. -0.000 min

Lab File: VN075950.D

Acq: 22 Dec 2022 17:24

Instrument :

MSVOA\_N

ClientSampleId :

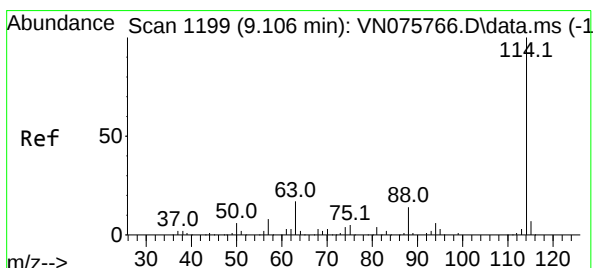
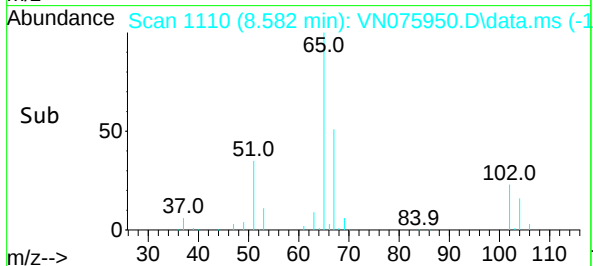
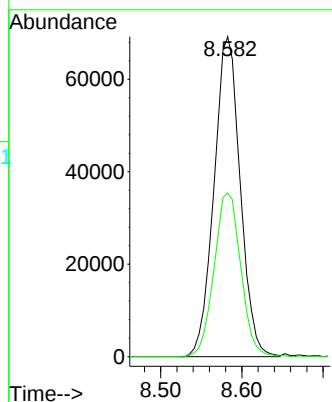
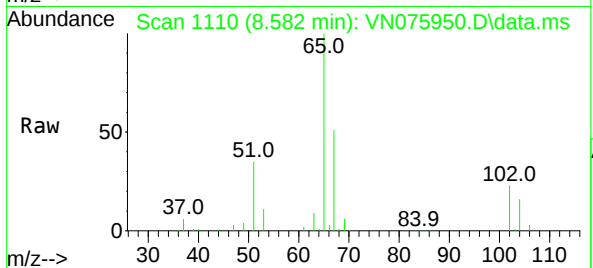
FS-01-(0-2)

Tgt Ion: 65 Resp: 154949

Ion Ratio Lower Upper

65 100

67 52.2 0.0 103.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1199

Delta R.T. -0.000 min

Lab File: VN075950.D

Acq: 22 Dec 2022 17:24

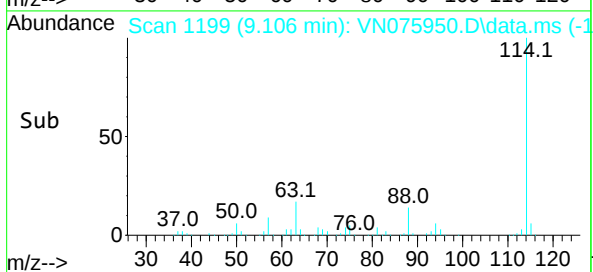
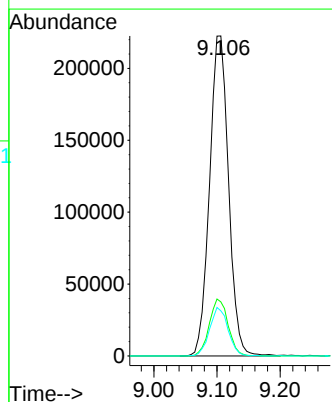
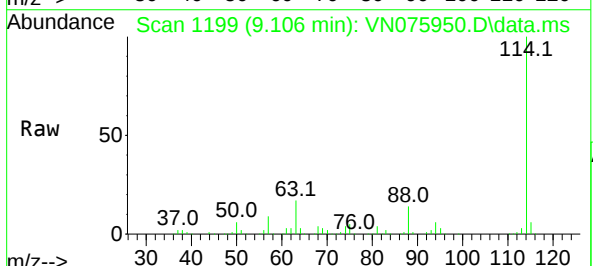
Tgt Ion: 114 Resp: 464800

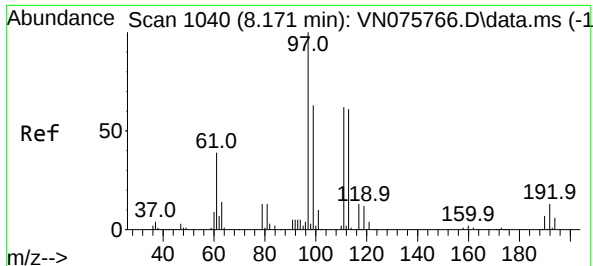
Ion Ratio Lower Upper

114 100

63 16.9 0.0 34.4

88 14.1 0.0 28.8





#35

Dibromofluoromethane

Concen: 47.821 ug/l

RT: 8.171 min Scan# 1040

Delta R.T. -0.000 min

Lab File: VN075950.D

Acq: 22 Dec 2022 17:24

Instrument :

MSVOA\_N

ClientSampleId :

FS-01-(0-2)

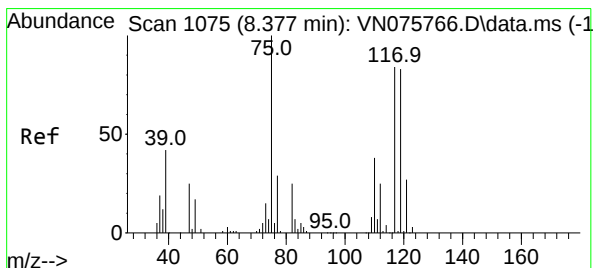
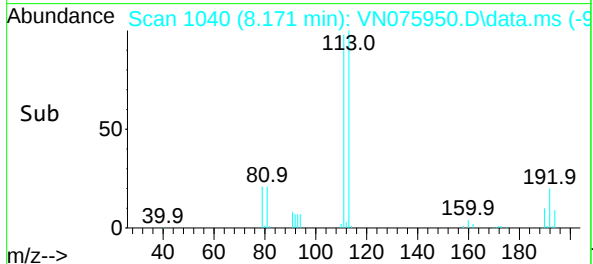
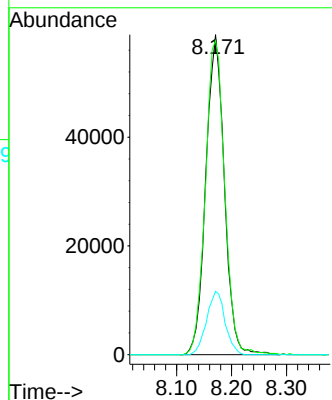
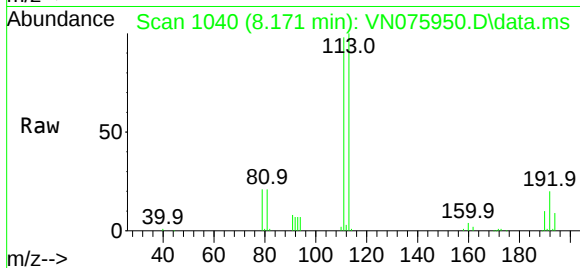
Tgt Ion:113 Resp: 137651

Ion Ratio Lower Upper

113 100

111 102.5 83.4 125.2

192 19.7 16.1 24.1



#36

1,1-Dichloropropene

Concen: 5.506 ug/l

RT: 8.224 min Scan# 1049

Delta R.T. -0.153 min

Lab File: VN075950.D

Acq: 22 Dec 2022 17:24

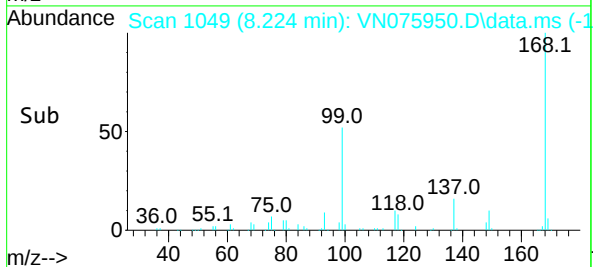
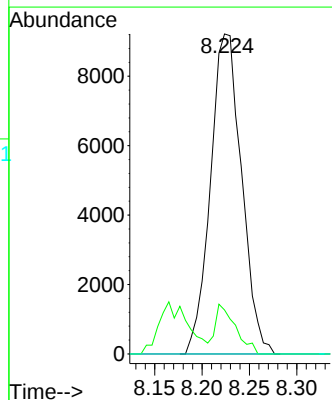
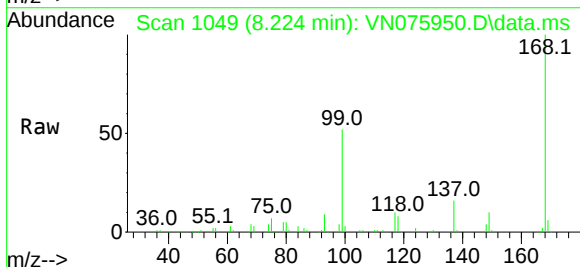
Tgt Ion: 75 Resp: 21055

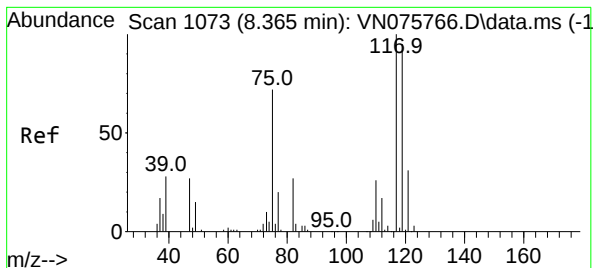
Ion Ratio Lower Upper

75 100

110 10.2 18.8 56.4#

77 0.0 24.1 36.1#





#38

Carbon Tetrachloride

Concen: 6.845 ug/l

RT: 8.230 min Scan# 1073

Delta R.T. -0.135 min

Lab File: VN075950.D

Acq: 22 Dec 2022 17:24

Instrument :

MSVOA\_N

ClientSampleId :

FS-01-(0-2)

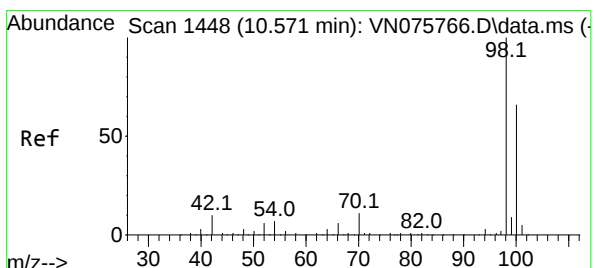
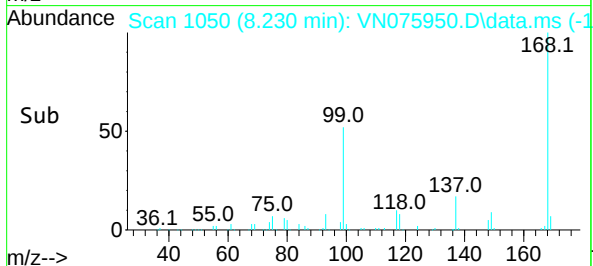
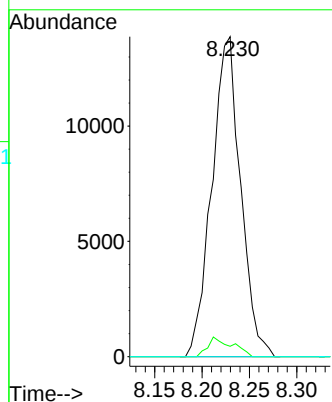
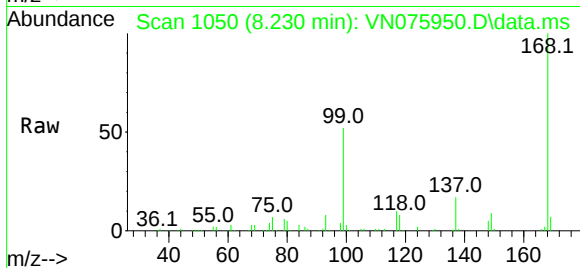
Tgt Ion:117 Resp: 29294

Ion Ratio Lower Upper

117 100

119 3.2 76.1 114.1#

121 0.0 24.5 36.7#



#50

Toluene-d8

Concen: 49.821 ug/l

RT: 10.571 min Scan# 1448

Delta R.T. -0.000 min

Lab File: VN075950.D

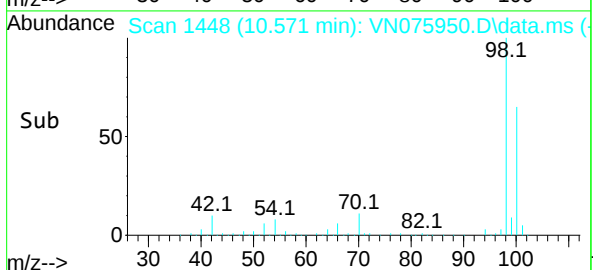
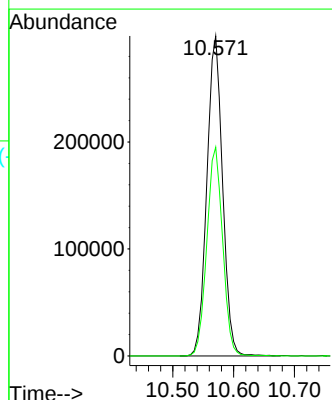
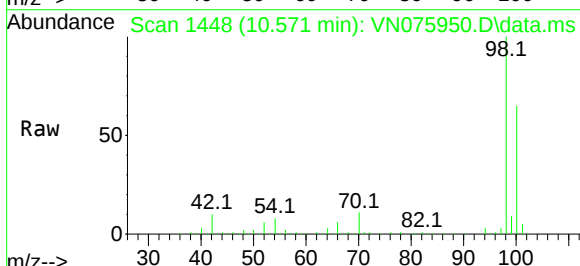
Acq: 22 Dec 2022 17:24

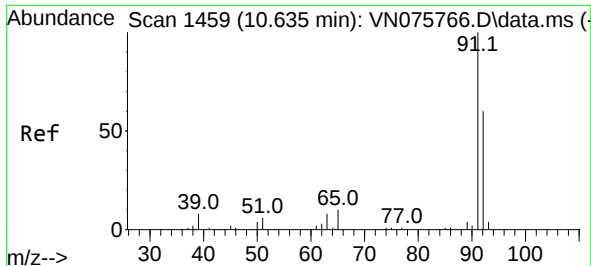
Tgt Ion: 98 Resp: 536185

Ion Ratio Lower Upper

98 100

100 65.8 52.1 78.1

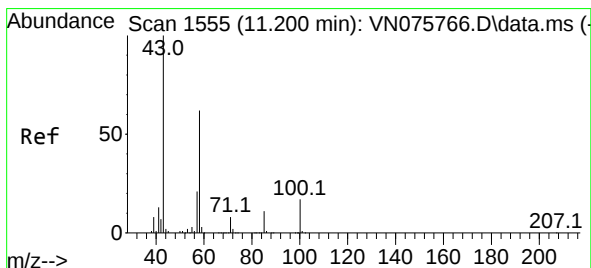
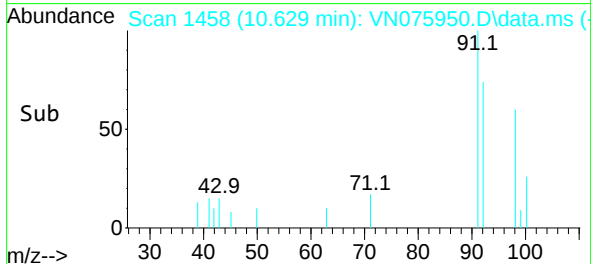
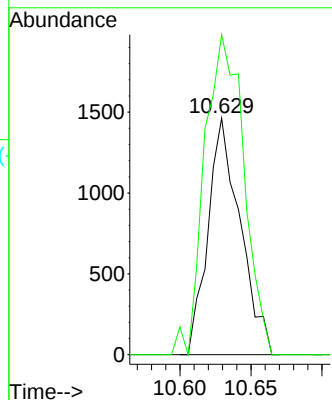
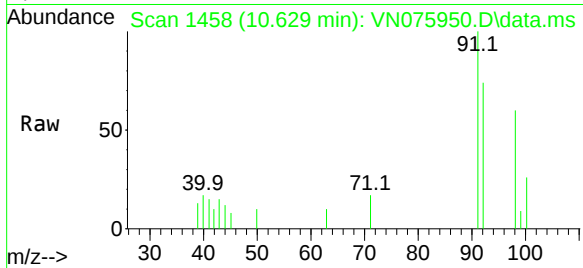




#52  
Toluene  
Concen: 0.301 ug/l  
RT: 10.629 min Scan# 1458  
Delta R.T. -0.006 min  
Lab File: VN075950.D  
Acq: 22 Dec 2022 17:24

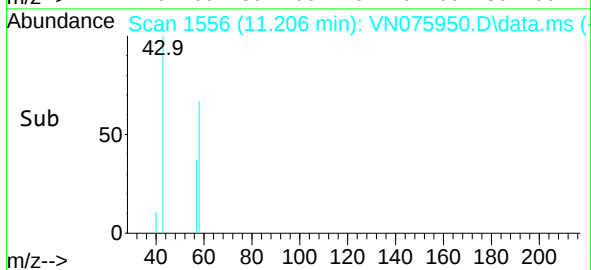
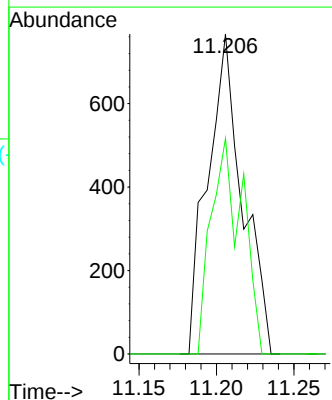
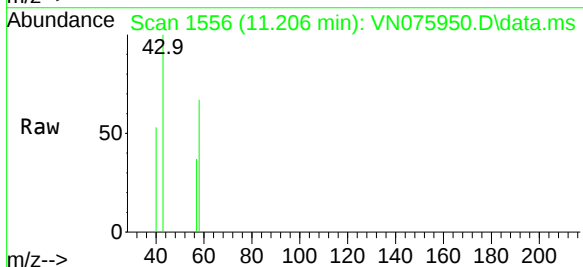
Instrument :  
MSVOA\_N  
ClientSampleId :  
FS-01-(0-2)

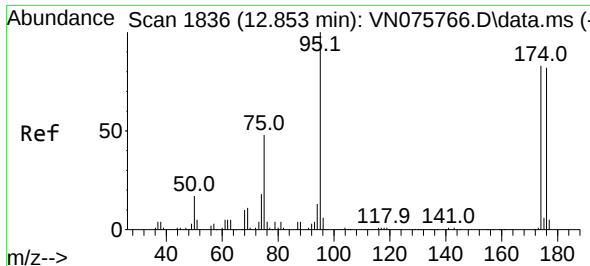
Tgt Ion: 92 Resp: 2309  
Ion Ratio Lower Upper  
92 100  
91 164.7 137.3 205.9



#59  
2-Hexanone  
Concen: 0.536 ug/l  
RT: 11.206 min Scan# 1556  
Delta R.T. 0.006 min  
Lab File: VN075950.D  
Acq: 22 Dec 2022 17:24

Tgt Ion: 43 Resp: 1197  
Ion Ratio Lower Upper  
43 100  
58 60.7 30.6 92.0

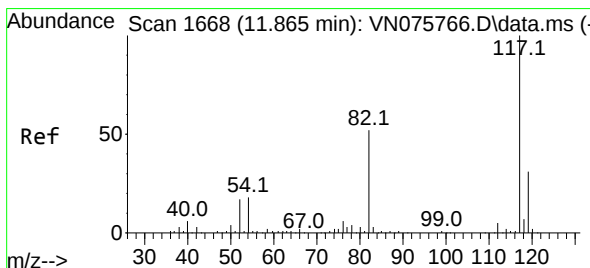
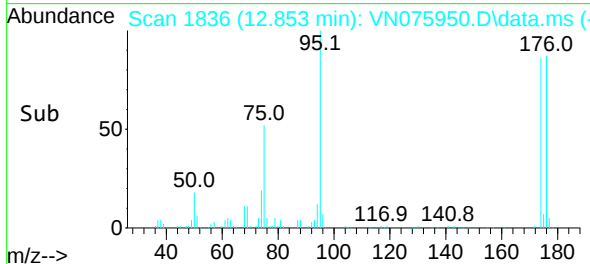
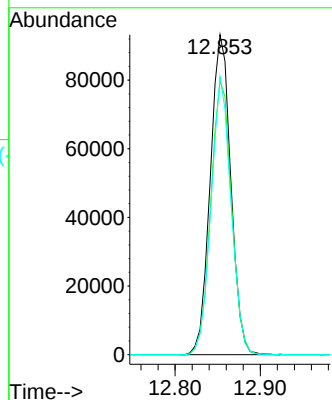
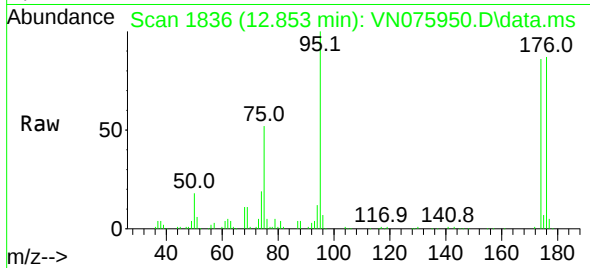




#62  
4-Bromofluorobenzene  
Concen: 43.744 ug/l  
RT: 12.853 min Scan# 1836  
Delta R.T. -0.000 min  
Lab File: VN075950.D  
Acq: 22 Dec 2022 17:24

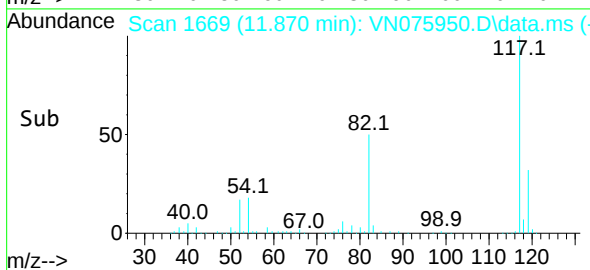
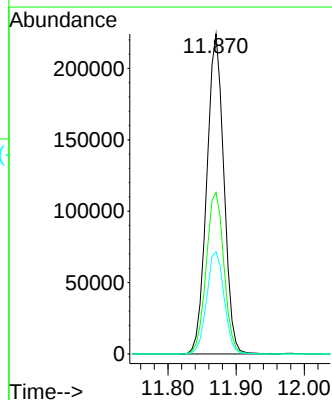
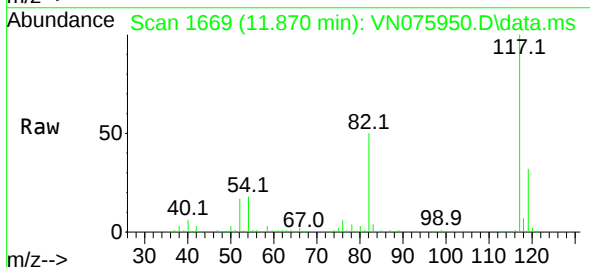
Instrument :  
MSVOA\_N  
ClientSampleId :  
FS-01-(0-2)

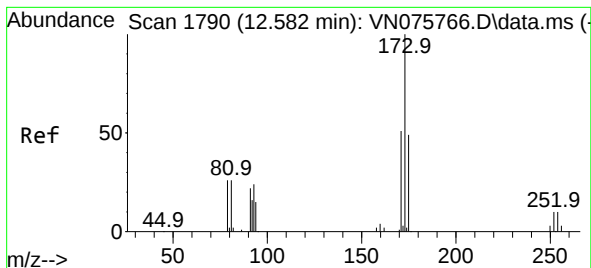
Tgt Ion: 95 Resp: 155926  
Ion Ratio Lower Upper  
95 100  
174 86.7 0.0 171.6  
176 84.1 0.0 169.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.870 min Scan# 1669  
Delta R.T. 0.006 min  
Lab File: VN075950.D  
Acq: 22 Dec 2022 17:24

Tgt Ion: 117 Resp: 391449  
Ion Ratio Lower Upper  
117 100  
82 50.4 41.3 61.9  
119 31.9 24.6 37.0





#71

Bromoform

Concen: 0.341 ug/l

RT: 12.847 min Scan# 1835

Delta R.T. 0.265 min

Lab File: VN075950.D

Acq: 22 Dec 2022 17:24

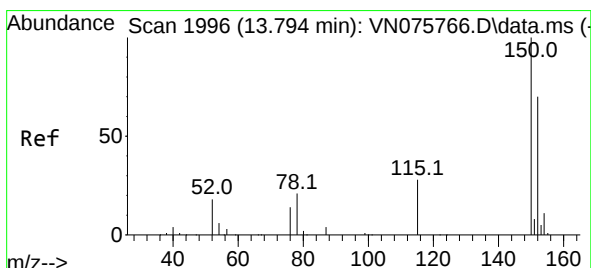
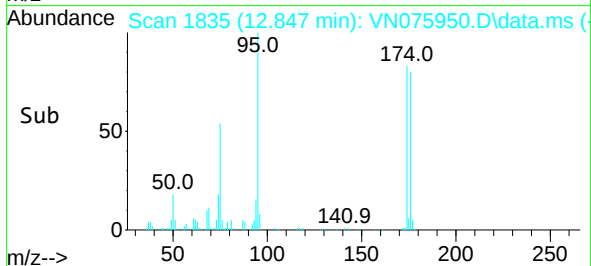
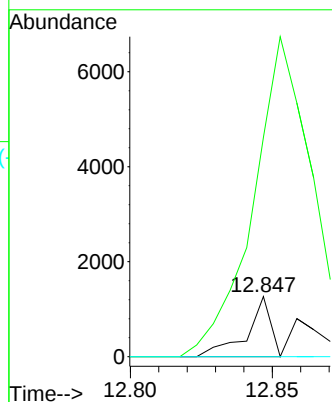
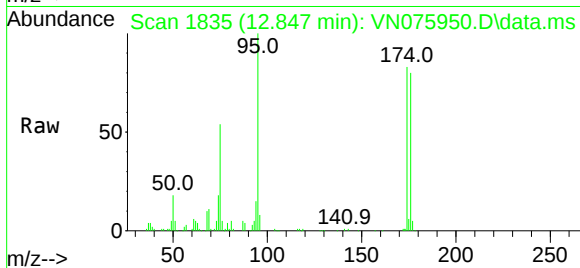
Instrument :

MSVOA\_N

ClientSampleId :

FS-01-(0-2)

|             |        |            |
|-------------|--------|------------|
| Tgt Ion:173 | Resp:  | 739        |
| Ion Ratio   | Lower  | Upper      |
| 173         | 100    |            |
| 175         | 1019.1 | 24.3 72.8# |
| 254         | 0.0    | 0.0 0.0    |



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

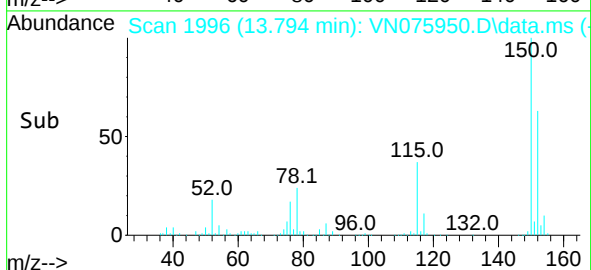
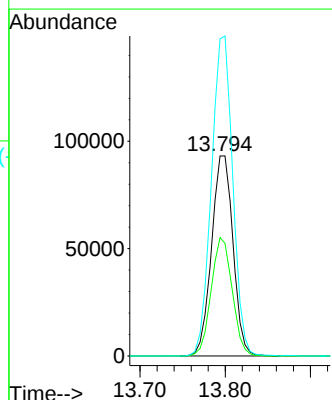
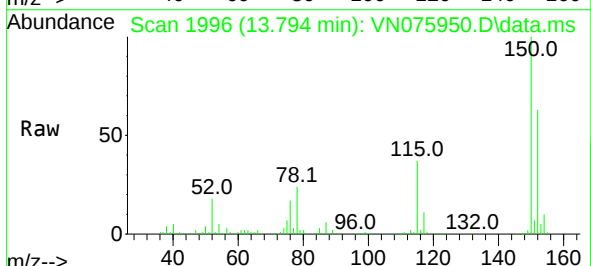
RT: 13.794 min Scan# 1996

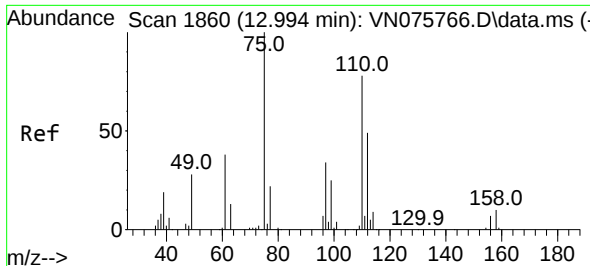
Delta R.T. -0.000 min

Lab File: VN075950.D

Acq: 22 Dec 2022 17:24

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:152 | Resp: | 163308    |
| Ion Ratio   | Lower | Upper     |
| 152         | 100   |           |
| 115         | 57.8  | 29.1 87.4 |
| 150         | 158.7 | 0.0 347.0 |

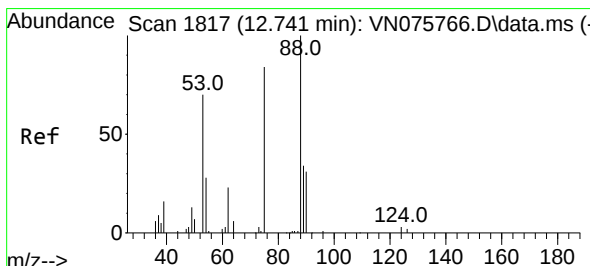
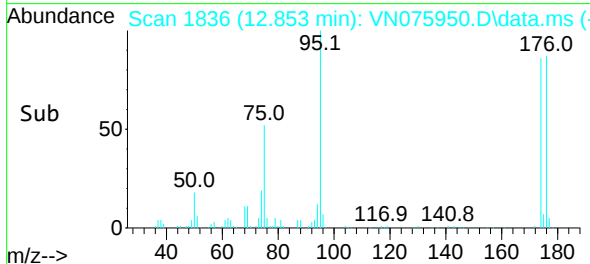
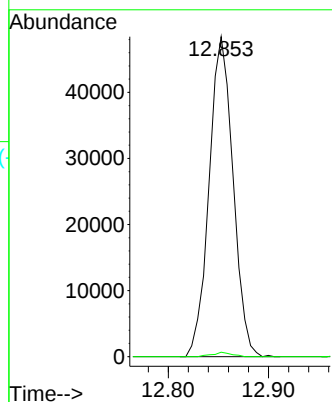
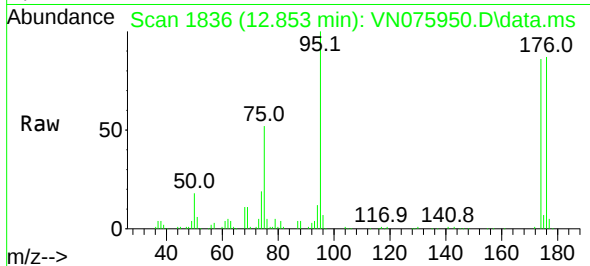




#76  
1,2,3-Trichloropropane  
Concen: 24.454 ug/l  
RT: 12.853 min Scan# 1836  
Delta R.T. -0.141 min  
Lab File: VN075950.D  
Acq: 22 Dec 2022 17:24

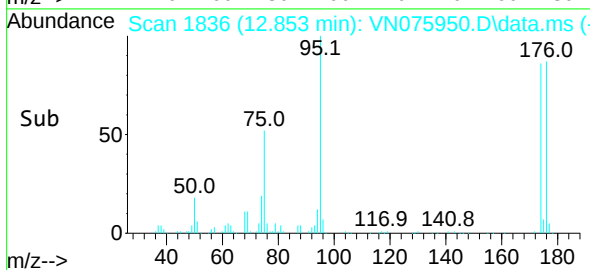
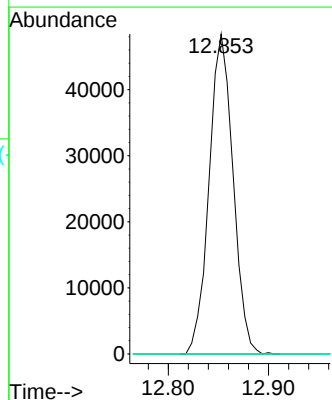
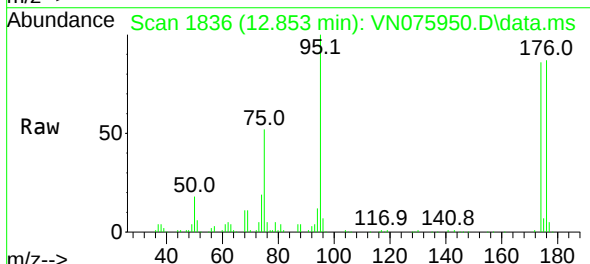
Instrument :  
MSVOA\_N  
ClientSampleId :  
FS-01-(0-2)

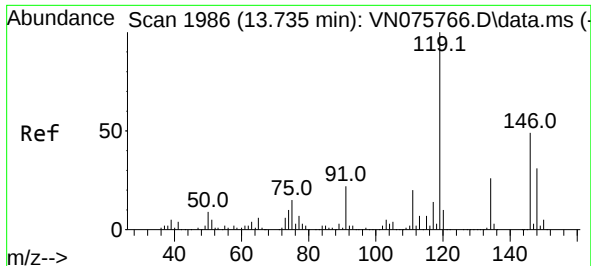
Tgt Ion: 75 Resp: 80499  
Ion Ratio Lower Upper  
75 100  
77 1.1 82.6 247.8#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 88.021 ug/l  
RT: 12.853 min Scan# 1836  
Delta R.T. 0.112 min  
Lab File: VN075950.D  
Acq: 22 Dec 2022 17:24

Tgt Ion: 75 Resp: 80499  
Ion Ratio Lower Upper  
75 100  
53 0.0 73.8 110.6#  
89 0.0 39.5 59.3#

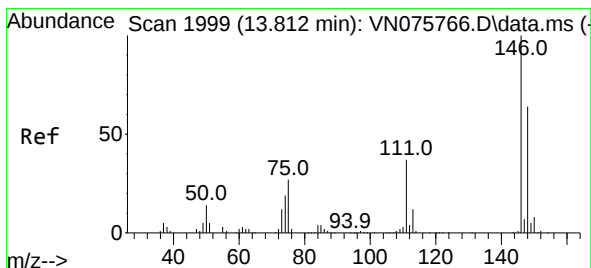
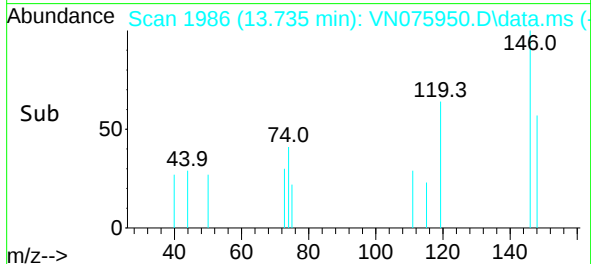
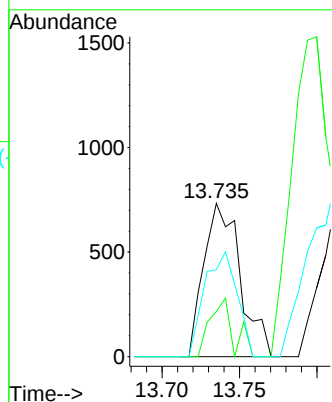
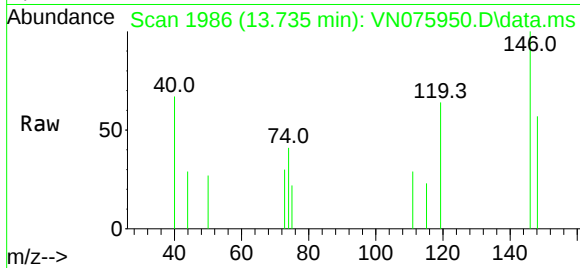




#87  
1,3-Dichlorobenzene  
Concen: 0.217 ug/l  
RT: 13.735 min Scan# 1986  
Delta R.T. -0.000 min  
Lab File: VN075950.D  
Acq: 22 Dec 2022 17:24

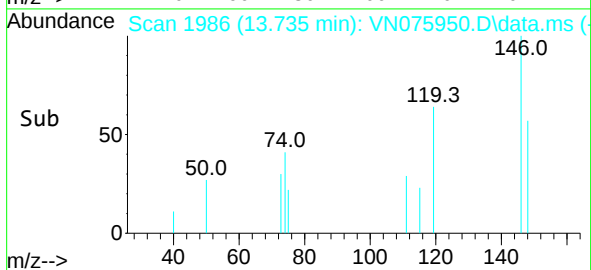
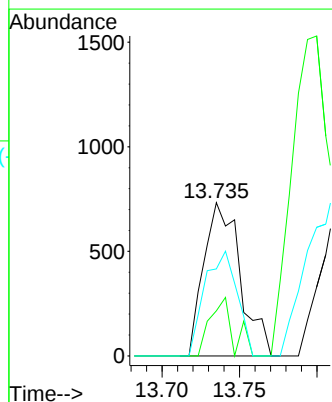
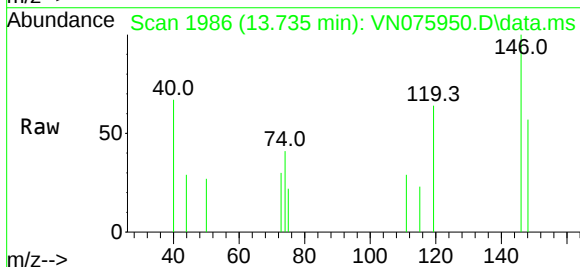
Instrument :  
MSVOA\_N  
ClientSampleId :  
FS-01-(0-2)

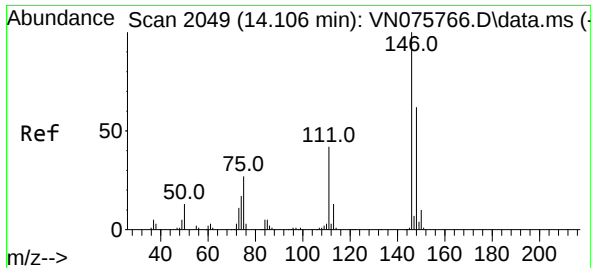
Tgt Ion:146 Resp: 1199  
Ion Ratio Lower Upper  
146 100  
111 24.4 19.7 59.0  
148 60.6 31.4 94.2



#88  
1,4-Dichlorobenzene  
Concen: 0.213 ug/l  
RT: 13.735 min Scan# 1986  
Delta R.T. -0.077 min  
Lab File: VN075950.D  
Acq: 22 Dec 2022 17:24

Tgt Ion:146 Resp: 1199  
Ion Ratio Lower Upper  
146 100  
111 24.4 19.1 57.1  
148 60.6 32.0 96.2





#91

1,2-Dichlorobenzene

Concen: 0.223 ug/l

RT: 14.111 min Scan# 2049

Delta R.T. 0.006 min

Lab File: VN075950.D

Acq: 22 Dec 2022 17:24

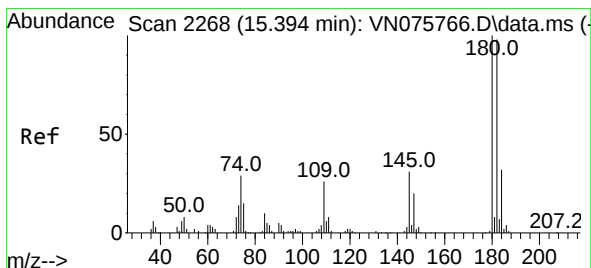
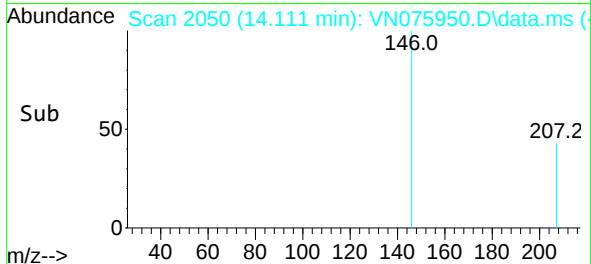
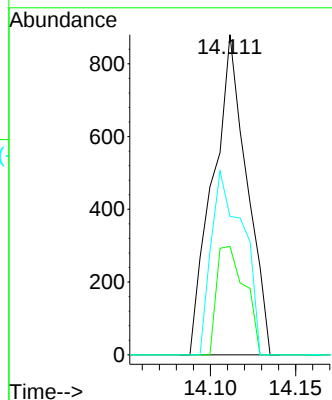
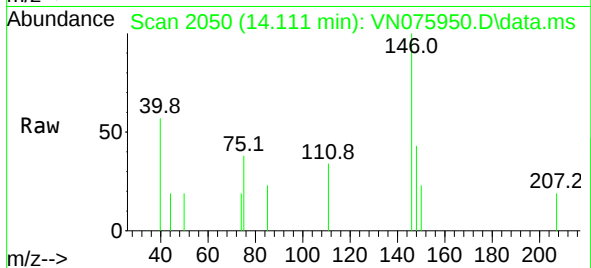
Instrument :

MSVOA\_N

ClientSampleId :

FS-01-(0-2)

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:146 | Resp: | 1214        |
| Ion         | Ratio | Lower Upper |
| 146         | 100   |             |
| 111         | 28.3  | 20.3 61.0   |
| 148         | 54.0  | 31.7 95.1   |



#93

1,2,4-Trichlorobenzene

Concen: 0.605 ug/l

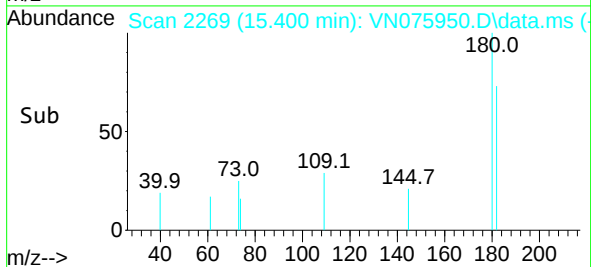
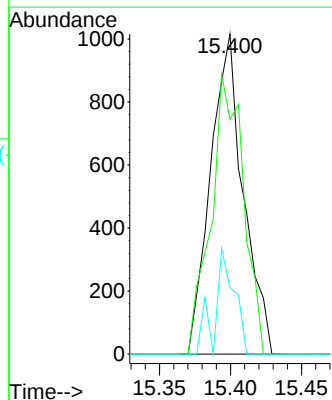
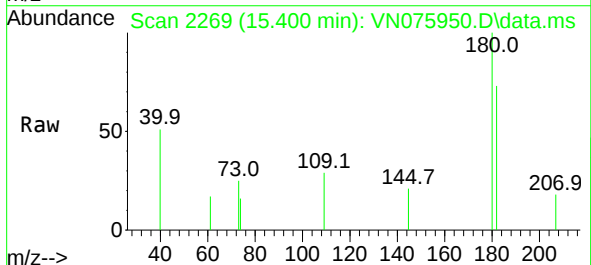
RT: 15.400 min Scan# 2269

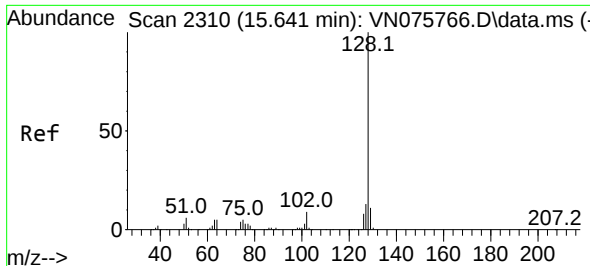
Delta R.T. 0.006 min

Lab File: VN075950.D

Acq: 22 Dec 2022 17:24

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:180 | Resp: | 1627        |
| Ion         | Ratio | Lower Upper |
| 180         | 100   |             |
| 182         | 86.6  | 47.5 142.5  |
| 145         | 19.8  | 15.3 45.8   |

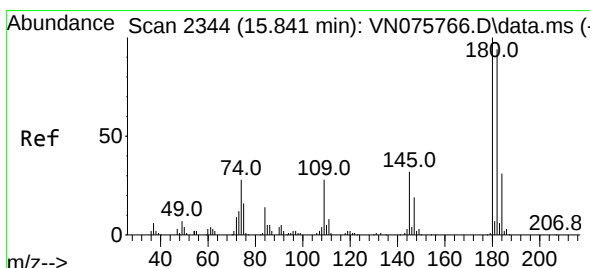
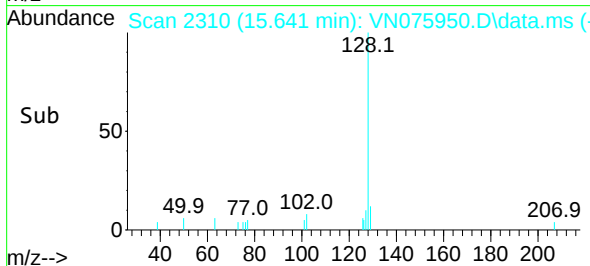
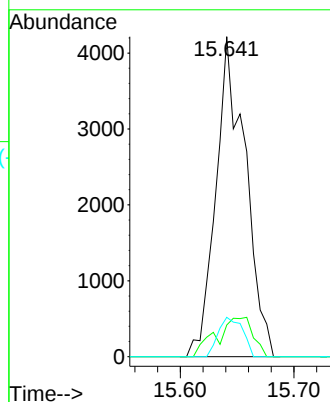
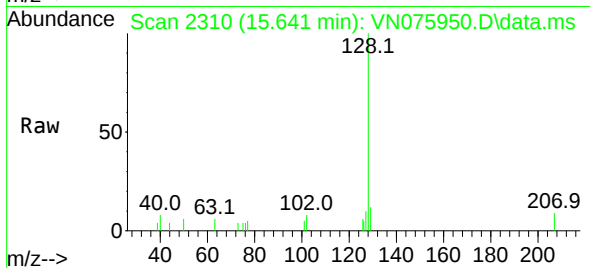




#95  
Naphthalene  
Concen: 2.996 ug/l  
RT: 15.641 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VN075950.D  
Acq: 22 Dec 2022 17:24

Instrument :  
MSVOA\_N  
ClientSampleId :  
FS-01-(0-2)

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 7603  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 15.1  | 10.4  | 15.6  |
| 129      | 10.2  | 8.7   | 13.1  |



#96  
1,2,3-Trichlorobenzene  
Concen: 0.685 ug/l  
RT: 15.847 min Scan# 2345  
Delta R.T. 0.006 min  
Lab File: VN075950.D  
Acq: 22 Dec 2022 17:24

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 1723  |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 94.1  | 47.0  | 141.0 |
| 145      | 29.1  | 16.0  | 47.9  |

