

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX102122\  
 Data File : VX032300.D  
 Acq On : 21 Oct 2022 19:39  
 Operator : JC/MD  
 Sample : N5248-07  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 FSND-GEP-2-20221018

Quant Time: Oct 22 05:14:36 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X101922W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Oct 22 04:56:40 2022  
 Response via : Initial Calibration

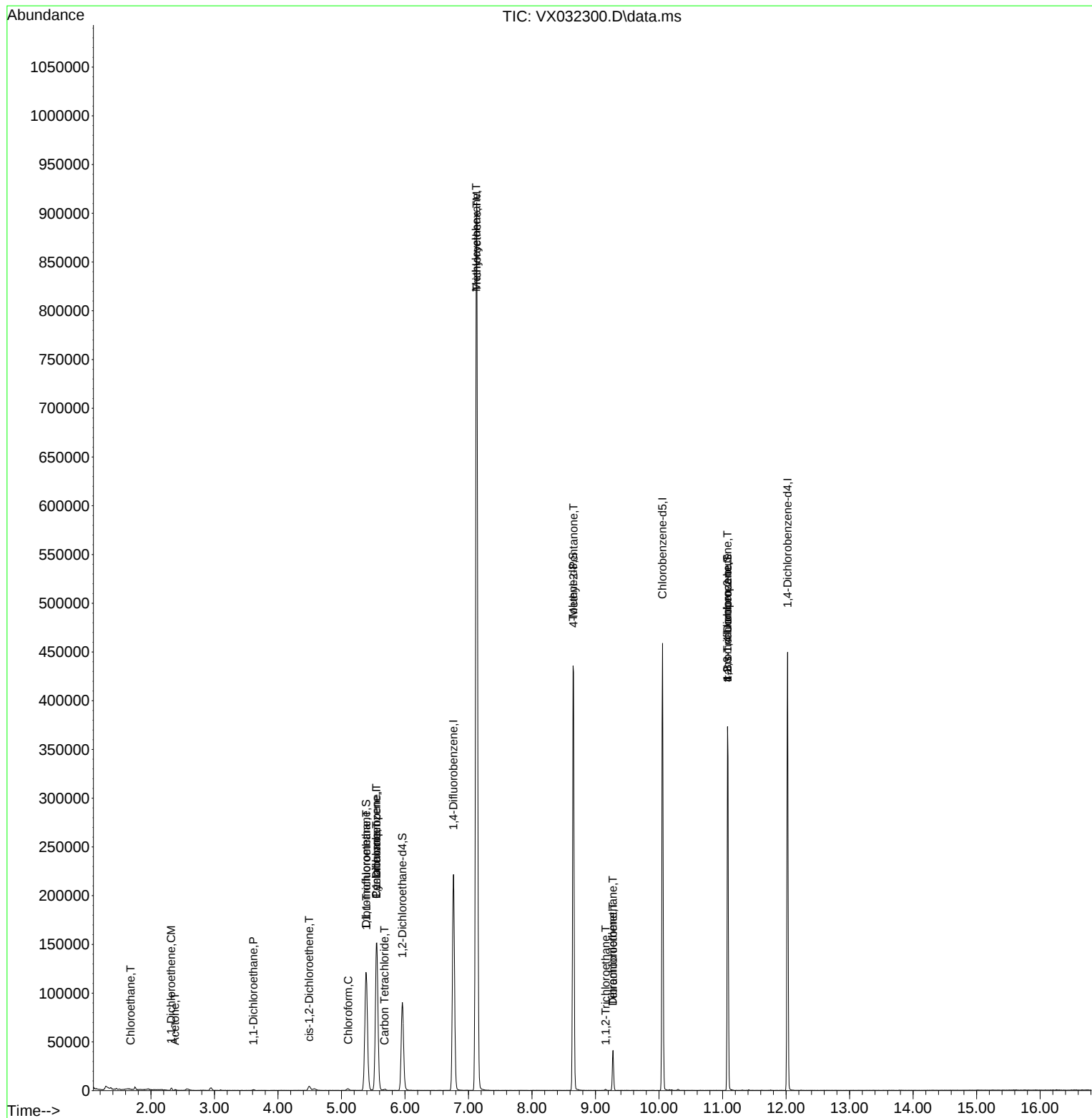
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 5.550  | 168   | 143031   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 222774   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 194414   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 90093    | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958  | 65    | 89970    | 48.353    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery  | =      | 96.700%  |
| 35) Dibromofluoromethane      | 5.385  | 113   | 70440    | 45.439    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | =      | 90.880%  |
| 50) Toluene-d8                | 8.647  | 98    | 260969   | 46.766    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery  | =      | 93.540%  |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 93083    | 45.553    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | =      | 91.100%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 3) Chloromethane              | 1.288  | 50    | 61       | Below Cal | #      | 44       |
| 6) Chloroethane               | 1.678  | 64    | 52       | 1.988     | ug/l # | 41       |
| 11) Tert butyl alcohol        | 2.947  | 59    | 1775     | Below Cal | #      | 74       |
| 12) 1,1-Dichloroethene        | 2.319  | 96    | 875      | 0.685     | ug/l   | 93       |
| 16) Acetone                   | 2.380  | 43    | 1049     | 1.737     | ug/l   | 90       |
| 24) 1,1-Dichloroethane        | 3.611  | 63    | 1173     | 0.462     | ug/l # | 82       |
| 27) cis-1,2-Dichloroethene    | 4.489  | 96    | 2943     | 1.808     | ug/l   | 92       |
| 30) Chloroform                | 5.105  | 83    | 2134     | 0.773     | ug/l   | 99       |
| 31) Cyclohexane               | 5.550  | 56    | 3254     | 1.530     | ug/l # | 21       |
| 32) 1,1,1-Trichloroethane     | 5.391  | 97    | 37926    | 16.106    | ug/l   | 98       |
| 36) 1,1-Dichloropropene       | 5.550  | 75    | 11252    | 5.643     | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 5.678  | 117   | 1044     | 0.496     | ug/l # | 85       |
| 39) Methylcyclohexane         | 7.123  | 83    | 4388     | 1.842     | ug/l # | 1        |
| 44) Trichloroethene           | 7.129  | 130   | 343323   | 215.715   | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone      | 8.653  | 43    | 1249     | 0.650     | ug/l # | 1        |
| 55) 1,1,2-Trichloroethane     | 9.159  | 97    | 422      | 0.277     | ug/l # | 82       |
| 60) Dibromochloromethane      | 9.275  | 129   | 7172     | 4.601     | ug/l # | 11       |
| 64) Tetrachloroethene         | 9.275  | 164   | 6756     | 5.263     | ug/l   | 90       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 51577    | 28.893    | ug/l # | 45       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 51577    | 88.519    | ug/l # | 6        |
| -----                         |        |       |          |           |        |          |

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

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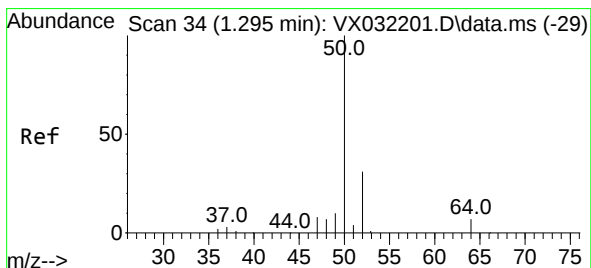
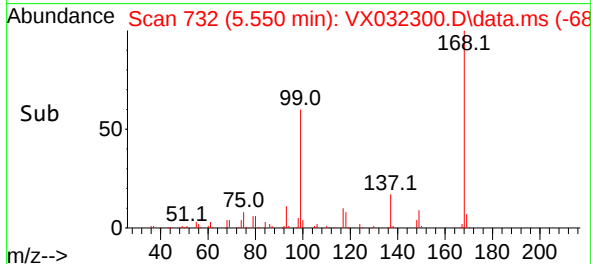
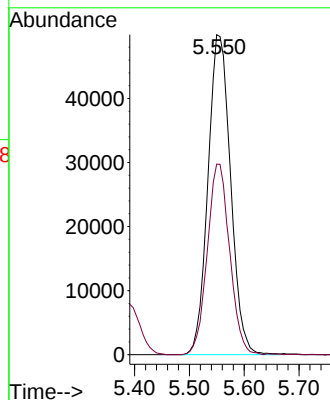
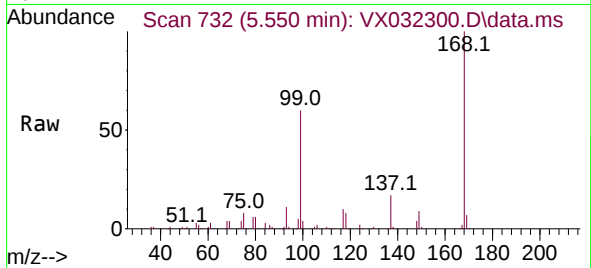




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: VX032300.D  
Acq: 21 Oct 2022 19:39

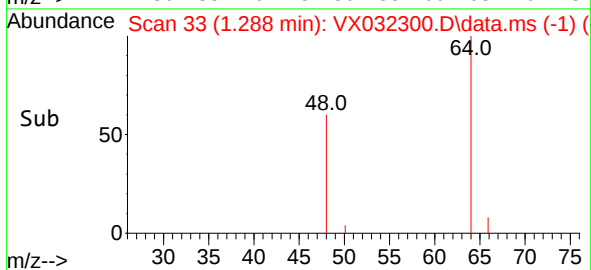
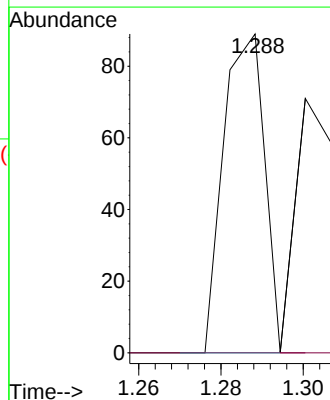
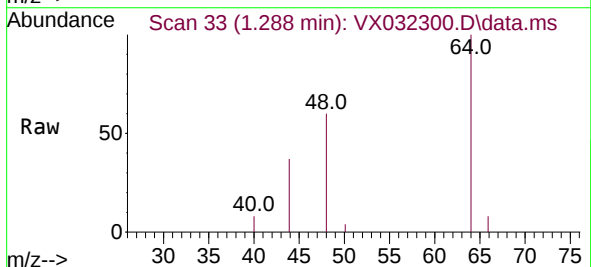
Instrument :  
MSVOA\_X  
ClientSampleId :  
FSND-GEP-2-20221018

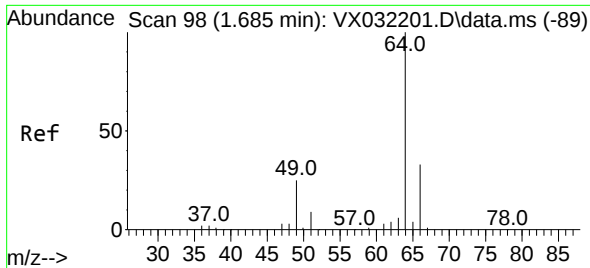
Tgt Ion:168 Resp: 143031  
Ion Ratio Lower Upper  
168 100  
99 59.6 44.8 67.2



#3  
Chloromethane  
Concen: Below Cal  
RT: 1.288 min Scan# 33  
Delta R.T. -0.007 min  
Lab File: VX032300.D  
Acq: 21 Oct 2022 19:39

Tgt Ion: 50 Resp: 61  
Ion Ratio Lower Upper  
50 100  
52 0.0 24.7 37.1#

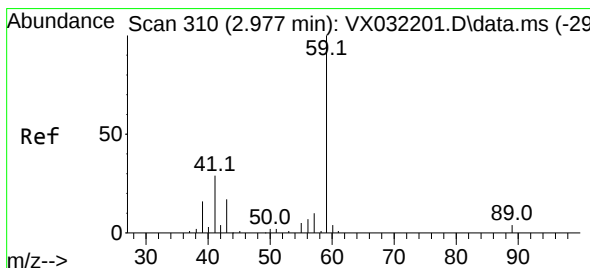
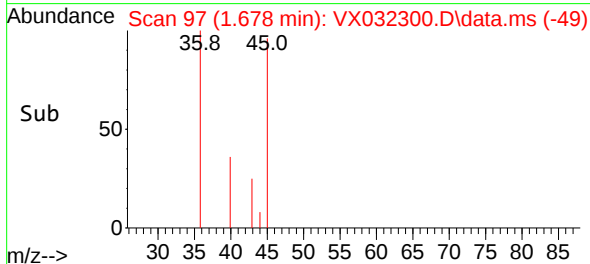
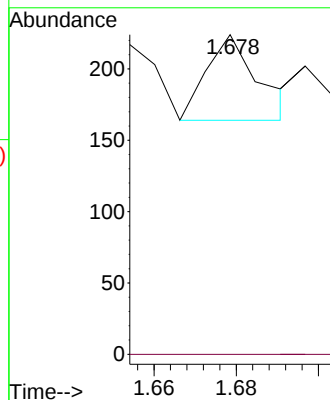
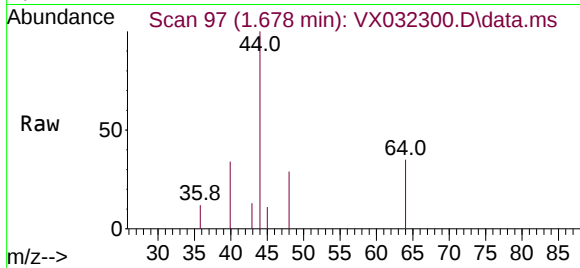




#6  
Chloroethane  
Concen: 1.988 ug/l  
RT: 1.678 min Scan# 91  
Delta R.T. -0.007 min  
Lab File: VX032300.D  
Acq: 21 Oct 2022 19:39

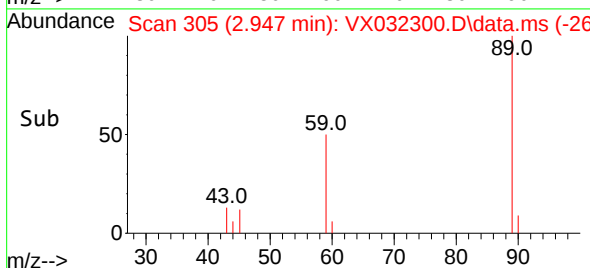
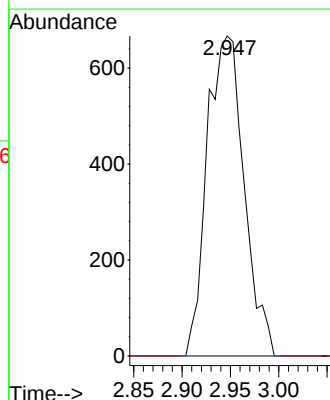
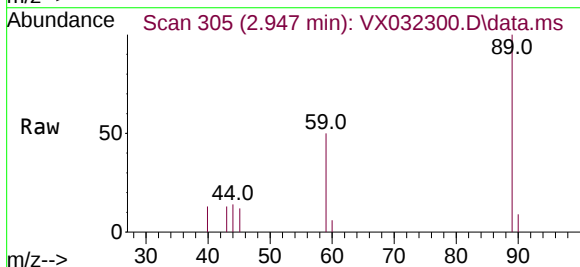
Instrument :  
MSVOA\_X  
ClientSampleId :  
FSND-GEP-2-20221018

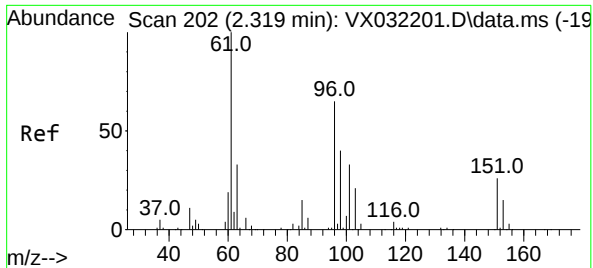
Tgt Ion: 64 Resp: 52  
Ion Ratio Lower Upper  
64 100  
66 0.0 26.6 39.8#



#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 2.947 min Scan# 305  
Delta R.T. -0.030 min  
Lab File: VX032300.D  
Acq: 21 Oct 2022 19:39

Tgt Ion: 59 Resp: 1775  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.5 11.3#





#12

1,1-Dichloroethene

Concen: 0.685 ug/l

RT: 2.319 min Scan# 202

Delta R.T. -0.000 min

Lab File: VX032300.D

Acq: 21 Oct 2022 19:39

Instrument :

MSVOA\_X

ClientSampleId :

FSND-GEP-2-20221018

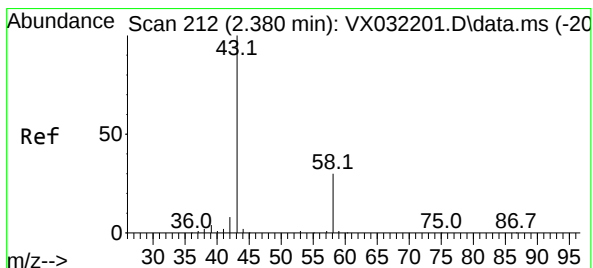
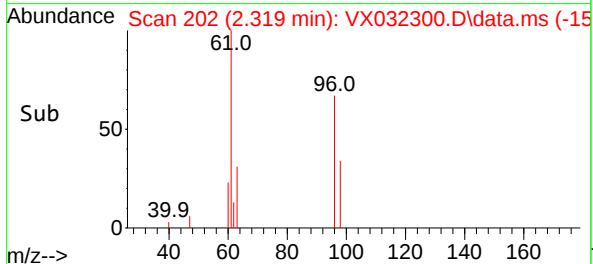
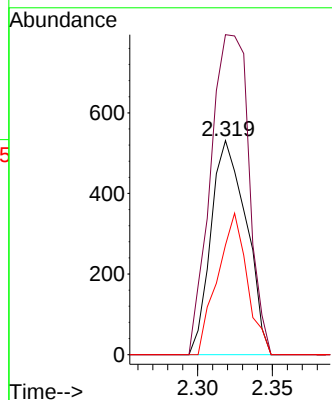
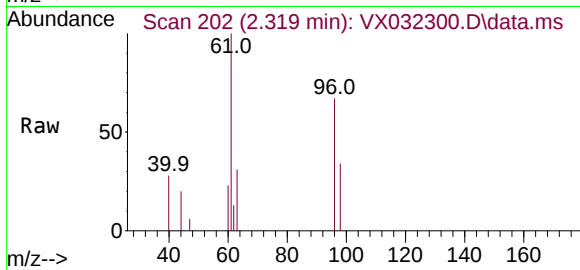
Tgt Ion: 96 Resp: 875

Ion Ratio Lower Upper

96 100

61 149.5 124.0 186.0

98 51.2 50.0 75.0



#16

Acetone

Concen: 1.737 ug/l

RT: 2.380 min Scan# 212

Delta R.T. -0.000 min

Lab File: VX032300.D

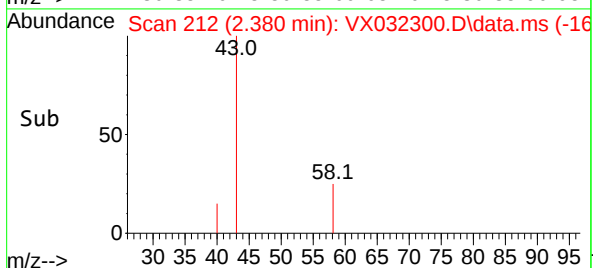
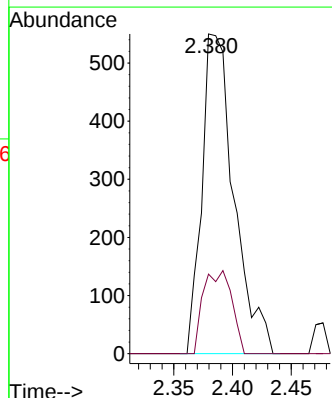
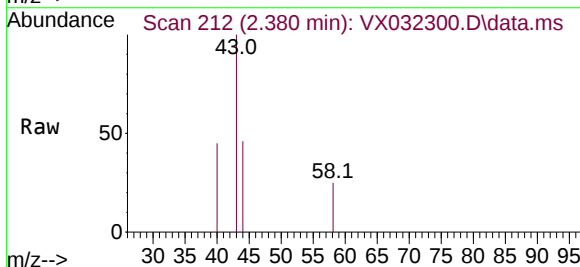
Acq: 21 Oct 2022 19:39

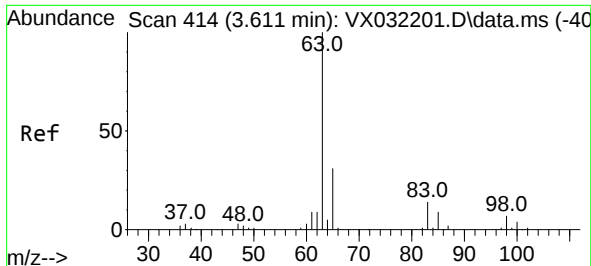
Tgt Ion: 43 Resp: 1049

Ion Ratio Lower Upper

43 100

58 24.9 24.2 36.2





#24

1,1-Dichloroethane

Concen: 0.462 ug/l

RT: 3.611 min Scan# 41

Delta R.T. 0.000 min

Lab File: VX032300.D

Acq: 21 Oct 2022 19:39

Instrument :

MSVOA\_X

ClientSampleId :

FSND-GEP-2-20221018

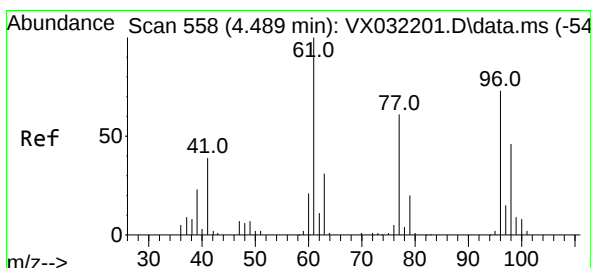
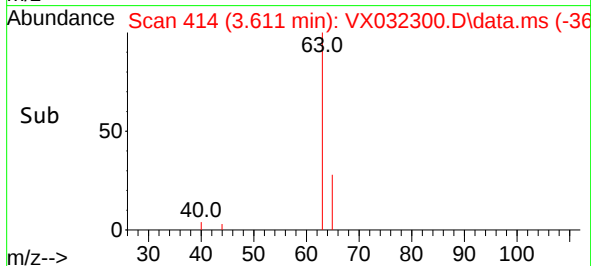
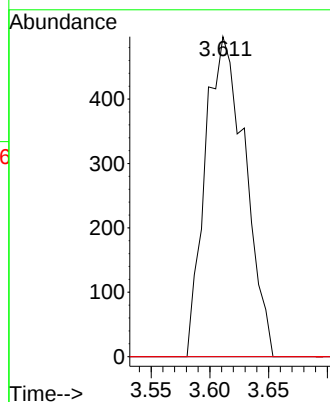
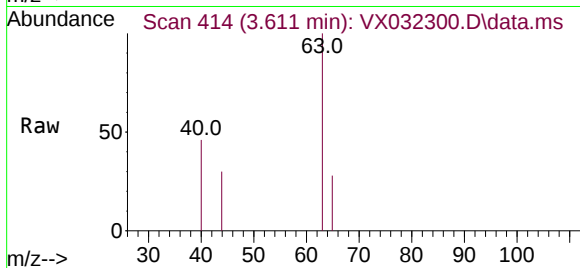
Tgt Ion: 63 Resp: 1173

Ion Ratio Lower Upper

63 100

98 0.0 3.6 10.9#

100 0.0 2.1 6.3#



#27

cis-1,2-Dichloroethene

Concen: 1.808 ug/l

RT: 4.489 min Scan# 558

Delta R.T. -0.000 min

Lab File: VX032300.D

Acq: 21 Oct 2022 19:39

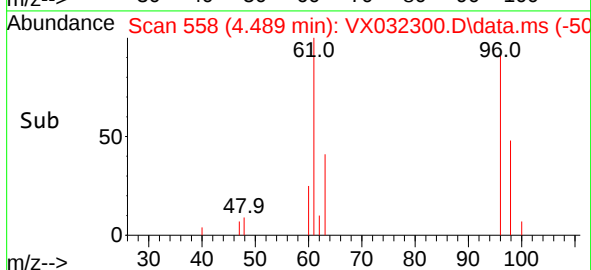
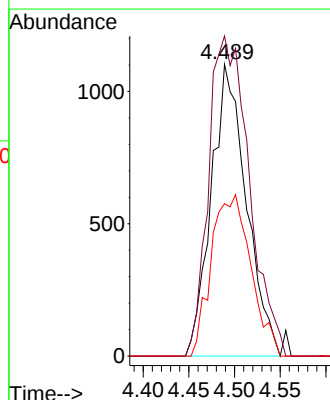
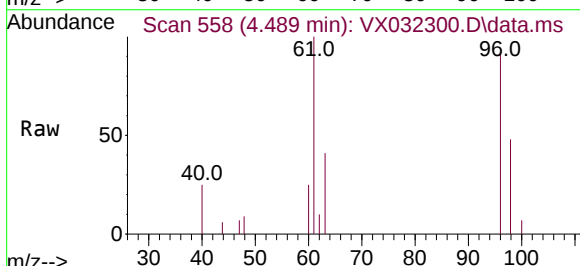
Tgt Ion: 96 Resp: 2943

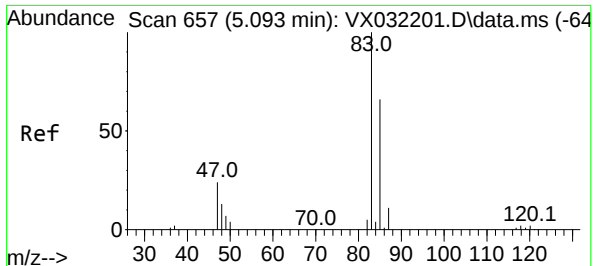
Ion Ratio Lower Upper

96 100

61 126.9 0.0 279.2

98 62.2 0.0 128.0





#30

Chloroform

Concen: 0.773 ug/l

RT: 5.105 min Scan# 61

Delta R.T. 0.012 min

Lab File: VX032300.D

Acq: 21 Oct 2022 19:39

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MSVOA\_X

ClientSampleId :

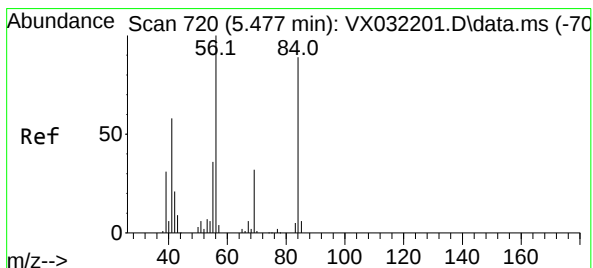
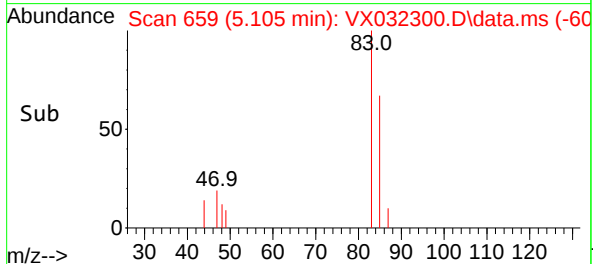
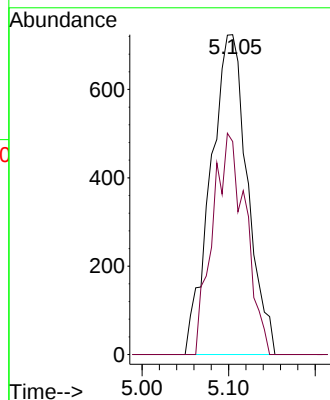
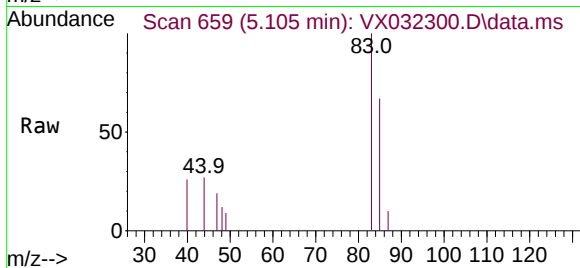
FSND-GEP-2-20221018

Tgt Ion: 83 Resp: 2134

Ion Ratio Lower Upper

83 100

85 66.6 52.5 78.7



#31

Cyclohexane

Concen: 1.530 ug/l

RT: 5.550 min Scan# 732

Delta R.T. 0.073 min

Lab File: VX032300.D

Acq: 21 Oct 2022 19:39

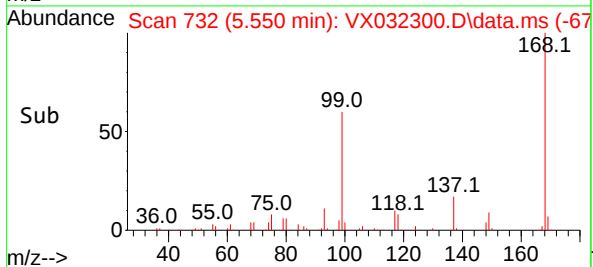
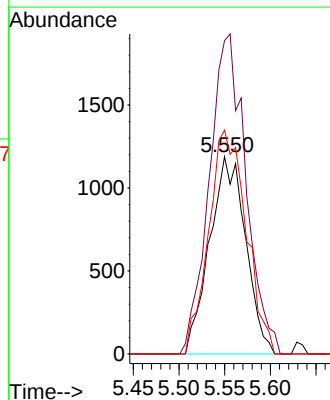
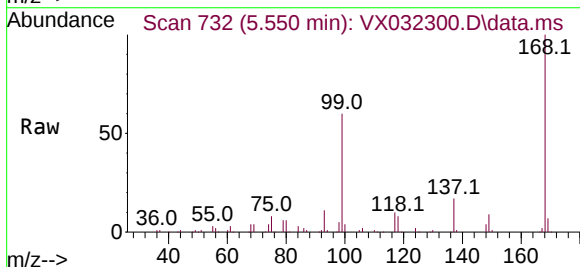
Tgt Ion: 56 Resp: 3254

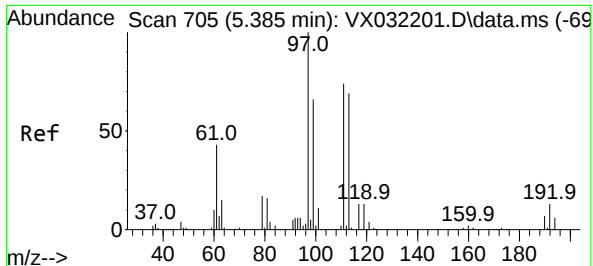
Ion Ratio Lower Upper

56 100

69 158.8 25.4 38.0#

84 113.5 71.2 106.8#

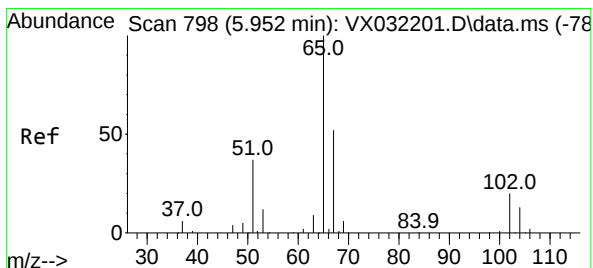
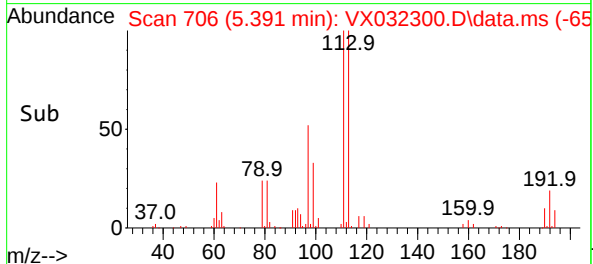
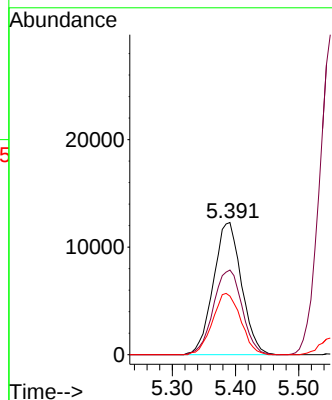
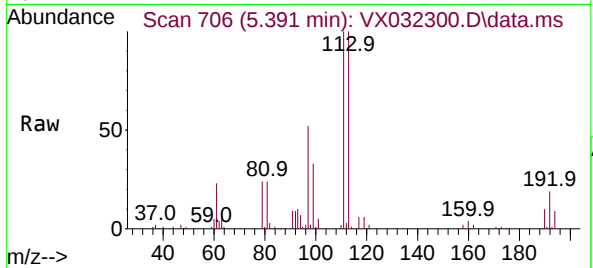




#32  
1,1,1-Trichloroethane  
Concen: 16.106 ug/l  
RT: 5.391 min Scan# 705  
Delta R.T. 0.006 min  
Lab File: VX032300.D  
Acq: 21 Oct 2022 19:39

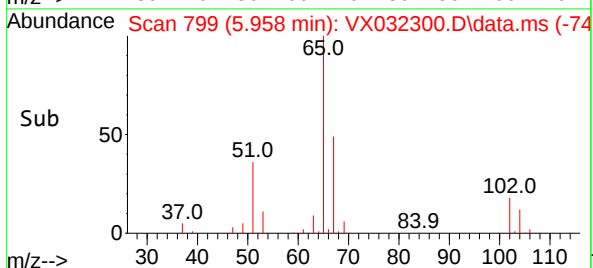
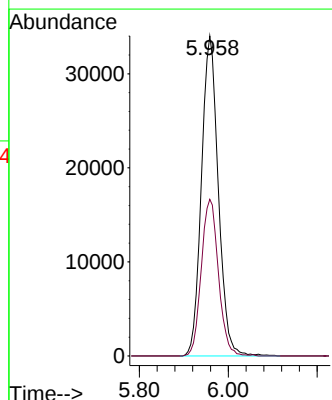
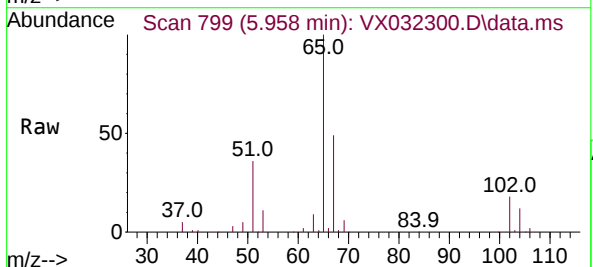
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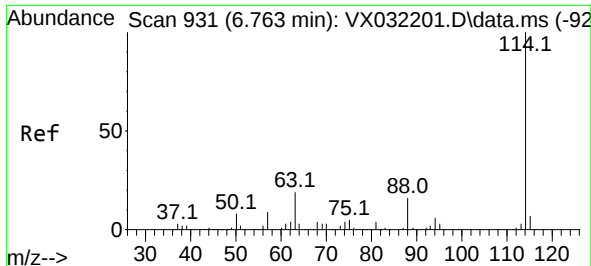
Tgt Ion: 97 Resp: 37926  
Ion Ratio Lower Upper  
97 100  
99 65.4 51.8 77.8  
61 46.4 35.7 53.5



#33  
1,2-Dichloroethane-d4  
Concen: 48.353 ug/l  
RT: 5.958 min Scan# 799  
Delta R.T. 0.006 min  
Lab File: VX032300.D  
Acq: 21 Oct 2022 19:39

Tgt Ion: 65 Resp: 89970  
Ion Ratio Lower Upper  
65 100  
67 49.8 0.0 103.6

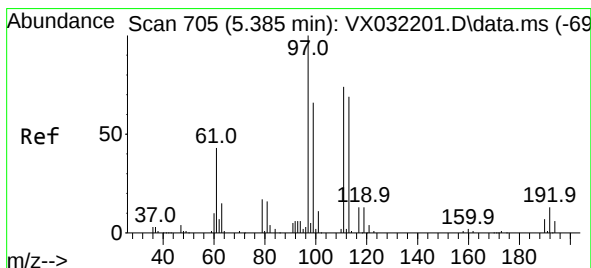
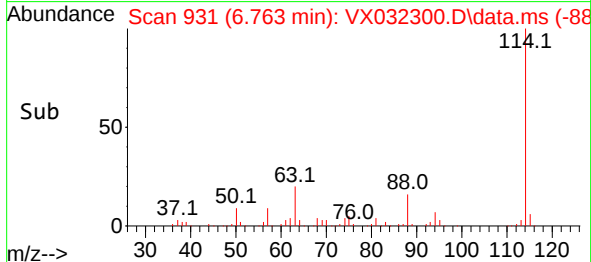
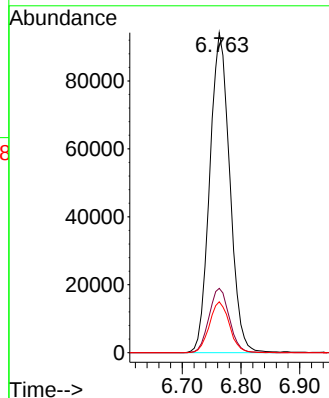
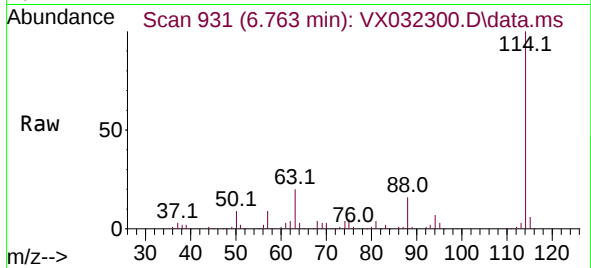




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.763 min Scan# 911  
Delta R.T. -0.000 min  
Lab File: VX032300.D  
Acq: 21 Oct 2022 19:39

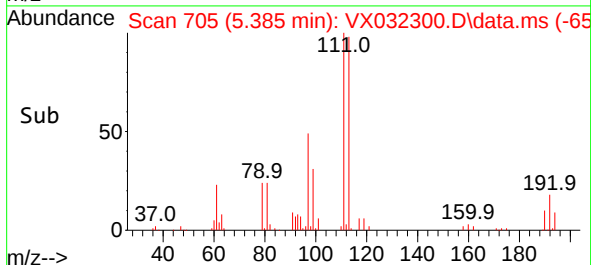
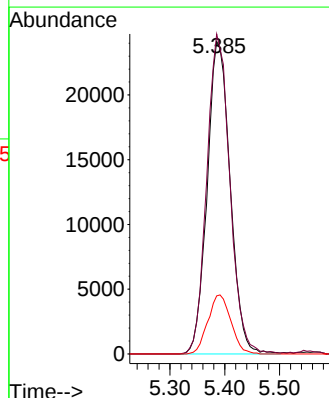
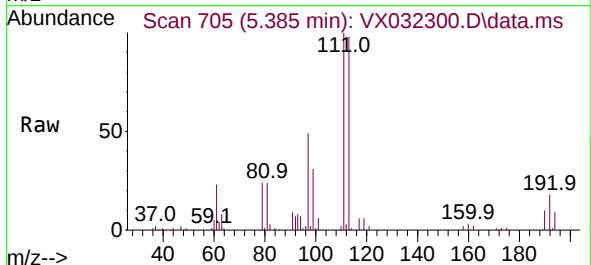
Instrument :  
MSVOA\_X  
ClientSampleId :  
FSND-GEP-2-20221018

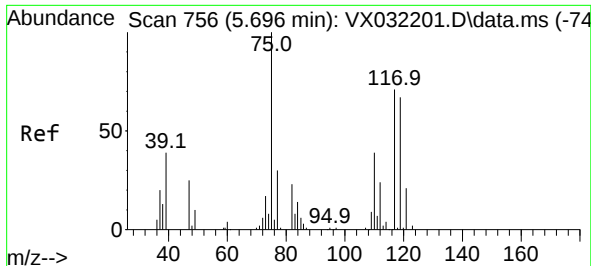
Tgt Ion:114 Resp: 222774  
Ion Ratio Lower Upper  
114 100  
63 20.1 0.0 38.6  
88 15.9 0.0 32.6



#35  
Dibromofluoromethane  
Concen: 45.439 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. 0.000 min  
Lab File: VX032300.D  
Acq: 21 Oct 2022 19:39

Tgt Ion:113 Resp: 70440  
Ion Ratio Lower Upper  
113 100  
111 102.8 82.8 124.2  
192 18.9 15.5 23.3





#36

1,1-Dichloropropene

Concen: 5.643 ug/l

RT: 5.550 min Scan# 71

Delta R.T. -0.146 min

Lab File: VX032300.D

Acq: 21 Oct 2022 19:39

Instrument :

MSVOA\_X

ClientSampleId :

FSND-GEP-2-20221018

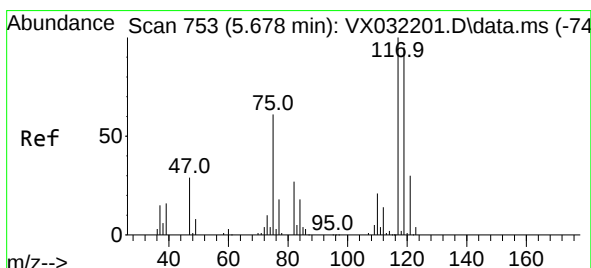
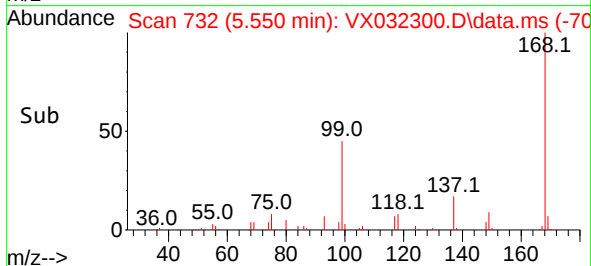
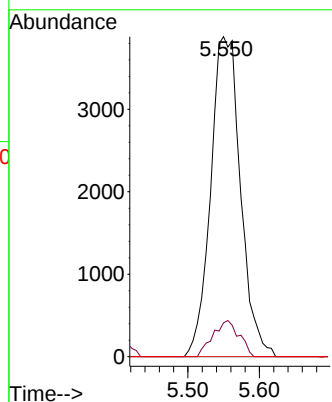
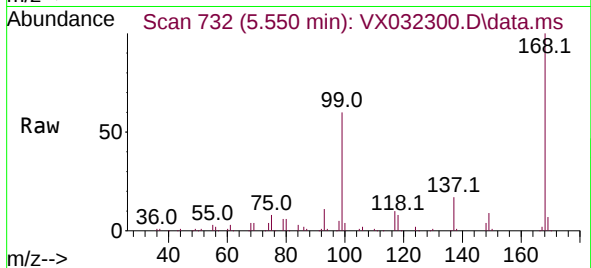
Tgt Ion: 75 Resp: 11252

Ion Ratio Lower Upper

75 100

110 9.9 18.4 55.0#

77 0.0 24.7 37.1#



#38

Carbon Tetrachloride

Concen: 0.496 ug/l

RT: 5.678 min Scan# 753

Delta R.T. -0.000 min

Lab File: VX032300.D

Acq: 21 Oct 2022 19:39

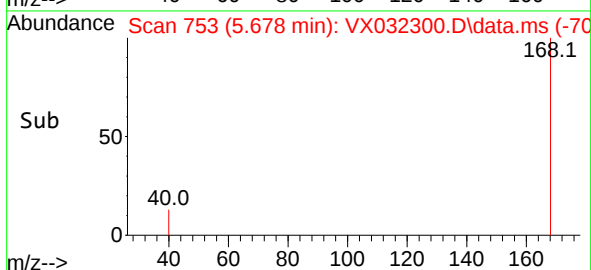
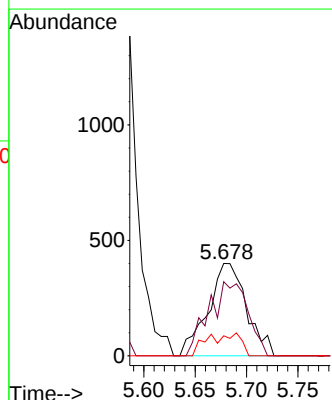
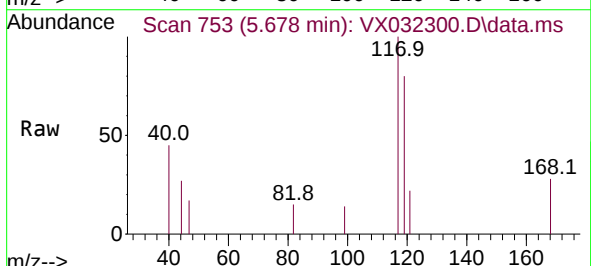
Tgt Ion: 117 Resp: 1044

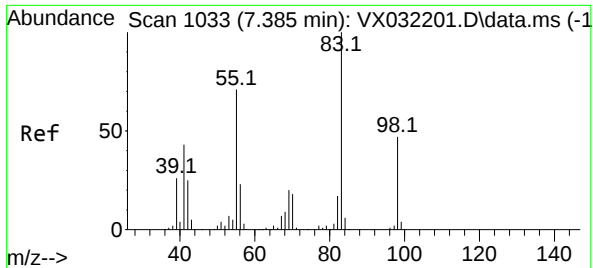
Ion Ratio Lower Upper

117 100

119 80.3 75.4 113.0

121 21.8 23.9 35.9#

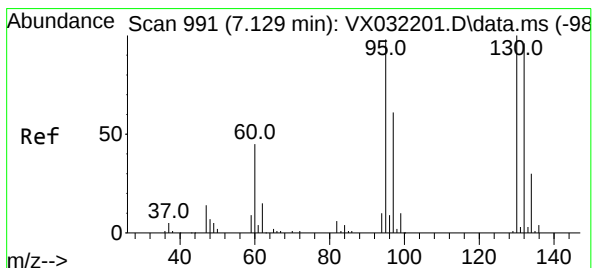
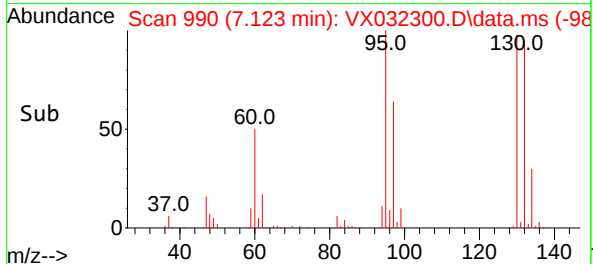
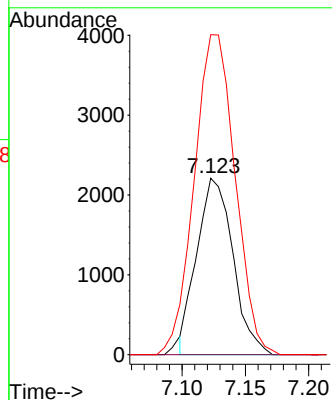
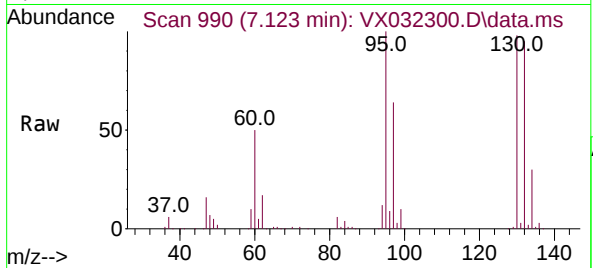




#39  
Methylcyclohexane  
Concen: 1.842 ug/l  
RT: 7.123 min Scan# 990  
Delta R.T. -0.262 min  
Lab File: VX032300.D  
Acq: 21 Oct 2022 19:39

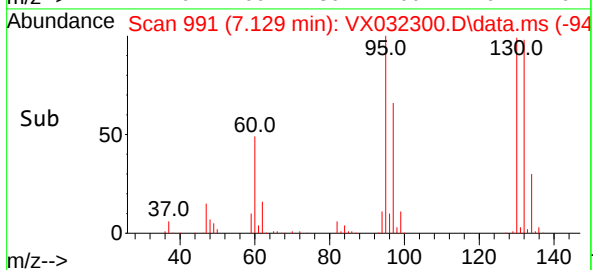
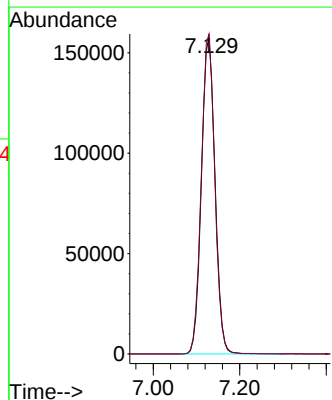
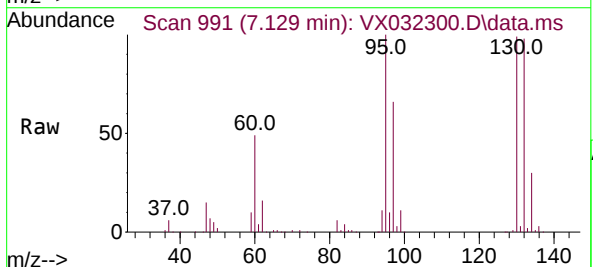
Instrument :  
MSVOA\_X  
ClientSampleId :  
FSND-GEP-2-20221018

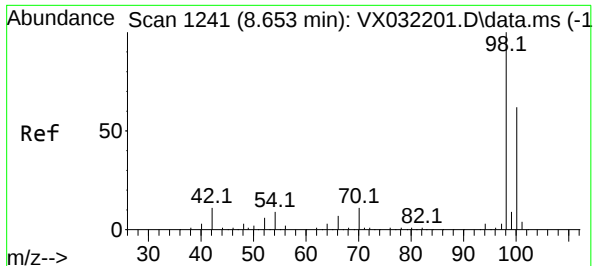
Tgt Ion: 83 Resp: 4388  
Ion Ratio Lower Upper  
83 100  
55 0.0 56.6 85.0#  
98 181.3 37.4 56.0#



#44  
Trichloroethene  
Concen: 215.715 ug/l  
RT: 7.129 min Scan# 991  
Delta R.T. -0.000 min  
Lab File: VX032300.D  
Acq: 21 Oct 2022 19:39

Tgt Ion:130 Resp: 343323  
Ion Ratio Lower Upper  
130 100  
95 100.9 0.0 196.8





#50

Toluene-d8

Concen: 46.766 ug/l

RT: 8.647 min Scan# 1241

Delta R.T. -0.006 min

Lab File: VX032300.D

Acq: 21 Oct 2022 19:39

Instrument :

MSVOA\_X

ClientSampleId :

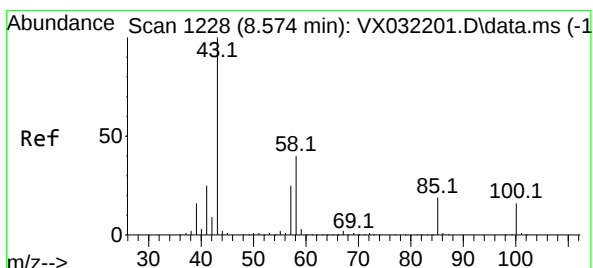
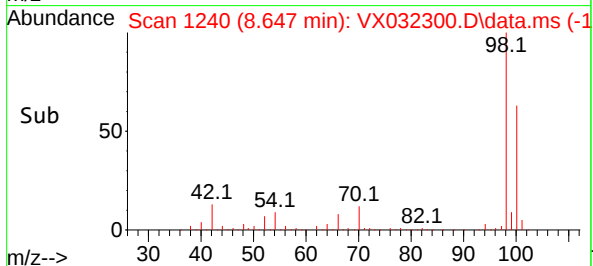
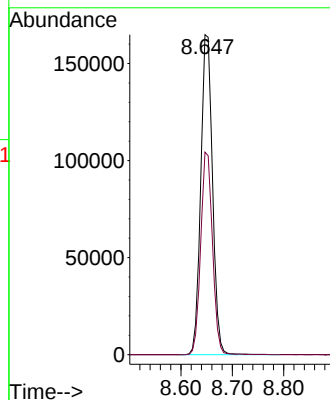
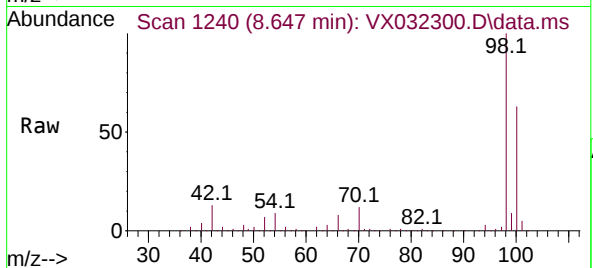
FSND-GEP-2-20221018

Tgt Ion: 98 Resp: 260969

Ion Ratio Lower Upper

98 100

100 63.3 50.7 76.1



#51

4-Methyl-2-Pentanone

Concen: 0.650 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. 0.079 min

Lab File: VX032300.D

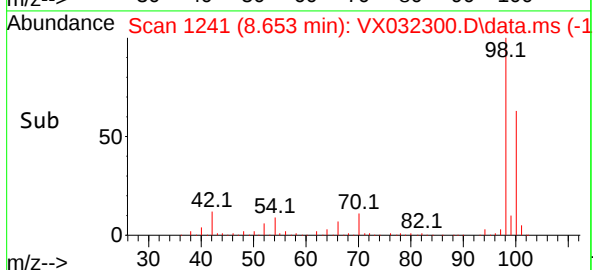
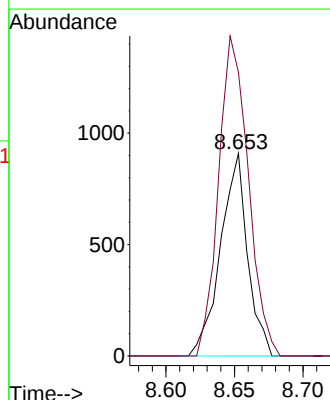
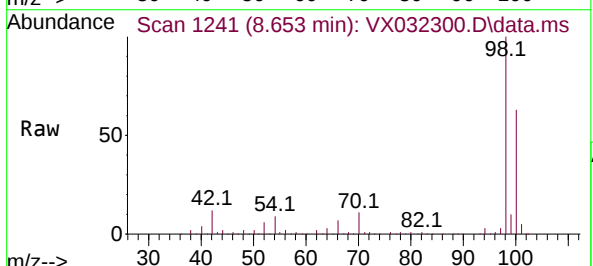
Acq: 21 Oct 2022 19:39

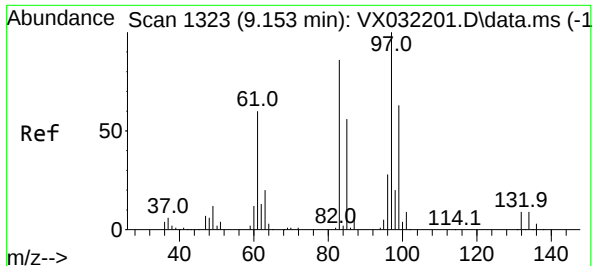
Tgt Ion: 43 Resp: 1249

Ion Ratio Lower Upper

43 100

58 173.4 31.0 46.4#

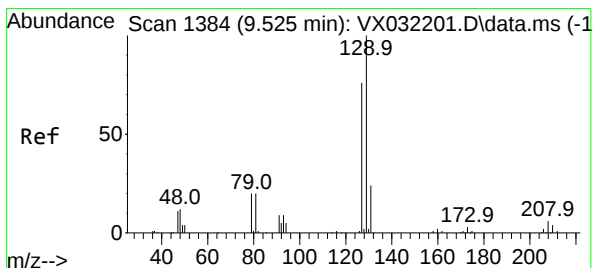
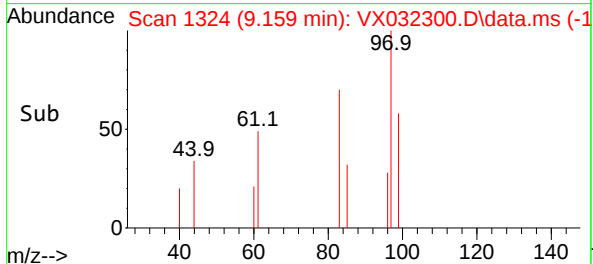
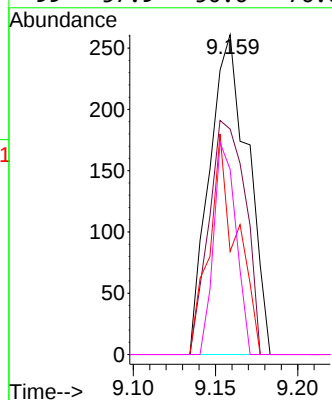
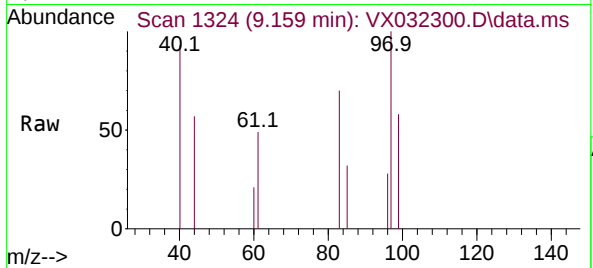




#55  
1,1,2-Trichloroethane  
Concen: 0.277 ug/l  
RT: 9.159 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VX032300.D  
Acq: 21 Oct 2022 19:39

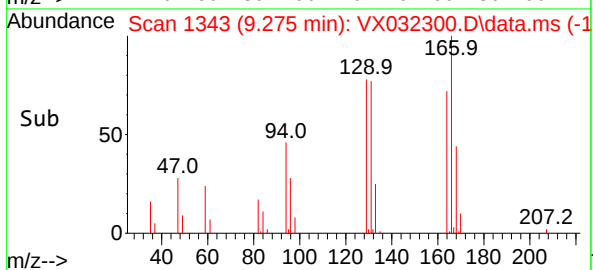
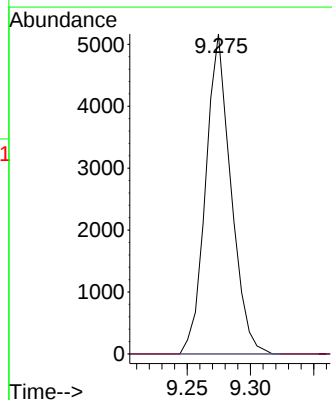
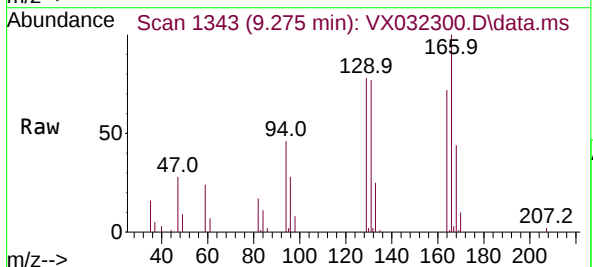
Instrument :  
MSVOA\_X  
ClientSampleId :  
FSND-GEP-2-20221018

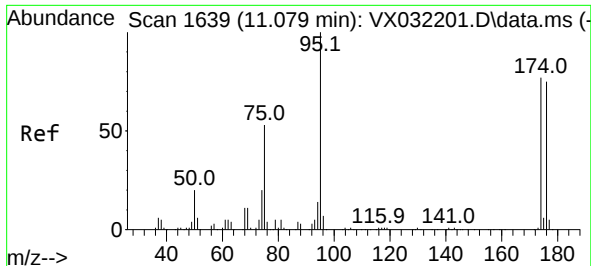
|             |             |
|-------------|-------------|
| Tgt Ion: 97 | Resp: 422   |
| Ion Ratio   | Lower Upper |
| 97 100      |             |
| 83 70.5     | 68.8 103.2  |
| 85 32.2     | 44.7 67.1#  |
| 99 57.9     | 50.6 76.0   |



#60  
Dibromochloromethane  
Concen: 4.601 ug/l  
RT: 9.275 min Scan# 1343  
Delta R.T. -0.250 min  
Lab File: VX032300.D  
Acq: 21 Oct 2022 19:39

|             |       |       |        |
|-------------|-------|-------|--------|
| Tgt Ion:129 | Resp: | 7172  |        |
| Ion         | Ratio | Lower | Upper  |
| 129         | 100   |       |        |
| 127         | 0.0   | 38.4  | 115.2# |





#62

4-Bromofluorobenzene

Concen: 45.553 ug/l

RT: 11.079 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX032300.D

Acq: 21 Oct 2022 19:39

Instrument :

MSVOA\_X

ClientSampleId :

FSND-GEP-2-20221018

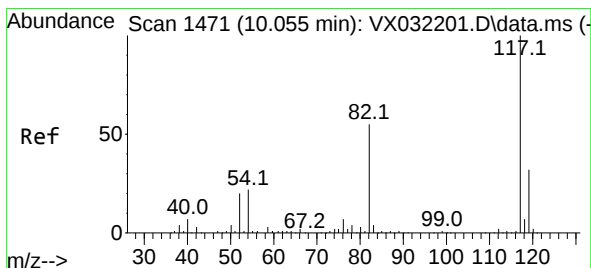
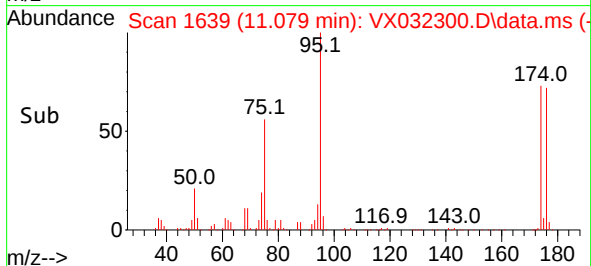
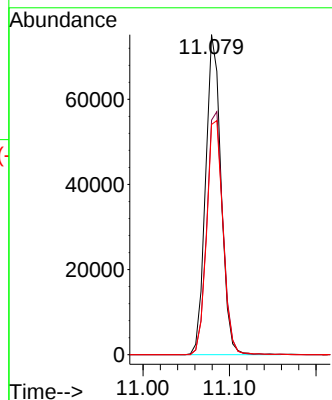
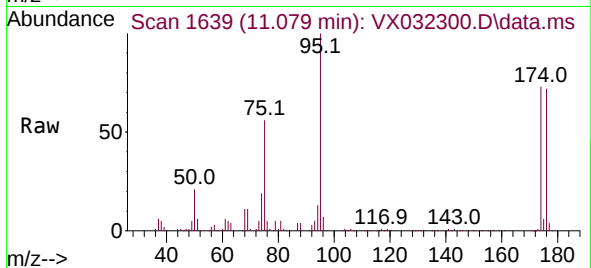
Tgt Ion: 95 Resp: 93083

Ion Ratio Lower Upper

95 100

174 79.5 0.0 166.8

176 77.4 0.0 161.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX032300.D

Acq: 21 Oct 2022 19:39

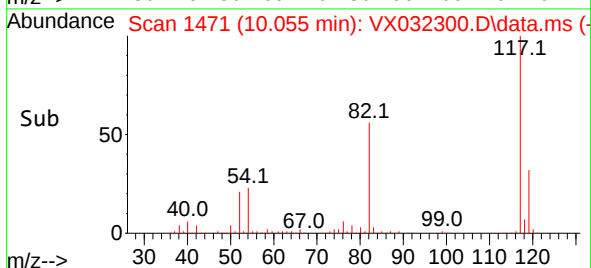
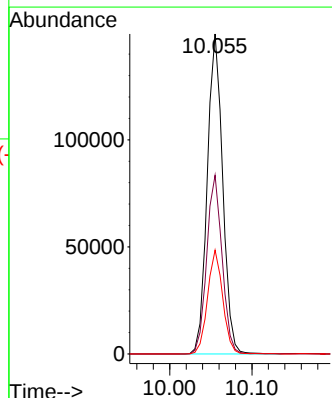
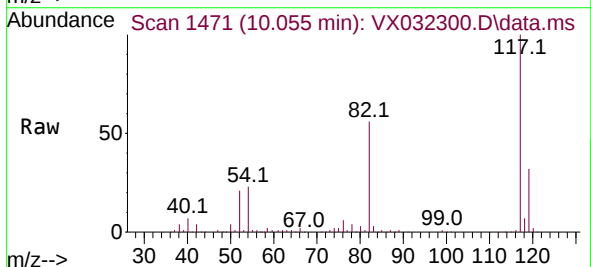
Tgt Ion: 117 Resp: 194414

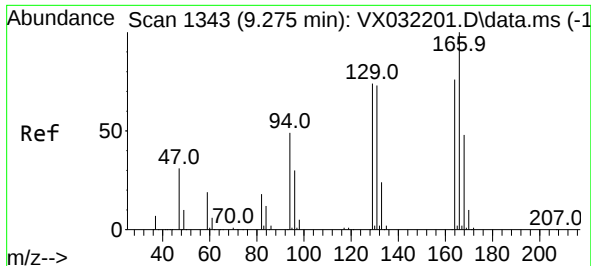
Ion Ratio Lower Upper

117 100

82 55.8 44.2 66.4

119 32.4 25.8 38.8



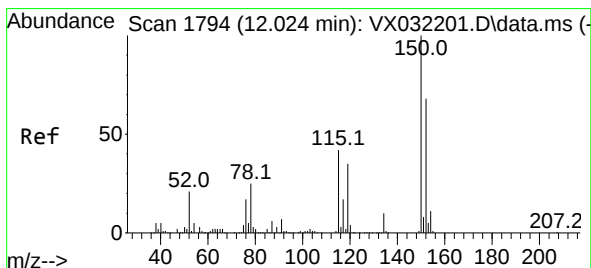
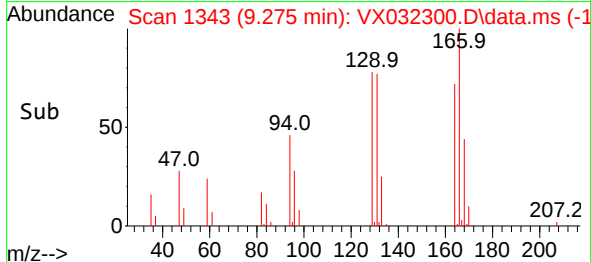
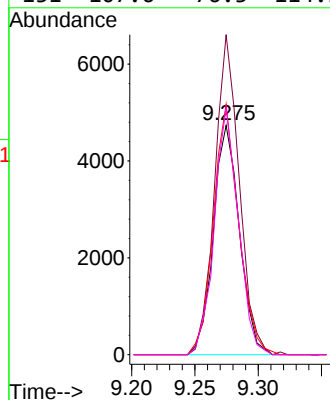
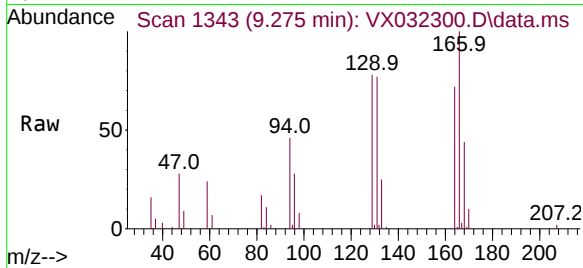


#64  
Tetrachloroethene  
Concen: 5.263 ug/l  
RT: 9.275 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX032300.D  
Acq: 21 Oct 2022 19:39

Instrument :  
MSVOA\_X  
ClientSampleId :  
FSND-GEP-2-20221018

Tgt Ion:164 Resp: 6756

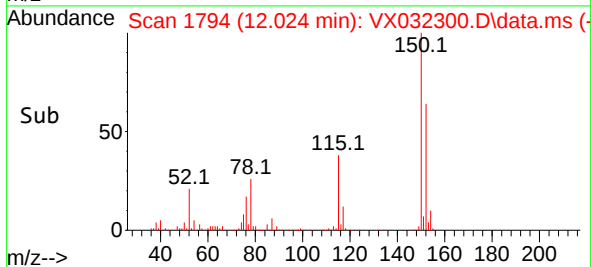
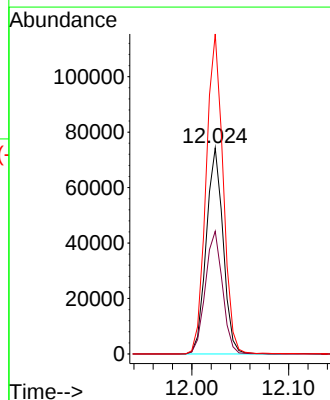
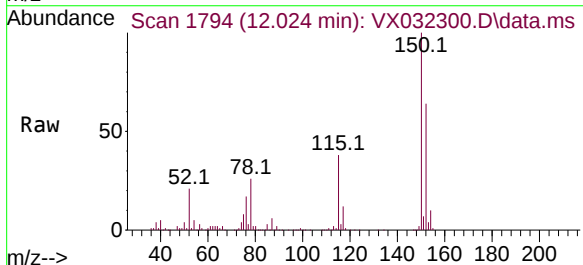
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 166 | 139.5 | 104.9 | 157.3 |
| 129 | 109.1 | 77.8  | 116.6 |
| 131 | 107.6 | 76.3  | 114.5 |

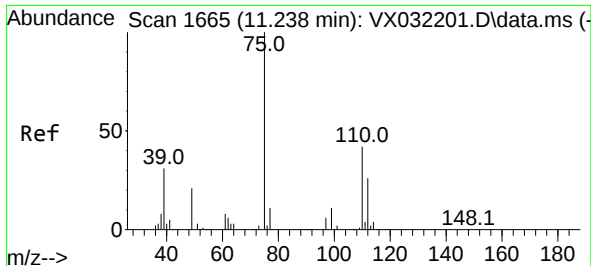


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX032300.D  
Acq: 21 Oct 2022 19:39

Tgt Ion:152 Resp: 90093

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 152 | 100   |       |       |
| 115 | 60.7  | 43.1  | 129.4 |
| 150 | 157.0 | 0.0   | 348.6 |

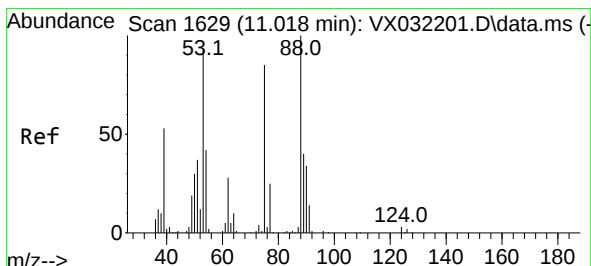
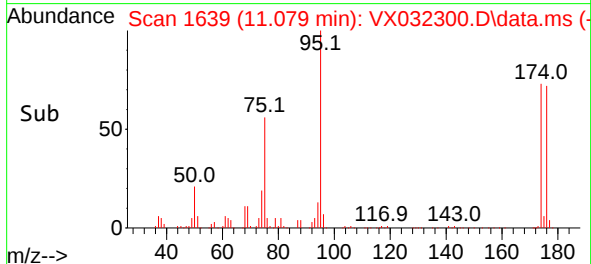
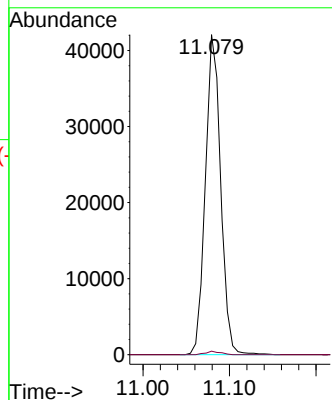
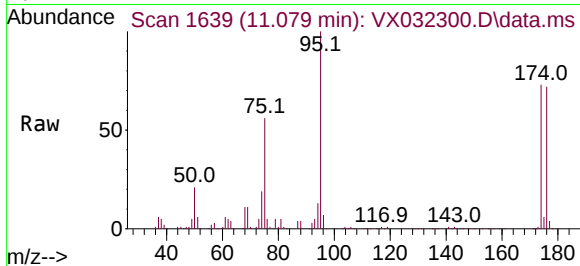




#76  
1,2,3-Trichloropropane  
Concen: 28.893 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.159 min  
Lab File: VX032300.D  
Acq: 21 Oct 2022 19:39

Instrument :  
MSVOA\_X  
ClientSampleId :  
FSND-GEP-2-20221018

Tgt Ion: 75 Resp: 51577  
Ion Ratio Lower Upper  
75 100  
77 1.0 16.0 47.9#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 88.519 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX032300.D  
Acq: 21 Oct 2022 19:39

Tgt Ion: 75 Resp: 51577  
Ion Ratio Lower Upper  
75 100  
53 0.0 87.8 131.8#  
89 0.0 37.8 56.8#

