

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX112224\  
 Data File : VX043968.D  
 Acq On : 22 Nov 2024 18:25  
 Operator : JC/MD  
 Sample : P4846-16  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 FSND-MW-EVAL-01D-20241113

Quant Time: Nov 22 22:28:11 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X112124W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Nov 22 03:45:52 2024  
 Response via : Initial Calibration

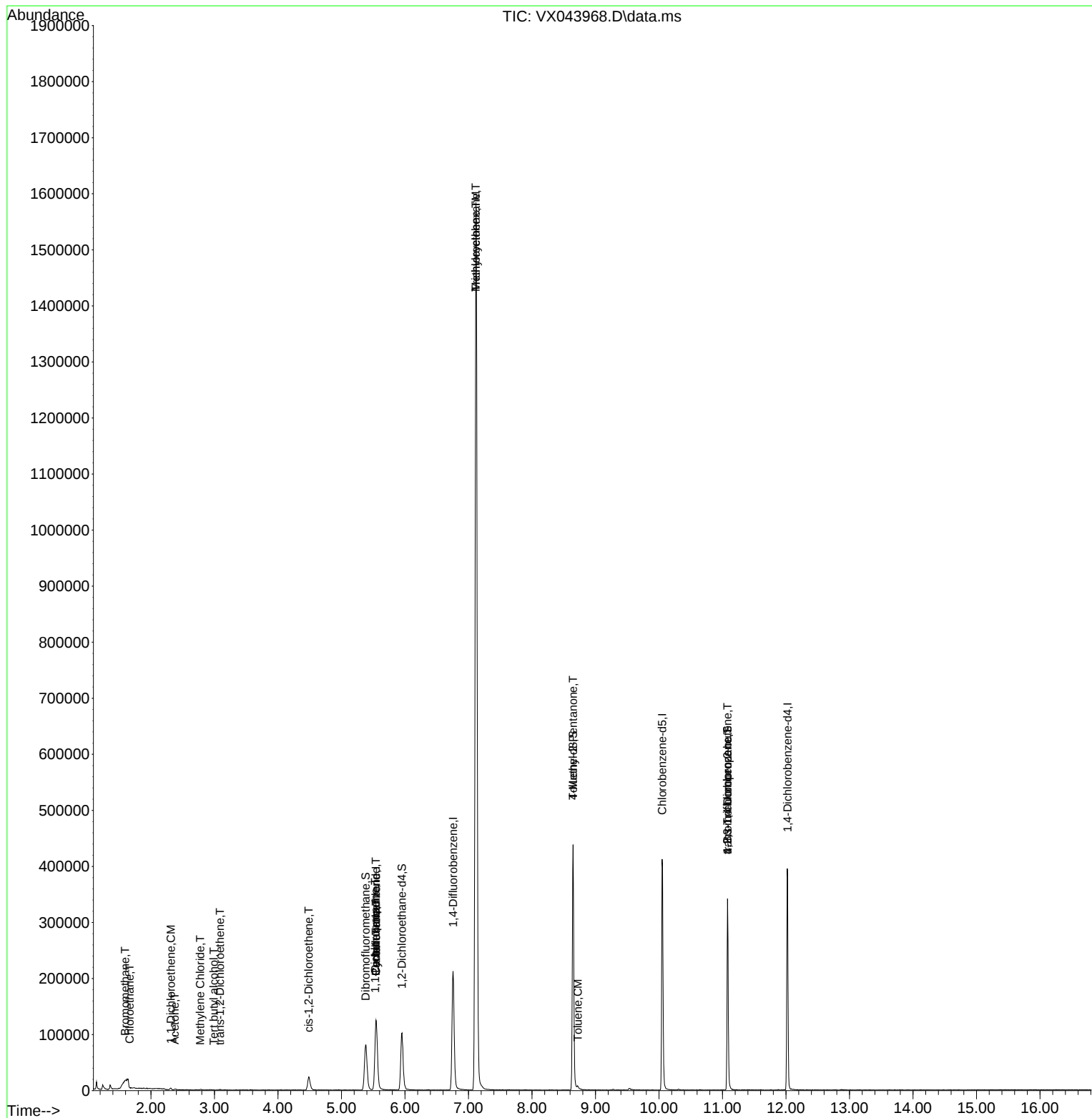
| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| -----                         |        |       |          |          |            |          |
| Internal Standards            |        |       |          |          |            |          |
| 1) Pentafluorobenzene         | 5.544  | 168   | 108343   | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.757  | 114   | 213438   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 10.049 | 117   | 185232   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 77833    | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4     | 5.952  | 65    | 97377    | 52.402   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery | = 104.800% |          |
| 35) Dibromofluoromethane      | 5.379  | 113   | 69840    | 45.793   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | = 91.580%  |          |
| 50) Toluene-d8                | 8.647  | 98    | 260832   | 49.614   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery | = 99.220%  |          |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 87967    | 49.166   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 77 - 121 | Recovery | = 98.340%  |          |
| Target Compounds              |        |       |          |          |            |          |
|                               |        |       |          |          | Qvalue     |          |
| 5) Bromomethane               | 1.593  | 94    | 540      | 0.571    | ug/l #     | 37       |
| 6) Chloroethane               | 1.666  | 64    | 252      | 0.269    | ug/l #     | 42       |
| 11) Tert butyl alcohol        | 2.989  | 59    | 119      | 0.399    | ug/l #     | 73       |
| 12) 1,1-Dichloroethene        | 2.313  | 96    | 850      | 0.681    | ug/l       | 89       |
| 16) Acetone                   | 2.374  | 43    | 1472     | 1.725    | ug/l #     | 85       |
| 20) Methylene Chloride        | 2.776  | 84    | 506      | 0.349    | ug/l #     | 70       |
| 21) trans-1,2-Dichloroethene  | 3.087  | 96    | 423      | 0.328    | ug/l #     | 81       |
| 27) cis-1,2-Dichloroethene    | 4.483  | 96    | 14439    | 9.063    | ug/l       | 88       |
| 31) Cyclohexane               | 5.544  | 56    | 3203     | 1.547    | ug/l #     | 36       |
| 36) 1,1-Dichloropropene       | 5.532  | 75    | 10211    | 5.373    | ug/l #     | 51       |
| 38) Carbon Tetrachloride      | 5.544  | 117   | 13119    | 6.143    | ug/l #     | 17       |
| 39) Methylcyclohexane         | 7.117  | 83    | 7691     | 3.115    | ug/l #     | 1        |
| 44) Trichloroethene           | 7.117  | 130   | 571405   | 340.966  | ug/l       | 97       |
| 51) 4-Methyl-2-Pentanone      | 8.647  | 43    | 1492     | 0.651    | ug/l #     | 1        |
| 52) Toluene                   | 8.720  | 92    | 1801     | 0.508    | ug/l       | 94       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 49584    | 29.050   | ug/l #     | 34       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 49584    | 79.270   | ug/l #     | 6        |
| -----                         |        |       |          |          |            |          |

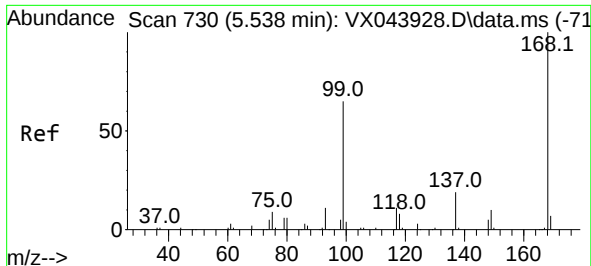
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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FSND-MW-EVAL-01D-20241113

Quant Time: Nov 22 22:28:11 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X112124W.M  
Quant Title : SW846 8260  
QLast Update : Fri Nov 22 03:45:52 2024  
Response via : Initial Calibration

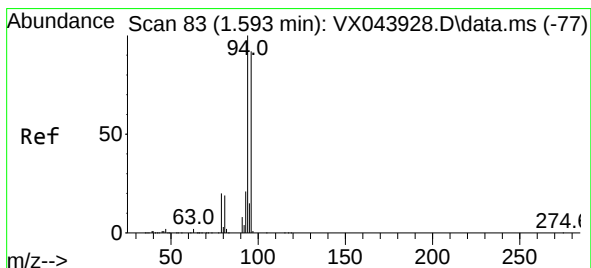
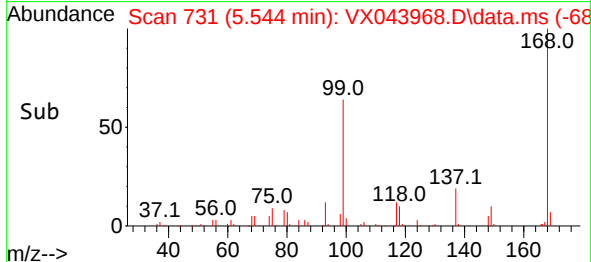
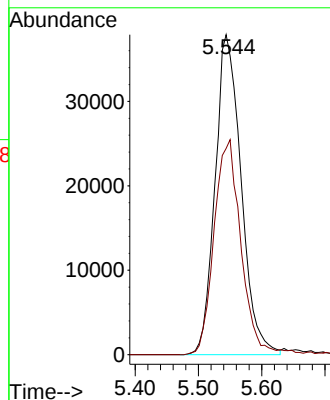
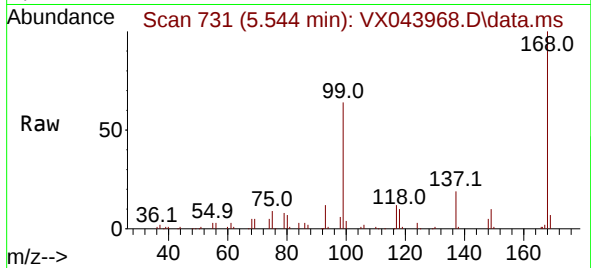




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.544 min Scan# 71  
Delta R.T. 0.006 min  
Lab File: VX043968.D  
Acq: 22 Nov 2024 18:25

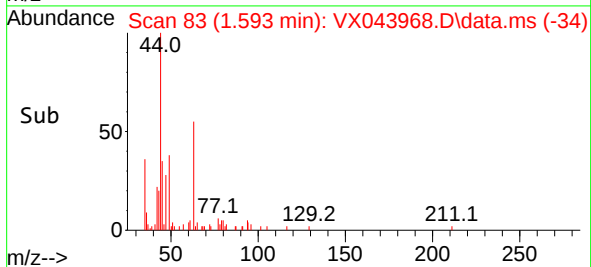
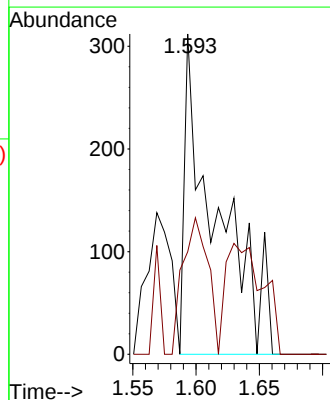
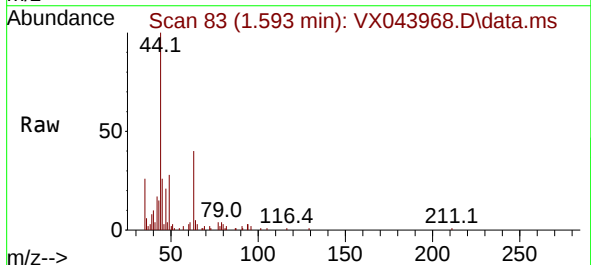
Instrument :  
MSVOA\_X  
ClientSampleId :  
FSND-MW-EVAL-01D-20241113

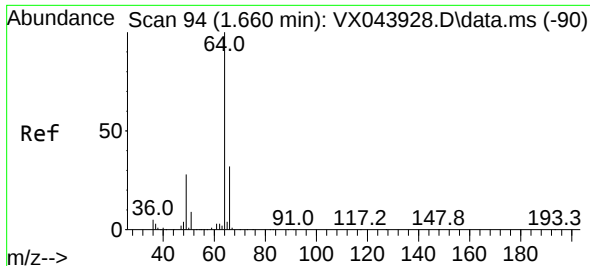
Tgt Ion:168 Resp: 108343  
Ion Ratio Lower Upper  
168 100  
99 64.5 51.8 77.8



#5  
Bromomethane  
Concen: 0.571 ug/l  
RT: 1.593 min Scan# 83  
Delta R.T. 0.000 min  
Lab File: VX043968.D  
Acq: 22 Nov 2024 18:25

Tgt Ion: 94 Resp: 540  
Ion Ratio Lower Upper  
94 100  
96 32.1 73.9 110.9#

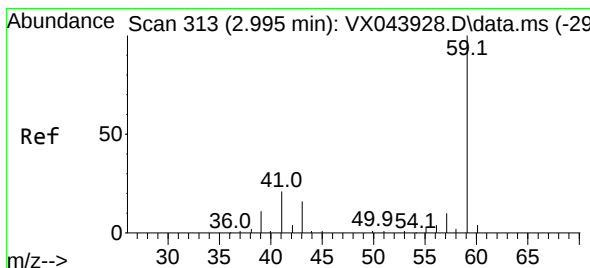
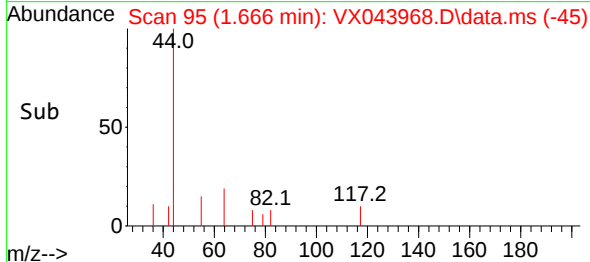
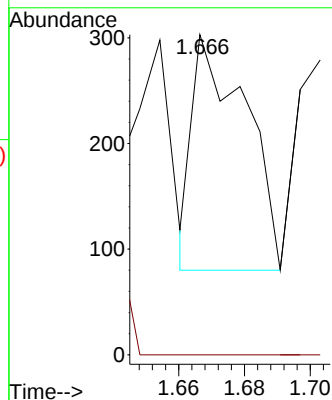
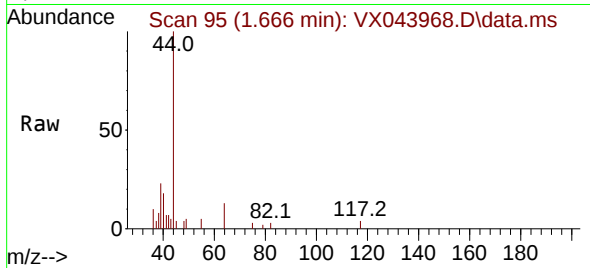




#6  
Chloroethane  
Concen: 0.269 ug/l  
RT: 1.666 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VX043968.D  
Acq: 22 Nov 2024 18:25

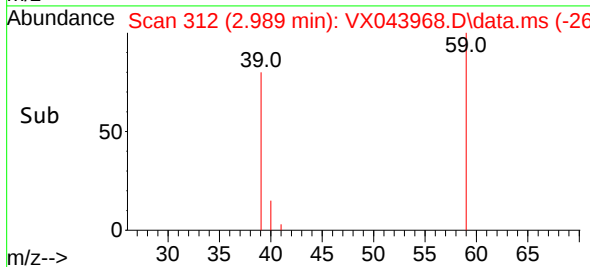
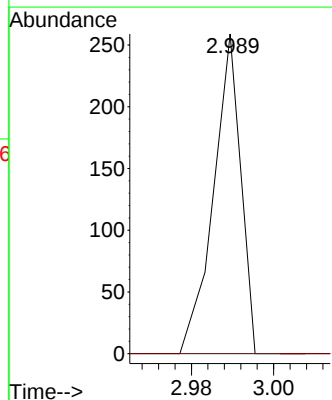
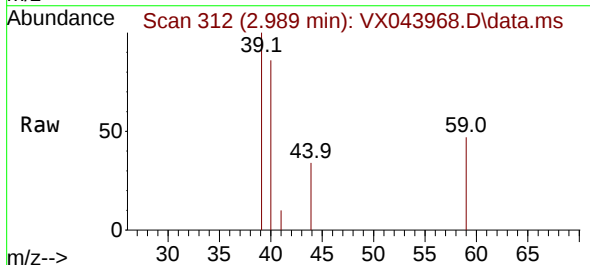
Instrument :  
MSVOA\_X  
ClientSampleId :  
FSND-MW-EVAL-01D-20241113

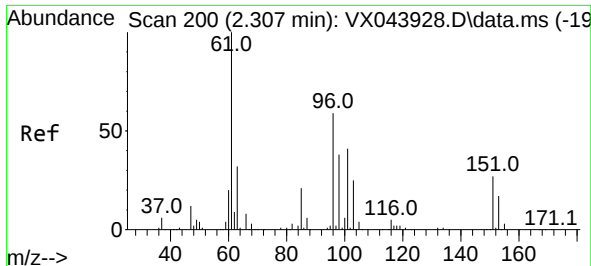
Tgt Ion: 64 Resp: 252  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.9 38.9#



#11  
Tert butyl alcohol  
Concen: 0.399 ug/l  
RT: 2.989 min Scan# 312  
Delta R.T. -0.006 min  
Lab File: VX043968.D  
Acq: 22 Nov 2024 18:25

Tgt Ion: 59 Resp: 119  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.9 11.9#





#12

1,1-Dichloroethene

Concen: 0.681 ug/l

RT: 2.313 min Scan# 20

Delta R.T. 0.006 min

Lab File: VX043968.D

Acq: 22 Nov 2024 18:25

Instrument :

MSVOA\_X

ClientSampleId :

FSND-MW-EVAL-01D-20241113

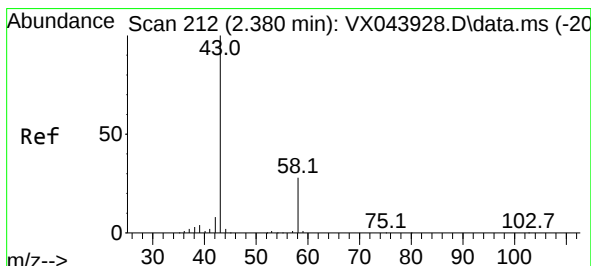
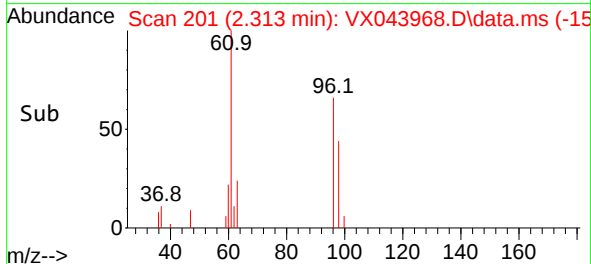
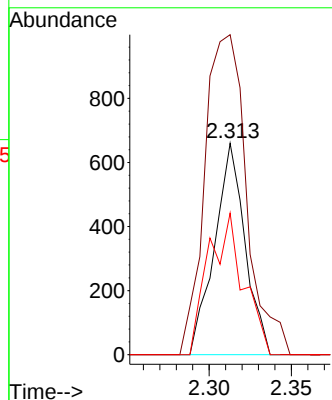
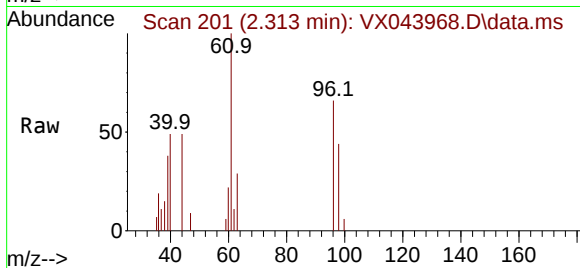
Tgt Ion: 96 Resp: 850

Ion Ratio Lower Upper

96 100

61 151.4 135.5 203.3

98 67.0 50.8 76.2



#16

Acetone

Concen: 1.725 ug/l

RT: 2.374 min Scan# 211

Delta R.T. -0.006 min

Lab File: VX043968.D

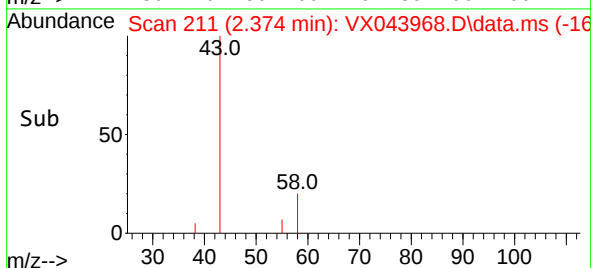
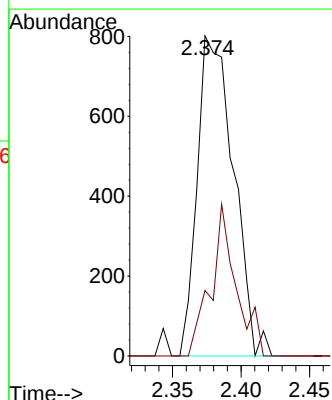
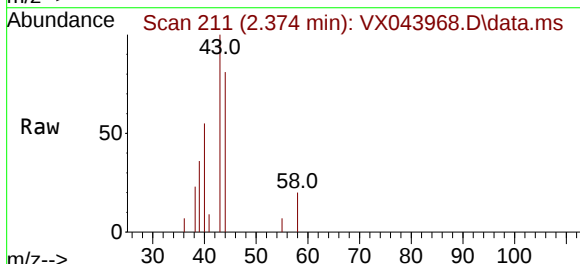
Acq: 22 Nov 2024 18:25

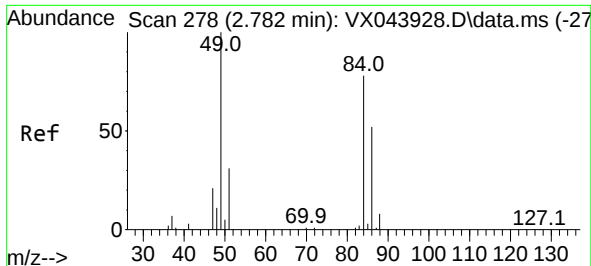
Tgt Ion: 43 Resp: 1472

Ion Ratio Lower Upper

43 100

58 20.5 22.7 34.1#

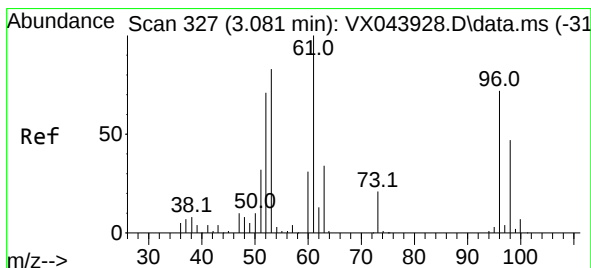
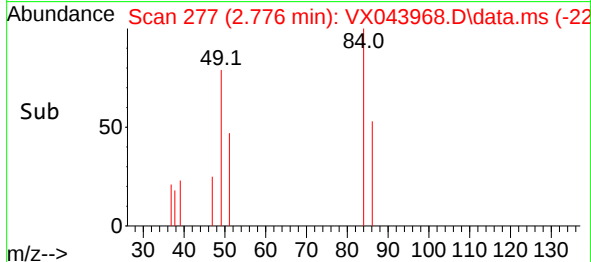
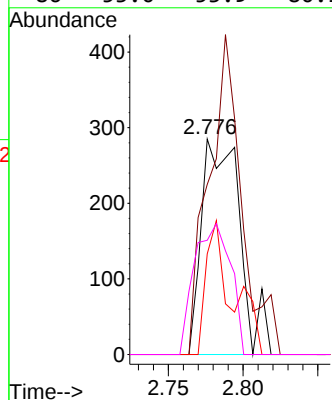
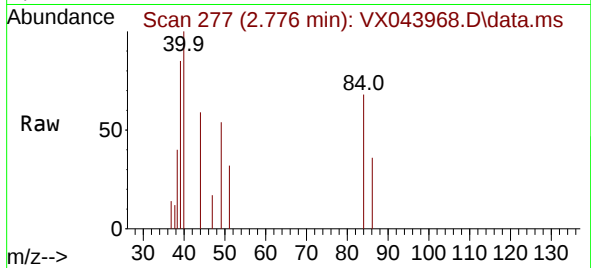




#20  
Methylene Chloride  
Concen: 0.349 ug/l  
RT: 2.776 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: VX043968.D  
Acq: 22 Nov 2024 18:25

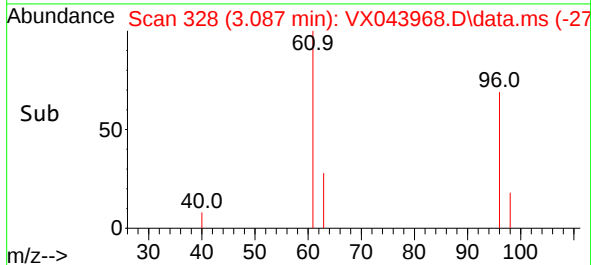
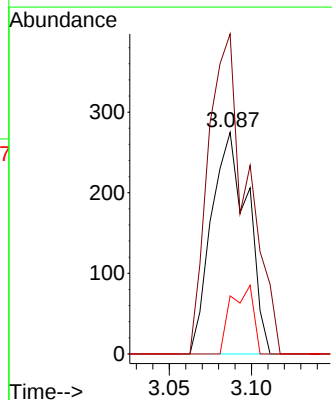
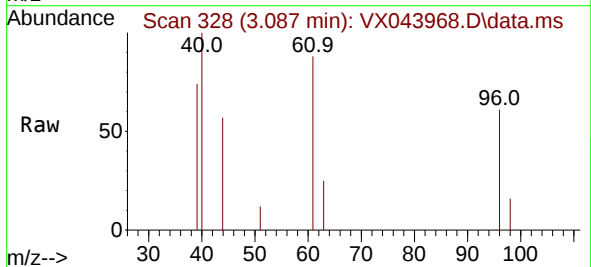
Instrument :  
MSVOA\_X  
ClientSampleId :  
FSND-MW-EVAL-01D-20241113

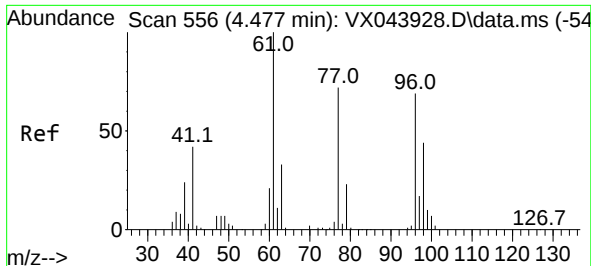
Tgt Ion: 84 Resp: 506  
Ion Ratio Lower Upper  
84 100  
49 78.9 102.7 154.1#  
51 46.7 31.7 47.5  
86 53.0 53.9 80.9#



#21  
trans-1,2-Dichloroethene  
Concen: 0.328 ug/l  
RT: 3.087 min Scan# 328  
Delta R.T. 0.006 min  
Lab File: VX043968.D  
Acq: 22 Nov 2024 18:25

Tgt Ion: 96 Resp: 423  
Ion Ratio Lower Upper  
96 100  
61 144.4 111.8 167.6  
98 26.2 52.7 79.1#





#27

cis-1,2-Dichloroethene

Concen: 9.063 ug/l

RT: 4.483 min Scan# 51

Delta R.T. 0.006 min

Lab File: VX043968.D

Acq: 22 Nov 2024 18:25

Instrument :

MSVOA\_X

ClientSampleId :

FSND-MW-EVAL-01D-20241113

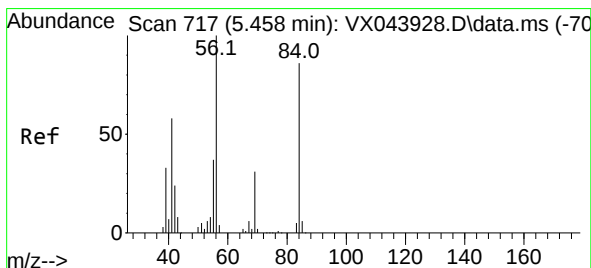
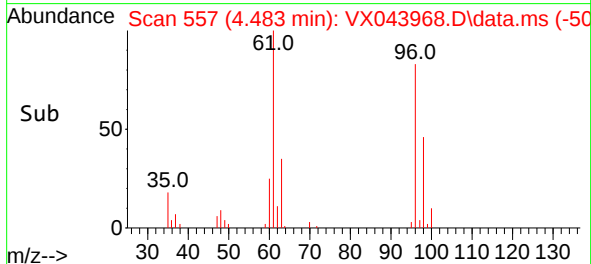
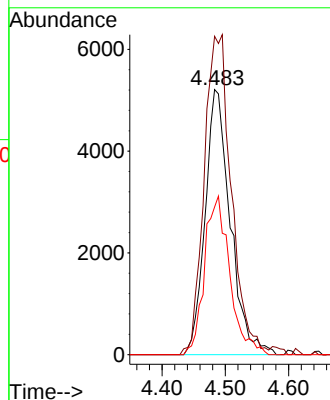
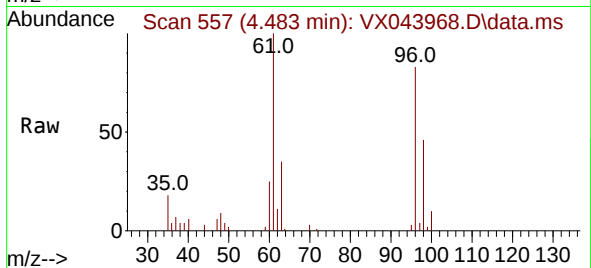
Tgt Ion: 96 Resp: 14439

Ion Ratio Lower Upper

96 100

61 130.0 0.0 297.4

98 59.8 0.0 127.8



#31

Cyclohexane

Concen: 1.547 ug/l

RT: 5.544 min Scan# 731

Delta R.T. 0.085 min

Lab File: VX043968.D

Acq: 22 Nov 2024 18:25

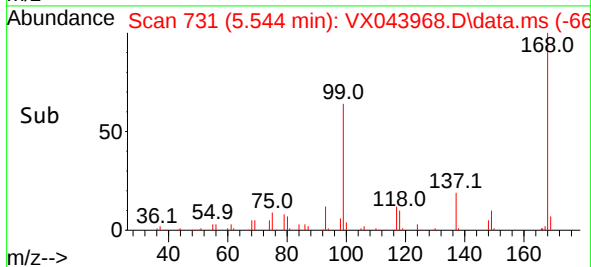
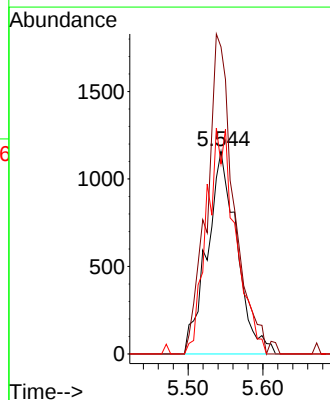
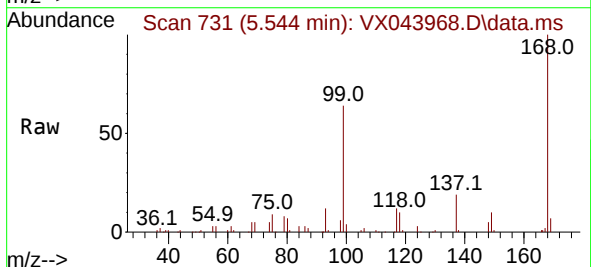
Tgt Ion: 56 Resp: 3203

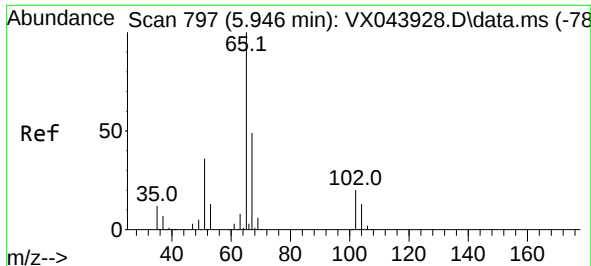
Ion Ratio Lower Upper

56 100

69 151.6 24.7 37.1#

84 93.8 68.7 103.1





#33

1,2-Dichloroethane-d4

Concen: 52.402 ug/l

RT: 5.952 min Scan# 79

Delta R.T. 0.006 min

Lab File: VX043968.D

Acq: 22 Nov 2024 18:25

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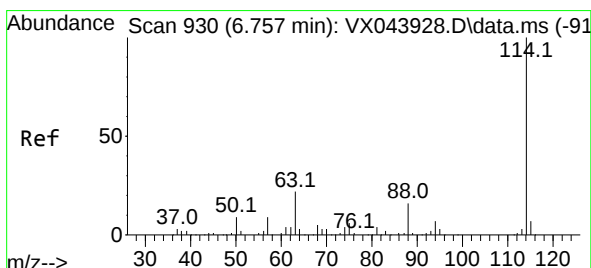
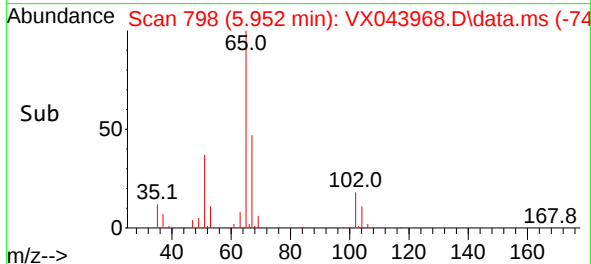
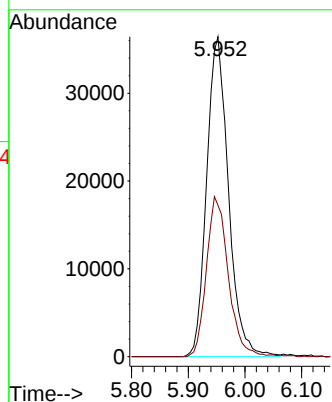
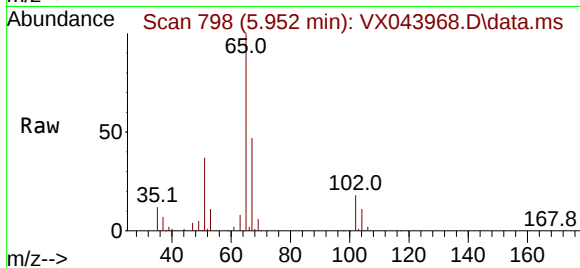
FSND-MW-EVAL-01D-20241113

Tgt Ion: 65 Resp: 97377

Ion Ratio Lower Upper

65 100

67 50.3 0.0 100.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. -0.000 min

Lab File: VX043968.D

Acq: 22 Nov 2024 18:25

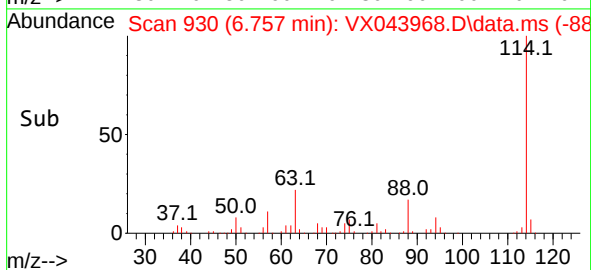
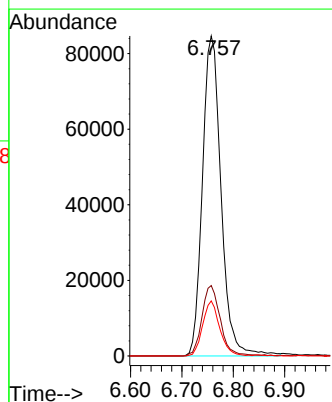
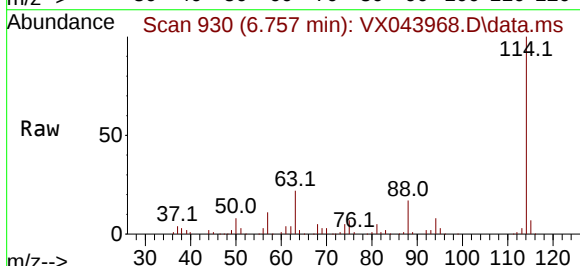
Tgt Ion: 114 Resp: 213438

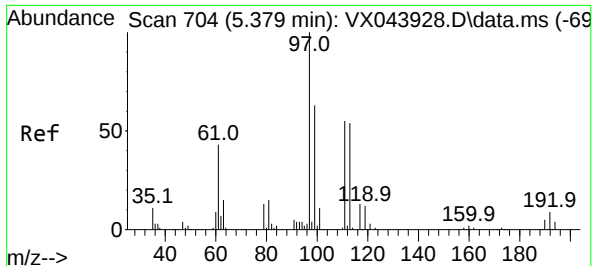
Ion Ratio Lower Upper

114 100

63 22.0 0.0 44.0

88 17.2 0.0 32.4





#35

Dibromofluoromethane

Concen: 45.793 ug/l

RT: 5.379 min Scan# 704

Delta R.T. -0.000 min

Lab File: VX043968.D

Acq: 22 Nov 2024 18:25

Instrument :

MSVOA\_X

ClientSampleId :

FSND-MW-EVAL-01D-20241113

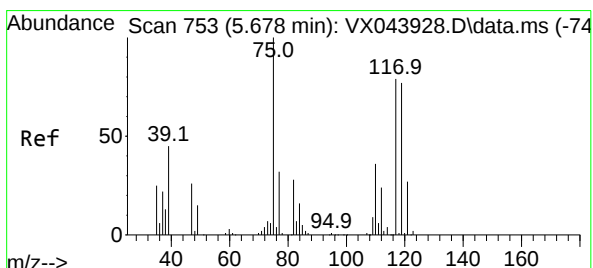
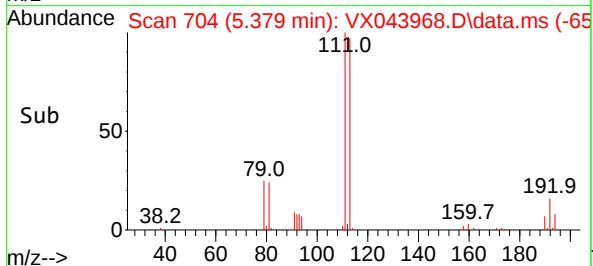
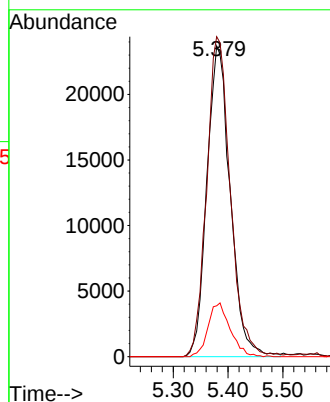
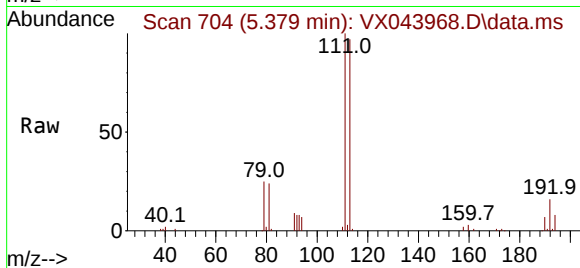
Tgt Ion:113 Resp: 69840

Ion Ratio Lower Upper

113 100

111 104.5 81.0 121.4

192 16.5 13.0 19.6



#36

1,1-Dichloropropene

Concen: 5.373 ug/l

RT: 5.532 min Scan# 729

Delta R.T. -0.146 min

Lab File: VX043968.D

Acq: 22 Nov 2024 18:25

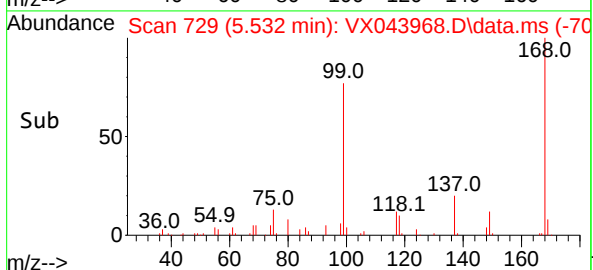
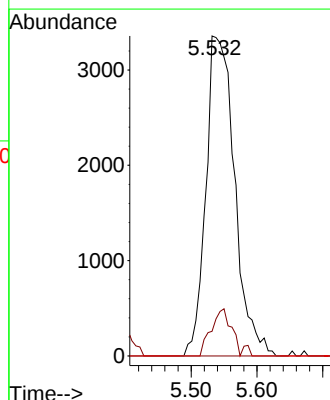
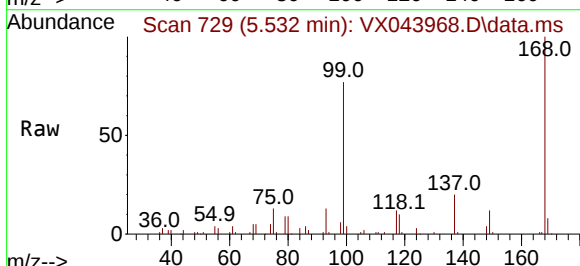
Tgt Ion: 75 Resp: 10211

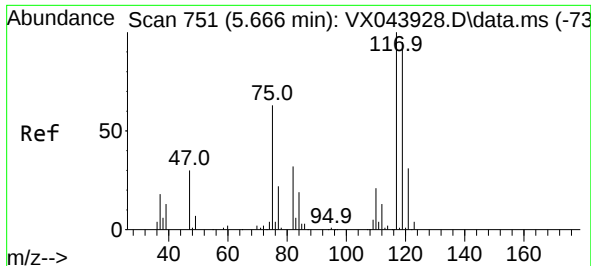
Ion Ratio Lower Upper

75 100

110 11.0 17.4 52.2#

77 0.0 25.8 38.8#





#38

Carbon Tetrachloride

Concen: 6.143 ug/l

RT: 5.544 min Scan# 71

Delta R.T. -0.122 min

Lab File: VX043968.D

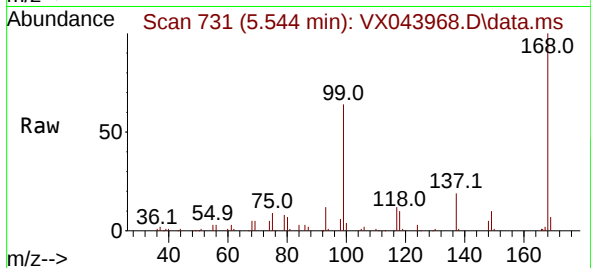
Acq: 22 Nov 2024 18:25

Instrument :

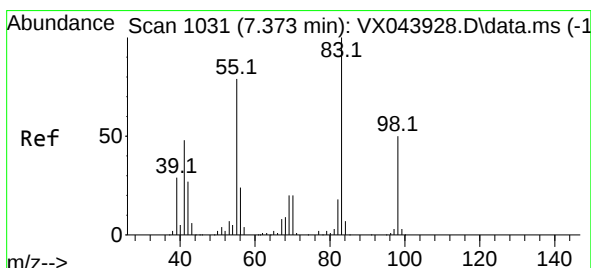
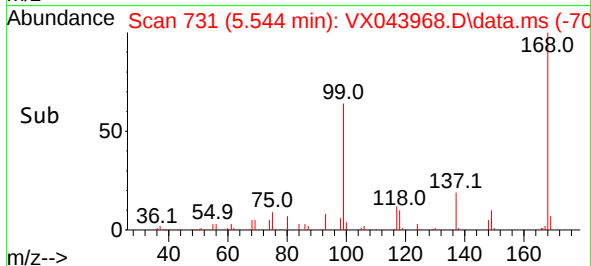
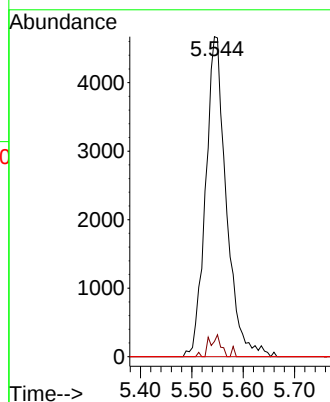
MSVOA\_X

ClientSampleId :

FSND-MW-EVAL-01D-20241113



|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 13119  |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 4.8   | 75.2  | 112.8# |
| 121      | 0.0   | 24.5  | 36.7#  |



#39

Methylcyclohexane

Concen: 3.115 ug/l

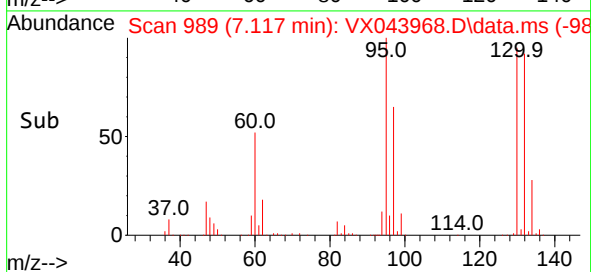
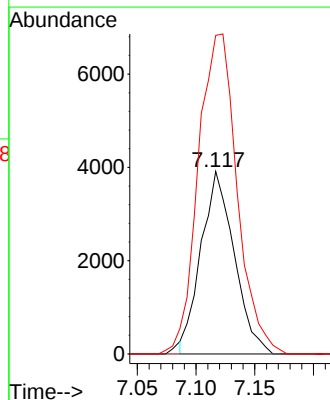
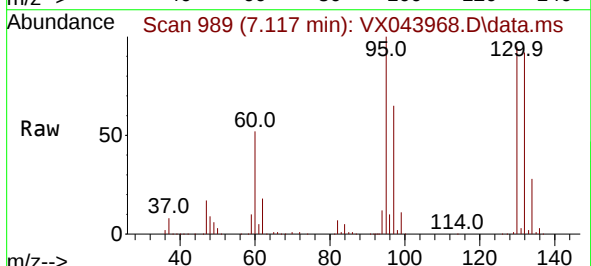
RT: 7.117 min Scan# 989

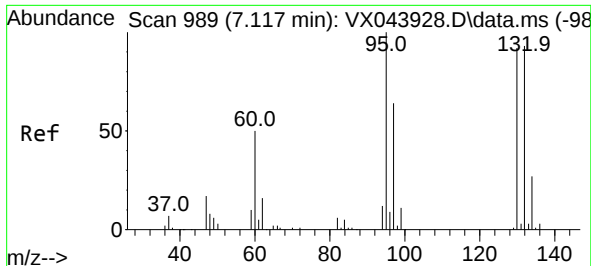
Delta R.T. -0.256 min

Lab File: VX043968.D

Acq: 22 Nov 2024 18:25

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 7691  |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 55       | 0.0   | 63.1  | 94.7# |
| 98       | 172.2 | 40.0  | 60.0# |

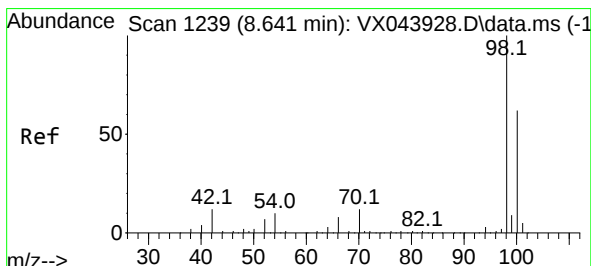
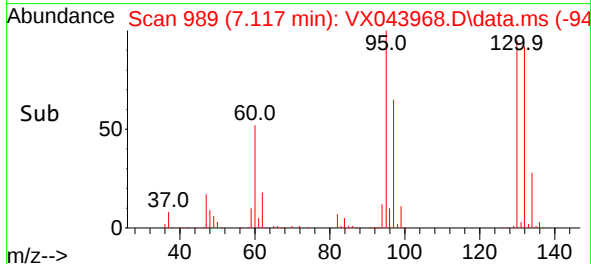
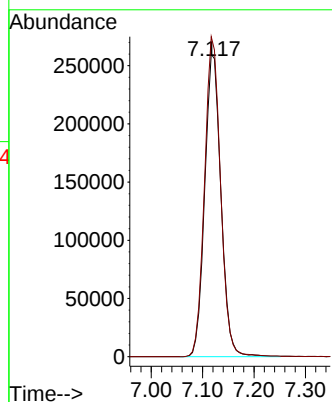
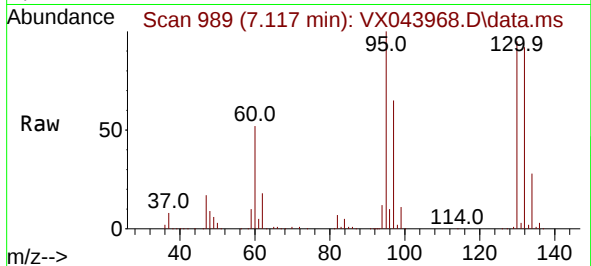




#44  
Trichloroethene  
Concen: 340.966 ug/l  
RT: 7.117 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VX043968.D  
Acq: 22 Nov 2024 18:25

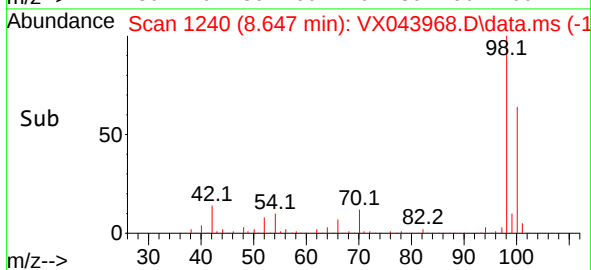
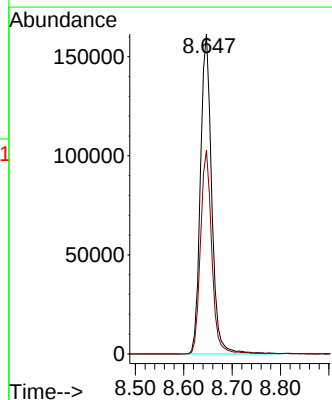
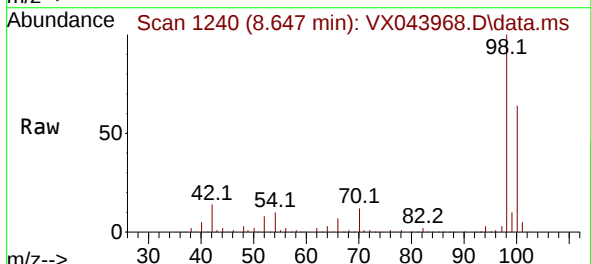
Instrument :  
MSVOA\_X  
ClientSampleId :  
FSND-MW-EVAL-01D-20241113

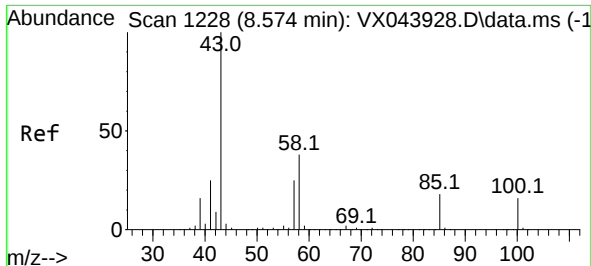
Tgt Ion:130 Resp: 571405  
Ion Ratio Lower Upper  
130 100  
95 105.8 0.0 217.8



#50  
Toluene-d8  
Concen: 49.614 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. 0.006 min  
Lab File: VX043968.D  
Acq: 22 Nov 2024 18:25

Tgt Ion: 98 Resp: 260832  
Ion Ratio Lower Upper  
98 100  
100 63.6 52.6 79.0

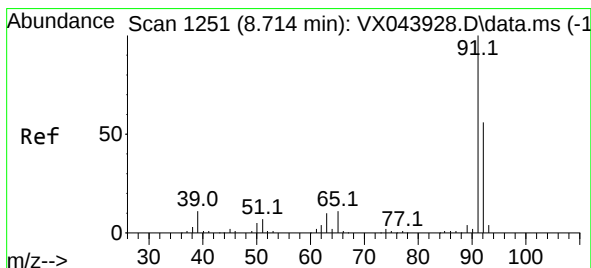
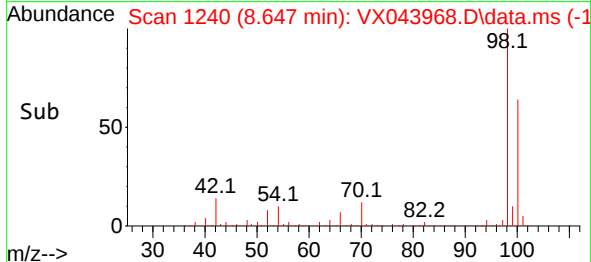
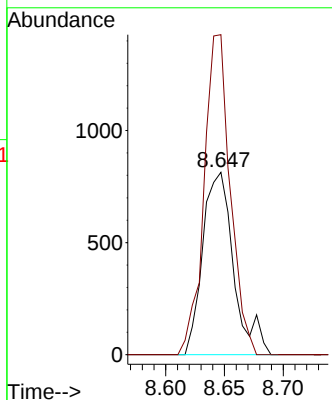
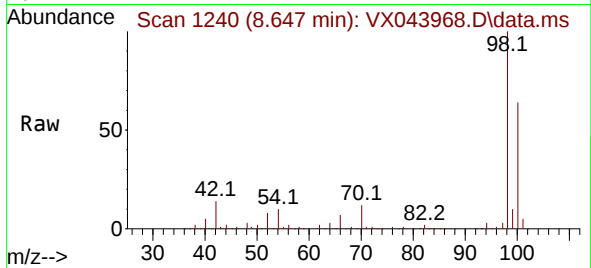




#51  
4-Methyl-2-Pentanone  
Concen: 0.651 ug/l  
RT: 8.647 min Scan# 11  
Delta R.T. 0.073 min  
Lab File: VX043968.D  
Acq: 22 Nov 2024 18:25

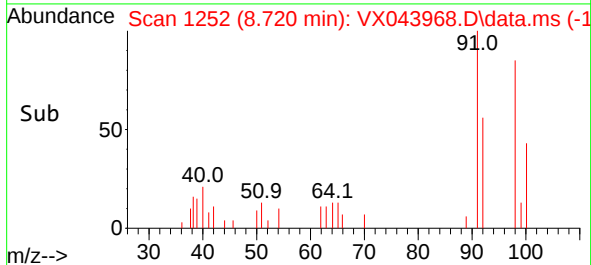
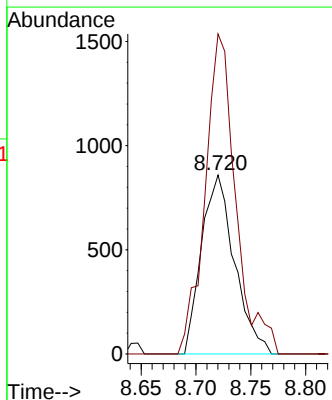
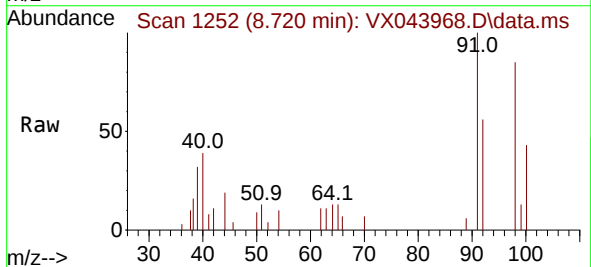
Instrument :  
MSVOA\_X  
ClientSampleId :  
FSND-MW-EVAL-01D-20241113

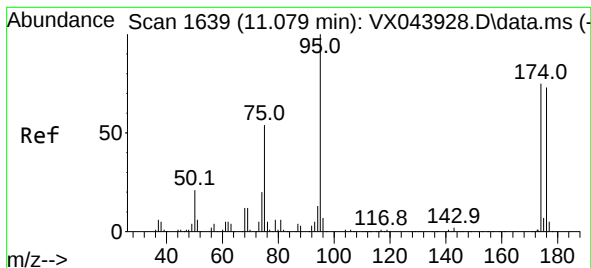
Tgt Ion: 43 Resp: 1492  
Ion Ratio Lower Upper  
43 100  
58 148.7 30.0 45.0#



#52  
Toluene  
Concen: 0.508 ug/l  
RT: 8.720 min Scan# 1252  
Delta R.T. 0.006 min  
Lab File: VX043968.D  
Acq: 22 Nov 2024 18:25

Tgt Ion: 92 Resp: 1801  
Ion Ratio Lower Upper  
92 100  
91 165.9 139.7 209.5

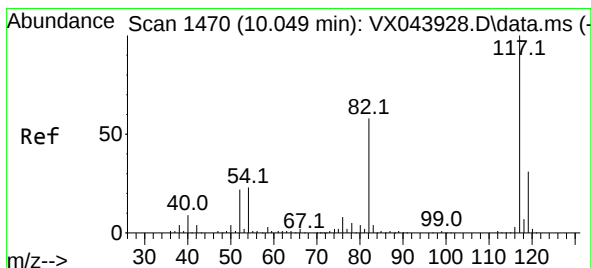
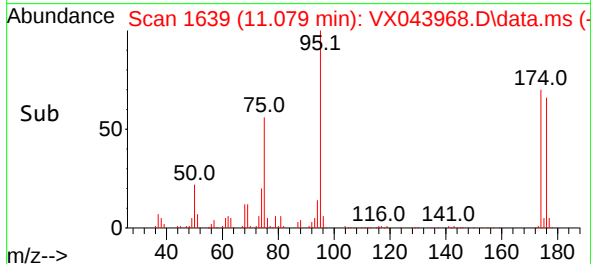
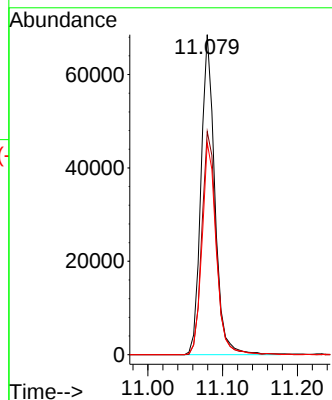
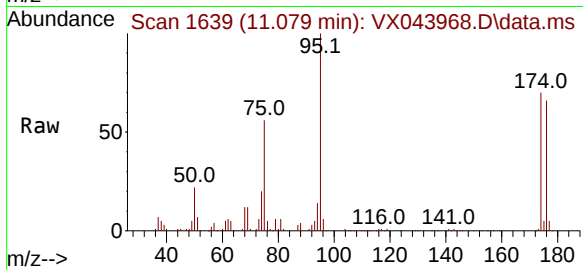




#62  
4-Bromofluorobenzene  
Concen: 49.166 ug/l  
RT: 11.079 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX043968.D  
Acq: 22 Nov 2024 18:25

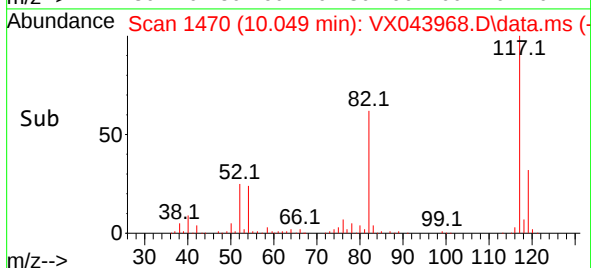
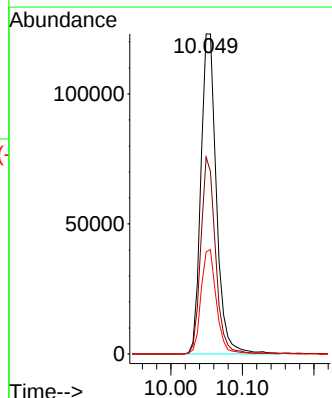
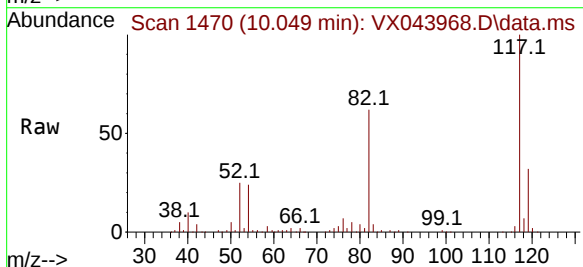
Instrument :  
MSVOA\_X  
ClientSampleId :  
FSND-MW-EVAL-01D-20241113

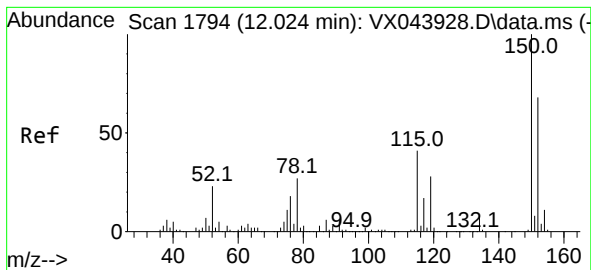
Tgt Ion: 95 Resp: 87967  
Ion Ratio Lower Upper  
95 100  
174 72.7 0.0 150.4  
176 68.2 0.0 146.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.049 min Scan# 1470  
Delta R.T. -0.000 min  
Lab File: VX043968.D  
Acq: 22 Nov 2024 18:25

Tgt Ion: 117 Resp: 185232  
Ion Ratio Lower Upper  
117 100  
82 61.5 46.4 69.6  
119 31.9 24.6 37.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX043968.D

Acq: 22 Nov 2024 18:25

Instrument :

MSVOA\_X

ClientSampleId :

FSND-MW-EVAL-01D-20241113

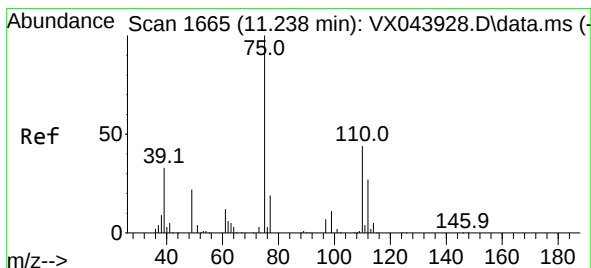
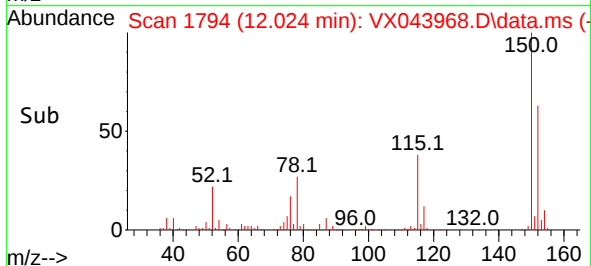
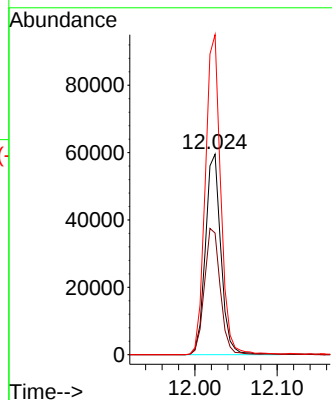
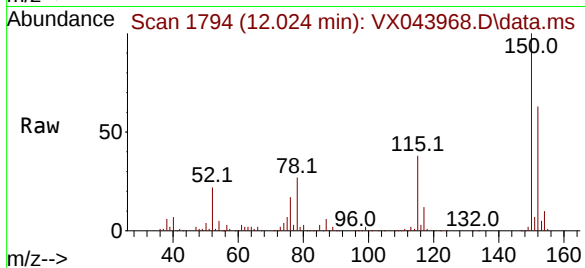
Tgt Ion:152 Resp: 77833

Ion Ratio Lower Upper

152 100

115 64.4 45.4 136.2

150 158.6 0.0 353.0



#76

1,2,3-Trichloropropane

Concen: 29.050 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX043968.D

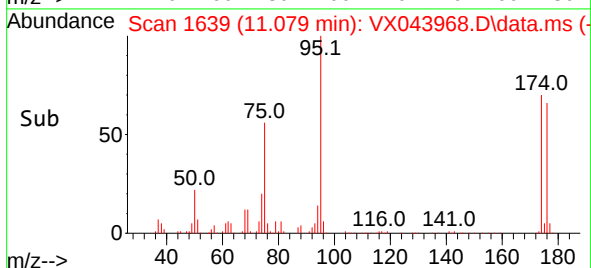
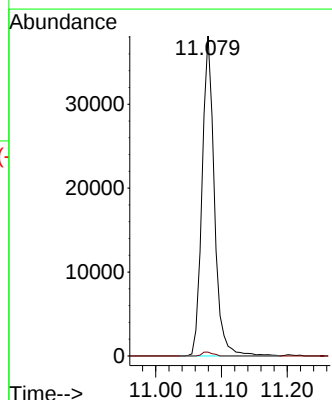
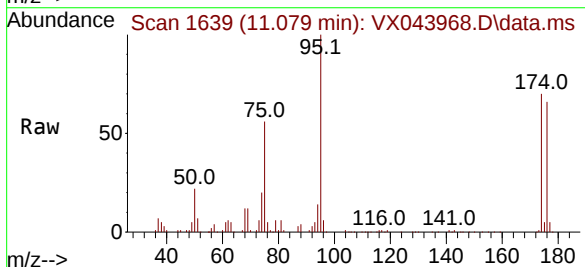
Acq: 22 Nov 2024 18:25

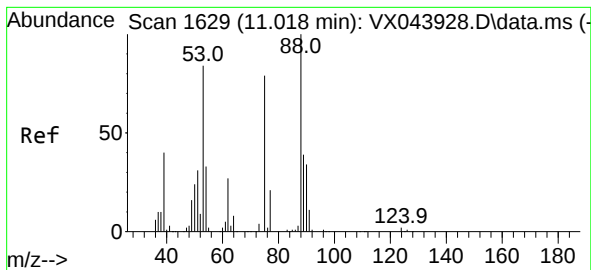
Tgt Ion: 75 Resp: 49584

Ion Ratio Lower Upper

75 100

77 1.1 21.8 65.3#





#81  
trans-1,4-Dichloro-2-butene  
Concen: 79.270 ug/l  
RT: 11.079 min Scan# 10  
Delta R.T. 0.061 min  
Lab File: VX043968.D  
Acq: 22 Nov 2024 18:25

Instrument :  
MSVOA\_X  
ClientSampleId :  
FSND-MW-EVAL-01D-20241113

Tgt Ion: 75 Resp: 49584  
Ion Ratio Lower Upper  
75 100  
53 0.0 86.7 130.1#  
89 0.0 38.2 57.2#

