

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD022124\  
 Data File : VD078503.D  
 Acq On : 21 Feb 2024 17:09  
 Operator : RP/MD  
 Sample : P1538-10  
 Misc : 5.04G/5ml/MSVOA\_D/SOIL/A  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 20241103-AMENDED-COMPOSITE-35N-N-4-02

Quant Time: Feb 22 00:06:07 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D021324S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 14 01:16:20 2024  
 Response via : Initial Calibration

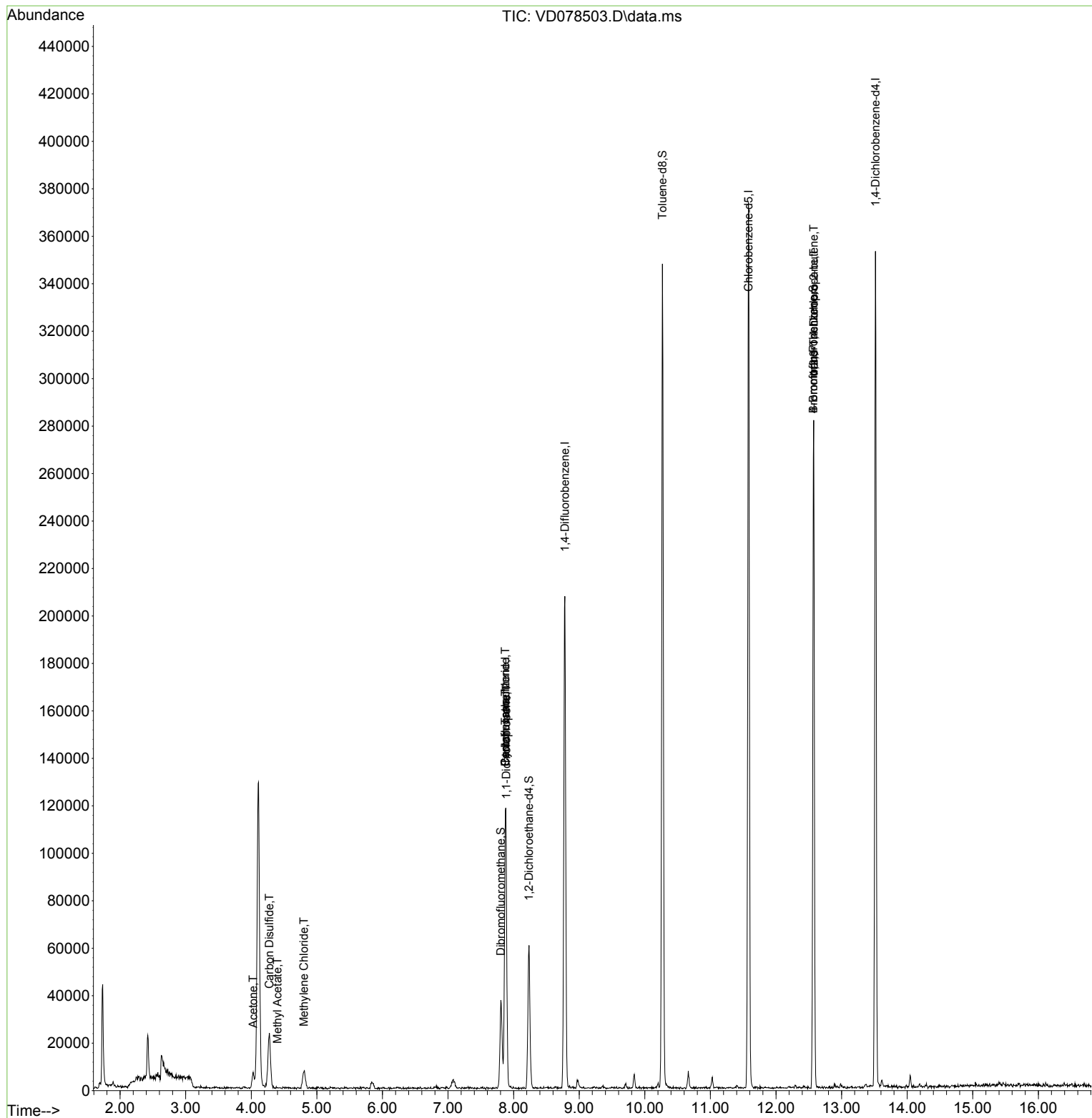
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 7.875  | 168   | 94436    | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.781  | 114   | 190143   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.581 | 117   | 220394   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.516 | 152   | 93226    | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.234  | 65    | 44726    | 43.802    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | =      | 87.600%  |
| 35) Dibromofluoromethane      | 7.805  | 113   | 27068    | 22.411    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | =      | 44.820%# |
| 50) Toluene-d8                | 10.269 | 98    | 241629   | 50.010    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 134 | Recovery  | =      | 100.020% |
| 62) 4-Bromofluorobenzene      | 12.569 | 95    | 84793    | 60.307    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 30 - 143 | Recovery  | =      | 120.620% |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 16) Acetone                   | 4.028  | 43    | 10658    | 32.968    | ug/l   | 94       |
| 17) Carbon Disulfide          | 4.275  | 76    | 48279    | 13.937    | ug/l # | 94       |
| 18) Methyl Acetate            | 4.399  | 43    | 61       | 4.017     | ug/l # | 42       |
| 20) Methylene Chloride        | 4.805  | 84    | 6078     | 2.307     | ug/l   | 90       |
| 25) 2-Butanone                | 7.093  | 43    | 2517     | Below Cal |        | 99       |
| 31) Cyclohexane               | 7.875  | 56    | 2113     | 1.223     | ug/l # | 51       |
| 36) 1,1-Dichloropropene       | 7.887  | 75    | 8562     | 4.563     | ug/l # | 45       |
| 38) Carbon Tetrachloride      | 7.875  | 117   | 9395     | 5.056     | ug/l # | 18       |
| 71) Bromoform                 | 12.569 | 173   | 1040     | 1.213     | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.575 | 75    | 44377    | 56.070    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.575 | 75    | 44377    | 116.402   | ug/l # | 17       |
| -----                         |        |       |          |           |        |          |

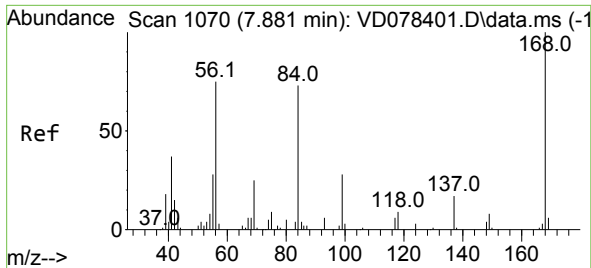
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D021324S.M  
Quant Title : SW846 8260  
QLast Update : Wed Feb 14 01:16:20 2024  
Response via : Initial Calibration

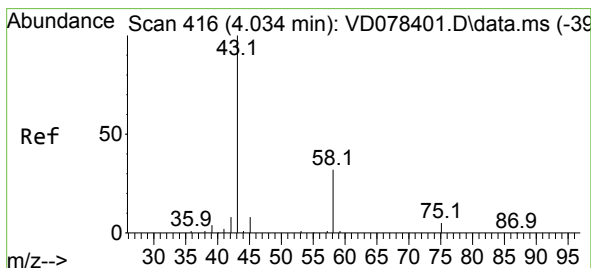
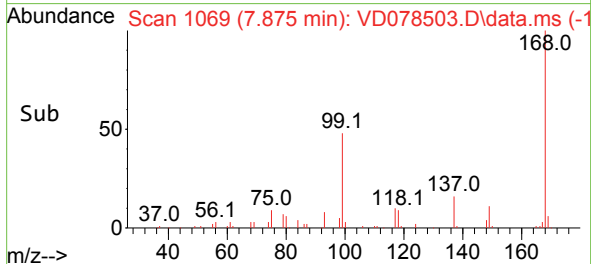
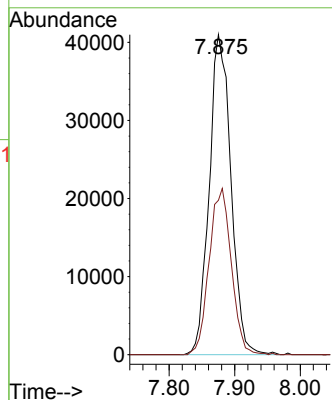
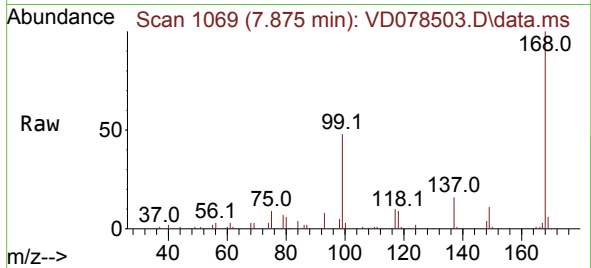




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.875 min Scan# 1069  
Delta R.T. -0.006 min  
Lab File: VD078503.D  
Acq: 21 Feb 2024 17:09

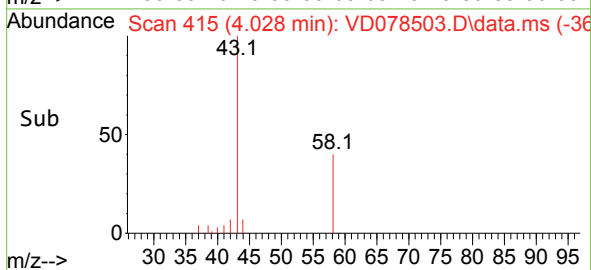
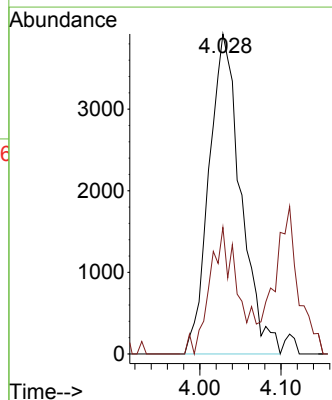
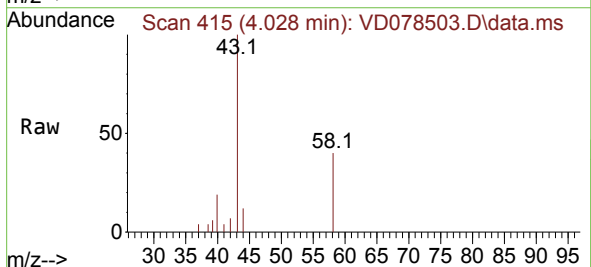
Instrument : MSVOA\_D  
ClientSampleId : 20241103-AMENDED-COMPOSITE-35N-N-4-02

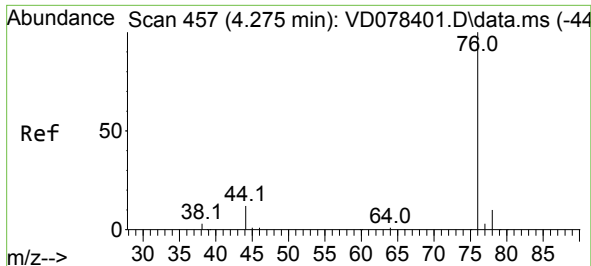
Tgt Ion:168 Resp: 94436  
Ion Ratio Lower Upper  
168 100  
99 48.2 36.7 55.1



#16  
Acetone  
Concen: 32.968 ug/l  
RT: 4.028 min Scan# 415  
Delta R.T. -0.006 min  
Lab File: VD078503.D  
Acq: 21 Feb 2024 17:09

Tgt Ion: 43 Resp: 10658  
Ion Ratio Lower Upper  
43 100  
58 39.5 34.7 52.1





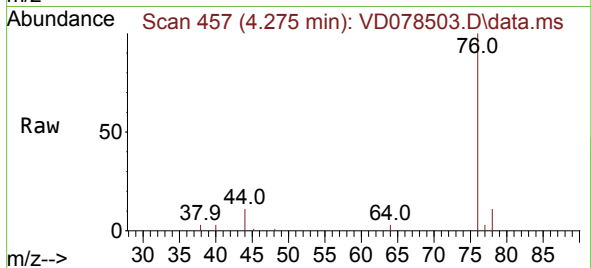
#17  
Carbon Disulfide  
Concen: 13.937 ug/l  
RT: 4.275 min Scan# 41  
Delta R.T. 0.000 min  
Lab File: VD078503.D  
Acq: 21 Feb 2024 17:09

Instrument :

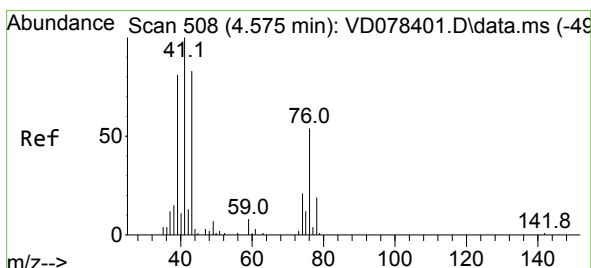
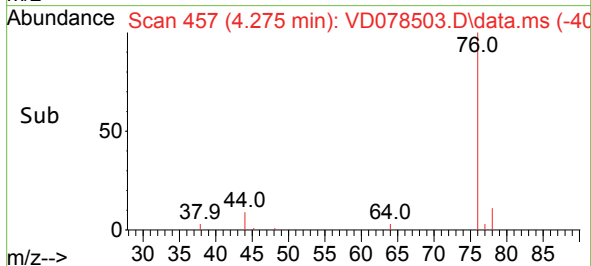
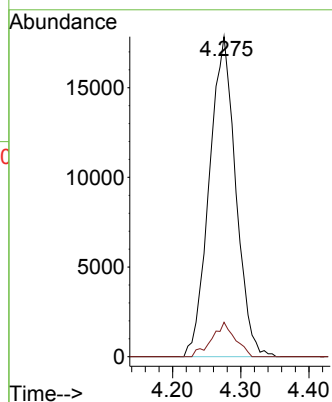
MSVOA\_D

ClientSampleId :

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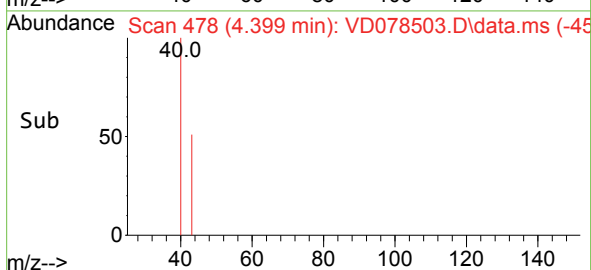
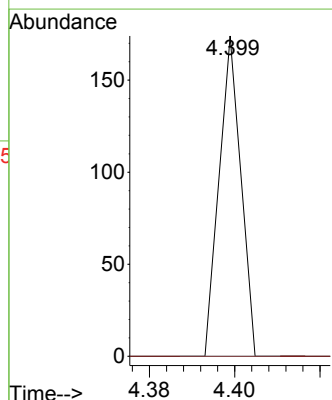
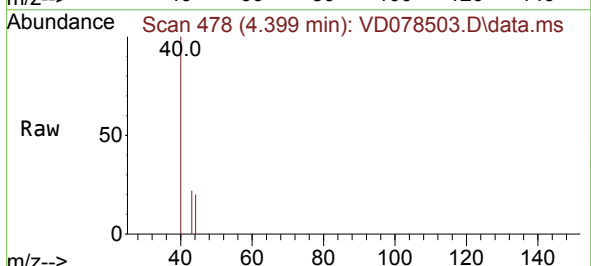


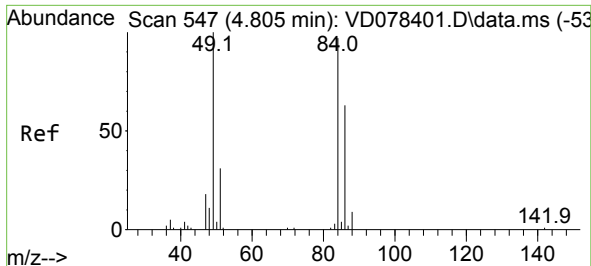
Tgt Ion: 76 Resp: 48279  
Ion Ratio Lower Upper  
76 100  
78 10.8 6.8 10.2#



#18  
Methyl Acetate  
Concen: 4.017 ug/l  
RT: 4.399 min Scan# 478  
Delta R.T. -0.176 min  
Lab File: VD078503.D  
Acq: 21 Feb 2024 17:09

Tgt Ion: 43 Resp: 61  
Ion Ratio Lower Upper  
43 100  
74 0.0 26.4 39.6#





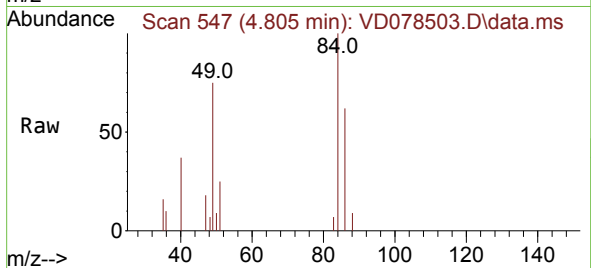
#20  
Methylene Chloride  
Concen: 2.307 ug/l  
RT: 4.805 min Scan# 54  
Delta R.T. -0.000 min  
Lab File: VD078503.D  
Acq: 21 Feb 2024 17:09

Instrument :

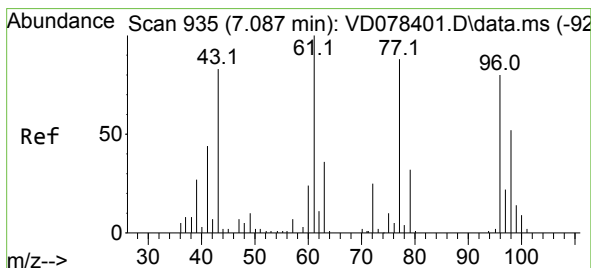
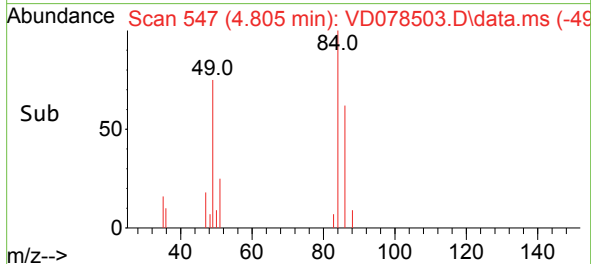
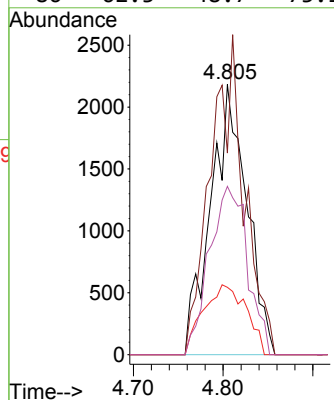
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20241103-AMENDED-COMPOSITE-35N-N-4-02

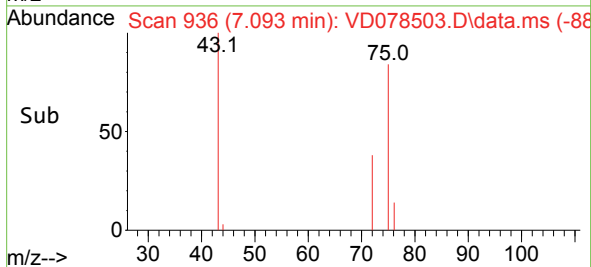
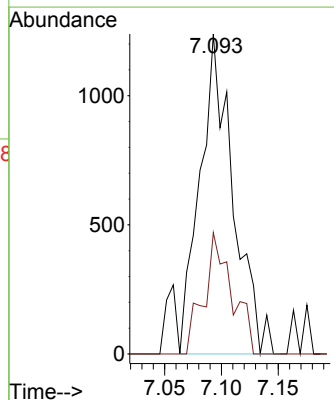
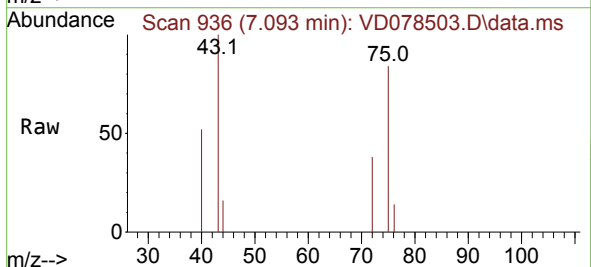


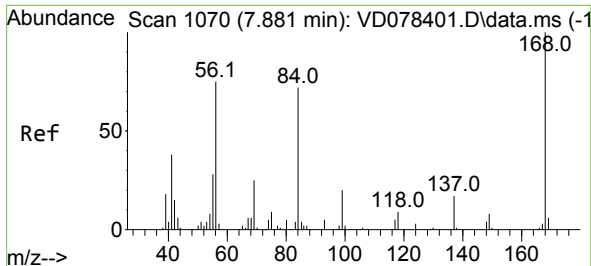
|             |             |
|-------------|-------------|
| Tgt Ion: 84 | Resp: 6078  |
| Ion Ratio   | Lower Upper |
| 84 100      |             |
| 49 74.6     | 71.4 107.2  |
| 51 24.9     | 24.5 36.7   |
| 86 62.3     | 48.7 73.1   |



#25  
2-Butanone  
Concen: Below Cal  
RT: 7.093 min Scan# 936  
Delta R.T. 0.006 min  
Lab File: VD078503.D  
Acq: 21 Feb 2024 17:09

|             |            |       |  |
|-------------|------------|-------|--|
| Tgt Ion: 43 | Resp: 2517 |       |  |
| Ion Ratio   | Lower      | Upper |  |
| 43 100      |            |       |  |
| 72 37.9     | 30.7       | 46.1  |  |





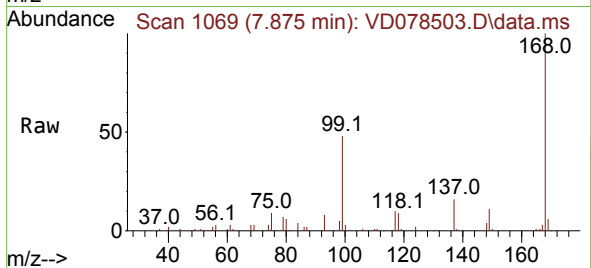
#31  
Cyclohexane  
Concen: 1.223 ug/l  
RT: 7.875 min Scan# 1069  
Delta R.T. -0.006 min  
Lab File: VD078503.D  
Acq: 21 Feb 2024 17:09

Instrument :

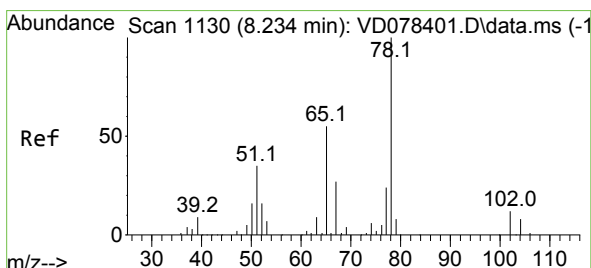
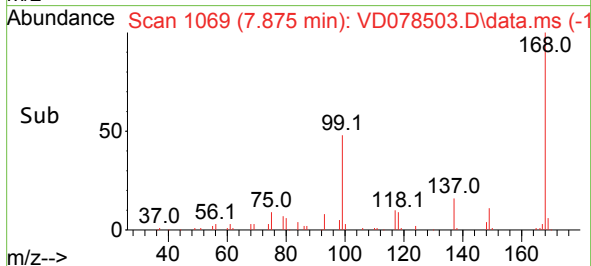
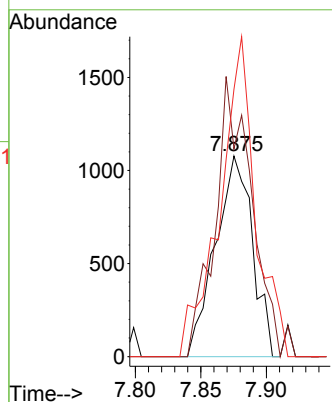
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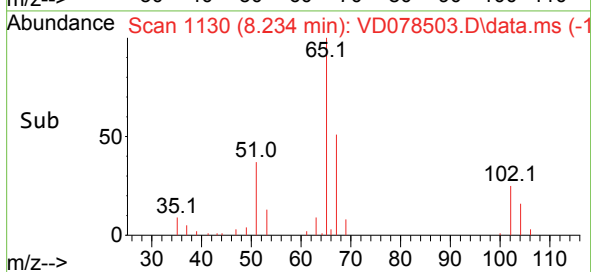
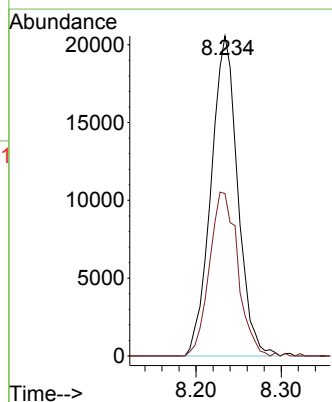
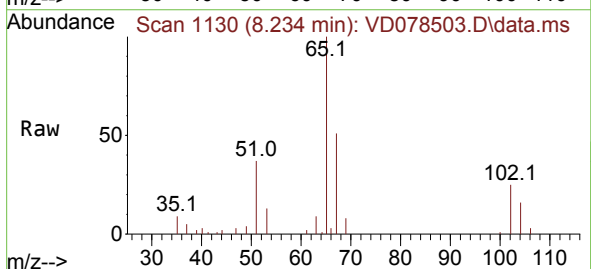


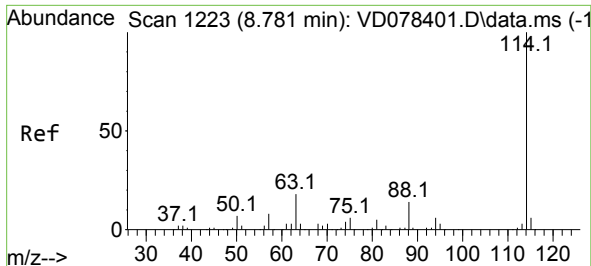
Tgt Ion: 56 Resp: 2113  
Ion Ratio Lower Upper  
56 100  
69 103.5 28.6 43.0#  
84 133.2 84.8 127.2#



#33  
1,2-Dichloroethane-d4  
Concen: 43.802 ug/l  
RT: 8.234 min Scan# 1130  
Delta R.T. 0.000 min  
Lab File: VD078503.D  
Acq: 21 Feb 2024 17:09

Tgt Ion: 65 Resp: 44726  
Ion Ratio Lower Upper  
65 100  
67 54.3 0.0 115.0





#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.781 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VD078503.D  
Acq: 21 Feb 2024 17:09

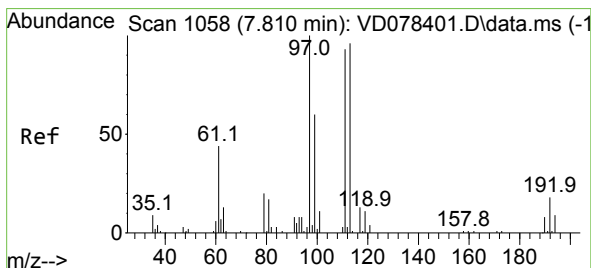
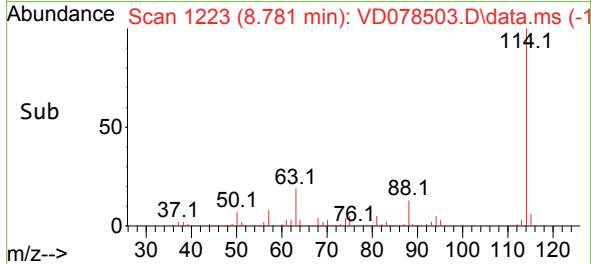
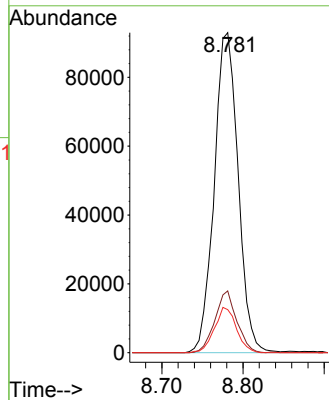
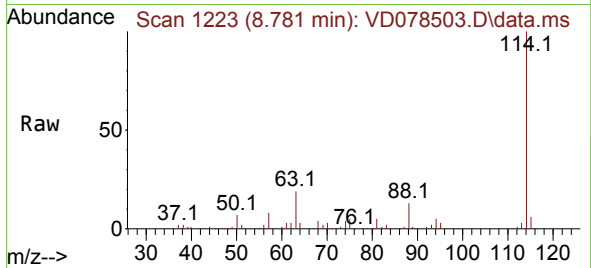
Instrument :

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ClientSampleId :

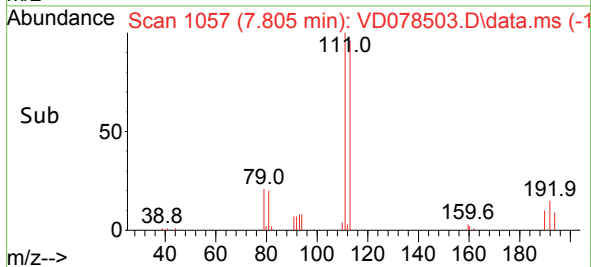
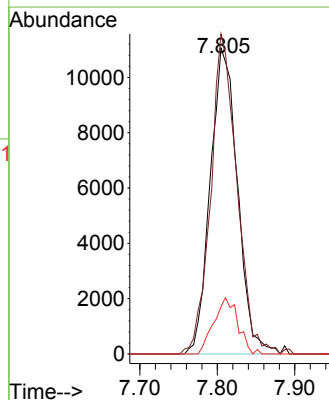
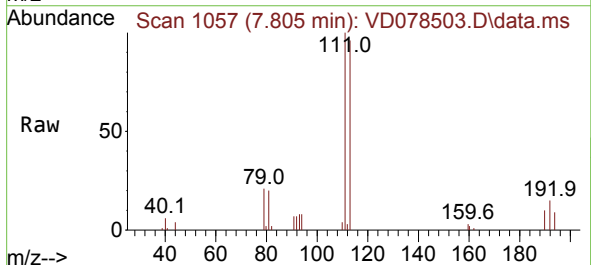
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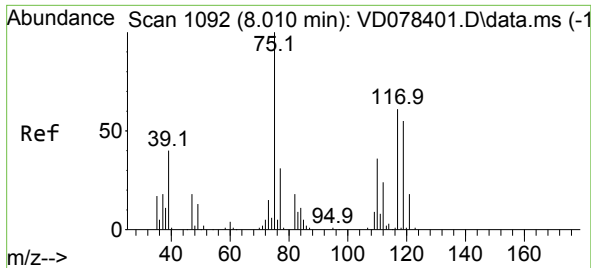
Tgt Ion:114 Resp: 190143  
Ion Ratio Lower Upper  
114 100  
63 19.3 0.0 33.4  
88 13.5 0.0 26.2



#35  
Dibromofluoromethane  
Concen: 22.411 ug/l  
RT: 7.805 min Scan# 1057  
Delta R.T. -0.006 min  
Lab File: VD078503.D  
Acq: 21 Feb 2024 17:09

Tgt Ion:113 Resp: 27068  
Ion Ratio Lower Upper  
113 100  
111 100.4 84.7 127.1  
192 16.2 16.8 25.2#





#36  
1,1-Dichloropropene  
Concen: 4.563 ug/l  
RT: 7.887 min Scan# 1069  
Delta R.T. -0.123 min  
Lab File: VD078503.D  
Acq: 21 Feb 2024 17:09

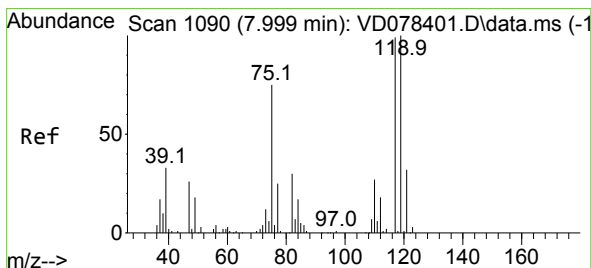
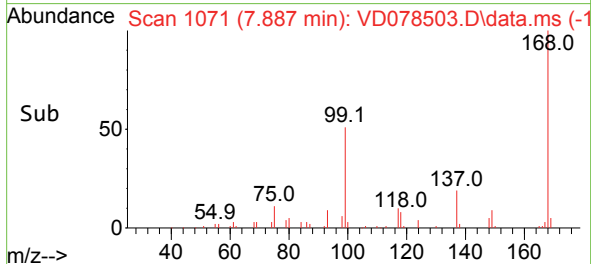
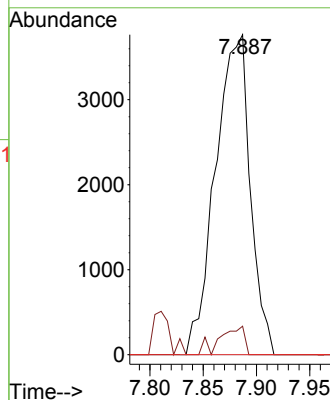
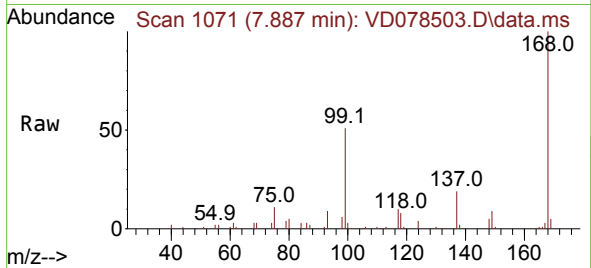
Instrument :

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ClientSampleId :

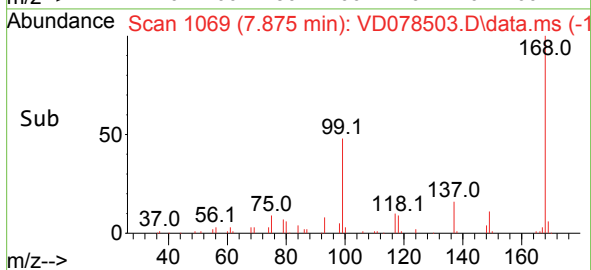
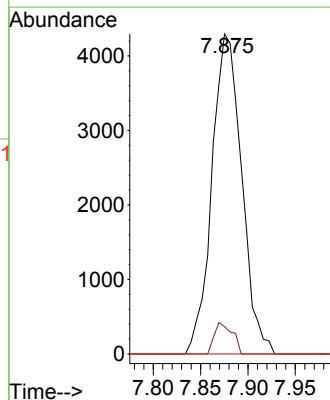
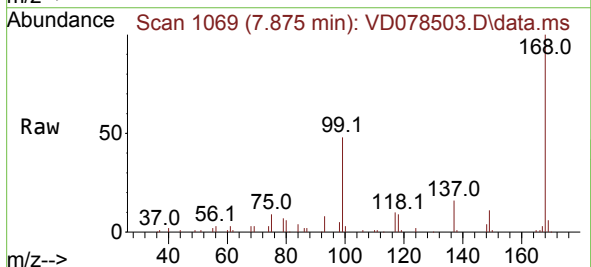
20241103-AMENDED-COMPOSITE-35N-N-4-02

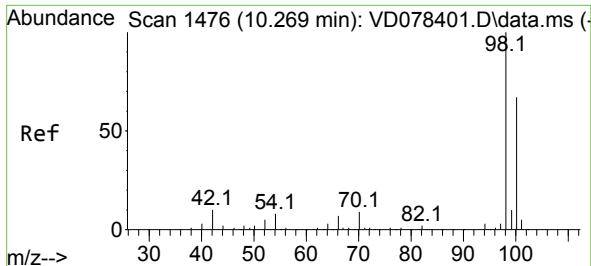
Tgt Ion: 75 Resp: 8562  
Ion Ratio Lower Upper  
75 100  
110 6.2 19.9 59.6#  
77 0.0 24.7 37.1#



#38  
Carbon Tetrachloride  
Concen: 5.056 ug/l  
RT: 7.875 min Scan# 1069  
Delta R.T. -0.123 min  
Lab File: VD078503.D  
Acq: 21 Feb 2024 17:09

Tgt Ion: 117 Resp: 9395  
Ion Ratio Lower Upper  
117 100  
119 8.5 78.0 117.0#  
121 0.0 24.2 36.2#





#50  
Toluene-d8  
Concen: 50.010 ug/l  
RT: 10.269 min Scan# 1476  
Delta R.T. 0.000 min  
Lab File: VD078503.D  
Acq: 21 Feb 2024 17:09

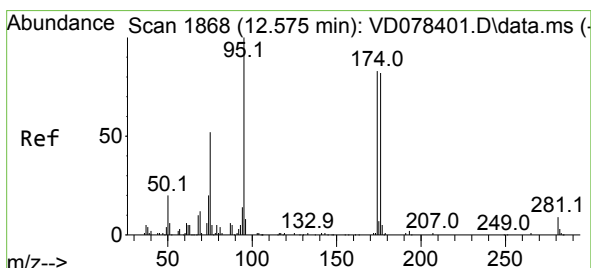
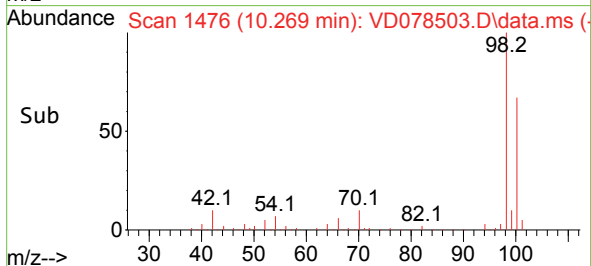
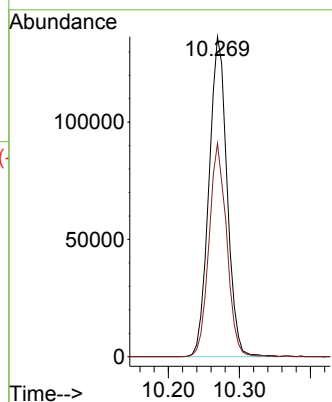
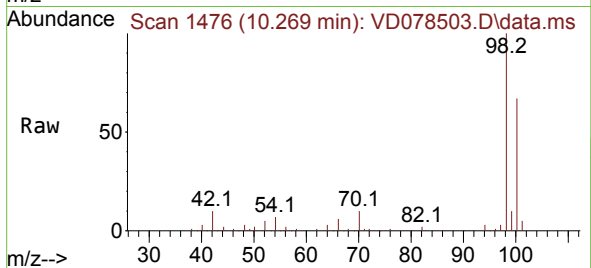
Instrument :

MSVOA\_D

ClientSampleId :

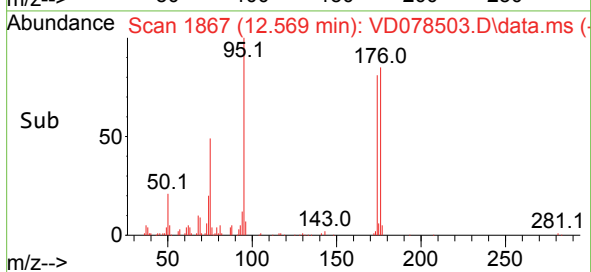
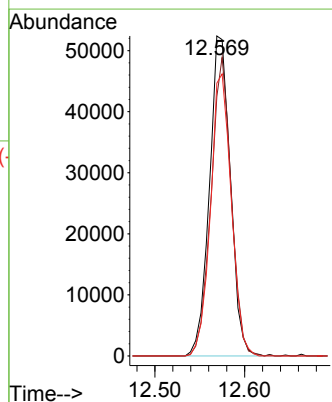
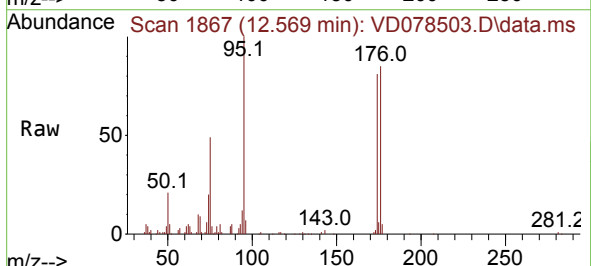
20241103-AMENDED-COMPOSITE-35N-N-4-02

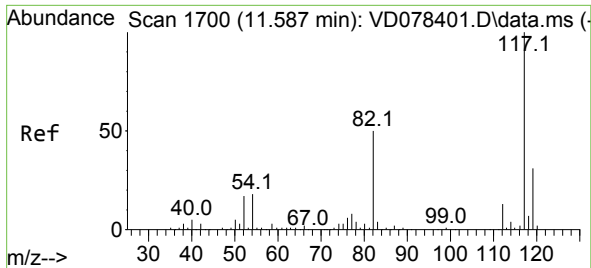
Tgt Ion: 98 Resp: 241629  
Ion Ratio Lower Upper  
98 100  
100 65.0 50.3 75.5



#62  
4-Bromofluorobenzene  
Concen: 60.307 ug/l  
RT: 12.569 min Scan# 1867  
Delta R.T. -0.006 min  
Lab File: VD078503.D  
Acq: 21 Feb 2024 17:09

Tgt Ion: 95 Resp: 84793  
Ion Ratio Lower Upper  
95 100  
174 90.1 0.0 201.8  
176 87.7 0.0 191.8





#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.581 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VD078503.D  
Acq: 21 Feb 2024 17:09

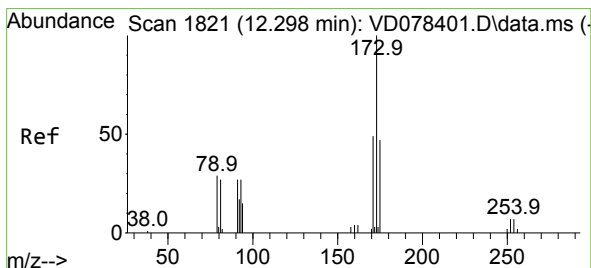
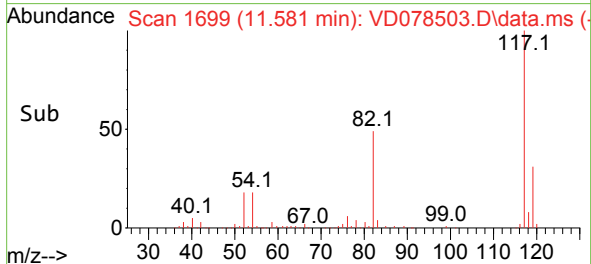
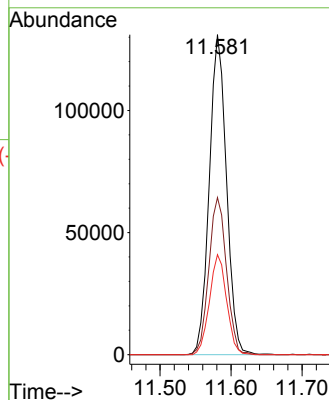
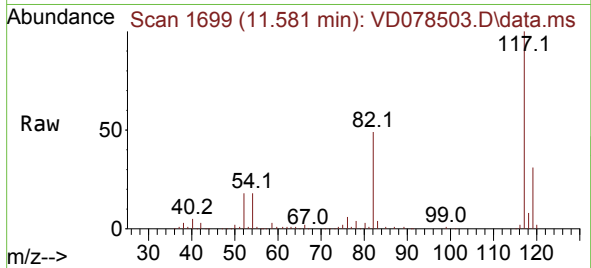
Instrument :

MSVOA\_D

ClientSampleId :

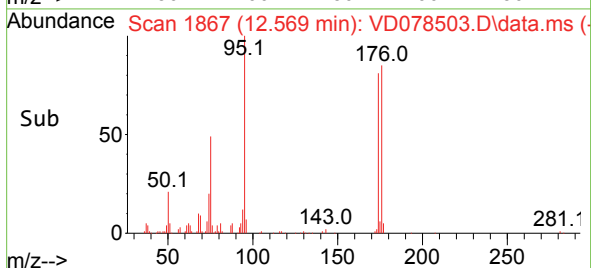
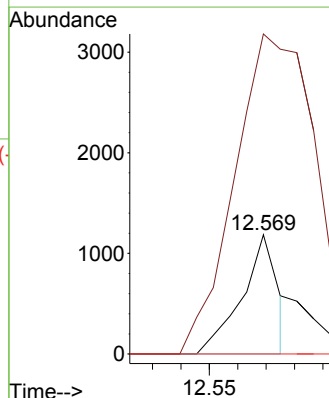
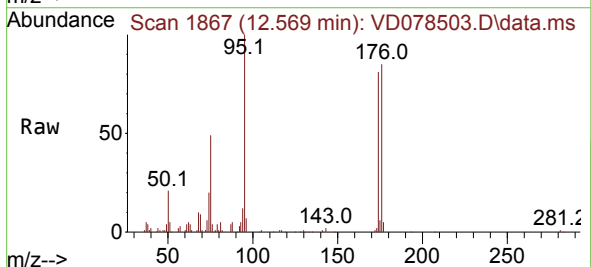
20241103-AMENDED-COMPOSITE-35N-N-4-02

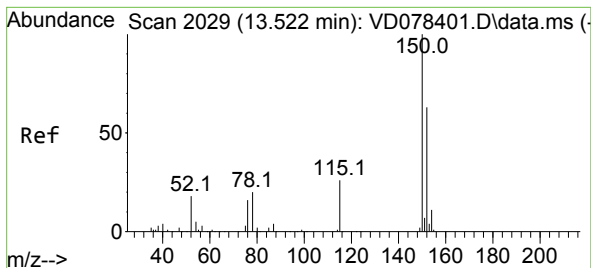
Tgt Ion:117 Resp: 220394  
Ion Ratio Lower Upper  
117 100  
82 49.1 38.3 57.5  
119 31.3 25.0 37.4



#71  
Bromoform  
Concen: 1.213 ug/l  
RT: 12.569 min Scan# 1867  
Delta R.T. 0.271 min  
Lab File: VD078503.D  
Acq: 21 Feb 2024 17:09

Tgt Ion:173 Resp: 1040  
Ion Ratio Lower Upper  
173 100  
175 379.4 24.6 73.8#  
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.516 min Scan# 20

Delta R.T. -0.006 min

Lab File: VD078503.D

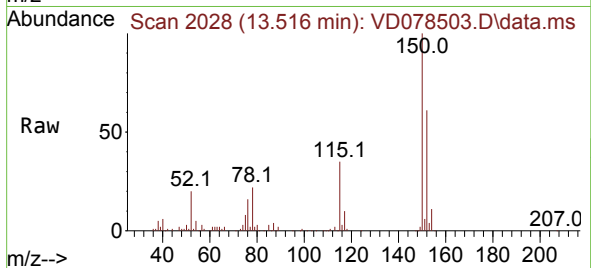
Acq: 21 Feb 2024 17:09

Instrument :

MSVOA\_D

ClientSampleId :

20241103-AMENDED-COMPOSITE-35N-N-4-02



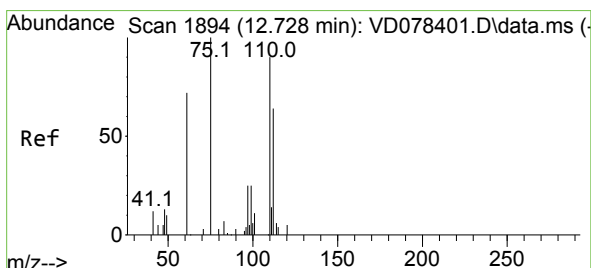
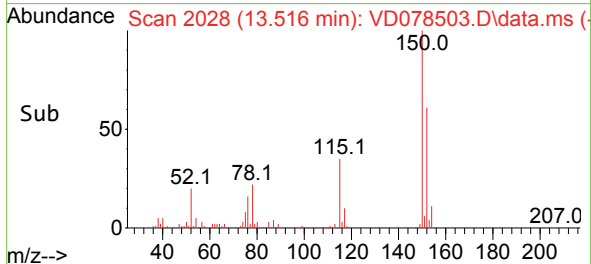
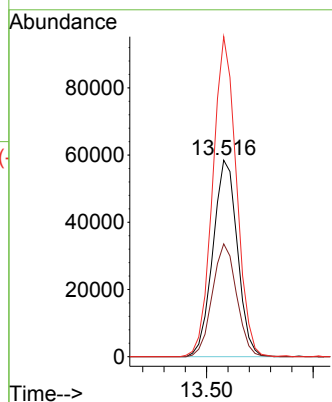
Tgt Ion:152 Resp: 93226

Ion Ratio Lower Upper

152 100

115 57.1 27.1 81.3

150 157.9 0.0 353.6



#76

1,2,3-Trichloropropane

Concen: 56.070 ug/l

RT: 12.575 min Scan# 1868

Delta R.T. -0.153 min

Lab File: VD078503.D

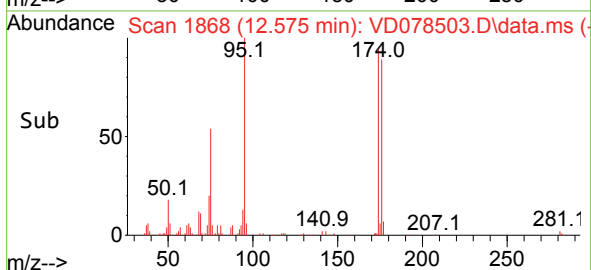
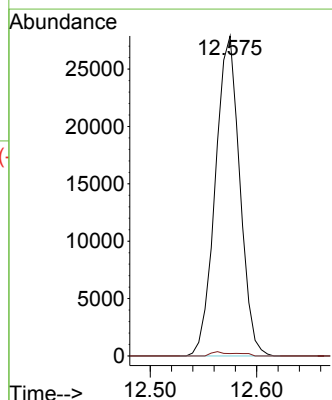
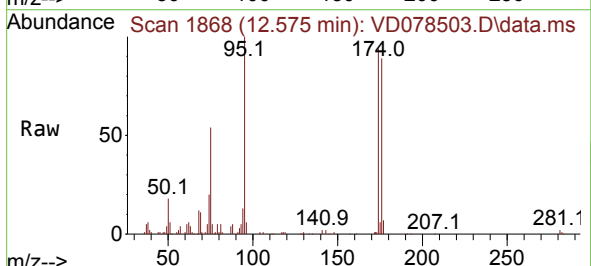
Acq: 21 Feb 2024 17:09

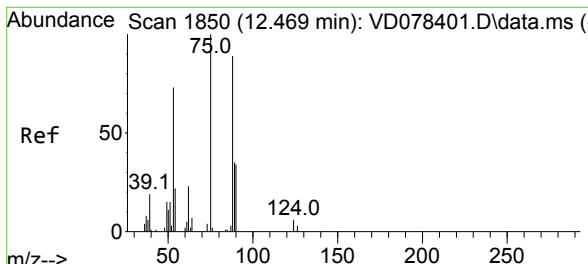
Tgt Ion: 75 Resp: 44377

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 116.402 ug/l  
 RT: 12.575 min Scan# 11  
 Delta R.T. 0.106 min  
 Lab File: VD078503.D  
 Acq: 21 Feb 2024 17:09

Instrument : MSVOA\_D  
 ClientSampleId : 20241103-AMENDED-COMPOSITE-35N-N-4-02

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 44377 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 53       | 0.0   | 63.0  | 94.4# |
| 89       | 0.2   | 37.9  | 56.9# |

