

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY042623\  
 Data File : VY013472.D  
 Acq On : 26 Apr 2023 14:43  
 Operator : KP/MD  
 Sample : 02401-05  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 20230318-31-4

Quant Time: Apr 27 01:33:19 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y042423S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 25 02:39:58 2023  
 Response via : Initial Calibration

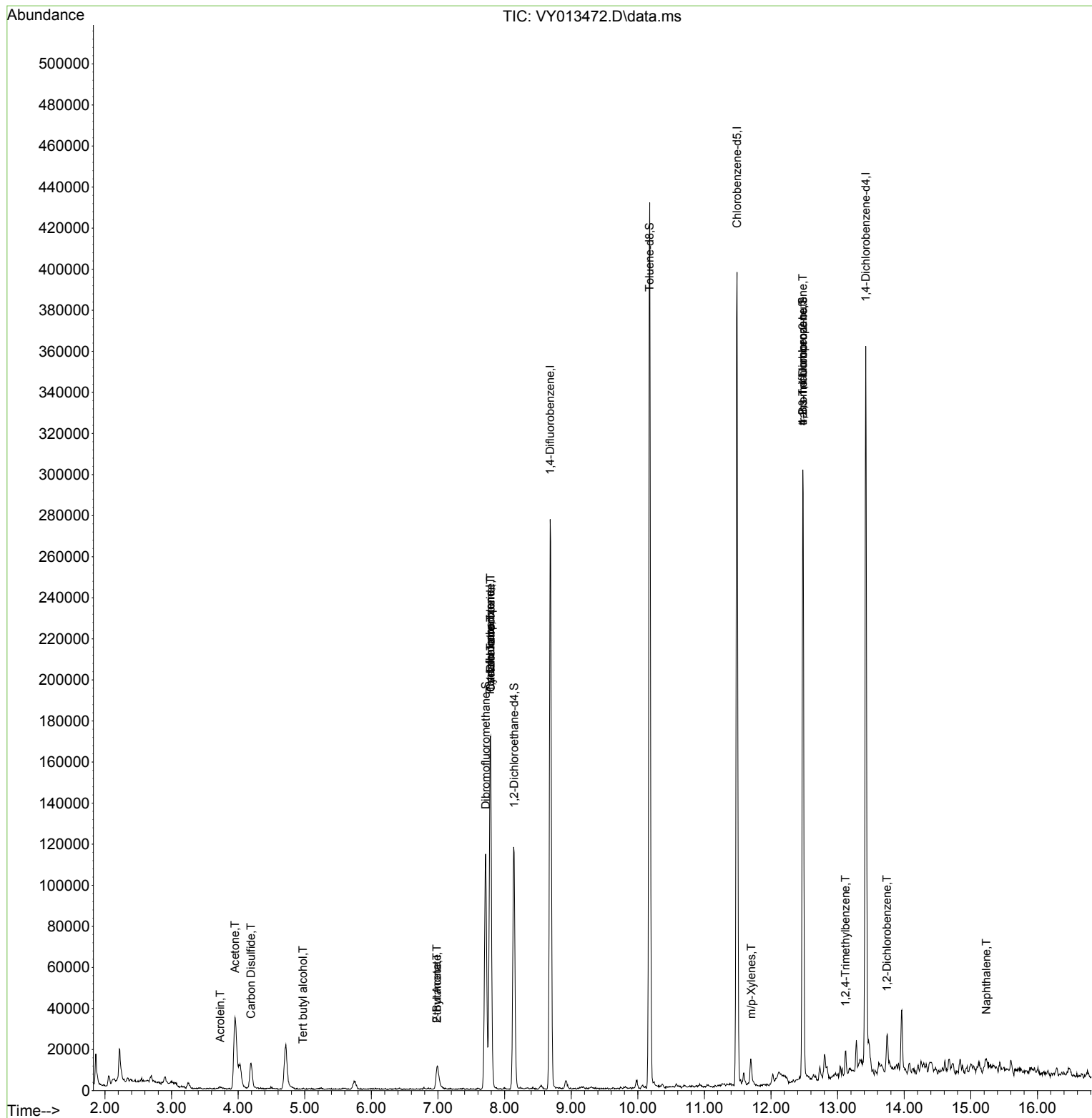
| Compound                      | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                         |                |      |                     |         |        |          |
| Internal Standards            |                |      |                     |         |        |          |
| 1) Pentafluorobenzene         | 7.783          | 168  | 124977              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.685          | 114  | 215944              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.489         | 117  | 201201              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.422         | 152  | 81728               | 50.000  | ug/l   | 0.00     |
|                               |                |      |                     |         |        |          |
| System Monitoring Compounds   |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.143          | 65   | 93827               | 68.486  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 136.980% |         |        |          |
| 35) Dibromofluoromethane      | 7.716          | 113  | 77482               | 57.048  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 114.100% |         |        |          |
| 50) Toluene-d8                | 10.179         | 98   | 272921              | 56.486  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 134 |      | Recovery = 112.980% |         |        |          |
| 62) 4-Bromofluorobenzene      | 12.477         | 95   | 86233               | 52.941  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 30 - 143 |      | Recovery = 105.880% |         |        |          |
|                               |                |      |                     |         |        |          |
| Target Compounds              |                |      |                     |         | Qvalue |          |
| 11) Tert butyl alcohol        | 4.972          | 59   | 155                 | 1.652   | ug/l # | 89       |
| 13) Acrolein                  | 3.729          | 56   | 1334                | 2.374   | ug/l   | 98       |
| 16) Acetone                   | 3.954          | 43   | 81085               | 150.289 | ug/l   | 98       |
| 17) Carbon Disulfide          | 4.192          | 76   | 24610               | 5.833   | ug/l   | 98       |
| 25) 2-Butanone                | 6.984          | 43   | 22015               | 32.174  | ug/l # | 87       |
| 31) Cyclohexane               | 7.789          | 56   | 3682                | 1.501   | ug/l # | 8        |
| 36) 1,1-Dichloropropene       | 7.789          | 75   | 11426               | 5.069   | ug/l # | 48       |
| 37) Ethyl Acetate             | 6.984          | 43   | 22015               | 12.978  | ug/l # | 69       |
| 38) Carbon Tetrachloride      | 7.789          | 117  | 12954               | 5.483   | ug/l # | 19       |
| 68) m/p-Xylenes               | 11.703         | 106  | 3135                | 1.071   | ug/l   | 89       |
| 76) 1,2,3-Trichloropropane    | 12.477         | 75   | 47386               | 42.992  | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.477         | 75   | 47386               | 87.943  | ug/l # | 13       |
| 84) 1,2,4-Trimethylbenzene    | 13.117         | 105  | 6112                | 1.246   | ug/l   | 94       |
| 91) 1,2-Dichlorobenzene       | 13.739         | 146  | 2761                | 1.071   | ug/l # | 62       |
| 95) Naphthalene               | 15.233         | 128  | 4359                | 1.308   | ug/l # | 83       |
| -----                         |                |      |                     |         |        |          |

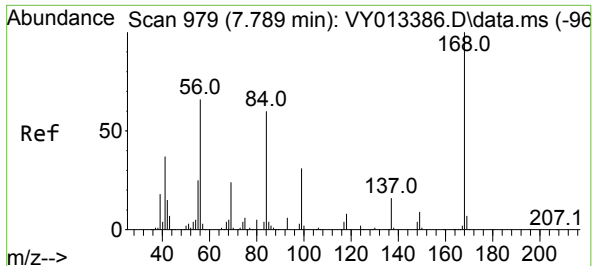
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY042623\  
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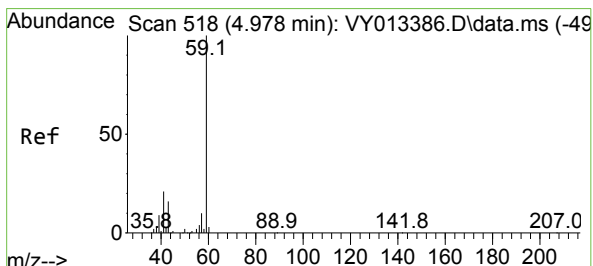
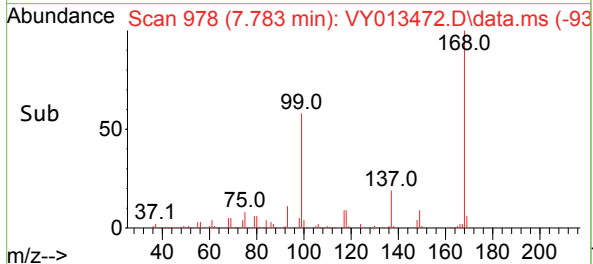
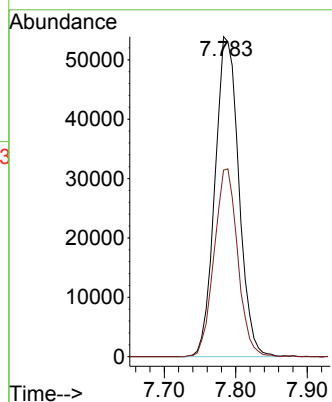
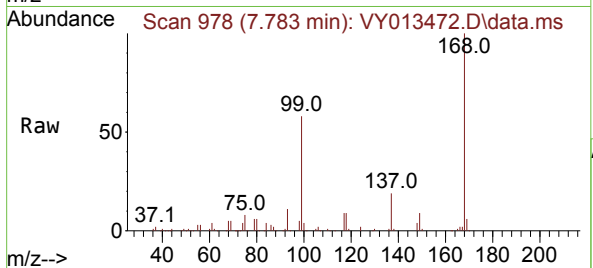




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VY013472.D  
Acq: 26 Apr 2023 14:43

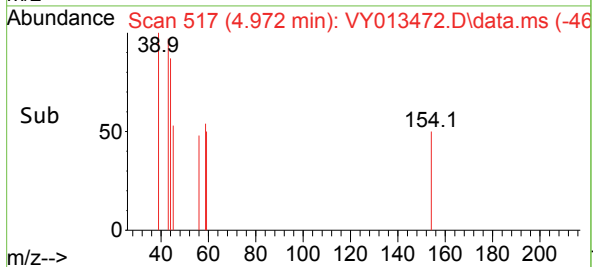
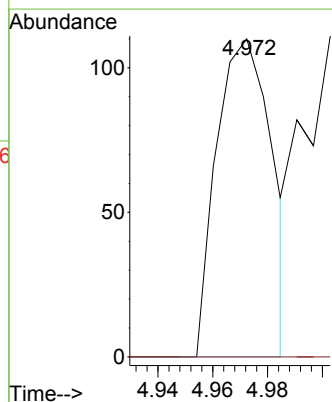
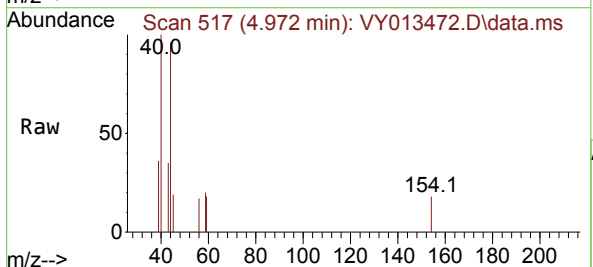
Instrument :  
MSVOA\_Y  
ClientSampleId :  
20230318-31-4

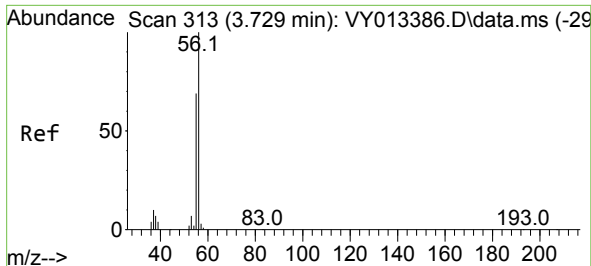
Tgt Ion:168 Resp: 124977  
Ion Ratio Lower Upper  
168 100  
99 58.3 41.8 62.6



#11  
Tert butyl alcohol  
Concen: 1.652 ug/l  
RT: 4.972 min Scan# 517  
Delta R.T. -0.006 min  
Lab File: VY013472.D  
Acq: 26 Apr 2023 14:43

Tgt Ion: 59 Resp: 155  
Ion Ratio Lower Upper  
59 100  
57 0.0 3.0 4.4#

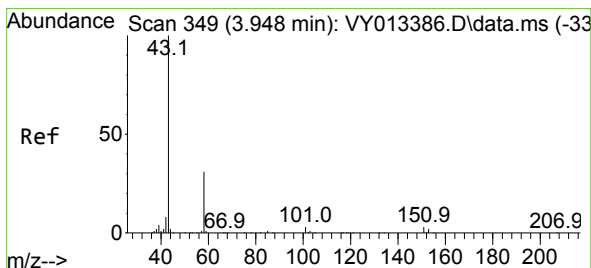
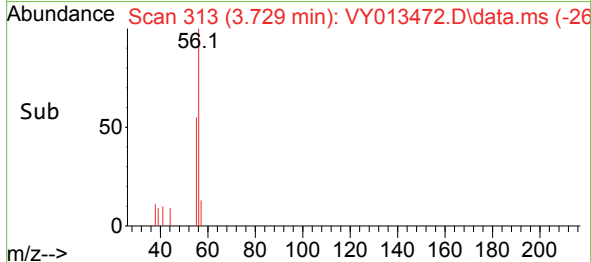
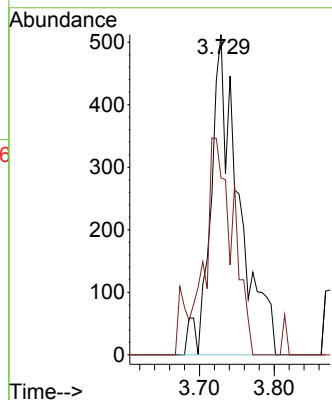
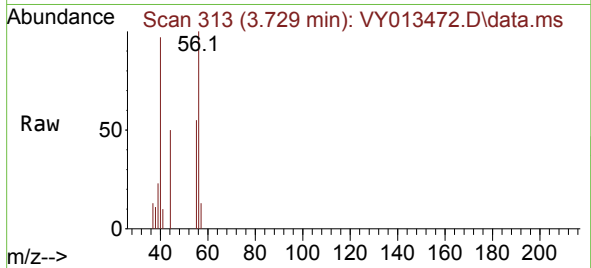




#13  
Acrolein  
Concen: 2.374 ug/l  
RT: 3.729 min Scan# 313  
Delta R.T. -0.000 min  
Lab File: VY013472.D  
Acq: 26 Apr 2023 14:43

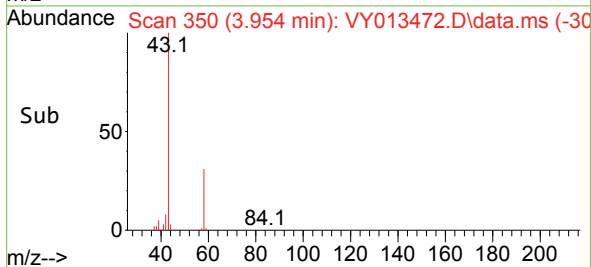
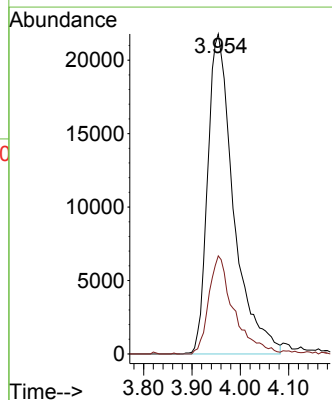
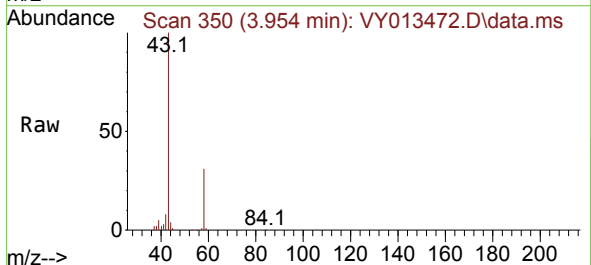
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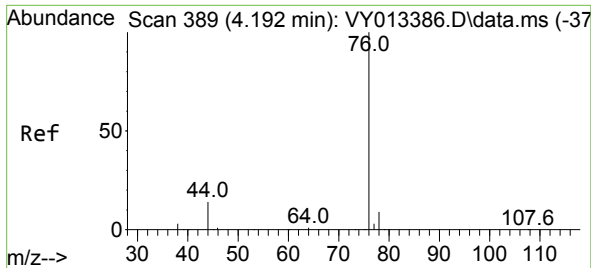
Tgt Ion: 56 Resp: 1334  
Ion Ratio Lower Upper  
56 100  
55 66.2 54.1 81.1



#16  
Acetone  
Concen: 150.289 ug/l  
RT: 3.954 min Scan# 350  
Delta R.T. 0.006 min  
Lab File: VY013472.D  
Acq: 26 Apr 2023 14:43

Tgt Ion: 43 Resp: 81085  
Ion Ratio Lower Upper  
43 100  
58 30.7 25.4 38.0

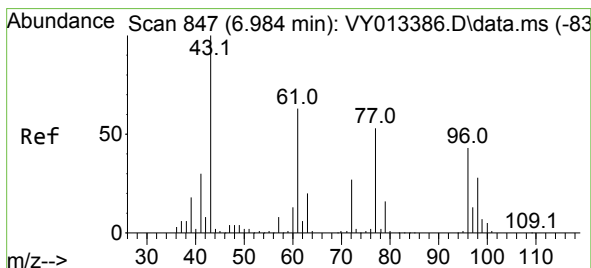
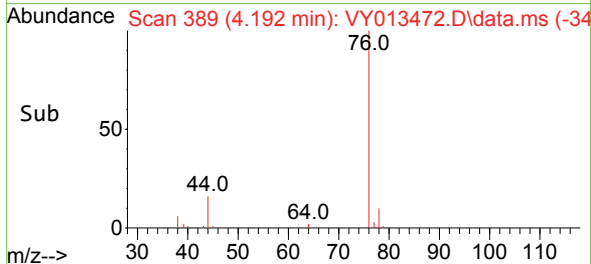
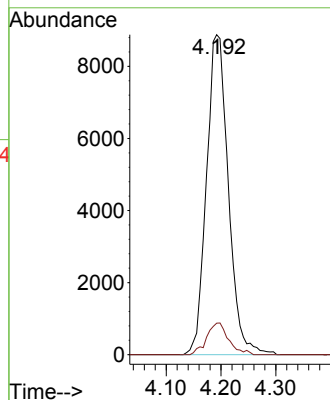
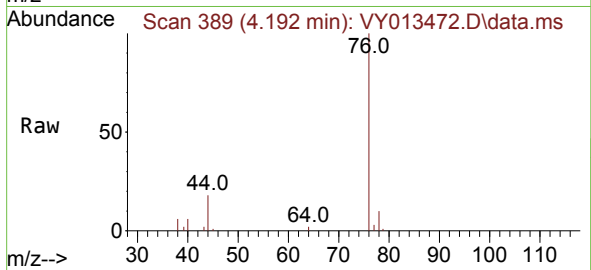




#17  
Carbon Disulfide  
Concen: 5.833 ug/l  
RT: 4.192 min Scan# 389  
Delta R.T. 0.000 min  
Lab File: VY013472.D  
Acq: 26 Apr 2023 14:43

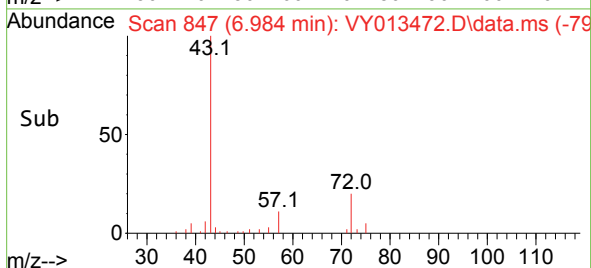
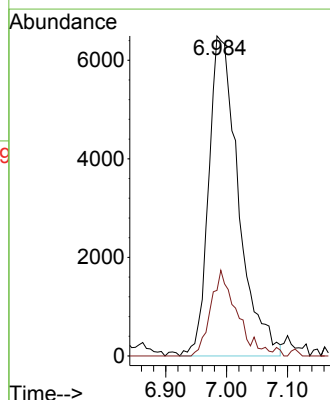
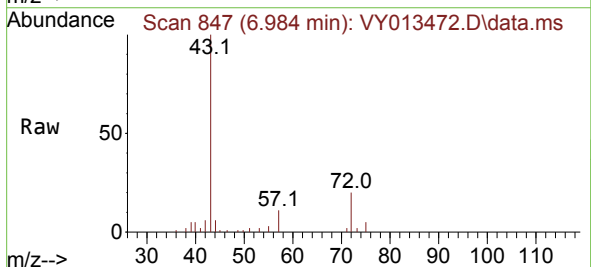
Instrument :  
MSVOA\_Y  
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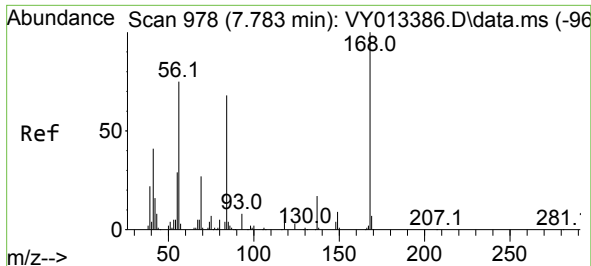
Tgt Ion: 76 Resp: 24610  
Ion Ratio Lower Upper  
76 100  
78 9.8 7.2 10.8



#25  
2-Butanone  
Concen: 32.174 ug/l  
RT: 6.984 min Scan# 847  
Delta R.T. 0.000 min  
Lab File: VY013472.D  
Acq: 26 Apr 2023 14:43

Tgt Ion: 43 Resp: 22015  
Ion Ratio Lower Upper  
43 100  
72 20.5 21.9 32.9#

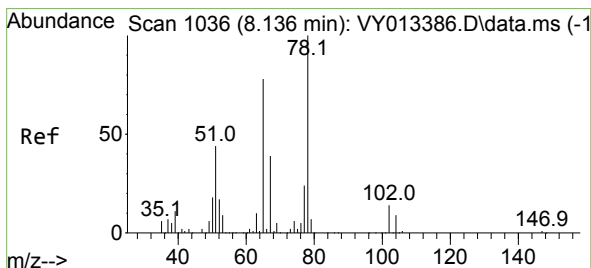
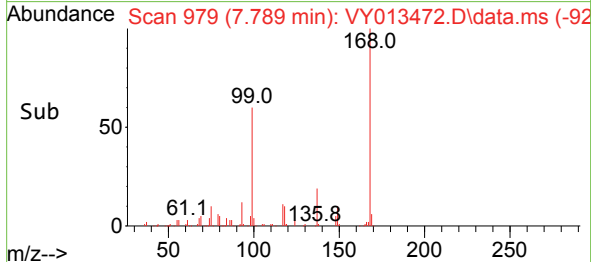
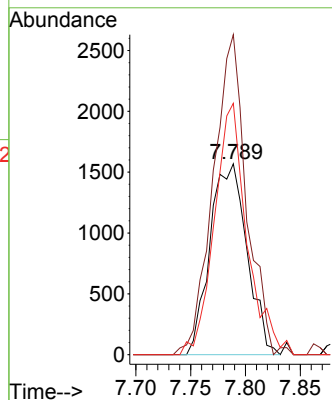
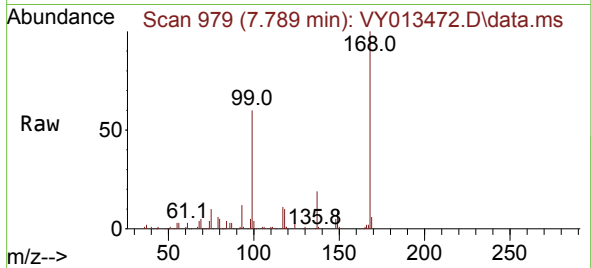




#31  
Cyclohexane  
Concen: 1.501 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY013472.D  
Acq: 26 Apr 2023 14:43

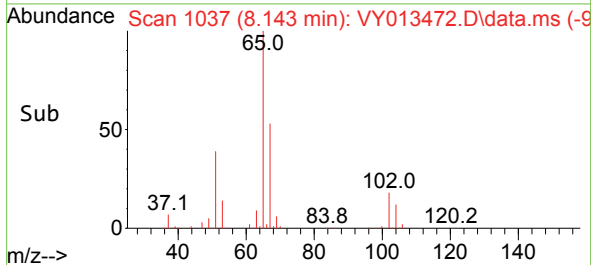
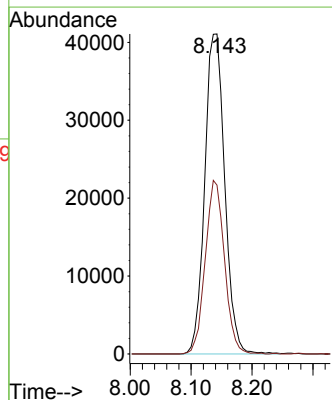
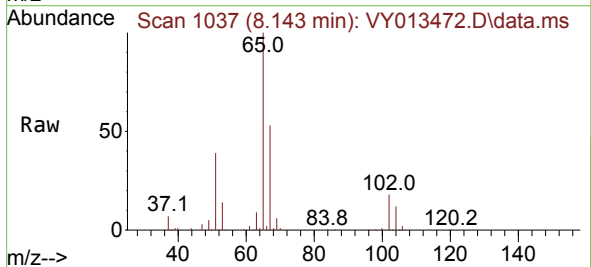
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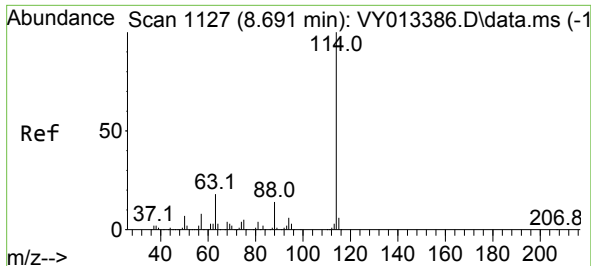
Tgt Ion: 56 Resp: 3682  
Ion Ratio Lower Upper  
56 100  
69 164.1 29.2 43.8#  
84 131.7 73.0 109.6#



#33  
1,2-Dichloroethane-d4  
Concen: 68.486 ug/l  
RT: 8.143 min Scan# 1037  
Delta R.T. 0.007 min  
Lab File: VY013472.D  
Acq: 26 Apr 2023 14:43

Tgt Ion: 65 Resp: 93827  
Ion Ratio Lower Upper  
65 100  
67 52.1 0.0 103.4

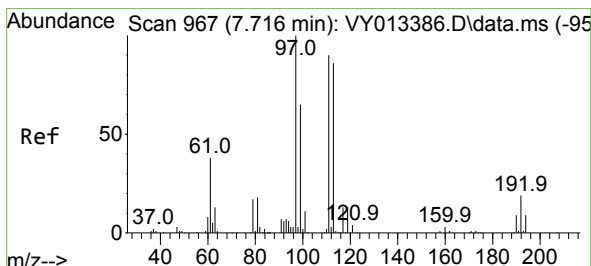
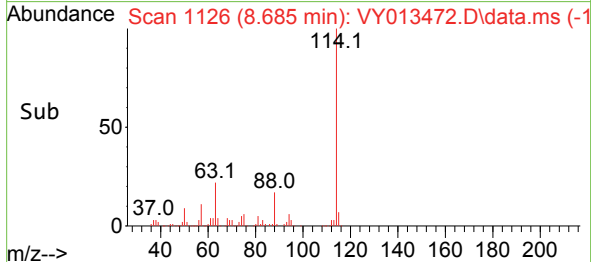
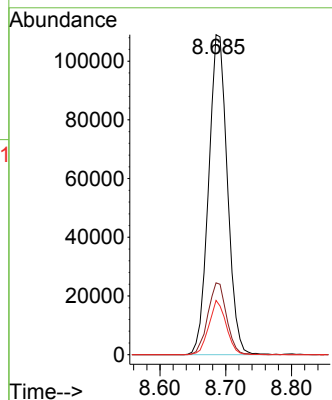
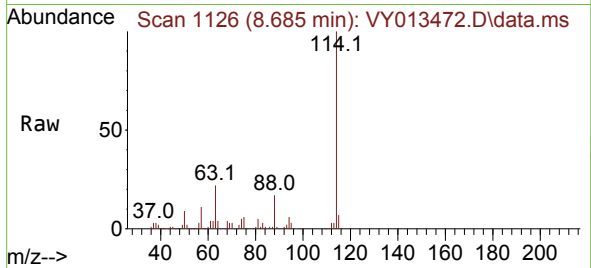




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.685 min Scan# 1127  
Delta R.T. -0.006 min  
Lab File: VY013472.D  
Acq: 26 Apr 2023 14:43

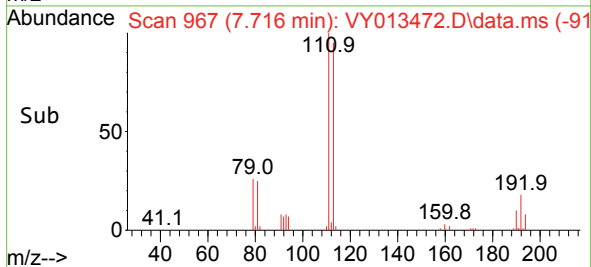
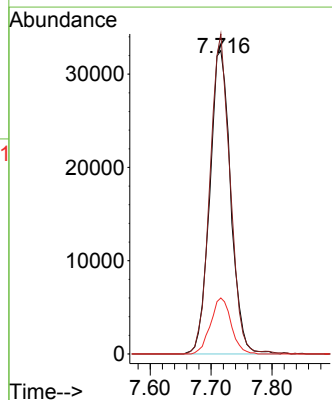
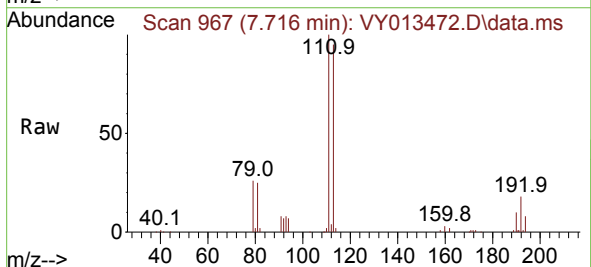
Instrument :  
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ClientSampleId :  
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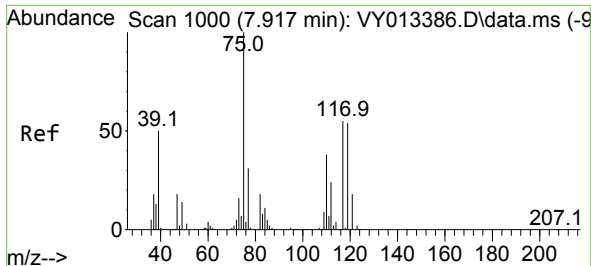
Tgt Ion:114 Resp: 215944  
Ion Ratio Lower Upper  
114 100  
63 22.4 0.0 36.6  
88 17.0 0.0 28.8



#35  
Dibromofluoromethane  
Concen: 57.048 ug/l  
RT: 7.716 min Scan# 967  
Delta R.T. -0.000 min  
Lab File: VY013472.D  
Acq: 26 Apr 2023 14:43

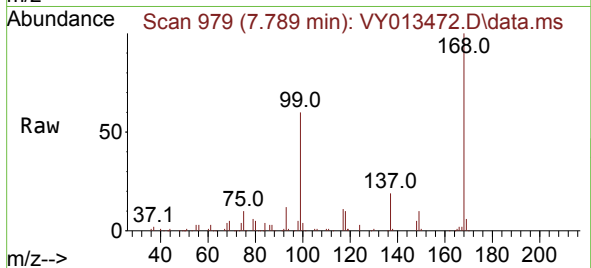
Tgt Ion:113 Resp: 77482  
Ion Ratio Lower Upper  
113 100  
111 102.2 82.2 123.2  
192 18.2 16.7 25.1



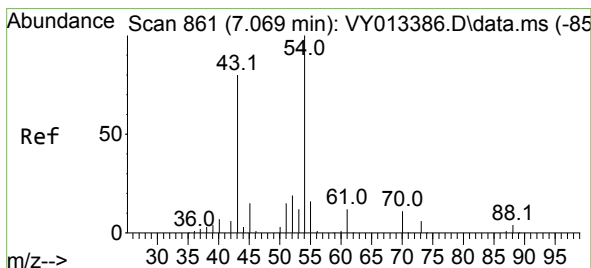
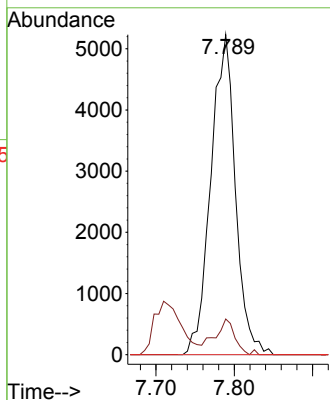
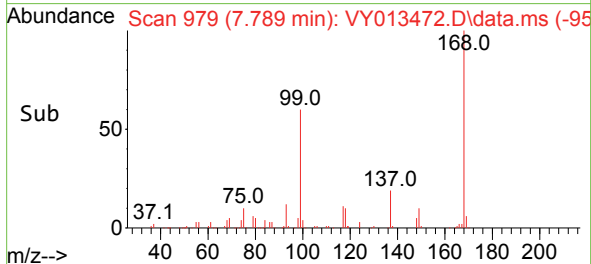


#36  
1,1-Dichloropropene  
Concen: 5.069 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. -0.128 min  
Lab File: VY013472.D  
Acq: 26 Apr 2023 14:43

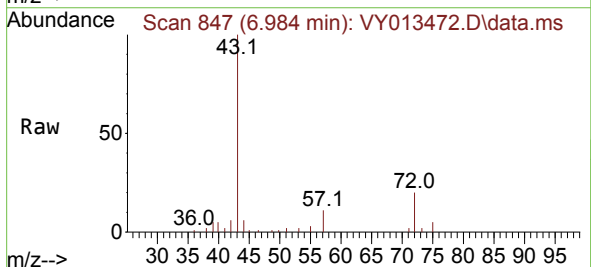
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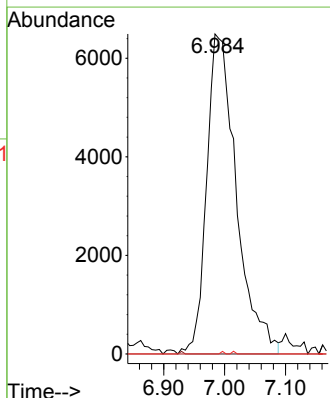
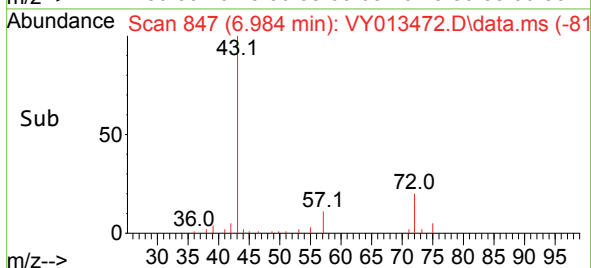
Tgt Ion: 75 Resp: 11426  
Ion Ratio Lower Upper  
75 100  
110 8.9 18.7 56.1#  
77 0.0 24.6 37.0#



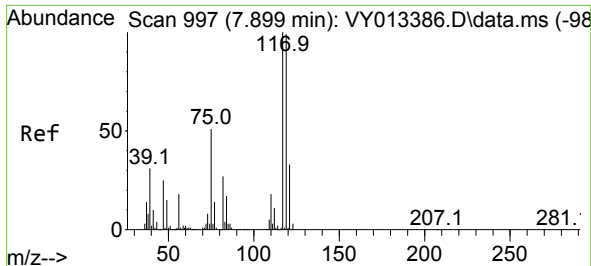
#37  
Ethyl Acetate  
Concen: 12.978 ug/l  
RT: 6.984 min Scan# 847  
Delta R.T. -0.085 min  
Lab File: VY013472.D  
Acq: 26 Apr 2023 14:43



Tgt Ion: 43 Resp: 22015  
Ion Ratio Lower Upper  
43 100  
61 0.0 11.4 17.0#  
70 0.1 7.9 11.9#



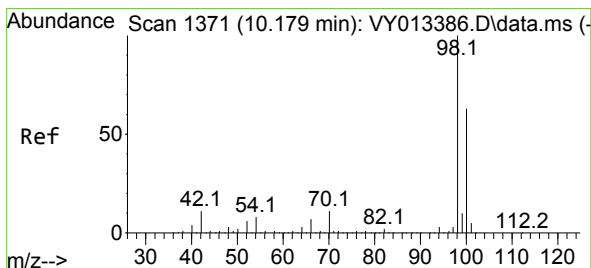
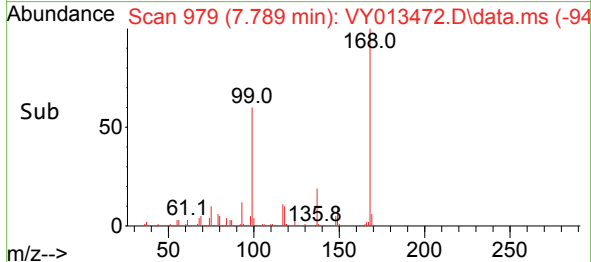
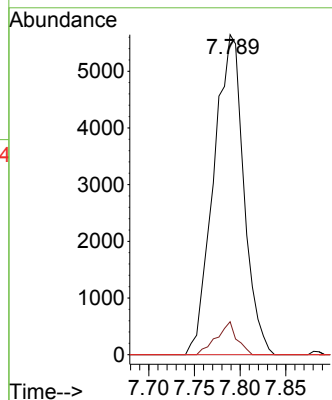
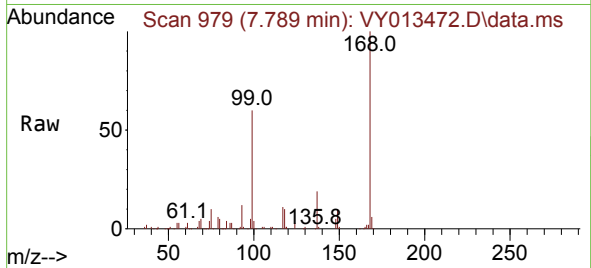




#38  
Carbon Tetrachloride  
Concen: 5.483 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. -0.110 min  
Lab File: VY013472.D  
Acq: 26 Apr 2023 14:43

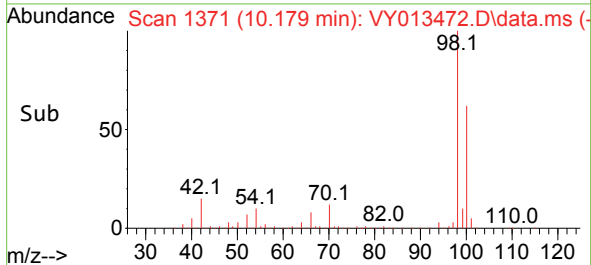
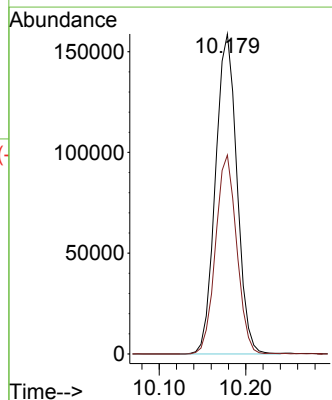
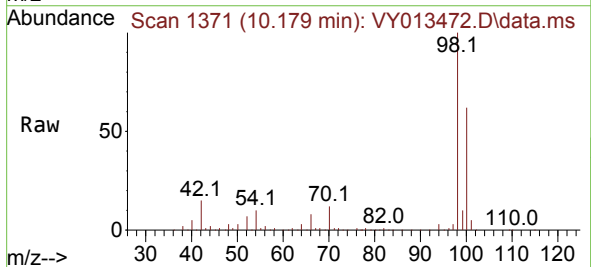
Instrument :  
MSVOA\_Y  
ClientSampleId :  
20230318-31-4

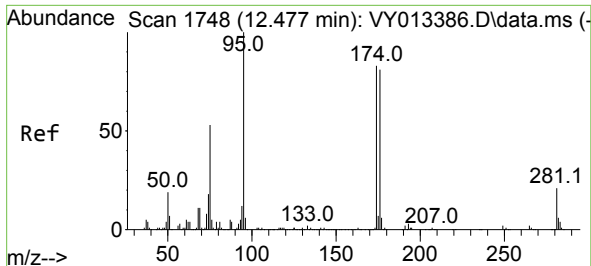
Tgt Ion:117 Resp: 12954  
Ion Ratio Lower Upper  
117 100  
119 10.3 79.0 118.6#  
121 0.0 26.6 40.0#



#50  
Toluene-d8  
Concen: 56.486 ug/l  
RT: 10.179 min Scan# 1371  
Delta R.T. -0.000 min  
Lab File: VY013472.D  
Acq: 26 Apr 2023 14:43

Tgt Ion: 98 Resp: 272921  
Ion Ratio Lower Upper  
98 100  
100 61.2 50.5 75.7

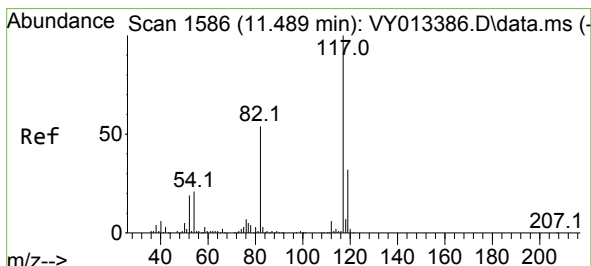
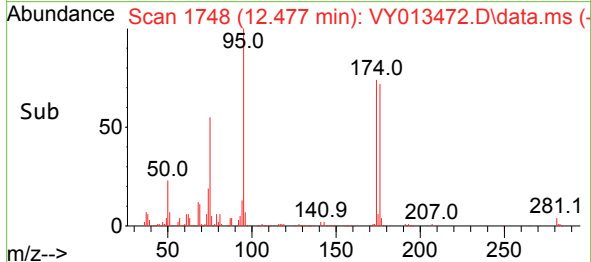
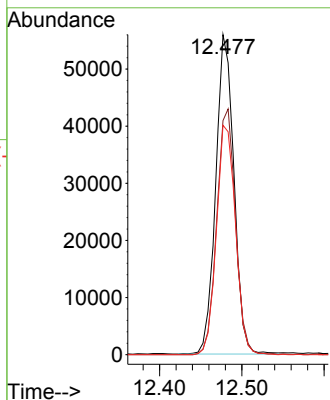
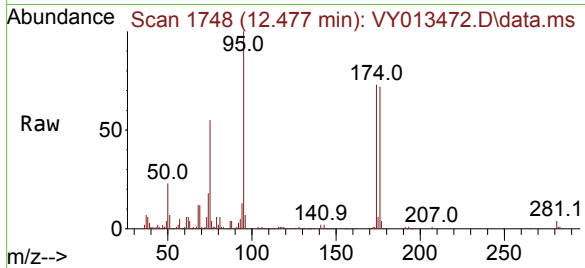




#62  
4-Bromofluorobenzene  
Concen: 52.941 ug/l  
RT: 12.477 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VY013472.D  
Acq: 26 Apr 2023 14:43

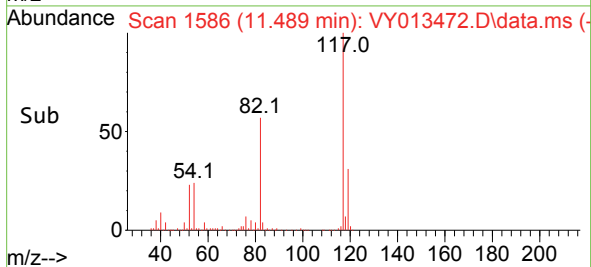
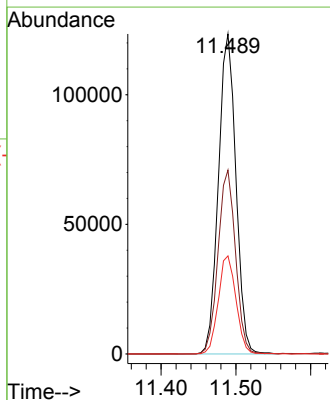
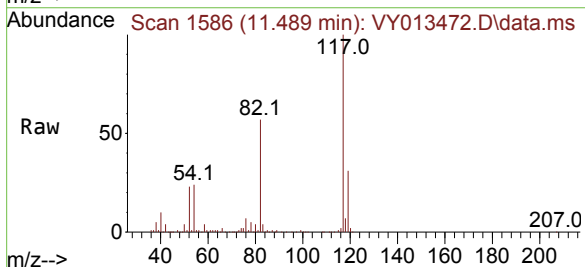
Instrument :  
MSVOA\_Y  
ClientSampleId :  
20230318-31-4

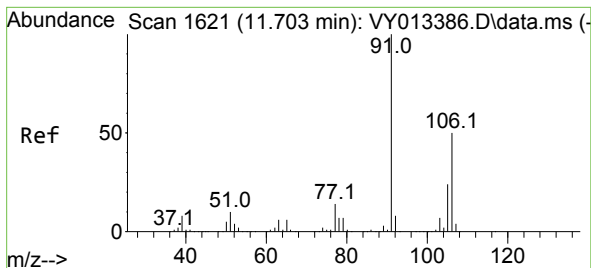
Tgt Ion: 95 Resp: 86233  
Ion Ratio Lower Upper  
95 100  
174 79.2 0.0 182.0  
176 75.1 0.0 175.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.489 min Scan# 1586  
Delta R.T. 0.000 min  
Lab File: VY013472.D  
Acq: 26 Apr 2023 14:43

Tgt Ion: 117 Resp: 201201  
Ion Ratio Lower Upper  
117 100  
82 57.4 43.0 64.6  
119 30.6 25.5 38.3

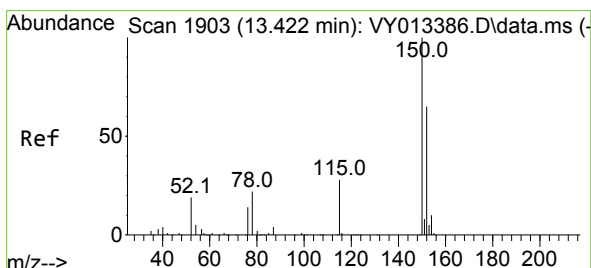
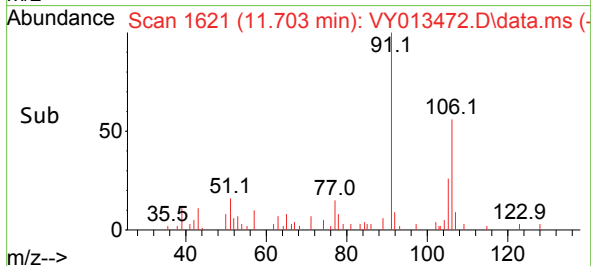
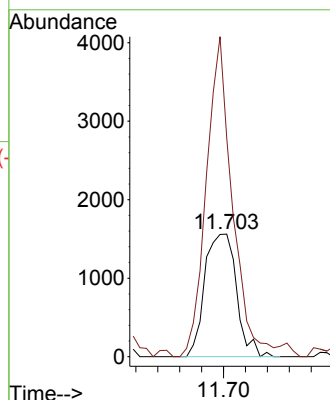
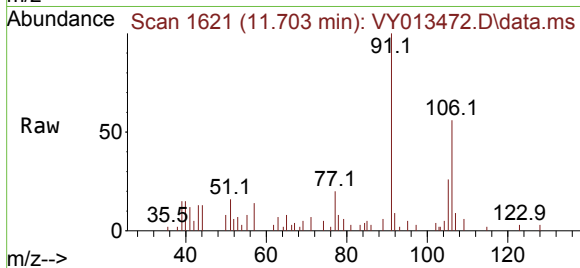




#68  
m/p-Xylenes  
Concen: 1.071 ug/l  
RT: 11.703 min Scan# 1621  
Delta R.T. -0.000 min  
Lab File: VY013472.D  
Acq: 26 Apr 2023 14:43

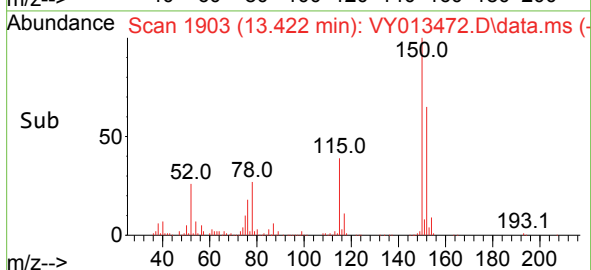
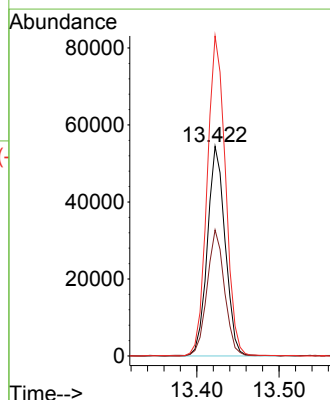
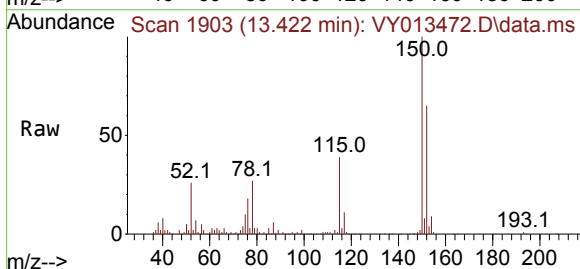
Instrument :  
MSVOA\_Y  
ClientSampleId :  
20230318-31-4

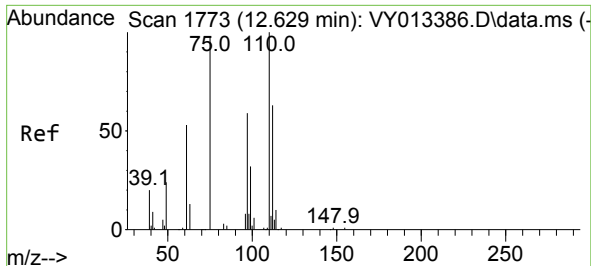
Tgt Ion:106 Resp: 3135  
Ion Ratio Lower Upper  
106 100  
91 218.0 160.9 241.3



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.422 min Scan# 1903  
Delta R.T. 0.000 min  
Lab File: VY013472.D  
Acq: 26 Apr 2023 14:43

Tgt Ion:152 Resp: 81728  
Ion Ratio Lower Upper  
152 100  
115 59.4 28.1 84.2  
150 157.6 0.0 352.0

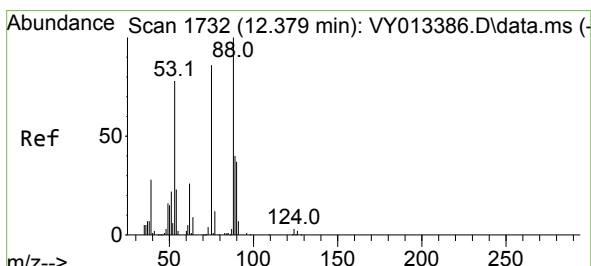
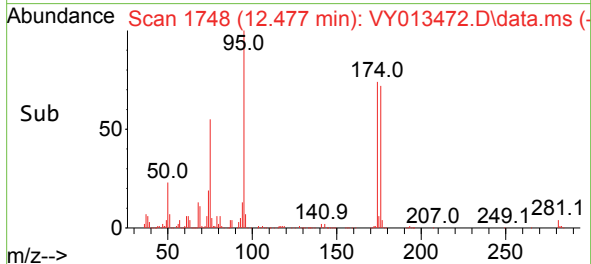
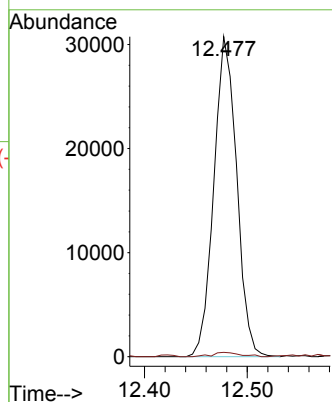
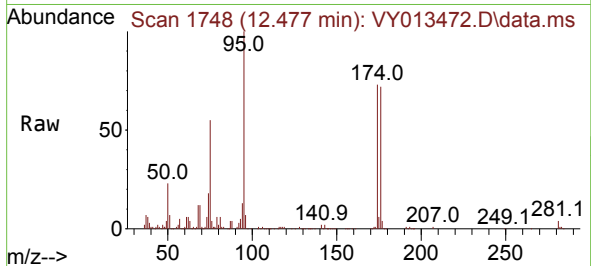




#76  
1,2,3-Trichloropropane  
Concen: 42.992 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. -0.152 min  
Lab File: VY013472.D  
Acq: 26 Apr 2023 14:43

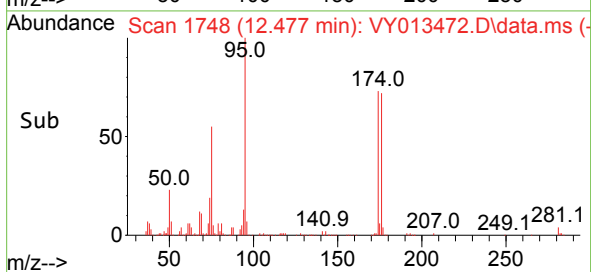
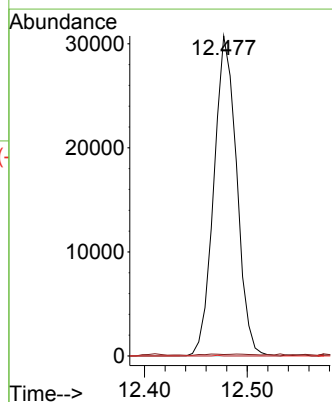
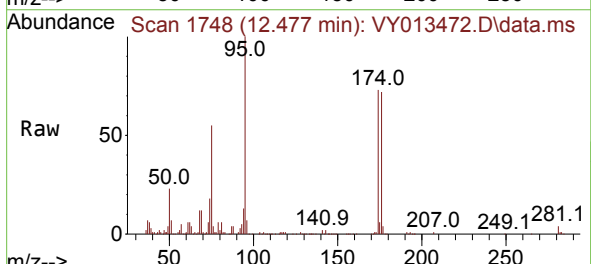
Instrument :  
MSVOA\_Y  
ClientSampleId :  
20230318-31-4

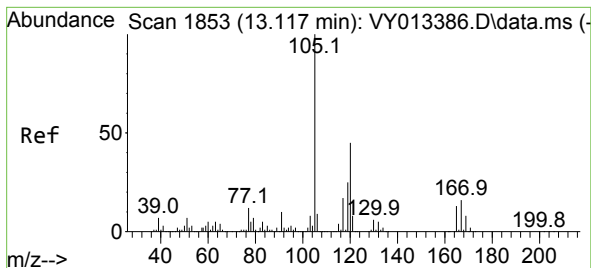
Tgt Ion: 75 Resp: 47386  
Ion Ratio Lower Upper  
75 100  
77 1.7 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 87.943 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. 0.098 min  
Lab File: VY013472.D  
Acq: 26 Apr 2023 14:43

Tgt Ion: 75 Resp: 47386  
Ion Ratio Lower Upper  
75 100  
53 0.4 73.2 109.8#  
89 0.1 38.0 57.0#





#84

1,2,4-Trimethylbenzene

Concen: 1.246 ug/l

RT: 13.117 min Scan# 1853

Delta R.T. 0.000 min

Lab File: VY013472.D

Acq: 26 Apr 2023 14:43

Instrument :

MSVOA\_Y

ClientSampleId :

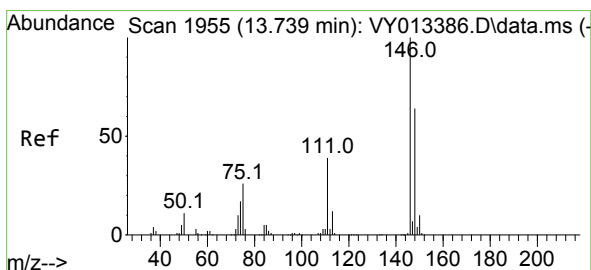
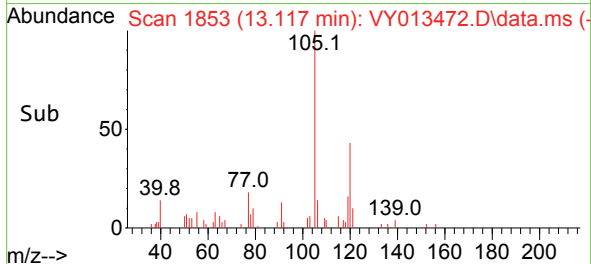
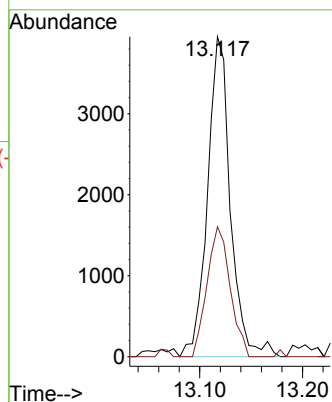
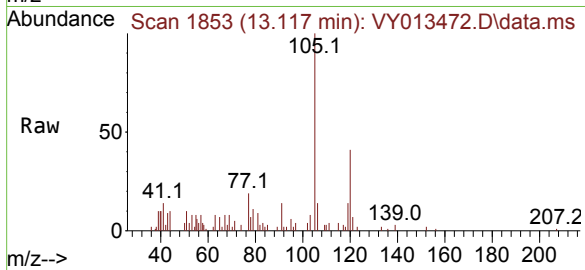
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Tgt Ion:105 Resp: 6112

Ion Ratio Lower Upper

105 100

120 41.0 22.3 66.9



#91

1,2-Dichlorobenzene

Concen: 1.071 ug/l

RT: 13.739 min Scan# 1955

Delta R.T. 0.000 min

Lab File: VY013472.D

Acq: 26 Apr 2023 14:43

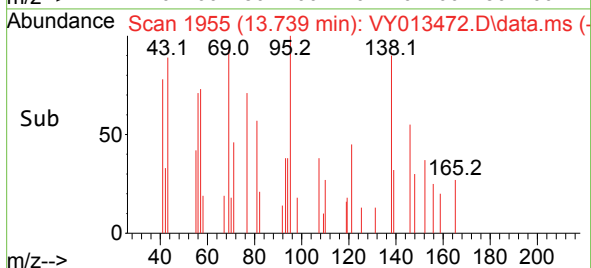
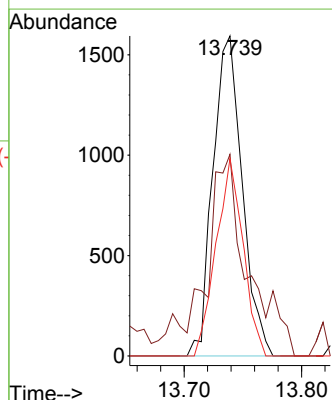
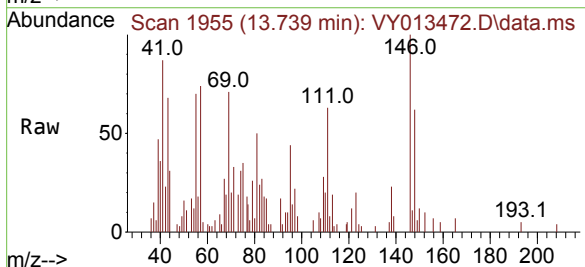
Tgt Ion:146 Resp: 2761

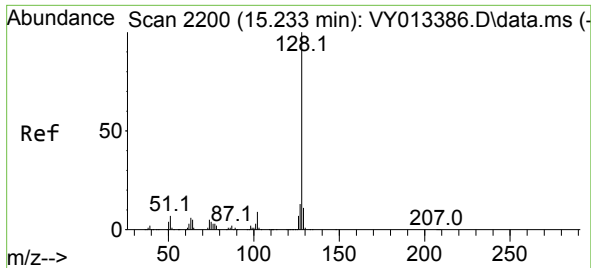
Ion Ratio Lower Upper

146 100

111 92.3 19.8 59.4#

148 56.9 31.8 95.4





#95

Naphthalene

Concen: 1.308 ug/l

RT: 15.233 min Scan# 21

Delta R.T. -0.000 min

Lab File: VY013472.D

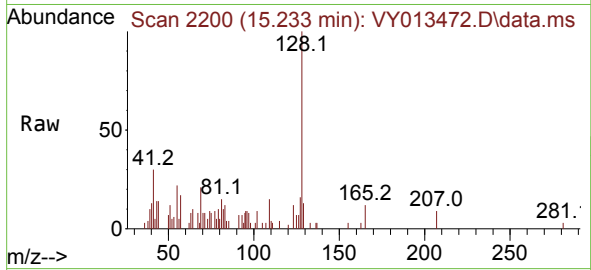
Acq: 26 Apr 2023 14:43

Instrument :

MSVOA\_Y

ClientSampleId :

20230318-31-4



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 4359  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 21.7  | 10.7  | 16.1# |
| 129      | 15.3  | 8.8   | 13.2# |

