

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY050523\  
 Data File : VY013633.D  
 Acq On : 05 May 2023 18:15  
 Operator : KP/MD  
 Sample : 02588-07  
 Misc : 4.17g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 ZONE-A-0-3-05022023

Quant Time: May 08 00:25:43 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

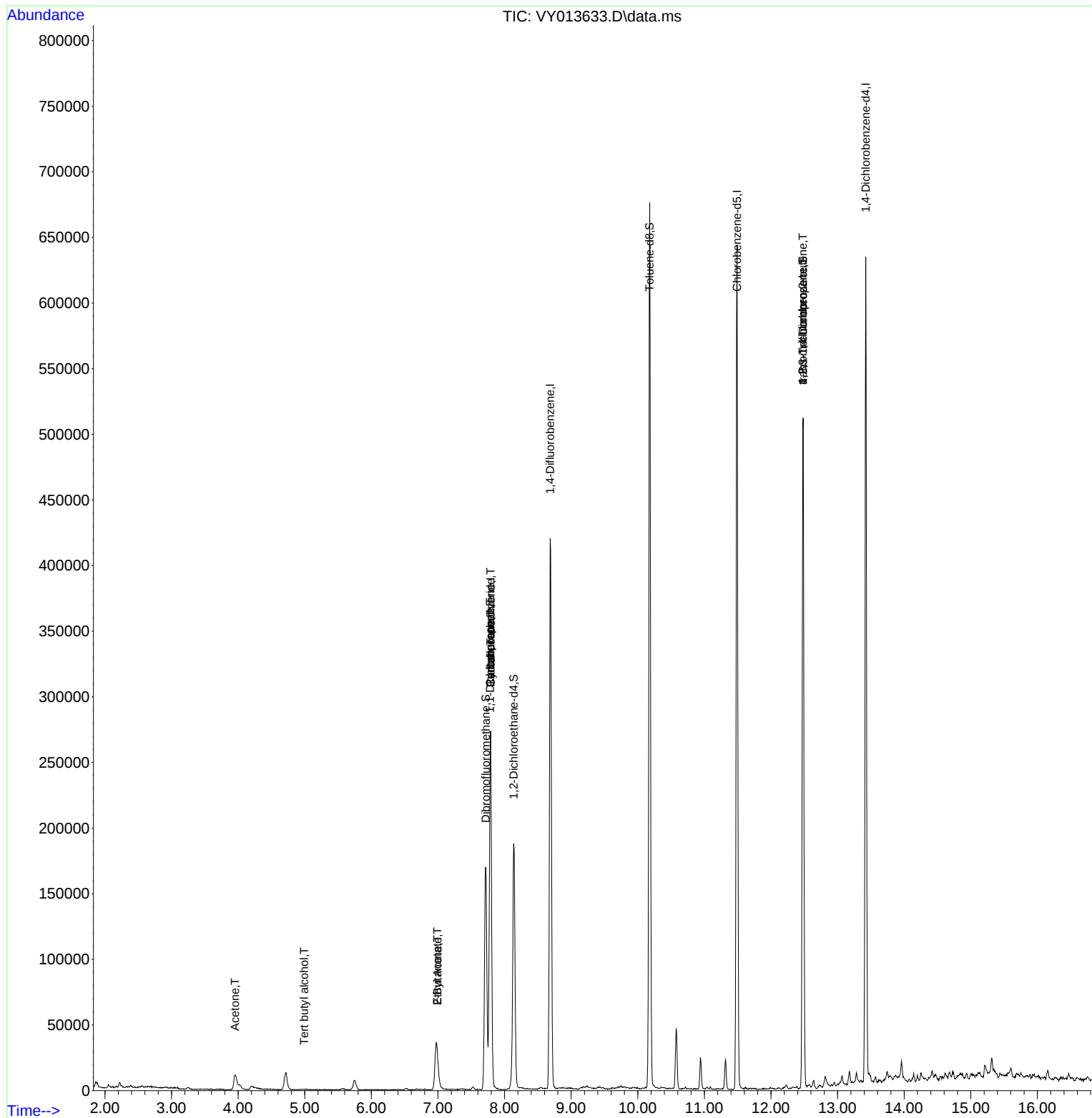
| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 7.789          | 168  | 209282              | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.685          | 114  | 356593              | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.490         | 117  | 343767              | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.422         | 152  | 157163              | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.137          | 65   | 150809              | 65.735    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 131.480% |           |        |          |
| 35) Dibromofluoromethane      | 7.716          | 113  | 120769              | 53.847    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 107.700% |           |        |          |
| 50) Toluene-d8                | 10.179         | 98   | 431724              | 54.110    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 134 |      | Recovery = 108.220% |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.477         | 95   | 141528              | 52.617    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 30 - 143 |      | Recovery = 105.240% |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      | Qvalue              |           |        |          |
| 11) Tert butyl alcohol        | 4.991          | 59   | 229                 | 1.534     | ug/l # | 89       |
| 13) Acrolein                  | 3.717          | 56   | 51                  | Below Cal | #      | 1        |
| 16) Acetone                   | 3.954          | 43   | 25868               | 28.632    | ug/l   | 95       |
| 20) Methylene Chloride        | 4.716          | 84   | 9271                | Below Cal | #      | 84       |
| 25) 2-Butanone                | 6.990          | 43   | 9068                | 7.914     | ug/l   | 95       |
| 31) Cyclohexane               | 7.789          | 56   | 4244                | 1.033     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 7.783          | 75   | 15717               | 4.222     | ug/l # | 49       |
| 37) Ethyl Acetate             | 6.990          | 43   | 9068                | 3.237     | ug/l # | 69       |
| 38) Carbon Tetrachloride      | 7.789          | 117  | 21265               | 5.451     | ug/l # | 17       |
| 76) 1,2,3-Trichloropropane    | 12.477         | 75   | 76450               | 36.069    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.477         | 75   | 76450               | 73.782    | ug/l # | 13       |
| -----                         |                |      |                     |           |        |          |

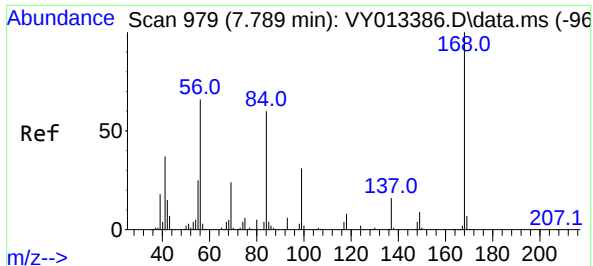
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY050523\  
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Sample : 02588-07  
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ALS Vial : 22 Sample Multiplier: 1

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MSVOA\_Y  
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ZONE-A-0-3-05022023

Quant Time: May 08 00:25:43 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

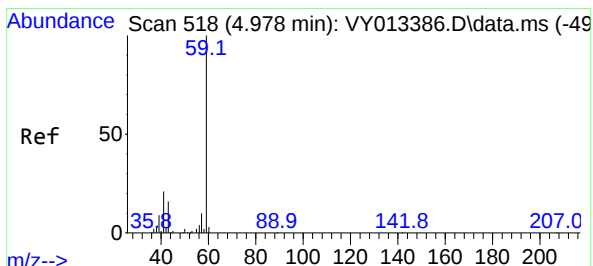
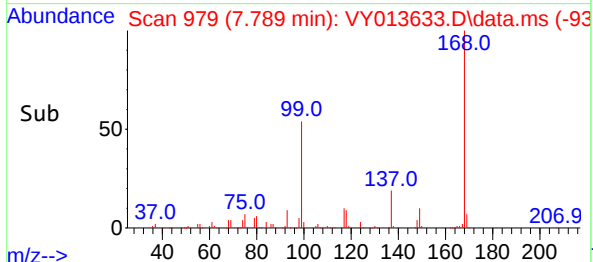
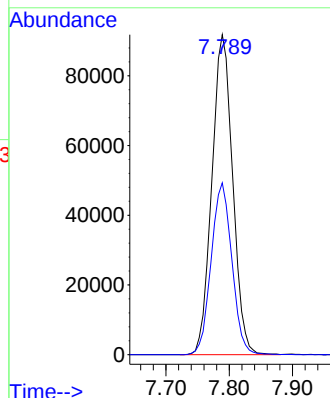
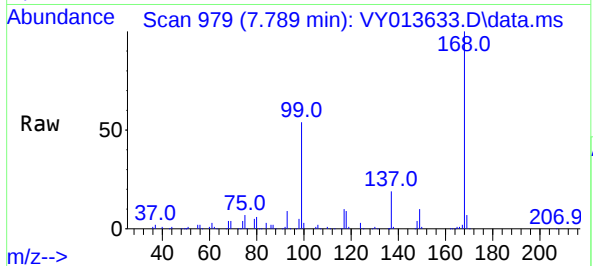




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VY013633.D  
Acq: 05 May 2023 18:15

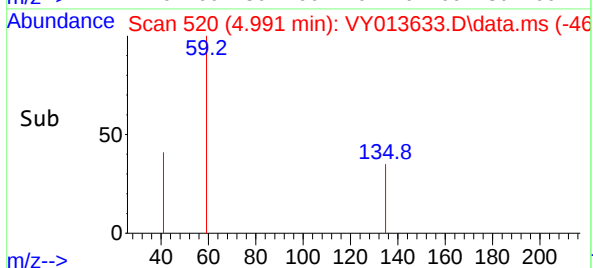
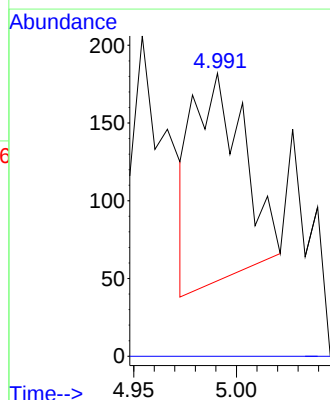
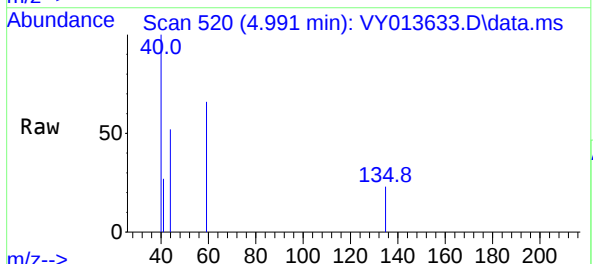
Instrument :  
MSVOA\_Y  
ClientSampleId :  
ZONE-A-0-3-05022023

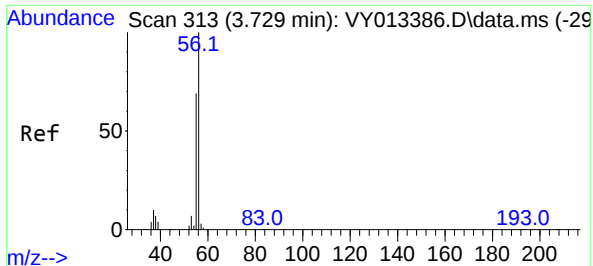
Tgt Ion:168 Resp: 209282  
Ion Ratio Lower Upper  
168 100  
99 53.7 41.8 62.6



#11  
Tert butyl alcohol  
Concen: 1.534 ug/l  
RT: 4.991 min Scan# 520  
Delta R.T. 0.013 min  
Lab File: VY013633.D  
Acq: 05 May 2023 18:15

Tgt Ion: 59 Resp: 229  
Ion Ratio Lower Upper  
59 100  
57 0.0 3.0 4.4#

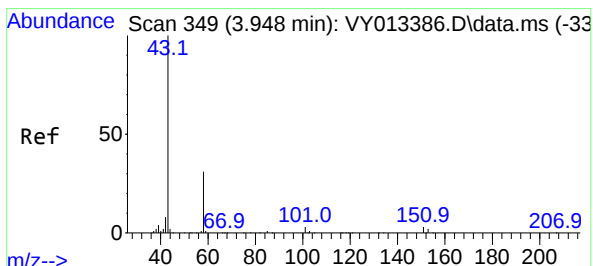
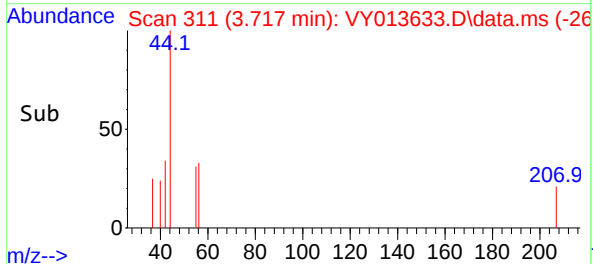
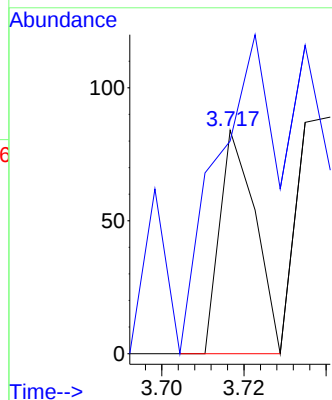
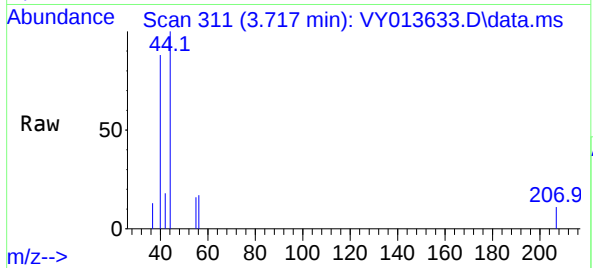




#13  
Acrolein  
Concen: Below Cal  
RT: 3.717 min Scan# 311  
Delta R.T. -0.012 min  
Lab File: VY013633.D  
Acq: 05 May 2023 18:15

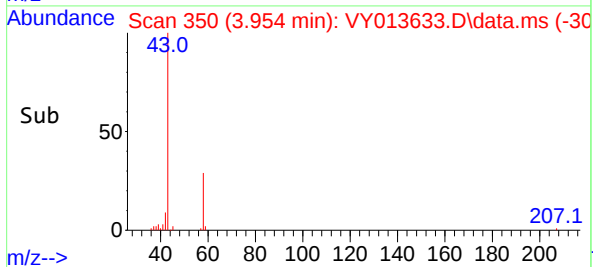
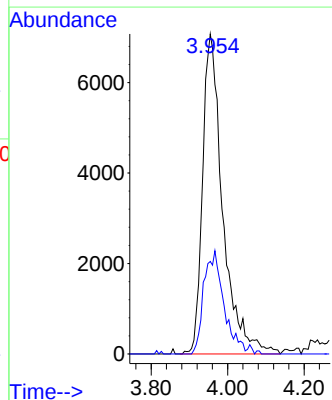
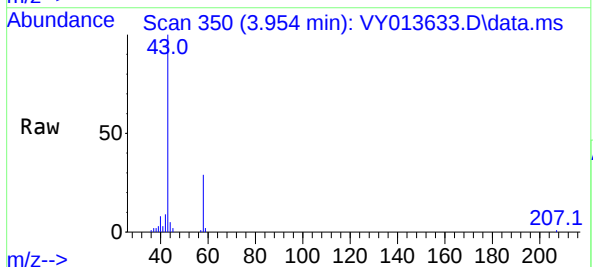
Instrument :  
MSVOA\_Y  
ClientSampleId :  
ZONE-A-0-3-05022023

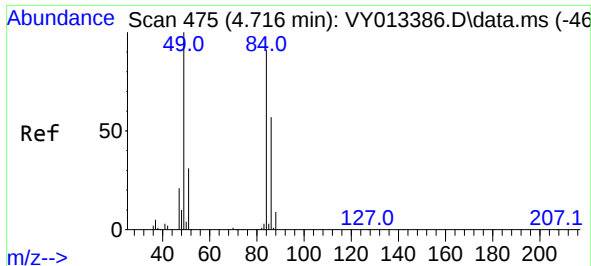
Tgt Ion: 56 Resp: 51  
Ion Ratio Lower Upper  
56 100  
55 368.6 54.1 81.1#



#16  
Acetone  
Concen: 28.632 ug/l  
RT: 3.954 min Scan# 350  
Delta R.T. 0.006 min  
Lab File: VY013633.D  
Acq: 05 May 2023 18:15

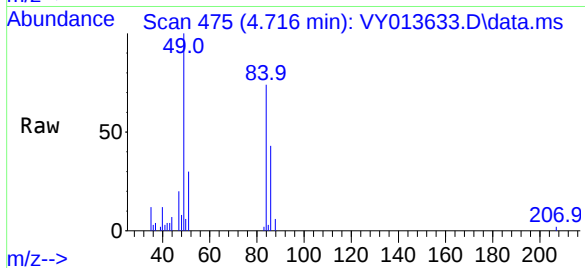
Tgt Ion: 43 Resp: 25868  
Ion Ratio Lower Upper  
43 100  
58 28.9 25.4 38.0



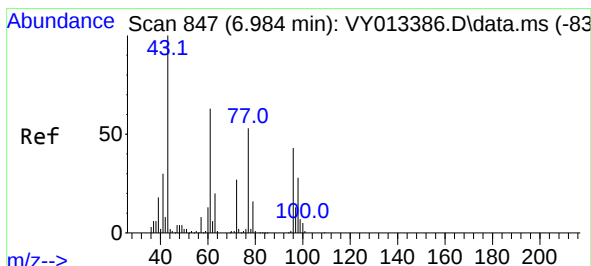
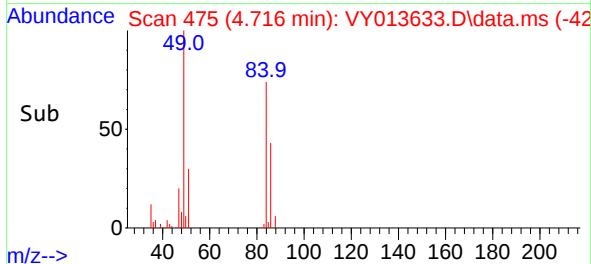
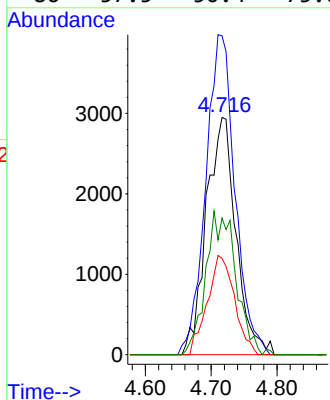


#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.716 min Scan# 41  
Delta R.T. 0.000 min  
Lab File: VY013633.D  
Acq: 05 May 2023 18:15

Instrument :  
MSVOA\_Y  
ClientSampleId :  
ZONE-A-0-3-05022023

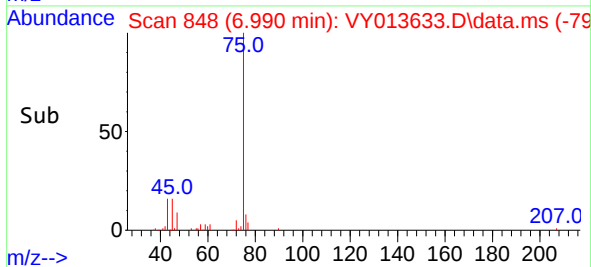
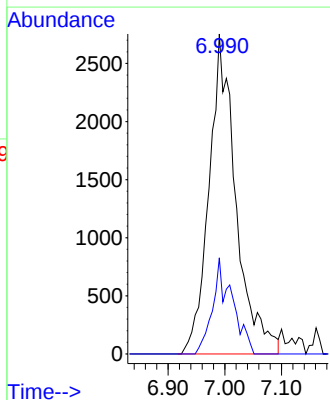
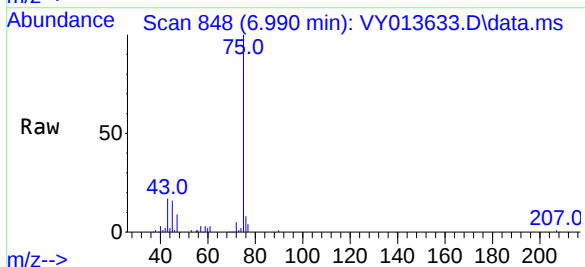


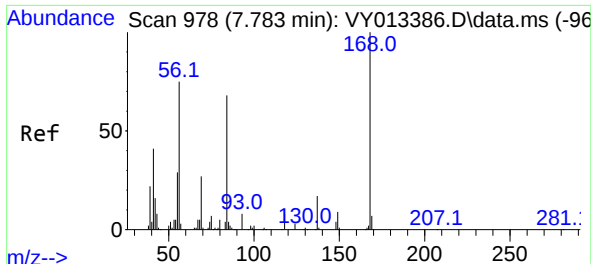
Tgt Ion: 84 Resp: 9271  
Ion Ratio Lower Upper  
84 100  
49 134.4 88.0 132.0#  
51 40.6 27.4 41.0  
86 57.5 50.4 75.6



#25  
2-Butanone  
Concen: 7.914 ug/l  
RT: 6.990 min Scan# 848  
Delta R.T. 0.006 min  
Lab File: VY013633.D  
Acq: 05 May 2023 18:15

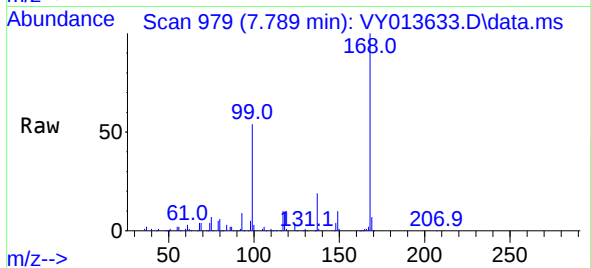
Tgt Ion: 43 Resp: 9068  
Ion Ratio Lower Upper  
43 100  
72 30.0 21.9 32.9



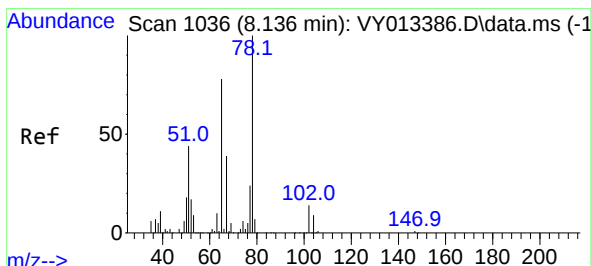
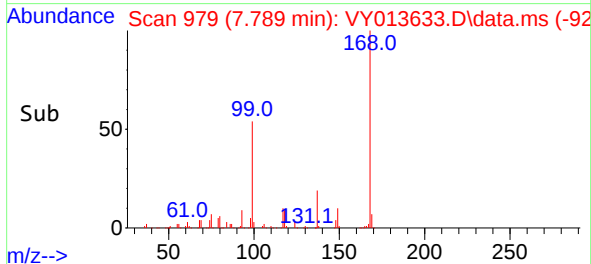
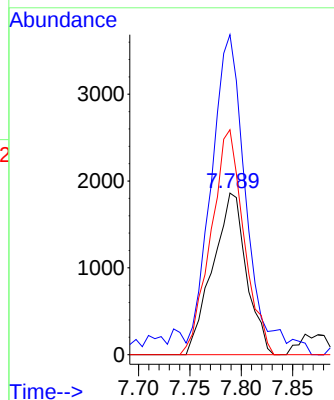


#31  
Cyclohexane  
Concen: 1.033 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY013633.D  
Acq: 05 May 2023 18:15

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ClientSampleId :  
ZONE-A-0-3-05022023

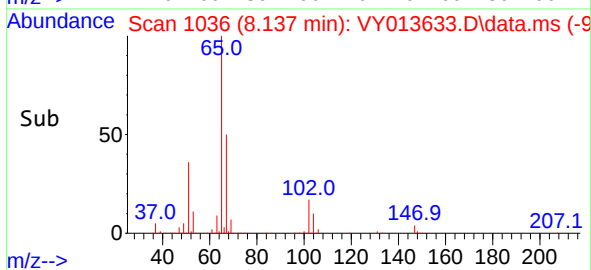
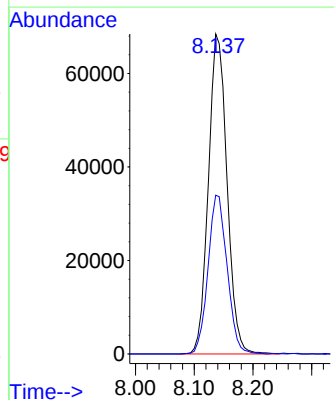
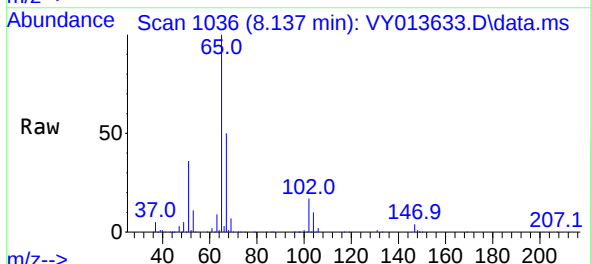


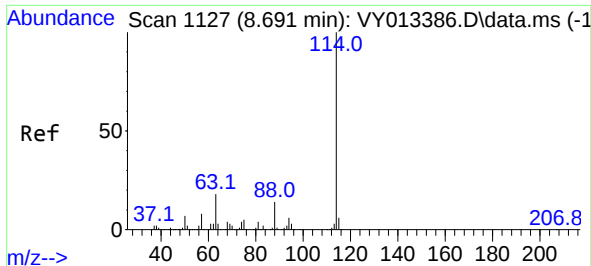
Tgt Ion: 56 Resp: 4244  
Ion Ratio Lower Upper  
56 100  
69 184.2 29.2 43.8#  
84 139.2 73.0 109.6#



#33  
1,2-Dichloroethane-d4  
Concen: 65.735 ug/l  
RT: 8.137 min Scan# 1036  
Delta R.T. 0.001 min  
Lab File: VY013633.D  
Acq: 05 May 2023 18:15

Tgt Ion: 65 Resp: 150809  
Ion Ratio Lower Upper  
65 100  
67 50.9 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: VY013633.D

Acq: 05 May 2023 18:15

Instrument :

MSVOA\_Y

ClientSampleId :

ZONE-A-0-3-05022023

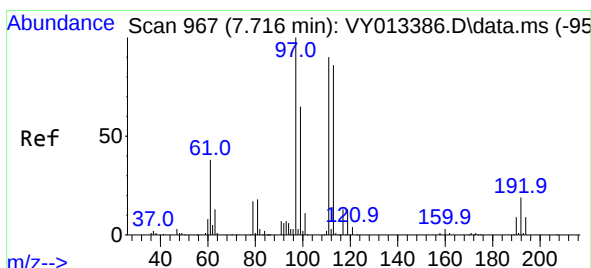
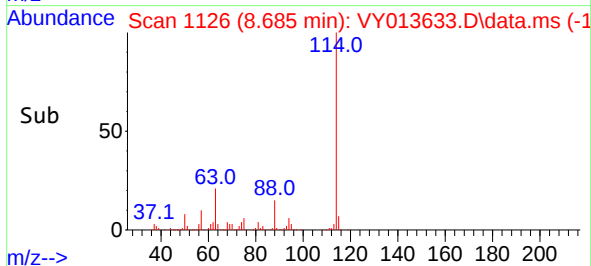
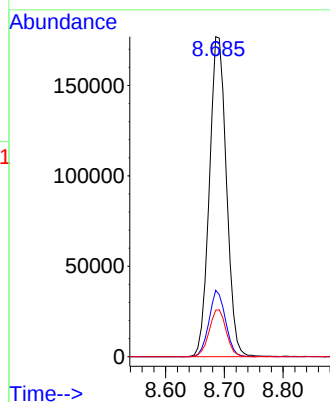
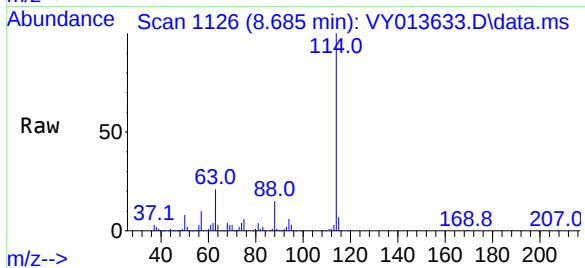
Tgt Ion:114 Resp: 356593

Ion Ratio Lower Upper

114 100

63 20.7 0.0 36.6

88 14.5 0.0 28.8



#35

Dibromofluoromethane

Concen: 53.847 ug/l

RT: 7.716 min Scan# 967

Delta R.T. -0.000 min

Lab File: VY013633.D

Acq: 05 May 2023 18:15

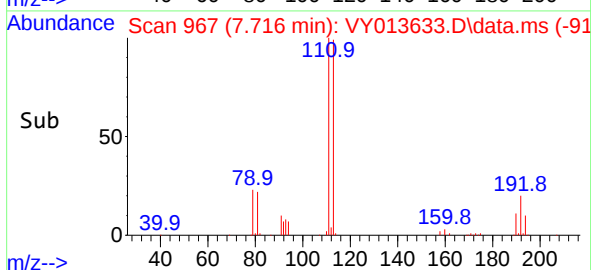
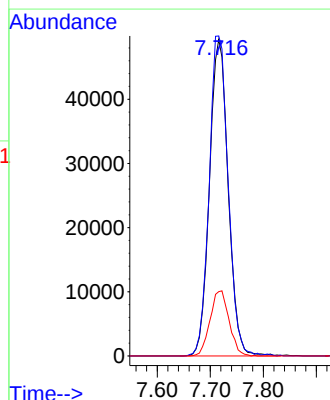
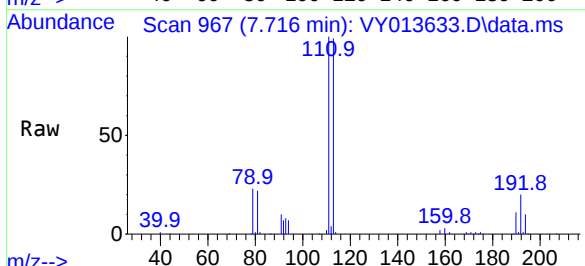
Tgt Ion:113 Resp: 120769

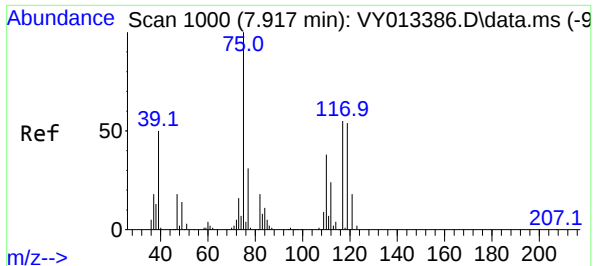
Ion Ratio Lower Upper

113 100

111 102.6 82.2 123.2

192 21.0 16.7 25.1





#36

1,1-Dichloropropene

Concen: 4.222 ug/l

RT: 7.783 min Scan# 91

Delta R.T. -0.134 min

Lab File: VY013633.D

Acq: 05 May 2023 18:15

Instrument :

MSVOA\_Y

ClientSampleId :

ZONE-A-0-3-05022023

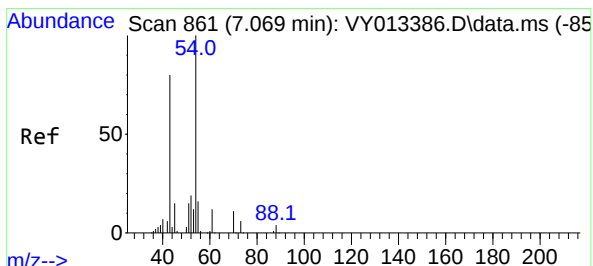
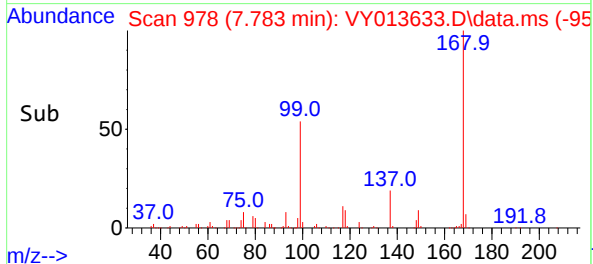
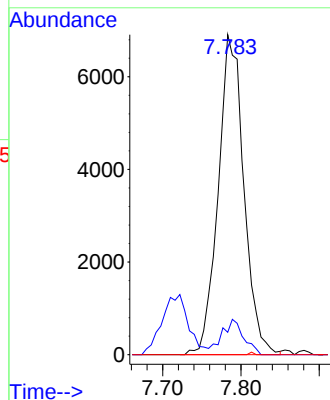
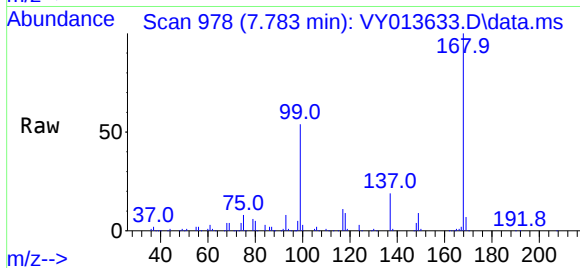
Tgt Ion: 75 Resp: 15717

Ion Ratio Lower Upper

75 100

110 9.3 18.7 56.1#

77 0.0 24.6 37.0#



#37

Ethyl Acetate

Concen: 3.237 ug/l

RT: 6.990 min Scan# 848

Delta R.T. -0.079 min

Lab File: VY013633.D

Acq: 05 May 2023 18:15

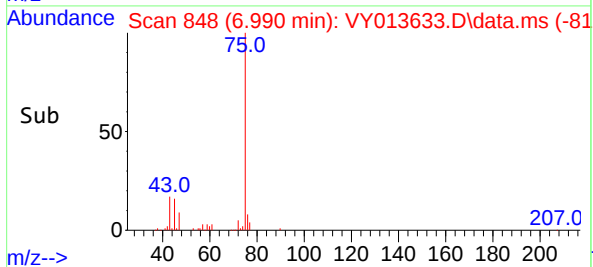
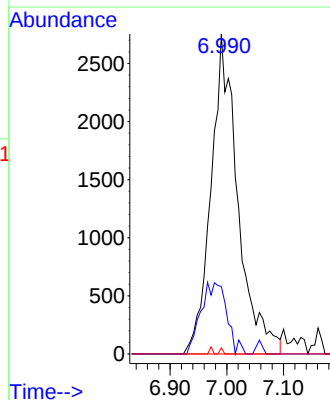
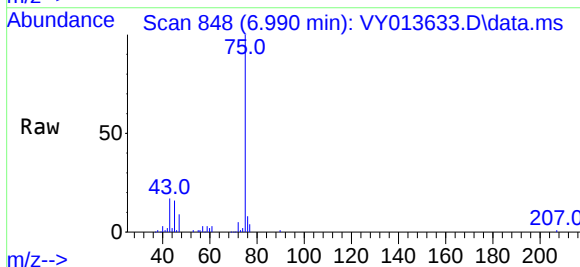
Tgt Ion: 43 Resp: 9068

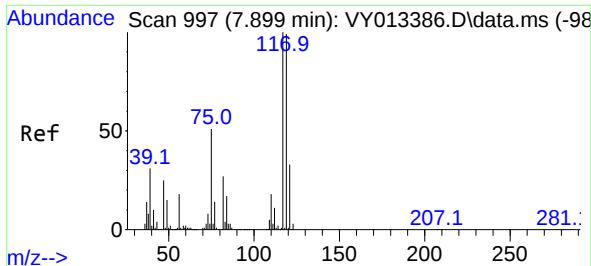
Ion Ratio Lower Upper

43 100

61 0.0 11.4 17.0#

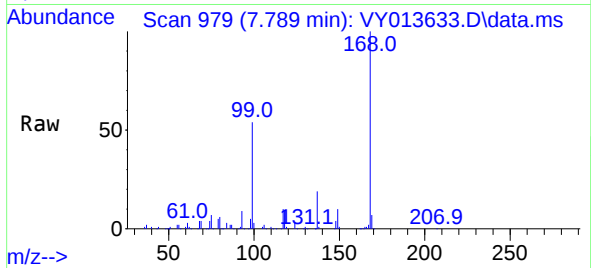
70 0.2 7.9 11.9#



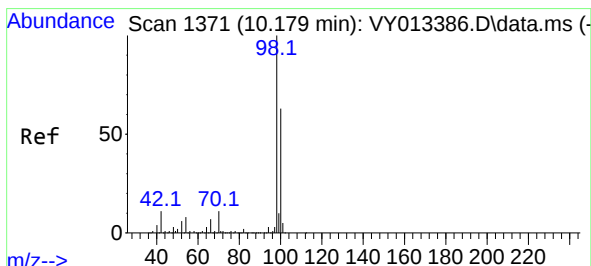
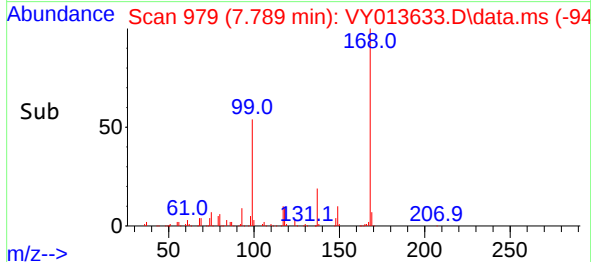
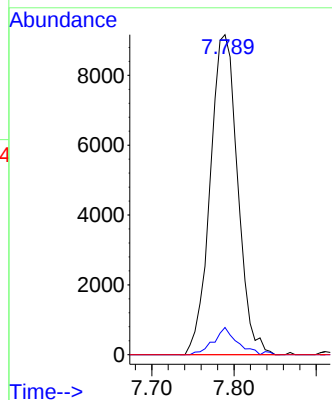


#38  
Carbon Tetrachloride  
Concen: 5.451 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. -0.110 min  
Lab File: VY013633.D  
Acq: 05 May 2023 18:15

Instrument :  
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ClientSampleId :  
ZONE-A-0-3-05022023

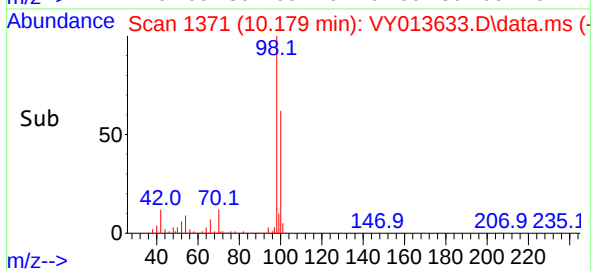
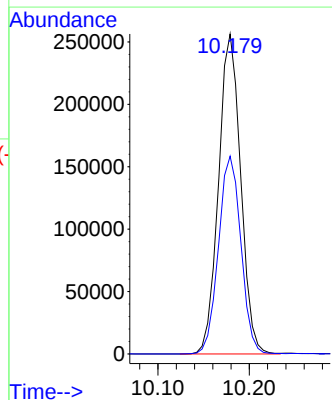
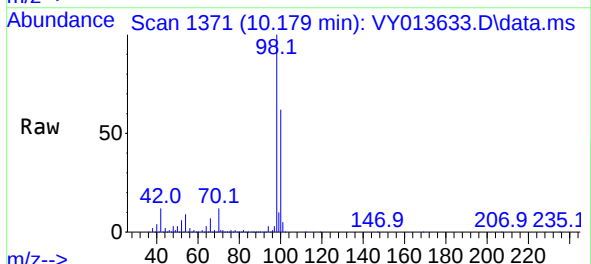


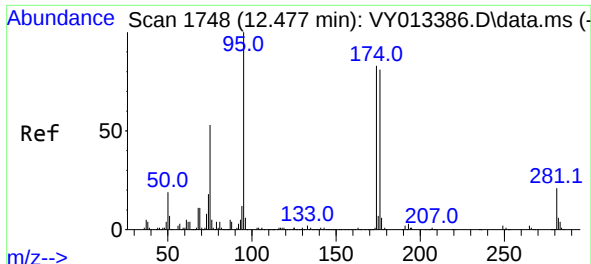
Tgt Ion: 117 Resp: 21265  
Ion Ratio Lower Upper  
117 100  
119 8.5 79.0 118.6#  
121 0.0 26.6 40.0#



#50  
Toluene-d8  
Concen: 54.110 ug/l  
RT: 10.179 min Scan# 1371  
Delta R.T. -0.000 min  
Lab File: VY013633.D  
Acq: 05 May 2023 18:15

Tgt Ion: 98 Resp: 431724  
Ion Ratio Lower Upper  
98 100  
100 62.6 50.5 75.7

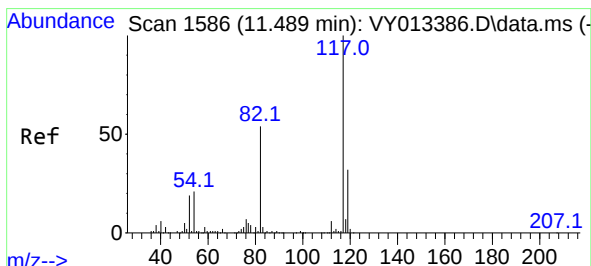
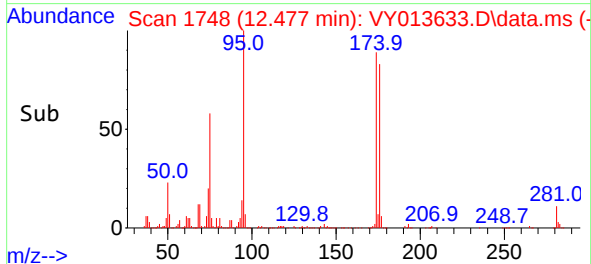
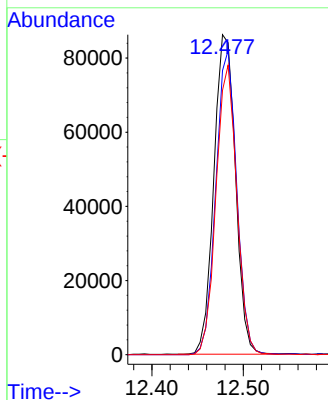
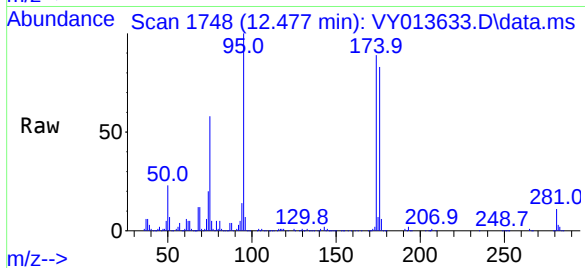




#62  
4-Bromofluorobenzene  
Concen: 52.617 ug/l  
RT: 12.477 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VY013633.D  
Acq: 05 May 2023 18:15

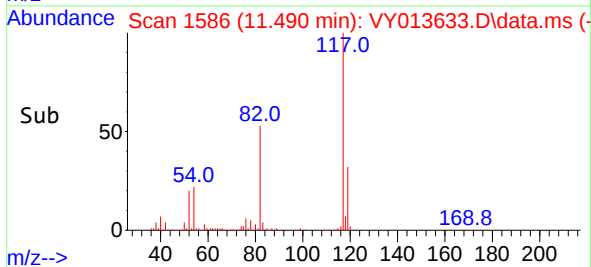
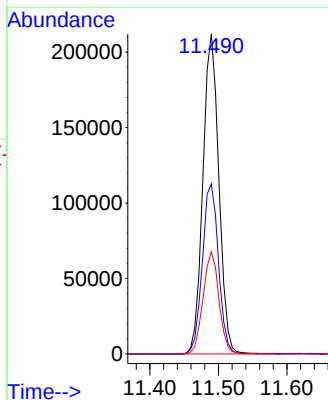
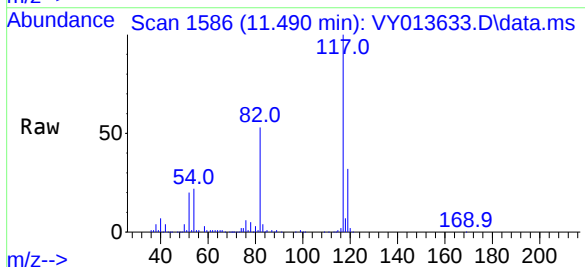
Instrument :  
MSVOA\_Y  
ClientSampleId :  
ZONE-A-0-3-05022023

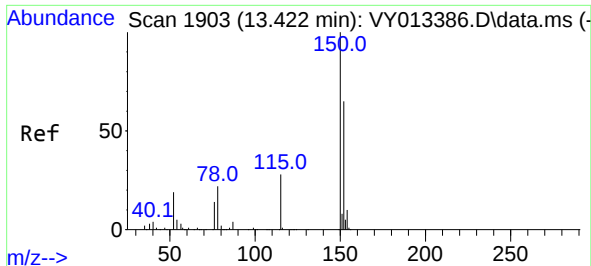
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 95    | Resp: | 141528 |
| Ion      | Ratio | Lower | Upper  |
| 95       | 100   |       |        |
| 174      | 92.2  | 0.0   | 182.0  |
| 176      | 87.3  | 0.0   | 175.4  |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.490 min Scan# 1586  
Delta R.T. 0.001 min  
Lab File: VY013633.D  
Acq: 05 May 2023 18:15

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 343767 |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 82       | 53.1  | 43.0  | 64.6   |
| 119      | 31.9  | 25.5  | 38.3   |

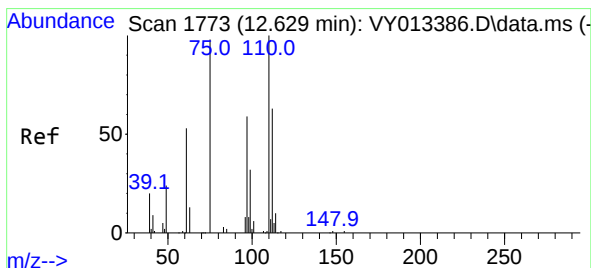
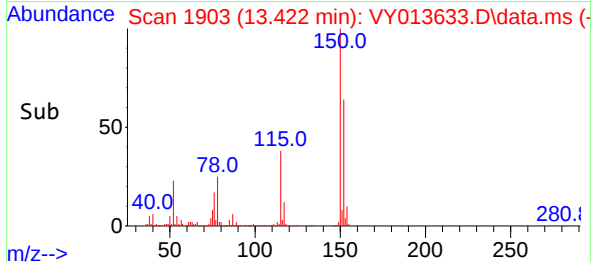
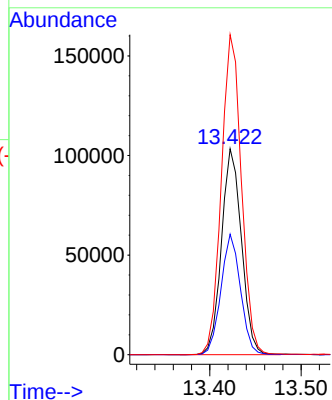
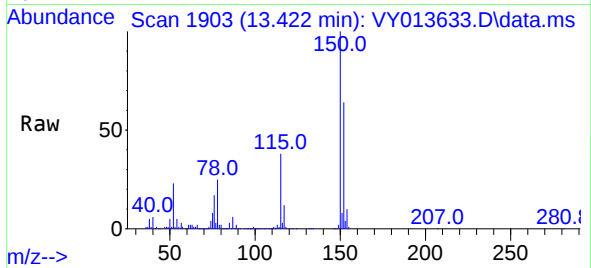




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.422 min Scan# 1903  
 Delta R.T. 0.000 min  
 Lab File: VY013633.D  
 Acq: 05 May 2023 18:15

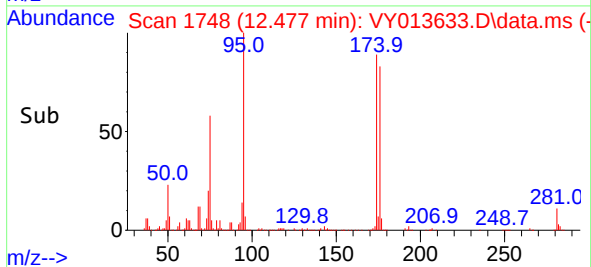
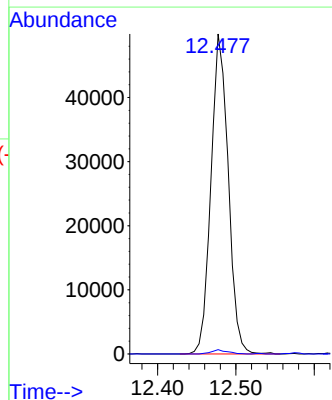
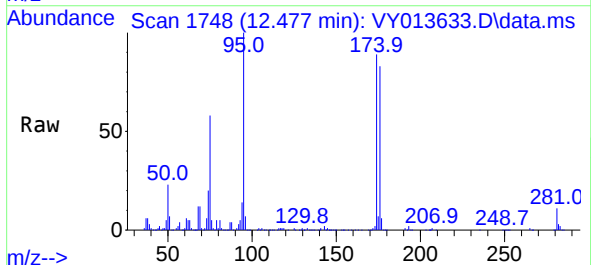
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 ZONE-A-0-3-05022023

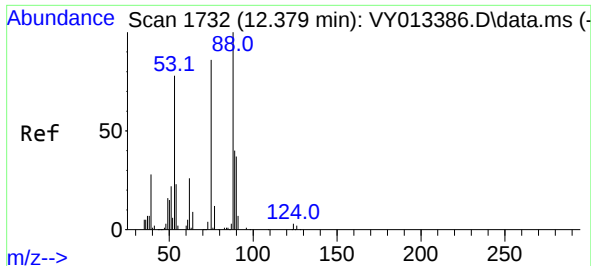
Tgt Ion:152 Resp: 157163  
 Ion Ratio Lower Upper  
 152 100  
 115 57.3 28.1 84.2  
 150 156.4 0.0 352.0



#76  
 1,2,3-Trichloropropane  
 Concen: 36.069 ug/l  
 RT: 12.477 min Scan# 1748  
 Delta R.T. -0.152 min  
 Lab File: VY013633.D  
 Acq: 05 May 2023 18:15

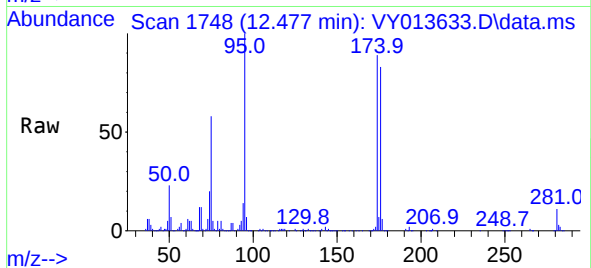
Tgt Ion: 75 Resp: 76450  
 Ion Ratio Lower Upper  
 75 100  
 77 1.2 0.0 0.0#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 73.782 ug/l  
 RT: 12.477 min Scan# 11  
 Delta R.T. 0.098 min  
 Lab File: VY013633.D  
 Acq: 05 May 2023 18:15

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 ZONE-A-0-3-05022023



Tgt Ion: 75 Resp: 76450  
 Ion Ratio Lower Upper  
 75 100  
 53 0.4 73.2 109.8#  
 89 0.5 38.0 57.0#

