

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY090924\  
 Data File : VY019460.D  
 Acq On : 09 Sep 2024 12:16  
 Operator : SY/MD  
 Sample : VIBLK  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Sep 10 01:46:51 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y090924S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Sep 09 16:00:30 2024  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.707  | 168  | 555620   | 50.000 | ug/l  | # 0.00   |
| 34) 1,4-Difluorobenzene    | 8.616  | 114  | 1025291  | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.420 | 117  | 899406   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.347 | 152  | 349305   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |            |      |
|-----------------------------|--------|-------|----------|----------|------------|------|
| System Monitoring Compounds |        |       |          |          |            |      |
| 33) 1,2-Dichloroethane-d4   | 8.061  | 65    | 287745   | 55.928   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | = 111.860% |      |
| 35) Dibromofluoromethane    | 7.634  | 113   | 313488   | 53.927   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | = 107.860% |      |
| 50) Toluene-d8              | 10.109 | 98    | 1199219  | 55.773   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 58 - 134 | Recovery | = 111.540% |      |
| 62) 4-Bromofluorobenzene    | 12.408 | 95    | 403920   | 48.856   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 29 - 146 | Recovery | = 97.720%  |      |

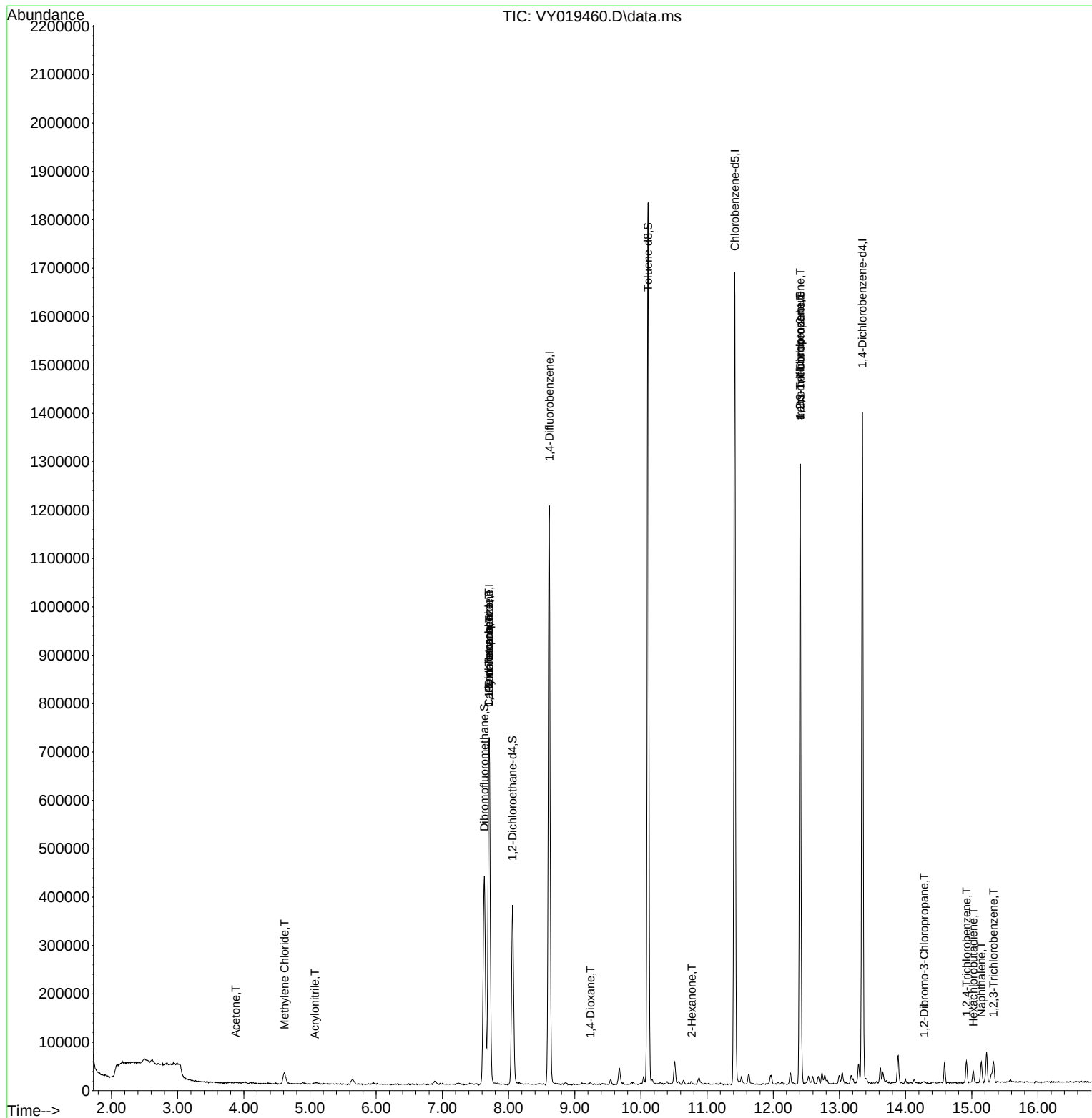
|                               |        |     |        |           |      |       |
|-------------------------------|--------|-----|--------|-----------|------|-------|
| Target Compounds              |        |     |        | Qvalue    |      |       |
| 2) Dichlorodifluoromethane    | 1.867  | 85  | 590    | Below Cal | #    | 43    |
| 13) Acrolein                  | 3.653  | 56  | 1035   | Below Cal | #    | 55    |
| 15) Acrylonitrile             | 5.074  | 53  | 2872   | 2.395     | ug/l | # 93  |
| 16) Acetone                   | 3.879  | 43  | 4017   | 3.277     | ug/l | # 71  |
| 20) Methylene Chloride        | 4.616  | 84  | 17696  | 3.166     | ug/l | 95    |
| 31) Cyclohexane               | 7.707  | 56  | 12830  | 1.393     | ug/l | # 8   |
| 36) 1,1-Dichloropropene       | 7.701  | 75  | 45379  | 5.737     | ug/l | # 49  |
| 38) Carbon Tetrachloride      | 7.701  | 117 | 57764  | 6.476     | ug/l | # 16  |
| 49) 1,4-Dioxane               | 9.237  | 88  | 145    | 3.782     | ug/l | # 1   |
| 59) 2-Hexanone                | 10.768 | 43  | 4783   | 1.523     | ug/l | 77    |
| 76) 1,2,3-Trichloropropane    | 12.408 | 75  | 204712 | 62.527    | ug/l | # 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.408 | 75  | 204712 | 120.033   | ug/l | # 16  |
| 92) 1,2-Dibromo-3-Chloropr... | 14.279 | 75  | 1030   | 1.374     | ug/l | 65    |
| 93) 1,2,4-Trichlorobenzene    | 14.919 | 180 | 12556  | 2.118     | ug/l | 96    |
| 94) Hexachlorobutadiene       | 15.023 | 225 | 3692   | 1.166     | ug/l | 91    |
| 95) Naphthalene               | 15.145 | 128 | 35374  | 2.980     | ug/l | 98    |
| 96) 1,2,3-Trichlorobenzene    | 15.328 | 180 | 12480  | 2.462     | ug/l | 96    |

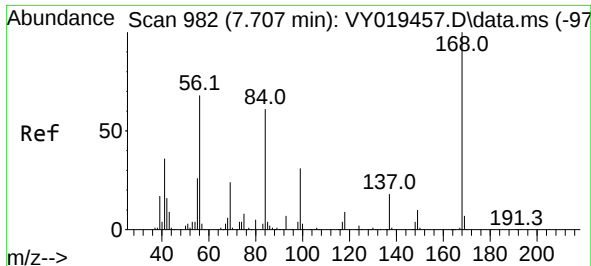
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY090924\  
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Quant Title : SW846 8260  
QLast Update : Mon Sep 09 16:00:30 2024  
Response via : Initial Calibration

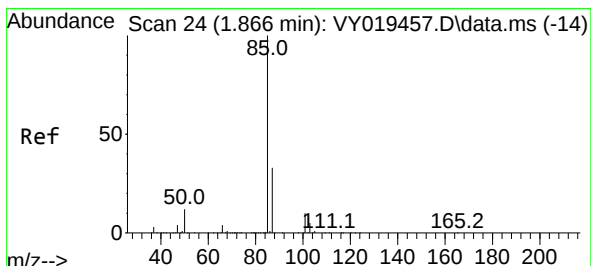
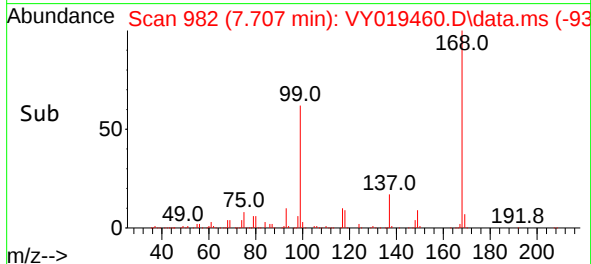
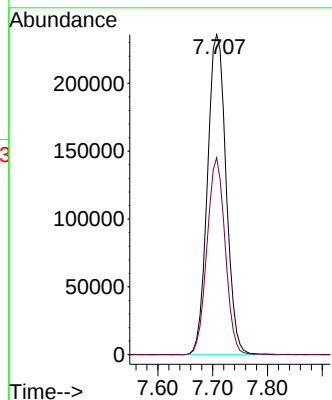
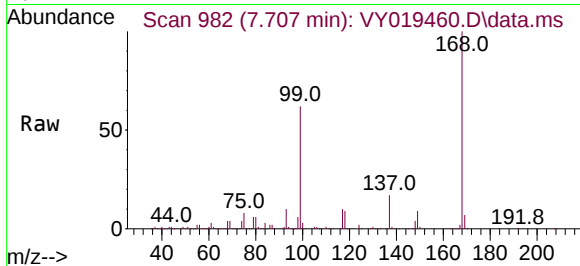




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.707 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VY019460.D  
Acq: 09 Sep 2024 12:16

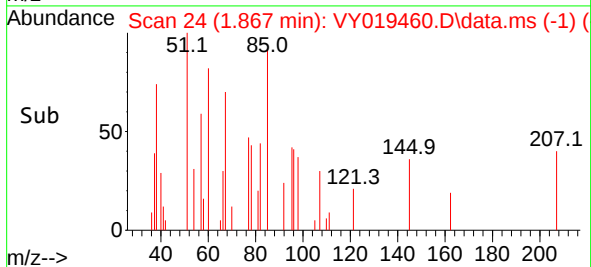
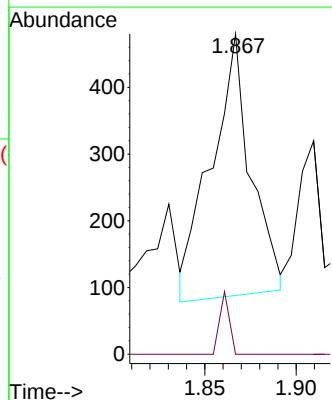
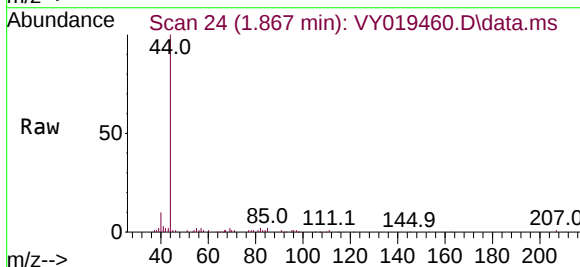
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MSVOA\_Y  
ClientSampleId :

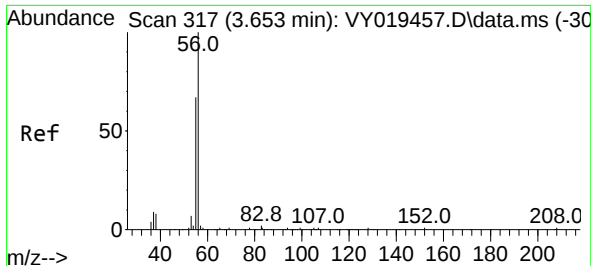
Tgt Ion:168 Resp: 555620  
Ion Ratio Lower Upper  
168 100  
99 61.5 39.1 58.7#



#2  
Dichlorodifluoromethane  
Concen: Below Cal  
RT: 1.867 min Scan# 24  
Delta R.T. 0.001 min  
Lab File: VY019460.D  
Acq: 09 Sep 2024 12:16

Tgt Ion: 85 Resp: 590  
Ion Ratio Lower Upper  
85 100  
87 0.0 16.0 48.0#

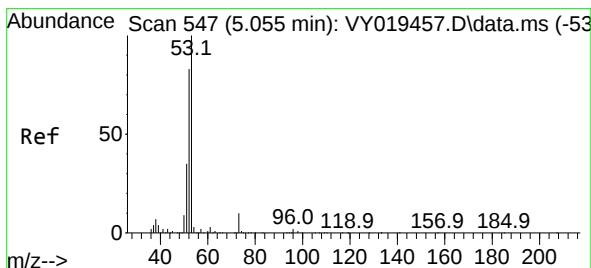
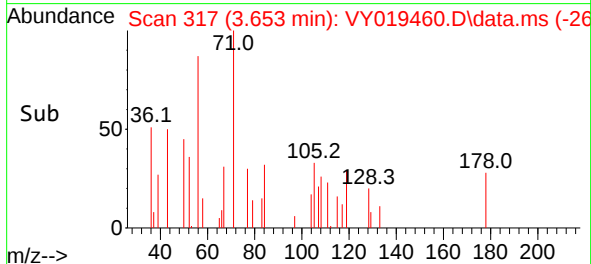
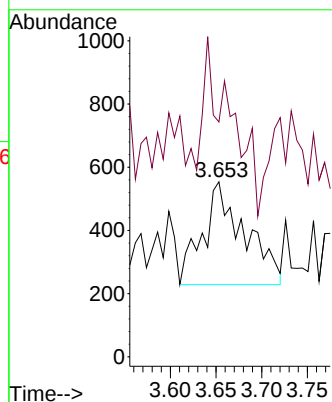
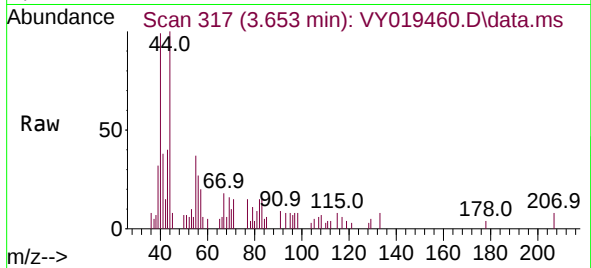




#13  
Acrolein  
Concen: Below Cal  
RT: 3.653 min Scan# 317  
Delta R.T. 0.000 min  
Lab File: VY019460.D  
Acq: 09 Sep 2024 12:16

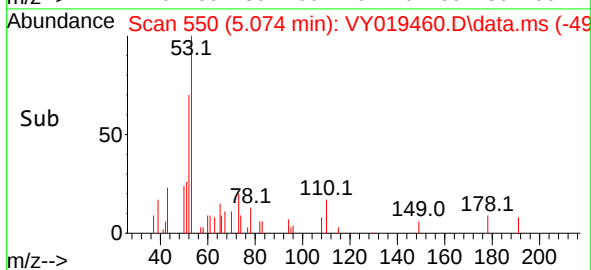
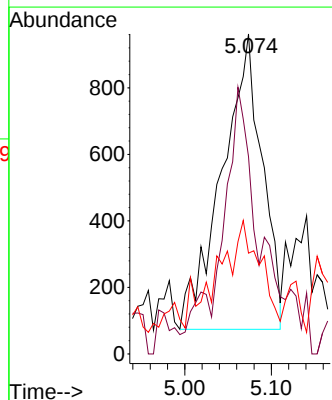
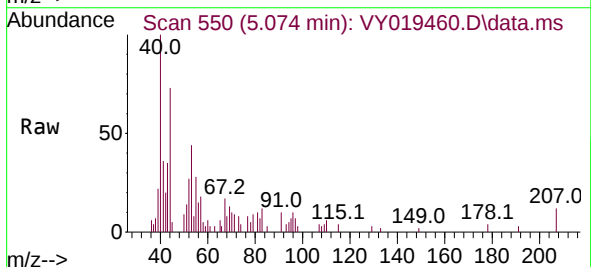
Instrument :  
MSVOA\_Y  
ClientSampleId :

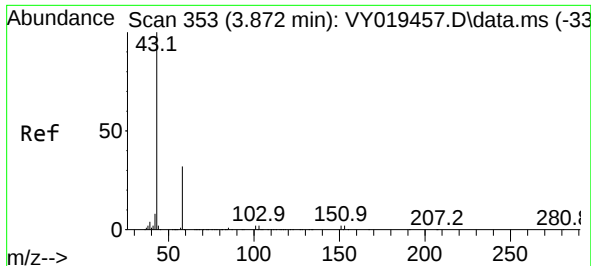
Tgt Ion: 56 Resp: 1035  
Ion Ratio Lower Upper  
56 100  
55 32.8 55.7 83.5#



#15  
Acrylonitrile  
Concen: 2.395 ug/l  
RT: 5.074 min Scan# 550  
Delta R.T. 0.019 min  
Lab File: VY019460.D  
Acq: 09 Sep 2024 12:16

Tgt Ion: 53 Resp: 2872  
Ion Ratio Lower Upper  
53 100  
52 80.2 64.7 97.1  
51 48.5 28.4 42.6#





#16

Acetone

Concen: 3.277 ug/l

RT: 3.879 min Scan# 3

Delta R.T. 0.006 min

Lab File: VY019460.D

Acq: 09 Sep 2024 12:16

Instrument :

MSVOA\_Y

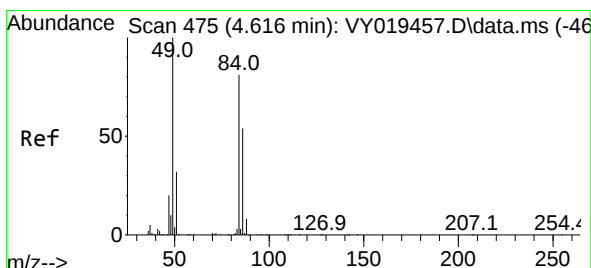
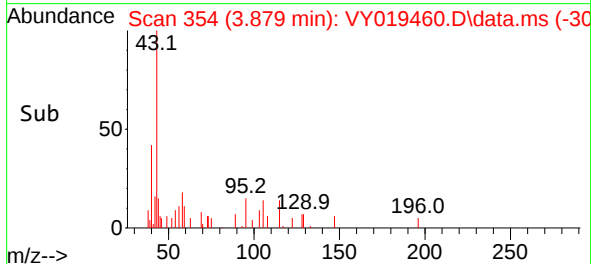
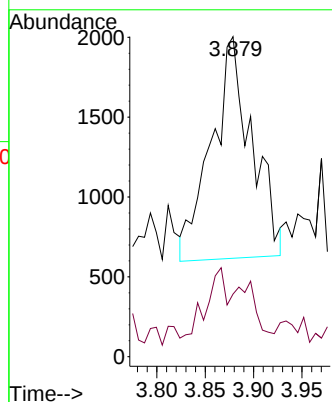
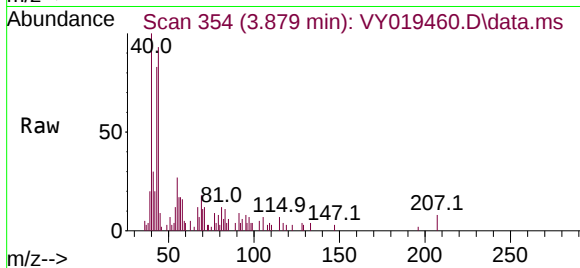
ClientSampleId :

Tgt Ion: 43 Resp: 4017

Ion Ratio Lower Upper

43 100

58 22.0 31.7 47.5#



#20

Methylene Chloride

Concen: 3.166 ug/l

RT: 4.616 min Scan# 475

Delta R.T. 0.000 min

Lab File: VY019460.D

Acq: 09 Sep 2024 12:16

Tgt Ion: 84 Resp: 17696

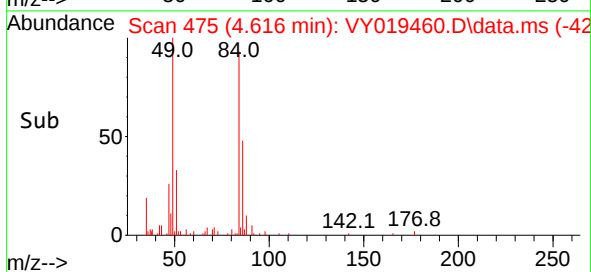
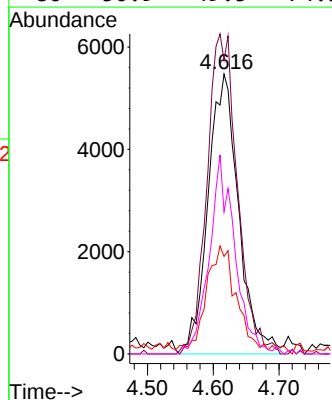
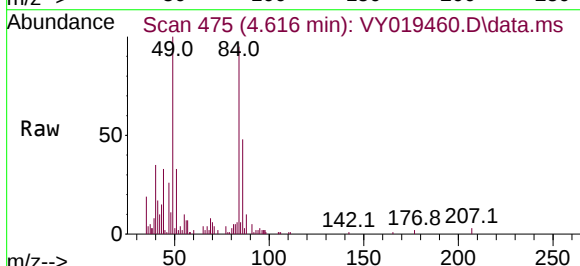
Ion Ratio Lower Upper

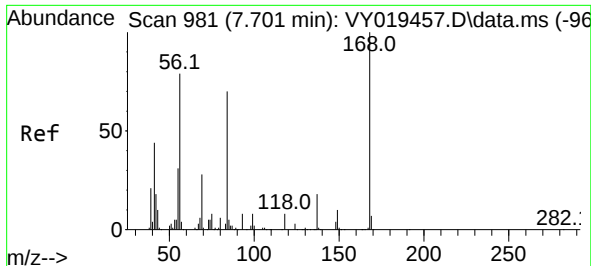
84 100

49 105.0 84.4 126.6

51 32.4 26.0 39.0

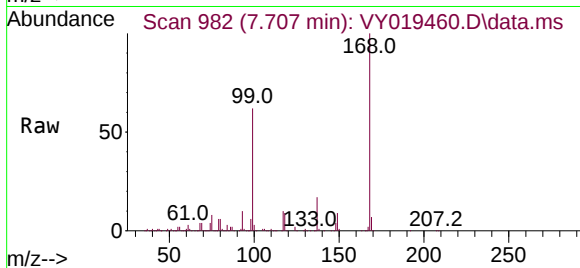
86 50.9 49.5 74.3



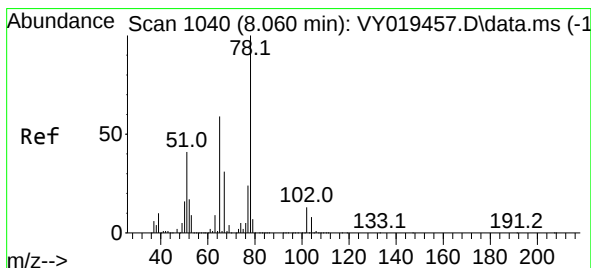
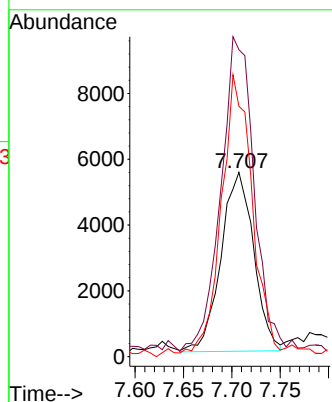
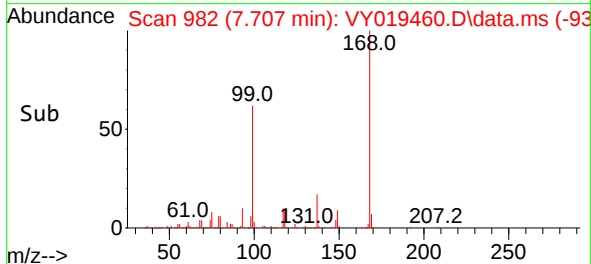


#31  
Cyclohexane  
Concen: 1.393 ug/l  
RT: 7.707 min Scan# 981  
Delta R.T. 0.006 min  
Lab File: VY019460.D  
Acq: 09 Sep 2024 12:16

Instrument :  
MSVOA\_Y  
ClientSampleId :

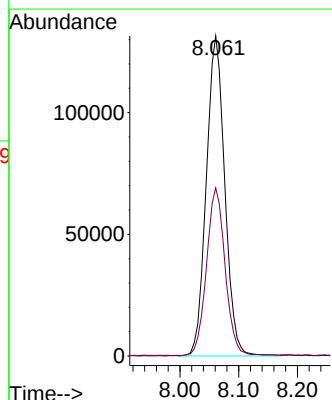
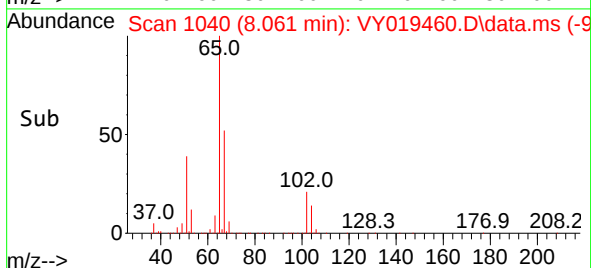
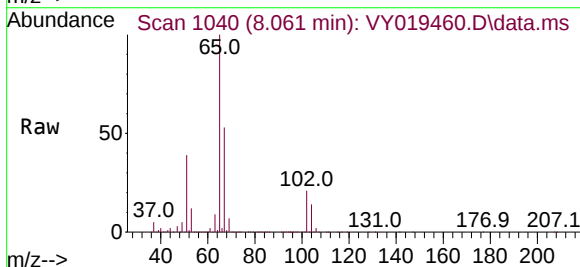


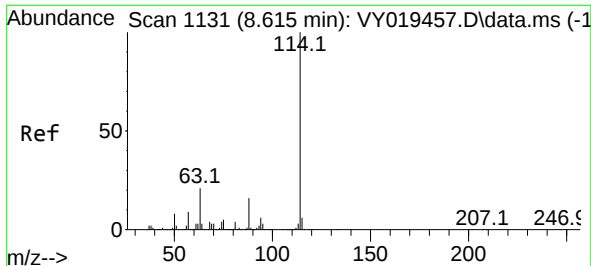
Tgt Ion: 56 Resp: 12830  
Ion Ratio Lower Upper  
56 100  
69 169.3 28.7 43.1#  
84 138.6 77.7 116.5#



#33  
1,2-Dichloroethane-d4  
Concen: 55.928 ug/l  
RT: 8.061 min Scan# 1040  
Delta R.T. 0.000 min  
Lab File: VY019460.D  
Acq: 09 Sep 2024 12:16

Tgt Ion: 65 Resp: 287745  
Ion Ratio Lower Upper  
65 100  
67 52.6 0.0 109.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

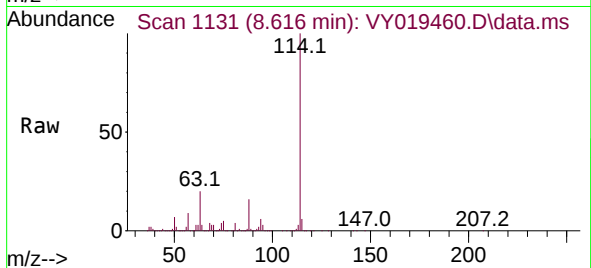
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Acq: 09 Sep 2024 12:16

Instrument :

MSVOA\_Y

ClientSampleId :



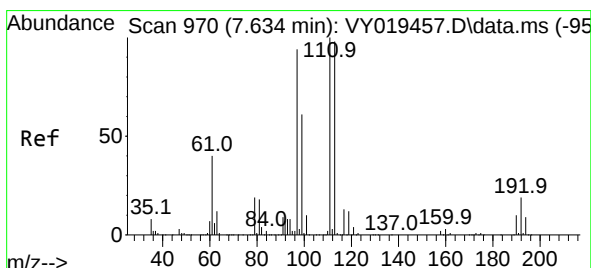
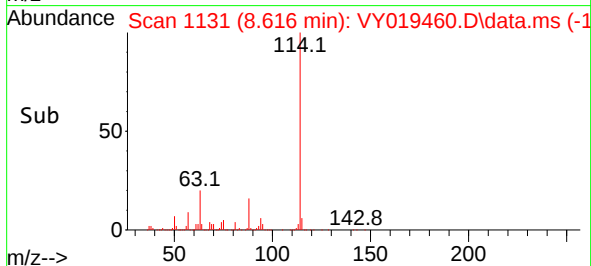
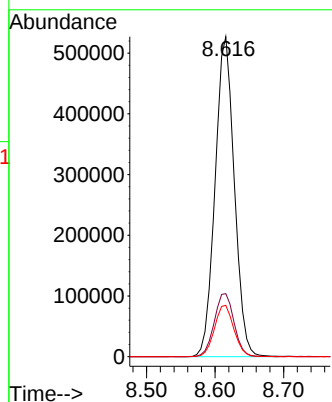
Tgt Ion:114 Resp: 1025291

Ion Ratio Lower Upper

114 100

63 19.7 0.0 35.0

88 16.1 0.0 27.2



#35

Dibromofluoromethane

Concen: 53.927 ug/l

RT: 7.634 min Scan# 970

Delta R.T. 0.000 min

Lab File: VY019460.D

Acq: 09 Sep 2024 12:16

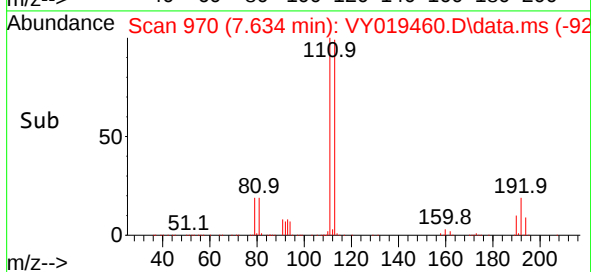
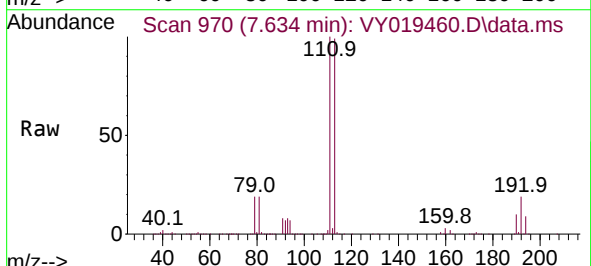
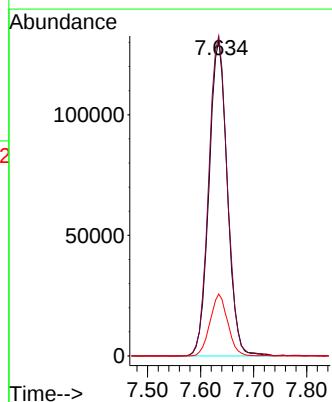
Tgt Ion:113 Resp: 313488

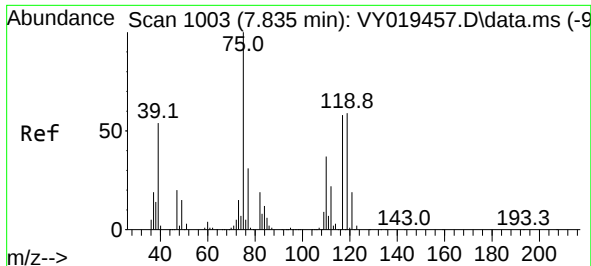
Ion Ratio Lower Upper

113 100

111 103.4 82.2 123.4

192 19.0 15.9 23.9

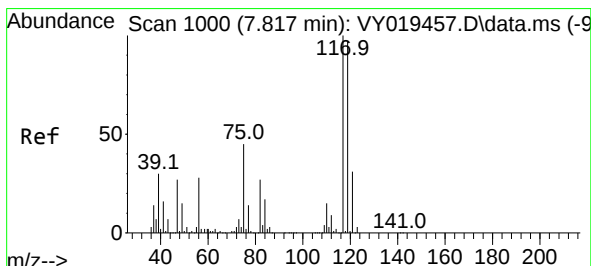
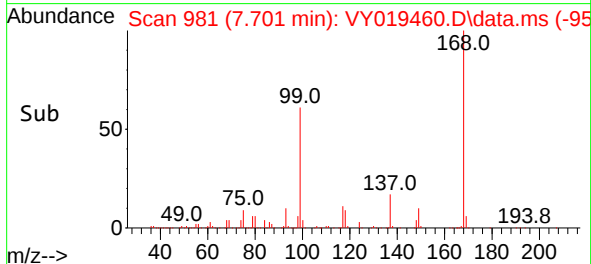
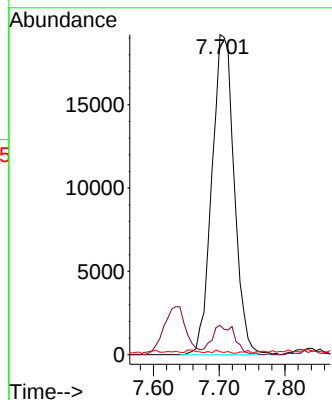
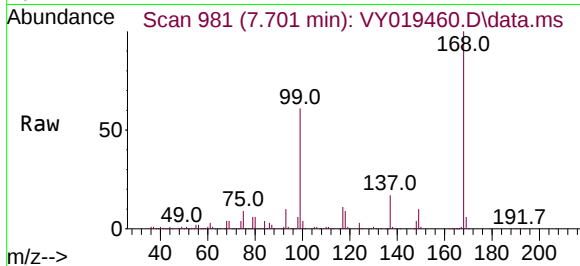




#36  
 1,1-Dichloropropene  
 Concen: 5.737 ug/l  
 RT: 7.701 min Scan# 981  
 Delta R.T. -0.134 min  
 Lab File: VY019460.D  
 Acq: 09 Sep 2024 12:16

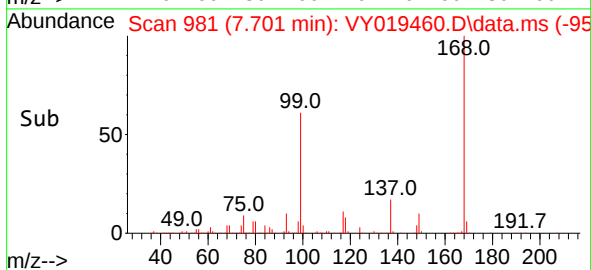
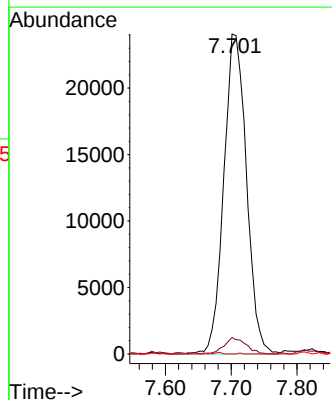
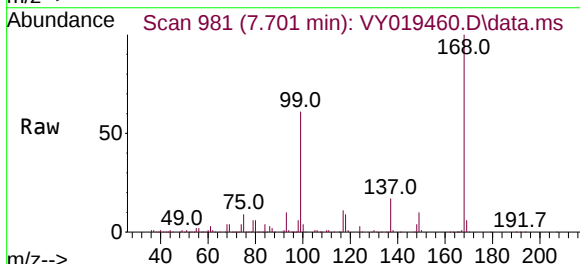
Instrument :  
 MSVOA\_Y  
 ClientSampleId :

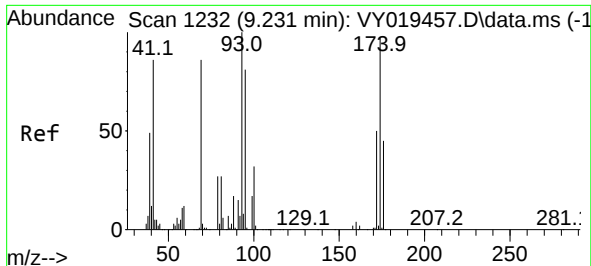
Tgt Ion: 75 Resp: 45379  
 Ion Ratio Lower Upper  
 75 100  
 110 9.6 19.0 57.0#  
 77 0.6 25.3 37.9#



#38  
 Carbon Tetrachloride  
 Concen: 6.476 ug/l  
 RT: 7.701 min Scan# 981  
 Delta R.T. -0.115 min  
 Lab File: VY019460.D  
 Acq: 09 Sep 2024 12:16

Tgt Ion: 117 Resp: 57764  
 Ion Ratio Lower Upper  
 117 100  
 119 4.8 75.8 113.6#  
 121 0.0 24.0 36.0#





#49

1,4-Dioxane

Concen: 3.782 ug/l

RT: 9.237 min Scan# 1232

Delta R.T. 0.006 min

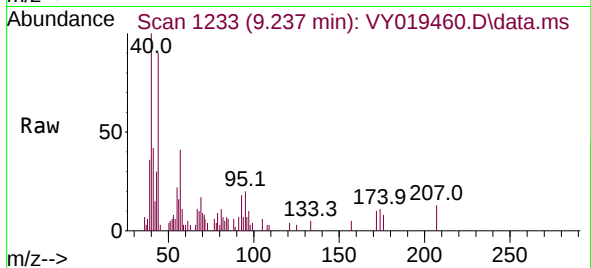
Lab File: VY019460.D

Acq: 09 Sep 2024 12:16

Instrument :

MSVOA\_Y

ClientSampleId :



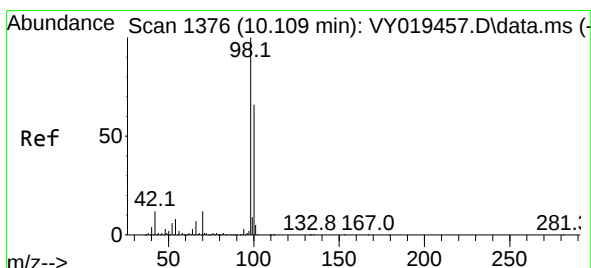
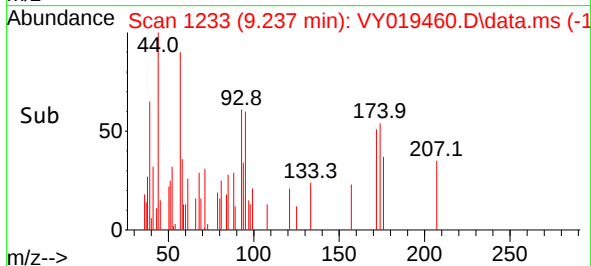
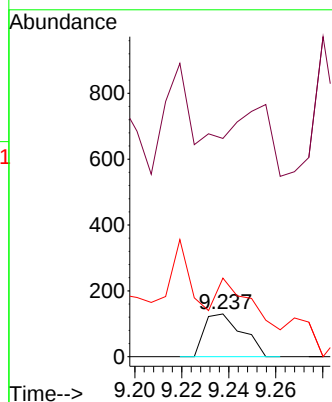
Tgt Ion: 88 Resp: 145

Ion Ratio Lower Upper

88 100

43 192.4 0.0 0.0#

58 256.6 49.3 73.9#



#50

Toluene-d8

Concen: 55.773 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. 0.000 min

Lab File: VY019460.D

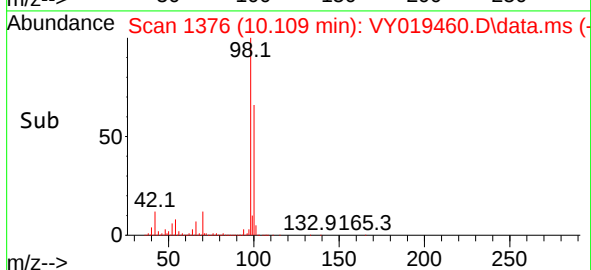
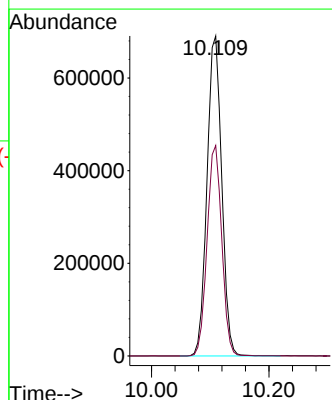
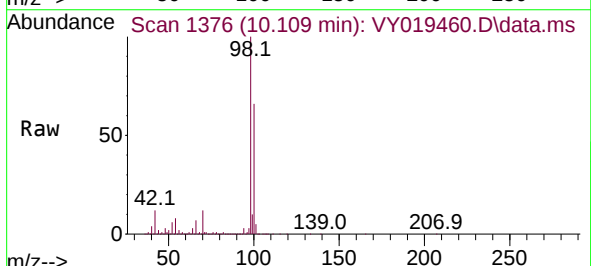
Acq: 09 Sep 2024 12:16

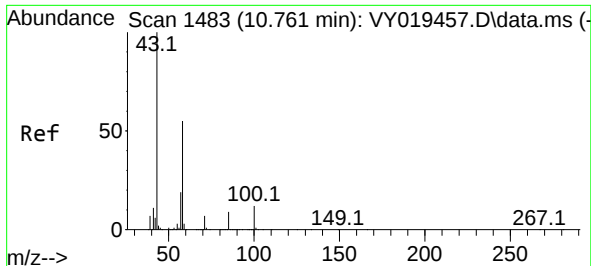
Tgt Ion: 98 Resp: 1199219

Ion Ratio Lower Upper

98 100

100 65.6 52.0 78.0





#59

2-Hexanone

Concen: 1.523 ug/l

RT: 10.768 min Scan# 1483

Delta R.T. 0.006 min

Lab File: VY019460.D

Acq: 09 Sep 2024 12:16

Instrument :

MSVOA\_Y

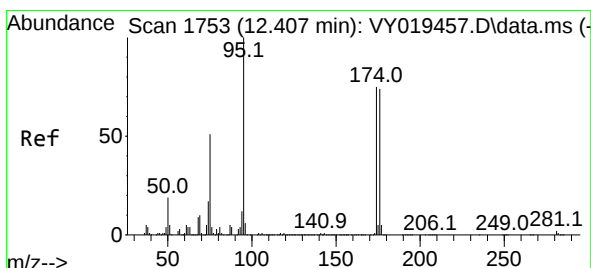
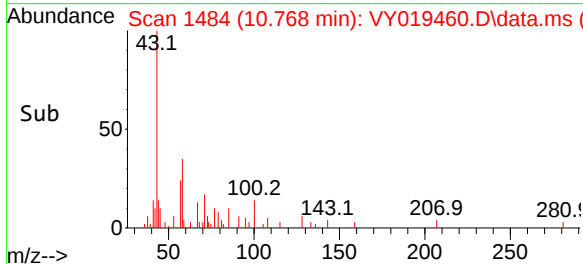
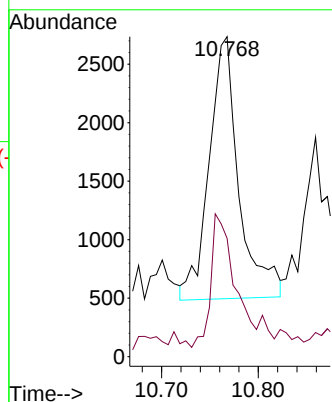
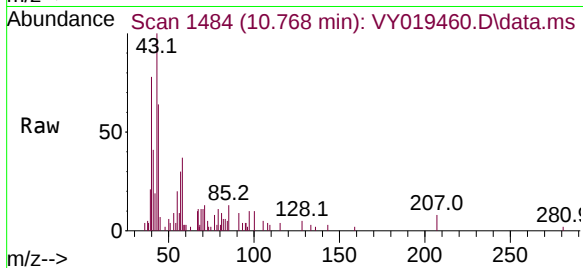
ClientSampleId :

Tgt Ion: 43 Resp: 4783

Ion Ratio Lower Upper

43 100

58 44.7 31.4 94.0



#62

4-Bromofluorobenzene

Concen: 48.856 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. 0.000 min

Lab File: VY019460.D

Acq: 09 Sep 2024 12:16

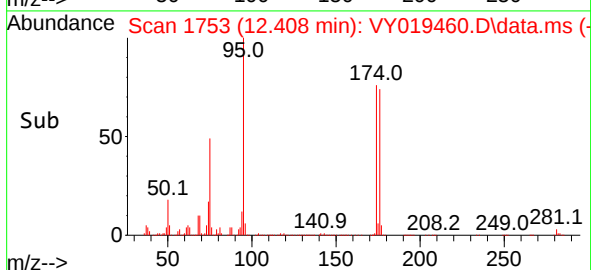
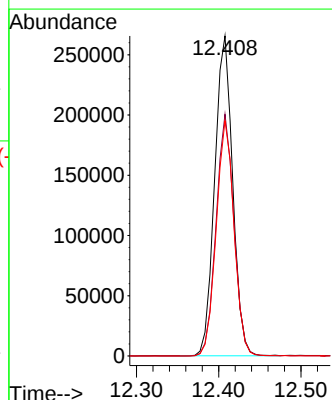
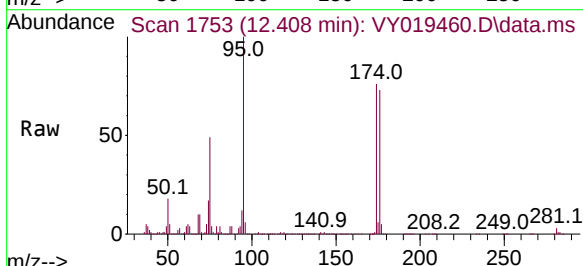
Tgt Ion: 95 Resp: 403920

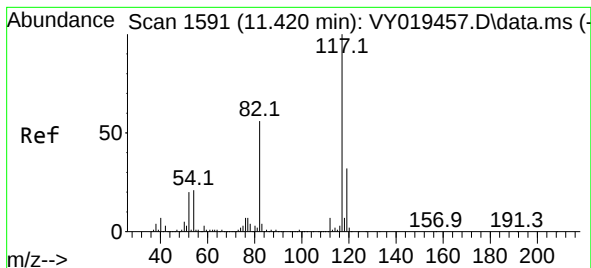
Ion Ratio Lower Upper

95 100

174 74.9 0.0 175.6

176 72.7 0.0 171.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY019460.D

Acq: 09 Sep 2024 12:16

Instrument :

MSVOA\_Y

ClientSampleId :

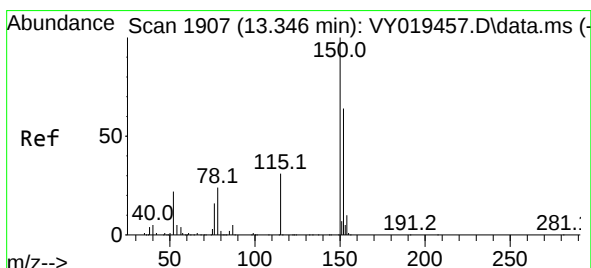
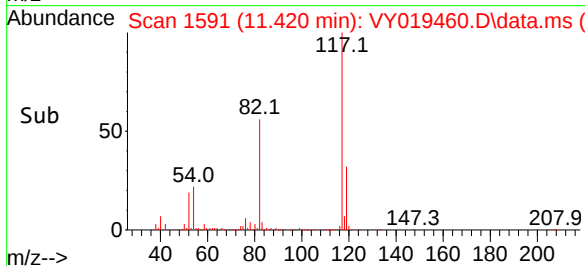
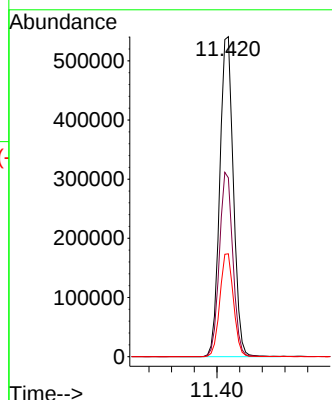
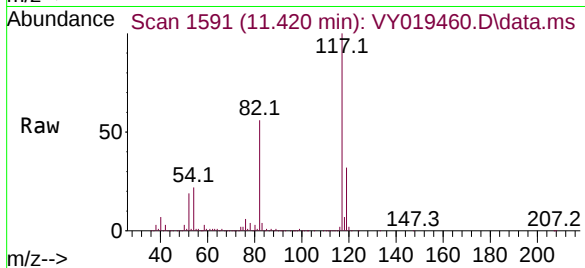
Tgt Ion:117 Resp: 899406

Ion Ratio Lower Upper

117 100

82 55.9 42.4 63.6

119 32.1 25.9 38.9



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY019460.D

Acq: 09 Sep 2024 12:16

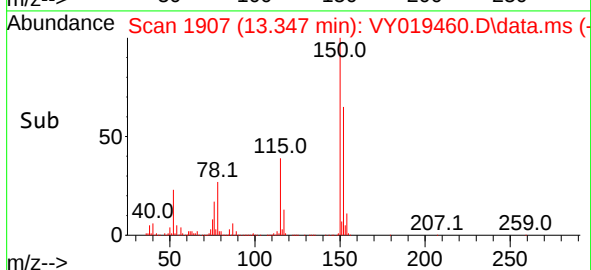
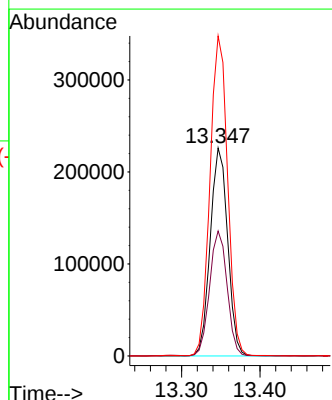
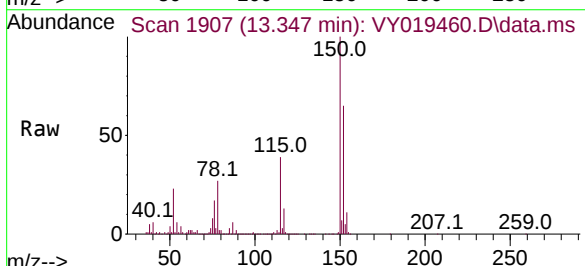
Tgt Ion:152 Resp: 349305

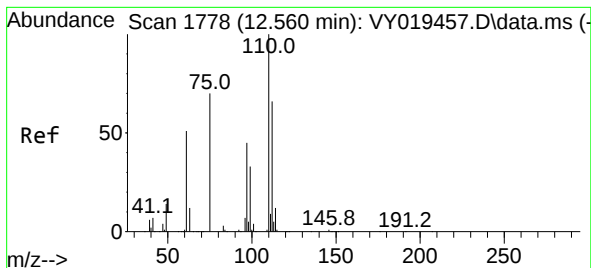
Ion Ratio Lower Upper

152 100

115 60.2 28.2 84.7

150 155.0 0.0 345.6





#76

1,2,3-Trichloropropane

Concen: 62.527 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. -0.152 min

Lab File: VY019460.D

Acq: 09 Sep 2024 12:16

Instrument :

MSVOA\_Y

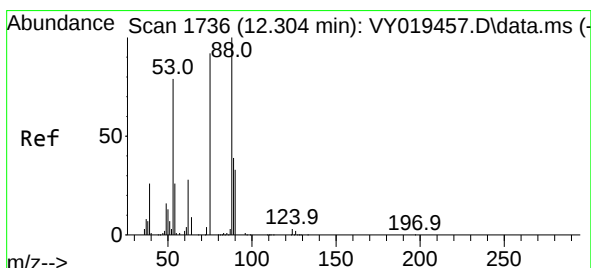
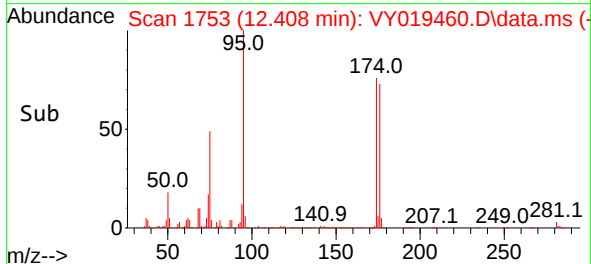
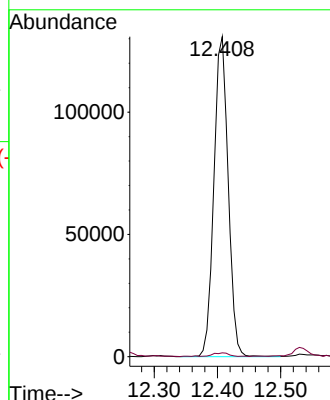
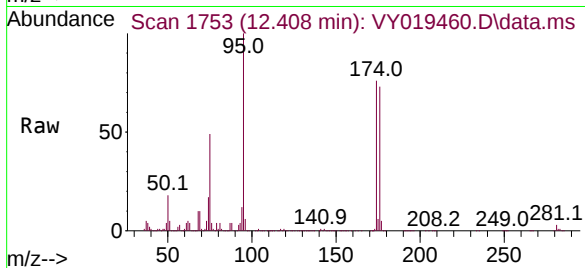
ClientSampleId :

Tgt Ion: 75 Resp: 204712

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 120.033 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. 0.104 min

Lab File: VY019460.D

Acq: 09 Sep 2024 12:16

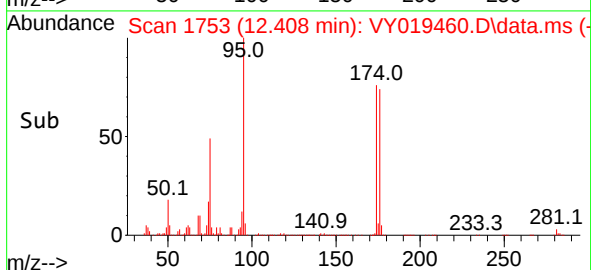
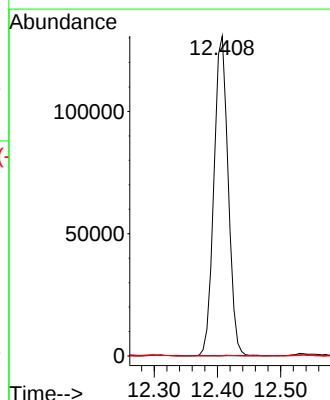
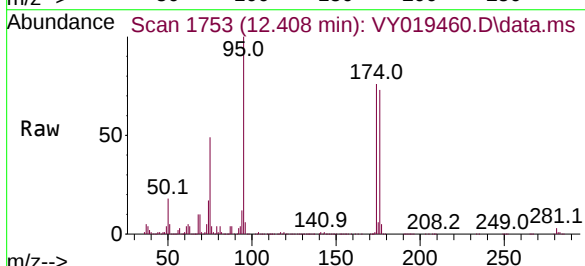
Tgt Ion: 75 Resp: 204712

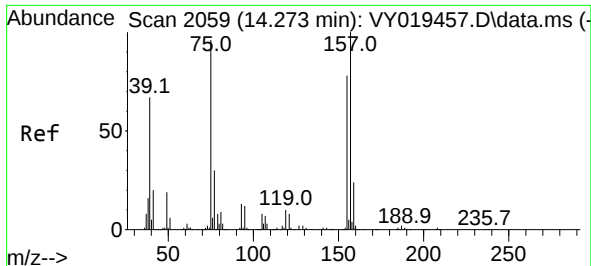
Ion Ratio Lower Upper

75 100

53 0.1 66.8 100.2#

89 0.2 35.8 53.6#





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.374 ug/l

RT: 14.279 min Scan# 2059

Delta R.T. 0.006 min

Lab File: VY019460.D

Acq: 09 Sep 2024 12:16

Instrument :

MSVOA\_Y

ClientSampleId :

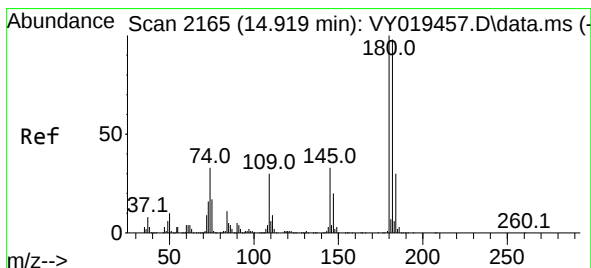
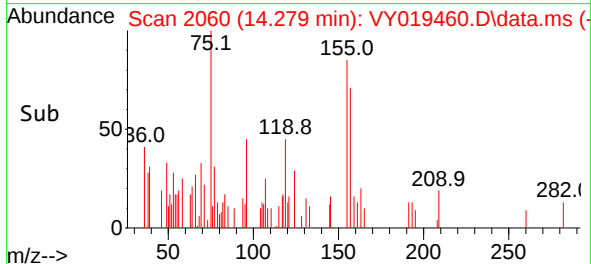
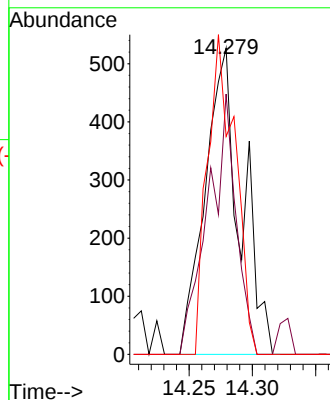
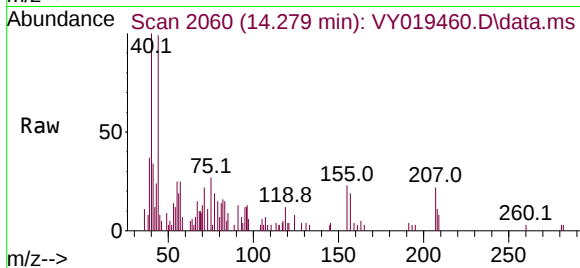
Tgt Ion: 75 Resp: 1030

Ion Ratio Lower Upper

75 100

155 67.1 48.6 145.8

157 81.3 62.7 188.2



#93

1,2,4-Trichlorobenzene

Concen: 2.118 ug/l

RT: 14.919 min Scan# 2165

Delta R.T. 0.000 min

Lab File: VY019460.D

Acq: 09 Sep 2024 12:16

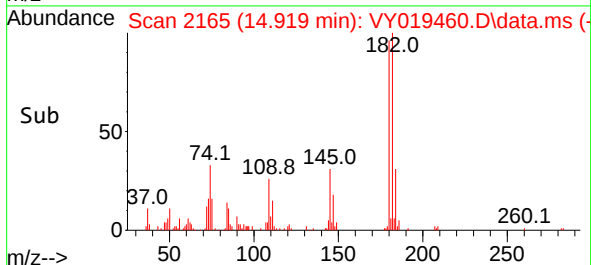
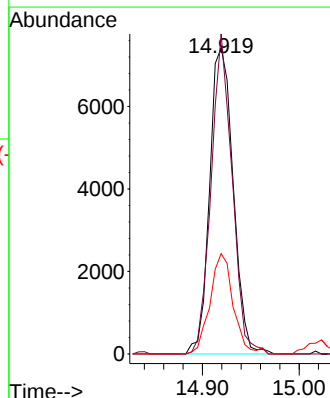
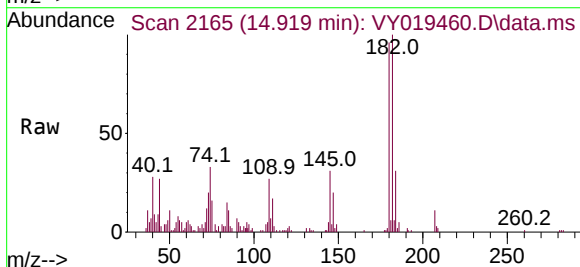
Tgt Ion: 180 Resp: 12556

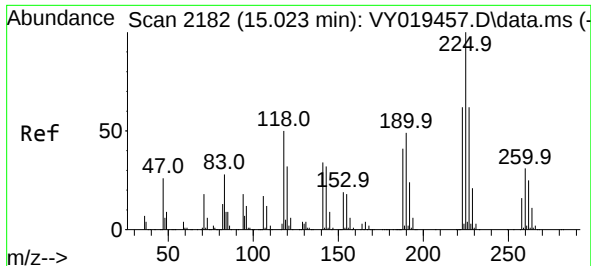
Ion Ratio Lower Upper

180 100

182 93.2 47.9 143.8

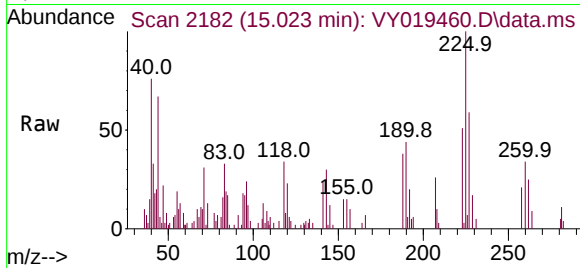
145 32.4 14.2 42.6



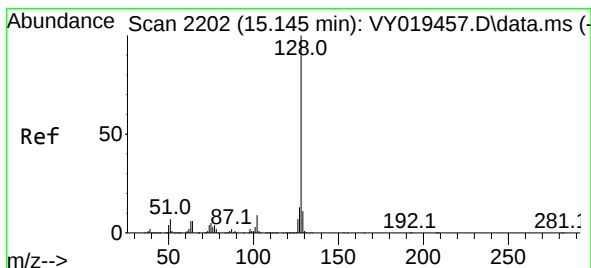
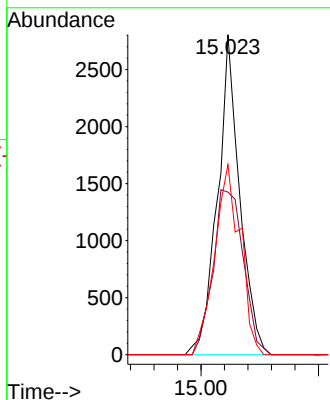
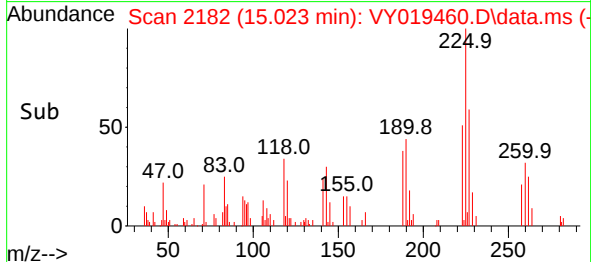


#94  
Hexachlorobutadiene  
Concen: 1.166 ug/l  
RT: 15.023 min Scan# 2182  
Delta R.T. 0.000 min  
Lab File: VY019460.D  
Acq: 09 Sep 2024 12:16

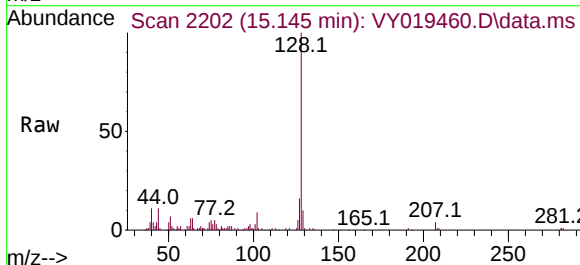
Instrument :  
MSVOA\_Y  
ClientSampleId :



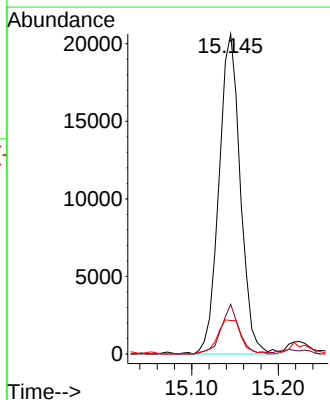
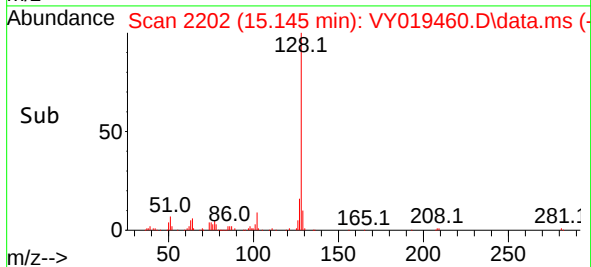
Tgt Ion:225 Resp: 3692  
Ion Ratio Lower Upper  
225 100  
223 70.2 30.4 91.2  
227 68.8 31.9 95.9

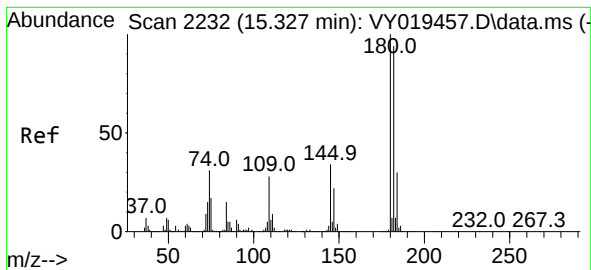


#95  
Naphthalene  
Concen: 2.980 ug/l  
RT: 15.145 min Scan# 2202  
Delta R.T. 0.000 min  
Lab File: VY019460.D  
Acq: 09 Sep 2024 12:16



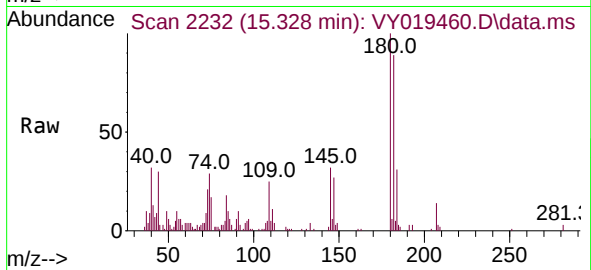
Tgt Ion:128 Resp: 35374  
Ion Ratio Lower Upper  
128 100  
127 13.1 10.6 16.0  
129 11.9 8.6 13.0





#96  
 1,2,3-Trichlorobenzene  
 Concen: 2.462 ug/l  
 RT: 15.328 min Scan# 21  
 Delta R.T. 0.000 min  
 Lab File: VY019460.D  
 Acq: 09 Sep 2024 12:16

Instrument :  
 MSVOA\_Y  
 ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 12480 |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 97.8  | 47.6  | 142.9 |
| 145      | 35.3  | 15.4  | 46.1  |

