

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY110124\  
 Data File : VY020126.D  
 Acq On : 01 Nov 2024 17:54  
 Operator : SY/MD  
 Sample : P4643-07  
 Misc : 5.62g/5.0mL/MSVOA\_Y/SOIL/A  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Nov 04 00:50:58 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y103024S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 31 15:23:13 2024  
 Response via : Initial Calibration

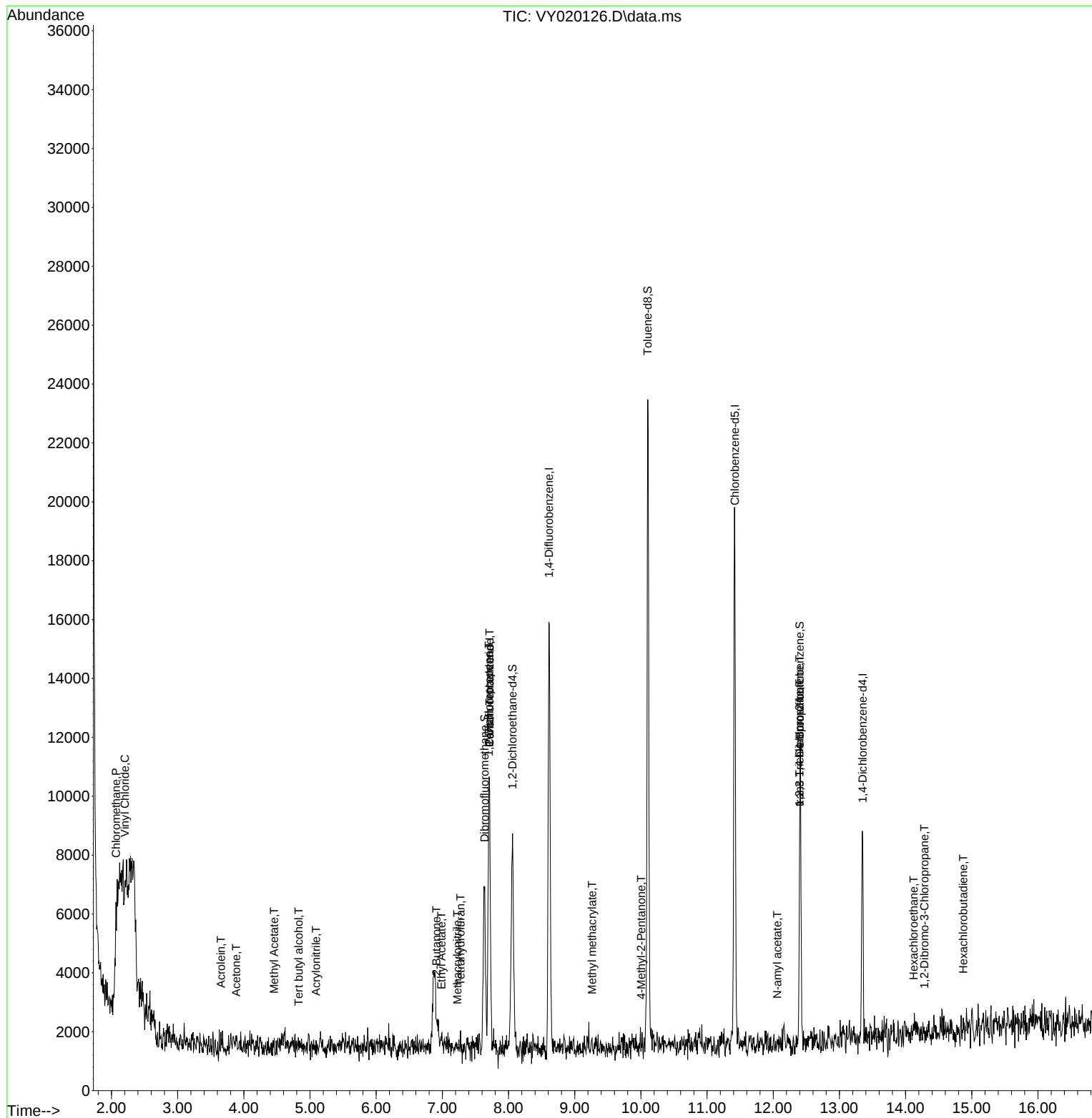
| Compound                      | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                         |                |      |                     |         |        |          |
| Internal Standards            |                |      |                     |         |        |          |
| 1) Pentafluorobenzene         | 7.713          | 168  | 6732                | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.610          | 114  | 12126               | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.420         | 117  | 9087                | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.353         | 152  | 1630                | 50.000  | ug/l   | 0.00     |
|                               |                |      |                     |         |        |          |
| System Monitoring Compounds   |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.061          | 65   | 5003                | 59.546  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 119.100% |         |        |          |
| 35) Dibromofluoromethane      | 7.640          | 113  | 4398                | 57.045  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 114.100% |         |        |          |
| 50) Toluene-d8                | 10.103         | 98   | 14147               | 46.099  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 134 |      | Recovery = 92.200%  |         |        |          |
| 62) 4-Bromofluorobenzene      | 12.402         | 95   | 2719                | 27.278  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 29 - 146 |      | Recovery = 54.560%  |         |        |          |
|                               |                |      |                     |         |        |          |
| Target Compounds              |                |      |                     |         |        | Qvalue   |
| 3) Chloromethane              | 2.068          | 50   | 221                 | 2.141   | ug/l # | 43       |
| 4) Vinyl Chloride             | 2.202          | 62   | 204                 | 1.841   | ug/l # | 42       |
| 11) Tert butyl alcohol        | 4.830          | 59   | 91                  | 15.057  | ug/l # | 88       |
| 13) Acrolein                  | 3.653          | 56   | 27                  | 3.589   | ug/l # | 15       |
| 15) Acrylonitrile             | 5.092          | 53   | 44                  | 2.560   | ug/l # | 1        |
| 16) Acetone                   | 3.885          | 43   | 329                 | 16.838  | ug/l   | 95       |
| 18) Methyl Acetate            | 4.458          | 43   | 111                 | 2.421   | ug/l # | 46       |
| 25) 2-Butanone                | 6.909          | 43   | 63                  | 2.379   | ug/l # | 41       |
| 29) Tetrahydrofuran           | 7.274          | 42   | 32                  | 2.094   | ug/l # | 26       |
| 36) 1,1-Dichloropropene       | 7.701          | 75   | 727                 | 6.104   | ug/l # | 40       |
| 37) Ethyl Acetate             | 6.988          | 43   | 68                  | 1.198   | ug/l # | 67       |
| 38) Carbon Tetrachloride      | 7.713          | 117  | 854                 | 7.131   | ug/l # | 13       |
| 41) Methacrylonitrile         | 7.226          | 41   | 46                  | 1.617   | ug/l # | 1        |
| 48) Methyl methacrylate       | 9.262          | 41   | 76                  | 1.503   | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 10.006         | 43   | 157                 | 2.791   | ug/l # | 31       |
| 74) N-amyl acetate            | 12.060         | 43   | 37                  | 1.137   | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.395         | 75   | 1925                | 125.985 | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.395         | 75   | 1925                | 270.990 | ug/l # | 16       |
| 90) Hexachloroethane          | 14.121         | 117  | 37                  | 1.661   | ug/l # | 12       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.285         | 75   | 19                  | 5.501   | ug/l # | 1        |
| 94) Hexachlorobutadiene       | 14.871         | 225  | 23                  | 1.684   | ug/l # | 19       |
| -----                         |                |      |                     |         |        |          |

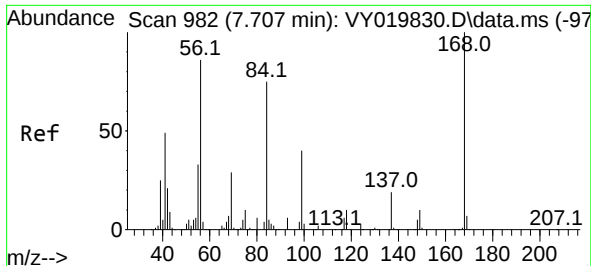
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Thu Oct 31 15:23:13 2024  
Response via : Initial Calibration

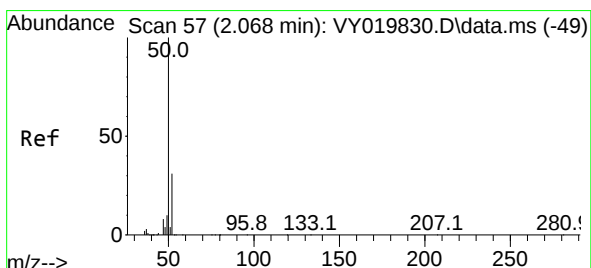
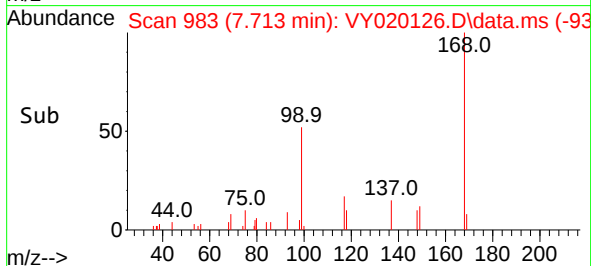
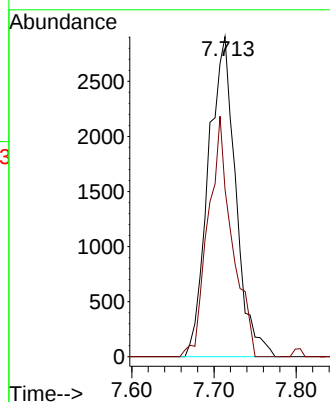
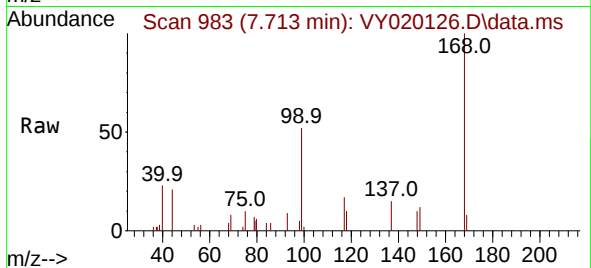




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.713 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY020126.D  
Acq: 01 Nov 2024 17:54

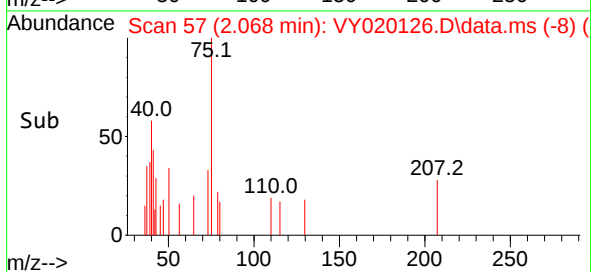
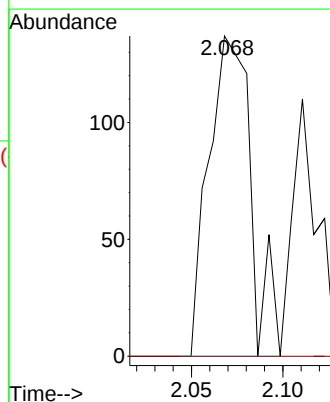
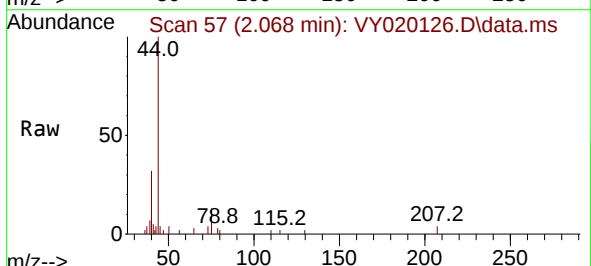
Instrument :  
MSVOA\_Y  
ClientSampleId :

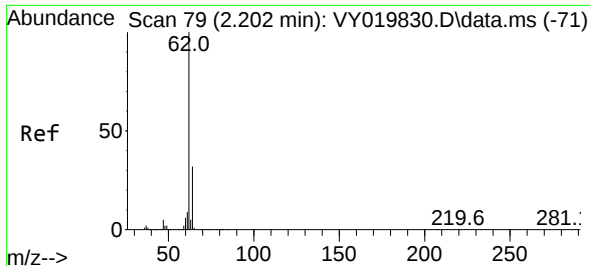
Tgt Ion:168 Resp: 6732  
Ion Ratio Lower Upper  
168 100  
99 52.4 39.1 58.7



#3  
Chloromethane  
Concen: 2.141 ug/l  
RT: 2.068 min Scan# 57  
Delta R.T. 0.000 min  
Lab File: VY020126.D  
Acq: 01 Nov 2024 17:54

Tgt Ion: 50 Resp: 221  
Ion Ratio Lower Upper  
50 100  
52 0.0 25.6 38.4#

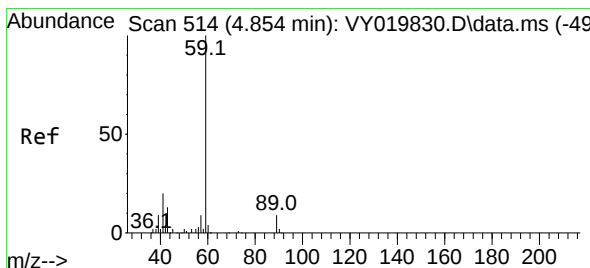
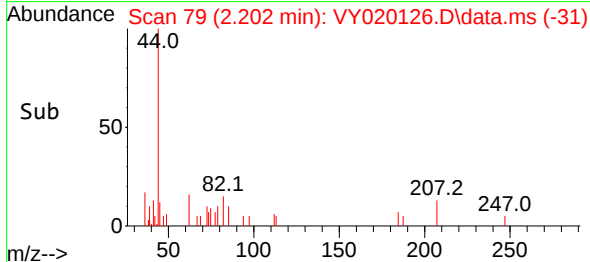
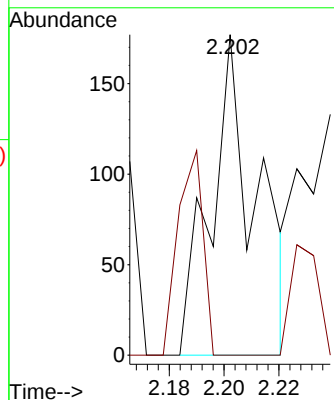
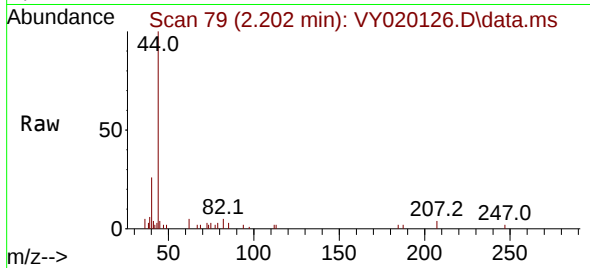




#4  
 Vinyl Chloride  
 Concen: 1.841 ug/l  
 RT: 2.202 min Scan# 79  
 Delta R.T. -0.006 min  
 Lab File: VY020126.D  
 Acq: 01 Nov 2024 17:54

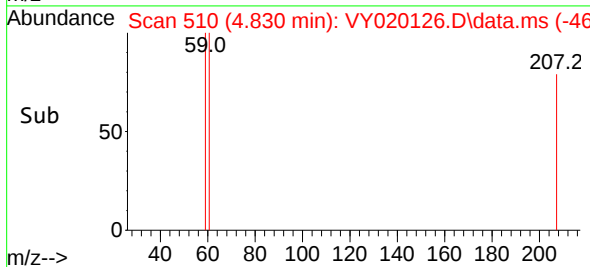
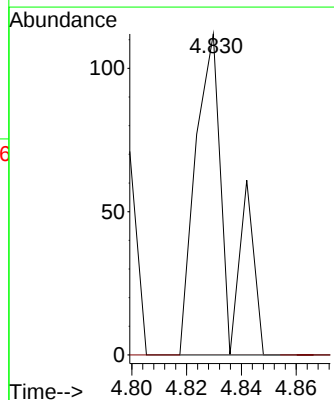
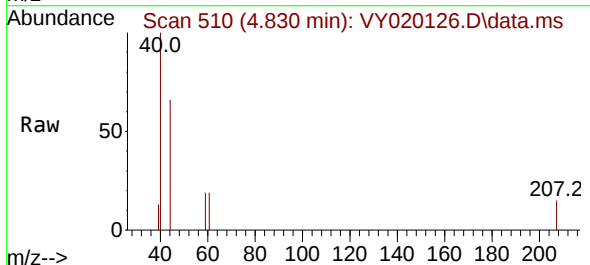
Instrument :  
 MSVOA\_Y  
 ClientSampleId :

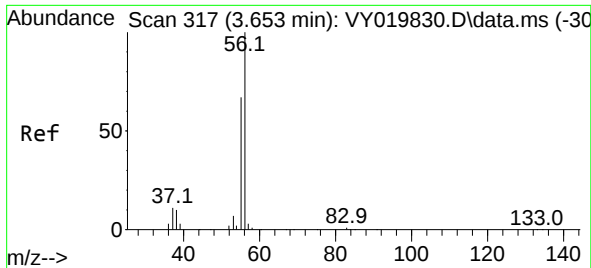
Tgt Ion: 62 Resp: 204  
 Ion Ratio Lower Upper  
 62 100  
 64 0.0 26.1 39.1#



#11  
 Tert butyl alcohol  
 Concen: 15.057 ug/l  
 RT: 4.830 min Scan# 510  
 Delta R.T. -0.030 min  
 Lab File: VY020126.D  
 Acq: 01 Nov 2024 17:54

Tgt Ion: 59 Resp: 91  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 3.0 4.6#

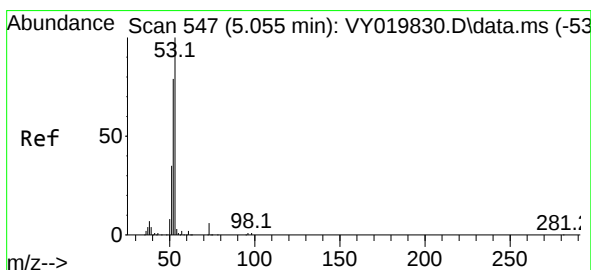
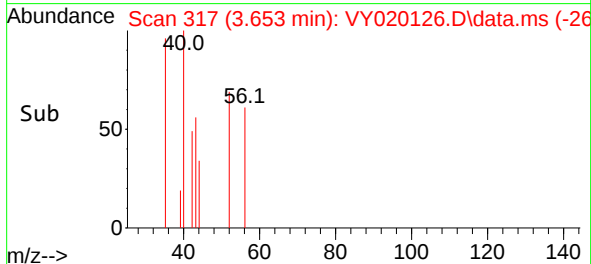
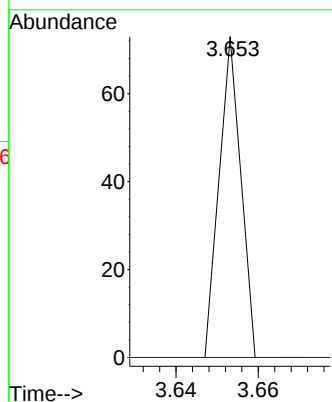
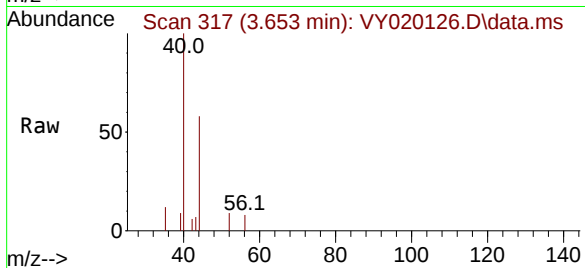




#13  
Acrolein  
Concen: 3.589 ug/l  
RT: 3.653 min Scan# 317  
Delta R.T. 0.000 min  
Lab File: VY020126.D  
Acq: 01 Nov 2024 17:54

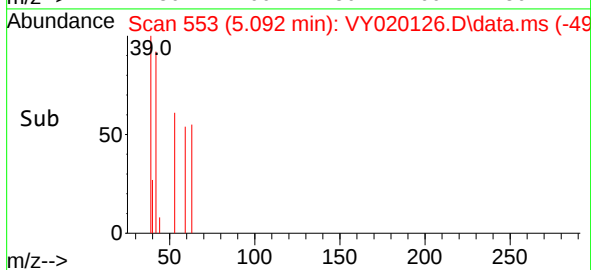
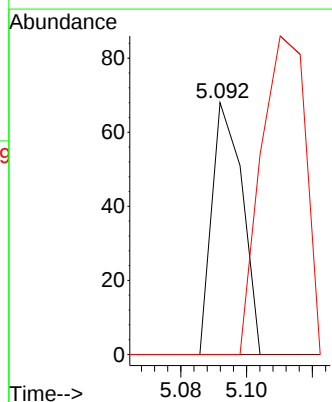
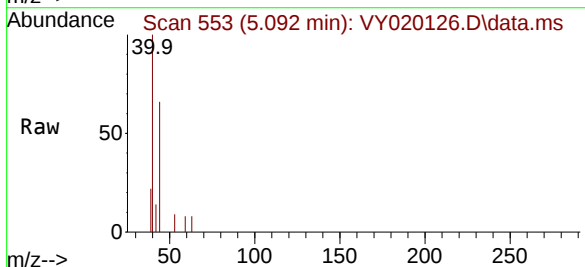
Instrument :  
MSVOA\_Y  
ClientSampleId :

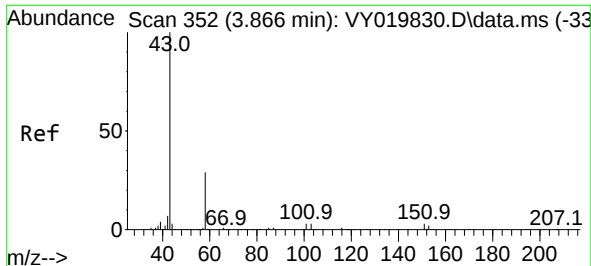
Tgt Ion: 56 Resp: 27  
Ion Ratio Lower Upper  
56 100  
55 0.0 55.7 83.5#



#15  
Acrylonitrile  
Concen: 2.560 ug/l  
RT: 5.092 min Scan# 553  
Delta R.T. 0.037 min  
Lab File: VY020126.D  
Acq: 01 Nov 2024 17:54

Tgt Ion: 53 Resp: 44  
Ion Ratio Lower Upper  
53 100  
52 0.0 64.7 97.1#  
51 184.1 28.4 42.6#

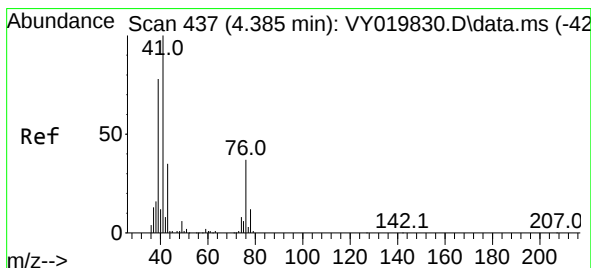
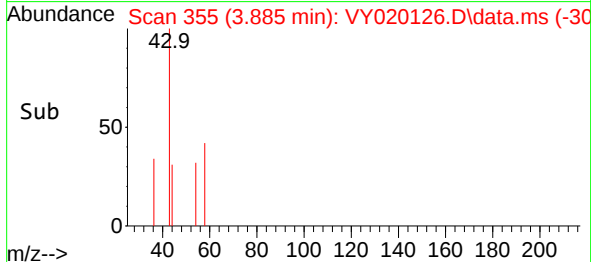
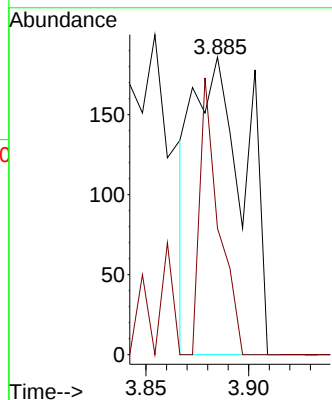
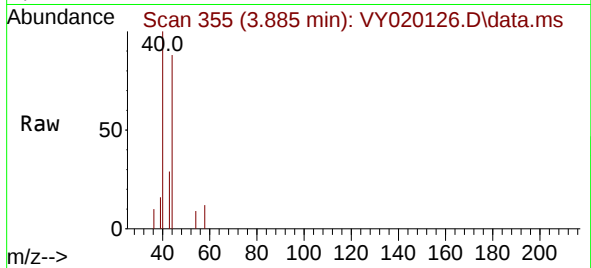




#16  
Acetone  
Concen: 16.838 ug/l  
RT: 3.885 min Scan# 311  
Delta R.T. 0.013 min  
Lab File: VY020126.D  
Acq: 01 Nov 2024 17:54

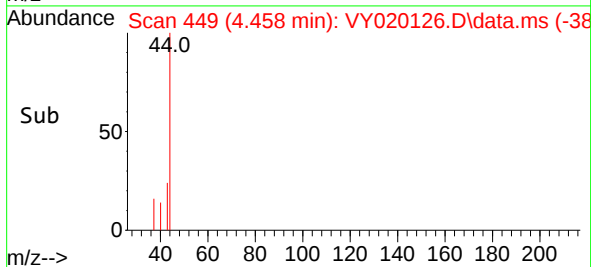
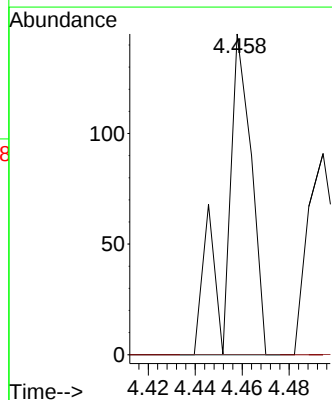
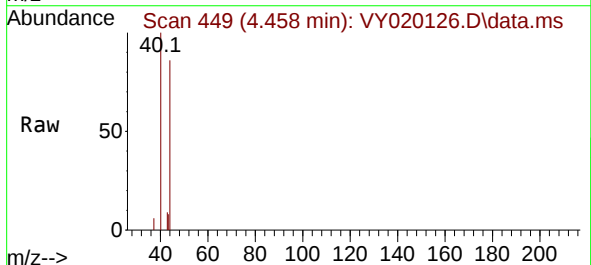
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MSVOA\_Y  
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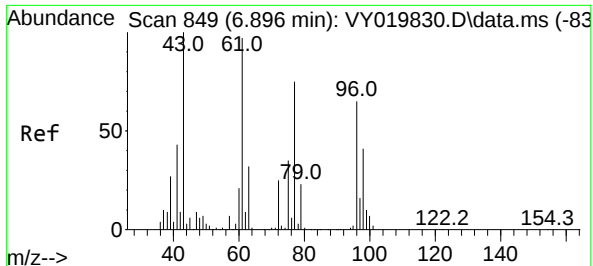
Tgt Ion: 43 Resp: 329  
Ion Ratio Lower Upper  
43 100  
58 42.5 31.7 47.5



#18  
Methyl Acetate  
Concen: 2.421 ug/l  
RT: 4.458 min Scan# 449  
Delta R.T. 0.074 min  
Lab File: VY020126.D  
Acq: 01 Nov 2024 17:54

Tgt Ion: 43 Resp: 111  
Ion Ratio Lower Upper  
43 100  
74 0.0 23.3 34.9#





#25

2-Butanone

Concen: 2.379 ug/l

RT: 6.909 min Scan# 81

Delta R.T. 0.019 min

Lab File: VY020126.D

Acq: 01 Nov 2024 17:54

Instrument :

MSVOA\_Y

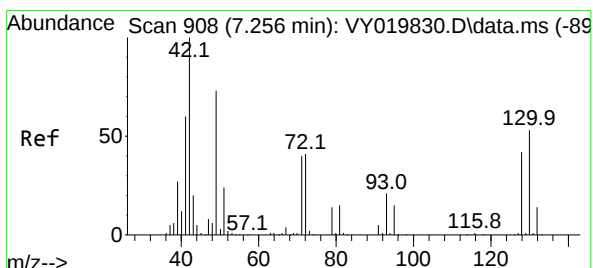
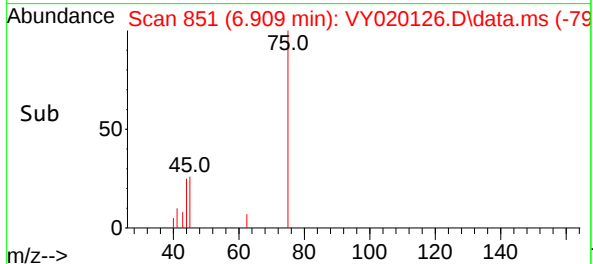
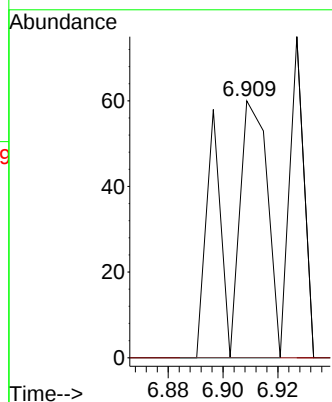
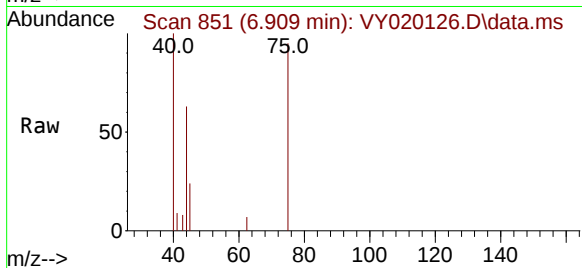
ClientSampleId :

Tgt Ion: 43 Resp: 63

Ion Ratio Lower Upper

43 100

72 0.0 27.3 40.9#



#29

Tetrahydrofuran

Concen: 2.094 ug/l

RT: 7.274 min Scan# 911

Delta R.T. 0.013 min

Lab File: VY020126.D

Acq: 01 Nov 2024 17:54

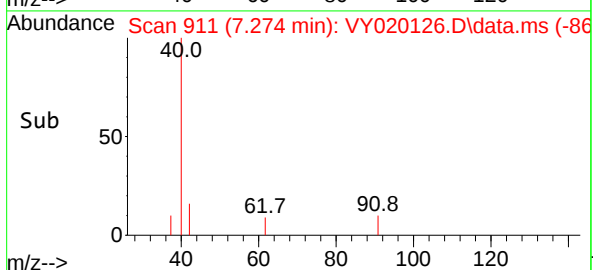
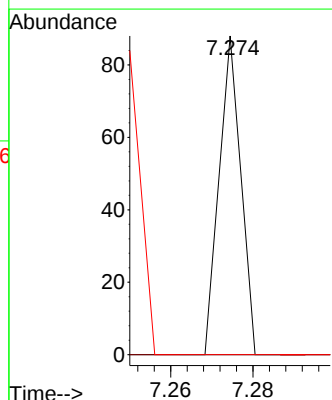
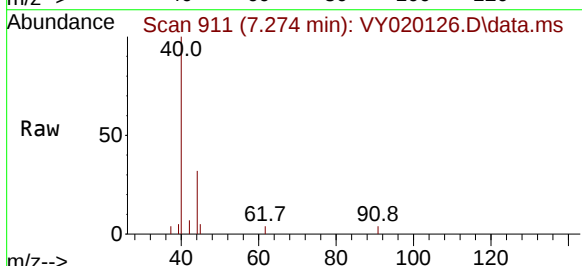
Tgt Ion: 42 Resp: 32

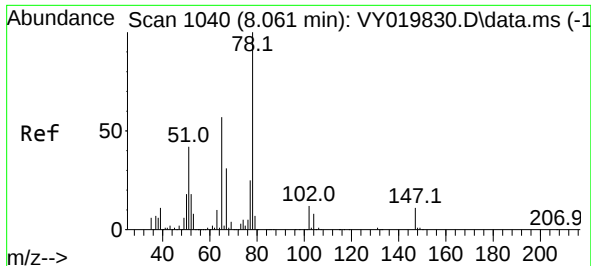
Ion Ratio Lower Upper

42 100

72 0.0 43.0 64.4#

71 0.0 40.8 61.2#





#33

1,2-Dichloroethane-d4

Concen: 59.546 ug/l

RT: 8.061 min Scan# 110

Delta R.T. 0.000 min

Lab File: VY020126.D

Acq: 01 Nov 2024 17:54

Instrument :

MSVOA\_Y

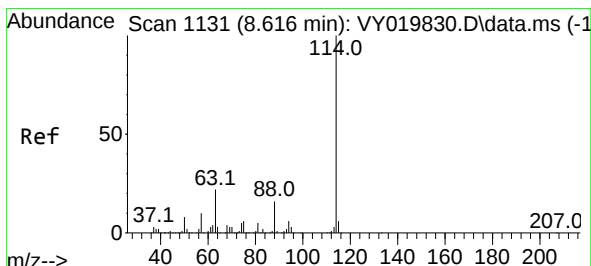
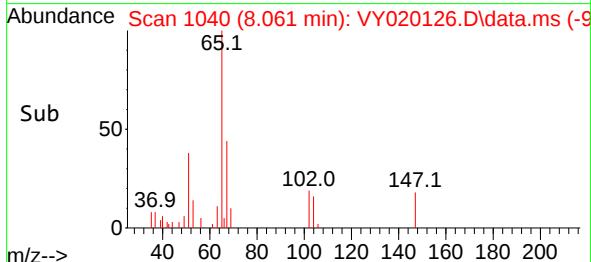
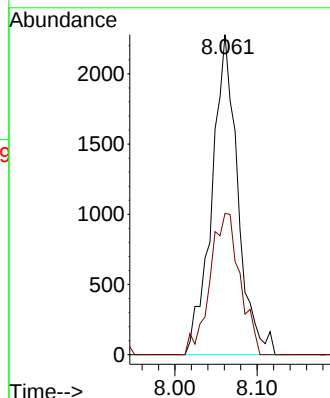
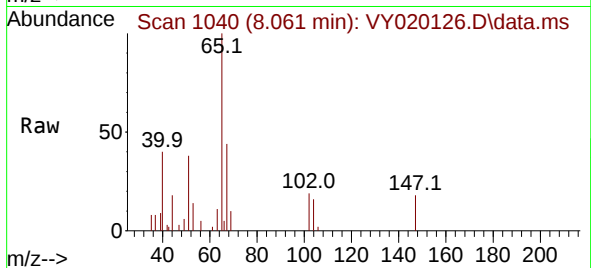
ClientSampleId :

Tgt Ion: 65 Resp: 5003

Ion Ratio Lower Upper

65 100

67 51.0 0.0 109.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.610 min Scan# 1130

Delta R.T. -0.006 min

Lab File: VY020126.D

Acq: 01 Nov 2024 17:54

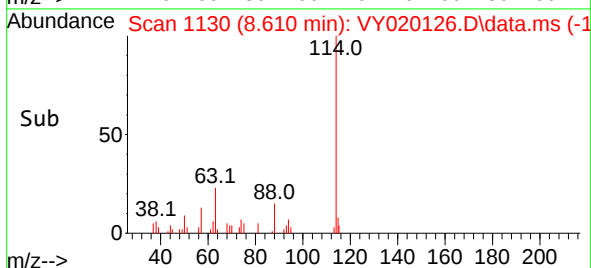
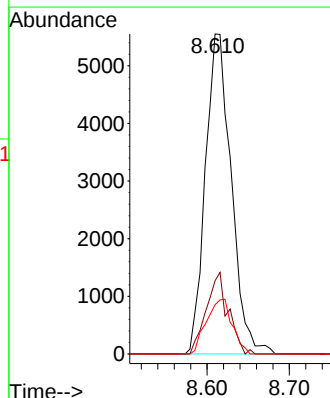
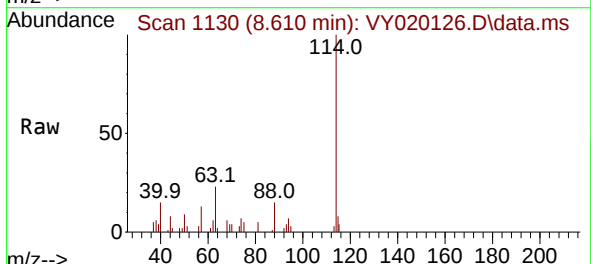
Tgt Ion: 114 Resp: 12126

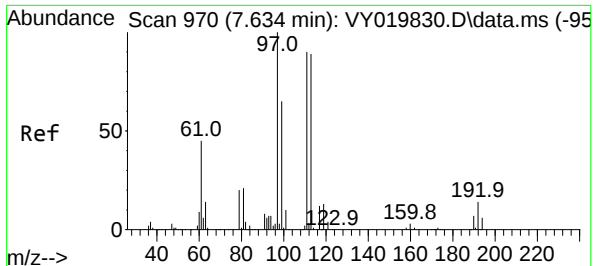
Ion Ratio Lower Upper

114 100

63 22.9 0.0 35.0

88 15.4 0.0 27.2





#35

Dibromofluoromethane

Concen: 57.045 ug/l

RT: 7.640 min Scan# 91

Delta R.T. 0.006 min

Lab File: VY020126.D

Acq: 01 Nov 2024 17:54

Instrument :

MSVOA\_Y

ClientSampleId :

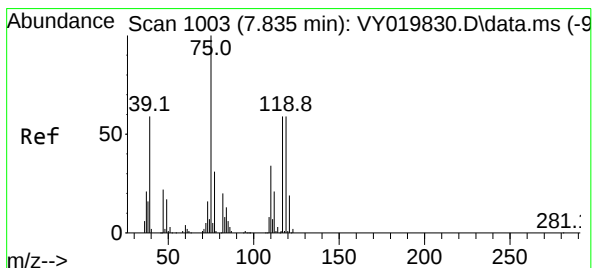
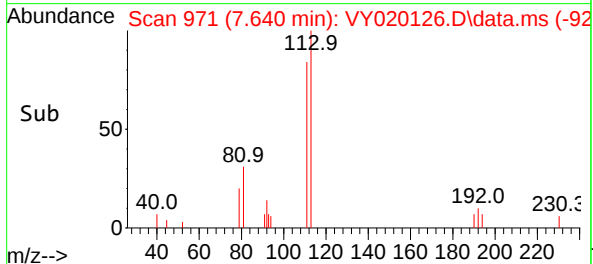
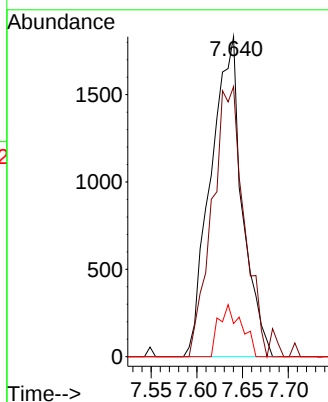
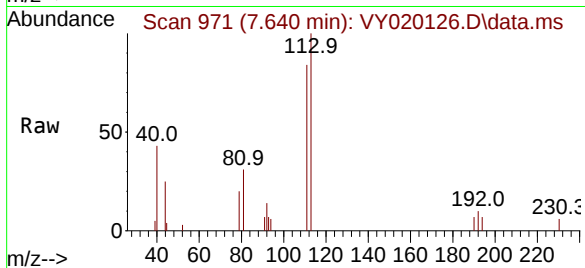
Tgt Ion:113 Resp: 4398

Ion Ratio Lower Upper

113 100

111 85.2 82.2 123.4

192 11.7 15.9 23.9#



#36

1,1-Dichloropropene

Concen: 6.104 ug/l

RT: 7.701 min Scan# 981

Delta R.T. -0.134 min

Lab File: VY020126.D

Acq: 01 Nov 2024 17:54

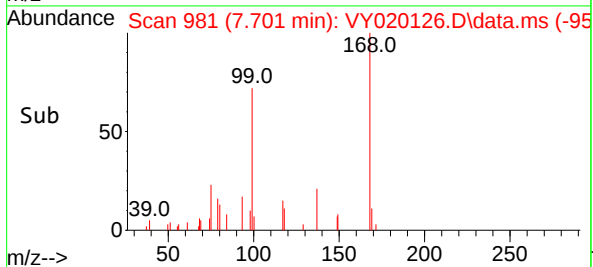
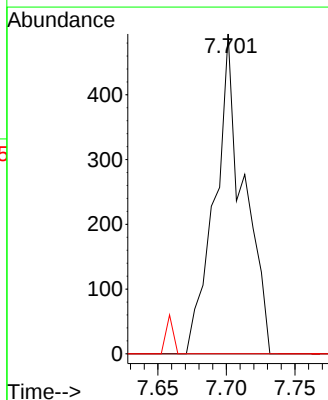
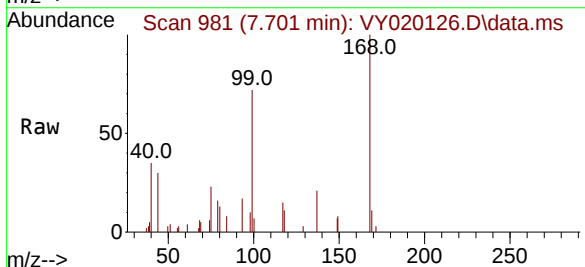
Tgt Ion: 75 Resp: 727

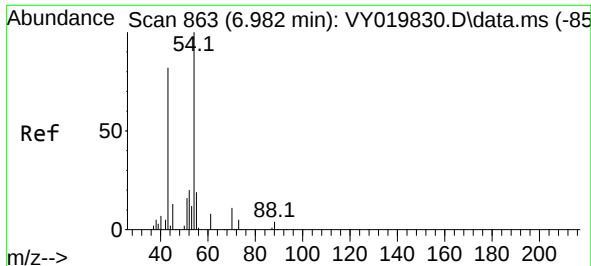
Ion Ratio Lower Upper

75 100

110 0.0 19.0 57.0#

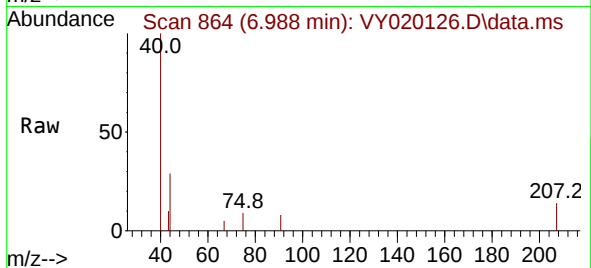
77 0.0 25.3 37.9#



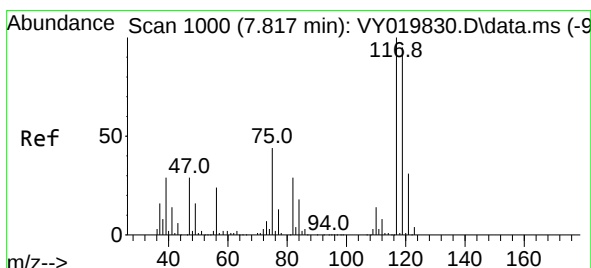
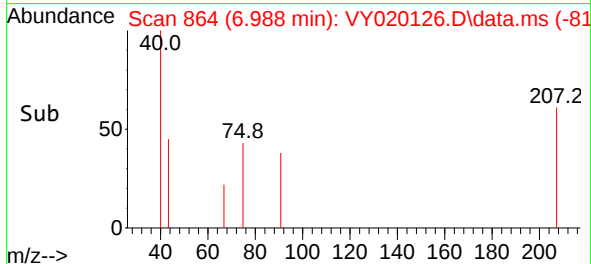
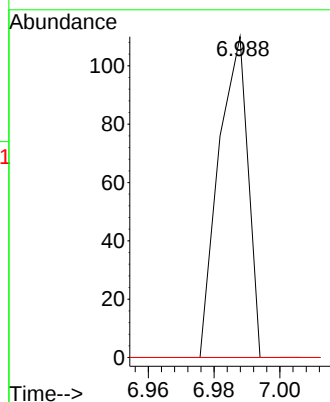


#37  
Ethyl Acetate  
Concen: 1.198 ug/l  
RT: 6.988 min Scan# 80  
Delta R.T. 0.006 min  
Lab File: VY020126.D  
Acq: 01 Nov 2024 17:54

Instrument :  
MSVOA\_Y  
ClientSampleId :

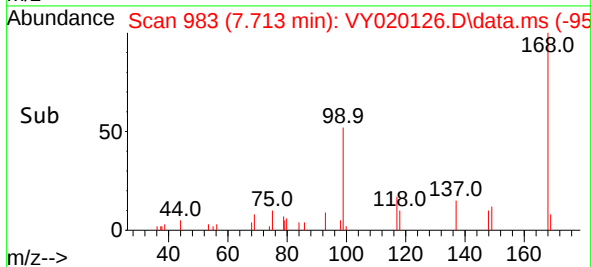
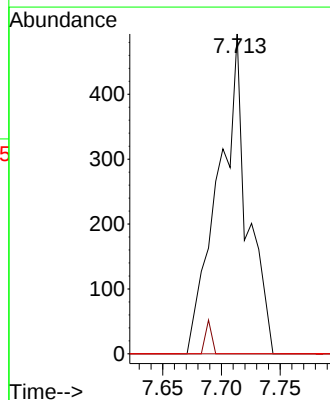
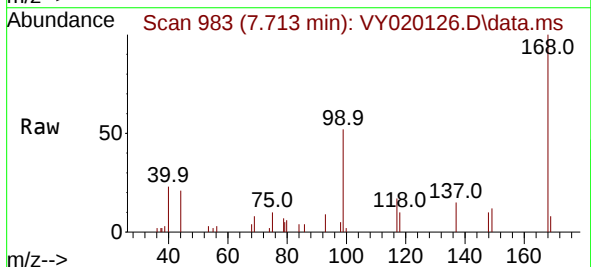


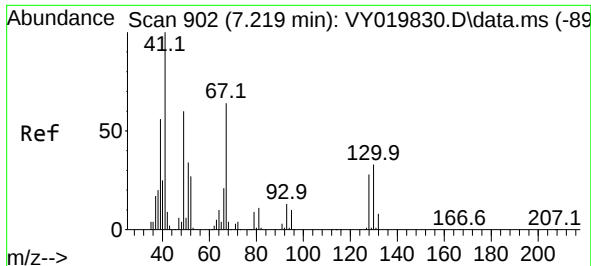
Tgt Ion: 43 Resp: 68  
Ion Ratio Lower Upper  
43 100  
61 0.0 12.6 19.0#  
70 0.0 7.8 11.8#



#38  
Carbon Tetrachloride  
Concen: 7.131 ug/l  
RT: 7.713 min Scan# 983  
Delta R.T. -0.103 min  
Lab File: VY020126.D  
Acq: 01 Nov 2024 17:54

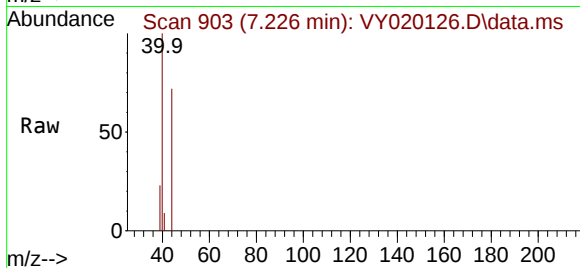
Tgt Ion: 117 Resp: 854  
Ion Ratio Lower Upper  
117 100  
119 0.0 75.8 113.6#  
121 0.0 24.0 36.0#



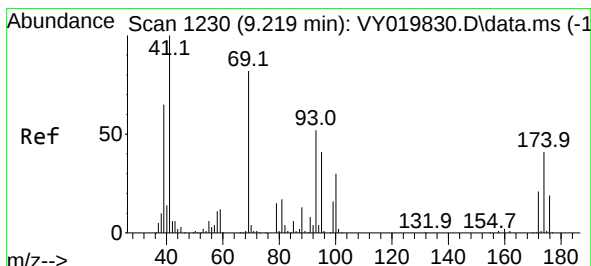
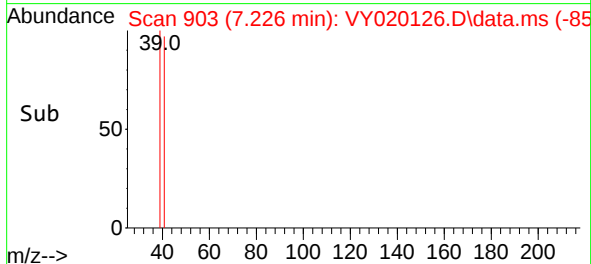
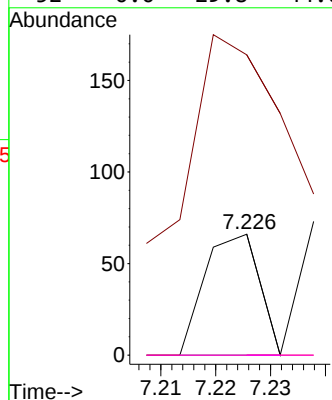


#41  
Methacrylonitrile  
Concen: 1.617 ug/l  
RT: 7.226 min Scan# 902  
Delta R.T. 0.006 min  
Lab File: VY020126.D  
Acq: 01 Nov 2024 17:54

Instrument :  
MSVOA\_Y  
ClientSampleId :

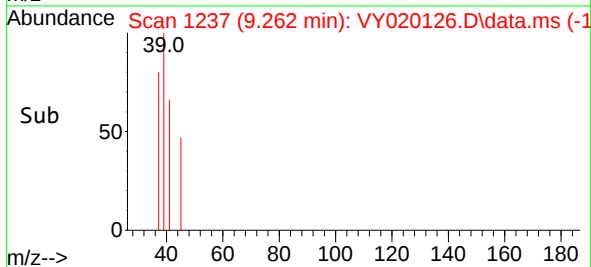
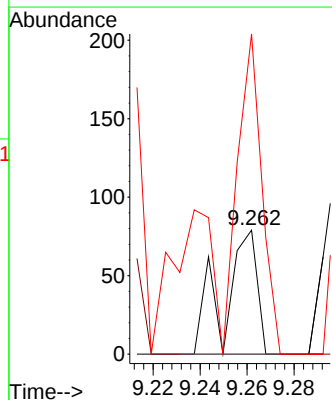
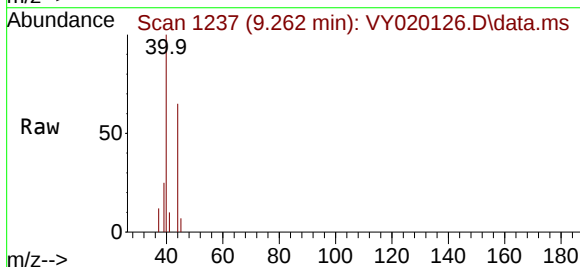


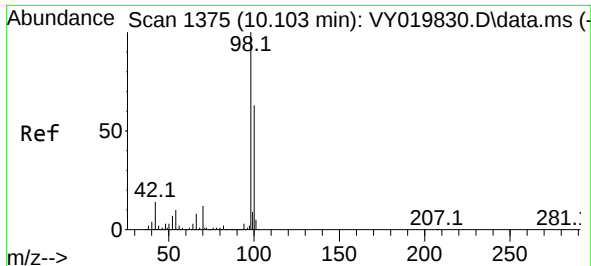
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 41    | Resp: | 46     |
| Ion      | Ratio | Lower | Upper  |
| 41       | 100   |       |        |
| 39       | 719.6 | 48.0  | 72.0#  |
| 67       | 0.0   | 75.1  | 112.7# |
| 52       | 0.0   | 29.8  | 44.6#  |



#48  
Methyl methacrylate  
Concen: 1.503 ug/l  
RT: 9.262 min Scan# 1237  
Delta R.T. 0.043 min  
Lab File: VY020126.D  
Acq: 01 Nov 2024 17:54

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 41    | Resp: | 76     |
| Ion      | Ratio | Lower | Upper  |
| 41       | 100   |       |        |
| 69       | 0.0   | 84.1  | 126.1# |
| 39       | 192.1 | 43.6  | 65.4#  |

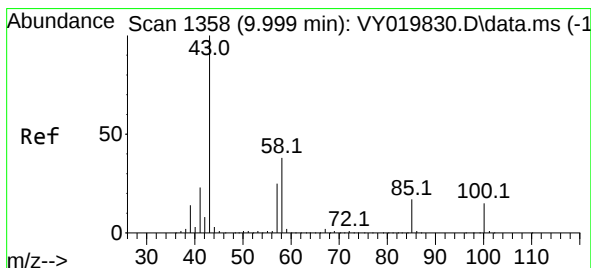
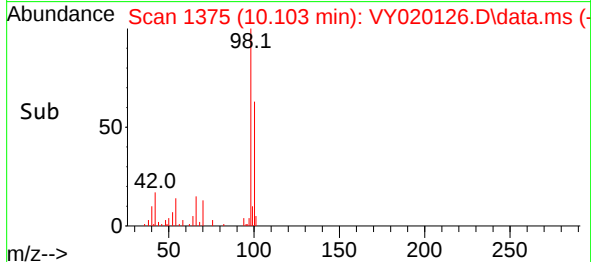
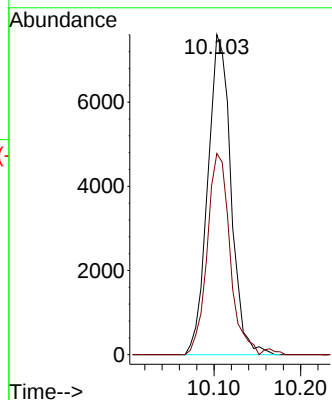
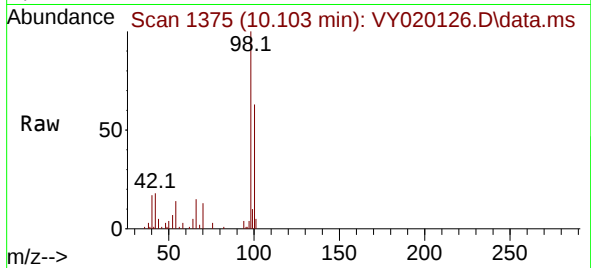




#50  
Toluene-d8  
Concen: 46.099 ug/l  
RT: 10.103 min Scan# 1375  
Delta R.T. -0.006 min  
Lab File: VY020126.D  
Acq: 01 Nov 2024 17:54

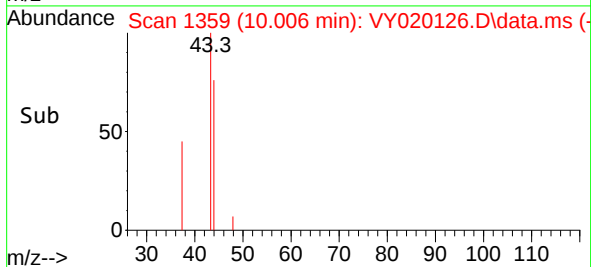
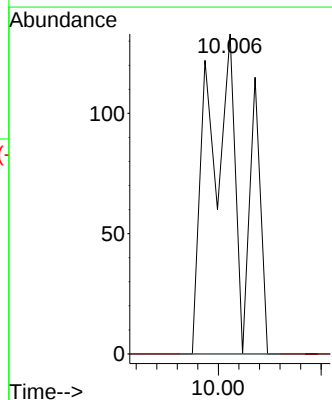
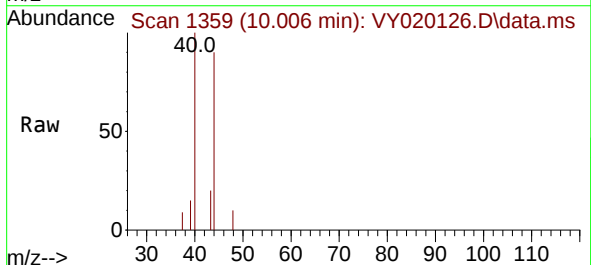
Instrument :  
MSVOA\_Y  
ClientSampleId :

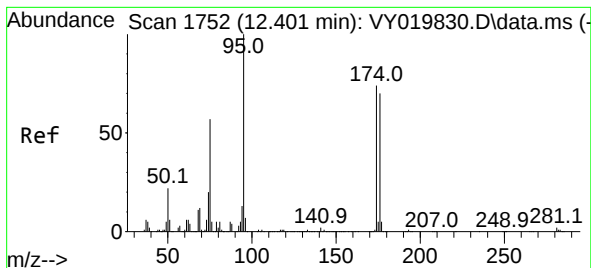
Tgt Ion: 98 Resp: 14147  
Ion Ratio Lower Upper  
98 100  
100 61.6 52.0 78.0



#51  
4-Methyl-2-Pentanone  
Concen: 2.791 ug/l  
RT: 10.006 min Scan# 1359  
Delta R.T. 0.006 min  
Lab File: VY020126.D  
Acq: 01 Nov 2024 17:54

Tgt Ion: 43 Resp: 157  
Ion Ratio Lower Upper  
43 100  
58 0.0 35.7 53.5#

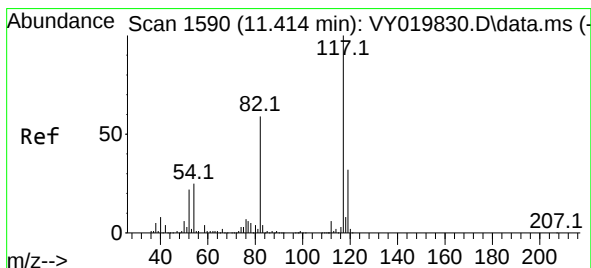
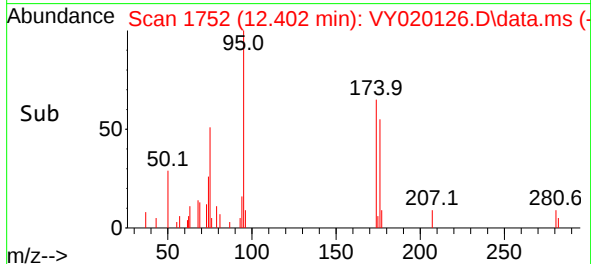
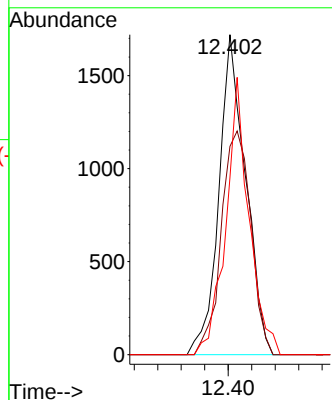
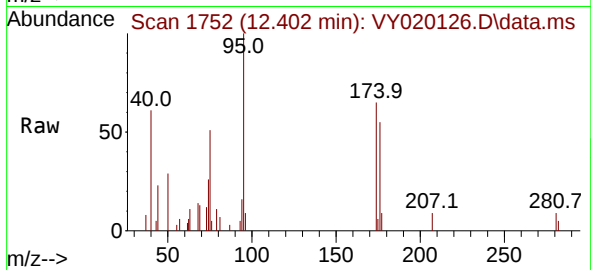




#62  
4-Bromofluorobenzene  
Concen: 27.278 ug/l  
RT: 12.402 min Scan# 1752  
Delta R.T. -0.006 min  
Lab File: VY020126.D  
Acq: 01 Nov 2024 17:54

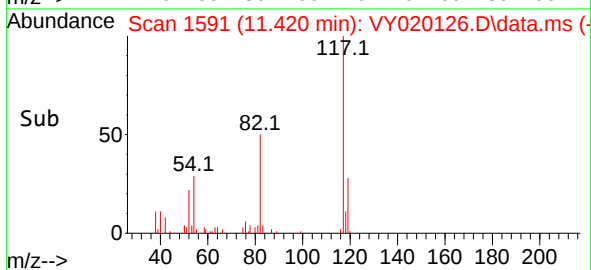
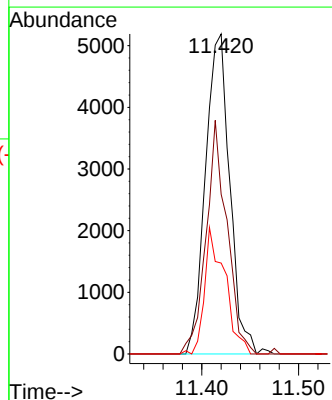
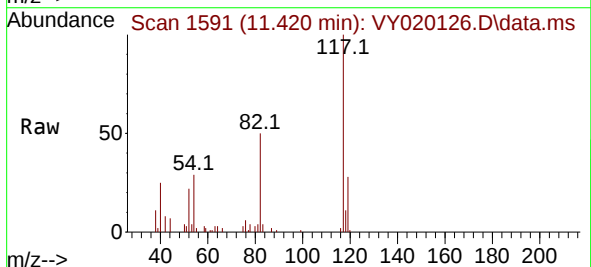
Instrument :  
MSVOA\_Y  
ClientSampleId :

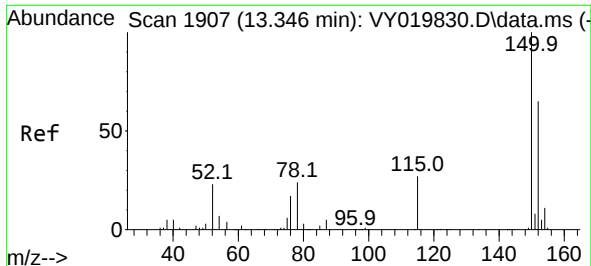
Tgt Ion: 95 Resp: 2719  
Ion Ratio Lower Upper  
95 100  
174 77.3 0.0 175.6  
176 74.7 0.0 171.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.420 min Scan# 1591  
Delta R.T. 0.000 min  
Lab File: VY020126.D  
Acq: 01 Nov 2024 17:54

Tgt Ion: 117 Resp: 9087  
Ion Ratio Lower Upper  
117 100  
82 49.9 42.4 63.6  
119 28.4 25.9 38.9

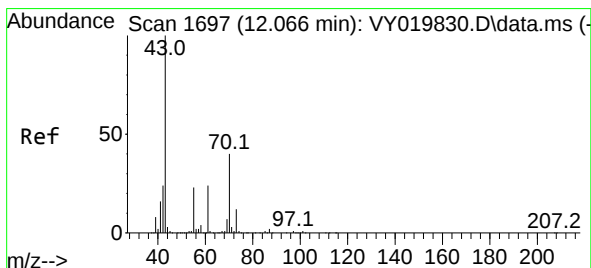
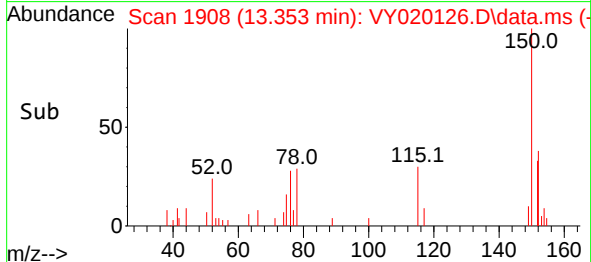
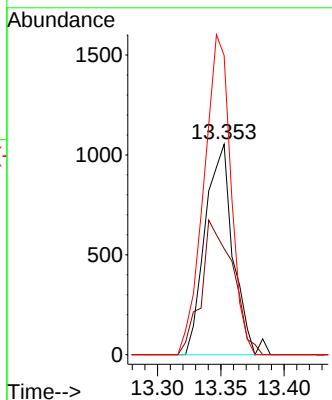
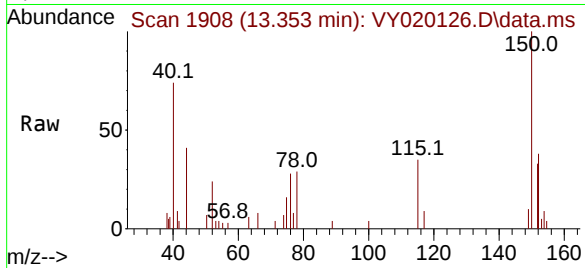




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.353 min Scan# 1907  
 Delta R.T. 0.006 min  
 Lab File: VY020126.D  
 Acq: 01 Nov 2024 17:54

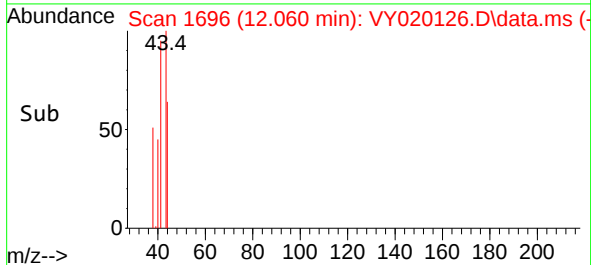
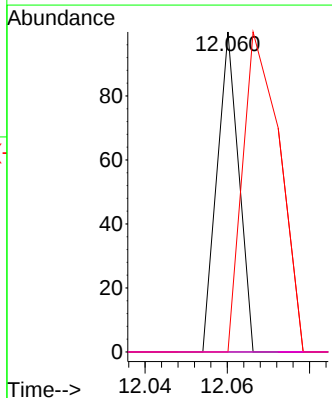
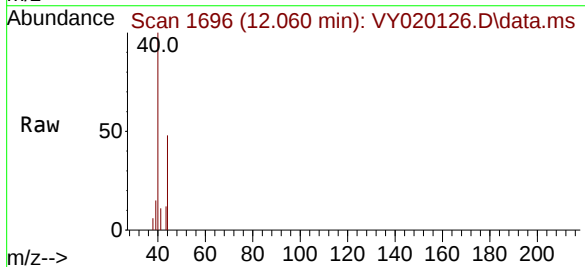
Instrument :  
 MSVOA\_Y  
 ClientSampleId :

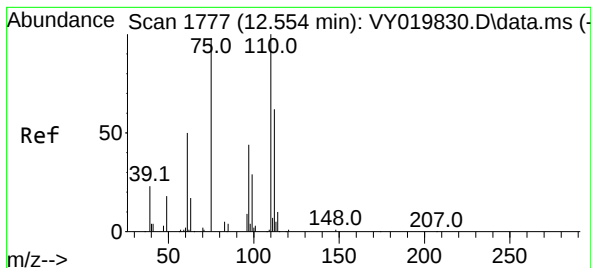
Tgt Ion:152 Resp: 1630  
 Ion Ratio Lower Upper  
 152 100  
 115 72.0 28.2 84.7  
 150 145.8 0.0 345.6



#74  
 N-ethyl acetate  
 Concen: 1.137 ug/l  
 RT: 12.060 min Scan# 1696  
 Delta R.T. -0.012 min  
 Lab File: VY020126.D  
 Acq: 01 Nov 2024 17:54

Tgt Ion: 43 Resp: 37  
 Ion Ratio Lower Upper  
 43 100  
 70 0.0 41.4 62.2#  
 55 167.6 23.3 34.9#  
 61 0.0 22.6 33.8#





#76

1,2,3-Trichloropropane

Concen: 125.985 ug/l

RT: 12.395 min Scan# 1751

Delta R.T. -0.164 min

Lab File: VY020126.D

Acq: 01 Nov 2024 17:54

Instrument :

MSVOA\_Y

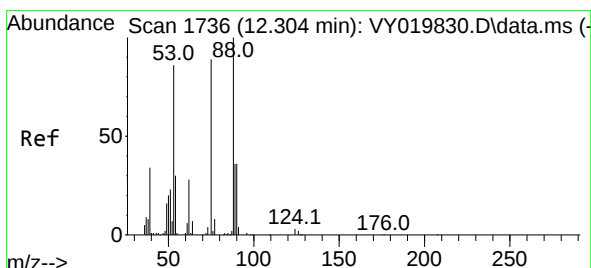
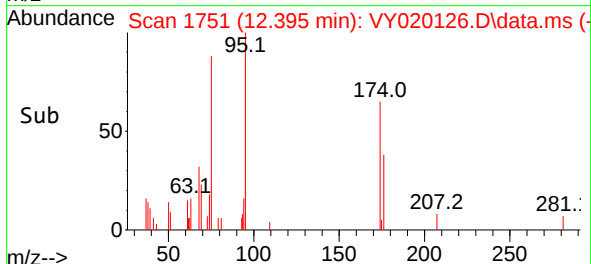
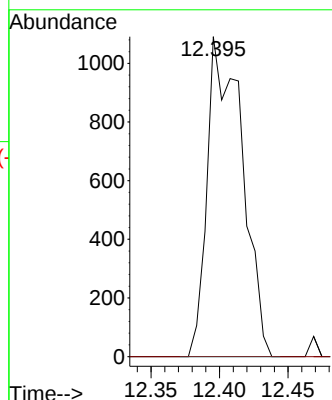
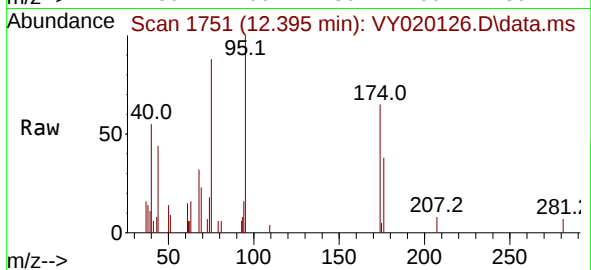
ClientSampleId :

Tgt Ion: 75 Resp: 1925

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0



#81

trans-1,4-Dichloro-2-butene

Concen: 270.990 ug/l

RT: 12.395 min Scan# 1751

Delta R.T. 0.092 min

Lab File: VY020126.D

Acq: 01 Nov 2024 17:54

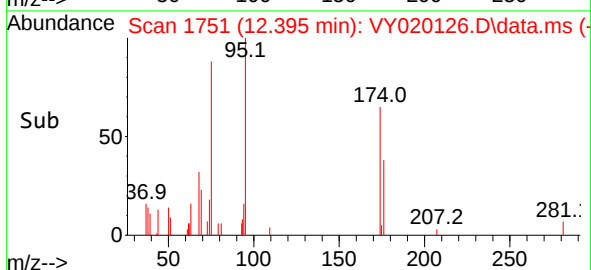
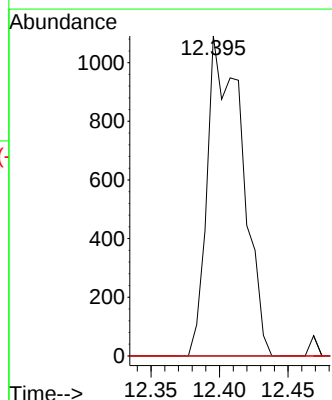
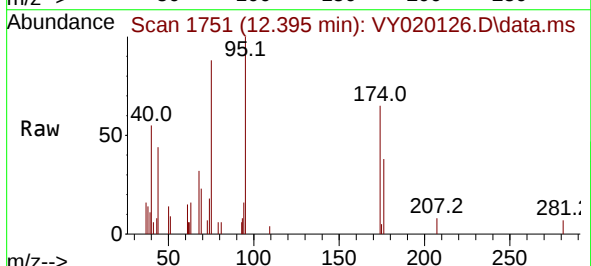
Tgt Ion: 75 Resp: 1925

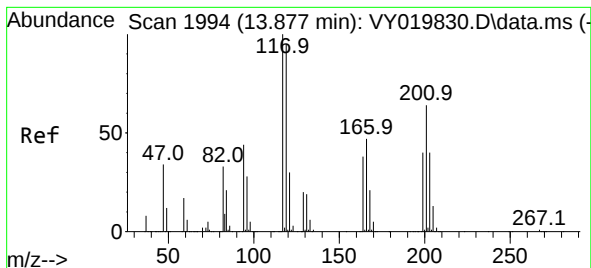
Ion Ratio Lower Upper

75 100

53 0.0 66.8 100.2#

89 0.0 35.8 53.6#





#90

Hexachloroethane

Concen: 1.661 ug/l

RT: 14.121 min Scan# 2061

Delta R.T. 0.238 min

Lab File: VY020126.D

Acq: 01 Nov 2024 17:54

Instrument :

MSVOA\_Y

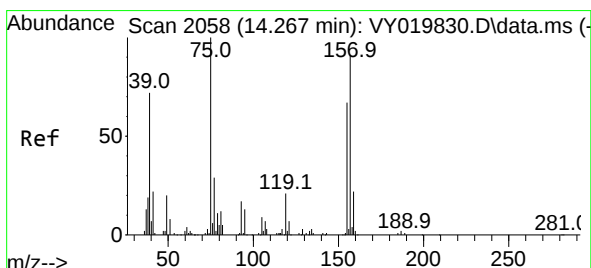
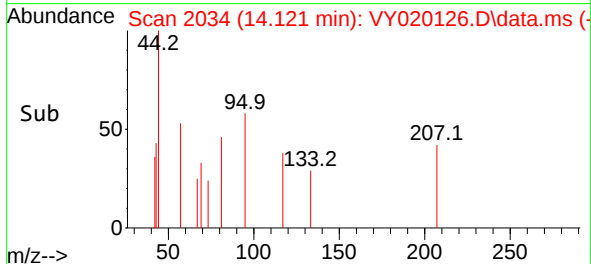
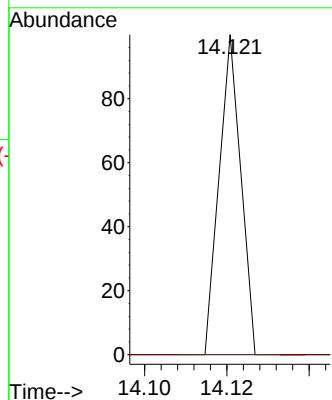
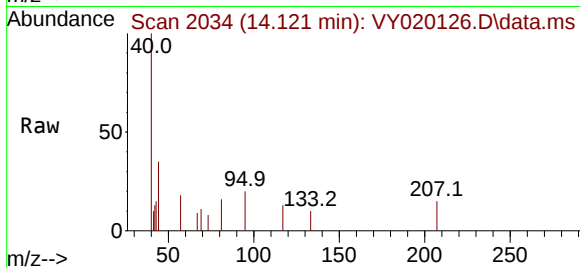
ClientSampleId :

Tgt Ion:117 Resp: 37

Ion Ratio Lower Upper

117 100

201 0.0 37.4 112.2#



#92

1,2-Dibromo-3-Chloropropane

Concen: 5.501 ug/l

RT: 14.285 min Scan# 2061

Delta R.T. 0.013 min

Lab File: VY020126.D

Acq: 01 Nov 2024 17:54

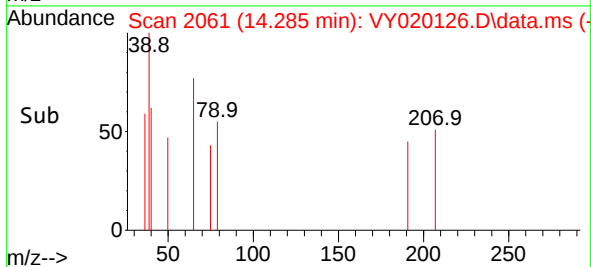
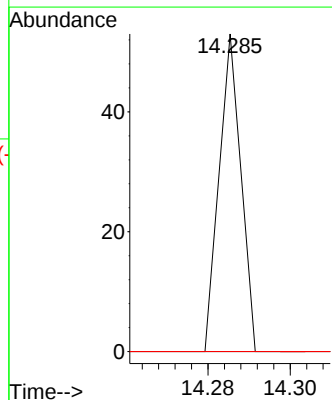
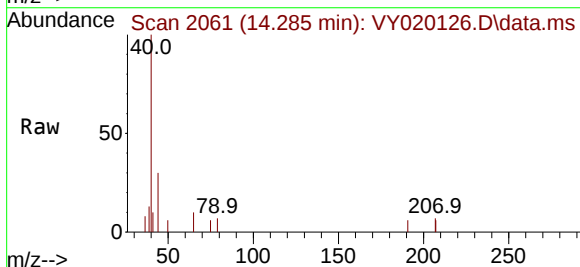
Tgt Ion: 75 Resp: 19

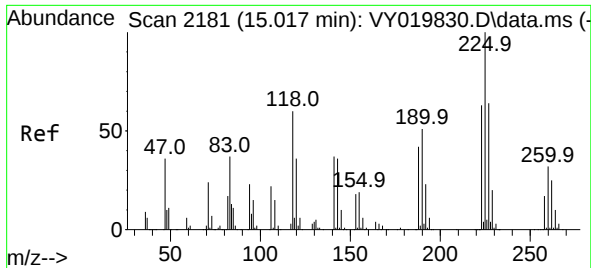
Ion Ratio Lower Upper

75 100

155 0.0 48.6 145.8#

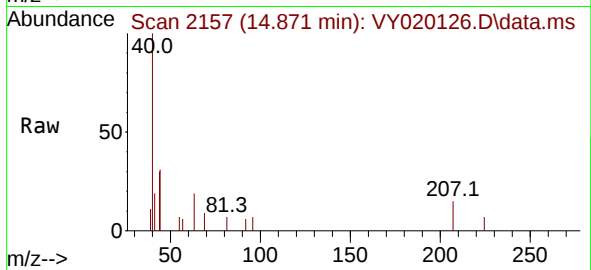
157 0.0 62.7 188.2#





#94  
 Hexachlorobutadiene  
 Concen: 1.684 ug/l  
 RT: 14.871 min Scan# 21  
 Delta R.T. -0.152 min  
 Lab File: VY020126.D  
 Acq: 01 Nov 2024 17:54

Instrument :  
 MSVOA\_Y  
 ClientSampleId :



Tgt Ion:225 Resp: 23  
 Ion Ratio Lower Upper  
 225 100  
 223 0.0 30.4 91.2#  
 227 0.0 31.9 95.9#

