

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY082024\  
 Data File : VY019162.D  
 Acq On : 20 Aug 2024 19:42  
 Operator : SY/MD  
 Sample : P3534-01  
 Misc : 7.69g/5.0mL/MSVOA\_Y/SOIL/A  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Aug 21 01:34:40 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y081524S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 16 05:10:30 2024  
 Response via : Initial Calibration

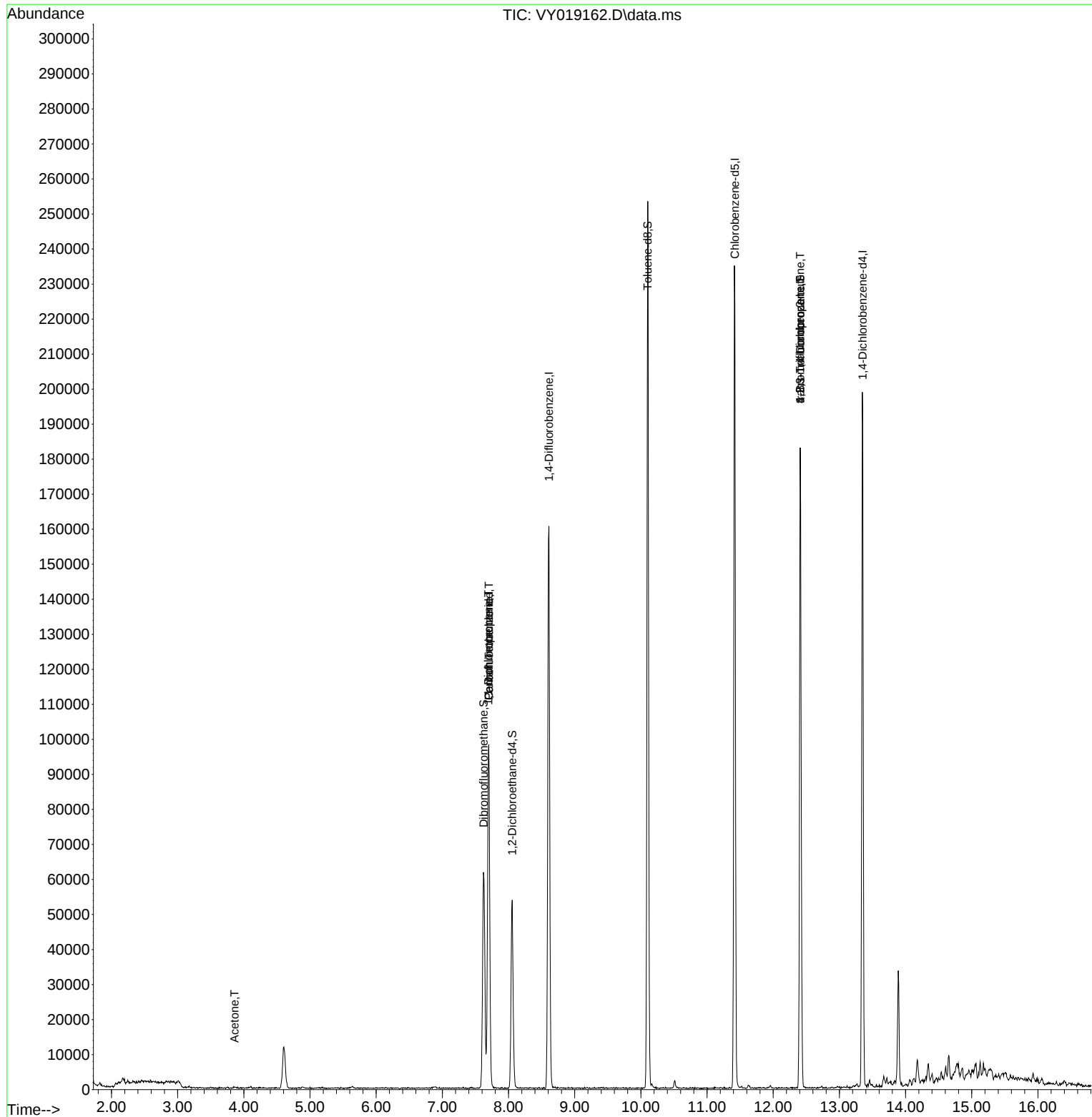
| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 7.701          | 168  | 78293               | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.610          | 114  | 140713              | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.420         | 117  | 127573              | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.353         | 152  | 49015               | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.055          | 65   | 39350               | 50.139    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 100.280% |           |        |          |
| 35) Dibromofluoromethane      | 7.622          | 113  | 44452               | 48.314    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 96.620%  |           |        |          |
| 50) Toluene-d8                | 10.103         | 98   | 157741              | 47.642    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 134 |      | Recovery = 95.280%  |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.408         | 95   | 48407               | 42.887    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 29 - 146 |      | Recovery = 85.780%  |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      |                     |           |        |          |
| 5) Bromomethane               | 2.592          | 94   | 149                 | Below Cal | #      | 43       |
| 6) Chloroethane               | 2.550          | 64   | 21                  | Below Cal | #      | 42       |
| 11) Tert butyl alcohol        | 4.842          | 59   | 87                  | Below Cal | #      | 88       |
| 13) Acrolein                  | 3.696          | 56   | 25                  | Below Cal | #      | 15       |
| 16) Acetone                   | 3.860          | 43   | 418                 | 2.872     | ug/l   | 87       |
| 20) Methylene Chloride        | 4.604          | 84   | 8818                | Below Cal |        | 97       |
| 31) Cyclohexane               | 7.695          | 56   | 1779                | Below Cal | #      | 24       |
| 36) 1,1-Dichloropropene       | 7.695          | 75   | 6135                | 4.856     | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 7.701          | 117  | 7657                | 5.230     | ug/l # | 18       |
| 76) 1,2,3-Trichloropropane    | 12.408         | 75   | 26254               | 54.314    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.408         | 75   | 26254               | 134.137   | ug/l # | 16       |
| -----                         |                |      |                     |           |        |          |

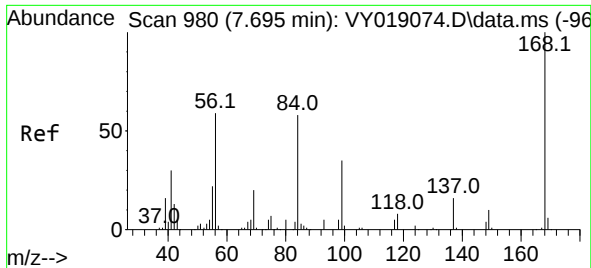
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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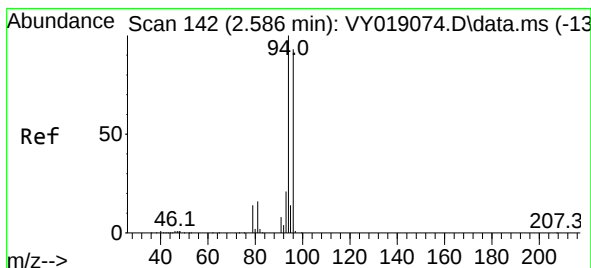
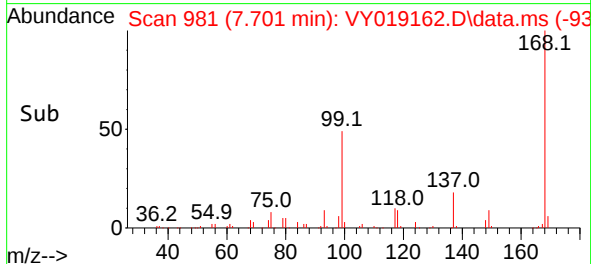
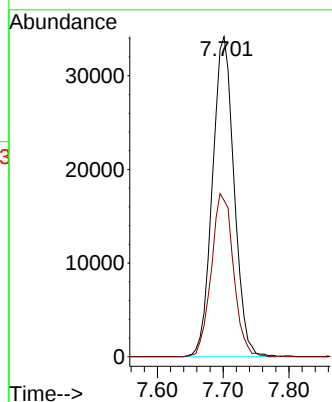
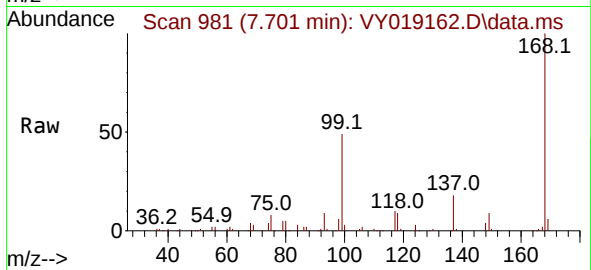




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.701 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY019162.D  
Acq: 20 Aug 2024 19:42

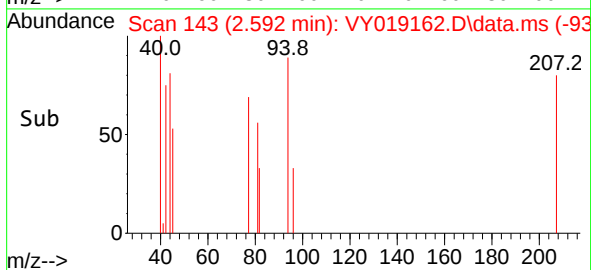
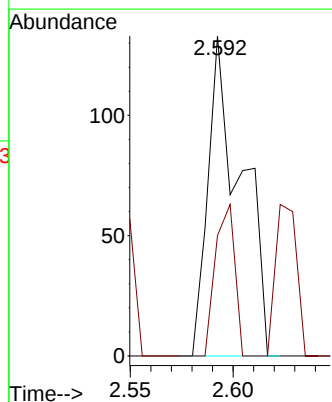
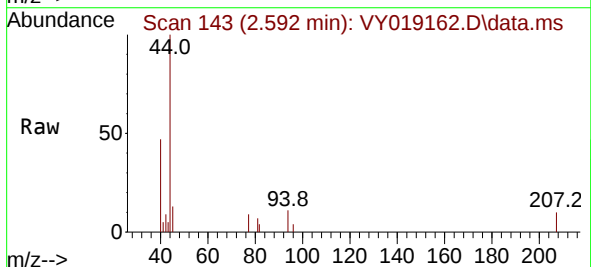
Instrument :  
MSVOA\_Y  
ClientSampleId :

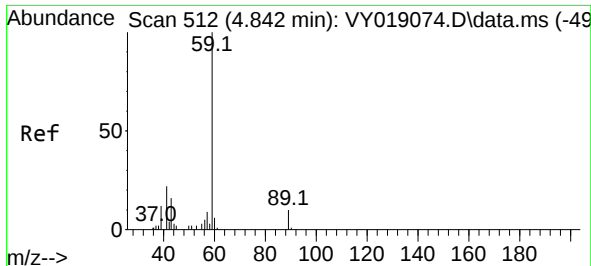
Tgt Ion:168 Resp: 78293  
Ion Ratio Lower Upper  
168 100  
99 48.9 39.1 58.7



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.592 min Scan# 143  
Delta R.T. 0.006 min  
Lab File: VY019162.D  
Acq: 20 Aug 2024 19:42

Tgt Ion: 94 Resp: 149  
Ion Ratio Lower Upper  
94 100  
96 37.6 74.1 111.1#





#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.842 min Scan# 51

Delta R.T. 0.000 min

Lab File: VY019162.D

Acq: 20 Aug 2024 19:42

Instrument :

MSVOA\_Y

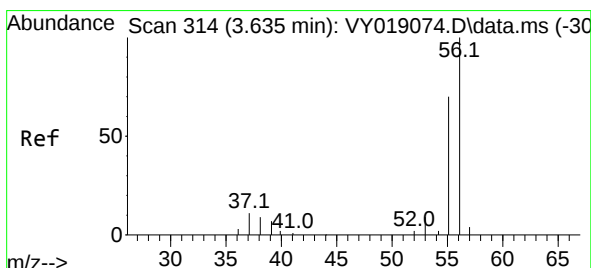
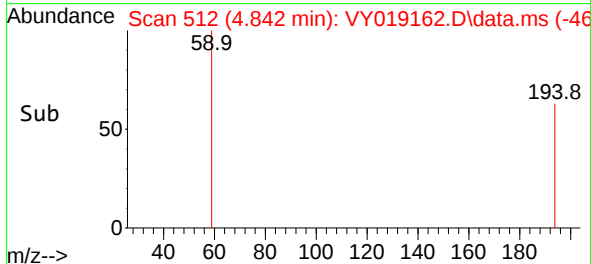
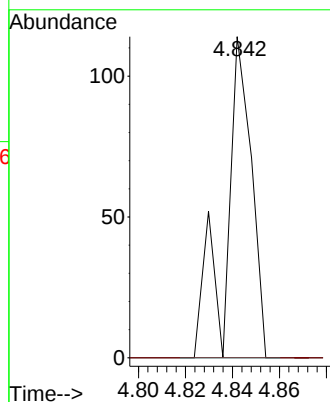
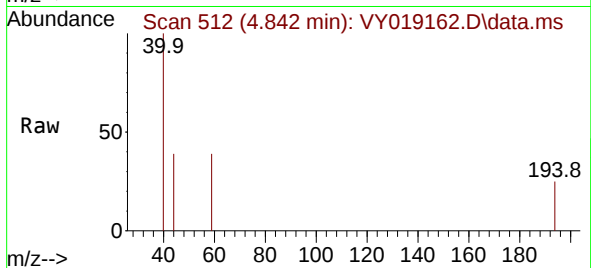
ClientSampleId :

Tgt Ion: 59 Resp: 87

Ion Ratio Lower Upper

59 100

57 0.0 3.0 4.6#



#13

Acrolein

Concen: Below Cal

RT: 3.696 min Scan# 324

Delta R.T. 0.061 min

Lab File: VY019162.D

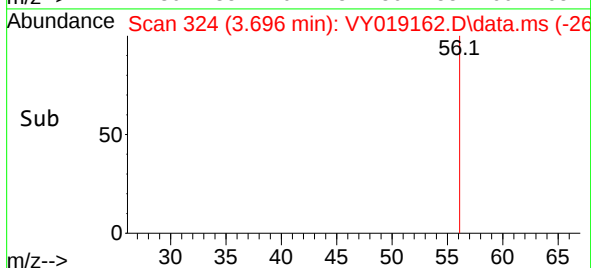
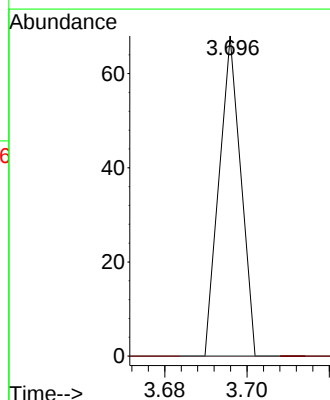
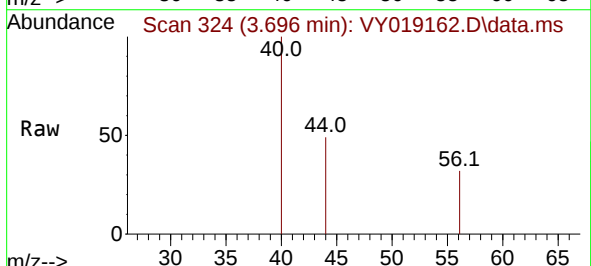
Acq: 20 Aug 2024 19:42

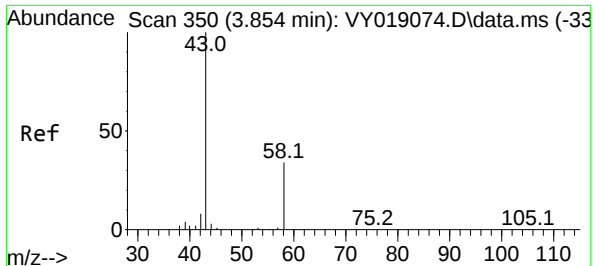
Tgt Ion: 56 Resp: 25

Ion Ratio Lower Upper

56 100

55 0.0 55.7 83.5#

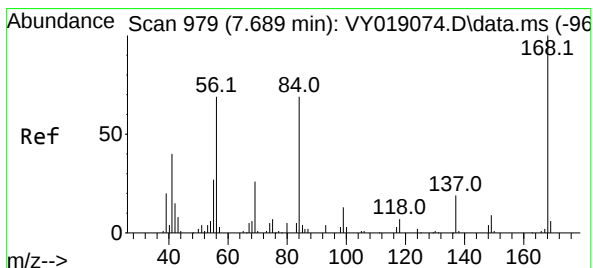
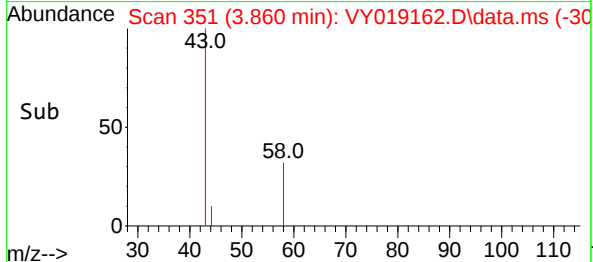
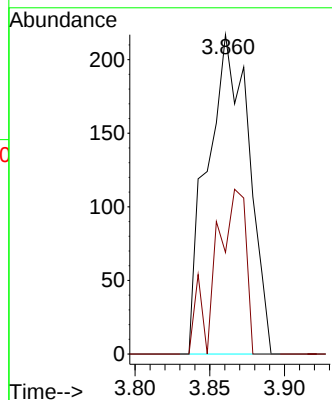
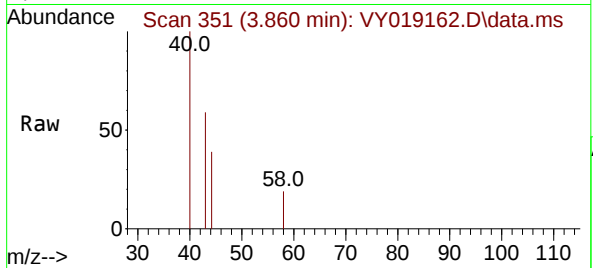




#16  
Acetone  
Concen: 2.872 ug/l  
RT: 3.860 min Scan# 31  
Delta R.T. 0.006 min  
Lab File: VY019162.D  
Acq: 20 Aug 2024 19:42

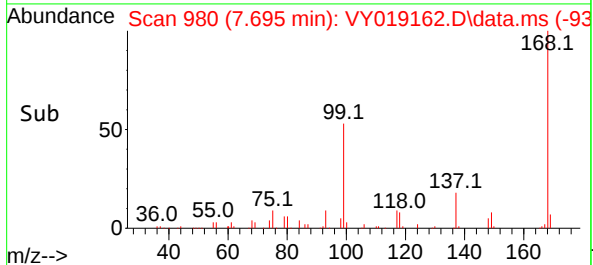
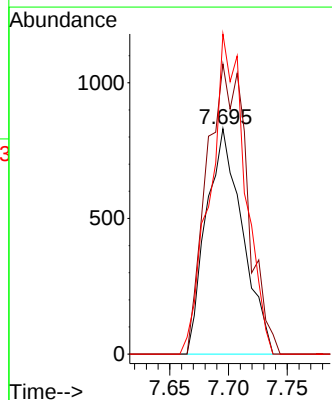
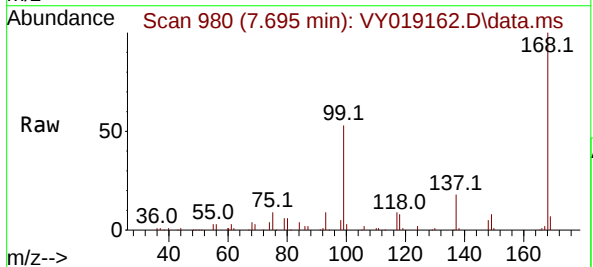
Instrument :  
MSVOA\_Y  
ClientSampleId :

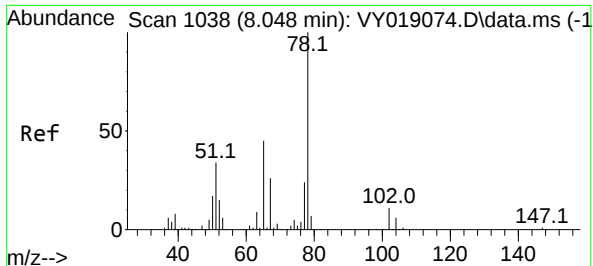
Tgt Ion: 43 Resp: 418  
Ion Ratio Lower Upper  
43 100  
58 31.8 31.7 47.5



#31  
Cyclohexane  
Concen: Below Cal  
RT: 7.695 min Scan# 980  
Delta R.T. 0.006 min  
Lab File: VY019162.D  
Acq: 20 Aug 2024 19:42

Tgt Ion: 56 Resp: 1779  
Ion Ratio Lower Upper  
56 100  
69 128.8 28.7 43.1#  
84 142.0 77.7 116.5#





#33

1,2-Dichloroethane-d4

Concen: 50.139 ug/l

RT: 8.055 min Scan# 1130

Delta R.T. 0.006 min

Lab File: VY019162.D

Acq: 20 Aug 2024 19:42

Instrument :

MSVOA\_Y

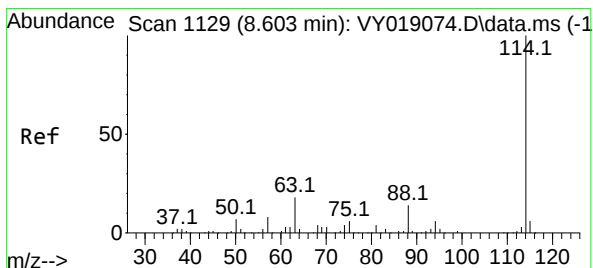
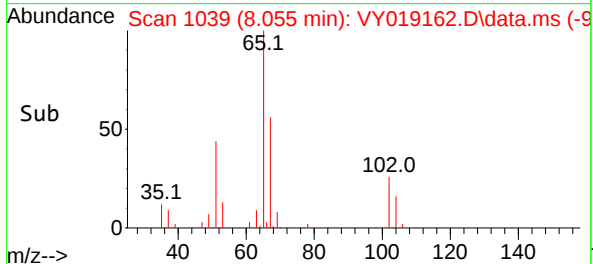
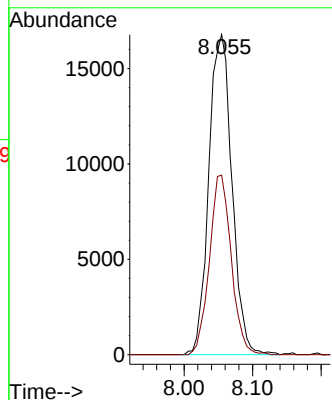
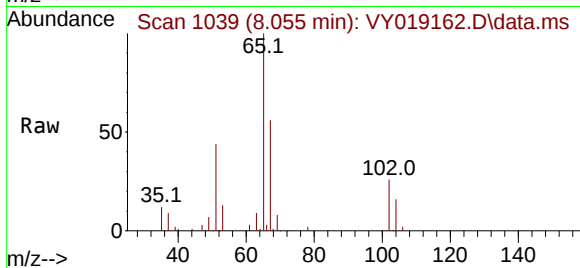
ClientSampleId :

Tgt Ion: 65 Resp: 39350

Ion Ratio Lower Upper

65 100

67 53.0 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: VY019162.D

Acq: 20 Aug 2024 19:42

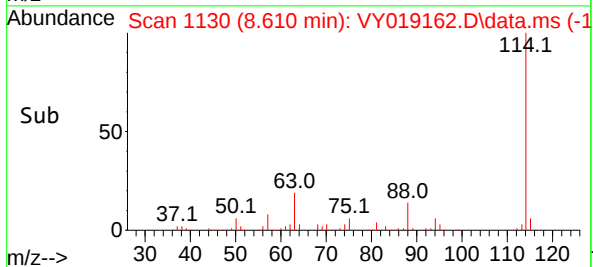
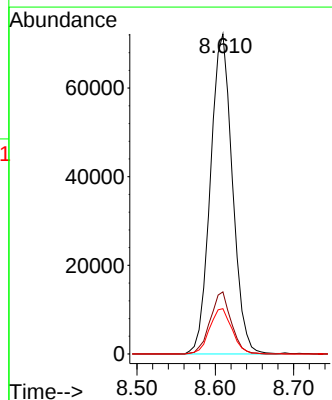
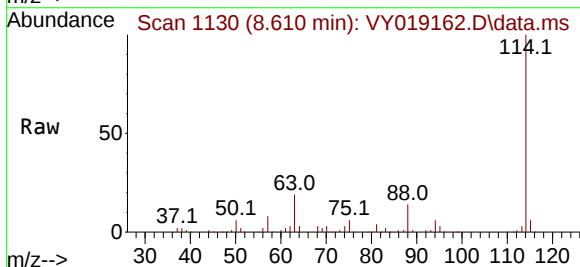
Tgt Ion: 114 Resp: 140713

Ion Ratio Lower Upper

114 100

63 19.4 0.0 35.0

88 14.2 0.0 27.2

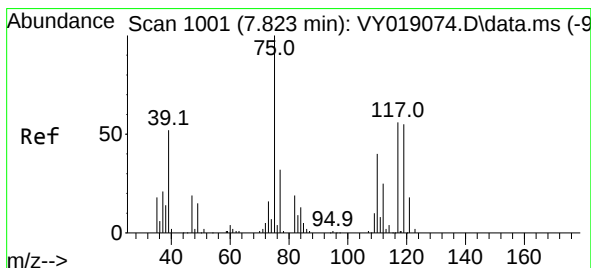
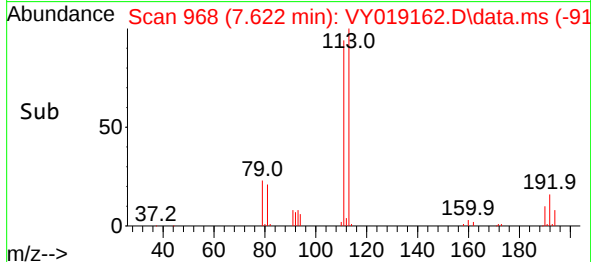
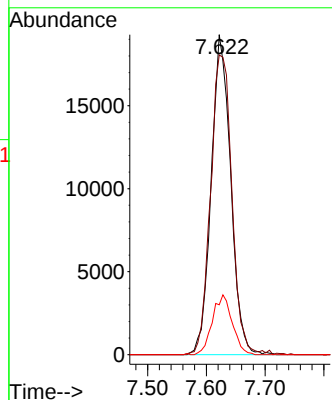
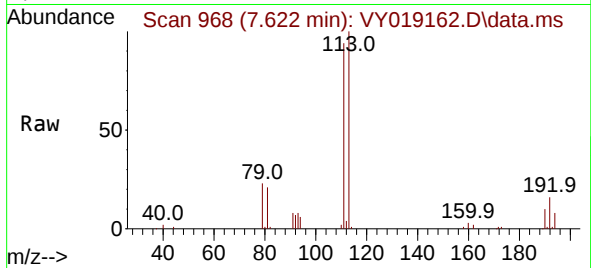




#35  
Dibromofluoromethane  
Concen: 48.314 ug/l  
RT: 7.622 min Scan# 90  
Delta R.T. 0.000 min  
Lab File: VY019162.D  
Acq: 20 Aug 2024 19:42

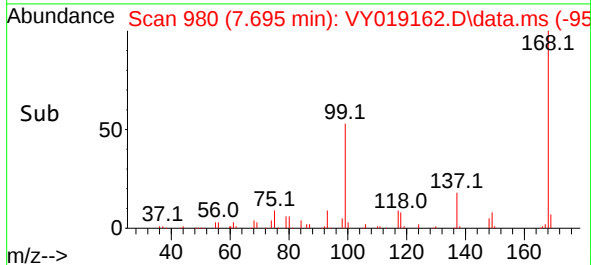
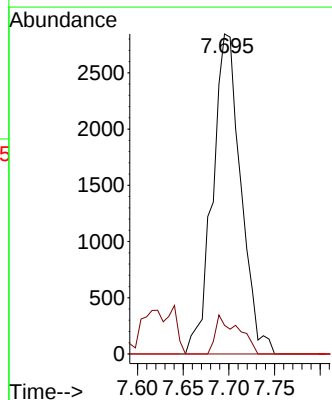
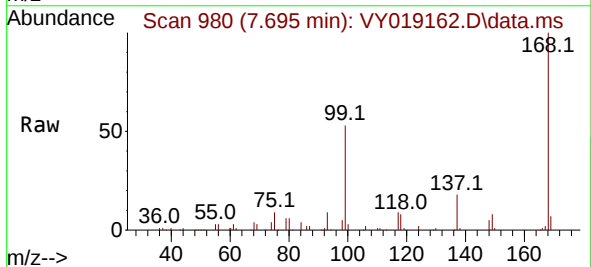
Instrument :  
MSVOA\_Y  
ClientSampleId :

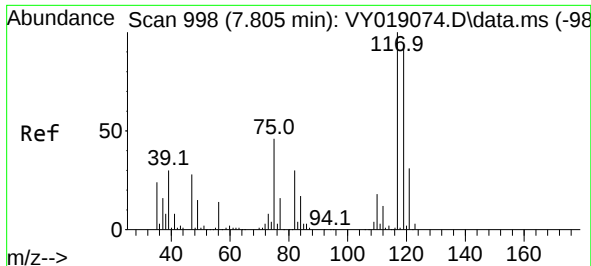
Tgt Ion:113 Resp: 44452  
Ion Ratio Lower Upper  
113 100  
111 101.6 82.2 123.4  
192 19.0 15.9 23.9



#36  
1,1-Dichloropropene  
Concen: 4.856 ug/l  
RT: 7.695 min Scan# 980  
Delta R.T. -0.128 min  
Lab File: VY019162.D  
Acq: 20 Aug 2024 19:42

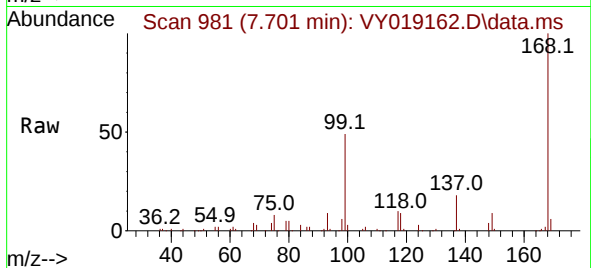
Tgt Ion: 75 Resp: 6135  
Ion Ratio Lower Upper  
75 100  
110 9.9 19.0 57.0#  
77 0.0 25.3 37.9#



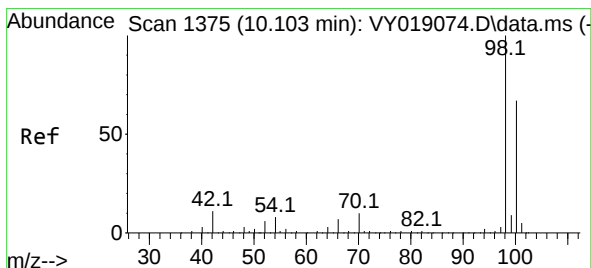
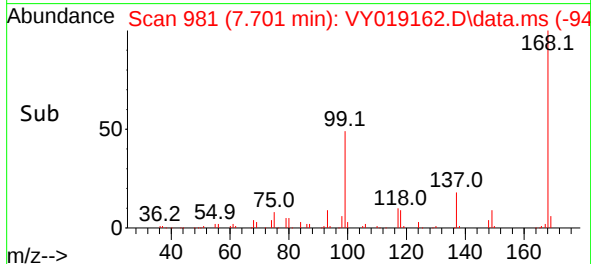
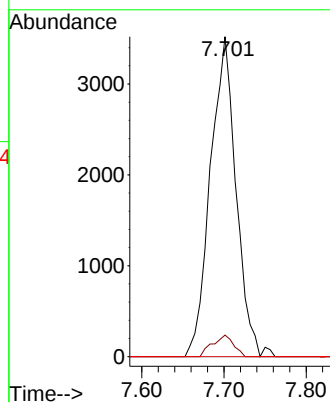


#38  
Carbon Tetrachloride  
Concen: 5.230 ug/l  
RT: 7.701 min Scan# 91  
Delta R.T. -0.103 min  
Lab File: VY019162.D  
Acq: 20 Aug 2024 19:42

Instrument :  
MSVOA\_Y  
ClientSampleId :

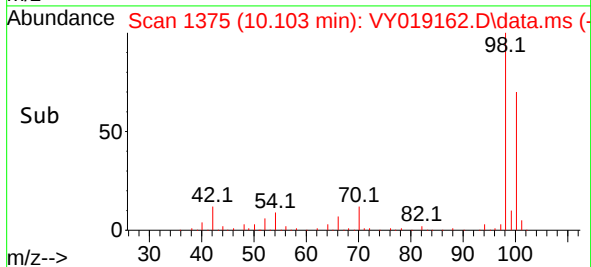
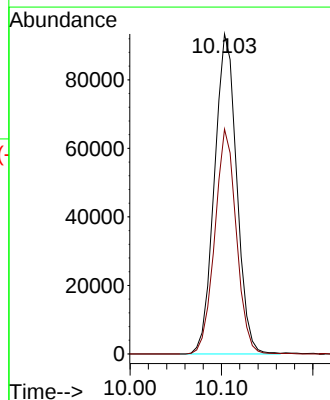
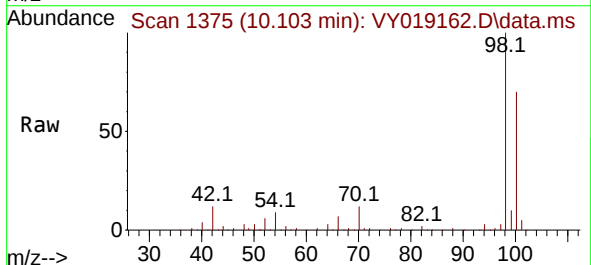


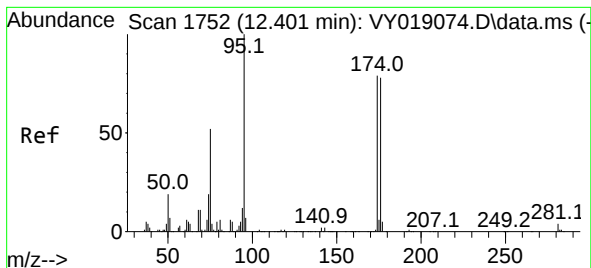
Tgt Ion:117 Resp: 7657  
Ion Ratio Lower Upper  
117 100  
119 6.7 75.8 113.6#  
121 0.0 24.0 36.0#



#50  
Toluene-d8  
Concen: 47.642 ug/l  
RT: 10.103 min Scan# 1375  
Delta R.T. 0.000 min  
Lab File: VY019162.D  
Acq: 20 Aug 2024 19:42

Tgt Ion: 98 Resp: 157741  
Ion Ratio Lower Upper  
98 100  
100 68.0 52.0 78.0

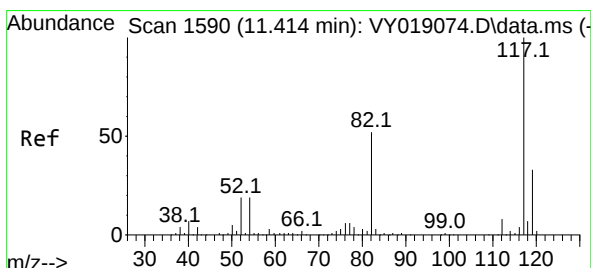
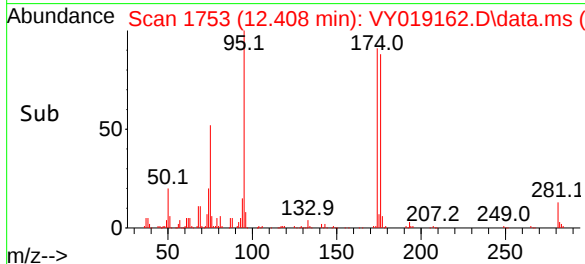
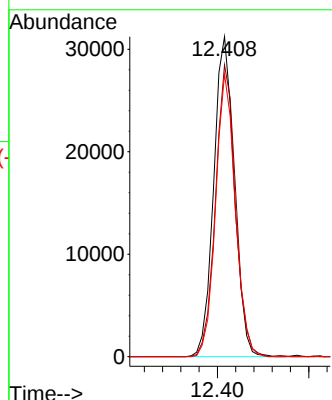
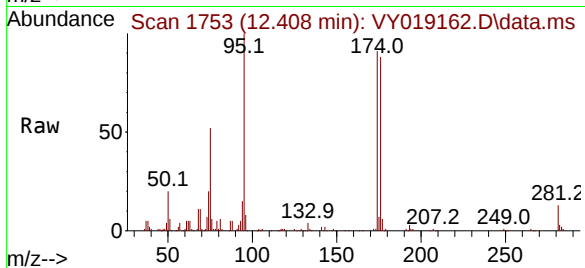




#62  
4-Bromofluorobenzene  
Concen: 42.887 ug/l  
RT: 12.408 min Scan# 1753  
Delta R.T. 0.006 min  
Lab File: VY019162.D  
Acq: 20 Aug 2024 19:42

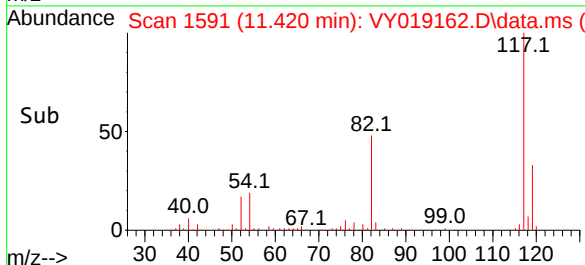
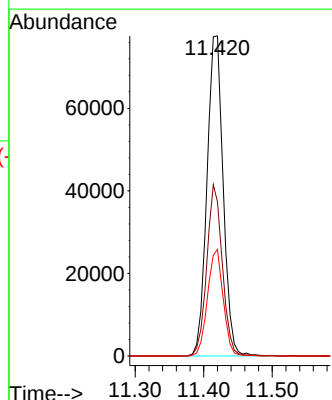
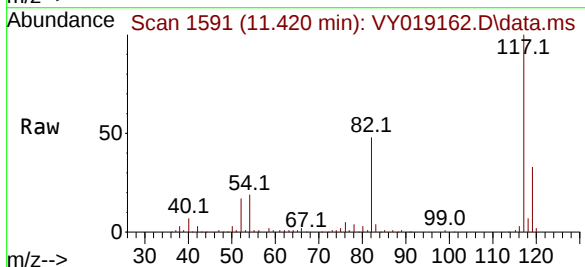
Instrument :  
MSVOA\_Y  
ClientSampleId :

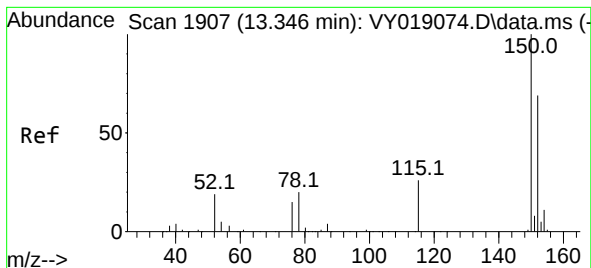
Tgt Ion: 95 Resp: 48407  
Ion Ratio Lower Upper  
95 100  
174 90.3 0.0 175.6  
176 85.0 0.0 171.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.420 min Scan# 1591  
Delta R.T. 0.006 min  
Lab File: VY019162.D  
Acq: 20 Aug 2024 19:42

Tgt Ion: 117 Resp: 127573  
Ion Ratio Lower Upper  
117 100  
82 48.1 42.4 63.6  
119 33.3 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: VY019162.D

Acq: 20 Aug 2024 19:42

Instrument :

MSVOA\_Y

ClientSampleId :

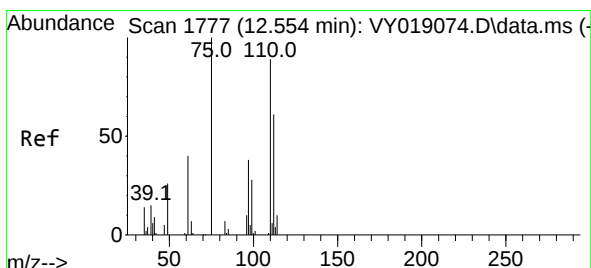
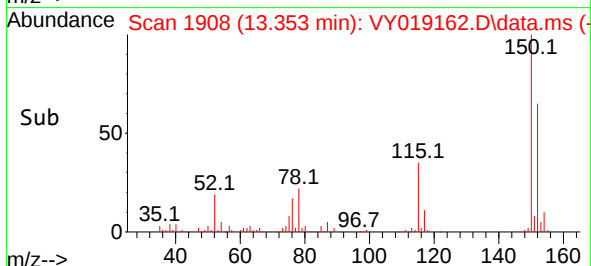
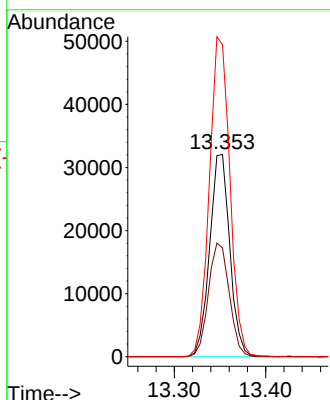
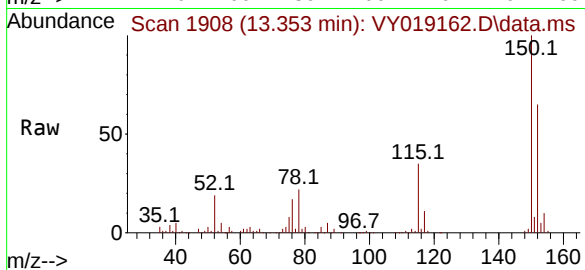
Tgt Ion:152 Resp: 49015

Ion Ratio Lower Upper

152 100

115 58.1 28.2 84.7

150 161.1 0.0 345.6



#76

1,2,3-Trichloropropane

Concen: 54.314 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. -0.146 min

Lab File: VY019162.D

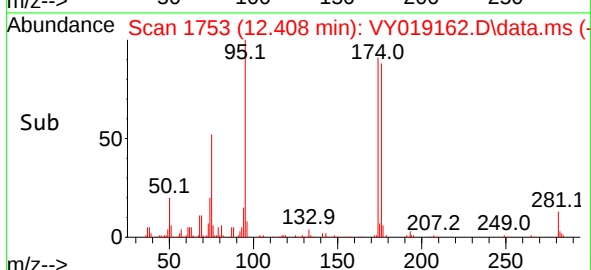
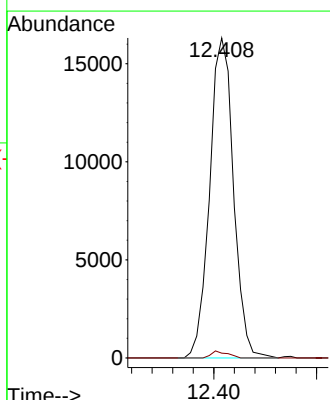
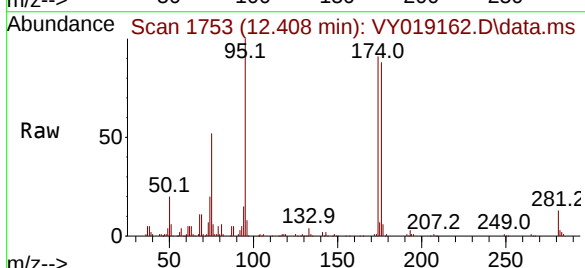
Acq: 20 Aug 2024 19:42

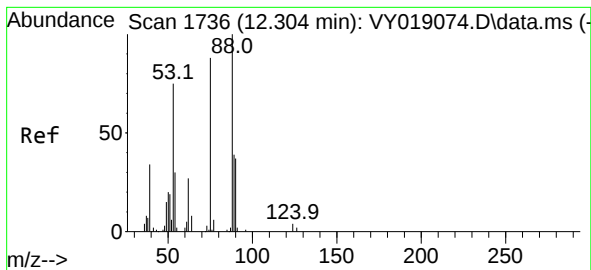
Tgt Ion: 75 Resp: 26254

Ion Ratio Lower Upper

75 100

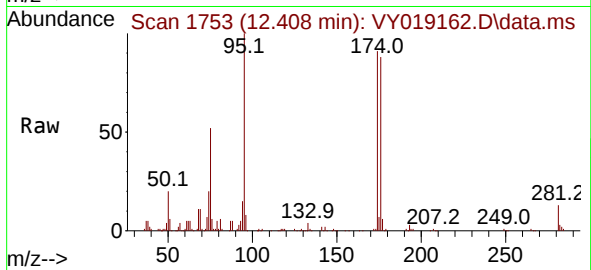
77 1.5 0.0 0.0#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 134.137 ug/l  
 RT: 12.408 min Scan# 11  
 Delta R.T. 0.104 min  
 Lab File: VY019162.D  
 Acq: 20 Aug 2024 19:42

Instrument :  
 MSVOA\_Y  
 ClientSampleId :



| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 75      | 100   |       |        |
| 53      | 0.0   | 66.8  | 100.2# |
| 89      | 0.2   | 35.8  | 53.6#  |

