

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY082224\  
 Data File : VY019227.D  
 Acq On : 22 Aug 2024 17:58  
 Operator : SY/MD  
 Sample : P3671-09  
 Misc : 3.72g/5.0mL/MSVOA\_Y/SOIL/B  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Aug 23 01:55:58 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

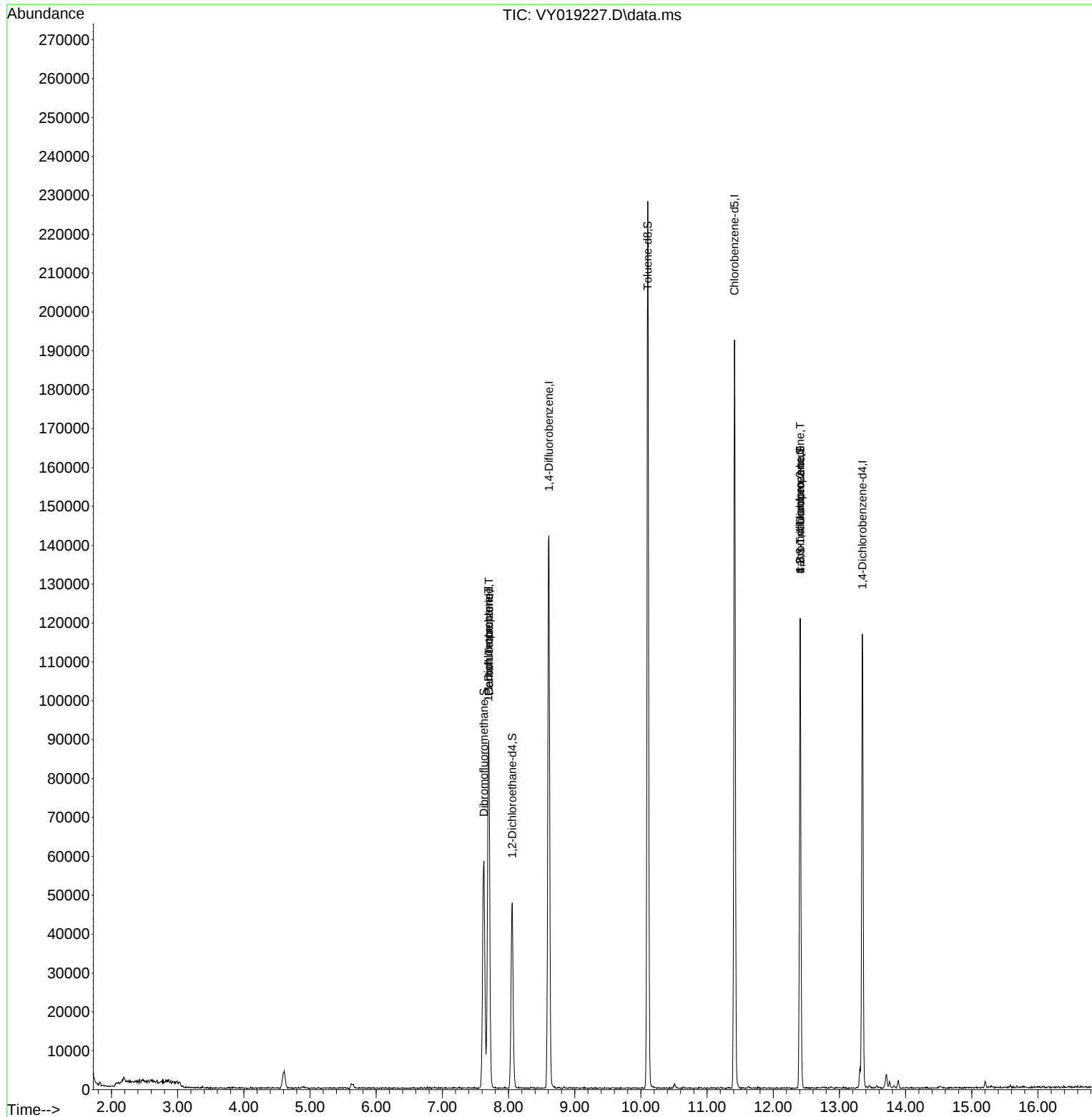
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 7.701  | 168   | 73034    | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.609  | 114   | 126240   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.414 | 117   | 104719   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.346 | 152   | 28585    | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.055  | 65    | 35774    | 48.864    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | =      | 97.720%  |
| 35) Dibromofluoromethane      | 7.628  | 113   | 41849    | 50.700    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | =      | 101.400% |
| 50) Toluene-d8                | 10.103 | 98    | 144580   | 48.673    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 134 | Recovery  | =      | 97.340%  |
| 62) 4-Bromofluorobenzene      | 12.408 | 95    | 34457    | 34.028    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 29 - 146 | Recovery  | =      | 68.060%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 5) Bromomethane               | 2.617  | 94    | 95       | Below Cal |        | 88       |
| 6) Chloroethane               | 2.848  | 64    | 29       | Below Cal | #      | 42       |
| 11) Tert butyl alcohol        | 4.860  | 59    | 65       | Below Cal | #      | 88       |
| 20) Methylene Chloride        | 4.610  | 84    | 3073     | Below Cal | #      | 90       |
| 31) Cyclohexane               | 7.689  | 56    | 1563     | Below Cal | #      | 66       |
| 36) 1,1-Dichloropropene       | 7.695  | 75    | 5553     | 4.899     | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 7.701  | 117   | 7202     | 5.483     | ug/l # | 15       |
| 76) 1,2,3-Trichloropropane    | 12.408 | 75    | 19092    | 67.726    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.408 | 75    | 19092    | 167.261   | ug/l # | 16       |
| -----                         |        |       |          |           |        |          |

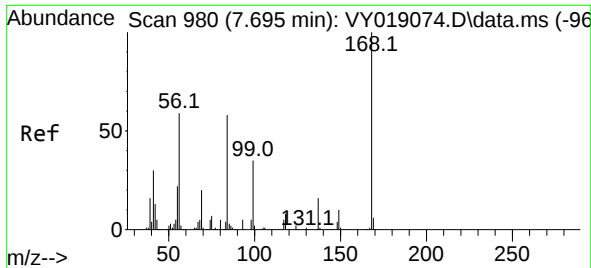
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_Y  
ClientSampleId :

Quant Time: Aug 23 01:55:58 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

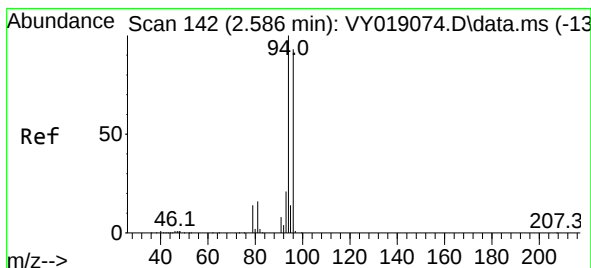
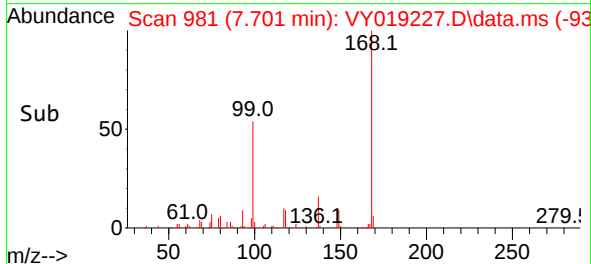
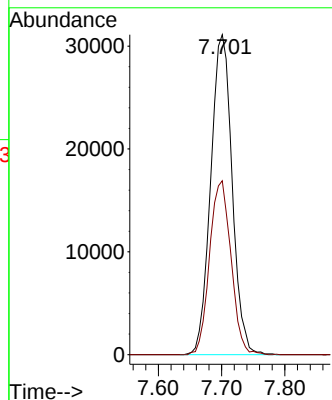
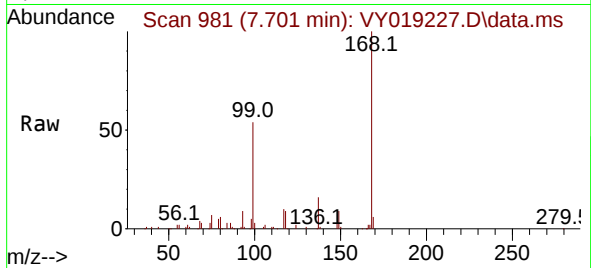




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.701 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY019227.D  
Acq: 22 Aug 2024 17:58

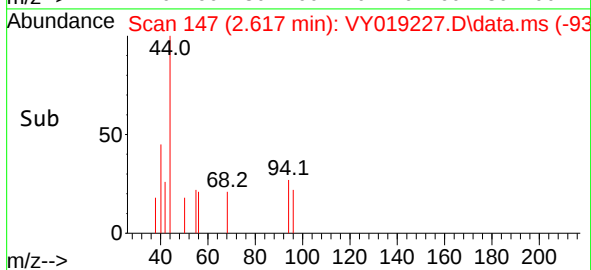
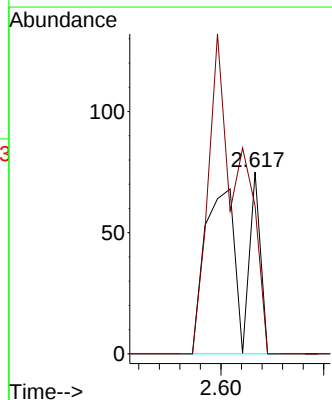
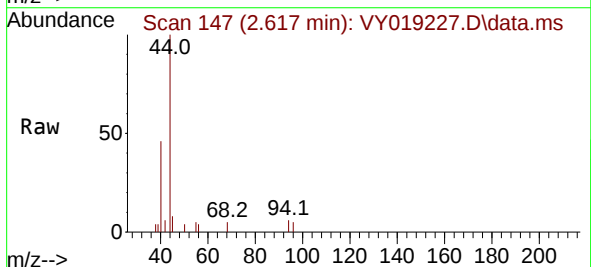
Instrument :  
MSVOA\_Y  
ClientSampleId :

Tgt Ion:168 Resp: 73034  
Ion Ratio Lower Upper  
168 100  
99 54.4 39.1 58.7



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.617 min Scan# 147  
Delta R.T. 0.031 min  
Lab File: VY019227.D  
Acq: 22 Aug 2024 17:58

Tgt Ion: 94 Resp: 95  
Ion Ratio Lower Upper  
94 100  
96 81.3 74.1 111.1





#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.860 min Scan# 51

Delta R.T. 0.018 min

Lab File: VY019227.D

Acq: 22 Aug 2024 17:58

Instrument :

MSVOA\_Y

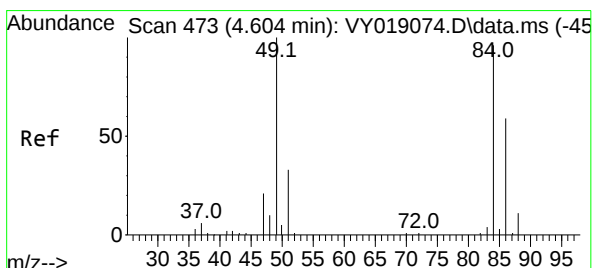
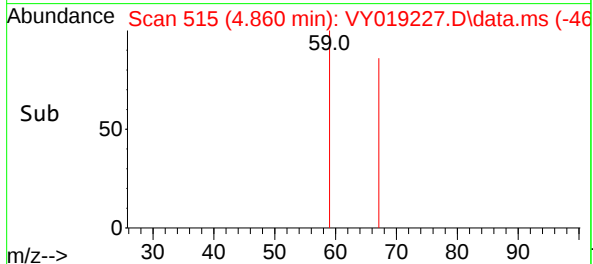
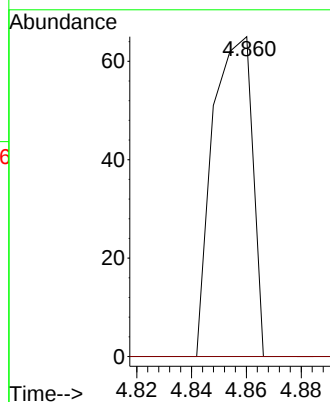
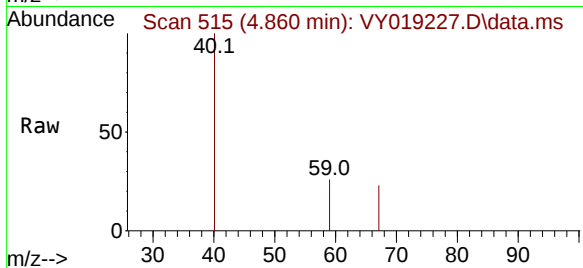
ClientSampleId :

Tgt Ion: 59 Resp: 65

Ion Ratio Lower Upper

59 100

57 0.0 3.0 4.6#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.610 min Scan# 474

Delta R.T. 0.006 min

Lab File: VY019227.D

Acq: 22 Aug 2024 17:58

Tgt Ion: 84 Resp: 3073

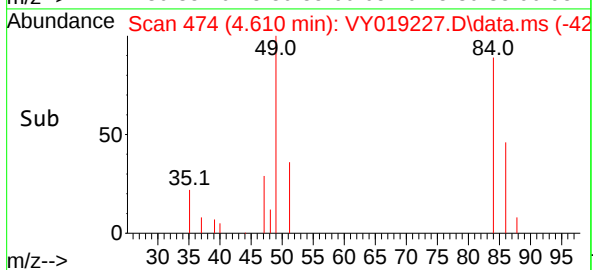
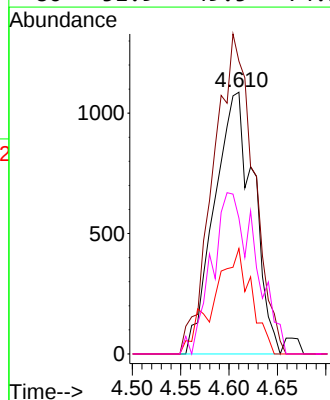
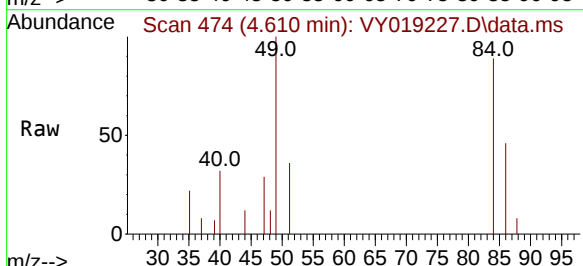
Ion Ratio Lower Upper

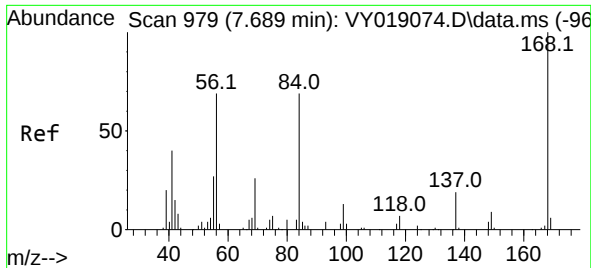
84 100

49 111.9 84.4 126.6

51 40.3 26.0 39.0#

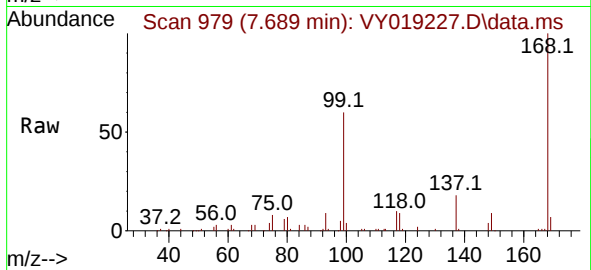
86 51.9 49.5 74.3



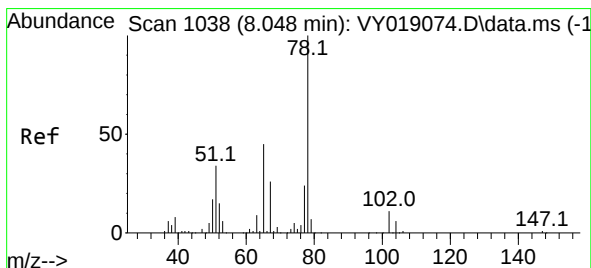
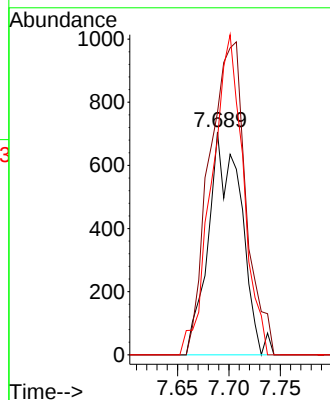
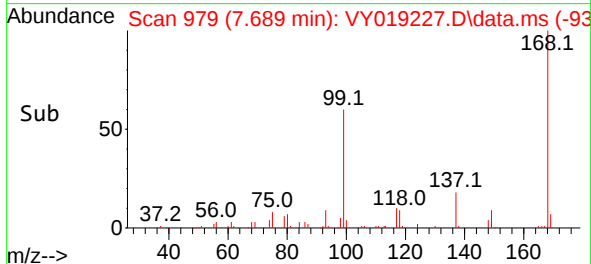


#31  
Cyclohexane  
Concen: Below Cal  
RT: 7.689 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY019227.D  
Acq: 22 Aug 2024 17:58

Instrument :  
MSVOA\_Y  
ClientSampleId :

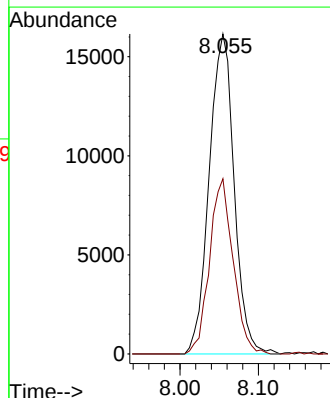
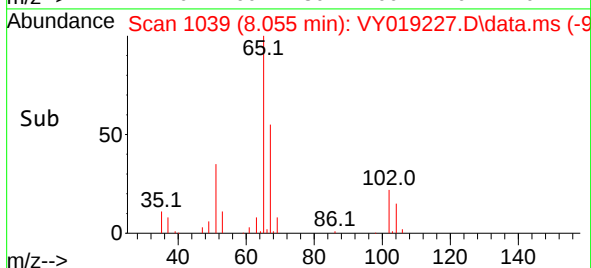
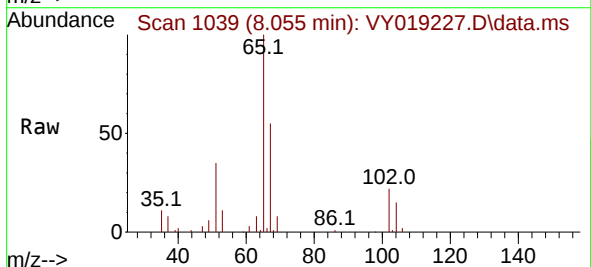


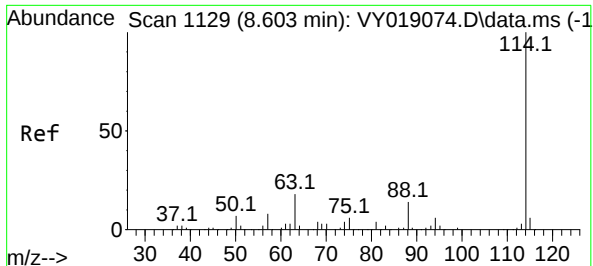
Tgt Ion: 56 Resp: 1563  
Ion Ratio Lower Upper  
56 100  
69 108.6 28.7 43.1#  
84 96.6 77.7 116.5



#33  
1,2-Dichloroethane-d4  
Concen: 48.864 ug/l  
RT: 8.055 min Scan# 1039  
Delta R.T. 0.006 min  
Lab File: VY019227.D  
Acq: 22 Aug 2024 17:58

Tgt Ion: 65 Resp: 35774  
Ion Ratio Lower Upper  
65 100  
67 51.8 0.0 109.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.609 min Scan# 1129

Delta R.T. 0.006 min

Lab File: VY019227.D

Acq: 22 Aug 2024 17:58

Instrument :

MSVOA\_Y

ClientSampleId :

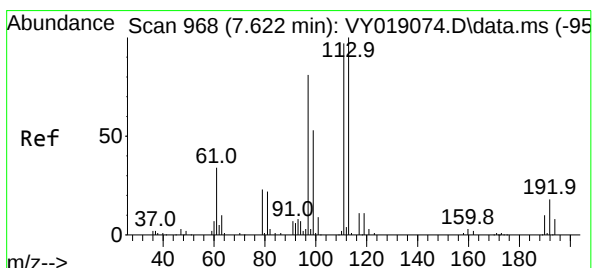
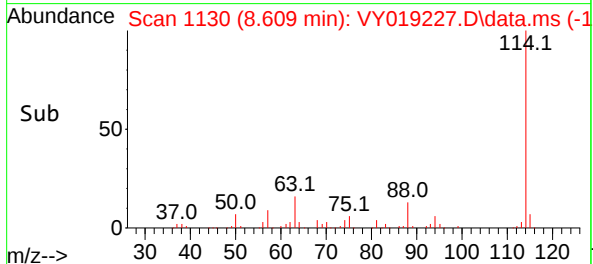
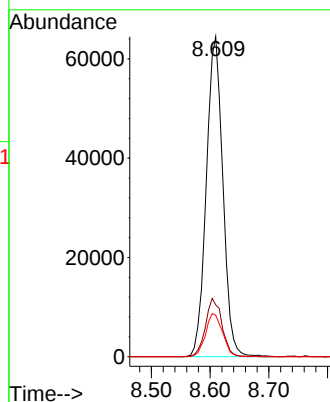
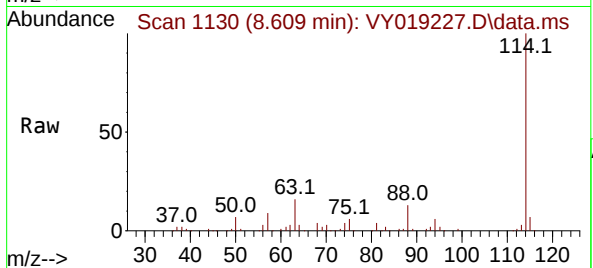
Tgt Ion:114 Resp: 126240

Ion Ratio Lower Upper

114 100

63 16.2 0.0 35.0

88 12.9 0.0 27.2



#35

Dibromofluoromethane

Concen: 50.700 ug/l

RT: 7.628 min Scan# 969

Delta R.T. 0.006 min

Lab File: VY019227.D

Acq: 22 Aug 2024 17:58

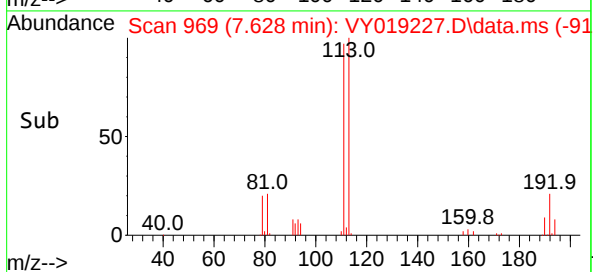
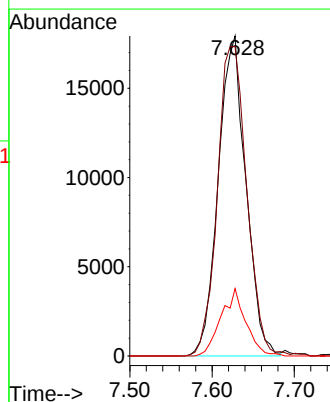
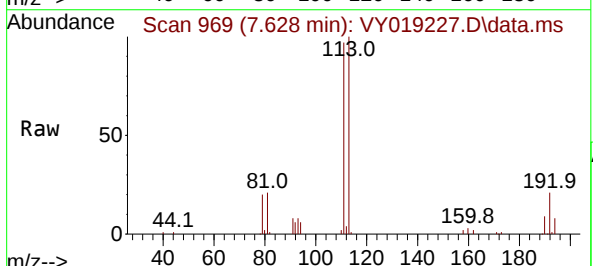
Tgt Ion:113 Resp: 41849

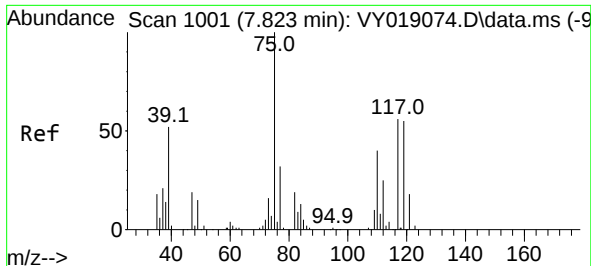
Ion Ratio Lower Upper

113 100

111 103.0 82.2 123.4

192 19.0 15.9 23.9





#36

1,1-Dichloropropene

Concen: 4.899 ug/l

RT: 7.695 min Scan# 91

Delta R.T. -0.128 min

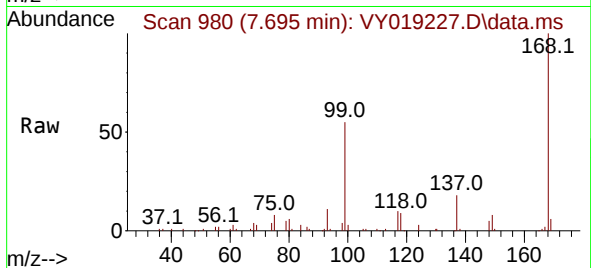
Lab File: VY019227.D

Acq: 22 Aug 2024 17:58

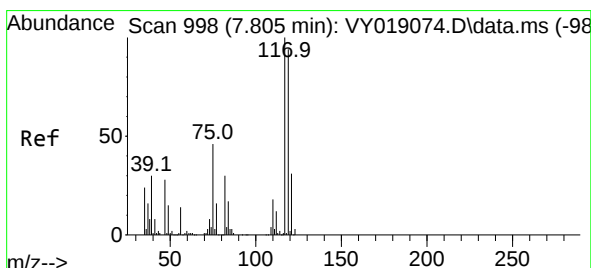
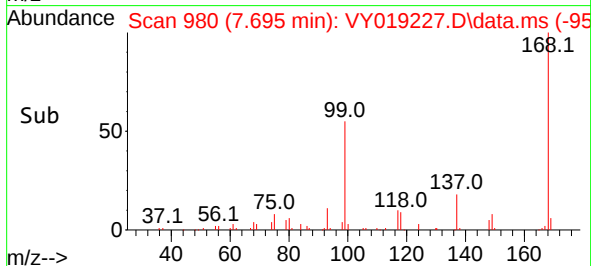
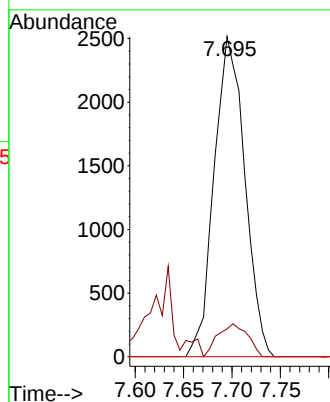
Instrument :

MSVOA\_Y

ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 5553  |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 10.0  | 19.0  | 57.0# |
| 77       | 0.0   | 25.3  | 37.9# |



#38

Carbon Tetrachloride

Concen: 5.483 ug/l

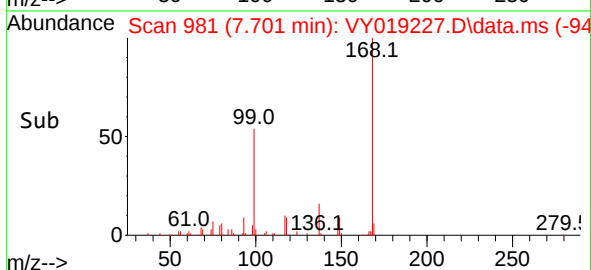
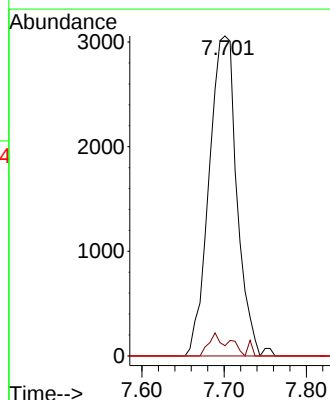
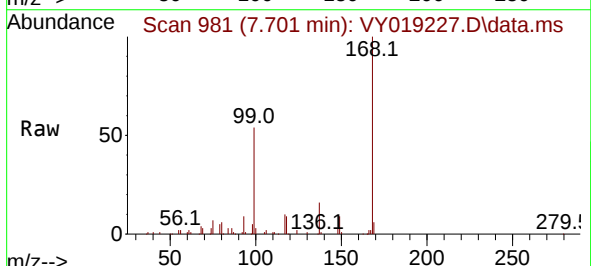
RT: 7.701 min Scan# 981

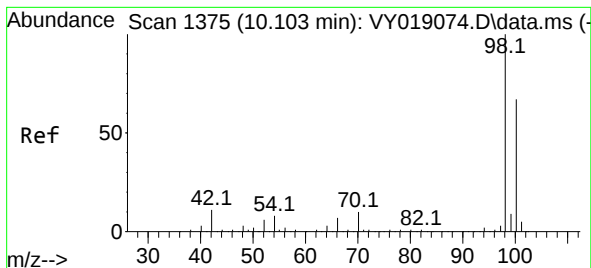
Delta R.T. -0.103 min

Lab File: VY019227.D

Acq: 22 Aug 2024 17:58

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 7202   |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 3.2   | 75.8  | 113.6# |
| 121      | 0.0   | 24.0  | 36.0#  |





#50

Toluene-d8

Concen: 48.673 ug/l

RT: 10.103 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY019227.D

Acq: 22 Aug 2024 17:58

Instrument :

MSVOA\_Y

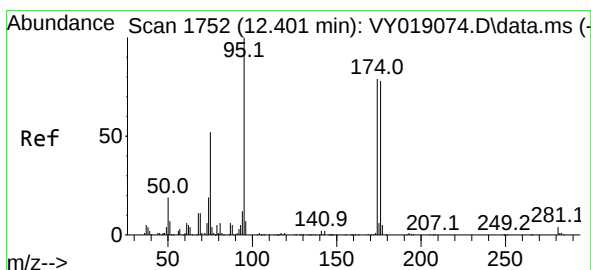
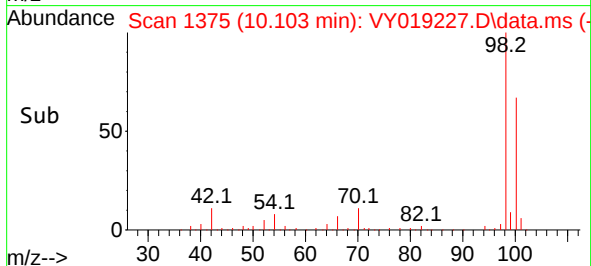
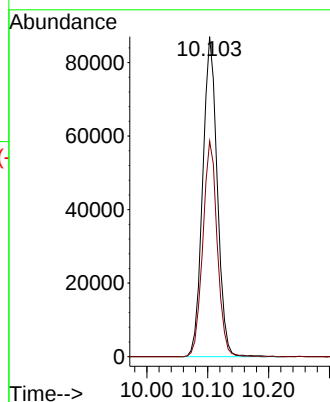
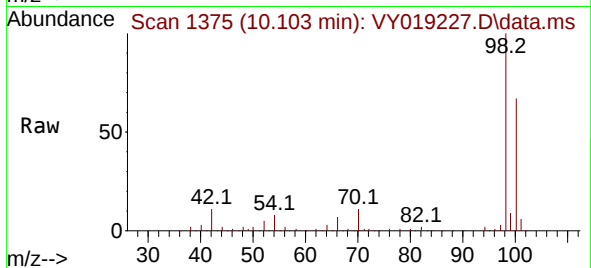
ClientSampleId :

Tgt Ion: 98 Resp: 144580

Ion Ratio Lower Upper

98 100

100 66.7 52.0 78.0



#62

4-Bromofluorobenzene

Concen: 34.028 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. 0.006 min

Lab File: VY019227.D

Acq: 22 Aug 2024 17:58

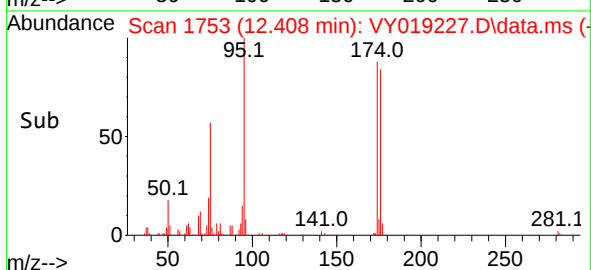
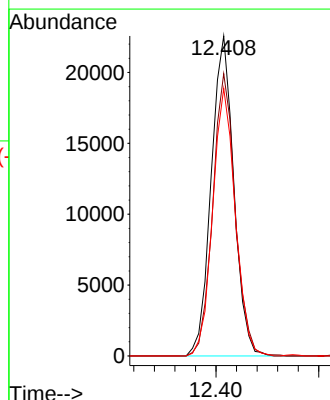
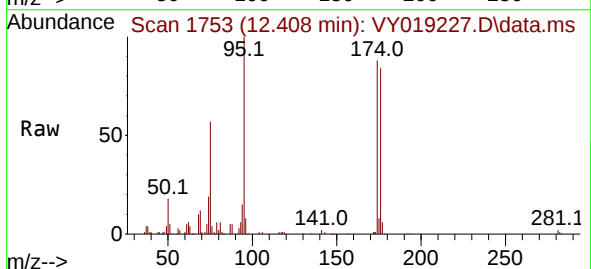
Tgt Ion: 95 Resp: 34457

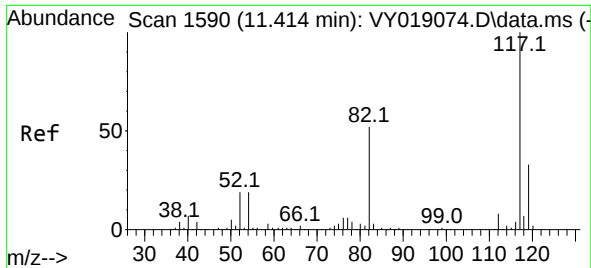
Ion Ratio Lower Upper

95 100

174 87.3 0.0 175.6

176 83.8 0.0 171.4

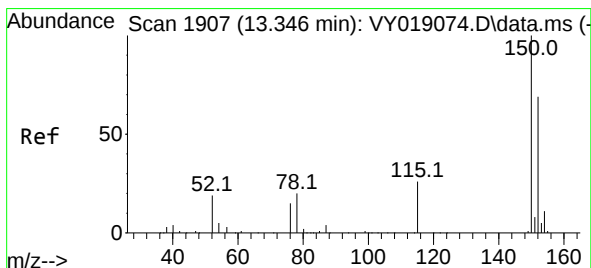
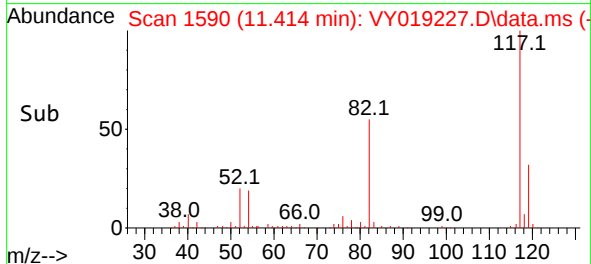
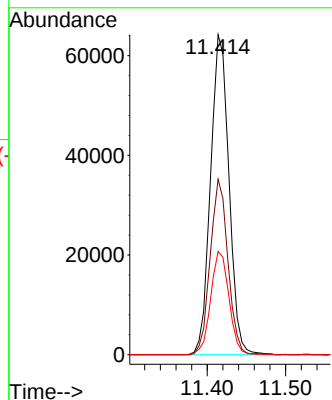
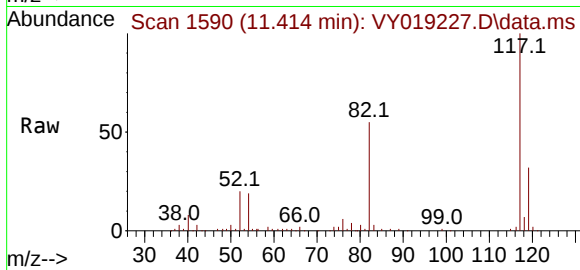




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.414 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VY019227.D  
Acq: 22 Aug 2024 17:58

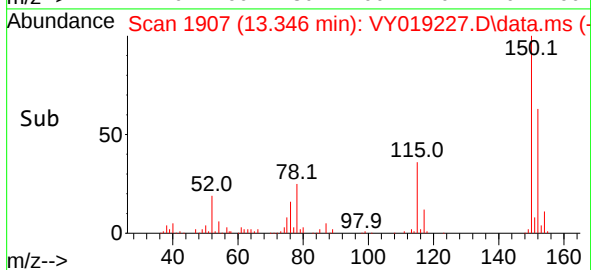
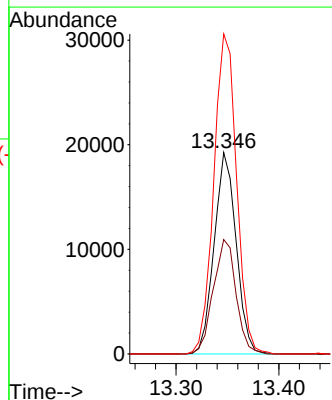
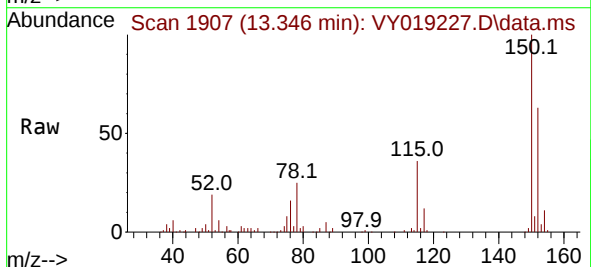
Instrument :  
MSVOA\_Y  
ClientSampleId :

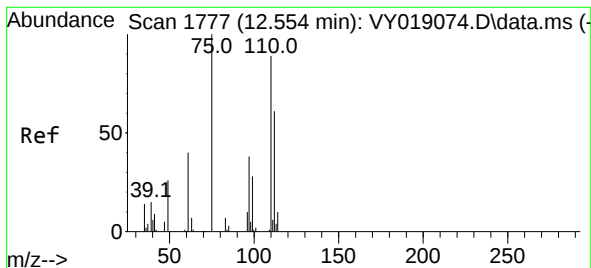
Tgt Ion:117 Resp: 104719  
Ion Ratio Lower Upper  
117 100  
82 54.8 42.4 63.6  
119 32.3 25.9 38.9



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.346 min Scan# 1907  
Delta R.T. 0.000 min  
Lab File: VY019227.D  
Acq: 22 Aug 2024 17:58

Tgt Ion:152 Resp: 28585  
Ion Ratio Lower Upper  
152 100  
115 58.8 28.2 84.7  
150 164.6 0.0 345.6





#76

1,2,3-Trichloropropane

Concen: 67.726 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. -0.146 min

Lab File: VY019227.D

Acq: 22 Aug 2024 17:58

Instrument :

MSVOA\_Y

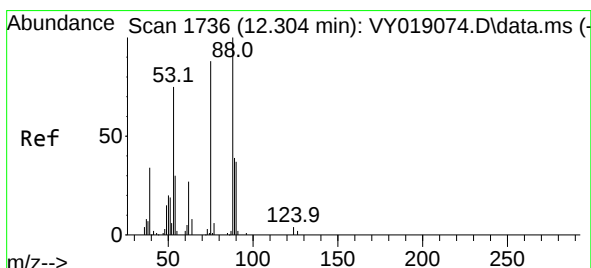
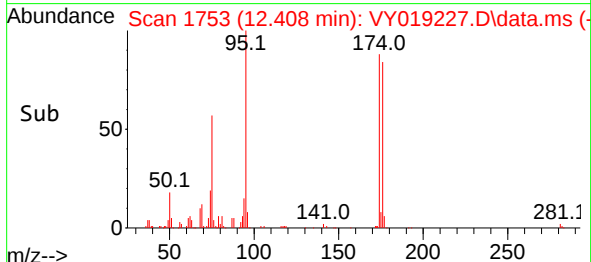
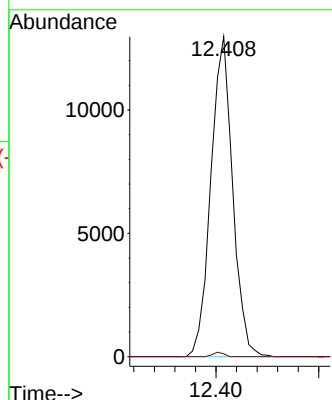
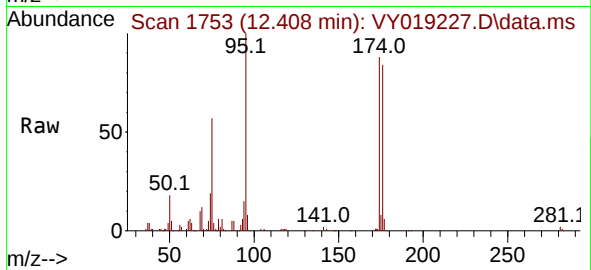
ClientSampleId :

Tgt Ion: 75 Resp: 19092

Ion Ratio Lower Upper

75 100

77 0.7 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 167.261 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. 0.104 min

Lab File: VY019227.D

Acq: 22 Aug 2024 17:58

Tgt Ion: 75 Resp: 19092

Ion Ratio Lower Upper

75 100

53 0.0 66.8 100.2#

89 0.0 35.8 53.6#

