

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY082124\  
 Data File : VY019201.D  
 Acq On : 22 Aug 2024 05:45  
 Operator : SY/MD  
 Sample : P3671-07  
 Misc : 7.85g/5.0mL/MSVOA\_Y/SOIL/A  
 ALS Vial : 43 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Aug 22 06:30:28 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

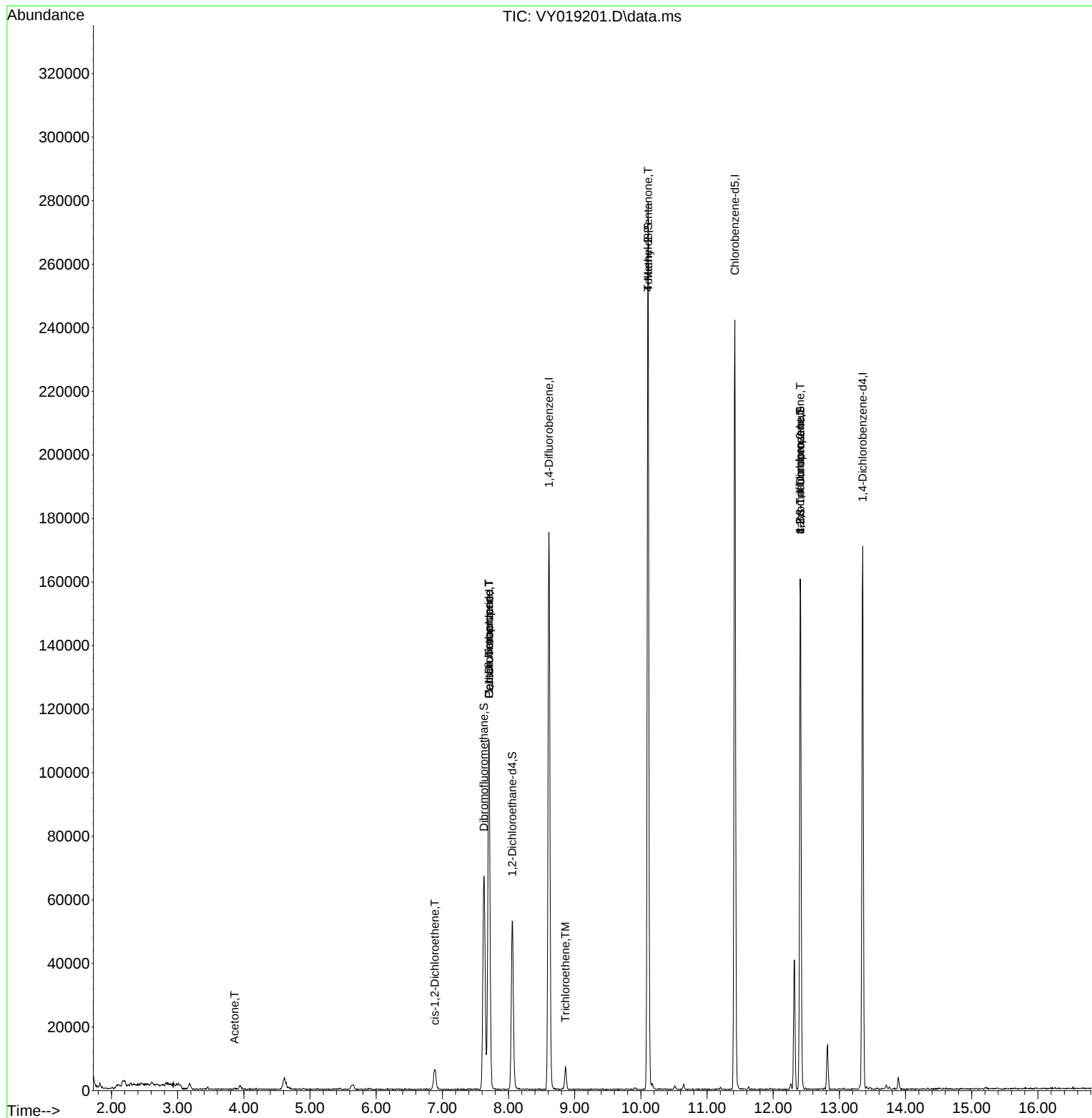
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 7.707  | 168   | 87636    | 50.000    | ug/l   | 0.01     |
| 34) 1,4-Difluorobenzene       | 8.610  | 114   | 155335   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.420 | 117   | 130117   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.353 | 152   | 42664    | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.055  | 65    | 41334    | 47.052    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | =      | 94.100%  |
| 35) Dibromofluoromethane      | 7.628  | 113   | 48375    | 47.629    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | =      | 95.260%  |
| 50) Toluene-d8                | 10.109 | 98    | 174767   | 47.815    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 134 | Recovery  | =      | 95.640%  |
| 62) 4-Bromofluorobenzene      | 12.408 | 95    | 48915    | 39.258    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 29 - 146 | Recovery  | =      | 78.520%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 5) Bromomethane               | 2.604  | 94    | 258      | Below Cal |        | 98       |
| 6) Chloroethane               | 2.739  | 64    | 22       | Below Cal | #      | 1        |
| 11) Tert butyl alcohol        | 4.860  | 59    | 19       | Below Cal | #      | 88       |
| 13) Acrolein                  | 3.482  | 56    | 20       | Below Cal | #      | 15       |
| 16) Acetone                   | 3.860  | 43    | 166      | 1.019     | ug/l # | 1        |
| 20) Methylene Chloride        | 4.616  | 84    | 2720     | Below Cal |        | 97       |
| 27) cis-1,2-Dichloroethene    | 6.884  | 96    | 3850     | 3.350     | ug/l   | 96       |
| 31) Cyclohexane               | 7.701  | 56    | 1866     | Below Cal | #      | 40       |
| 36) 1,1-Dichloropropene       | 7.701  | 75    | 6140     | 4.402     | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 7.707  | 117   | 9046     | 5.597     | ug/l # | 16       |
| 44) Trichloroethene           | 8.859  | 130   | 2333     | 1.955     | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone      | 10.109 | 43    | 761      | 1.147     | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.408 | 75    | 26138    | 62.123    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.408 | 75    | 26138    | 153.424   | ug/l # | 16       |
| -----                         |        |       |          |           |        |          |

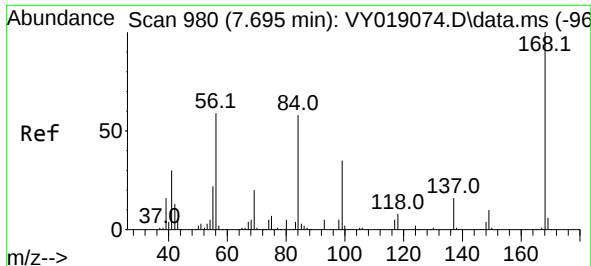
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY082124\  
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Quant Time: Aug 22 06:30:28 2024  
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Quant Title : SW846 8260  
QLast Update : Fri Aug 16 05:10:30 2024  
Response via : Initial Calibration

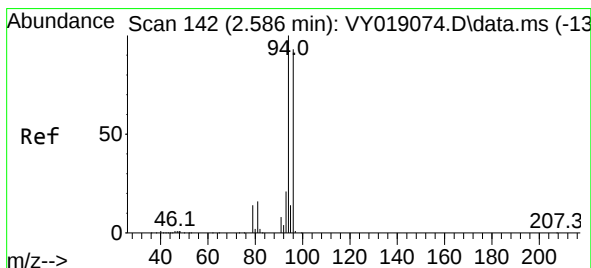
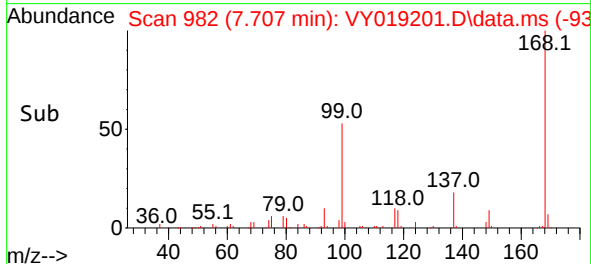
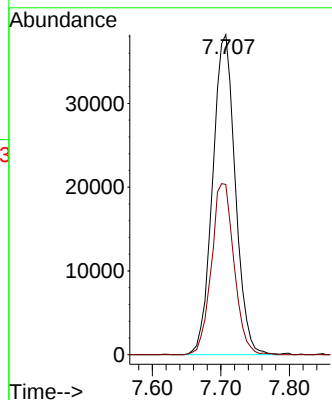
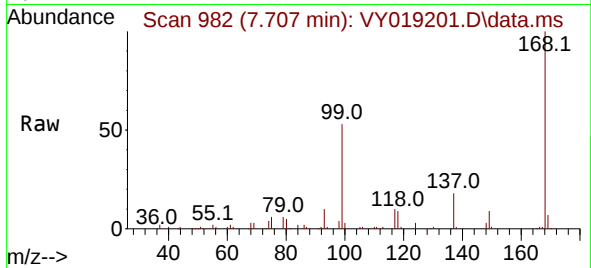




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.707 min Scan# 91  
Delta R.T. 0.012 min  
Lab File: VY019201.D  
Acq: 22 Aug 2024 05:45

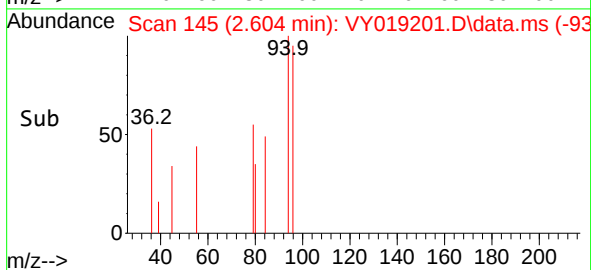
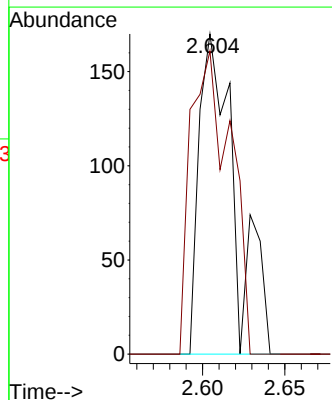
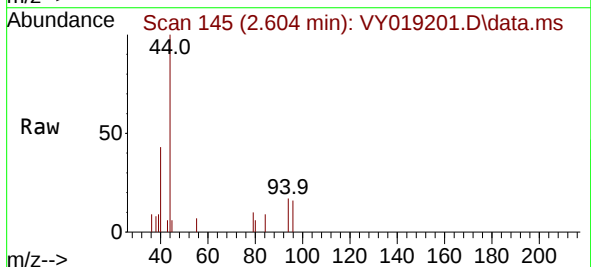
Instrument :  
MSVOA\_Y  
ClientSampleId :

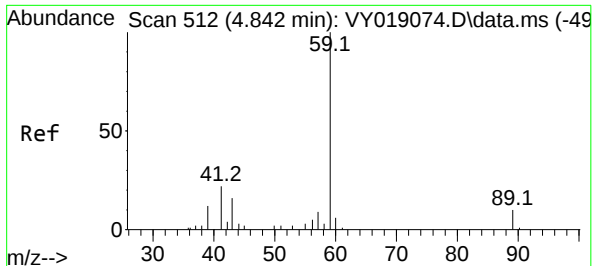
Tgt Ion:168 Resp: 87636  
Ion Ratio Lower Upper  
168 100  
99 53.2 39.1 58.7



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.604 min Scan# 145  
Delta R.T. 0.018 min  
Lab File: VY019201.D  
Acq: 22 Aug 2024 05:45

Tgt Ion: 94 Resp: 258  
Ion Ratio Lower Upper  
94 100  
96 94.7 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: VY019201.D

Acq: 22 Aug 2024 05:45

Instrument :

MSVOA\_Y

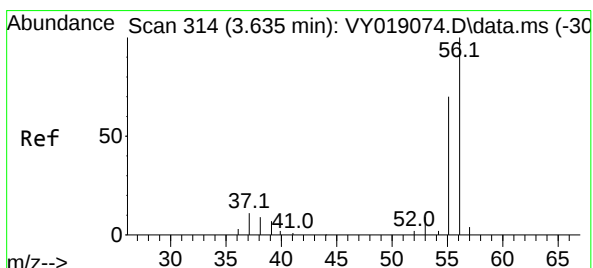
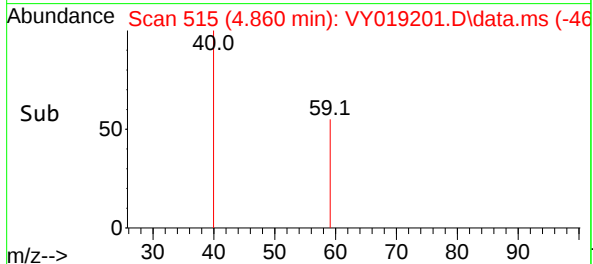
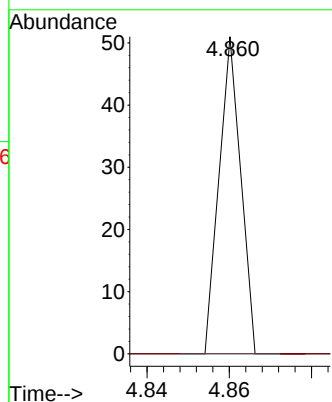
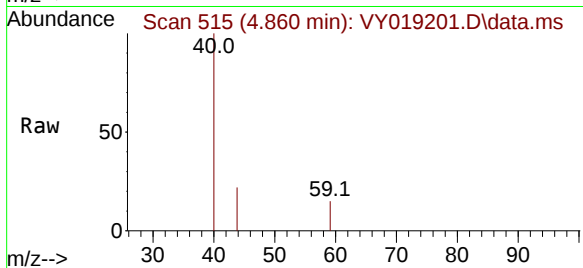
ClientSampleId :

Tgt Ion: 59 Resp: 19

Ion Ratio Lower Upper

59 100

57 0.0 3.0 4.6#



#13

Acrolein

Concen: Below Cal

RT: 3.482 min Scan# 289

Delta R.T. -0.153 min

Lab File: VY019201.D

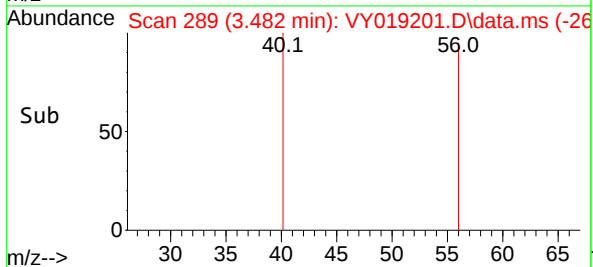
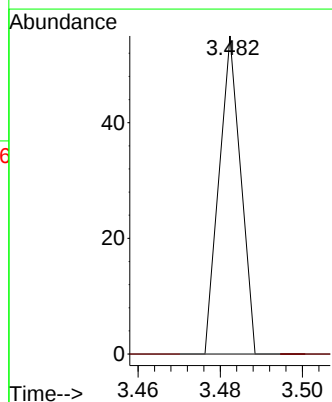
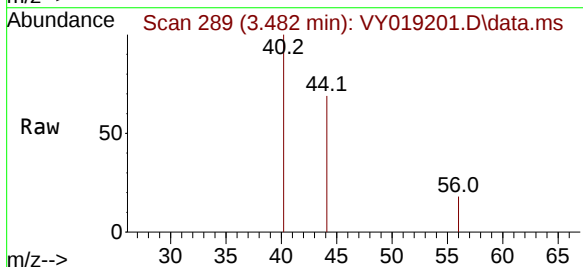
Acq: 22 Aug 2024 05:45

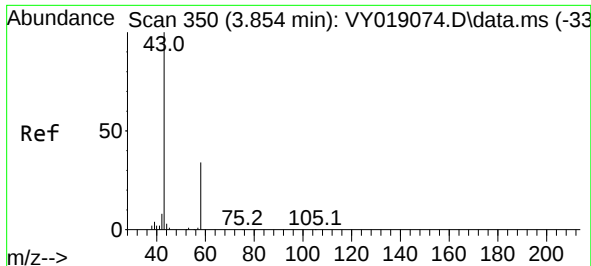
Tgt Ion: 56 Resp: 20

Ion Ratio Lower Upper

56 100

55 0.0 55.7 83.5#

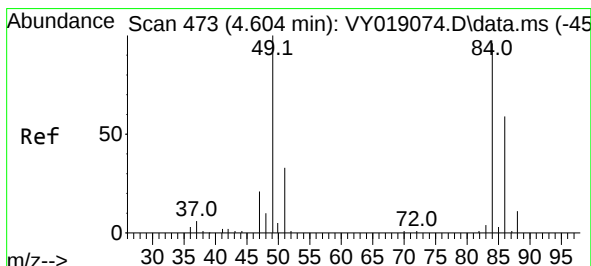
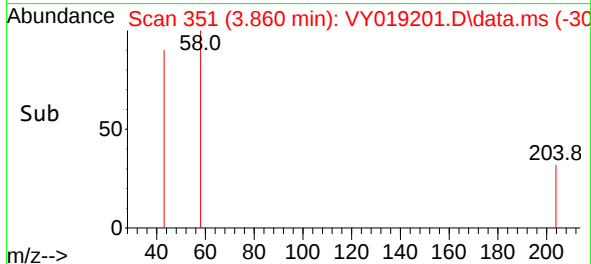
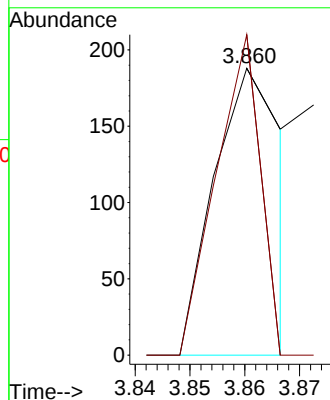
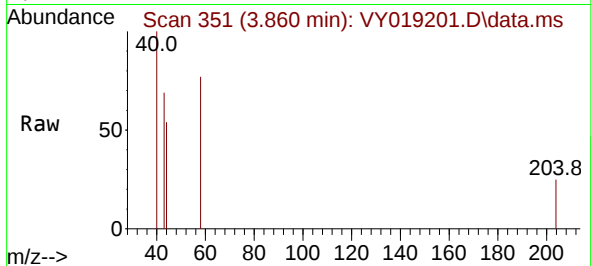




#16  
Acetone  
Concen: 1.019 ug/l  
RT: 3.860 min Scan# 31  
Delta R.T. 0.006 min  
Lab File: VY019201.D  
Acq: 22 Aug 2024 05:45

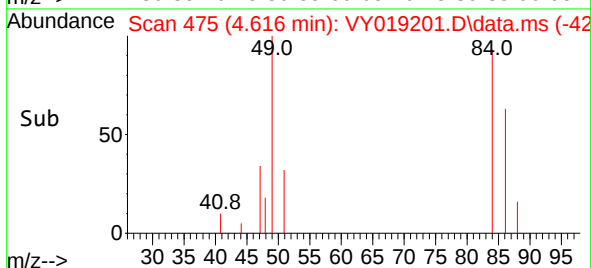
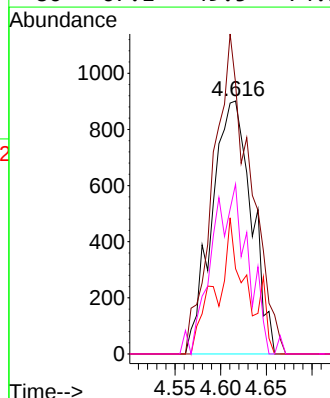
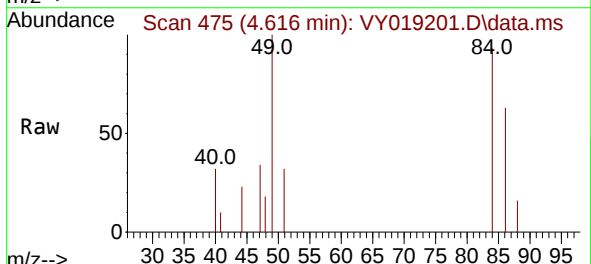
Instrument :  
MSVOA\_Y  
ClientSampleId :

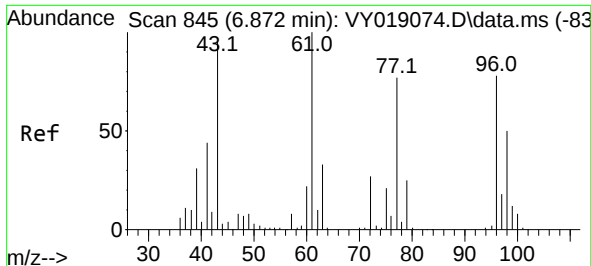
Tgt Ion: 43 Resp: 166  
Ion Ratio Lower Upper  
43 100  
58 111.7 31.7 47.5#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.616 min Scan# 475  
Delta R.T. 0.012 min  
Lab File: VY019201.D  
Acq: 22 Aug 2024 05:45

Tgt Ion: 84 Resp: 2720  
Ion Ratio Lower Upper  
84 100  
49 107.1 84.4 126.6  
51 33.7 26.0 39.0  
86 67.1 49.5 74.3





#27

cis-1,2-Dichloroethene

Concen: 3.350 ug/l

RT: 6.884 min Scan# 845

Delta R.T. 0.012 min

Lab File: VY019201.D

Acq: 22 Aug 2024 05:45

Instrument :

MSVOA\_Y

ClientSampleId :

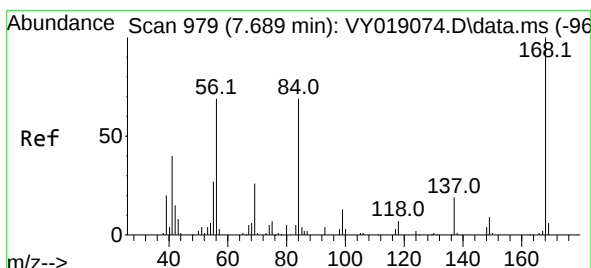
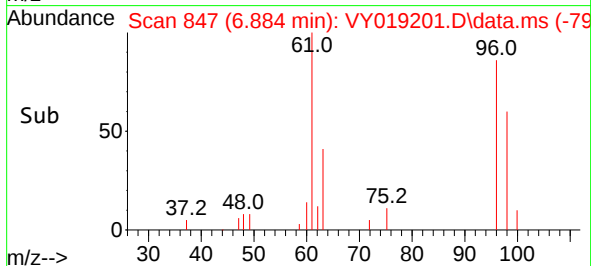
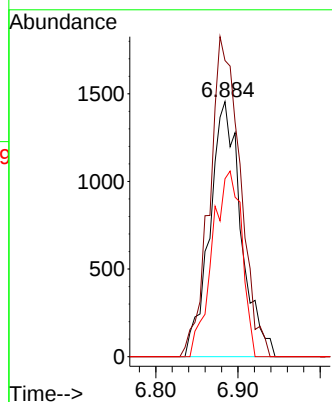
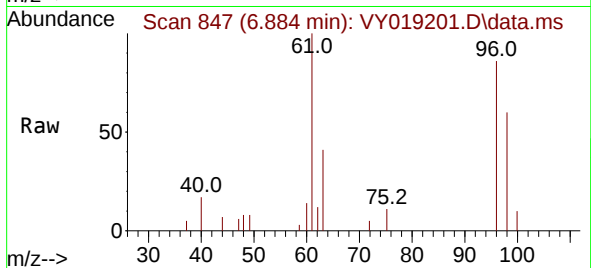
Tgt Ion: 96 Resp: 3850

Ion Ratio Lower Upper

96 100

61 123.2 0.0 256.2

98 68.6 0.0 130.0



#31

Cyclohexane

Concen: Below Cal

RT: 7.701 min Scan# 981

Delta R.T. 0.012 min

Lab File: VY019201.D

Acq: 22 Aug 2024 05:45

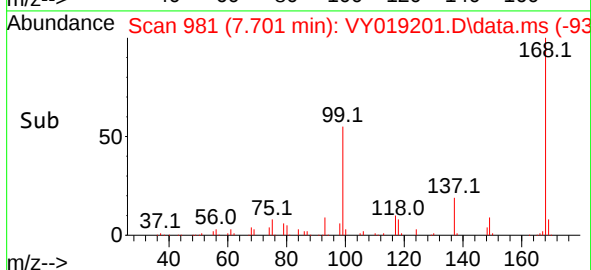
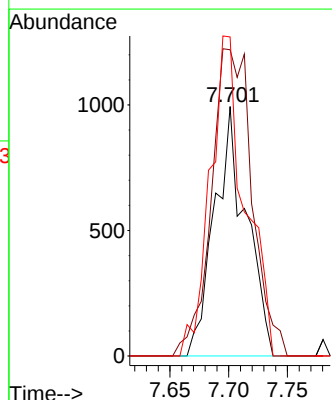
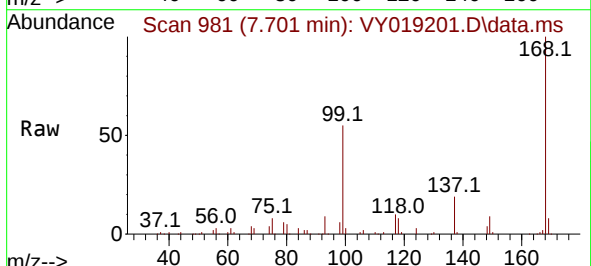
Tgt Ion: 56 Resp: 1866

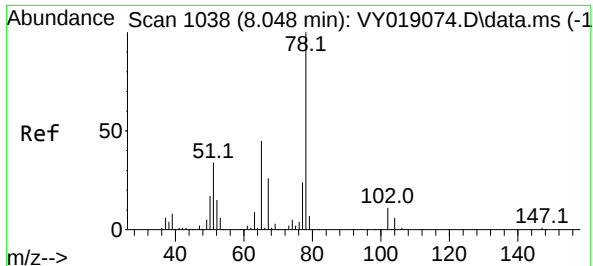
Ion Ratio Lower Upper

56 100

69 117.5 28.7 43.1#

84 127.9 77.7 116.5#





#33

1,2-Dichloroethane-d4

Concen: 47.052 ug/l

RT: 8.055 min Scan# 1130

Delta R.T. 0.006 min

Lab File: VY019201.D

Acq: 22 Aug 2024 05:45

Instrument :

MSVOA\_Y

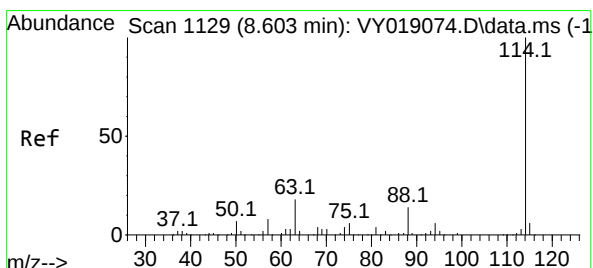
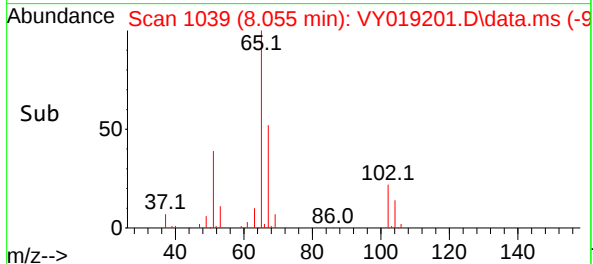
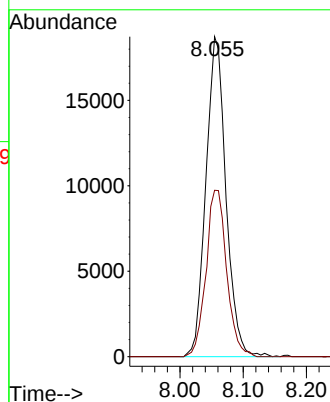
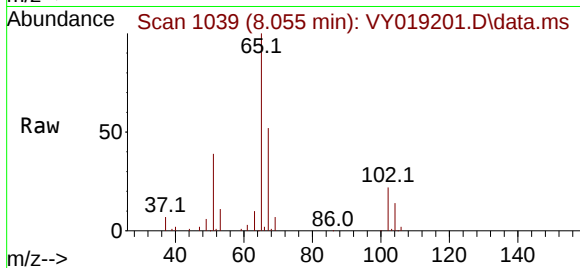
ClientSampleId :

Tgt Ion: 65 Resp: 41334

Ion Ratio Lower Upper

65 100

67 53.6 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: VY019201.D

Acq: 22 Aug 2024 05:45

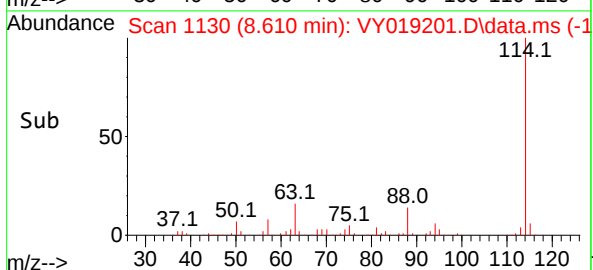
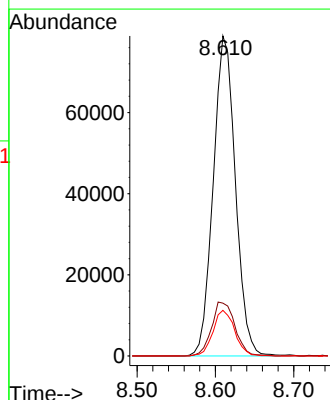
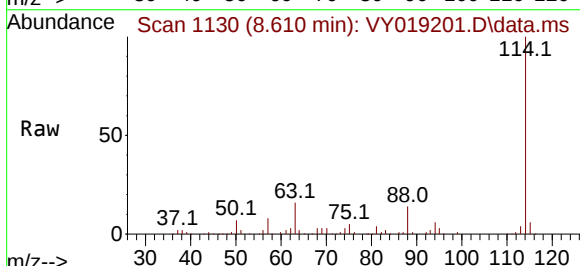
Tgt Ion: 114 Resp: 155335

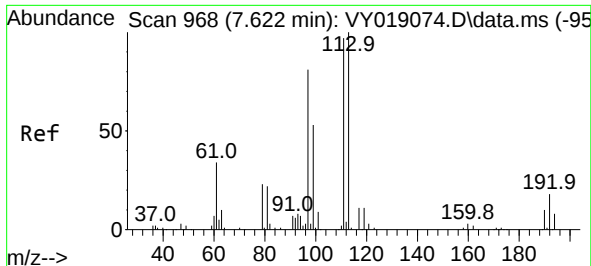
Ion Ratio Lower Upper

114 100

63 16.5 0.0 35.0

88 14.3 0.0 27.2

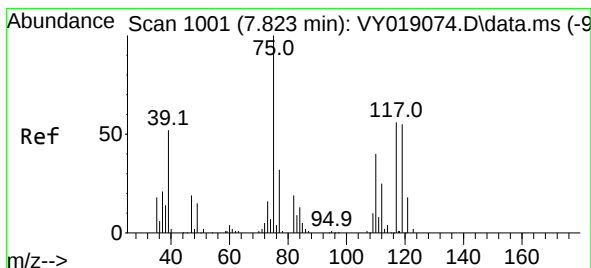
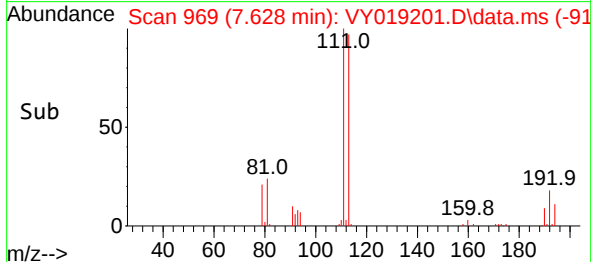
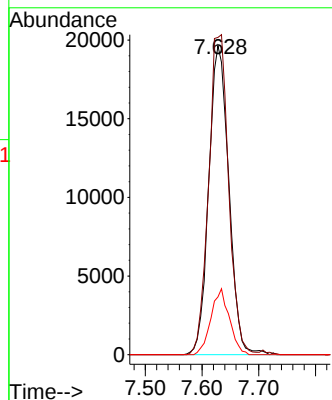
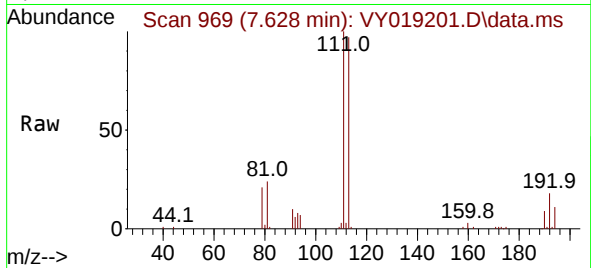




#35  
 Dibromofluoromethane  
 Concen: 47.629 ug/l  
 RT: 7.628 min Scan# 90  
 Delta R.T. 0.006 min  
 Lab File: VY019201.D  
 Acq: 22 Aug 2024 05:45

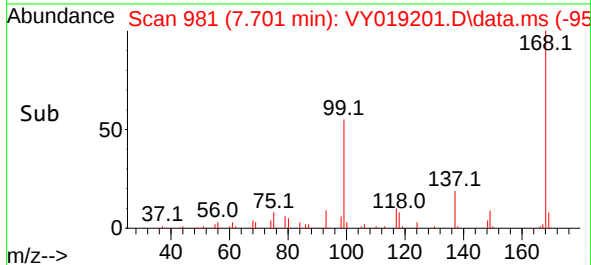
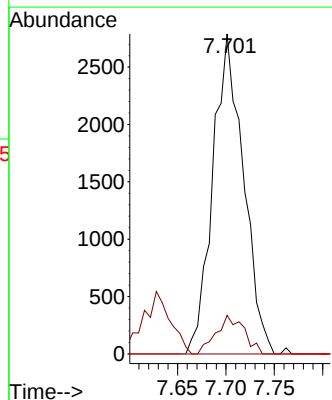
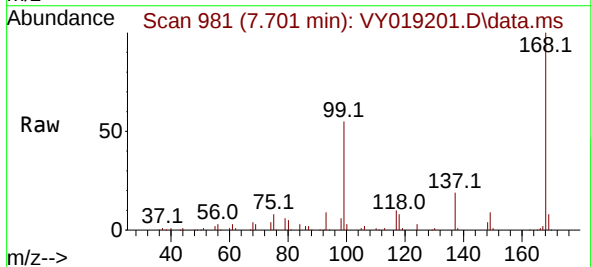
Instrument :  
 MSVOA\_Y  
 ClientSampleId :

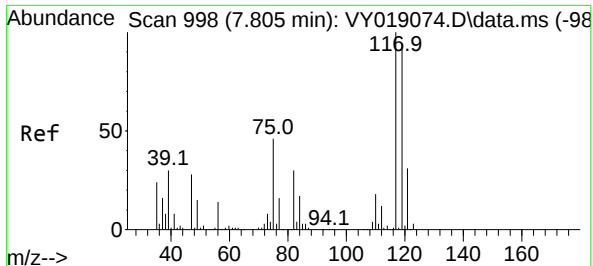
Tgt Ion:113 Resp: 48375  
 Ion Ratio Lower Upper  
 113 100  
 111 103.6 82.2 123.4  
 192 19.6 15.9 23.9



#36  
 1,1-Dichloropropene  
 Concen: 4.402 ug/l  
 RT: 7.701 min Scan# 981  
 Delta R.T. -0.122 min  
 Lab File: VY019201.D  
 Acq: 22 Aug 2024 05:45

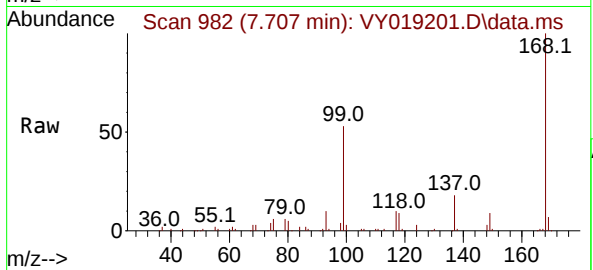
Tgt Ion: 75 Resp: 6140  
 Ion Ratio Lower Upper  
 75 100  
 110 10.9 19.0 57.0#  
 77 0.0 25.3 37.9#



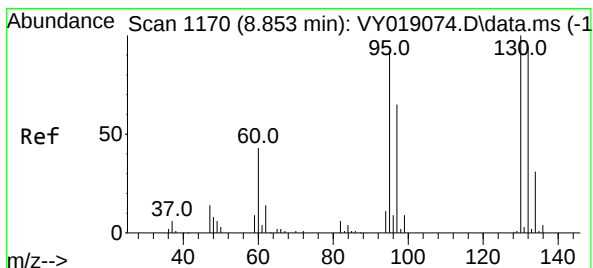
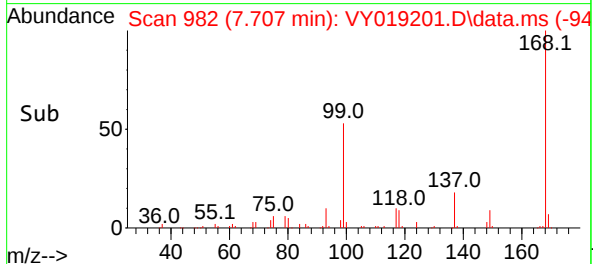
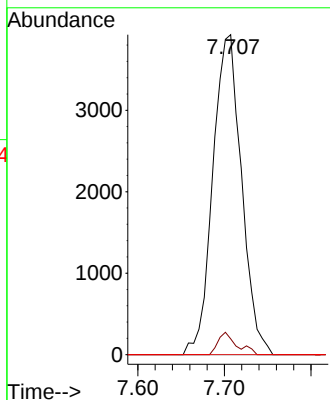


#38  
Carbon Tetrachloride  
Concen: 5.597 ug/l  
RT: 7.707 min Scan# 91  
Delta R.T. -0.097 min  
Lab File: VY019201.D  
Acq: 22 Aug 2024 05:45

Instrument :  
MSVOA\_Y  
ClientSampleId :

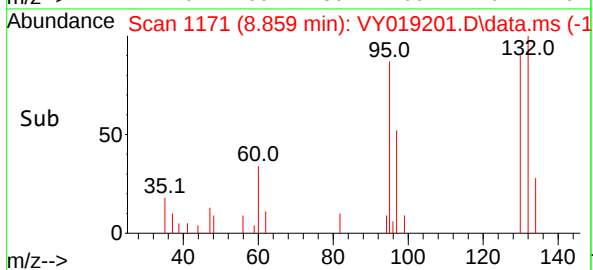
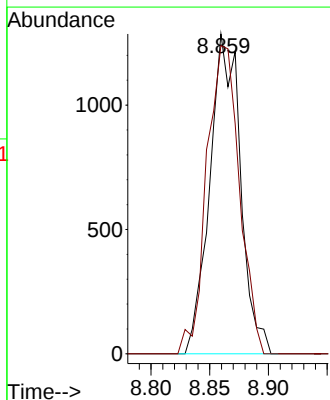
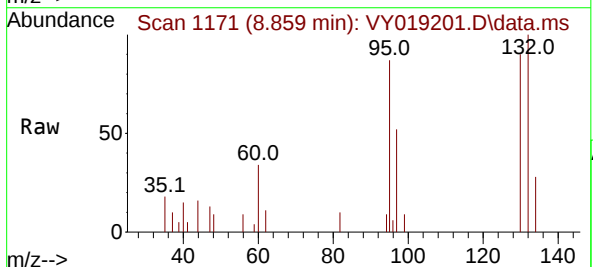


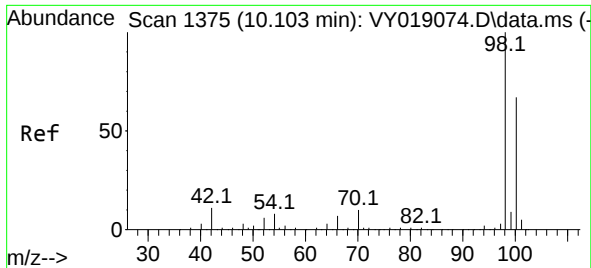
Tgt Ion:117 Resp: 9046  
Ion Ratio Lower Upper  
117 100  
119 5.0 75.8 113.6#  
121 0.0 24.0 36.0#



#44  
Trichloroethene  
Concen: 1.955 ug/l  
RT: 8.859 min Scan# 1171  
Delta R.T. 0.006 min  
Lab File: VY019201.D  
Acq: 22 Aug 2024 05:45

Tgt Ion:130 Resp: 2333  
Ion Ratio Lower Upper  
130 100  
95 96.3 0.0 188.0

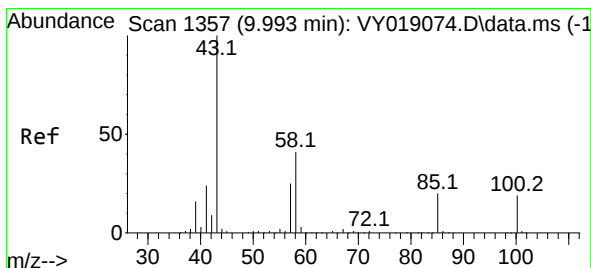
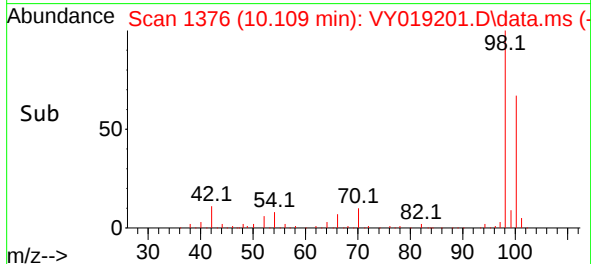
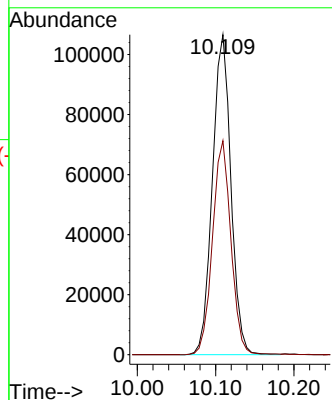
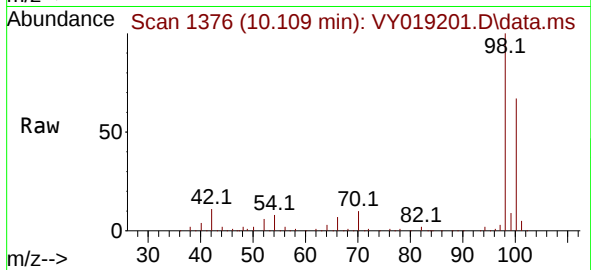




#50  
Toluene-d8  
Concen: 47.815 ug/l  
RT: 10.109 min Scan# 1375  
Delta R.T. 0.006 min  
Lab File: VY019201.D  
Acq: 22 Aug 2024 05:45

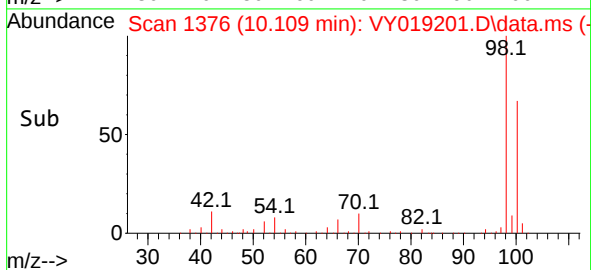
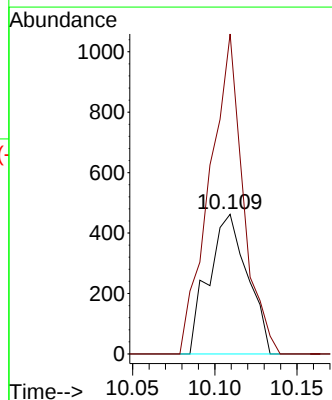
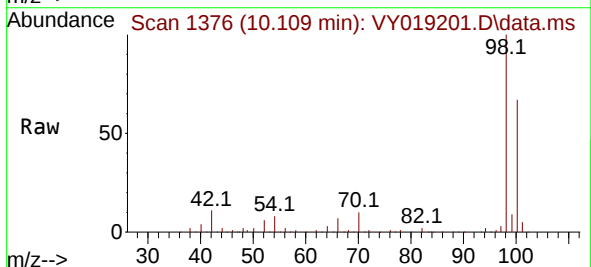
Instrument :  
MSVOA\_Y  
ClientSampleId :

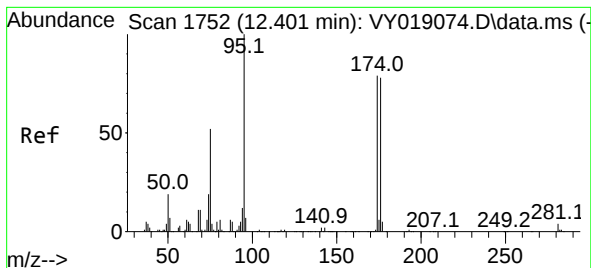
Tgt Ion: 98 Resp: 174767  
Ion Ratio Lower Upper  
98 100  
100 66.7 52.0 78.0



#51  
4-Methyl-2-Pentanone  
Concen: 1.147 ug/l  
RT: 10.109 min Scan# 1376  
Delta R.T. 0.116 min  
Lab File: VY019201.D  
Acq: 22 Aug 2024 05:45

Tgt Ion: 43 Resp: 761  
Ion Ratio Lower Upper  
43 100  
58 197.8 35.7 53.5#

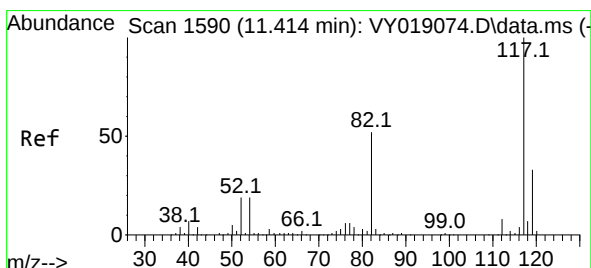
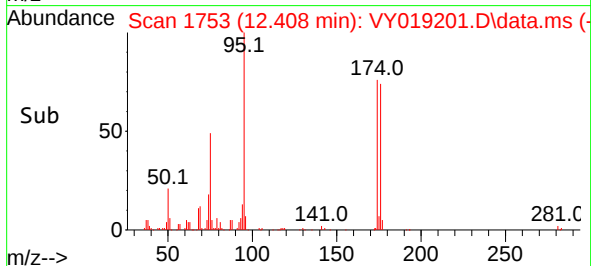
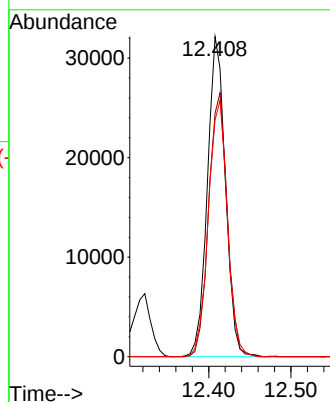
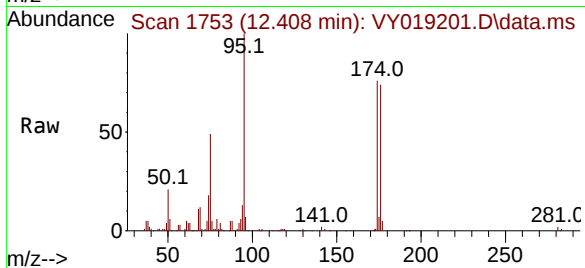




#62  
4-Bromofluorobenzene  
Concen: 39.258 ug/l  
RT: 12.408 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VY019201.D  
Acq: 22 Aug 2024 05:45

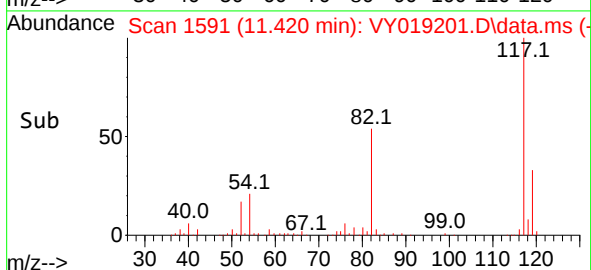
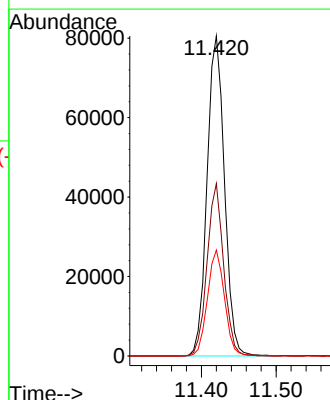
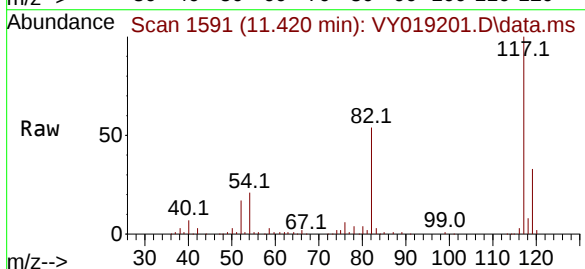
Instrument :  
MSVOA\_Y  
ClientSampleId :

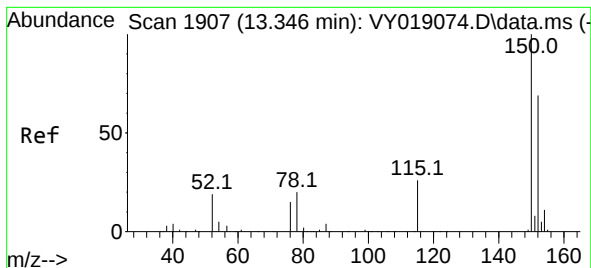
Tgt Ion: 95 Resp: 48915  
Ion Ratio Lower Upper  
95 100  
174 85.0 0.0 175.6  
176 84.2 0.0 171.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.420 min Scan# 1591  
Delta R.T. 0.006 min  
Lab File: VY019201.D  
Acq: 22 Aug 2024 05:45

Tgt Ion: 117 Resp: 130117  
Ion Ratio Lower Upper  
117 100  
82 53.8 42.4 63.6  
119 33.1 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: VY019201.D

Acq: 22 Aug 2024 05:45

Instrument :

MSVOA\_Y

ClientSampleId :

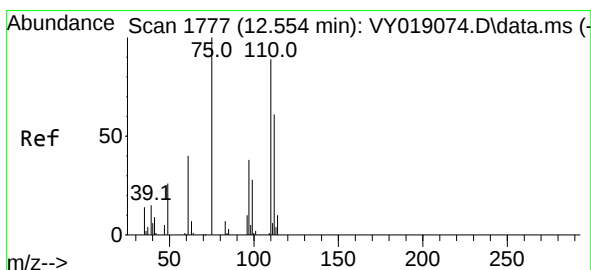
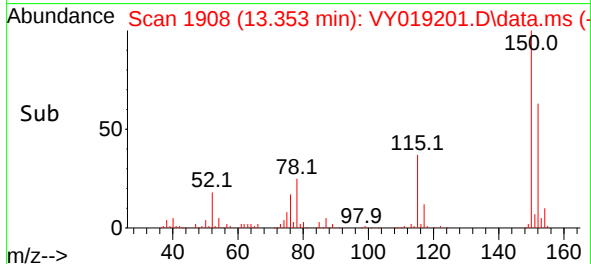
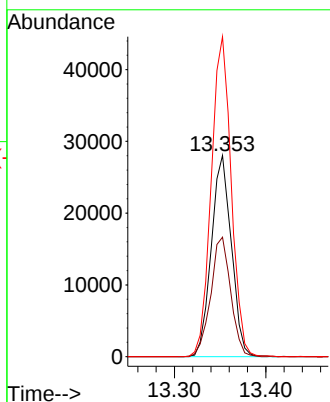
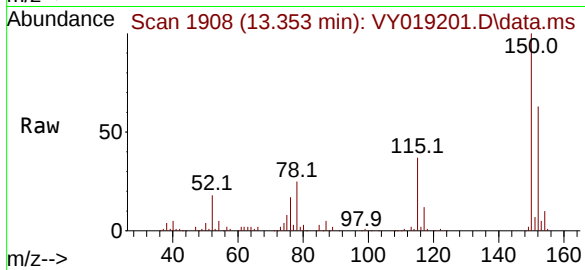
Tgt Ion:152 Resp: 42664

Ion Ratio Lower Upper

152 100

115 59.3 28.2 84.7

150 158.6 0.0 345.6



#76

1,2,3-Trichloropropane

Concen: 62.123 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. -0.146 min

Lab File: VY019201.D

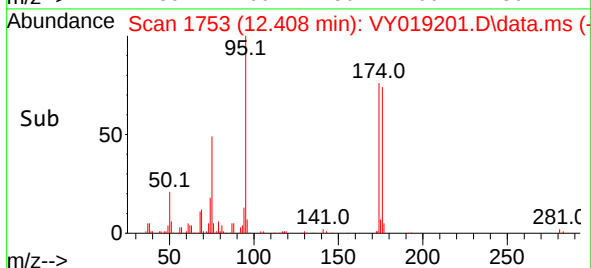
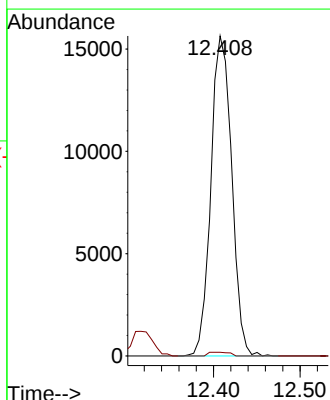
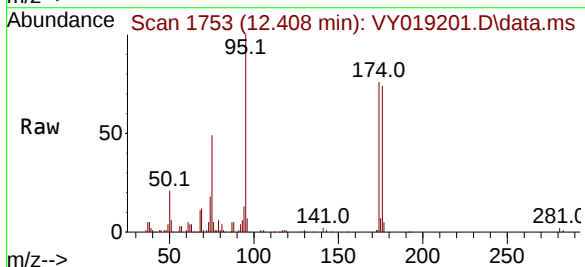
Acq: 22 Aug 2024 05:45

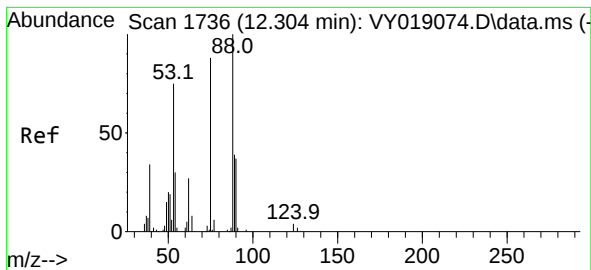
Tgt Ion: 75 Resp: 26138

Ion Ratio Lower Upper

75 100

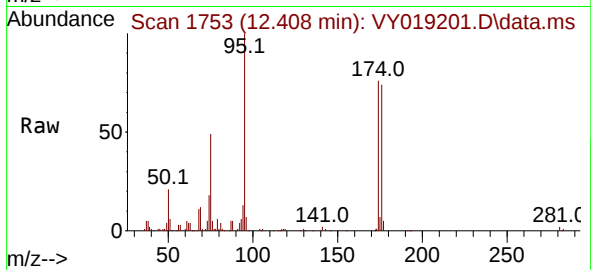
77 1.2 0.0 0.0#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 153.424 ug/l  
 RT: 12.408 min Scan# 11  
 Delta R.T. 0.104 min  
 Lab File: VY019201.D  
 Acq: 22 Aug 2024 05:45

Instrument :  
 MSVOA\_Y  
 ClientSampleId :



|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 75    | Resp: | 26138  |
| Ion      | Ratio | Lower | Upper  |
| 75       | 100   |       |        |
| 53       | 0.0   | 66.8  | 100.2# |
| 89       | 0.3   | 35.8  | 53.6#  |

