

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY091724\  
 Data File : VY019590.D  
 Acq On : 17 Sep 2024 16:59  
 Operator : SY/MD  
 Sample : P4002-07  
 Misc : 5.02g/5.0mL/MSVOA\_Y/SOIL/B  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Sep 18 01:34:04 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y090924S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Sep 09 16:00:30 2024  
 Response via : Initial Calibration

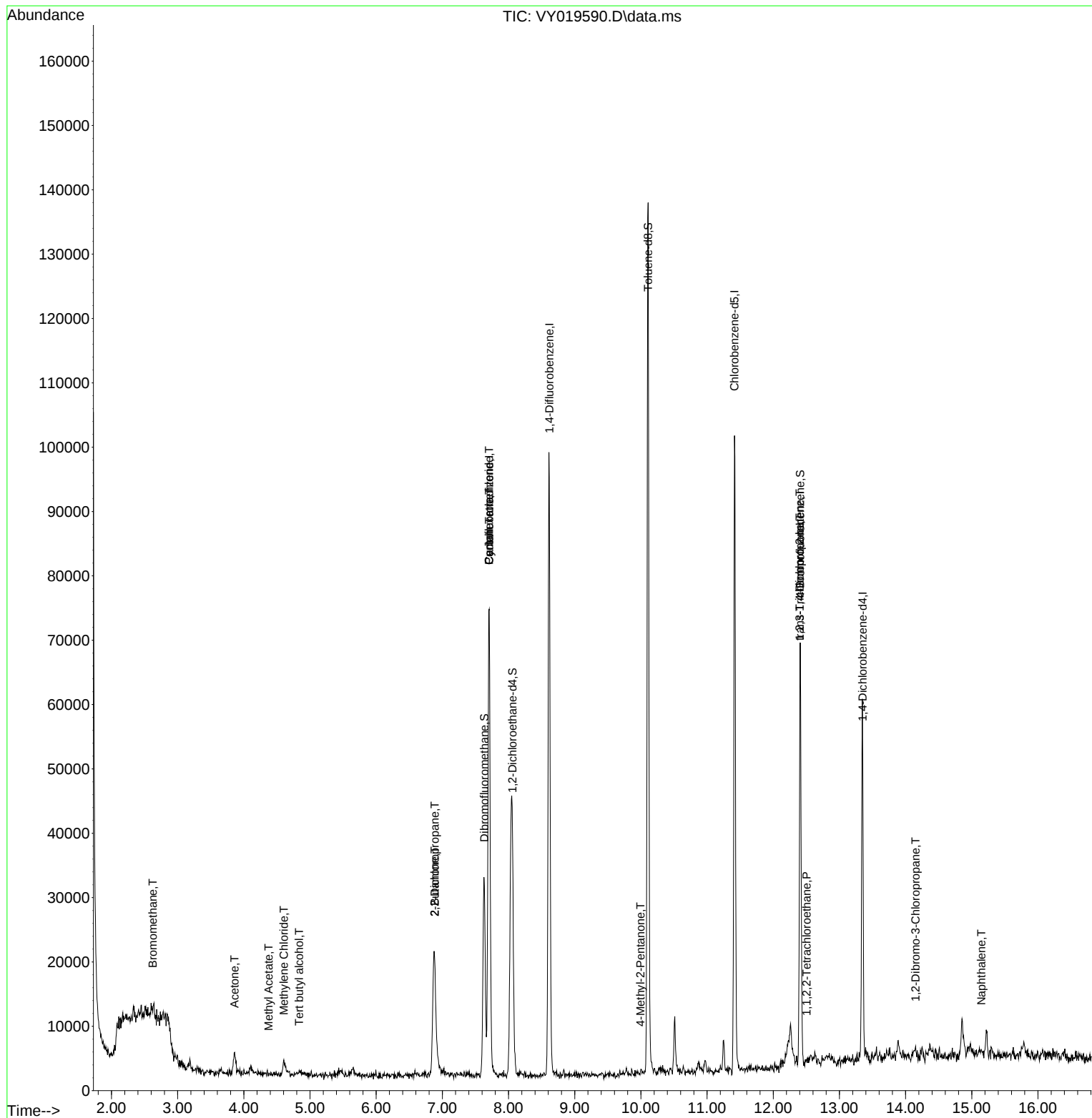
| Compound                      | R.T.   | QIon  | Response | Conc      | Units | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|-------|----------|
| -----                         |        |       |          |           |       |          |
| Internal Standards            |        |       |          |           |       |          |
| 1) Pentafluorobenzene         | 7.707  | 168   | 54221    | 50.000    | ug/l  | # 0.00   |
| 34) 1,4-Difluorobenzene       | 8.616  | 114   | 82384    | 50.000    | ug/l  | 0.00     |
| 63) Chlorobenzene-d5          | 11.414 | 117   | 52721    | 50.000    | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.352 | 152   | 12743    | 50.000    | ug/l  | 0.00     |
| System Monitoring Compounds   |        |       |          |           |       |          |
| 33) 1,2-Dichloroethane-d4     | 8.061  | 65    | 20589    | 41.008    | ug/l  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | =     | 82.020%  |
| 35) Dibromofluoromethane      | 7.634  | 113   | 21994    | 47.086    | ug/l  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | =     | 94.180%  |
| 50) Toluene-d8                | 10.109 | 98    | 89963    | 52.071    | ug/l  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 134 | Recovery  | =     | 104.140% |
| 62) 4-Bromofluorobenzene      | 12.408 | 95    | 19300    | 29.052    | ug/l  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 29 - 146 | Recovery  | =     | 58.100%  |
| Target Compounds              |        |       |          |           |       |          |
|                               |        |       |          |           |       | Qvalue   |
| 5) Bromomethane               | 2.623  | 94    | 323      | 1.084     | ug/l  | # 3      |
| 11) Tert butyl alcohol        | 4.836  | 59    | 744      | 18.349    | ug/l  | # 88     |
| 13) Acrolein                  | 3.647  | 56    | 204      | Below Cal |       | # 64     |
| 16) Acetone                   | 3.860  | 43    | 6232     | 52.102    | ug/l  | 93       |
| 18) Methyl Acetate            | 4.372  | 43    | 378      | 1.165     | ug/l  | # 46     |
| 20) Methylene Chloride        | 4.604  | 84    | 1474     | 2.702     | ug/l  | # 80     |
| 25) 2-Butanone                | 6.884  | 43    | 2832     | 16.647    | ug/l  | # 67     |
| 26) 2,2-Dichloropropane       | 6.884  | 77    | 1013     | 1.130     | ug/l  | # 51     |
| 31) Cyclohexane               | 7.707  | 56    | 1670     | 1.859     | ug/l  | # 62     |
| 38) Carbon Tetrachloride      | 7.707  | 117   | 5823     | 8.124     | ug/l  | # 16     |
| 51) 4-Methyl-2-Pentanone      | 9.993  | 43    | 615      | 1.787     | ug/l  | # 31     |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83    | 283      | 1.725     | ug/l  | # 30     |
| 76) 1,2,3-Trichloropropane    | 12.401 | 75    | 10247    | 85.793    | ug/l  | # 100    |
| 81) trans-1,4-Dichloro-2-b... | 12.401 | 75    | 10247    | 164.697   | ug/l  | # 17     |
| 92) 1,2-Dibromo-3-Chloropr... | 14.151 | 75    | 46       | 1.682     | ug/l  | # 1      |
| 95) Naphthalene               | 15.145 | 128   | 521      | 1.203     | ug/l  | # 74     |
| -----                         |        |       |          |           |       |          |

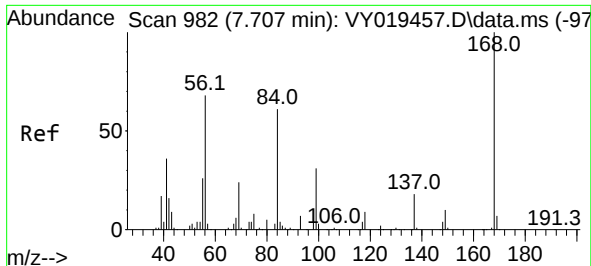
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY091724\  
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Quant Time: Sep 18 01:34:04 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y090924S.M  
Quant Title : SW846 8260  
QLast Update : Mon Sep 09 16:00:30 2024  
Response via : Initial Calibration

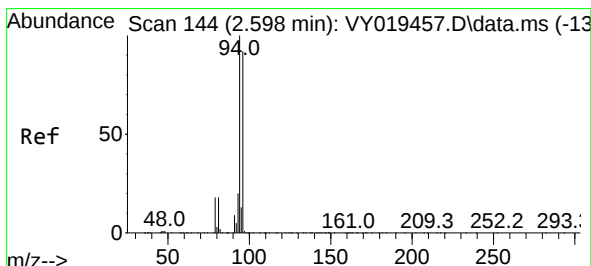
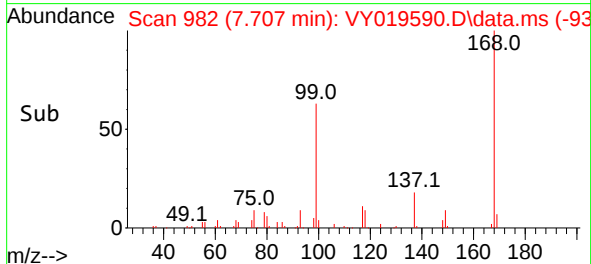
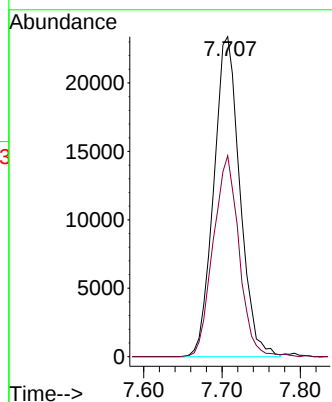
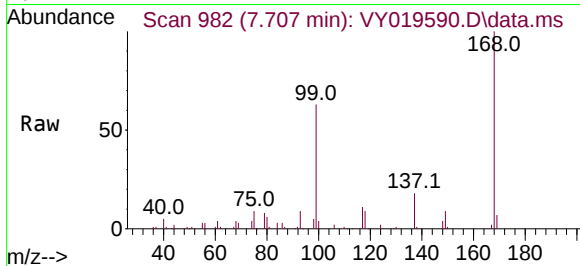




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.707 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VY019590.D  
Acq: 17 Sep 2024 16:59

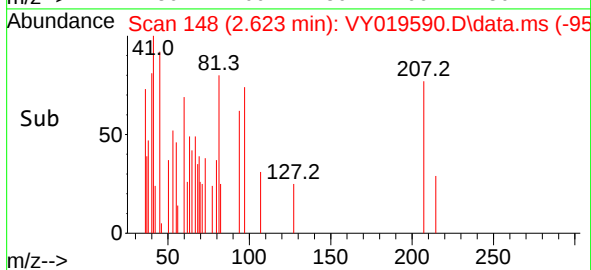
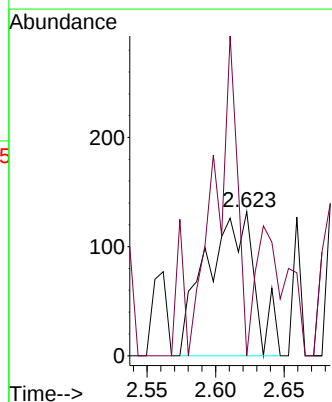
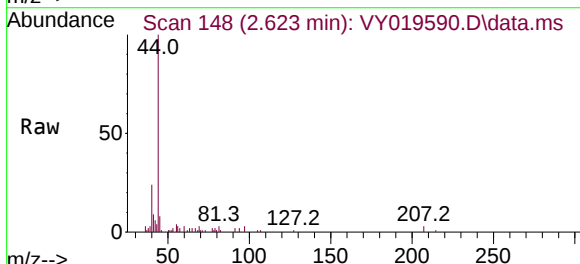
Instrument :  
MSVOA\_Y  
ClientSampleId :

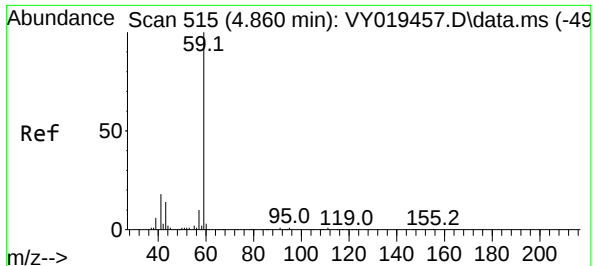
Tgt Ion:168 Resp: 54221  
Ion Ratio Lower Upper  
168 100  
99 62.8 39.1 58.7#



#5  
Bromomethane  
Concen: 1.084 ug/l  
RT: 2.623 min Scan# 148  
Delta R.T. 0.025 min  
Lab File: VY019590.D  
Acq: 17 Sep 2024 16:59

Tgt Ion: 94 Resp: 323  
Ion Ratio Lower Upper  
94 100  
96 0.0 74.1 111.1#

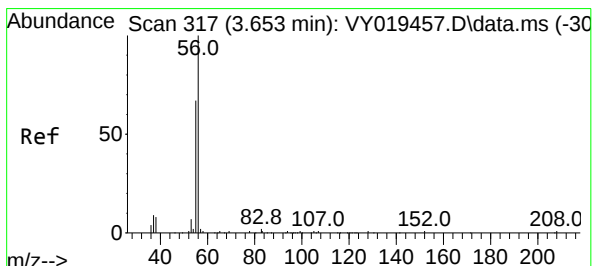
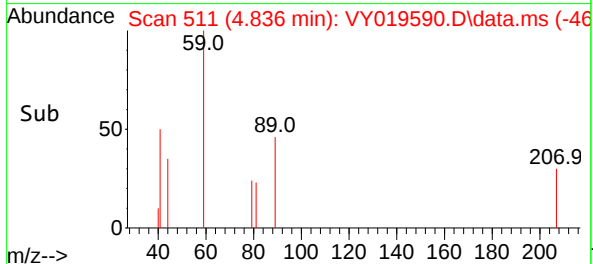
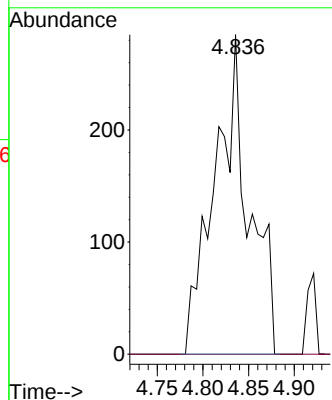
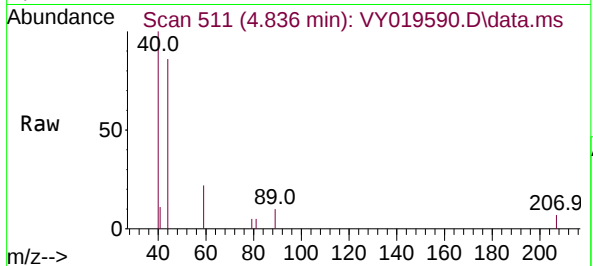




#11  
Tert butyl alcohol  
Concen: 18.349 ug/l  
RT: 4.836 min Scan# 511  
Delta R.T. -0.024 min  
Lab File: VY019590.D  
Acq: 17 Sep 2024 16:59

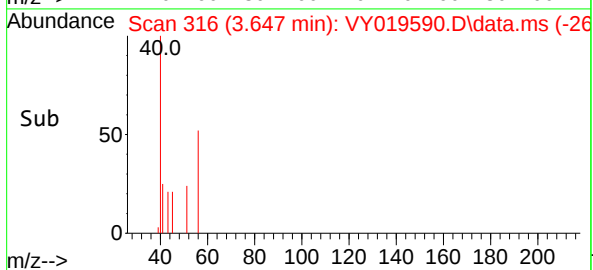
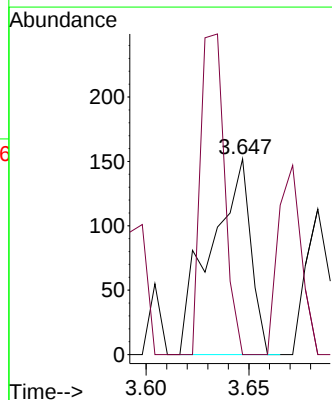
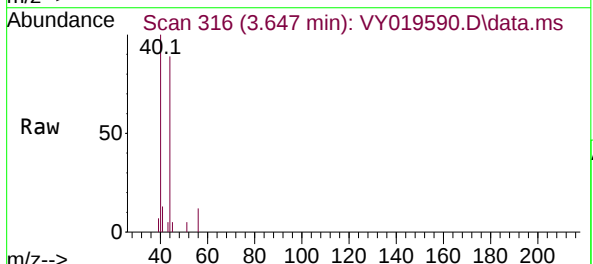
Instrument :  
MSVOA\_Y  
ClientSampleId :

Tgt Ion: 59 Resp: 744  
Ion Ratio Lower Upper  
59 100  
57 0.0 3.0 4.6#



#13  
Acrolein  
Concen: Below Cal  
RT: 3.647 min Scan# 316  
Delta R.T. -0.006 min  
Lab File: VY019590.D  
Acq: 17 Sep 2024 16:59

Tgt Ion: 56 Resp: 204  
Ion Ratio Lower Upper  
56 100  
55 99.0 55.7 83.5#

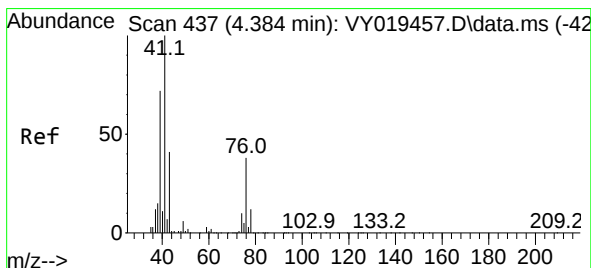
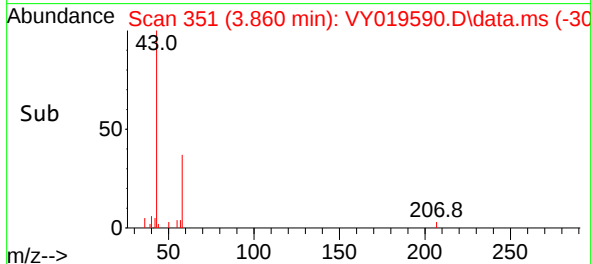
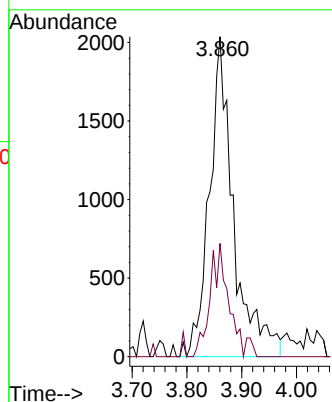
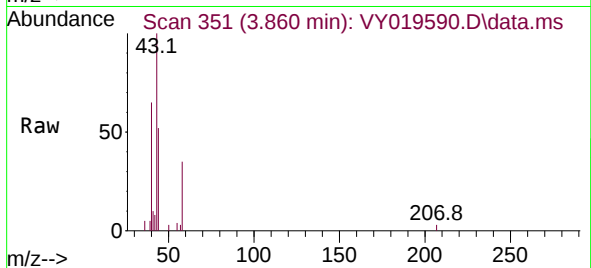




#16  
Acetone  
Concen: 52.102 ug/l  
RT: 3.860 min Scan# 31  
Delta R.T. -0.012 min  
Lab File: VY019590.D  
Acq: 17 Sep 2024 16:59

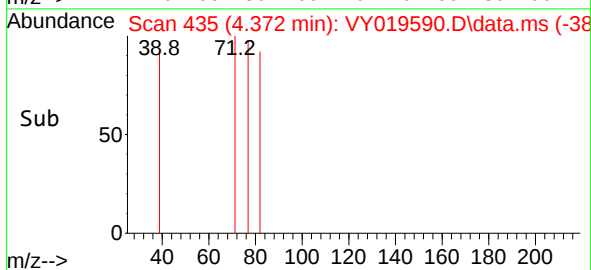
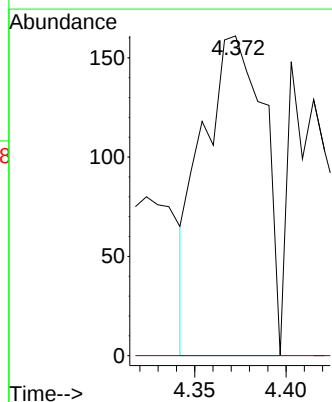
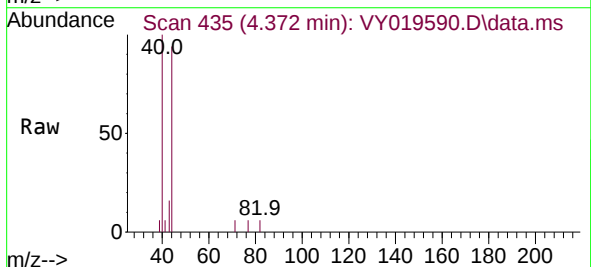
Instrument :  
MSVOA\_Y  
ClientSampleId :

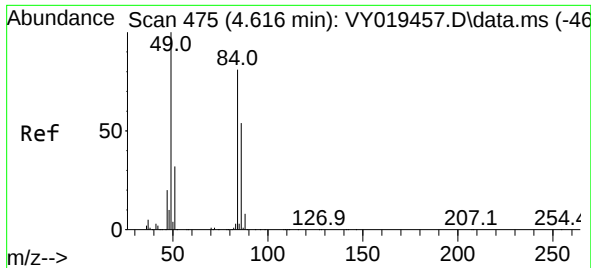
Tgt Ion: 43 Resp: 6232  
Ion Ratio Lower Upper  
43 100  
58 35.4 31.7 47.5



#18  
Methyl Acetate  
Concen: 1.165 ug/l  
RT: 4.372 min Scan# 435  
Delta R.T. -0.012 min  
Lab File: VY019590.D  
Acq: 17 Sep 2024 16:59

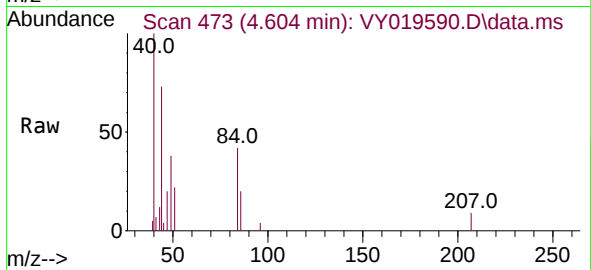
Tgt Ion: 43 Resp: 378  
Ion Ratio Lower Upper  
43 100  
74 0.0 23.3 34.9#



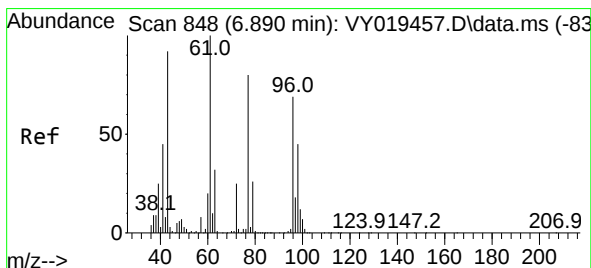
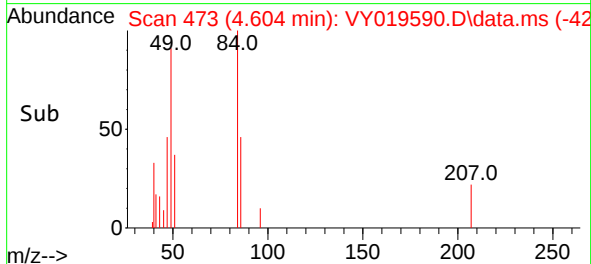
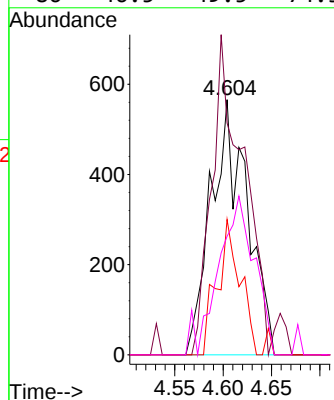


#20  
Methylene Chloride  
Concen: 2.702 ug/l  
RT: 4.604 min Scan# 41  
Delta R.T. -0.012 min  
Lab File: VY019590.D  
Acq: 17 Sep 2024 16:59

Instrument :  
MSVOA\_Y  
ClientSampleId :

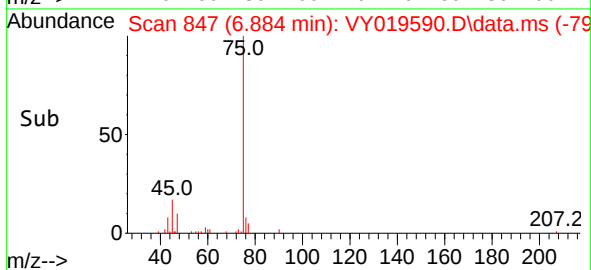
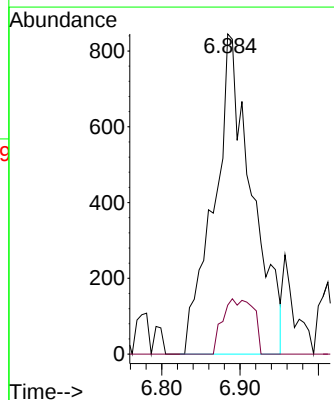
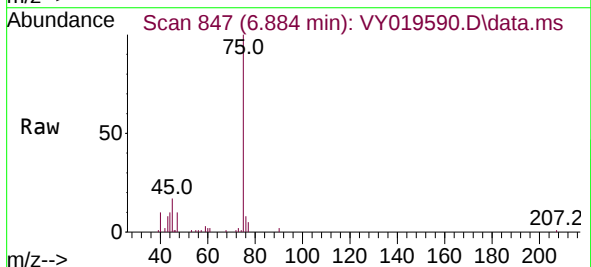


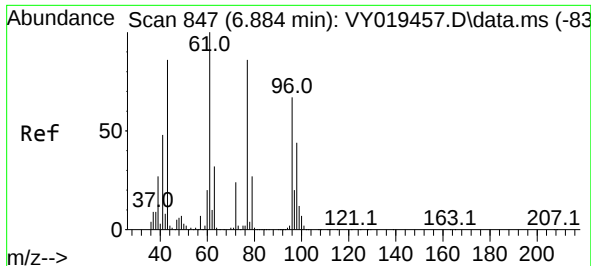
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 1474  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 90.8  | 84.4  | 126.6 |
| 51       | 53.0  | 26.0  | 39.0# |
| 86       | 46.5  | 49.5  | 74.3# |



#25  
2-Butanone  
Concen: 16.647 ug/l  
RT: 6.884 min Scan# 847  
Delta R.T. -0.006 min  
Lab File: VY019590.D  
Acq: 17 Sep 2024 16:59

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 2832  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 15.3  | 27.3  | 40.9# |





#26

2,2-Dichloropropane

Concen: 1.130 ug/l

RT: 6.884 min Scan# 847

Delta R.T. 0.000 min

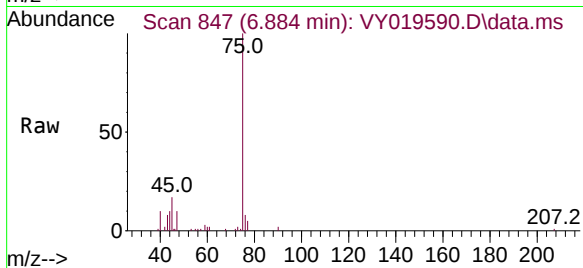
Lab File: VY019590.D

Acq: 17 Sep 2024 16:59

Instrument :

MSVOA\_Y

ClientSampleId :

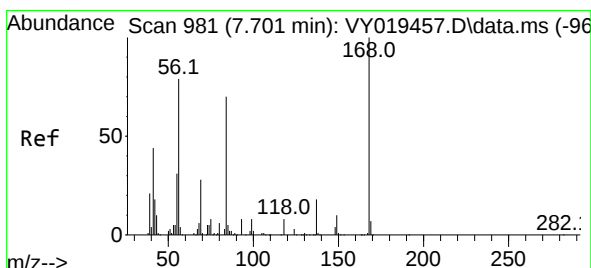
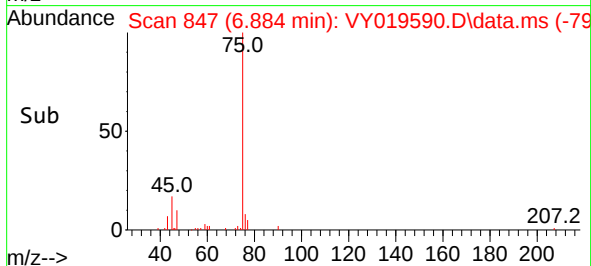
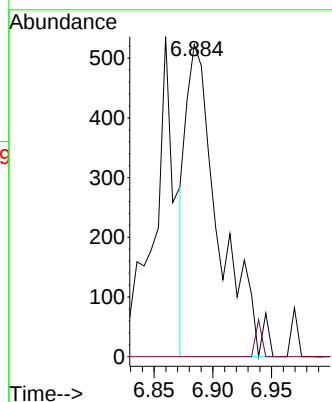


Tgt Ion: 77 Resp: 1013

Ion Ratio Lower Upper

77 100

97 0.0 12.0 36.1#



#31

Cyclohexane

Concen: 1.859 ug/l

RT: 7.707 min Scan# 982

Delta R.T. 0.006 min

Lab File: VY019590.D

Acq: 17 Sep 2024 16:59

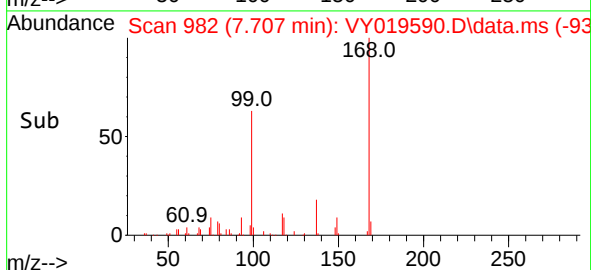
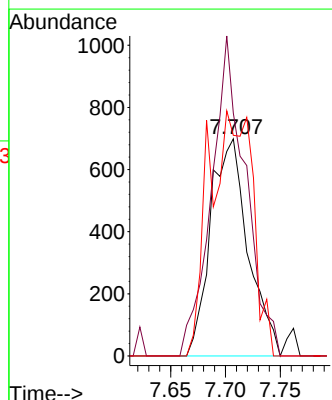
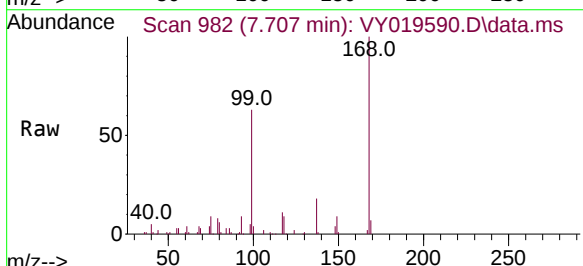
Tgt Ion: 56 Resp: 1670

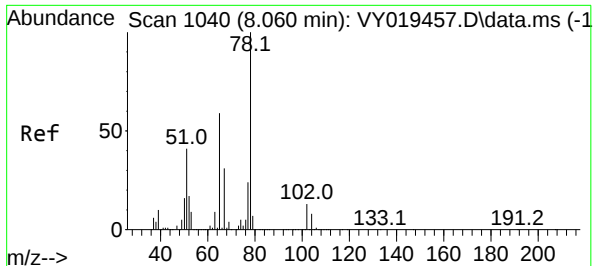
Ion Ratio Lower Upper

56 100

69 111.9 28.7 43.1#

84 101.6 77.7 116.5





#33

1,2-Dichloroethane-d4

Concen: 41.008 ug/l

RT: 8.061 min Scan# 11040

Delta R.T. 0.000 min

Lab File: VY019590.D

Acq: 17 Sep 2024 16:59

Instrument :

MSVOA\_Y

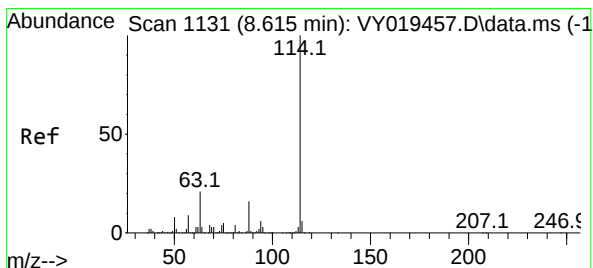
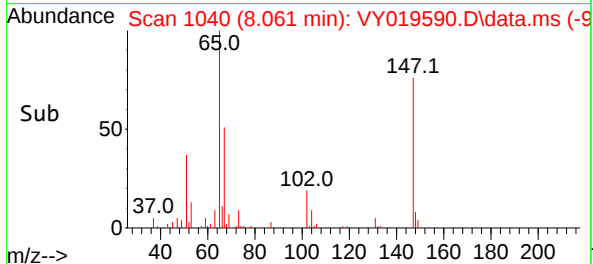
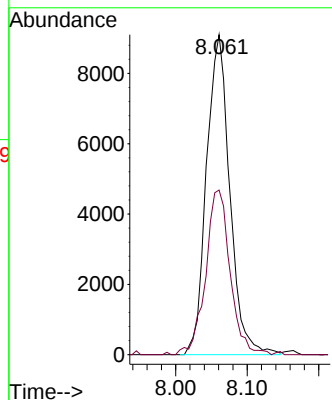
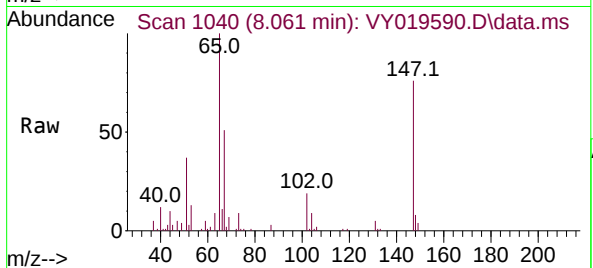
ClientSampleId :

Tgt Ion: 65 Resp: 20589

Ion Ratio Lower Upper

65 100

67 54.0 0.0 109.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY019590.D

Acq: 17 Sep 2024 16:59

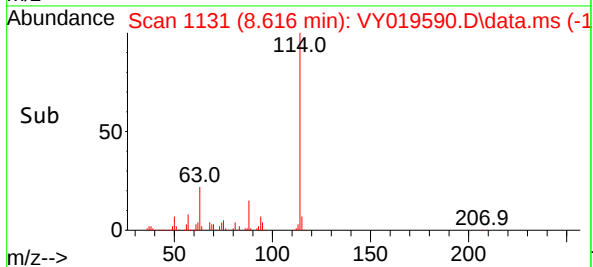
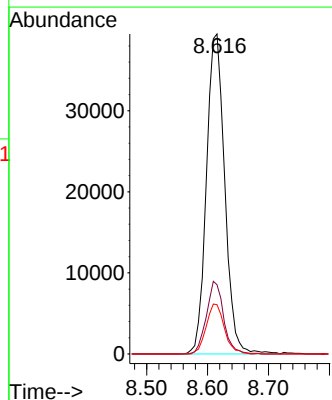
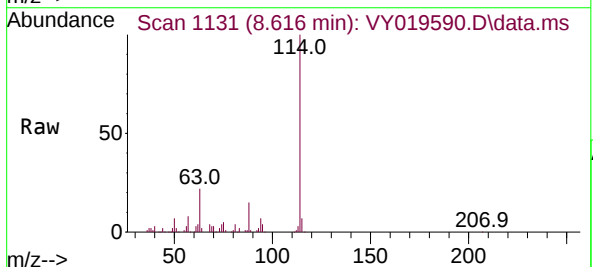
Tgt Ion: 114 Resp: 82384

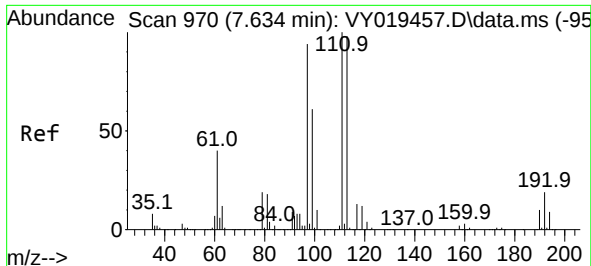
Ion Ratio Lower Upper

114 100

63 21.7 0.0 35.0

88 15.4 0.0 27.2





#35

Dibromofluoromethane

Concen: 47.086 ug/l

RT: 7.634 min Scan# 91

Delta R.T. 0.000 min

Lab File: VY019590.D

Acq: 17 Sep 2024 16:59

Instrument :

MSVOA\_Y

ClientSampleId :

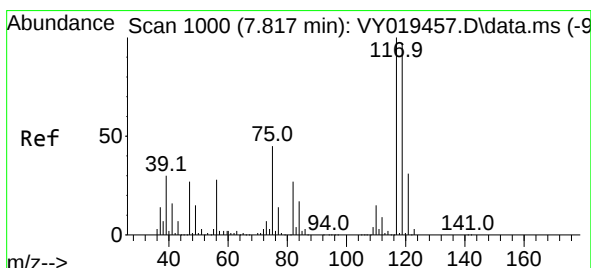
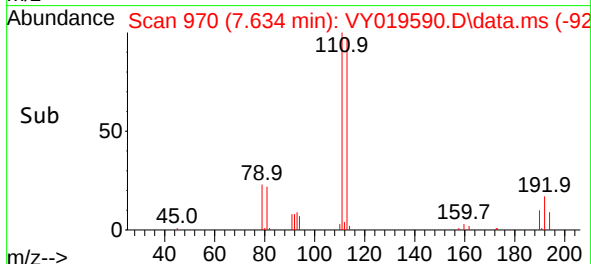
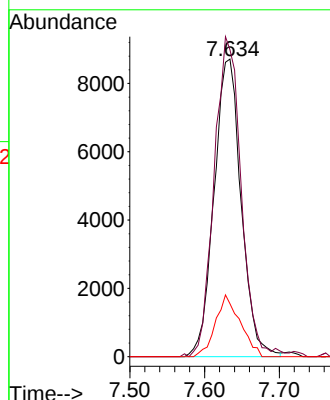
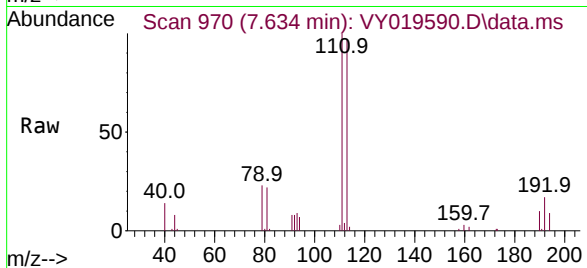
Tgt Ion:113 Resp: 21994

Ion Ratio Lower Upper

113 100

111 107.0 82.2 123.4

192 19.0 15.9 23.9



#38

Carbon Tetrachloride

Concen: 8.124 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.109 min

Lab File: VY019590.D

Acq: 17 Sep 2024 16:59

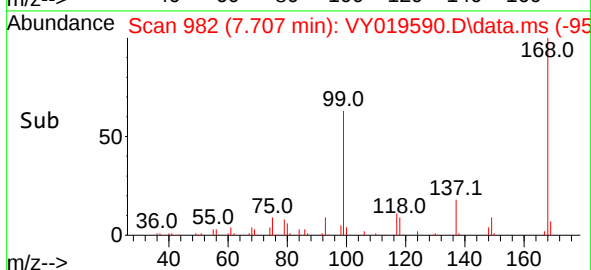
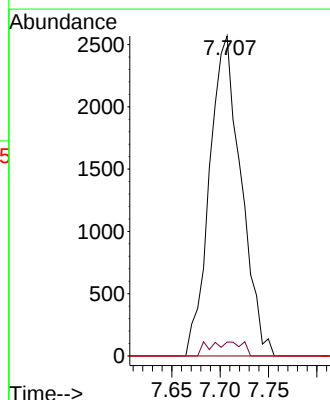
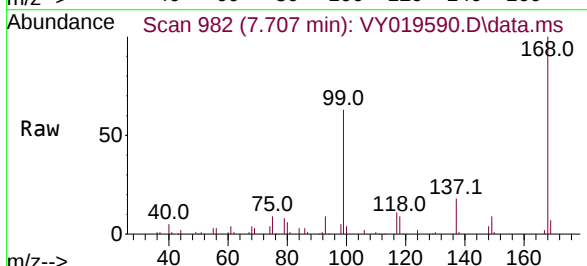
Tgt Ion:117 Resp: 5823

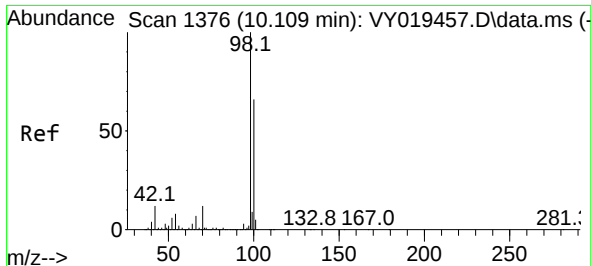
Ion Ratio Lower Upper

117 100

119 4.4 75.8 113.6#

121 0.0 24.0 36.0#

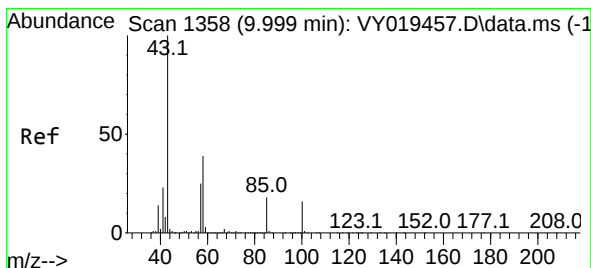
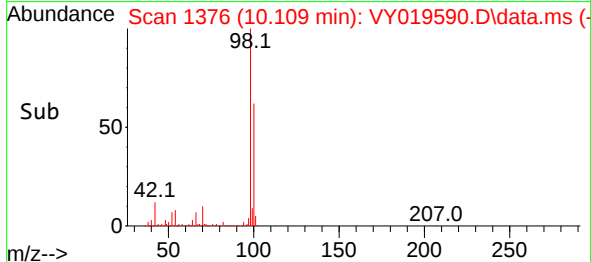
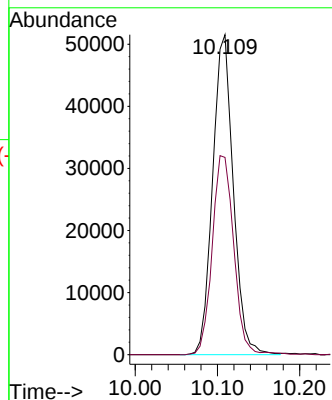
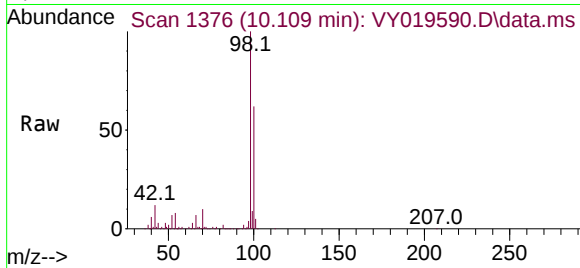




#50  
Toluene-d8  
Concen: 52.071 ug/l  
RT: 10.109 min Scan# 1376  
Delta R.T. 0.000 min  
Lab File: VY019590.D  
Acq: 17 Sep 2024 16:59

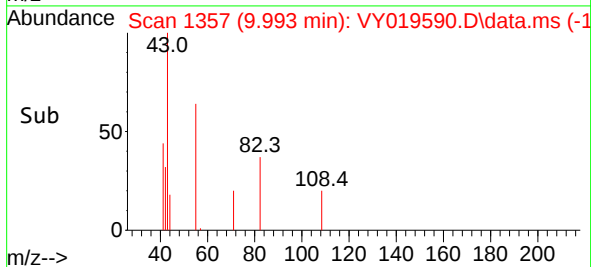
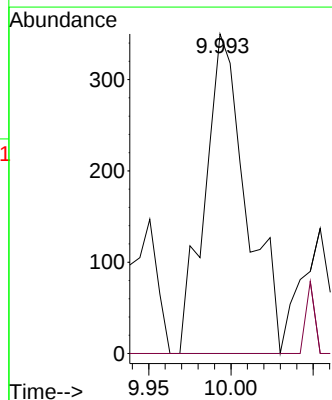
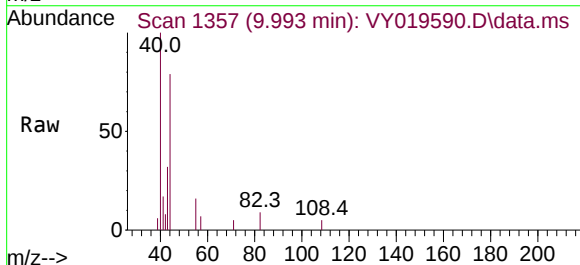
Instrument :  
MSVOA\_Y  
ClientSampleId :

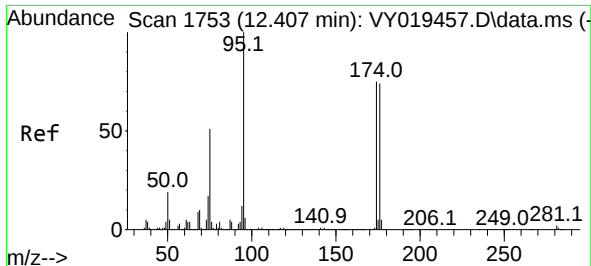
Tgt Ion: 98 Resp: 89963  
Ion Ratio Lower Upper  
98 100  
100 65.0 52.0 78.0



#51  
4-Methyl-2-Pentanone  
Concen: 1.787 ug/l  
RT: 9.993 min Scan# 1357  
Delta R.T. -0.006 min  
Lab File: VY019590.D  
Acq: 17 Sep 2024 16:59

Tgt Ion: 43 Resp: 615  
Ion Ratio Lower Upper  
43 100  
58 0.0 35.7 53.5#





#62

4-Bromofluorobenzene

Concen: 29.052 ug/l

RT: 12.408 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY019590.D

Acq: 17 Sep 2024 16:59

Instrument :

MSVOA\_Y

ClientSampleId :

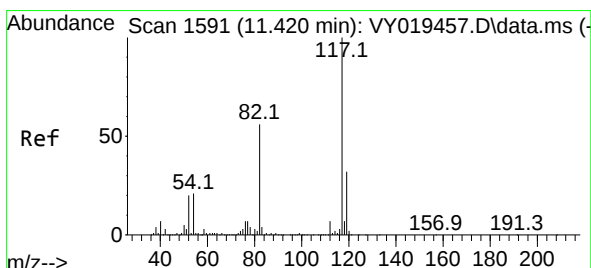
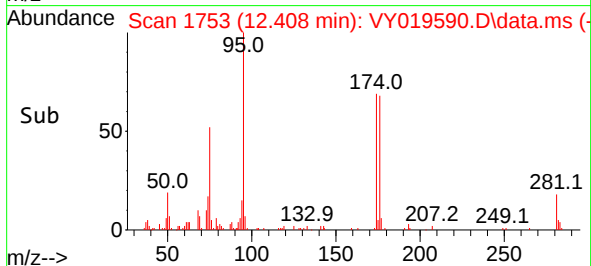
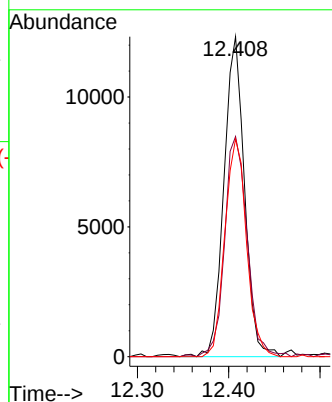
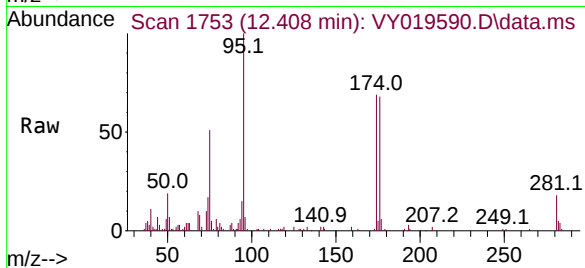
Tgt Ion: 95 Resp: 19300

Ion Ratio Lower Upper

95 100

174 75.4 0.0 175.6

176 71.5 0.0 171.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 1590

Delta R.T. -0.006 min

Lab File: VY019590.D

Acq: 17 Sep 2024 16:59

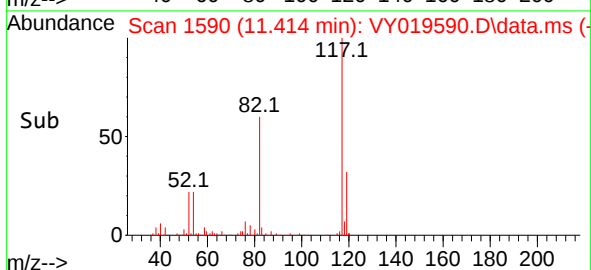
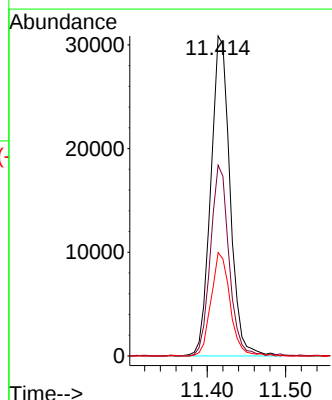
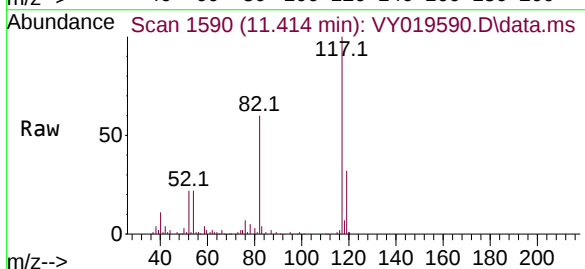
Tgt Ion: 117 Resp: 52721

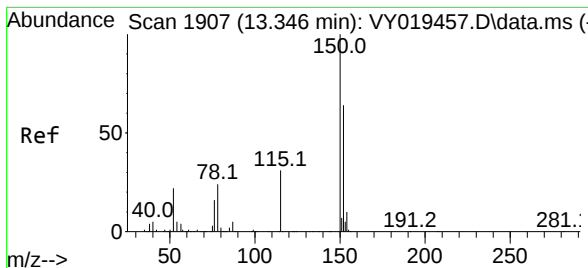
Ion Ratio Lower Upper

117 100

82 59.6 42.4 63.6

119 32.3 25.9 38.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.352 min Scan# 1908

Delta R.T. 0.006 min

Lab File: VY019590.D

Acq: 17 Sep 2024 16:59

Instrument :

MSVOA\_Y

ClientSampleId :

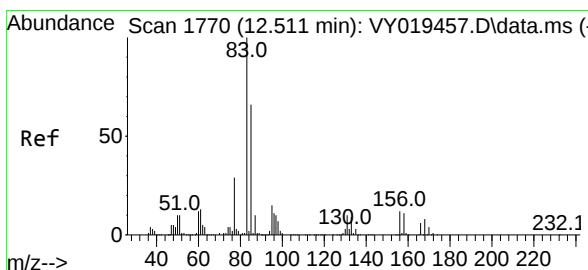
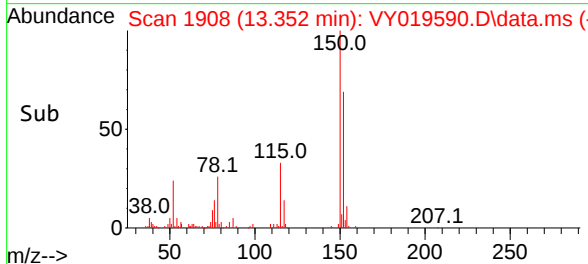
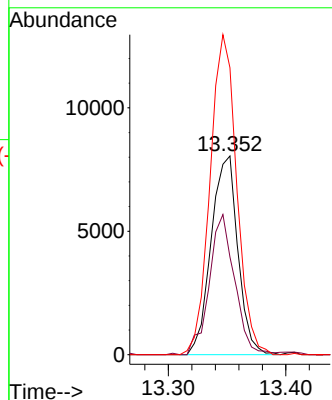
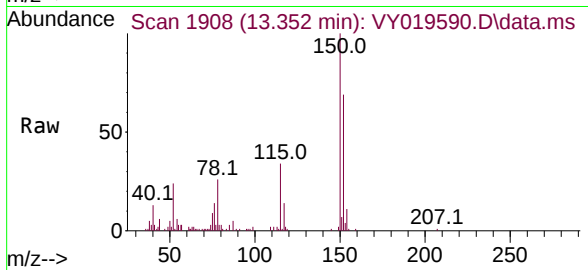
Tgt Ion:152 Resp: 12743

Ion Ratio Lower Upper

152 100

115 67.0 28.2 84.7

150 160.3 0.0 345.6



#75

1,1,2,2-Tetrachloroethane

Concen: 1.725 ug/l

RT: 12.505 min Scan# 1769

Delta R.T. -0.006 min

Lab File: VY019590.D

Acq: 17 Sep 2024 16:59

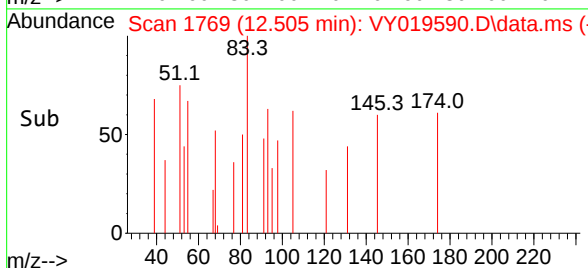
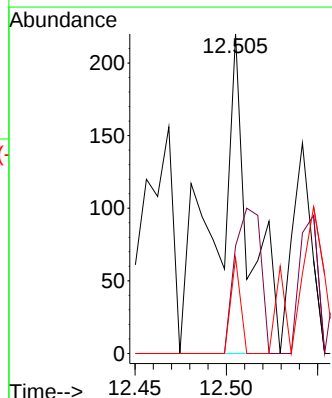
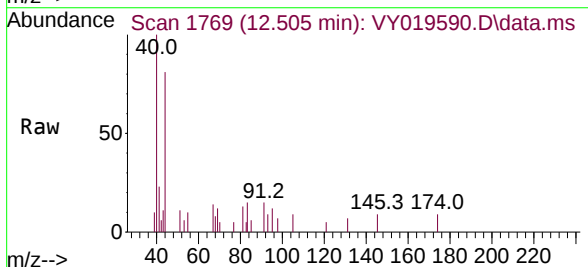
Tgt Ion: 83 Resp: 283

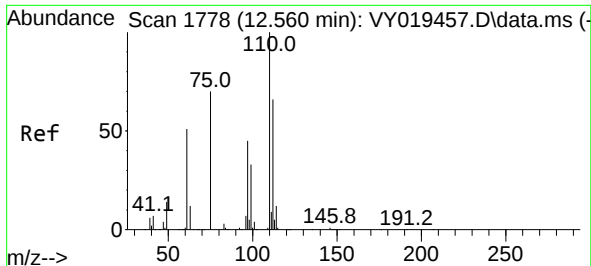
Ion Ratio Lower Upper

83 100

131 34.6 5.0 14.9#

85 8.5 32.0 96.0#

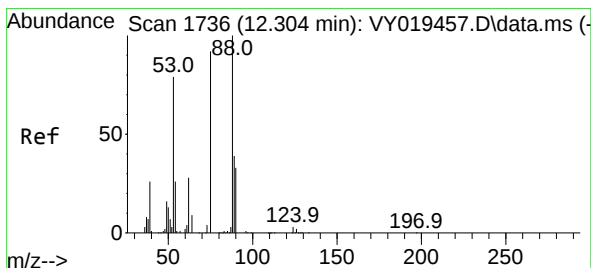
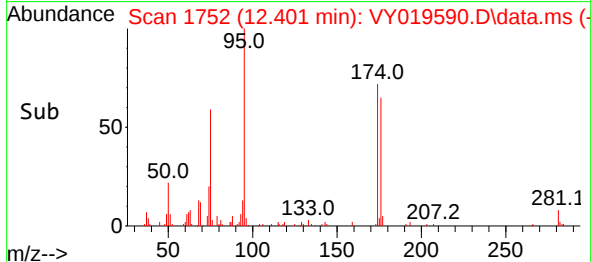
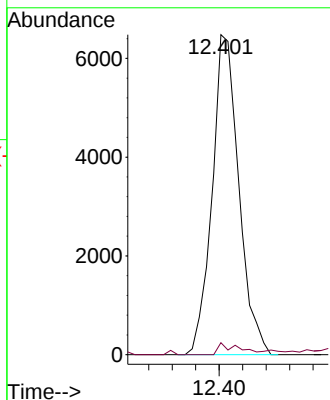
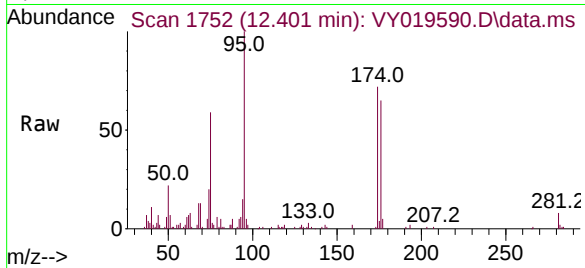




#76  
1,2,3-Trichloropropane  
Concen: 85.793 ug/l  
RT: 12.401 min Scan# 1752  
Delta R.T. -0.158 min  
Lab File: VY019590.D  
Acq: 17 Sep 2024 16:59

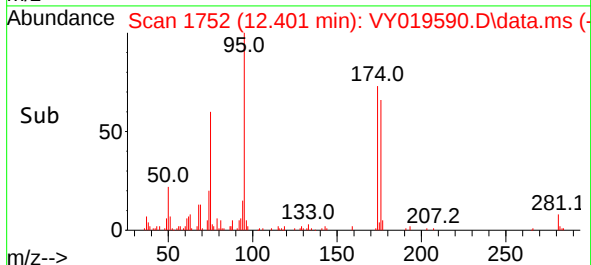
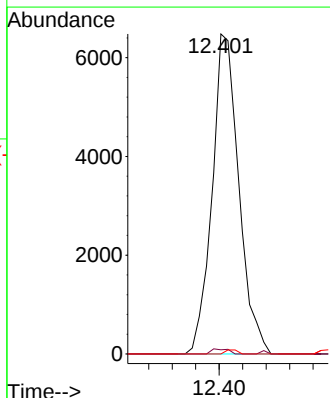
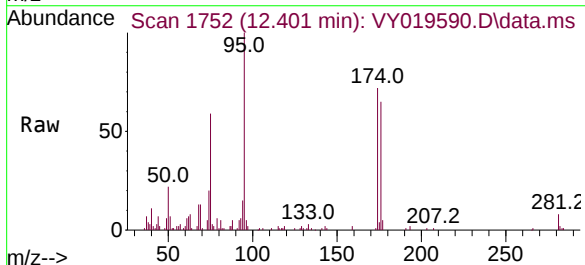
Instrument :  
MSVOA\_Y  
ClientSampleId :

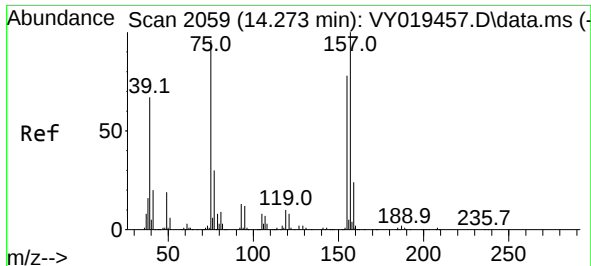
Tgt Ion: 75 Resp: 10247  
Ion Ratio Lower Upper  
75 100  
77 2.8 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 164.697 ug/l  
RT: 12.401 min Scan# 1752  
Delta R.T. 0.098 min  
Lab File: VY019590.D  
Acq: 17 Sep 2024 16:59

Tgt Ion: 75 Resp: 10247  
Ion Ratio Lower Upper  
75 100  
53 1.0 66.8 100.2#  
89 0.6 35.8 53.6#





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.682 ug/l

RT: 14.151 min Scan# 2059

Delta R.T. -0.122 min

Lab File: VY019590.D

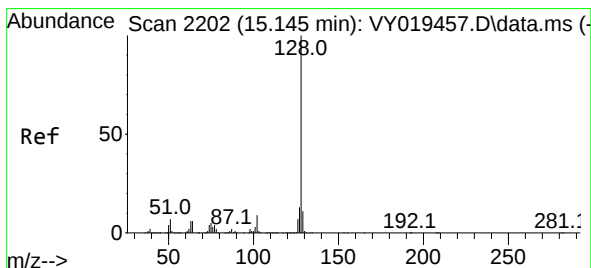
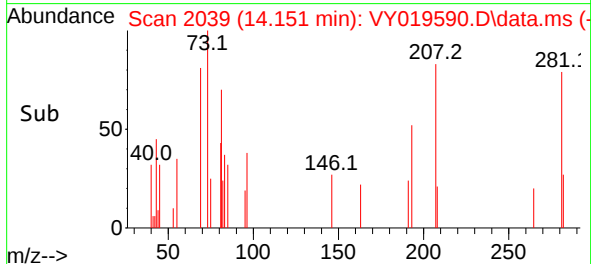
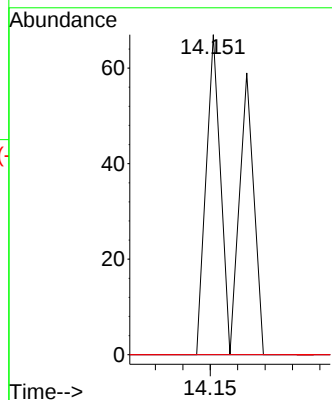
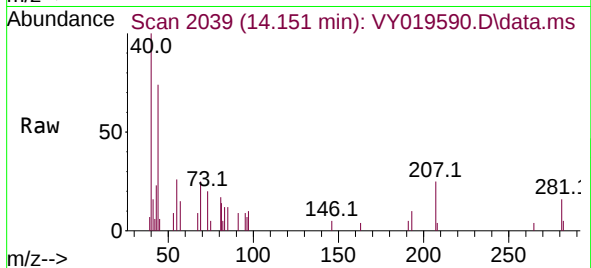
Acq: 17 Sep 2024 16:59

Instrument :

MSVOA\_Y

ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 75    | Resp: | 46     |
| Ion      | Ratio | Lower | Upper  |
| 75       | 100   |       |        |
| 155      | 0.0   | 48.6  | 145.8# |
| 157      | 0.0   | 62.7  | 188.2# |



#95

Naphthalene

Concen: 1.203 ug/l

RT: 15.145 min Scan# 2202

Delta R.T. 0.000 min

Lab File: VY019590.D

Acq: 17 Sep 2024 16:59

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 521   |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 3.6   | 10.6  | 16.0# |
| 129      | 0.0   | 8.6   | 13.0# |

