

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY031125\  
 Data File : VY021478.D  
 Acq On : 11 Mar 2025 12:01  
 Operator : SY/MD  
 Sample : Q1463-02  
 Misc : 6.31g/5.0mL/MSVOA\_Y/SOIL/B  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Mar 12 01:23:52 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y030425S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 05 12:42:45 2025  
 Response via : Initial Calibration

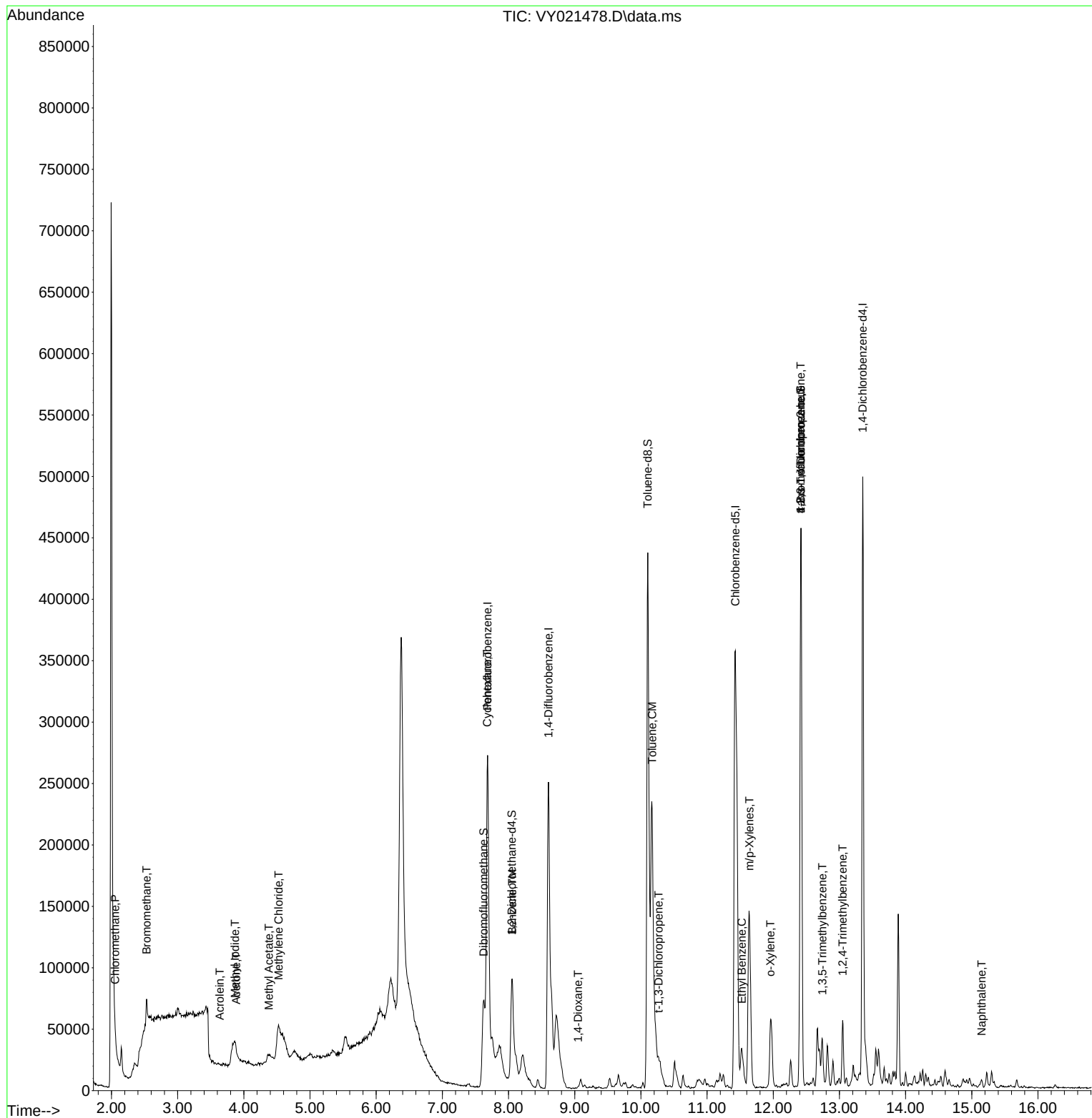
| Compound                      | R.T.           | QIon | Response   | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|-----------|--------|----------|
| -----                         |                |      |            |           |        |          |
| Internal Standards            |                |      |            |           |        |          |
| 1) Pentafluorobenzene         | 7.683          | 168  | 225927     | 50.000    | ug/l   | -0.03    |
| 34) 1,4-Difluorobenzene       | 8.603          | 114  | 333076     | 50.000    | ug/l   | -0.02    |
| 63) Chlorobenzene-d5          | 11.426         | 117  | 363901     | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.353         | 152  | 129475     | 50.000    | ug/l   | 0.00     |
|                               |                |      |            |           |        |          |
| System Monitoring Compounds   |                |      |            |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.049          | 65   | 90193      | 37.771    | ug/l   | -0.02    |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = | 75.540%   |        |          |
| 35) Dibromofluoromethane      | 7.622          | 113  | 66180      | 30.228    | ug/l   | -0.02    |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = | 60.460%   |        |          |
| 50) Toluene-d8                | 10.103         | 98   | 374156     | 45.136    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 134 |      | Recovery = | 90.280%   |        |          |
| 62) 4-Bromofluorobenzene      | 12.414         | 95   | 144941     | 51.401    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 30 - 143 |      | Recovery = | 102.800%  |        |          |
|                               |                |      |            |           |        |          |
| Target Compounds              |                |      |            |           |        | Qvalue   |
| 3) Chloromethane              | 2.056          | 50   | 7682       | 2.628     | ug/l   | 96       |
| 5) Bromomethane               | 2.531          | 94   | 10275      | 4.451     | ug/l   | 95       |
| 10) Methyl Iodide             | 3.866          | 142  | 28491      | 11.011    | ug/l   | 94       |
| 11) Tert butyl alcohol        | 4.927          | 59   | 456        | Below Cal | #      | 72       |
| 13) Acrolein                  | 3.635          | 56   | 192        | 1.581     | ug/l # | 1        |
| 16) Acetone                   | 3.885          | 43   | 1044       | 2.005     | ug/l # | 57       |
| 18) Methyl Acetate            | 4.379          | 43   | 18796      | 16.265    | ug/l # | 83       |
| 20) Methylene Chloride        | 4.525          | 84   | 17561      | 6.423     | ug/l   | 94       |
| 31) Cyclohexane               | 7.677          | 56   | 7133       | 1.595     | ug/l # | 35       |
| 40) Benzene                   | 8.055          | 78   | 32183      | 3.188     | ug/l   | 97       |
| 49) 1,4-Dioxane               | 9.048          | 88   | 51         | 3.887     | ug/l # | 1        |
| 52) Toluene                   | 10.170         | 92   | 50463      | 7.929     | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.268         | 75   | 10621      | 3.396     | ug/l # | 51       |
| 67) Ethyl Benzene             | 11.524         | 91   | 25136      | 1.667     | ug/l   | 94       |
| 68) m/p-Xylenes               | 11.639         | 106  | 63055      | 11.011    | ug/l   | 99       |
| 69) o-Xylene                  | 11.956         | 106  | 22273      | 4.220     | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 12.414         | 75   | 77796      | 59.628    | ug/l # | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.743         | 105  | 17440      | 2.104     | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.414         | 75   | 77796      | 135.552   | ug/l # | 9        |
| 84) 1,2,4-Trimethylbenzene    | 13.048         | 105  | 30286      | 3.680     | ug/l   | 99       |
| 95) Naphthalene               | 15.151         | 128  | 3892       | 2.557     | ug/l # | 87       |
| -----                         |                |      |            |           |        |          |

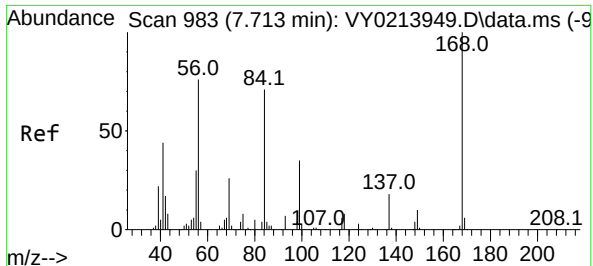
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY031125\  
Data File : VY021478.D  
Acq On : 11 Mar 2025 12:01  
Operator : SY/MD  
Sample : Q1463-02  
Misc : 6.31g/5.0mL/MSVOA\_Y/SOIL/B  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :

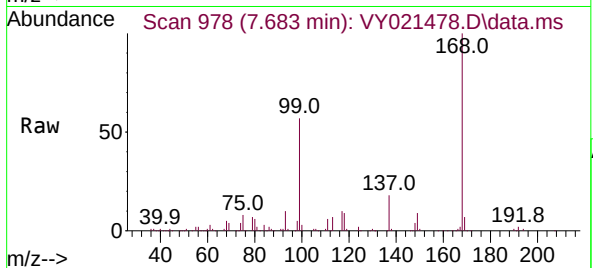
Quant Time: Mar 12 01:23:52 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y030425S.M  
Quant Title : SW846 8260  
QLast Update : Wed Mar 05 12:42:45 2025  
Response via : Initial Calibration



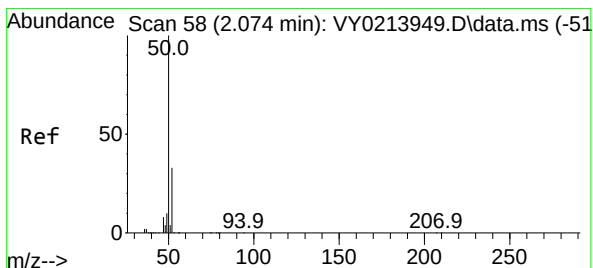
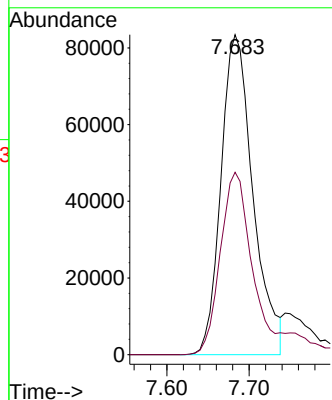
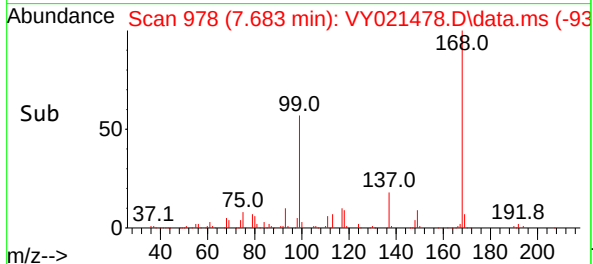


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.683 min Scan# 91  
Delta R.T. -0.030 min  
Lab File: VY021478.D  
Acq: 11 Mar 2025 12:01

Instrument :  
MSVOA\_Y  
ClientSampleId :

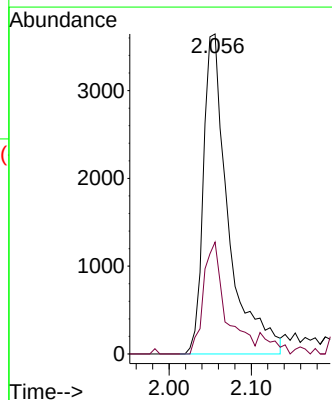
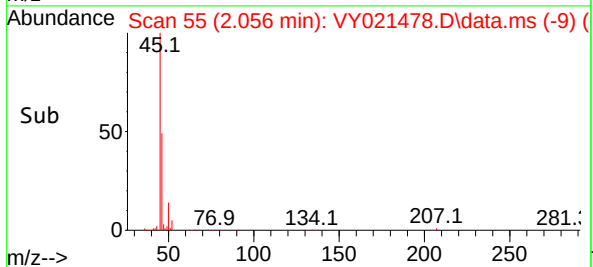
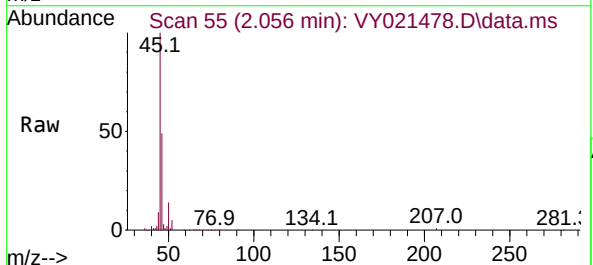


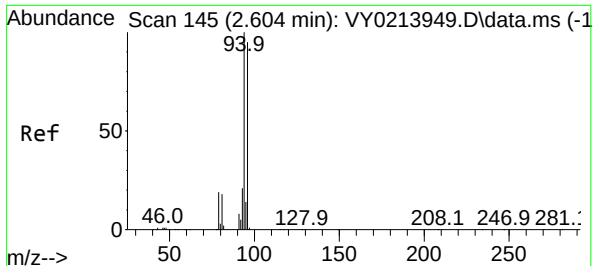
Tgt Ion:168 Resp: 225927  
Ion Ratio Lower Upper  
168 100  
99 57.0 46.0 69.0



#3  
Chloromethane  
Concen: 2.628 ug/l  
RT: 2.056 min Scan# 55  
Delta R.T. -0.018 min  
Lab File: VY021478.D  
Acq: 11 Mar 2025 12:01

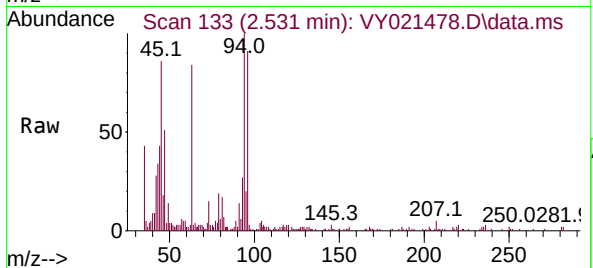
Tgt Ion: 50 Resp: 7682  
Ion Ratio Lower Upper  
50 100  
52 35.0 26.2 39.2



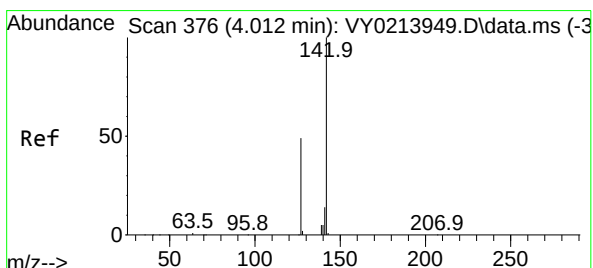
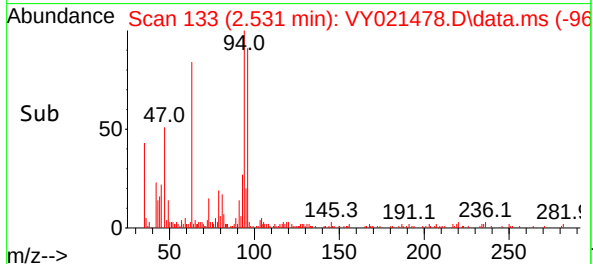
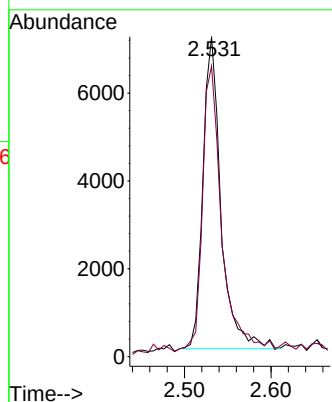


#5  
Bromomethane  
Concen: 4.451 ug/l  
RT: 2.531 min Scan# 11  
Delta R.T. -0.073 min  
Lab File: VY021478.D  
Acq: 11 Mar 2025 12:01

Instrument :  
MSVOA\_Y  
ClientSampleId :

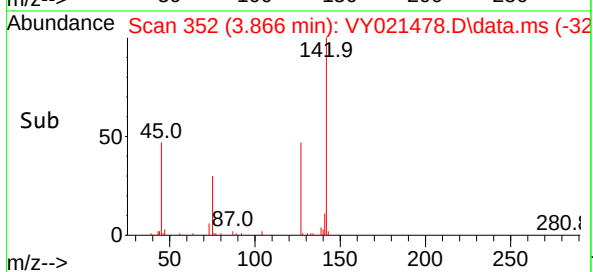
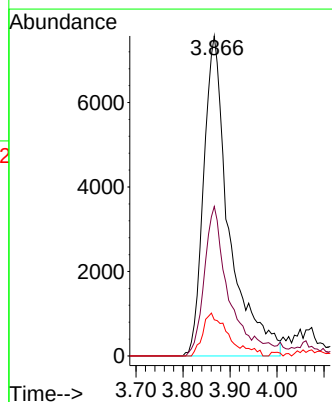
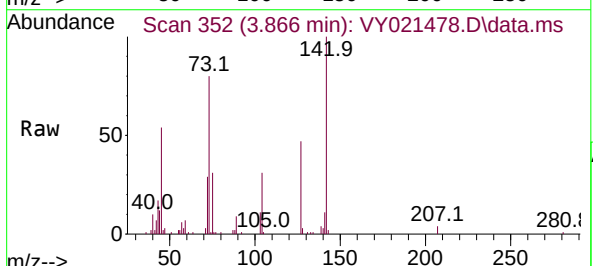


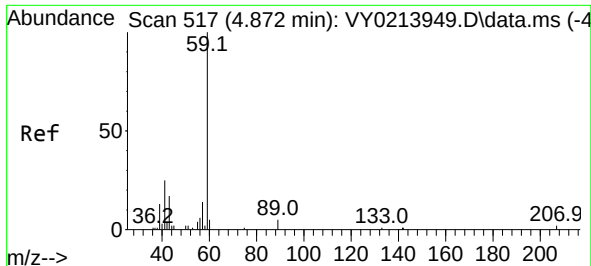
Tgt Ion: 94 Resp: 10275  
Ion Ratio Lower Upper  
94 100  
96 90.5 76.3 114.5



#10  
Methyl Iodide  
Concen: 11.011 ug/l  
RT: 3.866 min Scan# 352  
Delta R.T. -0.146 min  
Lab File: VY021478.D  
Acq: 11 Mar 2025 12:01

Tgt Ion: 142 Resp: 28491  
Ion Ratio Lower Upper  
142 100  
127 45.3 39.1 58.7  
141 12.1 11.8 17.6





#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.927 min Scan# 51

Delta R.T. 0.055 min

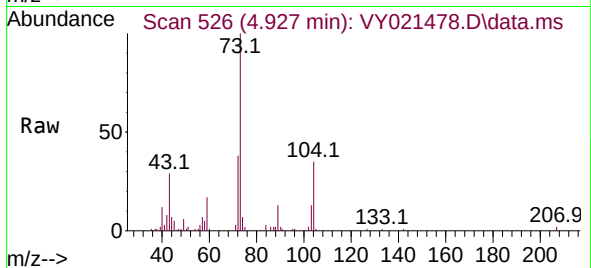
Lab File: VY021478.D

Acq: 11 Mar 2025 12:01

Instrument :

MSVOA\_Y

ClientSampleId :

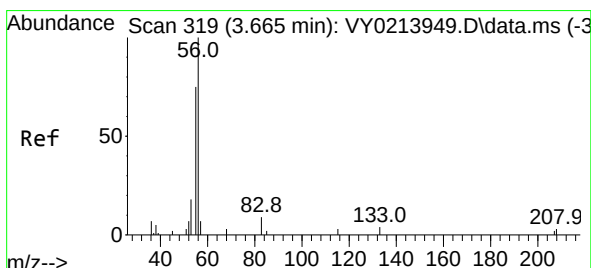
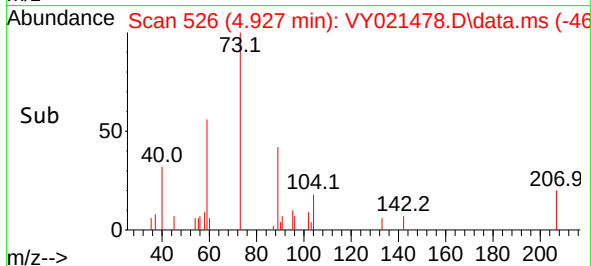
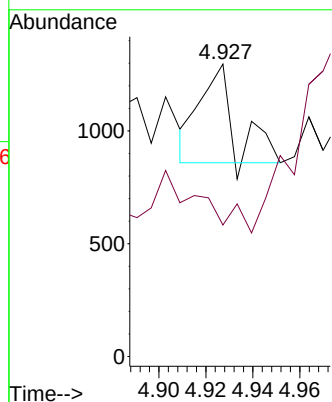


Tgt Ion: 59 Resp: 456

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



#13

Acrolein

Concen: 1.581 ug/l

RT: 3.635 min Scan# 314

Delta R.T. -0.030 min

Lab File: VY021478.D

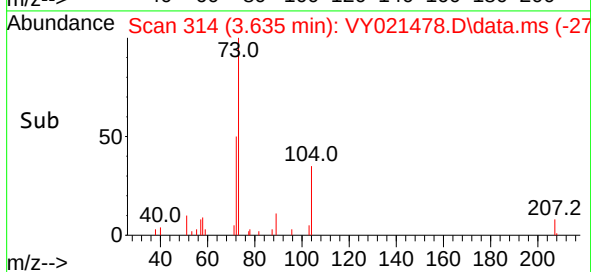
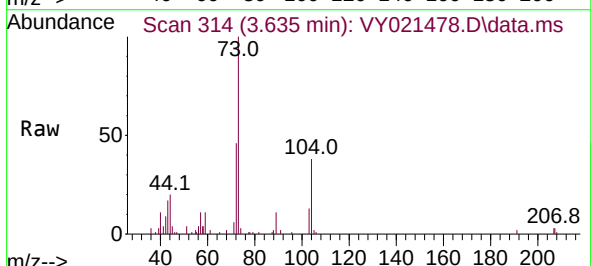
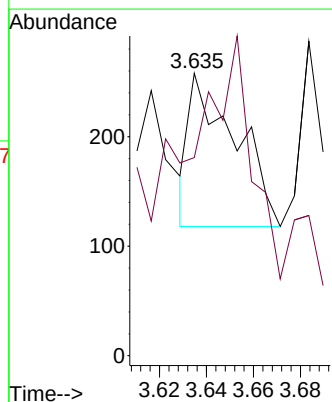
Acq: 11 Mar 2025 12:01

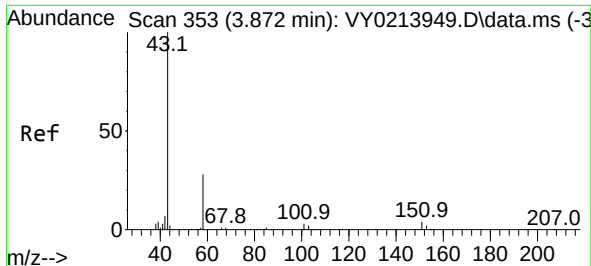
Tgt Ion: 56 Resp: 192

Ion Ratio Lower Upper

56 100

55 200.0 63.4 95.2#

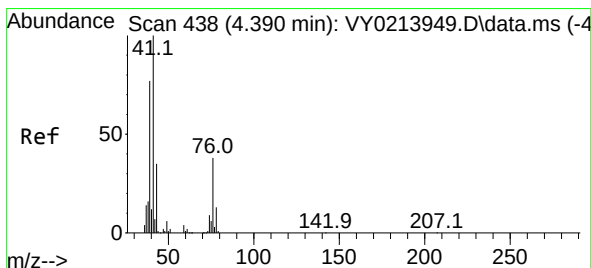
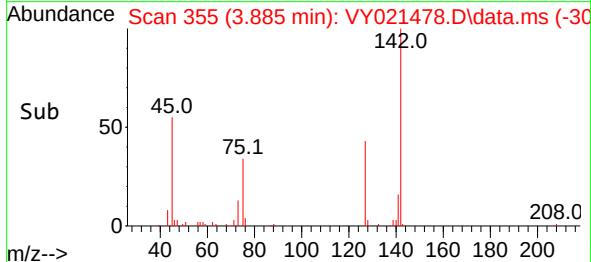
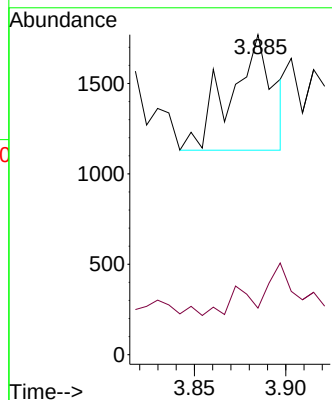
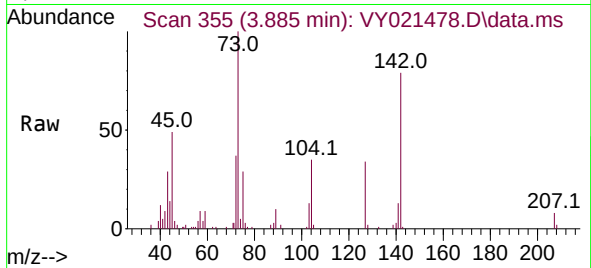




#16  
Acetone  
Concen: 2.005 ug/l  
RT: 3.885 min Scan# 31  
Delta R.T. 0.013 min  
Lab File: VY021478.D  
Acq: 11 Mar 2025 12:01

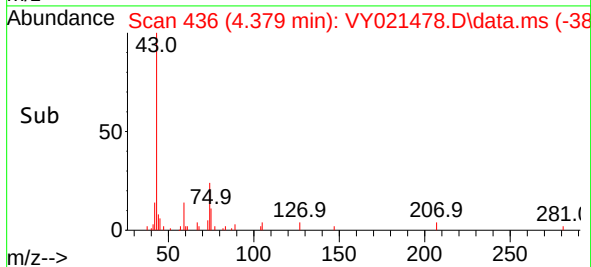
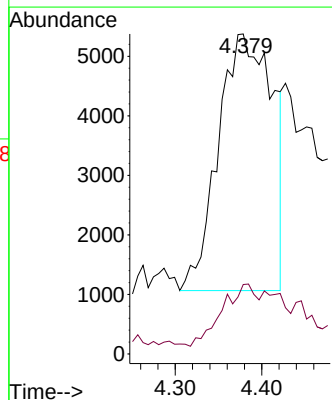
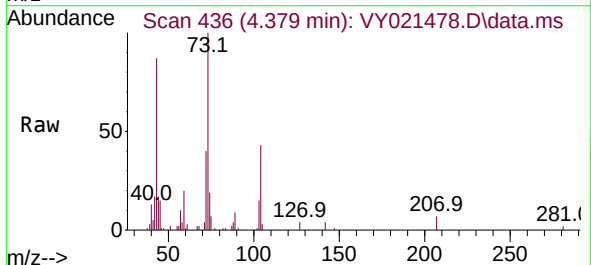
Instrument :  
MSVOA\_Y  
ClientSampleId :

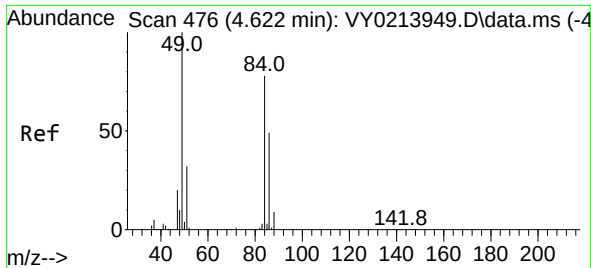
Tgt Ion: 43 Resp: 1044  
Ion Ratio Lower Upper  
43 100  
58 5.0 22.1 33.1#



#18  
Methyl Acetate  
Concen: 16.265 ug/l  
RT: 4.379 min Scan# 436  
Delta R.T. -0.012 min  
Lab File: VY021478.D  
Acq: 11 Mar 2025 12:01

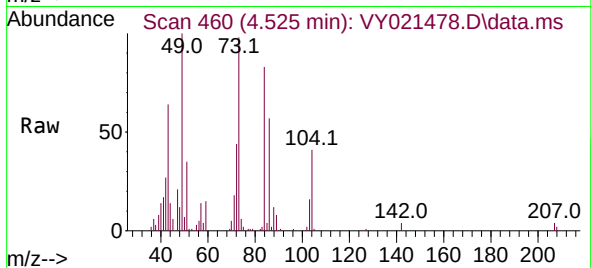
Tgt Ion: 43 Resp: 18796  
Ion Ratio Lower Upper  
43 100  
74 15.7 19.4 29.0#



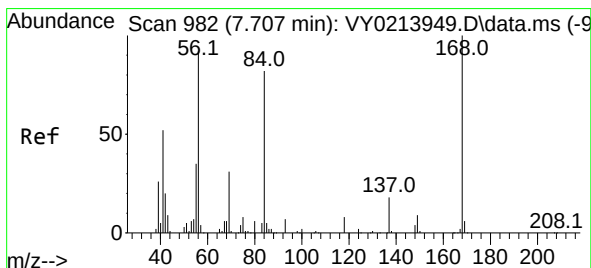
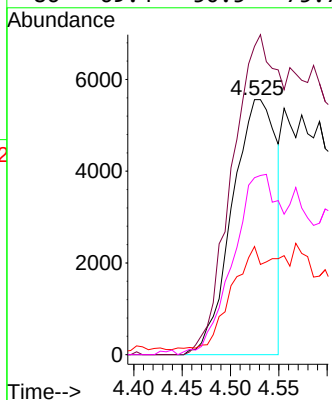
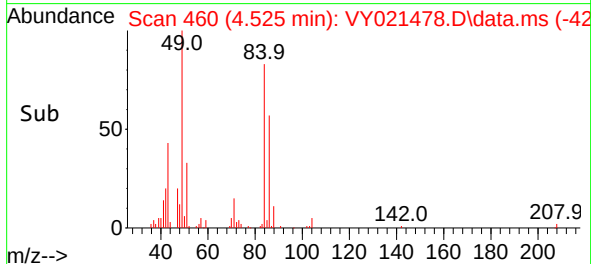


#20  
Methylene Chloride  
Concen: 6.423 ug/l  
RT: 4.525 min Scan# 4  
Delta R.T. -0.097 min  
Lab File: VY021478.D  
Acq: 11 Mar 2025 12:01

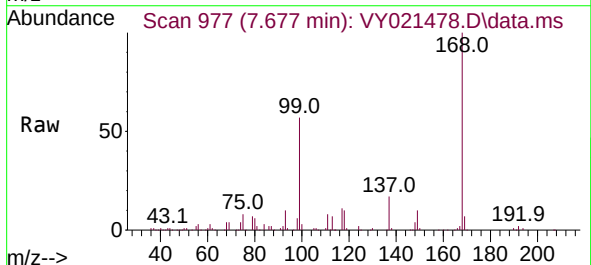
Instrument :  
MSVOA\_Y  
ClientSampleId :



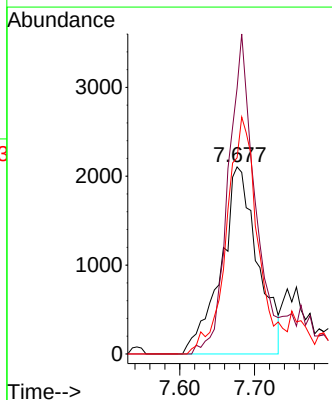
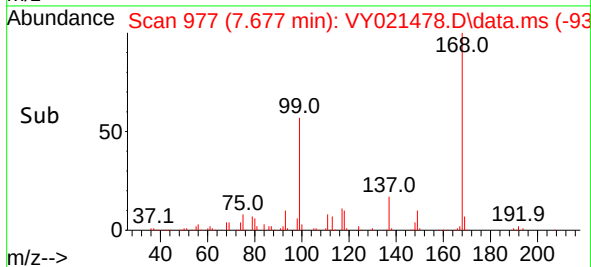
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 17561 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 120.9 | 102.0 | 153.0 |
| 51       | 39.7  | 33.0  | 49.6  |
| 86       | 69.4  | 50.5  | 75.7  |

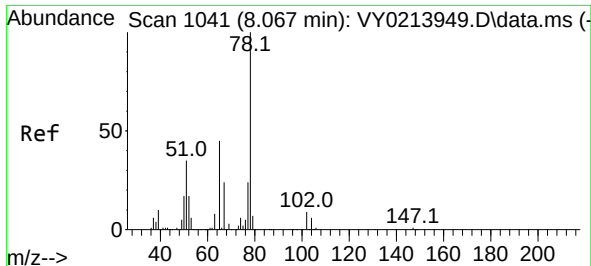


#31  
Cyclohexane  
Concen: 1.595 ug/l  
RT: 7.677 min Scan# 977  
Delta R.T. -0.030 min  
Lab File: VY021478.D  
Acq: 11 Mar 2025 12:01



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 56    | Resp: | 7133  |
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 69       | 142.0 | 27.0  | 40.4# |
| 84       | 104.9 | 71.1  | 106.7 |





#33

1,2-Dichloroethane-d4

Concen: 37.771 ug/l

RT: 8.049 min Scan# 110

Delta R.T. -0.018 min

Lab File: VY021478.D

Acq: 11 Mar 2025 12:01

Instrument :

MSVOA\_Y

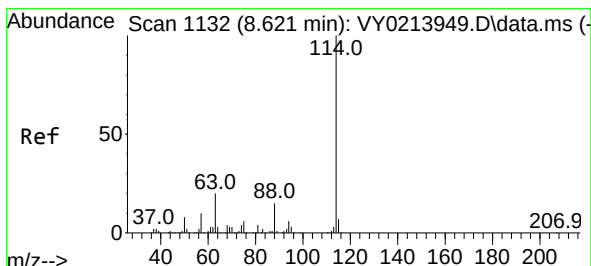
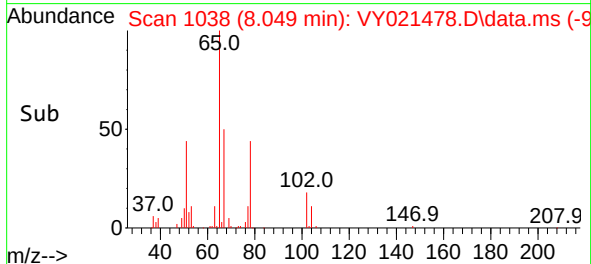
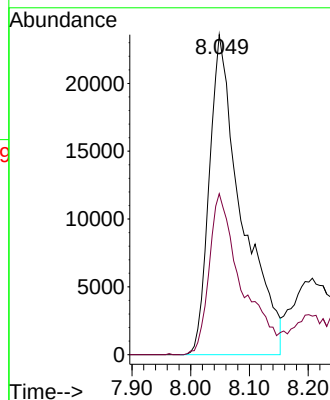
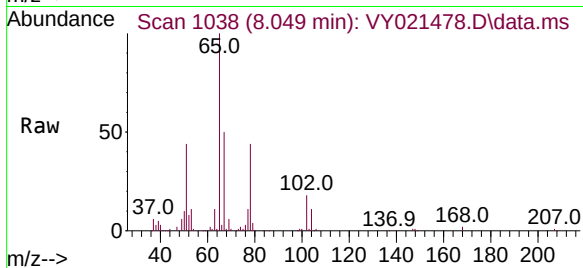
ClientSampleId :

Tgt Ion: 65 Resp: 90193

Ion Ratio Lower Upper

65 100

67 50.7 0.0 102.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.603 min Scan# 1129

Delta R.T. -0.018 min

Lab File: VY021478.D

Acq: 11 Mar 2025 12:01

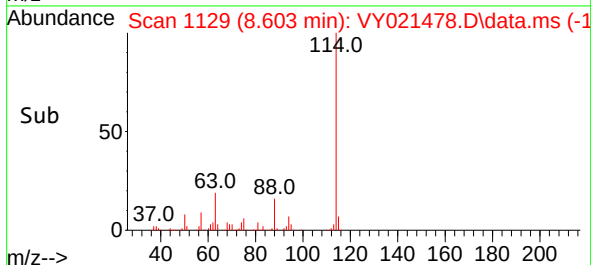
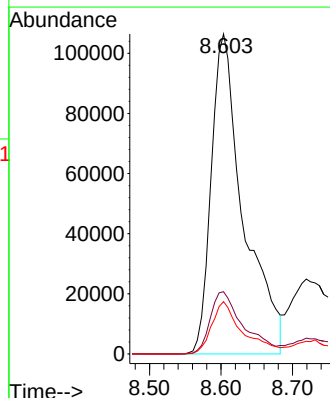
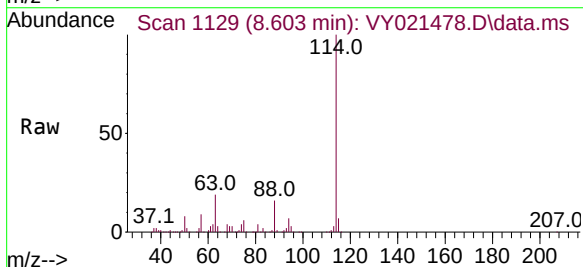
Tgt Ion: 114 Resp: 333076

Ion Ratio Lower Upper

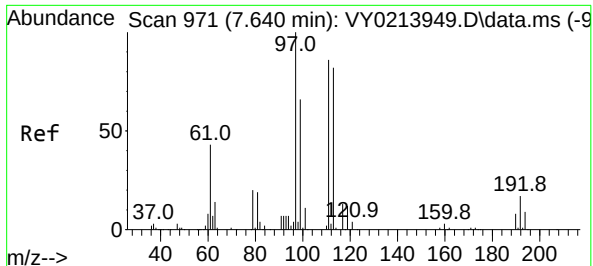
114 100

63 19.4 0.0 40.8

88 16.3 0.0 30.8

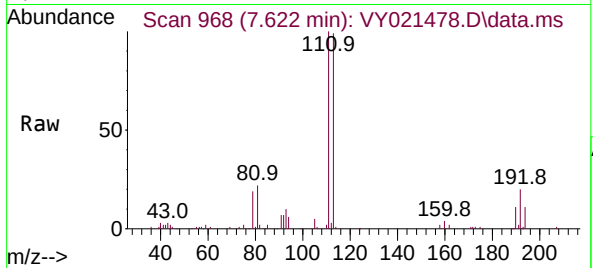




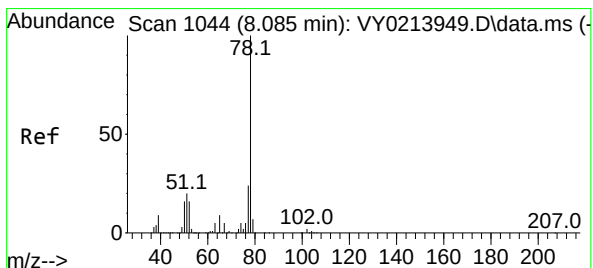
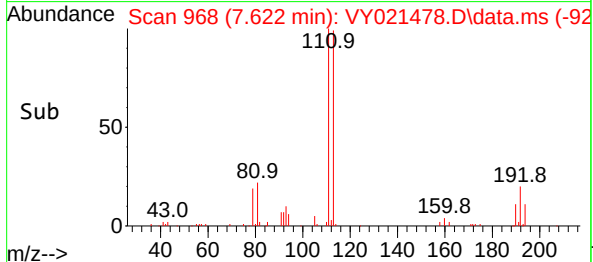
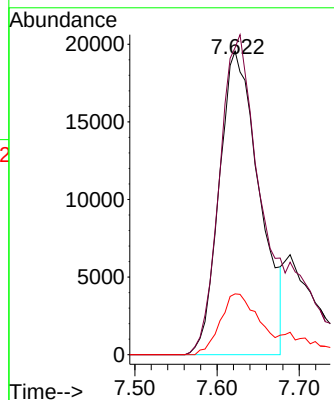


#35  
 Dibromofluoromethane  
 Concen: 30.228 ug/l  
 RT: 7.622 min Scan# 91  
 Delta R.T. -0.018 min  
 Lab File: VY021478.D  
 Acq: 11 Mar 2025 12:01

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

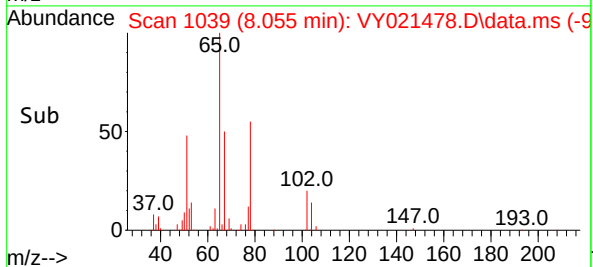
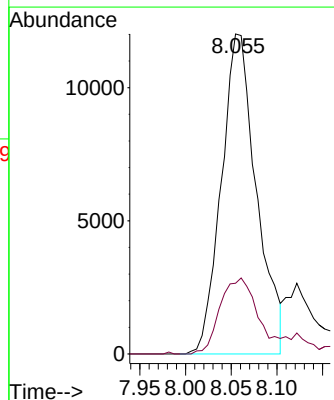
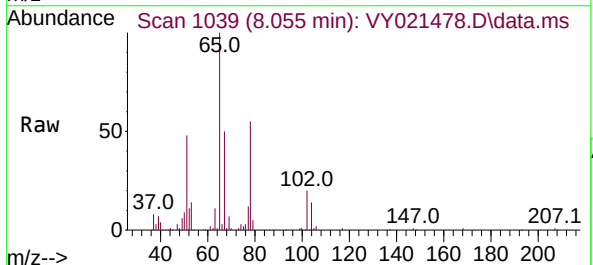


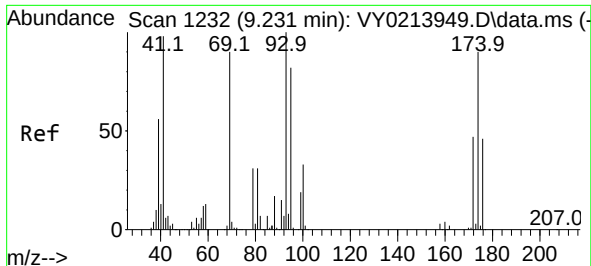
Tgt Ion:113 Resp: 66180  
 Ion Ratio Lower Upper  
 113 100  
 111 126.8 82.0 123.0#  
 192 19.2 15.9 23.9



#40  
 Benzene  
 Concen: 3.188 ug/l  
 RT: 8.055 min Scan# 1039  
 Delta R.T. -0.030 min  
 Lab File: VY021478.D  
 Acq: 11 Mar 2025 12:01

Tgt Ion: 78 Resp: 32183  
 Ion Ratio Lower Upper  
 78 100  
 77 22.1 19.0 28.4





#49

1,4-Dioxane

Concen: 3.887 ug/l

RT: 9.048 min Scan# 11

Delta R.T. -0.183 min

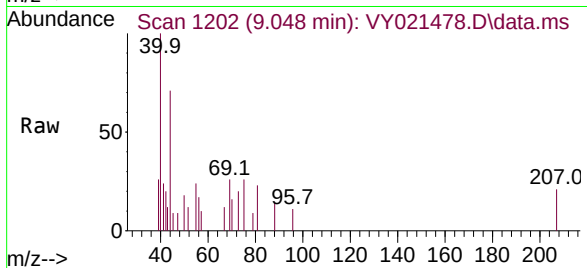
Lab File: VY021478.D

Acq: 11 Mar 2025 12:01

Instrument :

MSVOA\_Y

ClientSampleId :



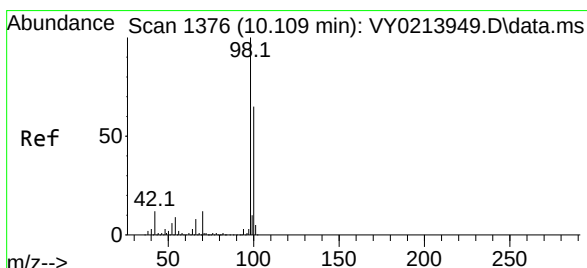
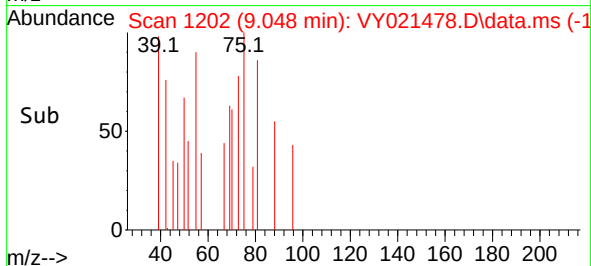
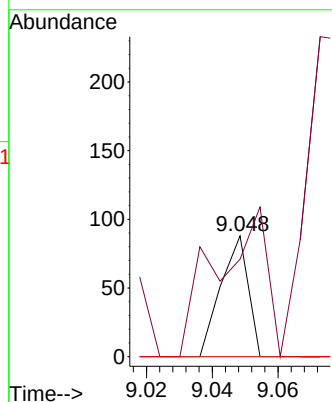
Tgt Ion: 88 Resp: 51

Ion Ratio Lower Upper

88 100

43 225.5 25.0 37.4#

58 0.0 58.4 87.6#



#50

Toluene-d8

Concen: 45.136 ug/l

RT: 10.103 min Scan# 1375

Delta R.T. -0.006 min

Lab File: VY021478.D

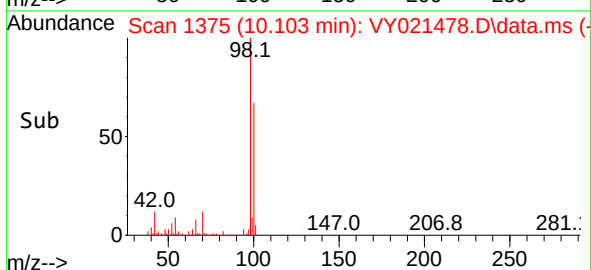
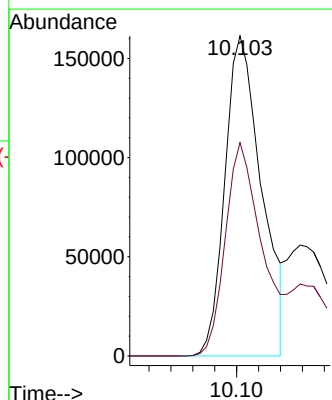
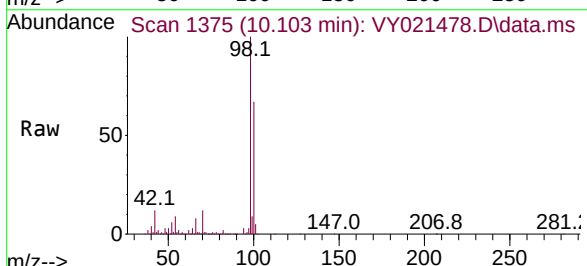
Acq: 11 Mar 2025 12:01

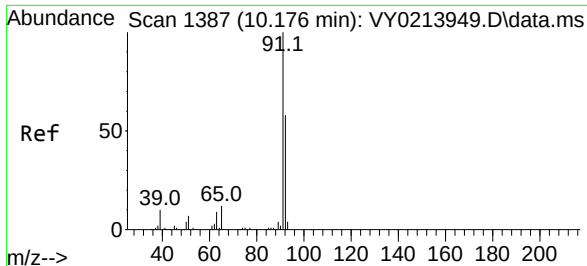
Tgt Ion: 98 Resp: 374156

Ion Ratio Lower Upper

98 100

100 68.6 52.1 78.1

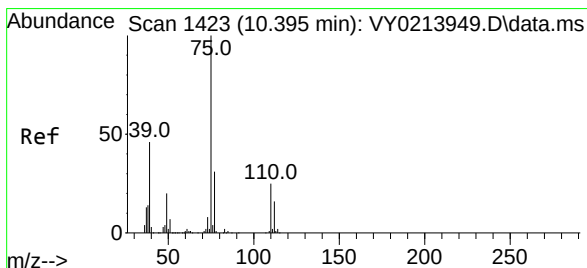
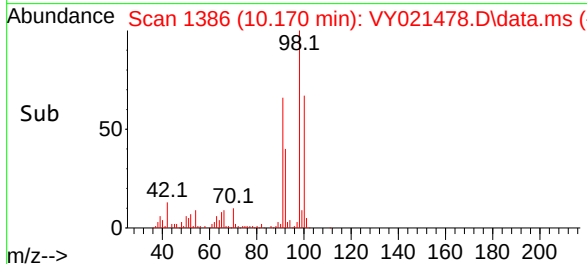
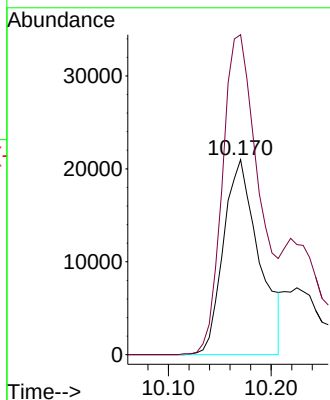
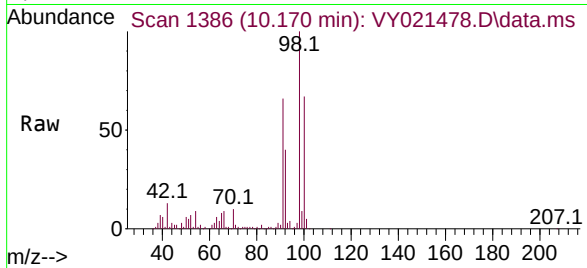




#52  
Toluene  
Concen: 7.929 ug/l  
RT: 10.170 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VY021478.D  
Acq: 11 Mar 2025 12:01

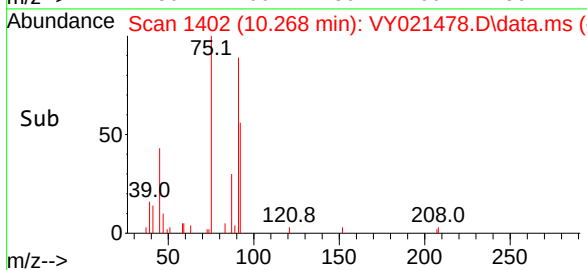
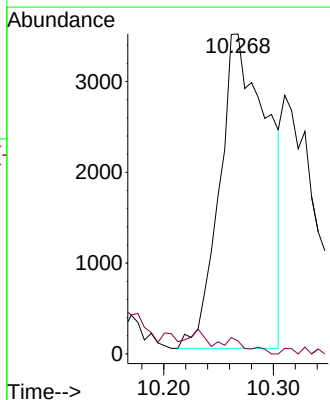
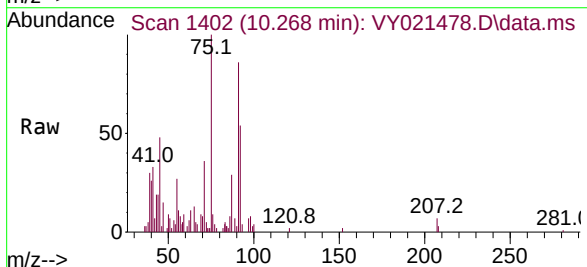
Instrument :  
MSVOA\_Y  
ClientSampleId :

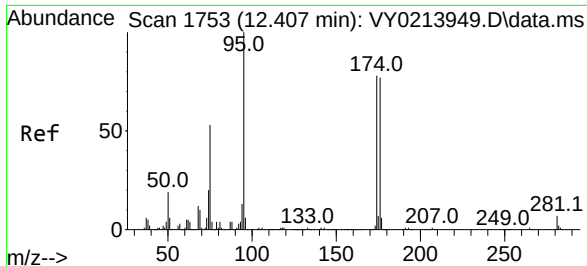
Tgt Ion: 92 Resp: 50463  
Ion Ratio Lower Upper  
92 100  
91 170.5 138.2 207.2



#53  
t-1,3-Dichloropropene  
Concen: 3.396 ug/l  
RT: 10.268 min Scan# 1402  
Delta R.T. -0.128 min  
Lab File: VY021478.D  
Acq: 11 Mar 2025 12:01

Tgt Ion: 75 Resp: 10621  
Ion Ratio Lower Upper  
75 100  
77 4.1 25.0 37.6#

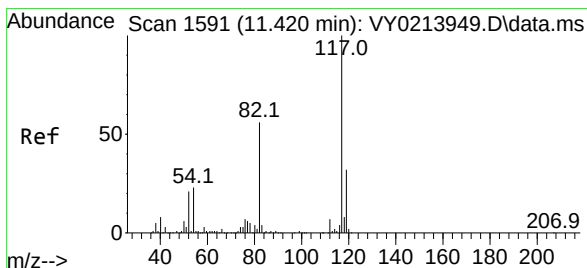
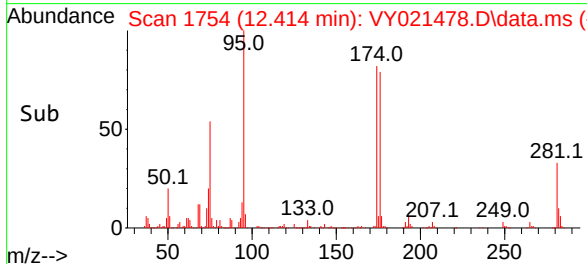
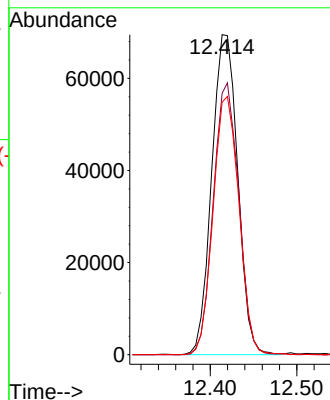
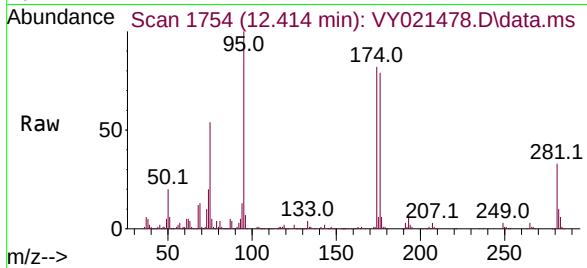




#62  
4-Bromofluorobenzene  
Concen: 51.401 ug/l  
RT: 12.414 min Scan# 1754  
Delta R.T. 0.006 min  
Lab File: VY021478.D  
Acq: 11 Mar 2025 12:01

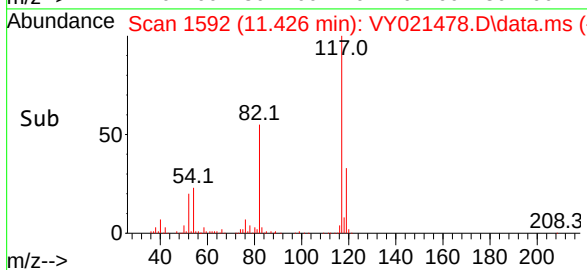
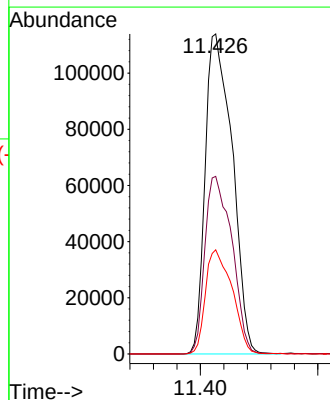
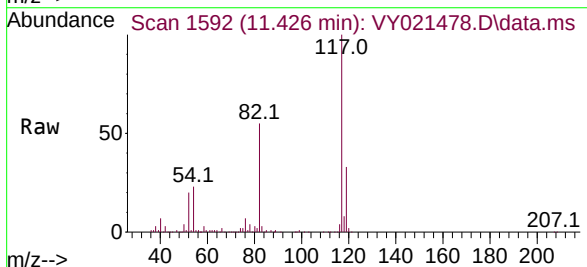
Instrument :  
MSVOA\_Y  
ClientSampleId :

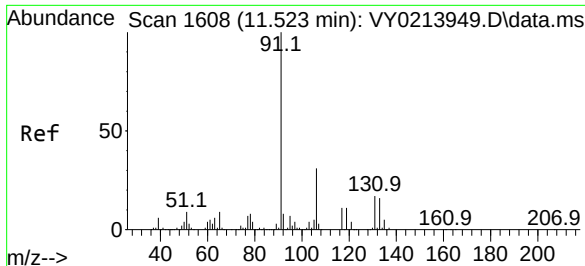
Tgt Ion: 95 Resp: 144941  
Ion Ratio Lower Upper  
95 100  
174 83.2 0.0 165.0  
176 80.4 0.0 160.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.426 min Scan# 1592  
Delta R.T. 0.006 min  
Lab File: VY021478.D  
Acq: 11 Mar 2025 12:01

Tgt Ion: 117 Resp: 363901  
Ion Ratio Lower Upper  
117 100  
82 55.5 44.6 67.0  
119 32.5 25.4 38.0

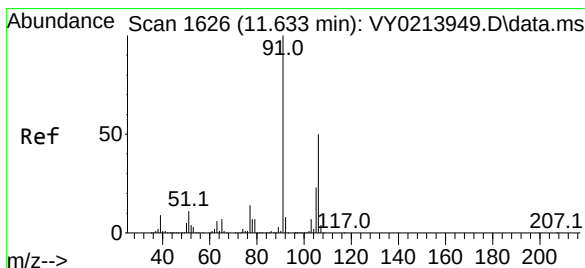
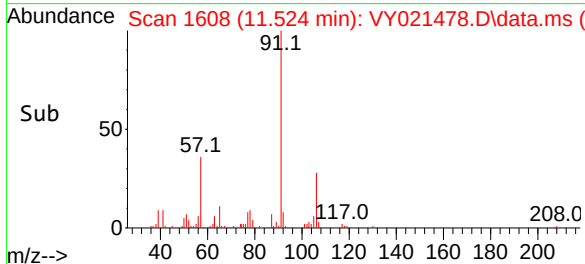
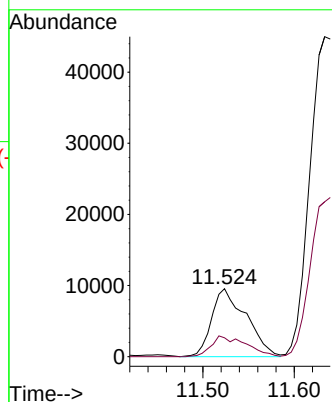
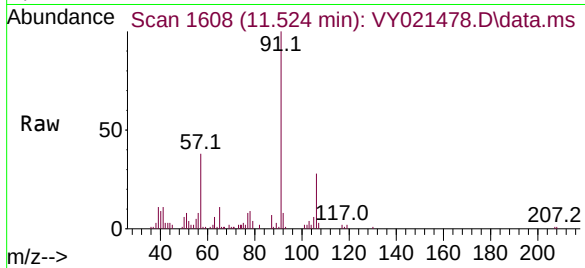




#67  
Ethyl Benzene  
Concen: 1.667 ug/l  
RT: 11.524 min Scan# 1608  
Delta R.T. 0.000 min  
Lab File: VY021478.D  
Acq: 11 Mar 2025 12:01

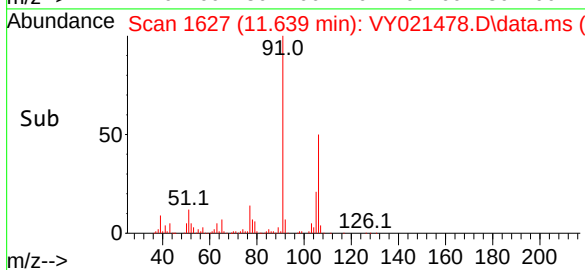
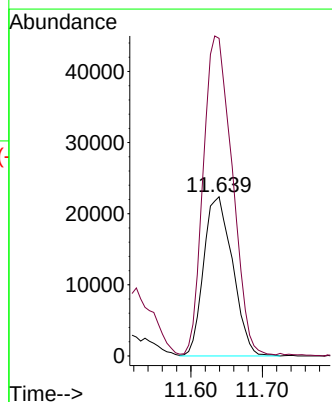
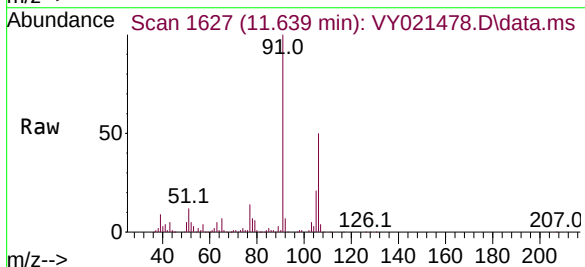
Instrument :  
MSVOA\_Y  
ClientSampleId :

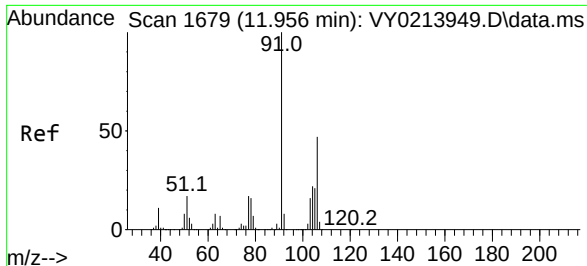
Tgt Ion: 91 Resp: 25136  
Ion Ratio Lower Upper  
91 100  
106 27.7 24.6 36.8



#68  
m/p-Xylenes  
Concen: 11.011 ug/l  
RT: 11.639 min Scan# 1627  
Delta R.T. 0.006 min  
Lab File: VY021478.D  
Acq: 11 Mar 2025 12:01

Tgt Ion: 106 Resp: 63055  
Ion Ratio Lower Upper  
106 100  
91 199.9 161.7 242.5

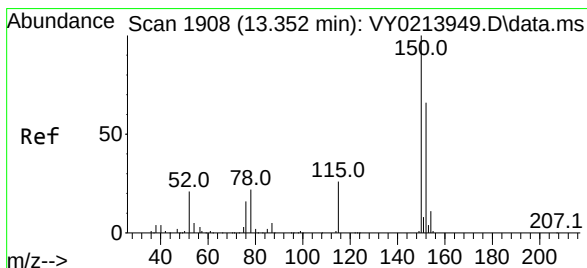
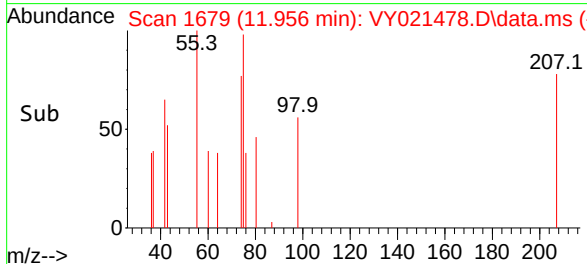
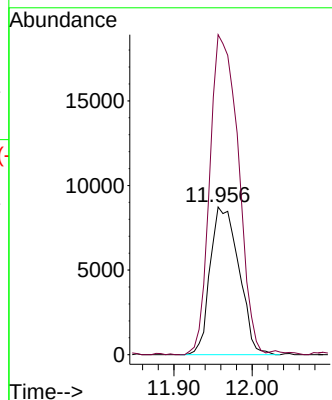
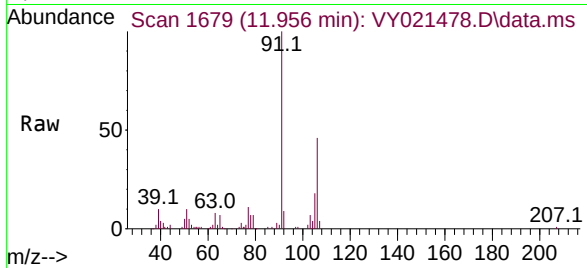




#69  
o-Xylene  
Concen: 4.220 ug/l  
RT: 11.956 min Scan# 1679  
Delta R.T. 0.000 min  
Lab File: VY021478.D  
Acq: 11 Mar 2025 12:01

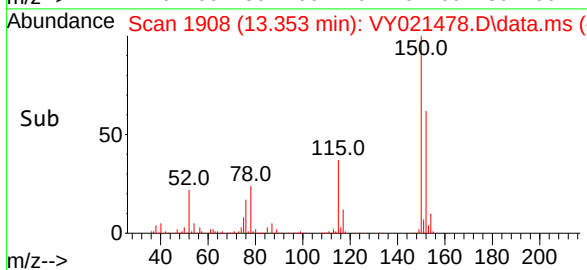
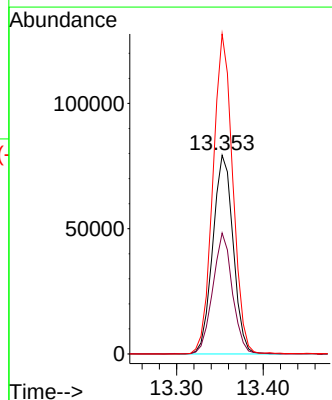
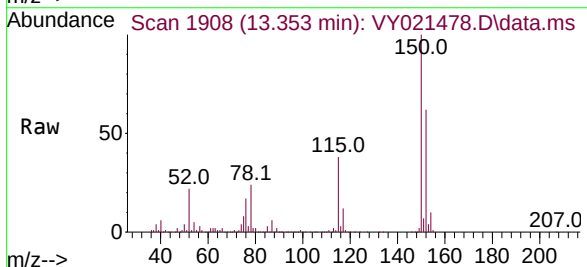
Instrument :  
MSVOA\_Y  
ClientSampleId :

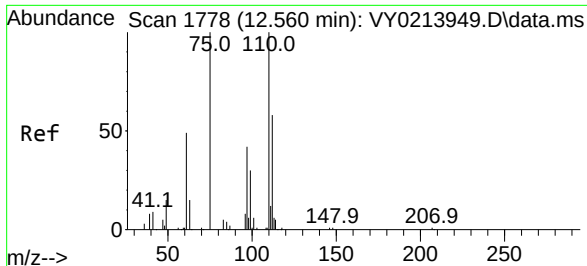
Tgt Ion:106 Resp: 22273  
Ion Ratio Lower Upper  
106 100  
91 214.7 107.6 322.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.353 min Scan# 1908  
Delta R.T. 0.000 min  
Lab File: VY021478.D  
Acq: 11 Mar 2025 12:01

Tgt Ion:152 Resp: 129475  
Ion Ratio Lower Upper  
152 100  
115 59.0 29.0 87.0  
150 156.6 0.0 347.2

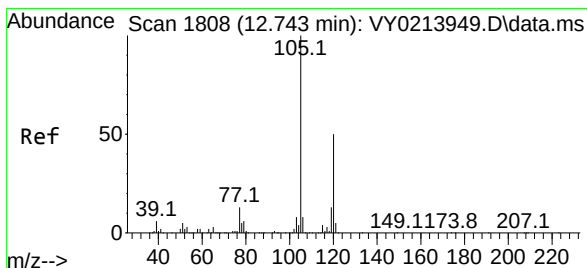
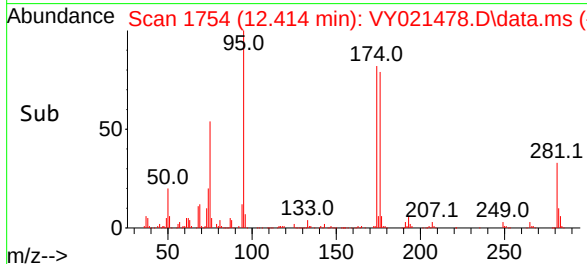
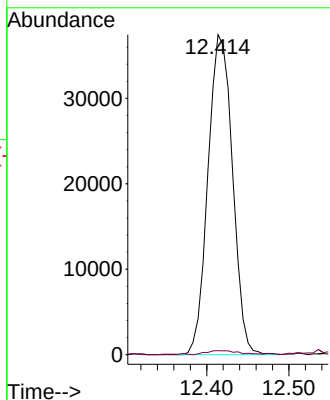
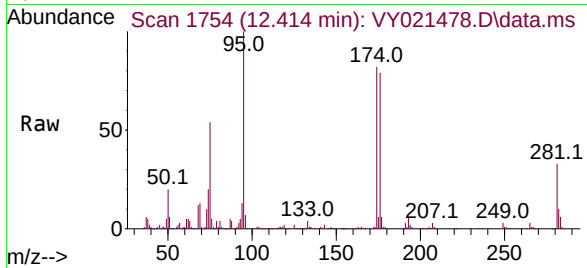




#76  
1,2,3-Trichloropropane  
Concen: 59.628 ug/l  
RT: 12.414 min Scan# 1754  
Delta R.T. -0.146 min  
Lab File: VY021478.D  
Acq: 11 Mar 2025 12:01

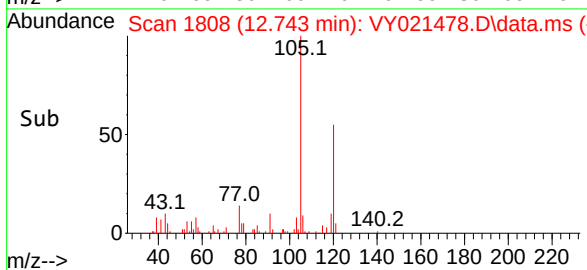
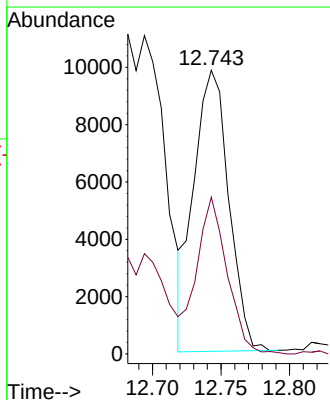
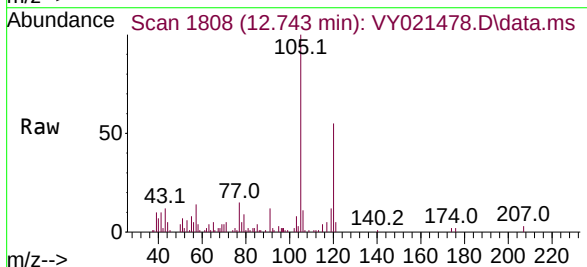
Instrument :  
MSVOA\_Y  
ClientSampleId :

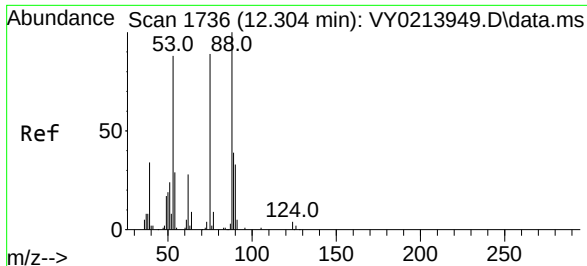
Tgt Ion: 75 Resp: 77796  
Ion Ratio Lower Upper  
75 100  
77 1.7 0.0 0.0#



#80  
1,3,5-Trimethylbenzene  
Concen: 2.104 ug/l  
RT: 12.743 min Scan# 1808  
Delta R.T. 0.000 min  
Lab File: VY021478.D  
Acq: 11 Mar 2025 12:01

Tgt Ion: 105 Resp: 17440  
Ion Ratio Lower Upper  
105 100  
120 49.0 24.6 73.6

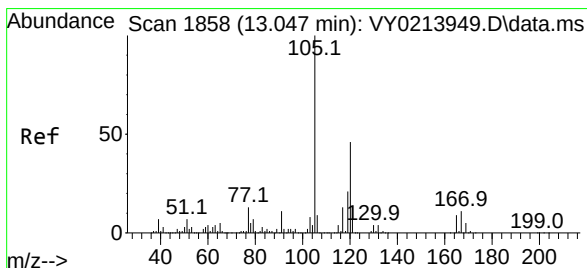
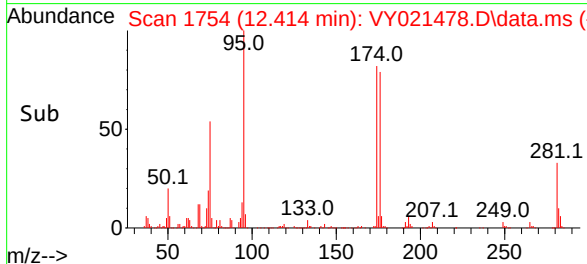
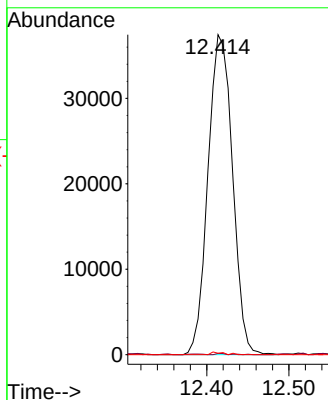
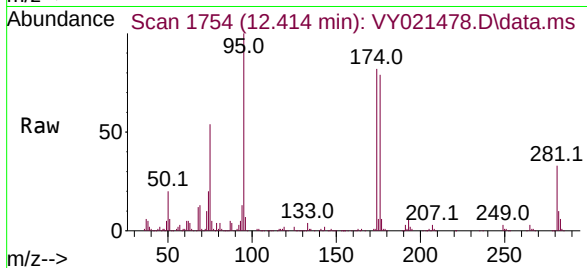




#81  
trans-1,4-Dichloro-2-butene  
Concen: 135.552 ug/l  
RT: 12.414 min Scan# 1754  
Delta R.T. 0.110 min  
Lab File: VY021478.D  
Acq: 11 Mar 2025 12:01

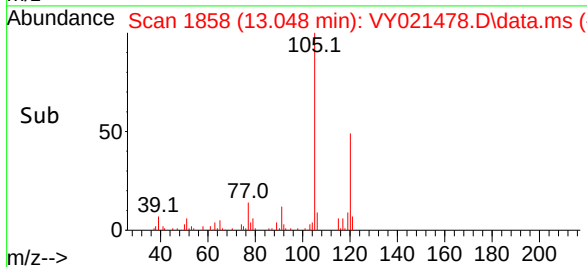
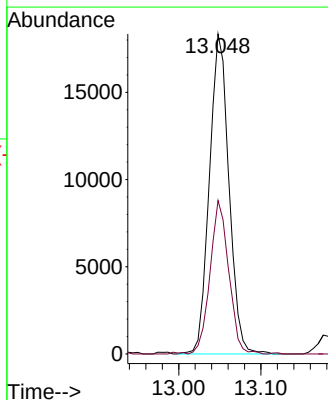
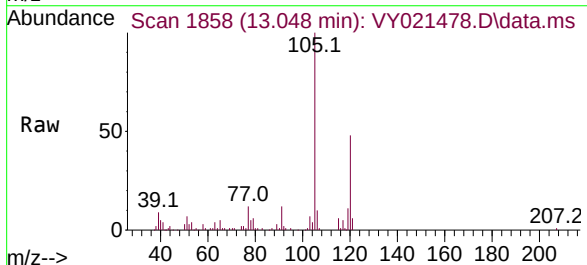
Instrument :  
MSVOA\_Y  
ClientSampleId :

Tgt Ion: 75 Resp: 77796  
Ion Ratio Lower Upper  
75 100  
53 0.2 81.0 121.4#  
89 0.4 36.9 55.3#

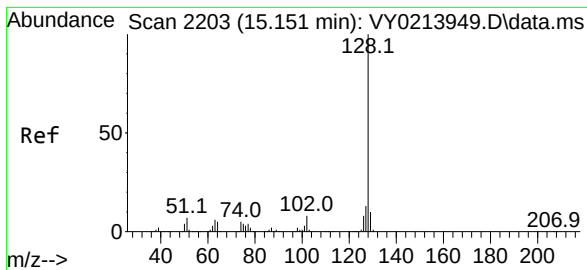


#84  
1,2,4-Trimethylbenzene  
Concen: 3.680 ug/l  
RT: 13.048 min Scan# 1858  
Delta R.T. 0.000 min  
Lab File: VY021478.D  
Acq: 11 Mar 2025 12:01

Tgt Ion:105 Resp: 30286  
Ion Ratio Lower Upper  
105 100  
120 45.8 22.7 68.1

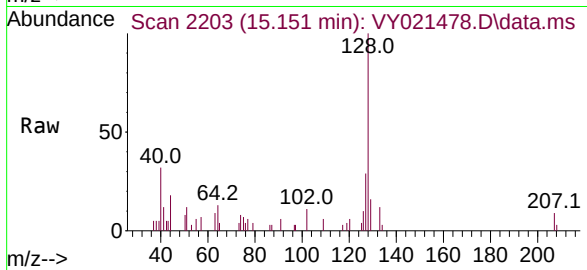






#95  
 Naphthalene  
 Concen: 2.557 ug/l  
 RT: 15.151 min Scan# 21  
 Delta R.T. 0.000 min  
 Lab File: VY021478.D  
 Acq: 11 Mar 2025 12:01

Instrument :  
 MSVOA\_Y  
 ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 3892  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 19.5  | 10.6  | 15.8# |
| 129      | 14.2  | 8.6   | 13.0# |

