

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY102824\  
 Data File : VY020033.D  
 Acq On : 28 Oct 2024 11:56  
 Operator : SY/MD  
 Sample : P4578-03  
 Misc : 5.99g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Oct 29 01:55:32 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y100924S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 16 05:44:48 2024  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.713  | 168  | 27473    | 50.000 | ug/l  | # 0.00   |
| 34) 1,4-Difluorobenzene    | 8.622  | 114  | 45281    | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.420 | 117  | 32489    | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.359 | 152  | 8668     | 50.000 | ug/l  | 0.01     |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 33) 1,2-Dichloroethane-d4   | 8.067  | 65    | 13554    | 40.068   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 80.140% |
| 35) Dibromofluoromethane    | 7.646  | 113   | 13741    | 45.987   | ug/l | 0.01    |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 91.980% |
| 50) Toluene-d8              | 10.109 | 98    | 51954    | 47.083   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 58 - 134 | Recovery | =    | 94.160% |
| 62) 4-Bromofluorobenzene    | 12.414 | 95    | 11497    | 28.836   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 29 - 146 | Recovery | =    | 57.680% |

|                               |        |     |        |           |        |     |
|-------------------------------|--------|-----|--------|-----------|--------|-----|
| Target Compounds              |        |     | Qvalue |           |        |     |
| 3) Chloromethane              | 2.080  | 50  | 382    | 1.148     | ug/l # | 83  |
| 5) Bromomethane               | 2.617  | 94  | 528    | 2.277     | ug/l # | 39  |
| 11) Tert butyl alcohol        | 4.872  | 59  | 110    | Below Cal | #      | 88  |
| 13) Acrolein                  | 3.665  | 56  | 47     | 1.891     | ug/l # | 77  |
| 16) Acetone                   | 3.873  | 43  | 4573   | 51.932    | ug/l # | 85  |
| 17) Carbon Disulfide          | 4.104  | 76  | 2195   | 2.779     | ug/l # | 76  |
| 18) Methyl Acetate            | 4.397  | 43  | 6622   | 34.909    | ug/l # | 82  |
| 20) Methylene Chloride        | 4.622  | 84  | 1521   | 3.932     | ug/l # | 79  |
| 22) Diisopropyl ether         | 6.025  | 45  | 1650   | 1.424     | ug/l # | 77  |
| 23) Vinyl Acetate             | 6.018  | 43  | 735    | 1.107     | ug/l # | 67  |
| 25) 2-Butanone                | 6.902  | 43  | 1407   | 11.937    | ug/l   | 96  |
| 29) Tetrahydrofuran           | 7.256  | 42  | 270    | 4.012     | ug/l # | 34  |
| 31) Cyclohexane               | 7.719  | 56  | 962    | 1.702     | ug/l # | 84  |
| 36) 1,1-Dichloropropene       | 7.719  | 75  | 2686   | 6.240     | ug/l # | 44  |
| 38) Carbon Tetrachloride      | 7.719  | 117 | 3436   | 7.445     | ug/l # | 19  |
| 39) Methylcyclohexane         | 9.115  | 83  | 802    | 1.479     | ug/l # | 58  |
| 41) Methacrylonitrile         | 7.238  | 41  | 133    | 1.095     | ug/l # | 15  |
| 48) Methyl methacrylate       | 9.237  | 41  | 219    | 1.088     | ug/l # | 7   |
| 49) 1,4-Dioxane               | 9.225  | 88  | 253    | 126.879   | ug/l # | 85  |
| 52) Toluene                   | 10.176 | 92  | 10672  | 13.123    | ug/l   | 90  |
| 55) 1,1,2-Trichloroethane     | 10.554 | 97  | 511    | 2.177     | ug/l # | 16  |
| 59) 2-Hexanone                | 10.573 | 43  | 254    | 1.523     | ug/l   | 68  |
| 67) Ethyl Benzene             | 11.524 | 91  | 1351   | 1.001     | ug/l   | 92  |
| 68) m/p-Xylenes               | 11.633 | 106 | 1668   | 3.346     | ug/l   | 83  |
| 69) o-Xylene                  | 11.950 | 106 | 1659   | 3.463     | ug/l   | 92  |
| 73) Isopropylbenzene          | 12.255 | 105 | 3314   | 4.545     | ug/l   | 92  |
| 74) N-amyl acetate            | 12.054 | 43  | 1141   | 5.909     | ug/l # | 63  |
| 76) 1,2,3-Trichloropropane    | 12.408 | 75  | 7099   | 41.807    | ug/l # | 100 |
| 78) n-propylbenzene           | 12.590 | 91  | 1513   | 1.717     | ug/l   | 93  |
| 79) 2-Chlorotoluene           | 12.786 | 91  | 857    | 1.697     | ug/l   | 92  |
| 80) 1,3,5-Trimethylbenzene    | 12.737 | 105 | 3600   | 6.114     | ug/l   | 83  |
| 81) trans-1,4-Dichloro-2-b... | 12.408 | 75  | 7099   | 168.748   | ug/l # | 17  |
| 82) 4-Chlorotoluene           | 12.786 | 91  | 857    | 1.659     | ug/l   | 93  |
| 84) 1,2,4-Trimethylbenzene    | 13.048 | 105 | 17995  | 30.825    | ug/l   | 95  |
| 85) sec-Butylbenzene          | 13.182 | 105 | 2214   | 2.809     | ug/l   | 93  |
| 86) p-Isopropyltoluene        | 13.292 | 119 | 2324   | 3.631     | ug/l   | 88  |

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Sample : P4578-03  
Misc : 5.99g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :

Quant Time: Oct 29 01:55:32 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y100924S.M  
Quant Title : SW846 8260  
QLast Update : Wed Oct 16 05:44:48 2024  
Response via : Initial Calibration

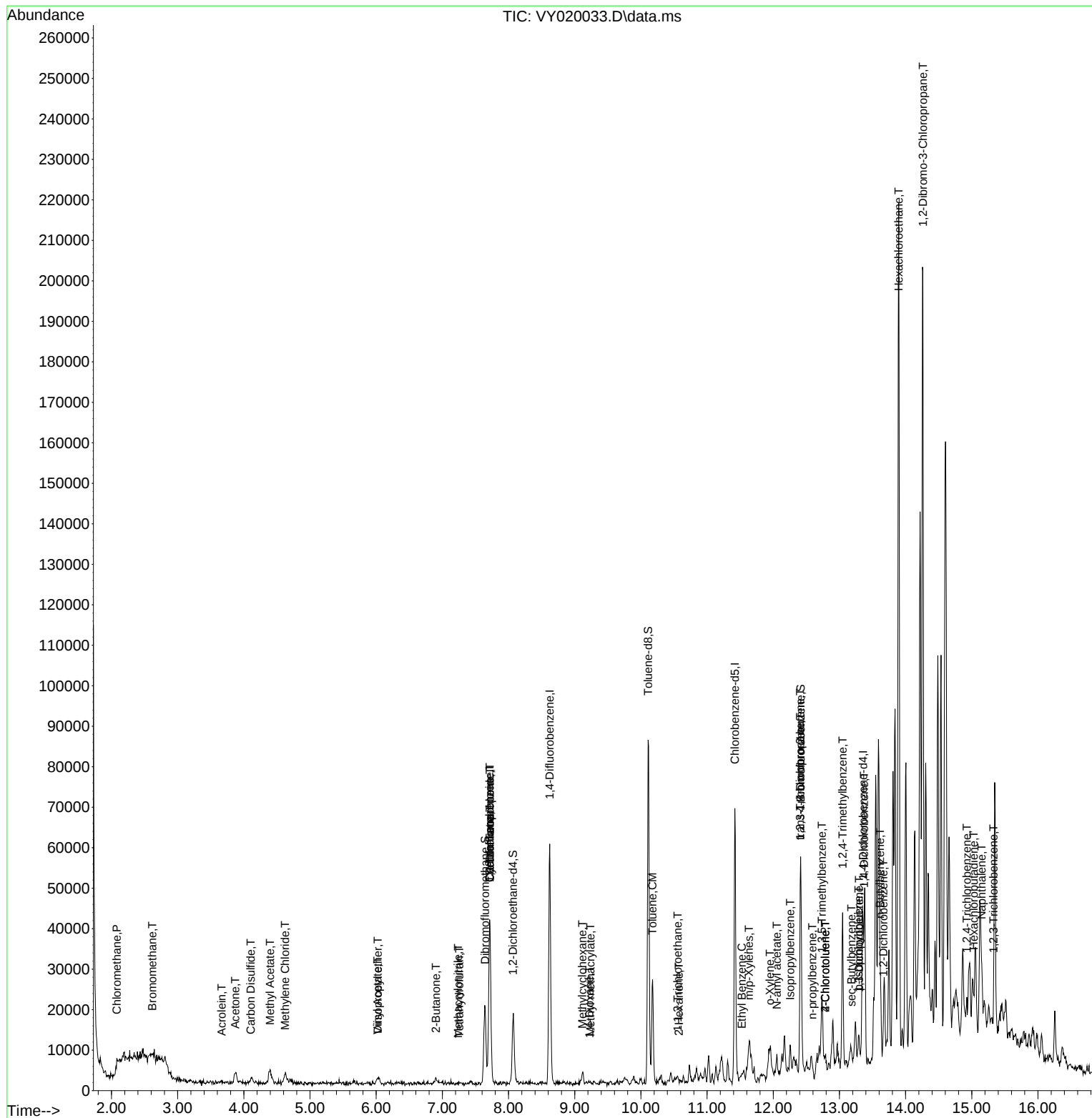
| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 87) 1,3-Dichlorobenzene       | 13.298 | 146  | 424      | 1.357  | ug/l # | 5        |
| 88) 1,4-Dichlorobenzene       | 13.371 | 146  | 563      | 1.834  | ug/l # | 38       |
| 89) n-Butylbenzene            | 13.615 | 91   | 9756     | 15.612 | ug/l # | 79       |
| 90) Hexachloroethane          | 13.895 | 117  | 7797     | 62.570 | ug/l # | 12       |
| 91) 1,2-Dichlorobenzene       | 13.663 | 146  | 492      | 1.792  | ug/l # | 51       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.261 | 75   | 889      | 42.998 | ug/l # | 1        |
| 93) 1,2,4-Trichlorobenzene    | 14.925 | 180  | 621      | 4.034  | ug/l # | 59       |
| 94) Hexachlorobutadiene       | 15.029 | 225  | 248      | 2.898  | ug/l # | 43       |
| 95) Naphthalene               | 15.151 | 128  | 10188    | 35.090 | ug/l # | 96       |
| 96) 1,2,3-Trichlorobenzene    | 15.328 | 180  | 906      | 6.962  | ug/l   | 79       |

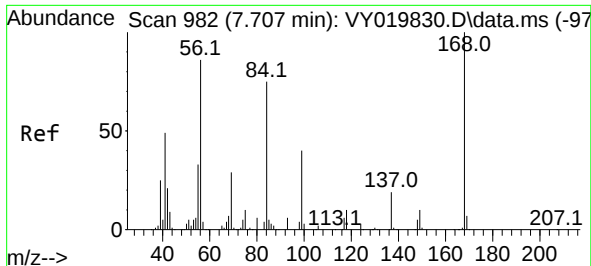
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 QLast Update : Wed Oct 16 05:44:48 2024  
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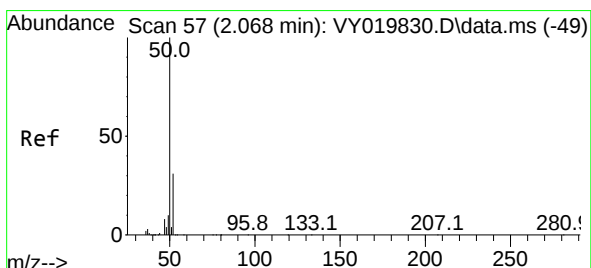
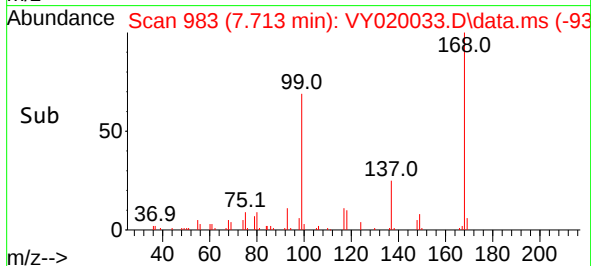
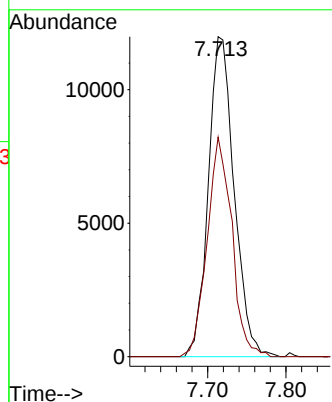
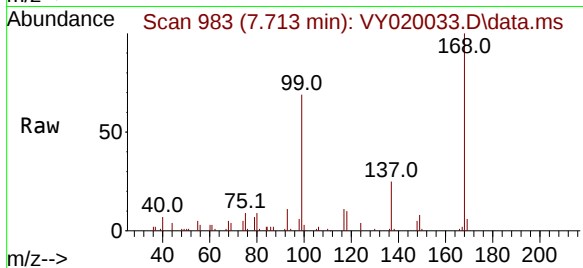




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.713 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY020033.D  
Acq: 28 Oct 2024 11:56

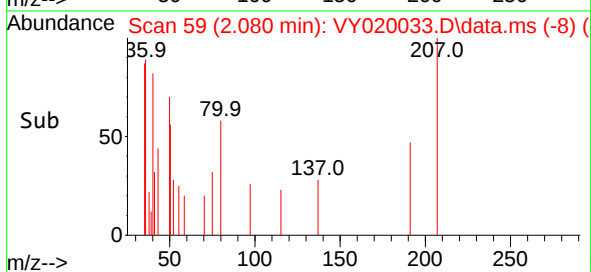
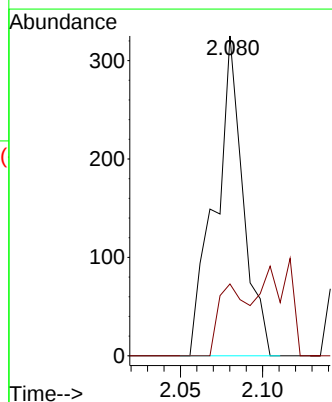
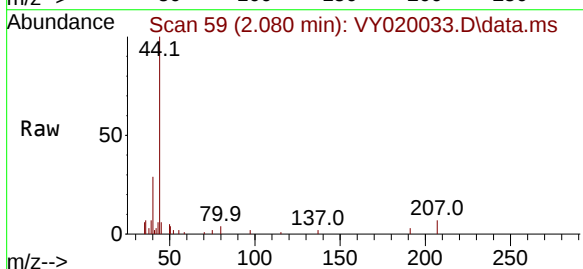
Instrument :  
MSVOA\_Y  
ClientSampleId :

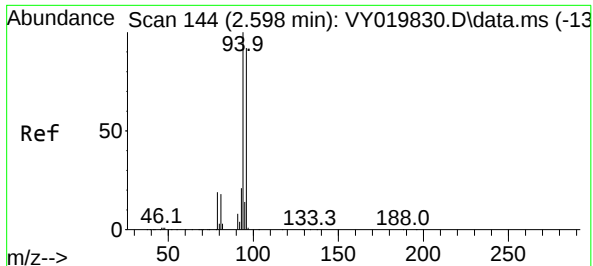
Tgt Ion:168 Resp: 27473  
Ion Ratio Lower Upper  
168 100  
99 68.6 39.1 58.7#



#3  
Chloromethane  
Concen: 1.148 ug/l  
RT: 2.080 min Scan# 59  
Delta R.T. 0.012 min  
Lab File: VY020033.D  
Acq: 28 Oct 2024 11:56

Tgt Ion: 50 Resp: 382  
Ion Ratio Lower Upper  
50 100  
52 22.5 25.6 38.4#

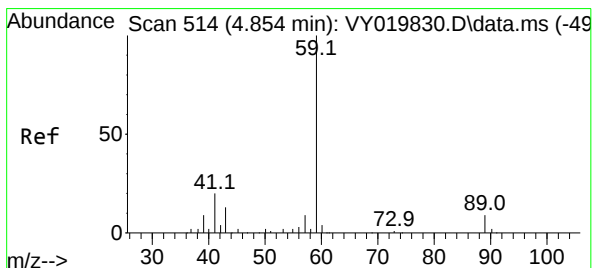
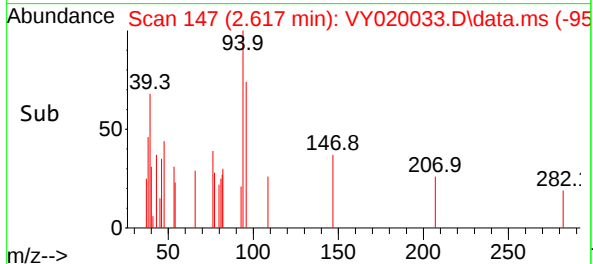
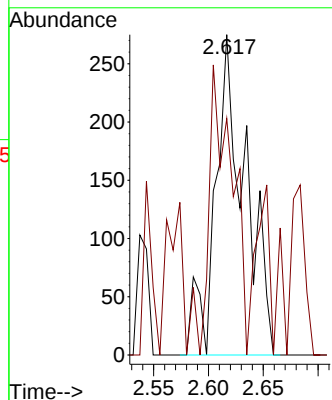
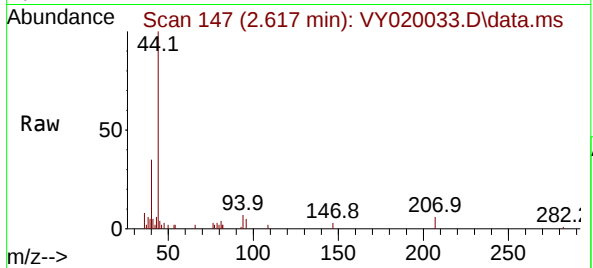




#5  
Bromomethane  
Concen: 2.277 ug/l  
RT: 2.617 min Scan# 144  
Delta R.T. 0.019 min  
Lab File: VY020033.D  
Acq: 28 Oct 2024 11:56

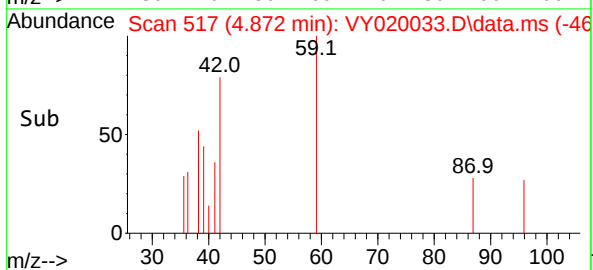
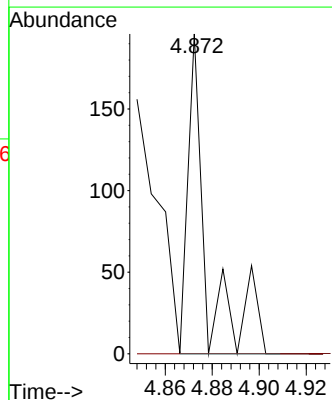
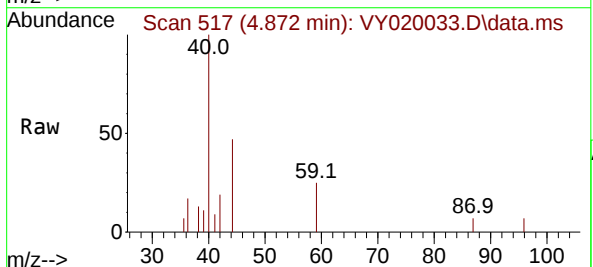
Instrument :  
MSVOA\_Y  
ClientSampleId :

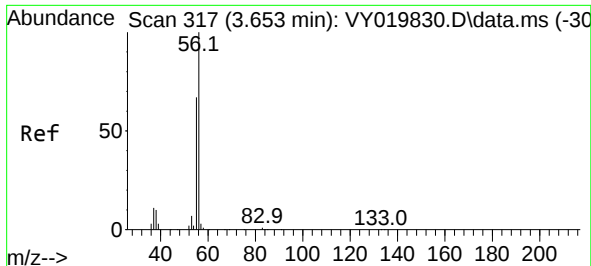
Tgt Ion: 94 Resp: 528  
Ion Ratio Lower Upper  
94 100  
96 34.2 74.1 111.1#



#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 4.872 min Scan# 517  
Delta R.T. 0.012 min  
Lab File: VY020033.D  
Acq: 28 Oct 2024 11:56

Tgt Ion: 59 Resp: 110  
Ion Ratio Lower Upper  
59 100  
57 0.0 3.0 4.6#





#13

Acrolein

Concen: 1.891 ug/l

RT: 3.665 min Scan# 317

Delta R.T. 0.012 min

Lab File: VY020033.D

Acq: 28 Oct 2024 11:56

Instrument :

MSVOA\_Y

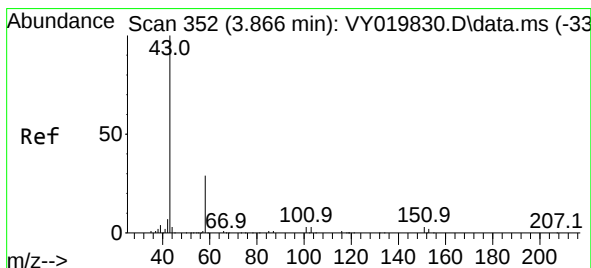
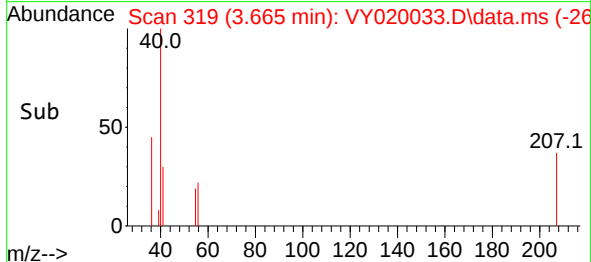
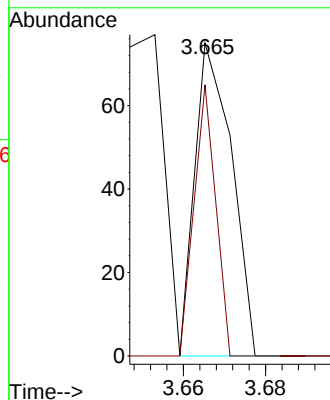
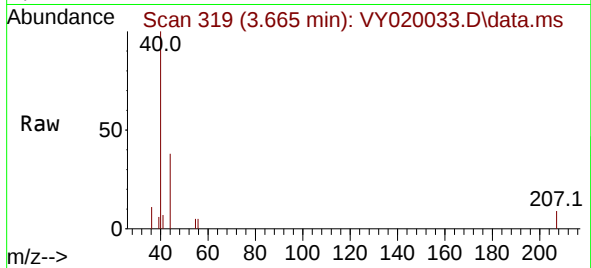
ClientSampleId :

Tgt Ion: 56 Resp: 47

Ion Ratio Lower Upper

56 100

55 51.1 55.7 83.5#



#16

Acetone

Concen: 51.932 ug/l

RT: 3.873 min Scan# 353

Delta R.T. 0.000 min

Lab File: VY020033.D

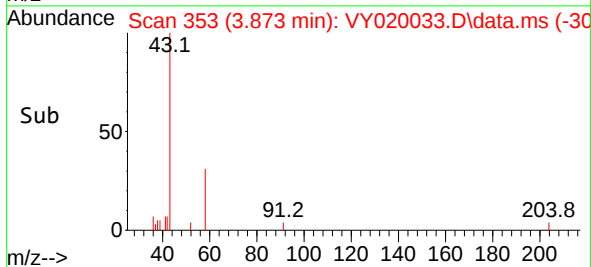
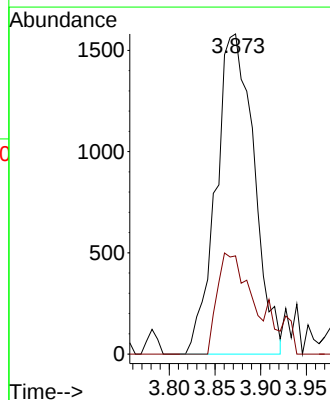
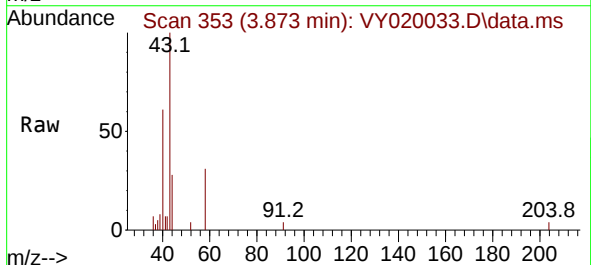
Acq: 28 Oct 2024 11:56

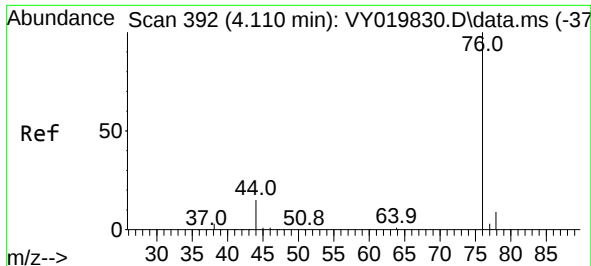
Tgt Ion: 43 Resp: 4573

Ion Ratio Lower Upper

43 100

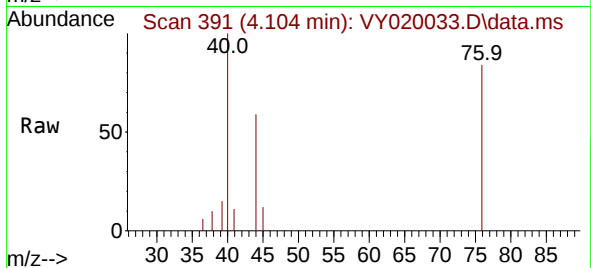
58 30.7 31.7 47.5#



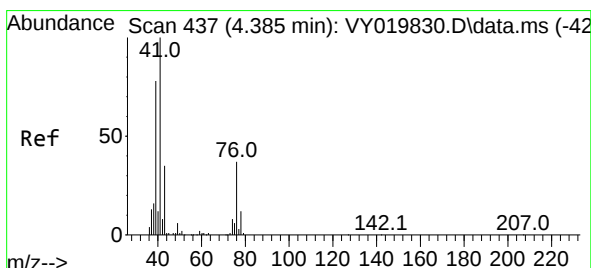
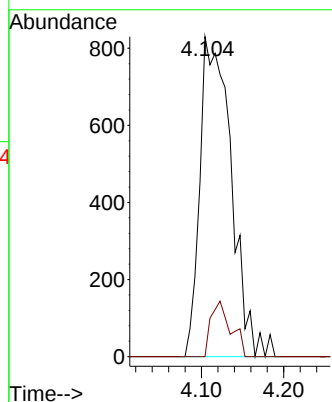
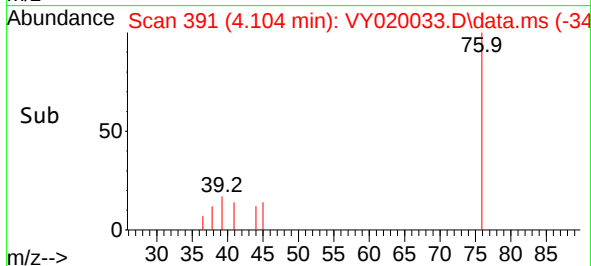


#17  
Carbon Disulfide  
Concen: 2.779 ug/l  
RT: 4.104 min Scan# 391  
Delta R.T. 0.000 min  
Lab File: VY020033.D  
Acq: 28 Oct 2024 11:56

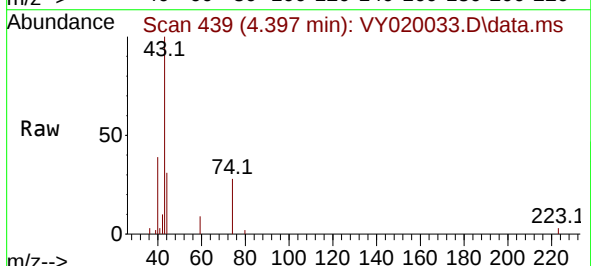
Instrument :  
MSVOA\_Y  
ClientSampleId :



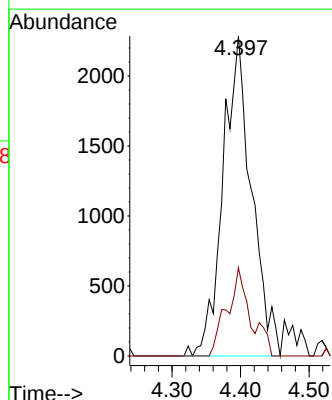
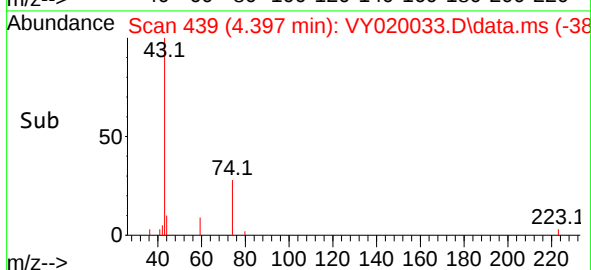
Tgt Ion: 76 Resp: 2195  
Ion Ratio Lower Upper  
76 100  
78 0.0 6.8 10.2#

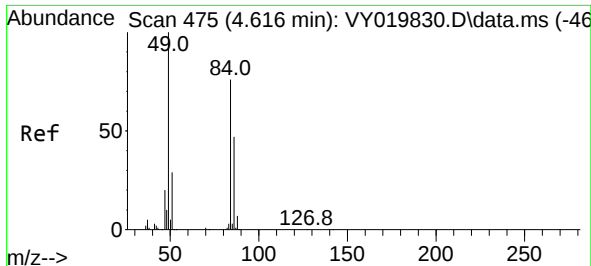


#18  
Methyl Acetate  
Concen: 34.909 ug/l  
RT: 4.397 min Scan# 439  
Delta R.T. 0.013 min  
Lab File: VY020033.D  
Acq: 28 Oct 2024 11:56



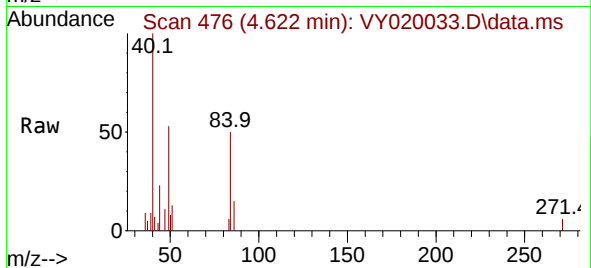
Tgt Ion: 43 Resp: 6622  
Ion Ratio Lower Upper  
43 100  
74 19.5 23.3 34.9#



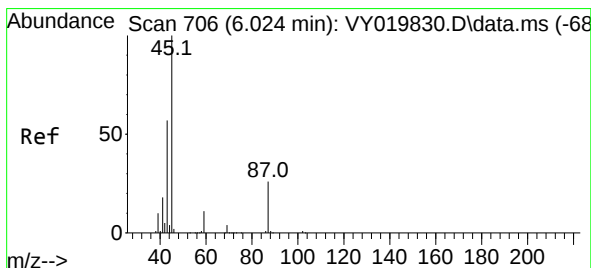
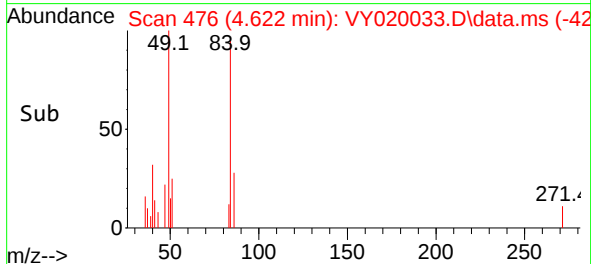
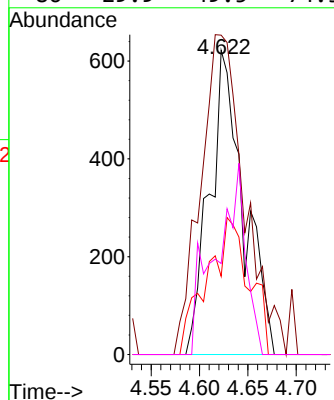


#20  
Methylene Chloride  
Concen: 3.932 ug/l  
RT: 4.622 min Scan# 41  
Delta R.T. 0.006 min  
Lab File: VY020033.D  
Acq: 28 Oct 2024 11:56

Instrument :  
MSVOA\_Y  
ClientSampleId :

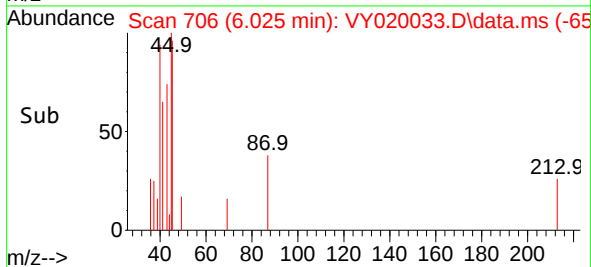
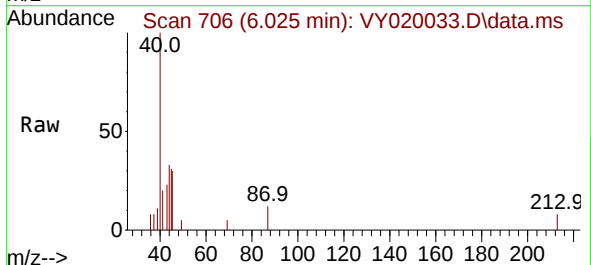
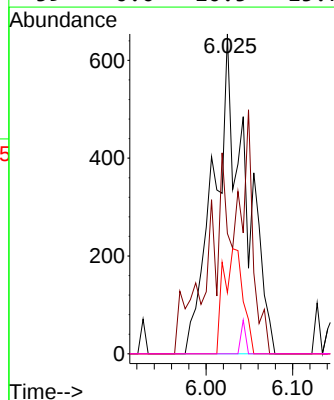


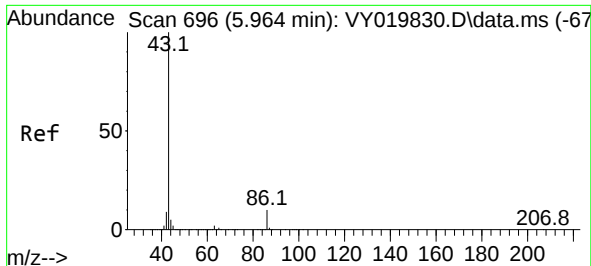
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|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 1521  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 94.2  | 84.4  | 126.6 |
| 51       | 25.7  | 26.0  | 39.0# |
| 86       | 29.9  | 49.5  | 74.3# |



#22  
Diisopropyl ether  
Concen: 1.424 ug/l  
RT: 6.025 min Scan# 706  
Delta R.T. 0.006 min  
Lab File: VY020033.D  
Acq: 28 Oct 2024 11:56

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 45    | Resp: | 1650  |
| Ion      | Ratio | Lower | Upper |
| 45       | 100   |       |       |
| 43       | 37.6  | 42.2  | 63.2# |
| 87       | 19.1  | 25.0  | 37.6# |
| 59       | 0.0   | 10.5  | 15.7# |

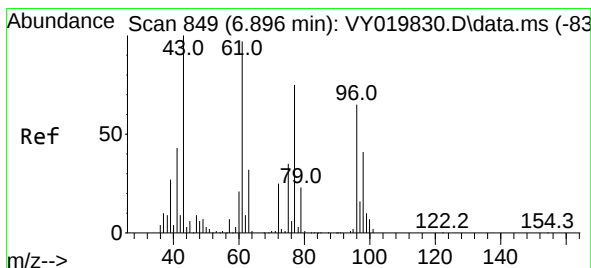
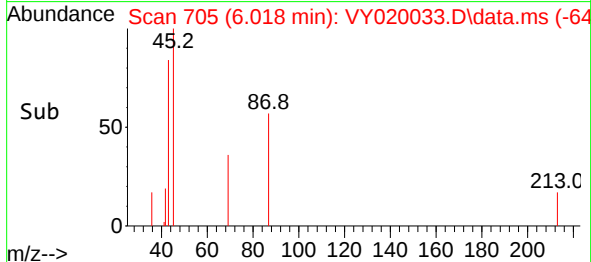
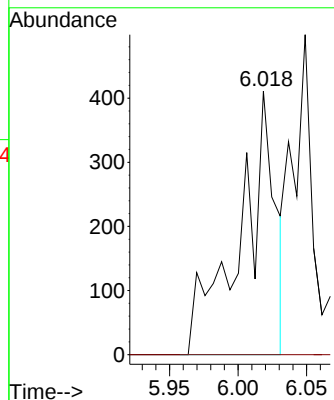
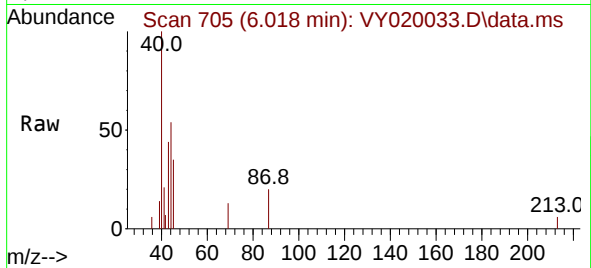




#23  
Vinyl Acetate  
Concen: 1.107 ug/l  
RT: 6.018 min Scan# 705  
Delta R.T. 0.061 min  
Lab File: VY020033.D  
Acq: 28 Oct 2024 11:56

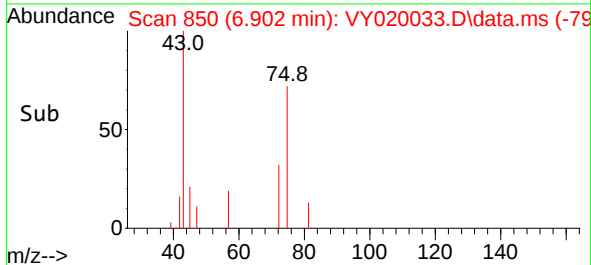
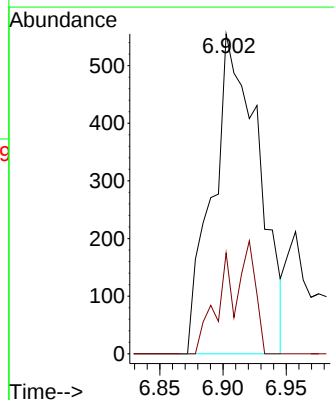
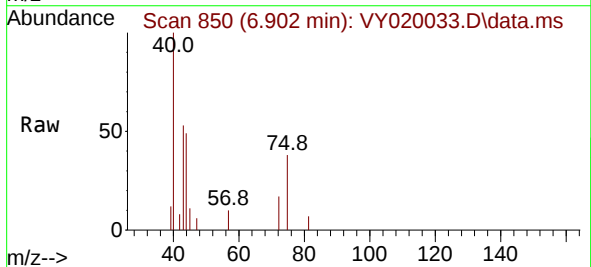
Instrument :  
MSVOA\_Y  
ClientSampleId :

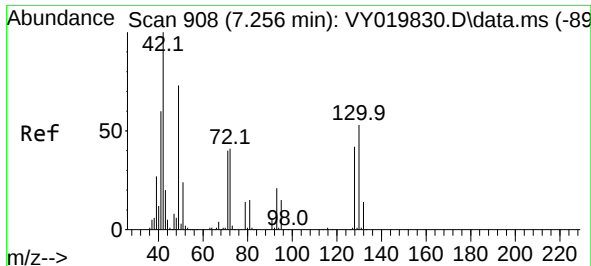
Tgt Ion: 43 Resp: 735  
Ion Ratio Lower Upper  
43 100  
86 0.0 10.6 16.0#



#25  
2-Butanone  
Concen: 11.937 ug/l  
RT: 6.902 min Scan# 850  
Delta R.T. 0.012 min  
Lab File: VY020033.D  
Acq: 28 Oct 2024 11:56

Tgt Ion: 43 Resp: 1407  
Ion Ratio Lower Upper  
43 100  
72 31.5 27.3 40.9





#29

Tetrahydrofuran

Concen: 4.012 ug/l

RT: 7.256 min Scan# 908

Delta R.T. -0.006 min

Lab File: VY020033.D

Acq: 28 Oct 2024 11:56

Instrument :

MSVOA\_Y

ClientSampleId :

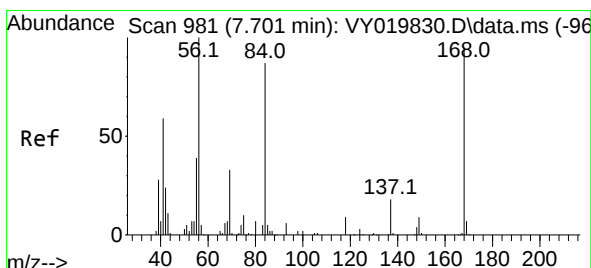
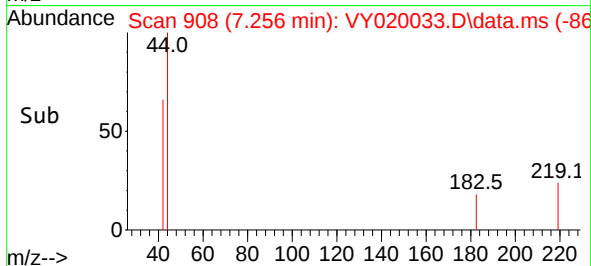
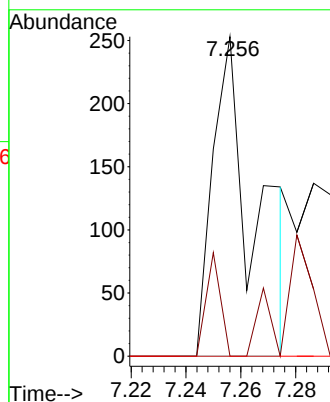
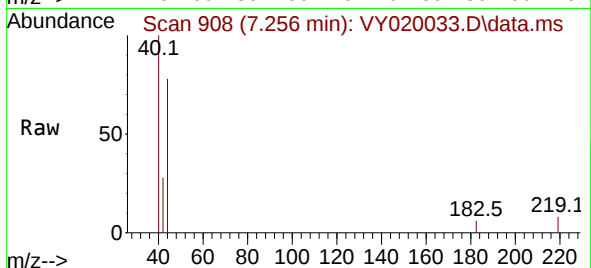
Tgt Ion: 42 Resp: 270

Ion Ratio Lower Upper

42 100

72 11.1 43.0 64.4#

71 0.0 40.8 61.2#



#31

Cyclohexane

Concen: 1.702 ug/l

RT: 7.719 min Scan# 984

Delta R.T. 0.019 min

Lab File: VY020033.D

Acq: 28 Oct 2024 11:56

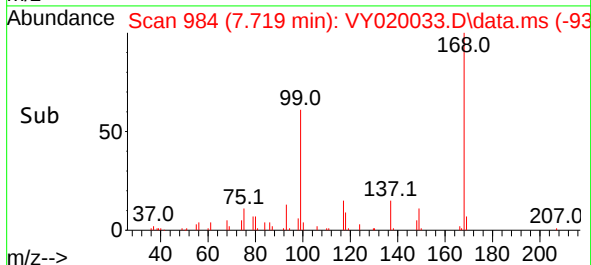
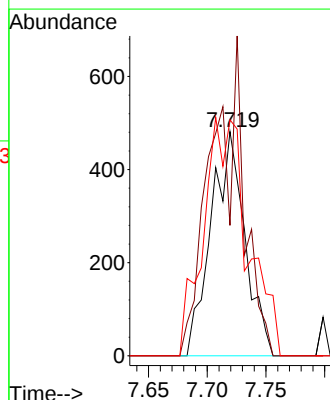
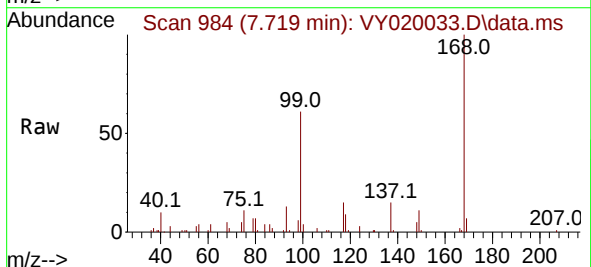
Tgt Ion: 56 Resp: 962

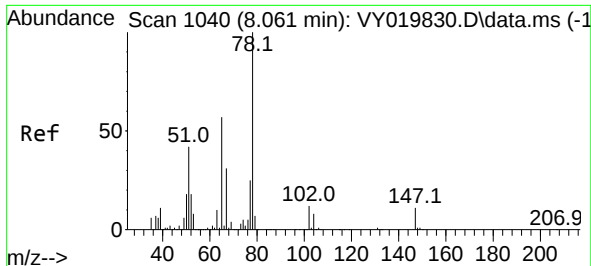
Ion Ratio Lower Upper

56 100

69 58.1 28.7 43.1#

84 105.2 77.7 116.5





#33

1,2-Dichloroethane-d4

Concen: 40.068 ug/l

RT: 8.067 min Scan# 110

Delta R.T. 0.006 min

Lab File: VY020033.D

Acq: 28 Oct 2024 11:56

Instrument :

MSVOA\_Y

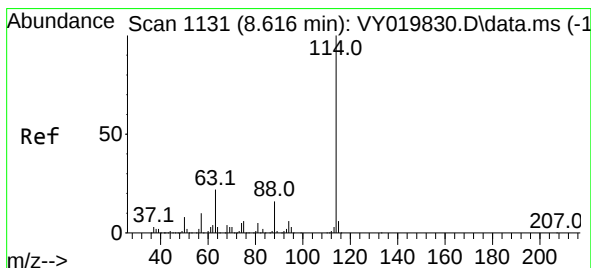
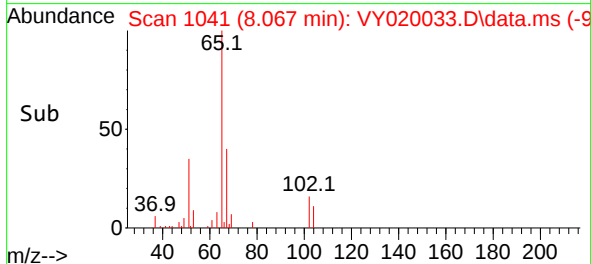
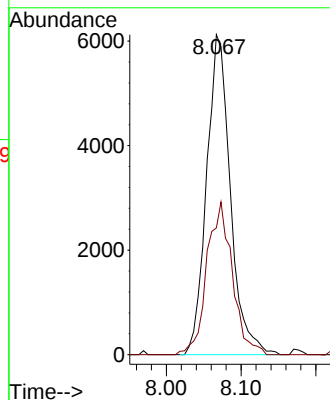
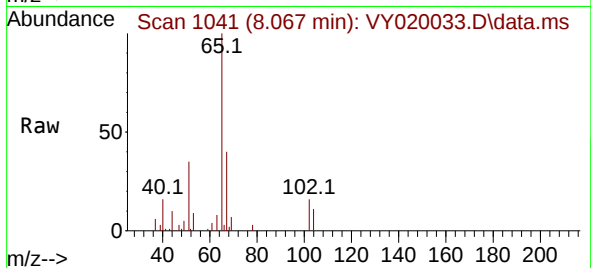
ClientSampleId :

Tgt Ion: 65 Resp: 13554

Ion Ratio Lower Upper

65 100

67 51.1 0.0 109.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.622 min Scan# 1132

Delta R.T. 0.006 min

Lab File: VY020033.D

Acq: 28 Oct 2024 11:56

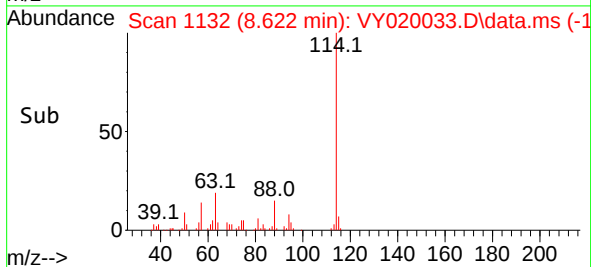
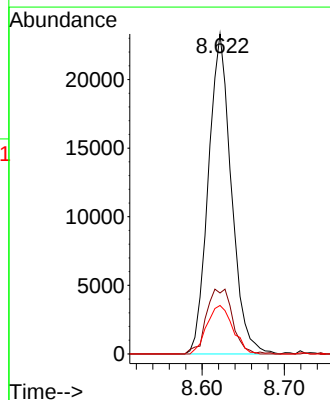
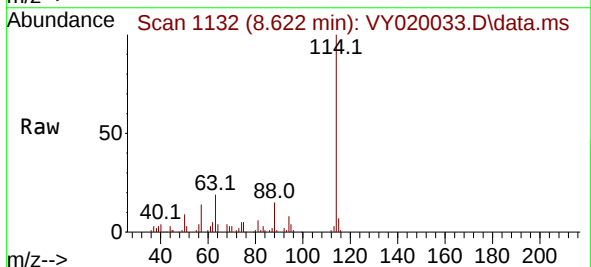
Tgt Ion: 114 Resp: 45281

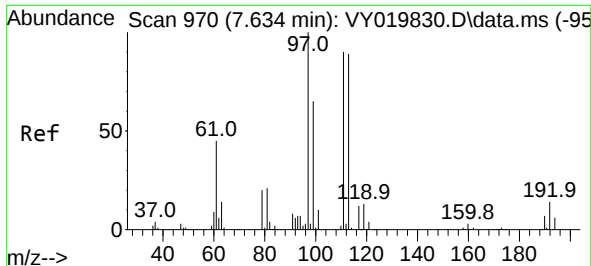
Ion Ratio Lower Upper

114 100

63 19.0 0.0 35.0

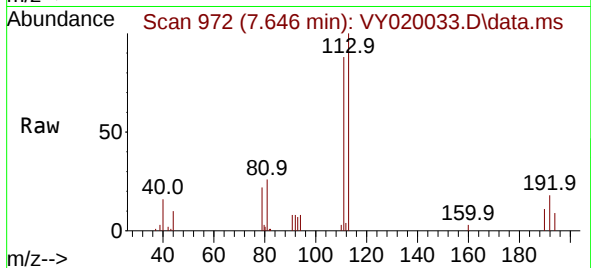
88 15.1 0.0 27.2



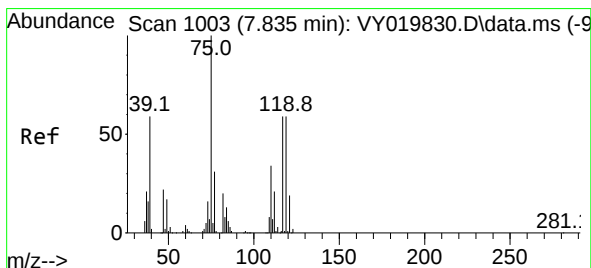
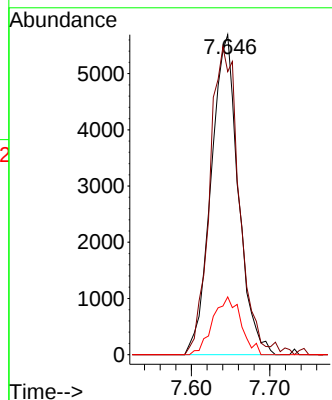
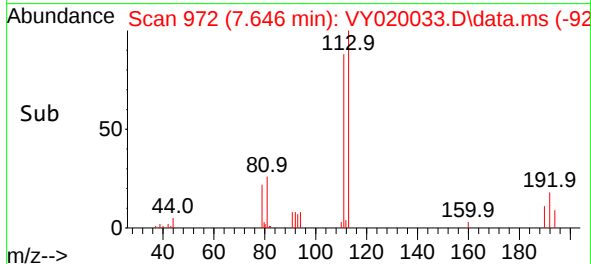


#35  
Dibromofluoromethane  
Concen: 45.987 ug/l  
RT: 7.646 min Scan# 91  
Delta R.T. 0.012 min  
Lab File: VY020033.D  
Acq: 28 Oct 2024 11:56

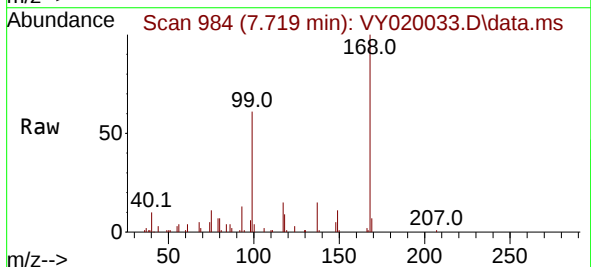
Instrument :  
MSVOA\_Y  
ClientSampleId :



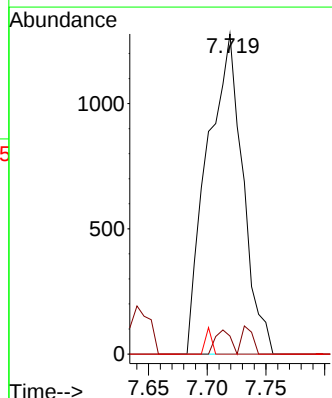
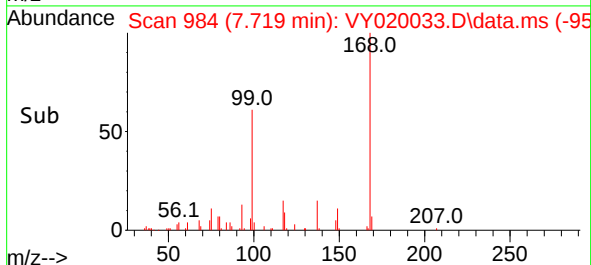
Tgt Ion:113 Resp: 13741  
Ion Ratio Lower Upper  
113 100  
111 104.6 82.2 123.4  
192 18.6 15.9 23.9

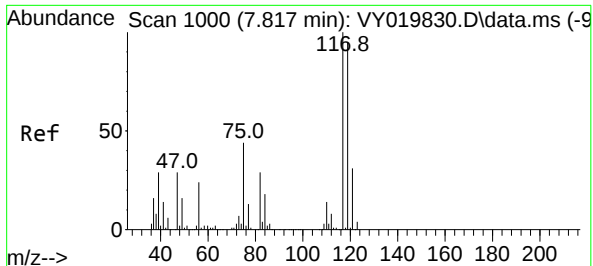


#36  
1,1-Dichloropropene  
Concen: 6.240 ug/l  
RT: 7.719 min Scan# 984  
Delta R.T. -0.116 min  
Lab File: VY020033.D  
Acq: 28 Oct 2024 11:56



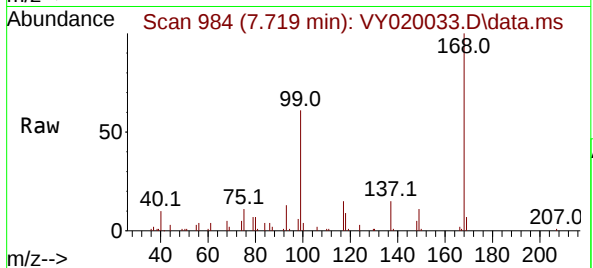
Tgt Ion: 75 Resp: 2686  
Ion Ratio Lower Upper  
75 100  
110 3.2 19.0 57.0#  
77 1.5 25.3 37.9#



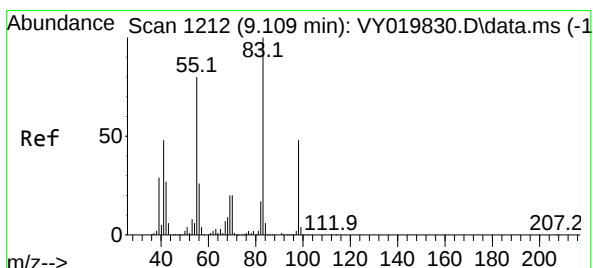
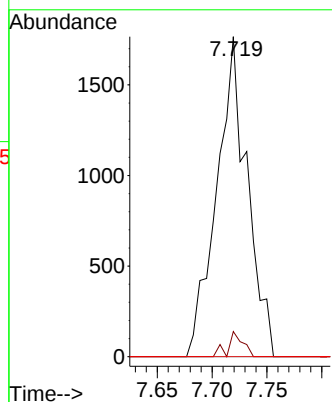
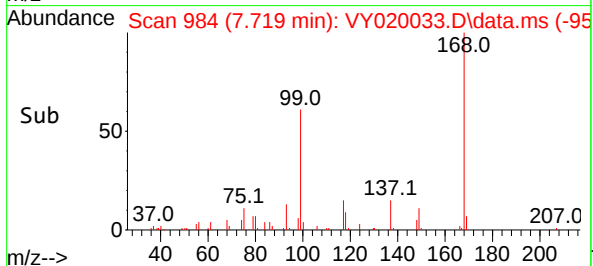


#38  
Carbon Tetrachloride  
Concen: 7.445 ug/l  
RT: 7.719 min Scan# 91  
Delta R.T. -0.097 min  
Lab File: VY020033.D  
Acq: 28 Oct 2024 11:56

Instrument :  
MSVOA\_Y  
ClientSampleId :

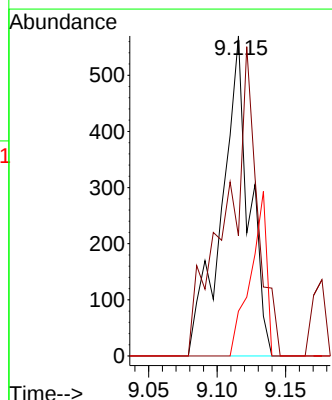
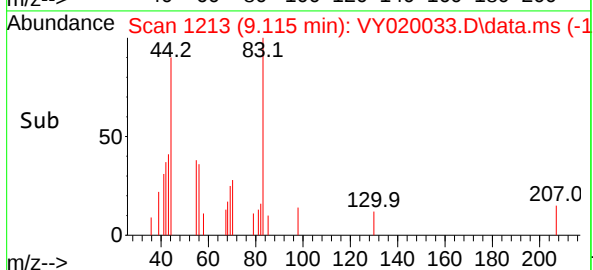
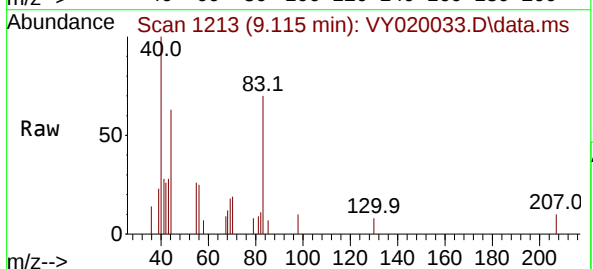


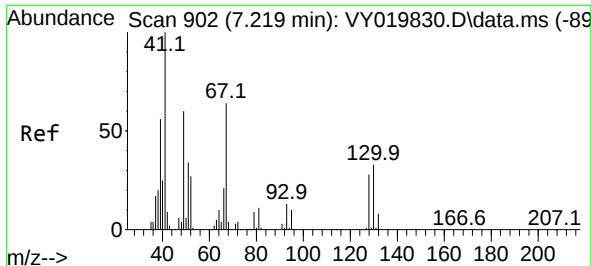
Tgt Ion:117 Resp: 3436  
Ion Ratio Lower Upper  
117 100  
119 7.9 75.8 113.6#  
121 0.0 24.0 36.0#



#39  
Methylcyclohexane  
Concen: 1.479 ug/l  
RT: 9.115 min Scan# 1213  
Delta R.T. 0.006 min  
Lab File: VY020033.D  
Acq: 28 Oct 2024 11:56

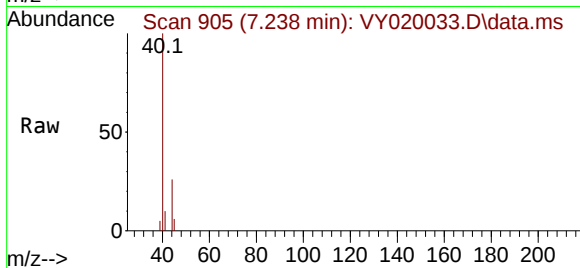
Tgt Ion: 83 Resp: 802  
Ion Ratio Lower Upper  
83 100  
55 37.5 51.5 77.3#  
98 14.0 40.5 60.7#



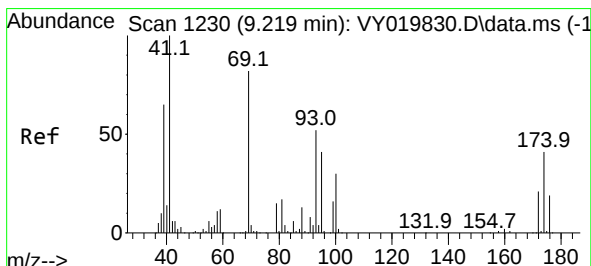
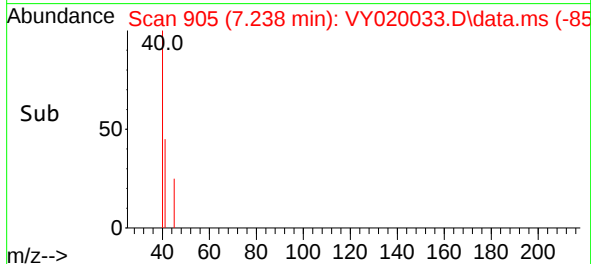
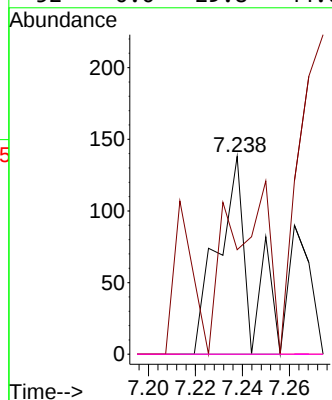


#41  
Methacrylonitrile  
Concen: 1.095 ug/l  
RT: 7.238 min Scan# 902  
Delta R.T. 0.019 min  
Lab File: VY020033.D  
Acq: 28 Oct 2024 11:56

Instrument :  
MSVOA\_Y  
ClientSampleId :

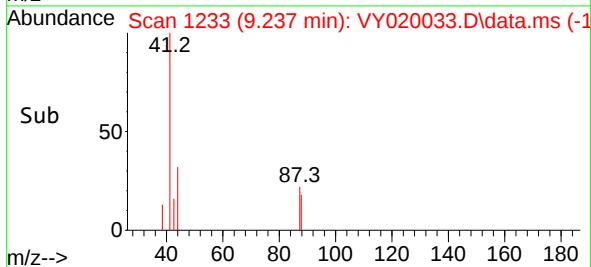
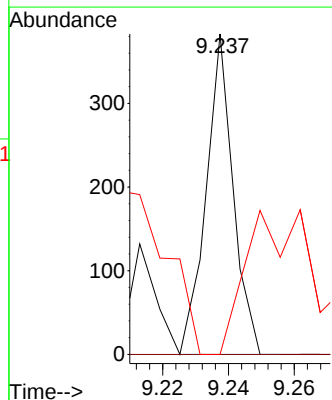
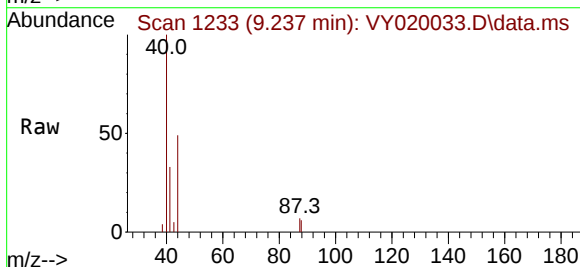


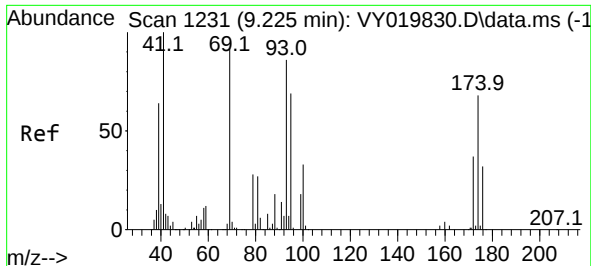
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 41    | Resp: | 133    |
| Ion      | Ratio | Lower | Upper  |
| 41       | 100   |       |        |
| 39       | 0.0   | 48.0  | 72.0#  |
| 67       | 0.0   | 75.1  | 112.7# |
| 52       | 0.0   | 29.8  | 44.6#  |



#48  
Methyl methacrylate  
Concen: 1.088 ug/l  
RT: 9.237 min Scan# 1233  
Delta R.T. 0.019 min  
Lab File: VY020033.D  
Acq: 28 Oct 2024 11:56

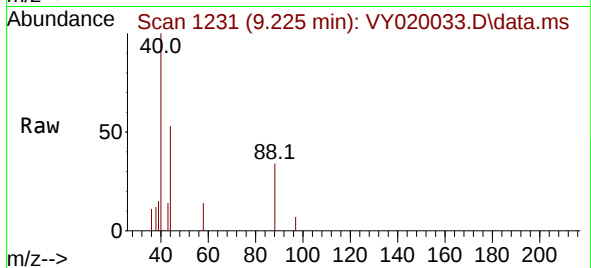
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 41    | Resp: | 219    |
| Ion      | Ratio | Lower | Upper  |
| 41       | 100   |       |        |
| 69       | 0.0   | 84.1  | 126.1# |
| 39       | 0.0   | 43.6  | 65.4#  |



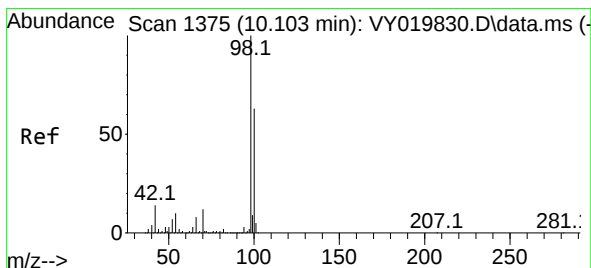
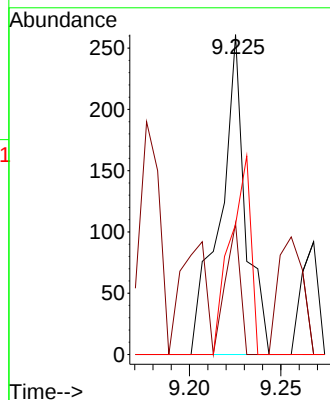
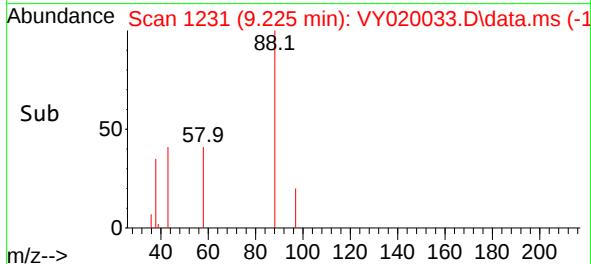


#49  
1,4-Dioxane  
Concen: 126.879 ug/l  
RT: 9.225 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VY020033.D  
Acq: 28 Oct 2024 11:56

Instrument :  
MSVOA\_Y  
ClientSampleId :

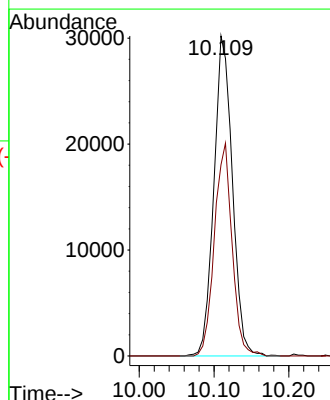
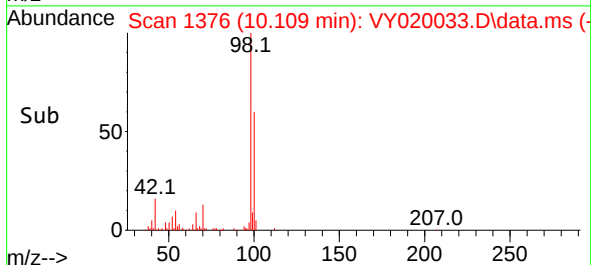
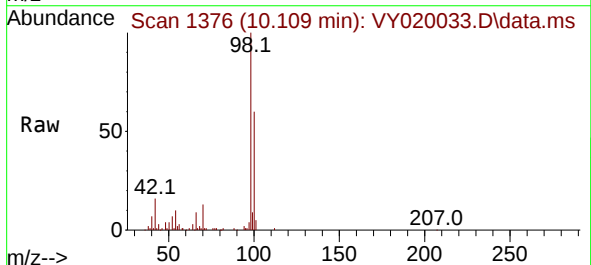


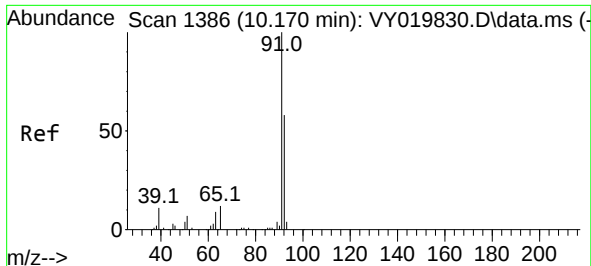
Tgt Ion: 88 Resp: 253  
Ion Ratio Lower Upper  
88 100  
43 23.7 0.0 0.0#  
58 50.2 49.3 73.9



#50  
Toluene-d8  
Concen: 47.083 ug/l  
RT: 10.109 min Scan# 1376  
Delta R.T. 0.000 min  
Lab File: VY020033.D  
Acq: 28 Oct 2024 11:56

Tgt Ion: 98 Resp: 51954  
Ion Ratio Lower Upper  
98 100  
100 63.6 52.0 78.0

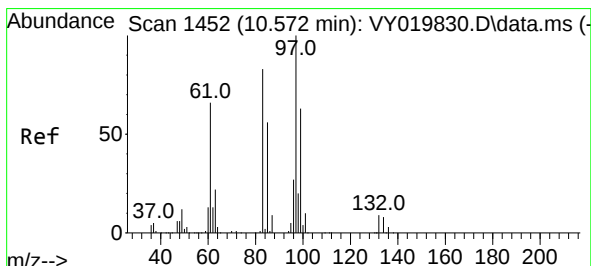
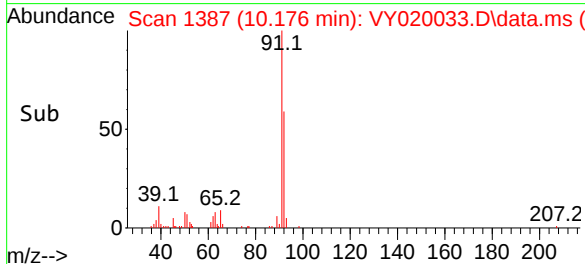
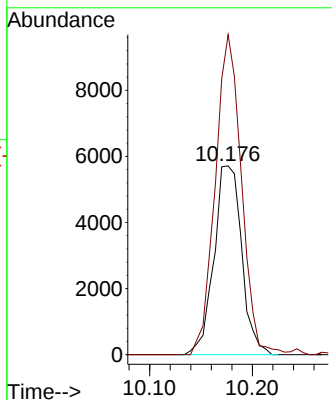
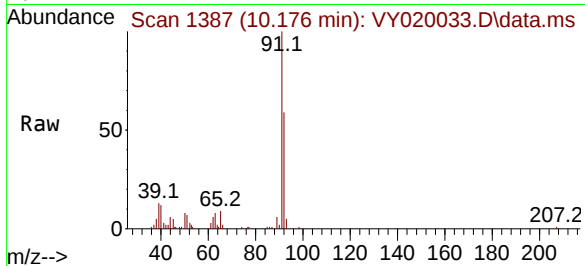




#52  
Toluene  
Concen: 13.123 ug/l  
RT: 10.176 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VY020033.D  
Acq: 28 Oct 2024 11:56

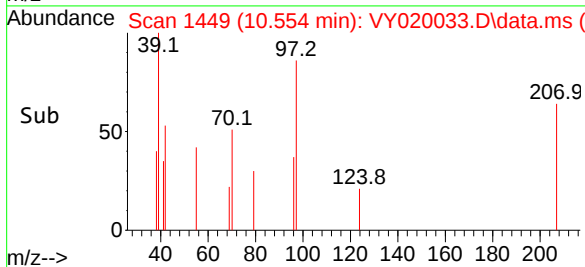
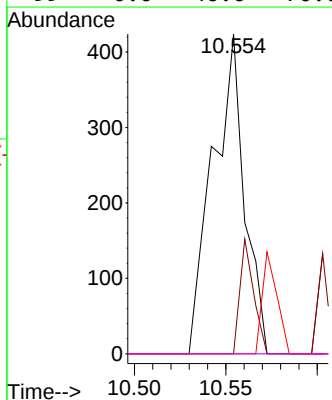
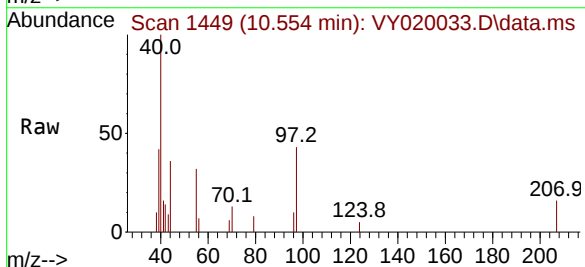
Instrument :  
MSVOA\_Y  
ClientSampleId :

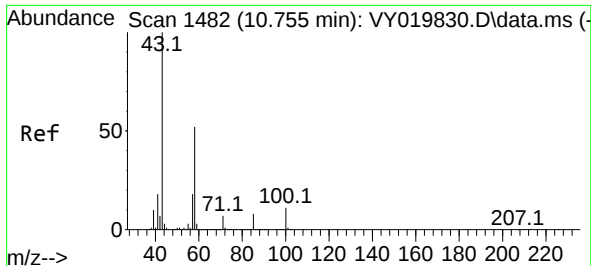
Tgt Ion: 92 Resp: 10672  
Ion Ratio Lower Upper  
92 100  
91 160.3 139.0 208.6



#55  
1,1,2-Trichloroethane  
Concen: 2.177 ug/l  
RT: 10.554 min Scan# 1449  
Delta R.T. -0.018 min  
Lab File: VY020033.D  
Acq: 28 Oct 2024 11:56

Tgt Ion: 97 Resp: 511  
Ion Ratio Lower Upper  
97 100  
83 0.0 67.5 101.3#  
85 0.0 42.9 64.3#  
99 0.0 46.6 70.0#

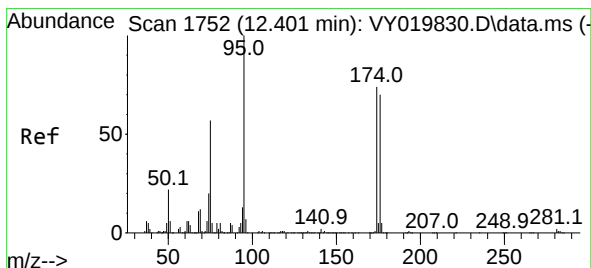
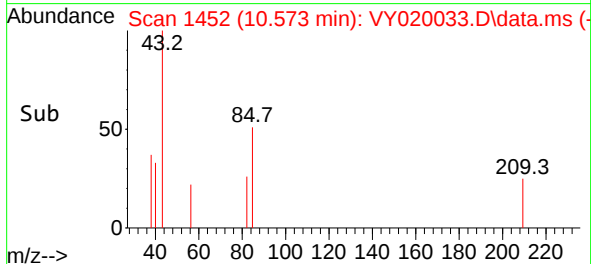
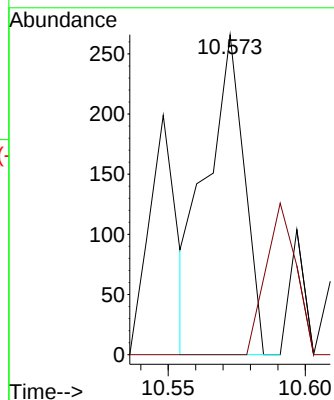
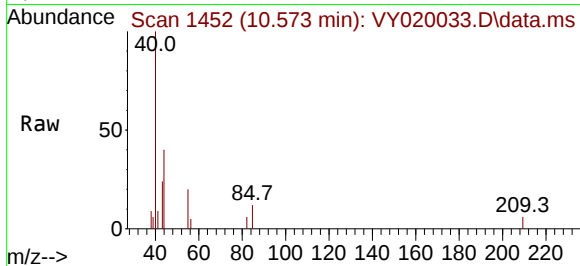




#59  
2-Hexanone  
Concen: 1.523 ug/l  
RT: 10.573 min Scan# 1482  
Delta R.T. -0.189 min  
Lab File: VY020033.D  
Acq: 28 Oct 2024 11:56

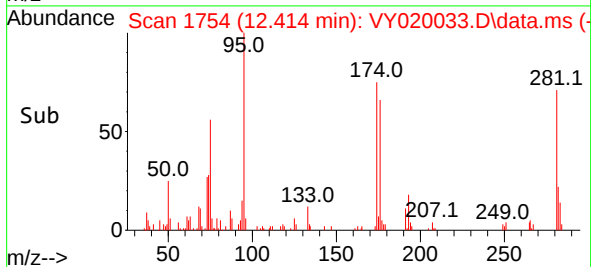
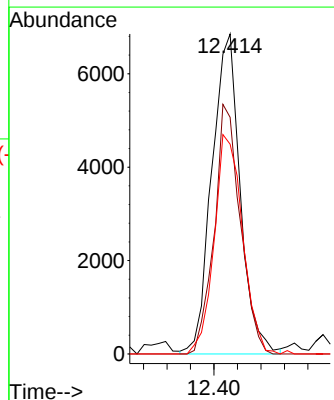
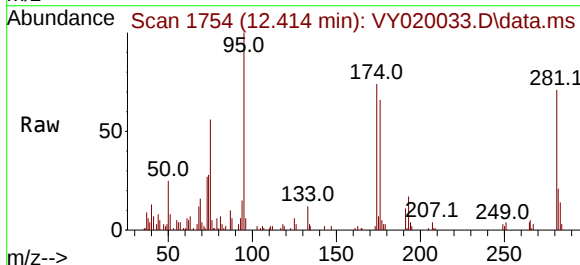
Instrument :  
MSVOA\_Y  
ClientSampleId :

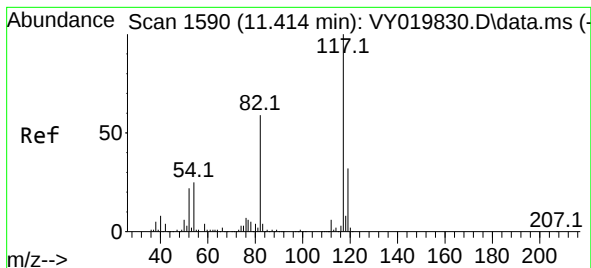
Tgt Ion: 43 Resp: 254  
Ion Ratio Lower Upper  
43 100  
58 37.8 31.4 94.0



#62  
4-Bromofluorobenzene  
Concen: 28.836 ug/l  
RT: 12.414 min Scan# 1754  
Delta R.T. 0.006 min  
Lab File: VY020033.D  
Acq: 28 Oct 2024 11:56

Tgt Ion: 95 Resp: 11497  
Ion Ratio Lower Upper  
95 100  
174 71.8 0.0 175.6  
176 68.6 0.0 171.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY020033.D

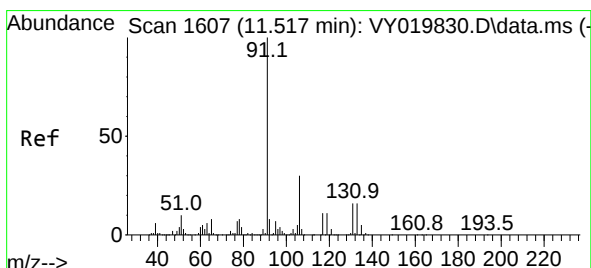
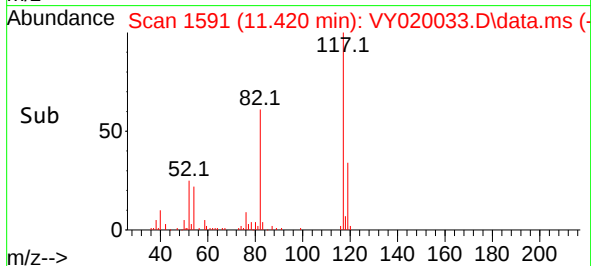
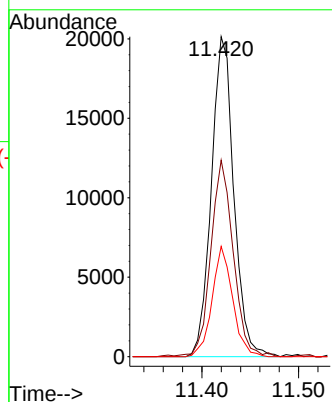
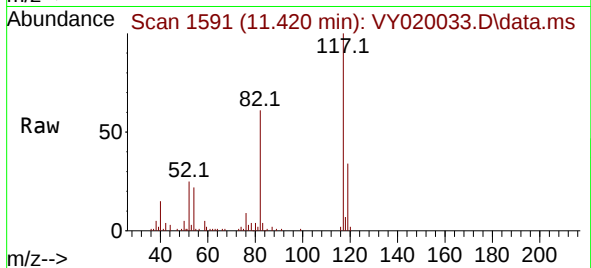
Acq: 28 Oct 2024 11:56

Instrument :

MSVOA\_Y

ClientSampleId :

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:117 | Resp: | 32489     |
| Ion Ratio   | Lower | Upper     |
| 117         | 100   |           |
| 82          | 61.4  | 42.4 63.6 |
| 119         | 34.5  | 25.9 38.9 |



#67

Ethyl Benzene

Concen: 1.001 ug/l

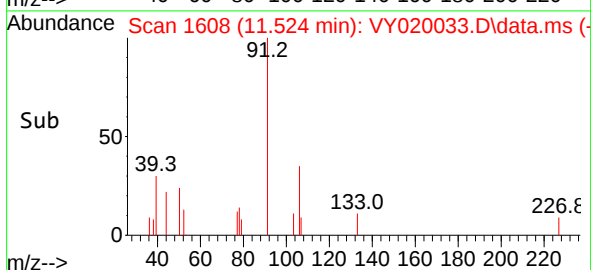
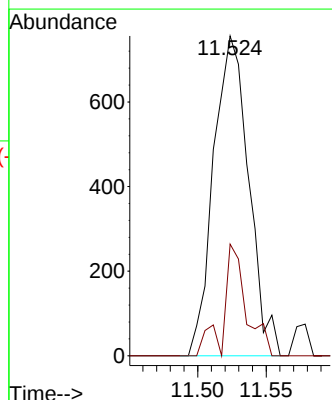
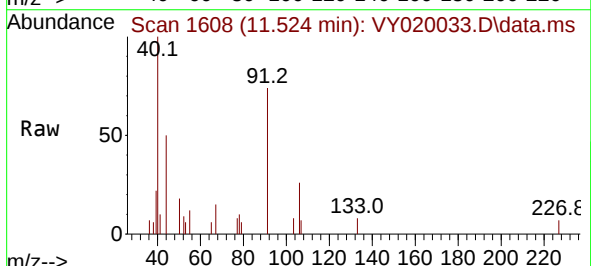
RT: 11.524 min Scan# 1608

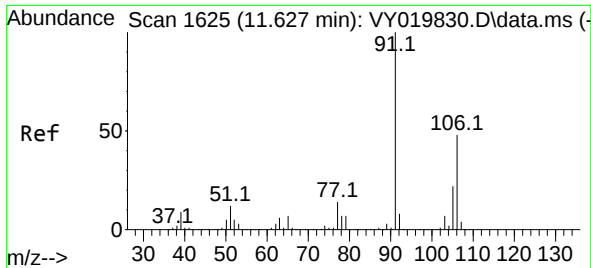
Delta R.T. 0.000 min

Lab File: VY020033.D

Acq: 28 Oct 2024 11:56

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 91 | Resp: | 1351      |
| Ion Ratio   | Lower | Upper     |
| 91          | 100   |           |
| 106         | 34.9  | 24.5 36.7 |

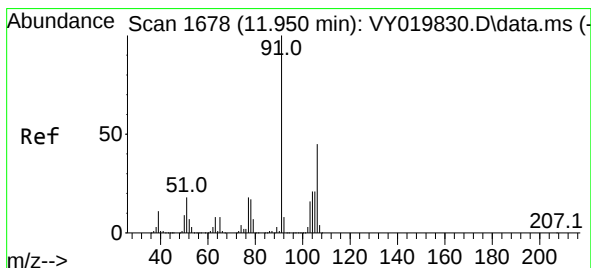
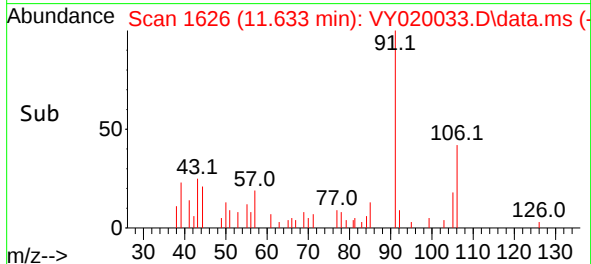
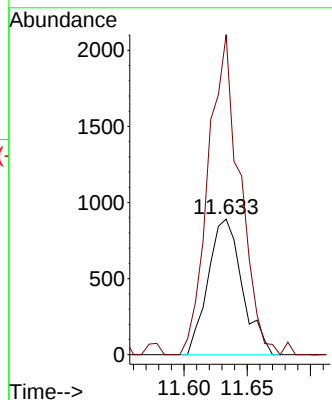
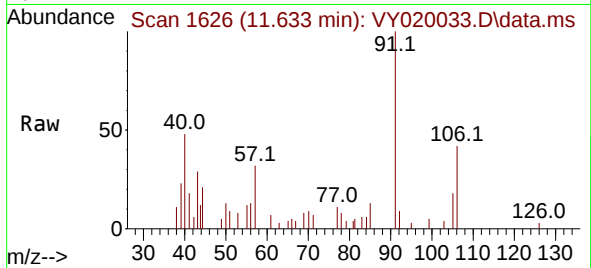




#68  
m/p-Xylenes  
Concen: 3.346 ug/l  
RT: 11.633 min Scan# 1626  
Delta R.T. 0.000 min  
Lab File: VY020033.D  
Acq: 28 Oct 2024 11:56

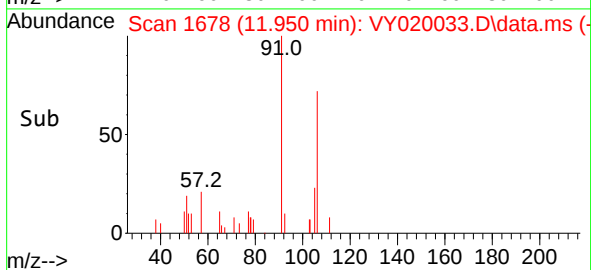
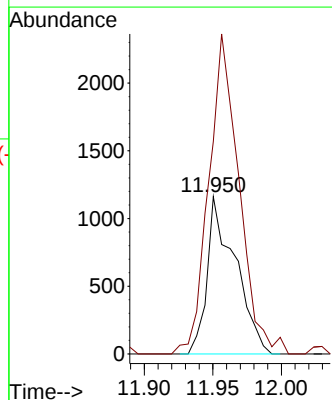
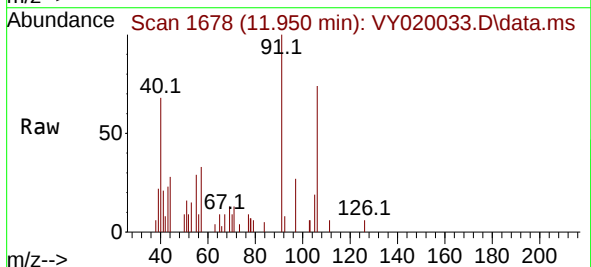
Instrument :  
MSVOA\_Y  
ClientSampleId :

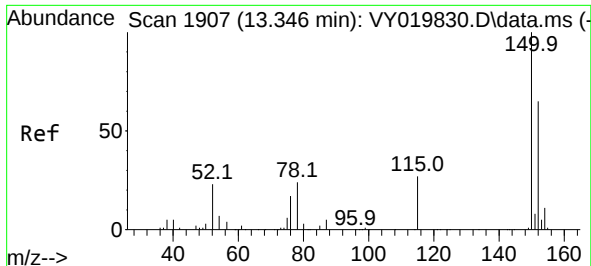
Tgt Ion:106 Resp: 1668  
Ion Ratio Lower Upper  
106 100  
91 219.9 156.0 234.0



#69  
o-Xylene  
Concen: 3.463 ug/l  
RT: 11.950 min Scan# 1678  
Delta R.T. -0.006 min  
Lab File: VY020033.D  
Acq: 28 Oct 2024 11:56

Tgt Ion:106 Resp: 1659  
Ion Ratio Lower Upper  
106 100  
91 218.9 103.6 310.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.359 min Scan# 1909

Delta R.T. 0.012 min

Lab File: VY020033.D

Acq: 28 Oct 2024 11:56

Instrument :

MSVOA\_Y

ClientSampleId :

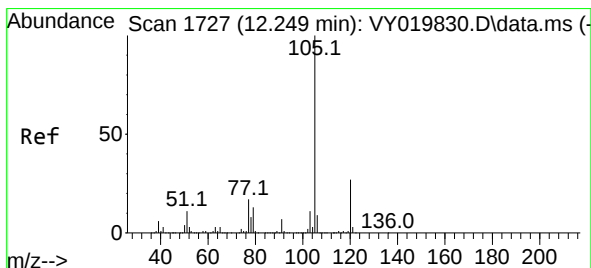
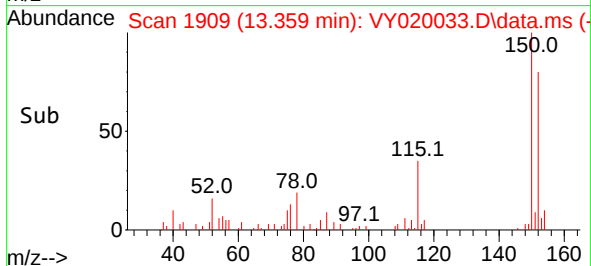
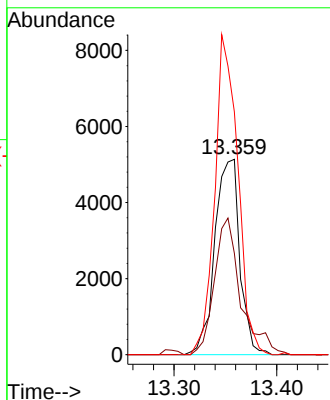
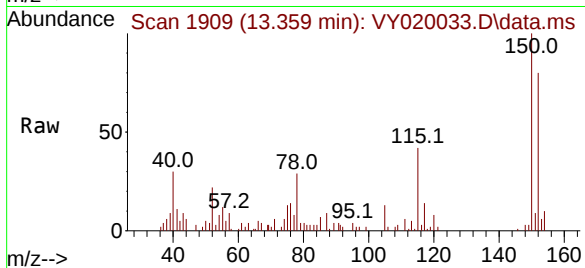
Tgt Ion:152 Resp: 8668

Ion Ratio Lower Upper

152 100

115 74.1 28.2 84.7

150 150.9 0.0 345.6



#73

Isopropylbenzene

Concen: 4.545 ug/l

RT: 12.255 min Scan# 1728

Delta R.T. 0.000 min

Lab File: VY020033.D

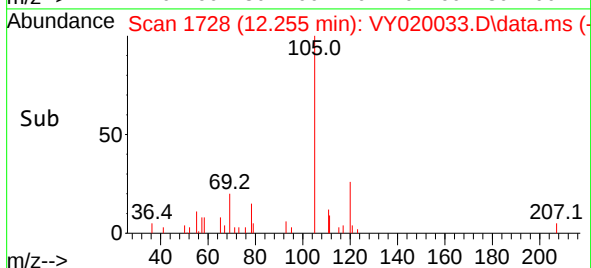
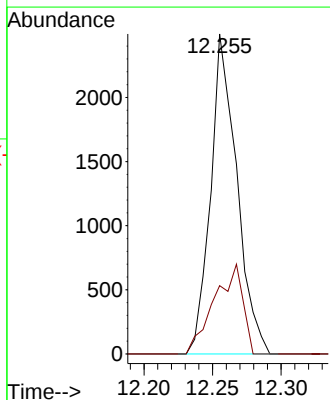
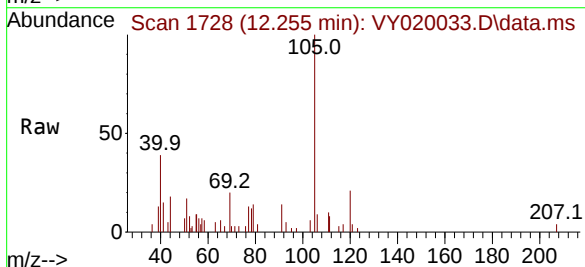
Acq: 28 Oct 2024 11:56

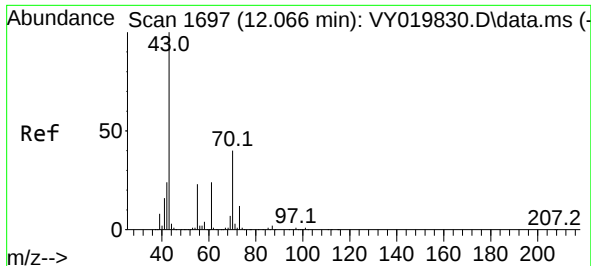
Tgt Ion:105 Resp: 3314

Ion Ratio Lower Upper

105 100

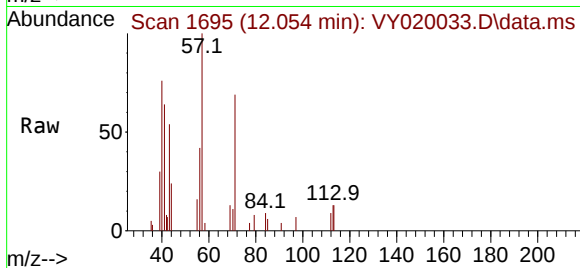
120 30.7 13.4 40.1



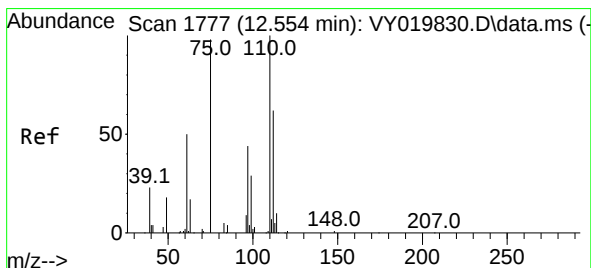
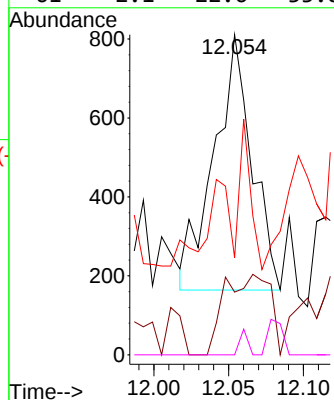
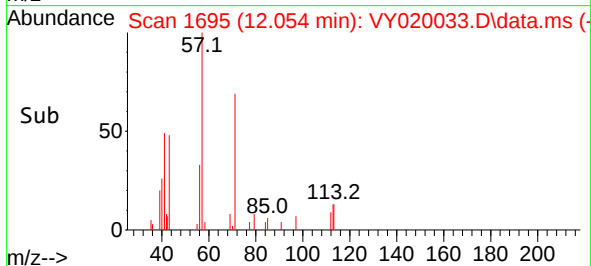


#74  
N-amy1 acetate  
Concen: 5.909 ug/l  
RT: 12.054 min Scan# 1753  
Delta R.T. -0.018 min  
Lab File: VY020033.D  
Acq: 28 Oct 2024 11:56

Instrument :  
MSVOA\_Y  
ClientSampleId :

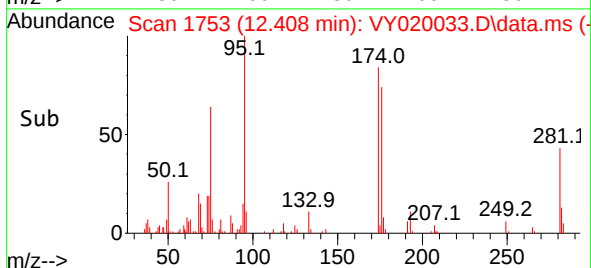
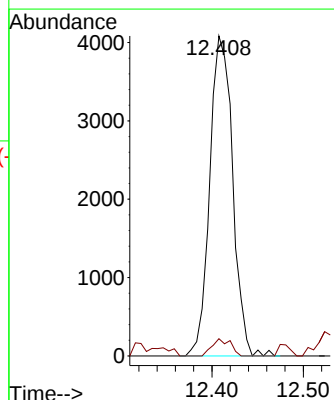
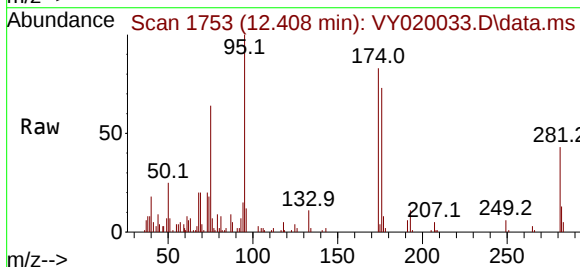


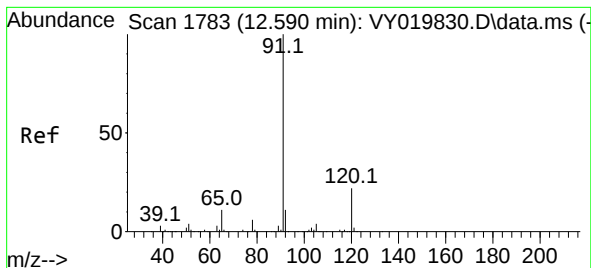
|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 1141  |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 70 37.7     | 41.4 62.2#  |
| 55 0.0      | 23.3 34.9#  |
| 61 2.1      | 22.6 33.8#  |



#76  
1,2,3-Trichloropropane  
Concen: 41.807 ug/l  
RT: 12.408 min Scan# 1753  
Delta R.T. -0.152 min  
Lab File: VY020033.D  
Acq: 28 Oct 2024 11:56

|             |            |       |  |
|-------------|------------|-------|--|
| Tgt Ion: 75 | Resp: 7099 |       |  |
| Ion Ratio   | Lower      | Upper |  |
| 75 100      |            |       |  |
| 77 4.4      | 0.0        | 0.0#  |  |





#78

n-propylbenzene

Concen: 1.717 ug/l

RT: 12.590 min Scan# 1815

Delta R.T. -0.006 min

Lab File: VY020033.D

Acq: 28 Oct 2024 11:56

Instrument :

MSVOA\_Y

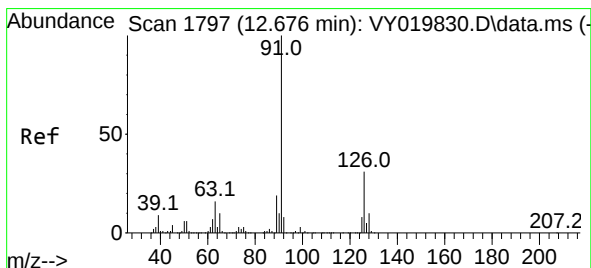
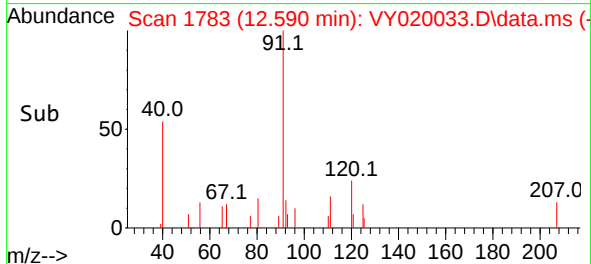
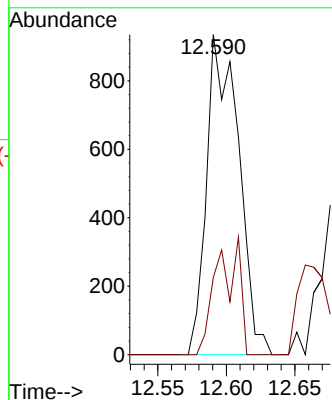
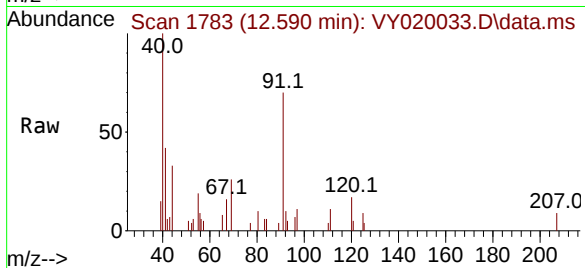
ClientSampleId :

Tgt Ion: 91 Resp: 1513

Ion Ratio Lower Upper

91 100

120 26.4 11.5 34.4



#79

2-Chlorotoluene

Concen: 1.697 ug/l

RT: 12.786 min Scan# 1815

Delta R.T. 0.104 min

Lab File: VY020033.D

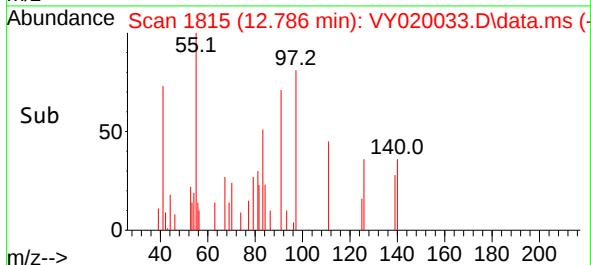
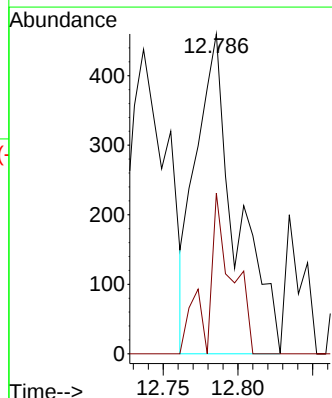
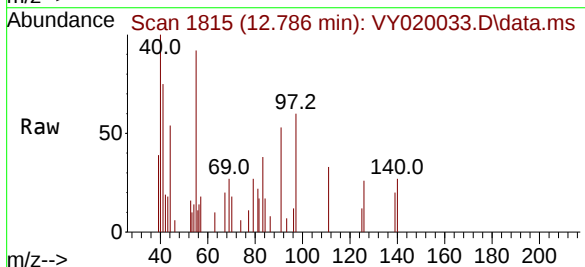
Acq: 28 Oct 2024 11:56

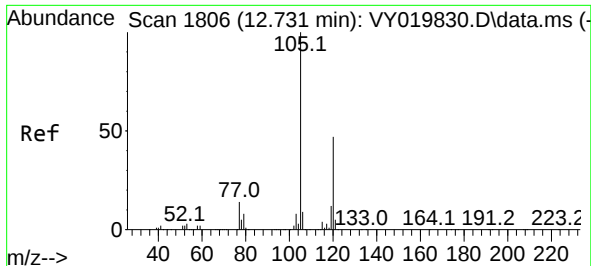
Tgt Ion: 91 Resp: 857

Ion Ratio Lower Upper

91 100

126 31.0 17.8 53.5

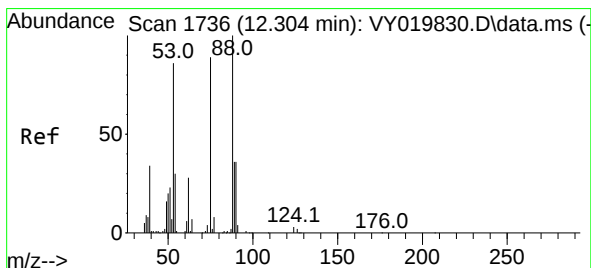
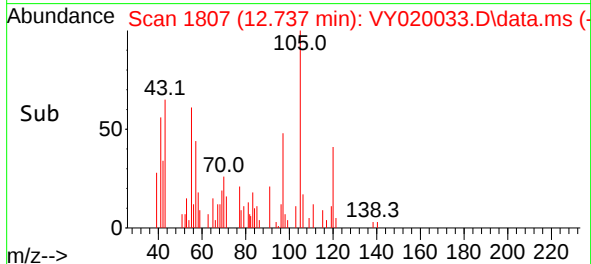
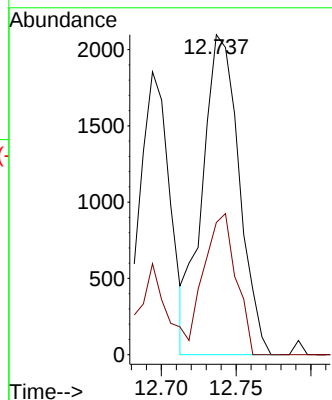
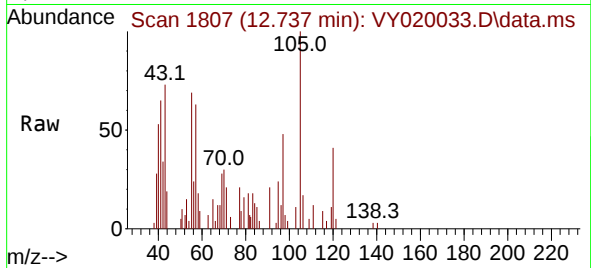




#80  
1,3,5-Trimethylbenzene  
Concen: 6.114 ug/l  
RT: 12.737 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VY020033.D  
Acq: 28 Oct 2024 11:56

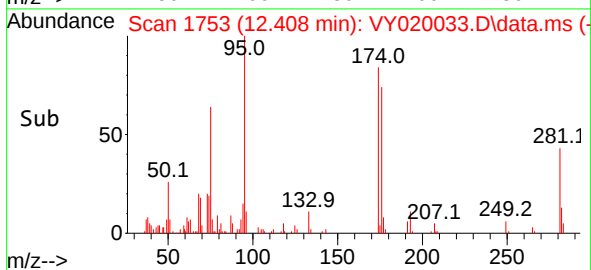
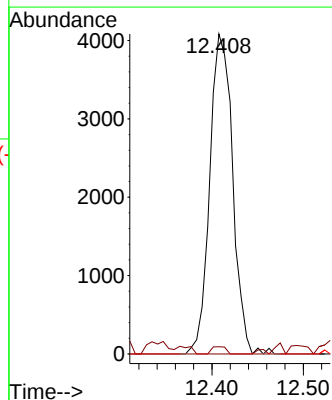
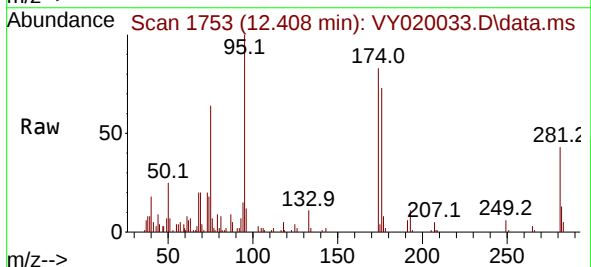
Instrument :  
MSVOA\_Y  
ClientSampleId :

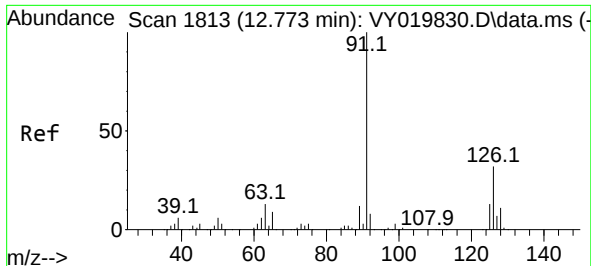
Tgt Ion:105 Resp: 3600  
Ion Ratio Lower Upper  
105 100  
120 38.1 25.1 75.2



#81  
trans-1,4-Dichloro-2-butene  
Concen: 168.748 ug/l  
RT: 12.408 min Scan# 1753  
Delta R.T. 0.104 min  
Lab File: VY020033.D  
Acq: 28 Oct 2024 11:56

Tgt Ion: 75 Resp: 7099  
Ion Ratio Lower Upper  
75 100  
53 1.4 66.8 100.2#  
89 0.0 35.8 53.6#

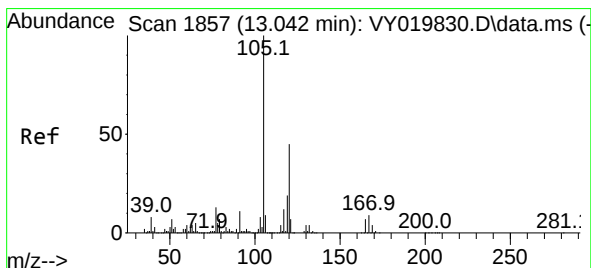
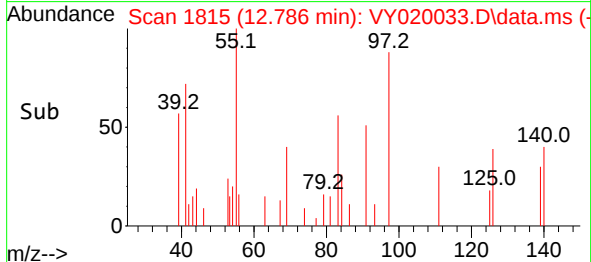
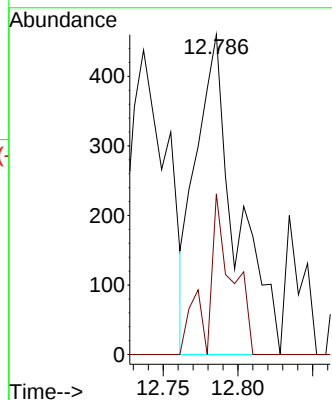
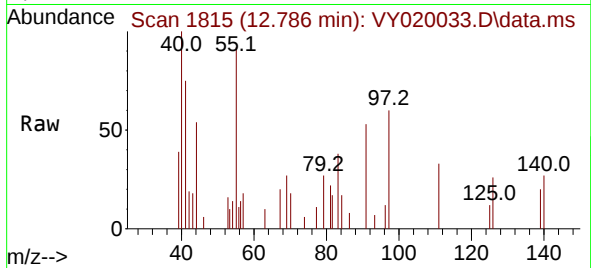




#82  
4-Chlorotoluene  
Concen: 1.659 ug/l  
RT: 12.786 min Scan# 1815  
Delta R.T. 0.006 min  
Lab File: VY020033.D  
Acq: 28 Oct 2024 11:56

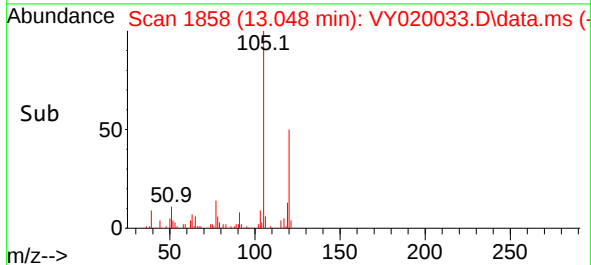
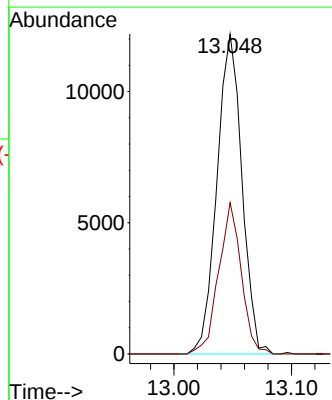
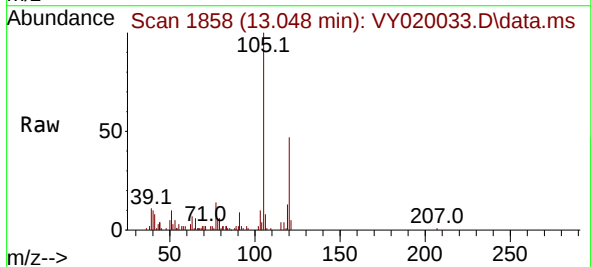
Instrument :  
MSVOA\_Y  
ClientSampleId :

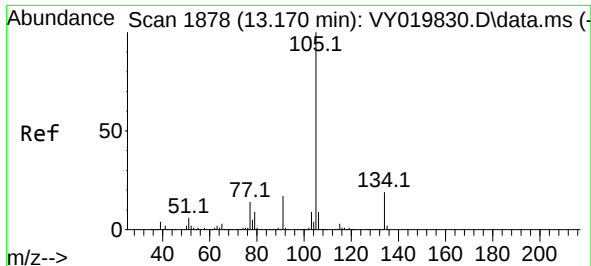
Tgt Ion: 91 Resp: 857  
Ion Ratio Lower Upper  
91 100  
126 31.0 17.6 52.9



#84  
1,2,4-Trimethylbenzene  
Concen: 30.825 ug/l  
RT: 13.048 min Scan# 1858  
Delta R.T. 0.000 min  
Lab File: VY020033.D  
Acq: 28 Oct 2024 11:56

Tgt Ion: 105 Resp: 17995  
Ion Ratio Lower Upper  
105 100  
120 42.9 23.2 69.6

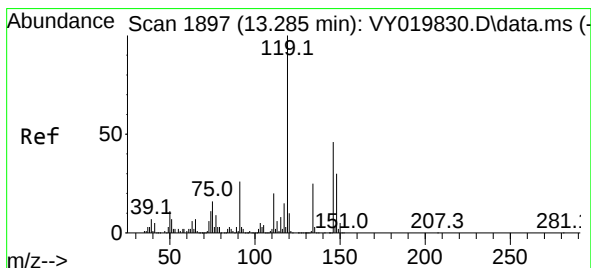
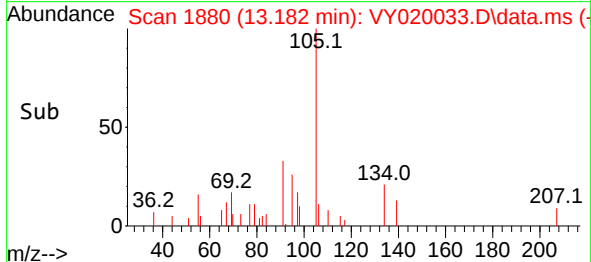
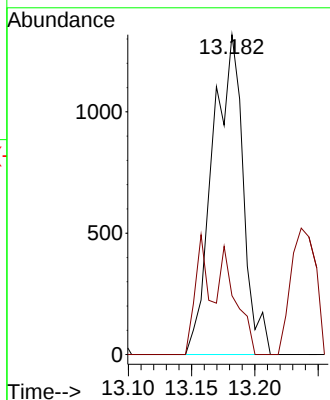
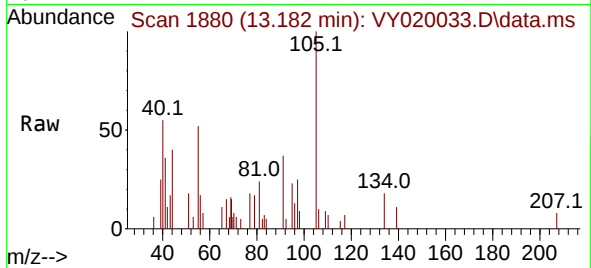




#85  
 sec-Butylbenzene  
 Concen: 2.809 ug/l  
 RT: 13.182 min Scan# 1880  
 Delta R.T. 0.006 min  
 Lab File: VY020033.D  
 Acq: 28 Oct 2024 11:56

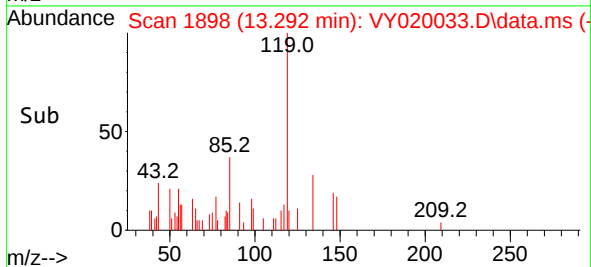
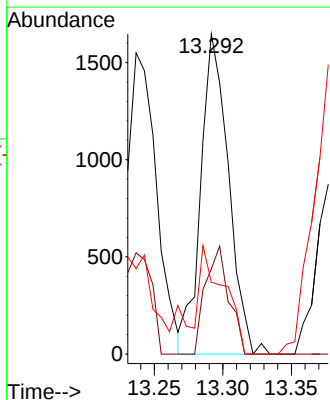
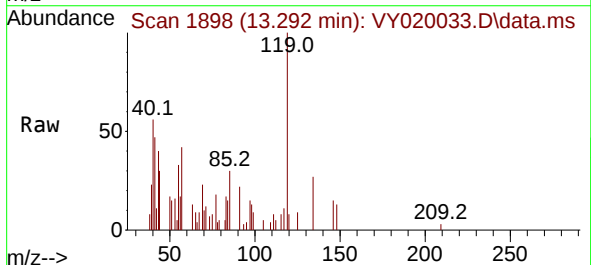
Instrument :  
 MSVOA\_Y  
 ClientSampleId :

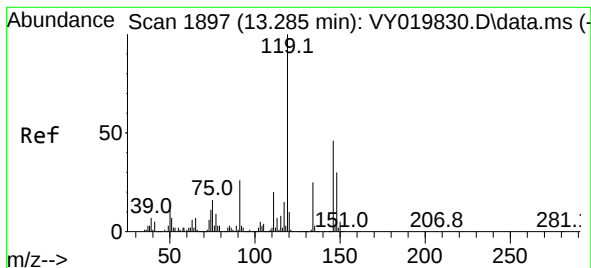
Tgt Ion:105 Resp: 2214  
 Ion Ratio Lower Upper  
 105 100  
 134 17.1 10.1 30.1



#86  
 p-Isopropyltoluene  
 Concen: 3.631 ug/l  
 RT: 13.292 min Scan# 1898  
 Delta R.T. 0.000 min  
 Lab File: VY020033.D  
 Acq: 28 Oct 2024 11:56

Tgt Ion:119 Resp: 2324  
 Ion Ratio Lower Upper  
 119 100  
 134 28.4 13.1 39.3  
 91 31.4 10.7 32.1





#87

1,3-Dichlorobenzene

Concen: 1.357 ug/l

RT: 13.298 min Scan# 1899

Delta R.T. 0.006 min

Lab File: VY020033.D

Acq: 28 Oct 2024 11:56

Instrument :

MSVOA\_Y

ClientSampleId :

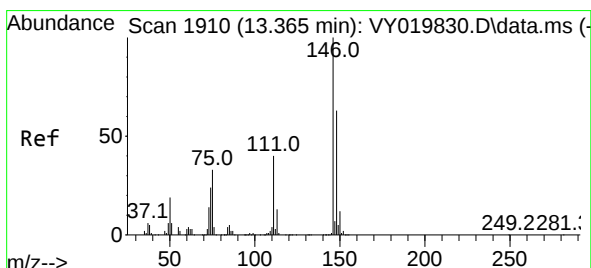
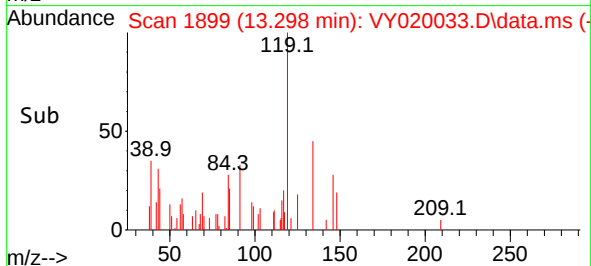
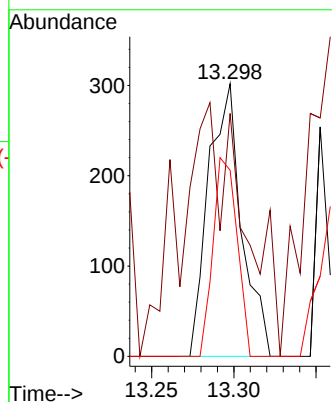
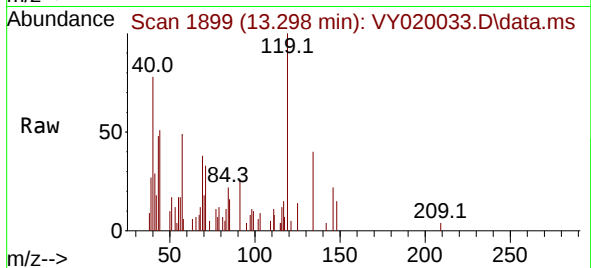
Tgt Ion:146 Resp: 424

Ion Ratio Lower Upper

146 100

111 176.7 19.0 57.0#

148 52.8 31.7 95.1



#88

1,4-Dichlorobenzene

Concen: 1.834 ug/l

RT: 13.371 min Scan# 1911

Delta R.T. 0.000 min

Lab File: VY020033.D

Acq: 28 Oct 2024 11:56

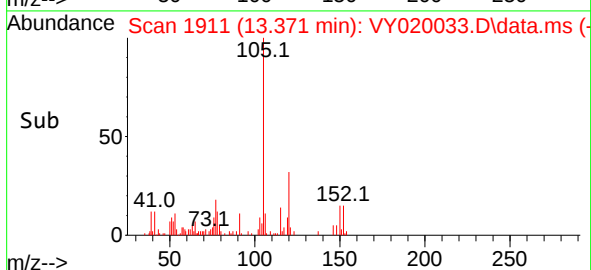
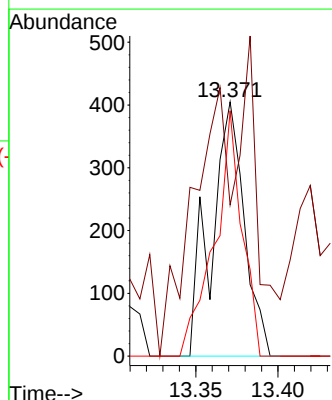
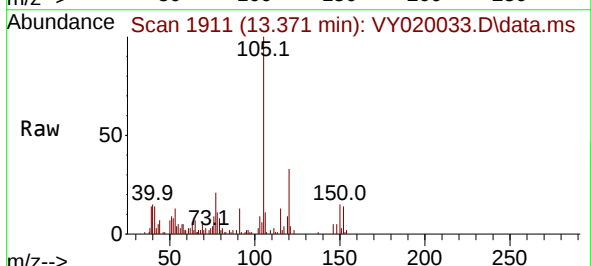
Tgt Ion:146 Resp: 563

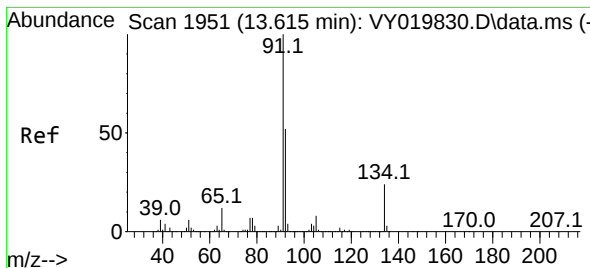
Ion Ratio Lower Upper

146 100

111 116.5 18.4 55.4#

148 81.2 32.4 97.2





#89

n-Butylbenzene

Concen: 15.612 ug/l

RT: 13.615 min Scan# 1951

Delta R.T. -0.006 min

Lab File: VY020033.D

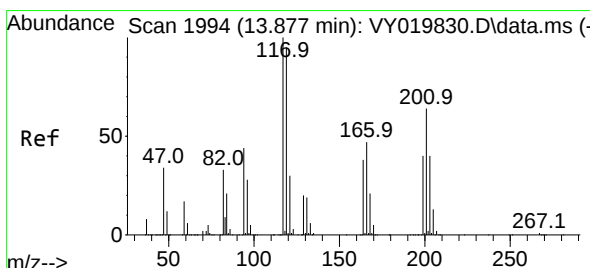
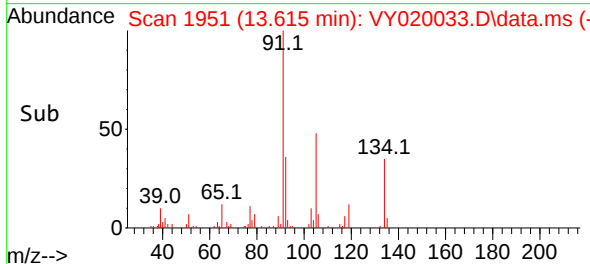
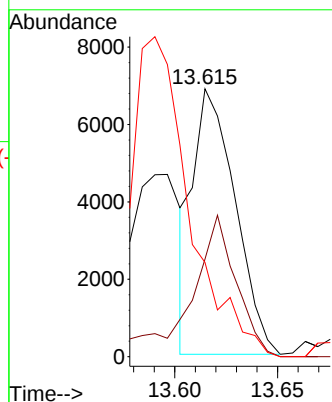
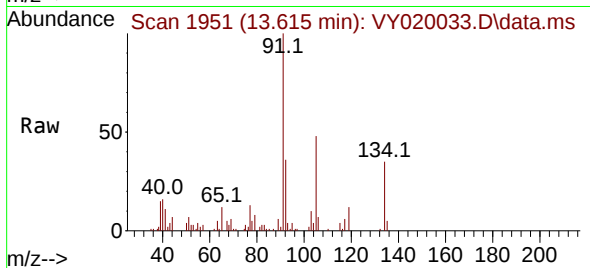
Acq: 28 Oct 2024 11:56

Instrument :

MSVOA\_Y

ClientSampleId :

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 91    | Resp: | 9756  |
| Ion Ratio | Lower | Upper |       |
| 91        | 100   |       |       |
| 92        | 57.3  | 26.6  | 79.7  |
| 134       | 0.0   | 12.9  | 38.7# |



#90

Hexachloroethane

Concen: 62.570 ug/l

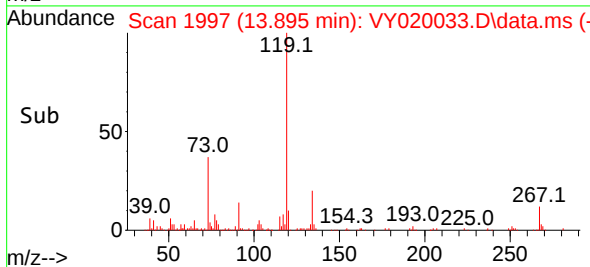
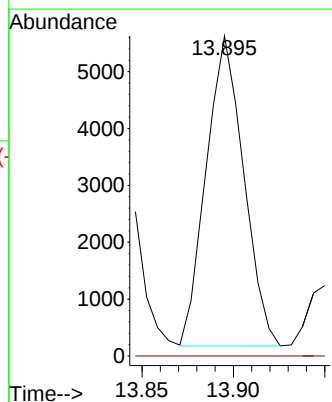
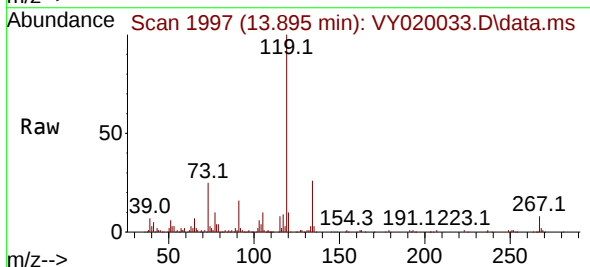
RT: 13.895 min Scan# 1997

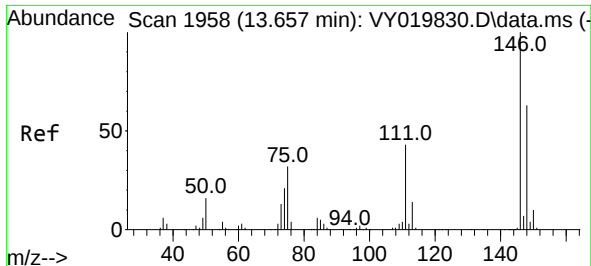
Delta R.T. 0.012 min

Lab File: VY020033.D

Acq: 28 Oct 2024 11:56

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 117   | Resp: | 7797   |
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 201       | 0.0   | 37.4  | 112.2# |





#91

1,2-Dichlorobenzene

Concen: 1.792 ug/l

RT: 13.663 min Scan# 1959

Delta R.T. 0.006 min

Lab File: VY020033.D

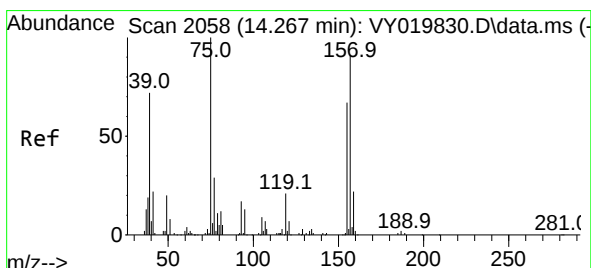
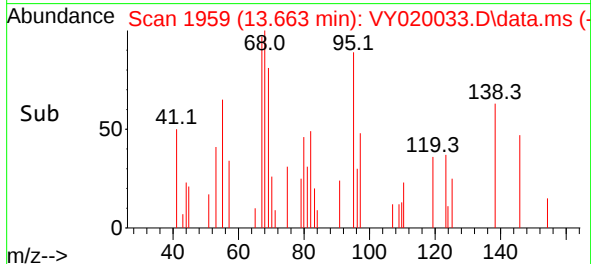
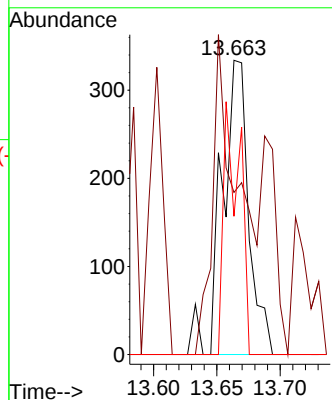
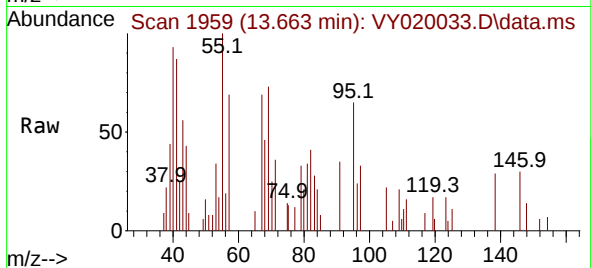
Acq: 28 Oct 2024 11:56

Instrument :

MSVOA\_Y

ClientSampleId :

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:146 | Resp: | 492         |
| Ion         | Ratio | Lower Upper |
| 146         | 100   |             |
| 111         | 104.7 | 19.9 59.7#  |
| 148         | 52.2  | 31.8 95.4   |



#92

1,2-Dibromo-3-Chloropropane

Concen: 42.998 ug/l

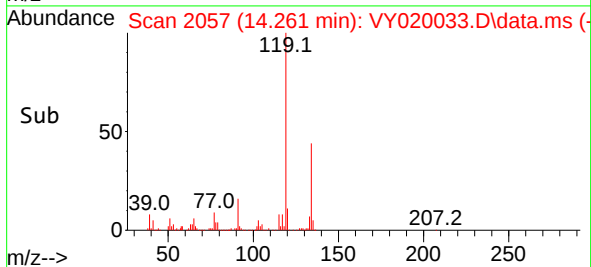
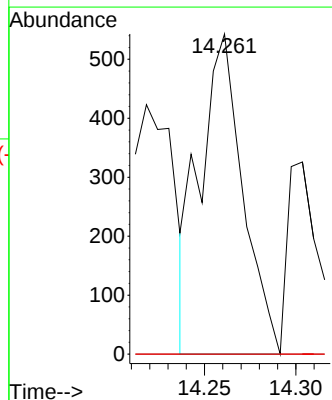
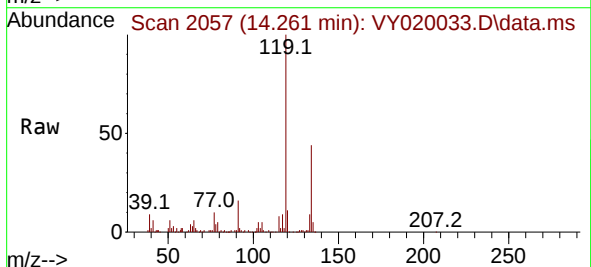
RT: 14.261 min Scan# 2057

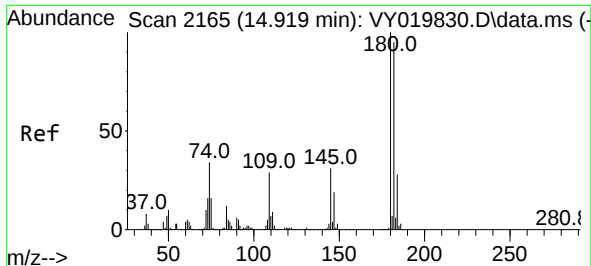
Delta R.T. -0.012 min

Lab File: VY020033.D

Acq: 28 Oct 2024 11:56

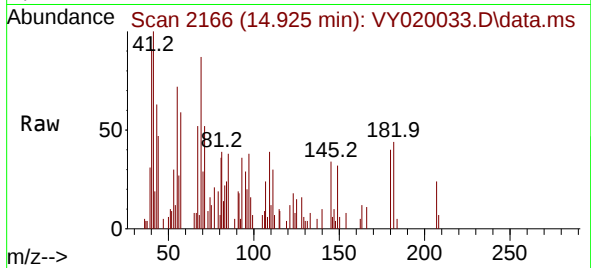
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 75 | Resp: | 889         |
| Ion         | Ratio | Lower Upper |
| 75          | 100   |             |
| 155         | 0.0   | 48.6 145.8# |
| 157         | 0.0   | 62.7 188.2# |



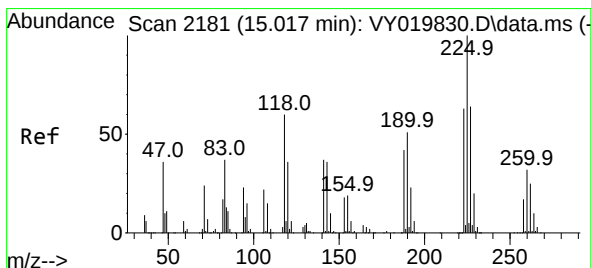
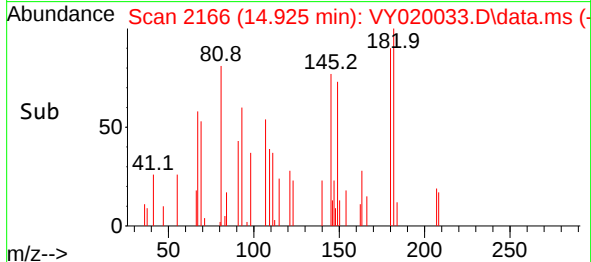
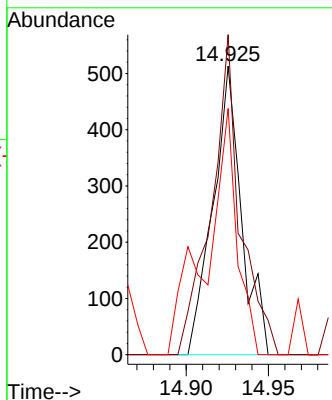


#93  
 1,2,4-Trichlorobenzene  
 Concen: 4.034 ug/l  
 RT: 14.925 min Scan# 2166  
 Delta R.T. 0.006 min  
 Lab File: VY020033.D  
 Acq: 28 Oct 2024 11:56

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

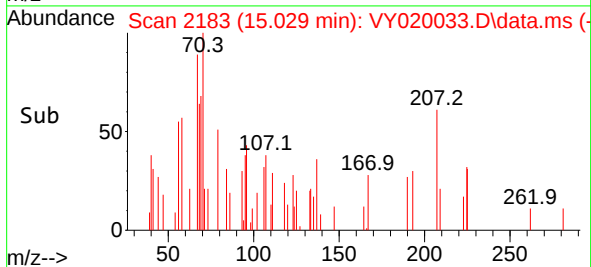
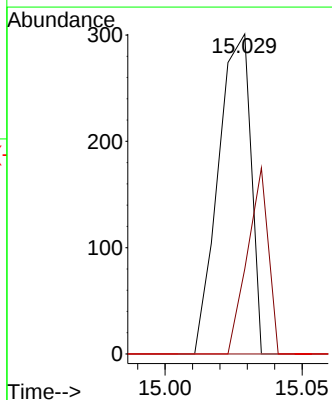
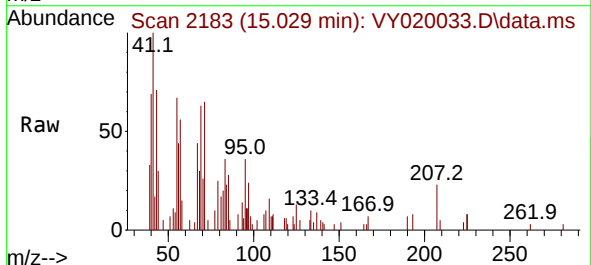


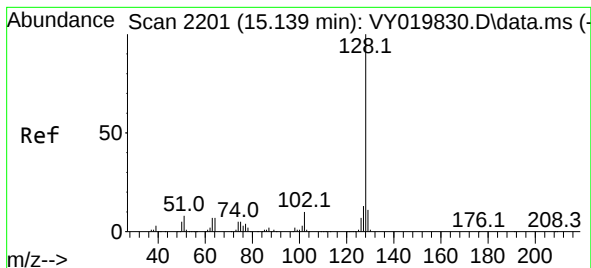
Tgt Ion:180 Resp: 621  
 Ion Ratio Lower Upper  
 180 100  
 182 113.0 47.9 143.8  
 145 91.1 14.2 42.6#



#94  
 Hexachlorobutadiene  
 Concen: 2.898 ug/l  
 RT: 15.029 min Scan# 2183  
 Delta R.T. 0.006 min  
 Lab File: VY020033.D  
 Acq: 28 Oct 2024 11:56

Tgt Ion:225 Resp: 248  
 Ion Ratio Lower Upper  
 225 100  
 223 37.5 30.4 91.2  
 227 0.0 31.9 95.9#





#95

Naphthalene

Concen: 35.090 ug/l

RT: 15.151 min Scan# 21

Delta R.T. 0.006 min

Lab File: VY020033.D

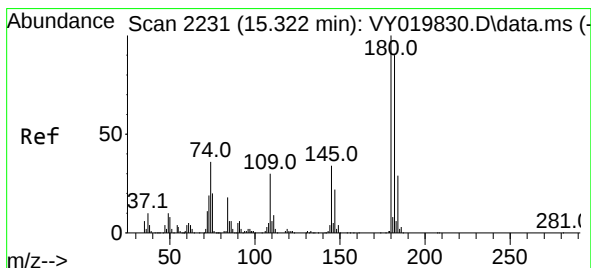
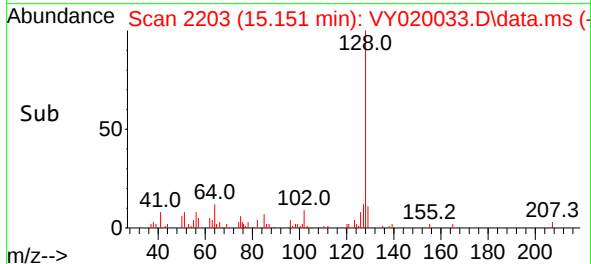
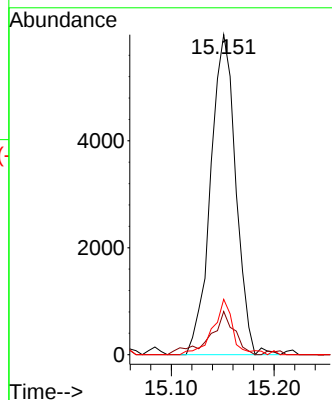
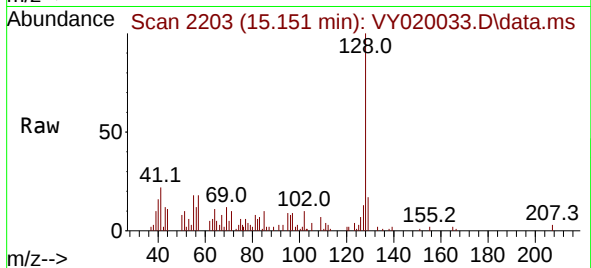
Acq: 28 Oct 2024 11:56

Instrument :

MSVOA\_Y

ClientSampleId :

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 10188 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 127       | 13.0  | 10.6  | 16.0  |
| 129       | 14.0  | 8.6   | 13.0  |



#96

1,2,3-Trichlorobenzene

Concen: 6.962 ug/l

RT: 15.328 min Scan# 2232

Delta R.T. 0.000 min

Lab File: VY020033.D

Acq: 28 Oct 2024 11:56

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 180   | Resp: | 906   |
| Ion Ratio | Lower | Upper |       |
| 180       | 100   |       |       |
| 182       | 75.6  | 47.6  | 142.9 |
| 145       | 44.6  | 15.4  | 46.1  |

