

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW103123\  
 Data File : VW032790.D  
 Acq On : 31 Oct 2023 11:17  
 Operator : SY/MD  
 Sample : VSTDICV050  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Nov 01 05:38:38 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM103123WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Nov 01 05:32:45 2023  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.535   | 114   | 339672   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.786   | 117   | 368388   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.188  | 152   | 203296   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.278   | 65    | 148218   | 45.878   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 91.760%  |
| 7) Chloroethane-d5            | 1.532   | 69    | 129190   | 47.812   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 95.620%  |
| 11) 1,1-Dichloroethene-d2     | 2.059   | 65    | 59160    | 44.333   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 88.660%  |
| 21) 2-Butanone-d5             | 3.783   | 46    | 154516   | 110.263  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 110.260% |
| 24) Chloroform-d              | 4.249   | 84    | 254402   | 49.333   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 98.660%  |
| 26) 1,2-Dichloroethane-d4     | 4.940   | 65    | 165856   | 51.749   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 103.500% |
| 32) Benzene-d6                | 4.960   | 84    | 492691   | 52.017   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 104.040% |
| 36) 1,2-Dichloropropane-d6    | 5.989   | 67    | 146729   | 50.990   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 101.980% |
| 41) Toluene-d8                | 7.243   | 98    | 496089   | 53.191   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 106.380% |
| 43) trans-1,3-Dichloroprop... | 7.551   | 79    | 83349    | 55.615   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 111.240% |
| 47) 2-Hexanone-d5             | 8.024   | 63    | 123305   | 117.374  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 117.370% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.152  | 84    | 230562   | 52.800   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 105.600% |
| 66) 1,2-Dichlorobenzene-d4    | 11.561  | 152   | 199742   | 50.985   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 101.980% |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.108   | 85    | 131164   | 43.885   | ug/L   | 99       |
| 3) Chloromethane              | 1.217   | 50    | 135527   | 46.871   | ug/L   | 98       |
| 5) Vinyl chloride             | 1.285   | 62    | 138968   | 45.073   | ug/L   | 99       |
| 6) Bromomethane               | 1.484   | 94    | 99787    | 46.384   | ug/L   | 97       |
| 8) Chloroethane               | 1.548   | 64    | 96968    | 46.718   | ug/L   | 99       |
| 9) Trichlorofluoromethane     | 1.712   | 101   | 213713   | 43.496   | ug/L   | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.069   | 101   | 130493   | 43.893   | ug/L   | 99       |
| 12) 1,1-Dichloroethene        | 2.069   | 96    | 110512   | 43.500   | ug/L   | 98       |
| 13) Acetone                   | 2.111   | 43    | 222995   | 95.069   | ug/L   | 100      |
| 14) Carbon disulfide          | 2.240   | 76    | 288282   | 47.535   | ug/L   | 99       |
| 15) Methyl Acetate            | 2.371   | 43    | 124246   | 52.242   | ug/L   | 99       |
| 16) Methylene chloride        | 2.445   | 84    | 149443   | 44.348   | ug/L   | 99       |
| 17) trans-1,2-Dichloroethene  | 2.693   | 96    | 113524   | 46.818   | ug/L   | 96       |
| 18) Methyl tert-butyl Ether   | 2.703   | 73    | 385103   | 53.778   | ug/L   | 99       |
| 19) 1,1-Dichloroethane        | 3.111   | 63    | 216652   | 46.884   | ug/L   | 99       |
| 20) cis-1,2-Dichloroethene    | 3.815   | 96    | 130315   | 48.662   | ug/L   | 100      |
| 22) 2-Butanone                | 3.863   | 43    | 206164   | 103.641  | ug/L   | 99       |
| 23) Bromochloromethane        | 4.146   | 128   | 75391    | 50.439   | ug/L   | 95       |
| 25) Chloroform                | 4.275   | 83    | 245954   | 46.699   | ug/L   | 97       |

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 Data File : VW032790.D  
 Acq On : 31 Oct 2023 11:17  
 Operator : SY/MD  
 Sample : VSTDICV050  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 8 Sample Multiplier: 1

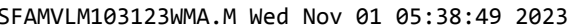
Instrument :  
 MSVOA\_V  
 ClientSampleId :

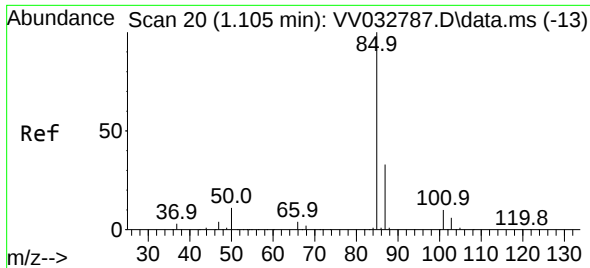
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 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM103123WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Nov 01 05:32:45 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 27) 1,2-Dichloroethane        | 5.040  | 62   | 194890   | 51.346  | ug/L   | 99       |
| 29) Cyclohexane               | 4.583  | 56   | 161027   | 48.636  | ug/L # | 92       |
| 30) 1,1,1-Trichloroethane     | 4.513  | 97   | 203940   | 46.207  | ug/L   | 99       |
| 31) Carbon tetrachloride      | 4.735  | 117  | 175680   | 45.045  | ug/L   | 99       |
| 33) Benzene                   | 5.008  | 78   | 496303   | 50.807  | ug/L   | 100      |
| 34) Trichloroethene           | 5.834  | 95   | 128250   | 47.164  | ug/L   | 97       |
| 35) Methylcyclohexane         | 6.050  | 83   | 208204   | 48.933  | ug/L   | 98       |
| 37) 1,2-Dichloropropane       | 6.091  | 63   | 122334   | 47.179  | ug/L   | 98       |
| 38) Bromodichloromethane      | 6.432  | 83   | 202029   | 49.664  | ug/L   | 99       |
| 39) cis-1,3-Dichloropropene   | 6.953  | 75   | 225639   | 58.005  | ug/L   | 98       |
| 40) 4-Methyl-2-pentanone      | 7.156  | 43   | 363441   | 118.270 | ug/L   | 99       |
| 42) Toluene                   | 7.317  | 91   | 578344   | 51.989  | ug/L   | 100      |
| 44) trans-1,3-Dichloropropene | 7.580  | 75   | 217795   | 54.509  | ug/L   | 100      |
| 45) 1,1,2-Trichloroethane     | 7.770  | 97   | 151674   | 50.997  | ug/L   | 98       |
| 46) Tetrachloroethene         | 7.905  | 164  | 113248   | 46.157  | ug/L   | 98       |
| 48) 2-Hexanone                | 8.075  | 43   | 304006   | 110.261 | ug/L   | 99       |
| 49) Dibromochloromethane      | 8.178  | 129  | 159111   | 51.170  | ug/L   | 98       |
| 50) 1,2-Dibromoethane         | 8.281  | 107  | 160816   | 53.074  | ug/L   | 97       |
| 51) Chlorobenzene             | 8.815  | 112  | 385263   | 48.919  | ug/L   | 99       |
| 52) Ethylbenzene              | 8.947  | 91   | 624540   | 50.894  | ug/L   | 99       |
| 53) m,p-Xylene                | 9.072  | 106  | 241592   | 51.729  | ug/L   | 98       |
| 54) o-Xylene                  | 9.480  | 106  | 232681   | 51.427  | ug/L   | 97       |
| 55) Styrene                   | 9.496  | 104  | 424652   | 53.856  | ug/L   | 97       |
| 57) 1,1,2,2-Tetrachloroethane | 10.178 | 83   | 230945   | 51.846  | ug/L   | 99       |
| 59) Bromoform                 | 9.667  | 173  | 115952   | 50.871  | ug/L   | 98       |
| 60) Isopropylbenzene          | 9.869  | 105  | 631476   | 51.220  | ug/L   | 100      |
| 61) 1,2,3-Trichloropropane    | 10.210 | 75   | 173734   | 51.163  | ug/L   | 99       |
| 62) 1,3,5-Trimethylbenzene    | 10.477 | 105  | 514957   | 53.079  | ug/L   | 98       |
| 63) 1,2,4-Trimethylbenzene    | 10.853 | 105  | 503483   | 54.252  | ug/L   | 100      |
| 64) 1,3-Dichlorobenzene       | 11.117 | 146  | 317750   | 49.472  | ug/L   | 98       |
| 65) 1,4-Dichlorobenzene       | 11.210 | 146  | 328274   | 48.440  | ug/L   | 99       |
| 67) 1,2-Dichlorobenzene       | 11.580 | 146  | 320428   | 48.868  | ug/L   | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 12.365 | 75   | 45424    | 51.399  | ug/L   | 96       |
| 69) 1,3,5-Trichlorobenzene    | 12.583 | 180  | 224946   | 48.514  | ug/L   | 98       |
| 70) 1,2,4-trichlorobenzene    | 13.201 | 180  | 208290   | 51.944  | ug/L   | 99       |
| 71) Naphthalene               | 13.442 | 128  | 610541   | 60.971  | ug/L   | 100      |
| 72) 1,2,3-Trichlorobenzene    | 13.683 | 180  | 213403   | 53.302  | ug/L   | 98       |

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

Quant Time: Nov 01 05:38:38 2023  
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Quant Title : VOC Analysis  
QLast Update : Wed Nov 01 05:32:45 2023  
Response via : Initial Calibration

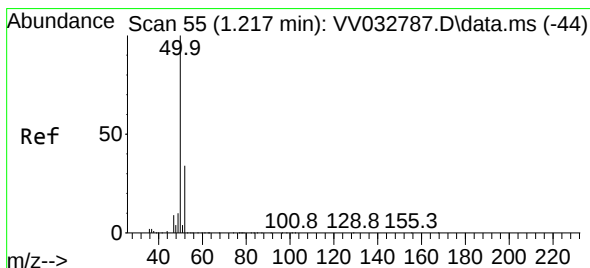
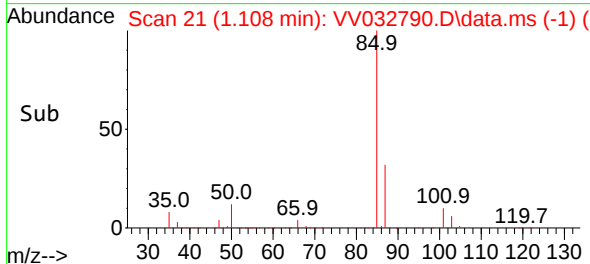
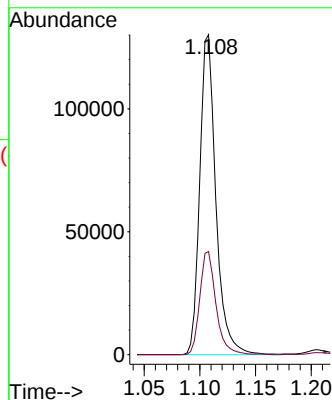
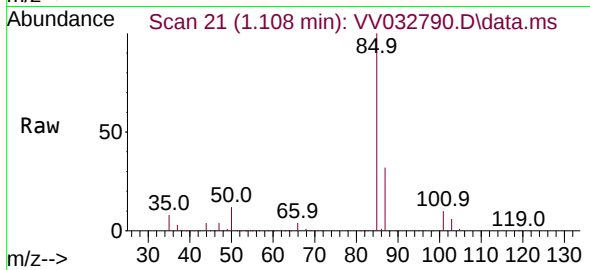




#2  
 Dichlorodifluoromethane  
 Concen: 43.885 ug/L  
 RT: 1.108 min Scan# 21  
 Delta R.T. 0.003 min  
 Lab File: VV032790.D  
 Acq: 31 Oct 2023 11:17

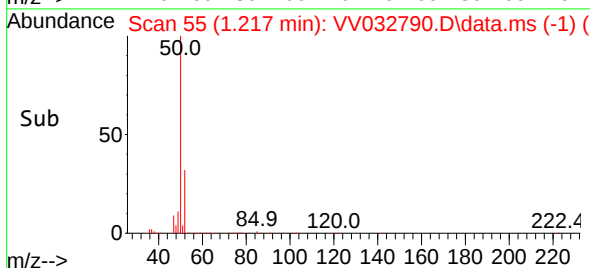
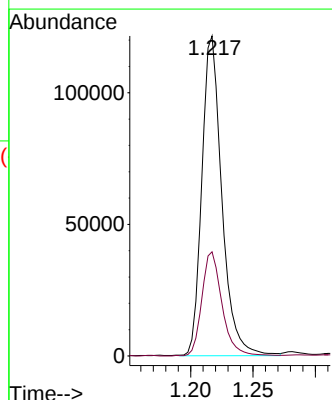
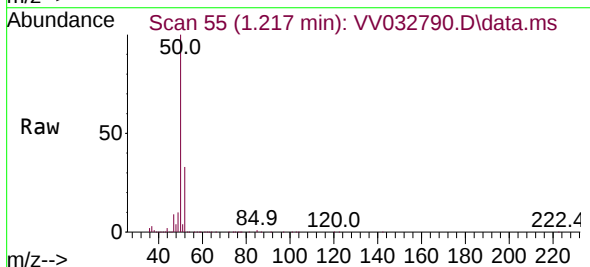
Instrument :  
 MSVOA\_V  
 ClientSampleId :

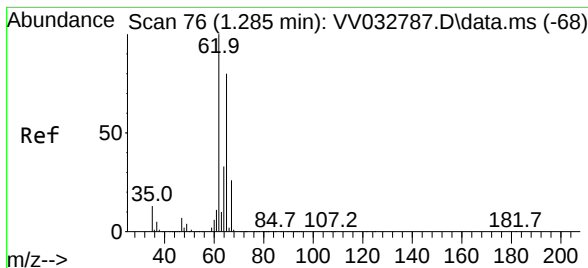
Tgt Ion: 85 Resp: 131164  
 Ion Ratio Lower Upper  
 85 100  
 87 32.3 26.2 39.4



#3  
 Chloromethane  
 Concen: 46.871 ug/L  
 RT: 1.217 min Scan# 55  
 Delta R.T. 0.000 min  
 Lab File: VV032790.D  
 Acq: 31 Oct 2023 11:17

Tgt Ion: 50 Resp: 135527  
 Ion Ratio Lower Upper  
 50 100  
 52 32.6 23.5 43.7





#5

Vinyl chloride

Concen: 45.073 ug/L

RT: 1.285 min Scan# 76

Delta R.T. 0.000 min

Lab File: VV032790.D

Acq: 31 Oct 2023 11:17

Instrument :

MSVOA\_V

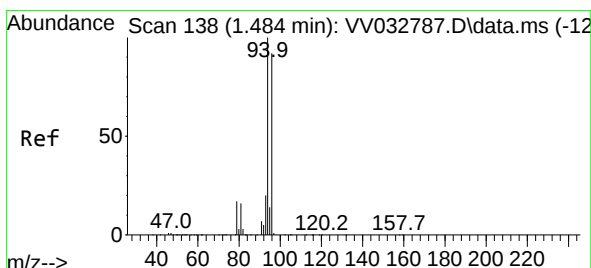
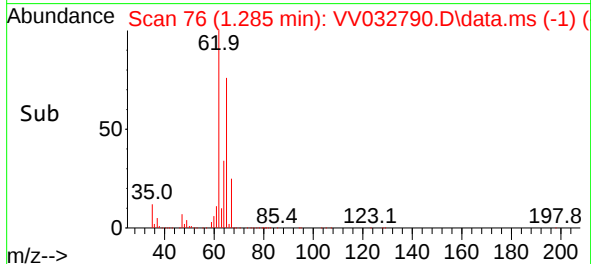
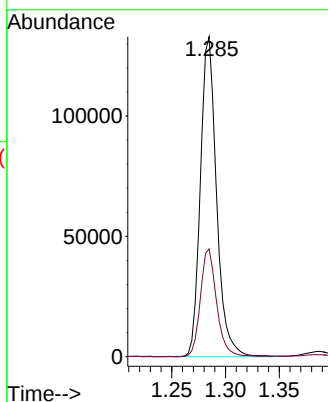
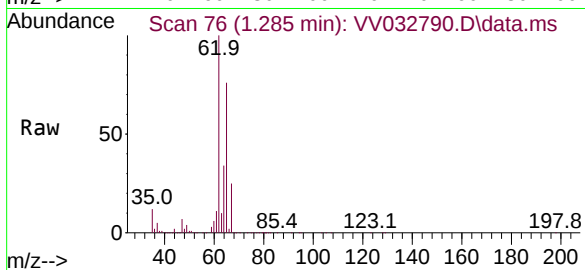
ClientSampleId :

Tgt Ion: 62 Resp: 138968

Ion Ratio Lower Upper

62 100

64 33.7 23.2 43.0



#6

Bromomethane

Concen: 46.384 ug/L

RT: 1.484 min Scan# 138

Delta R.T. 0.000 min

Lab File: VV032790.D

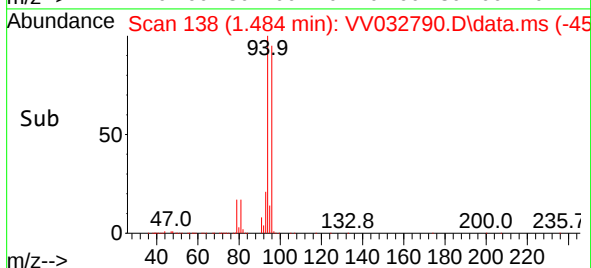
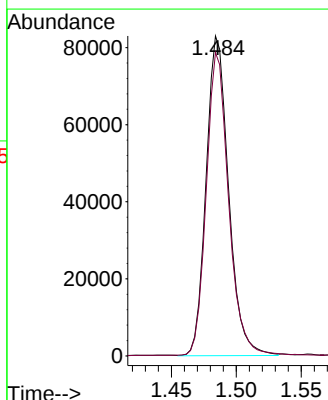
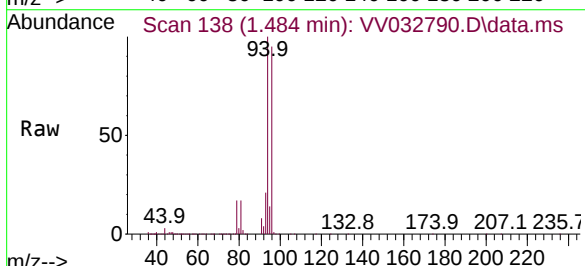
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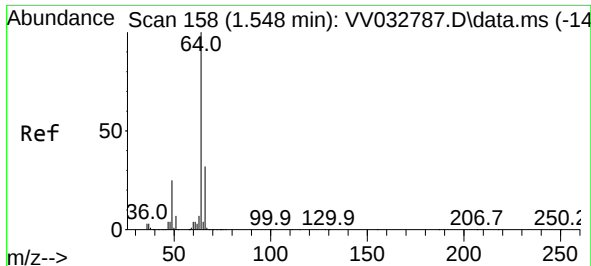
Tgt Ion: 94 Resp: 99787

Ion Ratio Lower Upper

94 100

96 94.8 64.2 119.2

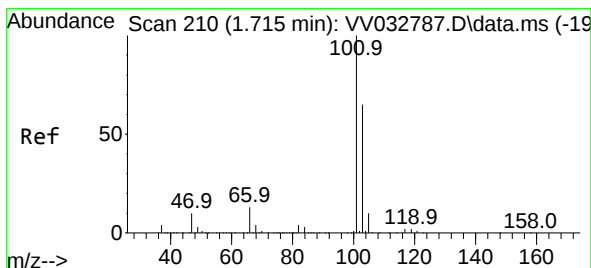
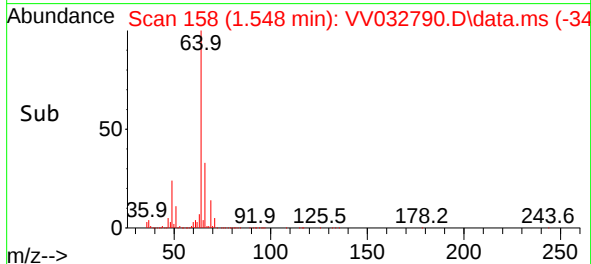
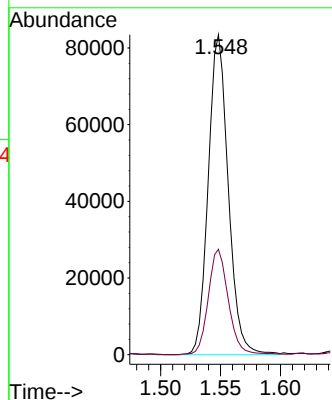
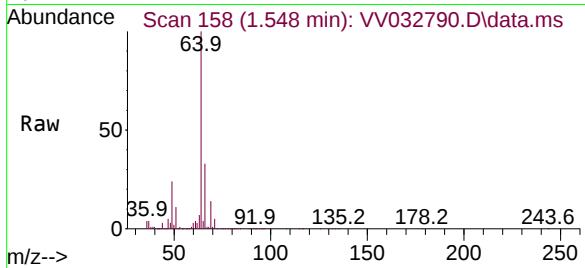




#8  
Chloroethane  
Concen: 46.718 ug/L  
RT: 1.548 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VV032790.D  
Acq: 31 Oct 2023 11:17

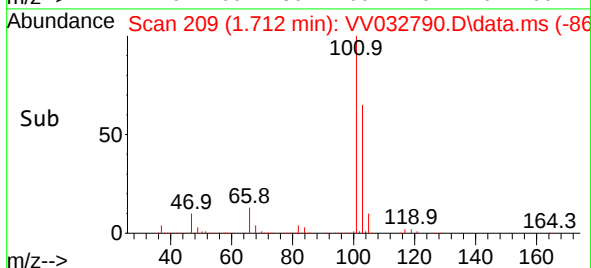
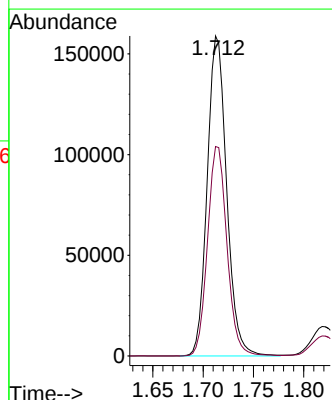
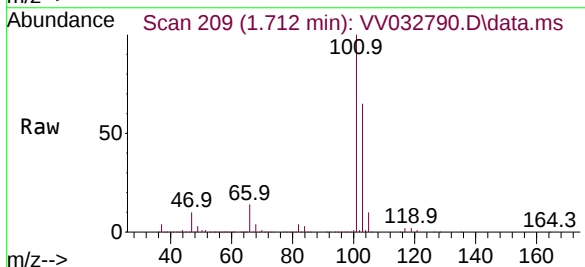
Instrument :  
MSVOA\_V  
ClientSampleId :

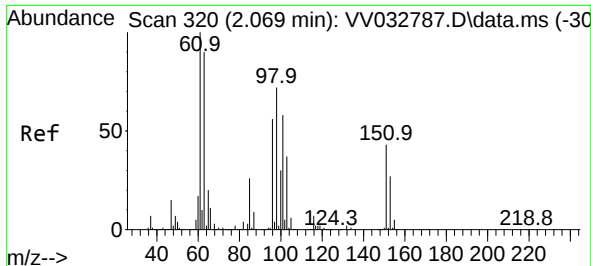
Tgt Ion: 64 Resp: 96968  
Ion Ratio Lower Upper  
64 100  
66 33.0 22.5 41.9



#9  
Trichlorofluoromethane  
Concen: 43.496 ug/L  
RT: 1.712 min Scan# 209  
Delta R.T. -0.003 min  
Lab File: VV032790.D  
Acq: 31 Oct 2023 11:17

Tgt Ion:101 Resp: 213713  
Ion Ratio Lower Upper  
101 100  
103 65.5 51.7 77.5





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 43.893 ug/L

RT: 2.069 min Scan# 31

Delta R.T. 0.000 min

Lab File: VV032790.D

Acq: 31 Oct 2023 11:17

Instrument :

MSVOA\_V

ClientSampleId :

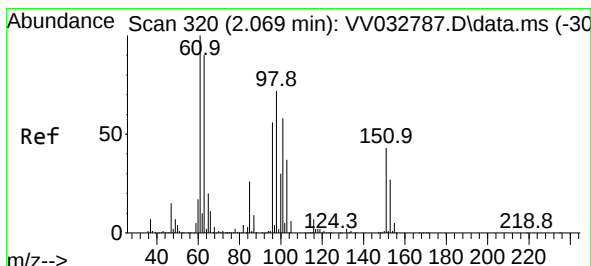
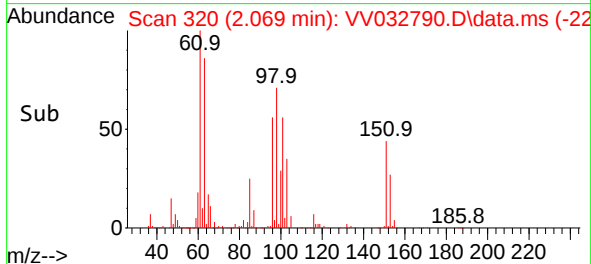
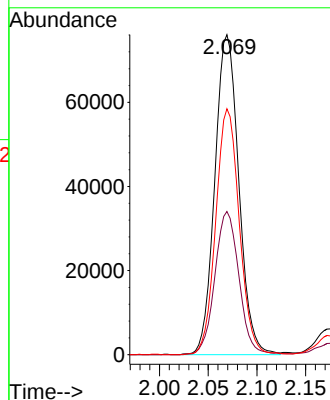
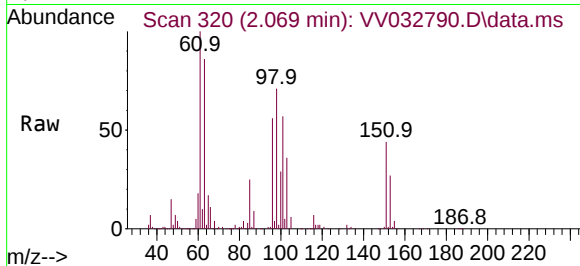
Tgt Ion:101 Resp: 130493

Ion Ratio Lower Upper

101 100

85 44.7 35.6 53.4

151 75.5 59.9 89.9



#12

1,1-Dichloroethene

Concen: 43.500 ug/L

RT: 2.069 min Scan# 320

Delta R.T. 0.000 min

Lab File: VV032790.D

Acq: 31 Oct 2023 11:17

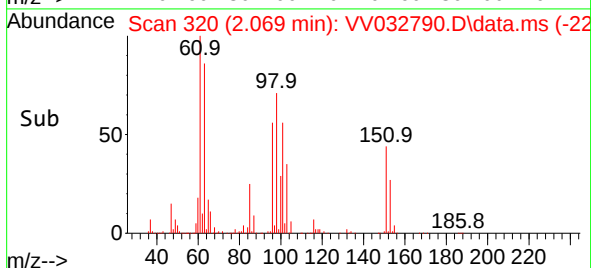
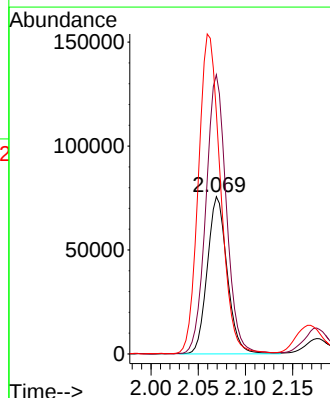
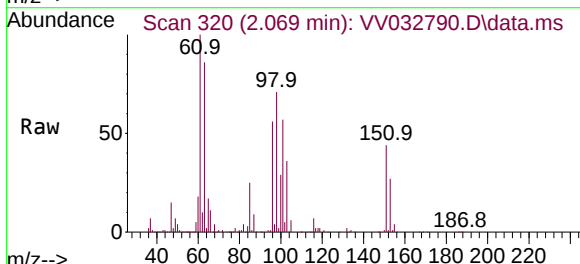
Tgt Ion: 96 Resp: 110512

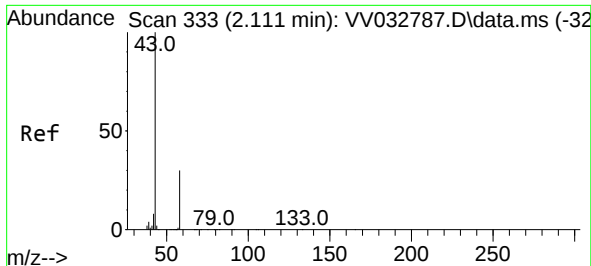
Ion Ratio Lower Upper

96 100

61 177.6 124.2 230.6

63 153.4 111.8 207.6





#13

Acetone

Concen: 95.069 ug/L

RT: 2.111 min Scan# 31

Delta R.T. 0.000 min

Lab File: VV032790.D

Acq: 31 Oct 2023 11:17

Instrument :

MSVOA\_V

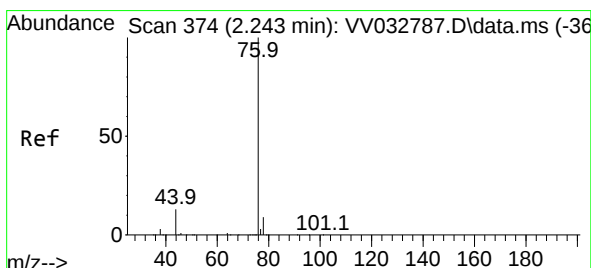
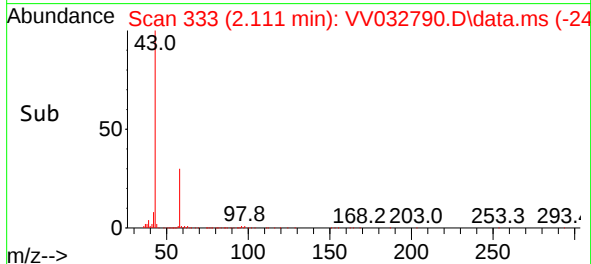
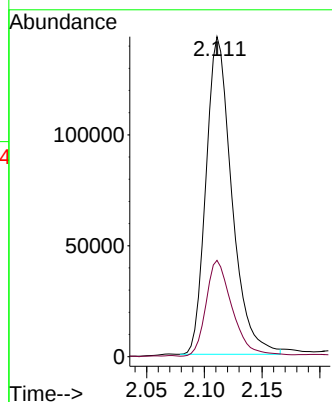
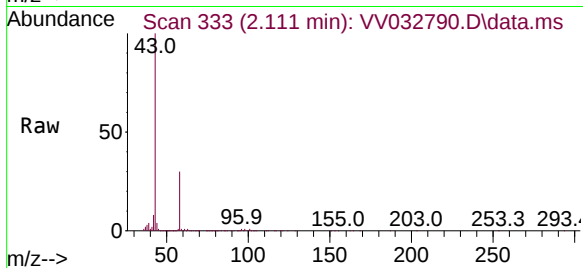
ClientSampleId :

Tgt Ion: 43 Resp: 222995

Ion Ratio Lower Upper

43 100

58 30.8 0.0 61.2



#14

Carbon disulfide

Concen: 47.535 ug/L

RT: 2.240 min Scan# 373

Delta R.T. -0.003 min

Lab File: VV032790.D

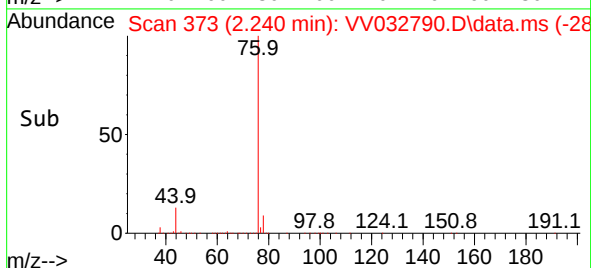
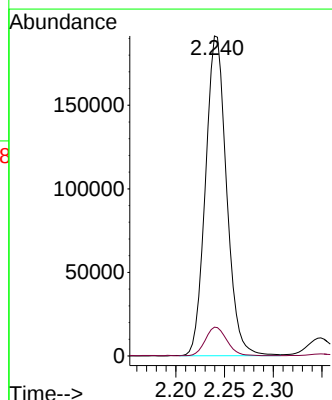
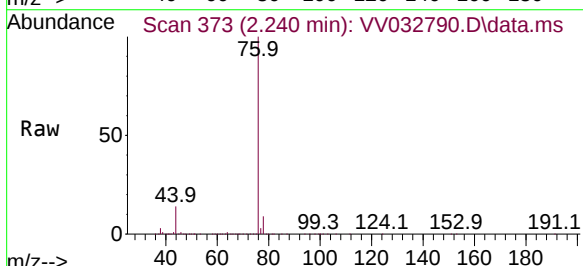
Acq: 31 Oct 2023 11:17

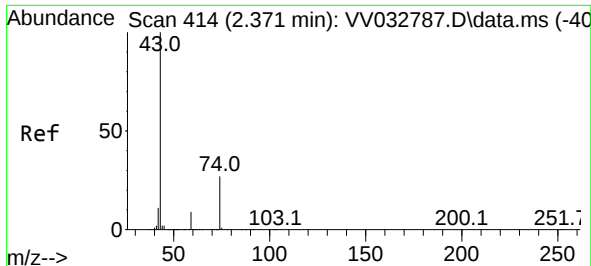
Tgt Ion: 76 Resp: 288282

Ion Ratio Lower Upper

76 100

78 9.0 7.6 11.4

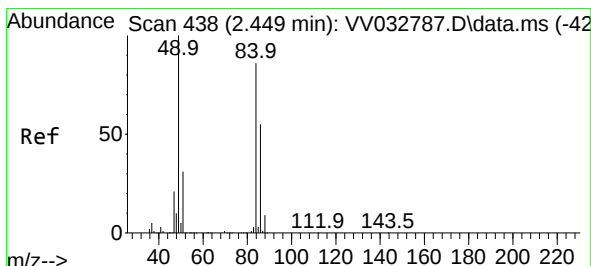
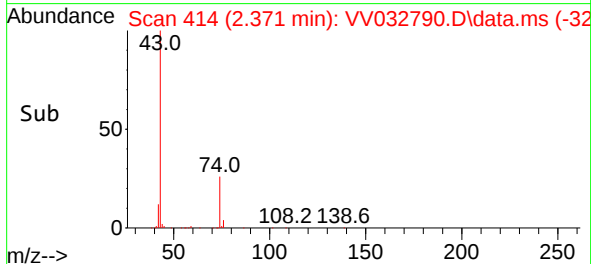
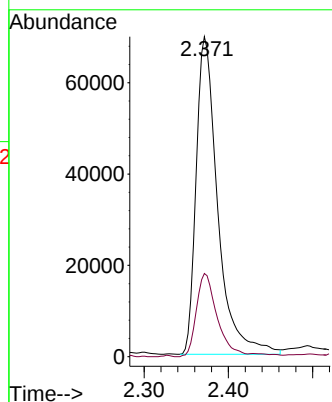
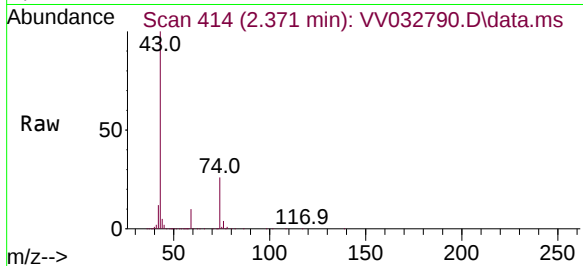




#15  
Methyl Acetate  
Concen: 52.242 ug/L  
RT: 2.371 min Scan# 414  
Delta R.T. 0.000 min  
Lab File: VV032790.D  
Acq: 31 Oct 2023 11:17

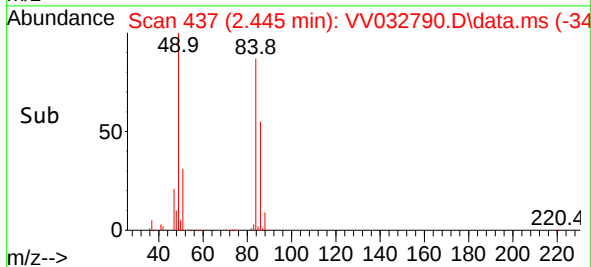
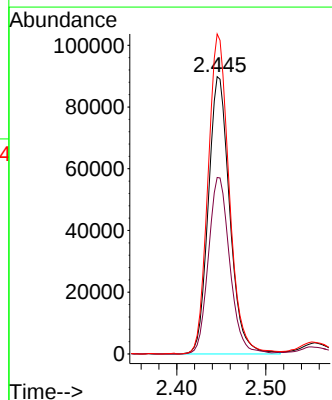
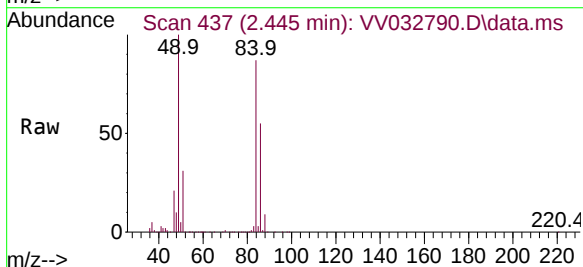
Instrument :  
MSVOA\_V  
ClientSampleId :

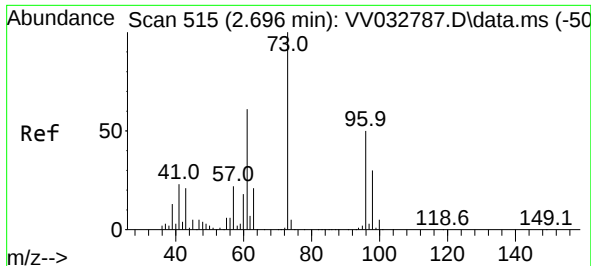
Tgt Ion: 43 Resp: 124246  
Ion Ratio Lower Upper  
43 100  
74 25.0 20.6 30.8



#16  
Methylene chloride  
Concen: 44.348 ug/L  
RT: 2.445 min Scan# 437  
Delta R.T. -0.003 min  
Lab File: VV032790.D  
Acq: 31 Oct 2023 11:17

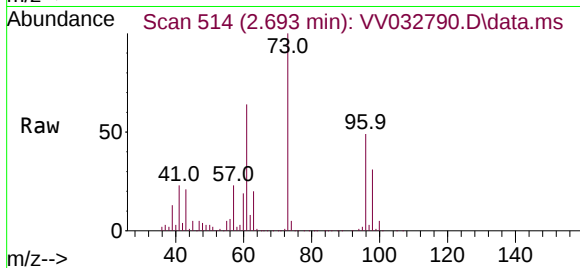
Tgt Ion: 84 Resp: 149443  
Ion Ratio Lower Upper  
84 100  
86 63.6 45.0 83.6  
49 115.4 81.2 150.8



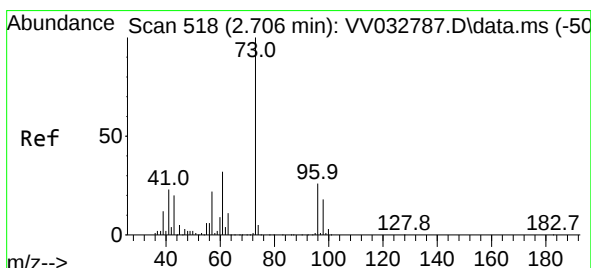
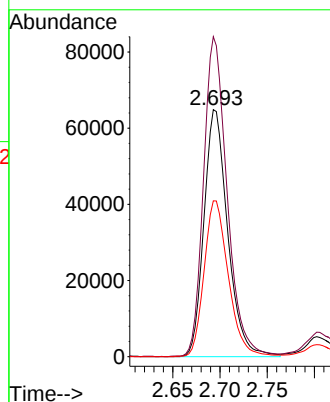
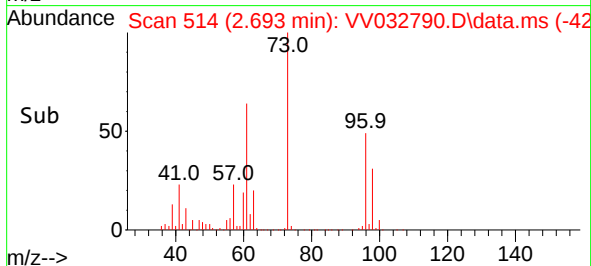


#17  
trans-1,2-Dichloroethene  
Concen: 46.818 ug/L  
RT: 2.693 min Scan# 515  
Delta R.T. -0.003 min  
Lab File: VV032790.D  
Acq: 31 Oct 2023 11:17

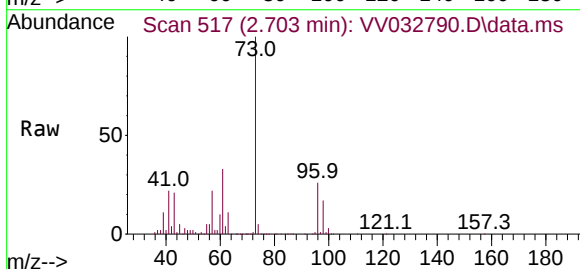
Instrument :  
MSVOA\_V  
ClientSampleId :



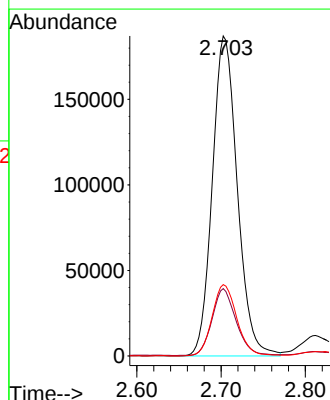
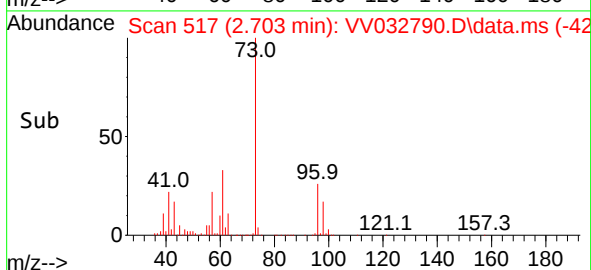
Tgt Ion: 96 Resp: 113524  
Ion Ratio Lower Upper  
96 100  
61 129.5 86.9 161.3  
98 63.1 42.9 79.7

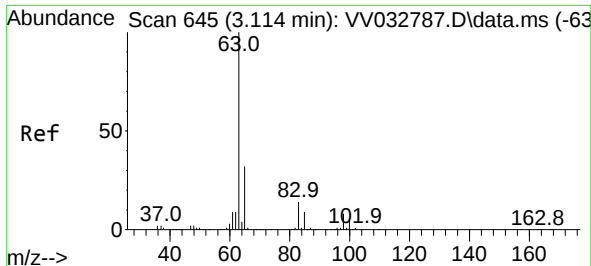


#18  
Methyl tert-butyl Ether  
Concen: 53.778 ug/L  
RT: 2.703 min Scan# 517  
Delta R.T. -0.003 min  
Lab File: VV032790.D  
Acq: 31 Oct 2023 11:17



Tgt Ion: 73 Resp: 385103  
Ion Ratio Lower Upper  
73 100  
43 20.0 16.1 24.1  
57 22.1 17.4 26.0

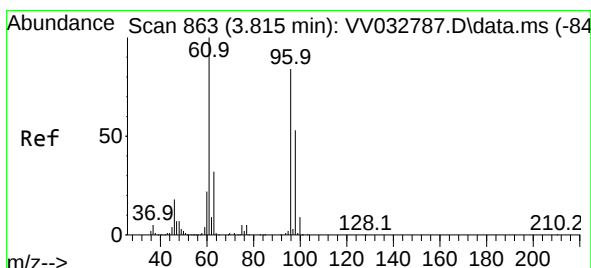
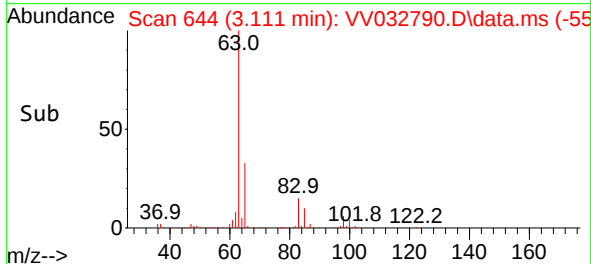
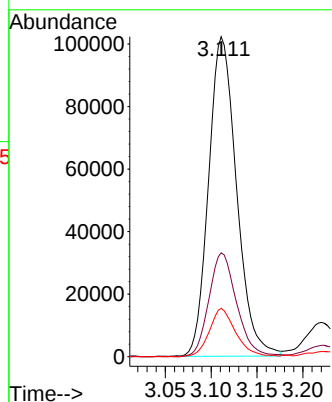
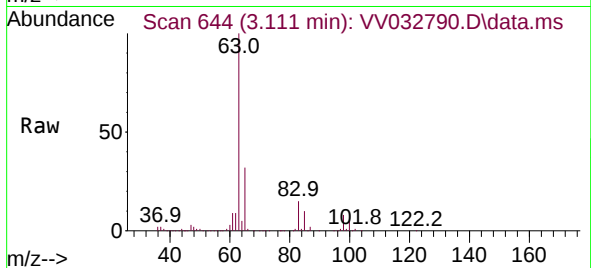




#19  
1,1-Dichloroethane  
Concen: 46.884 ug/L  
RT: 3.111 min Scan# 645  
Delta R.T. -0.003 min  
Lab File: VV032790.D  
Acq: 31 Oct 2023 11:17

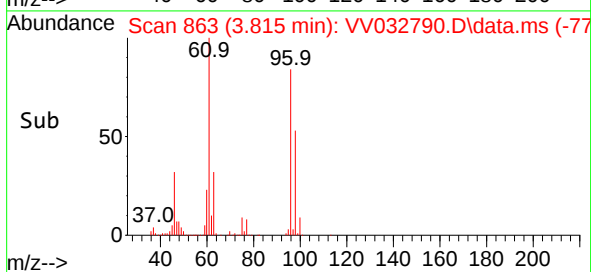
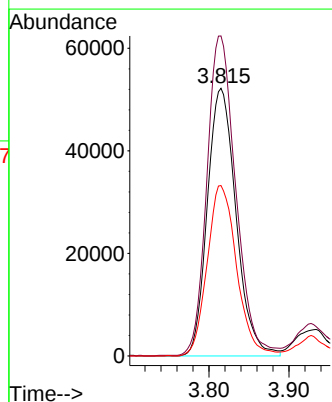
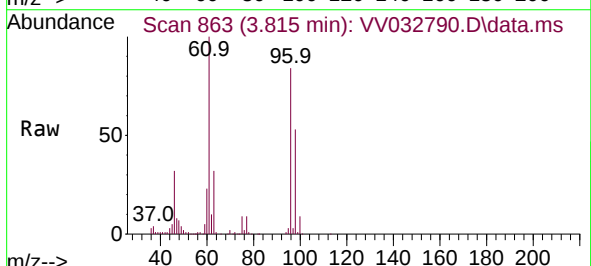
Instrument :  
MSVOA\_V  
ClientSampleId :

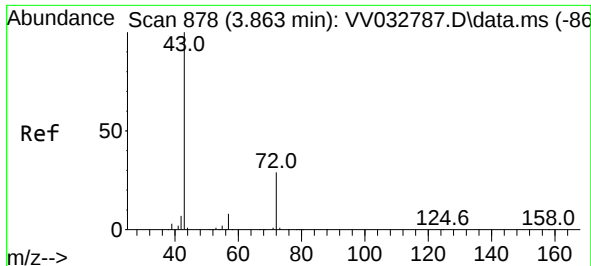
Tgt Ion: 63 Resp: 216652  
Ion Ratio Lower Upper  
63 100  
65 32.5 22.3 41.5  
83 15.1 10.1 18.7



#20  
cis-1,2-Dichloroethene  
Concen: 48.662 ug/L  
RT: 3.815 min Scan# 863  
Delta R.T. 0.000 min  
Lab File: VV032790.D  
Acq: 31 Oct 2023 11:17

Tgt Ion: 96 Resp: 130315  
Ion Ratio Lower Upper  
96 100  
61 119.5 83.3 154.7  
98 63.6 44.2 82.2

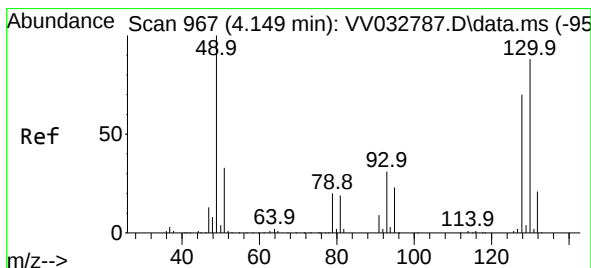
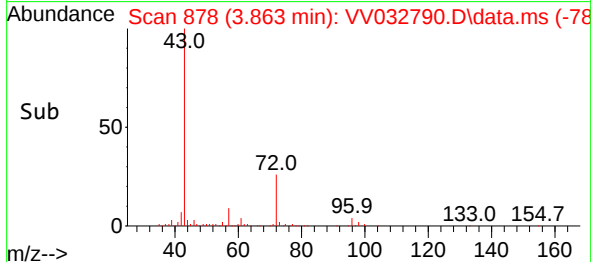
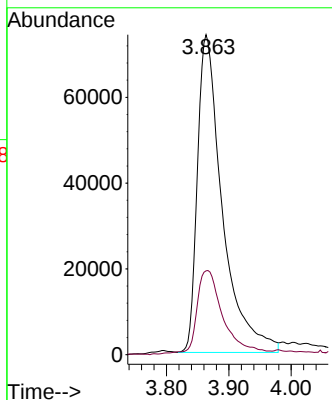
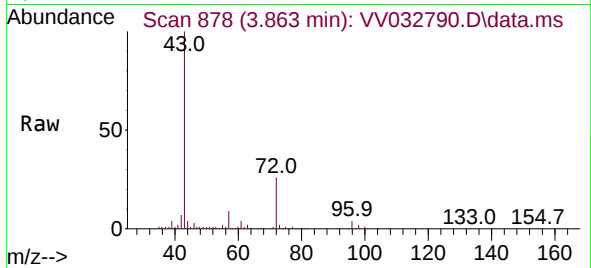




#22  
2-Butanone  
Concen: 103.641 ug/L  
RT: 3.863 min Scan# 81  
Delta R.T. 0.000 min  
Lab File: VV032790.D  
Acq: 31 Oct 2023 11:17

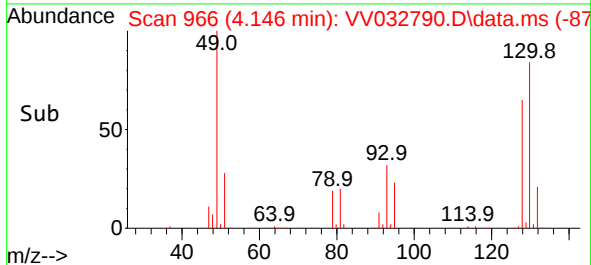
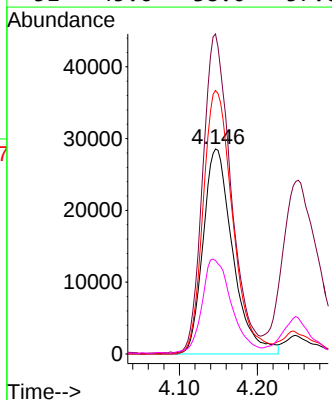
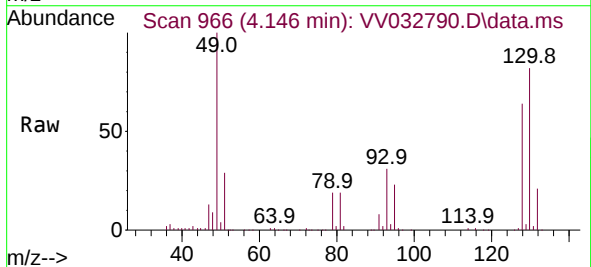
Instrument :  
MSVOA\_V  
ClientSampleId :

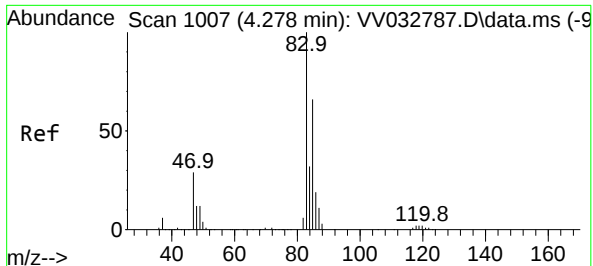
Tgt Ion: 43 Resp: 206164  
Ion Ratio Lower Upper  
43 100  
72 26.5 13.5 40.4



#23  
Bromochloromethane  
Concen: 50.439 ug/L  
RT: 4.146 min Scan# 966  
Delta R.T. -0.003 min  
Lab File: VV032790.D  
Acq: 31 Oct 2023 11:17

Tgt Ion: 128 Resp: 75391  
Ion Ratio Lower Upper  
128 100  
49 156.2 101.0 187.6  
130 128.6 88.5 164.4  
51 45.6 38.0 57.0





#25

Chloroform

Concen: 46.699 ug/L

RT: 4.275 min Scan# 1006

Delta R.T. -0.003 min

Lab File: VV032790.D

Acq: 31 Oct 2023 11:17

Instrument :

MSVOA\_V

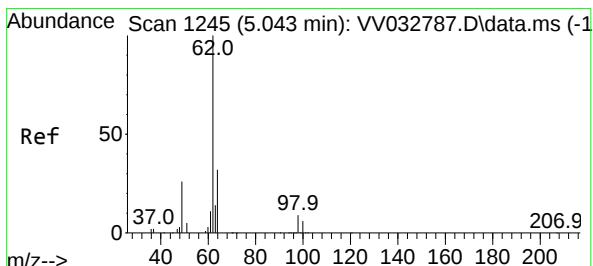
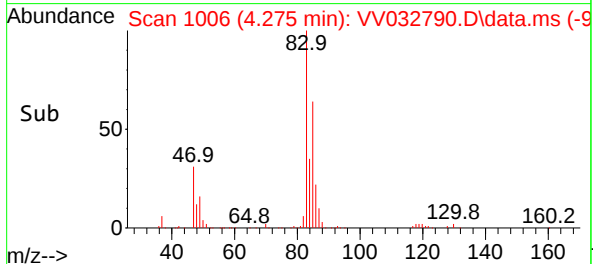
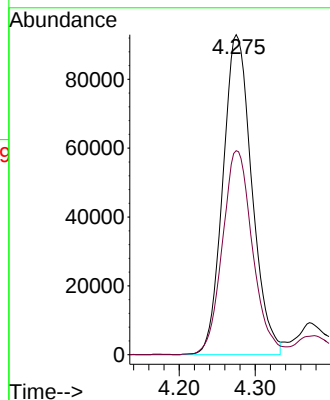
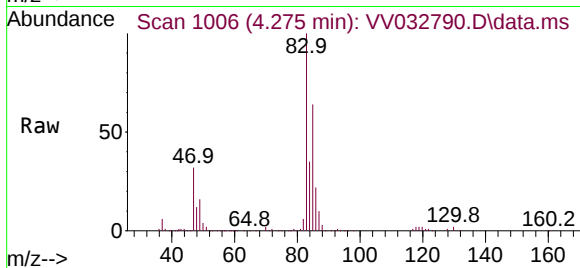
ClientSampleId :

Tgt Ion: 83 Resp: 245954

Ion Ratio Lower Upper

83 100

85 63.8 46.2 85.8



#27

1,2-Dichloroethane

Concen: 51.346 ug/L

RT: 5.040 min Scan# 1244

Delta R.T. -0.003 min

Lab File: VV032790.D

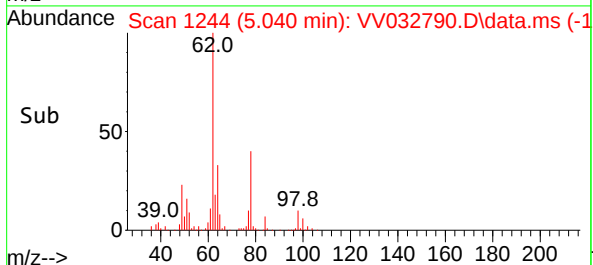
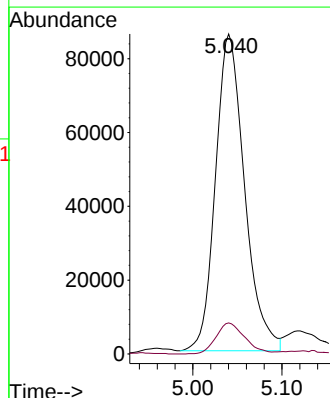
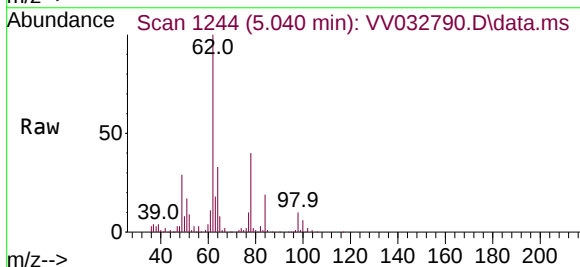
Acq: 31 Oct 2023 11:17

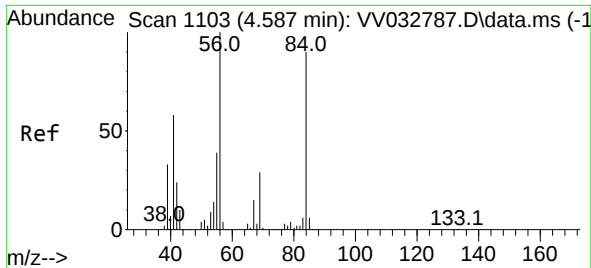
Tgt Ion: 62 Resp: 194890

Ion Ratio Lower Upper

62 100

98 9.7 7.5 11.3

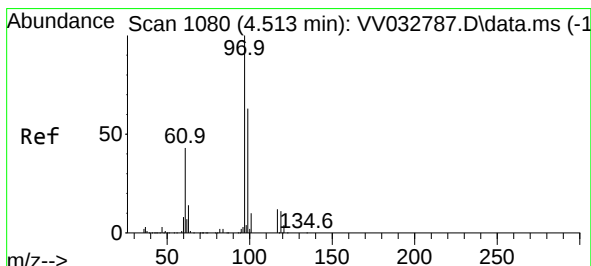
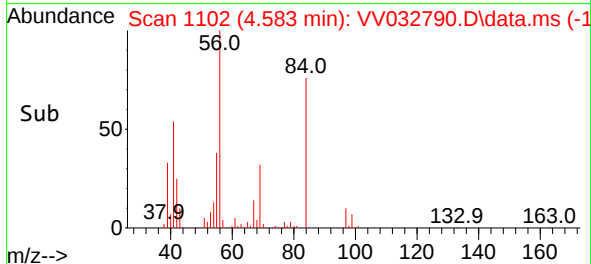
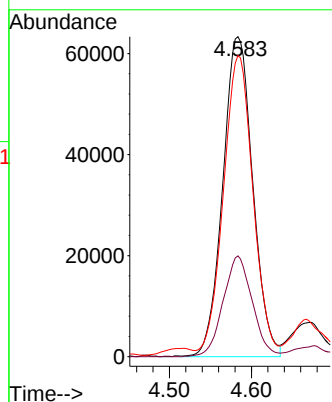
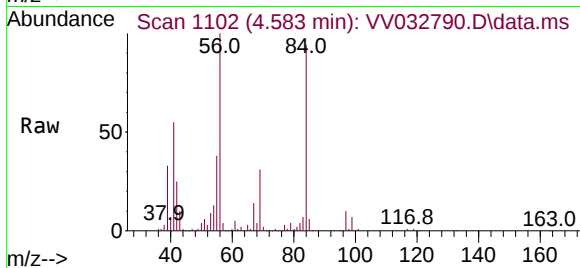




#29  
Cyclohexane  
Concen: 48.636 ug/L  
RT: 4.583 min Scan# 1103  
Delta R.T. -0.003 min  
Lab File: VV032790.D  
Acq: 31 Oct 2023 11:17

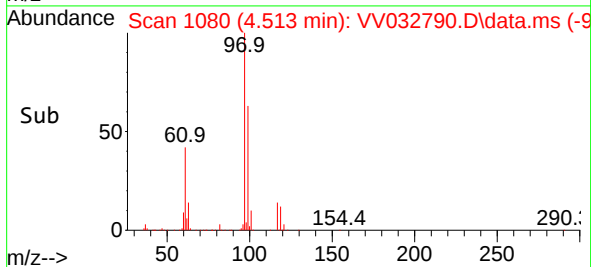
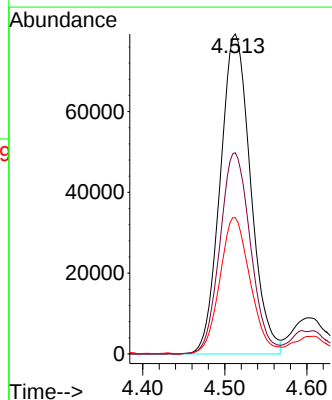
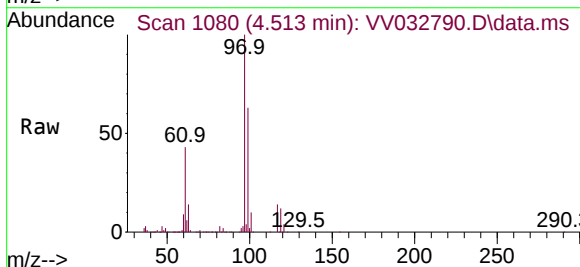
Instrument :  
MSVOA\_V  
ClientSampleId :

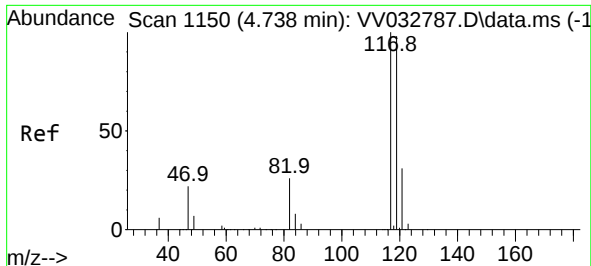
Tgt Ion: 56 Resp: 161027  
Ion Ratio Lower Upper  
56 100  
69 30.5 13.4 20.0#  
84 90.8 75.3 112.9



#30  
1,1,1-Trichloroethane  
Concen: 46.207 ug/L  
RT: 4.513 min Scan# 1080  
Delta R.T. 0.000 min  
Lab File: VV032790.D  
Acq: 31 Oct 2023 11:17

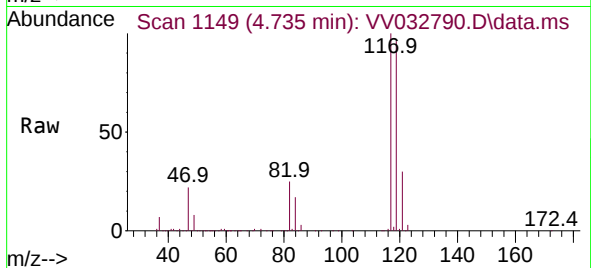
Tgt Ion: 97 Resp: 203940  
Ion Ratio Lower Upper  
97 100  
99 63.5 51.8 77.6  
61 42.9 34.8 52.2



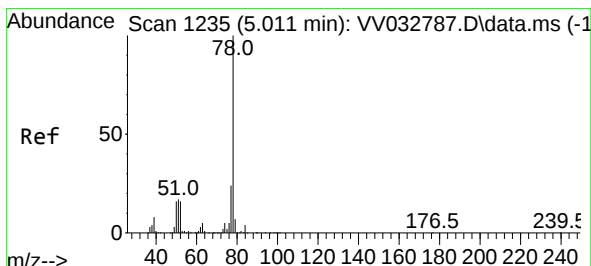
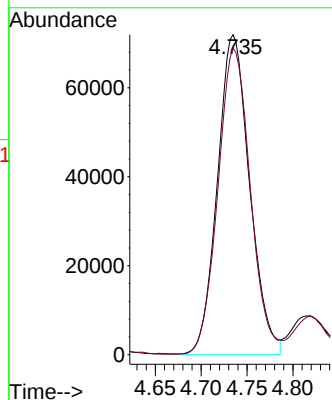
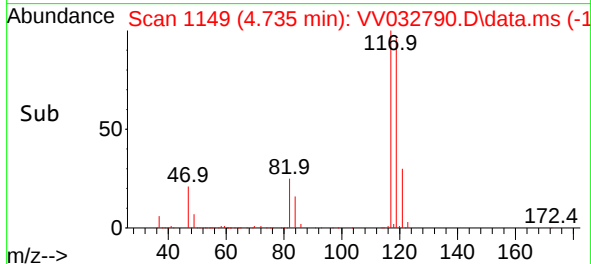


#31  
Carbon tetrachloride  
Concen: 45.045 ug/L  
RT: 4.735 min Scan# 1150  
Delta R.T. -0.003 min  
Lab File: VV032790.D  
Acq: 31 Oct 2023 11:17

Instrument :  
MSVOA\_V  
ClientSampleId :

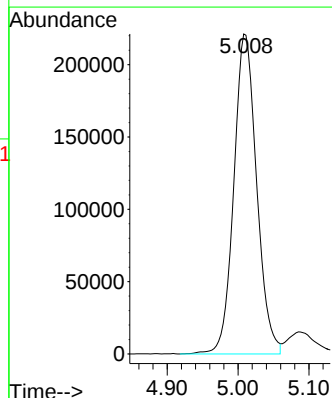
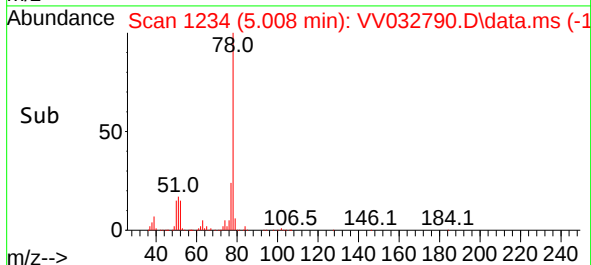
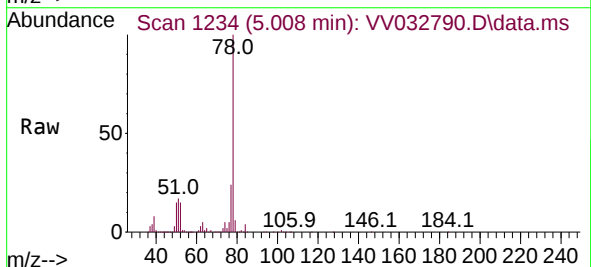


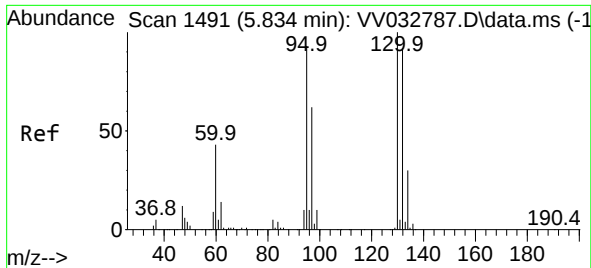
Tgt Ion:117 Resp: 175680  
Ion Ratio Lower Upper  
117 100  
119 96.3 76.6 115.0



#33  
Benzene  
Concen: 50.807 ug/L  
RT: 5.008 min Scan# 1234  
Delta R.T. -0.003 min  
Lab File: VV032790.D  
Acq: 31 Oct 2023 11:17

Tgt Ion: 78 Resp: 496303





#34

Trichloroethene

Concen: 47.164 ug/L

RT: 5.834 min Scan# 1491

Delta R.T. 0.000 min

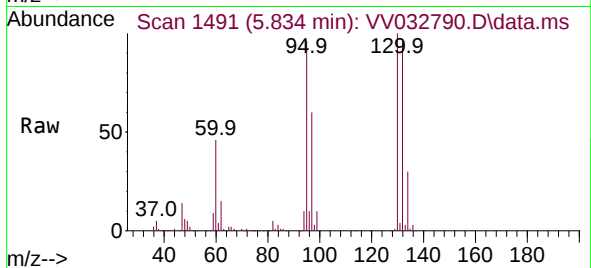
Lab File: VV032790.D

Acq: 31 Oct 2023 11:17

Instrument :

MSVOA\_V

ClientSampleId :



Tgt Ion: 95 Resp: 128250

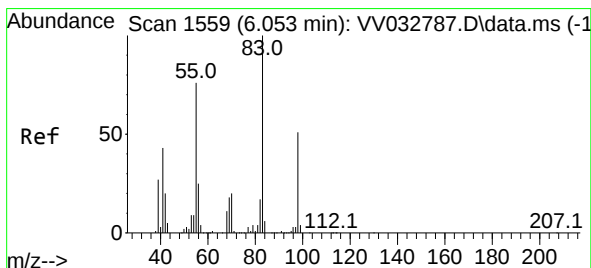
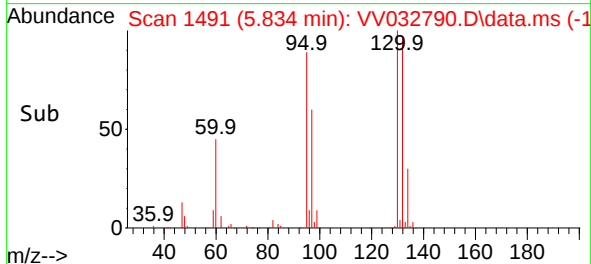
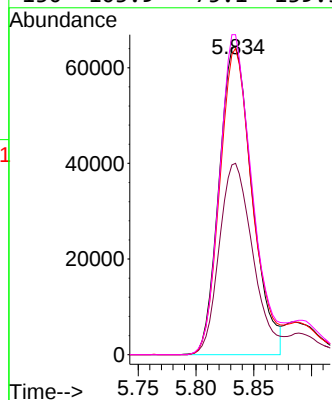
Ion Ratio Lower Upper

95 100

97 62.1 46.3 85.9

132 99.5 69.0 128.2

130 103.9 75.1 139.5



#35

Methylcyclohexane

Concen: 48.933 ug/L

RT: 6.050 min Scan# 1558

Delta R.T. -0.003 min

Lab File: VV032790.D

Acq: 31 Oct 2023 11:17

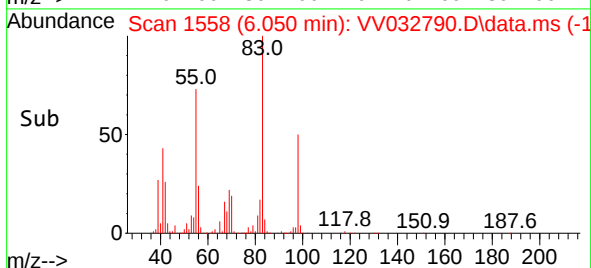
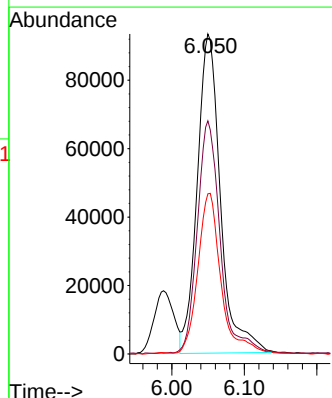
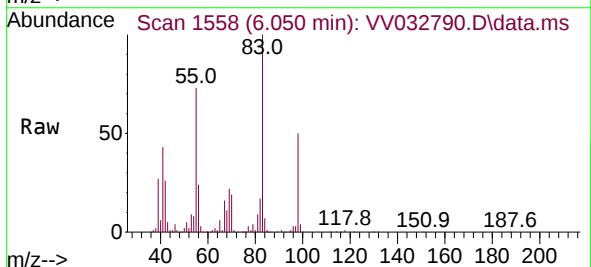
Tgt Ion: 83 Resp: 208204

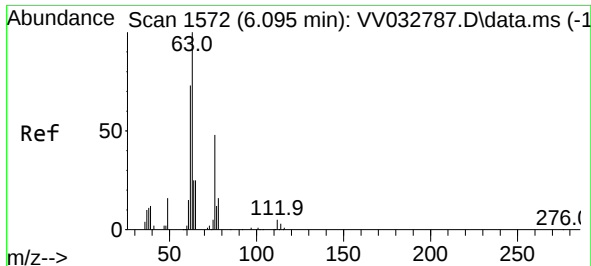
Ion Ratio Lower Upper

83 100

55 71.4 57.8 86.8

98 46.9 39.4 59.2





#37

1,2-Dichloropropane

Concen: 47.179 ug/L

RT: 6.091 min Scan# 1

Delta R.T. -0.003 min

Lab File: VV032790.D

Acq: 31 Oct 2023 11:17

Instrument :

MSVOA\_V

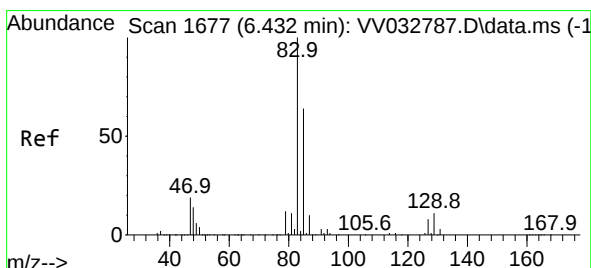
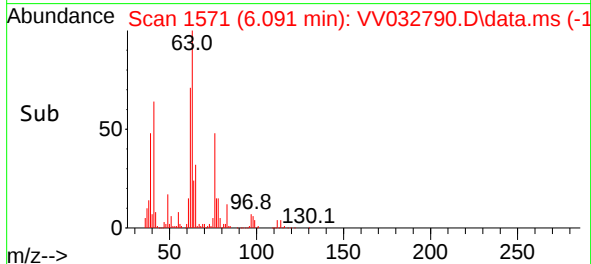
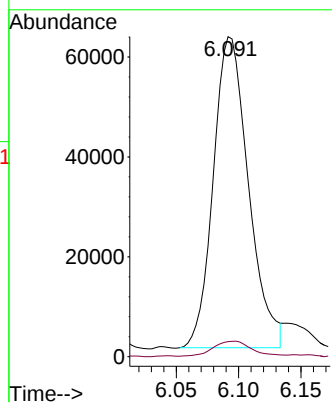
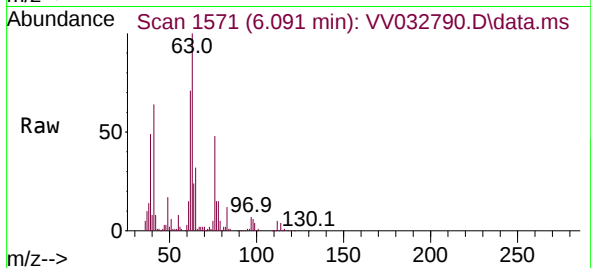
ClientSampleId :

Tgt Ion: 63 Resp: 122334

Ion Ratio Lower Upper

63 100

112 5.6 4.1 6.1



#38

Bromodichloromethane

Concen: 49.664 ug/L

RT: 6.432 min Scan# 1677

Delta R.T. 0.000 min

Lab File: VV032790.D

Acq: 31 Oct 2023 11:17

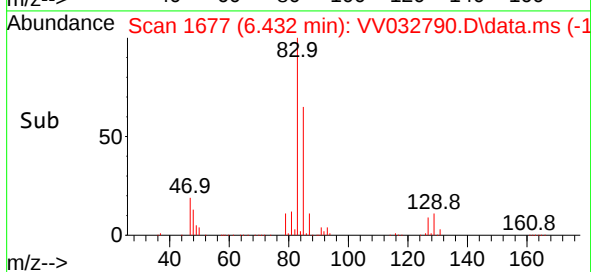
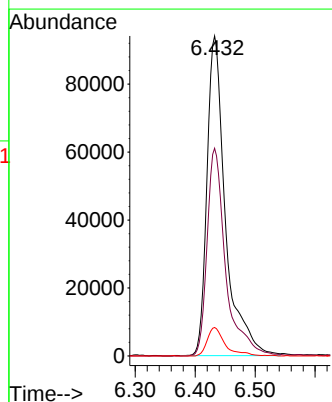
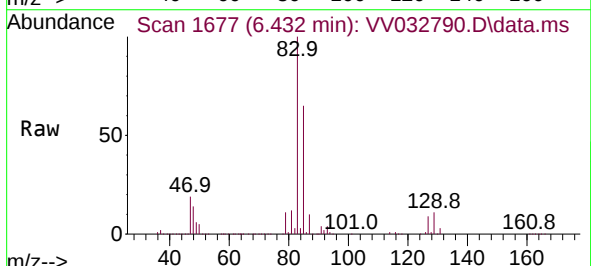
Tgt Ion: 83 Resp: 202029

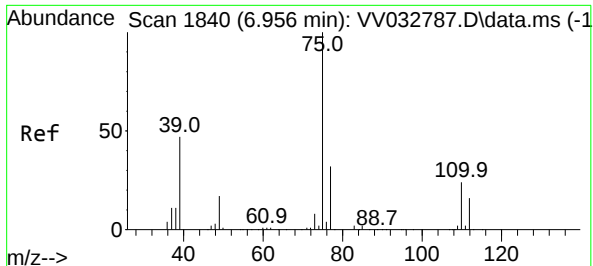
Ion Ratio Lower Upper

83 100

85 64.9 45.1 83.9

127 8.9 6.6 9.8





#39

cis-1,3-Dichloropropene

Concen: 58.005 ug/L

RT: 6.953 min Scan# 1839

Delta R.T. -0.003 min

Lab File: VV032790.D

Acq: 31 Oct 2023 11:17

Instrument :

MSVOA\_V

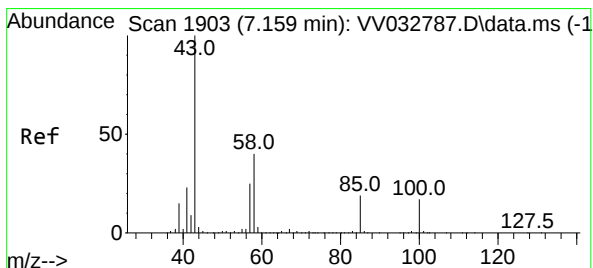
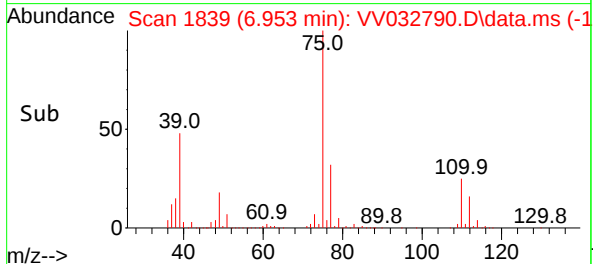
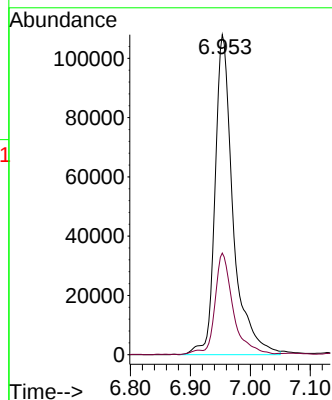
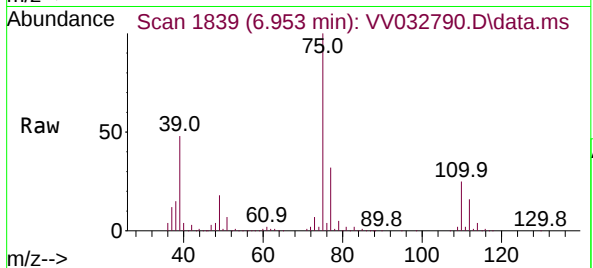
ClientSampleId :

Tgt Ion: 75 Resp: 225639

Ion Ratio Lower Upper

75 100

77 31.7 23.0 42.8



#40

4-Methyl-2-pentanone

Concen: 118.270 ug/L

RT: 7.156 min Scan# 1902

Delta R.T. -0.003 min

Lab File: VV032790.D

Acq: 31 Oct 2023 11:17

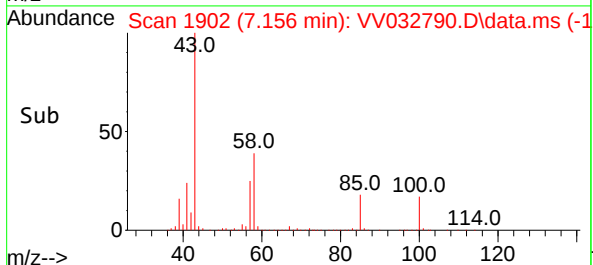
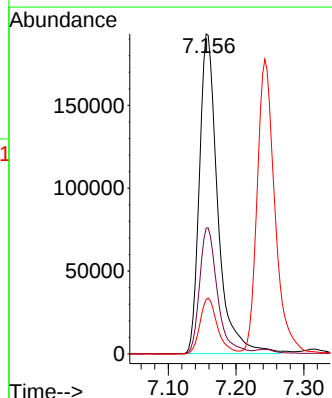
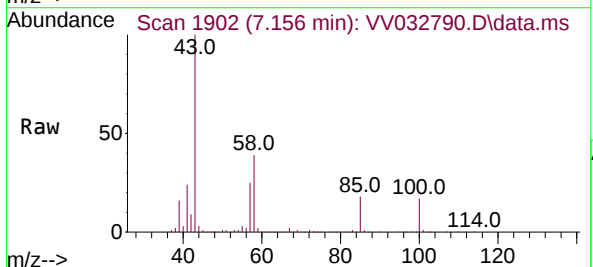
Tgt Ion: 43 Resp: 363441

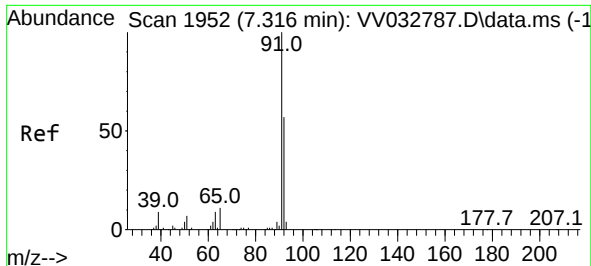
Ion Ratio Lower Upper

43 100

58 38.3 31.4 47.0

100 16.6 13.3 19.9

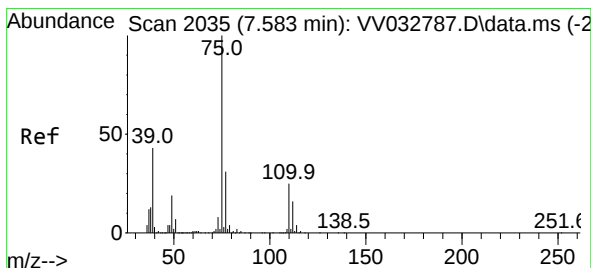
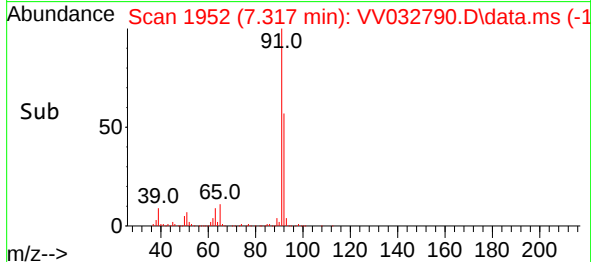
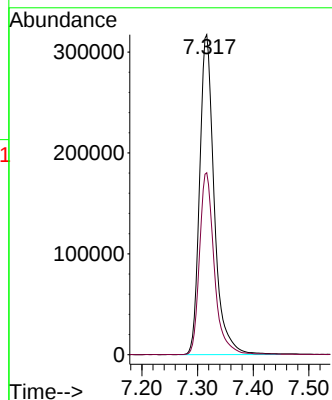
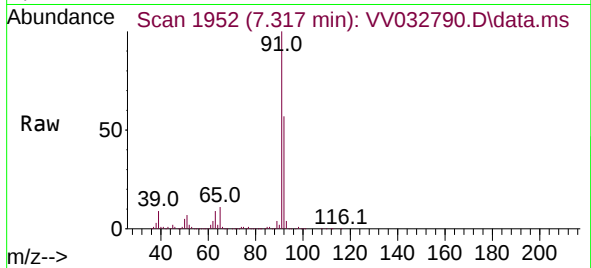




#42  
Toluene  
Concen: 51.989 ug/L  
RT: 7.317 min Scan# 1952  
Delta R.T. 0.000 min  
Lab File: VV032790.D  
Acq: 31 Oct 2023 11:17

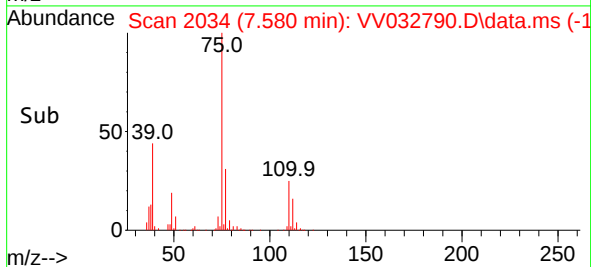
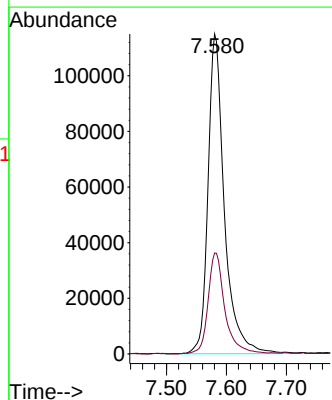
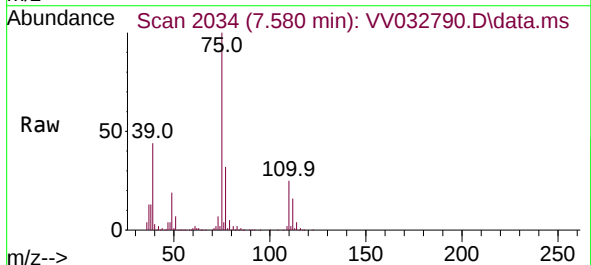
Instrument :  
MSVOA\_V  
ClientSampleId :

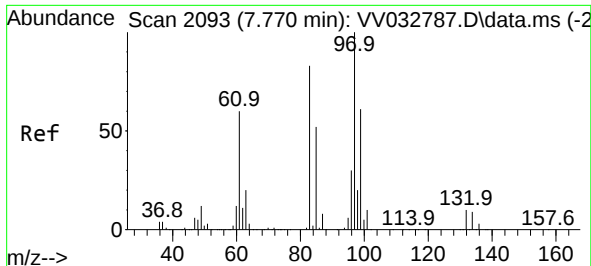
Tgt Ion: 91 Resp: 578344  
Ion Ratio Lower Upper  
91 100  
92 56.8 40.0 74.2



#44  
trans-1,3-Dichloropropene  
Concen: 54.509 ug/L  
RT: 7.580 min Scan# 2034  
Delta R.T. -0.003 min  
Lab File: VV032790.D  
Acq: 31 Oct 2023 11:17

Tgt Ion: 75 Resp: 217795  
Ion Ratio Lower Upper  
75 100  
77 31.6 22.0 40.8





#45

1,1,2-Trichloroethane

Concen: 50.997 ug/L

RT: 7.770 min Scan# 2093

Delta R.T. 0.000 min

Lab File: VV032790.D

Acq: 31 Oct 2023 11:17

Instrument :

MSVOA\_V

ClientSampleId :

Tgt Ion: 97 Resp: 151674

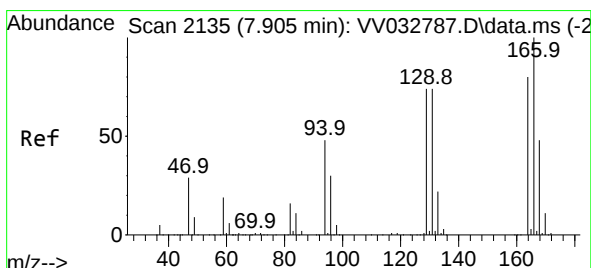
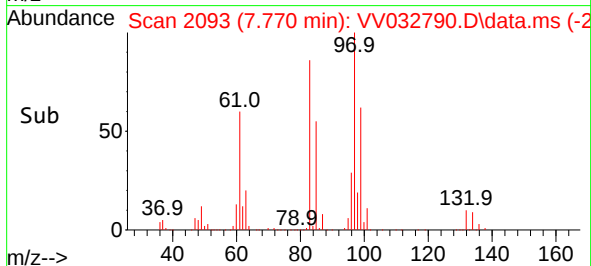
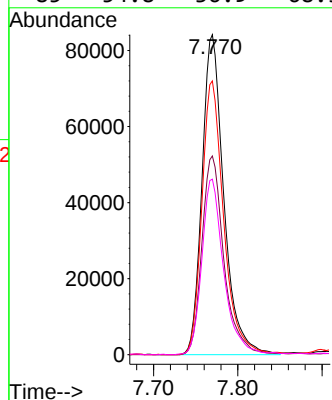
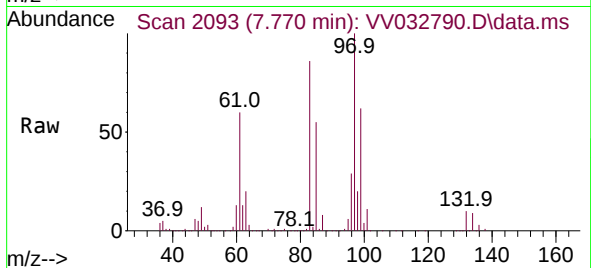
Ion Ratio Lower Upper

97 100

99 62.1 42.8 79.6

83 85.5 58.4 108.4

85 54.8 36.9 68.5



#46

Tetrachloroethene

Concen: 46.157 ug/L

RT: 7.905 min Scan# 2135

Delta R.T. 0.000 min

Lab File: VV032790.D

Acq: 31 Oct 2023 11:17

Tgt Ion:164 Resp: 113248

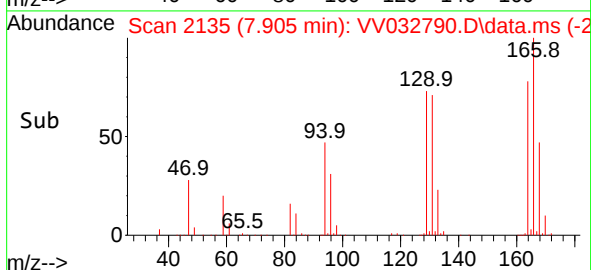
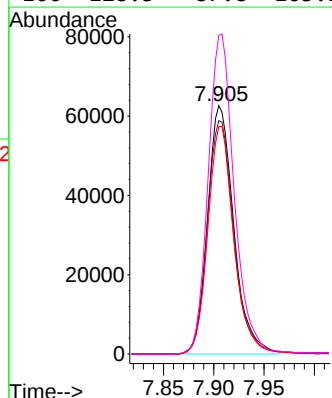
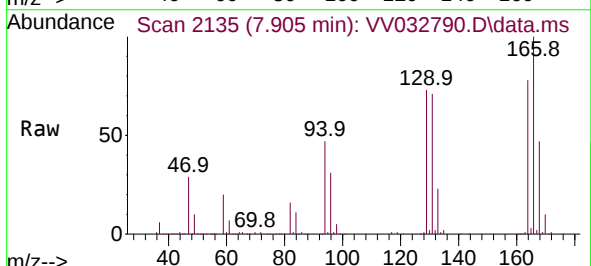
Ion Ratio Lower Upper

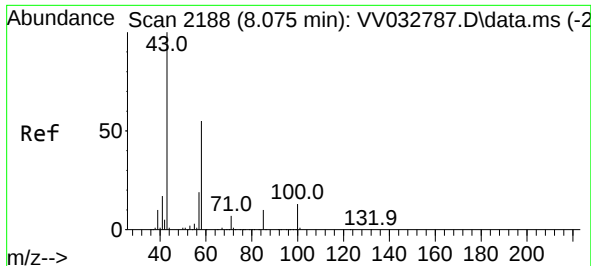
164 100

129 94.0 65.3 121.3

131 91.6 65.0 120.8

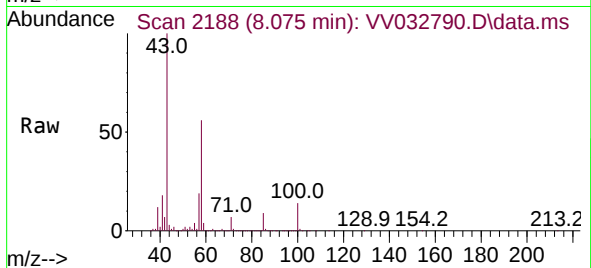
166 128.3 87.8 163.2



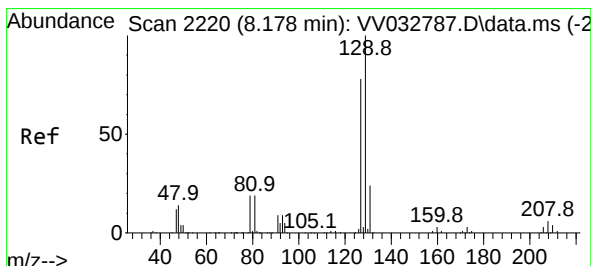
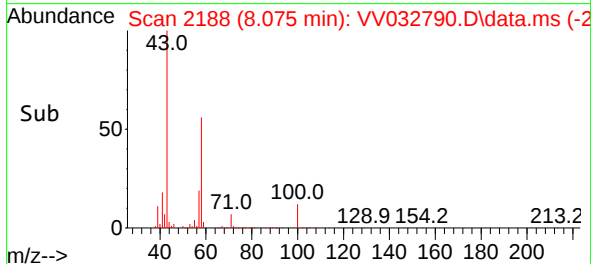
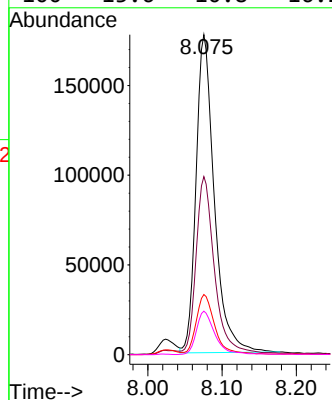


#48  
2-Hexanone  
Concen: 110.261 ug/L  
RT: 8.075 min Scan# 2188  
Delta R.T. 0.000 min  
Lab File: VV032790.D  
Acq: 31 Oct 2023 11:17

Instrument :  
MSVOA\_V  
ClientSampleId :

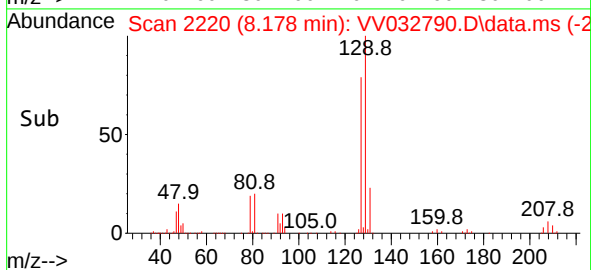
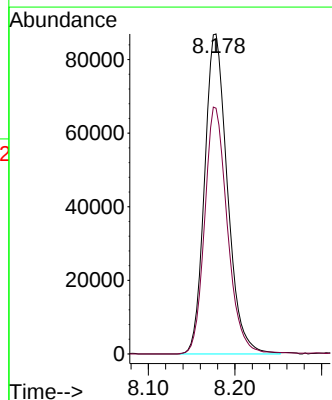
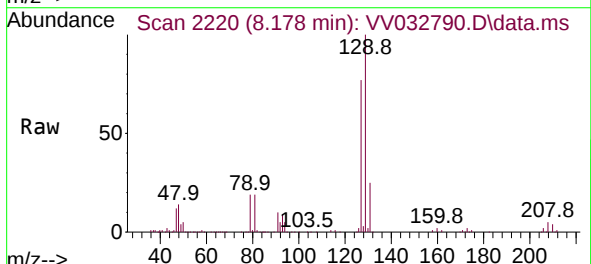


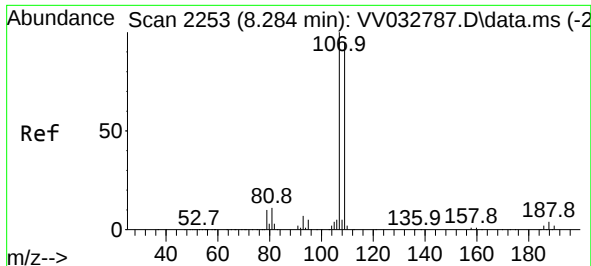
Tgt Ion: 43 Resp: 304006  
Ion Ratio Lower Upper  
43 100  
58 54.8 43.3 64.9  
57 18.6 15.5 23.3  
100 13.6 10.8 16.2



#49  
Dibromochloromethane  
Concen: 51.170 ug/L  
RT: 8.178 min Scan# 2220  
Delta R.T. 0.000 min  
Lab File: VV032790.D  
Acq: 31 Oct 2023 11:17

Tgt Ion: 129 Resp: 159111  
Ion Ratio Lower Upper  
129 100  
127 76.8 54.7 101.5





#50

1,2-Dibromoethane

Concen: 53.074 ug/L

RT: 8.281 min Scan# 21

Delta R.T. -0.003 min

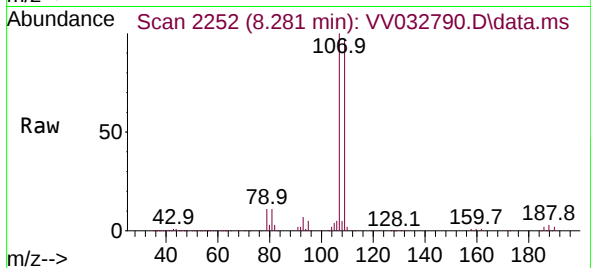
Lab File: VV032790.D

Acq: 31 Oct 2023 11:17

Instrument :

MSVOA\_V

ClientSampleId :



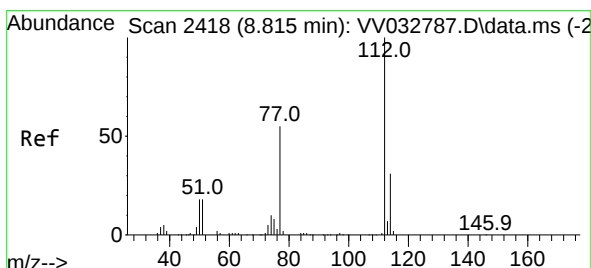
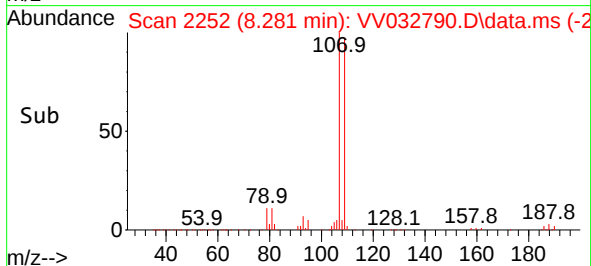
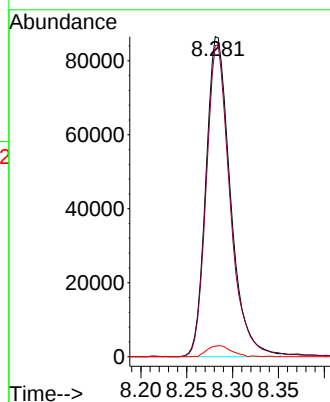
Tgt Ion:107 Resp: 160816

Ion Ratio Lower Upper

107 100

109 97.3 66.4 123.2

188 3.3 3.0 4.6



#51

Chlorobenzene

Concen: 48.919 ug/L

RT: 8.815 min Scan# 2418

Delta R.T. 0.000 min

Lab File: VV032790.D

Acq: 31 Oct 2023 11:17

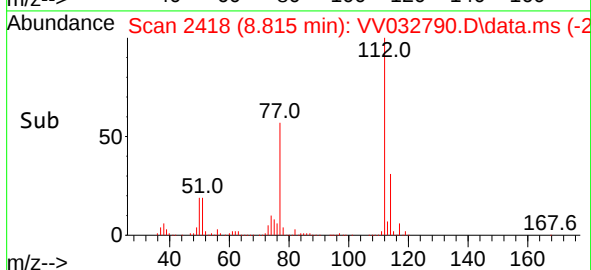
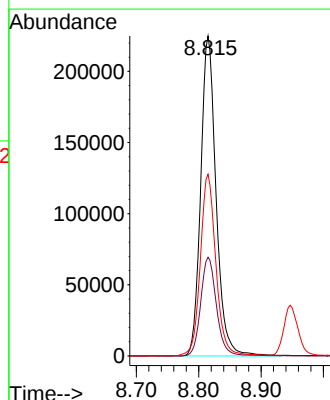
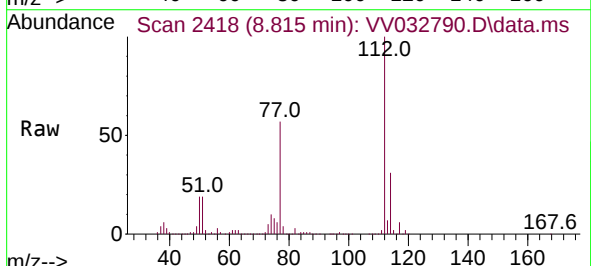
Tgt Ion:112 Resp: 385263

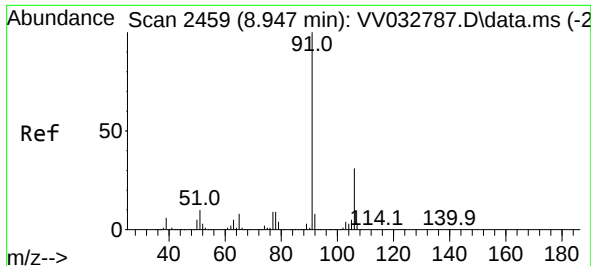
Ion Ratio Lower Upper

112 100

114 30.9 21.6 40.2

77 56.8 44.4 66.6

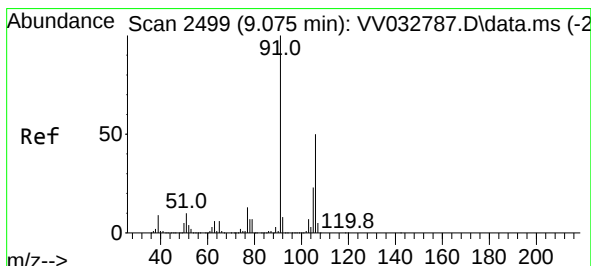
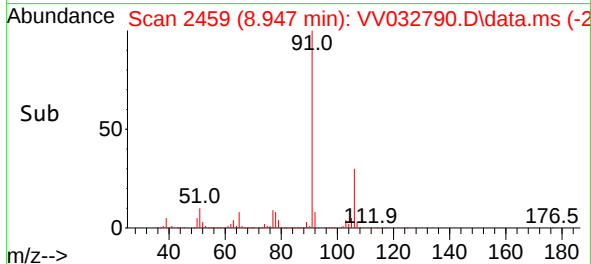
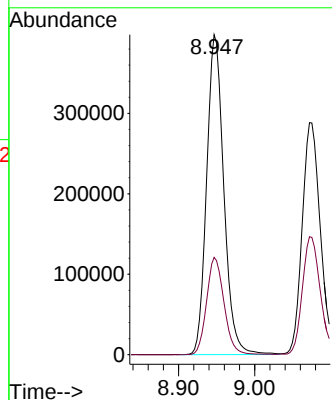
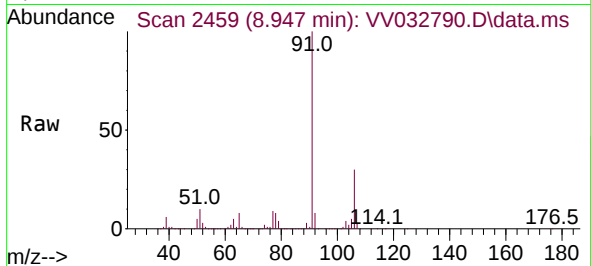




#52  
Ethylbenzene  
Concen: 50.894 ug/L  
RT: 8.947 min Scan# 2459  
Delta R.T. 0.000 min  
Lab File: VV032790.D  
Acq: 31 Oct 2023 11:17

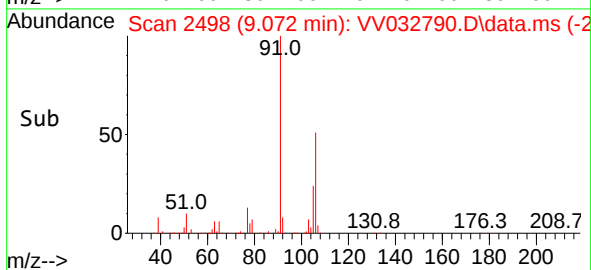
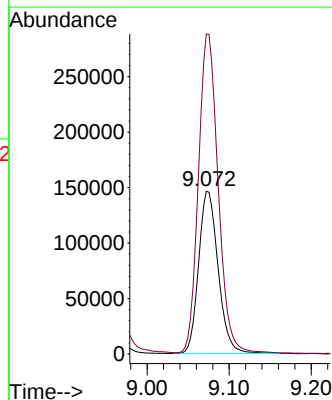
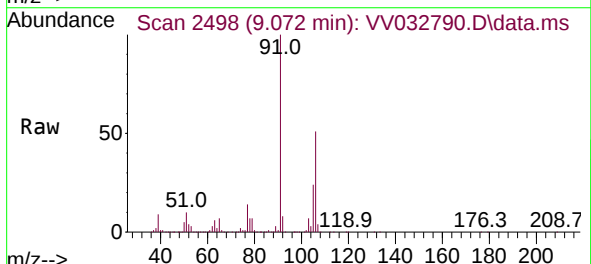
Instrument :  
MSVOA\_V  
ClientSampleId :

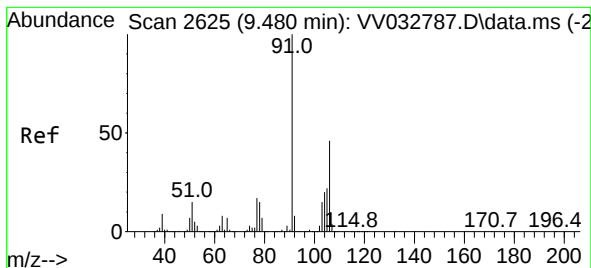
Tgt Ion: 91 Resp: 624540  
Ion Ratio Lower Upper  
91 100  
106 30.4 21.7 40.3



#53  
m,p-Xylene  
Concen: 51.729 ug/L  
RT: 9.072 min Scan# 2498  
Delta R.T. -0.003 min  
Lab File: VV032790.D  
Acq: 31 Oct 2023 11:17

Tgt Ion:106 Resp: 241592  
Ion Ratio Lower Upper  
106 100  
91 196.7 139.7 259.5





#54

o-Xylene

Concen: 51.427 ug/L

RT: 9.480 min Scan# 2

Delta R.T. 0.000 min

Lab File: VV032790.D

Acq: 31 Oct 2023 11:17

Instrument :

MSVOA\_V

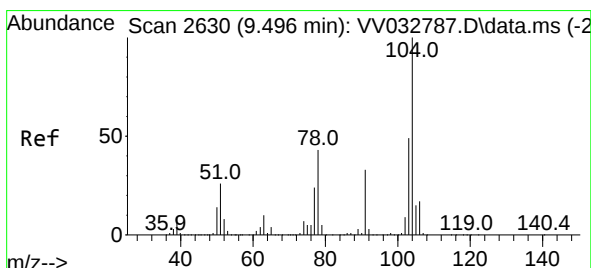
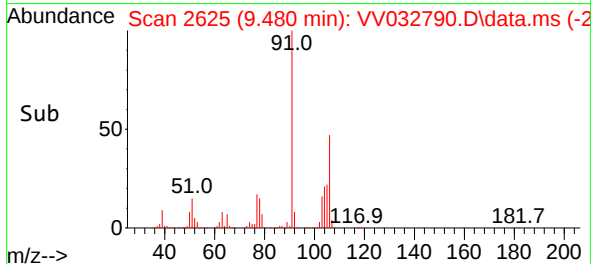
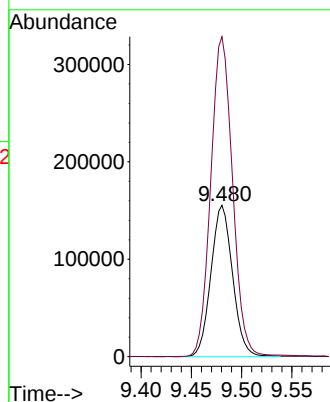
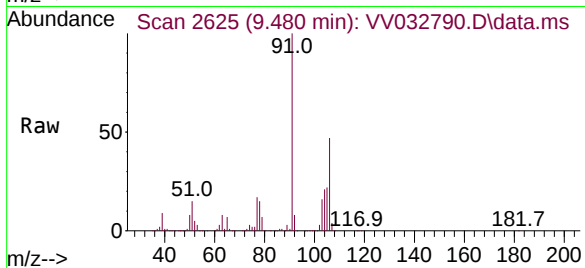
ClientSampleId :

Tgt Ion:106 Resp: 232681

Ion Ratio Lower Upper

106 100

91 211.4 151.0 280.4



#55

Styrene

Concen: 53.856 ug/L

RT: 9.496 min Scan# 2630

Delta R.T. 0.000 min

Lab File: VV032790.D

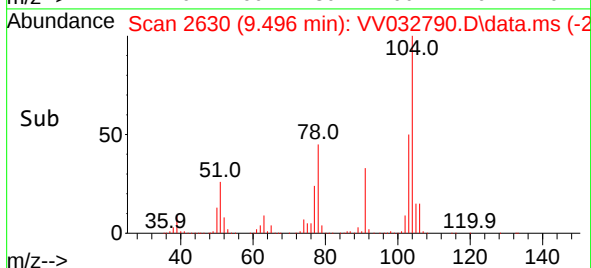
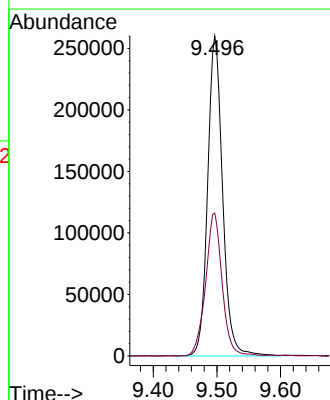
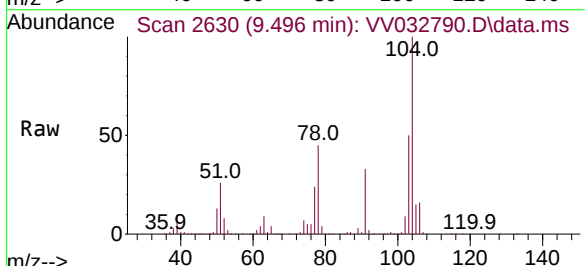
Acq: 31 Oct 2023 11:17

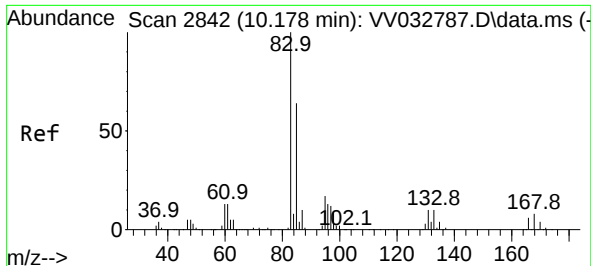
Tgt Ion:104 Resp: 424652

Ion Ratio Lower Upper

104 100

78 44.6 30.1 55.9





#57

1,1,2,2-Tetrachloroethane

Concen: 51.846 ug/L

RT: 10.178 min Scan# 2842

Delta R.T. 0.000 min

Lab File: VV032790.D

Acq: 31 Oct 2023 11:17

Instrument :

MSVOA\_V

ClientSampleId :

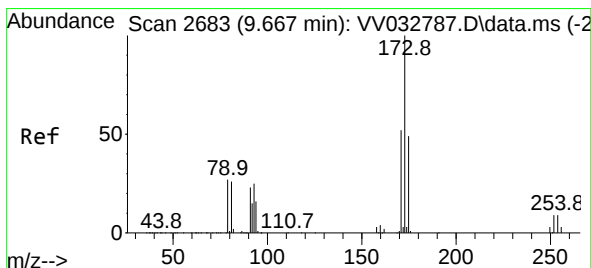
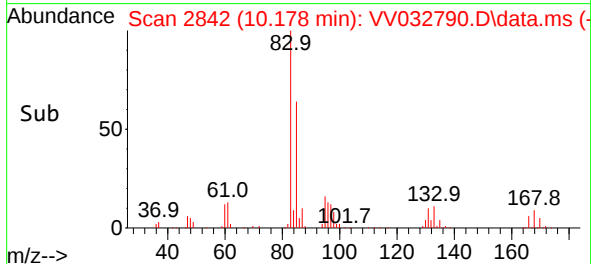
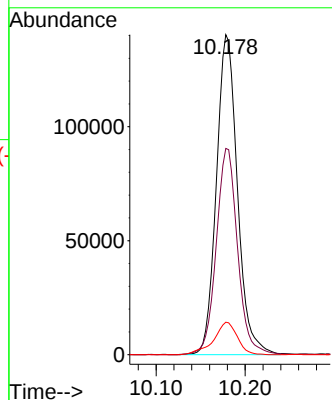
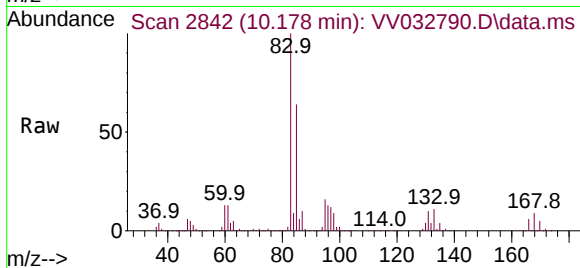
Tgt Ion: 83 Resp: 230945

Ion Ratio Lower Upper

83 100

85 64.4 44.9 83.3

131 10.1 7.8 11.6



#59

Bromoform

Concen: 50.871 ug/L

RT: 9.667 min Scan# 2683

Delta R.T. 0.000 min

Lab File: VV032790.D

Acq: 31 Oct 2023 11:17

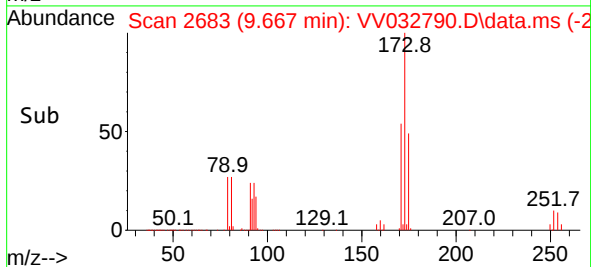
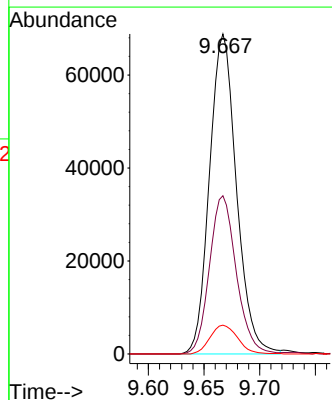
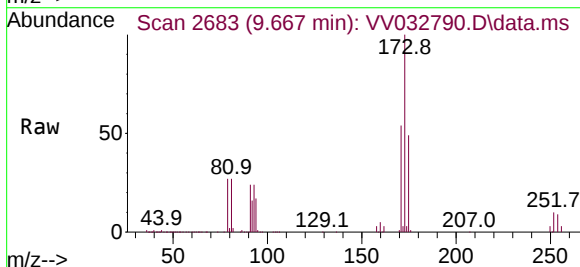
Tgt Ion: 173 Resp: 115952

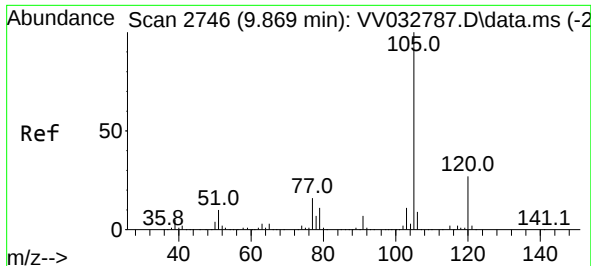
Ion Ratio Lower Upper

173 100

175 49.1 38.4 57.6

254 9.2 7.0 10.6

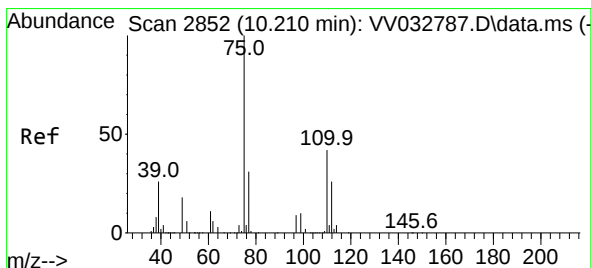
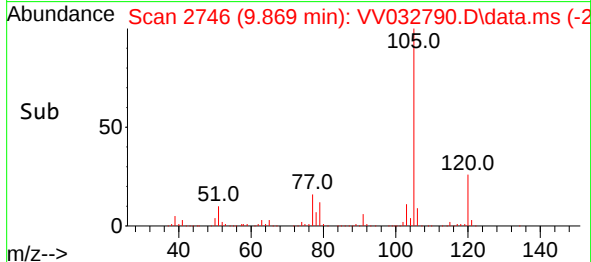
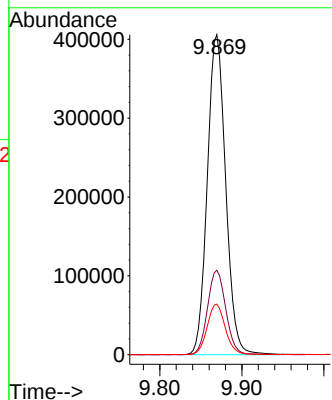
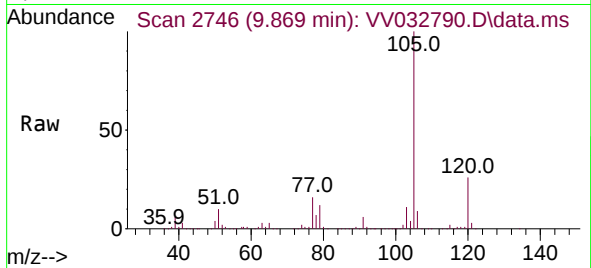




#60  
Isopropylbenzene  
Concen: 51.220 ug/L  
RT: 9.869 min Scan# 2746  
Delta R.T. 0.000 min  
Lab File: VV032790.D  
Acq: 31 Oct 2023 11:17

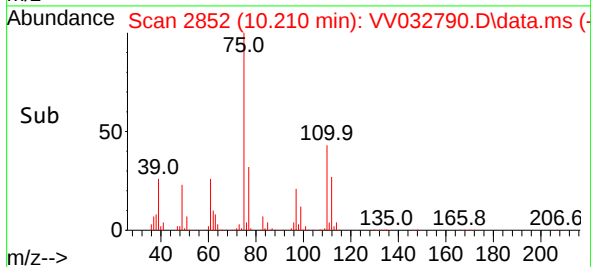
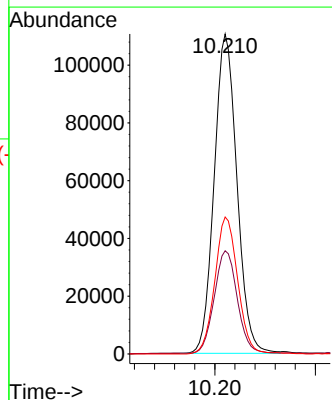
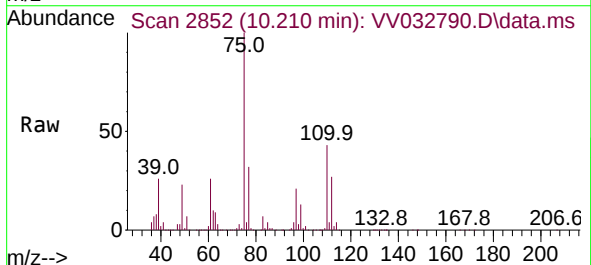
Instrument :  
MSVOA\_V  
ClientSampleId :

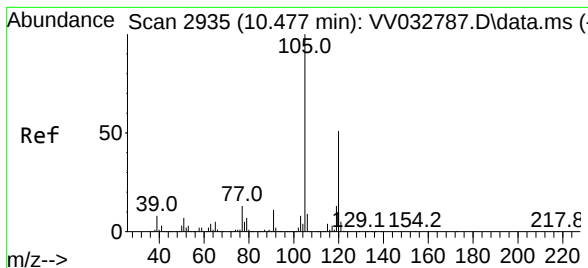
Tgt Ion:105 Resp: 631476  
Ion Ratio Lower Upper  
105 100  
120 26.3 21.1 31.7  
77 15.5 12.6 19.0



#61  
1,2,3-Trichloropropane  
Concen: 51.163 ug/L  
RT: 10.210 min Scan# 2852  
Delta R.T. 0.000 min  
Lab File: VV032790.D  
Acq: 31 Oct 2023 11:17

Tgt Ion: 75 Resp: 173734  
Ion Ratio Lower Upper  
75 100  
77 32.3 25.4 38.0  
110 43.0 34.3 51.5





#62

1,3,5-Trimethylbenzene

Concen: 53.079 ug/L

RT: 10.477 min Scan# 2935

Delta R.T. 0.000 min

Lab File: VV032790.D

Acq: 31 Oct 2023 11:17

Instrument :

MSVOA\_V

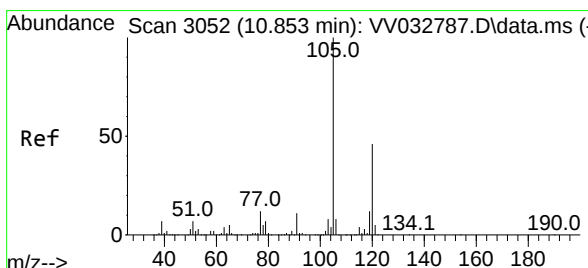
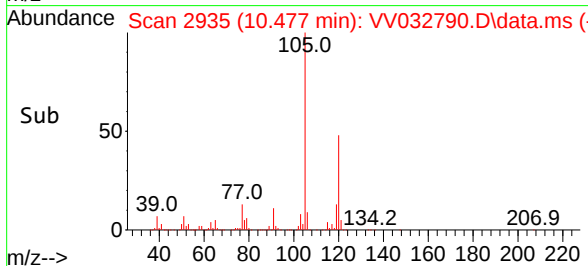
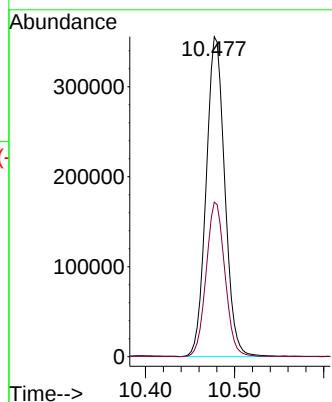
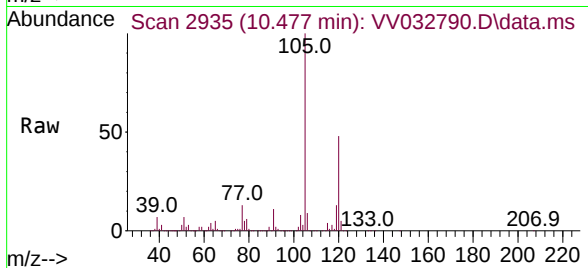
ClientSampleId :

Tgt Ion:105 Resp: 514957

Ion Ratio Lower Upper

105 100

120 48.7 39.9 59.9



#63

1,2,4-Trimethylbenzene

Concen: 54.252 ug/L

RT: 10.853 min Scan# 3052

Delta R.T. 0.000 min

Lab File: VV032790.D

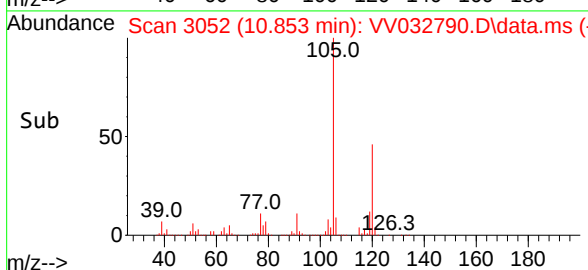
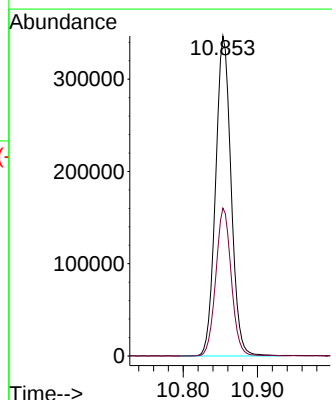
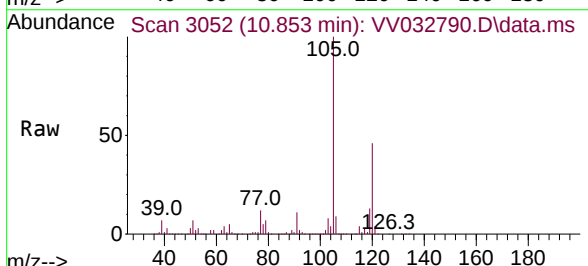
Acq: 31 Oct 2023 11:17

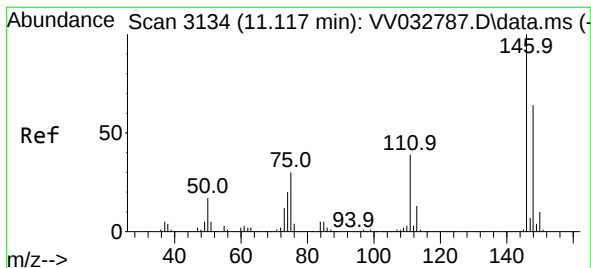
Tgt Ion:105 Resp: 503483

Ion Ratio Lower Upper

105 100

120 46.1 37.0 55.6





#64

1,3-Dichlorobenzene

Concen: 49.472 ug/L

RT: 11.117 min Scan# 3134

Delta R.T. 0.000 min

Lab File: VV032790.D

Acq: 31 Oct 2023 11:17

Instrument :

MSVOA\_V

ClientSampleId :

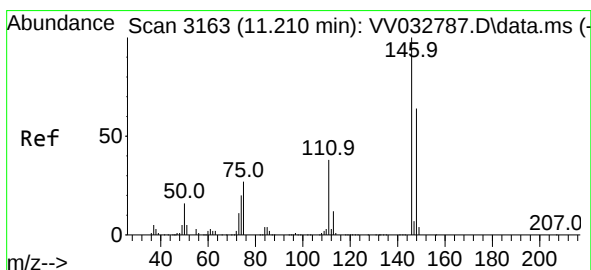
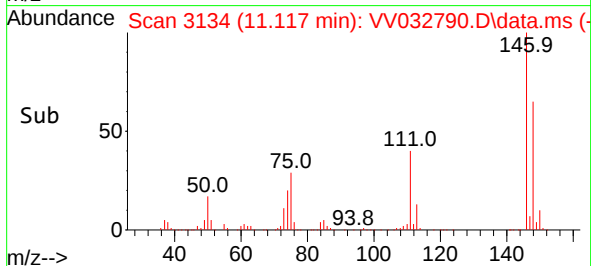
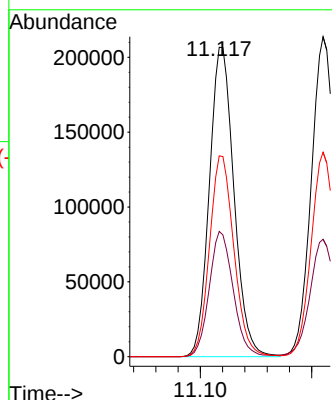
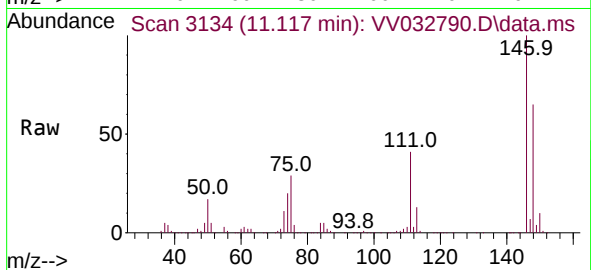
Tgt Ion:146 Resp: 317750

Ion Ratio Lower Upper

146 100

111 40.5 27.2 50.4

148 64.9 44.6 82.8



#65

1,4-Dichlorobenzene

Concen: 48.440 ug/L

RT: 11.210 min Scan# 3163

Delta R.T. 0.000 min

Lab File: VV032790.D

Acq: 31 Oct 2023 11:17

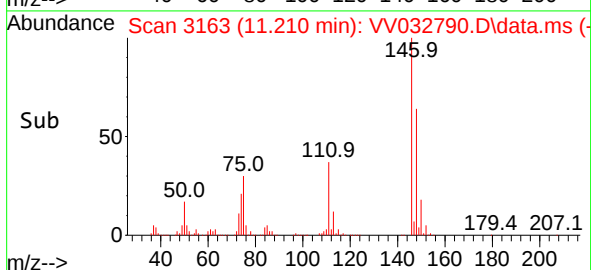
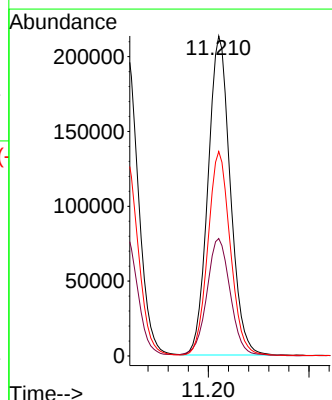
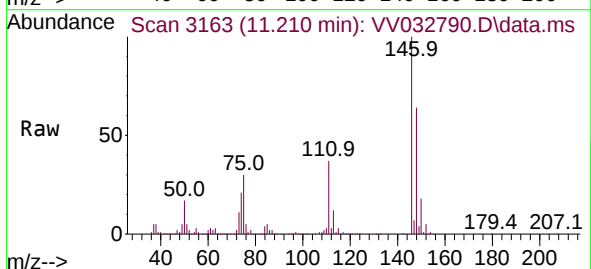
Tgt Ion:146 Resp: 328274

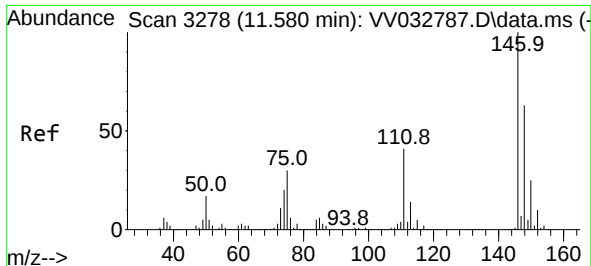
Ion Ratio Lower Upper

146 100

111 36.7 26.5 49.1

148 63.9 44.9 83.5





#67

1,2-Dichlorobenzene

Concen: 48.868 ug/L

RT: 11.580 min Scan# 31

Delta R.T. 0.000 min

Lab File: VV032790.D

Acq: 31 Oct 2023 11:17

Instrument :

MSVOA\_V

ClientSampleId :

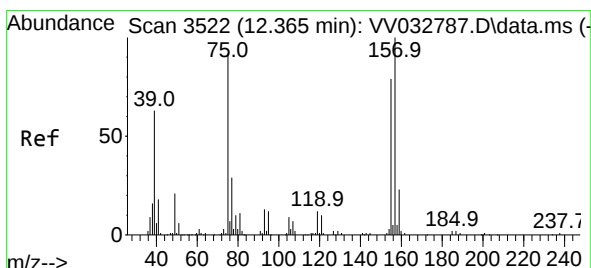
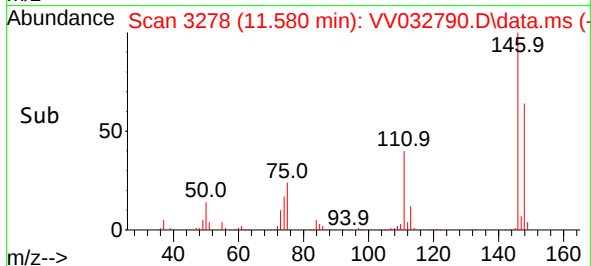
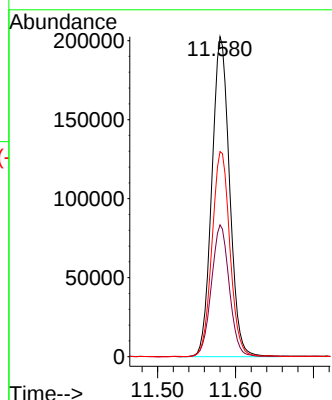
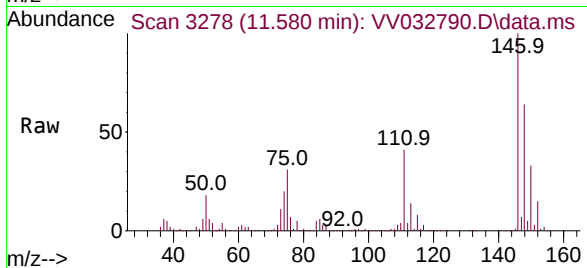
Tgt Ion:146 Resp: 320428

Ion Ratio Lower Upper

146 100

111 41.2 32.5 48.7

148 64.1 50.6 76.0



#68

1,2-Dibromo-3-chloropropane

Concen: 51.399 ug/L

RT: 12.365 min Scan# 3522

Delta R.T. 0.000 min

Lab File: VV032790.D

Acq: 31 Oct 2023 11:17

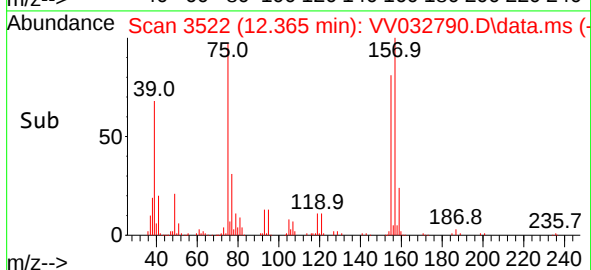
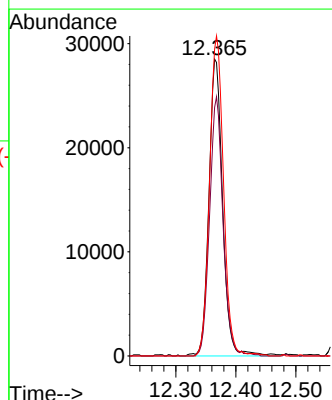
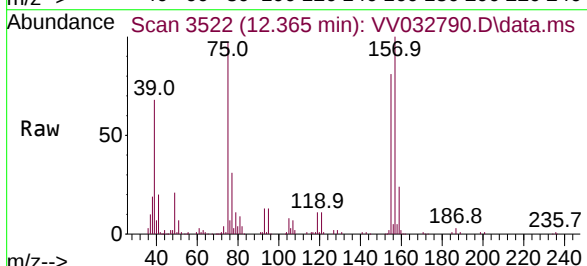
Tgt Ion: 75 Resp: 45424

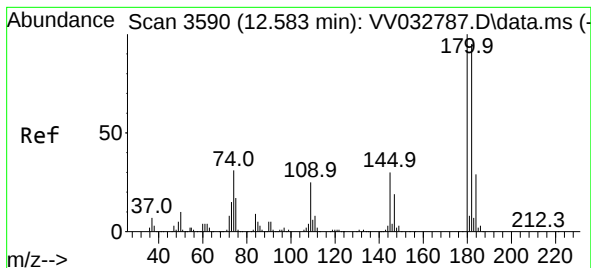
Ion Ratio Lower Upper

75 100

155 83.7 68.6 102.8

157 103.3 87.3 130.9





#69

1,3,5-Trichlorobenzene

Concen: 48.514 ug/L

RT: 12.583 min Scan# 3590

Delta R.T. 0.000 min

Lab File: VV032790.D

Acq: 31 Oct 2023 11:17

Instrument :

MSVOA\_V

ClientSampleId :

Tgt Ion:180 Resp: 224946

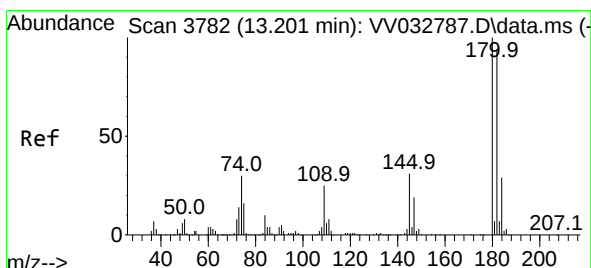
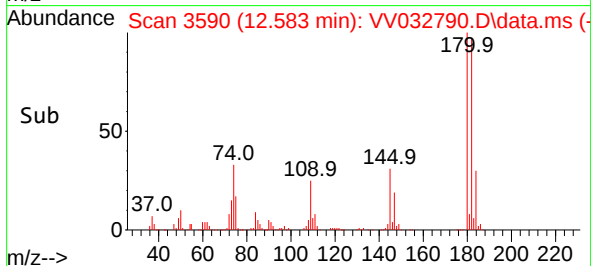
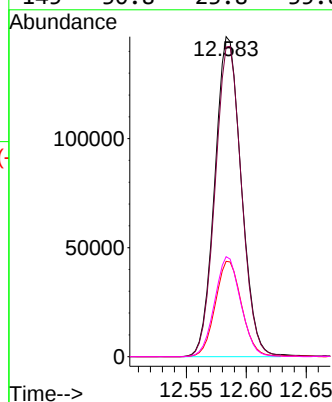
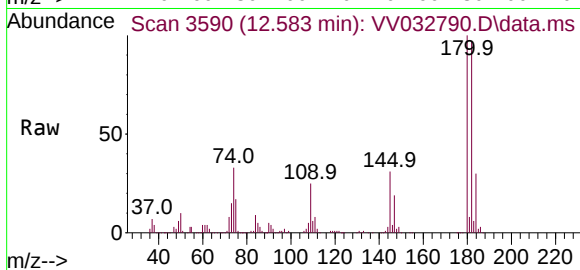
Ion Ratio Lower Upper

180 100

182 96.8 75.9 113.9

184 29.8 23.5 35.3

145 30.8 23.8 35.8



#70

1,2,4-trichlorobenzene

Concen: 51.944 ug/L

RT: 13.201 min Scan# 3782

Delta R.T. 0.000 min

Lab File: VV032790.D

Acq: 31 Oct 2023 11:17

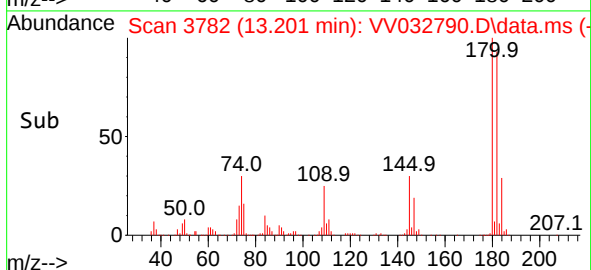
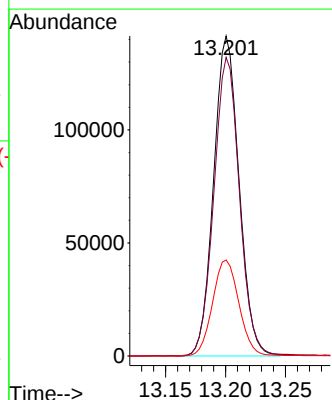
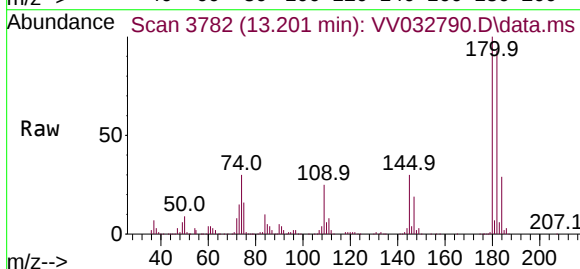
Tgt Ion:180 Resp: 208290

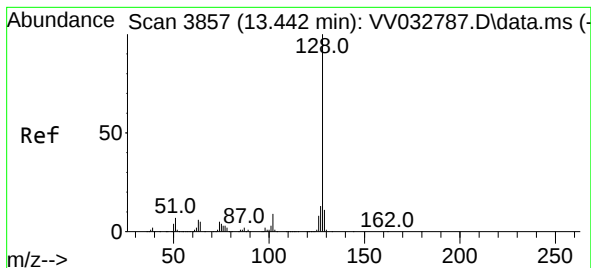
Ion Ratio Lower Upper

180 100

182 94.4 76.9 115.3

145 31.3 24.7 37.1





#71

Naphthalene

Concen: 60.971 ug/L

RT: 13.442 min Scan# 3857

Delta R.T. 0.000 min

Lab File: VV032790.D

Acq: 31 Oct 2023 11:17

Instrument :

MSVOA\_V

ClientSampleId :

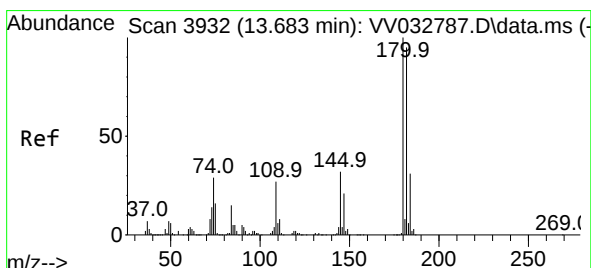
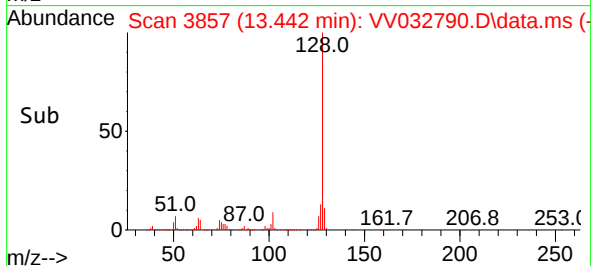
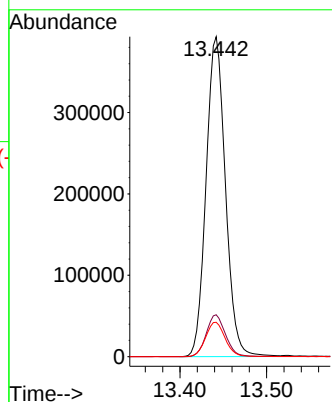
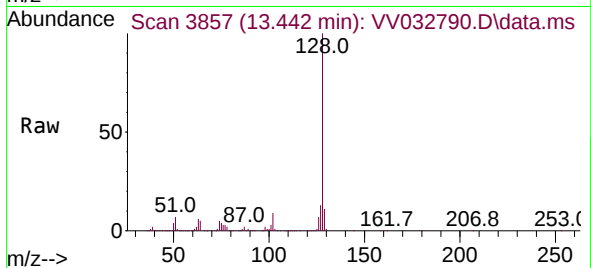
Tgt Ion:128 Resp: 610541

Ion Ratio Lower Upper

128 100

127 13.1 10.6 15.8

129 10.9 8.6 12.8



#72

1,2,3-Trichlorobenzene

Concen: 53.302 ug/L

RT: 13.683 min Scan# 3932

Delta R.T. 0.000 min

Lab File: VV032790.D

Acq: 31 Oct 2023 11:17

Tgt Ion:180 Resp: 213403

Ion Ratio Lower Upper

180 100

182 97.8 76.2 114.4

145 32.8 25.8 38.8

