

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW062124\  
 Data File : VW036230.D  
 Acq On : 22 Jun 2024 01:18  
 Operator : SY/MD  
 Sample : P2987-17 MS  
 Misc : 5.13g/10.0mL/MSVOA\_V/SOIL/A  
 ALS Vial : 40 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Jun 22 03:03:18 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM053024SMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Jun 22 02:57:23 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.529  | 114   | 601826   | 25.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.783  | 117   | 611309   | 25.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.181 | 152   | 330500   | 25.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.272  | 65    | 170974   | 15.452   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 61.800%  |
| 7) Chloroethane-d5            | 1.526  | 69    | 151302   | 17.150   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 68.600%  |
| 11) 1,1-Dichloroethene-d2     | 2.050  | 65    | 73745    | 14.972   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 45 - 110 | Recovery | =      | 59.880%  |
| 21) 2-Butanone-d5             | 3.844  | 46    | 63158    | 24.879   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 49.760%  |
| 24) Chloroform-d              | 4.239  | 84    | 340652   | 17.804   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 40 - 150 | Recovery | =      | 71.200%  |
| 26) 1,2-Dichloroethane-d4     | 4.937  | 65    | 179001   | 17.843   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 70 - 130 | Recovery | =      | 71.360%  |
| 32) Benzene-d6                | 4.953  | 84    | 665605   | 18.317   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 20 - 135 | Recovery | =      | 73.280%  |
| 36) 1,2-Dichloropropane-d6    | 5.985  | 67    | 203769   | 17.807   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 70 - 120 | Recovery | =      | 71.240%  |
| 41) Toluene-d8                | 7.239  | 98    | 602395   | 18.788   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 130 | Recovery | =      | 75.160%  |
| 43) trans-1,3-Dichloroprop... | 7.551  | 79    | 75285    | 16.046   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 135 | Recovery | =      | 64.200%  |
| 47) 2-Hexanone-d5             | 8.030  | 63    | 46802    | 30.187   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 60.380%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.149 | 84    | 151332   | 17.697   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 45 - 120 | Recovery | =      | 70.800%  |
| 66) 1,2-Dichlorobenzene-d4    | 11.557 | 152   | 220795   | 18.218   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 75 - 120 | Recovery | =      | 72.880%# |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.101  | 85    | 100418   | 9.254    | ug/L   | 100      |
| 3) Chloromethane              | 1.211  | 50    | 129750   | 10.419   | ug/L   | 99       |
| 5) Vinyl chloride             | 1.275  | 62    | 144853   | 11.049   | ug/L   | 100      |
| 6) Bromomethane               | 1.481  | 94    | 100499   | 12.356   | ug/L   | 100      |
| 8) Chloroethane               | 1.542  | 64    | 97334    | 11.944   | ug/L   | 98       |
| 9) Trichlorofluoromethane     | 1.706  | 101   | 188961   | 11.606   | ug/L   | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.059  | 101   | 117459   | 11.367   | ug/L   | 98       |
| 12) 1,1-Dichloroethene        | 2.059  | 96    | 115939   | 12.030   | ug/L   | 84       |
| 13) Acetone                   | 2.156  | 43    | 42073    | 10.639   | ug/L   | 99       |
| 14) Carbon disulfide          | 2.233  | 76    | 366540   | 10.952   | ug/L   | 99       |
| 15) Methyl Acetate            | 2.387  | 43    | 45329    | 9.222    | ug/L   | 93       |
| 16) Methylene chloride        | 2.439  | 84    | 182636   | 13.411   | ug/L   | 98       |
| 17) trans-1,2-Dichloroethene  | 2.686  | 96    | 122067   | 11.924   | ug/L   | 97       |
| 18) Methyl tert-butyl Ether   | 2.703  | 73    | 296998   | 12.923   | ug/L   | 98       |
| 19) 1,1-Dichloroethane        | 3.104  | 63    | 244788   | 12.556   | ug/L   | 99       |
| 20) cis-1,2-Dichloroethene    | 3.809  | 96    | 170261   | 16.551   | ug/L   | 96       |
| 22) 2-Butanone                | 3.924  | 43    | 31238    | 9.310    | ug/L   | 92       |
| 23) Bromochloromethane        | 4.140  | 128   | 68322    | 13.241   | ug/L   | 97       |
| 25) Chloroform                | 4.268  | 83    | 264579   | 13.193   | ug/L   | 99       |

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 ClientSampleId :

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 Quant Title : VOC Analysis  
 QLast Update : Sat Jun 22 02:57:23 2024  
 Response via : Initial Calibration

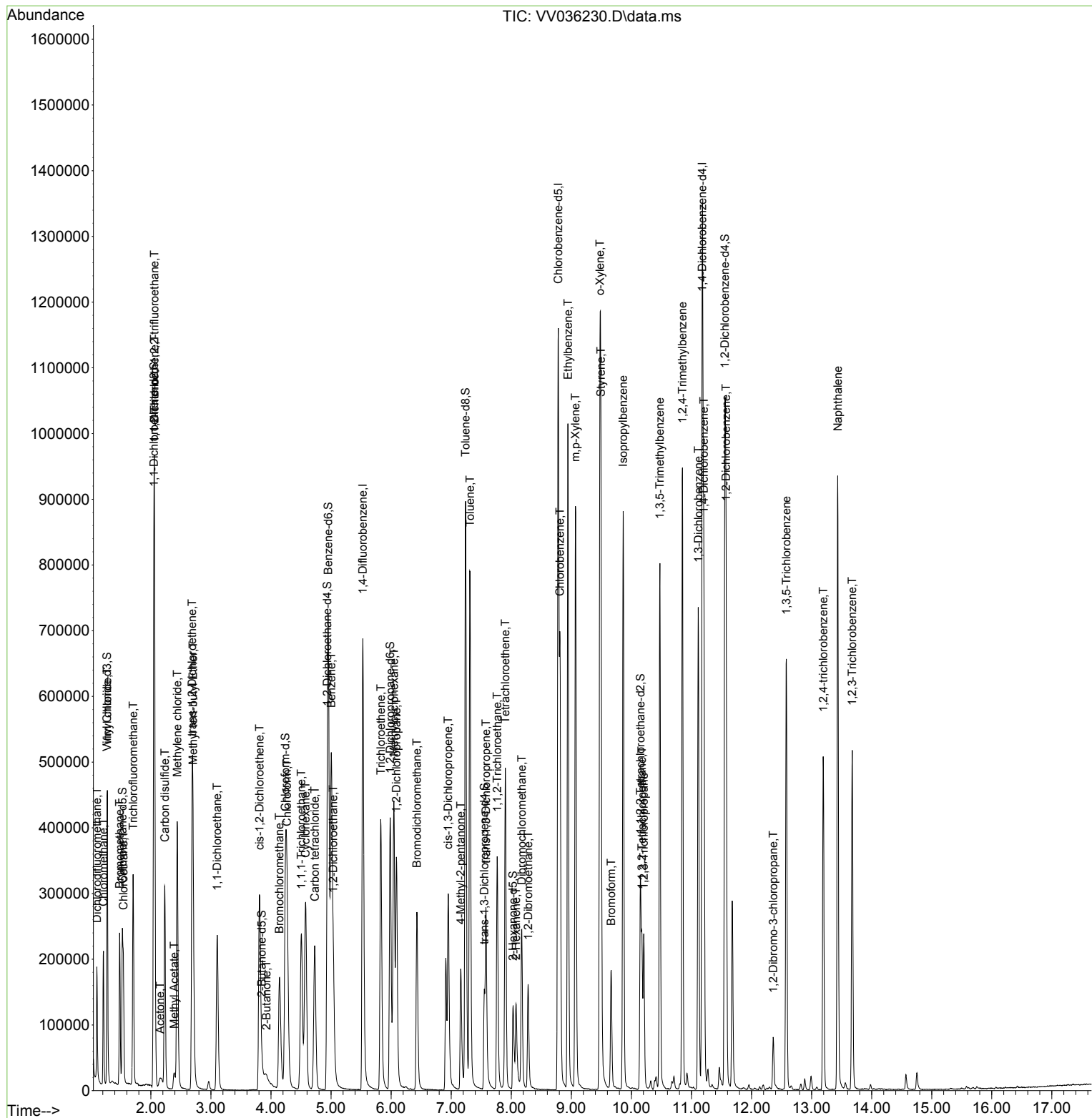
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.037  | 62   | 166945   | 13.334 | ug/L  | 100      |
| 29) Cyclohexane               | 4.577  | 56   | 144092   | 9.900  | ug/L  | 97       |
| 30) 1,1,1-Trichloroethane     | 4.506  | 97   | 200129   | 11.975 | ug/L  | 99       |
| 31) Carbon tetrachloride      | 4.728  | 117  | 169363   | 11.552 | ug/L  | 100      |
| 33) Benzene                   | 5.005  | 78   | 534709   | 13.374 | ug/L  | 100      |
| 34) Trichloroethene           | 5.828  | 95   | 146621   | 11.965 | ug/L  | 99       |
| 35) Methylcyclohexane         | 6.046  | 83   | 179655   | 10.602 | ug/L  | 98       |
| 37) 1,2-Dichloropropane       | 6.088  | 63   | 141260   | 13.456 | ug/L  | 98       |
| 38) Bromodichloromethane      | 6.429  | 83   | 191409   | 13.775 | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene   | 6.950  | 75   | 196804   | 12.534 | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone      | 7.159  | 43   | 123876   | 21.718 | ug/L  | 98       |
| 42) Toluene                   | 7.313  | 91   | 586442   | 14.355 | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene | 7.580  | 75   | 169961   | 12.531 | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane     | 7.767  | 97   | 112457   | 12.946 | ug/L  | 99       |
| 46) Tetrachloroethene         | 7.902  | 164  | 109042   | 12.167 | ug/L  | 99       |
| 48) 2-Hexanone                | 8.082  | 43   | 82624    | 18.529 | ug/L  | 97       |
| 49) Dibromochloromethane      | 8.175  | 129  | 127300   | 13.390 | ug/L  | 100      |
| 50) 1,2-Dibromoethane         | 8.281  | 107  | 106655   | 12.796 | ug/L  | 99       |
| 51) Chlorobenzene             | 8.812  | 112  | 366018   | 13.149 | ug/L  | 99       |
| 52) Ethylbenzene              | 8.943  | 91   | 671561   | 15.364 | ug/L  | 100      |
| 53) m,p-Xylene                | 9.069  | 106  | 242202   | 14.747 | ug/L  | 99       |
| 54) o-Xylene                  | 9.477  | 106  | 237299   | 15.321 | ug/L  | 96       |
| 55) Styrene                   | 9.493  | 104  | 394800   | 14.455 | ug/L  | 100      |
| 57) 1,1,2,2-Tetrachloroethane | 10.175 | 83   | 107203   | 13.783 | ug/L  | 99       |
| 59) Bromoform                 | 9.664  | 173  | 80356    | 12.892 | ug/L  | 98       |
| 60) Isopropylbenzene          | 9.863  | 105  | 539593   | 12.726 | ug/L  | 100      |
| 61) 1,2,3-Trichloropropane    | 10.207 | 75   | 94515    | 12.092 | ug/L  | 97       |
| 62) 1,3,5-Trimethylbenzene    | 10.474 | 105  | 400664   | 13.031 | ug/L  | 98       |
| 63) 1,2,4-Trimethylbenzene    | 10.850 | 105  | 484269   | 14.618 | ug/L  | 100      |
| 64) 1,3-Dichlorobenzene       | 11.114 | 146  | 288990   | 12.978 | ug/L  | 100      |
| 65) 1,4-Dichlorobenzene       | 11.207 | 146  | 304907   | 13.266 | ug/L  | 99       |
| 67) 1,2-Dichlorobenzene       | 11.577 | 146  | 283733   | 13.541 | ug/L  | 100      |
| 68) 1,2-Dibromo-3-chloropr... | 12.361 | 75   | 20402    | 11.672 | ug/L  | 99       |
| 69) 1,3,5-Trichlorobenzene    | 12.580 | 180  | 196441   | 11.794 | ug/L  | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.194 | 180  | 154721   | 11.797 | ug/L  | 99       |
| 71) Naphthalene               | 13.435 | 128  | 700393   | 32.724 | ug/L  | 100      |
| 72) 1,2,3-Trichlorobenzene    | 13.676 | 180  | 154183   | 12.883 | ug/L  | 99       |

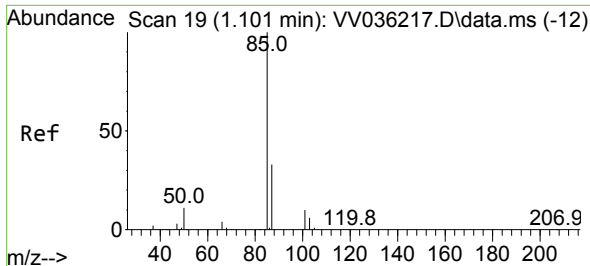
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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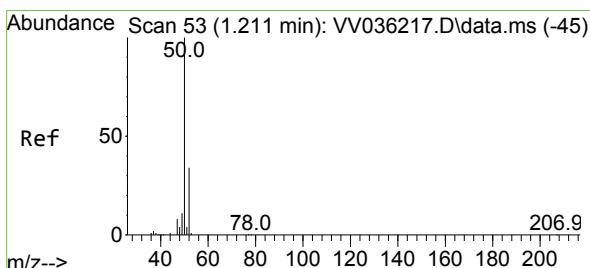
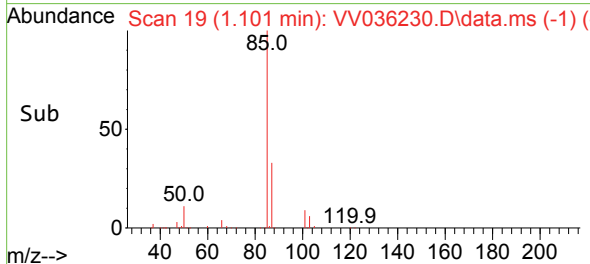
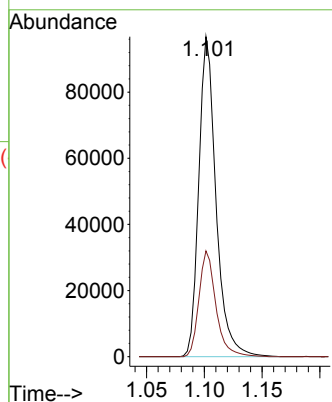
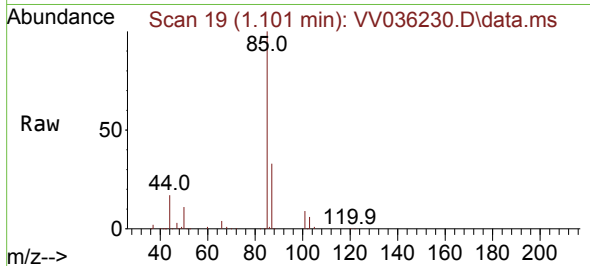




#2  
 Dichlorodifluoromethane  
 Concen: 9.254 ug/L  
 RT: 1.101 min Scan# 19  
 Delta R.T. 0.000 min  
 Lab File: VV036230.D  
 Acq: 22 Jun 2024 01:18

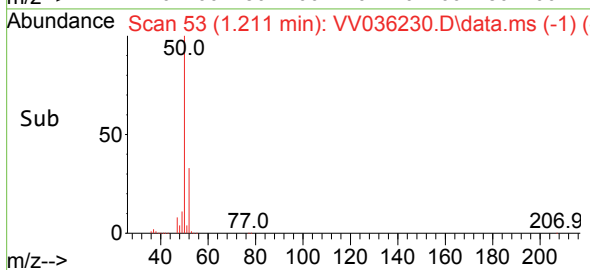
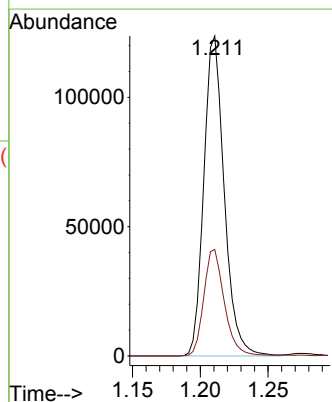
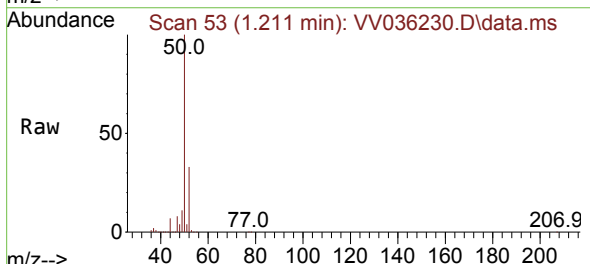
Instrument :  
 MSVOA\_V  
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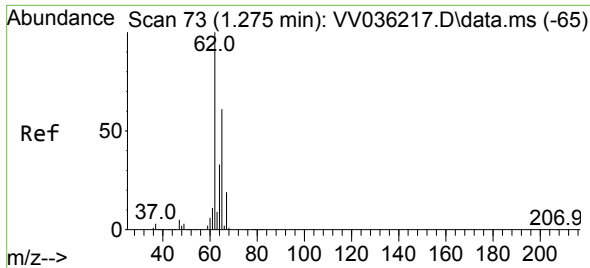
Tgt Ion: 85 Resp: 100418  
 Ion Ratio Lower Upper  
 85 100  
 87 32.6 25.9 38.9



#3  
 Chloromethane  
 Concen: 10.419 ug/L  
 RT: 1.211 min Scan# 53  
 Delta R.T. 0.000 min  
 Lab File: VV036230.D  
 Acq: 22 Jun 2024 01:18

Tgt Ion: 50 Resp: 129750  
 Ion Ratio Lower Upper  
 50 100  
 52 33.3 22.8 42.4



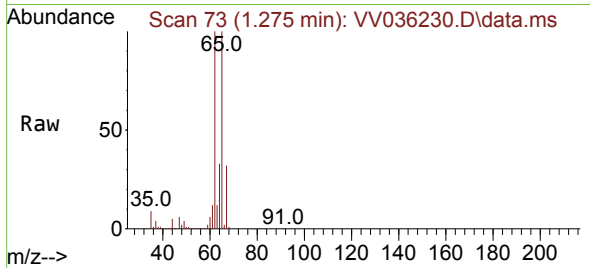


#5  
 Vinyl chloride  
 Concen: 11.049 ug/L  
 RT: 1.275 min Scan# 71  
 Delta R.T. 0.000 min  
 Lab File: VV036230.D  
 Acq: 22 Jun 2024 01:18

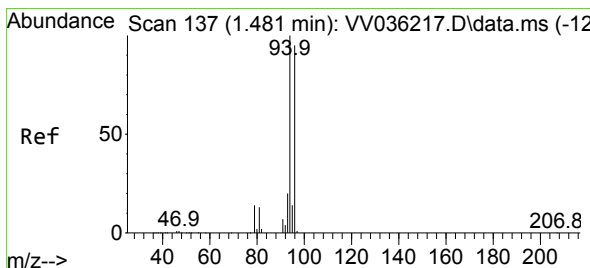
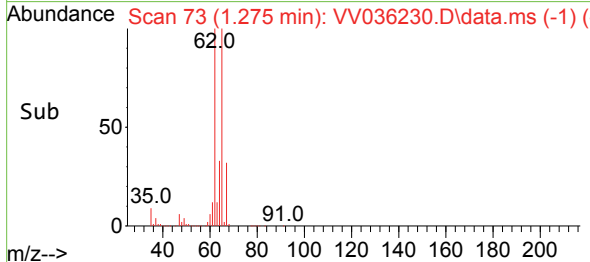
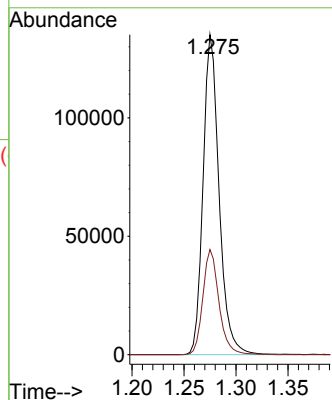
Instrument :

MSVOA\_V

ClientSampleId :

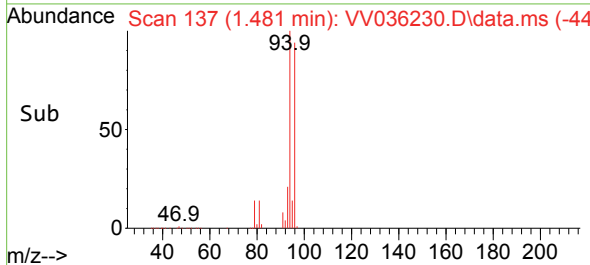
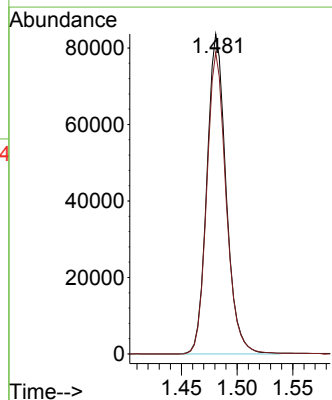
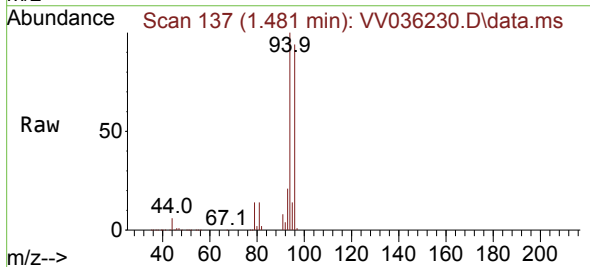


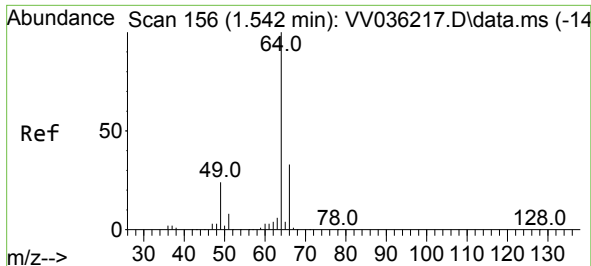
Tgt Ion: 62 Resp: 144853  
 Ion Ratio Lower Upper  
 62 100  
 64 32.8 22.9 42.5



#6  
 Bromomethane  
 Concen: 12.356 ug/L  
 RT: 1.481 min Scan# 137  
 Delta R.T. 0.000 min  
 Lab File: VV036230.D  
 Acq: 22 Jun 2024 01:18

Tgt Ion: 94 Resp: 100499  
 Ion Ratio Lower Upper  
 94 100  
 96 94.2 65.7 122.1

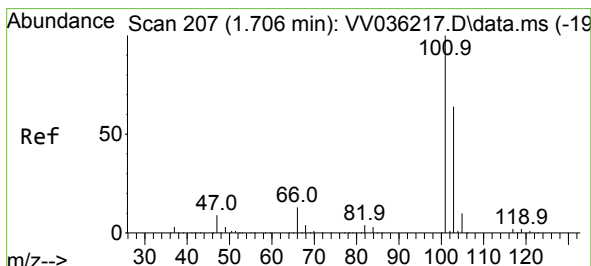
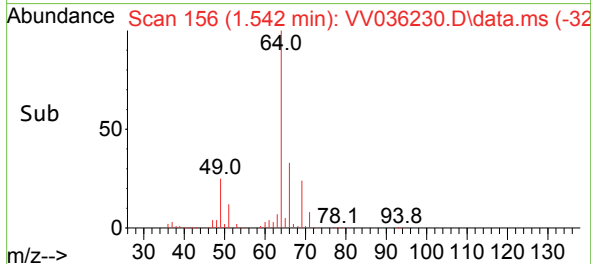
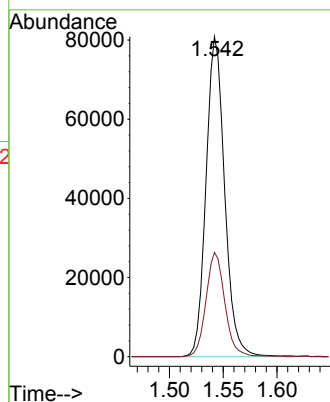
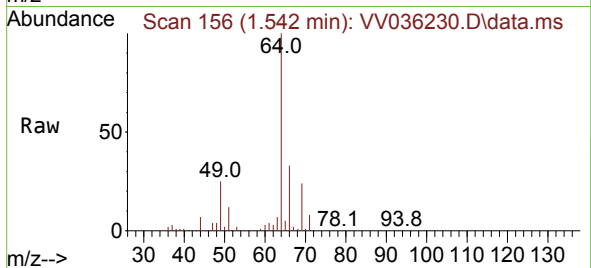




#8  
Chloroethane  
Concen: 11.944 ug/L  
RT: 1.542 min Scan# 156  
Delta R.T. 0.000 min  
Lab File: VV036230.D  
Acq: 22 Jun 2024 01:18

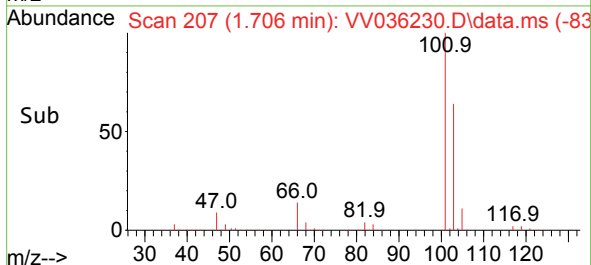
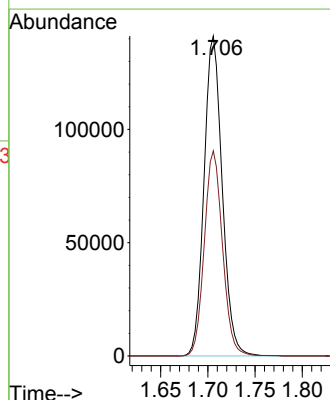
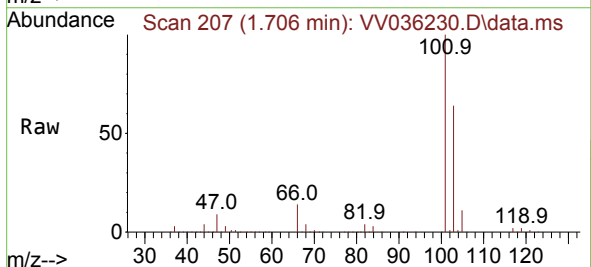
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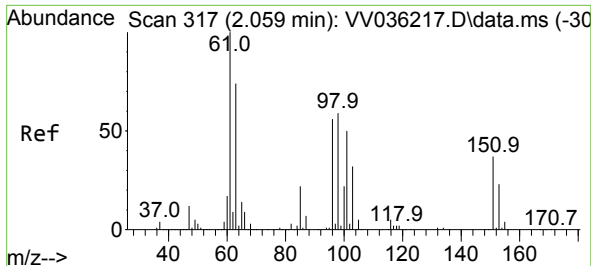
Tgt Ion: 64 Resp: 97334  
Ion Ratio Lower Upper  
64 100  
66 32.6 22.0 41.0



#9  
Trichlorofluoromethane  
Concen: 11.606 ug/L  
RT: 1.706 min Scan# 207  
Delta R.T. 0.000 min  
Lab File: VV036230.D  
Acq: 22 Jun 2024 01:18

Tgt Ion:101 Resp: 188961  
Ion Ratio Lower Upper  
101 100  
103 64.1 51.8 77.8

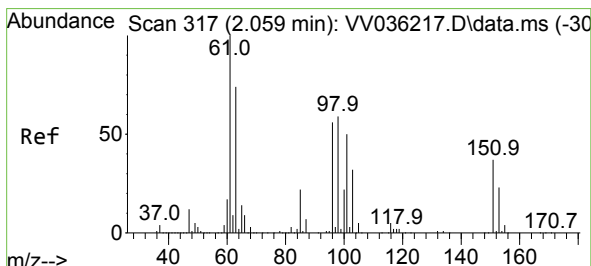
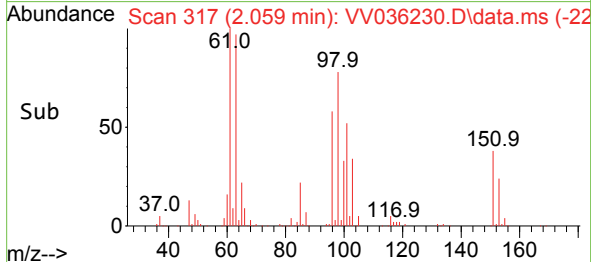
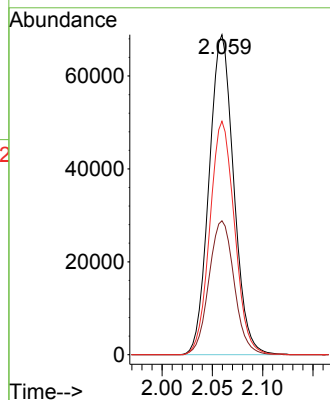
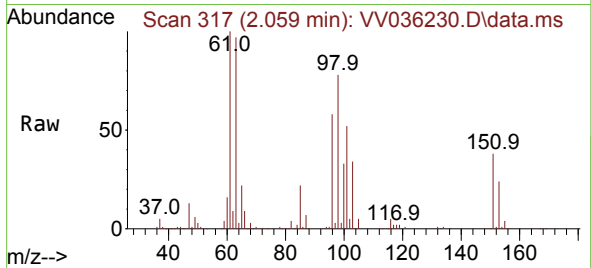




#10  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 11.367 ug/L  
 RT: 2.059 min Scan# 317  
 Delta R.T. 0.000 min  
 Lab File: VV036230.D  
 Acq: 22 Jun 2024 01:18

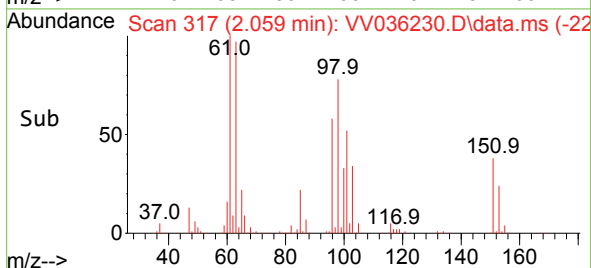
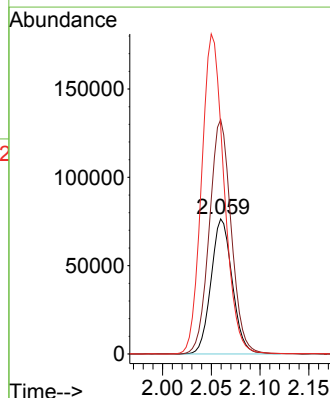
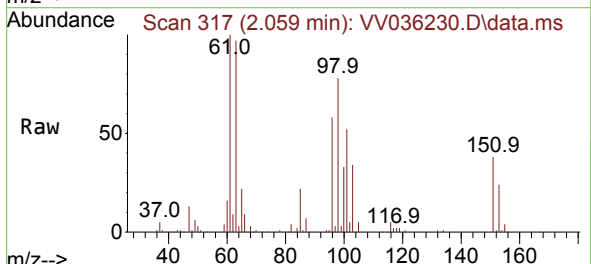
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 ClientSampleId :

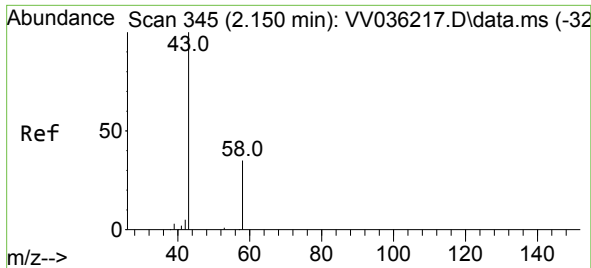
Tgt Ion:101 Resp: 117459  
 Ion Ratio Lower Upper  
 101 100  
 85 42.9 34.5 51.7  
 151 73.3 56.3 84.5



#12  
 1,1-Dichloroethene  
 Concen: 12.030 ug/L  
 RT: 2.059 min Scan# 317  
 Delta R.T. 0.000 min  
 Lab File: VV036230.D  
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Tgt Ion: 96 Resp: 115939  
 Ion Ratio Lower Upper  
 96 100  
 61 173.5 127.3 236.3  
 63 168.5 93.7 173.9





#13

Acetone

Concen: 10.639 ug/L

RT: 2.156 min Scan# 345

Delta R.T. 0.006 min

Lab File: VV036230.D

Acq: 22 Jun 2024 01:18

Instrument :

MSVOA\_V

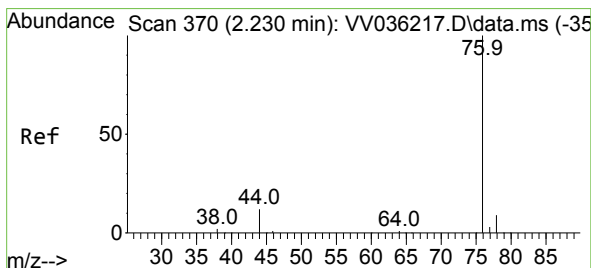
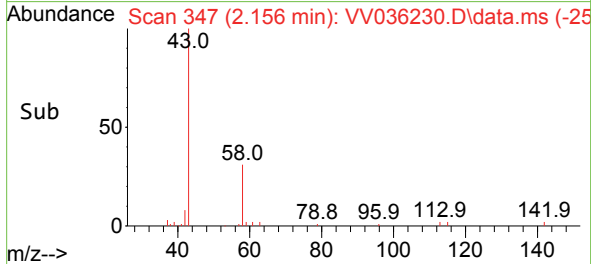
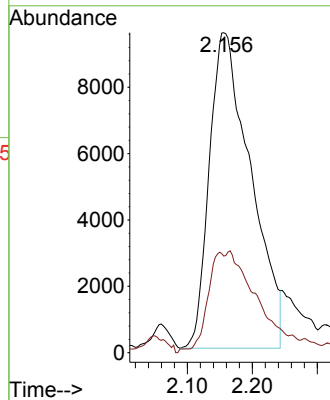
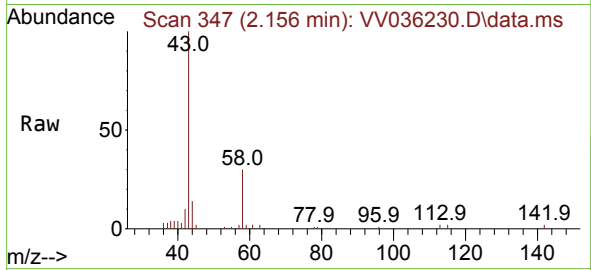
ClientSampleId :

Tgt Ion: 43 Resp: 42073

Ion Ratio Lower Upper

43 100

58 11.6 0.0 24.2



#14

Carbon disulfide

Concen: 10.952 ug/L

RT: 2.233 min Scan# 371

Delta R.T. 0.003 min

Lab File: VV036230.D

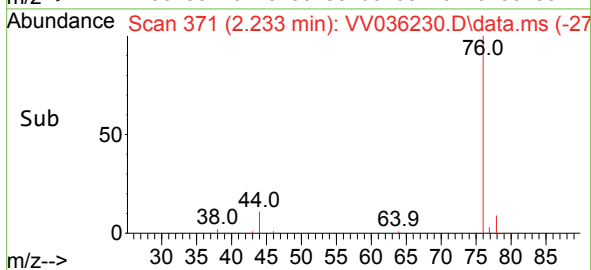
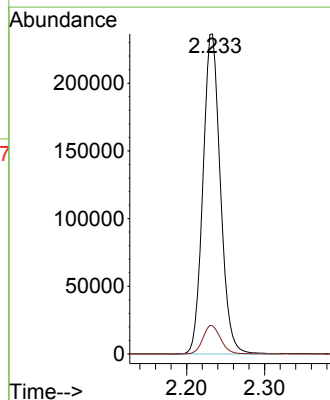
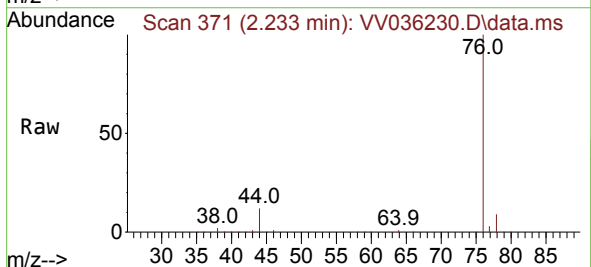
Acq: 22 Jun 2024 01:18

Tgt Ion: 76 Resp: 366540

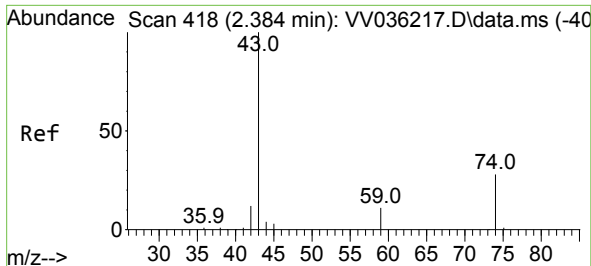
Ion Ratio Lower Upper

76 100

78 8.8 7.4 11.2



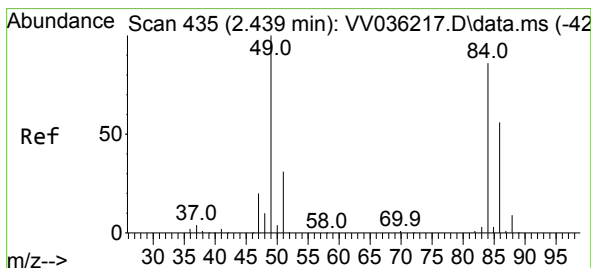
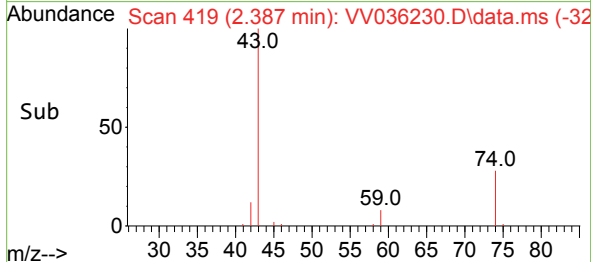
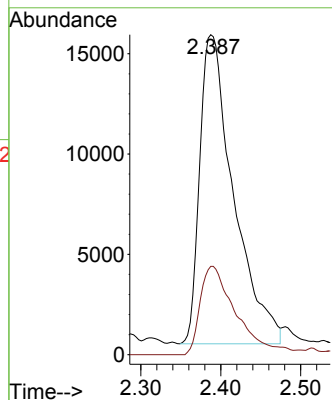
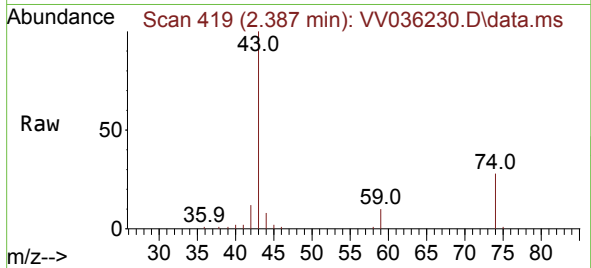




#15  
Methyl Acetate  
Concen: 9.222 ug/L  
RT: 2.387 min Scan# 418  
Delta R.T. 0.003 min  
Lab File: VV036230.D  
Acq: 22 Jun 2024 01:18

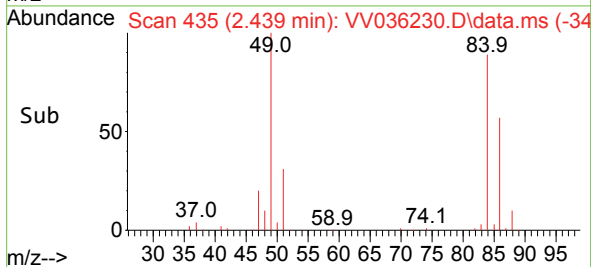
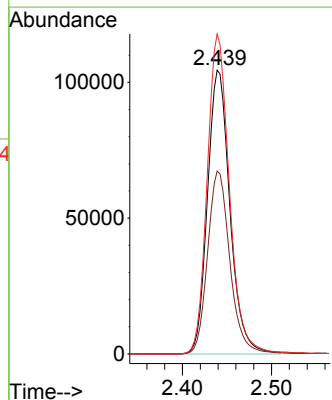
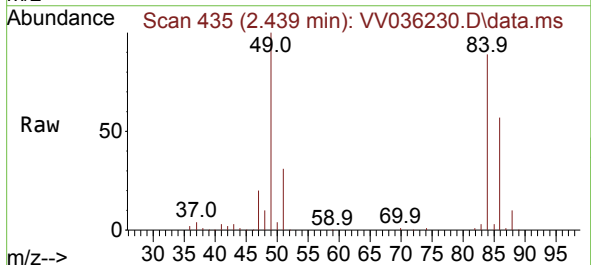
Instrument :  
MSVOA\_V  
ClientSampleId :

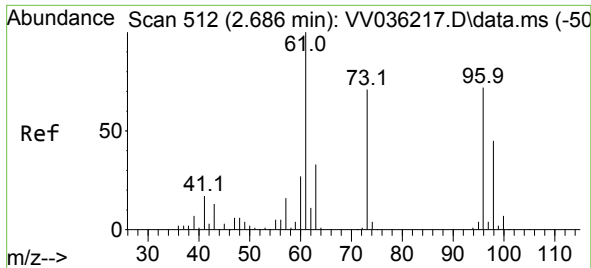
Tgt Ion: 43 Resp: 45329  
Ion Ratio Lower Upper  
43 100  
74 30.3 21.4 32.2



#16  
Methylene chloride  
Concen: 13.411 ug/L  
RT: 2.439 min Scan# 435  
Delta R.T. 0.000 min  
Lab File: VV036230.D  
Acq: 22 Jun 2024 01:18

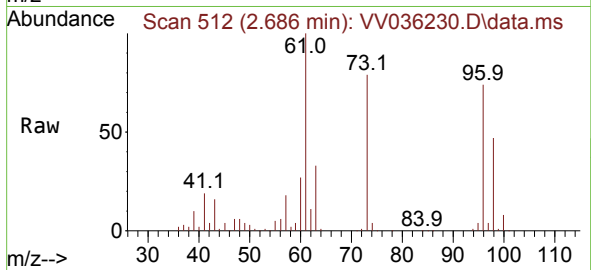
Tgt Ion: 84 Resp: 182636  
Ion Ratio Lower Upper  
84 100  
86 64.4 44.6 82.8  
49 112.8 81.1 150.5





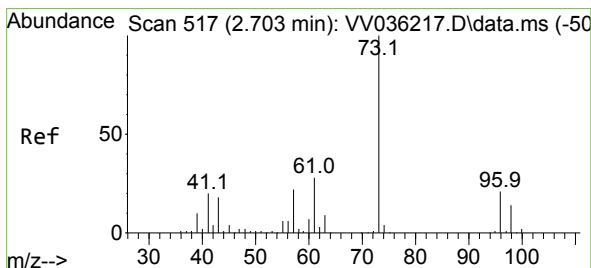
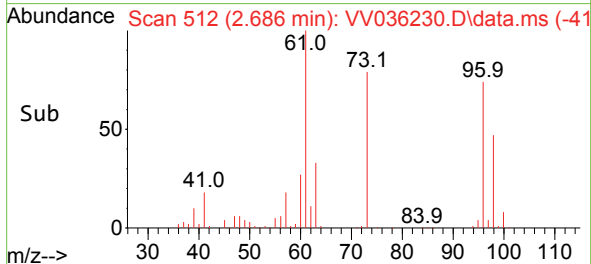
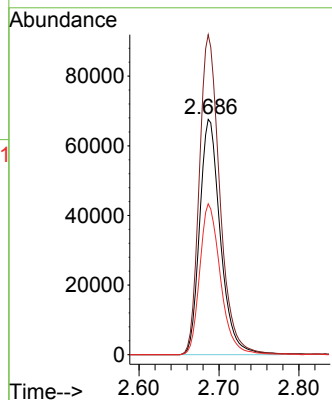
#17  
trans-1,2-Dichloroethene  
Concen: 11.924 ug/L  
RT: 2.686 min Scan# 512  
Delta R.T. 0.000 min  
Lab File: VV036230.D  
Acq: 22 Jun 2024 01:18

Instrument :  
MSVOA\_V  
ClientSampleId :



Tgt Ion: 96 Resp: 122067

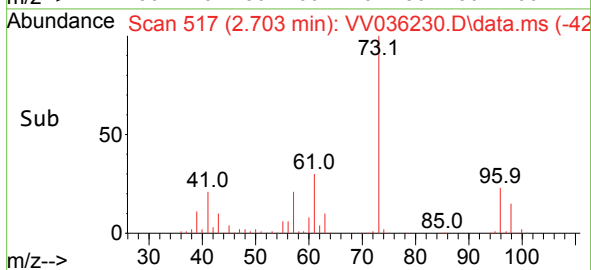
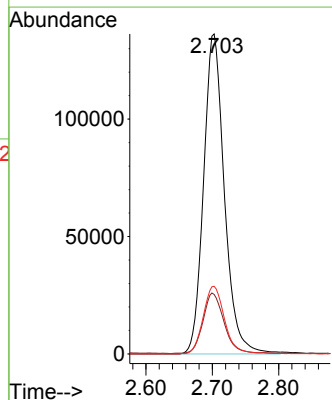
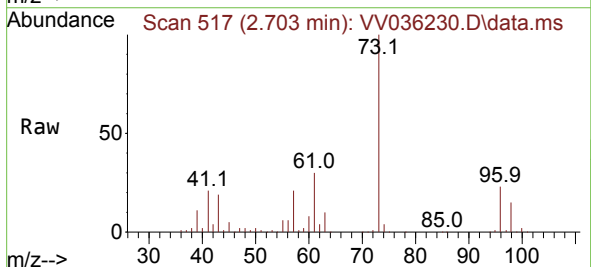
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 135.9 | 99.4  | 184.6 |
| 98  | 64.1  | 44.9  | 83.3  |

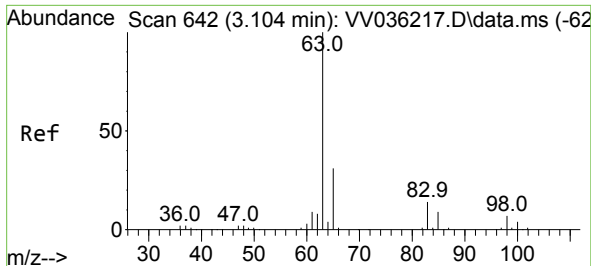


#18  
Methyl tert-butyl Ether  
Concen: 12.923 ug/L  
RT: 2.703 min Scan# 517  
Delta R.T. 0.000 min  
Lab File: VV036230.D  
Acq: 22 Jun 2024 01:18

Tgt Ion: 73 Resp: 296998

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 73  | 100   |       |       |
| 43  | 19.0  | 14.3  | 21.5  |
| 57  | 21.6  | 17.8  | 26.6  |





#19

1,1-Dichloroethane

Concen: 12.556 ug/L

RT: 3.104 min Scan# 64

Delta R.T. 0.000 min

Lab File: VV036230.D

Acq: 22 Jun 2024 01:18

Instrument :

MSVOA\_V

ClientSampleId :

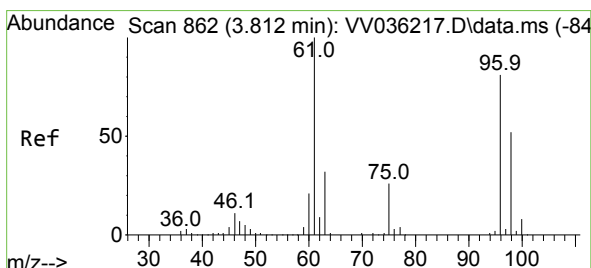
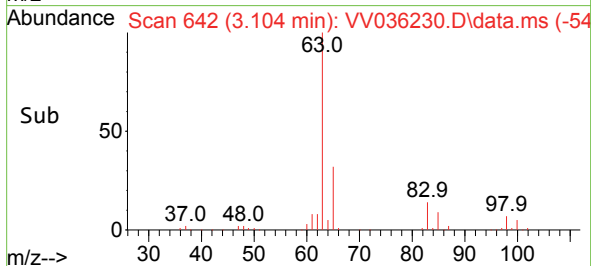
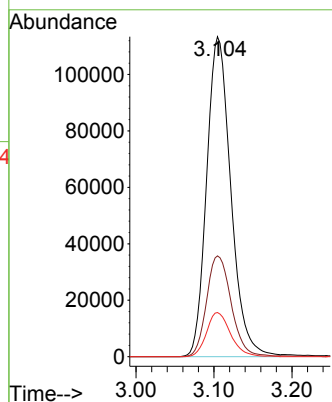
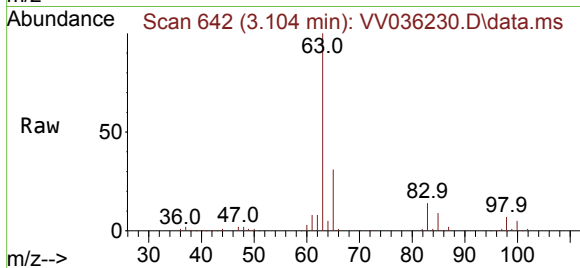
Tgt Ion: 63 Resp: 244788

Ion Ratio Lower Upper

63 100

65 31.5 22.4 41.6

83 13.8 9.2 17.0



#20

cis-1,2-Dichloroethene

Concen: 16.551 ug/L

RT: 3.809 min Scan# 861

Delta R.T. -0.003 min

Lab File: VV036230.D

Acq: 22 Jun 2024 01:18

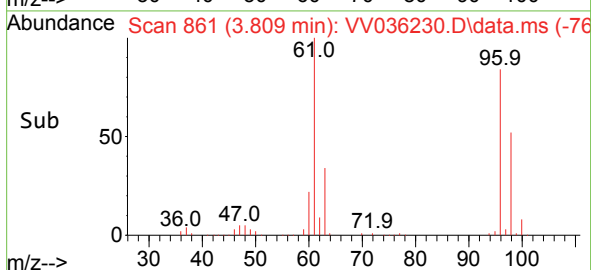
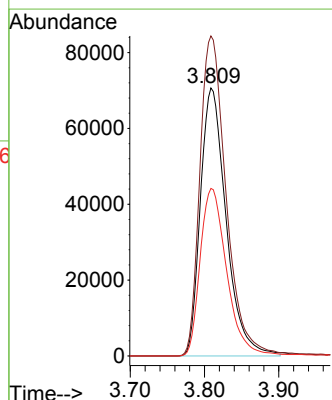
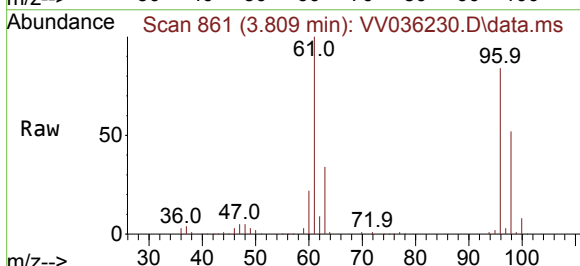
Tgt Ion: 96 Resp: 170261

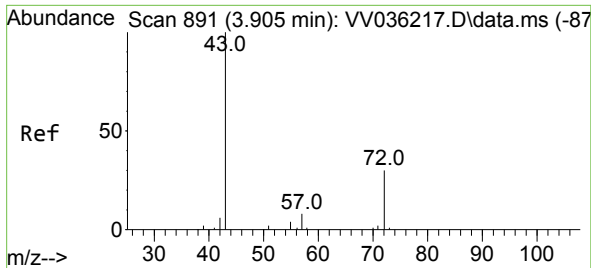
Ion Ratio Lower Upper

96 100

61 119.4 87.9 163.3

98 62.5 44.4 82.5

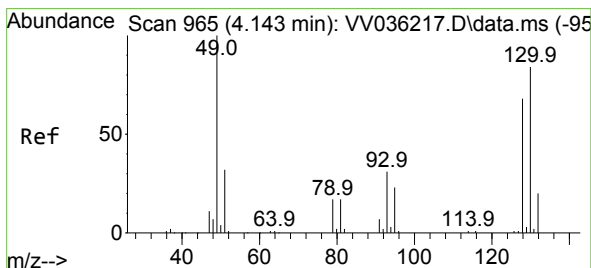
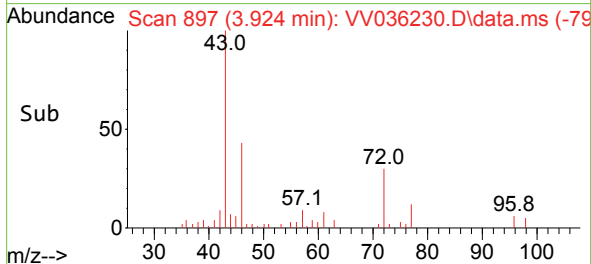
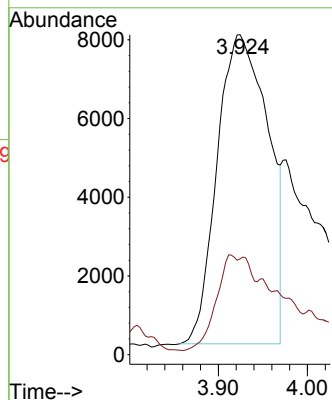
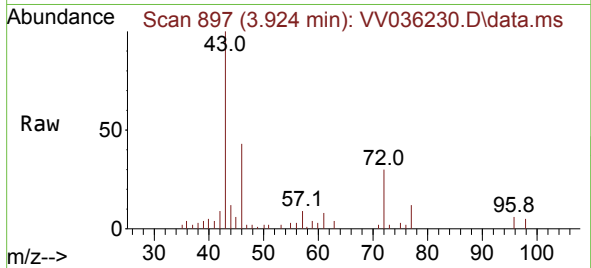




#22  
2-Butanone  
Concen: 9.310 ug/L  
RT: 3.924 min Scan# 891  
Delta R.T. 0.019 min  
Lab File: VV036230.D  
Acq: 22 Jun 2024 01:18

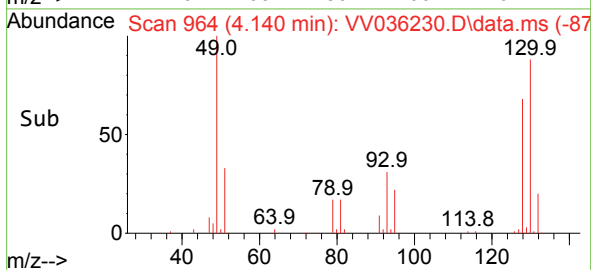
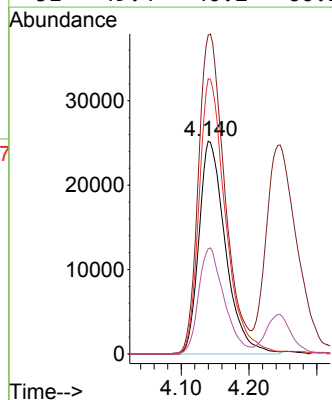
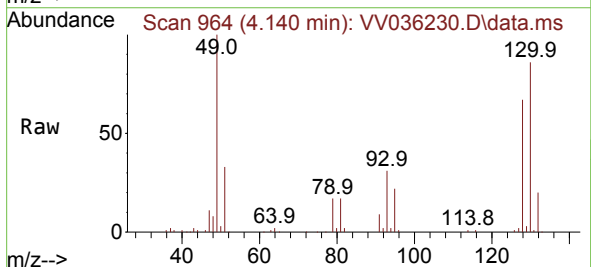
Instrument :  
MSVOA\_V  
ClientSampleId :

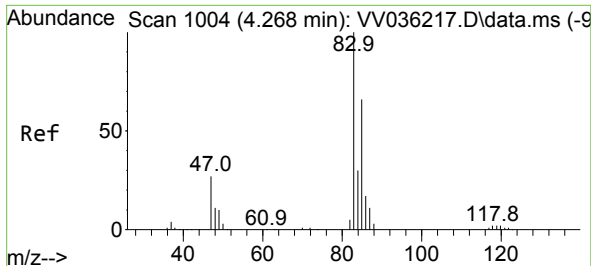
Tgt Ion: 43 Resp: 31238  
Ion Ratio Lower Upper  
43 100  
72 12.7 8.2 24.4



#23  
Bromochloromethane  
Concen: 13.241 ug/L  
RT: 4.140 min Scan# 964  
Delta R.T. -0.003 min  
Lab File: VV036230.D  
Acq: 22 Jun 2024 01:18

Tgt Ion:128 Resp: 68322  
Ion Ratio Lower Upper  
128 100  
49 149.8 110.2 204.6  
130 129.3 90.2 167.4  
51 49.4 40.2 60.2

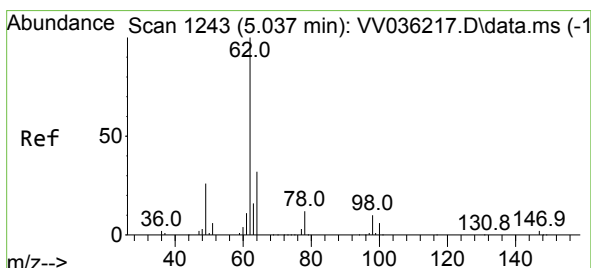
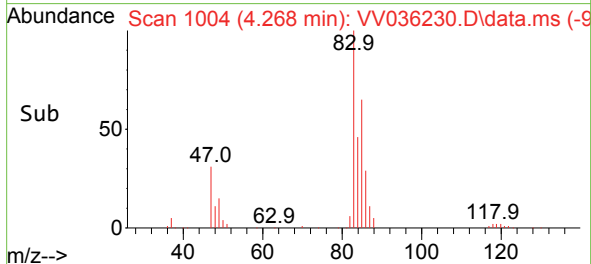
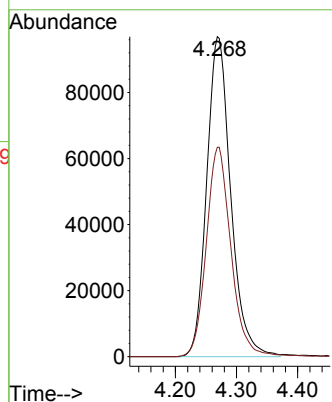
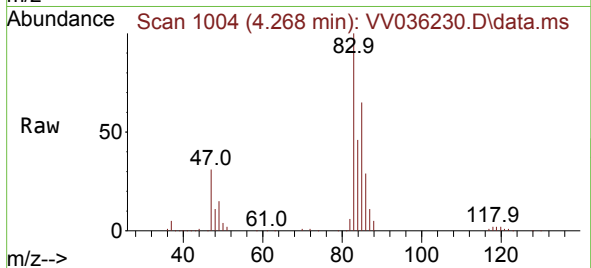




#25  
Chloroform  
Concen: 13.193 ug/L  
RT: 4.268 min Scan# 1004  
Delta R.T. 0.000 min  
Lab File: VV036230.D  
Acq: 22 Jun 2024 01:18

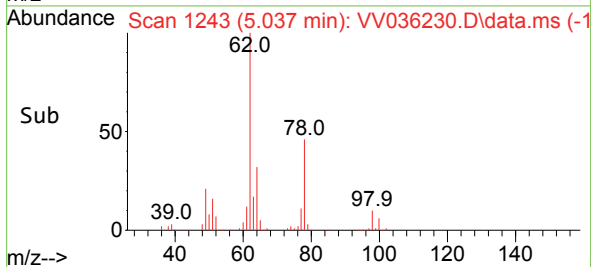
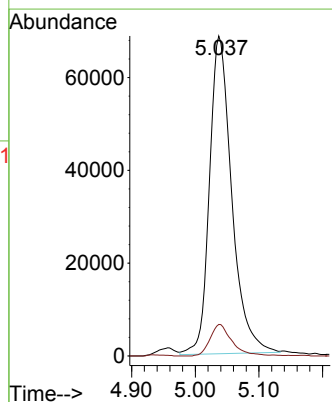
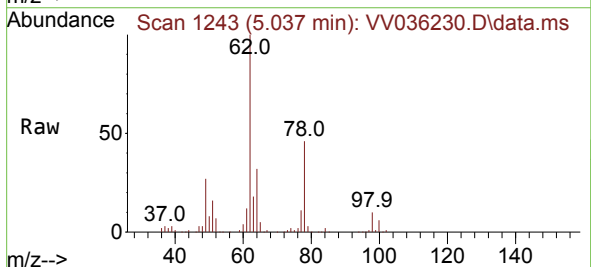
Instrument :  
MSVOA\_V  
ClientSampleId :

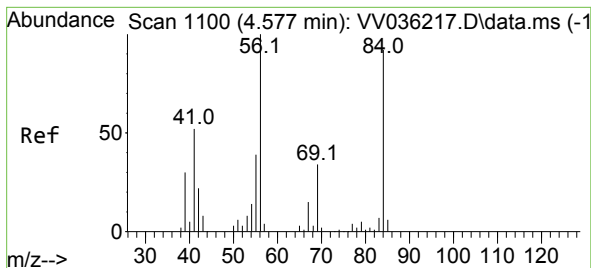
Tgt Ion: 83 Resp: 264579  
Ion Ratio Lower Upper  
83 100  
85 65.5 45.2 84.0



#27  
1,2-Dichloroethane  
Concen: 13.334 ug/L  
RT: 5.037 min Scan# 1243  
Delta R.T. 0.000 min  
Lab File: VV036230.D  
Acq: 22 Jun 2024 01:18

Tgt Ion: 62 Resp: 166945  
Ion Ratio Lower Upper  
62 100  
98 9.8 7.8 11.6





#29

Cyclohexane

Concen: 9.900 ug/L

RT: 4.577 min Scan# 1100

Delta R.T. 0.000 min

Lab File: VV036230.D

Acq: 22 Jun 2024 01:18

Instrument :

MSVOA\_V

ClientSampleId :

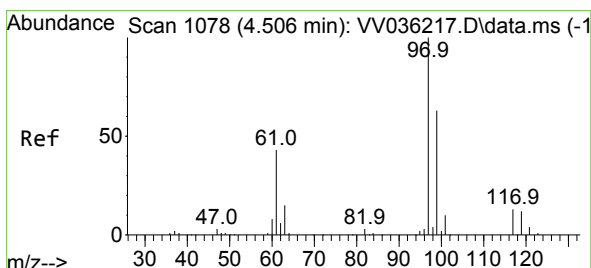
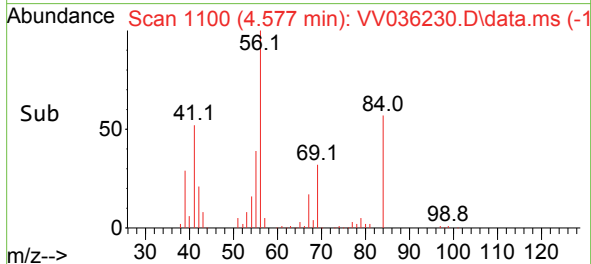
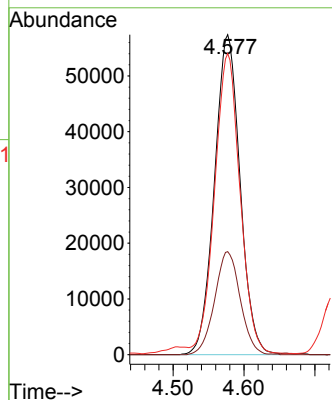
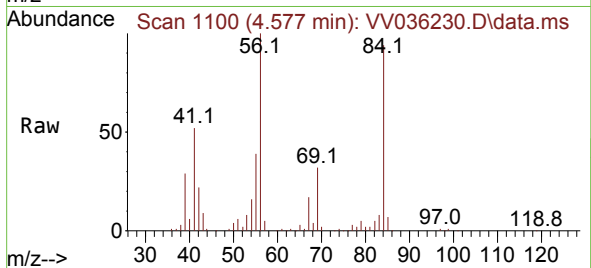
Tgt Ion: 56 Resp: 144092

Ion Ratio Lower Upper

56 100

69 32.2 25.2 37.8

84 93.4 72.2 108.2



#30

1,1,1-Trichloroethane

Concen: 11.975 ug/L

RT: 4.506 min Scan# 1078

Delta R.T. 0.000 min

Lab File: VV036230.D

Acq: 22 Jun 2024 01:18

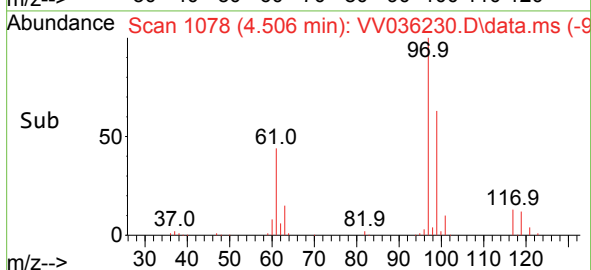
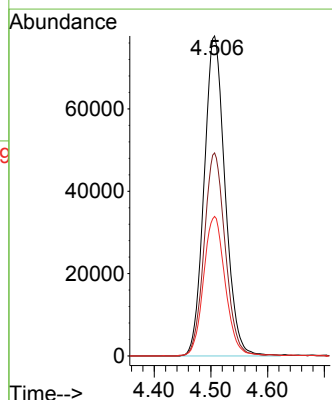
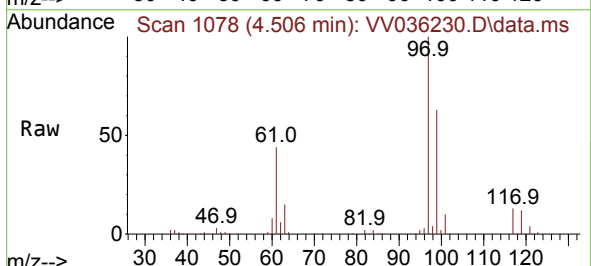
Tgt Ion: 97 Resp: 200129

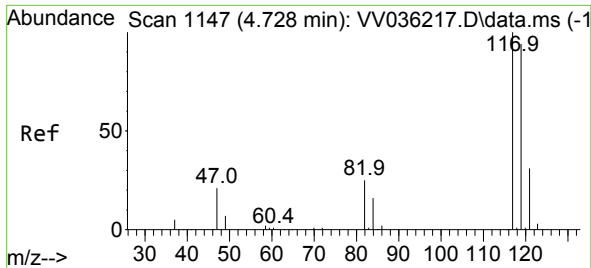
Ion Ratio Lower Upper

97 100

99 64.0 50.9 76.3

61 45.1 35.0 52.6

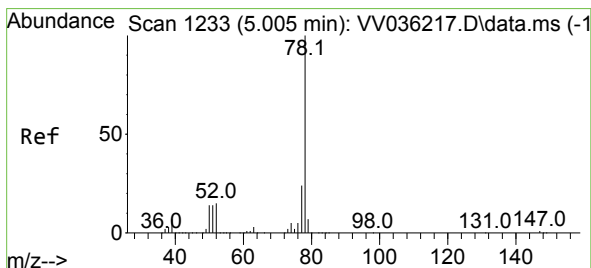
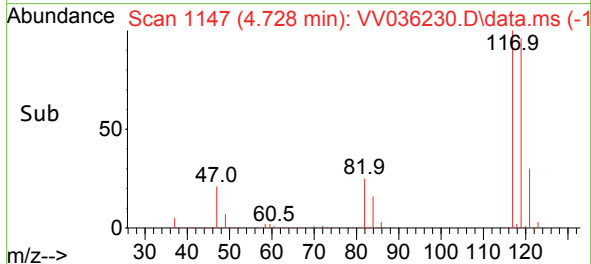
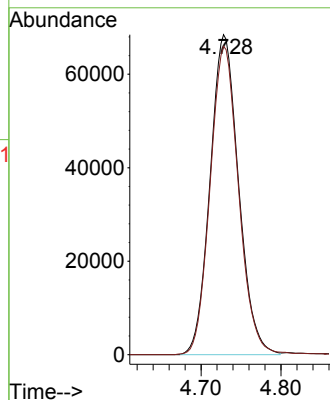
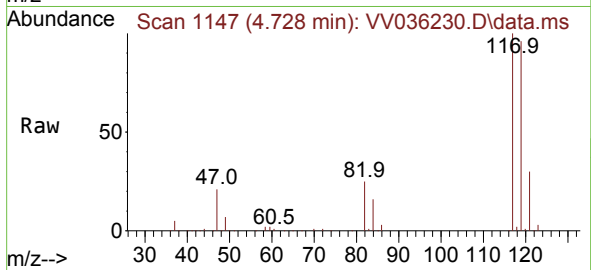




#31  
Carbon tetrachloride  
Concen: 11.552 ug/L  
RT: 4.728 min Scan# 1147  
Delta R.T. 0.000 min  
Lab File: VV036230.D  
Acq: 22 Jun 2024 01:18

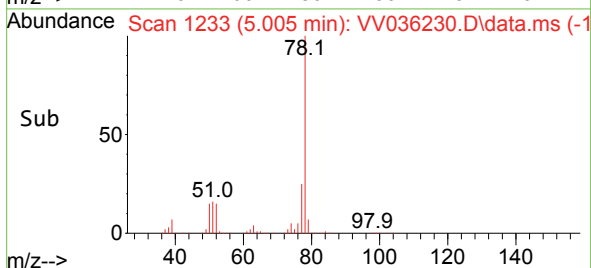
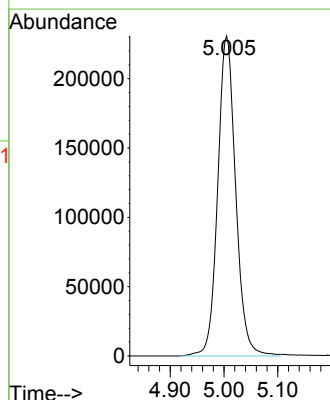
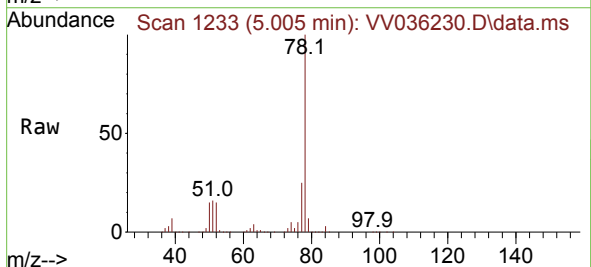
Instrument :  
MSVOA\_V  
ClientSampleId :

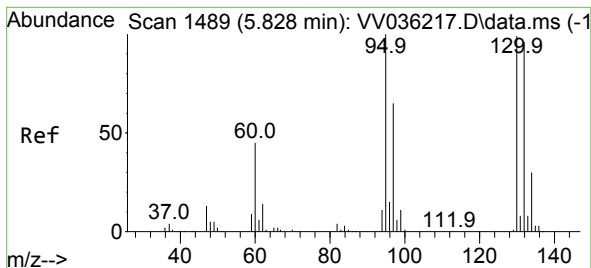
Tgt Ion:117 Resp: 169363  
Ion Ratio Lower Upper  
117 100  
119 96.3 76.8 115.2



#33  
Benzene  
Concen: 13.374 ug/L  
RT: 5.005 min Scan# 1233  
Delta R.T. 0.000 min  
Lab File: VV036230.D  
Acq: 22 Jun 2024 01:18

Tgt Ion: 78 Resp: 534709





#34

Trichloroethene

Concen: 11.965 ug/L

RT: 5.828 min Scan# 1489

Delta R.T. 0.000 min

Lab File: VV036230.D

Acq: 22 Jun 2024 01:18

Instrument :

MSVOA\_V

ClientSampleId :

Tgt Ion: 95 Resp: 146621

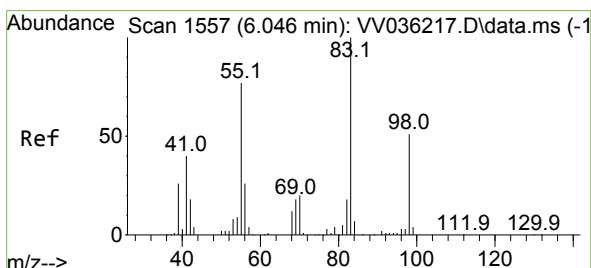
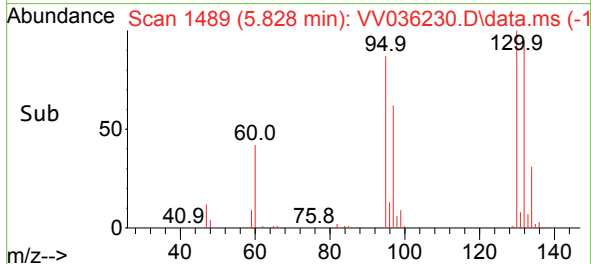
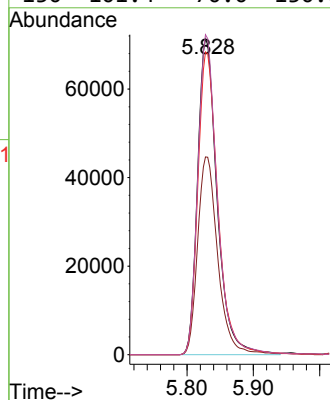
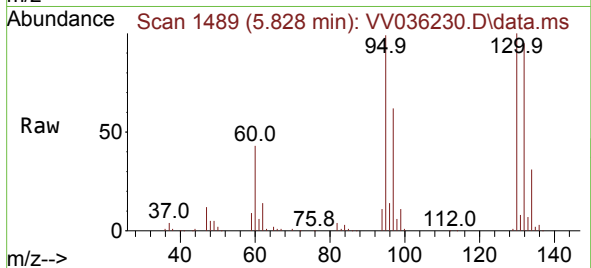
Ion Ratio Lower Upper

95 100

97 62.7 44.8 83.2

132 95.9 66.8 124.2

130 101.4 70.0 130.0



#35

Methylcyclohexane

Concen: 10.602 ug/L

RT: 6.046 min Scan# 1557

Delta R.T. 0.000 min

Lab File: VV036230.D

Acq: 22 Jun 2024 01:18

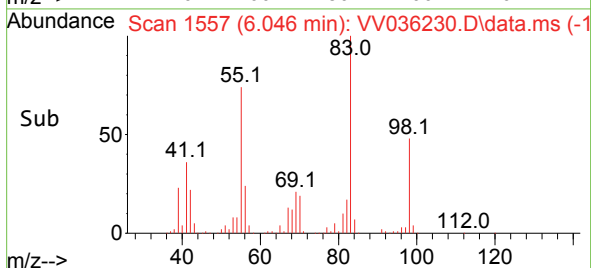
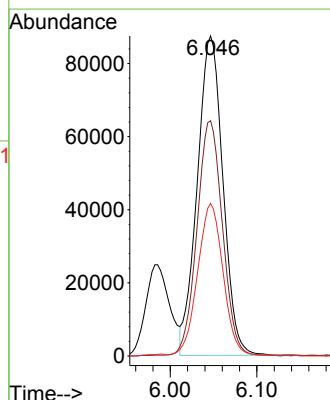
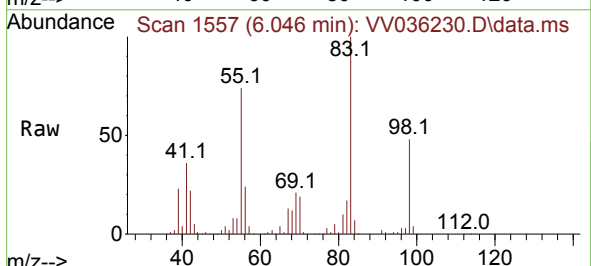
Tgt Ion: 83 Resp: 179655

Ion Ratio Lower Upper

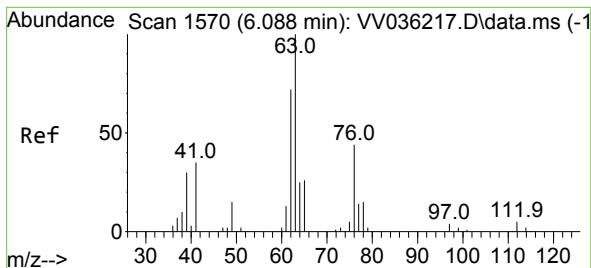
83 100

55 73.6 60.7 91.1

98 47.0 38.7 58.1







#37

1,2-Dichloropropane

Concen: 13.456 ug/L

RT: 6.088 min Scan# 1

Delta R.T. 0.000 min

Lab File: VV036230.D

Acq: 22 Jun 2024 01:18

Instrument :

MSVOA\_V

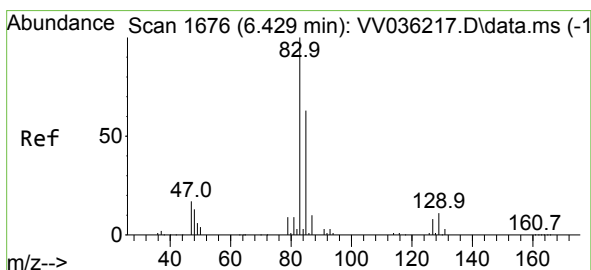
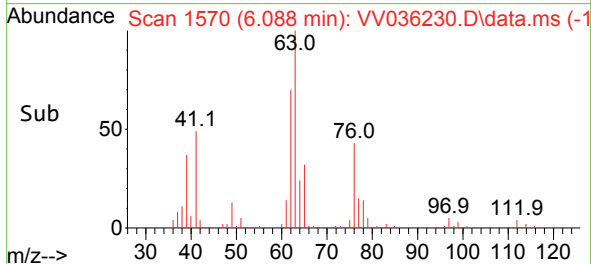
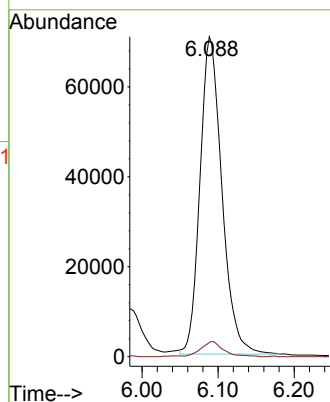
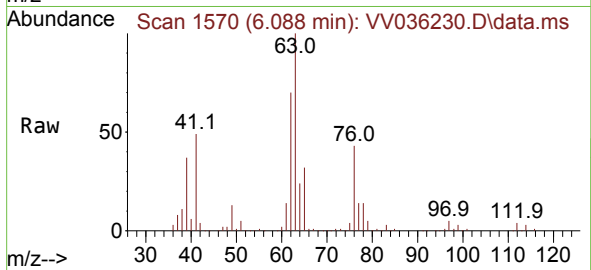
ClientSampleId :

Tgt Ion: 63 Resp: 141260

Ion Ratio Lower Upper

63 100

112 4.9 3.5 5.3



#38

Bromodichloromethane

Concen: 13.775 ug/L

RT: 6.429 min Scan# 1676

Delta R.T. 0.000 min

Lab File: VV036230.D

Acq: 22 Jun 2024 01:18

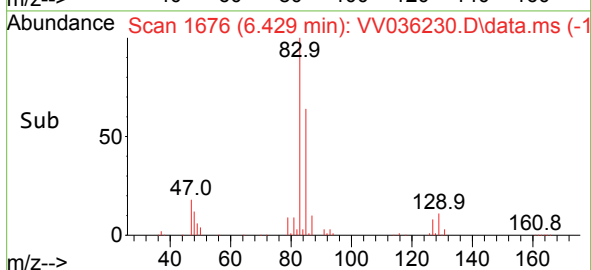
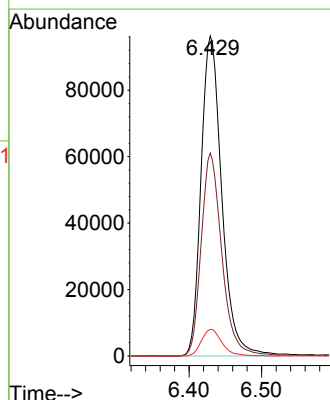
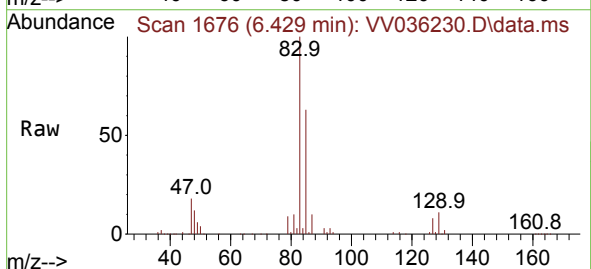
Tgt Ion: 83 Resp: 191409

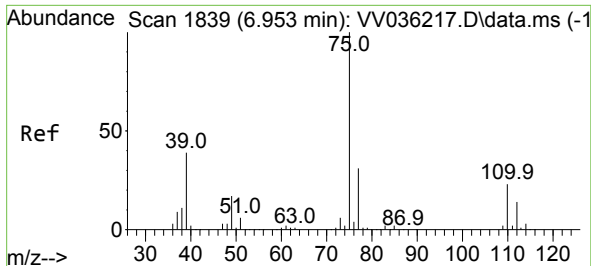
Ion Ratio Lower Upper

83 100

85 63.4 45.3 84.1

127 8.3 6.7 10.1





#39

cis-1,3-Dichloropropene

Concen: 12.534 ug/L

RT: 6.950 min Scan# 11

Delta R.T. -0.003 min

Lab File: VV036230.D

Acq: 22 Jun 2024 01:18

Instrument :

MSVOA\_V

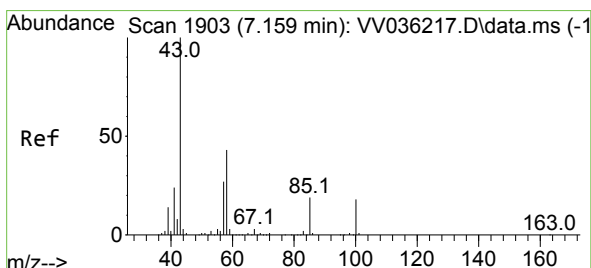
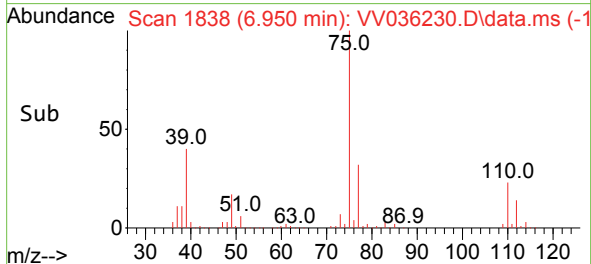
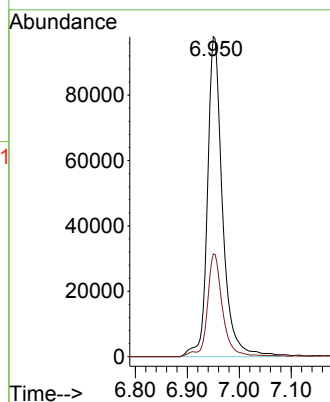
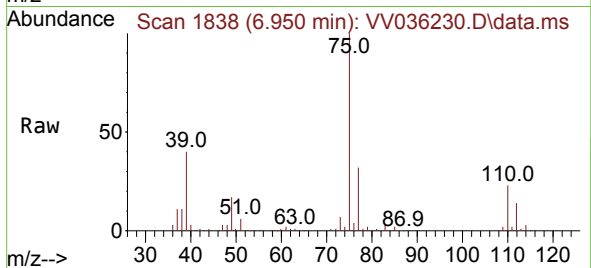
ClientSampleId :

Tgt Ion: 75 Resp: 196804

Ion Ratio Lower Upper

75 100

77 32.1 22.1 41.1



#40

4-Methyl-2-pentanone

Concen: 21.718 ug/L

RT: 7.159 min Scan# 1903

Delta R.T. 0.000 min

Lab File: VV036230.D

Acq: 22 Jun 2024 01:18

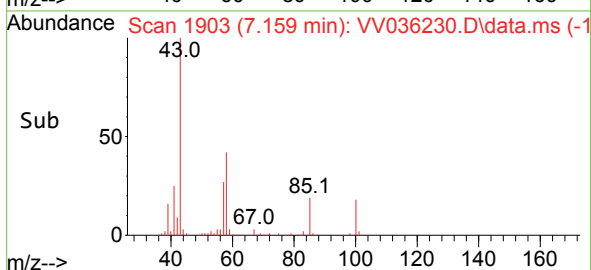
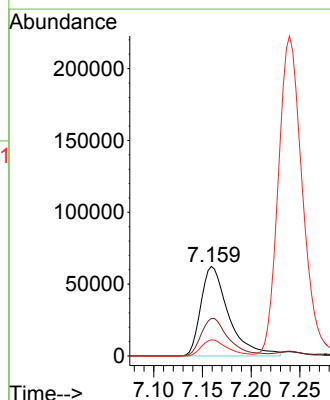
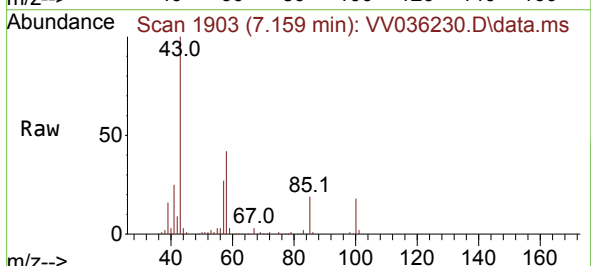
Tgt Ion: 43 Resp: 123876

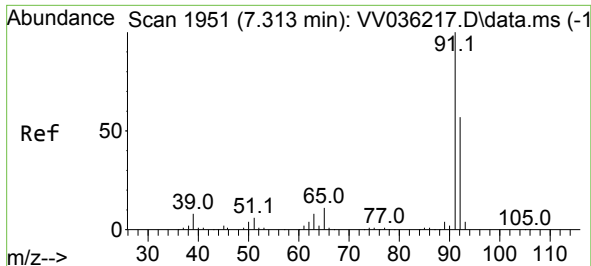
Ion Ratio Lower Upper

43 100

58 41.6 32.5 48.7

100 16.9 12.5 18.7





#42

Toluene

Concen: 14.355 ug/L

RT: 7.313 min Scan# 1951

Delta R.T. 0.000 min

Lab File: VV036230.D

Acq: 22 Jun 2024 01:18

Instrument :

MSVOA\_V

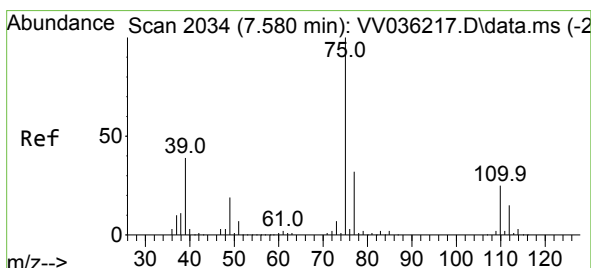
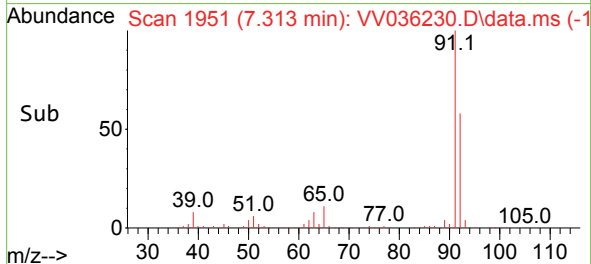
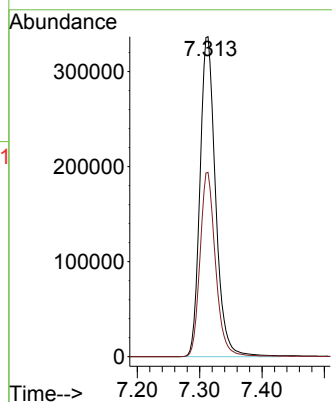
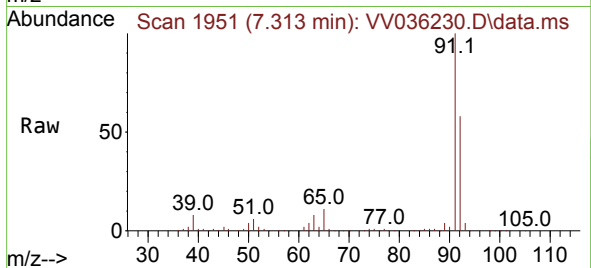
ClientSampleId :

Tgt Ion: 91 Resp: 586442

Ion Ratio Lower Upper

91 100

92 57.6 40.6 75.4



#44

trans-1,3-Dichloropropene

Concen: 12.531 ug/L

RT: 7.580 min Scan# 2034

Delta R.T. 0.000 min

Lab File: VV036230.D

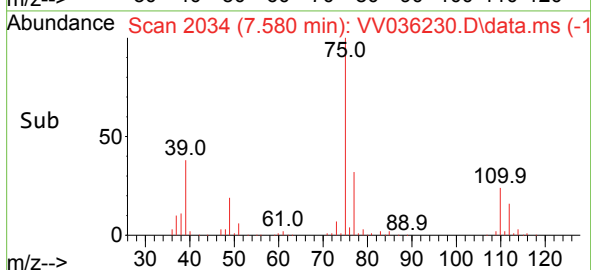
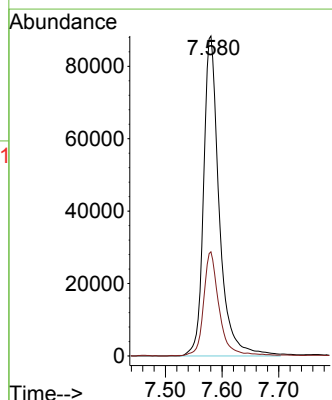
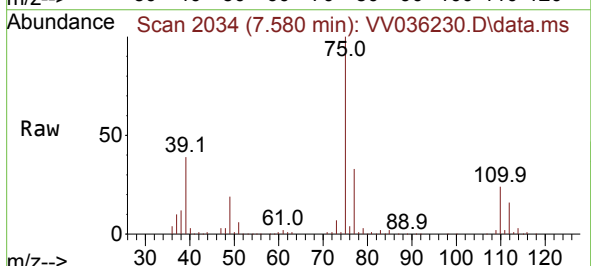
Acq: 22 Jun 2024 01:18

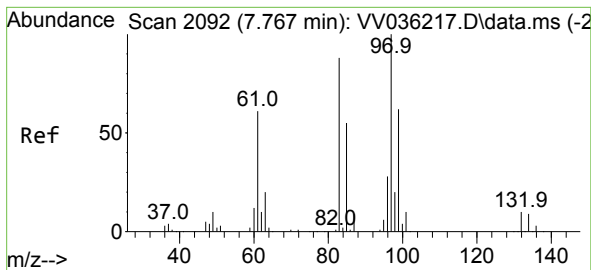
Tgt Ion: 75 Resp: 169961

Ion Ratio Lower Upper

75 100

77 32.5 23.1 42.9





#45

1,1,2-Trichloroethane

Concen: 12.946 ug/L

RT: 7.767 min Scan# 2092

Delta R.T. 0.000 min

Lab File: VV036230.D

Acq: 22 Jun 2024 01:18

Instrument :

MSVOA\_V

ClientSampleId :

Tgt Ion: 97 Resp: 112457

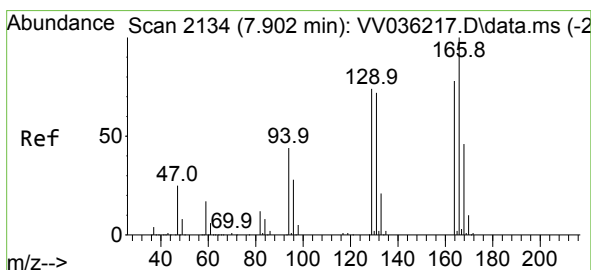
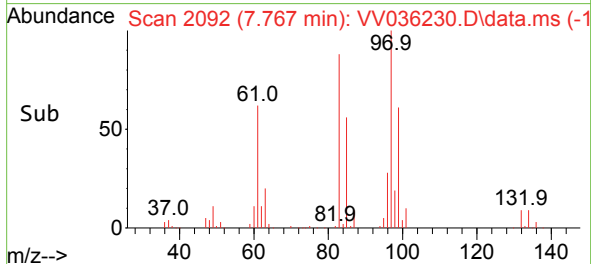
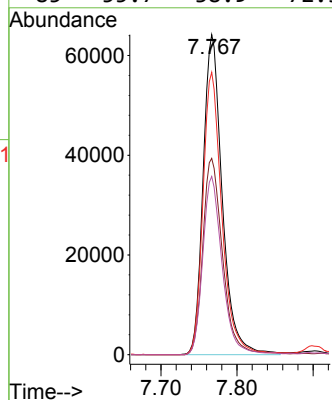
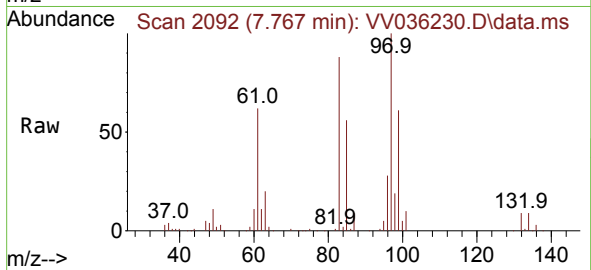
Ion Ratio Lower Upper

97 100

99 61.3 43.3 80.5

83 88.3 60.1 111.7

85 55.7 38.9 72.3



#46

Tetrachloroethene

Concen: 12.167 ug/L

RT: 7.902 min Scan# 2134

Delta R.T. 0.000 min

Lab File: VV036230.D

Acq: 22 Jun 2024 01:18

Tgt Ion: 164 Resp: 109042

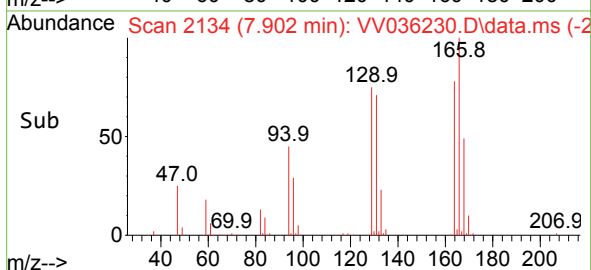
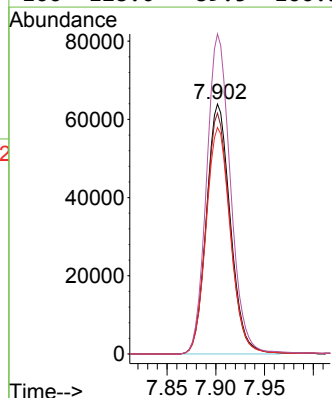
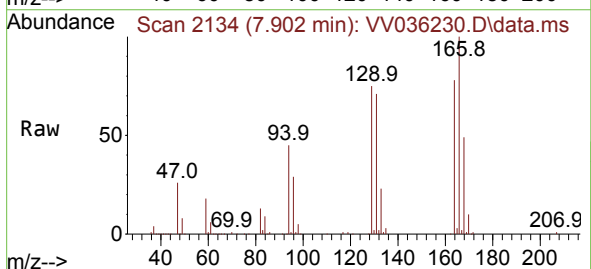
Ion Ratio Lower Upper

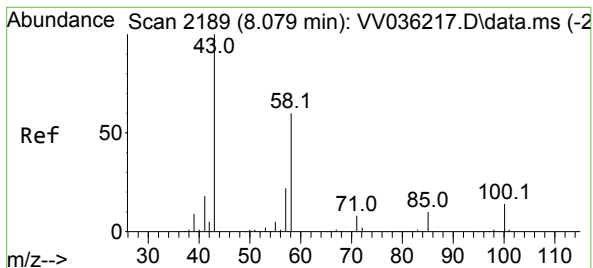
164 100

129 96.3 64.6 120.0

131 90.6 63.2 117.4

166 128.0 89.5 166.3





#48

2-Hexanone

Concen: 18.529 ug/L

RT: 8.082 min Scan# 2189

Delta R.T. 0.003 min

Lab File: VV036230.D

Acq: 22 Jun 2024 01:18

Instrument :

MSVOA\_V

ClientSampleId :

Tgt Ion: 43 Resp: 82624

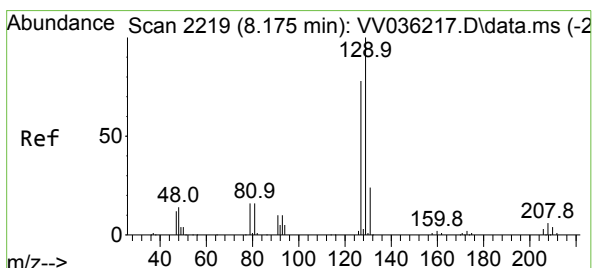
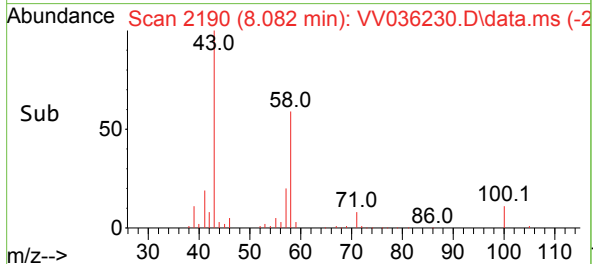
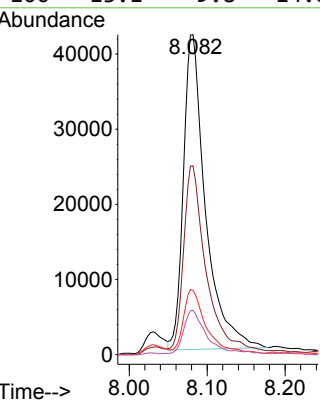
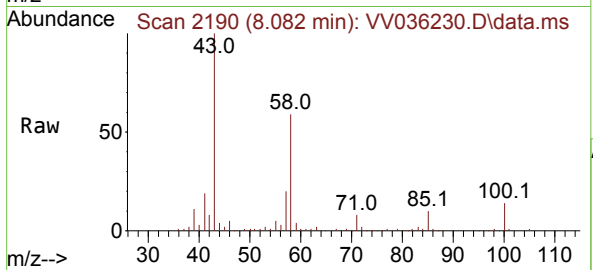
Ion Ratio Lower Upper

43 100

58 60.0 45.4 68.0

57 19.5 15.8 23.8

100 13.1 9.8 14.8



#49

Dibromochloromethane

Concen: 13.390 ug/L

RT: 8.175 min Scan# 2219

Delta R.T. 0.000 min

Lab File: VV036230.D

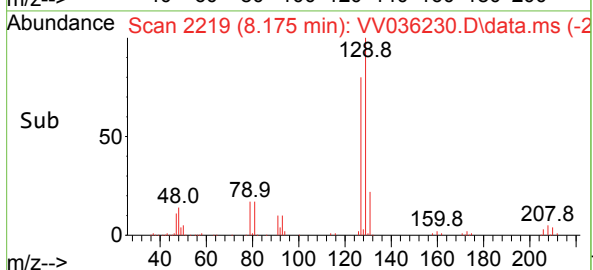
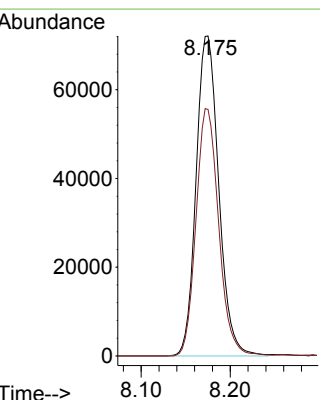
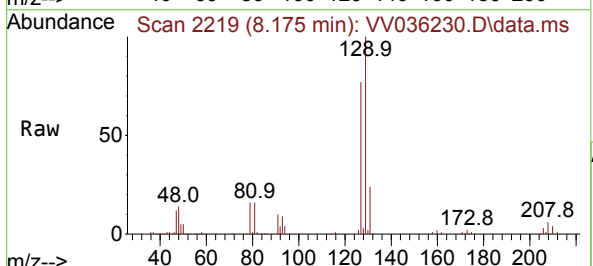
Acq: 22 Jun 2024 01:18

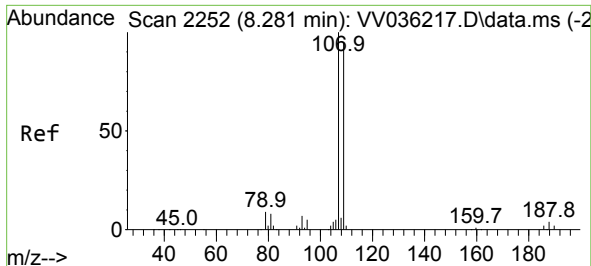
Tgt Ion: 129 Resp: 127300

Ion Ratio Lower Upper

129 100

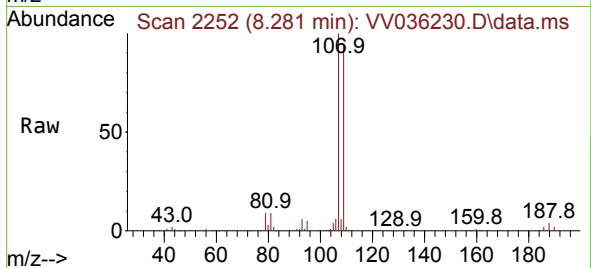
127 77.1 53.9 100.1



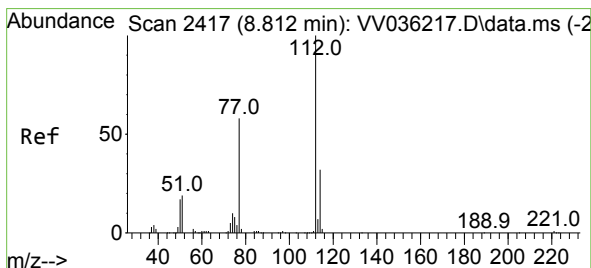
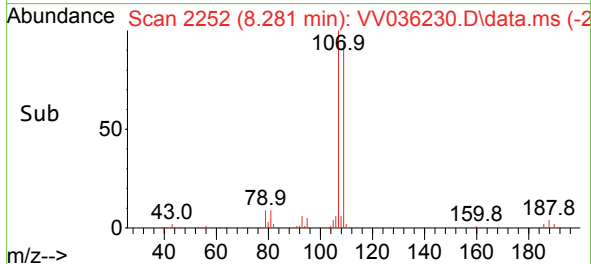
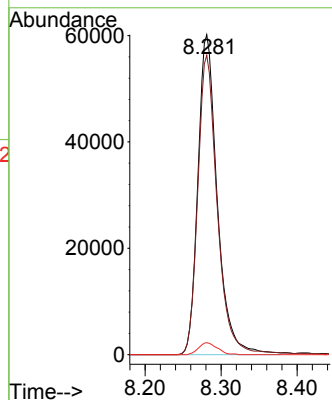


#50  
1,2-Dibromoethane  
Concen: 12.796 ug/L  
RT: 8.281 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VV036230.D  
Acq: 22 Jun 2024 01:18

Instrument :  
MSVOA\_V  
ClientSampleId :

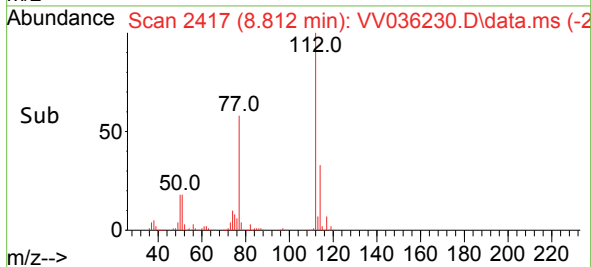
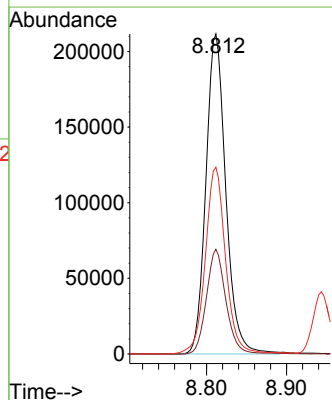
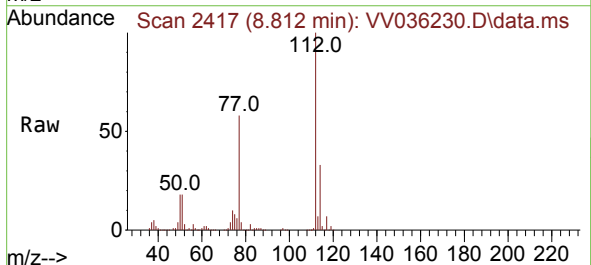


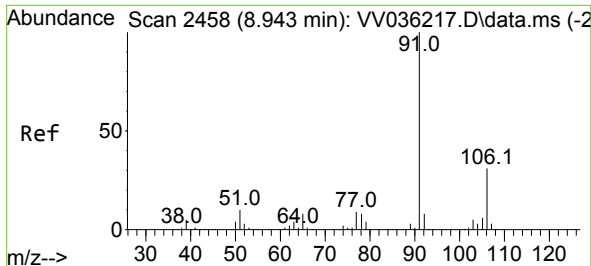
Tgt Ion:107 Resp: 106655  
Ion Ratio Lower Upper  
107 100  
109 93.6 66.1 122.7  
188 3.7 3.0 4.6



#51  
Chlorobenzene  
Concen: 13.149 ug/L  
RT: 8.812 min Scan# 2417  
Delta R.T. 0.000 min  
Lab File: VV036230.D  
Acq: 22 Jun 2024 01:18

Tgt Ion:112 Resp: 366018  
Ion Ratio Lower Upper  
112 100  
114 32.7 22.3 41.5  
77 58.4 47.3 70.9

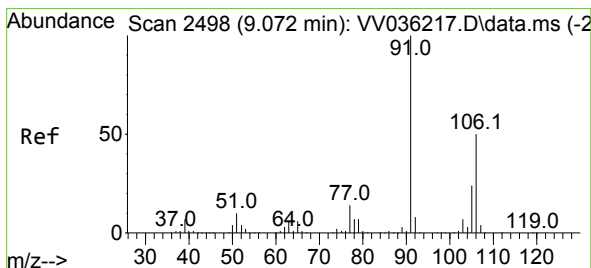
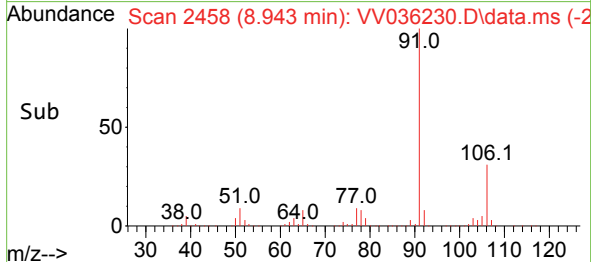
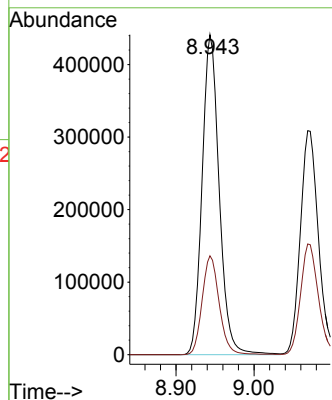
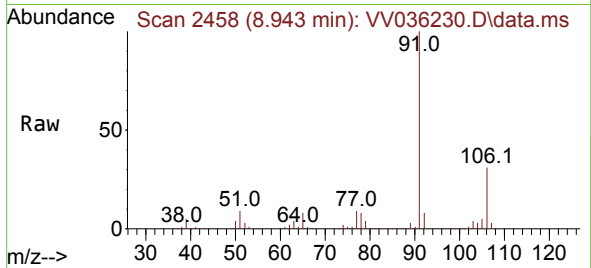




#52  
Ethylbenzene  
Concen: 15.364 ug/L  
RT: 8.943 min Scan# 2458  
Delta R.T. 0.000 min  
Lab File: VV036230.D  
Acq: 22 Jun 2024 01:18

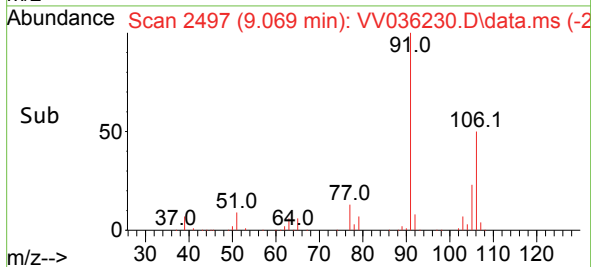
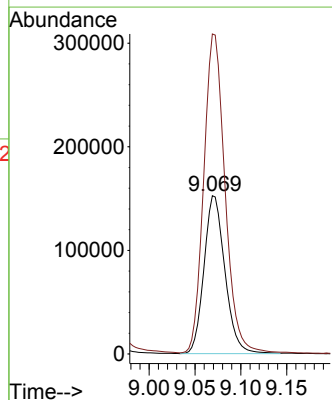
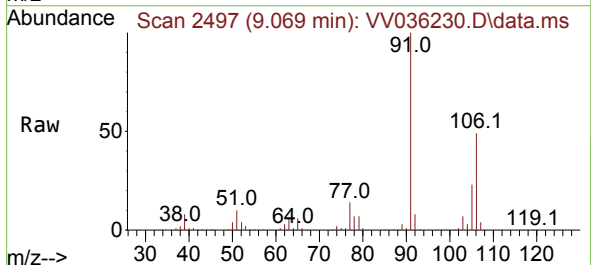
Instrument :  
MSVOA\_V  
ClientSampleId :

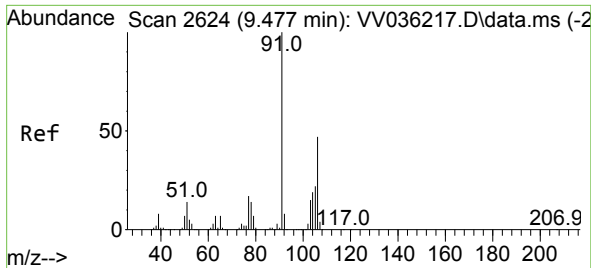
Tgt Ion: 91 Resp: 671561  
Ion Ratio Lower Upper  
91 100  
106 30.9 21.6 40.0



#53  
m,p-Xylene  
Concen: 14.747 ug/L  
RT: 9.069 min Scan# 2497  
Delta R.T. -0.003 min  
Lab File: VV036230.D  
Acq: 22 Jun 2024 01:18

Tgt Ion: 106 Resp: 242202  
Ion Ratio Lower Upper  
106 100  
91 202.2 143.1 265.9

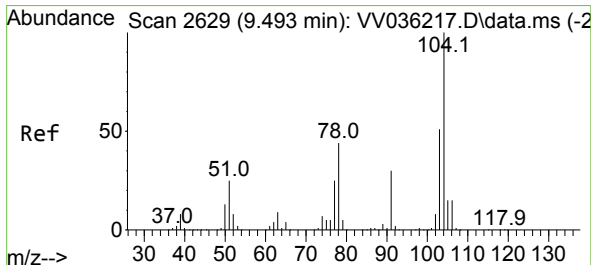
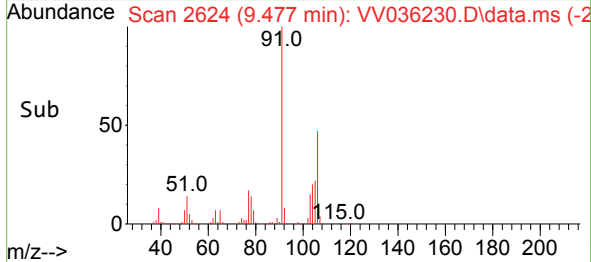
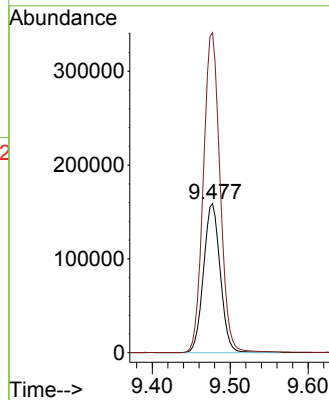
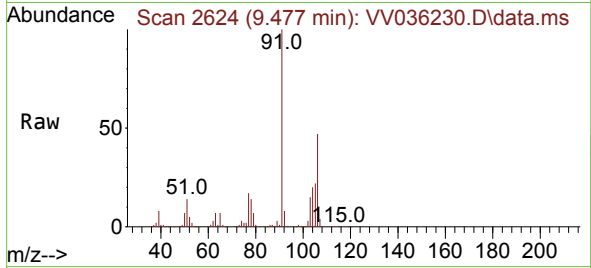




#54  
o-Xylene  
Concen: 15.321 ug/L  
RT: 9.477 min Scan# 2624  
Delta R.T. 0.000 min  
Lab File: VV036230.D  
Acq: 22 Jun 2024 01:18

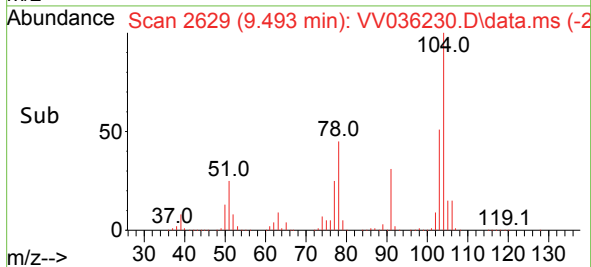
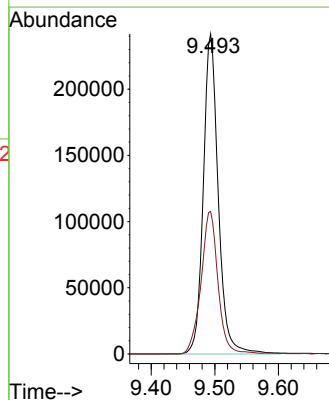
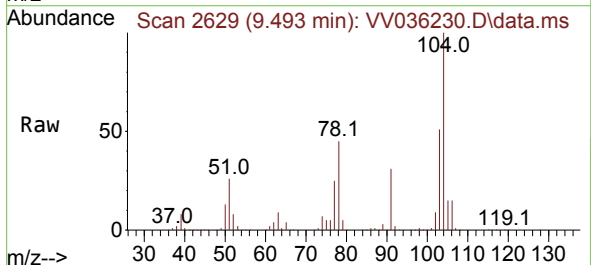
Instrument :  
MSVOA\_V  
ClientSampleId :

Tgt Ion:106 Resp: 237299  
Ion Ratio Lower Upper  
106 100  
91 214.5 154.5 286.9

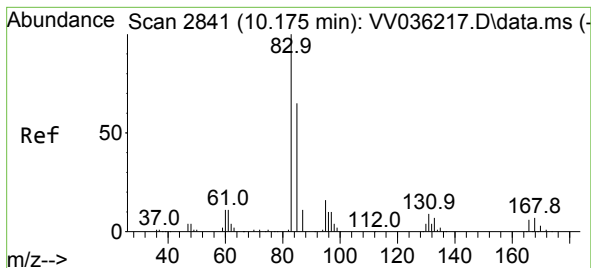


#55  
Styrene  
Concen: 14.455 ug/L  
RT: 9.493 min Scan# 2629  
Delta R.T. 0.000 min  
Lab File: VV036230.D  
Acq: 22 Jun 2024 01:18

Tgt Ion:104 Resp: 394800  
Ion Ratio Lower Upper  
104 100  
78 44.5 31.4 58.2

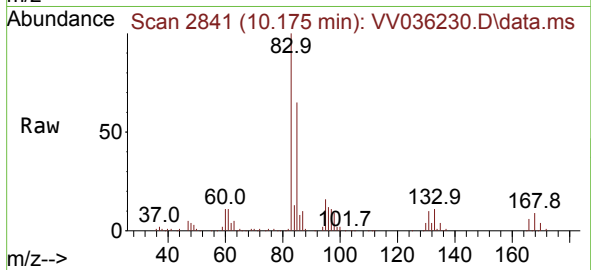




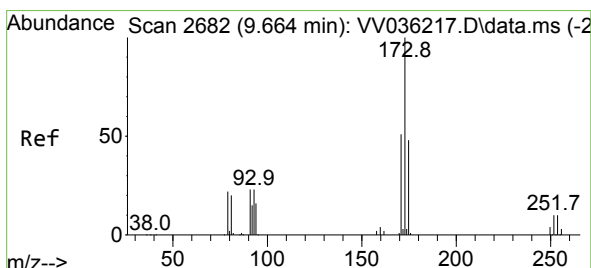
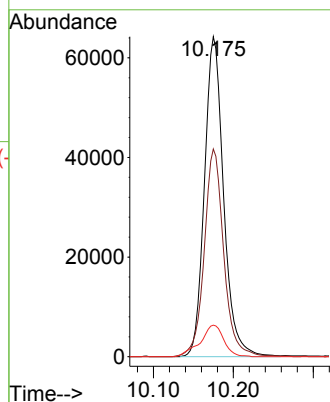
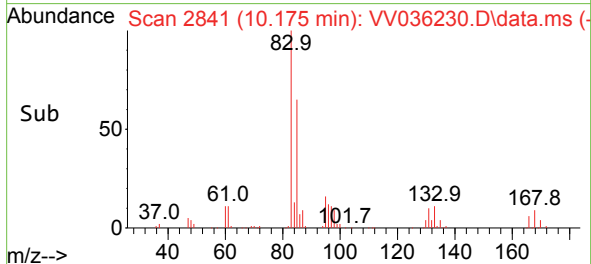


#57  
1,1,2,2-Tetrachloroethane  
Concen: 13.783 ug/L  
RT: 10.175 min Scan# 2841  
Delta R.T. 0.000 min  
Lab File: VV036230.D  
Acq: 22 Jun 2024 01:18

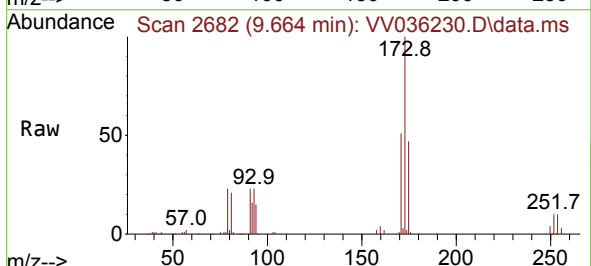
Instrument :  
MSVOA\_V  
ClientSampleId :



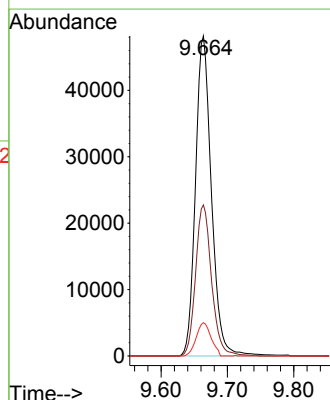
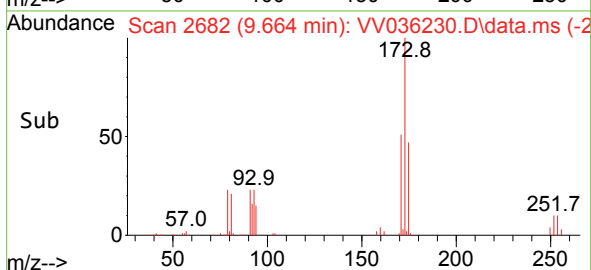
Tgt Ion: 83 Resp: 107203  
Ion Ratio Lower Upper  
83 100  
85 64.9 45.1 83.7  
131 9.8 7.6 11.4

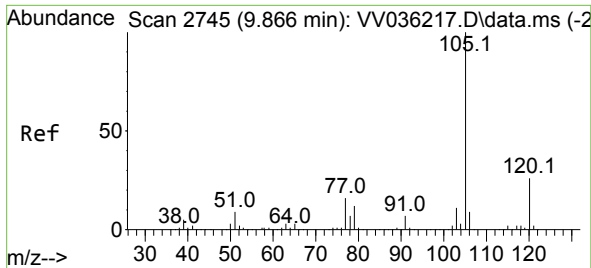


#59  
Bromoform  
Concen: 12.892 ug/L  
RT: 9.664 min Scan# 2682  
Delta R.T. 0.000 min  
Lab File: VV036230.D  
Acq: 22 Jun 2024 01:18



Tgt Ion: 173 Resp: 80356  
Ion Ratio Lower Upper  
173 100  
175 47.2 39.0 58.6  
254 9.7 8.6 13.0

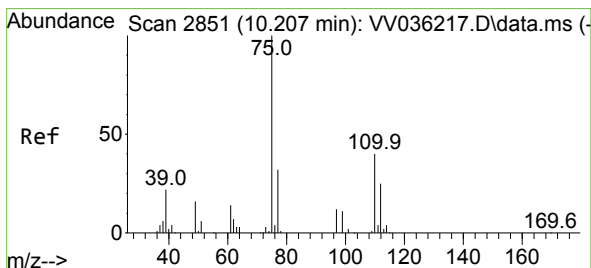
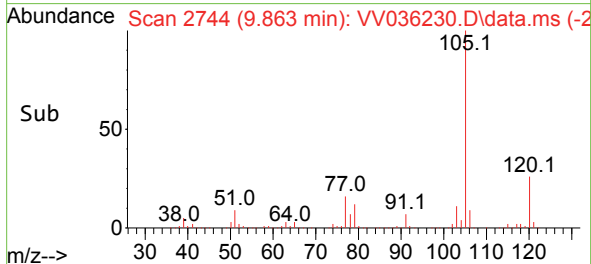
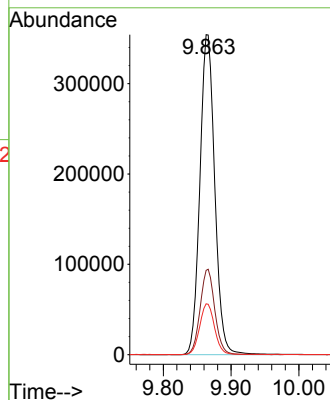
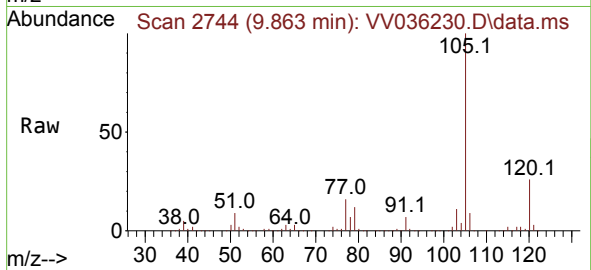




#60  
Isopropylbenzene  
Concen: 12.726 ug/L  
RT: 9.863 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: VV036230.D  
Acq: 22 Jun 2024 01:18

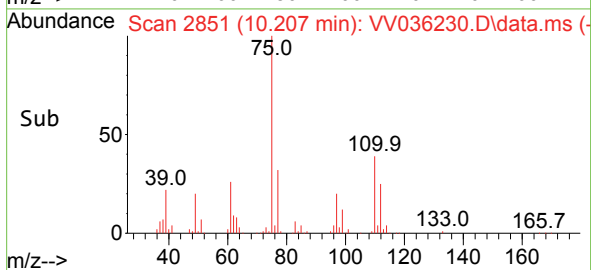
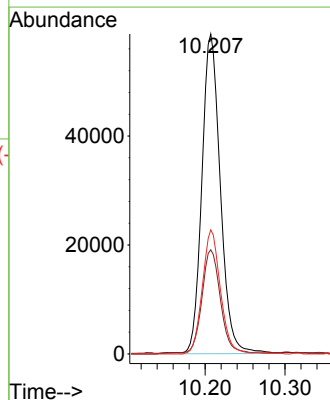
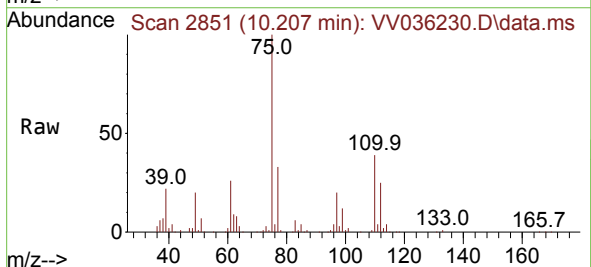
Instrument :  
MSVOA\_V  
ClientSampleId :

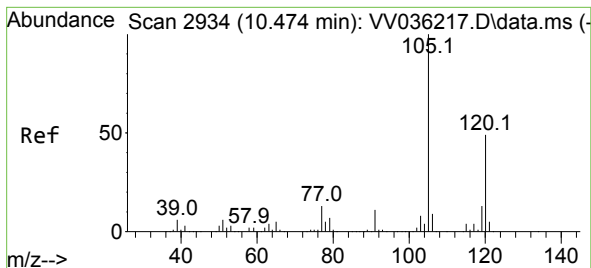
Tgt Ion:105 Resp: 539593  
Ion Ratio Lower Upper  
105 100  
120 26.3 21.0 31.6  
77 15.9 12.6 18.8



#61  
1,2,3-Trichloropropane  
Concen: 12.092 ug/L  
RT: 10.207 min Scan# 2851  
Delta R.T. 0.000 min  
Lab File: VV036230.D  
Acq: 22 Jun 2024 01:18

Tgt Ion: 75 Resp: 94515  
Ion Ratio Lower Upper  
75 100  
77 31.6 26.0 39.0  
110 37.9 32.2 48.4





#62

1,3,5-Trimethylbenzene

Concen: 13.031 ug/L

RT: 10.474 min Scan# 2934

Delta R.T. 0.000 min

Lab File: VV036230.D

Acq: 22 Jun 2024 01:18

Instrument :

MSVOA\_V

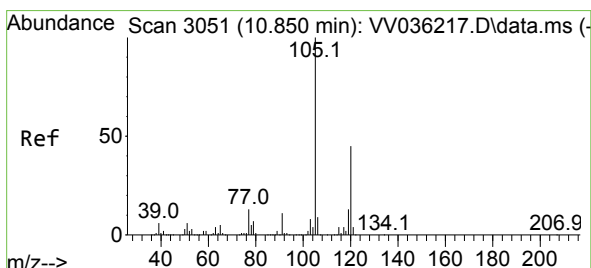
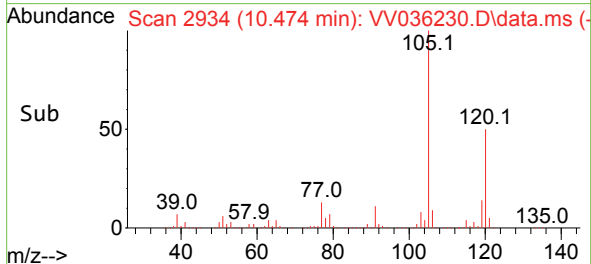
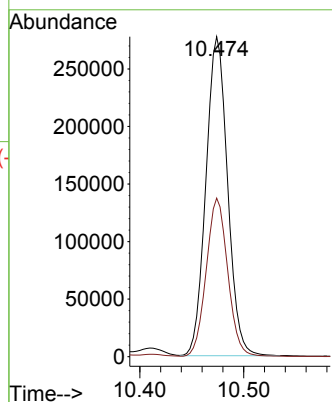
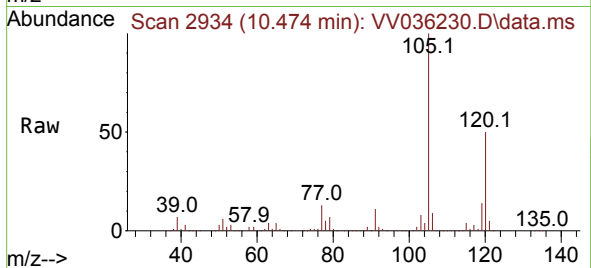
ClientSampleId :

Tgt Ion:105 Resp: 400664

Ion Ratio Lower Upper

105 100

120 49.4 38.6 58.0



#63

1,2,4-Trimethylbenzene

Concen: 14.618 ug/L

RT: 10.850 min Scan# 3051

Delta R.T. 0.000 min

Lab File: VV036230.D

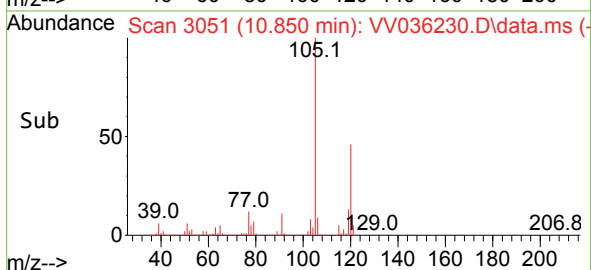
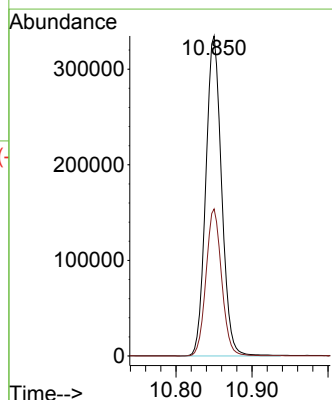
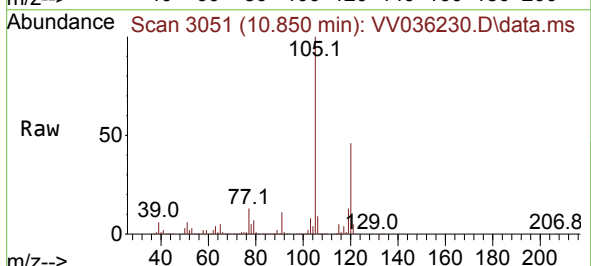
Acq: 22 Jun 2024 01:18

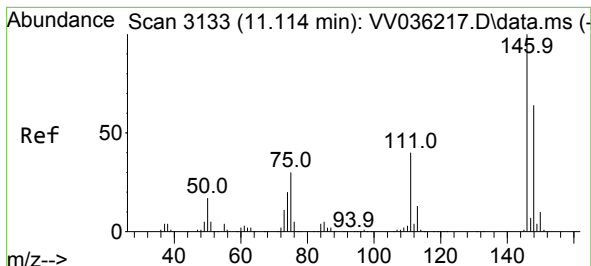
Tgt Ion:105 Resp: 484269

Ion Ratio Lower Upper

105 100

120 45.4 36.2 54.4





#64

1,3-Dichlorobenzene

Concen: 12.978 ug/L

RT: 11.114 min Scan# 3133

Delta R.T. 0.000 min

Lab File: VV036230.D

Acq: 22 Jun 2024 01:18

Instrument :

MSVOA\_V

ClientSampleId :

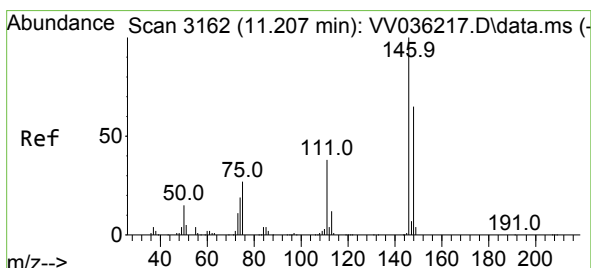
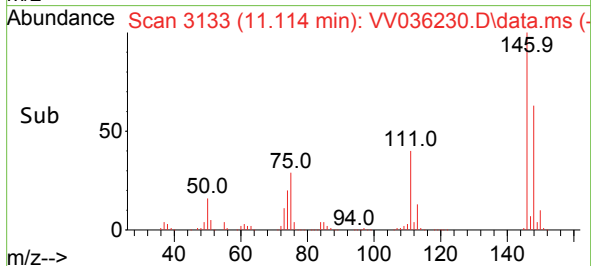
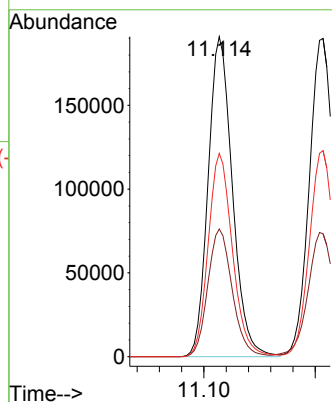
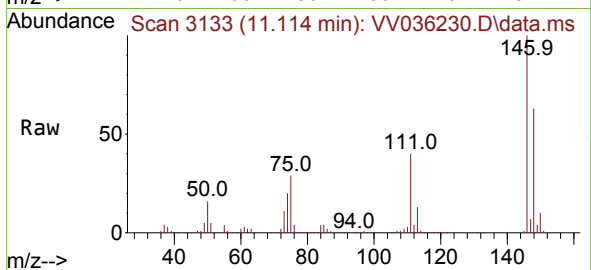
Tgt Ion:146 Resp: 288990

Ion Ratio Lower Upper

146 100

111 39.9 28.1 52.1

148 63.5 44.7 83.1



#65

1,4-Dichlorobenzene

Concen: 13.266 ug/L

RT: 11.207 min Scan# 3162

Delta R.T. 0.000 min

Lab File: VV036230.D

Acq: 22 Jun 2024 01:18

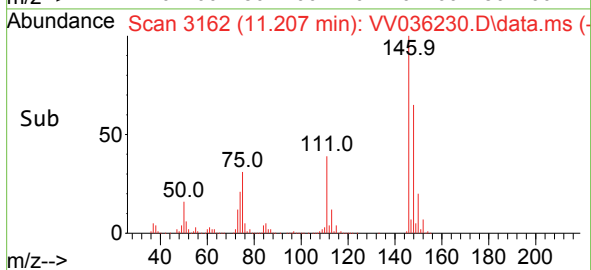
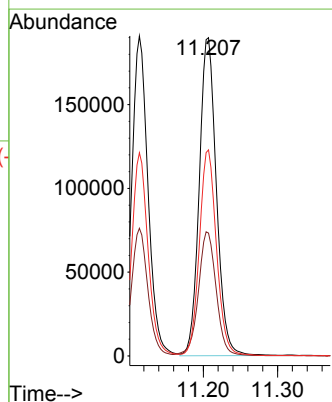
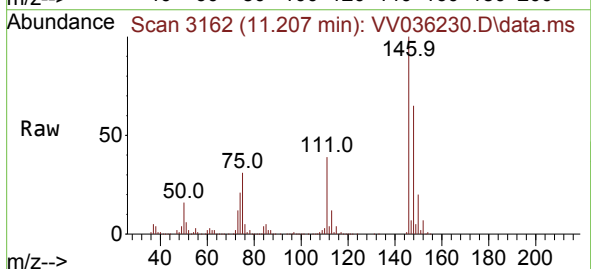
Tgt Ion:146 Resp: 304907

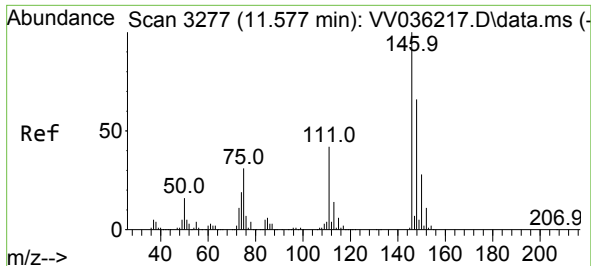
Ion Ratio Lower Upper

146 100

111 38.6 26.9 50.1

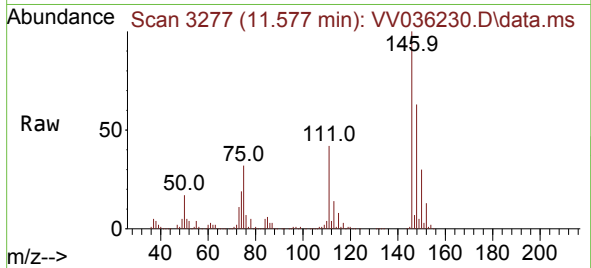
148 64.8 44.5 82.7



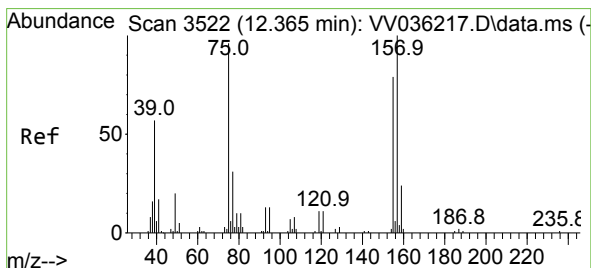
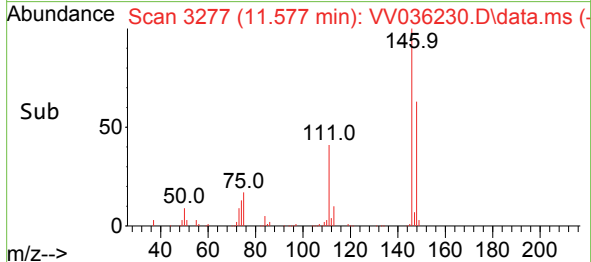
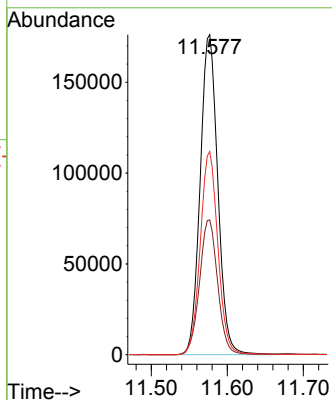


#67  
1,2-Dichlorobenzene  
Concen: 13.541 ug/L  
RT: 11.577 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: VV036230.D  
Acq: 22 Jun 2024 01:18

Instrument :  
MSVOA\_V  
ClientSampleId :

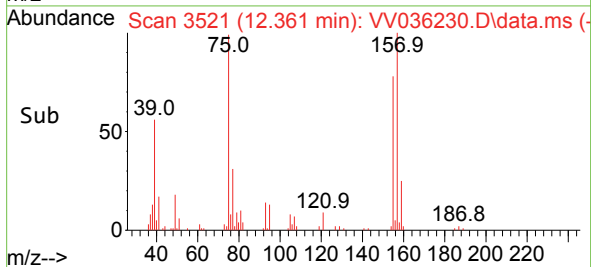
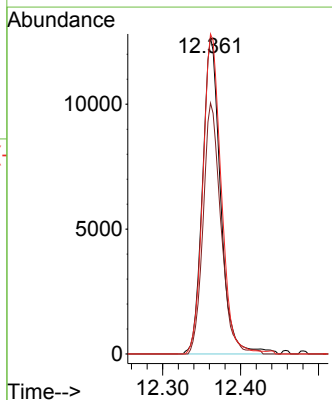
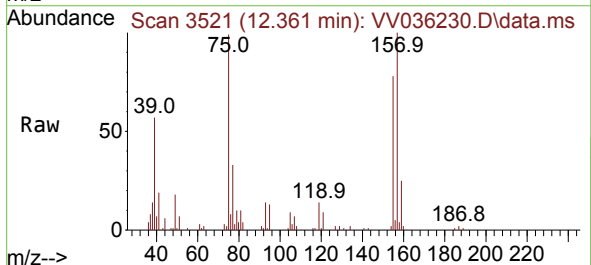


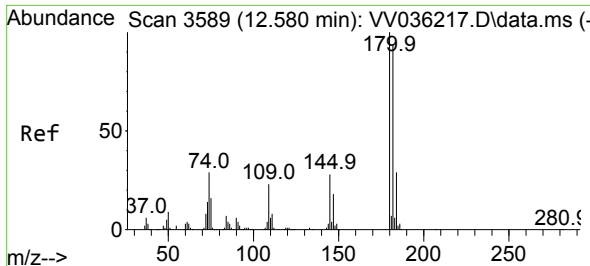
Tgt Ion:146 Resp: 283733  
Ion Ratio Lower Upper  
146 100  
111 42.1 33.5 50.3  
148 63.5 50.9 76.3



#68  
1,2-Dibromo-3-chloropropane  
Concen: 11.672 ug/L  
RT: 12.361 min Scan# 3521  
Delta R.T. -0.003 min  
Lab File: VV036230.D  
Acq: 22 Jun 2024 01:18

Tgt Ion: 75 Resp: 20402  
Ion Ratio Lower Upper  
75 100  
155 79.3 63.3 94.9  
157 101.2 82.4 123.6





#69

1,3,5-Trichlorobenzene

Concen: 11.794 ug/L

RT: 12.580 min Scan# 3

Delta R.T. 0.000 min

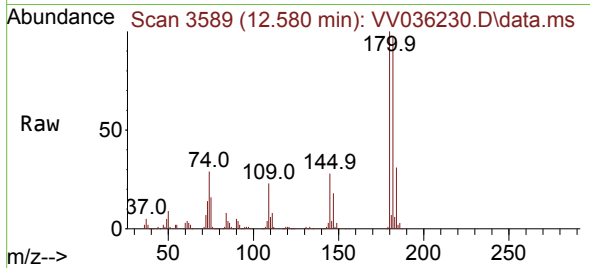
Lab File: VV036230.D

Acq: 22 Jun 2024 01:18

Instrument :

MSVOA\_V

ClientSampleId :



Tgt Ion:180 Resp: 196441

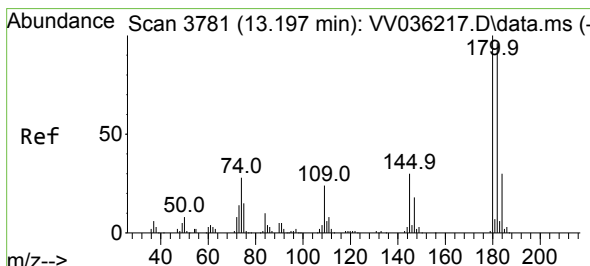
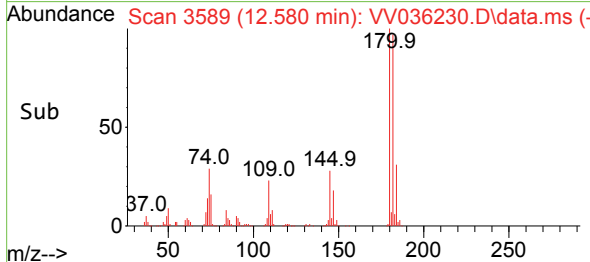
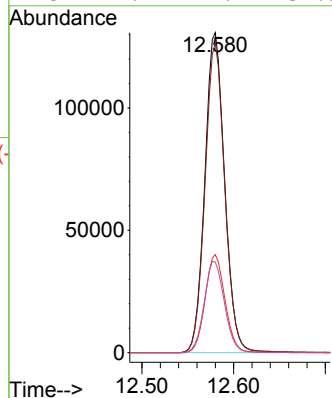
Ion Ratio Lower Upper

180 100

182 96.4 76.2 114.4

184 30.6 24.2 36.2

145 29.2 22.9 34.3



#70

1,2,4-trichlorobenzene

Concen: 11.797 ug/L

RT: 13.194 min Scan# 3780

Delta R.T. -0.003 min

Lab File: VV036230.D

Acq: 22 Jun 2024 01:18

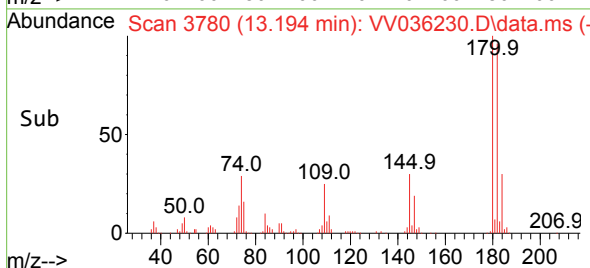
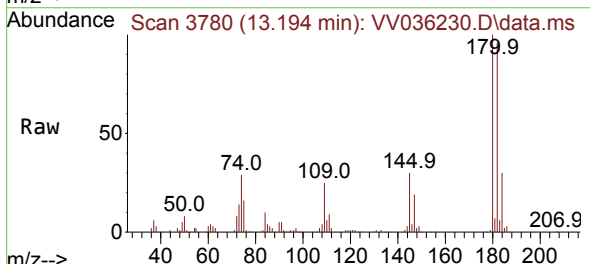
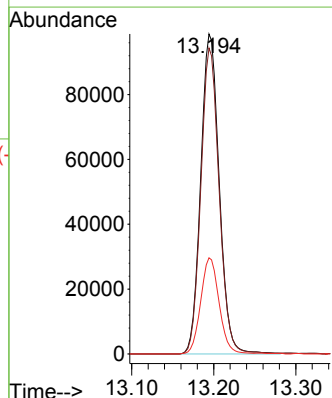
Tgt Ion:180 Resp: 154721

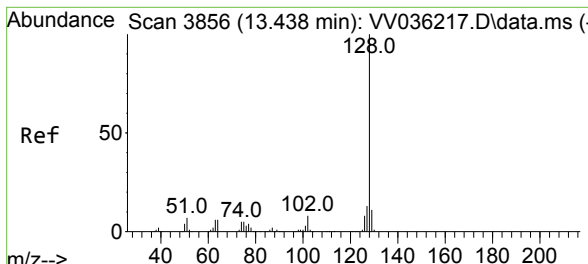
Ion Ratio Lower Upper

180 100

182 94.5 76.1 114.1

145 29.8 23.5 35.3

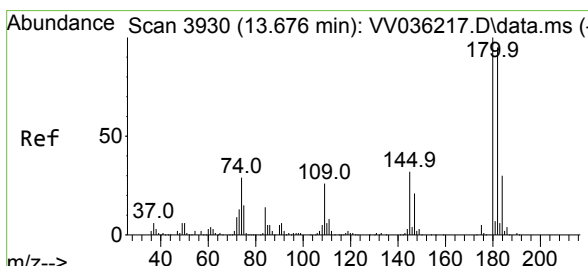
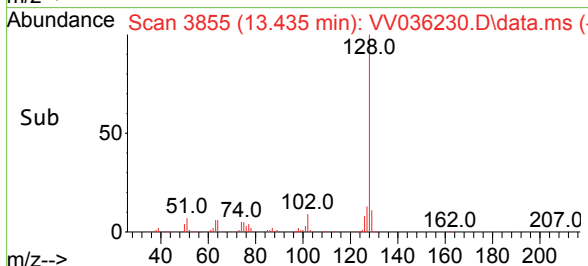
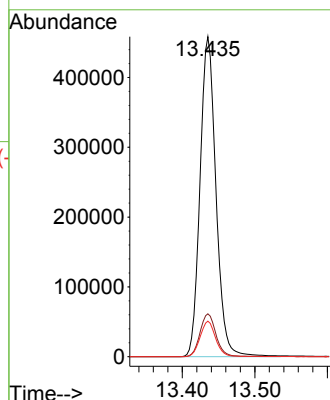
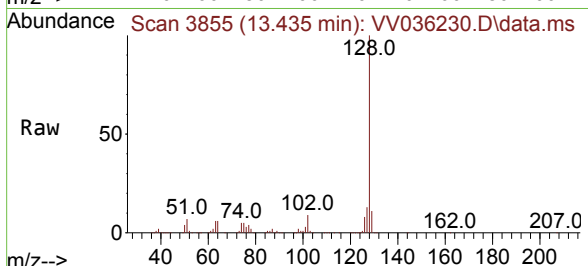




#71  
Naphthalene  
Concen: 32.724 ug/L  
RT: 13.435 min Scan# 3856  
Delta R.T. -0.003 min  
Lab File: VV036230.D  
Acq: 22 Jun 2024 01:18

Instrument :  
MSVOA\_V  
ClientSampleId :

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 128   | Resp: | 700393 |
| Ion Ratio | Lower | Upper |        |
| 128       | 100   |       |        |
| 127       | 13.5  | 10.6  | 16.0   |
| 129       | 10.8  | 8.8   | 13.2   |



#72  
1,2,3-Trichlorobenzene  
Concen: 12.883 ug/L  
RT: 13.676 min Scan# 3930  
Delta R.T. 0.000 min  
Lab File: VV036230.D  
Acq: 22 Jun 2024 01:18

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 180   | Resp: | 154183 |
| Ion Ratio | Lower | Upper |        |
| 180       | 100   |       |        |
| 182       | 95.7  | 75.1  | 112.7  |
| 145       | 31.4  | 25.2  | 37.8   |

