

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV082124\  
 Data File : VV036993.D  
 Acq On : 21 Aug 2024 16:26  
 Operator : SY/MD  
 Sample : VSTD00557  
 Misc : 5.00mL/10mL/MSVOA\_V/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Aug 22 01:04:52 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM082124SMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Aug 22 00:59:57 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Difluorobenzene        | 5.526  | 114  | 659665   | 25.000 | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.780  | 117  | 607980   | 25.000 | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.178 | 152  | 283460   | 25.000 | ug/L   | 0.00     |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 4) Vinyl Chloride-d3          | 1.278  | 65   | 59895    | 5.585  | ug/L   | 0.00     |
| 7) Chloroethane-d5            | 1.532  | 69   | 48979    | 5.591  | ug/L   | 0.00     |
| 11) 1,1-Dichloroethene-d2     | 2.056  | 65   | 27106    | 5.730  | ug/L   | 0.00     |
| 21) 2-Butanone-d5             | 3.850  | 46   | 5735     | 3.557  | ug/L   | 0.00     |
| 24) Chloroform-d              | 4.239  | 84   | 105229   | 5.373  | ug/L   | 0.00     |
| 26) 1,2-Dichloroethane-d4     | 4.937  | 65   | 45237    | 5.062  | ug/L   | 0.00     |
| 32) Benzene-d6                | 4.953  | 84   | 205392   | 5.352  | ug/L   | 0.00     |
| 36) 1,2-Dichloropropane-d6    | 5.985  | 67   | 56934    | 5.005  | ug/L   | 0.00     |
| 41) Toluene-d8                | 7.239  | 98   | 188801   | 5.422  | ug/L   | 0.00     |
| 43) trans-1,3-Dichloroprop... | 7.558  | 79   | 19356    | 4.803  | ug/L   | 0.00     |
| 47) 2-Hexanone-d5             | 8.056  | 63   | 7607     | 7.799  | ug/L   | 0.02     |
| 56) 1,1,2,2-Tetrachloroeth... | 10.149 | 84   | 30304    | 4.786  | ug/L   | 0.00     |
| 66) 1,2-Dichlorobenzene-d4    | 11.558 | 152  | 55910    | 5.301  | ug/L   | 0.00     |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        |        | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.108  | 85   | 60786    | 6.076  | ug/L   | 98       |
| 3) Chloromethane              | 1.217  | 50   | 66908    | 5.529  | ug/L   | 98       |
| 5) Vinyl chloride             | 1.281  | 62   | 64661    | 5.539  | ug/L   | 100      |
| 6) Bromomethane               | 1.487  | 94   | 38919    | 5.144  | ug/L   | 100      |
| 8) Chloroethane               | 1.548  | 64   | 39030    | 5.254  | ug/L   | 98       |
| 9) Trichlorofluoromethane     | 1.712  | 101  | 83447    | 5.595  | ug/L   | 98       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.066  | 101  | 50630    | 5.502  | ug/L   | 97       |
| 12) 1,1-Dichloroethene        | 2.069  | 96   | 48475    | 5.487  | ug/L   | 89       |
| 13) Acetone                   | 2.246  | 43   | 231      | 0.080  | ug/L   | 94       |
| 14) Carbon disulfide          | 2.236  | 76   | 157587   | 5.299  | ug/L   | 99       |
| 15) Methyl Acetate            | 2.381  | 43   | 14318    | 4.418  | ug/L   | 91       |
| 16) Methylene chloride        | 2.442  | 84   | 101633   | 7.018  | ug/L   | 99       |
| 17) trans-1,2-Dichloroethene  | 2.687  | 96   | 50751    | 5.129  | ug/L   | 99       |
| 18) Methyl tert-butyl Ether   | 2.706  | 73   | 93506    | 4.600  | ug/L   | 99       |
| 19) 1,1-Dichloroethane        | 3.104  | 63   | 98089    | 5.205  | ug/L   | 99       |
| 20) cis-1,2-Dichloroethene    | 3.805  | 96   | 53316    | 4.992  | ug/L   | 97       |
| 22) 2-Butanone                | 3.928  | 43   | 6361     | 2.999  | ug/L # | 100      |
| 23) Bromochloromethane        | 4.143  | 128  | 20241    | 4.809  | ug/L   | 96       |
| 25) Chloroform                | 4.268  | 83   | 95268    | 5.050  | ug/L   | 99       |
| 27) 1,2-Dichloroethane        | 5.040  | 62   | 50690    | 4.918  | ug/L   | 97       |
| 29) Cyclohexane               | 4.564  | 56   | 79416    | 5.226  | ug/L   | 98       |
| 30) 1,1,1-Trichloroethane     | 4.503  | 97   | 79246    | 5.268  | ug/L   | 100      |
| 31) Carbon tetrachloride      | 4.722  | 117  | 66984    | 5.366  | ug/L   | 98       |
| 33) Benzene                   | 5.002  | 78   | 196996   | 5.041  | ug/L   | 100      |
| 34) Trichloroethene           | 5.828  | 95   | 55947    | 5.041  | ug/L   | 97       |
| 35) Methylcyclohexane         | 6.040  | 83   | 89817    | 5.460  | ug/L   | 98       |
| 37) 1,2-Dichloropropane       | 6.092  | 63   | 47500    | 4.918  | ug/L # | 98       |
| 38) Bromodichloromethane      | 6.429  | 83   | 56731    | 4.703  | ug/L   | 95       |
| 39) cis-1,3-Dichloropropene   | 6.953  | 75   | 63680    | 4.405  | ug/L   | 98       |
| 40) 4-Methyl-2-pentanone      | 7.169  | 43   | 34837    | 8.728  | ug/L   | 98       |
| 42) Toluene                   | 7.310  | 91   | 204518   | 4.946  | ug/L   | 100      |
| 44) trans-1,3-Dichloropropene | 7.583  | 75   | 46550    | 4.247  | ug/L   | 99       |

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 Operator : SY/MD  
 Sample : VSTD00557  
 Misc : 5.00mL/10mL/MSVOA\_V/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

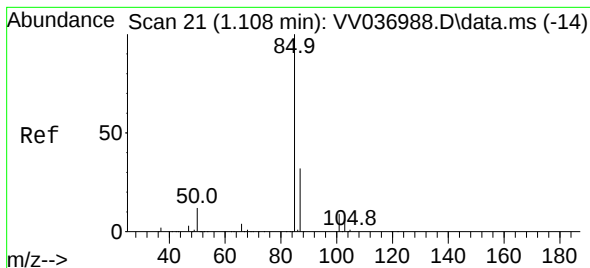
Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Aug 22 01:04:52 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM082124SMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Aug 22 00:59:57 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| -----                         |        |      |          |       |        |          |
| 45) 1,1,2-Trichloroethane     | 7.767  | 97   | 28612    | 4.575 | ug/L   | 96       |
| 46) Tetrachloroethene         | 7.899  | 164  | 41916    | 5.409 | ug/L   | 99       |
| 48) 2-Hexanone                | 8.095  | 43   | 21457    | 7.132 | ug/L   | 94       |
| 49) Dibromochloromethane      | 8.175  | 129  | 29838    | 4.292 | ug/L   | 98       |
| 50) 1,2-Dibromoethane         | 8.284  | 107  | 25634    | 4.437 | ug/L   | 99       |
| 51) Chlorobenzene             | 8.808  | 112  | 131363   | 4.975 | ug/L   | 99       |
| 52) Ethylbenzene              | 8.940  | 91   | 233668   | 5.002 | ug/L   | 99       |
| 53) m,p-Xylene                | 9.069  | 106  | 87567    | 5.069 | ug/L   | 98       |
| 54) o-Xylene                  | 9.474  | 106  | 80584    | 4.843 | ug/L   | 99       |
| 55) Styrene                   | 9.493  | 104  | 128941   | 4.642 | ug/L   | 97       |
| 57) 1,1,2,2-Tetrachloroethane | 10.175 | 83   | 24885    | 4.169 | ug/L   | 96       |
| 59) Bromoform                 | 9.664  | 173  | 13733    | 4.137 | ug/L # | 97       |
| 60) Isopropylbenzene          | 9.863  | 105  | 225439   | 5.173 | ug/L   | 100      |
| 61) 1,2,3-Trichloropropane    | 10.207 | 75   | 21902    | 4.818 | ug/L   | 98       |
| 62) 1,3,5-Trimethylbenzene    | 10.471 | 105  | 181359   | 5.021 | ug/L   | 100      |
| 63) 1,2,4-Trimethylbenzene    | 10.847 | 105  | 178853   | 4.997 | ug/L   | 100      |
| 64) 1,3-Dichlorobenzene       | 11.114 | 146  | 98094    | 5.053 | ug/L   | 98       |
| 65) 1,4-Dichlorobenzene       | 11.204 | 146  | 99158    | 5.136 | ug/L   | 99       |
| 67) 1,2-Dichlorobenzene       | 11.574 | 146  | 82851    | 4.958 | ug/L   | 96       |
| 68) 1,2-Dibromo-3-chloropr... | 12.361 | 75   | 3757     | 4.058 | ug/L   | 93       |
| 69) 1,3,5-Trichlorobenzene    | 12.580 | 180  | 67388    | 4.994 | ug/L   | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.194 | 180  | 53926    | 4.999 | ug/L   | 99       |
| 71) Naphthalene               | 13.438 | 128  | 75516    | 4.459 | ug/L   | 99       |
| 72) 1,2,3-Trichlorobenzene    | 13.676 | 180  | 42678    | 4.713 | ug/L   | 99       |
| -----                         |        |      |          |       |        |          |

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

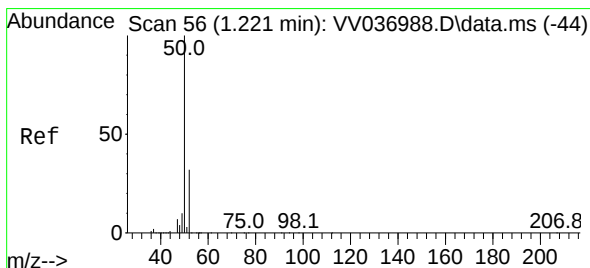
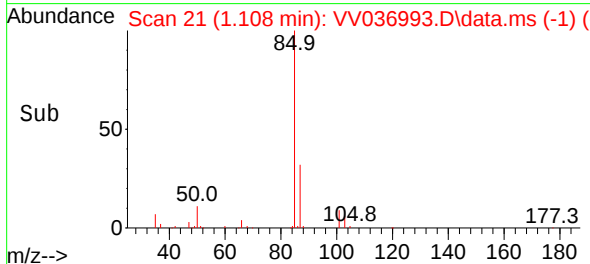
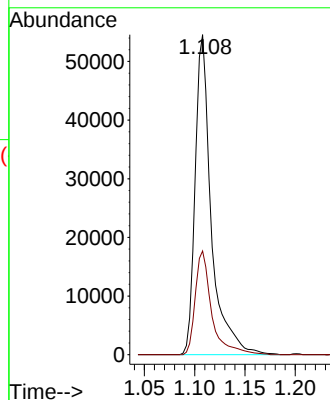
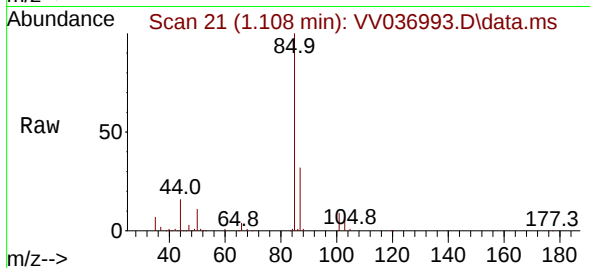




#2  
 Dichlorodifluoromethane  
 Concen: 6.076 ug/L  
 RT: 1.108 min Scan# 21  
 Delta R.T. -0.000 min  
 Lab File: VV036993.D  
 Acq: 21 Aug 2024 16:26

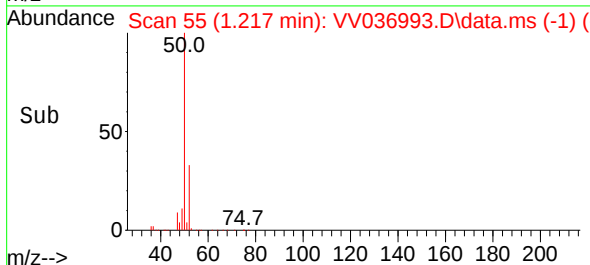
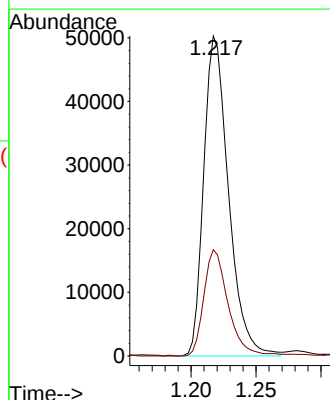
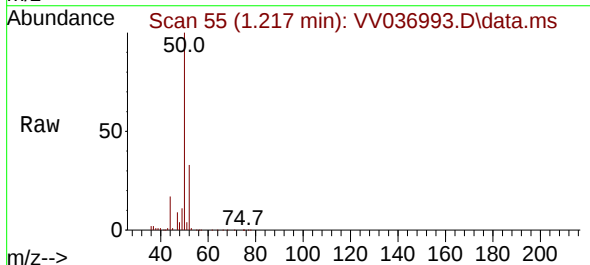
Instrument :  
 MSVOA\_V  
 ClientSampleId :

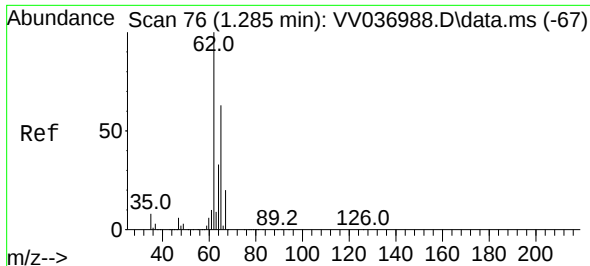
Tgt Ion: 85 Resp: 60786  
 Ion Ratio Lower Upper  
 85 100  
 87 33.1 25.7 38.5



#3  
 Chloromethane  
 Concen: 5.529 ug/L  
 RT: 1.217 min Scan# 55  
 Delta R.T. -0.003 min  
 Lab File: VV036993.D  
 Acq: 21 Aug 2024 16:26

Tgt Ion: 50 Resp: 66908  
 Ion Ratio Lower Upper  
 50 100  
 52 33.2 22.5 41.9

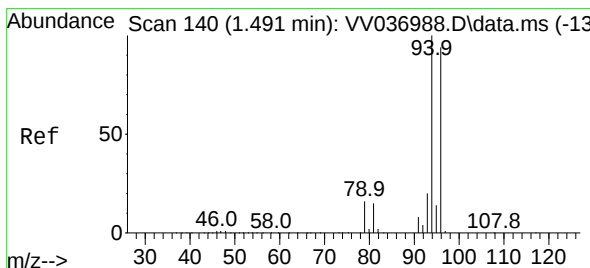
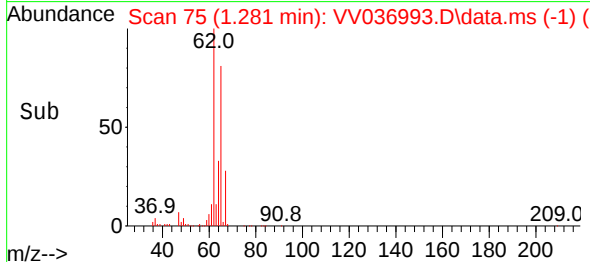
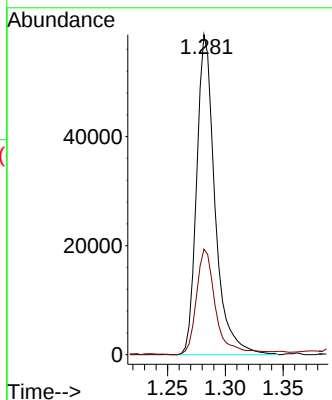
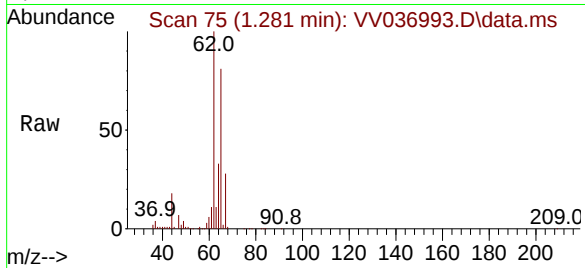




#5  
 Vinyl chloride  
 Concen: 5.539 ug/L  
 RT: 1.281 min Scan# 74  
 Delta R.T. -0.003 min  
 Lab File: VV036993.D  
 Acq: 21 Aug 2024 16:26

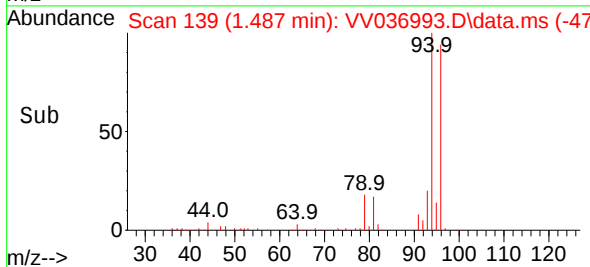
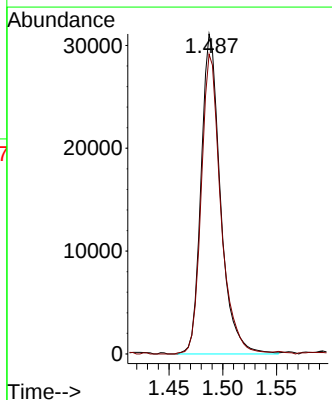
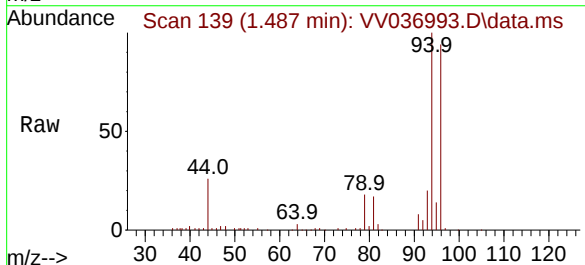
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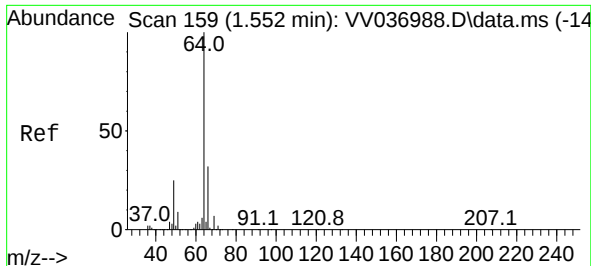
Tgt Ion: 62 Resp: 64661  
 Ion Ratio Lower Upper  
 62 100  
 64 32.9 23.1 42.9



#6  
 Bromomethane  
 Concen: 5.144 ug/L  
 RT: 1.487 min Scan# 139  
 Delta R.T. -0.003 min  
 Lab File: VV036993.D  
 Acq: 21 Aug 2024 16:26

Tgt Ion: 94 Resp: 38919  
 Ion Ratio Lower Upper  
 94 100  
 96 93.7 65.9 122.3

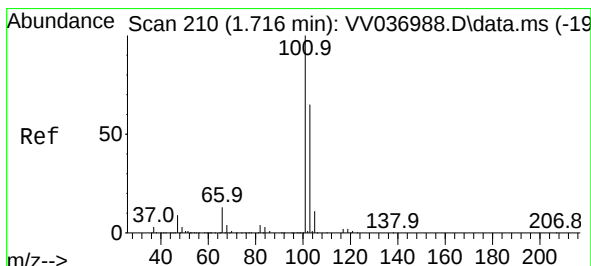
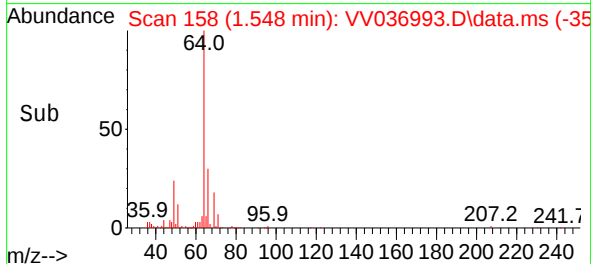
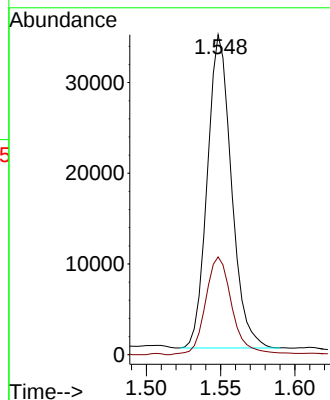
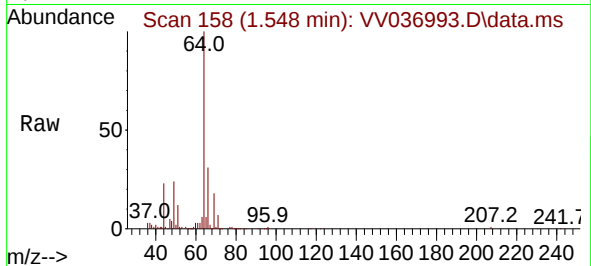




#8  
Chloroethane  
Concen: 5.254 ug/L  
RT: 1.548 min Scan# 11  
Delta R.T. -0.003 min  
Lab File: VV036993.D  
Acq: 21 Aug 2024 16:26

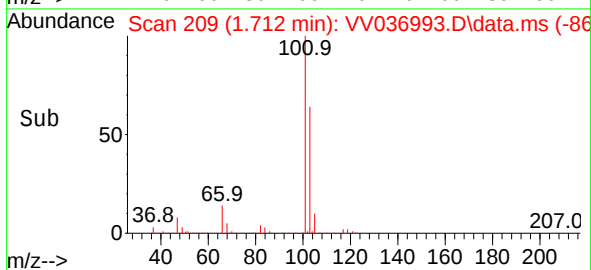
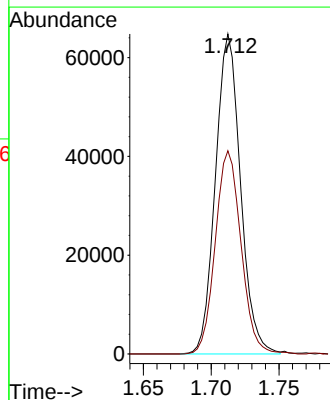
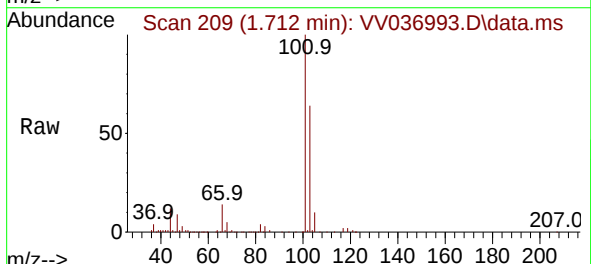
Instrument :  
MSVOA\_V  
ClientSampleId :

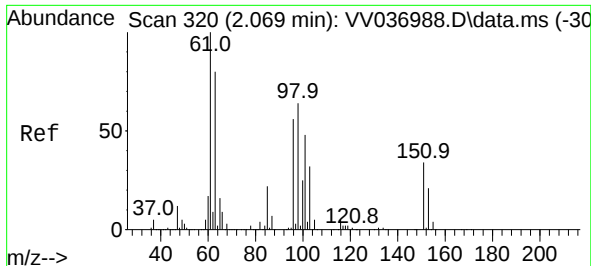
Tgt Ion: 64 Resp: 39030  
Ion Ratio Lower Upper  
64 100  
66 30.5 22.1 41.1



#9  
Trichlorofluoromethane  
Concen: 5.595 ug/L  
RT: 1.712 min Scan# 209  
Delta R.T. -0.003 min  
Lab File: VV036993.D  
Acq: 21 Aug 2024 16:26

Tgt Ion:101 Resp: 83447  
Ion Ratio Lower Upper  
101 100  
103 65.1 51.1 76.7





#10

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

Concen: 5.502 ug/L

RT: 2.066 min Scan# 319

Delta R.T. -0.003 min

Lab File: VV036993.D

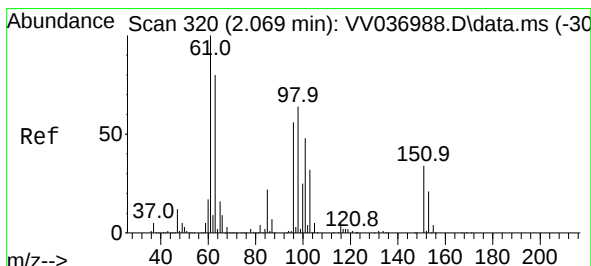
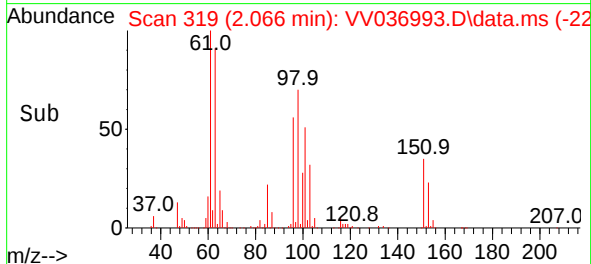
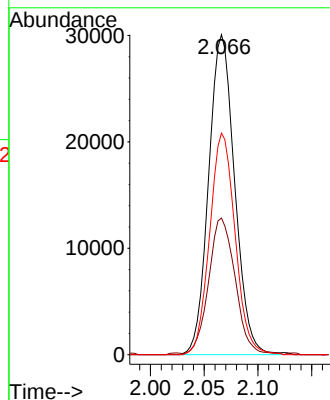
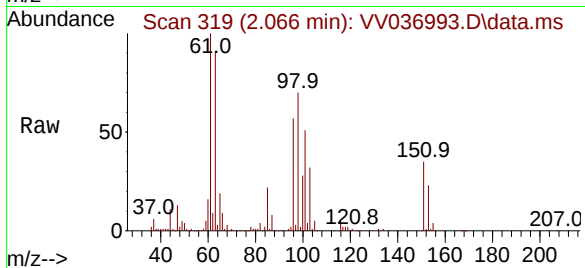
Acq: 21 Aug 2024 16:26

Instrument :

MSVOA\_V

ClientSampleId :

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 101   | Resp: | 50630 |
| Ion Ratio | Lower | Upper |       |
| 101       | 100   |       |       |
| 85        | 43.6  | 36.2  | 54.2  |
| 151       | 67.8  | 56.0  | 84.0  |



#12

1,1-Dichloroethene

Concen: 5.487 ug/L

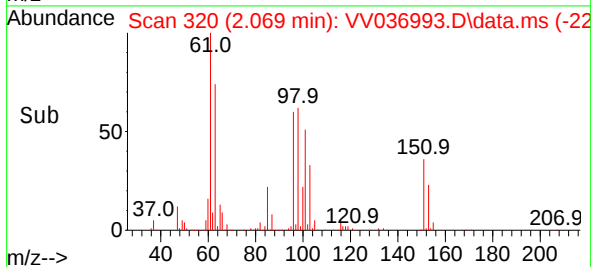
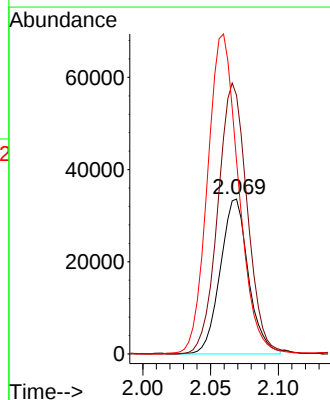
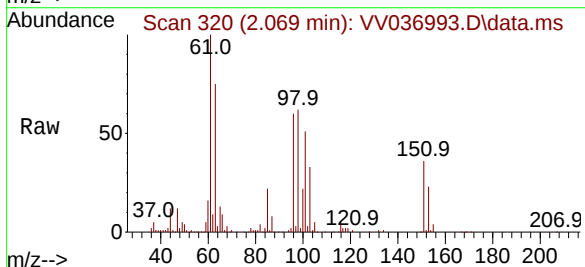
RT: 2.069 min Scan# 320

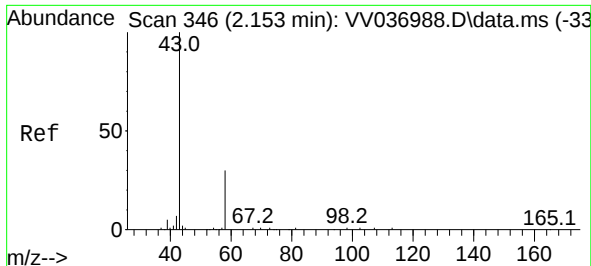
Delta R.T. -0.000 min

Lab File: VV036993.D

Acq: 21 Aug 2024 16:26

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 96    | Resp: | 48475 |
| Ion Ratio | Lower | Upper |       |
| 96        | 100   |       |       |
| 61        | 167.1 | 124.9 | 231.9 |
| 63        | 124.9 | 100.5 | 186.7 |

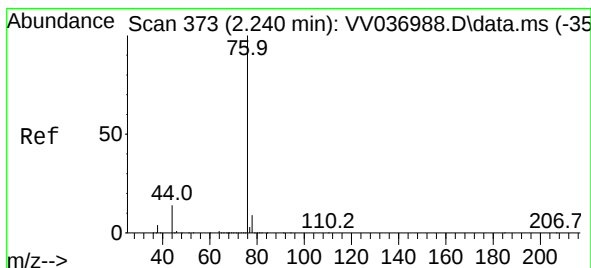
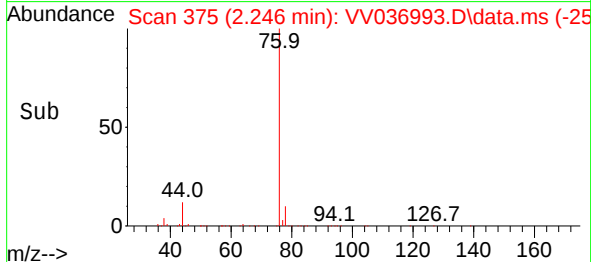
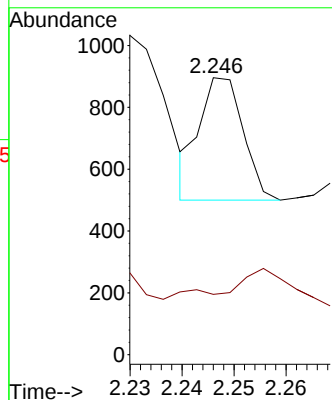
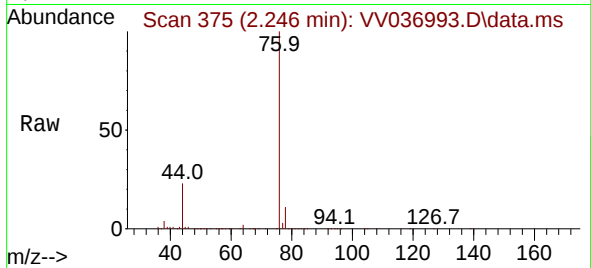




#13  
Acetone  
Concen: 0.080 ug/L  
RT: 2.246 min Scan# 31  
Delta R.T. 0.093 min  
Lab File: VV036993.D  
Acq: 21 Aug 2024 16:26

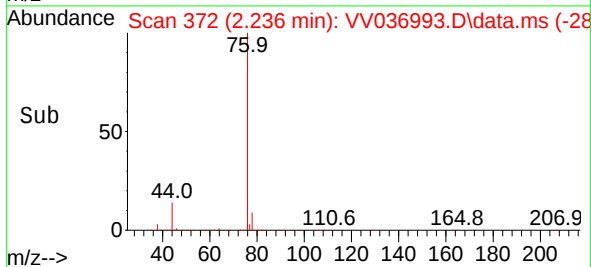
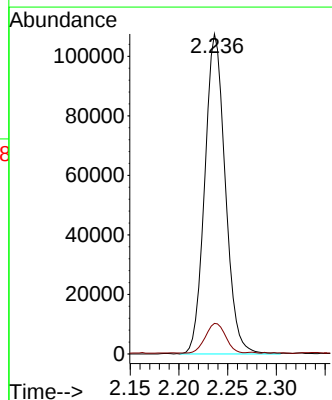
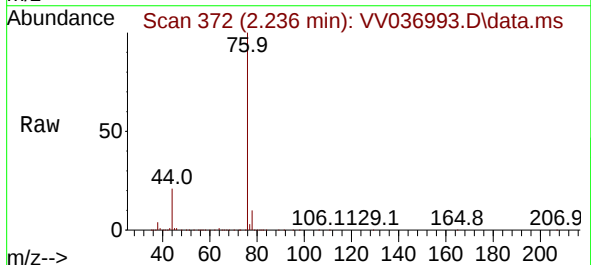
Instrument :  
MSVOA\_V  
ClientSampleId :

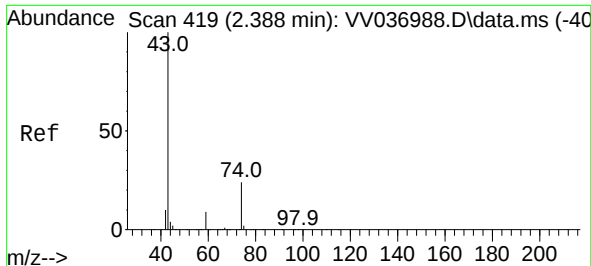
Tgt Ion: 43 Resp: 231  
Ion Ratio Lower Upper  
43 100  
58 7.4 0.0 18.8



#14  
Carbon disulfide  
Concen: 5.299 ug/L  
RT: 2.236 min Scan# 372  
Delta R.T. -0.003 min  
Lab File: VV036993.D  
Acq: 21 Aug 2024 16:26

Tgt Ion: 76 Resp: 157587  
Ion Ratio Lower Upper  
76 100  
78 9.5 7.4 11.2

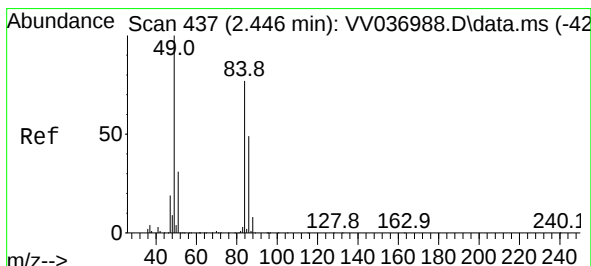
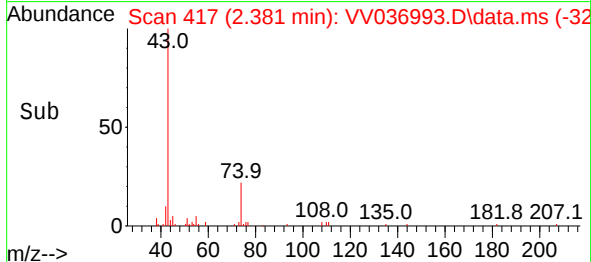
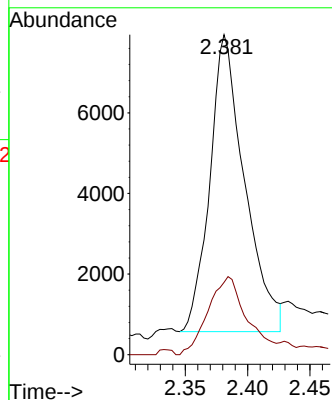
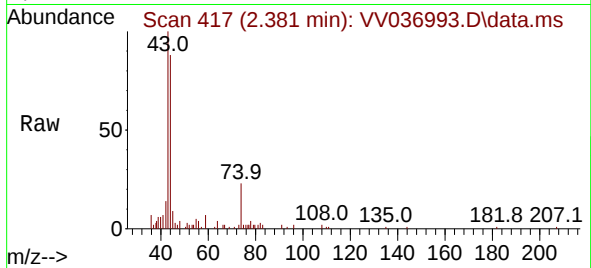




#15  
Methyl Acetate  
Concen: 4.418 ug/L  
RT: 2.381 min Scan# 419  
Delta R.T. -0.007 min  
Lab File: VV036993.D  
Acq: 21 Aug 2024 16:26

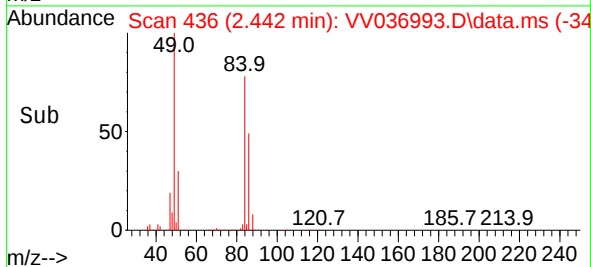
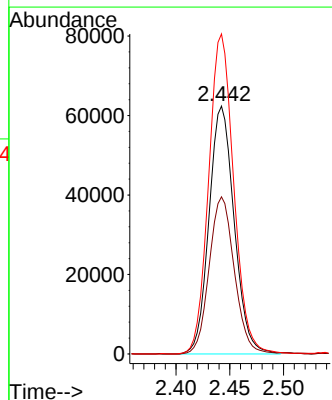
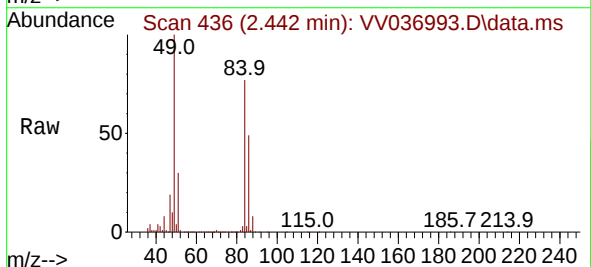
Instrument :  
MSVOA\_V  
ClientSampleId :

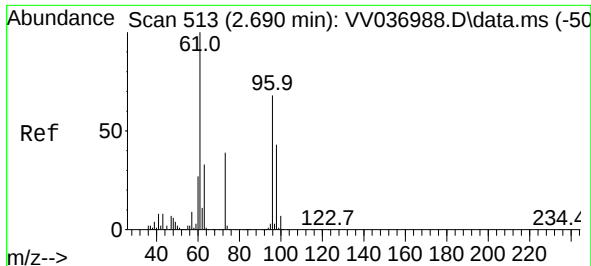
Tgt Ion: 43 Resp: 14318  
Ion Ratio Lower Upper  
43 100  
74 29.2 19.8 29.6



#16  
Methylene chloride  
Concen: 7.018 ug/L  
RT: 2.442 min Scan# 436  
Delta R.T. -0.003 min  
Lab File: VV036993.D  
Acq: 21 Aug 2024 16:26

Tgt Ion: 84 Resp: 101633  
Ion Ratio Lower Upper  
84 100  
86 63.4 44.2 82.0  
49 129.1 91.0 169.0

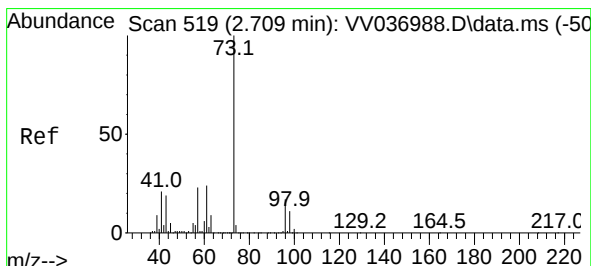
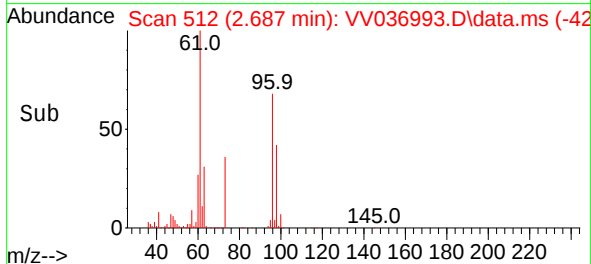
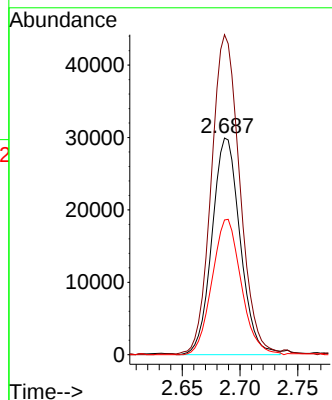
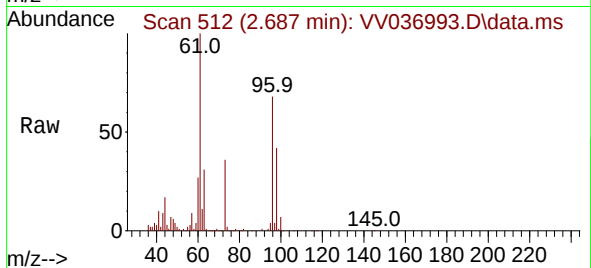




#17  
trans-1,2-Dichloroethene  
Concen: 5.129 ug/L  
RT: 2.687 min Scan# 513  
Delta R.T. -0.003 min  
Lab File: VV036993.D  
Acq: 21 Aug 2024 16:26

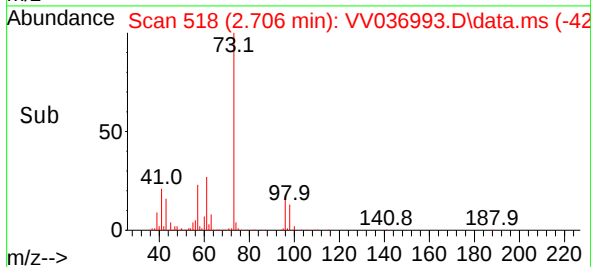
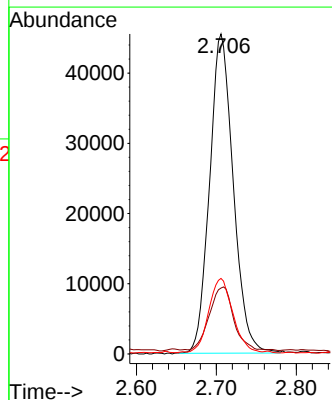
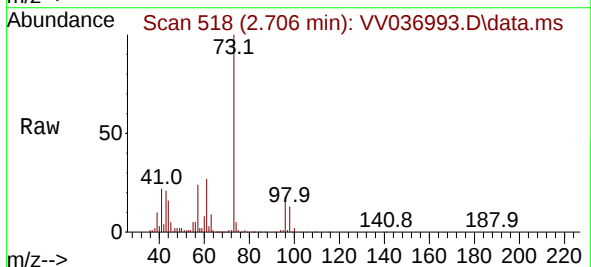
Instrument :  
MSVOA\_V  
ClientSampleId :

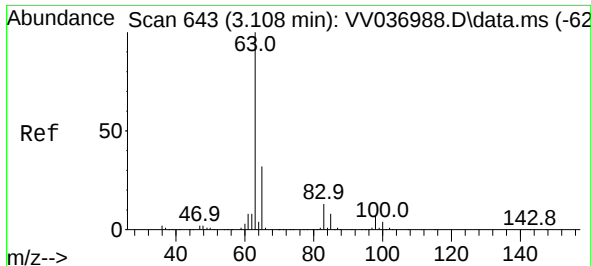
Tgt Ion: 96 Resp: 50751  
Ion Ratio Lower Upper  
96 100  
61 147.7 102.6 190.6  
98 62.2 44.6 82.8



#18  
Methyl tert-butyl Ether  
Concen: 4.600 ug/L  
RT: 2.706 min Scan# 518  
Delta R.T. -0.003 min  
Lab File: VV036993.D  
Acq: 21 Aug 2024 16:26

Tgt Ion: 73 Resp: 93506  
Ion Ratio Lower Upper  
73 100  
43 20.1 15.7 23.5  
57 23.0 17.9 26.9





#19

1,1-Dichloroethane

Concen: 5.205 ug/L

RT: 3.104 min Scan# 64

Delta R.T. -0.003 min

Lab File: VV036993.D

Acq: 21 Aug 2024 16:26

Instrument :

MSVOA\_V

ClientSampleId :

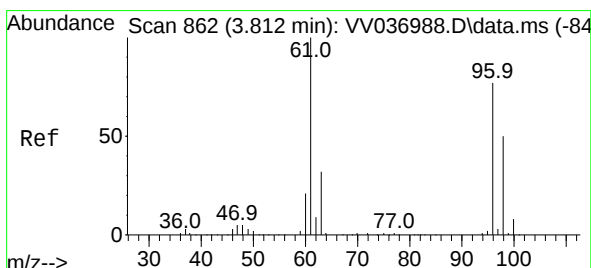
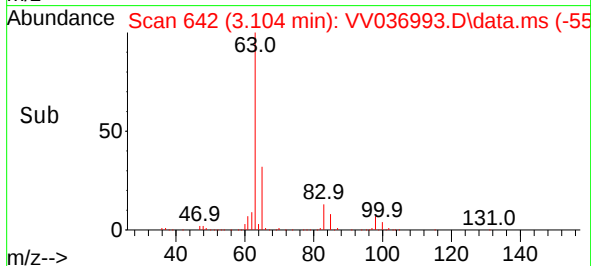
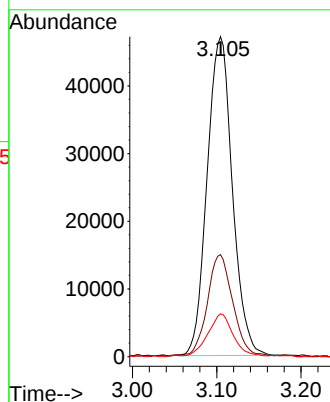
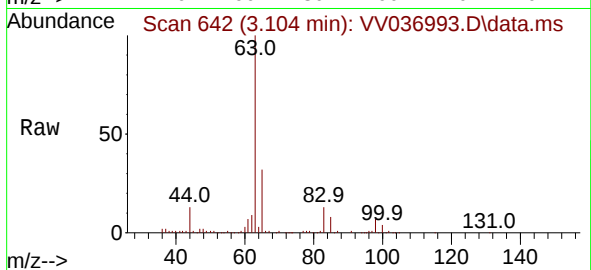
Tgt Ion: 63 Resp: 98089

Ion Ratio Lower Upper

63 100

65 31.9 22.6 42.0

83 13.4 9.2 17.0



#20

cis-1,2-Dichloroethene

Concen: 4.992 ug/L

RT: 3.805 min Scan# 860

Delta R.T. -0.007 min

Lab File: VV036993.D

Acq: 21 Aug 2024 16:26

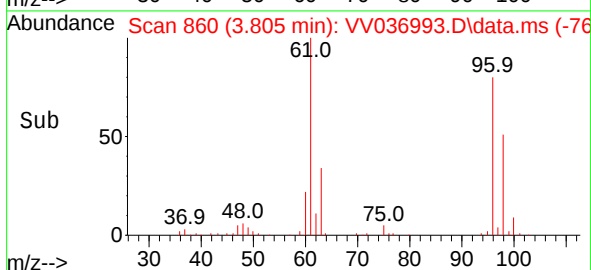
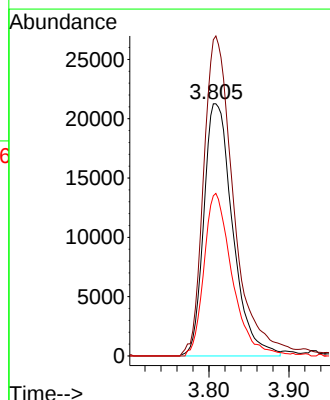
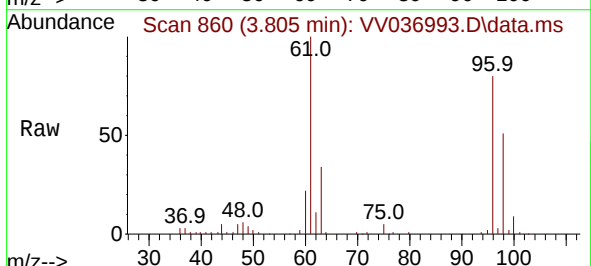
Tgt Ion: 96 Resp: 53316

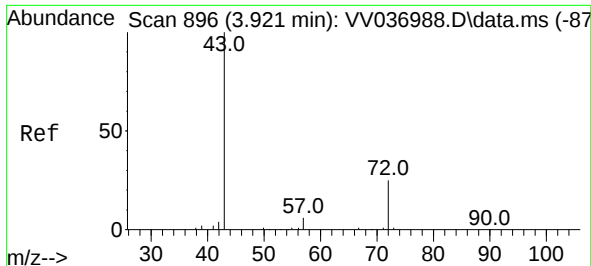
Ion Ratio Lower Upper

96 100

61 125.3 91.1 169.3

98 63.5 45.4 84.2





#22

2-Butanone

Concen: 2.999 ug/L

RT: 3.928 min Scan# 896

Delta R.T. 0.006 min

Lab File: VV036993.D

Acq: 21 Aug 2024 16:26

Instrument :

MSVOA\_V

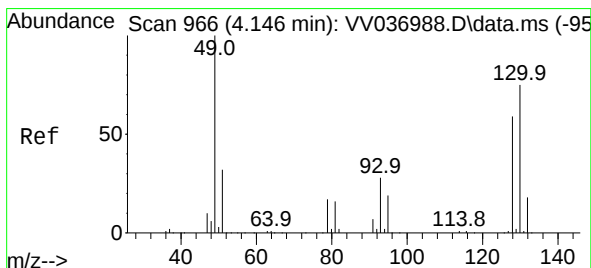
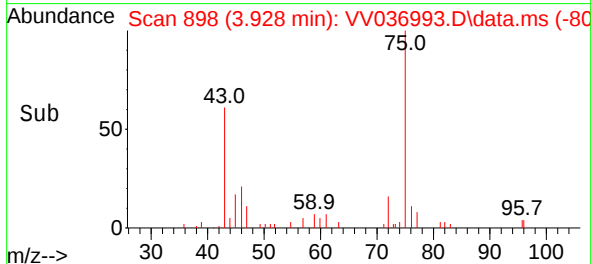
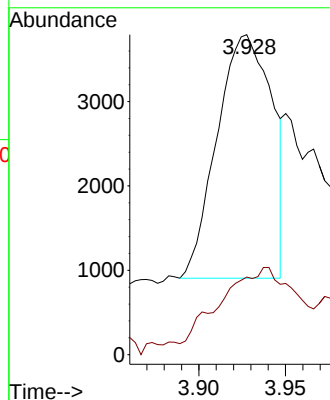
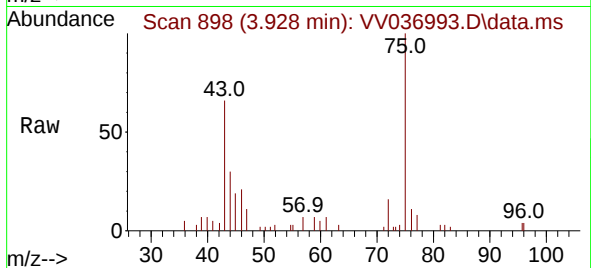
ClientSampleId :

Tgt Ion: 43 Resp: 6361

Ion Ratio Lower Upper

43 100

72 6.3 0.0 0.0#



#23

Bromochloromethane

Concen: 4.809 ug/L

RT: 4.143 min Scan# 965

Delta R.T. -0.003 min

Lab File: VV036993.D

Acq: 21 Aug 2024 16:26

Tgt Ion:128 Resp: 20241

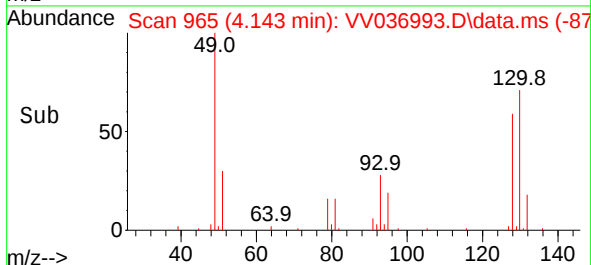
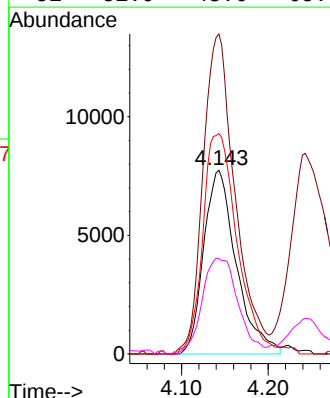
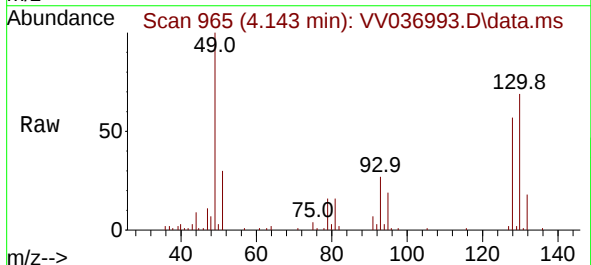
Ion Ratio Lower Upper

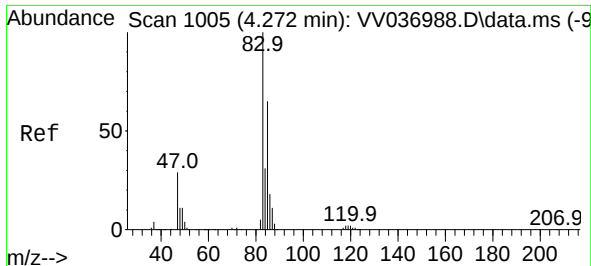
128 100

49 174.1 119.8 222.6

130 119.9 89.2 165.6

51 51.9 43.6 65.4





#25

Chloroform

Concen: 5.050 ug/L

RT: 4.268 min Scan# 1

Delta R.T. -0.003 min

Lab File: VV036993.D

Acq: 21 Aug 2024 16:26

Instrument :

MSVOA\_V

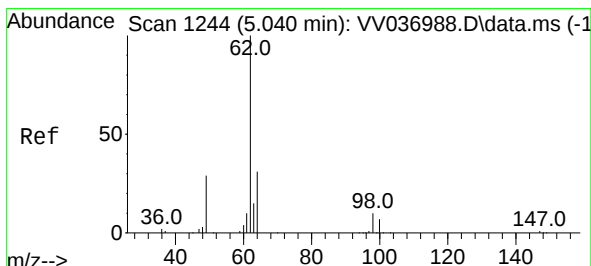
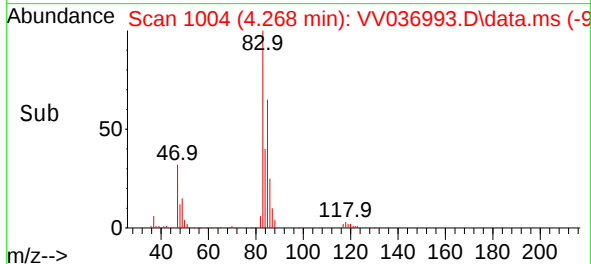
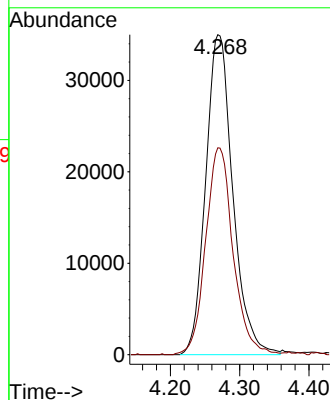
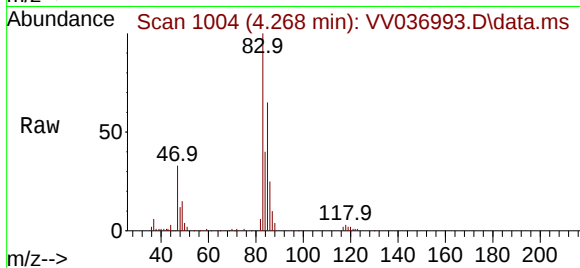
ClientSampleId :

Tgt Ion: 83 Resp: 95268

Ion Ratio Lower Upper

83 100

85 64.6 45.8 85.2



#27

1,2-Dichloroethane

Concen: 4.918 ug/L

RT: 5.040 min Scan# 1244

Delta R.T. -0.000 min

Lab File: VV036993.D

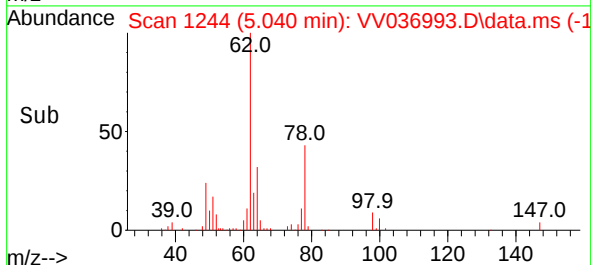
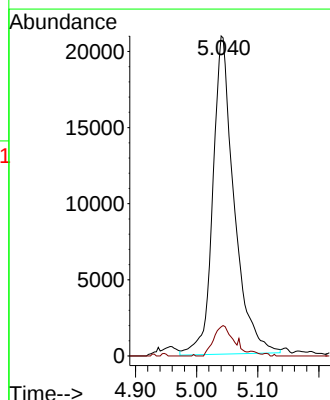
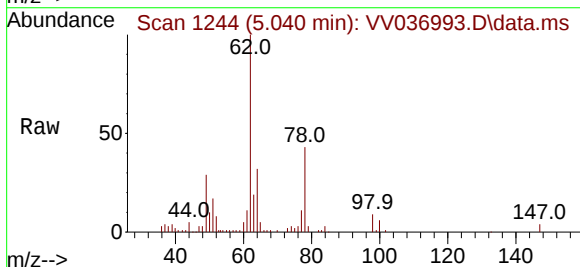
Acq: 21 Aug 2024 16:26

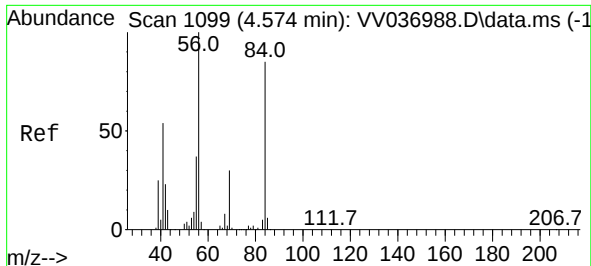
Tgt Ion: 62 Resp: 50690

Ion Ratio Lower Upper

62 100

98 9.1 8.1 12.1

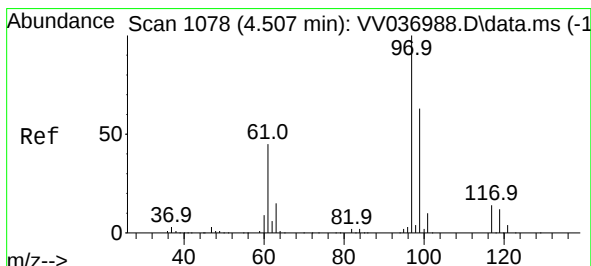
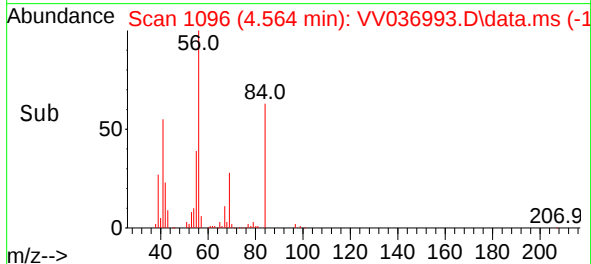
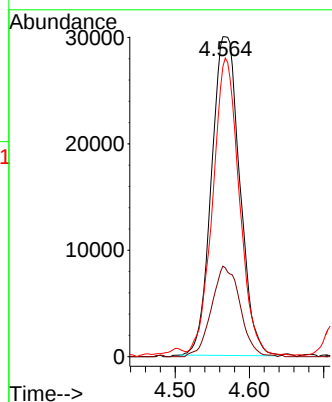
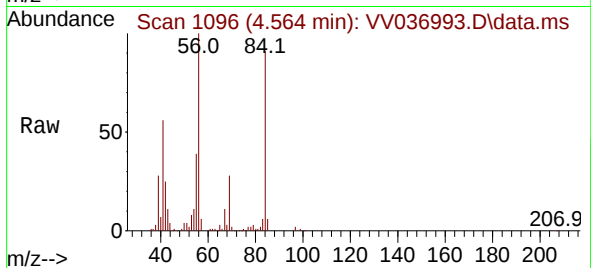




#29  
Cyclohexane  
Concen: 5.226 ug/L  
RT: 4.564 min Scan# 1096  
Delta R.T. -0.010 min  
Lab File: VV036993.D  
Acq: 21 Aug 2024 16:26

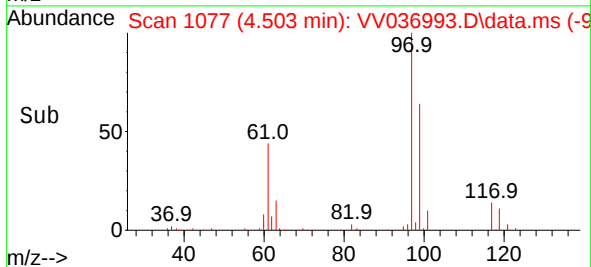
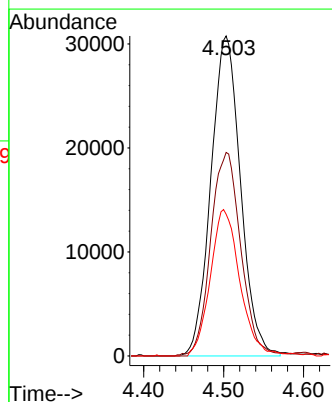
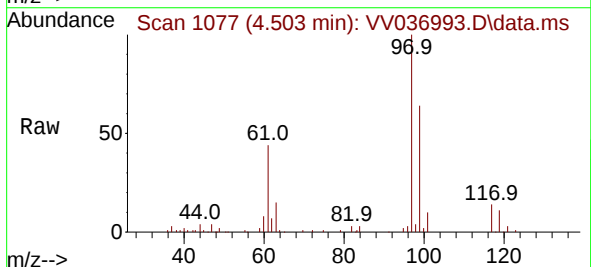
Instrument :  
MSVOA\_V  
ClientSampleId :

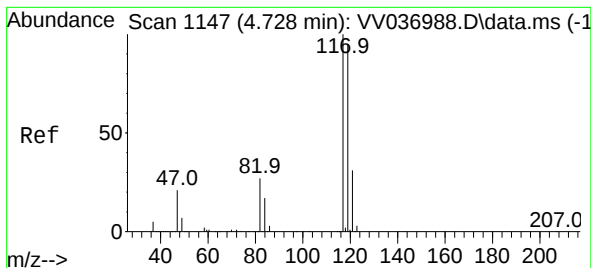
Tgt Ion: 56 Resp: 79416  
Ion Ratio Lower Upper  
56 100  
69 28.6 24.6 37.0  
84 86.7 70.1 105.1



#30  
1,1,1-Trichloroethane  
Concen: 5.268 ug/L  
RT: 4.503 min Scan# 1077  
Delta R.T. -0.003 min  
Lab File: VV036993.D  
Acq: 21 Aug 2024 16:26

Tgt Ion: 97 Resp: 79246  
Ion Ratio Lower Upper  
97 100  
99 63.7 51.2 76.8  
61 45.0 36.2 54.2





#31

Carbon tetrachloride

Concen: 5.366 ug/L

RT: 4.722 min Scan# 1145

Delta R.T. -0.007 min

Lab File: VV036993.D

Acq: 21 Aug 2024 16:26

Instrument :

MSVOA\_V

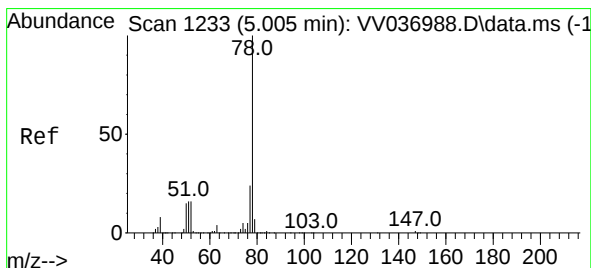
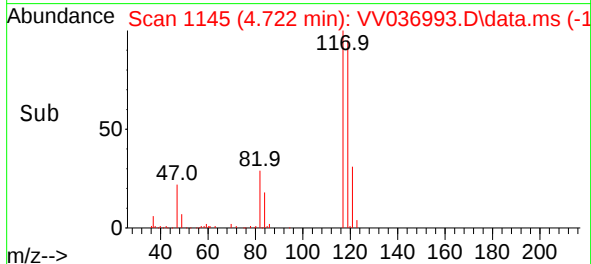
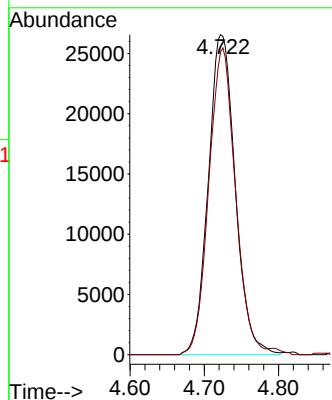
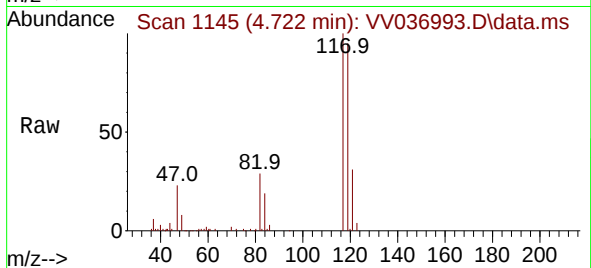
ClientSampleId :

Tgt Ion:117 Resp: 66984

Ion Ratio Lower Upper

117 100

119 94.4 76.9 115.3



#33

Benzene

Concen: 5.041 ug/L

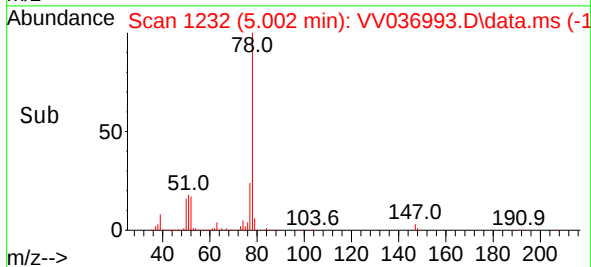
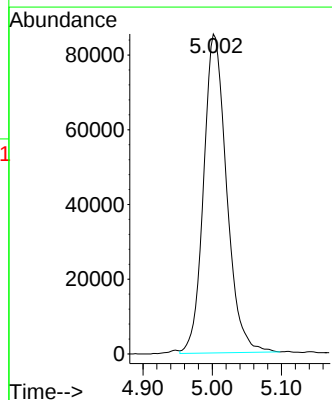
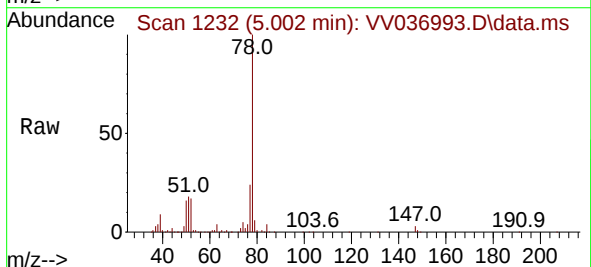
RT: 5.002 min Scan# 1232

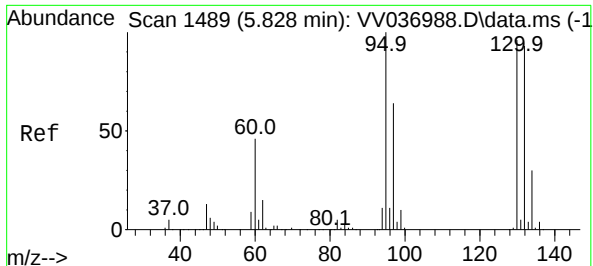
Delta R.T. -0.003 min

Lab File: VV036993.D

Acq: 21 Aug 2024 16:26

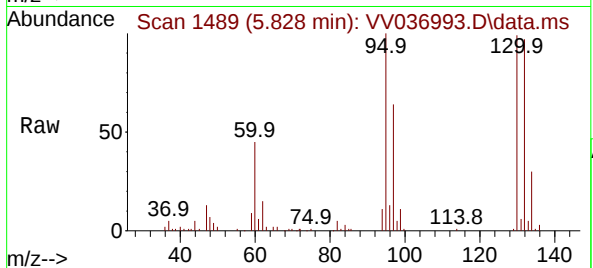
Tgt Ion: 78 Resp: 196996



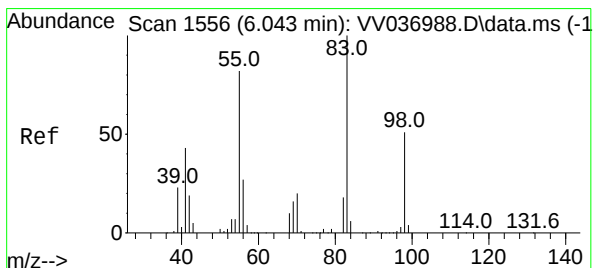
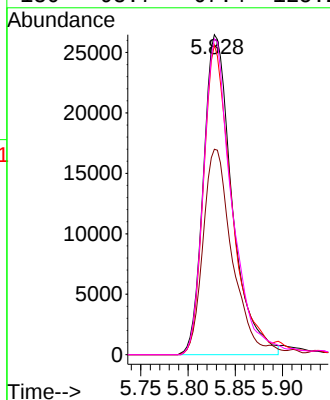
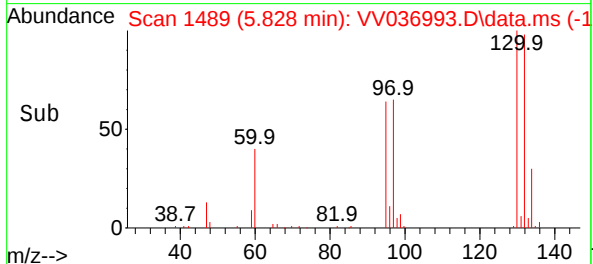


#34  
Trichloroethene  
Concen: 5.041 ug/L  
RT: 5.828 min Scan# 1489  
Delta R.T. -0.000 min  
Lab File: VV036993.D  
Acq: 21 Aug 2024 16:26

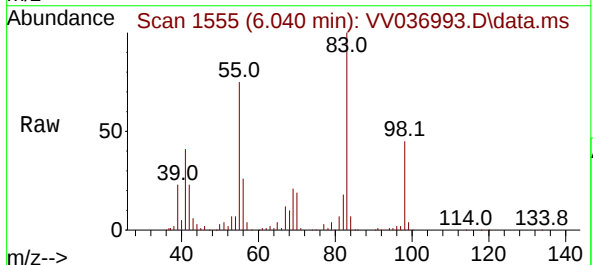
Instrument :  
MSVOA\_V  
ClientSampleId :



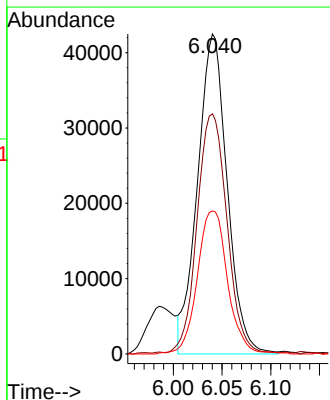
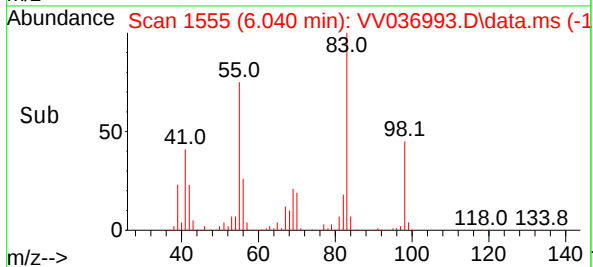
Tgt Ion: 95 Resp: 55947  
Ion Ratio Lower Upper  
95 100  
97 64.2 44.8 83.2  
132 96.8 64.8 120.4  
130 98.7 67.4 125.2

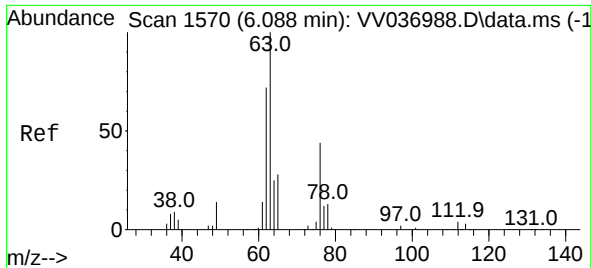


#35  
Methylcyclohexane  
Concen: 5.460 ug/L  
RT: 6.040 min Scan# 1555  
Delta R.T. -0.003 min  
Lab File: VV036993.D  
Acq: 21 Aug 2024 16:26



Tgt Ion: 83 Resp: 89817  
Ion Ratio Lower Upper  
83 100  
55 75.5 61.3 91.9  
98 45.4 38.6 57.8

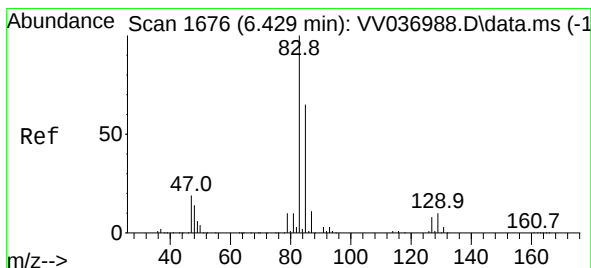
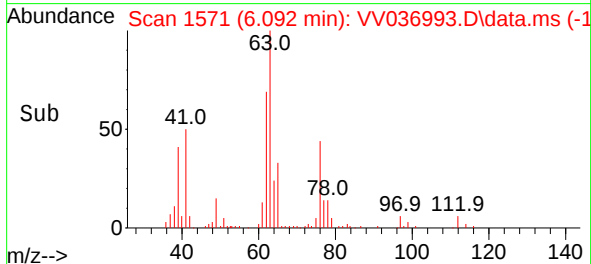
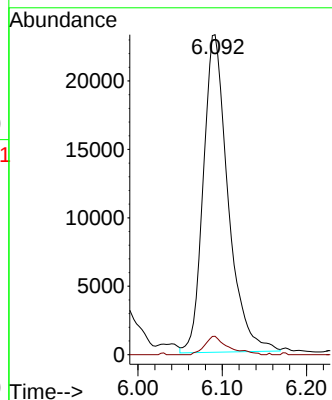
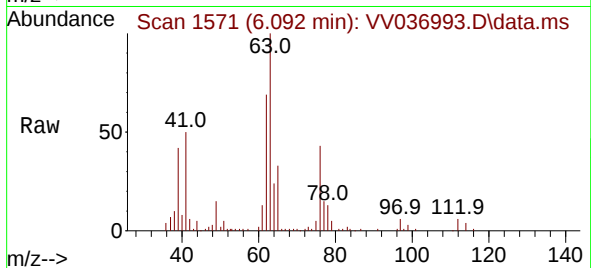




#37  
1,2-Dichloropropane  
Concen: 4.918 ug/L  
RT: 6.092 min Scan# 1570  
Delta R.T. 0.003 min  
Lab File: VV036993.D  
Acq: 21 Aug 2024 16:26

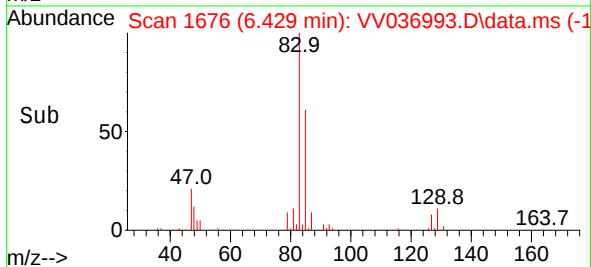
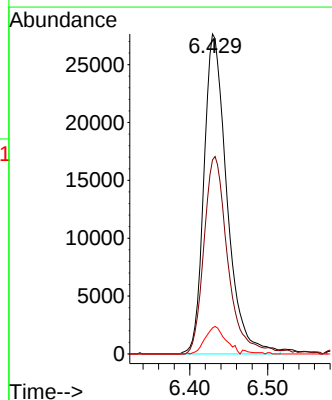
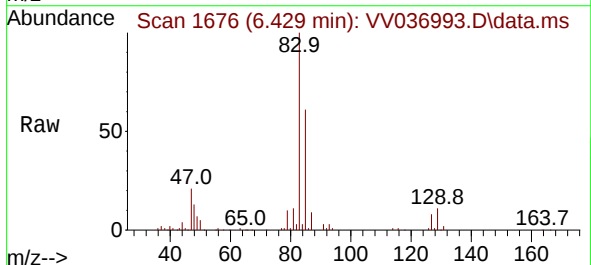
Instrument :  
MSVOA\_V  
ClientSampleId :

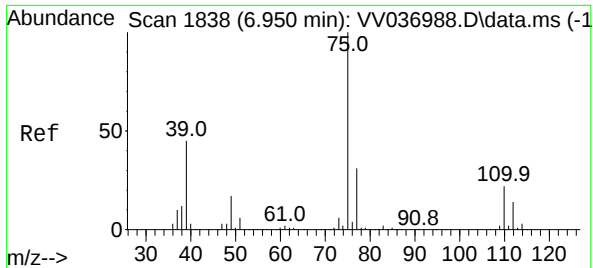
Tgt Ion: 63 Resp: 47500  
Ion Ratio Lower Upper  
63 100  
112 4.9 0.1 0.1#



#38  
Bromodichloromethane  
Concen: 4.703 ug/L  
RT: 6.429 min Scan# 1676  
Delta R.T. -0.000 min  
Lab File: VV036993.D  
Acq: 21 Aug 2024 16:26

Tgt Ion: 83 Resp: 56731  
Ion Ratio Lower Upper  
83 100  
85 60.7 45.6 84.6  
127 8.2 6.6 9.8

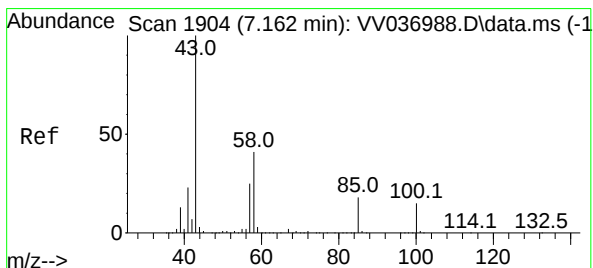
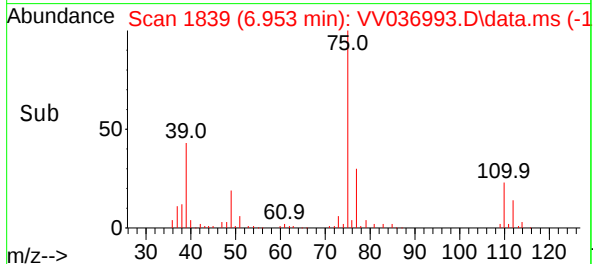
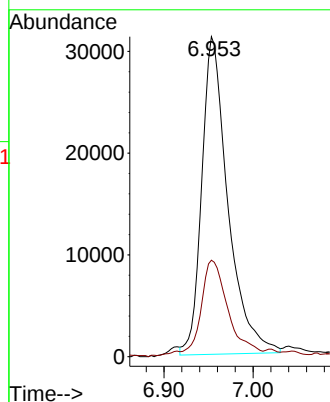
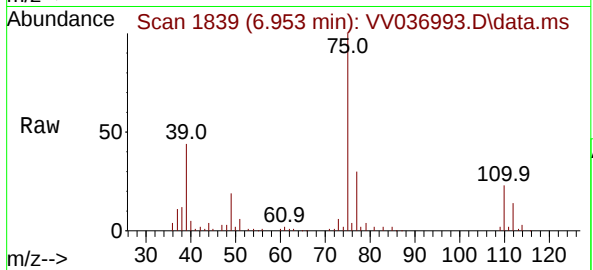




#39  
 cis-1,3-Dichloropropene  
 Concen: 4.405 ug/L  
 RT: 6.953 min Scan# 11  
 Delta R.T. 0.003 min  
 Lab File: VV036993.D  
 Acq: 21 Aug 2024 16:26

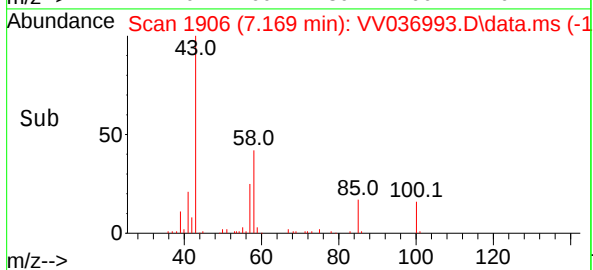
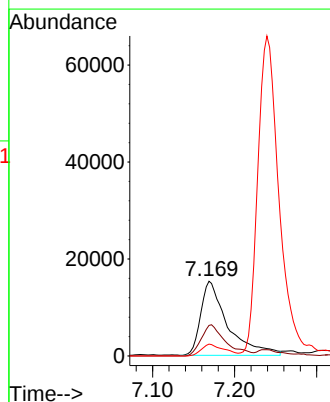
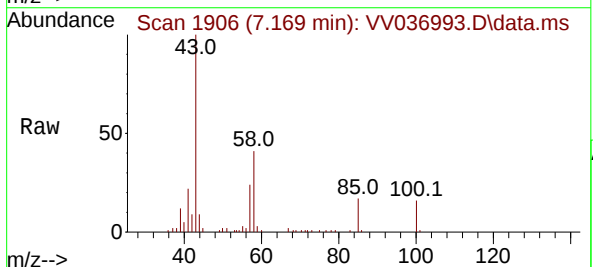
Instrument :  
 MSVOA\_V  
 ClientSampleId :

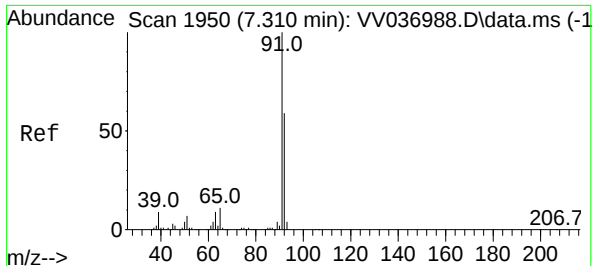
Tgt Ion: 75 Resp: 63680  
 Ion Ratio Lower Upper  
 75 100  
 77 30.1 21.8 40.4



#40  
 4-Methyl-2-pentanone  
 Concen: 8.728 ug/L  
 RT: 7.169 min Scan# 1906  
 Delta R.T. 0.006 min  
 Lab File: VV036993.D  
 Acq: 21 Aug 2024 16:26

Tgt Ion: 43 Resp: 34837  
 Ion Ratio Lower Upper  
 43 100  
 58 38.4 31.5 47.3  
 100 13.5 12.4 18.6





#42

Toluene

Concen: 4.946 ug/L

RT: 7.310 min Scan# 1950

Delta R.T. -0.000 min

Lab File: VV036993.D

Acq: 21 Aug 2024 16:26

Instrument :

MSVOA\_V

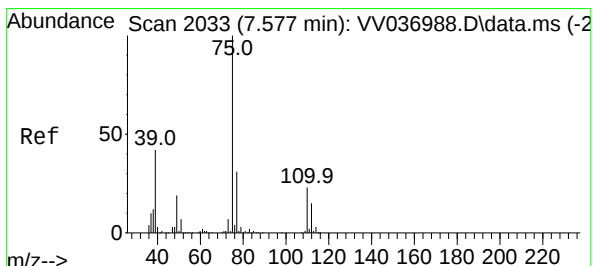
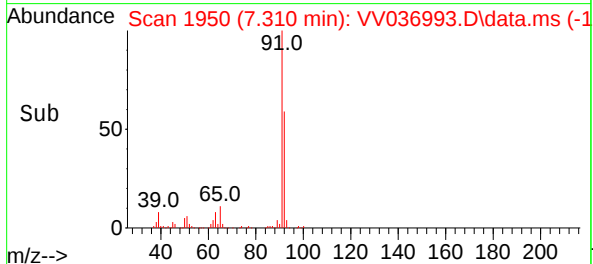
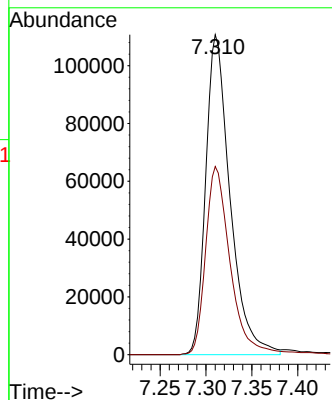
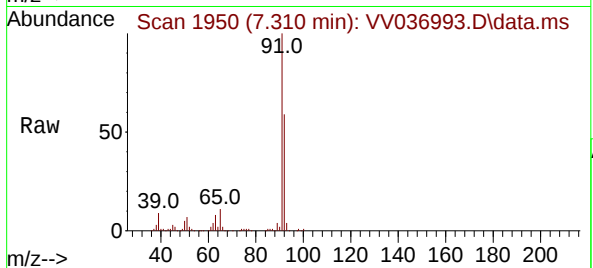
ClientSampleId :

Tgt Ion: 91 Resp: 204518

Ion Ratio Lower Upper

91 100

92 58.8 41.3 76.7



#44

trans-1,3-Dichloropropene

Concen: 4.247 ug/L

RT: 7.583 min Scan# 2035

Delta R.T. 0.006 min

Lab File: VV036993.D

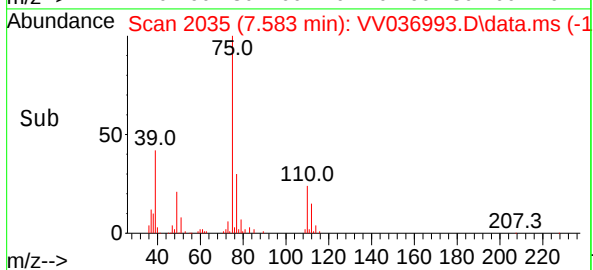
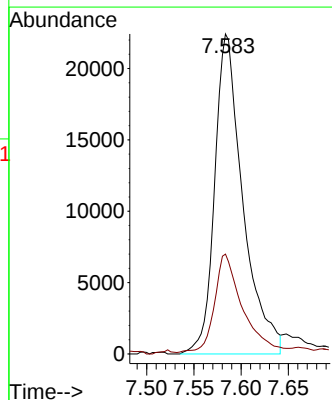
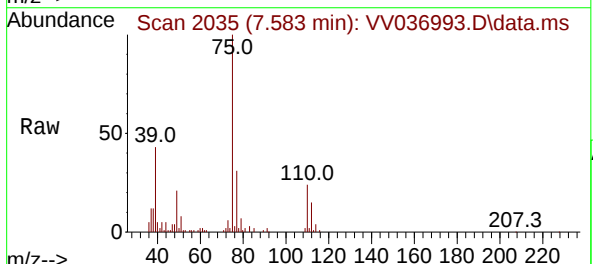
Acq: 21 Aug 2024 16:26

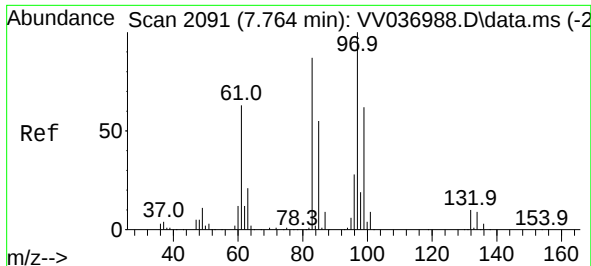
Tgt Ion: 75 Resp: 46550

Ion Ratio Lower Upper

75 100

77 31.2 21.6 40.0

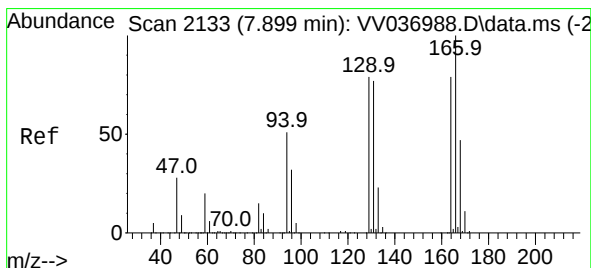
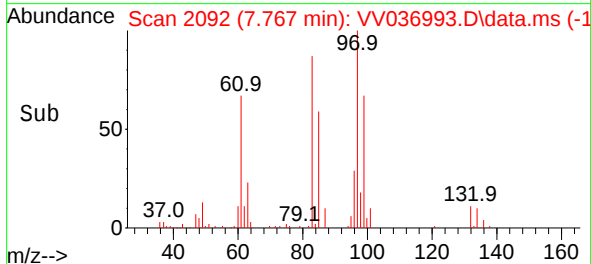
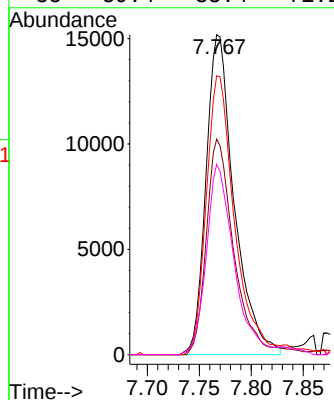
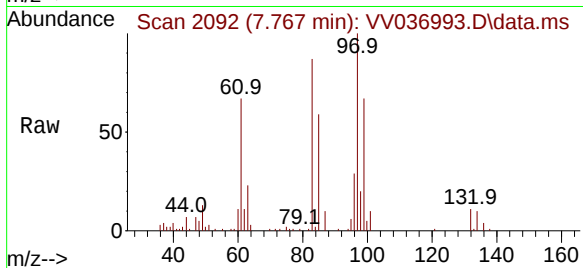




#45  
1,1,2-Trichloroethane  
Concen: 4.575 ug/L  
RT: 7.767 min Scan# 2092  
Delta R.T. 0.003 min  
Lab File: VV036993.D  
Acq: 21 Aug 2024 16:26

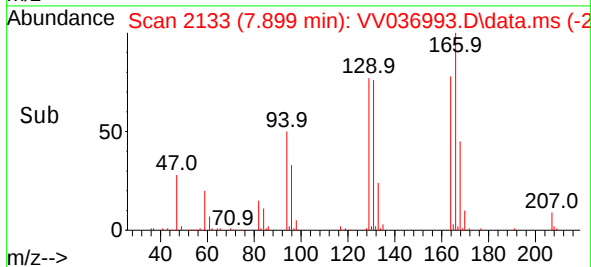
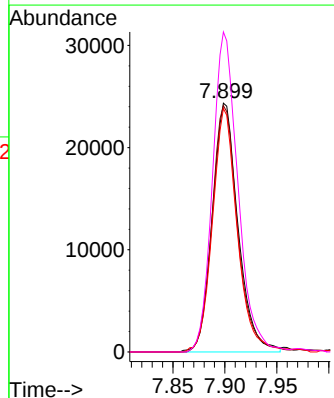
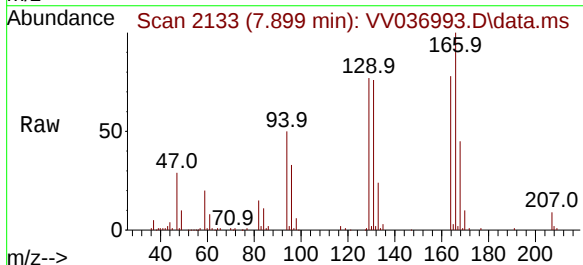
Instrument :  
MSVOA\_V  
ClientSampleId :

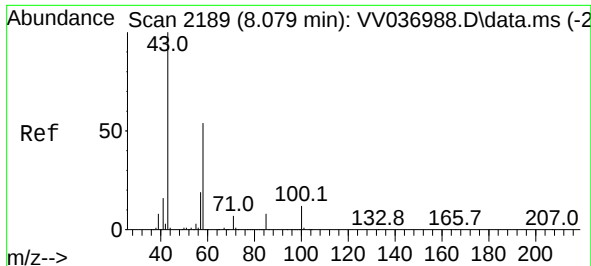
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 28612 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 67.4  | 43.6  | 81.0  |
| 83       | 87.1  | 61.1  | 113.5 |
| 85       | 59.4  | 38.4  | 71.2  |



#46  
Tetrachloroethene  
Concen: 5.409 ug/L  
RT: 7.899 min Scan# 2133  
Delta R.T. -0.000 min  
Lab File: VV036993.D  
Acq: 21 Aug 2024 16:26

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 41916 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 99.0  | 70.8  | 131.4 |
| 131      | 97.8  | 68.1  | 126.5 |
| 166      | 128.7 | 89.0  | 165.2 |





#48

2-Hexanone

Concen: 7.132 ug/L

RT: 8.095 min Scan# 2189

Delta R.T. 0.016 min

Lab File: VV036993.D

Acq: 21 Aug 2024 16:26

Instrument :

MSVOA\_V

ClientSampleId :

Tgt Ion: 43 Resp: 21457

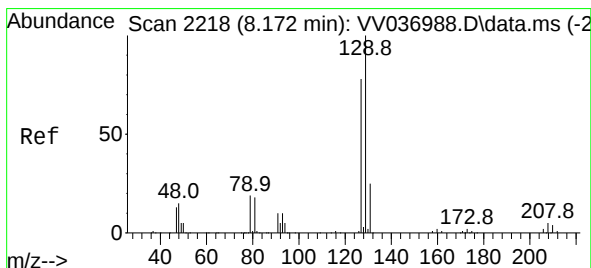
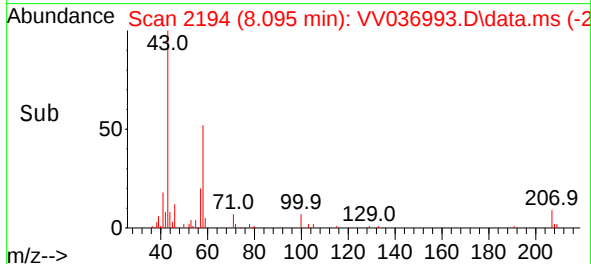
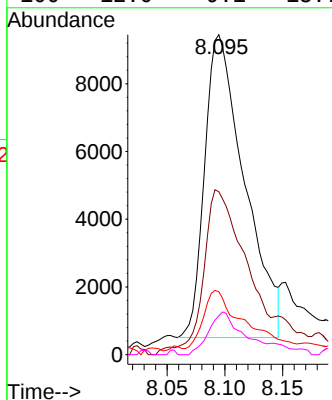
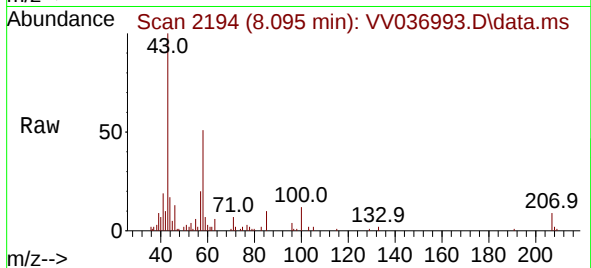
Ion Ratio Lower Upper

43 100

58 52.1 45.0 67.6

57 19.8 13.3 19.9

100 12.0 9.1 13.7



#49

Dibromochloromethane

Concen: 4.292 ug/L

RT: 8.175 min Scan# 2219

Delta R.T. 0.003 min

Lab File: VV036993.D

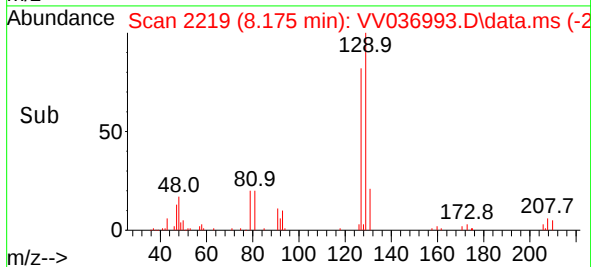
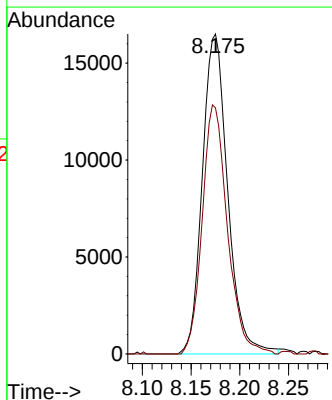
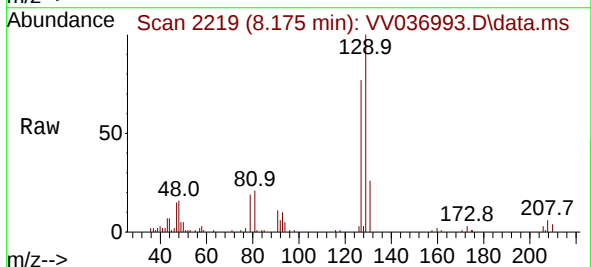
Acq: 21 Aug 2024 16:26

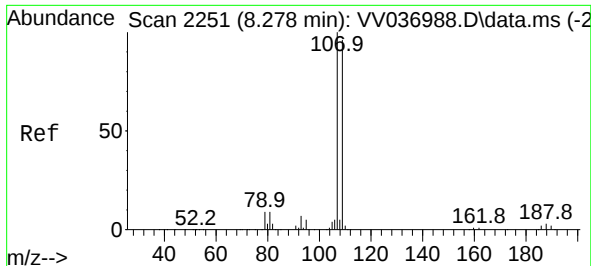
Tgt Ion: 129 Resp: 29838

Ion Ratio Lower Upper

129 100

127 76.9 54.9 101.9

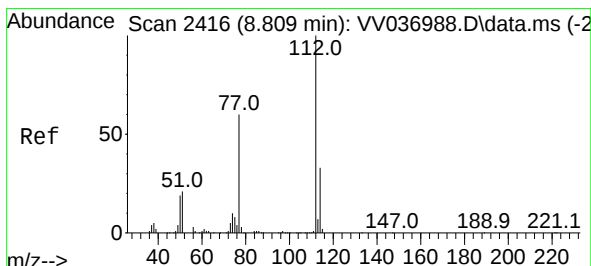
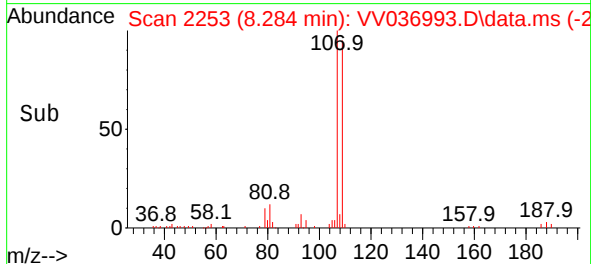
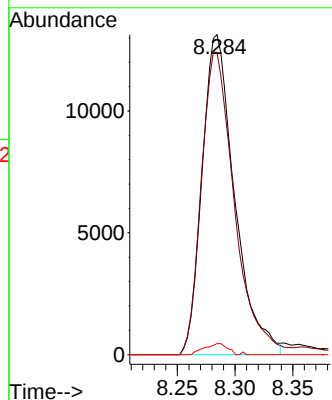
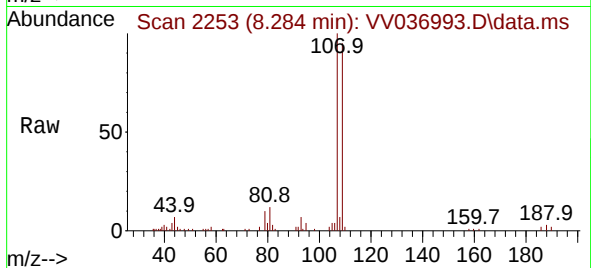




#50  
1,2-Dibromoethane  
Concen: 4.437 ug/L  
RT: 8.284 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VV036993.D  
Acq: 21 Aug 2024 16:26

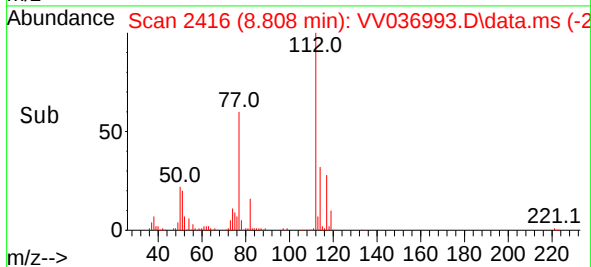
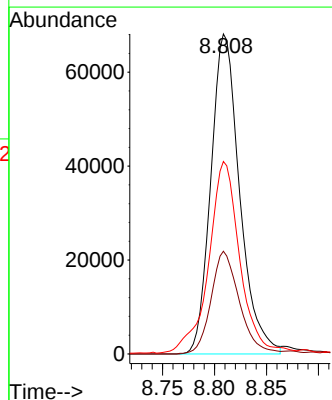
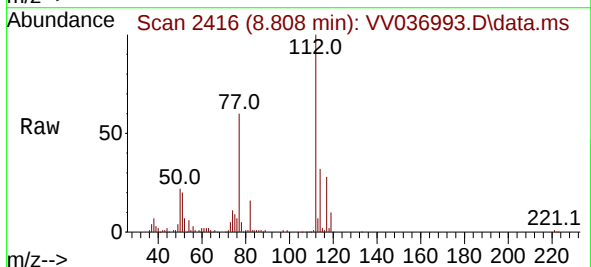
Instrument :  
MSVOA\_V  
ClientSampleId :

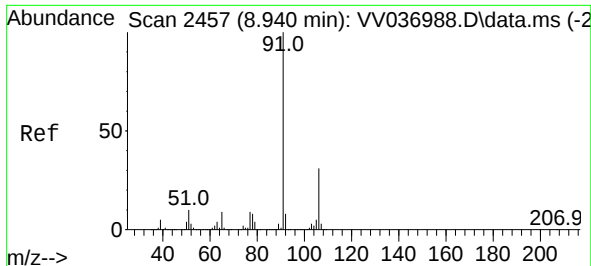
Tgt Ion:107 Resp: 25634  
Ion Ratio Lower Upper  
107 100  
109 94.5 67.1 124.7  
188 3.5 2.5 3.7



#51  
Chlorobenzene  
Concen: 4.975 ug/L  
RT: 8.808 min Scan# 2416  
Delta R.T. -0.000 min  
Lab File: VV036993.D  
Acq: 21 Aug 2024 16:26

Tgt Ion:112 Resp: 131363  
Ion Ratio Lower Upper  
112 100  
114 32.1 22.8 42.4  
77 60.2 47.8 71.8





#52

Ethylbenzene

Concen: 5.002 ug/L

RT: 8.940 min Scan# 2457

Delta R.T. -0.000 min

Lab File: VV036993.D

Acq: 21 Aug 2024 16:26

Instrument :

MSVOA\_V

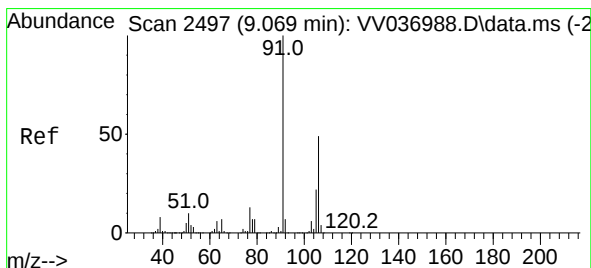
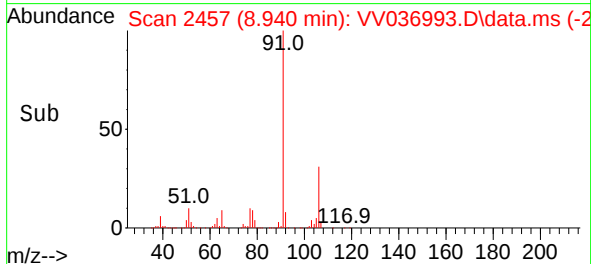
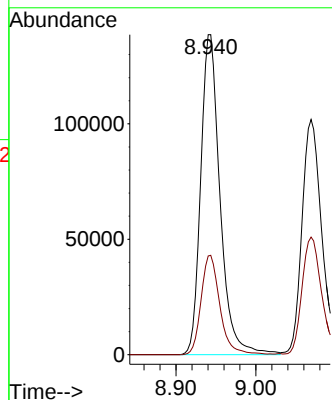
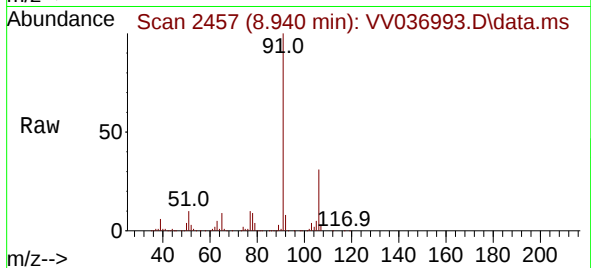
ClientSampleId :

Tgt Ion: 91 Resp: 233668

Ion Ratio Lower Upper

91 100

106 30.9 21.3 39.6



#53

m,p-Xylene

Concen: 5.069 ug/L

RT: 9.069 min Scan# 2497

Delta R.T. -0.000 min

Lab File: VV036993.D

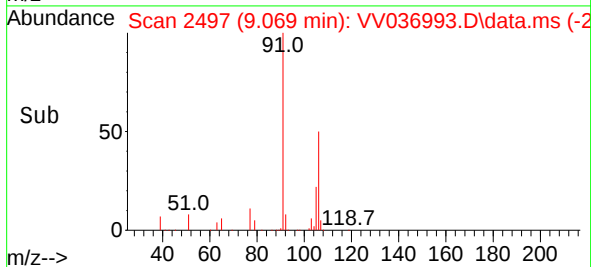
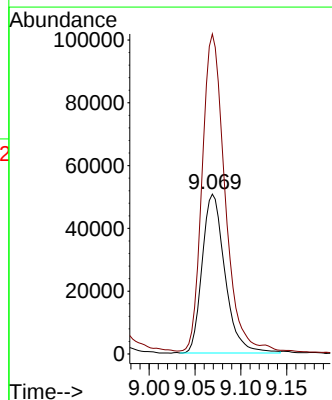
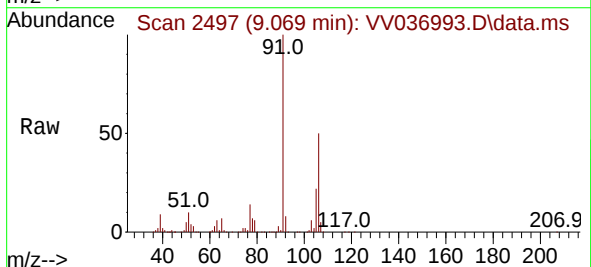
Acq: 21 Aug 2024 16:26

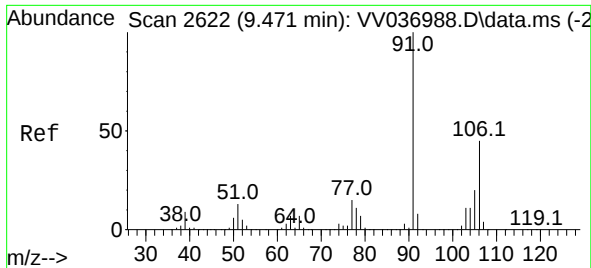
Tgt Ion: 106 Resp: 87567

Ion Ratio Lower Upper

106 100

91 200.1 142.5 264.6

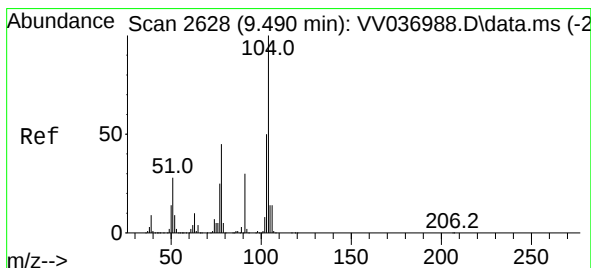
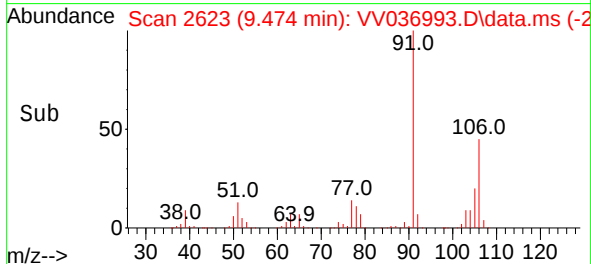
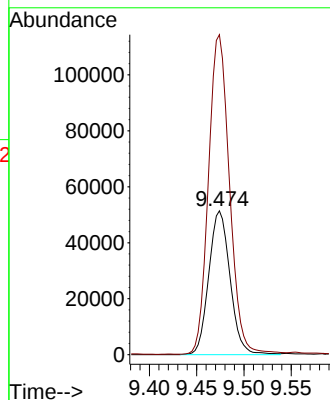
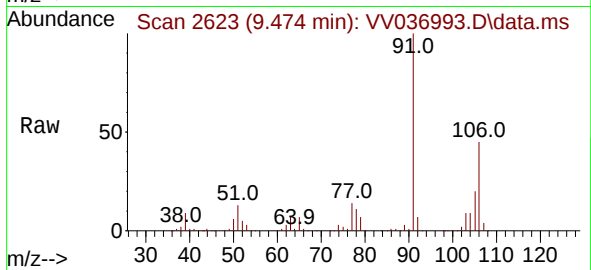




#54  
o-Xylene  
Concen: 4.843 ug/L  
RT: 9.474 min Scan# 20  
Delta R.T. 0.003 min  
Lab File: VV036993.D  
Acq: 21 Aug 2024 16:26

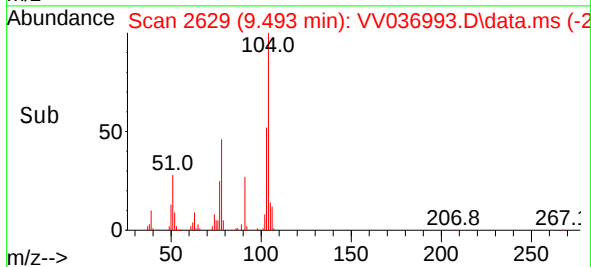
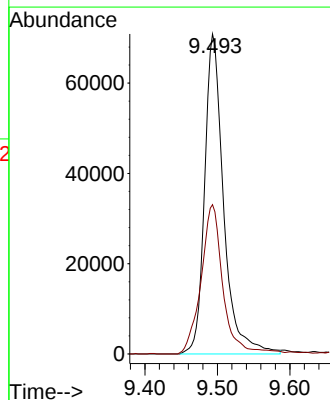
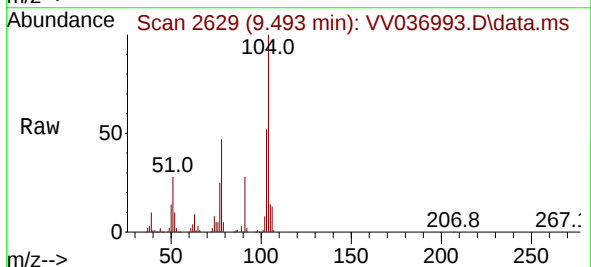
Instrument :  
MSVOA\_V  
ClientSampleId :

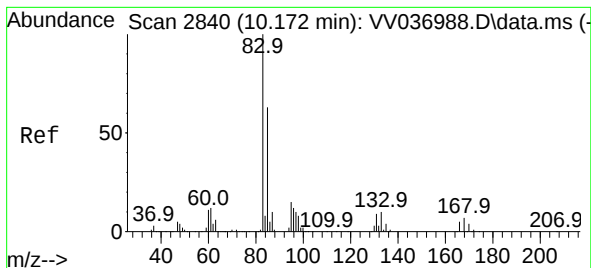
Tgt Ion:106 Resp: 80584  
Ion Ratio Lower Upper  
106 100  
91 222.5 154.2 286.4



#55  
Styrene  
Concen: 4.642 ug/L  
RT: 9.493 min Scan# 2629  
Delta R.T. 0.003 min  
Lab File: VV036993.D  
Acq: 21 Aug 2024 16:26

Tgt Ion:104 Resp: 128941  
Ion Ratio Lower Upper  
104 100  
78 46.7 31.2 58.0

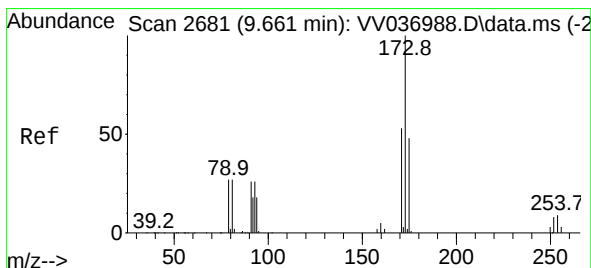
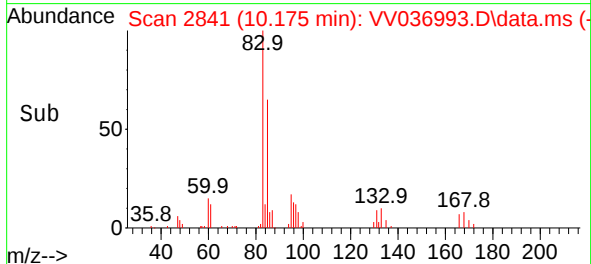
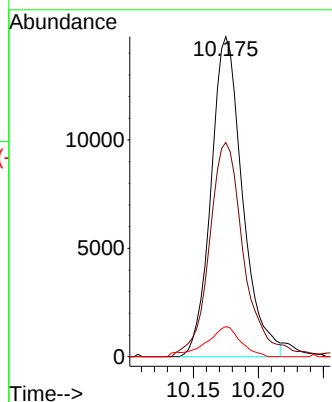
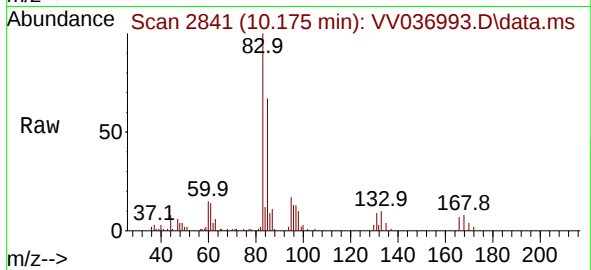




#57  
1,1,2,2-Tetrachloroethane  
Concen: 4.169 ug/L  
RT: 10.175 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VV036993.D  
Acq: 21 Aug 2024 16:26

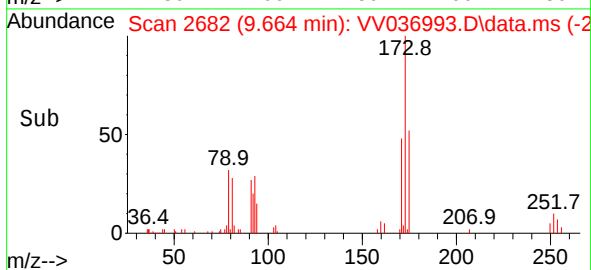
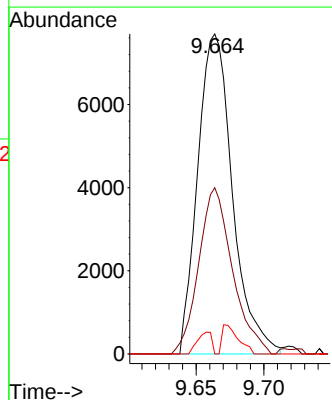
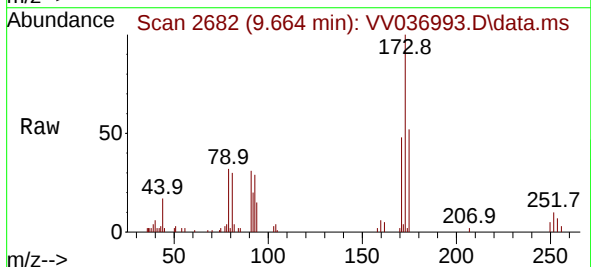
Instrument :  
MSVOA\_V  
ClientSampleId :

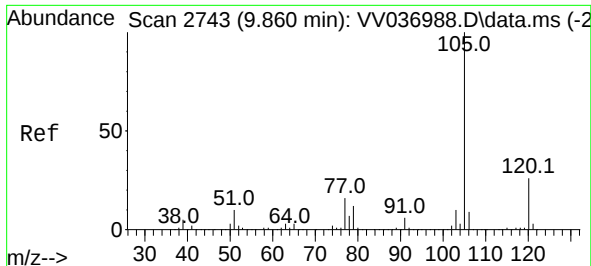
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 66.9  | 44.3  | 82.3  |
| 131     | 9.4   | 7.2   | 10.8  |



#59  
Bromoform  
Concen: 4.137 ug/L  
RT: 9.664 min Scan# 2682  
Delta R.T. 0.003 min  
Lab File: VV036993.D  
Acq: 21 Aug 2024 16:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 173     | 100   |       |       |
| 175     | 50.3  | 39.4  | 59.0  |
| 254     | 4.2   | 6.6   | 10.0  |





#60

Isopropylbenzene

Concen: 5.173 ug/L

RT: 9.863 min Scan# 21

Delta R.T. 0.003 min

Lab File: VV036993.D

Acq: 21 Aug 2024 16:26

Instrument :

MSVOA\_V

ClientSampleId :

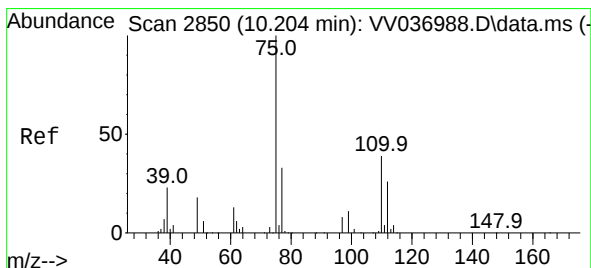
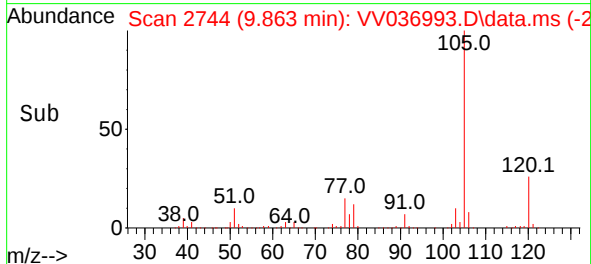
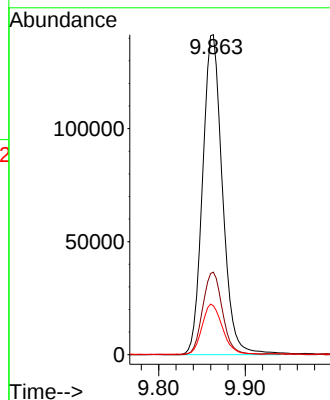
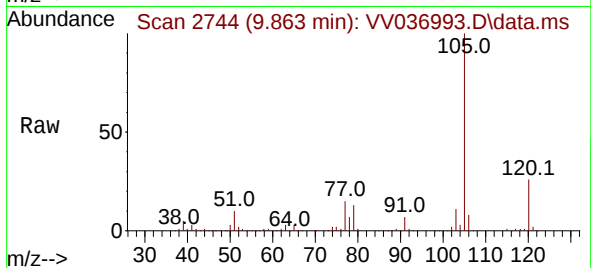
Tgt Ion:105 Resp: 225439

Ion Ratio Lower Upper

105 100

120 25.7 20.3 30.5

77 15.8 12.6 19.0



#61

1,2,3-Trichloropropane

Concen: 4.818 ug/L

RT: 10.207 min Scan# 2851

Delta R.T. 0.003 min

Lab File: VV036993.D

Acq: 21 Aug 2024 16:26

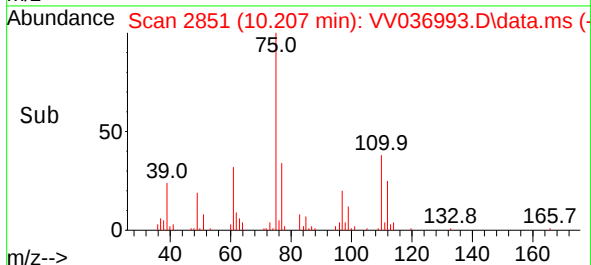
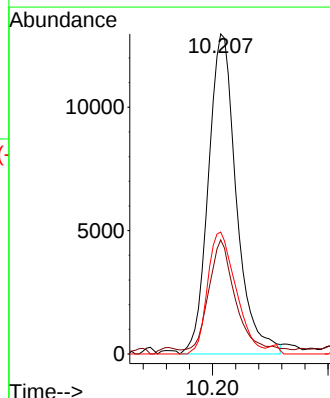
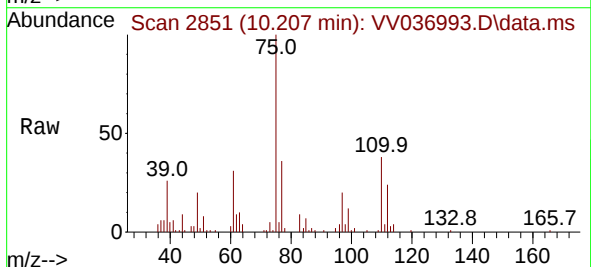
Tgt Ion: 75 Resp: 21902

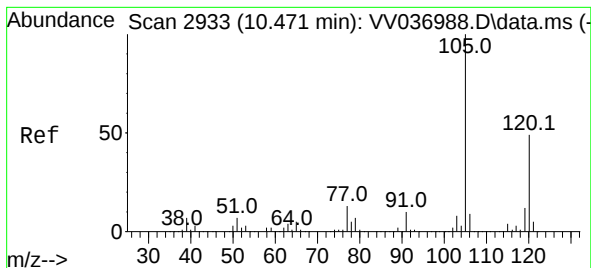
Ion Ratio Lower Upper

75 100

77 31.2 26.2 39.4

110 38.4 31.4 47.2





#62

1,3,5-Trimethylbenzene

Concen: 5.021 ug/L

RT: 10.471 min Scan# 20

Delta R.T. -0.000 min

Lab File: VV036993.D

Acq: 21 Aug 2024 16:26

Instrument :

MSVOA\_V

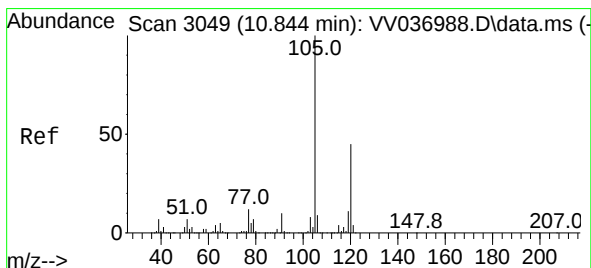
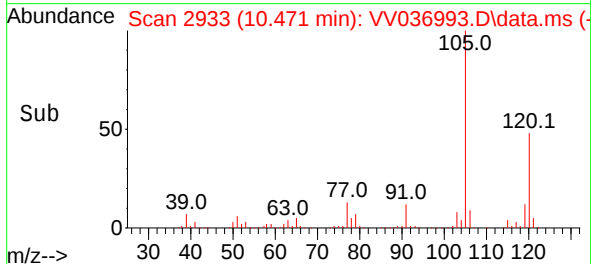
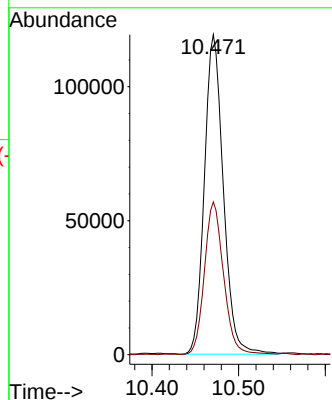
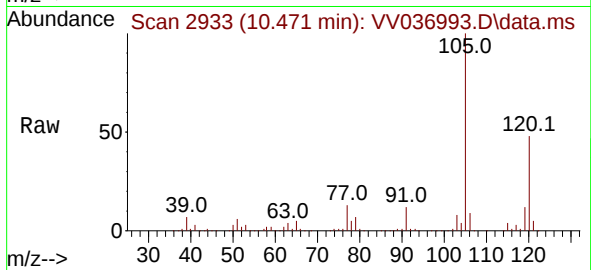
ClientSampleId :

Tgt Ion:105 Resp: 181359

Ion Ratio Lower Upper

105 100

120 48.5 38.7 58.1



#63

1,2,4-Trimethylbenzene

Concen: 4.997 ug/L

RT: 10.847 min Scan# 3050

Delta R.T. 0.003 min

Lab File: VV036993.D

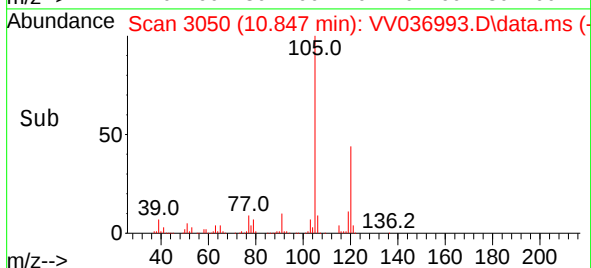
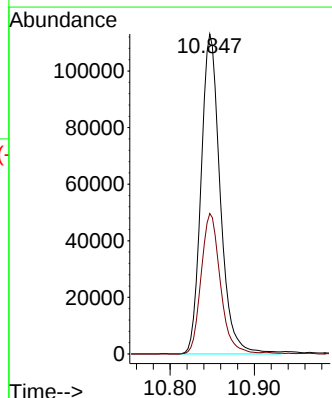
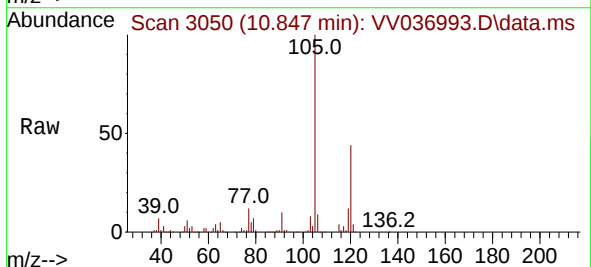
Acq: 21 Aug 2024 16:26

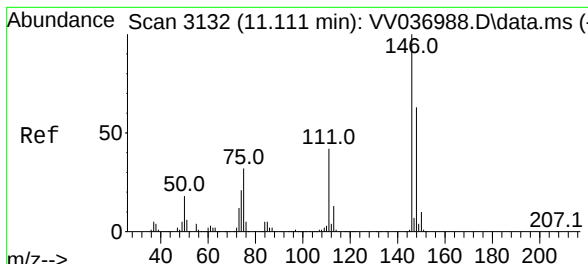
Tgt Ion:105 Resp: 178853

Ion Ratio Lower Upper

105 100

120 44.1 35.5 53.3

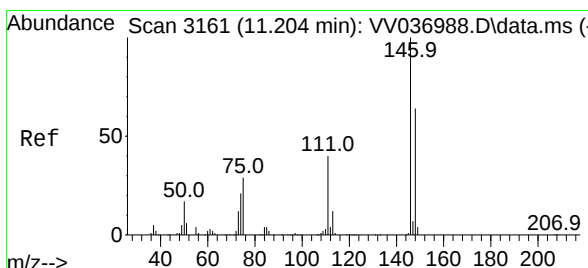
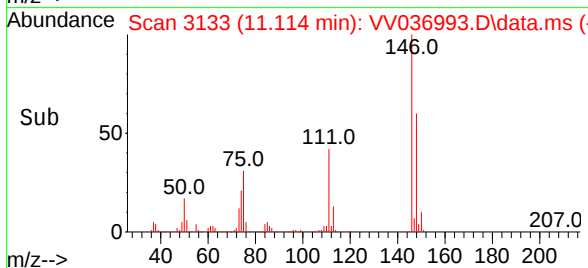
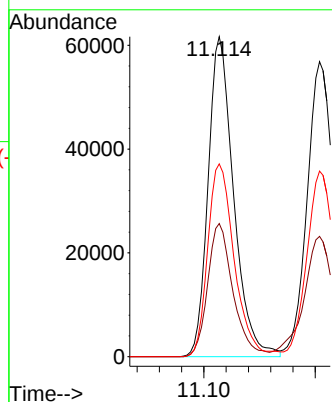
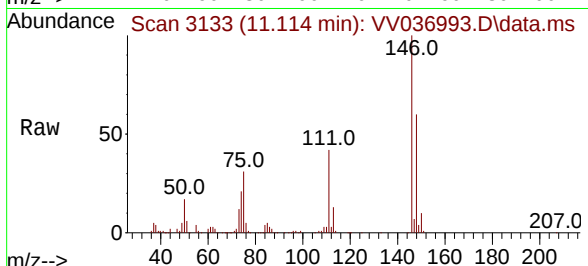




#64  
1,3-Dichlorobenzene  
Concen: 5.053 ug/L  
RT: 11.114 min Scan# 3132  
Delta R.T. 0.003 min  
Lab File: VV036993.D  
Acq: 21 Aug 2024 16:26

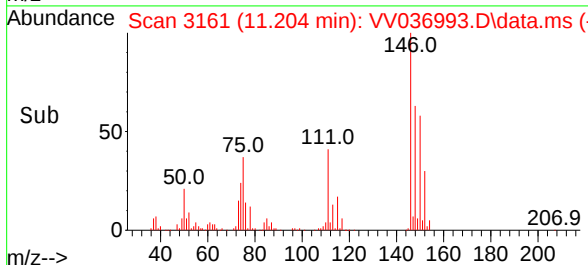
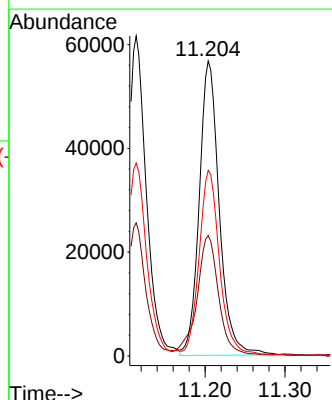
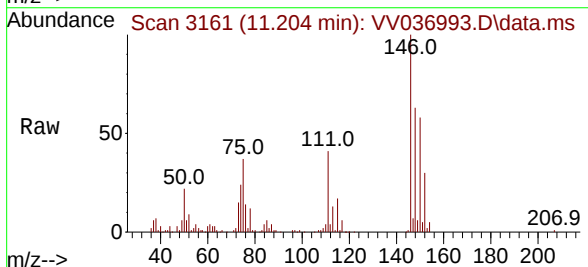
Instrument :  
MSVOA\_V  
ClientSampleId :

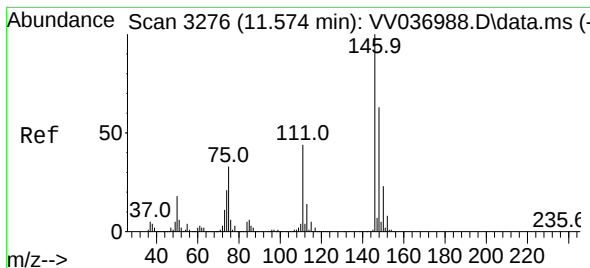
Tgt Ion:146 Resp: 98094  
Ion Ratio Lower Upper  
146 100  
111 41.6 29.3 54.3  
148 60.2 44.2 82.0



#65  
1,4-Dichlorobenzene  
Concen: 5.136 ug/L  
RT: 11.204 min Scan# 3161  
Delta R.T. -0.000 min  
Lab File: VV036993.D  
Acq: 21 Aug 2024 16:26

Tgt Ion:146 Resp: 99158  
Ion Ratio Lower Upper  
146 100  
111 40.8 28.1 52.1  
148 62.9 44.5 82.7





#67

1,2-Dichlorobenzene

Concen: 4.958 ug/L

RT: 11.574 min Scan# 31

Delta R.T. -0.000 min

Lab File: VV036993.D

Acq: 21 Aug 2024 16:26

Instrument :

MSVOA\_V

ClientSampleId :

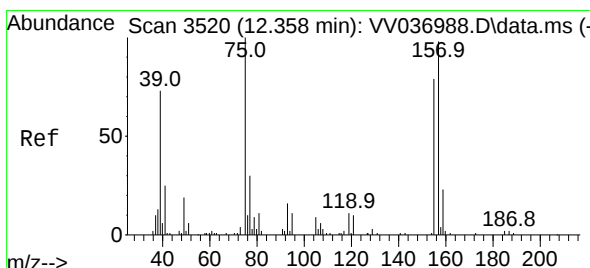
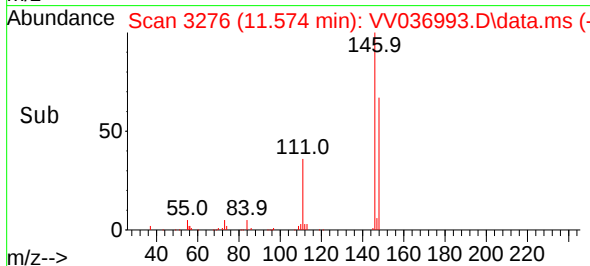
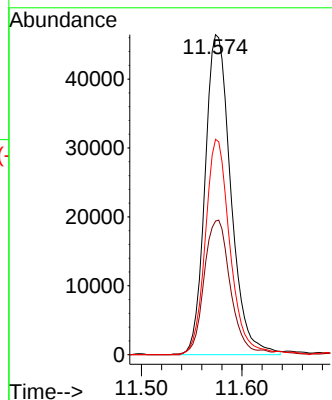
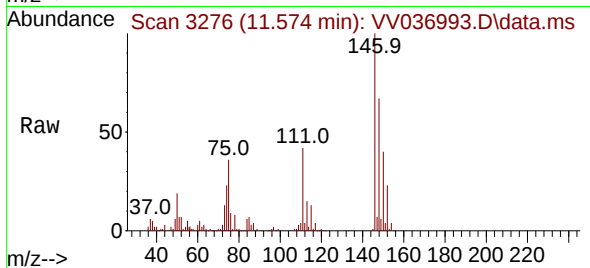
Tgt Ion:146 Resp: 82851

Ion Ratio Lower Upper

146 100

111 41.7 35.2 52.8

148 67.3 50.8 76.2



#68

1,2-Dibromo-3-chloropropane

Concen: 4.058 ug/L

RT: 12.361 min Scan# 3521

Delta R.T. 0.003 min

Lab File: VV036993.D

Acq: 21 Aug 2024 16:26

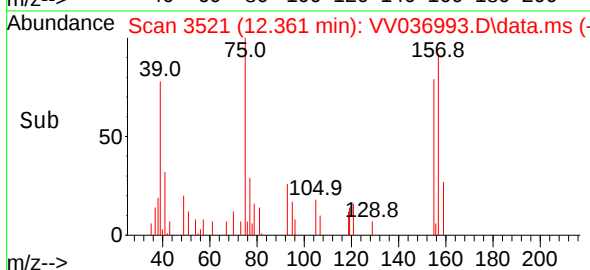
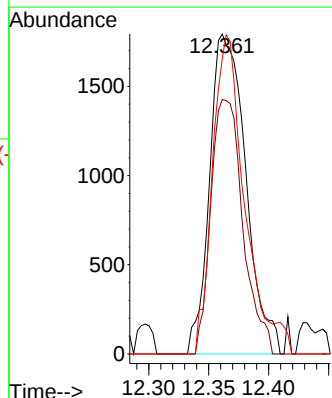
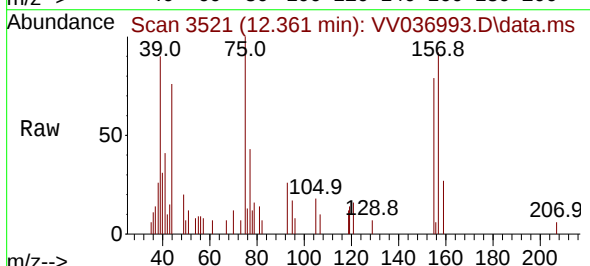
Tgt Ion: 75 Resp: 3757

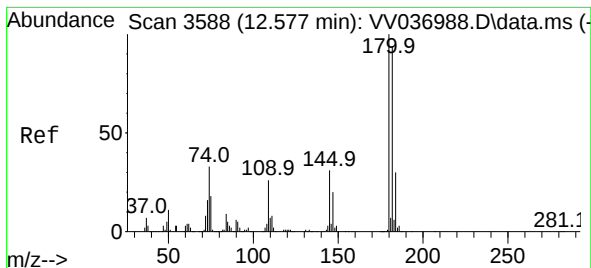
Ion Ratio Lower Upper

75 100

155 85.6 63.0 94.4

157 92.3 78.7 118.1





#69

1,3,5-Trichlorobenzene

Concen: 4.994 ug/L

RT: 12.580 min Scan# 3588

Delta R.T. 0.003 min

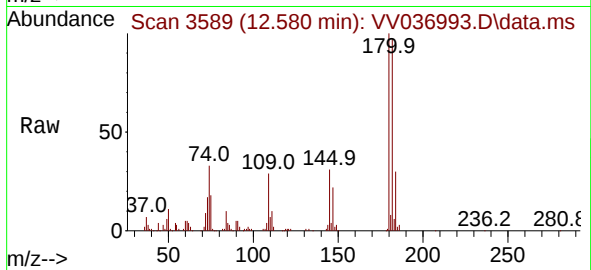
Lab File: VV036993.D

Acq: 21 Aug 2024 16:26

Instrument :

MSVOA\_V

ClientSampleId :



Tgt Ion:180 Resp: 67388

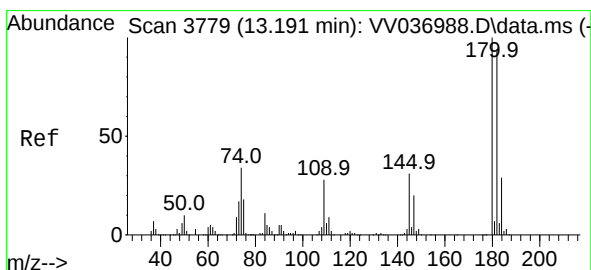
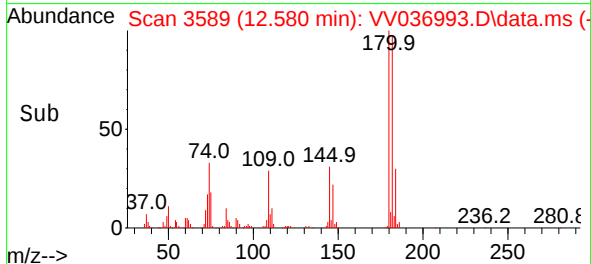
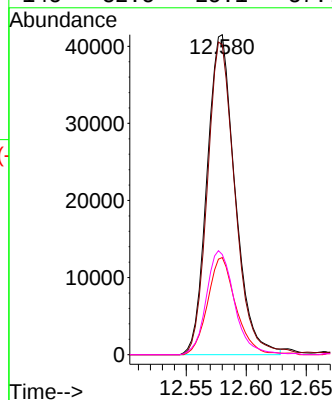
Ion Ratio Lower Upper

180 100

182 95.5 75.4 113.0

184 30.3 23.9 35.9

145 32.5 25.1 37.7



#70

1,2,4-trichlorobenzene

Concen: 4.999 ug/L

RT: 13.194 min Scan# 3780

Delta R.T. 0.003 min

Lab File: VV036993.D

Acq: 21 Aug 2024 16:26

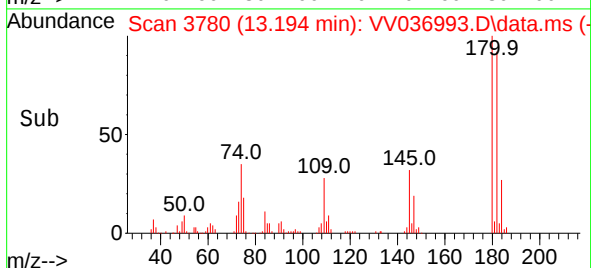
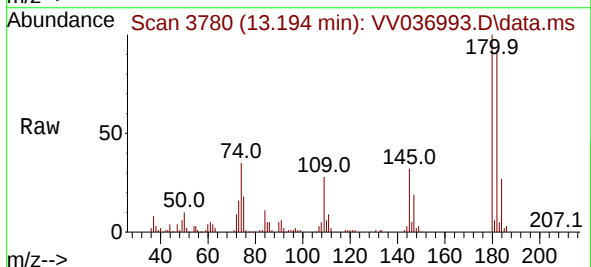
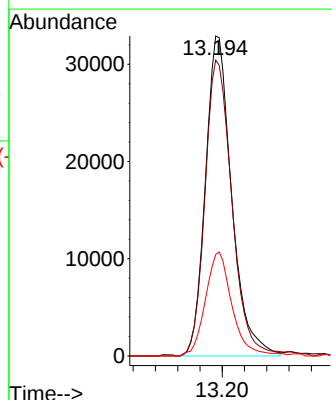
Tgt Ion:180 Resp: 53926

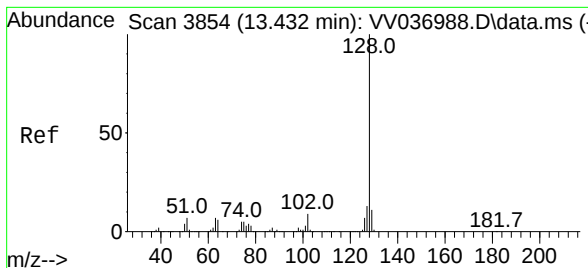
Ion Ratio Lower Upper

180 100

182 94.6 76.6 114.8

145 32.6 25.4 38.2





#71

Naphthalene

Concen: 4.459 ug/L

RT: 13.438 min Scan# 3930

Delta R.T. 0.006 min

Lab File: VV036993.D

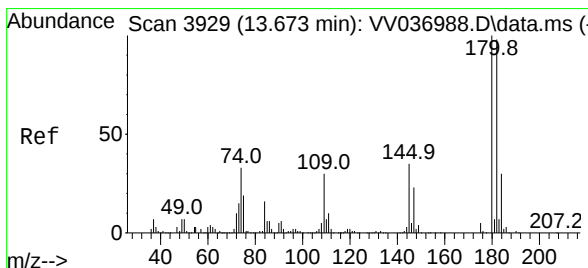
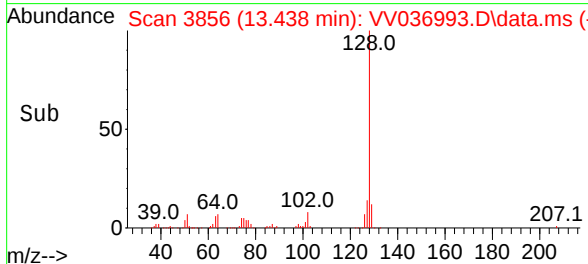
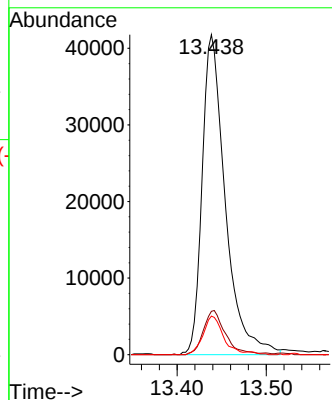
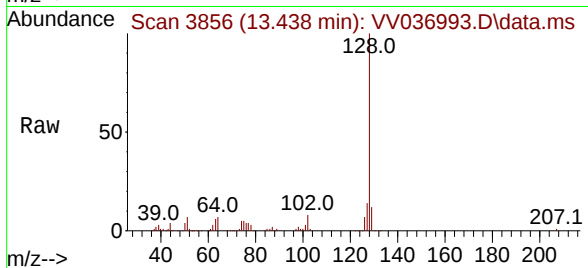
Acq: 21 Aug 2024 16:26

Instrument :

MSVOA\_V

ClientSampleId :

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:128 | Resp: | 75516     |
| Ion Ratio   | Lower | Upper     |
| 128         | 100   |           |
| 127         | 13.0  | 10.2 15.4 |
| 129         | 10.4  | 8.7 13.1  |



#72

1,2,3-Trichlorobenzene

Concen: 4.713 ug/L

RT: 13.676 min Scan# 3930

Delta R.T. 0.003 min

Lab File: VV036993.D

Acq: 21 Aug 2024 16:26

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 42678      |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 98.1  | 77.4 116.0 |
| 145         | 35.3  | 27.9 41.9  |

