

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW111922\  
 Data File : VW029160.D  
 Acq On : 19 Nov 2022 10:32  
 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA\_V/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD005358

Quant Time: Nov 19 21:31:48 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR111122WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Fri Nov 18 04:35:43 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.609  | 114   | 343574   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.844  | 117   | 320412   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.239 | 152   | 157933   | 5.000    | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.307  | 65    | 128055   | 6.114    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 122.200% |
| 7) Chloroethane-d5            | 1.568  | 69    | 97173    | 5.277    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 105.600% |
| 11) 1,1-Dichloroethene-d2     | 2.108  | 63    | 208154   | 5.453    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 109.000% |
| 20) 2-Butanone-d5             | 3.896  | 46    | 115266   | 32.874   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 65.740%  |
| 24) Chloroform-d              | 4.339  | 84    | 204478   | 4.755    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 95.000%  |
| 26) 1,2-Dichloroethane-d4     | 5.027  | 65    | 88093    | 4.553    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 91.000%  |
| 32) Benzene-d6                | 5.044  | 84    | 437309   | 4.573    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 91.400%  |
| 36) 1,2-Dichloropropane-d6    | 6.063  | 67    | 122362   | 4.582    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 91.600%  |
| 41) Toluene-d8                | 7.307  | 98    | 410565   | 4.769    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 95.400%  |
| 43) trans-1,3-Dichloroprop... | 7.616  | 79    | 39492    | 4.534    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 90.600%  |
| 46) 2-Hexanone-d5             | 8.085  | 63    | 172679   | 46.445   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 92.900%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.207 | 84    | 84013    | 4.537    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 90.800%  |
| 66) 1,2-Dichlorobenzene-d4    | 11.616 | 152   | 135250   | 4.787    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 95.800%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.131  | 85    | 130617   | 4.561    | ug/L   | 97       |
| 3) Chloromethane              | 1.240  | 50    | 116295   | 4.892    | ug/L   | 97       |
| 5) Vinyl chloride             | 1.311  | 62    | 130499   | 4.813    | ug/L   | 99       |
| 6) Bromomethane               | 1.523  | 94    | 68567    | 4.231    | ug/L   | 96       |
| 8) Chloroethane               | 1.584  | 64    | 80845    | 5.074    | ug/L   | 99       |
| 9) Trichlorofluoromethane     | 1.751  | 101   | 178402   | 4.880    | ug/L   | 100      |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.114  | 101   | 103171   | 4.984    | ug/L   | 99       |
| 12) 1,1-Dichloroethene        | 2.118  | 96    | 103851   | 4.993    | ug/L   | 93       |
| 13) Acetone                   | 2.182  | 43    | 62871    | 27.875   | ug/L   | 86       |
| 14) Carbon disulfide          | 2.291  | 76    | 298210   | 4.038    | ug/L   | 100      |
| 15) Methyl Acetate            | 2.436  | 43    | 24100    | 4.403    | ug/L   | 93       |
| 16) Methylene chloride        | 2.503  | 84    | 128541   | 4.780    | ug/L   | 98       |
| 17) Methyl tert-butyl Ether   | 2.764  | 73    | 211341   | 4.740    | ug/L   | 98       |
| 18) trans-1,2-Dichloroethene  | 2.757  | 96    | 112628   | 4.669    | ug/L   | 98       |
| 19) 1,1-Dichloroethane        | 3.185  | 63    | 191968   | 4.868    | ug/L   | 98       |
| 21) 2-Butanone                | 3.979  | 43    | 120406   | 34.481   | ug/L   | 97       |
| 22) cis-1,2-Dichloroethene    | 3.905  | 96    | 116282   | 4.742    | ug/L   | 97       |
| 23) Bromochloromethane        | 4.243  | 128   | 49847    | 4.806    | ug/L   | 93       |
| 25) Chloroform                | 4.365  | 83    | 202637   | 4.902    | ug/L   | 96       |

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 Acq On : 19 Nov 2022 10:32  
 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA\_V/WATER  
 ALS Vial : 2 Sample Multiplier: 1

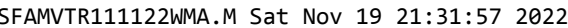
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD005358

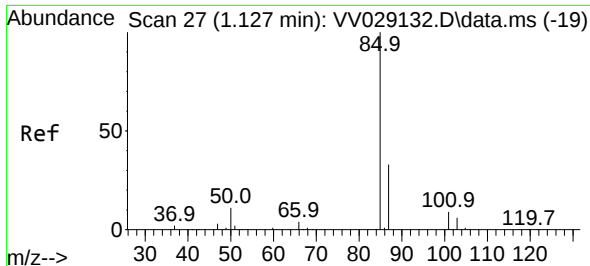
Quant Time: Nov 19 21:31:48 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR111122WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Fri Nov 18 04:35:43 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 27) 1,2-Dichloroethane        | 5.124  | 62   | 103779   | 4.874  | ug/L   | 100      |
| 29) 1,1,1-Trichloroethane     | 4.600  | 97   | 171230   | 4.554  | ug/L   | 98       |
| 30) Cyclohexane               | 4.671  | 56   | 175864   | 4.602  | ug/L   | 97       |
| 31) Carbon tetrachloride      | 4.822  | 117  | 141523   | 4.371  | ug/L   | 100      |
| 33) Benzene                   | 5.092  | 78   | 453246   | 4.629  | ug/L   | 100      |
| 34) Trichloroethene           | 5.908  | 95   | 114663   | 4.574  | ug/L   | 98       |
| 35) Methylcyclohexane         | 6.124  | 83   | 191008   | 4.336  | ug/L   | 98       |
| 37) 1,2-Dichloropropane       | 6.166  | 63   | 106386   | 4.712  | ug/L   | 100      |
| 38) Bromodichloromethane      | 6.503  | 83   | 126032   | 4.408  | ug/L   | 98       |
| 39) cis-1,3-Dichloropropene   | 7.021  | 75   | 137105   | 4.350  | ug/L   | 99       |
| 40) 4-Methyl-2-pentanone      | 7.220  | 43   | 511419   | 52.645 | ug/L   | 92       |
| 42) Toluene                   | 7.381  | 91   | 492278   | 4.654  | ug/L   | 100      |
| 44) trans-1,3-Dichloropropene | 7.645  | 75   | 102649   | 4.195  | ug/L   | 99       |
| 45) 1,1,2-Trichloroethane     | 7.831  | 97   | 76415    | 5.170  | ug/L   | 99       |
| 47) Tetrachloroethene         | 7.969  | 164  | 95225    | 4.744  | ug/L   | 95       |
| 48) 2-Hexanone                | 8.137  | 43   | 359524   | 52.834 | ug/L   | 98       |
| 49) Dibromochloromethane      | 8.240  | 129  | 81164    | 4.542  | ug/L   | 100      |
| 50) 1,2-Dibromoethane         | 8.346  | 107  | 69706    | 5.076  | ug/L # | 98       |
| 51) Chlorobenzene             | 8.873  | 112  | 316379   | 4.837  | ug/L   | 99       |
| 52) Ethylbenzene              | 9.005  | 91   | 524095   | 4.759  | ug/L   | 100      |
| 53) m,p-Xylene                | 9.130  | 106  | 207475   | 4.737  | ug/L   | 99       |
| 54) o-Xylene                  | 9.535  | 106  | 204760   | 4.918  | ug/L   | 99       |
| 55) Styrene                   | 9.555  | 104  | 345563   | 4.948  | ug/L   | 97       |
| 57) 1,1,2,2-Tetrachloroethane | 10.233 | 83   | 84154    | 4.885  | ug/L   | 99       |
| 59) Bromoform                 | 9.725  | 173  | 40404    | 4.693  | ug/L   | 97       |
| 60) Isopropylbenzene          | 9.924  | 105  | 515965   | 5.033  | ug/L   | 100      |
| 61) 1,2,3-Trichloropropane    | 10.265 | 75   | 57940    | 5.368  | ug/L   | 99       |
| 62) 1,3,5-Trimethylbenzene    | 10.529 | 105  | 425541   | 4.900  | ug/L   | 100      |
| 63) 1,2,4-Trimethylbenzene    | 10.905 | 105  | 427923   | 4.919  | ug/L   | 99       |
| 64) 1,3-Dichlorobenzene       | 11.172 | 146  | 238210   | 4.946  | ug/L   | 99       |
| 65) 1,4-Dichlorobenzene       | 11.265 | 146  | 238934   | 4.934  | ug/L   | 98       |
| 67) 1,2-Dichlorobenzene       | 11.635 | 146  | 216354   | 4.999  | ug/L   | 97       |
| 68) 1,2-Dibromo-3-chloropr... | 12.419 | 75   | 9481     | 4.465  | ug/L   | 90       |
| 69) 1,3,5-Trichlorobenzene    | 12.635 | 180  | 176270   | 4.744  | ug/L   | 100      |
| 70) 1,2,4-trichlorobenzene    | 13.252 | 180  | 132832   | 4.726  | ug/L   | 98       |
| 71) Naphthalene               | 13.493 | 128  | 160272   | 4.419  | ug/L   | 99       |
| 72) 1,2,3-Trichlorobenzene    | 13.731 | 180  | 115348   | 4.845  | ug/L   | 99       |

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

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QLast Update : Fri Nov 18 04:35:43 2022  
Response via : Initial Calibration

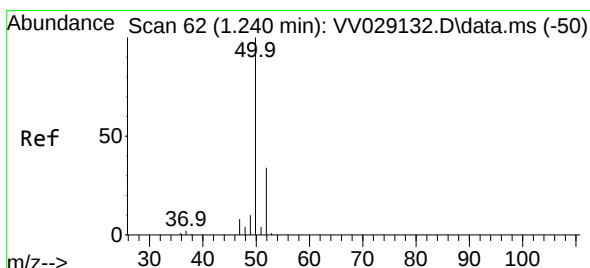
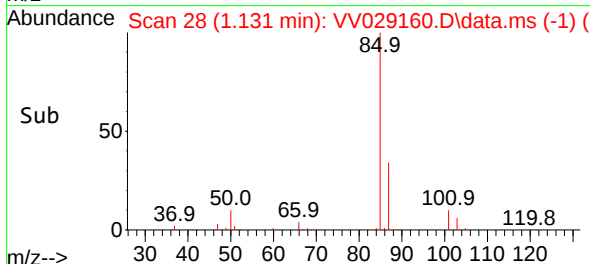
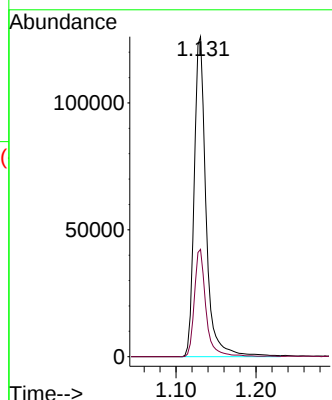
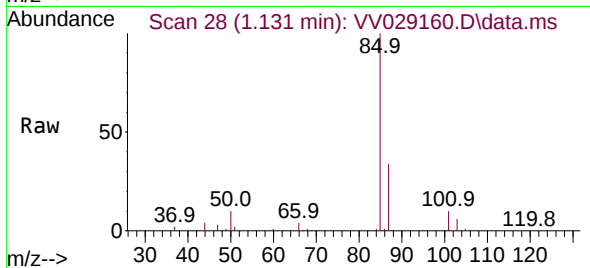




#2  
 Dichlorodifluoromethane  
 Concen: 4.561 ug/L  
 RT: 1.131 min Scan# 27  
 Delta R.T. 0.000 min  
 Lab File: VV029160.D  
 Acq: 19 Nov 2022 10:32

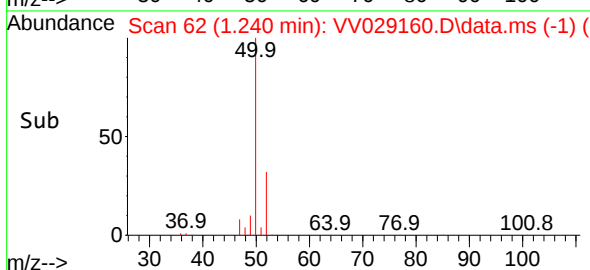
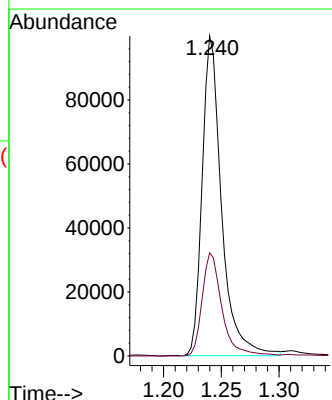
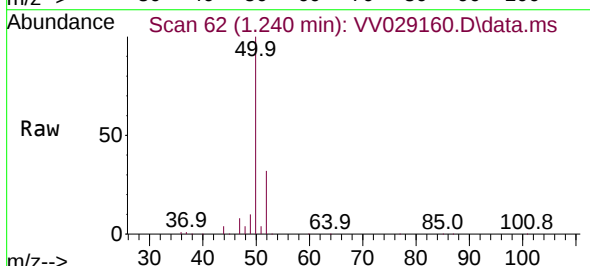
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD005358

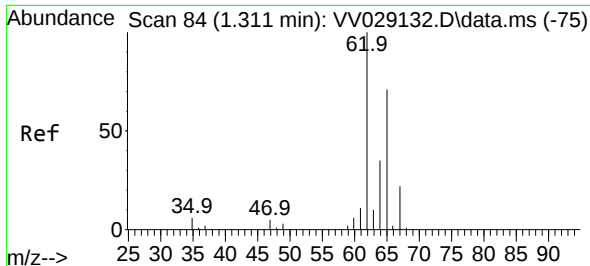
Tgt Ion: 85 Resp: 130617  
 Ion Ratio Lower Upper  
 85 100  
 87 32.9 25.0 37.4



#3  
 Chloromethane  
 Concen: 4.892 ug/L  
 RT: 1.240 min Scan# 62  
 Delta R.T. 0.000 min  
 Lab File: VV029160.D  
 Acq: 19 Nov 2022 10:32

Tgt Ion: 50 Resp: 116295  
 Ion Ratio Lower Upper  
 50 100  
 52 32.3 23.7 43.9

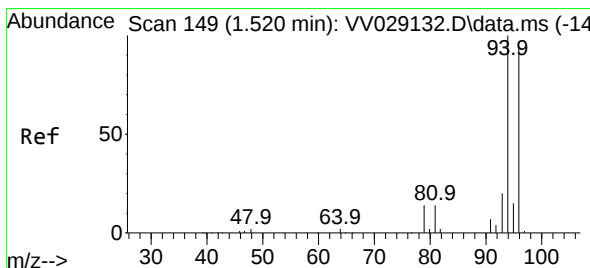
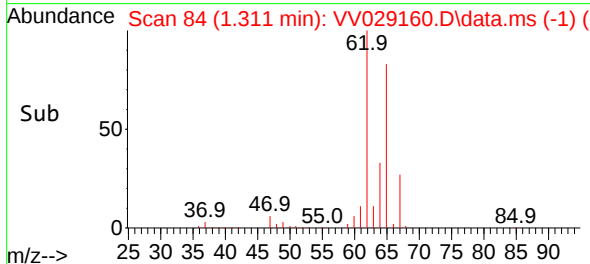
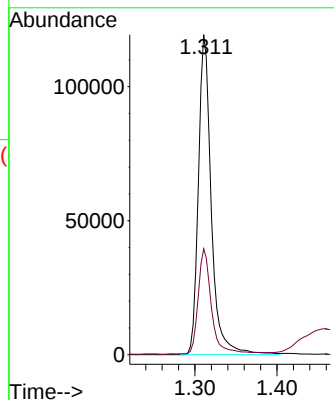
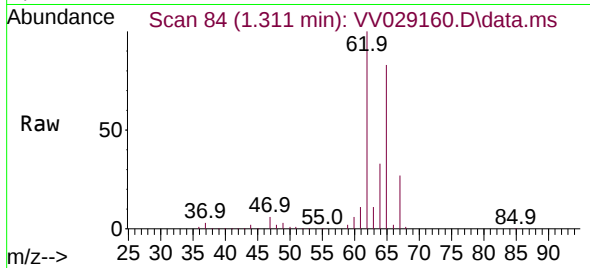




#5  
 Vinyl chloride  
 Concen: 4.813 ug/L  
 RT: 1.311 min Scan# 84  
 Delta R.T. 0.000 min  
 Lab File: VV029160.D  
 Acq: 19 Nov 2022 10:32

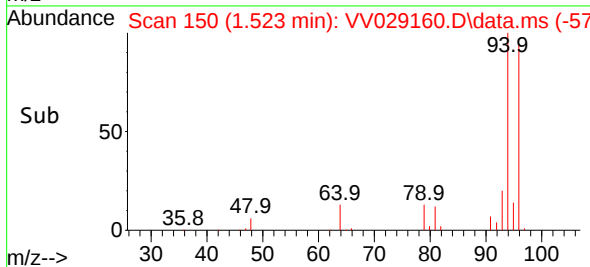
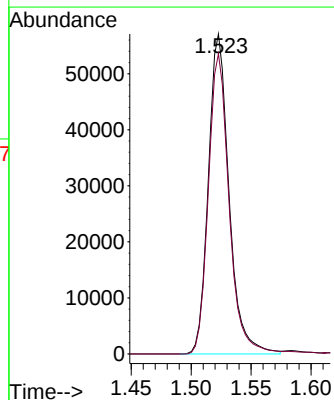
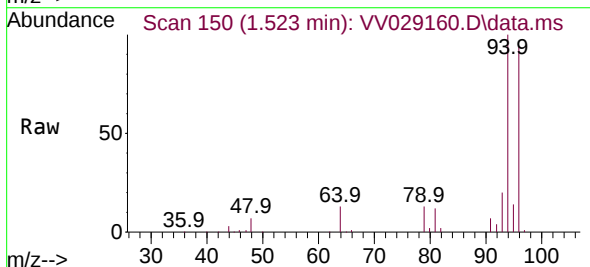
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD005358

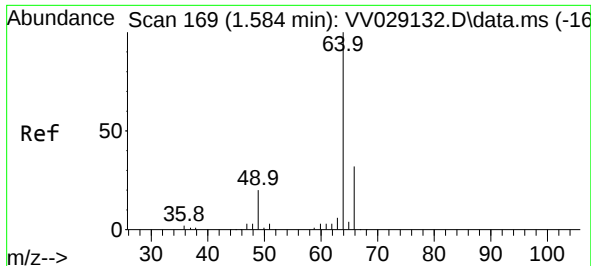
Tgt Ion: 62 Resp: 130499  
 Ion Ratio Lower Upper  
 62 100  
 64 33.1 22.8 42.4



#6  
 Bromomethane  
 Concen: 4.231 ug/L  
 RT: 1.523 min Scan# 150  
 Delta R.T. 0.000 min  
 Lab File: VV029160.D  
 Acq: 19 Nov 2022 10:32

Tgt Ion: 94 Resp: 68567  
 Ion Ratio Lower Upper  
 94 100  
 96 93.8 68.5 127.3

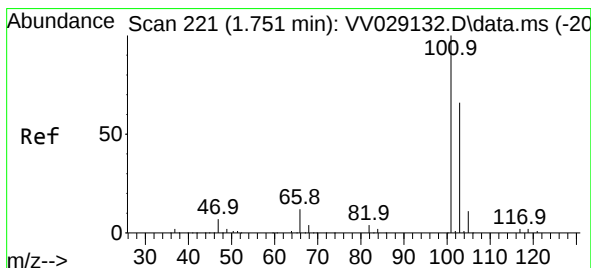
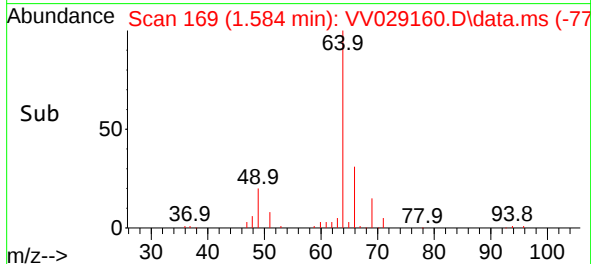
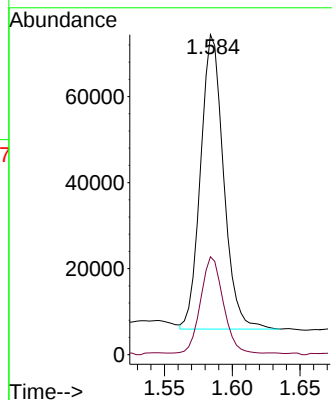
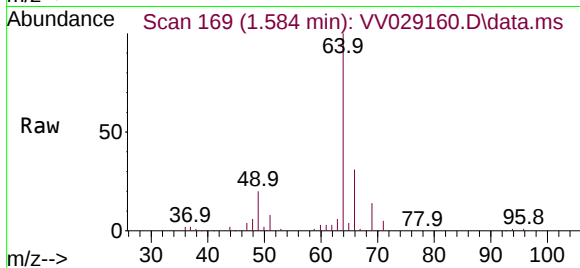




#8  
Chloroethane  
Concen: 5.074 ug/L  
RT: 1.584 min Scan# 169  
Delta R.T. -0.003 min  
Lab File: VV029160.D  
Acq: 19 Nov 2022 10:32

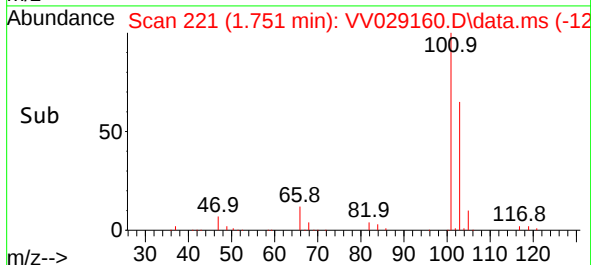
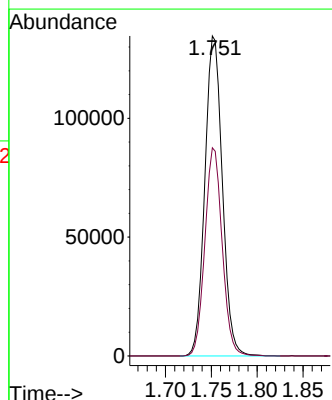
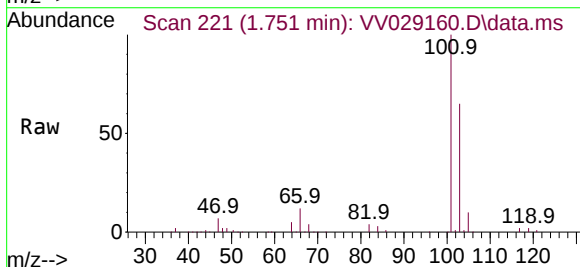
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD005358

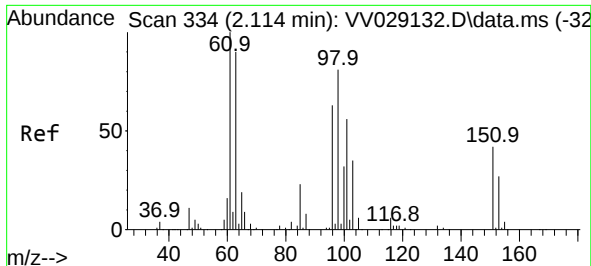
Tgt Ion: 64 Resp: 80845  
Ion Ratio Lower Upper  
64 100  
66 30.6 22.0 40.8



#9  
Trichlorofluoromethane  
Concen: 4.880 ug/L  
RT: 1.751 min Scan# 221  
Delta R.T. -0.003 min  
Lab File: VV029160.D  
Acq: 19 Nov 2022 10:32

Tgt Ion:101 Resp: 178402  
Ion Ratio Lower Upper  
101 100  
103 64.3 51.3 76.9





#10

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

Concen: 4.984 ug/L

RT: 2.114 min Scan# 334

Delta R.T. -0.003 min

Lab File: VV029160.D

Acq: 19 Nov 2022 10:32

Instrument :

MSVOA\_V

ClientSampleId :

VSTD005358

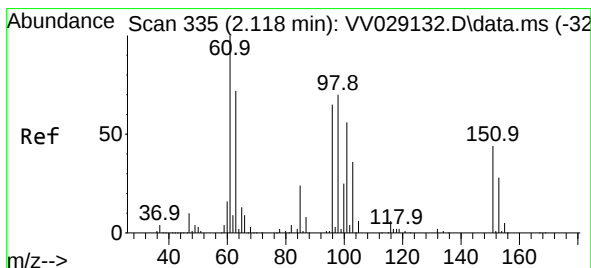
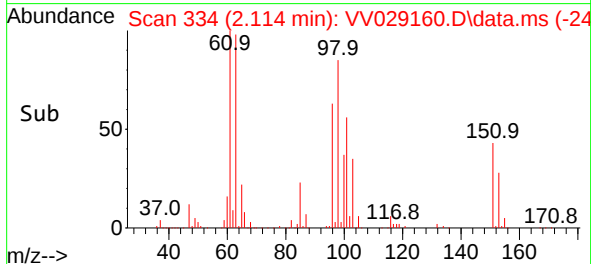
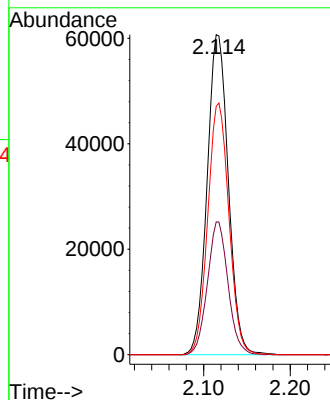
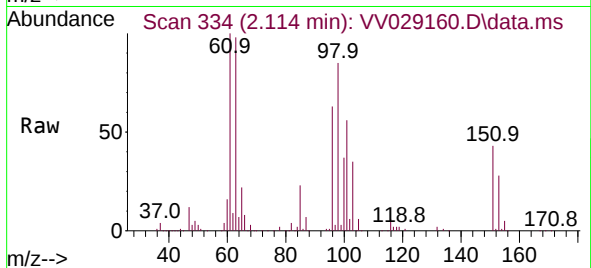
Tgt Ion:101 Resp: 103171

Ion Ratio Lower Upper

101 100

85 40.4 32.9 49.3

151 78.6 62.5 93.7



#12

1,1-Dichloroethene

Concen: 4.993 ug/L

RT: 2.118 min Scan# 335

Delta R.T. -0.003 min

Lab File: VV029160.D

Acq: 19 Nov 2022 10:32

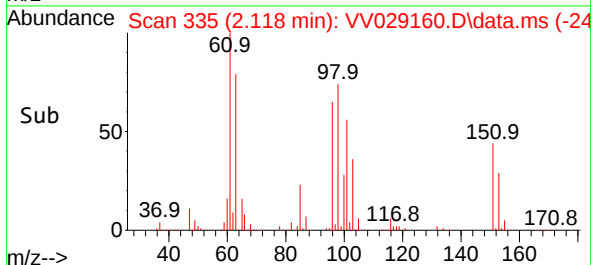
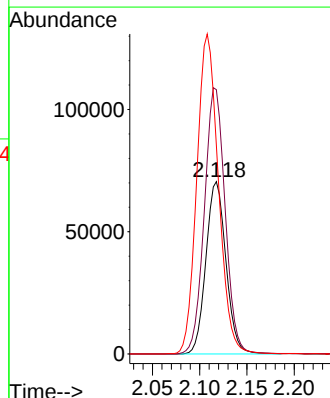
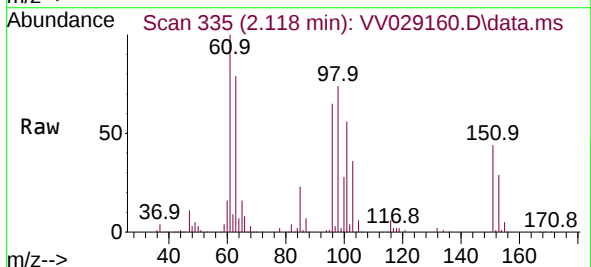
Tgt Ion: 96 Resp: 103851

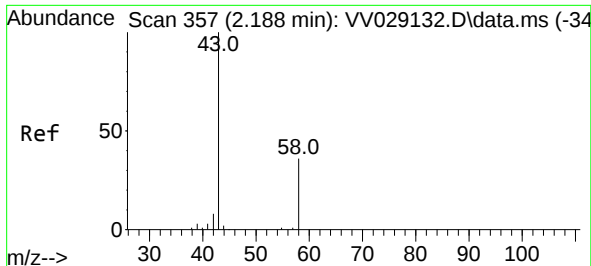
Ion Ratio Lower Upper

96 100

61 153.4 104.2 193.4

63 121.2 75.9 140.9





#13

Acetone

Concen: 27.875 ug/L

RT: 2.182 min Scan# 3

Delta R.T. -0.006 min

Lab File: VV029160.D

Acq: 19 Nov 2022 10:32

Instrument :

MSVOA\_V

ClientSampleId :

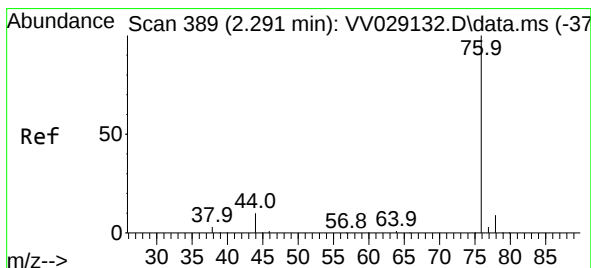
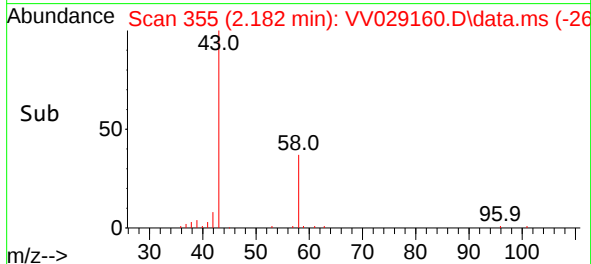
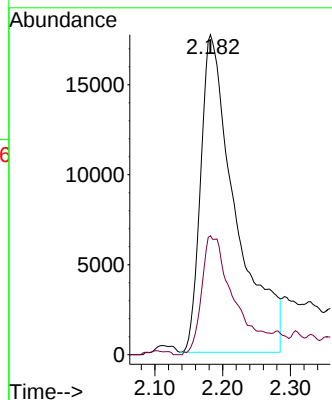
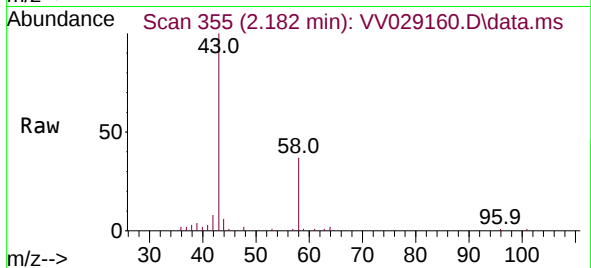
VSTD005358

Tgt Ion: 43 Resp: 62871

Ion Ratio Lower Upper

43 100

58 35.5 0.0 56.6



#14

Carbon disulfide

Concen: 4.038 ug/L

RT: 2.291 min Scan# 389

Delta R.T. -0.003 min

Lab File: VV029160.D

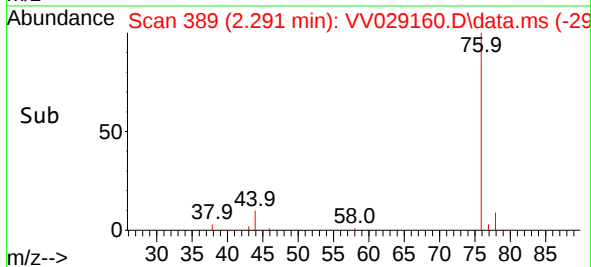
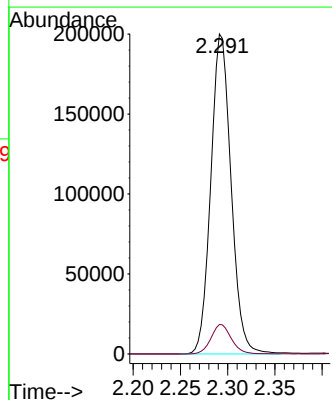
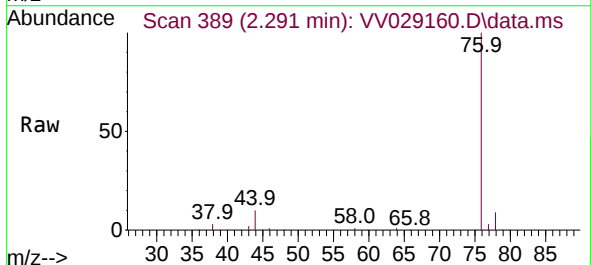
Acq: 19 Nov 2022 10:32

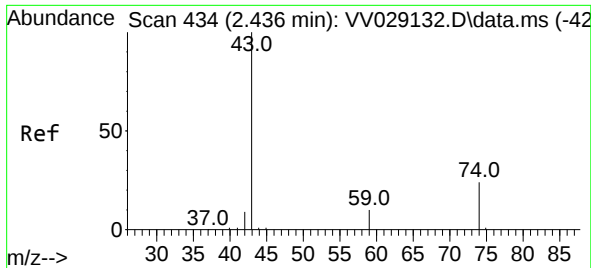
Tgt Ion: 76 Resp: 298210

Ion Ratio Lower Upper

76 100

78 9.2 7.4 11.2

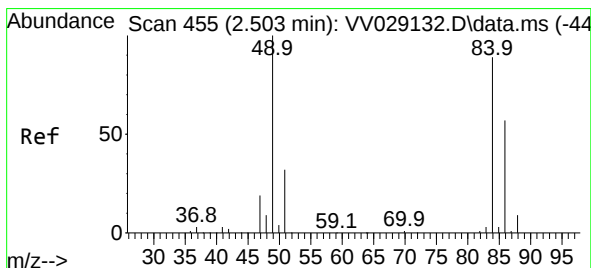
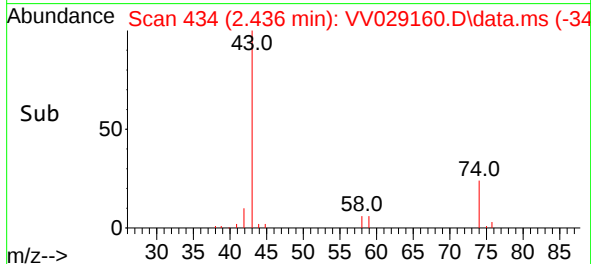
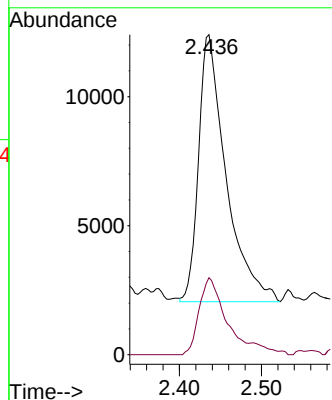
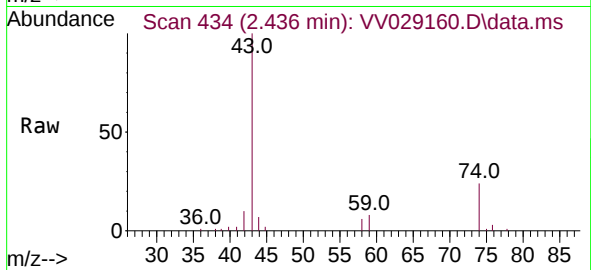




#15  
Methyl Acetate  
Concen: 4.403 ug/L  
RT: 2.436 min Scan# 41  
Delta R.T. -0.003 min  
Lab File: VV029160.D  
Acq: 19 Nov 2022 10:32

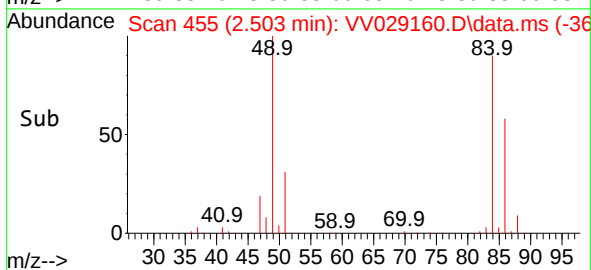
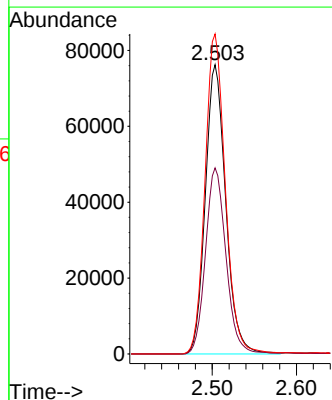
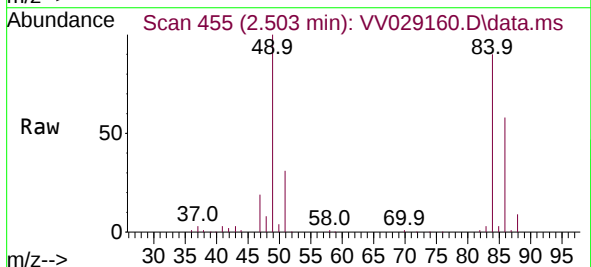
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD005358

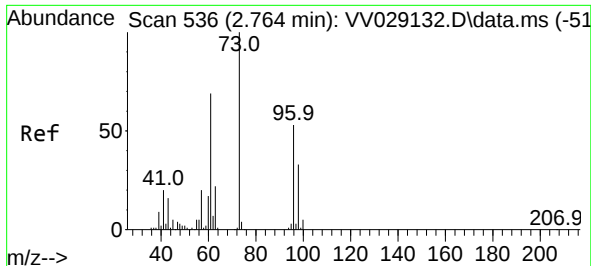
Tgt Ion: 43 Resp: 24100  
Ion Ratio Lower Upper  
43 100  
74 27.1 24.6 37.0



#16  
Methylene chloride  
Concen: 4.780 ug/L  
RT: 2.503 min Scan# 455  
Delta R.T. -0.003 min  
Lab File: VV029160.D  
Acq: 19 Nov 2022 10:32

Tgt Ion: 84 Resp: 128541  
Ion Ratio Lower Upper  
84 100  
86 64.3 45.8 85.0  
49 110.6 75.5 140.1

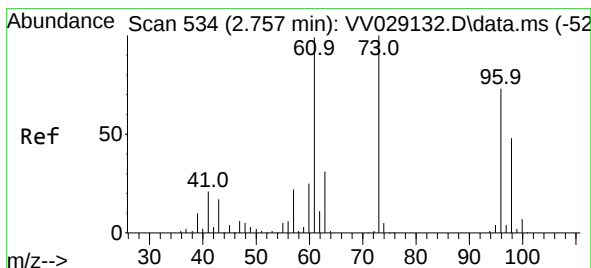
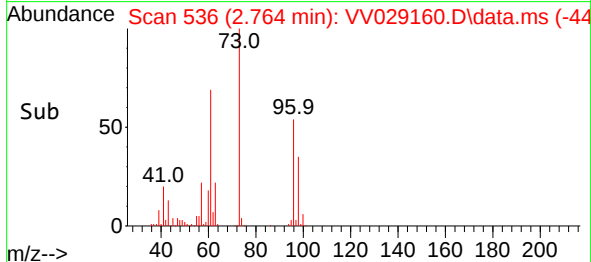
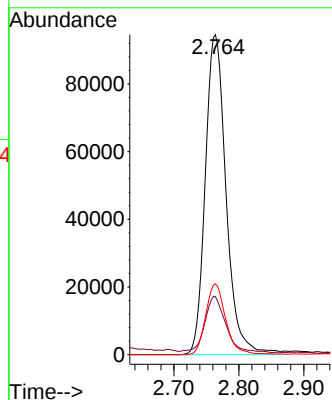
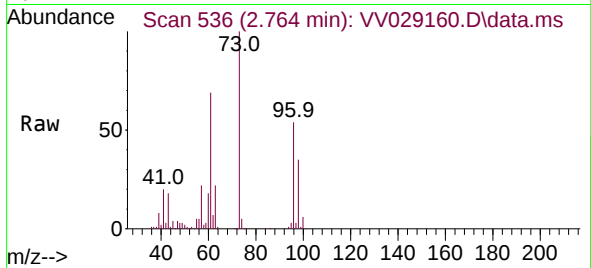




#17  
Methyl tert-butyl Ether  
Concen: 4.740 ug/L  
RT: 2.764 min Scan# 51  
Delta R.T. -0.003 min  
Lab File: VV029160.D  
Acq: 19 Nov 2022 10:32

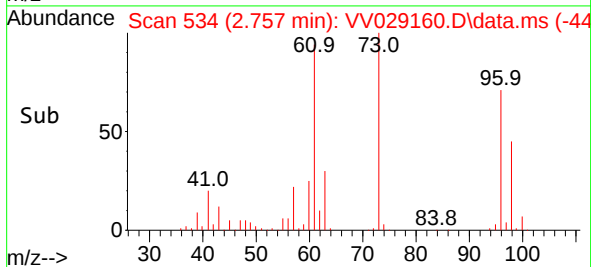
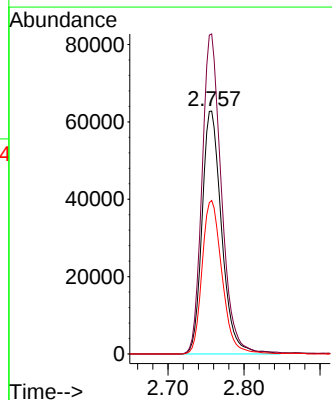
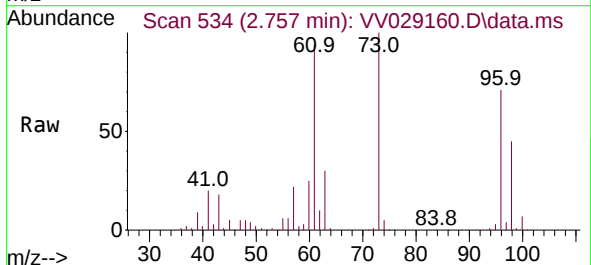
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD005358

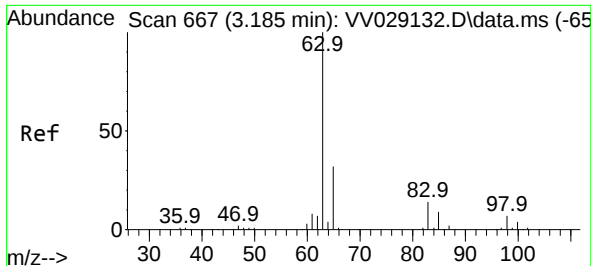
Tgt Ion: 73 Resp: 211341  
Ion Ratio Lower Upper  
73 100  
43 17.7 13.0 19.4  
57 21.3 16.6 24.8



#18  
trans-1,2-Dichloroethene  
Concen: 4.669 ug/L  
RT: 2.757 min Scan# 534  
Delta R.T. -0.003 min  
Lab File: VV029160.D  
Acq: 19 Nov 2022 10:32

Tgt Ion: 96 Resp: 112628  
Ion Ratio Lower Upper  
96 100  
61 131.7 91.8 170.6  
98 63.2 46.4 86.2





#19

1,1-Dichloroethane

Concen: 4.868 ug/L

RT: 3.185 min Scan# 6

Delta R.T. -0.003 min

Lab File: VV029160.D

Acq: 19 Nov 2022 10:32

Instrument :

MSVOA\_V

ClientSampleId :

VSTD005358

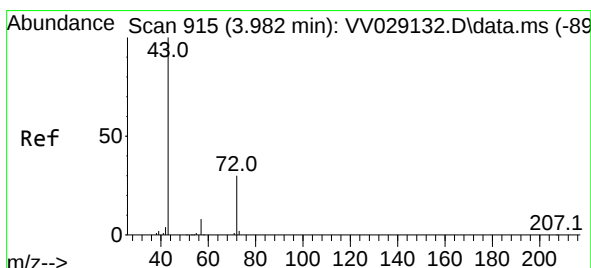
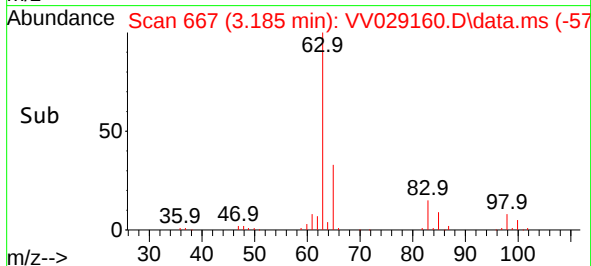
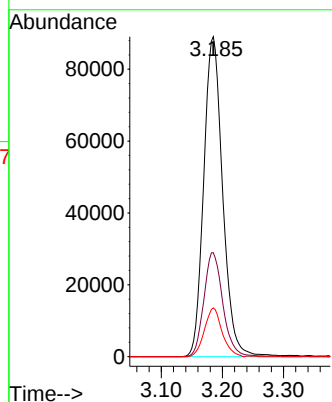
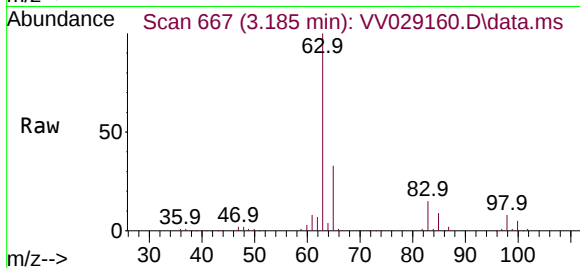
Tgt Ion: 63 Resp: 191968

Ion Ratio Lower Upper

63 100

65 32.5 23.0 42.6

83 15.2 9.4 17.6



#21

2-Butanone

Concen: 34.481 ug/L

RT: 3.979 min Scan# 914

Delta R.T. -0.006 min

Lab File: VV029160.D

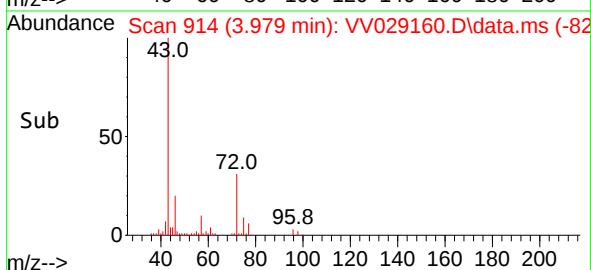
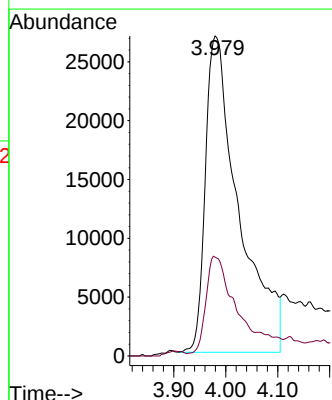
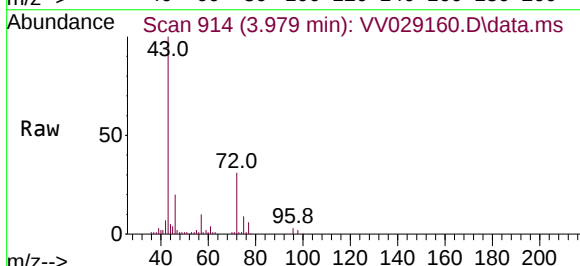
Acq: 19 Nov 2022 10:32

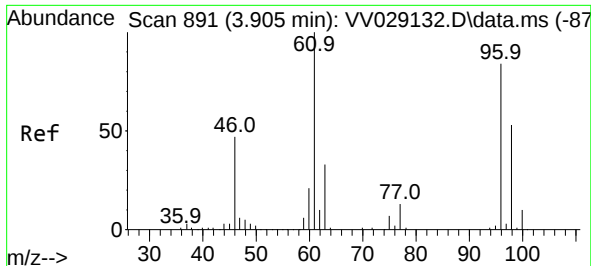
Tgt Ion: 43 Resp: 120406

Ion Ratio Lower Upper

43 100

72 25.6 11.9 35.9

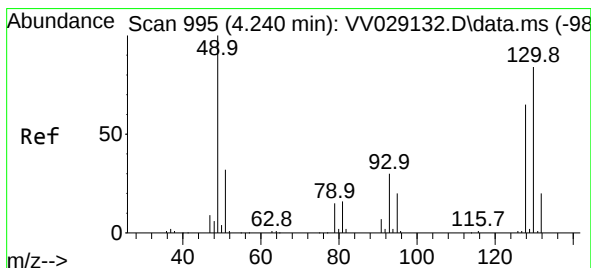
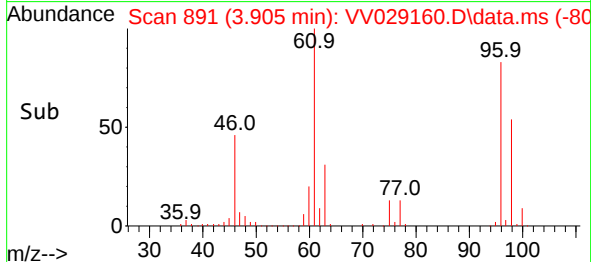
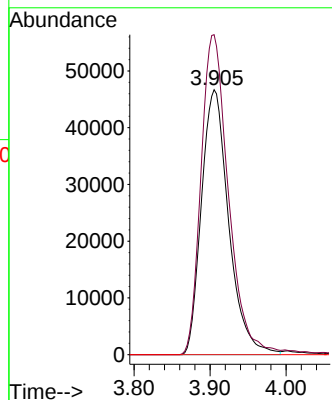
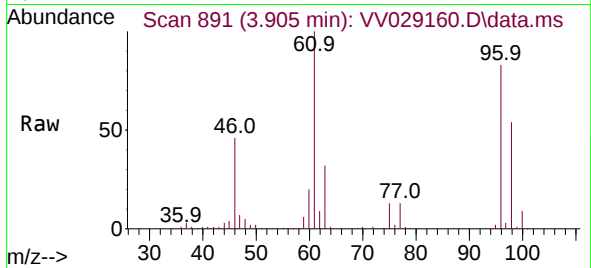




#22  
 cis-1,2-Dichloroethene  
 Concen: 4.742 ug/L  
 RT: 3.905 min Scan# 891  
 Delta R.T. -0.006 min  
 Lab File: VV029160.D  
 Acq: 19 Nov 2022 10:32

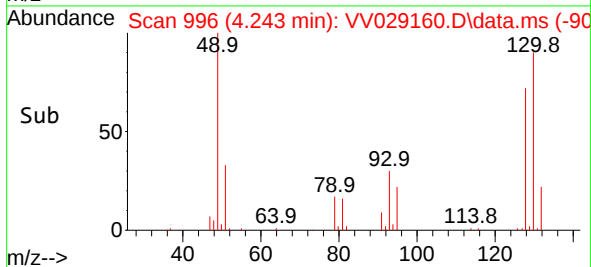
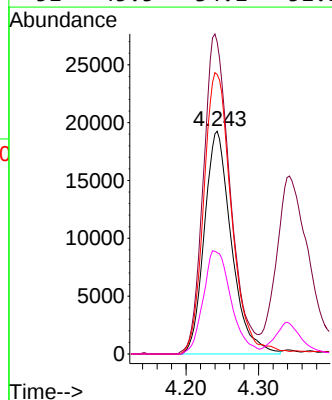
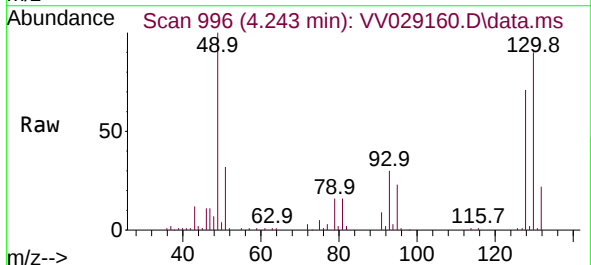
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD005358

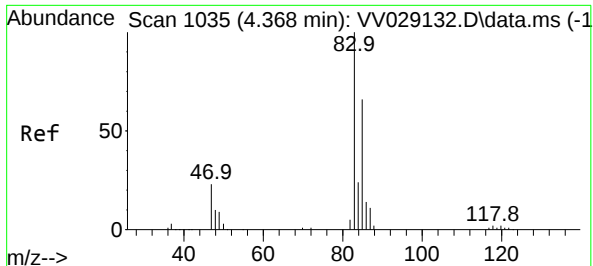
Tgt Ion: 96 Resp: 116282  
 Ion Ratio Lower Upper  
 96 100  
 61 120.8 82.3 152.9  
 68 0.0 0.0 0.0



#23  
 Bromochloromethane  
 Concen: 4.806 ug/L  
 RT: 4.243 min Scan# 996  
 Delta R.T. -0.003 min  
 Lab File: VV029160.D  
 Acq: 19 Nov 2022 10:32

Tgt Ion: 128 Resp: 49847  
 Ion Ratio Lower Upper  
 128 100  
 49 140.1 89.5 166.1  
 130 125.5 84.4 156.8  
 51 45.5 34.1 51.1





#25

Chloroform

Concen: 4.902 ug/L

RT: 4.365 min Scan# 1

Delta R.T. -0.010 min

Lab File: VV029160.D

Acq: 19 Nov 2022 10:32

Instrument :

MSVOA\_V

ClientSampleId :

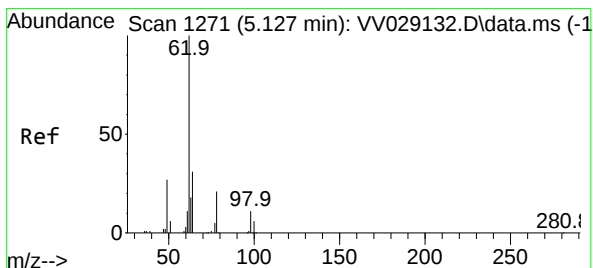
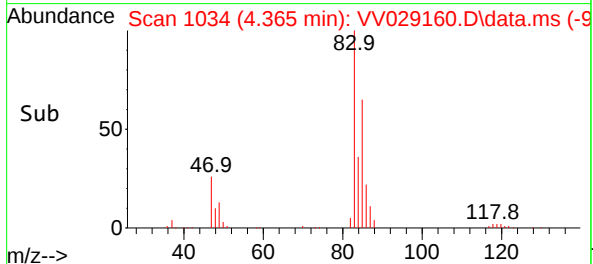
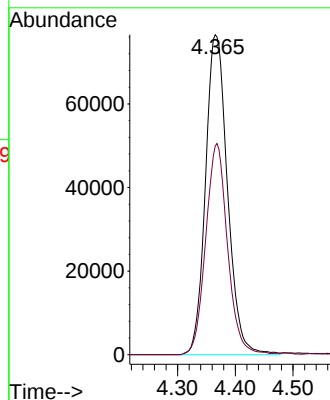
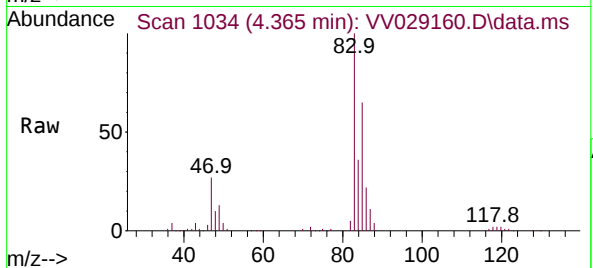
VSTD005358

Tgt Ion: 83 Resp: 202637

Ion Ratio Lower Upper

83 100

85 65.3 43.7 81.1



#27

1,2-Dichloroethane

Concen: 4.874 ug/L

RT: 5.124 min Scan# 1270

Delta R.T. -0.010 min

Lab File: VV029160.D

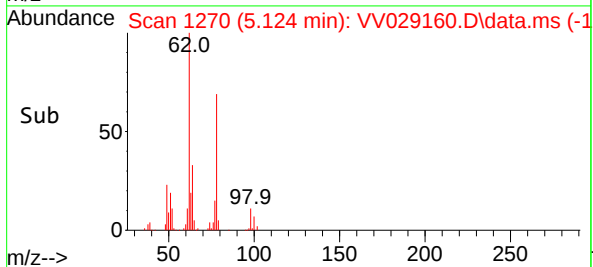
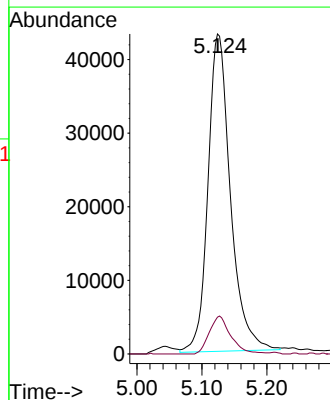
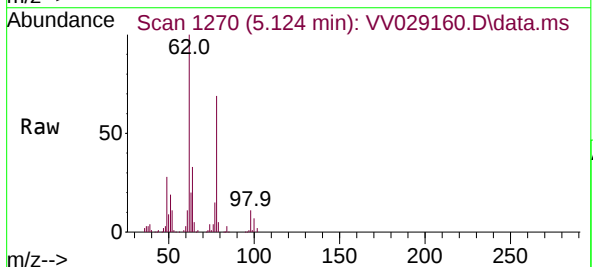
Acq: 19 Nov 2022 10:32

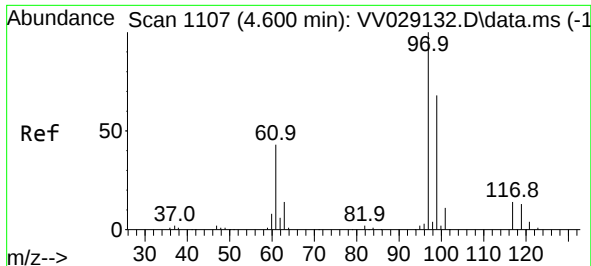
Tgt Ion: 62 Resp: 103779

Ion Ratio Lower Upper

62 100

98 11.5 9.0 13.6





#29

1,1,1-Trichloroethane

Concen: 4.554 ug/L

RT: 4.600 min Scan# 1107

Delta R.T. -0.006 min

Lab File: VV029160.D

Acq: 19 Nov 2022 10:32

Instrument :

MSVOA\_V

ClientSampleId :

VSTD005358

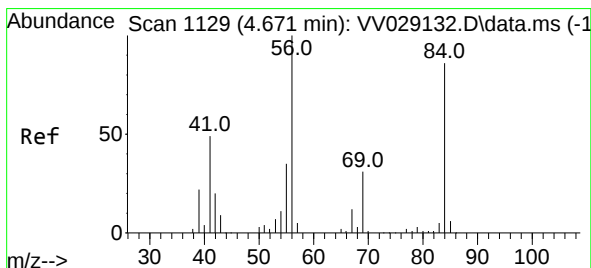
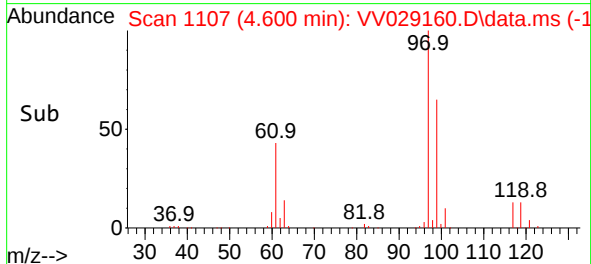
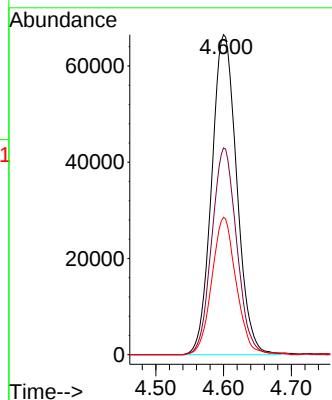
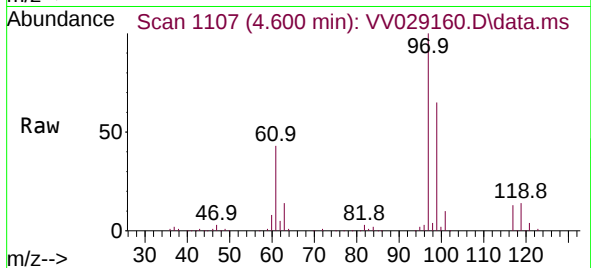
Tgt Ion: 97 Resp: 171230

Ion Ratio Lower Upper

97 100

99 64.2 52.7 79.1

61 41.5 33.8 50.6



#30

Cyclohexane

Concen: 4.602 ug/L

RT: 4.671 min Scan# 1129

Delta R.T. -0.006 min

Lab File: VV029160.D

Acq: 19 Nov 2022 10:32

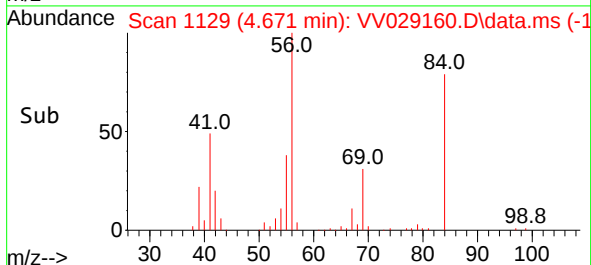
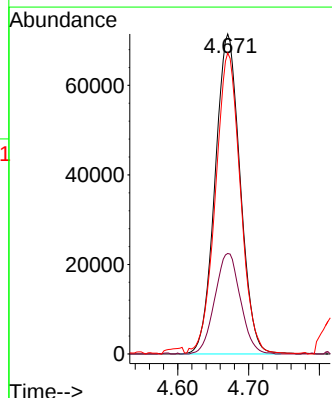
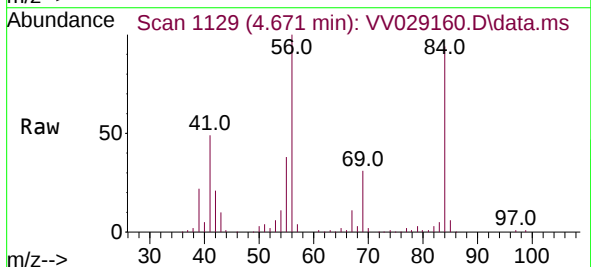
Tgt Ion: 56 Resp: 175864

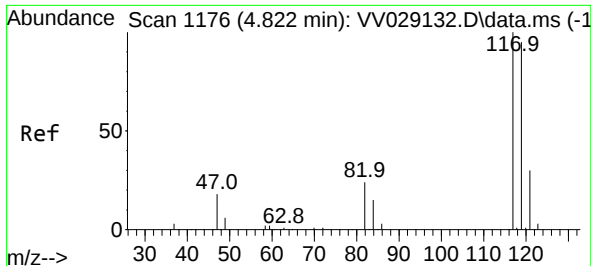
Ion Ratio Lower Upper

56 100

69 32.1 26.1 39.1

84 93.5 77.9 116.9

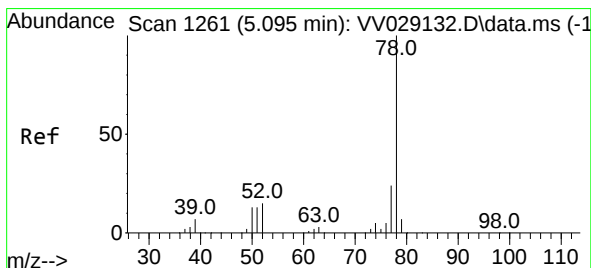
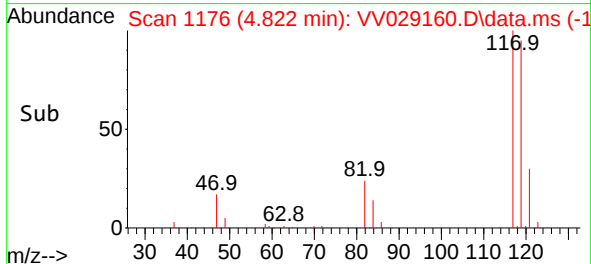
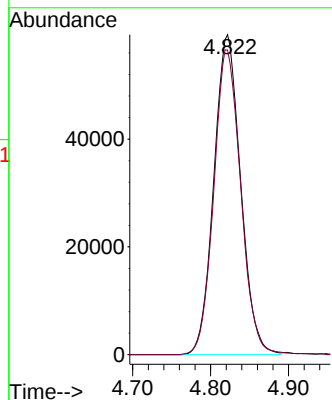
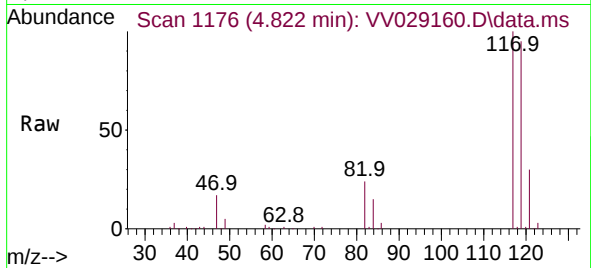




#31  
Carbon tetrachloride  
Concen: 4.371 ug/L  
RT: 4.822 min Scan# 1176  
Delta R.T. -0.006 min  
Lab File: VV029160.D  
Acq: 19 Nov 2022 10:32

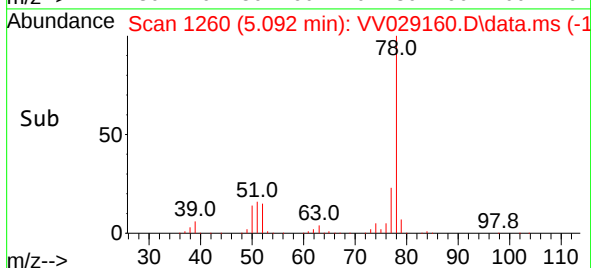
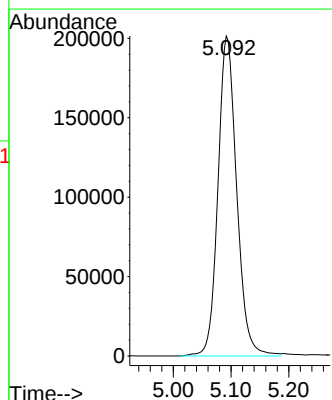
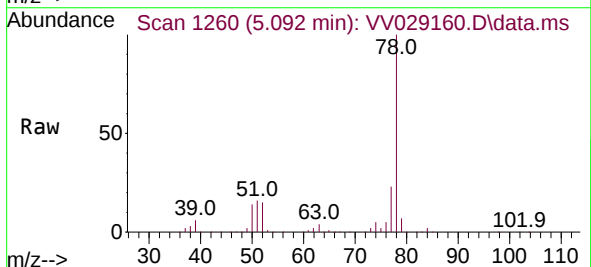
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD005358

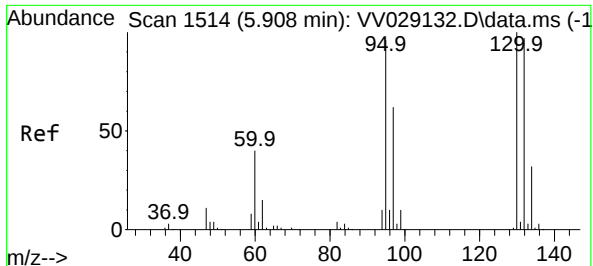
Tgt Ion:117 Resp: 141523  
Ion Ratio Lower Upper  
117 100  
119 96.1 77.0 115.6



#33  
Benzene  
Concen: 4.629 ug/L  
RT: 5.092 min Scan# 1260  
Delta R.T. -0.006 min  
Lab File: VV029160.D  
Acq: 19 Nov 2022 10:32

Tgt Ion: 78 Resp: 453246

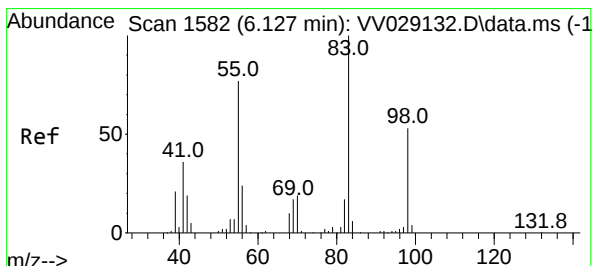
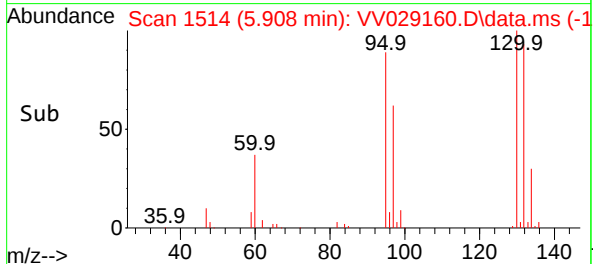
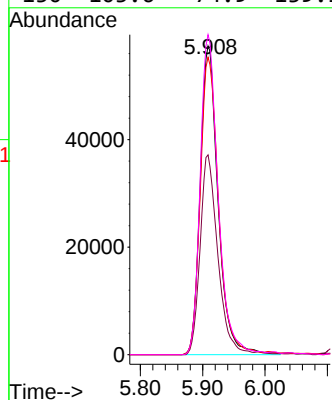
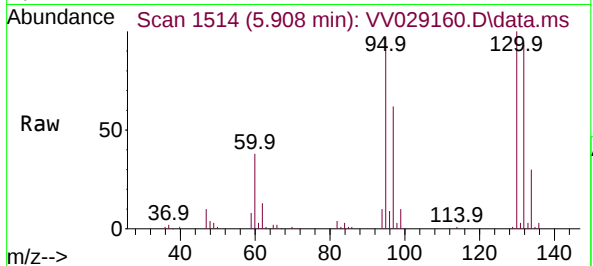




#34  
Trichloroethene  
Concen: 4.574 ug/L  
RT: 5.908 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VV029160.D  
Acq: 19 Nov 2022 10:32

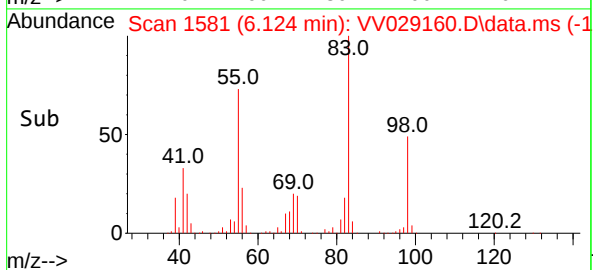
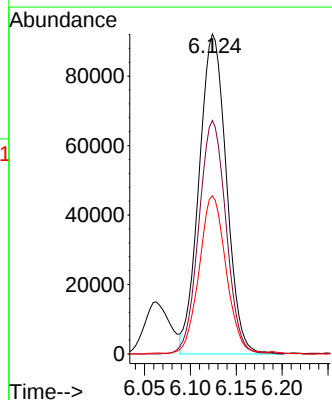
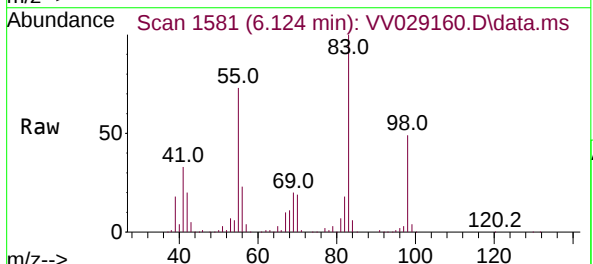
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD005358

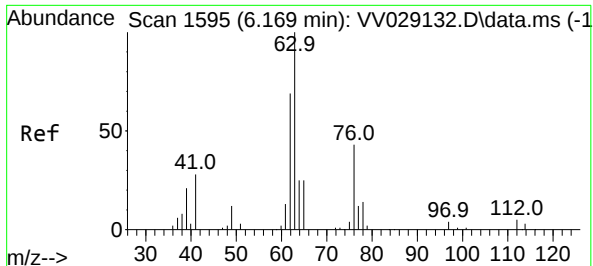
Tgt Ion: 95 Resp: 114663  
Ion Ratio Lower Upper  
95 100  
97 64.7 45.6 84.8  
132 96.3 69.1 128.3  
130 103.6 74.9 139.1



#35  
Methylcyclohexane  
Concen: 4.336 ug/L  
RT: 6.124 min Scan# 1581  
Delta R.T. -0.006 min  
Lab File: VV029160.D  
Acq: 19 Nov 2022 10:32

Tgt Ion: 83 Resp: 191008  
Ion Ratio Lower Upper  
83 100  
55 72.6 55.8 83.6  
98 48.2 38.2 57.2





#37

1,2-Dichloropropane

Concen: 4.712 ug/L

RT: 6.166 min Scan# 1595

Delta R.T. -0.006 min

Lab File: VV029160.D

Acq: 19 Nov 2022 10:32

Instrument :

MSVOA\_V

ClientSampleId :

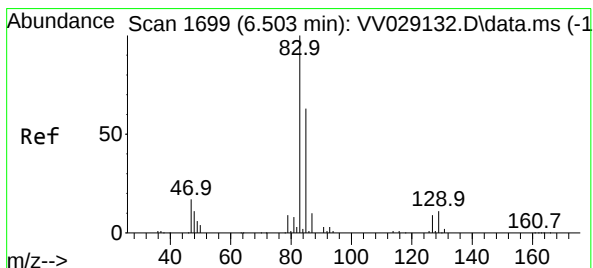
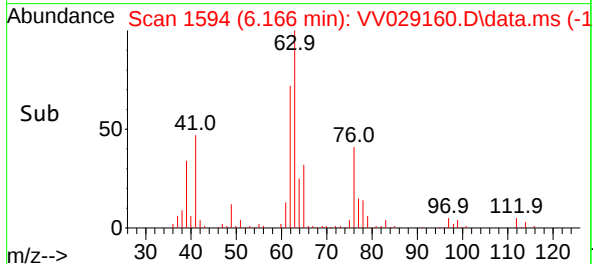
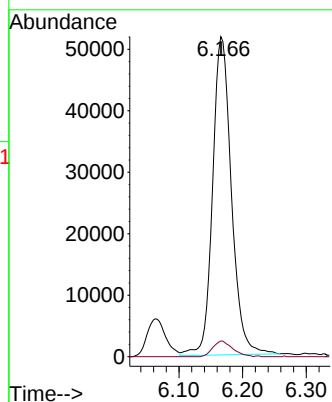
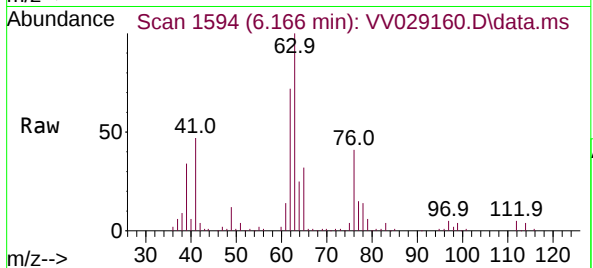
VSTD005358

Tgt Ion: 63 Resp: 106386

Ion Ratio Lower Upper

63 100

112 5.2 4.0 6.0



#38

Bromodichloromethane

Concen: 4.408 ug/L

RT: 6.503 min Scan# 1699

Delta R.T. -0.003 min

Lab File: VV029160.D

Acq: 19 Nov 2022 10:32

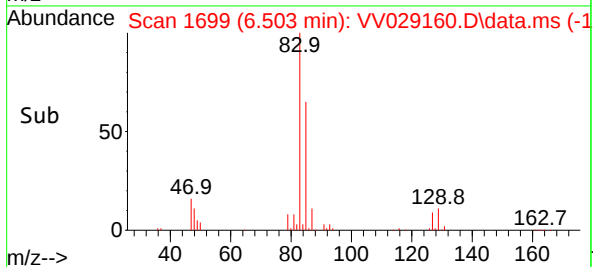
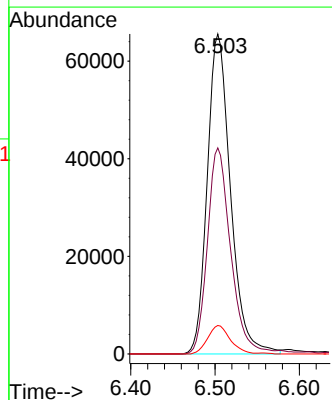
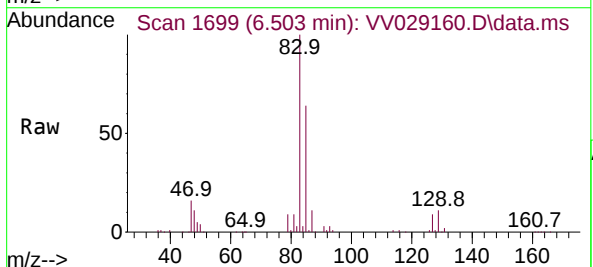
Tgt Ion: 83 Resp: 126032

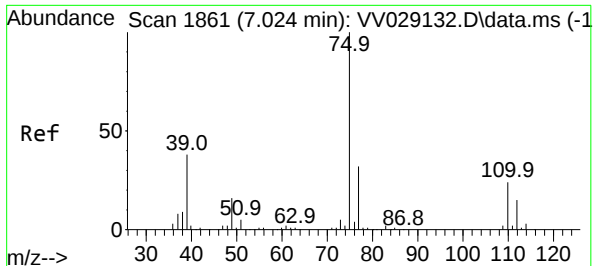
Ion Ratio Lower Upper

83 100

85 64.4 46.1 85.5

127 8.9 6.7 10.1





#39

cis-1,3-Dichloropropene

Concen: 4.350 ug/L

RT: 7.021 min Scan# 1860

Delta R.T. -0.006 min

Lab File: VV029160.D

Acq: 19 Nov 2022 10:32

Instrument :

MSVOA\_V

ClientSampleId :

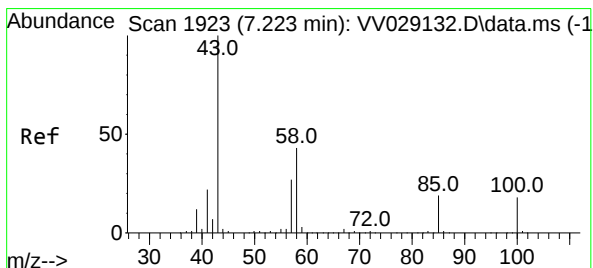
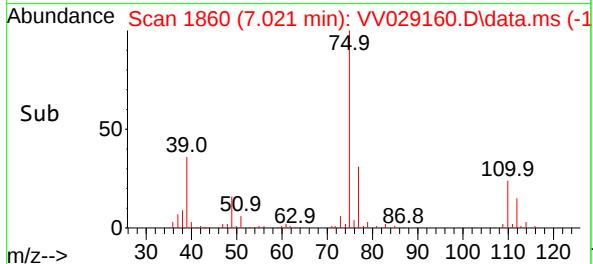
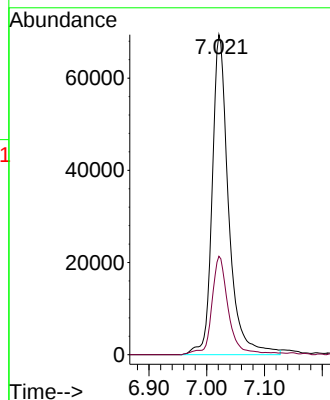
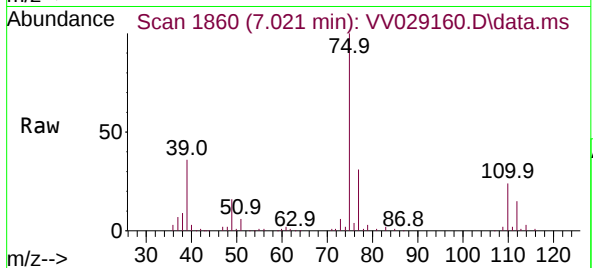
VSTD005358

Tgt Ion: 75 Resp: 137105

Ion Ratio Lower Upper

75 100

77 30.8 21.8 40.6



#40

4-Methyl-2-pentanone

Concen: 52.645 ug/L

RT: 7.220 min Scan# 1922

Delta R.T. -0.006 min

Lab File: VV029160.D

Acq: 19 Nov 2022 10:32

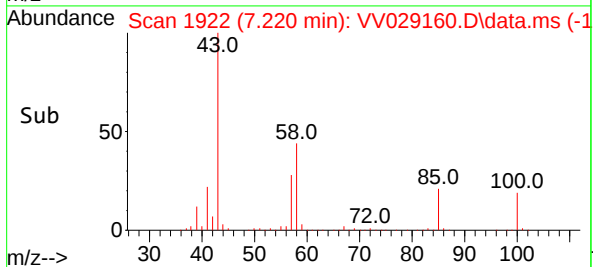
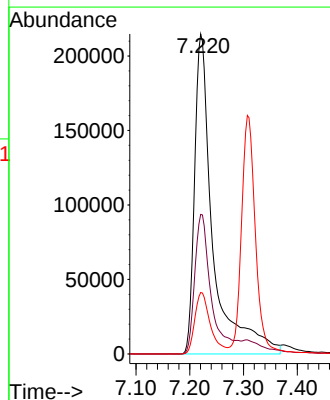
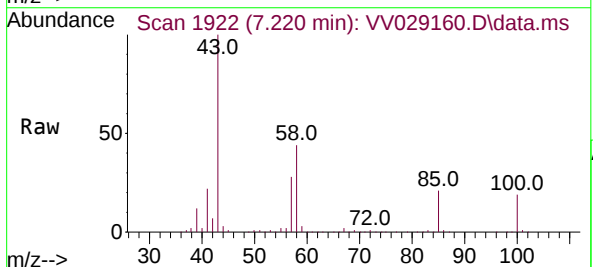
Tgt Ion: 43 Resp: 511419

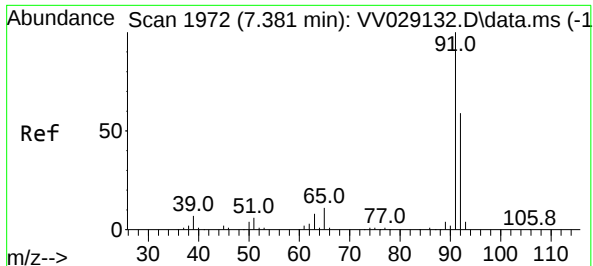
Ion Ratio Lower Upper

43 100

58 39.4 36.6 55.0

100 16.2 14.5 21.7

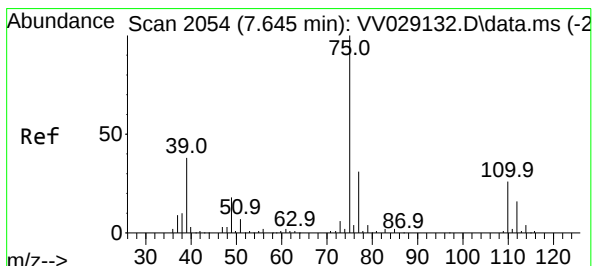
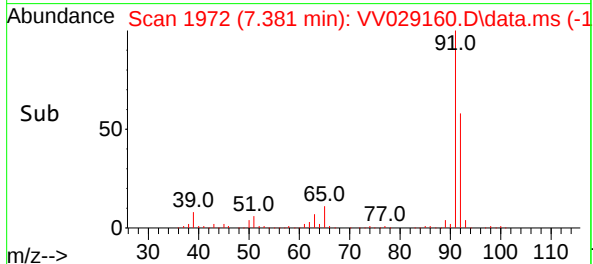
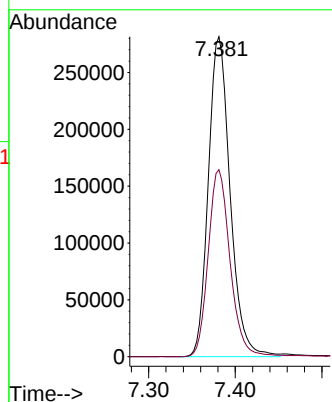
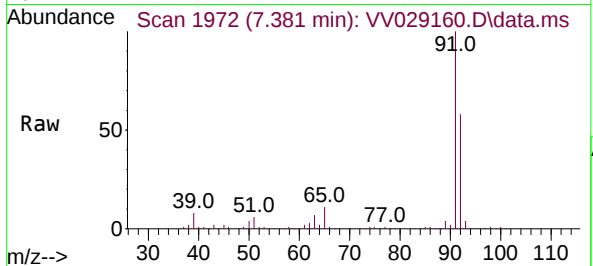




#42  
Toluene  
Concen: 4.654 ug/L  
RT: 7.381 min Scan# 1972  
Delta R.T. -0.003 min  
Lab File: VV029160.D  
Acq: 19 Nov 2022 10:32

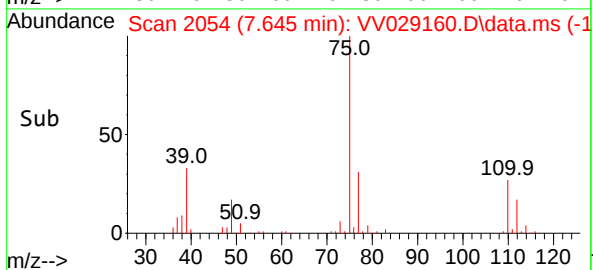
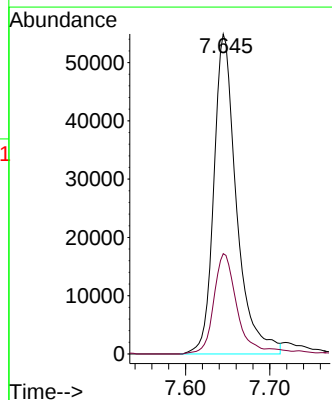
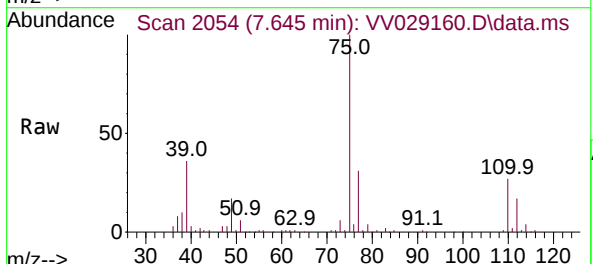
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD005358

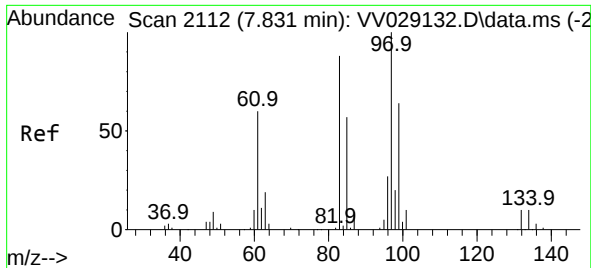
Tgt Ion: 91 Resp: 492278  
Ion Ratio Lower Upper  
91 100  
92 58.5 40.7 75.5



#44  
trans-1,3-Dichloropropene  
Concen: 4.195 ug/L  
RT: 7.645 min Scan# 2054  
Delta R.T. -0.006 min  
Lab File: VV029160.D  
Acq: 19 Nov 2022 10:32

Tgt Ion: 75 Resp: 102649  
Ion Ratio Lower Upper  
75 100  
77 31.4 22.2 41.2

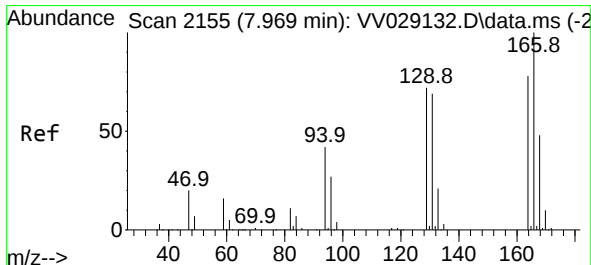
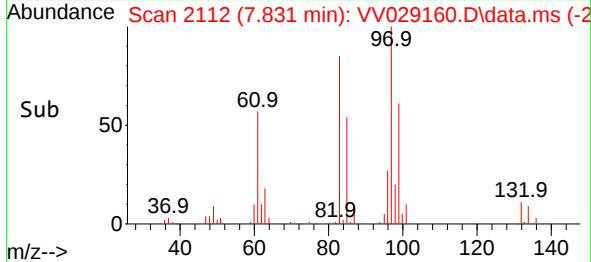
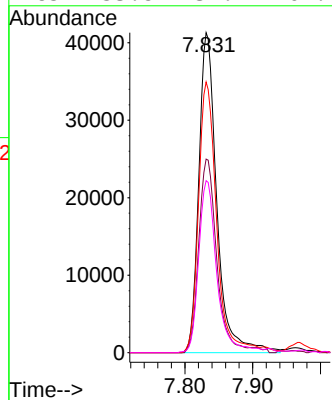
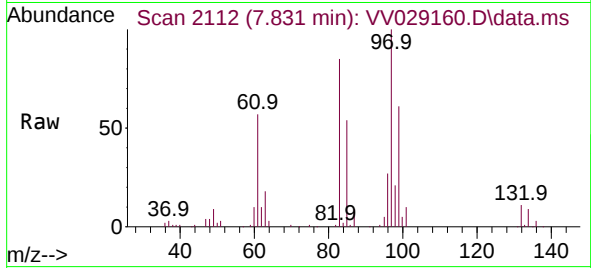




#45  
1,1,2-Trichloroethane  
Concen: 5.170 ug/L  
RT: 7.831 min Scan# 2112  
Delta R.T. -0.003 min  
Lab File: VV029160.D  
Acq: 19 Nov 2022 10:32

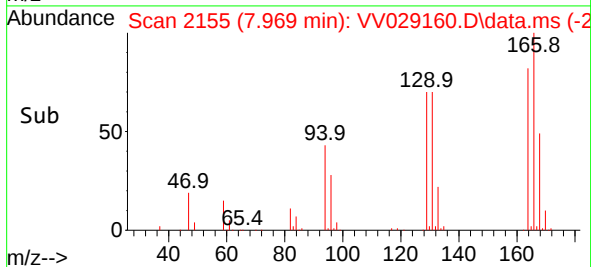
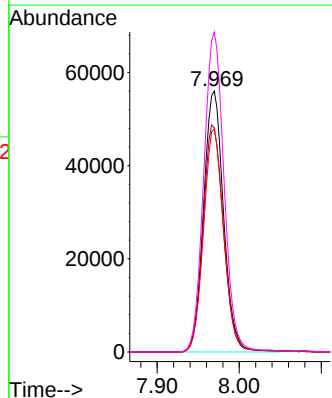
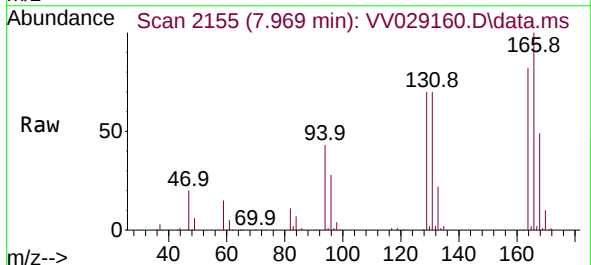
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD005358

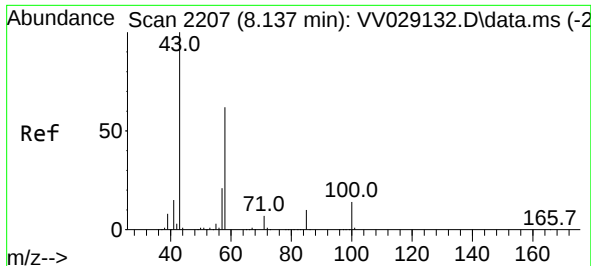
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 76415 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 60.5  | 41.5  | 77.1  |
| 83       | 84.6  | 60.0  | 111.4 |
| 85       | 53.8  | 37.4  | 69.4  |



#47  
Tetrachloroethene  
Concen: 4.744 ug/L  
RT: 7.969 min Scan# 2155  
Delta R.T. -0.003 min  
Lab File: VV029160.D  
Acq: 19 Nov 2022 10:32

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 95225 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 85.9  | 63.9  | 118.7 |
| 131      | 85.5  | 61.8  | 114.8 |
| 166      | 122.6 | 90.2  | 167.4 |

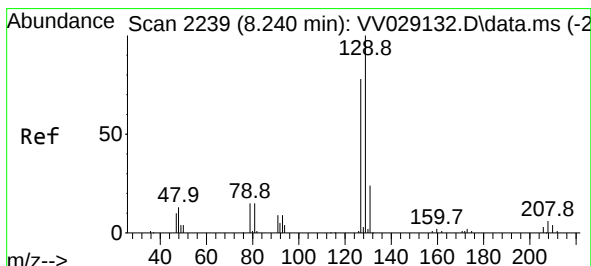
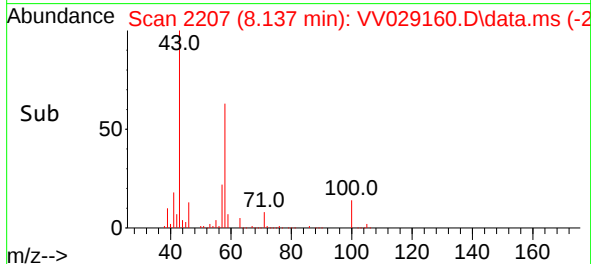
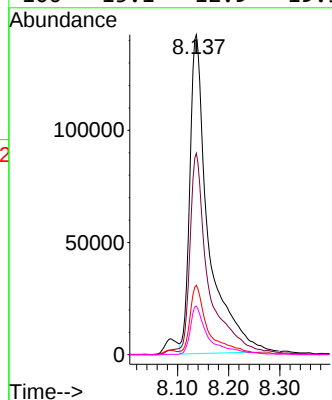
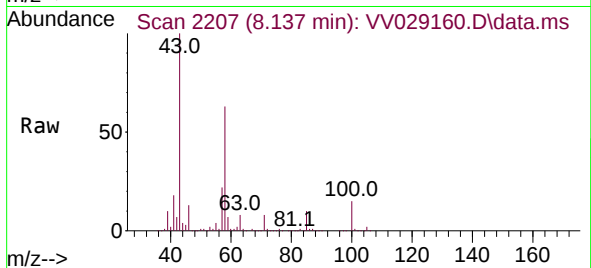




#48  
2-Hexanone  
Concen: 52.834 ug/L  
RT: 8.137 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: VV029160.D  
Acq: 19 Nov 2022 10:32

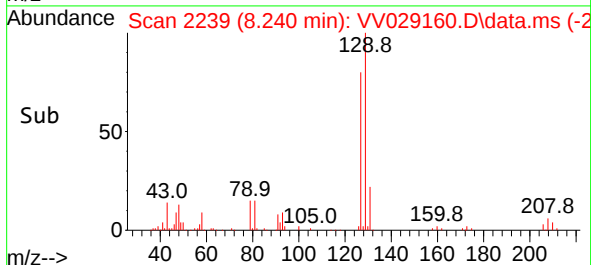
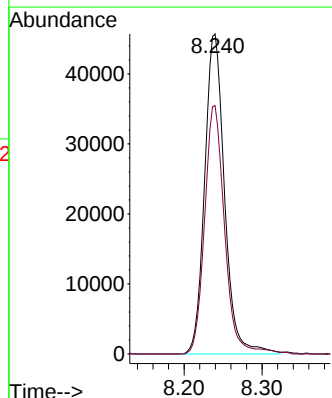
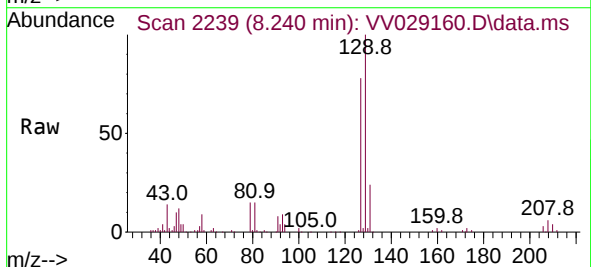
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD005358

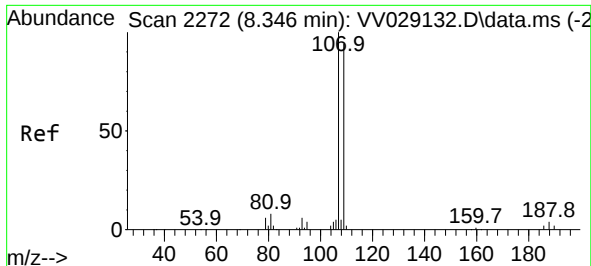
Tgt Ion: 43 Resp: 359524  
Ion Ratio Lower Upper  
43 100  
58 64.1 50.2 75.4  
57 20.6 17.8 26.8  
100 15.1 12.9 19.3



#49  
Dibromochloromethane  
Concen: 4.542 ug/L  
RT: 8.240 min Scan# 2239  
Delta R.T. 0.000 min  
Lab File: VV029160.D  
Acq: 19 Nov 2022 10:32

Tgt Ion: 129 Resp: 81164  
Ion Ratio Lower Upper  
129 100  
127 77.6 54.5 101.1

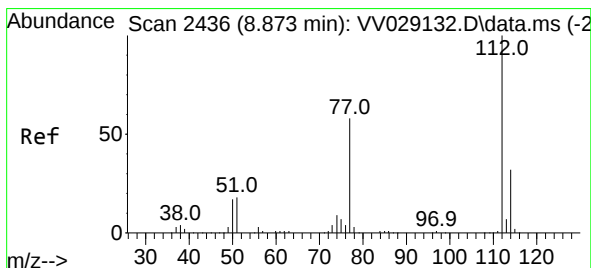
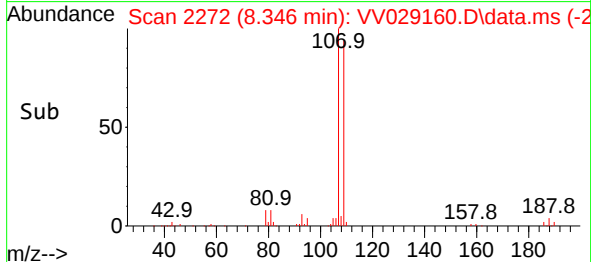
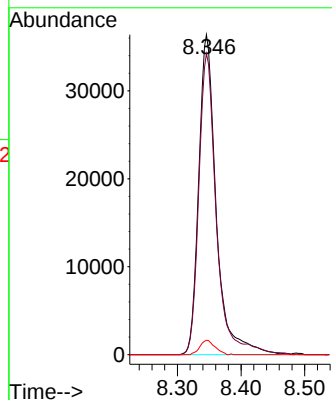
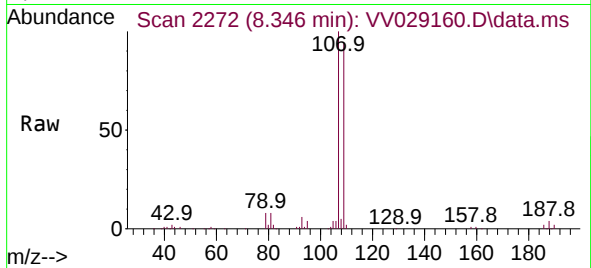




#50  
1,2-Dibromoethane  
Concen: 5.076 ug/L  
RT: 8.346 min Scan# 211  
Delta R.T. -0.003 min  
Lab File: VV029160.D  
Acq: 19 Nov 2022 10:32

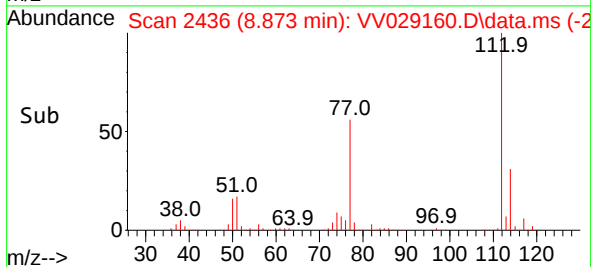
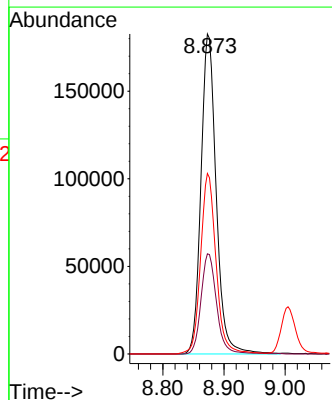
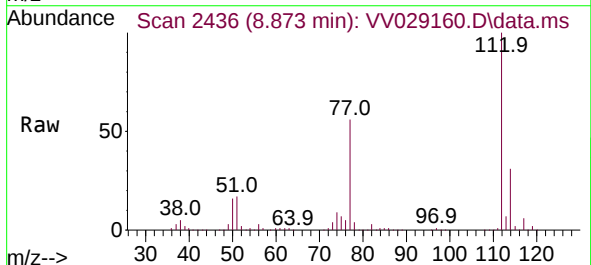
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD005358

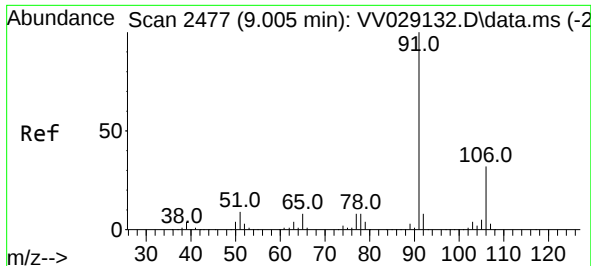
Tgt Ion:107 Resp: 69706  
Ion Ratio Lower Upper  
107 100  
109 94.1 64.4 119.6  
188 4.5 2.9 4.3#



#51  
Chlorobenzene  
Concen: 4.837 ug/L  
RT: 8.873 min Scan# 2436  
Delta R.T. -0.003 min  
Lab File: VV029160.D  
Acq: 19 Nov 2022 10:32

Tgt Ion:112 Resp: 316379  
Ion Ratio Lower Upper  
112 100  
114 31.3 22.4 41.6  
77 56.4 44.4 66.6

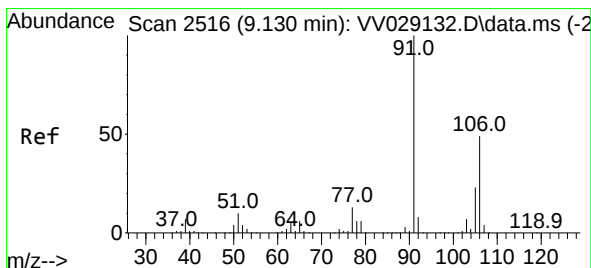
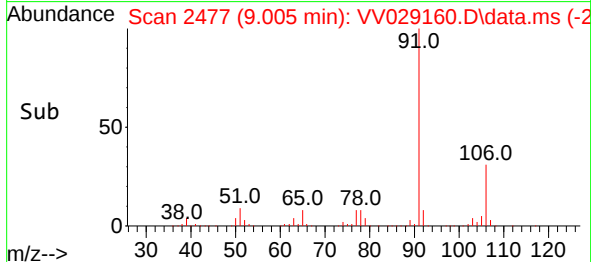
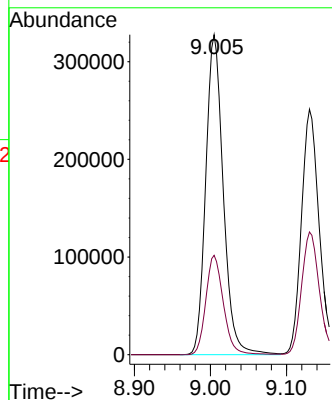
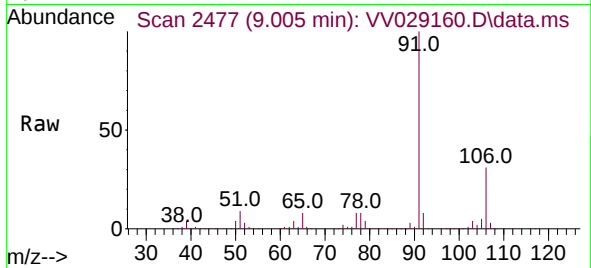




#52  
Ethylbenzene  
Concen: 4.759 ug/L  
RT: 9.005 min Scan# 2477  
Delta R.T. -0.003 min  
Lab File: VV029160.D  
Acq: 19 Nov 2022 10:32

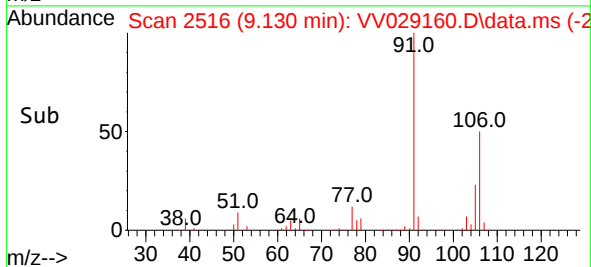
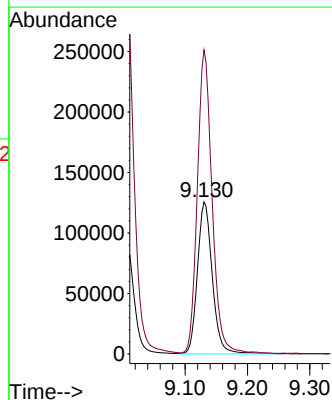
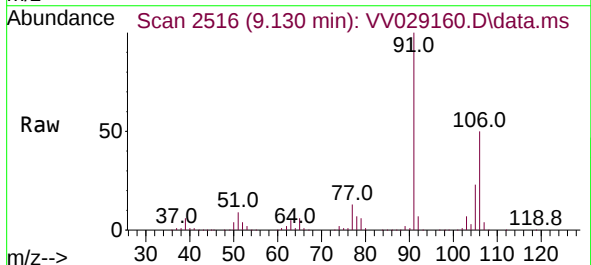
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD005358

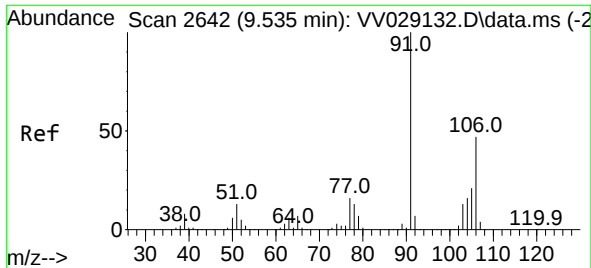
Tgt Ion: 91 Resp: 524095  
Ion Ratio Lower Upper  
91 100  
106 31.1 21.6 40.2



#53  
m,p-Xylene  
Concen: 4.737 ug/L  
RT: 9.130 min Scan# 2516  
Delta R.T. -0.003 min  
Lab File: VV029160.D  
Acq: 19 Nov 2022 10:32

Tgt Ion: 106 Resp: 207475  
Ion Ratio Lower Upper  
106 100  
91 199.9 139.1 258.3

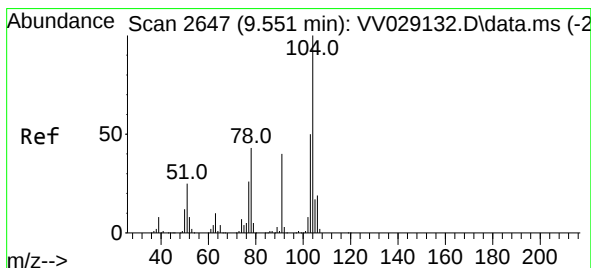
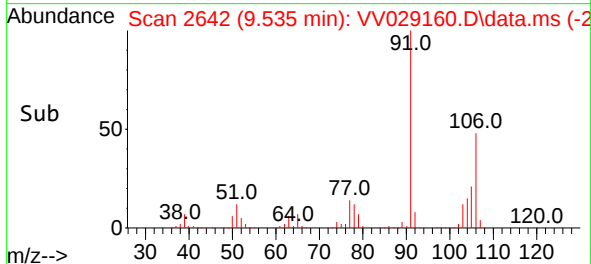
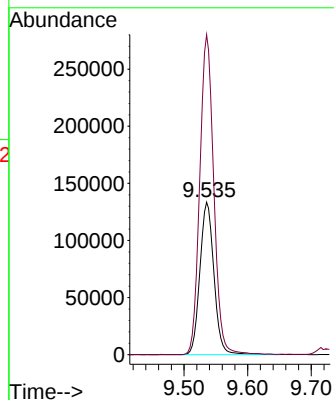
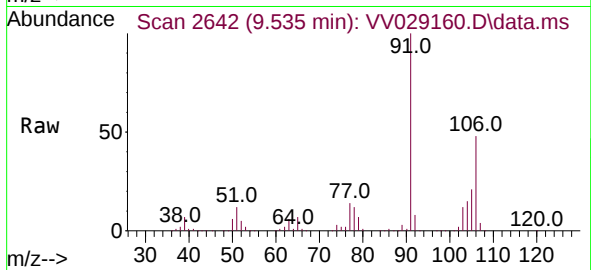




#54  
o-Xylene  
Concen: 4.918 ug/L  
RT: 9.535 min Scan# 2642  
Delta R.T. -0.003 min  
Lab File: VV029160.D  
Acq: 19 Nov 2022 10:32

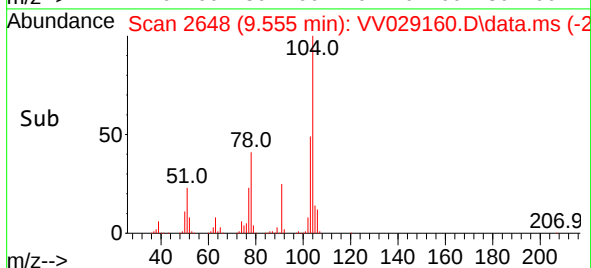
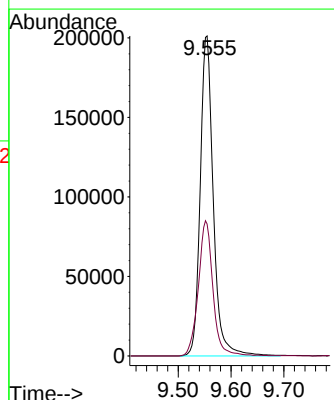
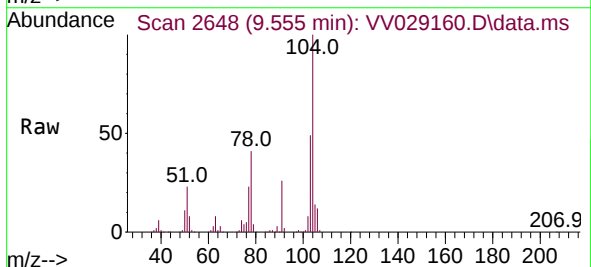
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD005358

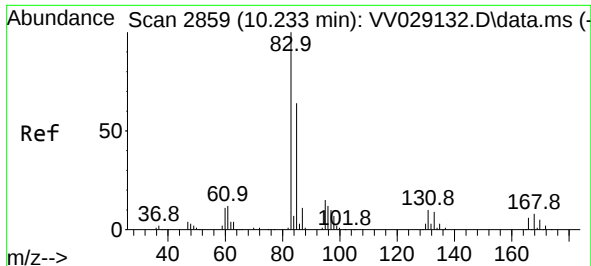
Tgt Ion:106 Resp: 204760  
Ion Ratio Lower Upper  
106 100  
91 209.9 145.7 270.7



#55  
Styrene  
Concen: 4.948 ug/L  
RT: 9.555 min Scan# 2648  
Delta R.T. 0.000 min  
Lab File: VV029160.D  
Acq: 19 Nov 2022 10:32

Tgt Ion:104 Resp: 345563  
Ion Ratio Lower Upper  
104 100  
78 41.3 30.1 55.9

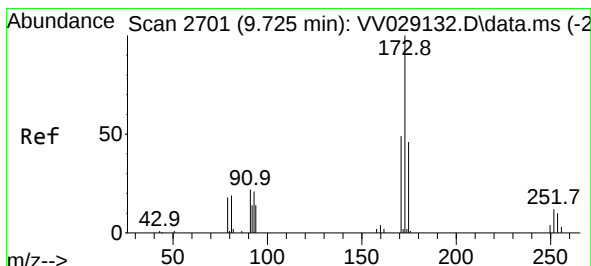
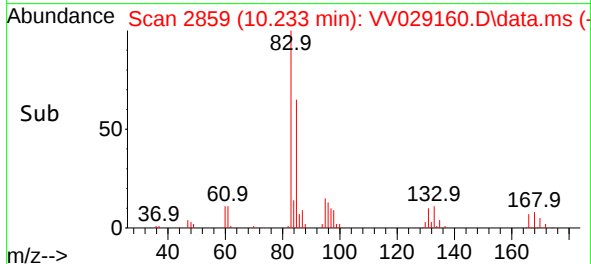
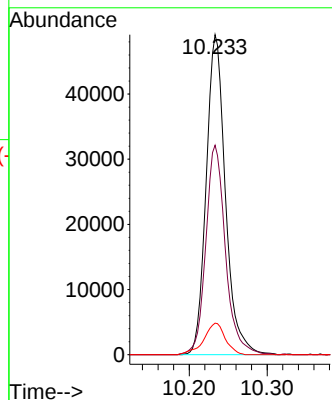
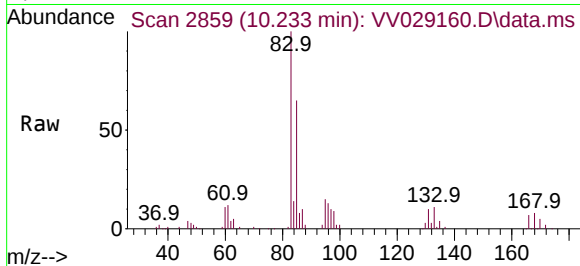




#57  
 1,1,2,2-Tetrachloroethane  
 Concen: 4.885 ug/L  
 RT: 10.233 min Scan# 2859  
 Delta R.T. -0.003 min  
 Lab File: VV029160.D  
 Acq: 19 Nov 2022 10:32

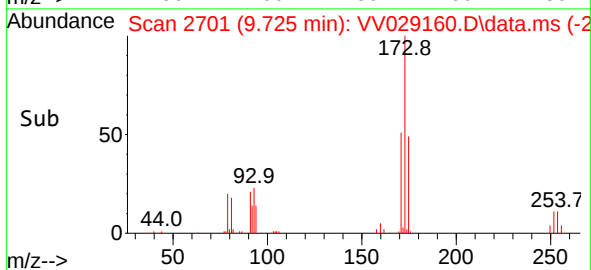
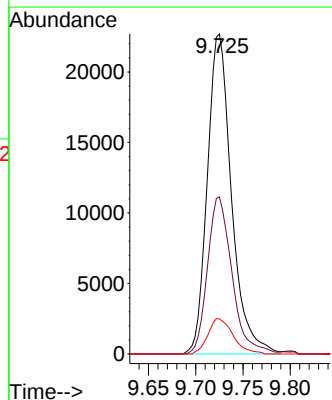
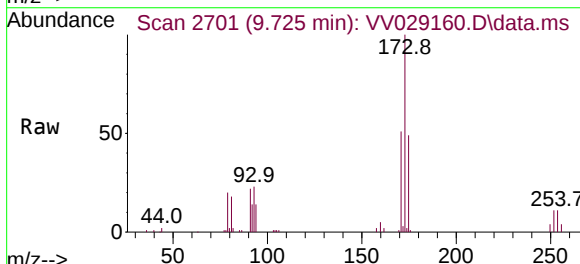
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD005358

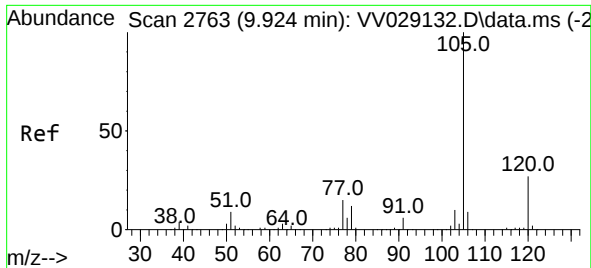
Tgt Ion: 83 Resp: 84154  
 Ion Ratio Lower Upper  
 83 100  
 85 65.5 45.2 84.0  
 131 9.8 7.5 11.3



#59  
 Bromoform  
 Concen: 4.693 ug/L  
 RT: 9.725 min Scan# 2701  
 Delta R.T. -0.003 min  
 Lab File: VV029160.D  
 Acq: 19 Nov 2022 10:32

Tgt Ion: 173 Resp: 40404  
 Ion Ratio Lower Upper  
 173 100  
 175 49.6 38.2 57.4  
 254 11.5 8.5 12.7

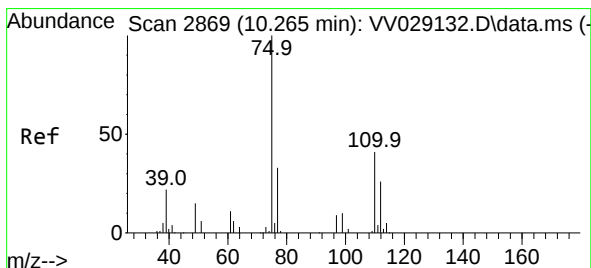
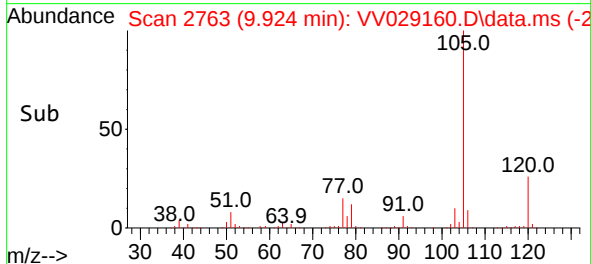
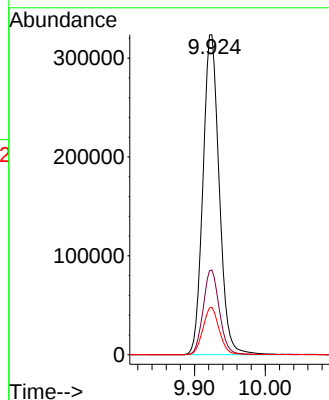
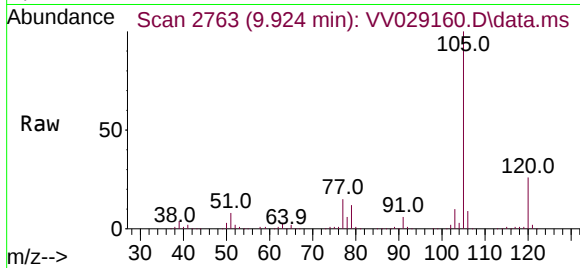




#60  
Isopropylbenzene  
Concen: 5.033 ug/L  
RT: 9.924 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VV029160.D  
Acq: 19 Nov 2022 10:32

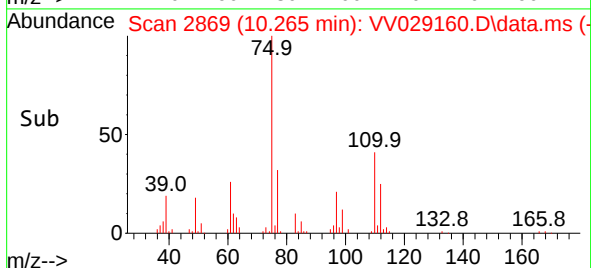
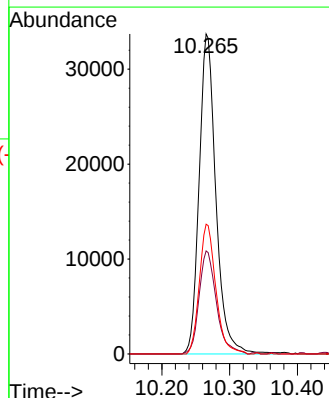
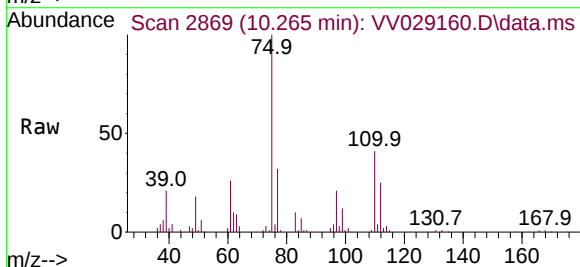
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD005358

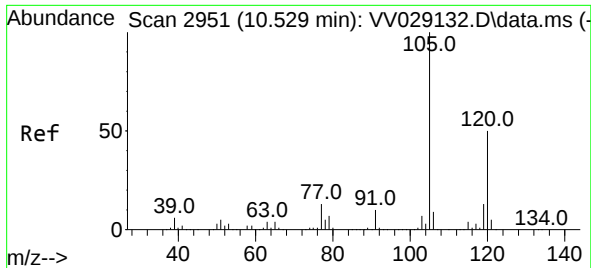
Tgt Ion:105 Resp: 515965  
Ion Ratio Lower Upper  
105 100  
120 26.5 21.3 31.9  
77 14.9 11.8 17.8



#61  
1,2,3-Trichloropropane  
Concen: 5.368 ug/L  
RT: 10.265 min Scan# 2869  
Delta R.T. -0.003 min  
Lab File: VV029160.D  
Acq: 19 Nov 2022 10:32

Tgt Ion: 75 Resp: 57940  
Ion Ratio Lower Upper  
75 100  
77 33.2 26.2 39.2  
110 39.8 32.6 48.8

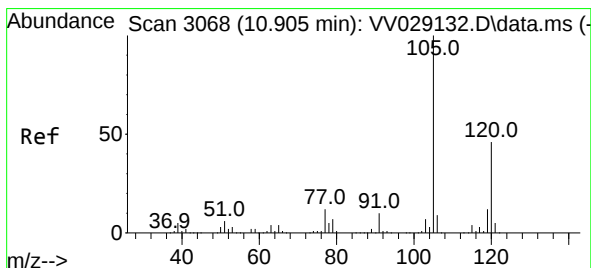
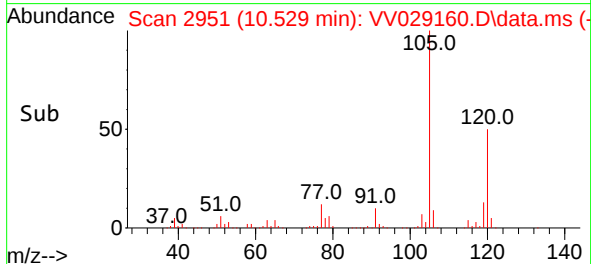
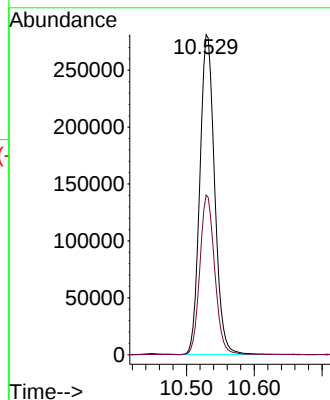
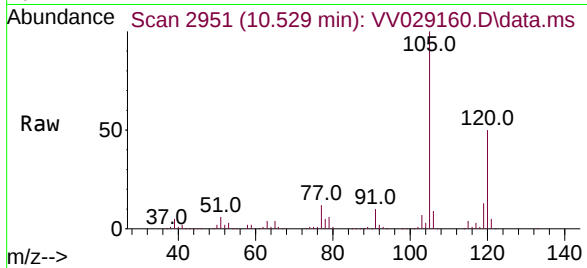




#62  
 1,3,5-Trimethylbenzene  
 Concen: 4.900 ug/L  
 RT: 10.529 min Scan# 2951  
 Delta R.T. -0.003 min  
 Lab File: VV029160.D  
 Acq: 19 Nov 2022 10:32

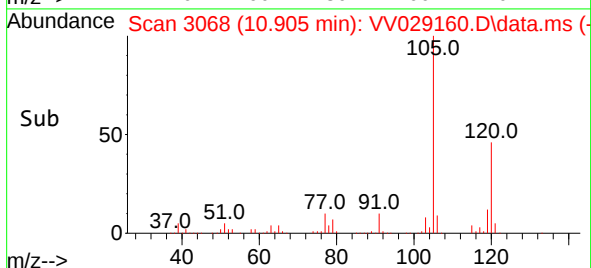
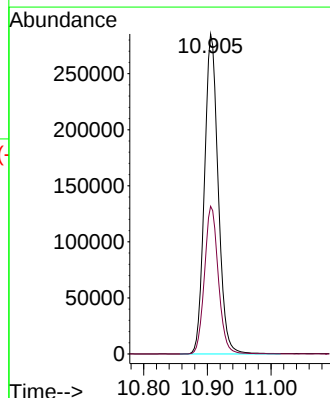
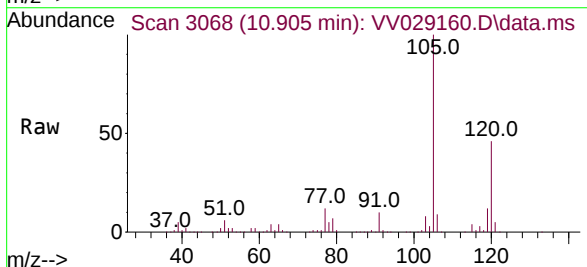
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD005358

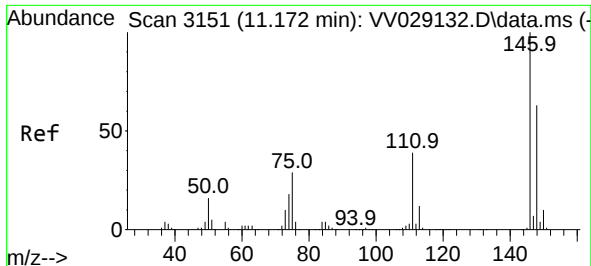
Tgt Ion:105 Resp: 425541  
 Ion Ratio Lower Upper  
 105 100  
 120 50.2 39.9 59.9



#63  
 1,2,4-Trimethylbenzene  
 Concen: 4.919 ug/L  
 RT: 10.905 min Scan# 3068  
 Delta R.T. 0.000 min  
 Lab File: VV029160.D  
 Acq: 19 Nov 2022 10:32

Tgt Ion:105 Resp: 427923  
 Ion Ratio Lower Upper  
 105 100  
 120 46.6 37.8 56.8





#64

1,3-Dichlorobenzene

Concen: 4.946 ug/L

RT: 11.172 min Scan# 3151

Delta R.T. -0.003 min

Lab File: VV029160.D

Acq: 19 Nov 2022 10:32

Instrument :

MSVOA\_V

ClientSampleId :

VSTD005358

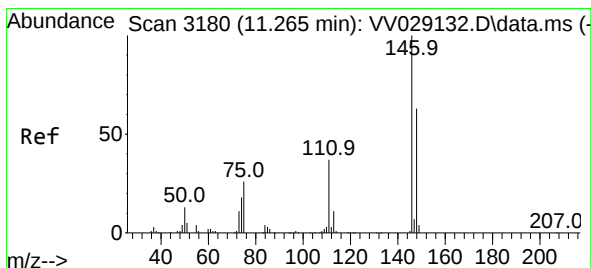
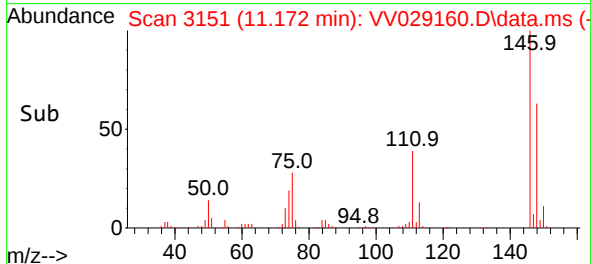
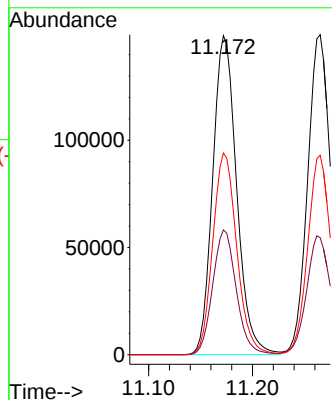
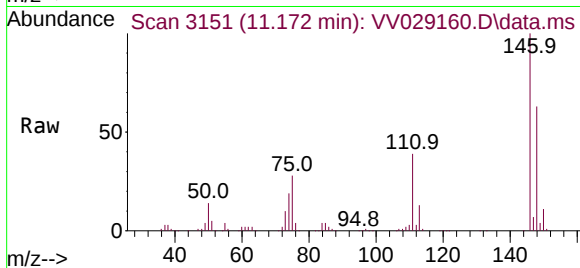
Tgt Ion:146 Resp: 238210

Ion Ratio Lower Upper

146 100

111 39.1 26.9 50.1

148 63.2 44.1 81.9



#65

1,4-Dichlorobenzene

Concen: 4.934 ug/L

RT: 11.265 min Scan# 3180

Delta R.T. 0.000 min

Lab File: VV029160.D

Acq: 19 Nov 2022 10:32

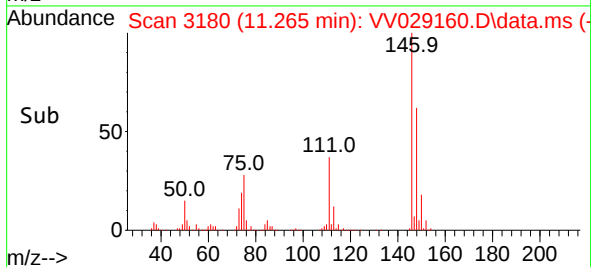
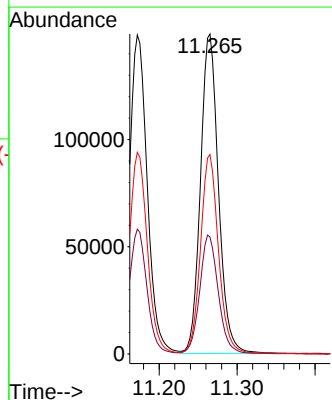
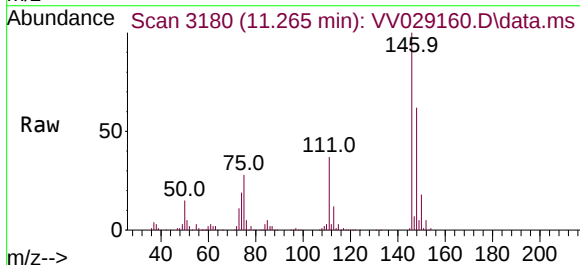
Tgt Ion:146 Resp: 238934

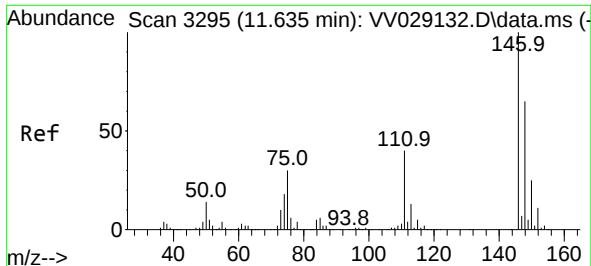
Ion Ratio Lower Upper

146 100

111 36.6 26.5 49.3

148 62.3 44.5 82.7





#67

1,2-Dichlorobenzene

Concen: 4.999 ug/L

RT: 11.635 min Scan# 3295

Delta R.T. 0.000 min

Lab File: VV029160.D

Acq: 19 Nov 2022 10:32

Instrument :

MSVOA\_V

ClientSampleId :

VSTD005358

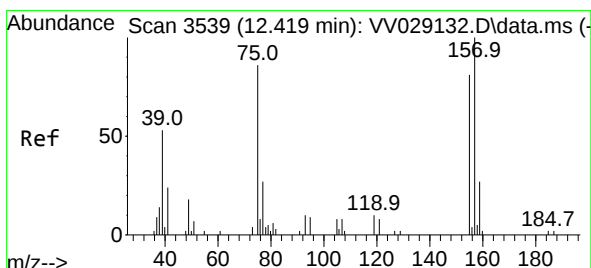
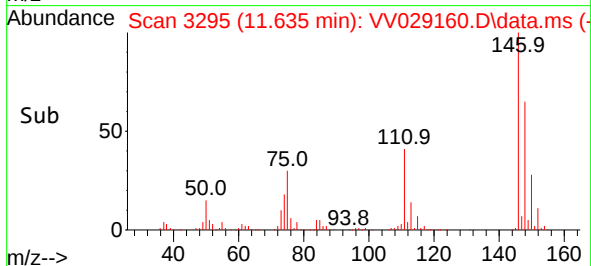
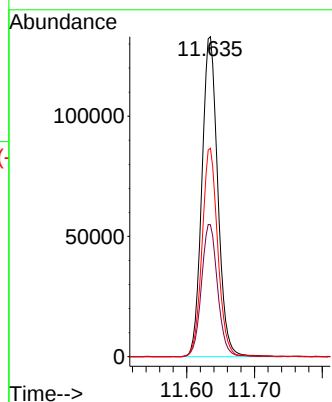
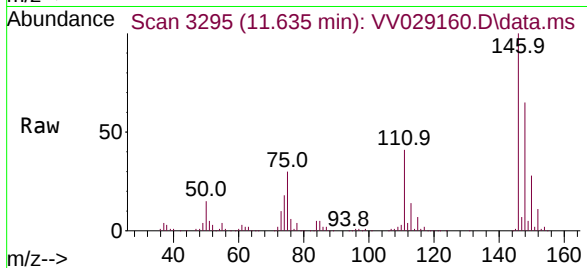
Tgt Ion:146 Resp: 216354

Ion Ratio Lower Upper

146 100

111 41.2 32.4 48.6

148 65.2 49.4 74.2



#68

1,2-Dibromo-3-chloropropane

Concen: 4.465 ug/L

RT: 12.419 min Scan# 3539

Delta R.T. 0.000 min

Lab File: VV029160.D

Acq: 19 Nov 2022 10:32

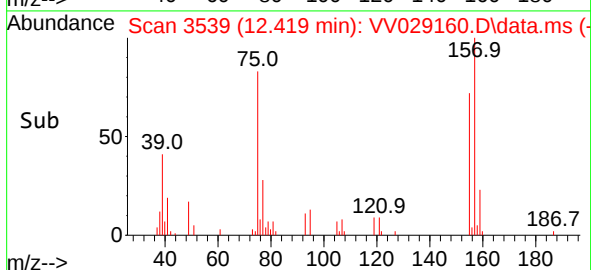
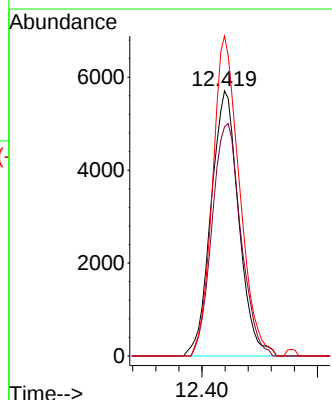
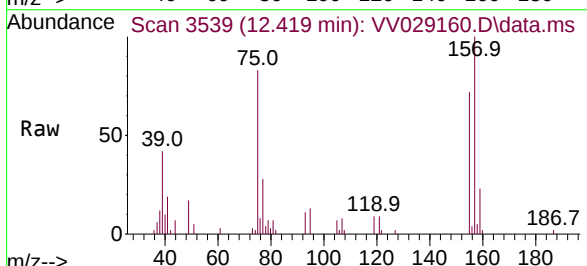
Tgt Ion: 75 Resp: 9481

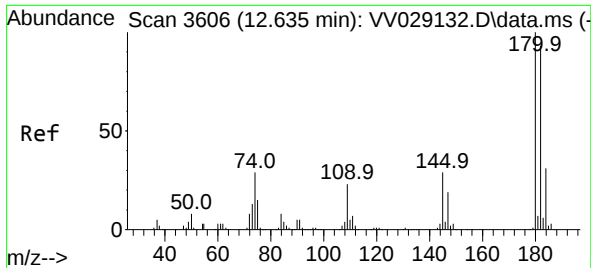
Ion Ratio Lower Upper

75 100

155 86.5 64.8 97.2

157 120.7 86.3 129.5

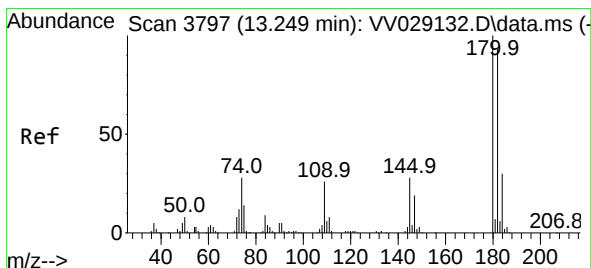
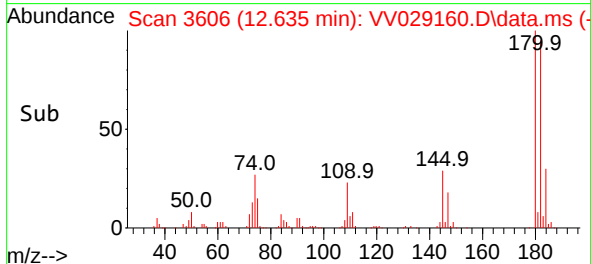
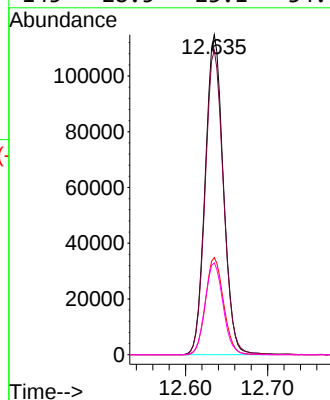
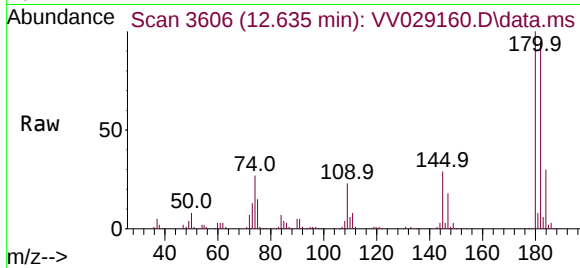




#69  
 1,3,5-Trichlorobenzene  
 Concen: 4.744 ug/L  
 RT: 12.635 min Scan# 3606  
 Delta R.T. 0.000 min  
 Lab File: VV029160.D  
 Acq: 19 Nov 2022 10:32

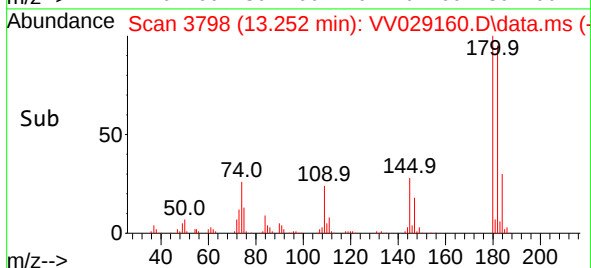
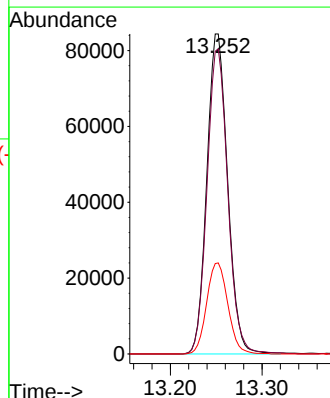
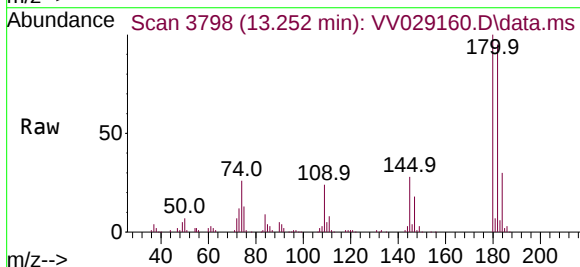
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD005358

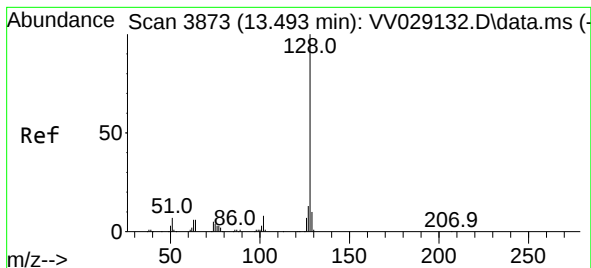
Tgt Ion:180 Resp: 176270  
 Ion Ratio Lower Upper  
 180 100  
 182 96.1 76.7 115.1  
 184 30.2 24.0 36.0  
 145 28.5 23.1 34.7



#70  
 1,2,4-trichlorobenzene  
 Concen: 4.726 ug/L  
 RT: 13.252 min Scan# 3798  
 Delta R.T. 0.000 min  
 Lab File: VV029160.D  
 Acq: 19 Nov 2022 10:32

Tgt Ion:180 Resp: 132832  
 Ion Ratio Lower Upper  
 180 100  
 182 95.4 74.3 111.5  
 145 29.0 23.7 35.5





#71

Naphthalene

Concen: 4.419 ug/L

RT: 13.493 min Scan# 3873

Delta R.T. 0.000 min

Lab File: VV029160.D

Acq: 19 Nov 2022 10:32

Instrument :

MSVOA\_V

ClientSampleId :

VSTD005358

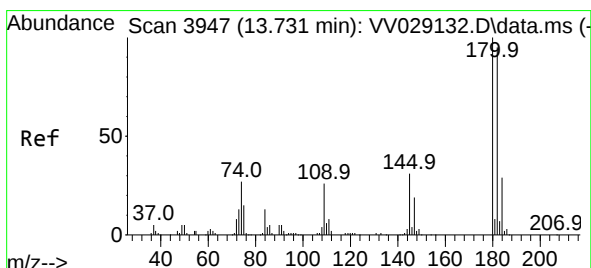
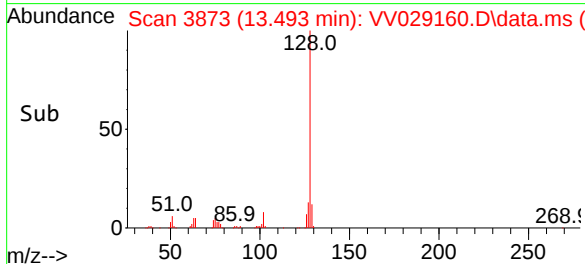
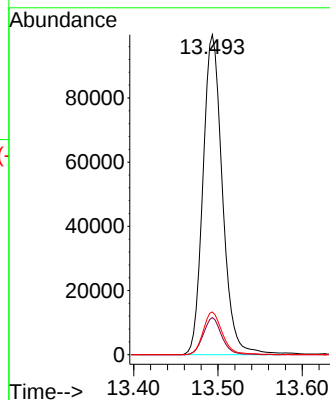
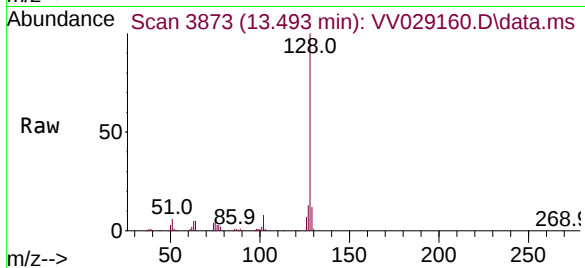
Tgt Ion:128 Resp: 160272

Ion Ratio Lower Upper

128 100

129 11.0 8.8 13.2

127 13.2 9.8 14.8



#72

1,2,3-Trichlorobenzene

Concen: 4.845 ug/L

RT: 13.731 min Scan# 3947

Delta R.T. 0.000 min

Lab File: VV029160.D

Acq: 19 Nov 2022 10:32

Tgt Ion:180 Resp: 115348

Ion Ratio Lower Upper

180 100

182 94.7 75.4 113.2

145 30.6 24.9 37.3

