

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW061523\  
 Data File : VW031519.D  
 Acq On : 15 Jun 2023 10:10  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050371

Quant Time: Jun 16 02:42:55 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM061423WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Jun 15 00:30:14 2023  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.538   | 114   | 250692   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.789   | 117   | 243280   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.191  | 152   | 149693   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.281   | 65    | 75554    | 45.284   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 90.560%  |
| 7) Chloroethane-d5            | 1.535   | 69    | 67084    | 46.081   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 92.160%  |
| 11) 1,1-Dichloroethene-d2     | 2.063   | 65    | 37202    | 43.264   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 86.520%  |
| 21) 2-Butanone-d5             | 3.799   | 46    | 120847   | 89.451   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 89.450%  |
| 24) Chloroform-d              | 4.256   | 84    | 193222   | 46.242   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 92.480%  |
| 26) 1,2-Dichloroethane-d4     | 4.947   | 65    | 122227   | 46.753   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 93.500%  |
| 32) Benzene-d6                | 4.966   | 84    | 330434   | 48.254   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 96.500%  |
| 36) 1,2-Dichloropropane-d6    | 5.995   | 67    | 114873   | 47.330   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 94.660%  |
| 41) Toluene-d8                | 7.249   | 98    | 311758   | 49.612   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 99.220%  |
| 43) trans-1,3-Dichloroprop... | 7.554   | 79    | 57970    | 48.995   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 97.980%  |
| 47) 2-Hexanone-d5             | 8.030   | 63    | 91874    | 95.873   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 95.870%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.159  | 84    | 168644   | 46.034   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 92.060%  |
| 66) 1,2-Dichlorobenzene-d4    | 11.567  | 152   | 130730   | 45.815   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 91.640%  |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.111   | 85    | 125699   | 47.271   | ug/L   | 100      |
| 3) Chloromethane              | 1.217   | 50    | 115106   | 45.874   | ug/L   | 100      |
| 5) Vinyl chloride             | 1.288   | 62    | 117026   | 47.049   | ug/L   | 99       |
| 6) Bromomethane               | 1.494   | 94    | 75520    | 46.584   | ug/L   | 96       |
| 8) Chloroethane               | 1.555   | 64    | 71961    | 44.793   | ug/L   | 97       |
| 9) Trichlorofluoromethane     | 1.719   | 101   | 193872   | 46.851   | ug/L   | 98       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.076   | 101   | 107683   | 48.558   | ug/L   | 98       |
| 12) 1,1-Dichloroethene        | 2.076   | 96    | 89366    | 48.177   | ug/L   | 96       |
| 13) Acetone                   | 2.124   | 43    | 129921   | 97.459   | ug/L   | 99       |
| 14) Carbon disulfide          | 2.246   | 76    | 274030   | 48.838   | ug/L   | 100      |
| 15) Methyl Acetate            | 2.378   | 43    | 105854   | 47.163   | ug/L   | 98       |
| 16) Methylene chloride        | 2.455   | 84    | 106684   | 45.875   | ug/L   | 94       |
| 17) trans-1,2-Dichloroethene  | 2.699   | 96    | 93527    | 48.303   | ug/L   | 99       |
| 18) Methyl tert-butyl Ether   | 2.709   | 73    | 310789   | 48.105   | ug/L   | 99       |
| 19) 1,1-Dichloroethane        | 3.117   | 63    | 198820   | 47.576   | ug/L   | 99       |
| 20) cis-1,2-Dichloroethene    | 3.821   | 96    | 99417    | 47.511   | ug/L   | 95       |
| 22) 2-Butanone                | 3.879   | 43    | 152210   | 91.398   | ug/L   | 100      |
| 23) Bromochloromethane        | 4.153   | 128   | 55219    | 48.819   | ug/L   | 96       |
| 25) Chloroform                | 4.284   | 83    | 207796   | 47.833   | ug/L   | 99       |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050371

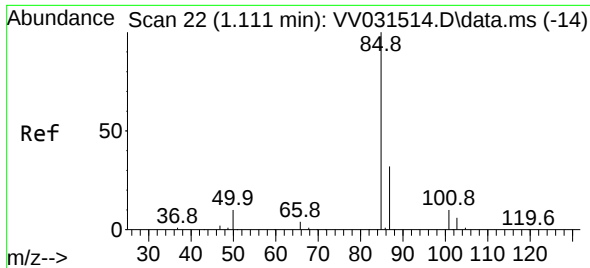
Quant Time: Jun 16 02:42:55 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM061423WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Jun 15 00:30:14 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.047  | 62   | 161271   | 48.101  | ug/L  | 98       |
| 29) Cyclohexane               | 4.593  | 56   | 159572   | 50.415  | ug/L  | 99       |
| 30) 1,1,1-Trichloroethane     | 4.519  | 97   | 191370   | 49.063  | ug/L  | 99       |
| 31) Carbon tetrachloride      | 4.741  | 117  | 168887   | 48.868  | ug/L  | 99       |
| 33) Benzene                   | 5.018  | 78   | 405989   | 50.124  | ug/L  | 100      |
| 34) Trichloroethene           | 5.837  | 95   | 107427   | 49.634  | ug/L  | 98       |
| 35) Methylcyclohexane         | 6.056  | 83   | 165191   | 51.799  | ug/L  | 99       |
| 37) 1,2-Dichloropropane       | 6.098  | 63   | 117362   | 49.344  | ug/L  | 99       |
| 38) Bromodichloromethane      | 6.439  | 83   | 157668   | 49.044  | ug/L  | 100      |
| 39) cis-1,3-Dichloropropene   | 6.956  | 75   | 174045   | 49.296  | ug/L  | 97       |
| 40) 4-Methyl-2-pentanone      | 7.162  | 43   | 279197   | 99.971  | ug/L  | 99       |
| 42) Toluene                   | 7.320  | 91   | 433958   | 51.674  | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene | 7.587  | 75   | 171884   | 49.992  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane     | 7.773  | 97   | 108400   | 48.246  | ug/L  | 98       |
| 46) Tetrachloroethene         | 7.911  | 164  | 85807    | 50.513  | ug/L  | 98       |
| 48) 2-Hexanone                | 8.082  | 43   | 223487   | 100.197 | ug/L  | 99       |
| 49) Dibromochloromethane      | 8.181  | 129  | 124406   | 49.820  | ug/L  | 100      |
| 50) 1,2-Dibromoethane         | 8.288  | 107  | 116292   | 48.609  | ug/L  | 99       |
| 51) Chlorobenzene             | 8.818  | 112  | 272527   | 48.998  | ug/L  | 98       |
| 52) Ethylbenzene              | 8.950  | 91   | 477832   | 50.992  | ug/L  | 100      |
| 53) m,p-Xylene                | 9.078  | 106  | 177284   | 51.661  | ug/L  | 97       |
| 54) o-Xylene                  | 9.484  | 106  | 167927   | 51.565  | ug/L  | 99       |
| 55) Styrene                   | 9.500  | 104  | 317193   | 54.537  | ug/L  | 100      |
| 57) 1,1,2,2-Tetrachloroethane | 10.181 | 83   | 178502   | 48.623  | ug/L  | 97       |
| 59) Bromoform                 | 9.670  | 173  | 91750    | 49.446  | ug/L  | 98       |
| 60) Isopropylbenzene          | 9.873  | 105  | 473593   | 49.626  | ug/L  | 100      |
| 61) 1,2,3-Trichloropropane    | 10.213 | 75   | 136489   | 46.164  | ug/L  | 100      |
| 62) 1,3,5-Trimethylbenzene    | 10.484 | 105  | 393477   | 49.886  | ug/L  | 99       |
| 63) 1,2,4-Trimethylbenzene    | 10.857 | 105  | 370947   | 50.474  | ug/L  | 99       |
| 64) 1,3-Dichlorobenzene       | 11.120 | 146  | 232815   | 48.660  | ug/L  | 99       |
| 65) 1,4-Dichlorobenzene       | 11.213 | 146  | 246463   | 48.341  | ug/L  | 99       |
| 67) 1,2-Dichlorobenzene       | 11.583 | 146  | 234695   | 48.601  | ug/L  | 98       |
| 68) 1,2-Dibromo-3-chloropr... | 12.371 | 75   | 39852    | 45.413  | ug/L  | 95       |
| 69) 1,3,5-Trichlorobenzene    | 12.590 | 180  | 175322   | 48.090  | ug/L  | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.204 | 180  | 154487   | 48.344  | ug/L  | 98       |
| 71) Naphthalene               | 13.445 | 128  | 388737   | 48.026  | ug/L  | 100      |
| 72) 1,2,3-Trichlorobenzene    | 13.686 | 180  | 159506   | 48.033  | ug/L  | 97       |

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

**Instrument :**  
MSVOA\_V  
**ClientSampleId :**  
VSTD050371

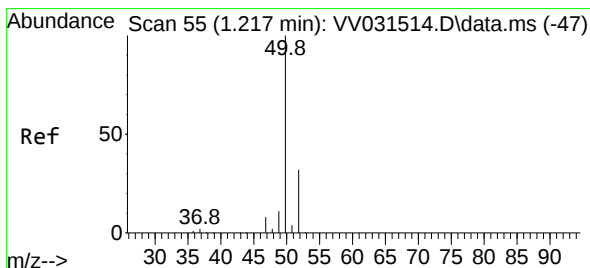
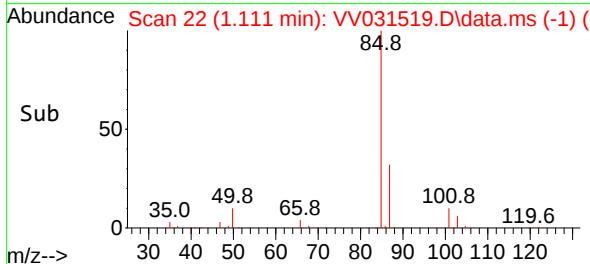
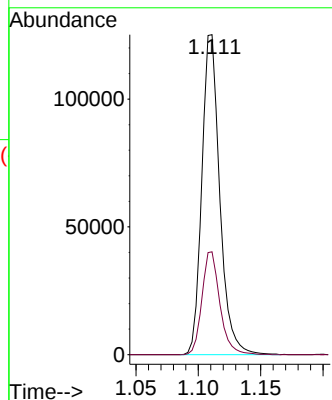
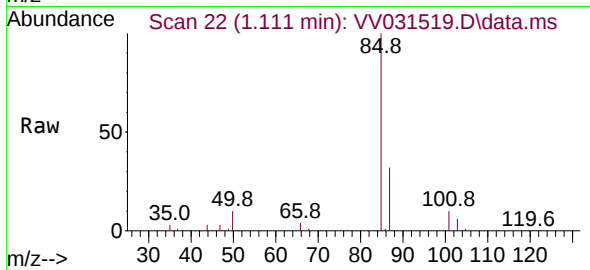
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#2  
 Dichlorodifluoromethane  
 Concen: 47.271 ug/L  
 RT: 1.111 min Scan# 22  
 Delta R.T. -0.000 min  
 Lab File: VV031519.D  
 Acq: 15 Jun 2023 10:10

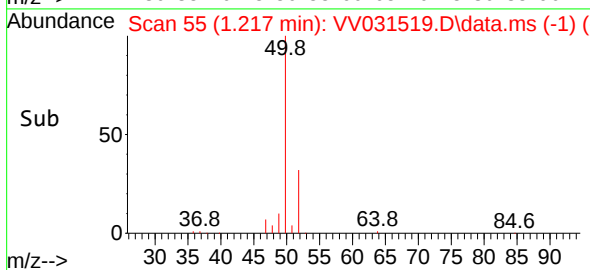
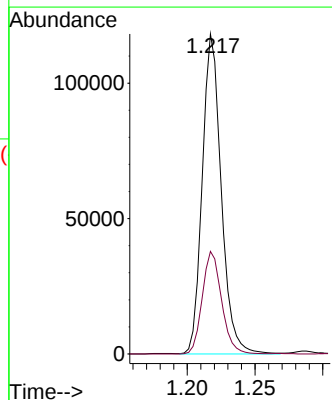
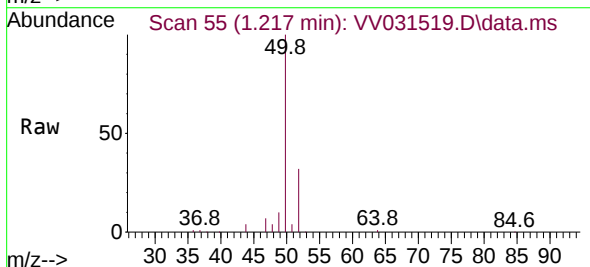
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050371

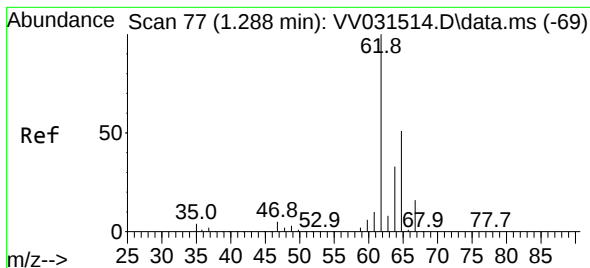
Tgt Ion: 85 Resp: 125699  
 Ion Ratio Lower Upper  
 85 100  
 87 32.2 25.5 38.3



#3  
 Chloromethane  
 Concen: 45.874 ug/L  
 RT: 1.217 min Scan# 55  
 Delta R.T. -0.000 min  
 Lab File: VV031519.D  
 Acq: 15 Jun 2023 10:10

Tgt Ion: 50 Resp: 115106  
 Ion Ratio Lower Upper  
 50 100  
 52 32.1 22.3 41.5





#5

Vinyl chloride

Concen: 47.049 ug/L

RT: 1.288 min Scan# 71

Delta R.T. -0.000 min

Lab File: VV031519.D

Acq: 15 Jun 2023 10:10

Instrument :

MSVOA\_V

ClientSampleId :

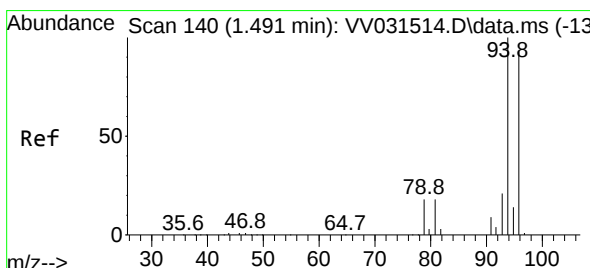
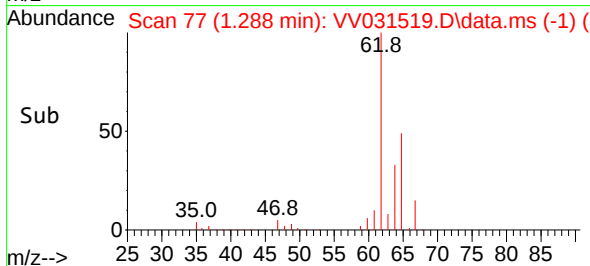
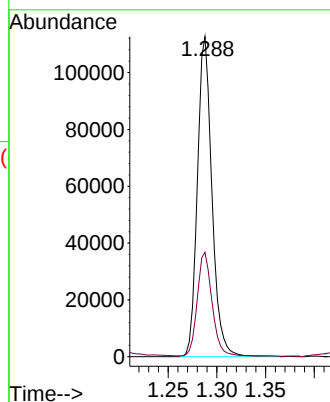
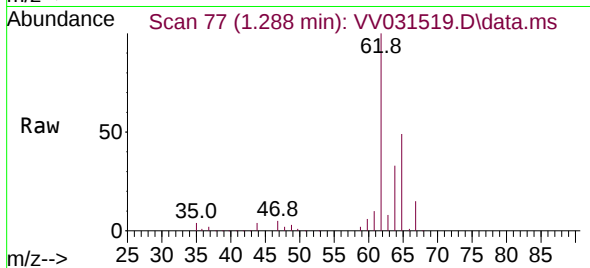
VSTD050371

Tgt Ion: 62 Resp: 117026

Ion Ratio Lower Upper

62 100

64 32.6 23.4 43.4



#6

Bromomethane

Concen: 46.584 ug/L

RT: 1.494 min Scan# 141

Delta R.T. 0.003 min

Lab File: VV031519.D

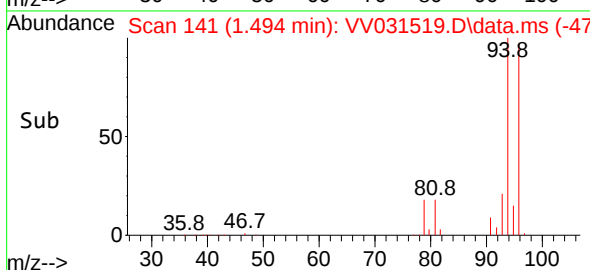
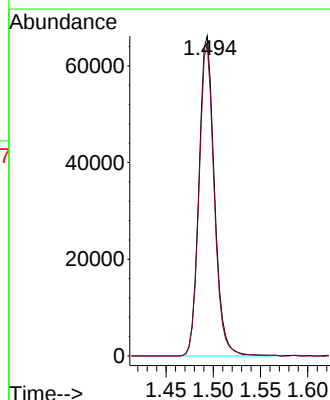
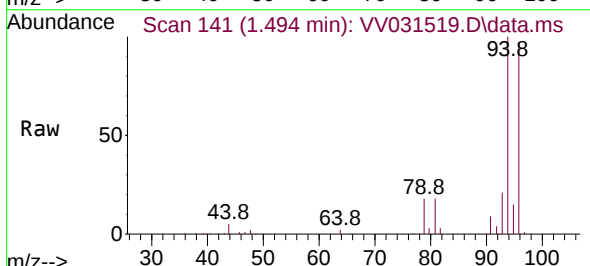
Acq: 15 Jun 2023 10:10

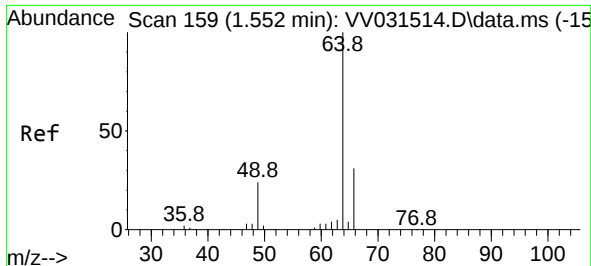
Tgt Ion: 94 Resp: 75520

Ion Ratio Lower Upper

94 100

96 97.3 65.4 121.4

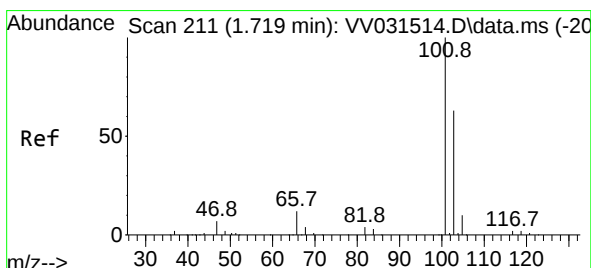
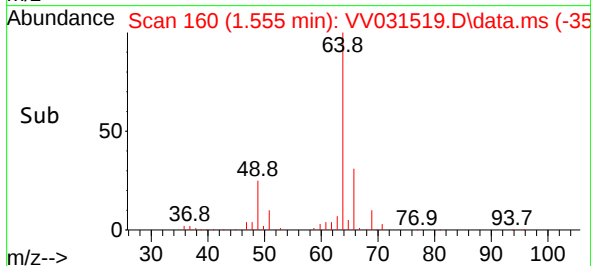
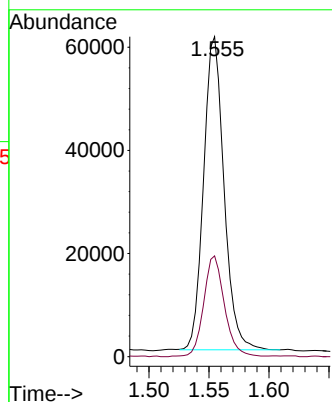
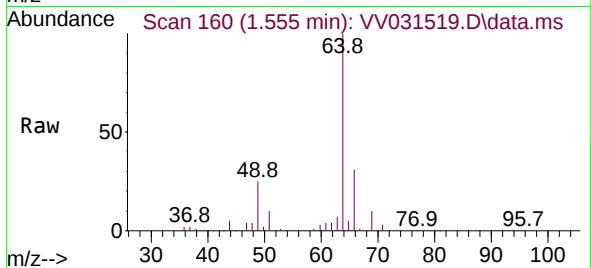




#8  
Chloroethane  
Concen: 44.793 ug/L  
RT: 1.555 min Scan# 1  
Delta R.T. 0.003 min  
Lab File: VV031519.D  
Acq: 15 Jun 2023 10:10

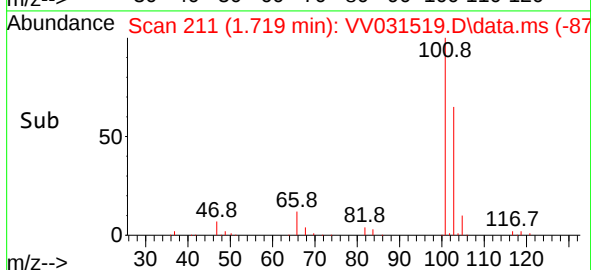
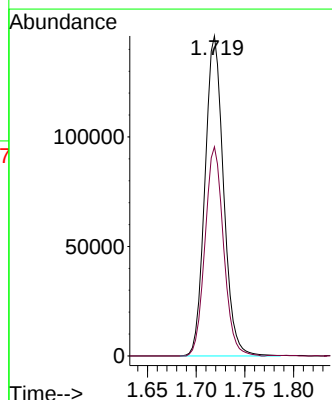
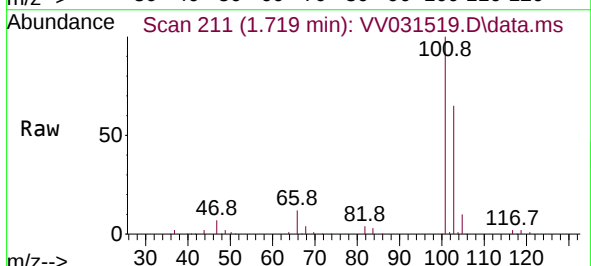
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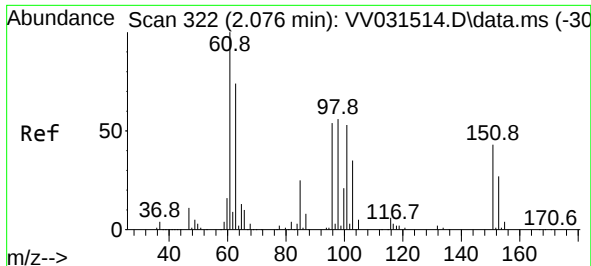
Tgt Ion: 64 Resp: 71961  
Ion Ratio Lower Upper  
64 100  
66 31.5 21.0 39.0



#9  
Trichlorofluoromethane  
Concen: 46.851 ug/L  
RT: 1.719 min Scan# 211  
Delta R.T. -0.000 min  
Lab File: VV031519.D  
Acq: 15 Jun 2023 10:10

Tgt Ion:101 Resp: 193872  
Ion Ratio Lower Upper  
101 100  
103 65.1 50.9 76.3

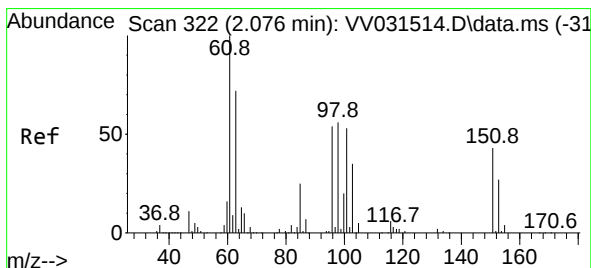
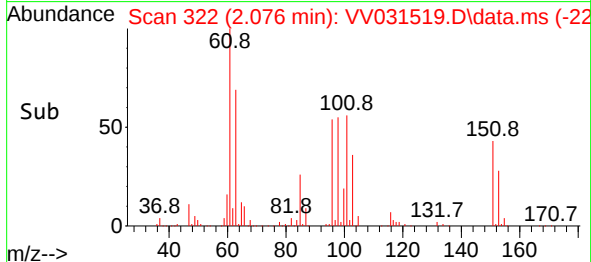
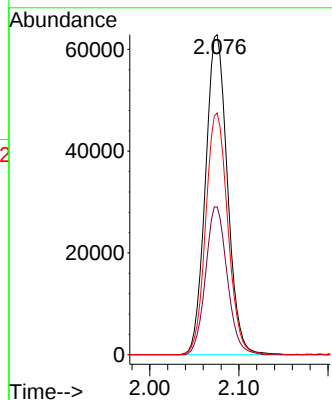
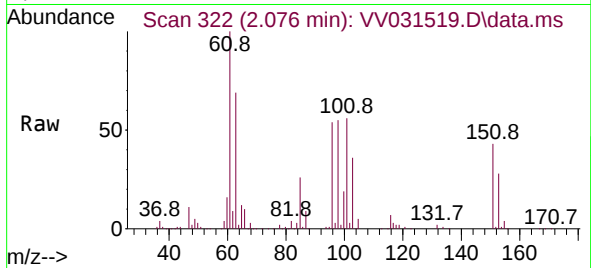




#10  
1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 48.558 ug/L  
RT: 2.076 min Scan# 311  
Delta R.T. -0.000 min  
Lab File: VV031519.D  
Acq: 15 Jun 2023 10:10

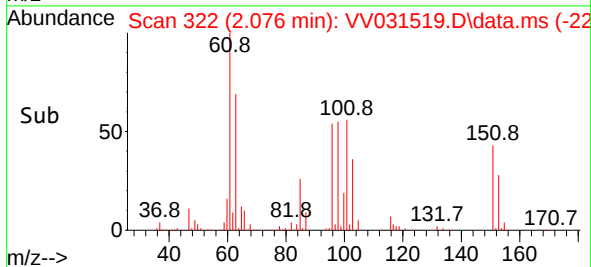
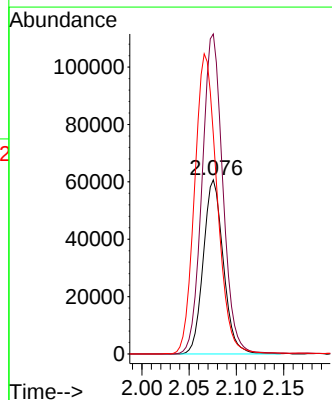
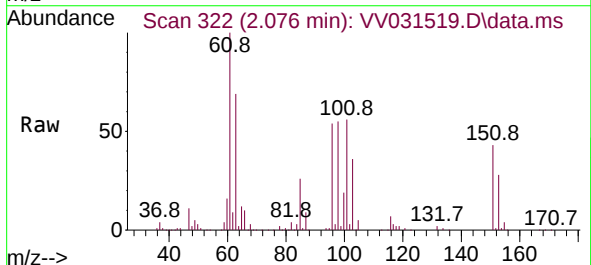
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050371

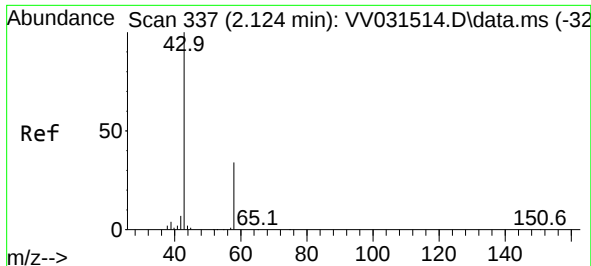
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Ion Ratio Lower Upper  
101 100  
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151 76.0 62.3 93.5



#12  
1,1-Dichloroethene  
Concen: 48.177 ug/L  
RT: 2.076 min Scan# 322  
Delta R.T. -0.000 min  
Lab File: VV031519.D  
Acq: 15 Jun 2023 10:10

Tgt Ion: 96 Resp: 89366  
Ion Ratio Lower Upper  
96 100  
61 183.8 128.9 239.5  
63 126.1 95.3 177.1





#13

Acetone

Concen: 97.459 ug/L

RT: 2.124 min Scan# 337

Delta R.T. -0.000 min

Lab File: VV031519.D

Acq: 15 Jun 2023 10:10

Instrument :

MSVOA\_V

ClientSampleId :

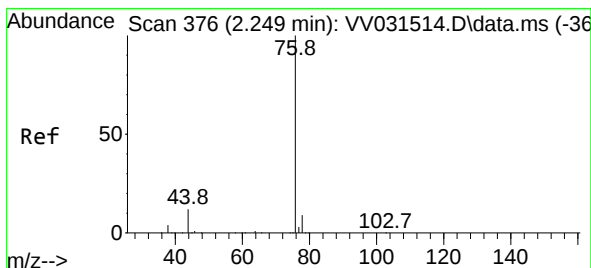
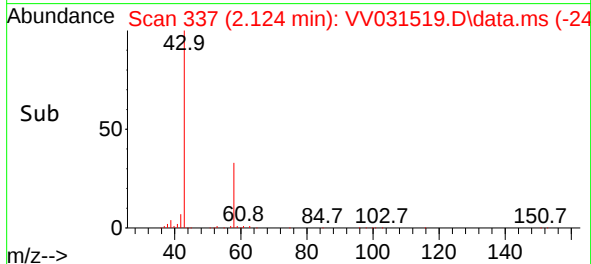
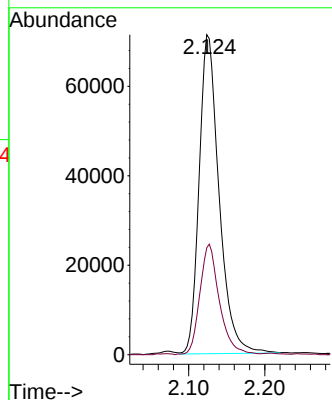
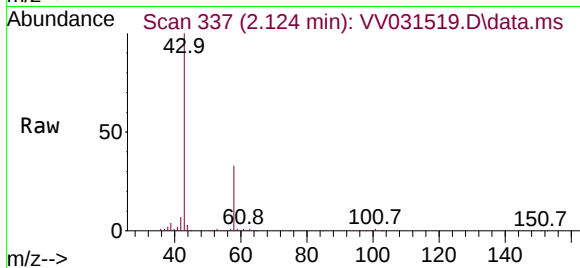
VSTD050371

Tgt Ion: 43 Resp: 129921

Ion Ratio Lower Upper

43 100

58 34.0 0.0 68.6



#14

Carbon disulfide

Concen: 48.838 ug/L

RT: 2.246 min Scan# 375

Delta R.T. -0.003 min

Lab File: VV031519.D

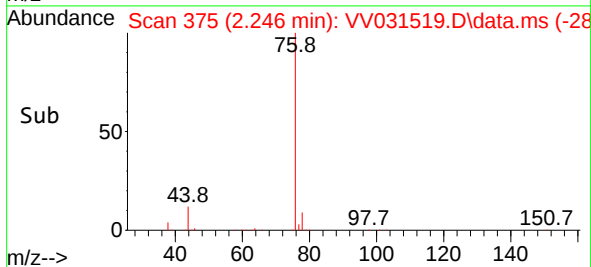
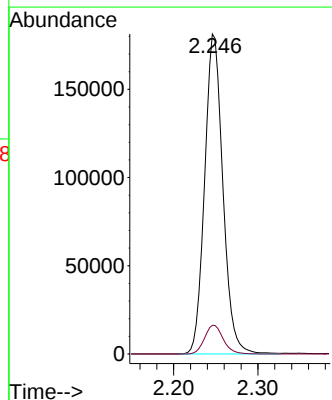
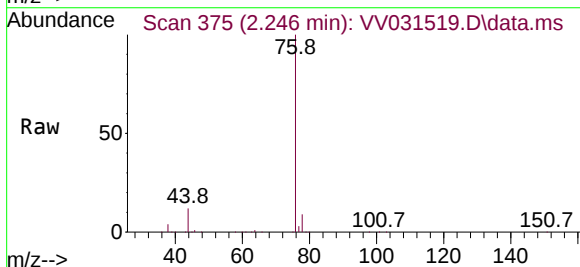
Acq: 15 Jun 2023 10:10

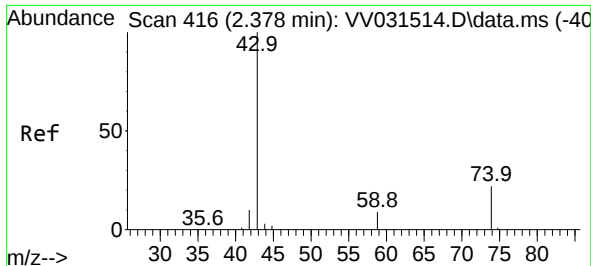
Tgt Ion: 76 Resp: 274030

Ion Ratio Lower Upper

76 100

78 9.0 7.1 10.7

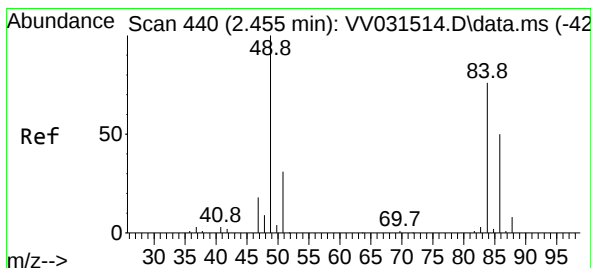
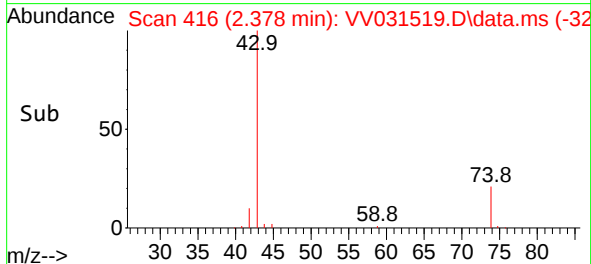
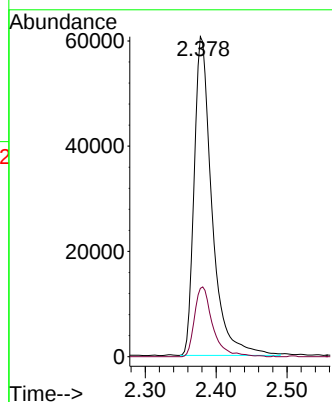
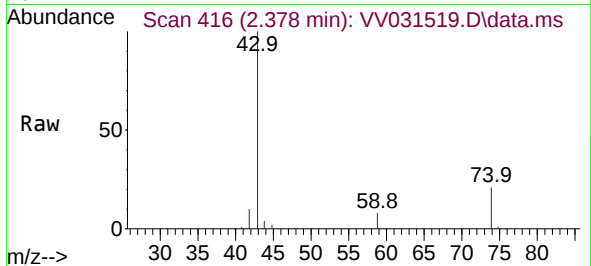




#15  
Methyl Acetate  
Concen: 47.163 ug/L  
RT: 2.378 min Scan# 416  
Delta R.T. -0.000 min  
Lab File: VV031519.D  
Acq: 15 Jun 2023 10:10

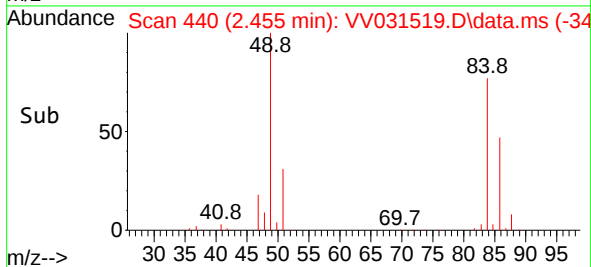
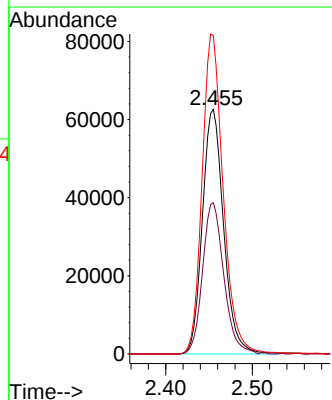
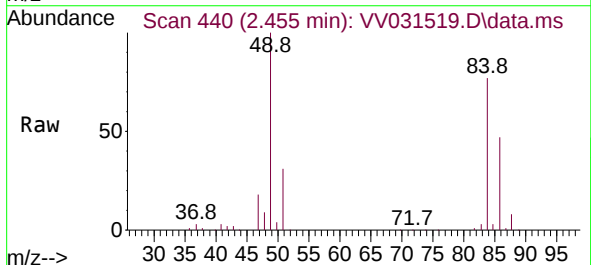
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050371

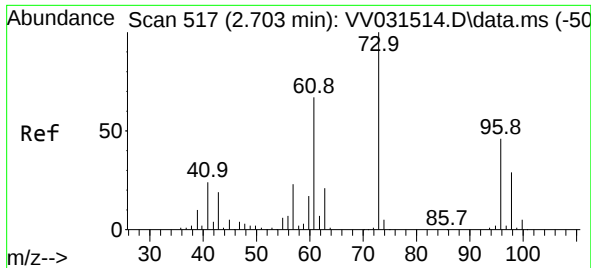
Tgt Ion: 43 Resp: 105854  
Ion Ratio Lower Upper  
43 100  
74 21.5 17.8 26.6



#16  
Methylene chloride  
Concen: 45.875 ug/L  
RT: 2.455 min Scan# 440  
Delta R.T. -0.000 min  
Lab File: VV031519.D  
Acq: 15 Jun 2023 10:10

Tgt Ion: 84 Resp: 106684  
Ion Ratio Lower Upper  
84 100  
86 59.6 45.8 85.0  
49 125.6 92.1 171.1

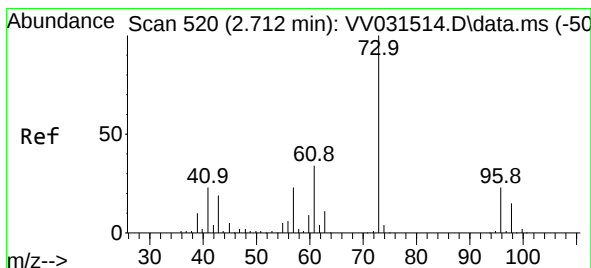
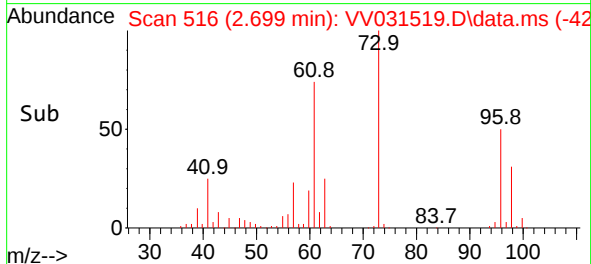
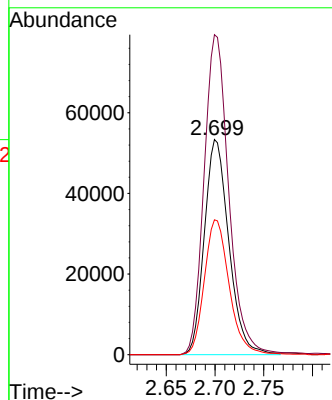
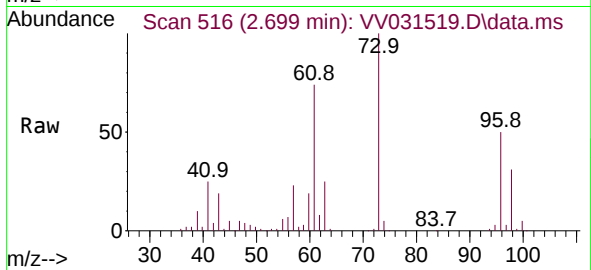




#17  
trans-1,2-Dichloroethene  
Concen: 48.303 ug/L  
RT: 2.699 min Scan# 516  
Delta R.T. -0.003 min  
Lab File: VV031519.D  
Acq: 15 Jun 2023 10:10

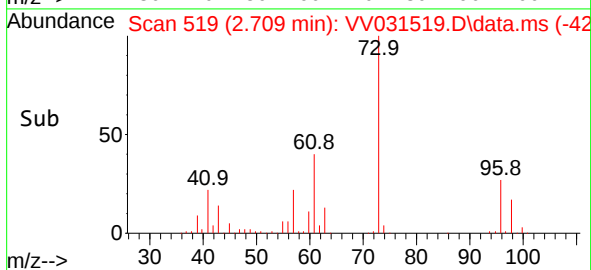
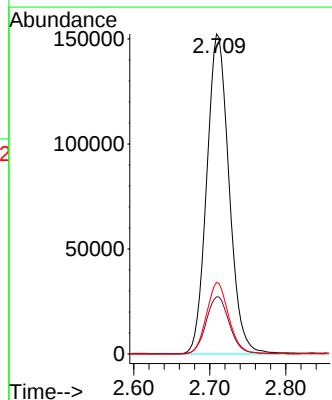
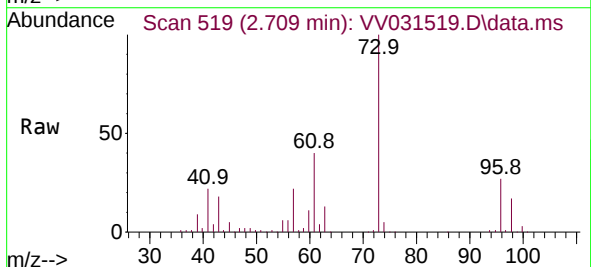
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050371

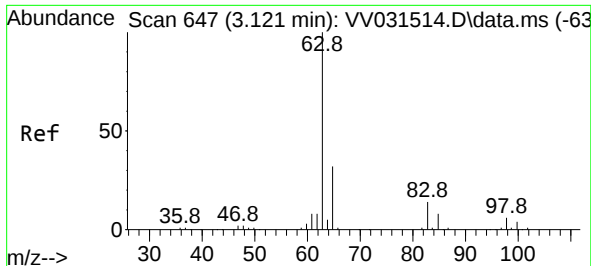
Tgt Ion: 96 Resp: 93527  
Ion Ratio Lower Upper  
96 100  
61 148.7 102.5 190.3  
98 62.6 44.1 81.9



#18  
Methyl tert-butyl Ether  
Concen: 48.105 ug/L  
RT: 2.709 min Scan# 519  
Delta R.T. -0.003 min  
Lab File: VV031519.D  
Acq: 15 Jun 2023 10:10

Tgt Ion: 73 Resp: 310789  
Ion Ratio Lower Upper  
73 100  
43 18.3 15.0 22.4  
57 22.3 18.2 27.4





#19

1,1-Dichloroethane

Concen: 47.576 ug/L

RT: 3.117 min Scan# 64

Delta R.T. -0.003 min

Lab File: VV031519.D

Acq: 15 Jun 2023 10:10

Instrument :

MSVOA\_V

ClientSampleId :

VSTD050371

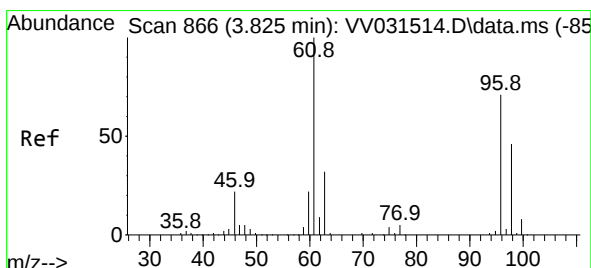
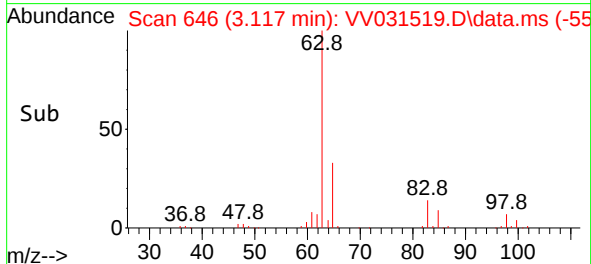
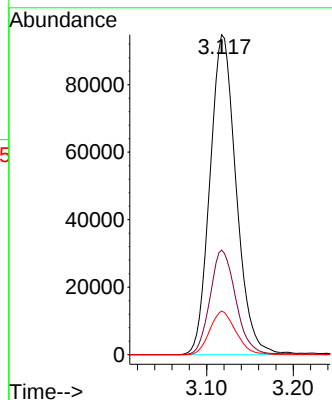
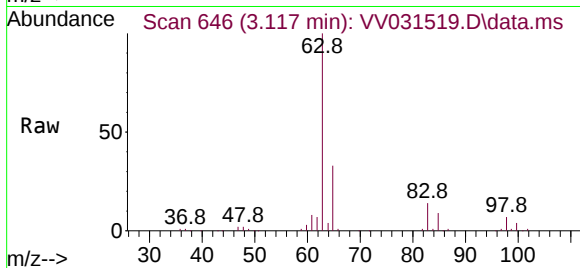
Tgt Ion: 63 Resp: 198820

Ion Ratio Lower Upper

63 100

65 32.7 22.5 41.7

83 13.6 10.0 18.6



#20

cis-1,2-Dichloroethene

Concen: 47.511 ug/L

RT: 3.821 min Scan# 865

Delta R.T. -0.003 min

Lab File: VV031519.D

Acq: 15 Jun 2023 10:10

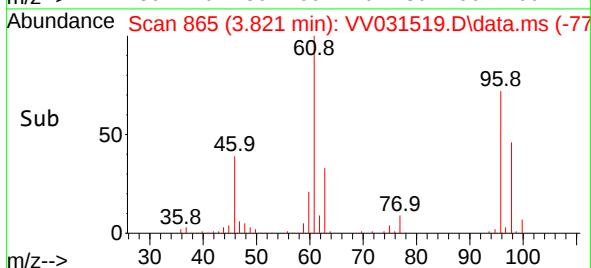
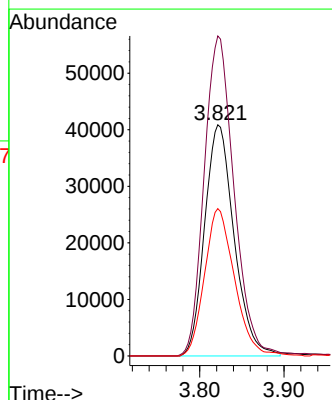
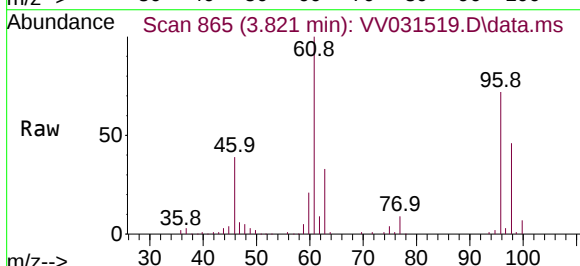
Tgt Ion: 96 Resp: 99417

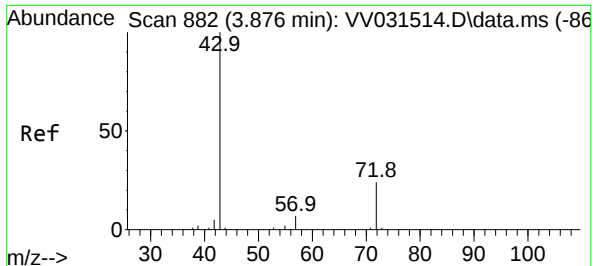
Ion Ratio Lower Upper

96 100

61 133.7 98.6 183.0

98 63.0 45.7 84.9

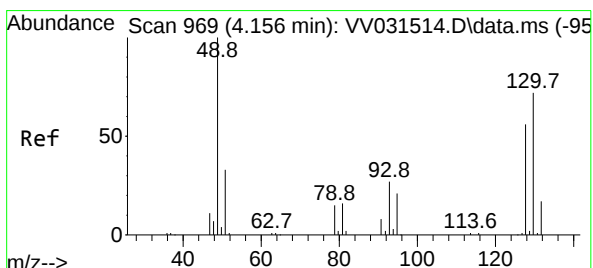
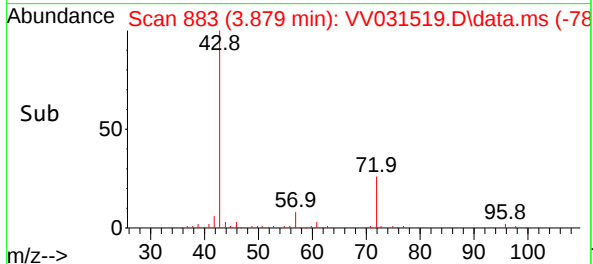
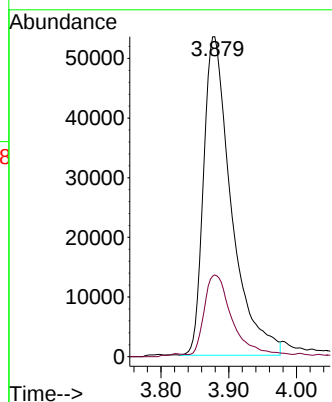
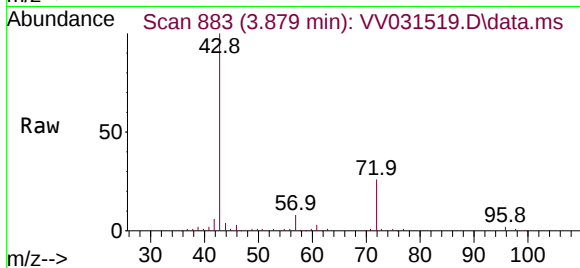




#22  
2-Butanone  
Concen: 91.398 ug/L  
RT: 3.879 min Scan# 882  
Delta R.T. 0.003 min  
Lab File: VV031519.D  
Acq: 15 Jun 2023 10:10

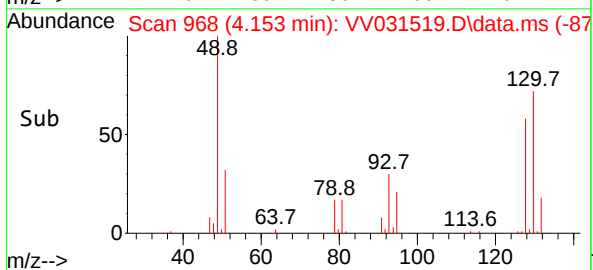
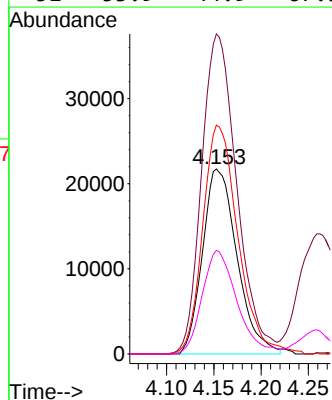
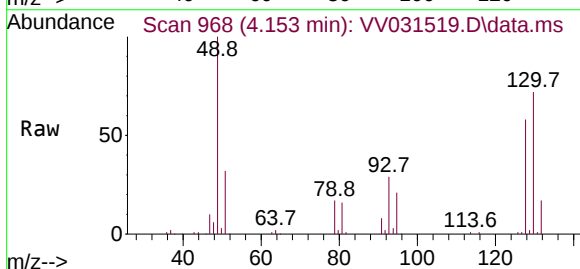
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050371

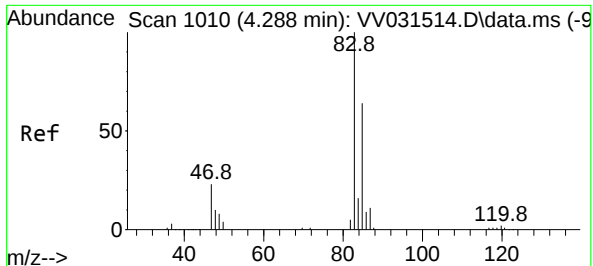
Tgt Ion: 43 Resp: 152210  
Ion Ratio Lower Upper  
43 100  
72 24.4 12.2 36.4



#23  
Bromochloromethane  
Concen: 48.819 ug/L  
RT: 4.153 min Scan# 968  
Delta R.T. -0.003 min  
Lab File: VV031519.D  
Acq: 15 Jun 2023 10:10

Tgt Ion:128 Resp: 55219  
Ion Ratio Lower Upper  
128 100  
49 166.2 120.6 224.0  
130 120.8 88.1 163.7  
51 53.9 44.9 67.3





#25

Chloroform

Concen: 47.833 ug/L

RT: 4.284 min Scan# 1010

Delta R.T. -0.003 min

Lab File: VV031519.D

Acq: 15 Jun 2023 10:10

Instrument :

MSVOA\_V

ClientSampleId :

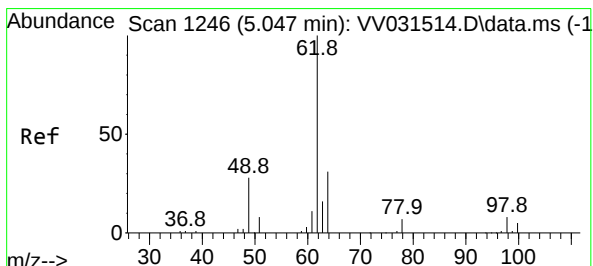
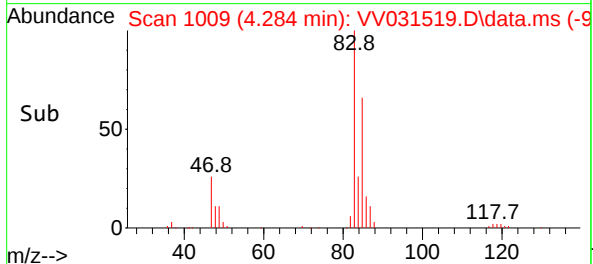
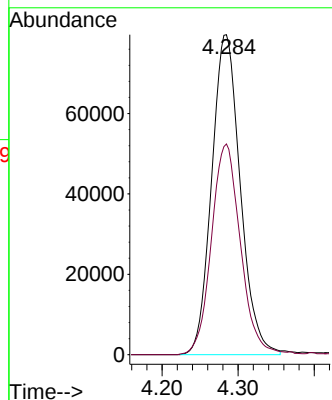
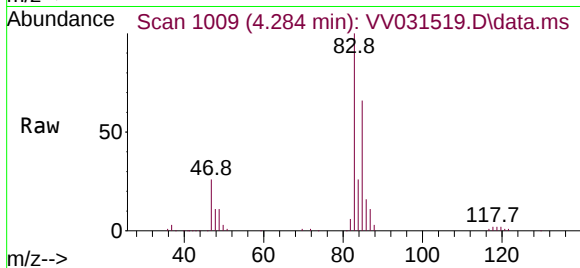
VSTD050371

Tgt Ion: 83 Resp: 207796

Ion Ratio Lower Upper

83 100

85 65.8 45.3 84.1



#27

1,2-Dichloroethane

Concen: 48.101 ug/L

RT: 5.047 min Scan# 1246

Delta R.T. -0.000 min

Lab File: VV031519.D

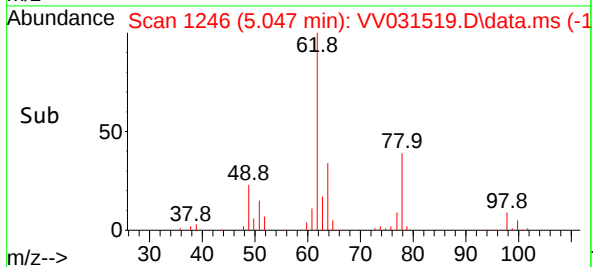
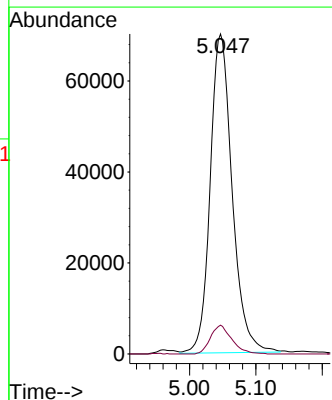
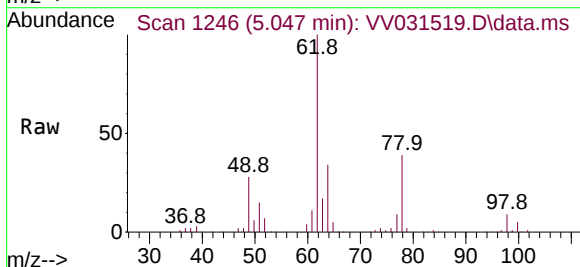
Acq: 15 Jun 2023 10:10

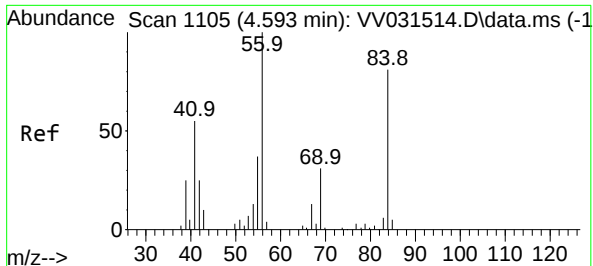
Tgt Ion: 62 Resp: 161271

Ion Ratio Lower Upper

62 100

98 9.0 6.6 9.8





#29

Cyclohexane

Concen: 50.415 ug/L

RT: 4.593 min Scan# 1105

Delta R.T. -0.000 min

Lab File: VV031519.D

Acq: 15 Jun 2023 10:10

Instrument :

MSVOA\_V

ClientSampleId :

VSTD050371

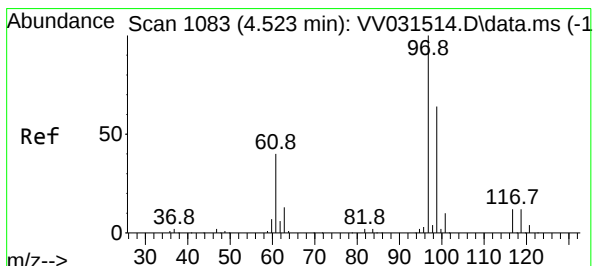
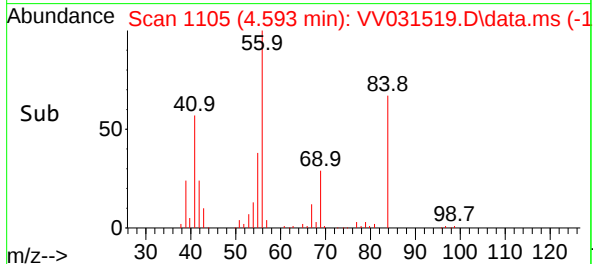
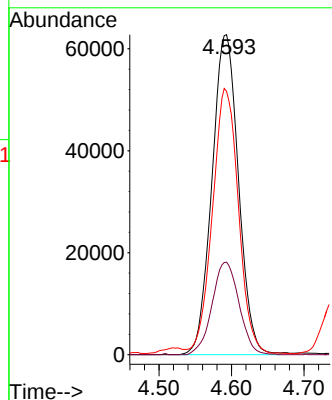
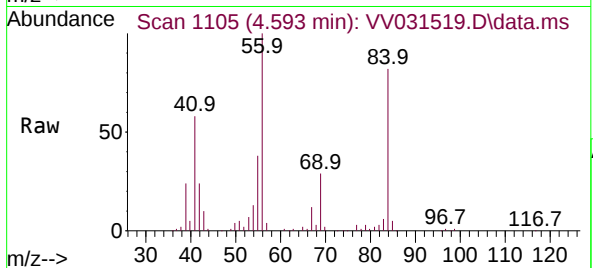
Tgt Ion: 56 Resp: 159572

Ion Ratio Lower Upper

56 100

69 29.4 24.3 36.5

84 80.6 65.0 97.6



#30

1,1,1-Trichloroethane

Concen: 49.063 ug/L

RT: 4.519 min Scan# 1082

Delta R.T. -0.003 min

Lab File: VV031519.D

Acq: 15 Jun 2023 10:10

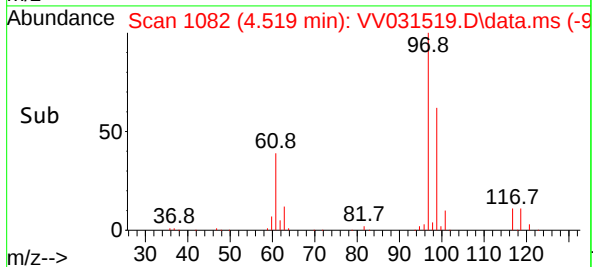
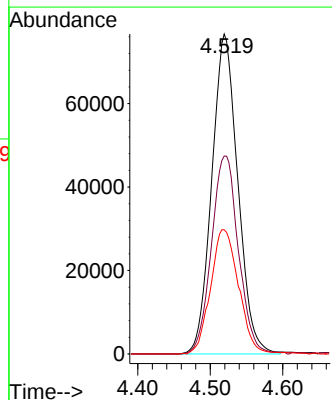
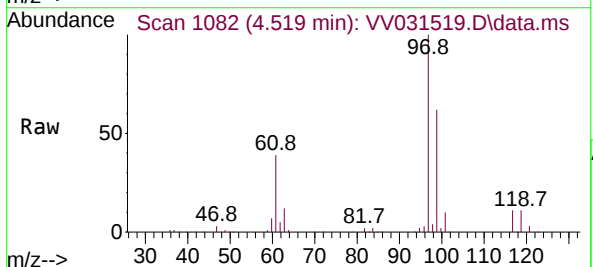
Tgt Ion: 97 Resp: 191370

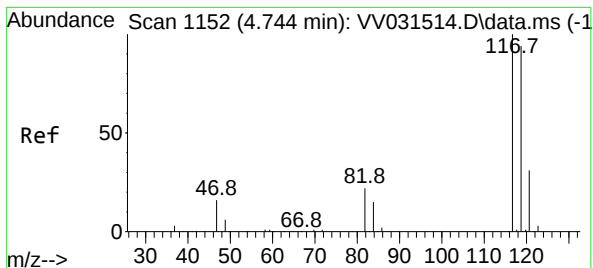
Ion Ratio Lower Upper

97 100

99 64.1 51.8 77.6

61 41.8 33.0 49.6





#31

Carbon tetrachloride

Concen: 48.868 ug/L

RT: 4.741 min Scan# 1151

Delta R.T. -0.003 min

Lab File: VV031519.D

Acq: 15 Jun 2023 10:10

Instrument :

MSVOA\_V

ClientSampleId :

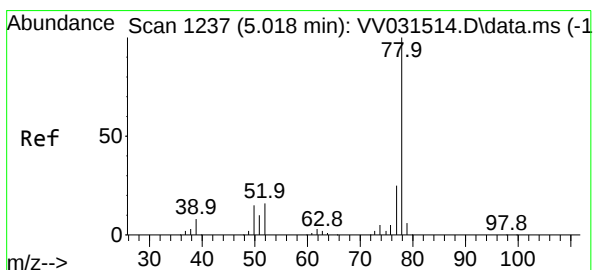
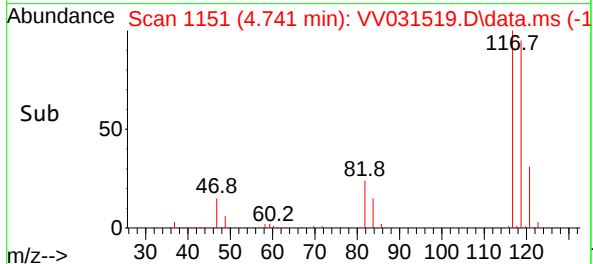
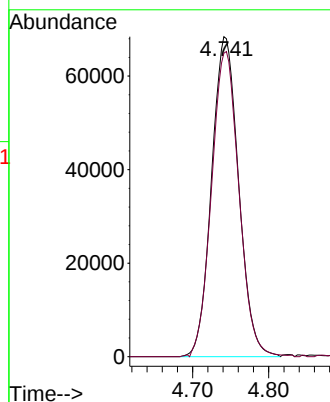
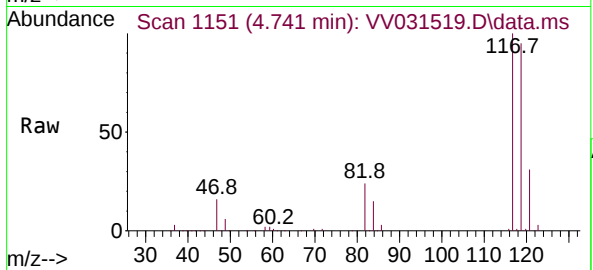
VSTD050371

Tgt Ion:117 Resp: 168887

Ion Ratio Lower Upper

117 100

119 96.5 76.2 114.4



#33

Benzene

Concen: 50.124 ug/L

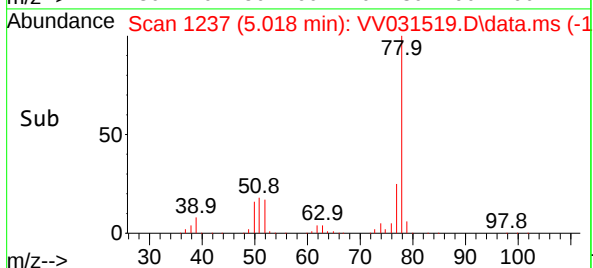
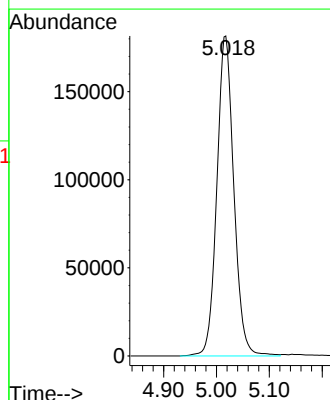
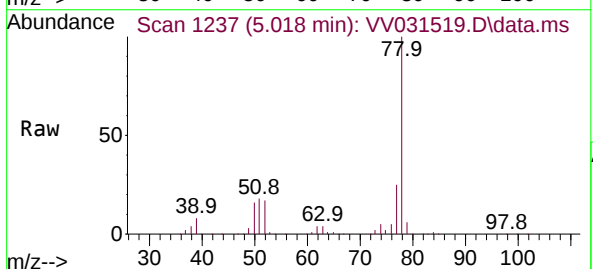
RT: 5.018 min Scan# 1237

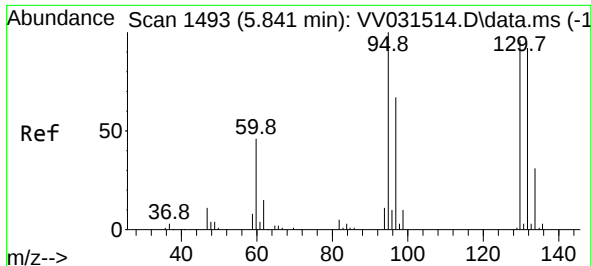
Delta R.T. -0.000 min

Lab File: VV031519.D

Acq: 15 Jun 2023 10:10

Tgt Ion: 78 Resp: 405989

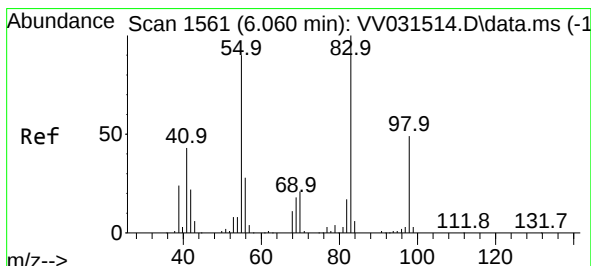
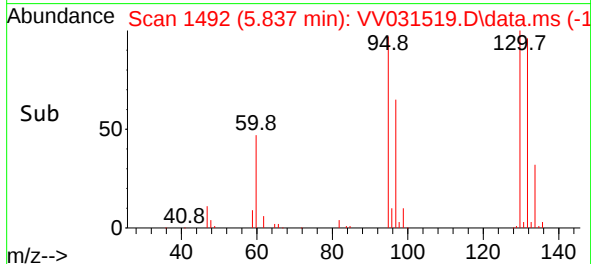
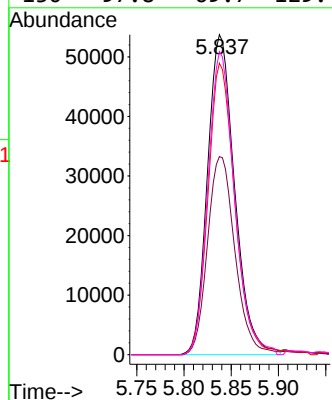
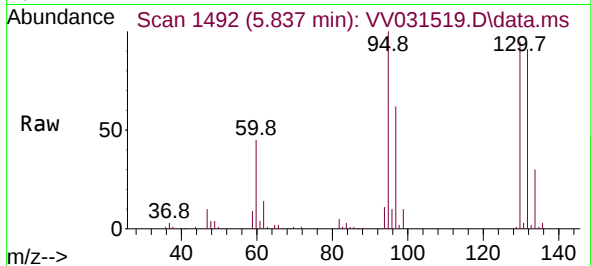




#34  
Trichloroethene  
Concen: 49.634 ug/L  
RT: 5.837 min Scan# 1492  
Delta R.T. -0.003 min  
Lab File: VV031519.D  
Acq: 15 Jun 2023 10:10

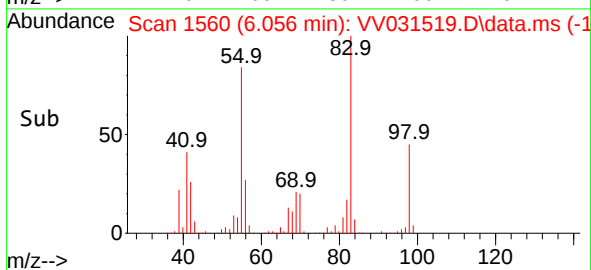
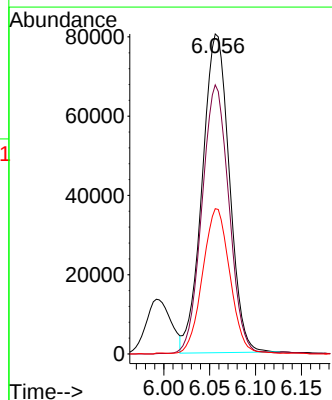
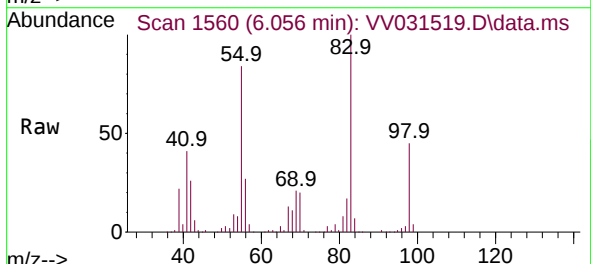
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050371

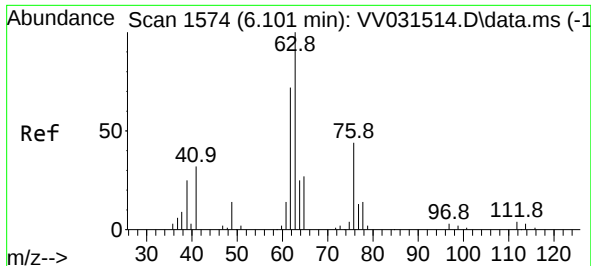
Tgt Ion: 95 Resp: 107427  
Ion Ratio Lower Upper  
95 100  
97 64.3 46.8 86.8  
132 93.6 66.4 123.2  
130 97.8 69.7 129.4



#35  
Methylcyclohexane  
Concen: 51.799 ug/L  
RT: 6.056 min Scan# 1560  
Delta R.T. -0.003 min  
Lab File: VV031519.D  
Acq: 15 Jun 2023 10:10

Tgt Ion: 83 Resp: 165191  
Ion Ratio Lower Upper  
83 100  
55 83.9 68.7 103.1  
98 46.2 37.0 55.4





#37

1,2-Dichloropropane

Concen: 49.344 ug/L

RT: 6.098 min Scan# 1

Delta R.T. -0.003 min

Lab File: VV031519.D

Acq: 15 Jun 2023 10:10

Instrument :

MSVOA\_V

ClientSampleId :

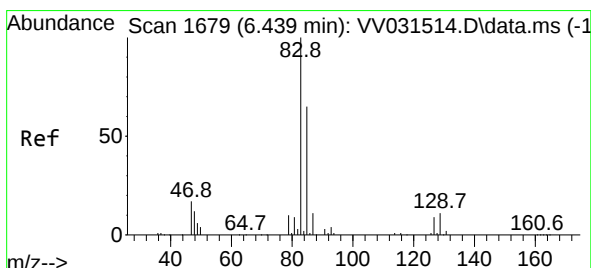
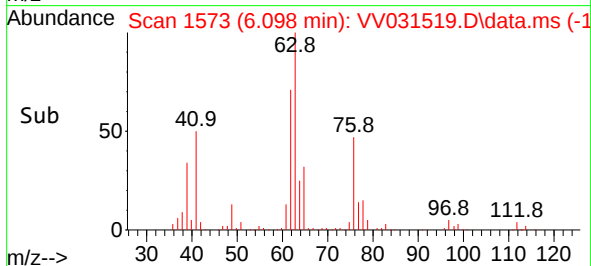
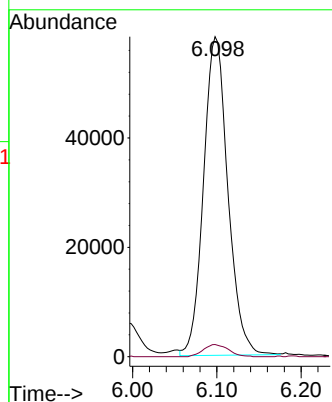
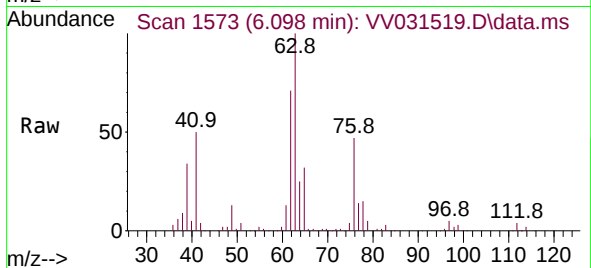
VSTD050371

Tgt Ion: 63 Resp: 117362

Ion Ratio Lower Upper

63 100

112 3.9 3.3 4.9



#38

Bromodichloromethane

Concen: 49.044 ug/L

RT: 6.439 min Scan# 1679

Delta R.T. -0.000 min

Lab File: VV031519.D

Acq: 15 Jun 2023 10:10

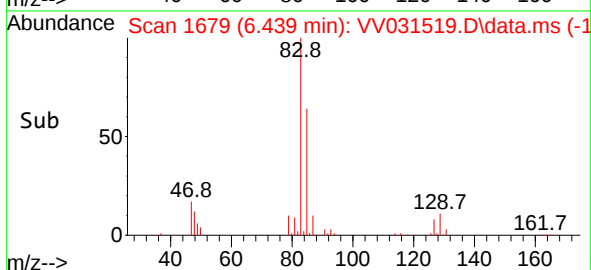
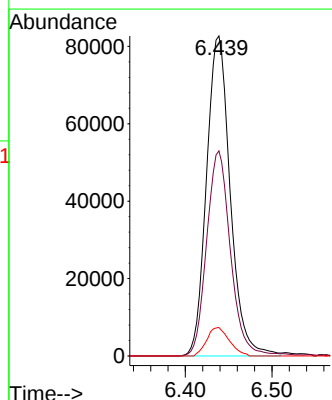
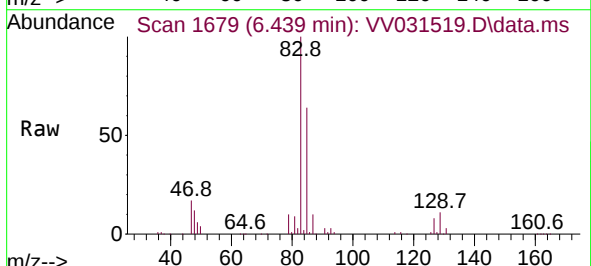
Tgt Ion: 83 Resp: 157668

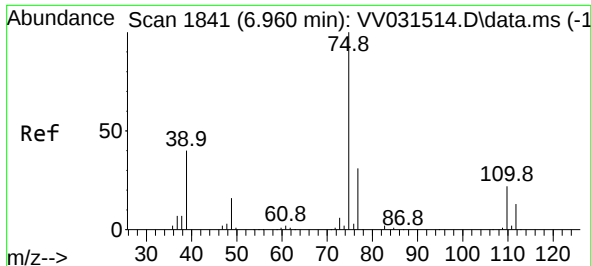
Ion Ratio Lower Upper

83 100

85 64.9 45.3 84.1

127 8.9 7.6 11.4





#39

cis-1,3-Dichloropropene

Concen: 49.296 ug/L

RT: 6.956 min Scan# 11

Delta R.T. -0.003 min

Lab File: VV031519.D

Acq: 15 Jun 2023 10:10

Instrument :

MSVOA\_V

ClientSampleId :

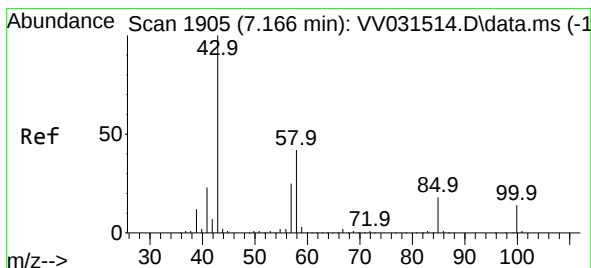
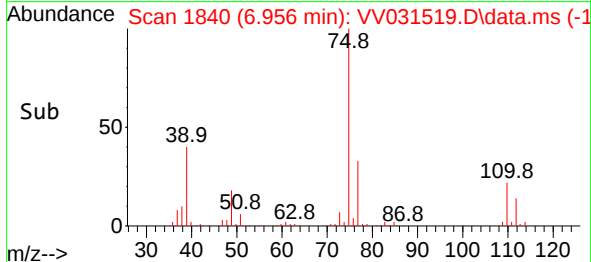
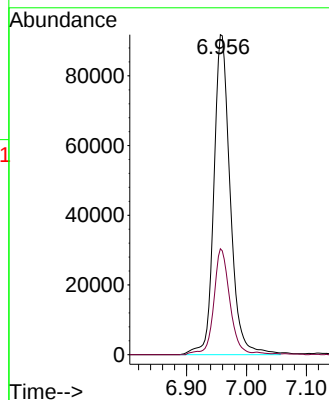
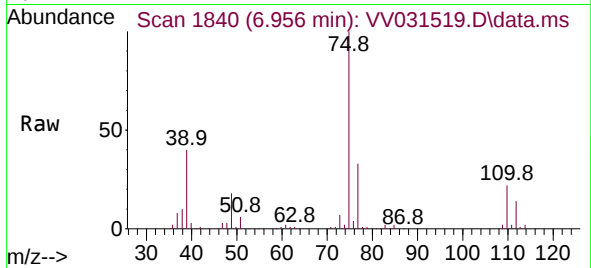
VSTD050371

Tgt Ion: 75 Resp: 174045

Ion Ratio Lower Upper

75 100

77 33.1 21.8 40.6



#40

4-Methyl-2-pentanone

Concen: 99.971 ug/L

RT: 7.162 min Scan# 1904

Delta R.T. -0.003 min

Lab File: VV031519.D

Acq: 15 Jun 2023 10:10

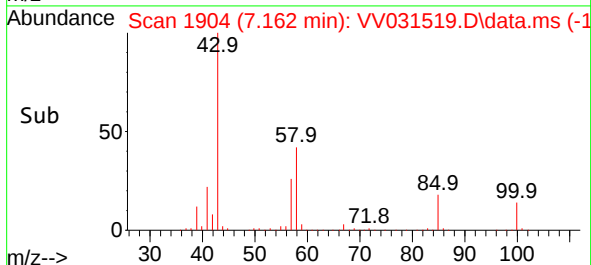
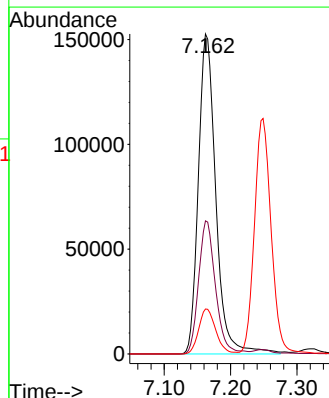
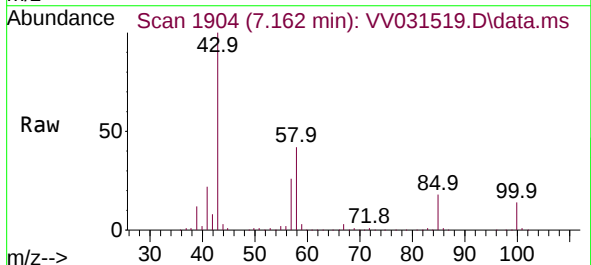
Tgt Ion: 43 Resp: 279197

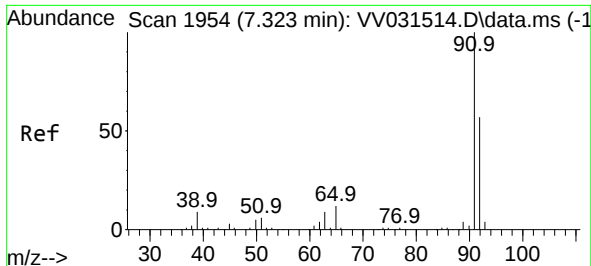
Ion Ratio Lower Upper

43 100

58 40.4 31.8 47.8

100 13.8 11.1 16.7





#42

Toluene

Concen: 51.674 ug/L

RT: 7.320 min Scan# 1954

Delta R.T. -0.003 min

Lab File: VV031519.D

Acq: 15 Jun 2023 10:10

Instrument :

MSVOA\_V

ClientSampleId :

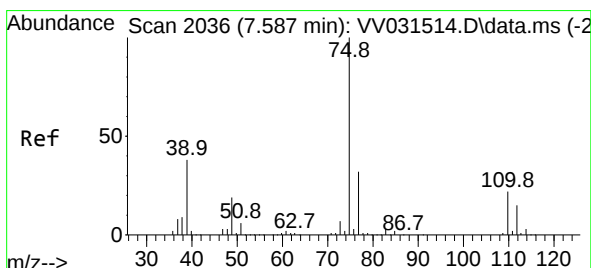
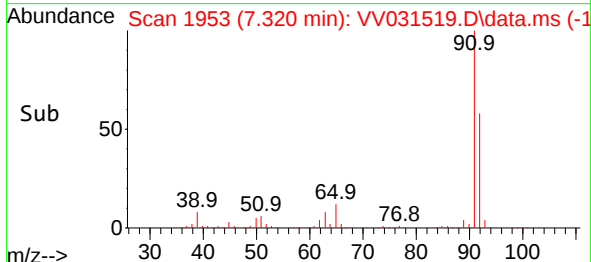
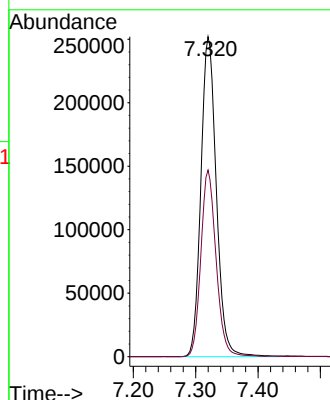
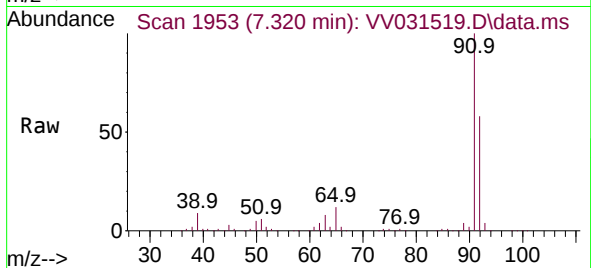
VSTD050371

Tgt Ion: 91 Resp: 433958

Ion Ratio Lower Upper

91 100

92 58.3 39.6 73.6



#44

trans-1,3-Dichloropropene

Concen: 49.992 ug/L

RT: 7.587 min Scan# 2036

Delta R.T. -0.000 min

Lab File: VV031519.D

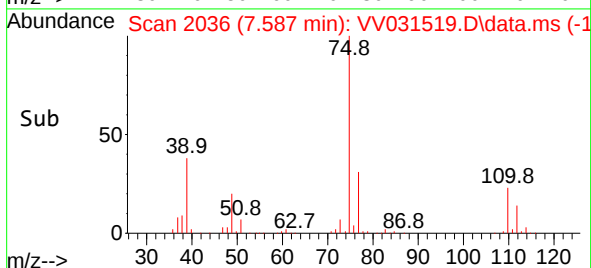
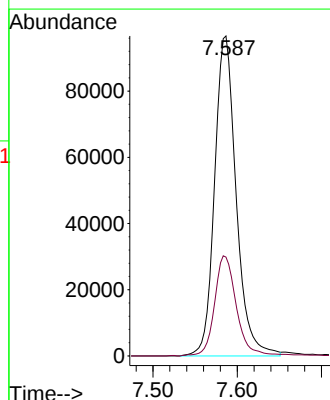
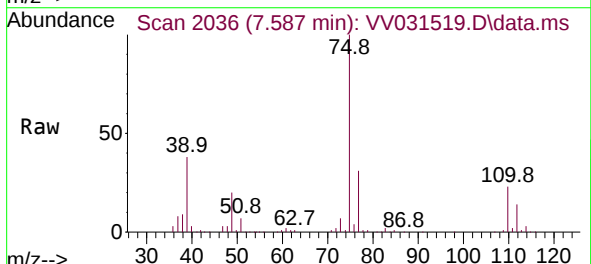
Acq: 15 Jun 2023 10:10

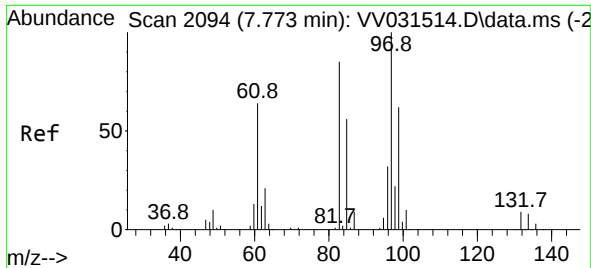
Tgt Ion: 75 Resp: 171884

Ion Ratio Lower Upper

75 100

77 30.9 22.1 41.1



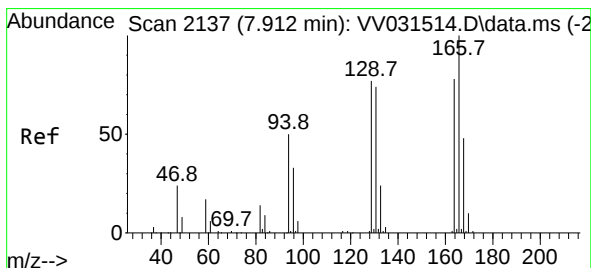
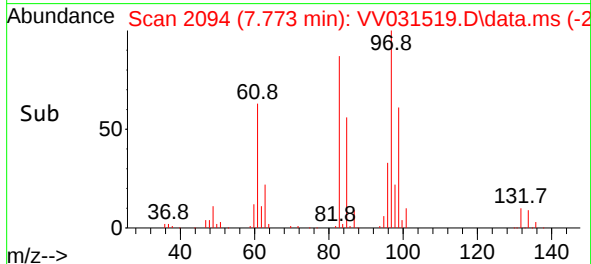
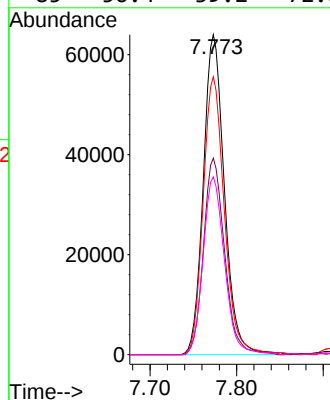
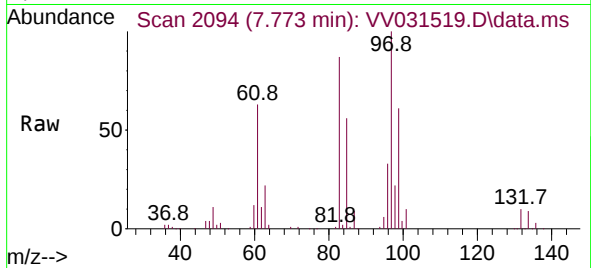


#45  
1,1,2-Trichloroethane  
Concen: 48.246 ug/L  
RT: 7.773 min Scan# 2094  
Delta R.T. -0.000 min  
Lab File: VV031519.D  
Acq: 15 Jun 2023 10:10

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050371

Tgt Ion: 97 Resp: 108400

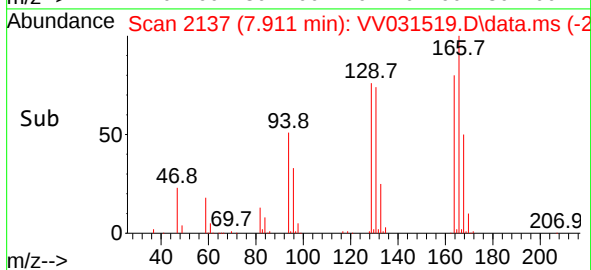
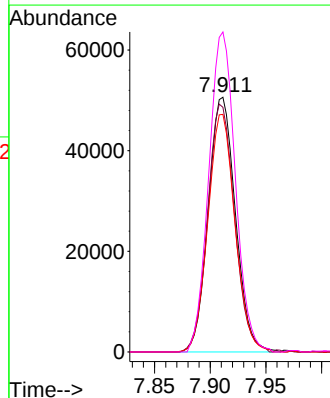
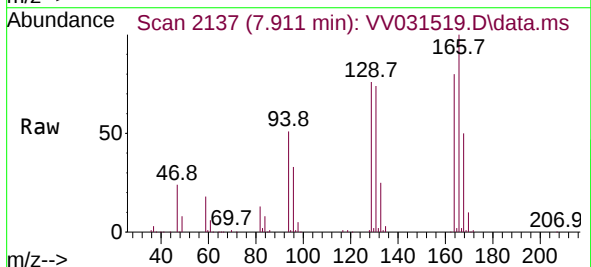
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 99  | 65.7  | 43.7  | 81.1  |
| 83  | 88.6  | 60.9  | 113.1 |
| 85  | 56.4  | 39.2  | 72.8  |

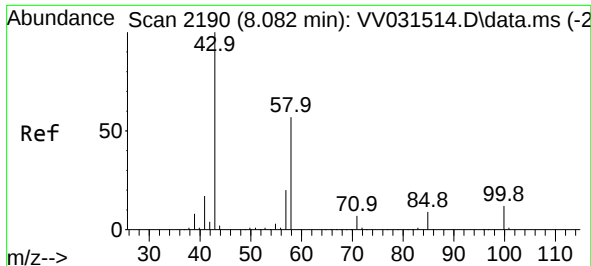


#46  
Tetrachloroethene  
Concen: 50.513 ug/L  
RT: 7.911 min Scan# 2137  
Delta R.T. -0.000 min  
Lab File: VV031519.D  
Acq: 15 Jun 2023 10:10

Tgt Ion: 164 Resp: 85807

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 129 | 98.4  | 68.4  | 127.0 |
| 131 | 95.1  | 67.6  | 125.6 |
| 166 | 125.6 | 91.3  | 169.5 |



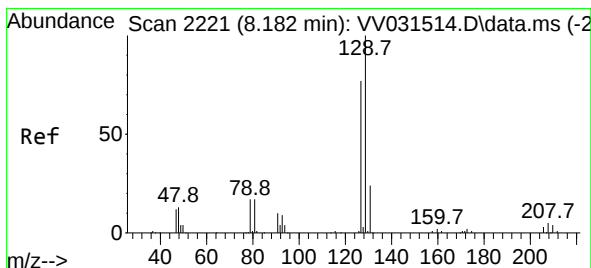
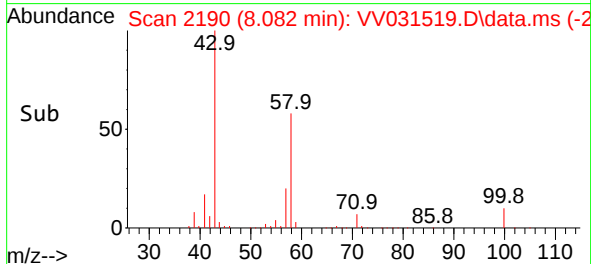
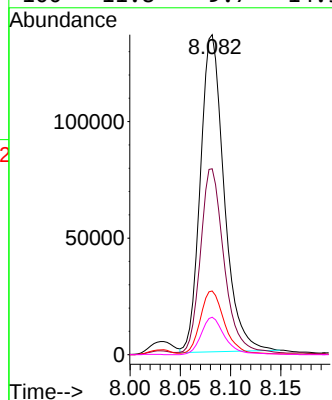
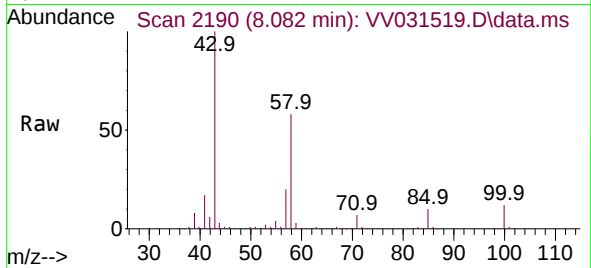


#48  
2-Hexanone  
Concen: 100.197 ug/L  
RT: 8.082 min Scan# 2190  
Delta R.T. -0.000 min  
Lab File: VV031519.D  
Acq: 15 Jun 2023 10:10

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050371

Tgt Ion: 43 Resp: 223487

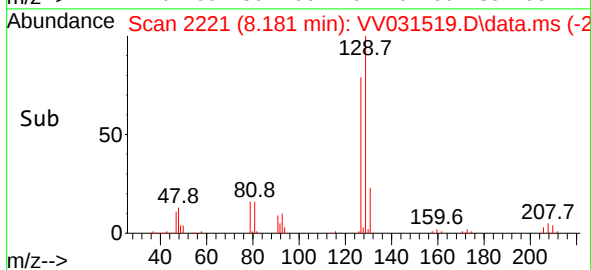
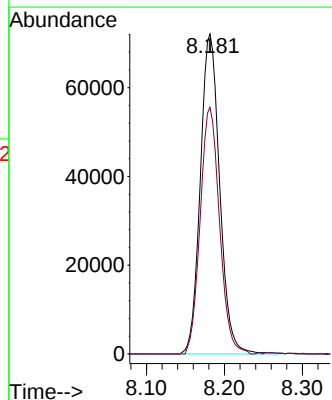
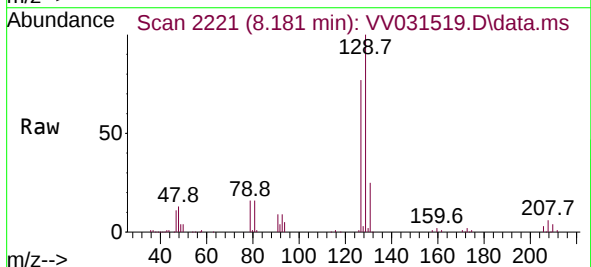
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 58.5  | 46.7  | 70.1  |
| 57  | 20.8  | 15.5  | 23.3  |
| 100 | 11.8  | 9.7   | 14.5  |

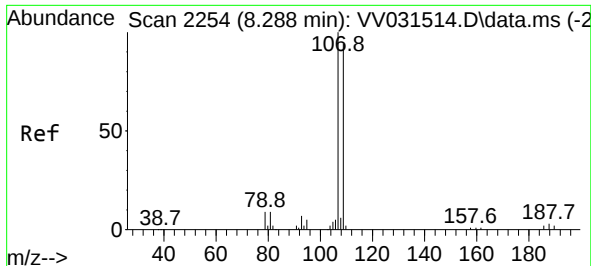


#49  
Dibromochloromethane  
Concen: 49.820 ug/L  
RT: 8.181 min Scan# 2221  
Delta R.T. -0.000 min  
Lab File: VV031519.D  
Acq: 15 Jun 2023 10:10

Tgt Ion: 129 Resp: 124406

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 129 | 100   |       |       |
| 127 | 79.6  | 55.8  | 103.6 |

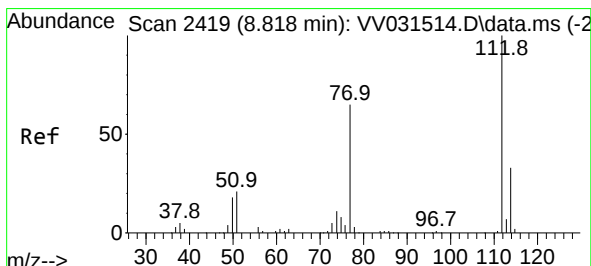
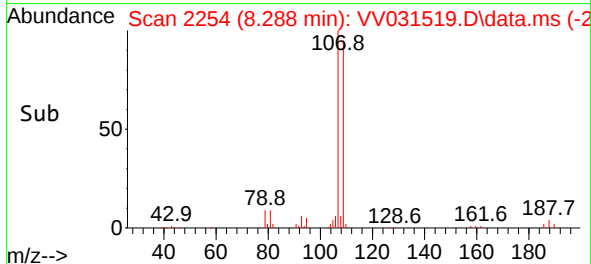
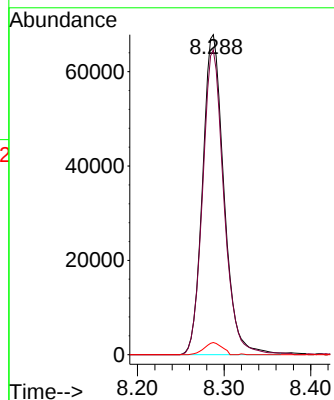
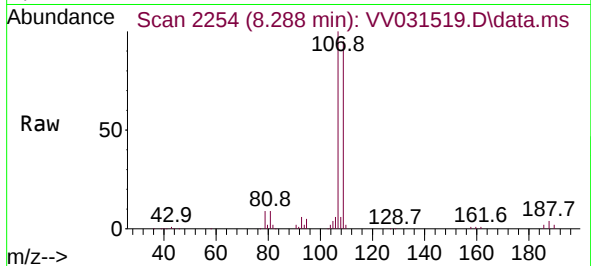




#50  
1,2-Dibromoethane  
Concen: 48.609 ug/L  
RT: 8.288 min Scan# 211  
Delta R.T. -0.000 min  
Lab File: VV031519.D  
Acq: 15 Jun 2023 10:10

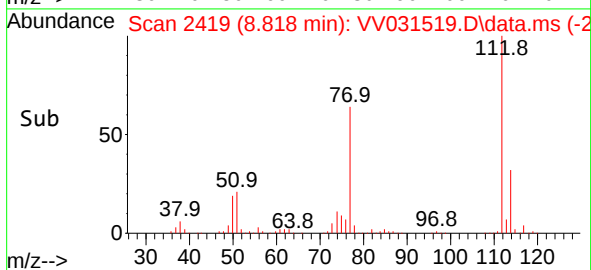
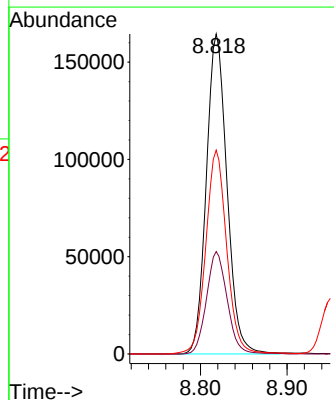
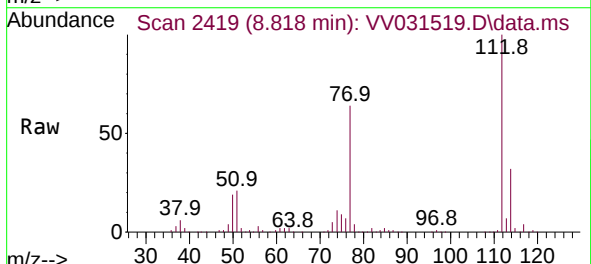
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050371

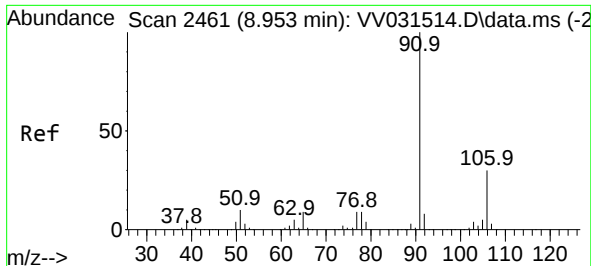
Tgt Ion:107 Resp: 116292  
Ion Ratio Lower Upper  
107 100  
109 95.2 65.7 122.1  
188 3.8 2.6 4.0



#51  
Chlorobenzene  
Concen: 48.998 ug/L  
RT: 8.818 min Scan# 2419  
Delta R.T. -0.000 min  
Lab File: VV031519.D  
Acq: 15 Jun 2023 10:10

Tgt Ion:112 Resp: 272527  
Ion Ratio Lower Upper  
112 100  
114 32.0 22.9 42.5  
77 63.7 52.5 78.7





#52

Ethylbenzene

Concen: 50.992 ug/L

RT: 8.950 min Scan# 2461

Delta R.T. -0.003 min

Lab File: VV031519.D

Acq: 15 Jun 2023 10:10

Instrument :

MSVOA\_V

ClientSampleId :

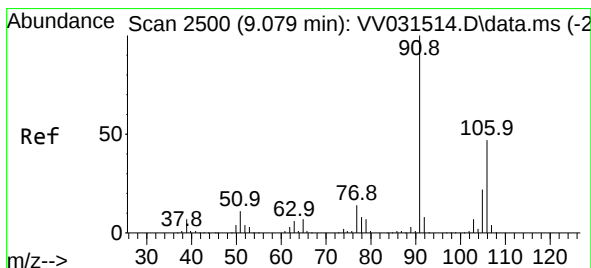
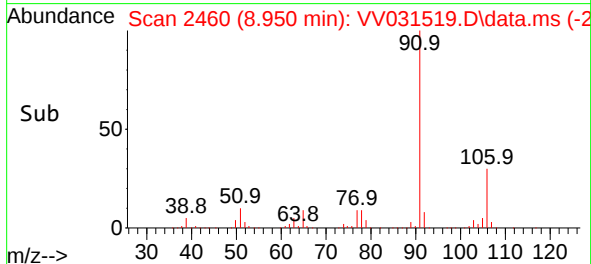
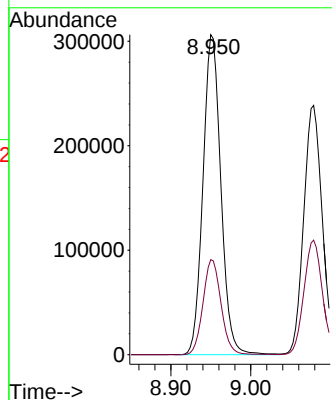
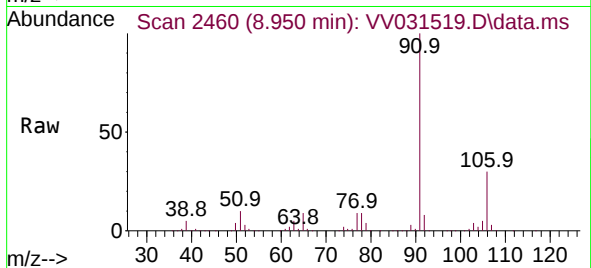
VSTD050371

Tgt Ion: 91 Resp: 477832

Ion Ratio Lower Upper

91 100

106 29.7 20.8 38.6



#53

m,p-Xylene

Concen: 51.661 ug/L

RT: 9.078 min Scan# 2500

Delta R.T. -0.000 min

Lab File: VV031519.D

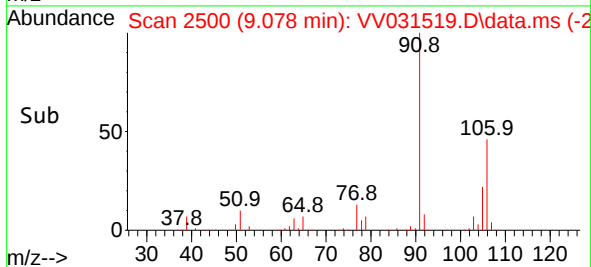
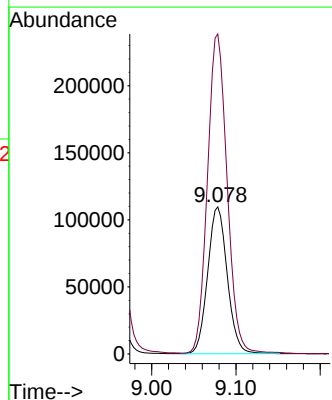
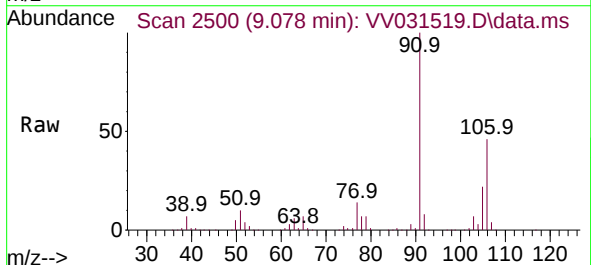
Acq: 15 Jun 2023 10:10

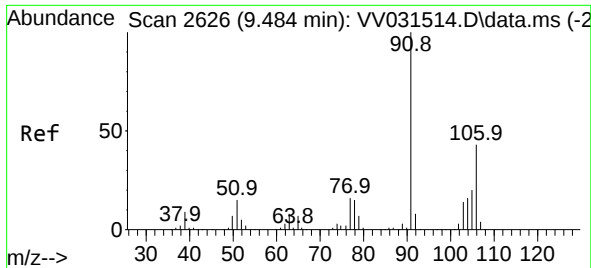
Tgt Ion:106 Resp: 177284

Ion Ratio Lower Upper

106 100

91 217.7 149.0 276.6

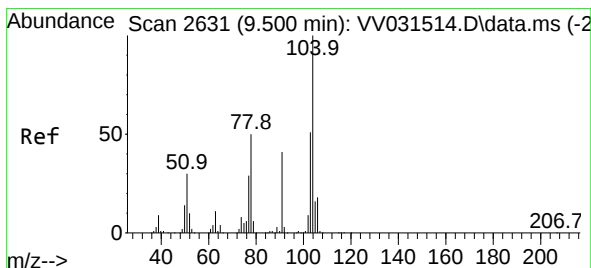
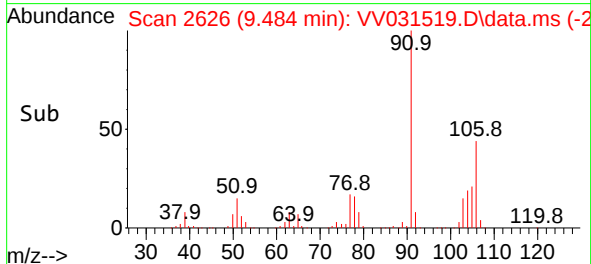
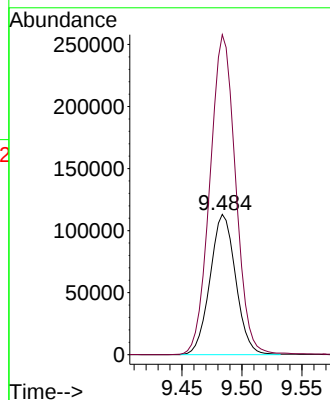
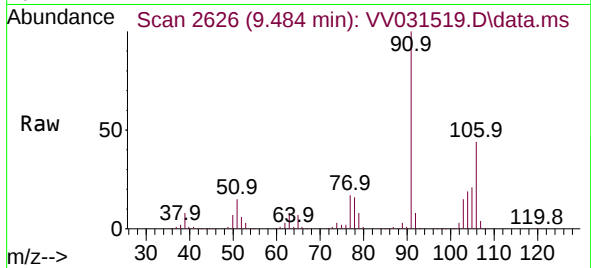




#54  
o-Xylene  
Concen: 51.565 ug/L  
RT: 9.484 min Scan# 2626  
Delta R.T. -0.000 min  
Lab File: VV031519.D  
Acq: 15 Jun 2023 10:10

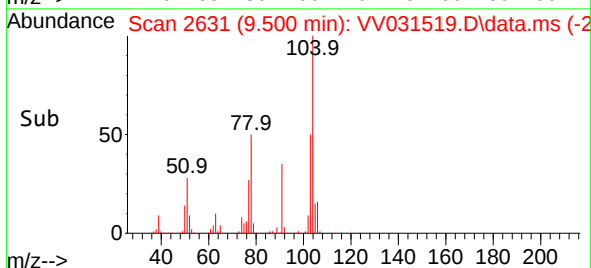
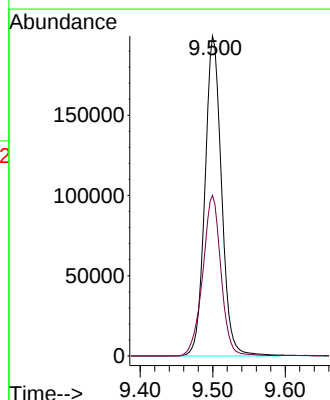
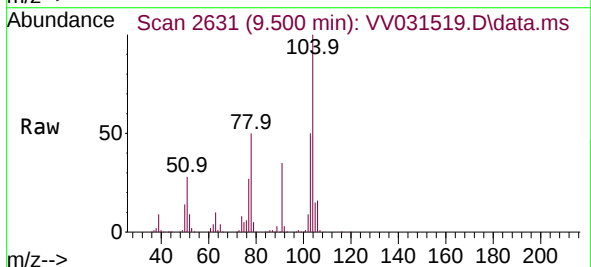
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050371

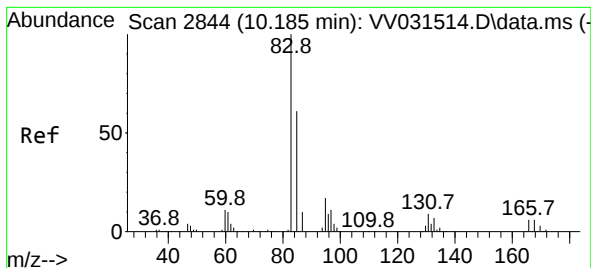
Tgt Ion:106 Resp: 167927  
Ion Ratio Lower Upper  
106 100  
91 228.1 161.3 299.7



#55  
Styrene  
Concen: 54.537 ug/L  
RT: 9.500 min Scan# 2631  
Delta R.T. -0.000 min  
Lab File: VV031519.D  
Acq: 15 Jun 2023 10:10

Tgt Ion:104 Resp: 317193  
Ion Ratio Lower Upper  
104 100  
78 50.2 35.1 65.3





#57

1,1,2,2-Tetrachloroethane

Concen: 48.623 ug/L

RT: 10.181 min Scan# 2844

Delta R.T. -0.003 min

Lab File: VV031519.D

Acq: 15 Jun 2023 10:10

Instrument :

MSVOA\_V

ClientSampleId :

VSTD050371

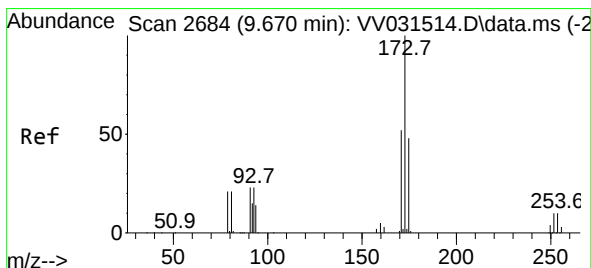
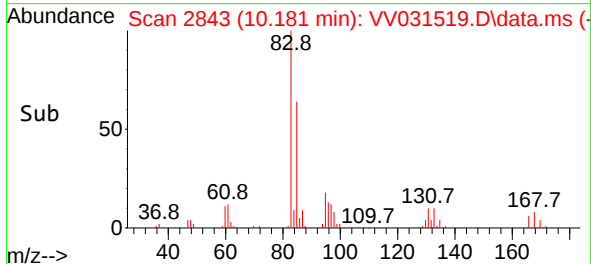
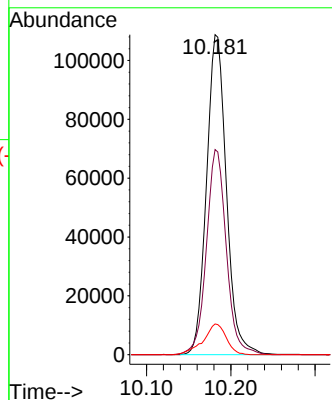
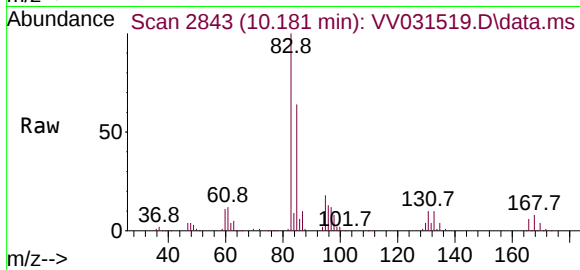
Tgt Ion: 83 Resp: 178502

Ion Ratio Lower Upper

83 100

85 64.1 43.1 80.1

131 13.4 10.6 16.0



#59

Bromoform

Concen: 49.446 ug/L

RT: 9.670 min Scan# 2684

Delta R.T. -0.000 min

Lab File: VV031519.D

Acq: 15 Jun 2023 10:10

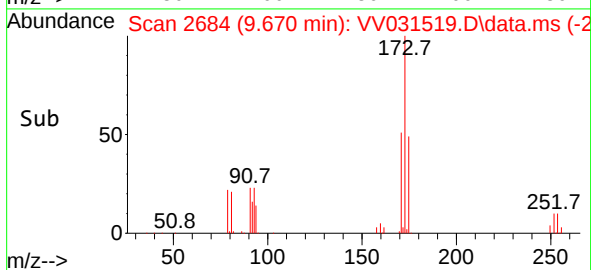
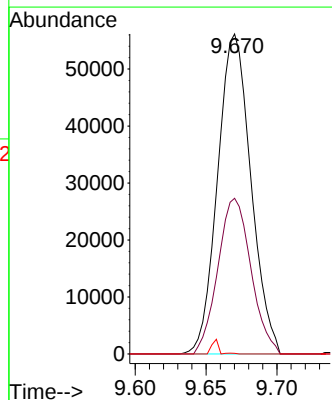
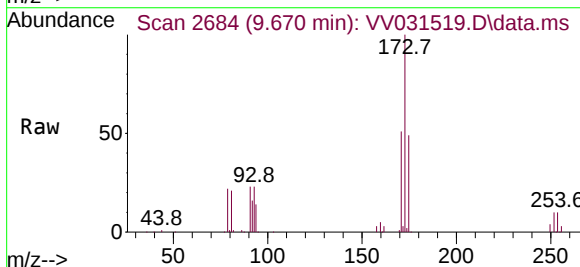
Tgt Ion: 173 Resp: 91750

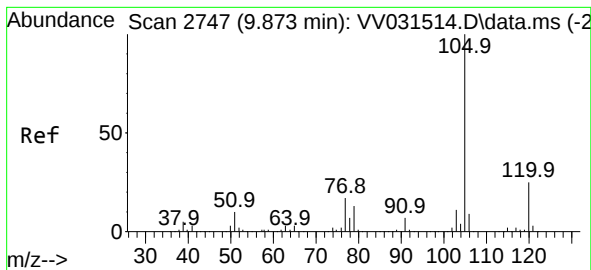
Ion Ratio Lower Upper

173 100

175 48.3 37.7 56.5

254 0.1 0.1 0.1





#60

Isopropylbenzene

Concen: 49.626 ug/L

RT: 9.873 min Scan# 21

Delta R.T. -0.000 min

Lab File: VV031519.D

Acq: 15 Jun 2023 10:10

Instrument :

MSVOA\_V

ClientSampleId :

VSTD050371

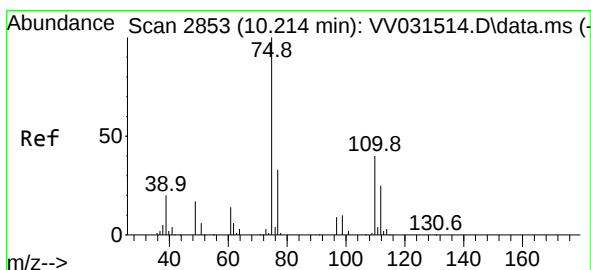
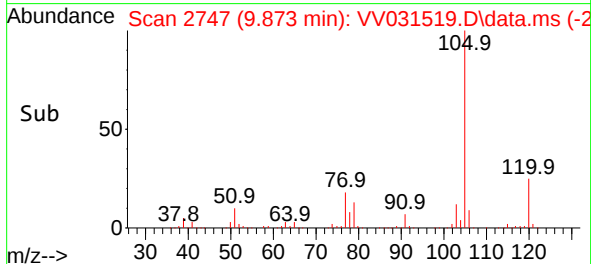
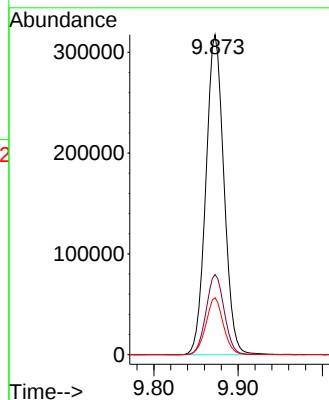
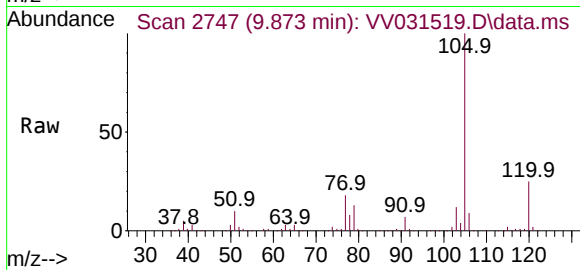
Tgt Ion:105 Resp: 473593

Ion Ratio Lower Upper

105 100

120 25.2 20.2 30.2

77 17.2 13.5 20.3



#61

1,2,3-Trichloropropane

Concen: 46.164 ug/L

RT: 10.213 min Scan# 2853

Delta R.T. -0.000 min

Lab File: VV031519.D

Acq: 15 Jun 2023 10:10

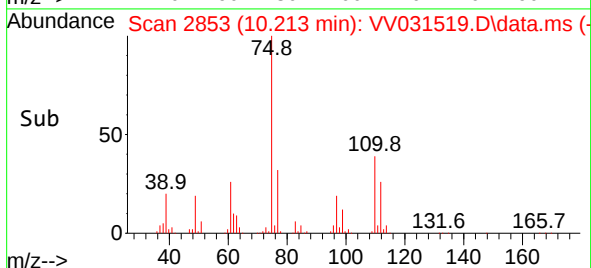
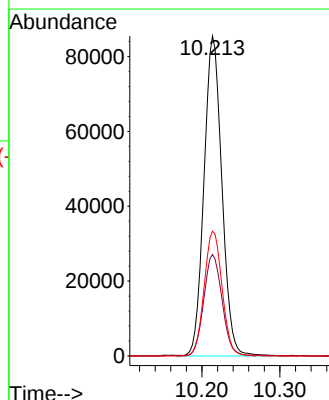
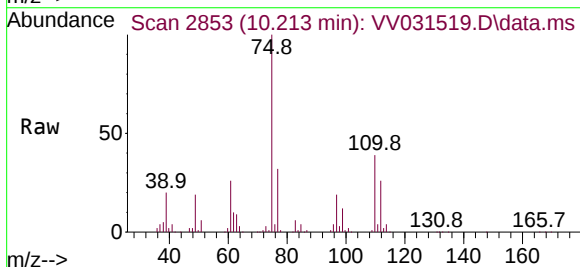
Tgt Ion: 75 Resp: 136489

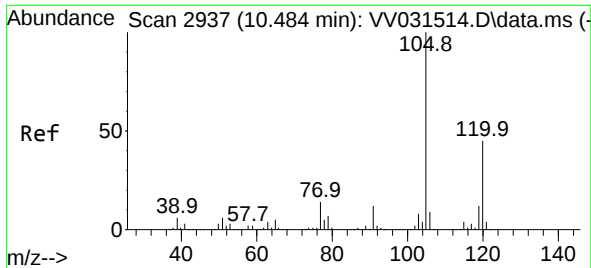
Ion Ratio Lower Upper

75 100

77 32.1 25.4 38.0

110 39.0 31.3 46.9

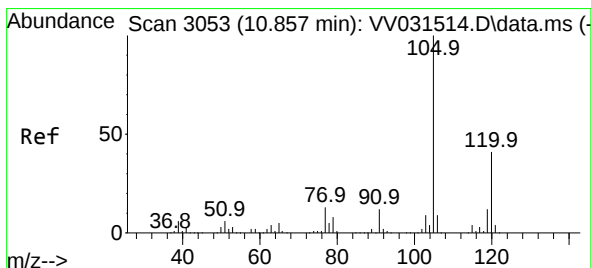
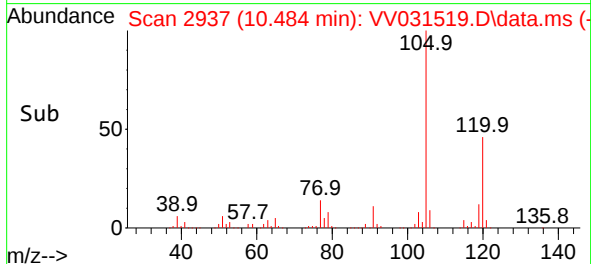
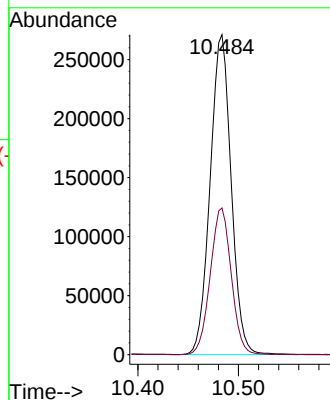
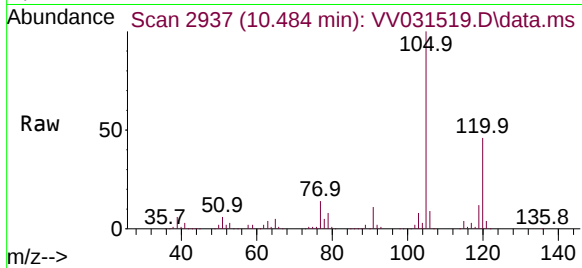




#62  
 1,3,5-Trimethylbenzene  
 Concen: 49.886 ug/L  
 RT: 10.484 min Scan# 2937  
 Delta R.T. -0.000 min  
 Lab File: VV031519.D  
 Acq: 15 Jun 2023 10:10

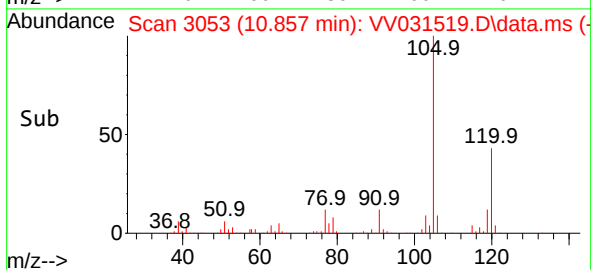
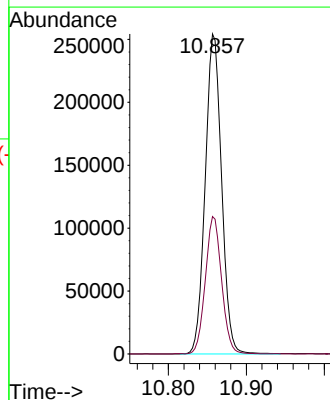
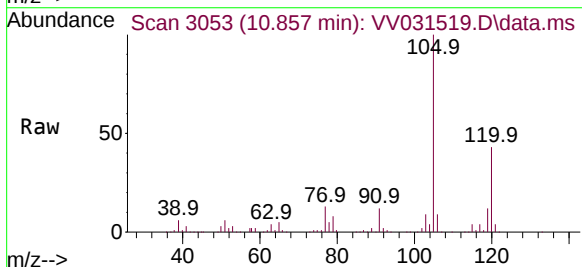
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050371

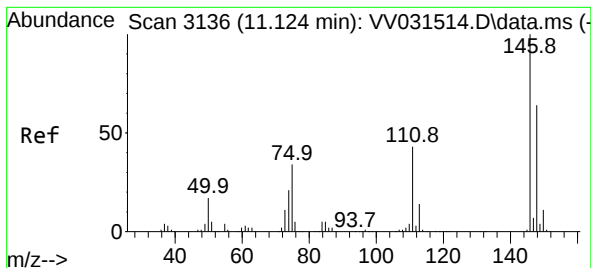
Tgt Ion:105 Resp: 393477  
 Ion Ratio Lower Upper  
 105 100  
 120 45.9 36.2 54.2



#63  
 1,2,4-Trimethylbenzene  
 Concen: 50.474 ug/L  
 RT: 10.857 min Scan# 3053  
 Delta R.T. -0.000 min  
 Lab File: VV031519.D  
 Acq: 15 Jun 2023 10:10

Tgt Ion:105 Resp: 370947  
 Ion Ratio Lower Upper  
 105 100  
 120 42.6 33.4 50.2





#64

1,3-Dichlorobenzene

Concen: 48.660 ug/L

RT: 11.120 min Scan# 3135

Delta R.T. -0.003 min

Lab File: VV031519.D

Acq: 15 Jun 2023 10:10

Instrument :

MSVOA\_V

ClientSampleId :

VSTD050371

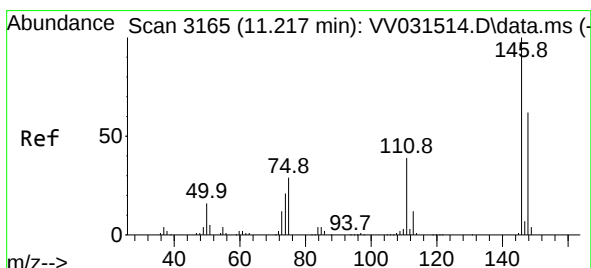
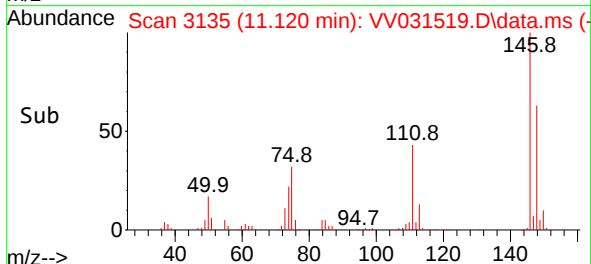
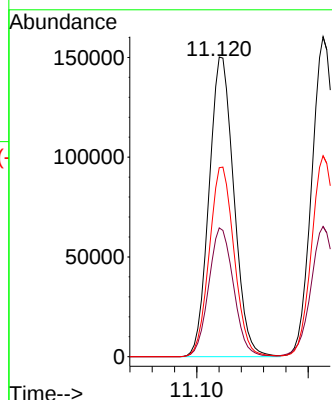
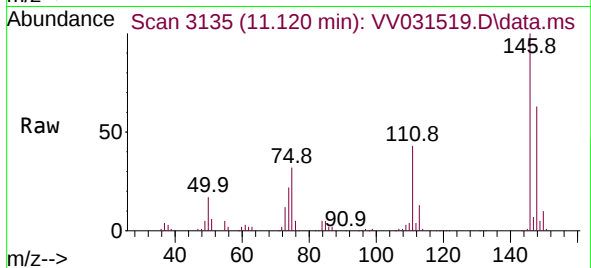
Tgt Ion:146 Resp: 232815

Ion Ratio Lower Upper

146 100

111 43.0 30.4 56.5

148 63.0 44.7 83.1



#65

1,4-Dichlorobenzene

Concen: 48.341 ug/L

RT: 11.213 min Scan# 3164

Delta R.T. -0.003 min

Lab File: VV031519.D

Acq: 15 Jun 2023 10:10

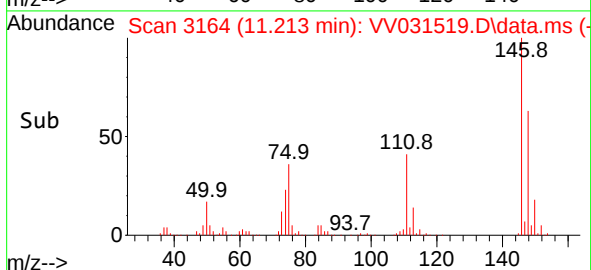
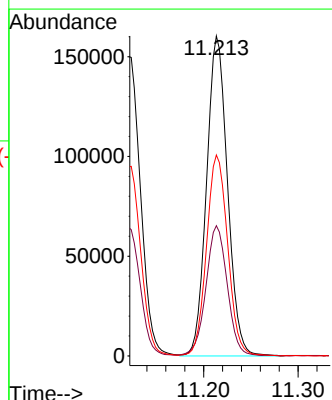
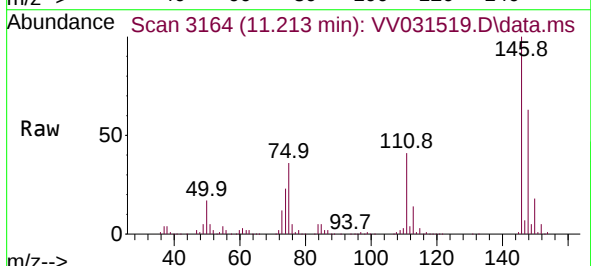
Tgt Ion:146 Resp: 246463

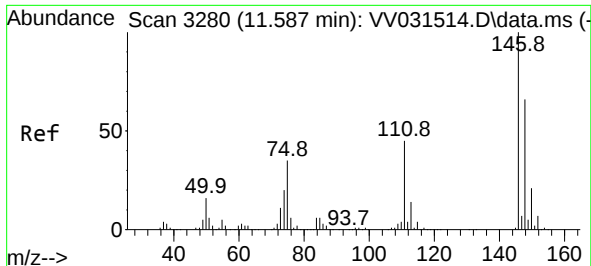
Ion Ratio Lower Upper

146 100

111 40.7 27.9 51.7

148 62.8 43.6 81.0





#67

1,2-Dichlorobenzene

Concen: 48.601 ug/L

RT: 11.583 min Scan# 31

Delta R.T. -0.003 min

Lab File: VV031519.D

Acq: 15 Jun 2023 10:10

Instrument :

MSVOA\_V

ClientSampleId :

VSTD050371

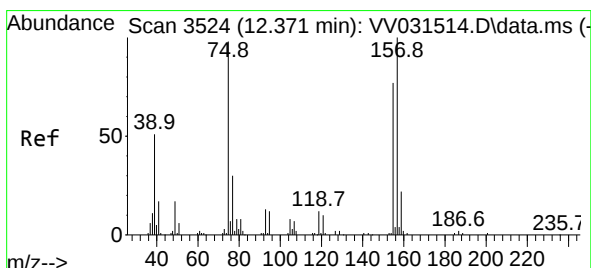
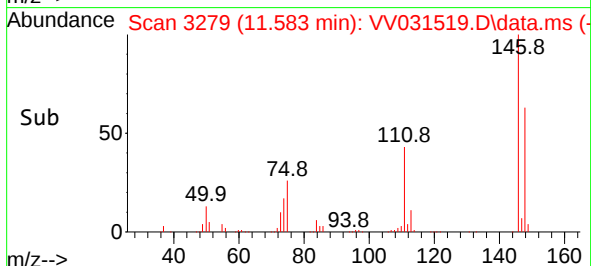
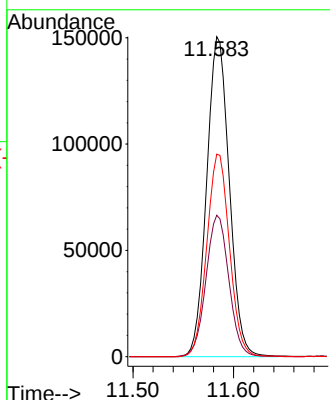
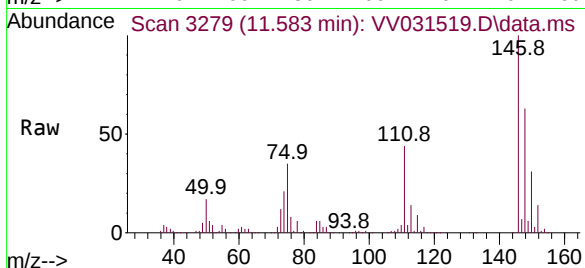
Tgt Ion:146 Resp: 234695

Ion Ratio Lower Upper

146 100

111 44.2 35.9 53.9

148 63.3 52.6 78.8



#68

1,2-Dibromo-3-chloropropane

Concen: 45.413 ug/L

RT: 12.371 min Scan# 3524

Delta R.T. -0.000 min

Lab File: VV031519.D

Acq: 15 Jun 2023 10:10

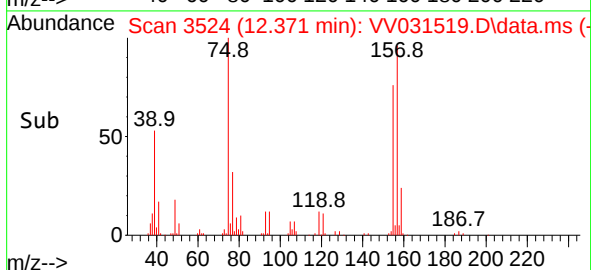
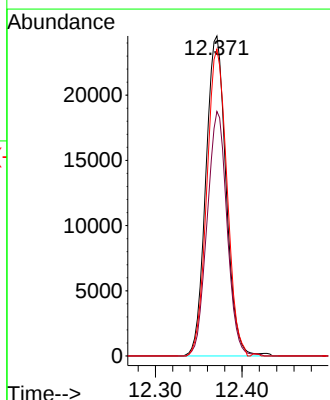
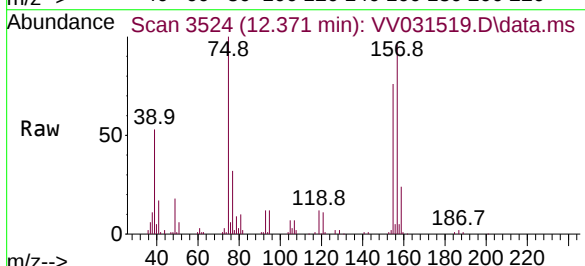
Tgt Ion: 75 Resp: 39852

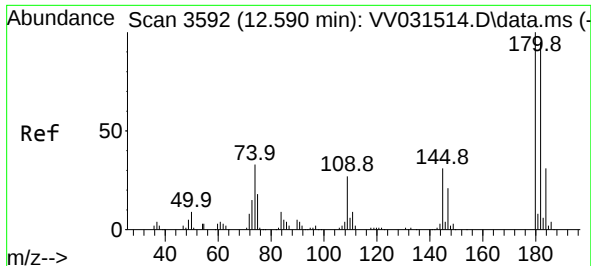
Ion Ratio Lower Upper

75 100

155 76.4 63.2 94.8

157 100.6 85.3 127.9





#69

1,3,5-Trichlorobenzene

Concen: 48.090 ug/L

RT: 12.590 min Scan# 3592

Delta R.T. -0.000 min

Lab File: VV031519.D

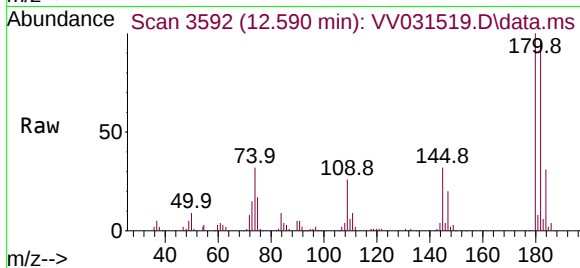
Acq: 15 Jun 2023 10:10

Instrument :

MSVOA\_V

ClientSampleId :

VSTD050371



Tgt Ion:180 Resp: 175322

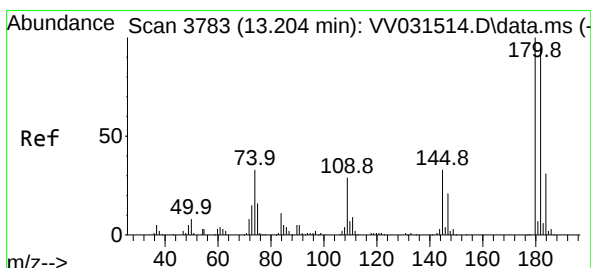
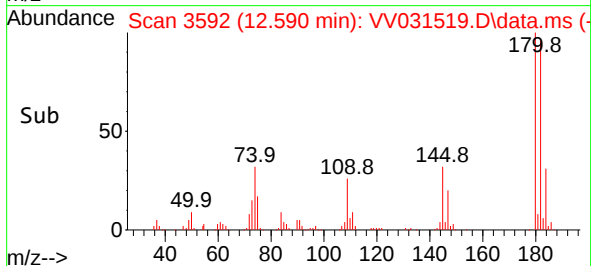
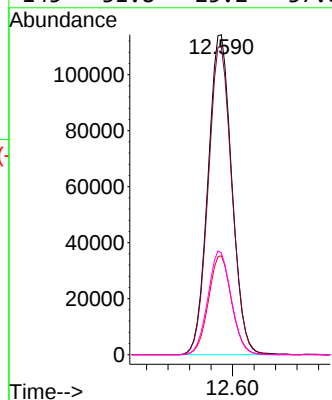
Ion Ratio Lower Upper

180 100

182 96.2 76.6 115.0

184 30.1 24.7 37.1

145 31.8 25.2 37.8



#70

1,2,4-trichlorobenzene

Concen: 48.344 ug/L

RT: 13.204 min Scan# 3783

Delta R.T. -0.000 min

Lab File: VV031519.D

Acq: 15 Jun 2023 10:10

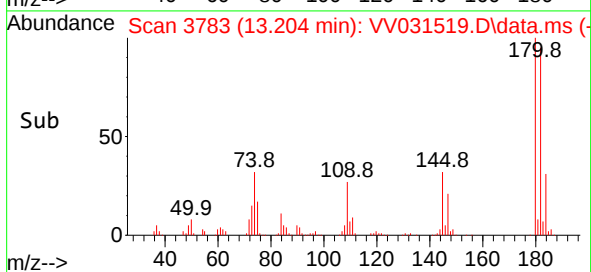
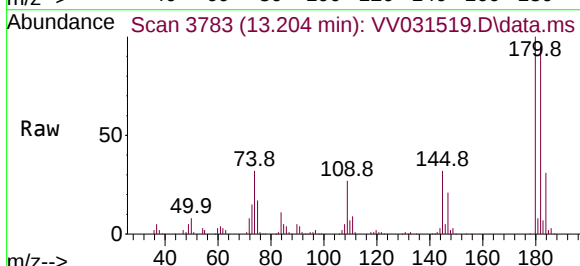
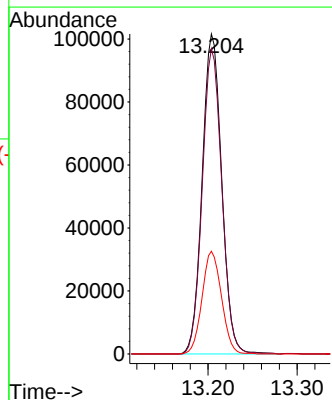
Tgt Ion:180 Resp: 154487

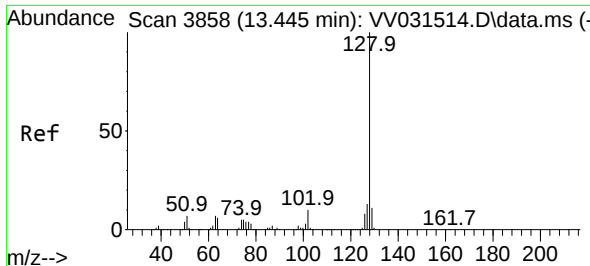
Ion Ratio Lower Upper

180 100

182 95.2 77.7 116.5

145 31.9 26.1 39.1

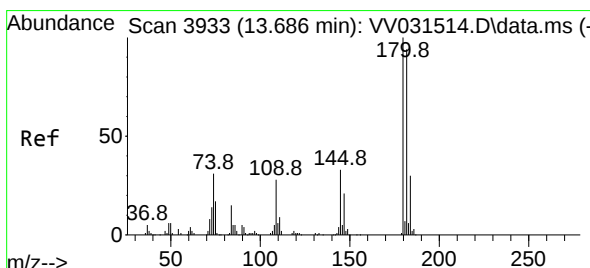
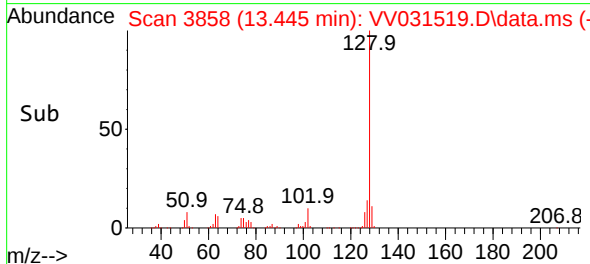
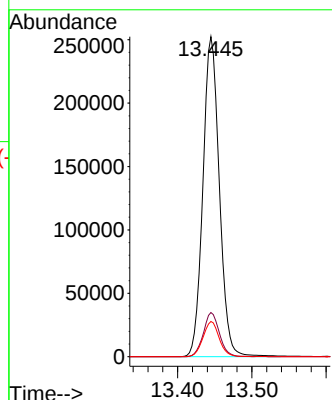
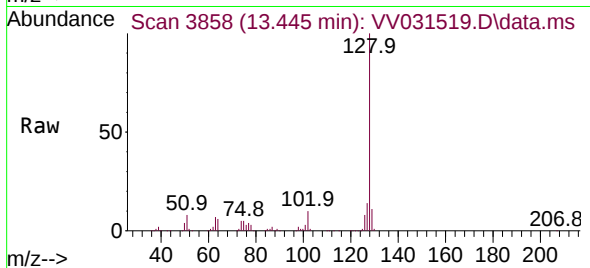




#71  
Naphthalene  
Concen: 48.026 ug/L  
RT: 13.445 min Scan# 3858  
Delta R.T. -0.000 min  
Lab File: VV031519.D  
Acq: 15 Jun 2023 10:10

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050371

Tgt Ion:128 Resp: 388737  
Ion Ratio Lower Upper  
128 100  
127 13.4 10.6 16.0  
129 10.8 8.6 13.0



#72  
1,2,3-Trichlorobenzene  
Concen: 48.033 ug/L  
RT: 13.686 min Scan# 3933  
Delta R.T. -0.000 min  
Lab File: VV031519.D  
Acq: 15 Jun 2023 10:10

Tgt Ion:180 Resp: 159506  
Ion Ratio Lower Upper  
180 100  
182 95.3 74.0 111.0  
145 34.1 26.2 39.2

