

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU112421\  
 Data File : VU045989.D  
 Acq On : 24 Nov 2021 13:03  
 Operator : SY/MD  
 Sample : M4825-03MSD  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 H4658MSD

Quant Time: Nov 26 00:19:38 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR111521WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Fri Nov 26 00:17:51 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min)  |
|-------------------------------|--------|-------|----------|----------|--------|-----------|
| -----                         |        |       |          |          |        |           |
| Internal Standards            |        |       |          |          |        |           |
| 1) 1,4-Difluorobenzene        | 6.250  | 114   | 97900    | 5.000    | ug/L   | 0.00      |
| 28) Chlorobenzene-d5          | 9.420  | 117   | 97529    | 5.000    | ug/L   | 0.00      |
| 58) 1,4-Dichlorobenzene-d4    | 11.812 | 152   | 51603    | 5.000    | ug/L   | 0.00      |
| System Monitoring Compounds   |        |       |          |          |        |           |
| 4) Vinyl Chloride-d3          | 1.601  | 65    | 16774    | 2.163    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 43.200%   |
| 7) Chloroethane-d5            | 1.919  | 69    | 25412    | 4.501    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 90.000%   |
| 11) 1,1-Dichloroethene-d2     | 2.572  | 65    | 11822    | 3.634    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 72.600%   |
| 20) 2-Butanone-d5             | 4.649  | 46    | 134803   | 64.852   | ug/L   | -0.02     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 129.700%  |
| 24) Chloroform-d              | 5.067  | 84    | 67296    | 5.208    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 104.200%  |
| 26) 1,2-Dichloroethane-d4     | 5.706  | 65    | 39919    | 5.265    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 105.200%  |
| 32) Benzene-d6                | 5.732  | 84    | 134425   | 5.005    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 100.200%  |
| 36) 1,2-Dichloropropane-d6    | 6.694  | 67    | 43949    | 5.192    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 103.800%  |
| 41) Toluene-d8                | 7.899  | 98    | 122193   | 5.029    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 100.600%  |
| 43) trans-1,3-Dichloroprop... | 8.182  | 79    | 13459    | 3.917    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 78.400%   |
| 46) 2-Hexanone-d5             | 8.636  | 63    | 101040   | 65.329   | ug/L   | 0.00      |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 130.660%# |
| 56) 1,1,2,2-Tetrachloroeth... | 10.758 | 84    | 41772    | 5.841    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 116.800%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.195 | 152   | 48103    | 5.429    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 108.600%  |
| Target Compounds              |        |       |          |          |        |           |
|                               |        |       |          |          | Qvalue |           |
| 2) Dichlorodifluoromethane    | 1.388  | 85    | 36704    | 4.605    | ug/L   | 100       |
| 3) Chloromethane              | 1.520  | 50    | 34760    | 4.115    | ug/L   | 100       |
| 5) Vinyl chloride             | 1.607  | 62    | 38692    | 4.564    | ug/L   | 100       |
| 6) Bromomethane               | 1.861  | 94    | 21007    | 4.178    | ug/L   | 99        |
| 8) Chloroethane               | 1.938  | 64    | 22961    | 4.750    | ug/L   | 96        |
| 9) Trichlorofluoromethane     | 2.144  | 101   | 53028    | 4.845    | ug/L   | 100       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.588  | 101   | 30940    | 4.821    | ug/L   | 98        |
| 12) 1,1-Dichloroethene        | 2.584  | 96    | 28663    | 4.730    | ug/L   | 87        |
| 13) Acetone                   | 2.674  | 43    | 68396    | 55.904   | ug/L   | 62        |
| 14) Carbon disulfide          | 2.800  | 76    | 77768    | 4.057    | ug/L   | 99        |
| 15) Methyl Acetate            | 2.967  | 43    | 15639    | 5.210    | ug/L   | 91        |
| 16) Methylene chloride        | 3.051  | 84    | 33354    | 3.728    | ug/L   | 96        |
| 17) Methyl tert-butyl Ether   | 3.369  | 73    | 86604    | 5.489    | ug/L   | 100       |
| 18) trans-1,2-Dichloroethene  | 3.359  | 96    | 30911    | 4.758    | ug/L   | 96        |
| 19) 1,1-Dichloroethane        | 3.874  | 63    | 71112    | 5.843    | ug/L   | 98        |
| 21) 2-Butanone                | 4.729  | 43    | 121255   | 58.904   | ug/L   | 97        |
| 22) cis-1,2-Dichloroethene    | 4.671  | 96    | 56431    | 8.012    | ug/L   | 99        |
| 23) Bromochloromethane        | 4.980  | 128   | 16962    | 5.525    | ug/L   | 95        |
| 25) Chloroform                | 5.092  | 83    | 64276    | 4.868    | ug/L   | 98        |

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 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Fri Nov 26 00:17:51 2021  
 Response via : Initial Calibration

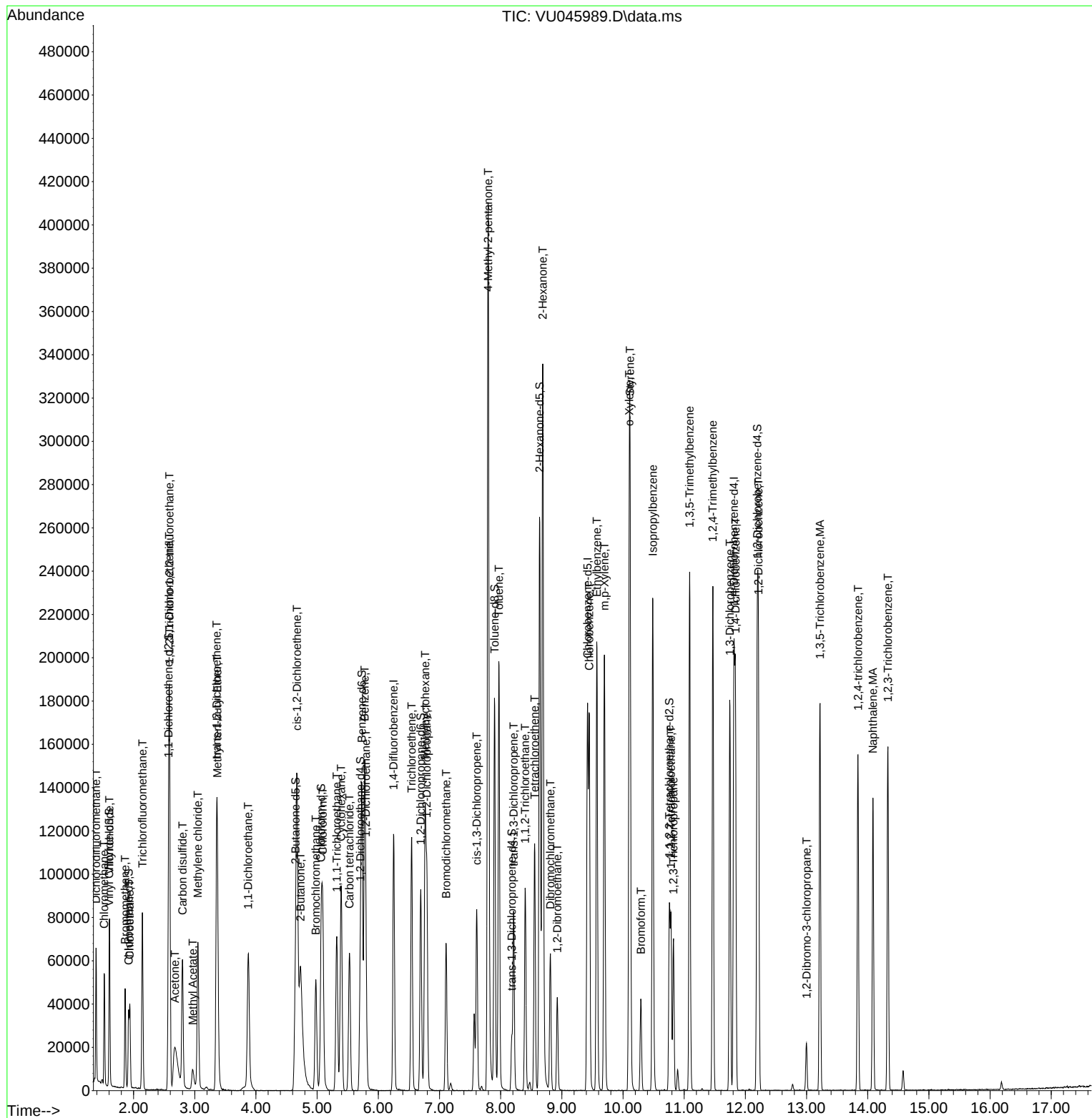
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.797  | 62   | 42881    | 5.090  | ug/L  | 99       |
| 29) 1,1,1-Trichloroethane     | 5.321  | 97   | 53376    | 5.037  | ug/L  | 99       |
| 30) Cyclohexane               | 5.391  | 56   | 48225    | 4.589  | ug/L  | 99       |
| 31) Carbon tetrachloride      | 5.530  | 117  | 44985    | 5.048  | ug/L  | 96       |
| 33) Benzene                   | 5.777  | 78   | 131689   | 4.839  | ug/L  | 100      |
| 34) Trichloroethene           | 6.546  | 95   | 39510    | 5.633  | ug/L  | 98       |
| 35) Methylcyclohexane         | 6.768  | 83   | 51932    | 4.821  | ug/L  | 97       |
| 37) 1,2-Dichloropropane       | 6.793  | 63   | 35136    | 4.906  | ug/L  | 99       |
| 38) Bromodichloromethane      | 7.108  | 83   | 44661    | 5.054  | ug/L  | 98       |
| 39) cis-1,3-Dichloropropene   | 7.610  | 75   | 51019    | 5.013  | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone      | 7.796  | 43   | 278419   | 59.266 | ug/L  | 97       |
| 42) Toluene                   | 7.970  | 91   | 146156   | 5.202  | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene | 8.211  | 75   | 46440    | 5.245  | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane     | 8.401  | 97   | 29485    | 5.545  | ug/L  | 97       |
| 47) Tetrachloroethene         | 8.555  | 164  | 25385    | 5.170  | ug/L  | 97       |
| 48) 2-Hexanone                | 8.687  | 43   | 214726   | 63.270 | ug/L  | 99       |
| 49) Dibromochloromethane      | 8.812  | 129  | 33248    | 5.490  | ug/L  | 98       |
| 50) 1,2-Dibromoethane         | 8.925  | 107  | 28231    | 5.636  | ug/L  | 96       |
| 51) Chlorobenzene             | 9.449  | 112  | 92837    | 5.268  | ug/L  | 97       |
| 52) Ethylbenzene              | 9.571  | 91   | 155829   | 5.299  | ug/L  | 100      |
| 53) m,p-Xylene                | 9.697  | 106  | 60049    | 5.331  | ug/L  | 94       |
| 54) o-Xylene                  | 10.102 | 106  | 59436    | 5.468  | ug/L  | 94       |
| 55) Styrene                   | 10.115 | 104  | 101631   | 5.554  | ug/L  | 98       |
| 57) 1,1,2,2-Tetrachloroethane | 10.783 | 83   | 37956    | 5.573  | ug/L  | 97       |
| 59) Bromoform                 | 10.291 | 173  | 18741    | 5.483  | ug/L  | 98       |
| 60) Isopropylbenzene          | 10.488 | 105  | 156246   | 5.157  | ug/L  | 99       |
| 61) 1,2,3-Trichloropropane    | 10.825 | 75   | 29600    | 5.526  | ug/L  | 98       |
| 62) 1,3,5-Trimethylbenzene    | 11.089 | 105  | 130387   | 5.264  | ug/L  | 99       |
| 63) 1,2,4-Trimethylbenzene    | 11.468 | 105  | 130299   | 5.250  | ug/L  | 99       |
| 64) 1,3-Dichlorobenzene       | 11.745 | 146  | 73755    | 5.219  | ug/L  | 99       |
| 65) 1,4-Dichlorobenzene       | 11.838 | 146  | 73304    | 5.106  | ug/L  | 99       |
| 67) 1,2-Dichlorobenzene       | 12.214 | 146  | 72839    | 5.375  | ug/L  | 97       |
| 68) 1,2-Dibromo-3-chloropr... | 12.999 | 75   | 5819     | 5.221  | ug/L  | 87       |
| 69) 1,3,5-Trichlorobenzene    | 13.221 | 180  | 54667    | 5.171  | ug/L  | 97       |
| 70) 1,2,4-trichlorobenzene    | 13.841 | 180  | 45437    | 5.079  | ug/L  | 97       |
| 71) Naphthalene               | 14.086 | 128  | 104112   | 5.664  | ug/L  | 99       |
| 72) 1,2,3-Trichlorobenzene    | 14.330 | 180  | 47191    | 5.301  | ug/L  | 98       |

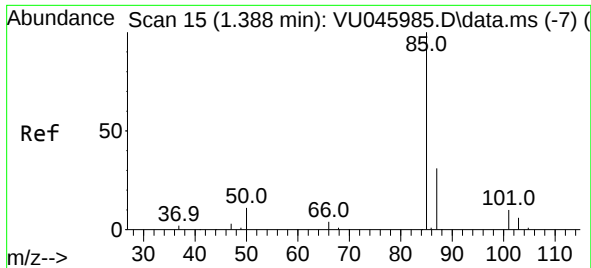
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Nov 26 00:17:51 2021  
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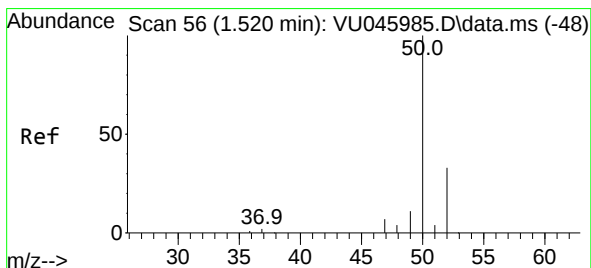
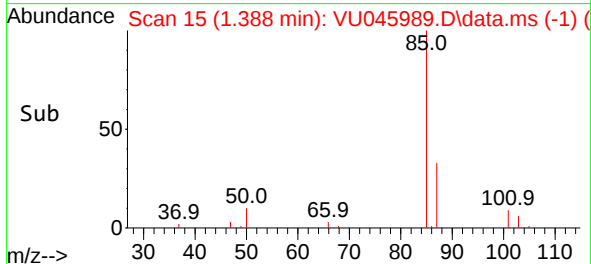
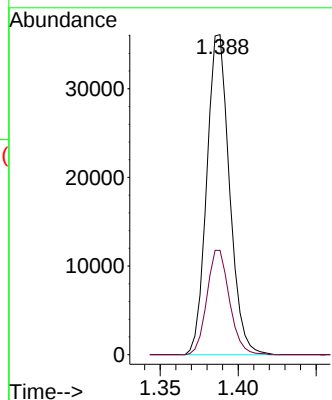
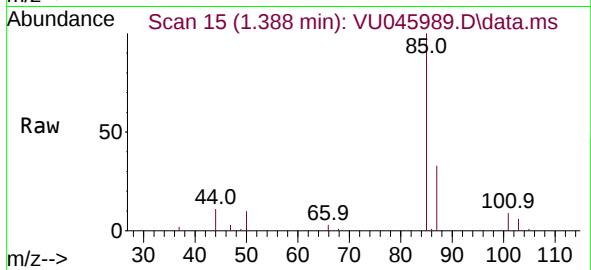




#2  
 Dichlorodifluoromethane  
 Concen: 4.605 ug/L  
 RT: 1.388 min Scan# 15  
 Delta R.T. 0.000 min  
 Lab File: VU045989.D  
 Acq: 24 Nov 2021 13:03

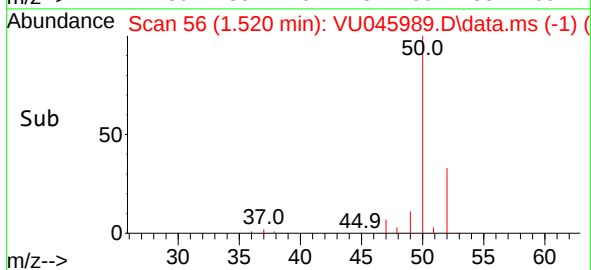
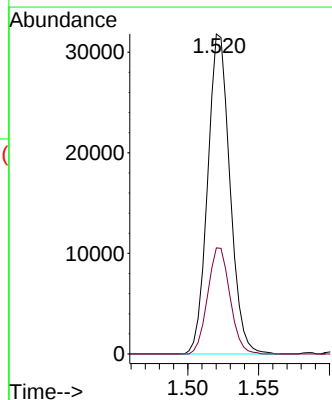
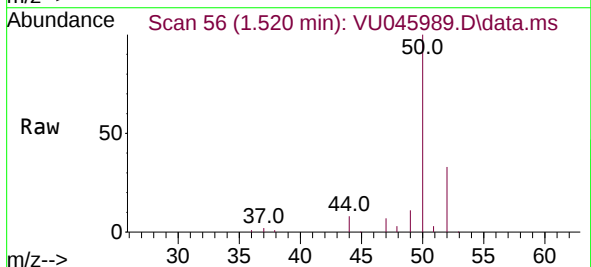
Instrument :  
 MSVOA\_U  
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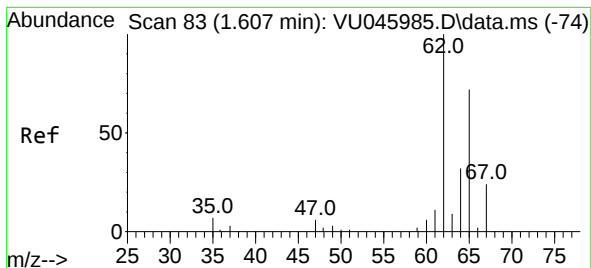
Tgt Ion: 85 Resp: 36704  
 Ion Ratio Lower Upper  
 85 100  
 87 32.4 25.8 38.6



#3  
 Chloromethane  
 Concen: 4.115 ug/L  
 RT: 1.520 min Scan# 56  
 Delta R.T. 0.000 min  
 Lab File: VU045989.D  
 Acq: 24 Nov 2021 13:03

Tgt Ion: 50 Resp: 34760  
 Ion Ratio Lower Upper  
 50 100  
 52 33.1 23.0 42.8





#5

Vinyl chloride

Concen: 4.564 ug/L

RT: 1.607 min Scan# 81

Delta R.T. 0.000 min

Lab File: VU045989.D

Acq: 24 Nov 2021 13:03

Instrument :

MSVOA\_U

ClientSampleId :

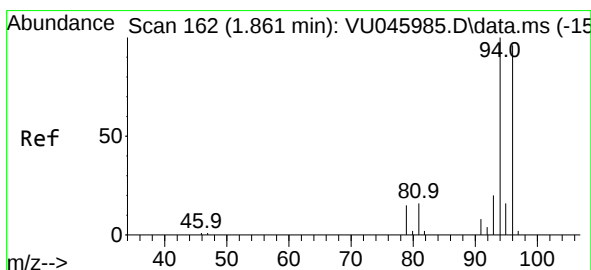
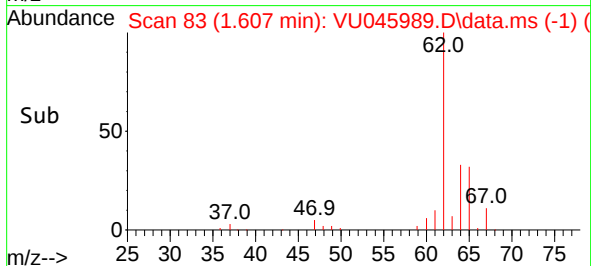
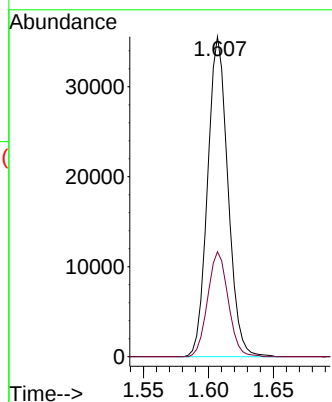
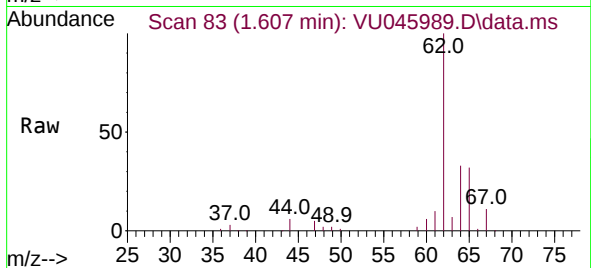
H4658MSD

Tgt Ion: 62 Resp: 38692

Ion Ratio Lower Upper

62 100

64 32.8 22.9 42.5



#6

Bromomethane

Concen: 4.178 ug/L

RT: 1.861 min Scan# 162

Delta R.T. 0.000 min

Lab File: VU045989.D

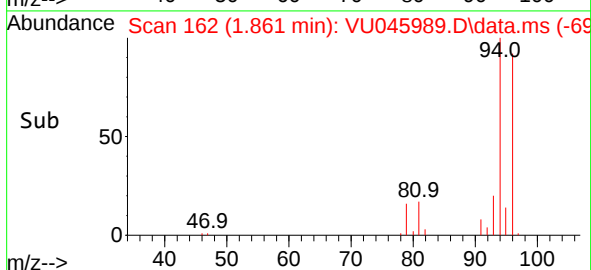
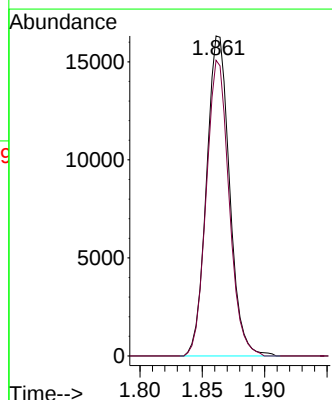
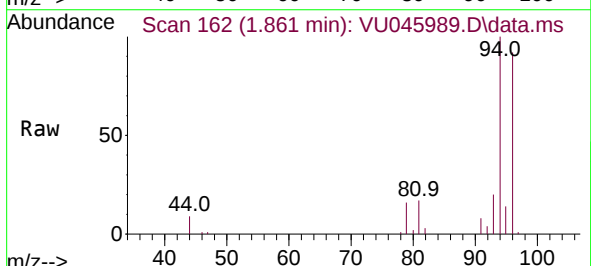
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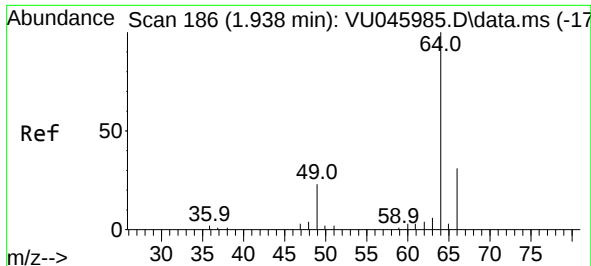
Tgt Ion: 94 Resp: 21007

Ion Ratio Lower Upper

94 100

96 92.4 65.5 121.6

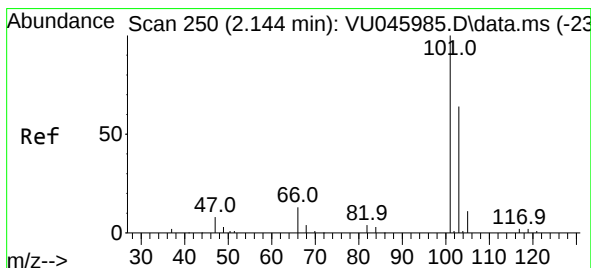
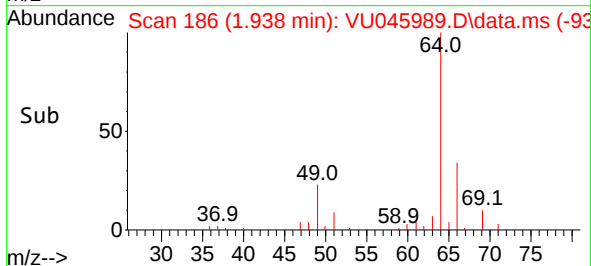
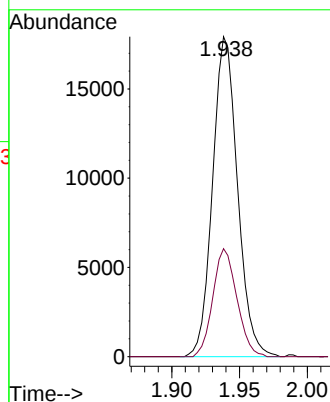
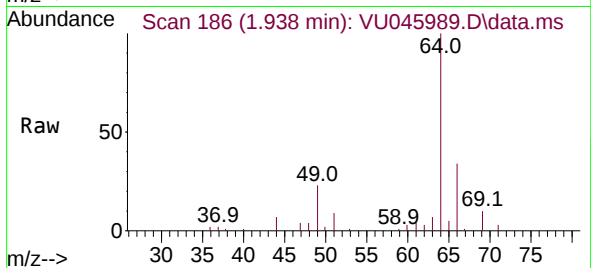




#8  
Chloroethane  
Concen: 4.750 ug/L  
RT: 1.938 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VU045989.D  
Acq: 24 Nov 2021 13:03

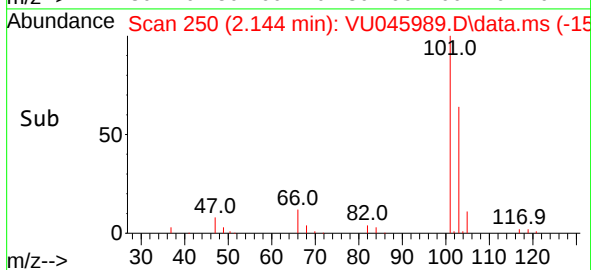
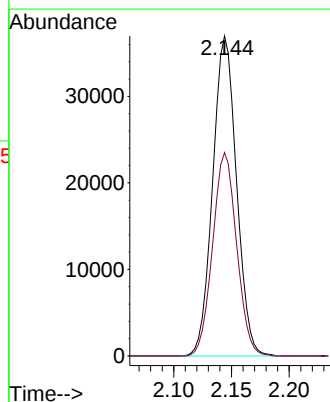
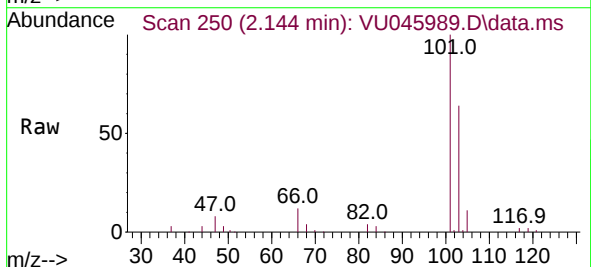
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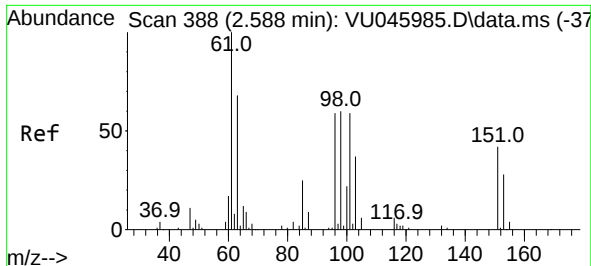
Tgt Ion: 64 Resp: 22961  
Ion Ratio Lower Upper  
64 100  
66 33.8 22.1 41.1



#9  
Trichlorofluoromethane  
Concen: 4.845 ug/L  
RT: 2.144 min Scan# 250  
Delta R.T. 0.000 min  
Lab File: VU045989.D  
Acq: 24 Nov 2021 13:03

Tgt Ion:101 Resp: 53028  
Ion Ratio Lower Upper  
101 100  
103 64.0 51.5 77.3





#10

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

Concen: 4.821 ug/L

RT: 2.588 min Scan# 388

Delta R.T. 0.000 min

Lab File: VU045989.D

Acq: 24 Nov 2021 13:03

Instrument :

MSVOA\_U

ClientSampleId :

H4658MSD

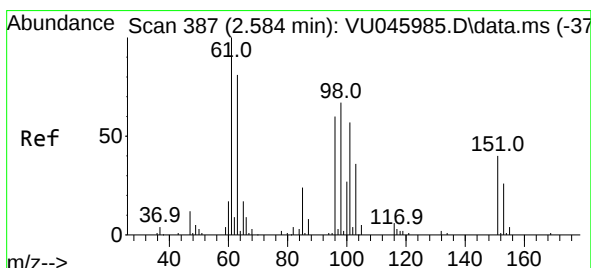
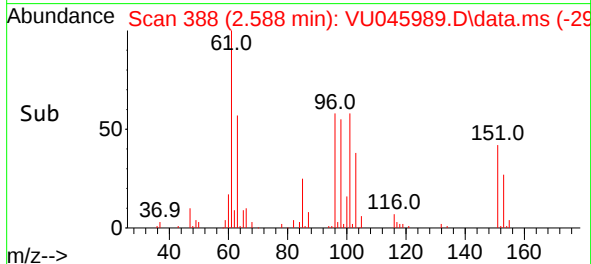
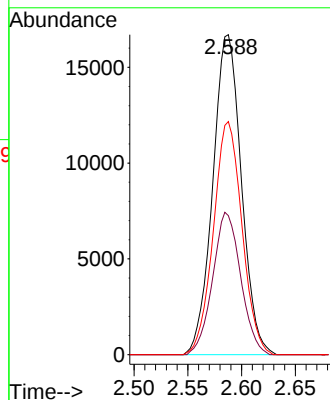
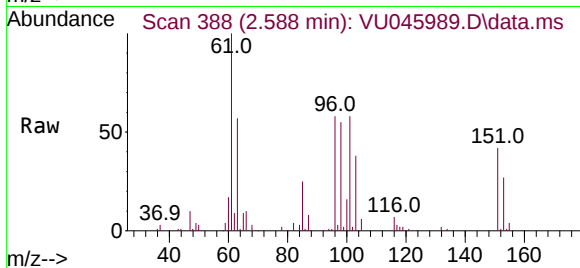
Tgt Ion:101 Resp: 30940

Ion Ratio Lower Upper

101 100

85 43.6 34.6 51.8

151 72.8 56.1 84.1



#12

1,1-Dichloroethene

Concen: 4.730 ug/L

RT: 2.584 min Scan# 387

Delta R.T. 0.000 min

Lab File: VU045989.D

Acq: 24 Nov 2021 13:03

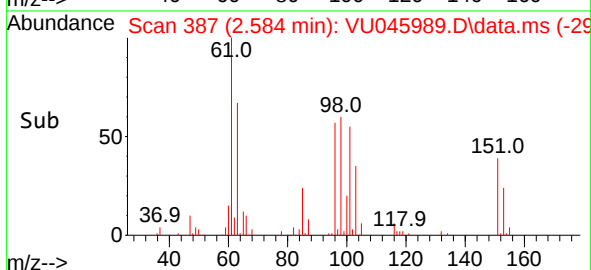
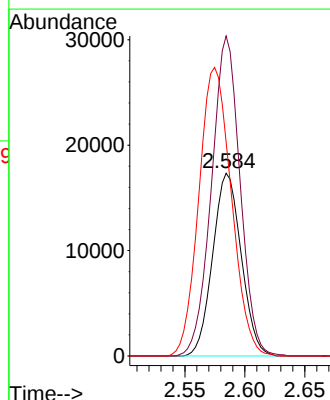
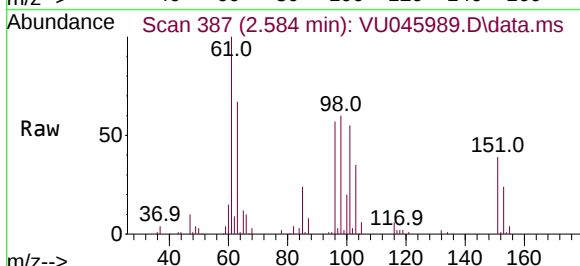
Tgt Ion: 96 Resp: 28663

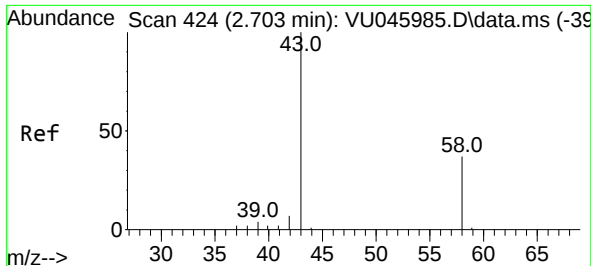
Ion Ratio Lower Upper

96 100

61 175.1 124.7 231.5

63 117.2 105.2 195.4





#13

Acetone

Concen: 55.904 ug/L

RT: 2.674 min Scan# 415

Delta R.T. -0.029 min

Lab File: VU045989.D

Acq: 24 Nov 2021 13:03

Instrument :

MSVOA\_U

ClientSampleId :

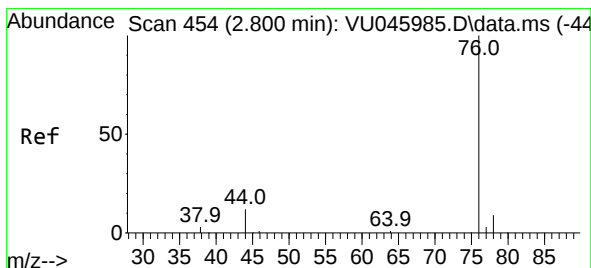
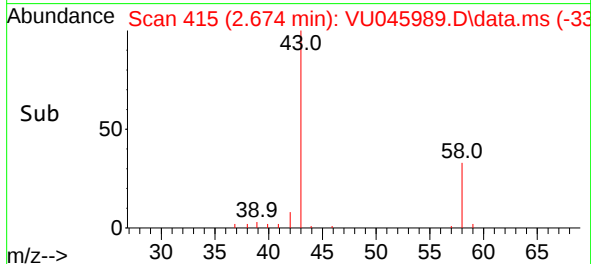
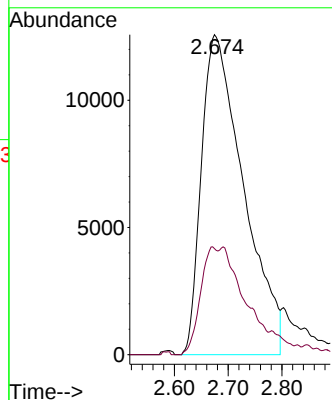
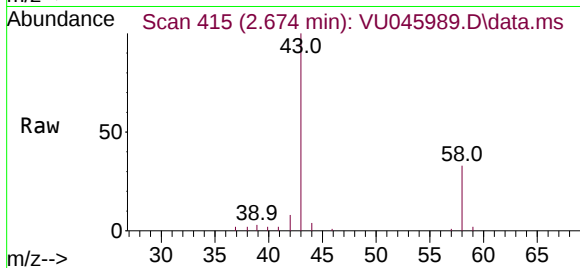
H4658MSD

Tgt Ion: 43 Resp: 68396

Ion Ratio Lower Upper

43 100

58 13.8 0.0 71.6



#14

Carbon disulfide

Concen: 4.057 ug/L

RT: 2.800 min Scan# 454

Delta R.T. 0.000 min

Lab File: VU045989.D

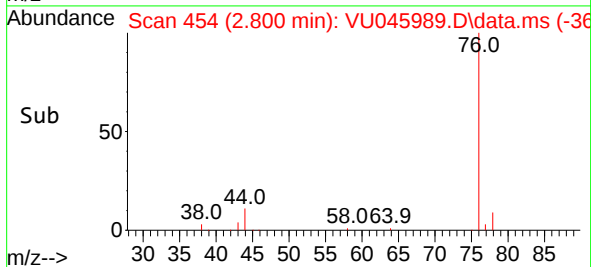
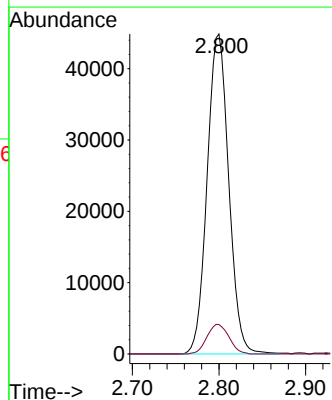
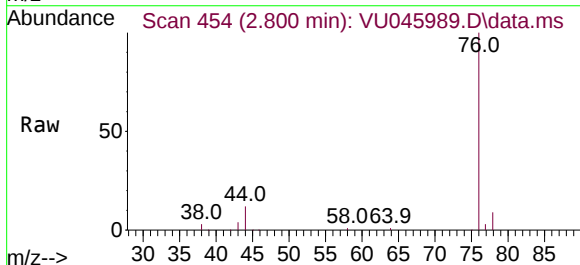
Acq: 24 Nov 2021 13:03

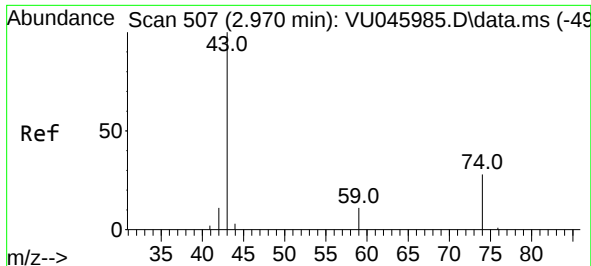
Tgt Ion: 76 Resp: 77768

Ion Ratio Lower Upper

76 100

78 9.2 7.5 11.3

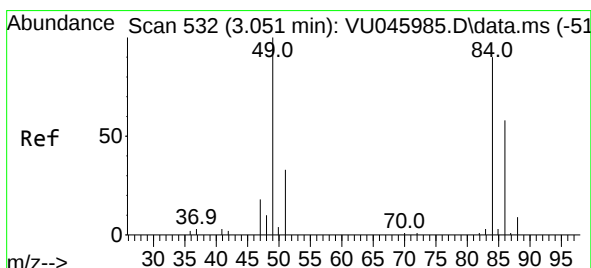
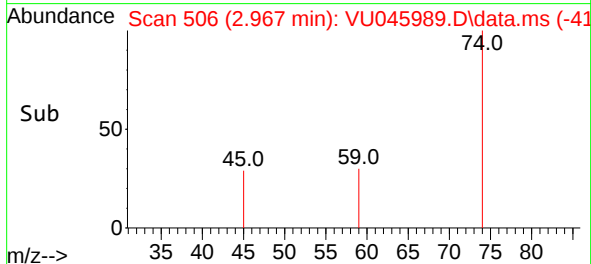
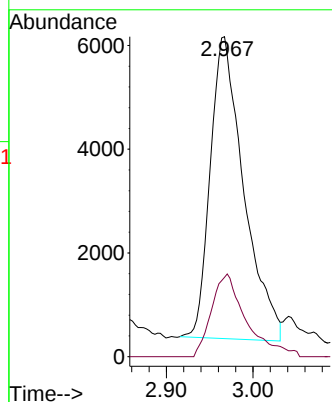
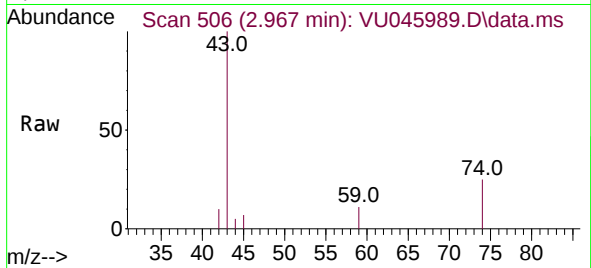




#15  
Methyl Acetate  
Concen: 5.210 ug/L  
RT: 2.967 min Scan# 507  
Delta R.T. -0.003 min  
Lab File: VU045989.D  
Acq: 24 Nov 2021 13:03

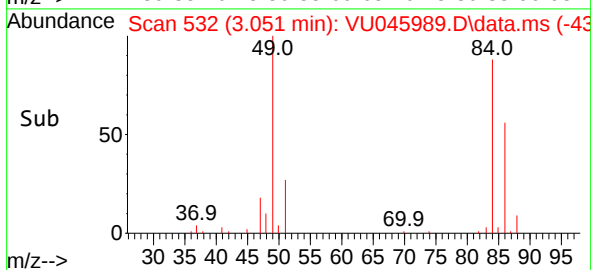
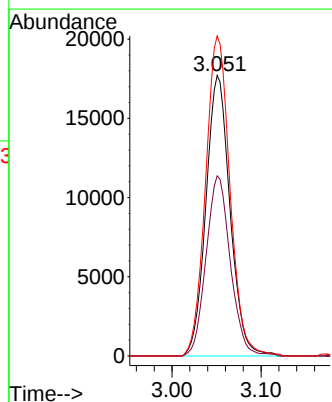
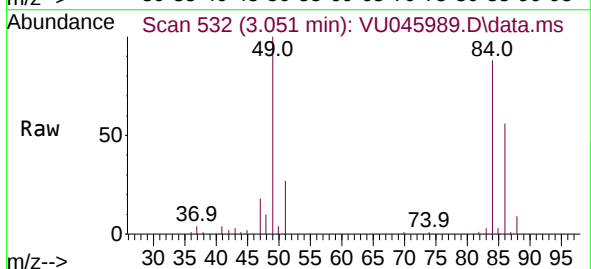
Instrument :  
MSVOA\_U  
ClientSampleId :  
H4658MSD

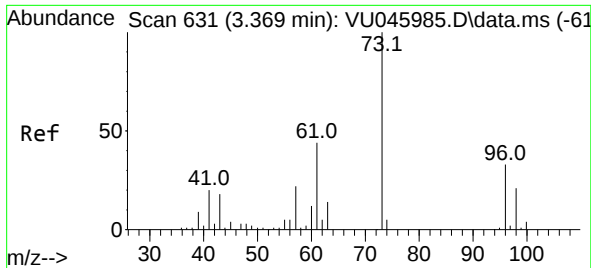
Tgt Ion: 43 Resp: 15639  
Ion Ratio Lower Upper  
43 100  
74 28.4 19.1 28.7



#16  
Methylene chloride  
Concen: 3.728 ug/L  
RT: 3.051 min Scan# 532  
Delta R.T. 0.000 min  
Lab File: VU045989.D  
Acq: 24 Nov 2021 13:03

Tgt Ion: 84 Resp: 33354  
Ion Ratio Lower Upper  
84 100  
86 64.2 45.8 85.0  
49 114.1 84.5 156.9

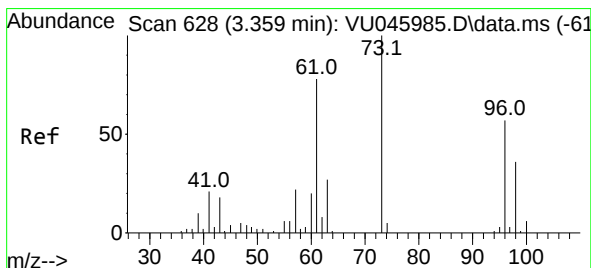
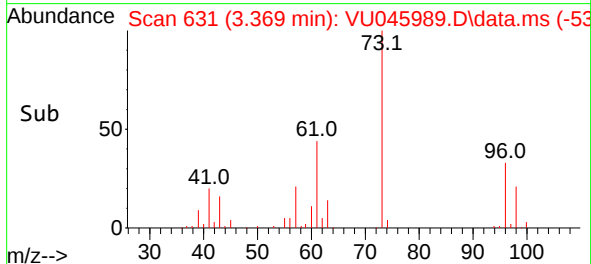
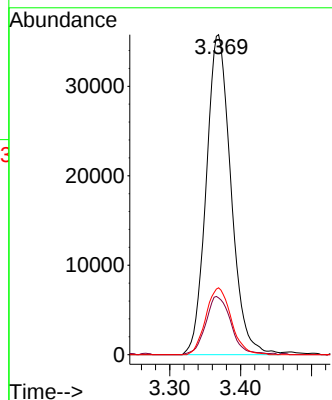
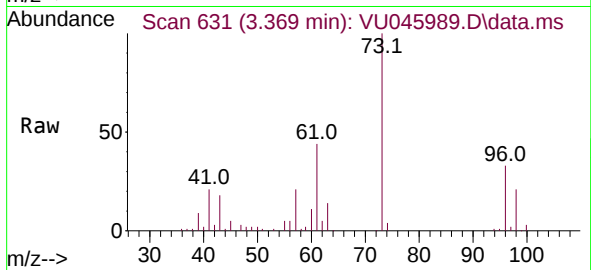




#17  
Methyl tert-butyl Ether  
Concen: 5.489 ug/L  
RT: 3.369 min Scan# 611  
Delta R.T. 0.000 min  
Lab File: VU045989.D  
Acq: 24 Nov 2021 13:03

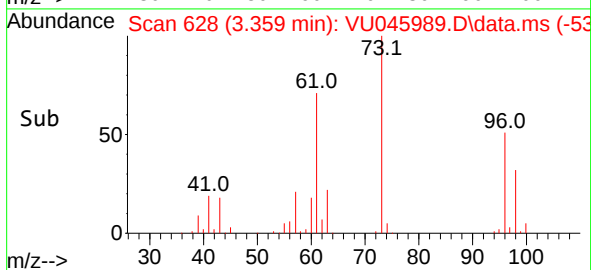
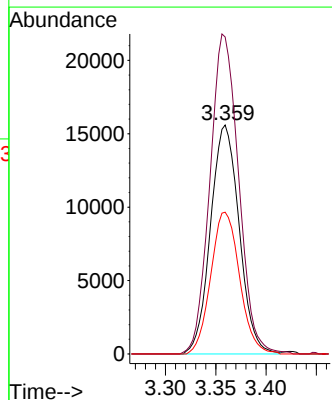
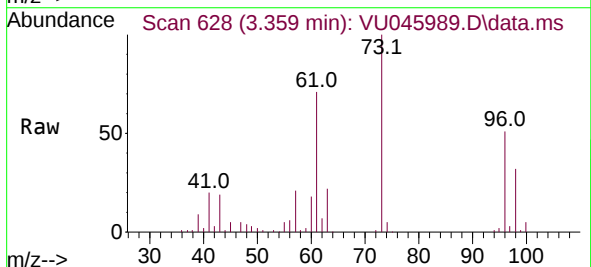
Instrument :  
MSVOA\_U  
ClientSampleId :  
H4658MSD

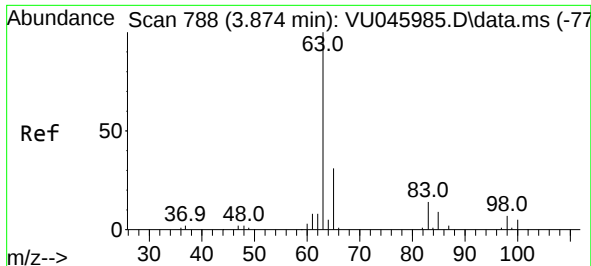
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 73 | Resp: | 86604       |
| Ion         | Ratio | Lower Upper |
| 73          | 100   |             |
| 43          | 18.6  | 14.8 22.2   |
| 57          | 21.4  | 17.4 26.0   |



#18  
trans-1,2-Dichloroethene  
Concen: 4.758 ug/L  
RT: 3.359 min Scan# 628  
Delta R.T. 0.000 min  
Lab File: VU045989.D  
Acq: 24 Nov 2021 13:03

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 96 | Resp: | 30911       |
| Ion         | Ratio | Lower Upper |
| 96          | 100   |             |
| 61          | 138.4 | 100.8 187.2 |
| 98          | 61.9  | 45.1 83.7   |





#19

1,1-Dichloroethane

Concen: 5.843 ug/L

RT: 3.874 min Scan# 71

Delta R.T. 0.000 min

Lab File: VU045989.D

Acq: 24 Nov 2021 13:03

Instrument :

MSVOA\_U

ClientSampleId :

H4658MSD

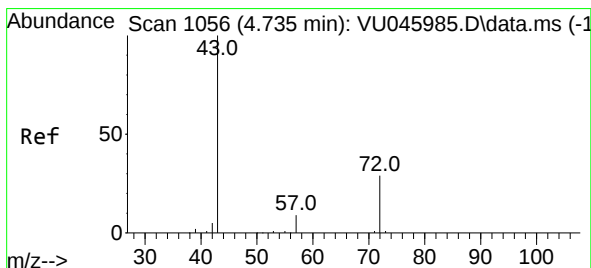
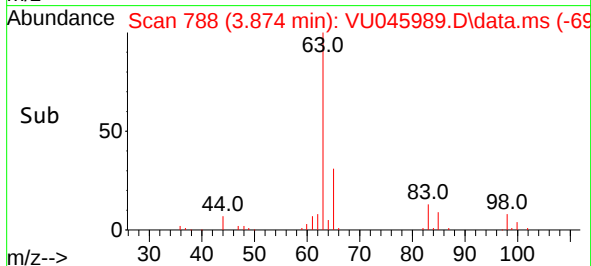
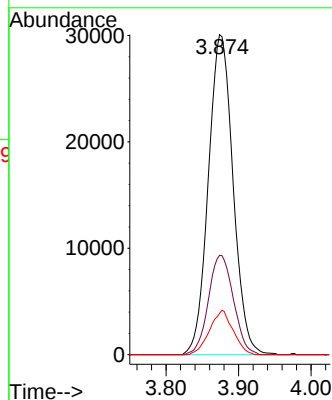
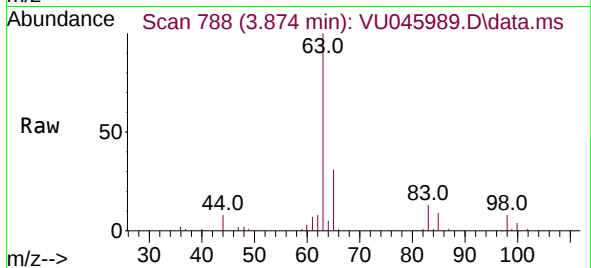
Tgt Ion: 63 Resp: 71112

Ion Ratio Lower Upper

63 100

65 31.1 22.3 41.5

83 12.9 9.6 17.8



#21

2-Butanone

Concen: 58.904 ug/L

RT: 4.729 min Scan# 1054

Delta R.T. -0.006 min

Lab File: VU045989.D

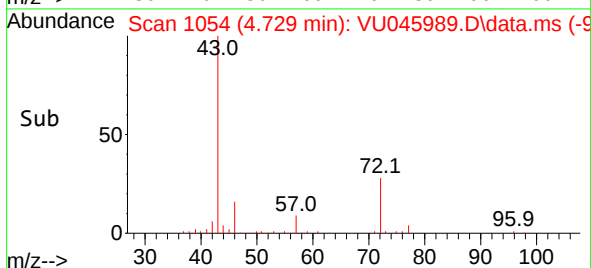
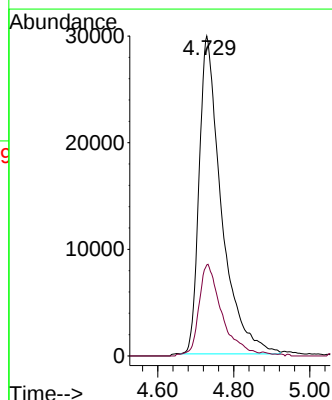
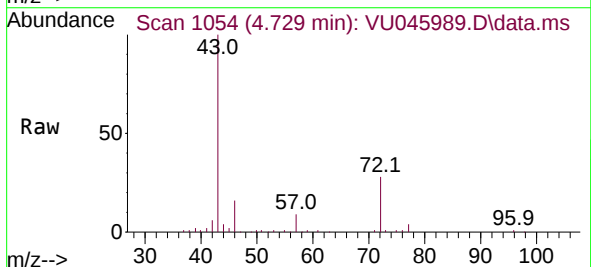
Acq: 24 Nov 2021 13:03

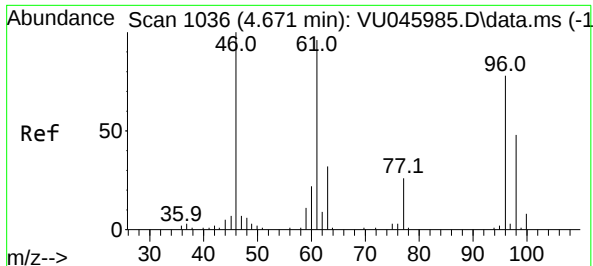
Tgt Ion: 43 Resp: 121255

Ion Ratio Lower Upper

43 100

72 29.8 14.1 42.3

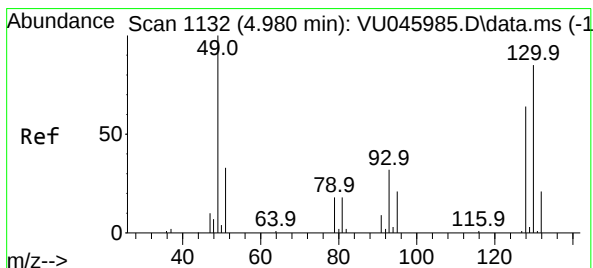
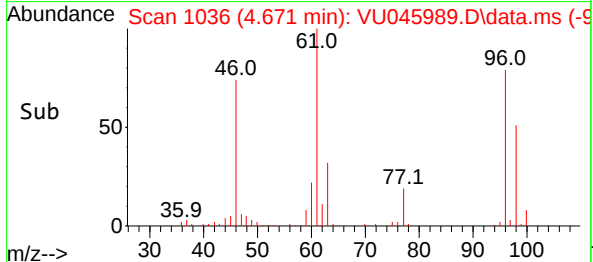
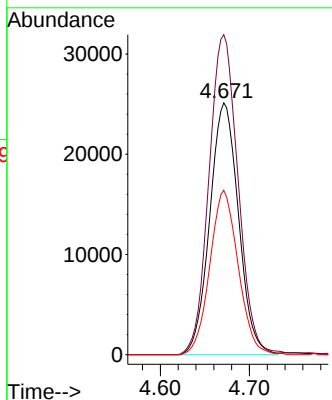
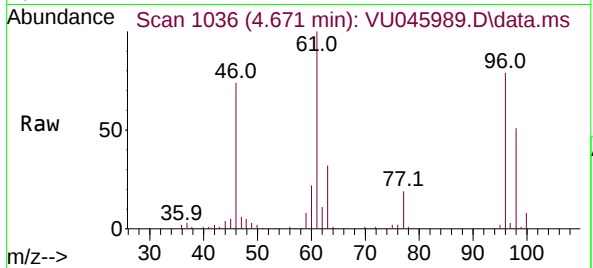




#22  
 cis-1,2-Dichloroethene  
 Concen: 8.012 ug/L  
 RT: 4.671 min Scan# 1036  
 Delta R.T. 0.000 min  
 Lab File: VU045989.D  
 Acq: 24 Nov 2021 13:03

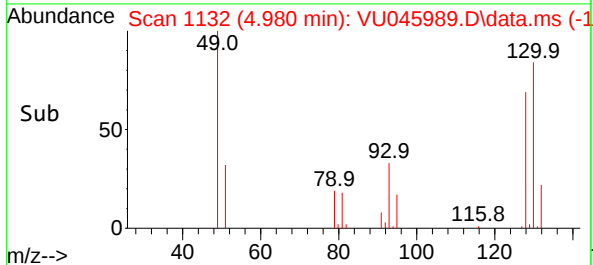
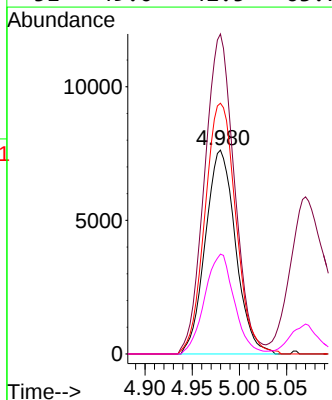
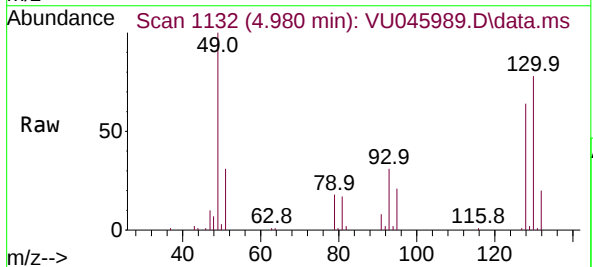
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 H4658MSD

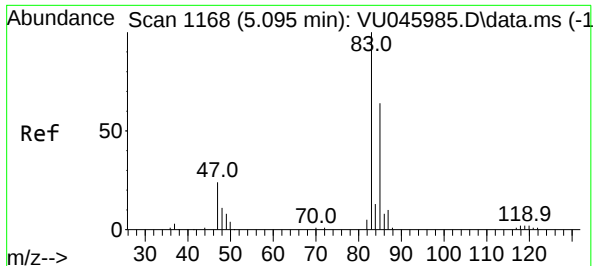
Tgt Ion: 96 Resp: 56431  
 Ion Ratio Lower Upper  
 96 100  
 61 127.1 88.5 164.3  
 98 65.3 44.4 82.5



#23  
 Bromochloromethane  
 Concen: 5.525 ug/L  
 RT: 4.980 min Scan# 1132  
 Delta R.T. 0.000 min  
 Lab File: VU045989.D  
 Acq: 24 Nov 2021 13:03

Tgt Ion: 128 Resp: 16962  
 Ion Ratio Lower Upper  
 128 100  
 49 157.0 117.0 217.2  
 130 123.0 88.2 163.8  
 51 49.0 42.5 63.7





#25

Chloroform

Concen: 4.868 ug/L

RT: 5.092 min Scan# 1168

Delta R.T. -0.003 min

Lab File: VU045989.D

Acq: 24 Nov 2021 13:03

Instrument :

MSVOA\_U

ClientSampleId :

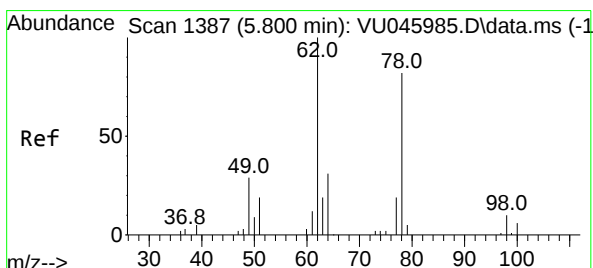
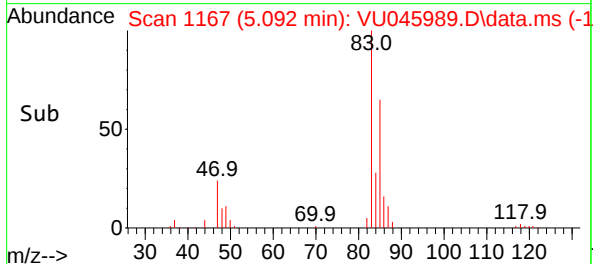
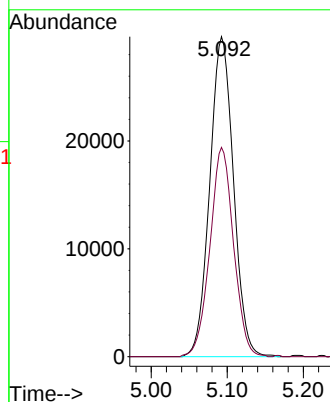
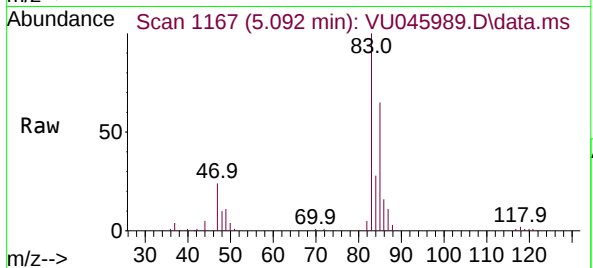
H4658MSD

Tgt Ion: 83 Resp: 64276

Ion Ratio Lower Upper

83 100

85 65.4 46.9 87.1



#27

1,2-Dichloroethane

Concen: 5.090 ug/L

RT: 5.797 min Scan# 1386

Delta R.T. -0.003 min

Lab File: VU045989.D

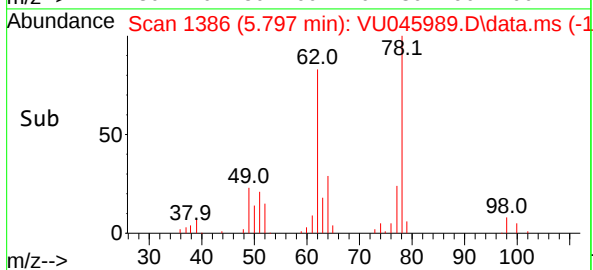
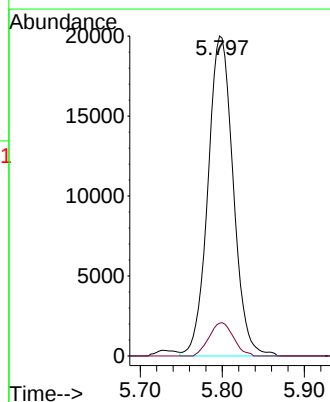
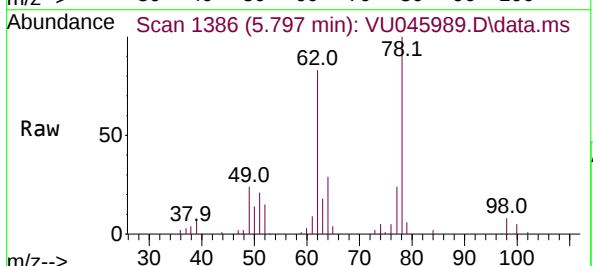
Acq: 24 Nov 2021 13:03

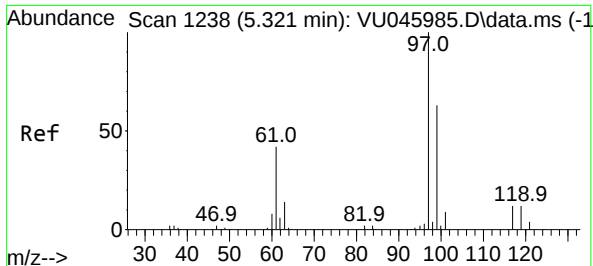
Tgt Ion: 62 Resp: 42881

Ion Ratio Lower Upper

62 100

98 10.2 7.8 11.8





#29

1,1,1-Trichloroethane

Concen: 5.037 ug/L

RT: 5.321 min Scan# 1

Delta R.T. 0.000 min

Lab File: VU045989.D

Acq: 24 Nov 2021 13:03

Instrument :

MSVOA\_U

ClientSampleId :

H4658MSD

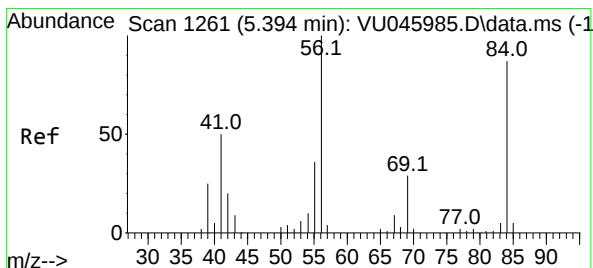
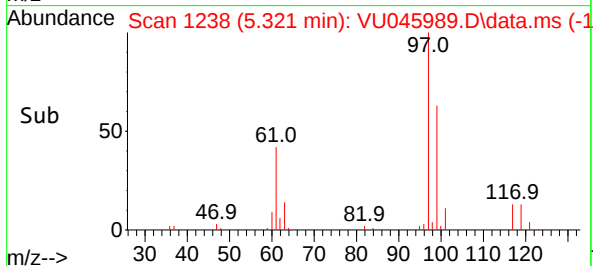
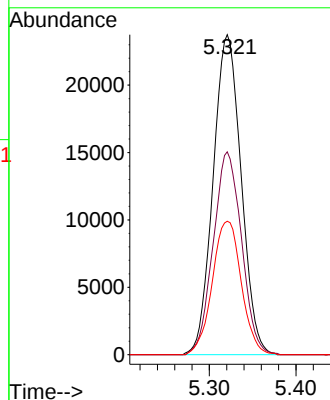
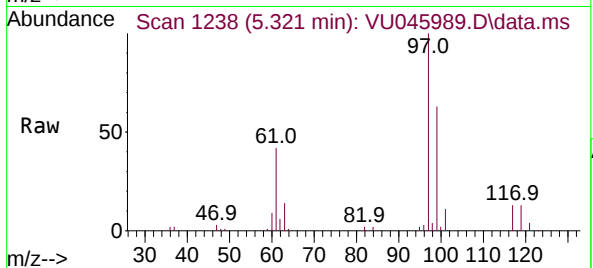
Tgt Ion: 97 Resp: 53376

Ion Ratio Lower Upper

97 100

99 64.1 51.3 76.9

61 43.2 36.1 54.1



#30

Cyclohexane

Concen: 4.589 ug/L

RT: 5.391 min Scan# 1260

Delta R.T. -0.003 min

Lab File: VU045989.D

Acq: 24 Nov 2021 13:03

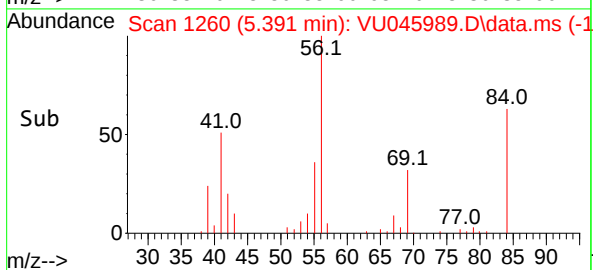
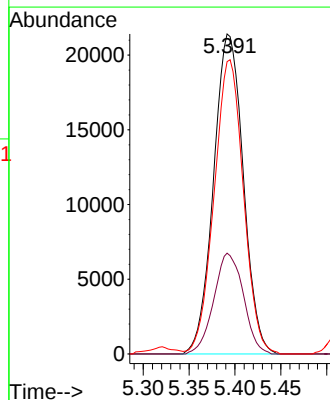
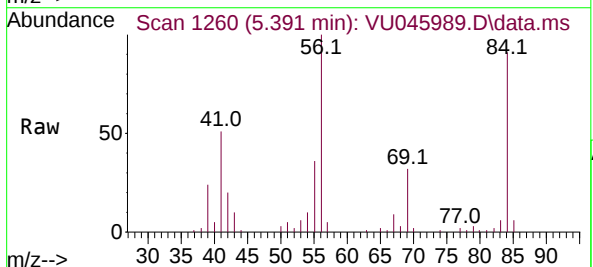
Tgt Ion: 56 Resp: 48225

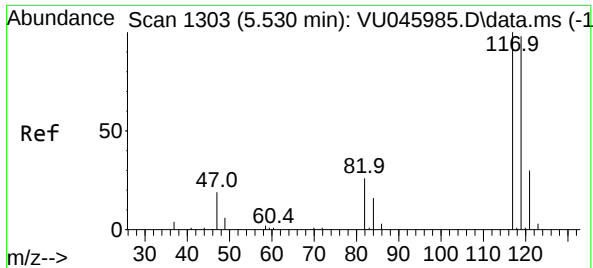
Ion Ratio Lower Upper

56 100

69 31.4 24.7 37.1

84 90.8 71.8 107.6

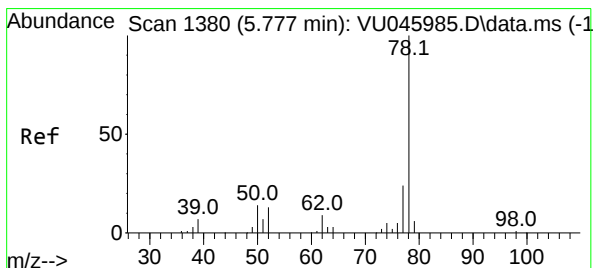
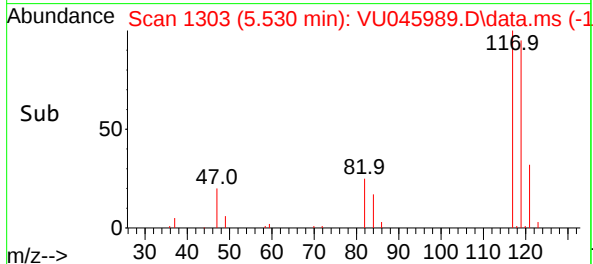
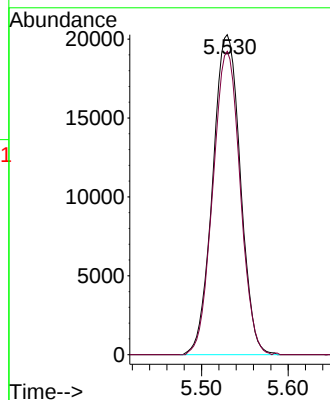
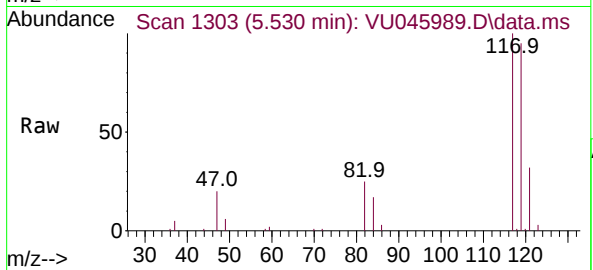




#31  
Carbon tetrachloride  
Concen: 5.048 ug/L  
RT: 5.530 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VU045989.D  
Acq: 24 Nov 2021 13:03

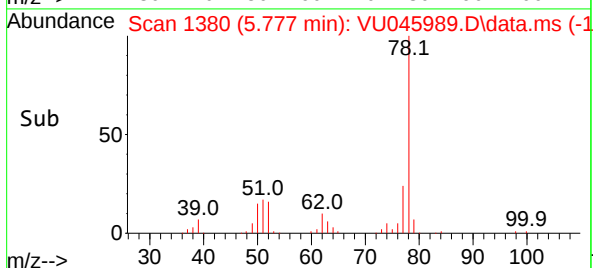
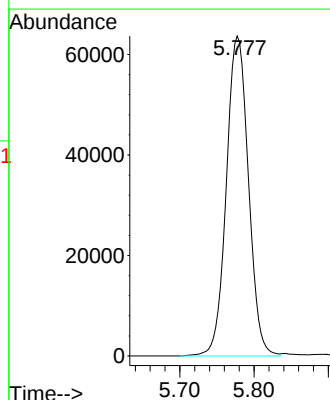
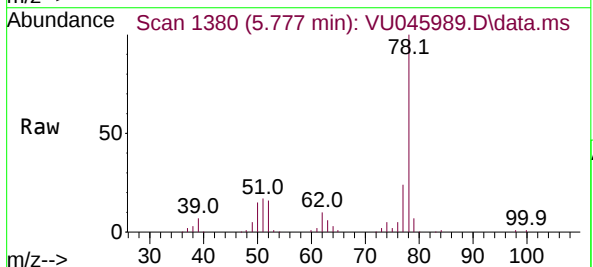
Instrument :  
MSVOA\_U  
ClientSampleId :  
H4658MSD

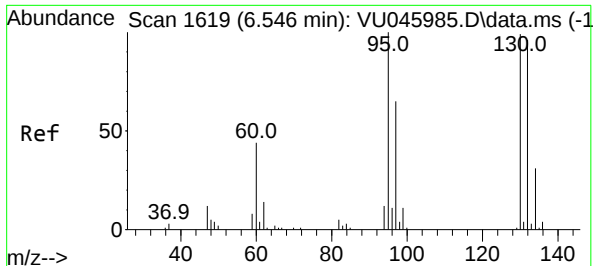
Tgt Ion:117 Resp: 44985  
Ion Ratio Lower Upper  
117 100  
119 93.4 77.5 116.3



#33  
Benzene  
Concen: 4.839 ug/L  
RT: 5.777 min Scan# 1380  
Delta R.T. 0.000 min  
Lab File: VU045989.D  
Acq: 24 Nov 2021 13:03

Tgt Ion: 78 Resp: 131689





#34

Trichloroethene

Concen: 5.633 ug/L

RT: 6.546 min Scan# 1

Delta R.T. 0.000 min

Lab File: VU045989.D

Acq: 24 Nov 2021 13:03

Instrument :

MSVOA\_U

ClientSampleId :

H4658MSD

Tgt Ion: 95 Resp: 39510

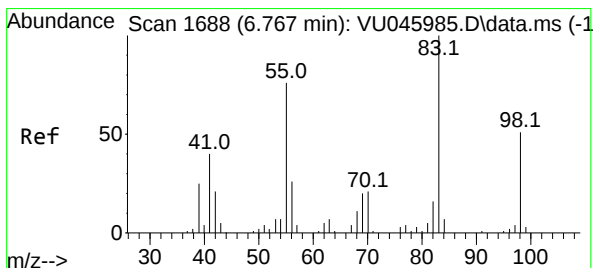
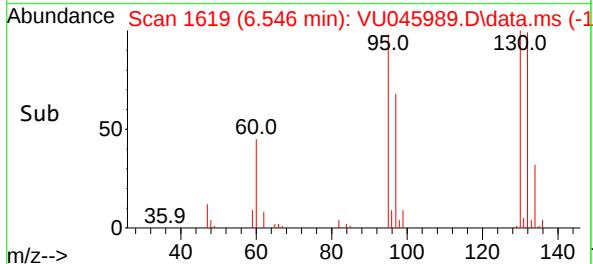
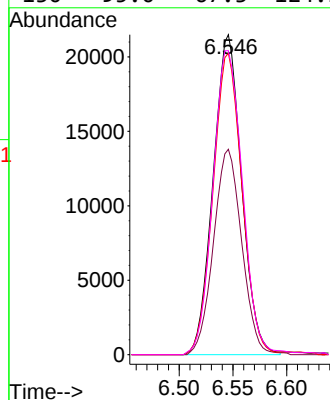
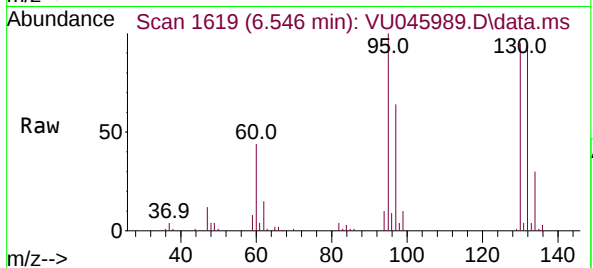
Ion Ratio Lower Upper

95 100

97 64.2 46.5 86.5

132 94.2 65.1 120.9

130 95.0 67.3 124.9



#35

Methylcyclohexane

Concen: 4.821 ug/L

RT: 6.768 min Scan# 1688

Delta R.T. 0.000 min

Lab File: VU045989.D

Acq: 24 Nov 2021 13:03

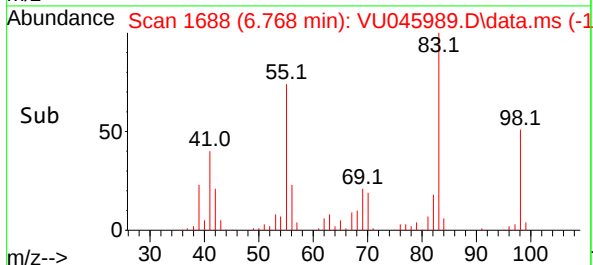
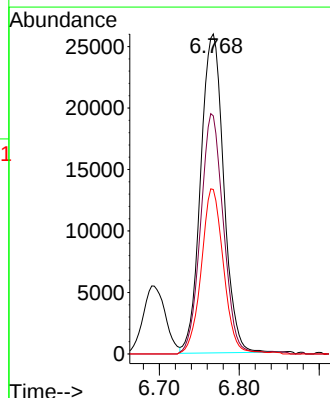
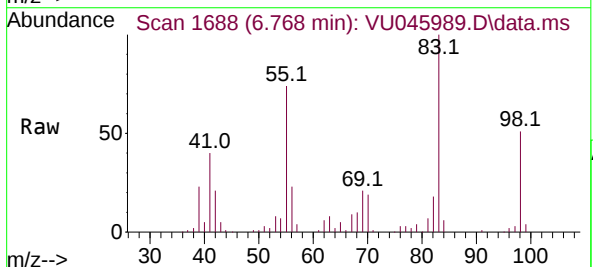
Tgt Ion: 83 Resp: 51932

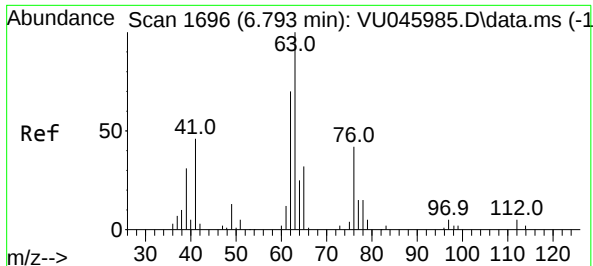
Ion Ratio Lower Upper

83 100

55 74.5 61.9 92.9

98 50.0 39.0 58.6

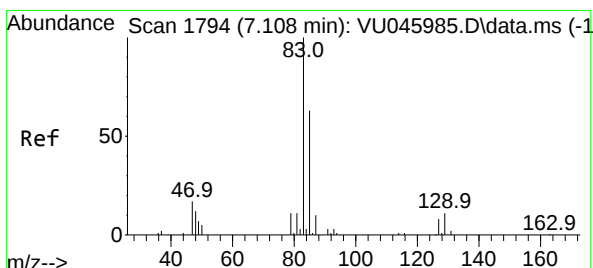
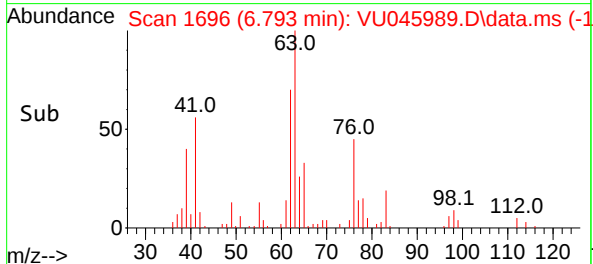
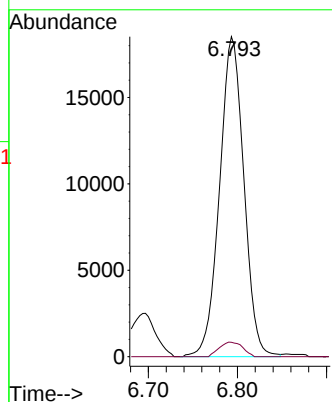
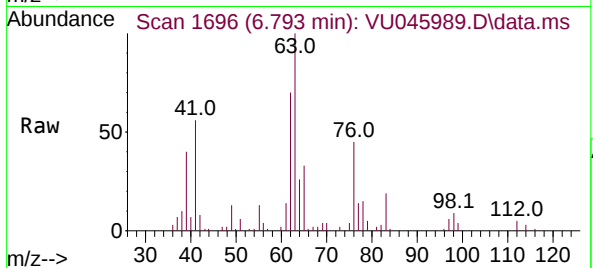




#37  
1,2-Dichloropropane  
Concen: 4.906 ug/L  
RT: 6.793 min Scan# 1  
Delta R.T. 0.000 min  
Lab File: VU045989.D  
Acq: 24 Nov 2021 13:03

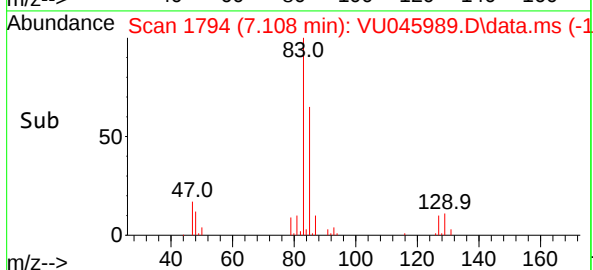
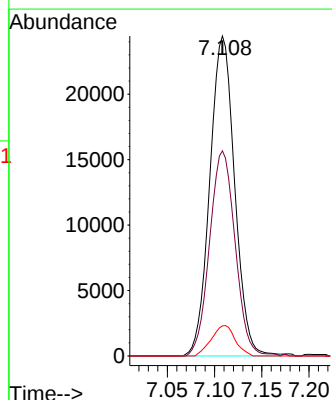
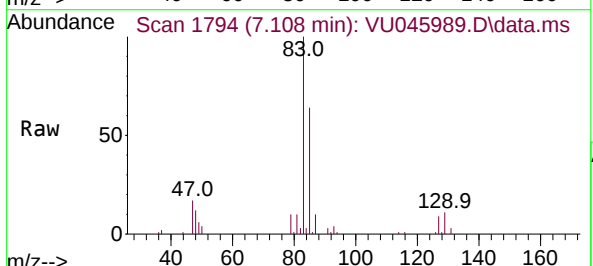
Instrument :  
MSVOA\_U  
ClientSampleId :  
H4658MSD

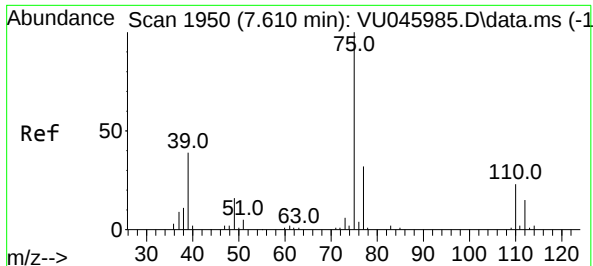
Tgt Ion: 63 Resp: 35136  
Ion Ratio Lower Upper  
63 100  
112 4.4 3.2 4.8



#38  
Bromodichloromethane  
Concen: 5.054 ug/L  
RT: 7.108 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VU045989.D  
Acq: 24 Nov 2021 13:03

Tgt Ion: 83 Resp: 44661  
Ion Ratio Lower Upper  
83 100  
85 64.1 44.0 81.8  
127 9.4 6.3 9.5





#39

cis-1,3-Dichloropropene

Concen: 5.013 ug/L

RT: 7.610 min Scan# 1950

Delta R.T. 0.000 min

Lab File: VU045989.D

Acq: 24 Nov 2021 13:03

Instrument :

MSVOA\_U

ClientSampleId :

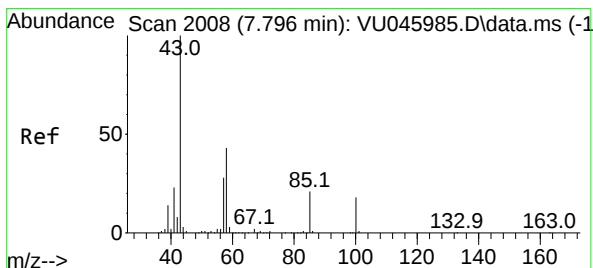
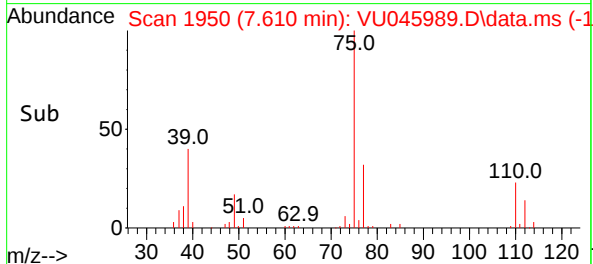
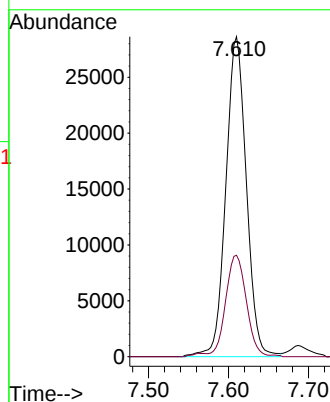
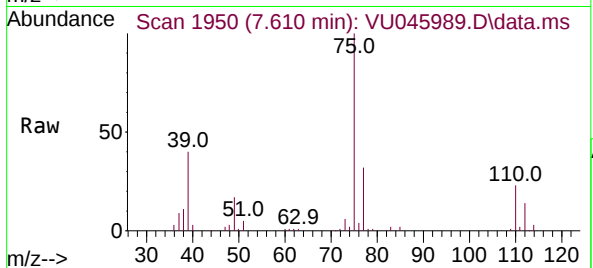
H4658MSD

Tgt Ion: 75 Resp: 51019

Ion Ratio Lower Upper

75 100

77 31.7 22.5 41.9



#40

4-Methyl-2-pentanone

Concen: 59.266 ug/L

RT: 7.796 min Scan# 2008

Delta R.T. 0.000 min

Lab File: VU045989.D

Acq: 24 Nov 2021 13:03

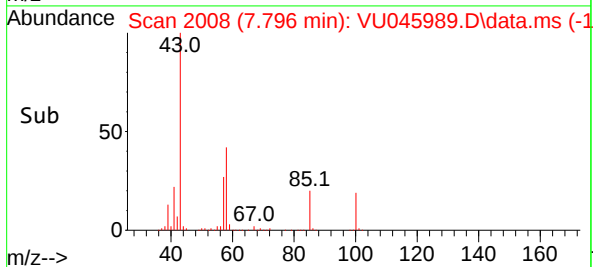
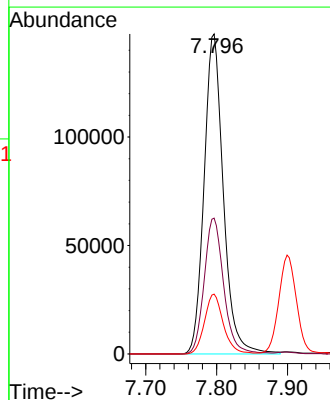
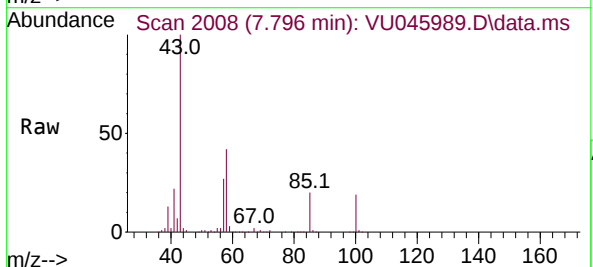
Tgt Ion: 43 Resp: 278419

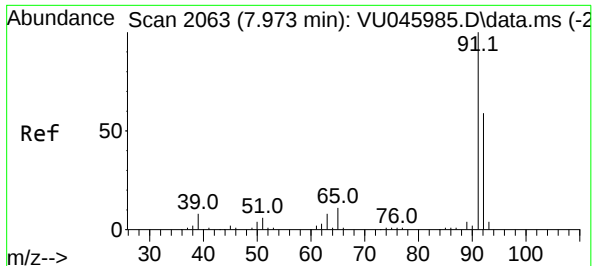
Ion Ratio Lower Upper

43 100

58 43.1 33.1 49.7

100 18.3 13.2 19.8





#42

Toluene

Concen: 5.202 ug/L

RT: 7.970 min Scan# 2063

Delta R.T. -0.003 min

Lab File: VU045989.D

Acq: 24 Nov 2021 13:03

Instrument :

MSVOA\_U

ClientSampleId :

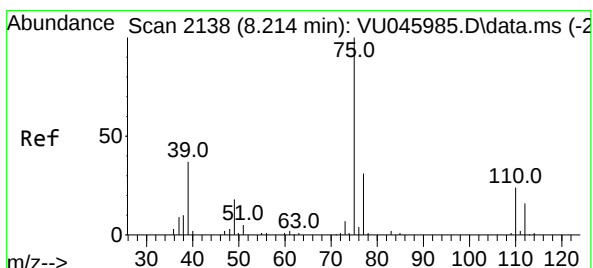
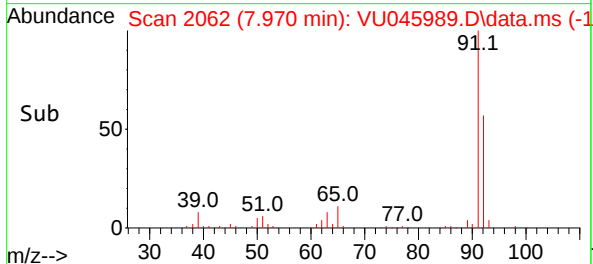
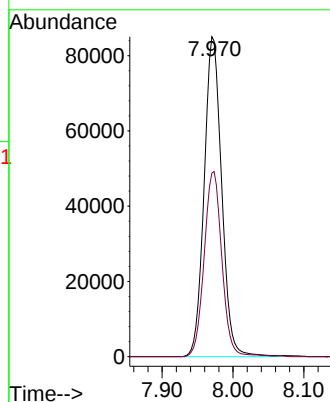
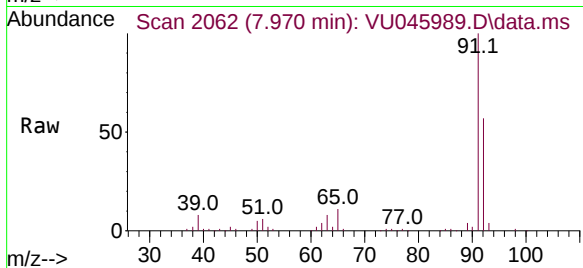
H4658MSD

Tgt Ion: 91 Resp: 146156

Ion Ratio Lower Upper

91 100

92 57.4 41.3 76.7



#44

trans-1,3-Dichloropropene

Concen: 5.245 ug/L

RT: 8.211 min Scan# 2137

Delta R.T. -0.003 min

Lab File: VU045989.D

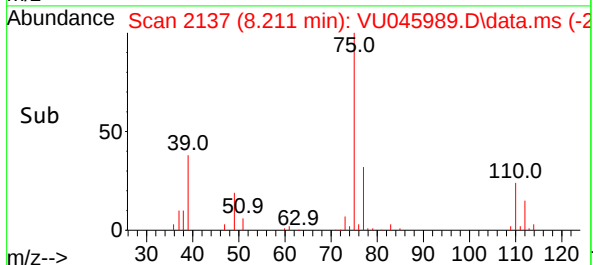
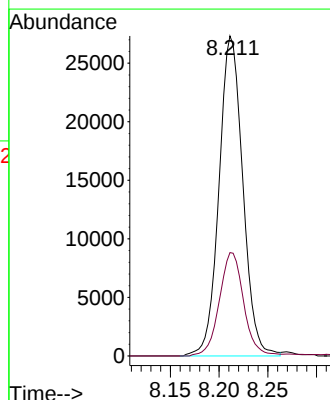
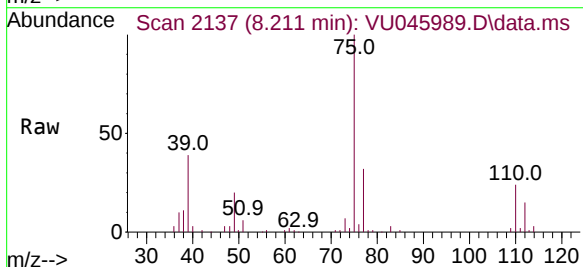
Acq: 24 Nov 2021 13:03

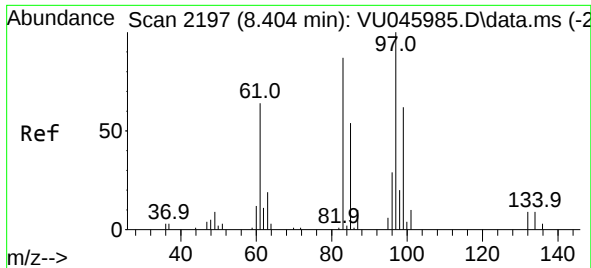
Tgt Ion: 75 Resp: 46440

Ion Ratio Lower Upper

75 100

77 32.3 22.7 42.3



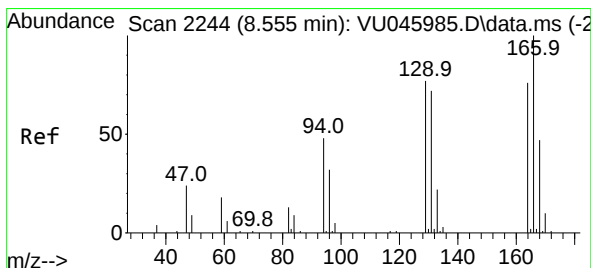
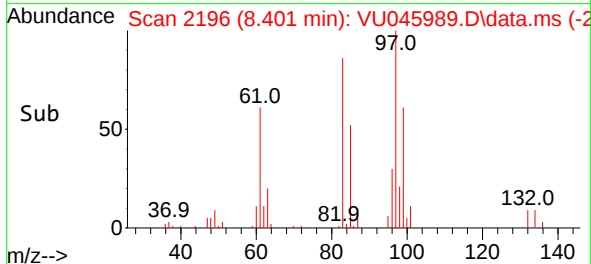
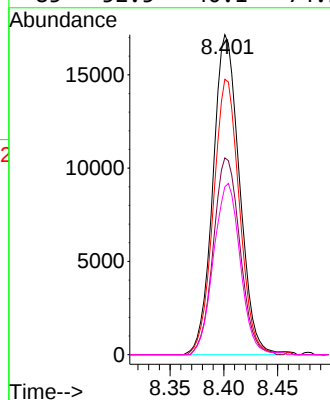
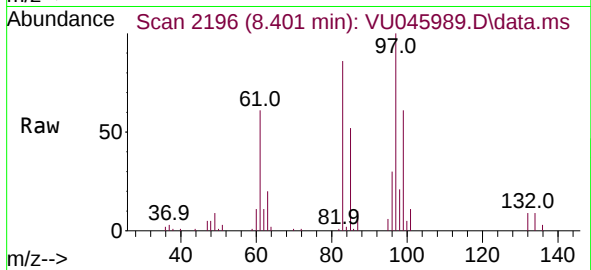


#45  
1,1,2-Trichloroethane  
Concen: 5.545 ug/L  
RT: 8.401 min Scan# 2196  
Delta R.T. -0.003 min  
Lab File: VU045989.D  
Acq: 24 Nov 2021 13:03

Instrument :  
MSVOA\_U  
ClientSampleId :  
H4658MSD

Tgt Ion: 97 Resp: 29485

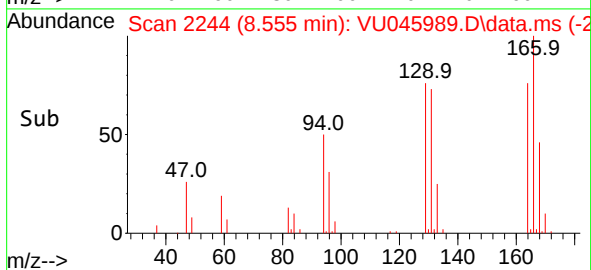
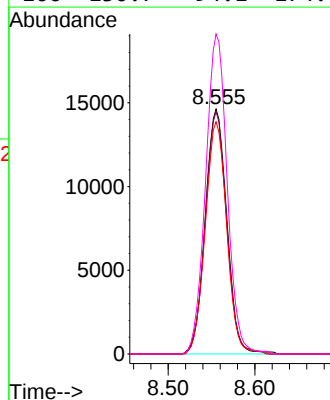
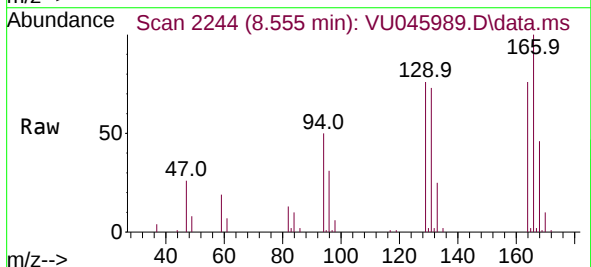
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 99  | 61.5  | 42.3  | 78.5  |
| 83  | 86.0  | 62.0  | 115.2 |
| 85  | 52.5  | 40.1  | 74.5  |

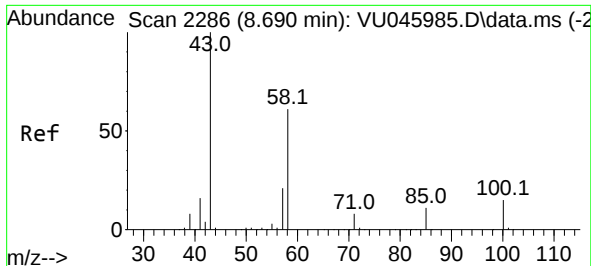


#47  
Tetrachloroethene  
Concen: 5.170 ug/L  
RT: 8.555 min Scan# 2244  
Delta R.T. 0.000 min  
Lab File: VU045989.D  
Acq: 24 Nov 2021 13:03

Tgt Ion: 164 Resp: 25385

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 129 | 99.0  | 71.8  | 133.4 |
| 131 | 94.8  | 68.5  | 127.3 |
| 166 | 130.7 | 94.1  | 174.8 |



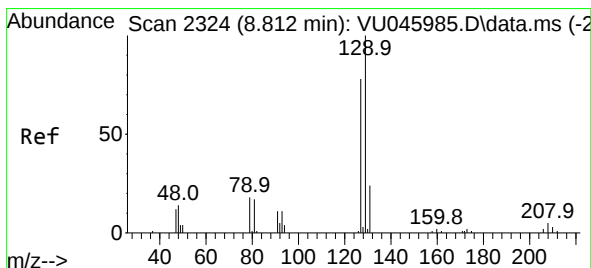
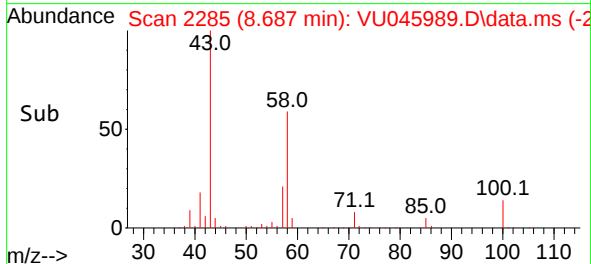
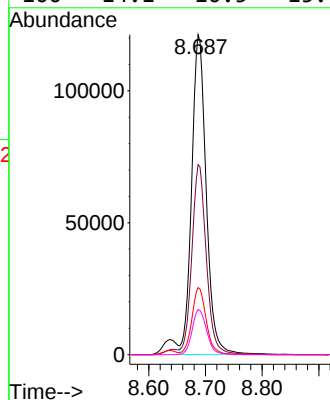
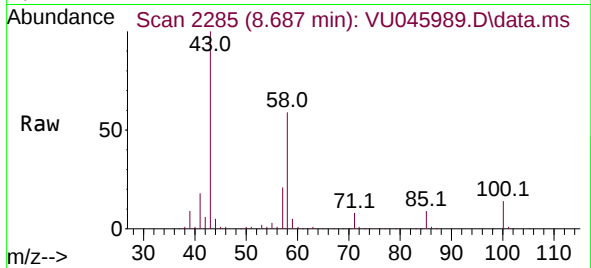


#48  
2-Hexanone  
Concen: 63.270 ug/L  
RT: 8.687 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: VU045989.D  
Acq: 24 Nov 2021 13:03

Instrument :  
MSVOA\_U  
ClientSampleId :  
H4658MSD

Tgt Ion: 43 Resp: 214726

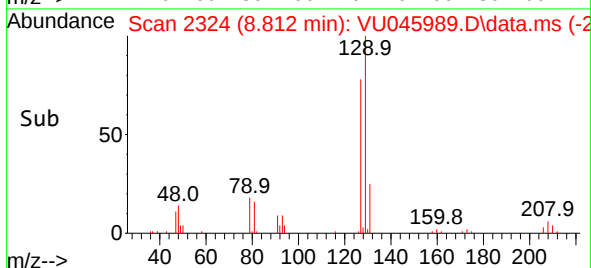
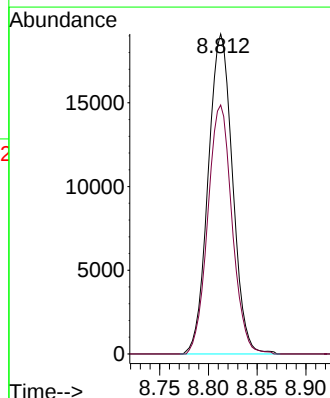
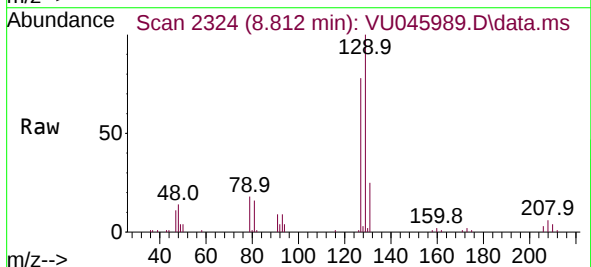
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 59.0  | 46.7  | 70.1  |
| 57  | 20.6  | 16.3  | 24.5  |
| 100 | 14.1  | 10.5  | 15.7  |

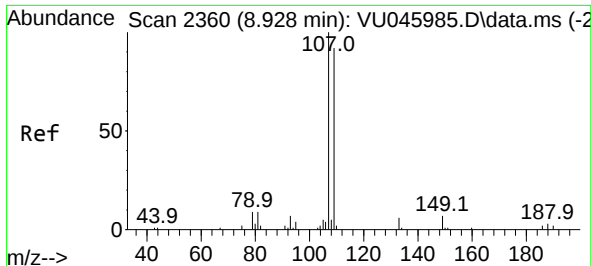


#49  
Dibromochloromethane  
Concen: 5.490 ug/L  
RT: 8.812 min Scan# 2324  
Delta R.T. 0.000 min  
Lab File: VU045989.D  
Acq: 24 Nov 2021 13:03

Tgt Ion: 129 Resp: 33248

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 129 | 100   |       |       |
| 127 | 77.8  | 55.4  | 102.8 |





#50

1,2-Dibromoethane

Concen: 5.636 ug/L

RT: 8.925 min Scan# 21

Delta R.T. -0.003 min

Lab File: VU045989.D

Acq: 24 Nov 2021 13:03

Instrument :

MSVOA\_U

ClientSampleId :

H4658MSD

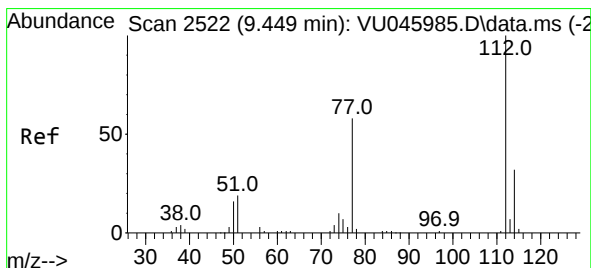
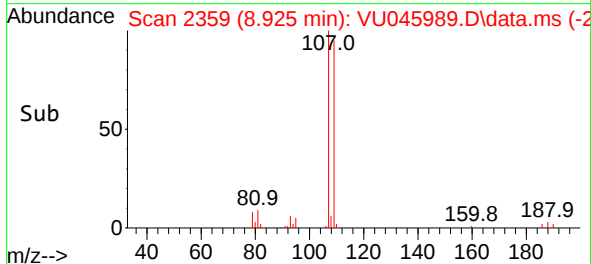
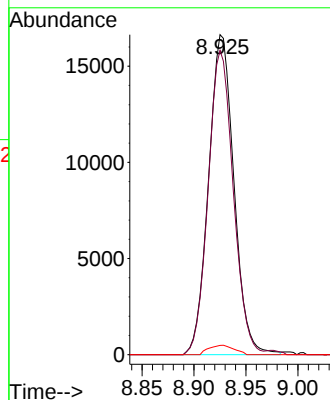
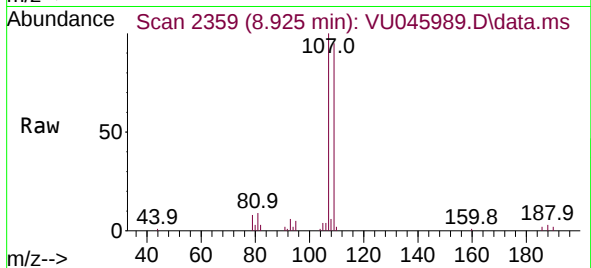
Tgt Ion:107 Resp: 28231

Ion Ratio Lower Upper

107 100

109 95.1 64.0 119.0

188 2.9 2.4 3.6



#51

Chlorobenzene

Concen: 5.268 ug/L

RT: 9.449 min Scan# 2522

Delta R.T. 0.000 min

Lab File: VU045989.D

Acq: 24 Nov 2021 13:03

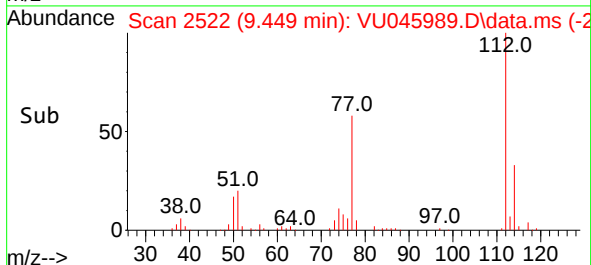
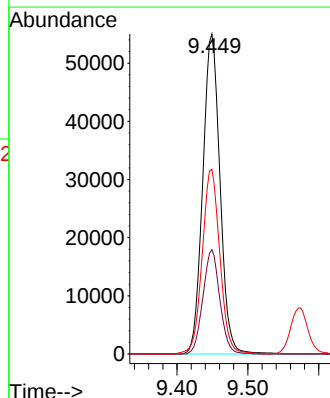
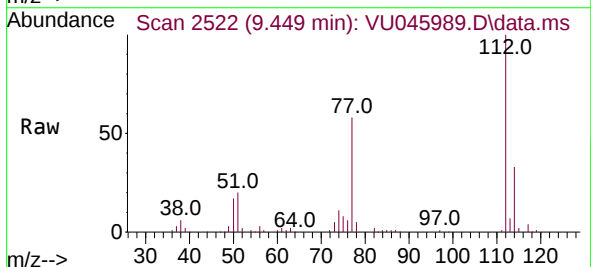
Tgt Ion:112 Resp: 92837

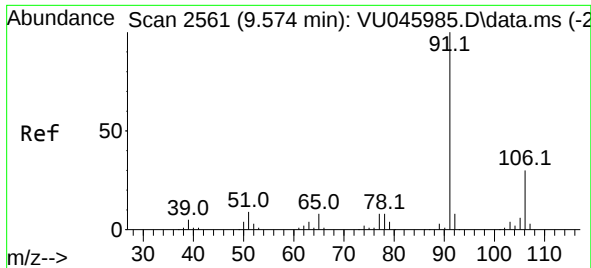
Ion Ratio Lower Upper

112 100

114 32.6 22.1 41.1

77 57.7 48.3 72.5

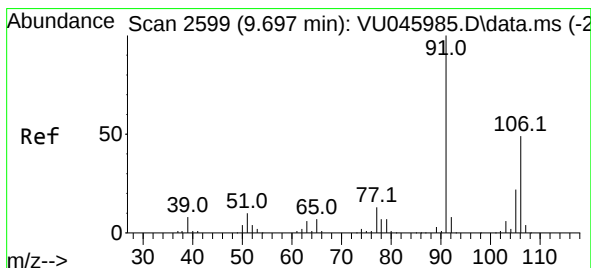
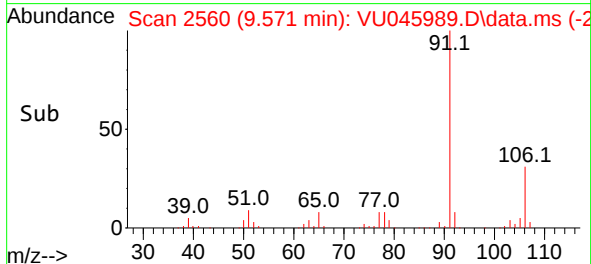
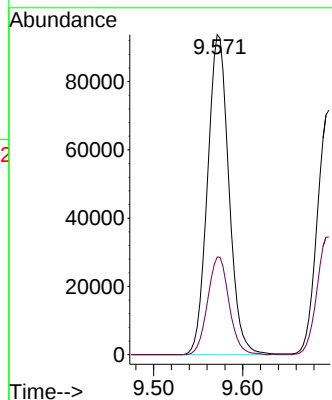
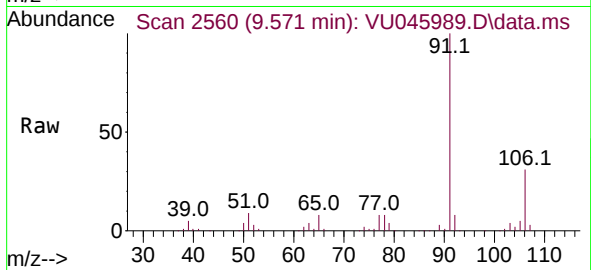




#52  
Ethylbenzene  
Concen: 5.299 ug/L  
RT: 9.571 min Scan# 2561  
Delta R.T. -0.003 min  
Lab File: VU045989.D  
Acq: 24 Nov 2021 13:03

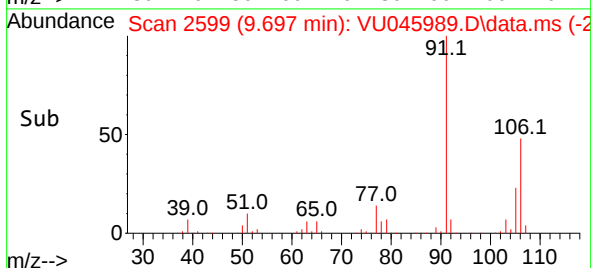
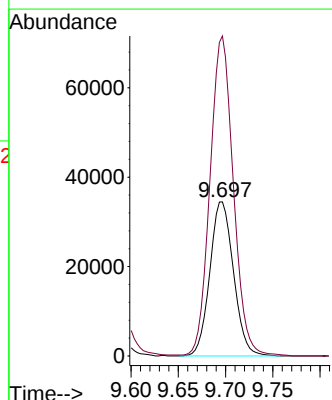
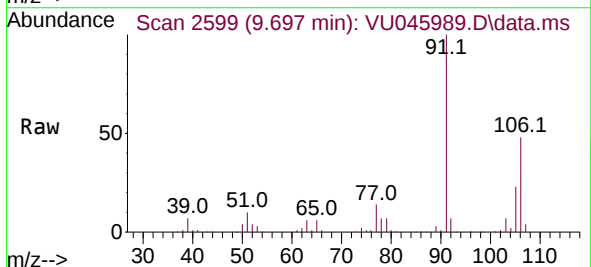
Instrument :  
MSVOA\_U  
ClientSampleId :  
H4658MSD

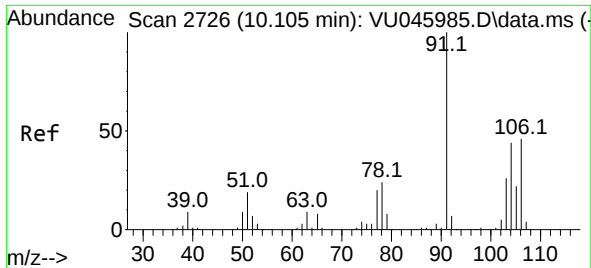
Tgt Ion: 91 Resp: 155829  
Ion Ratio Lower Upper  
91 100  
106 30.5 21.5 39.9



#53  
m,p-Xylene  
Concen: 5.331 ug/L  
RT: 9.697 min Scan# 2599  
Delta R.T. 0.000 min  
Lab File: VU045989.D  
Acq: 24 Nov 2021 13:03

Tgt Ion:106 Resp: 60049  
Ion Ratio Lower Upper  
106 100  
91 207.8 139.4 259.0

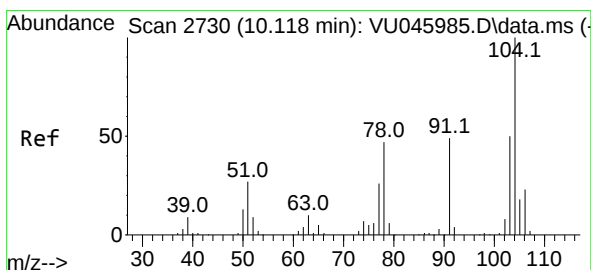
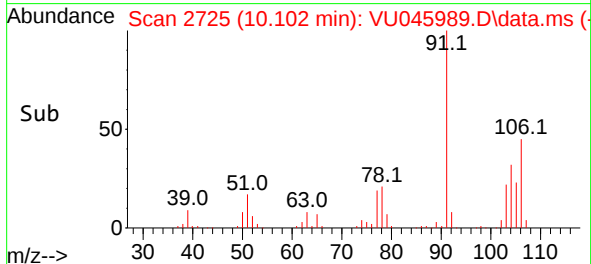
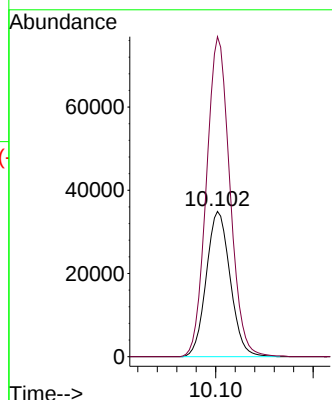
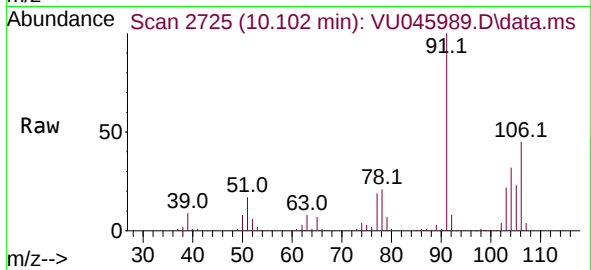




#54  
o-Xylene  
Concen: 5.468 ug/L  
RT: 10.102 min Scan# 2725  
Delta R.T. -0.003 min  
Lab File: VU045989.D  
Acq: 24 Nov 2021 13:03

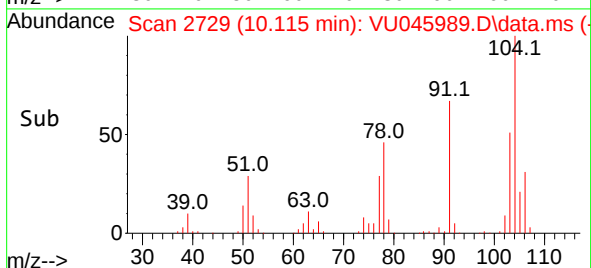
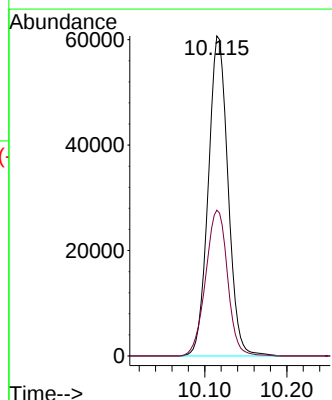
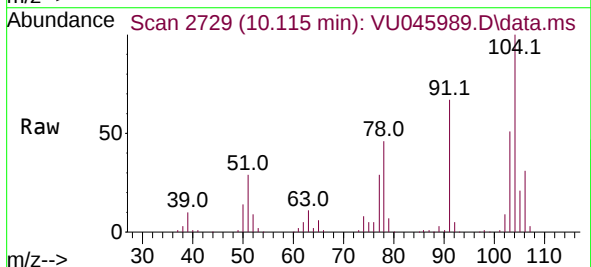
Instrument :  
MSVOA\_U  
ClientSampleId :  
H4658MSD

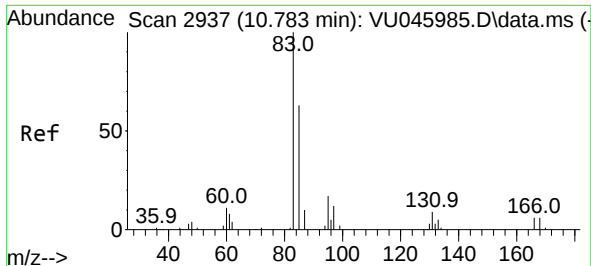
Tgt Ion:106 Resp: 59436  
Ion Ratio Lower Upper  
106 100  
91 220.3 147.5 273.9



#55  
Styrene  
Concen: 5.554 ug/L  
RT: 10.115 min Scan# 2729  
Delta R.T. -0.003 min  
Lab File: VU045989.D  
Acq: 24 Nov 2021 13:03

Tgt Ion:104 Resp: 101631  
Ion Ratio Lower Upper  
104 100  
78 45.5 33.0 61.4





#57

1,1,2,2-Tetrachloroethane

Concen: 5.573 ug/L

RT: 10.783 min Scan# 2937

Delta R.T. 0.000 min

Lab File: VU045989.D

Acq: 24 Nov 2021 13:03

Instrument :

MSVOA\_U

ClientSampleId :

H4658MSD

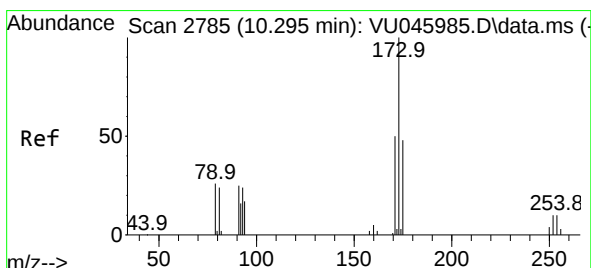
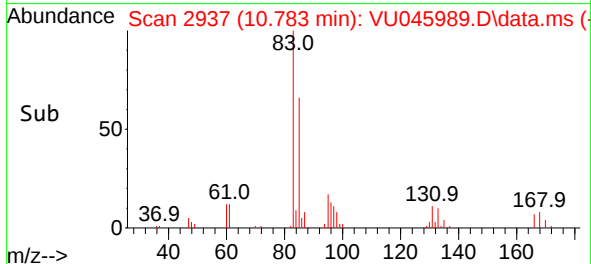
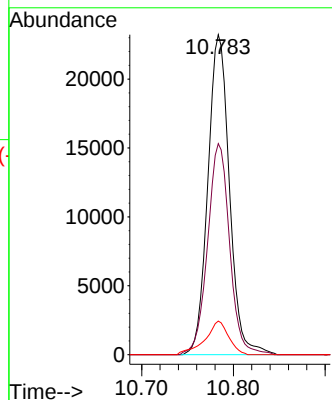
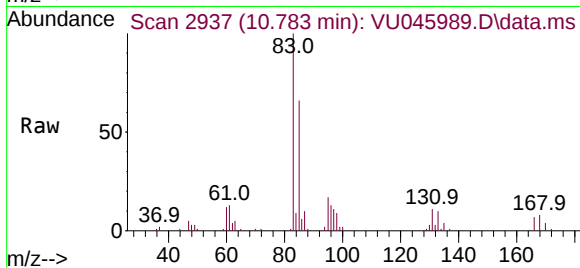
Tgt Ion: 83 Resp: 37956

Ion Ratio Lower Upper

83 100

85 65.9 47.9 89.1

131 10.5 8.1 12.1



#59

Bromoform

Concen: 5.483 ug/L

RT: 10.291 min Scan# 2784

Delta R.T. -0.003 min

Lab File: VU045989.D

Acq: 24 Nov 2021 13:03

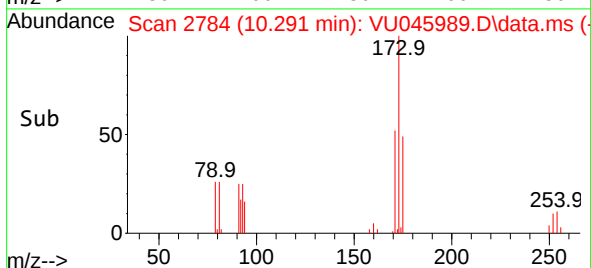
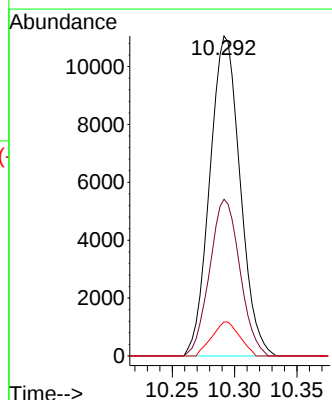
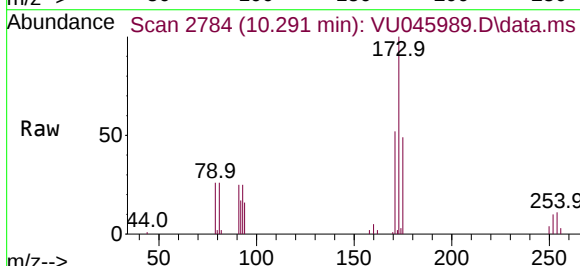
Tgt Ion: 173 Resp: 18741

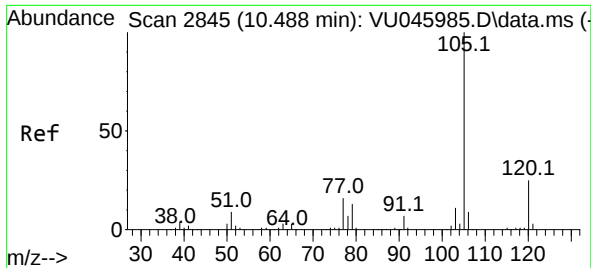
Ion Ratio Lower Upper

173 100

175 48.7 37.8 56.6

254 9.7 7.3 10.9

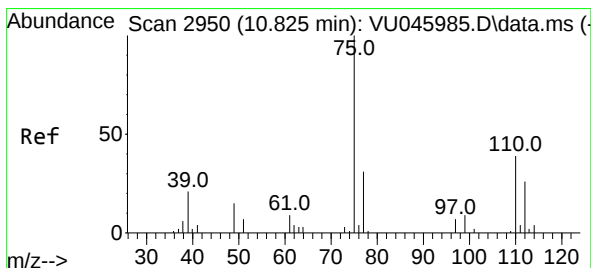
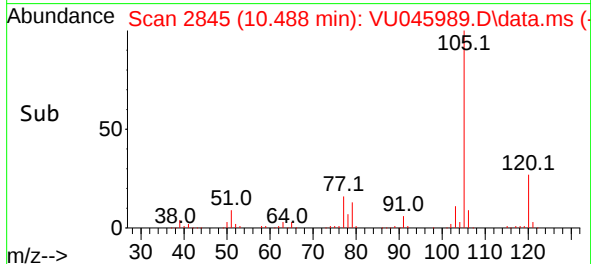
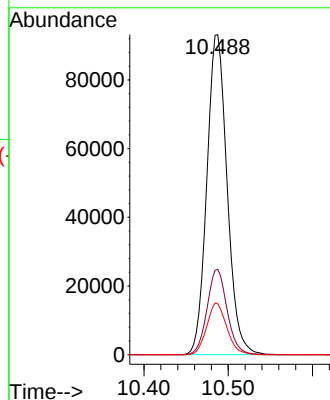
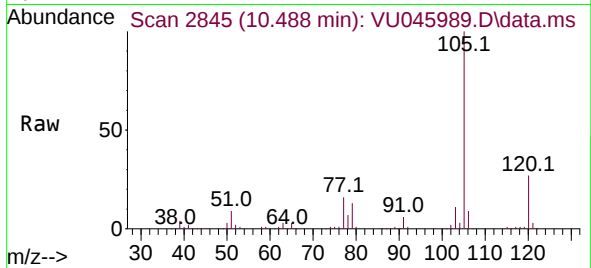




#60  
Isopropylbenzene  
Concen: 5.157 ug/L  
RT: 10.488 min Scan# 2845  
Delta R.T. 0.000 min  
Lab File: VU045989.D  
Acq: 24 Nov 2021 13:03

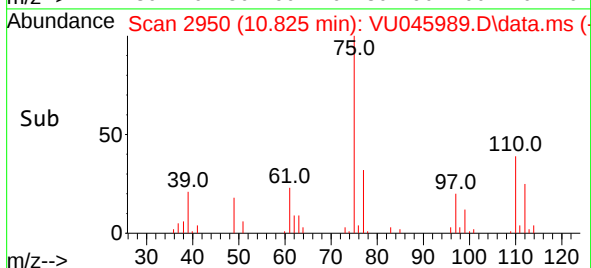
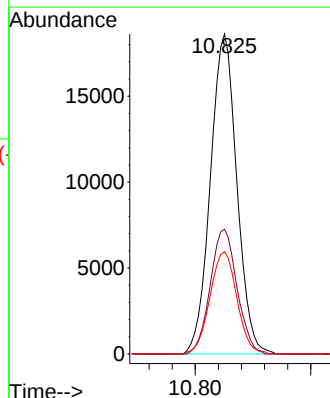
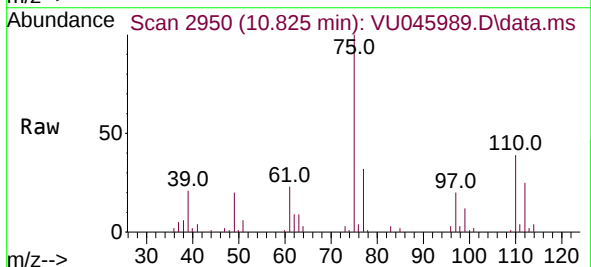
Instrument :  
MSVOA\_U  
ClientSampleId :  
H4658MSD

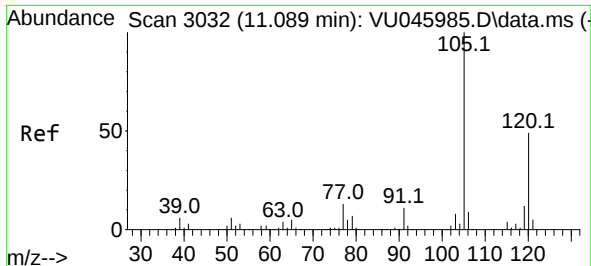
Tgt Ion:105 Resp: 156246  
Ion Ratio Lower Upper  
105 100  
120 26.4 20.7 31.1  
77 15.9 12.6 19.0



#61  
1,2,3-Trichloropropane  
Concen: 5.526 ug/L  
RT: 10.825 min Scan# 2950  
Delta R.T. 0.000 min  
Lab File: VU045989.D  
Acq: 24 Nov 2021 13:03

Tgt Ion: 75 Resp: 29600  
Ion Ratio Lower Upper  
75 100  
110 39.3 29.9 44.9  
77 32.6 25.5 38.3





#62

1,3,5-Trimethylbenzene

Concen: 5.264 ug/L

RT: 11.089 min Scan# 3032

Delta R.T. 0.000 min

Lab File: VU045989.D

Acq: 24 Nov 2021 13:03

Instrument :

MSVOA\_U

ClientSampleId :

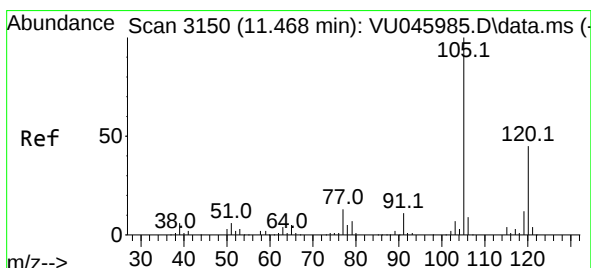
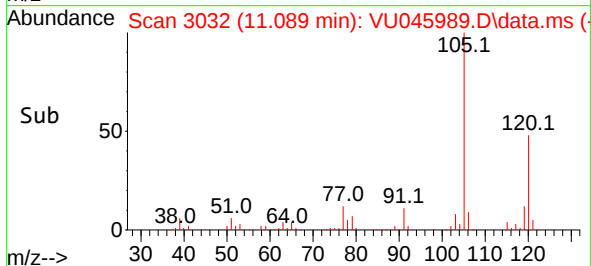
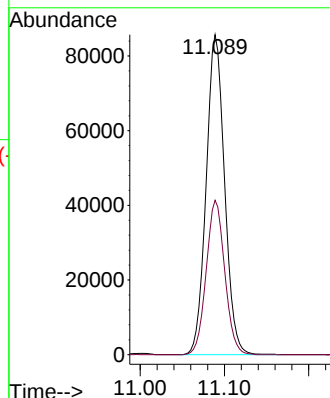
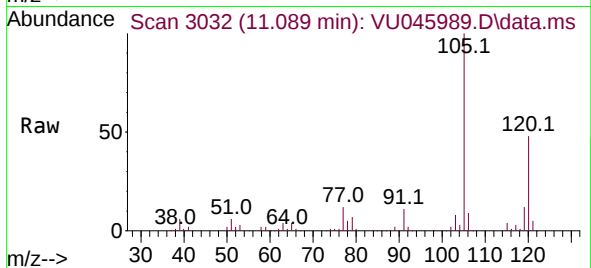
H4658MSD

Tgt Ion:105 Resp: 130387

Ion Ratio Lower Upper

105 100

120 48.5 38.3 57.5



#63

1,2,4-Trimethylbenzene

Concen: 5.250 ug/L

RT: 11.468 min Scan# 3150

Delta R.T. 0.000 min

Lab File: VU045989.D

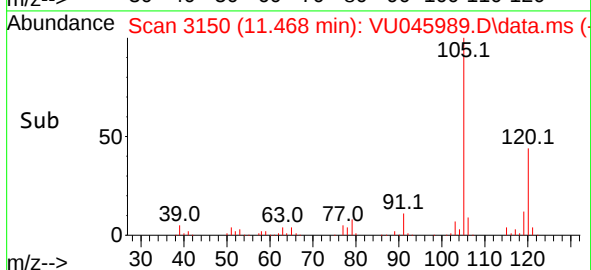
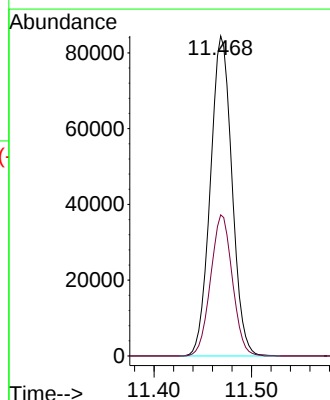
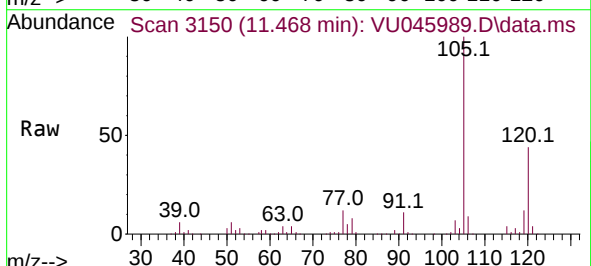
Acq: 24 Nov 2021 13:03

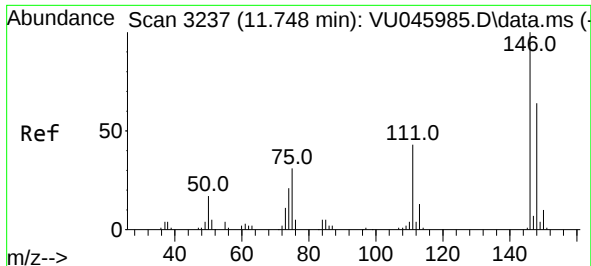
Tgt Ion:105 Resp: 130299

Ion Ratio Lower Upper

105 100

120 44.3 35.8 53.8

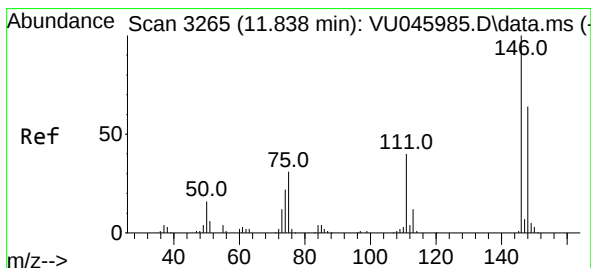
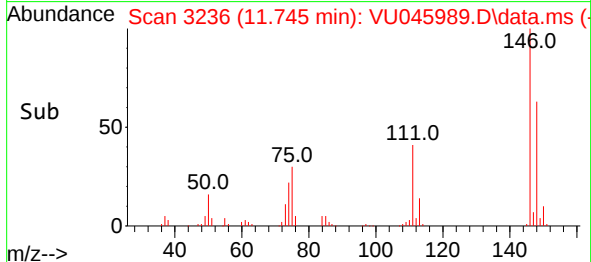
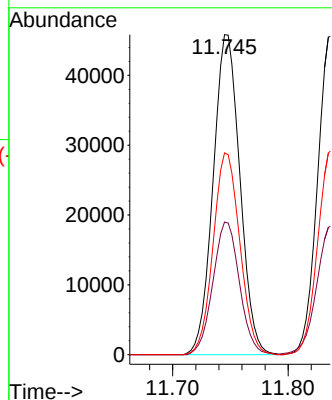
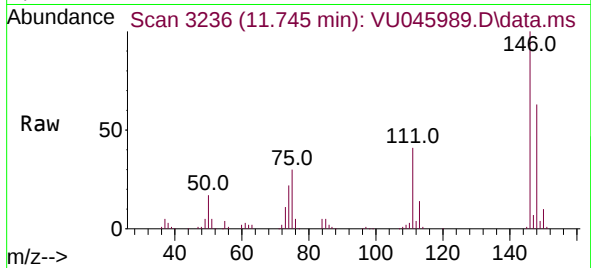




#64  
1,3-Dichlorobenzene  
Concen: 5.219 ug/L  
RT: 11.745 min Scan# 31  
Delta R.T. -0.003 min  
Lab File: VU045989.D  
Acq: 24 Nov 2021 13:03

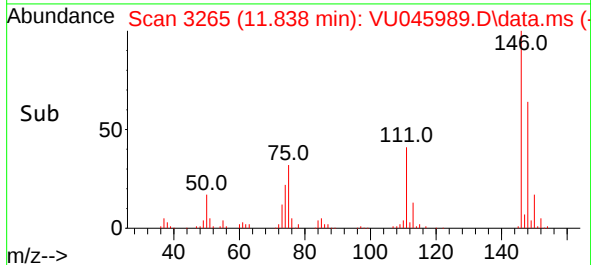
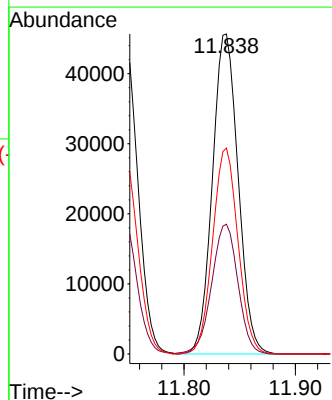
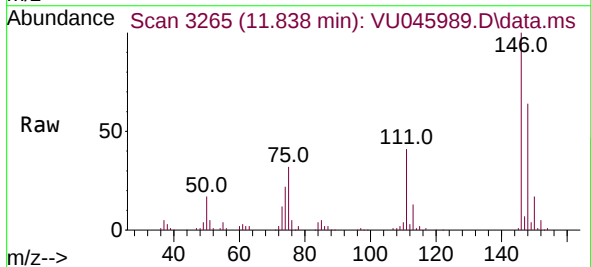
Instrument :  
MSVOA\_U  
ClientSampleId :  
H4658MSD

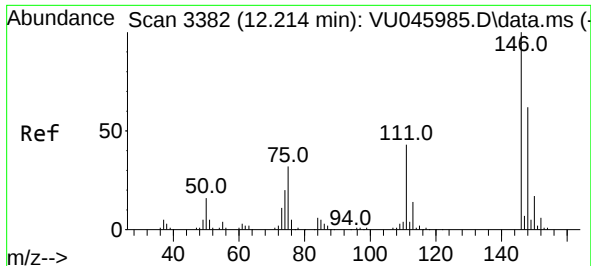
Tgt Ion:146 Resp: 73755  
Ion Ratio Lower Upper  
146 100  
111 41.5 29.9 55.5  
148 63.0 44.3 82.3



#65  
1,4-Dichlorobenzene  
Concen: 5.106 ug/L  
RT: 11.838 min Scan# 3265  
Delta R.T. 0.000 min  
Lab File: VU045989.D  
Acq: 24 Nov 2021 13:03

Tgt Ion:146 Resp: 73304  
Ion Ratio Lower Upper  
146 100  
111 40.6 28.7 53.3  
148 64.4 45.8 85.0





#67

1,2-Dichlorobenzene

Concen: 5.375 ug/L

RT: 12.214 min Scan# 3382

Delta R.T. 0.000 min

Lab File: VU045989.D

Acq: 24 Nov 2021 13:03

Instrument :

MSVOA\_U

ClientSampleId :

H4658MSD

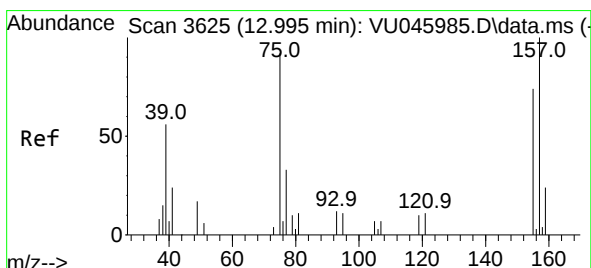
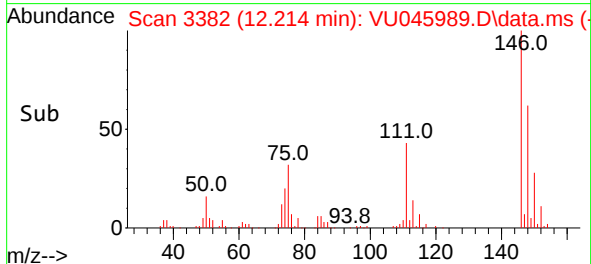
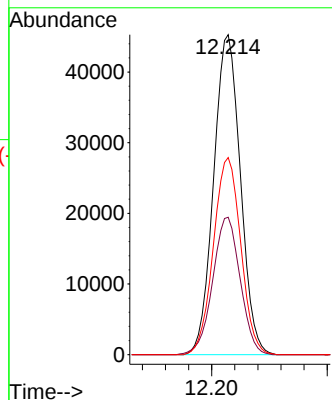
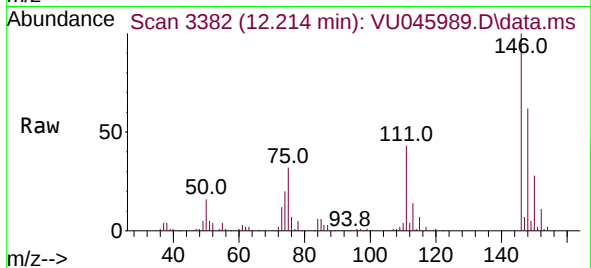
Tgt Ion:146 Resp: 72839

Ion Ratio Lower Upper

146 100

111 43.0 35.4 53.0

148 61.6 51.1 76.7



#68

1,2-Dibromo-3-chloropropane

Concen: 5.221 ug/L

RT: 12.999 min Scan# 3626

Delta R.T. 0.003 min

Lab File: VU045989.D

Acq: 24 Nov 2021 13:03

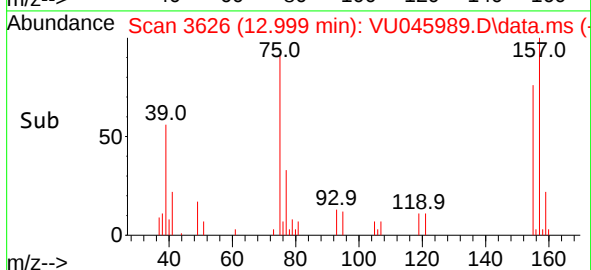
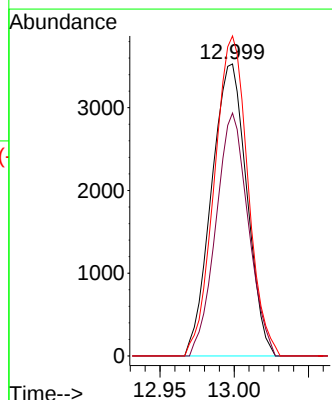
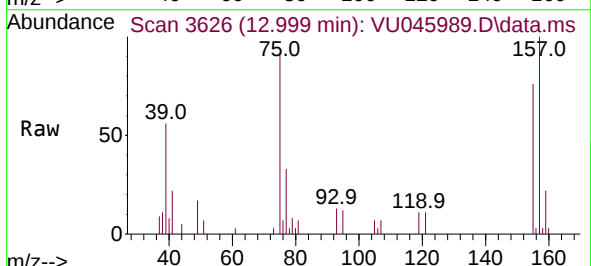
Tgt Ion: 75 Resp: 5819

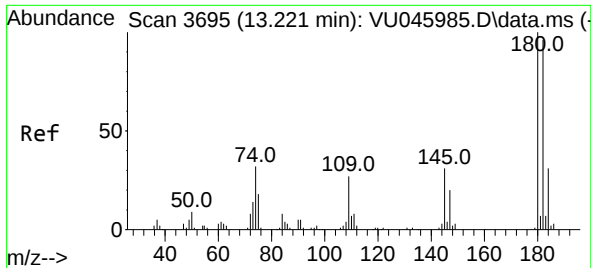
Ion Ratio Lower Upper

75 100

155 83.2 59.2 88.8

157 109.6 76.5 114.7

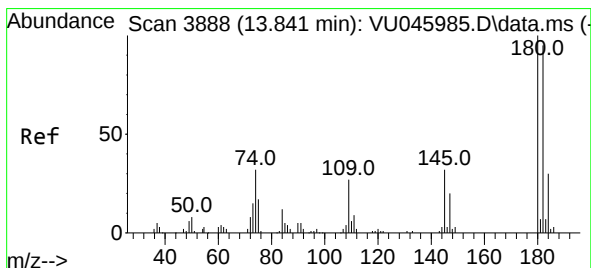
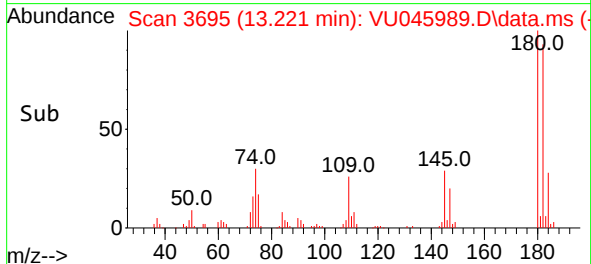
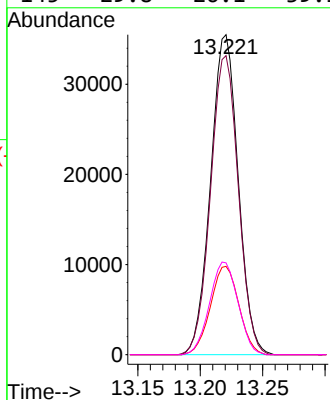
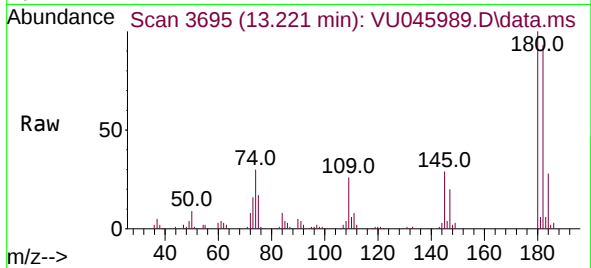




#69  
 1,3,5-Trichlorobenzene  
 Concen: 5.171 ug/L  
 RT: 13.221 min Scan# 30  
 Delta R.T. 0.000 min  
 Lab File: VU045989.D  
 Acq: 24 Nov 2021 13:03

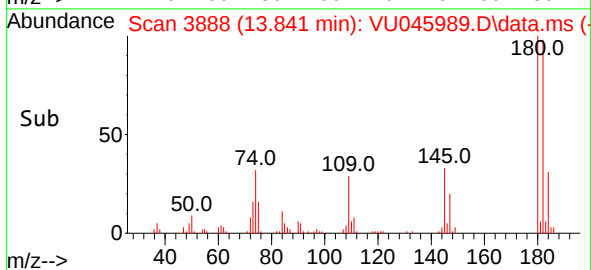
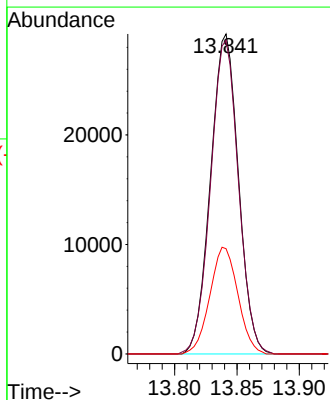
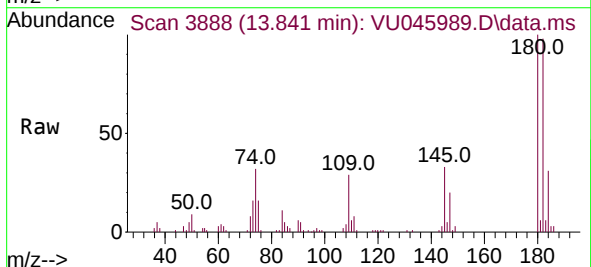
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 H4658MSD

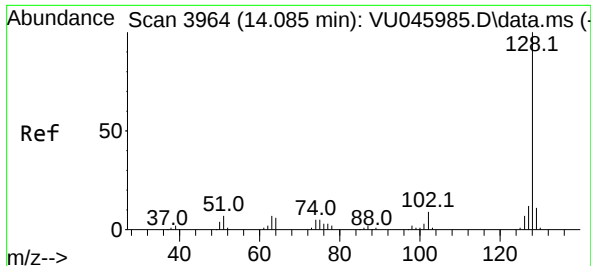
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 54667 |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 94.1  | 76.1  | 114.1 |
| 184      | 28.5  | 25.0  | 37.4  |
| 145      | 29.8  | 26.1  | 39.1  |



#70  
 1,2,4-trichlorobenzene  
 Concen: 5.079 ug/L  
 RT: 13.841 min Scan# 3888  
 Delta R.T. 0.000 min  
 Lab File: VU045989.D  
 Acq: 24 Nov 2021 13:03

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 45437 |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 98.0  | 76.4  | 114.6 |
| 145      | 33.6  | 25.6  | 38.4  |

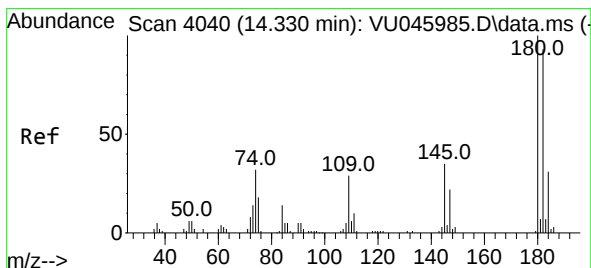
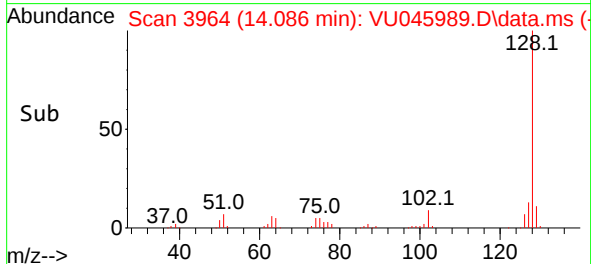
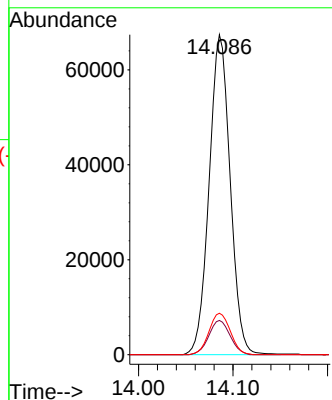
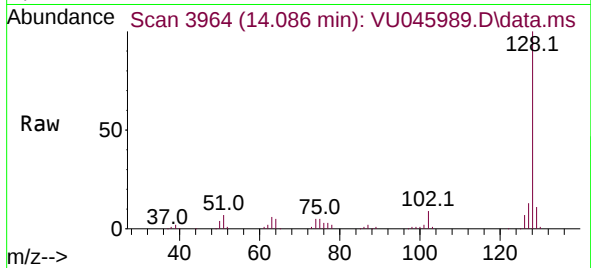




#71  
Naphthalene  
Concen: 5.664 ug/L  
RT: 14.086 min Scan# 3964  
Delta R.T. 0.000 min  
Lab File: VU045989.D  
Acq: 24 Nov 2021 13:03

Instrument :  
MSVOA\_U  
ClientSampleId :  
H4658MSD

Tgt Ion:128 Resp: 104112  
Ion Ratio Lower Upper  
128 100  
129 10.9 8.4 12.6  
127 13.1 10.2 15.2



#72  
1,2,3-Trichlorobenzene  
Concen: 5.301 ug/L  
RT: 14.330 min Scan# 4040  
Delta R.T. 0.000 min  
Lab File: VU045989.D  
Acq: 24 Nov 2021 13:03

Tgt Ion:180 Resp: 47191  
Ion Ratio Lower Upper  
180 100  
182 96.5 76.2 114.4  
145 33.7 28.4 42.6

