

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU111521\  
 Data File : VU045785.D  
 Acq On : 15 Nov 2021 10:35  
 Operator : SY/MD  
 Sample : VSTD0.534  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD0.5034

Quant Time: Nov 16 02:23:16 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR111521WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Tue Nov 16 02:21:17 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| -----                         |        |      |          |       |        |          |
| Internal Standards            |        |      |          |       |        |          |
| 1) 1,4-Difluorobenzene        | 6.253  | 114  | 96864    | 5.000 | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.420  | 117  | 96005    | 5.000 | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.815 | 152  | 45301    | 5.000 | ug/L   | 0.00     |
| System Monitoring Compounds   |        |      |          |       |        |          |
| 4) Vinyl Chloride-d3          | 1.600  | 65   | 3510     | 0.435 | ug/L   | 0.00     |
| 7) Chloroethane-d5            | 1.916  | 69   | 2663     | 0.498 | ug/L   | 0.00     |
| 11) 1,1-Dichloroethene-d2     | 2.568  | 65   | 1466     | 0.456 | ug/L   | 0.00     |
| 20) 2-Butanone-d5             | 4.649  | 46   | 9597     | 4.099 | ug/L   | 0.00     |
| 24) Chloroform-d              | 5.066  | 84   | 5979     | 0.449 | ug/L   | 0.00     |
| 26) 1,2-Dichloroethane-d4     | 5.706  | 65   | 3849     | 0.551 | ug/L   | 0.00     |
| 32) Benzene-d6                | 5.732  | 84   | 11725    | 0.422 | ug/L   | 0.00     |
| 36) 1,2-Dichloropropane-d6    | 6.697  | 67   | 3753     | 0.406 | ug/L   | 0.00     |
| 41) Toluene-d8                | 7.902  | 98   | 10498    | 0.408 | ug/L   | 0.00     |
| 43) trans-1,3-Dichloroprop... | 8.182  | 79   | 1490     | 0.399 | ug/L   | 0.00     |
| 46) 2-Hexanone-d5             | 8.636  | 63   | 5926     | 2.927 | ug/L   | 0.00     |
| 56) 1,1,2,2-Tetrachloroeth... | 10.761 | 84   | 3174     | 0.392 | ug/L   | 0.00     |
| 66) 1,2-Dichlorobenzene-d4    | 12.195 | 152  | 3622     | 0.424 | ug/L   | 0.00     |
| Target Compounds              |        |      |          |       |        |          |
|                               |        |      |          |       |        | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.385  | 85   | 3723     | 0.442 | ug/L   | 95       |
| 3) Chloromethane              | 1.520  | 50   | 4137     | 0.419 | ug/L   | 94       |
| 5) Vinyl chloride             | 1.604  | 62   | 3888     | 0.409 | ug/L   | 100      |
| 6) Bromomethane               | 1.861  | 94   | 2685     | 0.598 | ug/L   | 87       |
| 8) Chloroethane               | 1.935  | 64   | 2394     | 0.529 | ug/L   | 93       |
| 9) Trichlorofluoromethane     | 2.141  | 101  | 5001     | 0.579 | ug/L   | 96       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.581  | 101  | 2964     | 0.471 | ug/L   | 98       |
| 12) 1,1-Dichloroethene        | 2.584  | 96   | 2789     | 0.457 | ug/L   | 86       |
| 13) Acetone                   | 2.655  | 43   | 6227     | 5.025 | ug/L   | 70       |
| 14) Carbon disulfide          | 2.797  | 76   | 9419     | 0.449 | ug/L   | 100      |
| 15) Methyl Acetate            | 2.960  | 43   | 1350     | 0.419 | ug/L # | 58       |
| 16) Methylene chloride        | 3.051  | 84   | 6419     | 0.829 | ug/L   | 96       |
| 17) Methyl tert-butyl Ether   | 3.372  | 73   | 6776     | 0.396 | ug/L   | 98       |
| 18) trans-1,2-Dichloroethene  | 3.359  | 96   | 2987     | 0.443 | ug/L   | 95       |
| 19) 1,1-Dichloroethane        | 3.877  | 63   | 5659     | 0.456 | ug/L   | 96       |
| 21) 2-Butanone                | 4.726  | 43   | 8935     | 4.220 | ug/L # | 69       |
| 22) cis-1,2-Dichloroethene    | 4.671  | 96   | 3136     | 0.436 | ug/L   | 93       |
| 23) Bromochloromethane        | 4.976  | 128  | 1347     | 0.433 | ug/L   | 93       |
| 25) Chloroform                | 5.092  | 83   | 6680     | 0.541 | ug/L   | 94       |
| 27) 1,2-Dichloroethane        | 5.800  | 62   | 3874     | 0.509 | ug/L   | 95       |
| 29) 1,1,1-Trichloroethane     | 5.321  | 97   | 4735     | 0.478 | ug/L   | 96       |
| 30) Cyclohexane               | 5.391  | 56   | 4637     | 0.401 | ug/L   | 94       |
| 31) Carbon tetrachloride      | 5.530  | 117  | 3719     | 0.454 | ug/L   | 94       |
| 33) Benzene                   | 5.780  | 78   | 12223    | 0.435 | ug/L   | 100      |
| 34) Trichloroethene           | 6.542  | 95   | 3297     | 0.449 | ug/L   | 91       |
| 35) Methylcyclohexane         | 6.764  | 83   | 4264     | 0.344 | ug/L   | 98       |
| 37) 1,2-Dichloropropane       | 6.793  | 63   | 3230     | 0.428 | ug/L # | 92       |
| 38) Bromodichloromethane      | 7.111  | 83   | 3914     | 0.455 | ug/L   | 99       |
| 39) cis-1,3-Dichloropropene   | 7.613  | 75   | 4131     | 0.384 | ug/L   | 95       |
| 40) 4-Methyl-2-pentanone      | 7.796  | 43   | 19865    | 3.929 | ug/L   | 97       |
| 42) Toluene                   | 7.970  | 91   | 11713    | 0.381 | ug/L   | 94       |
| 44) trans-1,3-Dichloropropene | 8.214  | 75   | 3532     | 0.373 | ug/L   | 95       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU111521\  
 Data File : VU045785.D  
 Acq On : 15 Nov 2021 10:35  
 Operator : SY/MD  
 Sample : VSTD0.534  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD0.5034

Quant Time: Nov 16 02:23:16 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR111521WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Tue Nov 16 02:21:17 2021  
 Response via : Initial Calibration

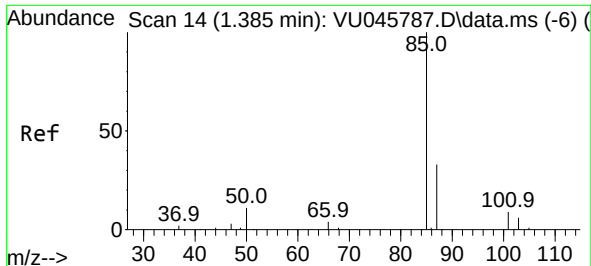
| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| -----                         |        |      |          |       |        |          |
| 45) 1,1,2-Trichloroethane     | 8.407  | 97   | 2409     | 0.442 | ug/L   | 98       |
| 47) Tetrachloroethene         | 8.555  | 164  | 2173     | 0.418 | ug/L   | 96       |
| 48) 2-Hexanone                | 8.687  | 43   | 13559    | 3.649 | ug/L   | 98       |
| 49) Dibromochloromethane      | 8.816  | 129  | 2672     | 0.484 | ug/L   | 93       |
| 50) 1,2-Dibromoethane         | 8.931  | 107  | 2139     | 0.433 | ug/L # | 99       |
| 51) Chlorobenzene             | 9.449  | 112  | 7810     | 0.427 | ug/L   | 98       |
| 52) Ethylbenzene              | 9.574  | 91   | 12135    | 0.382 | ug/L   | 98       |
| 53) m,p-Xylene                | 9.697  | 106  | 4382     | 0.354 | ug/L   | 86       |
| 54) o-Xylene                  | 10.102 | 106  | 4232     | 0.351 | ug/L   | 99       |
| 55) Styrene                   | 10.118 | 104  | 6870     | 0.341 | ug/L   | 95       |
| 57) 1,1,2,2-Tetrachloroethane | 10.787 | 83   | 3123     | 0.428 | ug/L   | 89       |
| 59) Bromoform                 | 10.295 | 173  | 1294     | 0.446 | ug/L # | 88       |
| 60) Isopropylbenzene          | 10.488 | 105  | 10801    | 0.369 | ug/L   | 98       |
| 61) 1,2,3-Trichloropropane    | 10.825 | 75   | 2367     | 0.471 | ug/L # | 91       |
| 62) 1,3,5-Trimethylbenzene    | 11.092 | 105  | 8136     | 0.333 | ug/L   | 97       |
| 63) 1,2,4-Trimethylbenzene    | 11.471 | 105  | 8132     | 0.331 | ug/L   | 97       |
| 64) 1,3-Dichlorobenzene       | 11.748 | 146  | 5494     | 0.411 | ug/L   | 97       |
| 65) 1,4-Dichlorobenzene       | 11.841 | 146  | 6043     | 0.449 | ug/L   | 95       |
| 67) 1,2-Dichlorobenzene       | 12.214 | 146  | 5404     | 0.418 | ug/L   | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 12.999 | 75   | 437      | 0.396 | ug/L # | 60       |
| 69) 1,3,5-Trichlorobenzene    | 13.224 | 180  | 4227     | 0.430 | ug/L   | 96       |
| 70) 1,2,4-trichlorobenzene    | 13.844 | 180  | 3551     | 0.409 | ug/L   | 93       |
| 71) Naphthalene               | 14.089 | 128  | 7045     | 0.381 | ug/L   | 98       |
| 72) 1,2,3-Trichlorobenzene    | 14.333 | 180  | 3749     | 0.452 | ug/L   | 94       |
| -----                         |        |      |          |       |        |          |

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

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MSVOA\_U  
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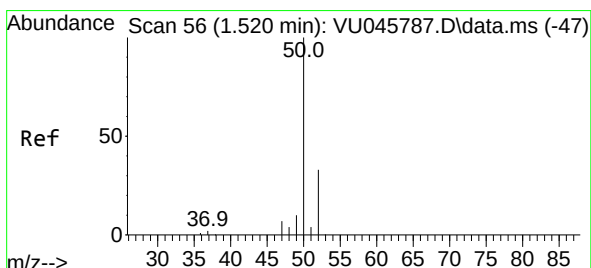
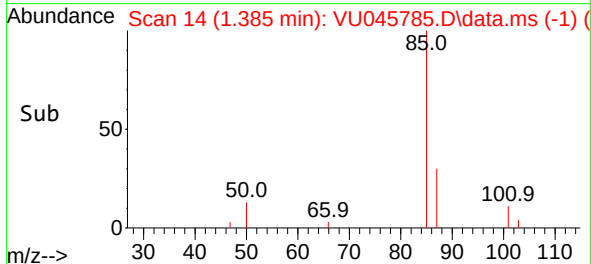
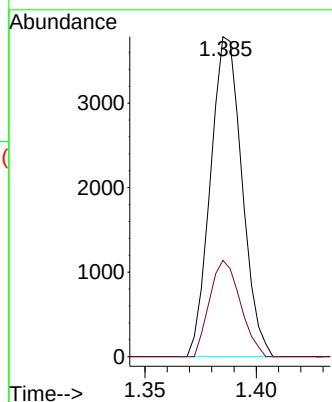
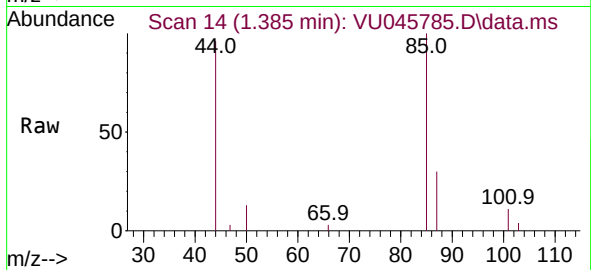




#2  
Dichlorodifluoromethane  
Concen: 0.442 ug/L  
RT: 1.385 min Scan# 14  
Delta R.T. -0.000 min  
Lab File: VU045785.D  
Acq: 15 Nov 2021 10:35

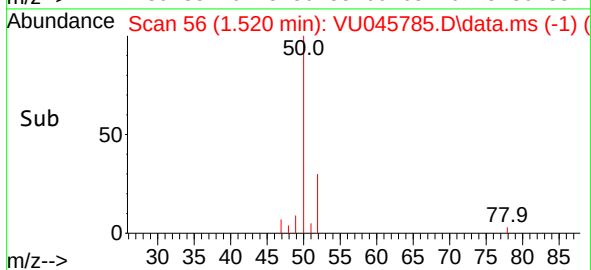
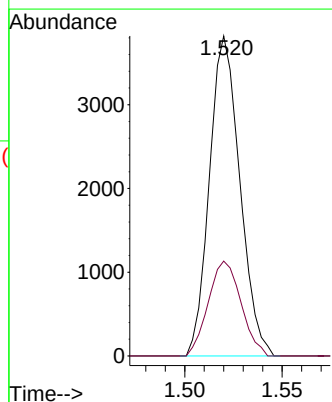
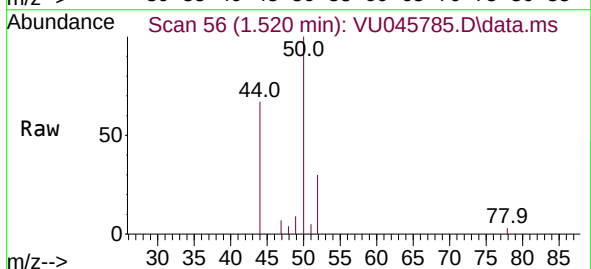
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD0.5034

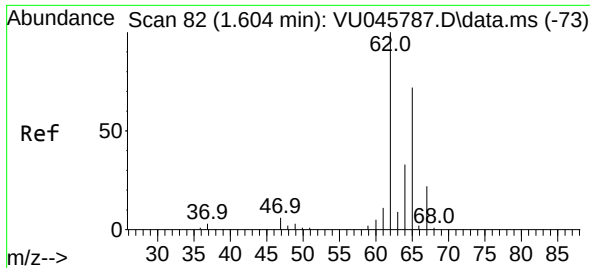
Tgt Ion: 85 Resp: 3723  
Ion Ratio Lower Upper  
85 100  
87 29.3 25.8 38.6



#3  
Chloromethane  
Concen: 0.419 ug/L  
RT: 1.520 min Scan# 56  
Delta R.T. -0.000 min  
Lab File: VU045785.D  
Acq: 15 Nov 2021 10:35

Tgt Ion: 50 Resp: 4137  
Ion Ratio Lower Upper  
50 100  
52 29.7 23.0 42.8

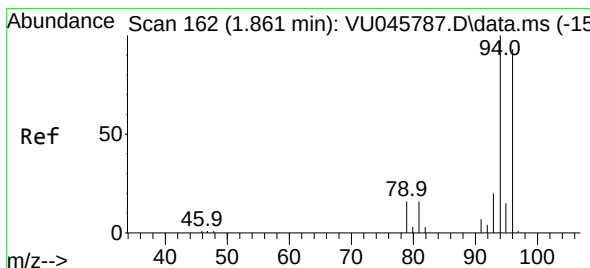
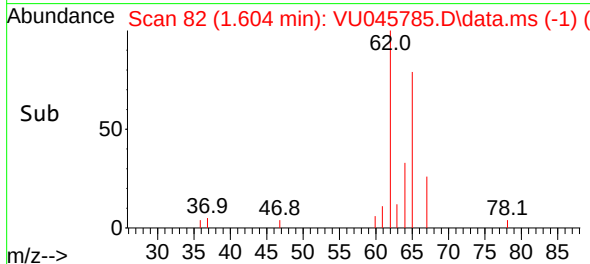
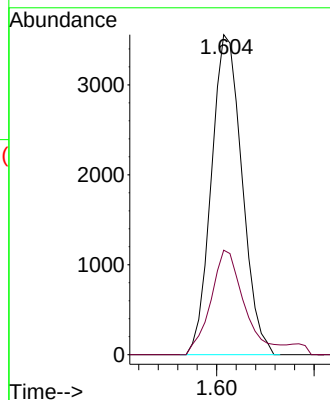
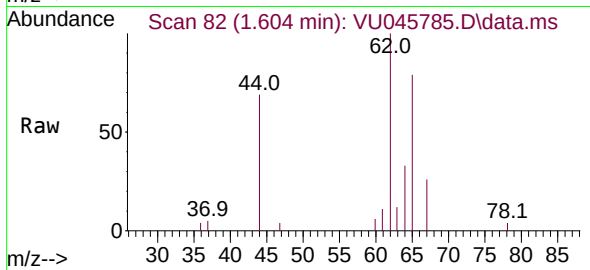




#5  
 Vinyl chloride  
 Concen: 0.409 ug/L  
 RT: 1.604 min Scan# 82  
 Delta R.T. -0.000 min  
 Lab File: VU045785.D  
 Acq: 15 Nov 2021 10:35

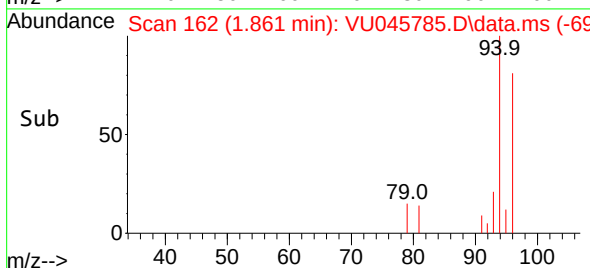
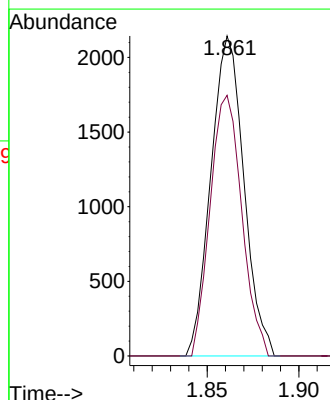
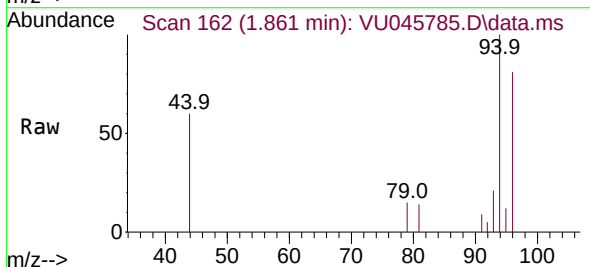
Instrument :  
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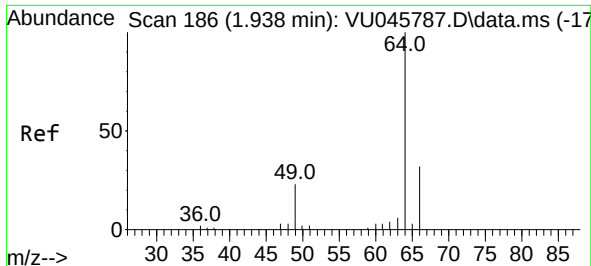
Tgt Ion: 62 Resp: 3888  
 Ion Ratio Lower Upper  
 62 100  
 64 32.6 22.9 42.5



#6  
 Bromomethane  
 Concen: 0.598 ug/L  
 RT: 1.861 min Scan# 162  
 Delta R.T. -0.000 min  
 Lab File: VU045785.D  
 Acq: 15 Nov 2021 10:35

Tgt Ion: 94 Resp: 2685  
 Ion Ratio Lower Upper  
 94 100  
 96 81.4 65.5 121.6

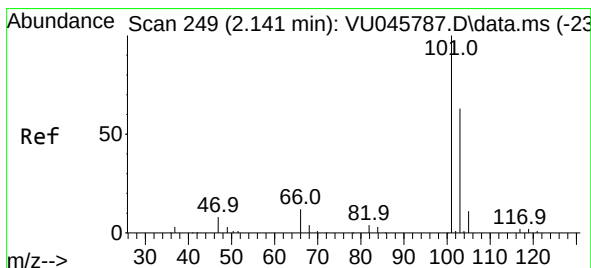
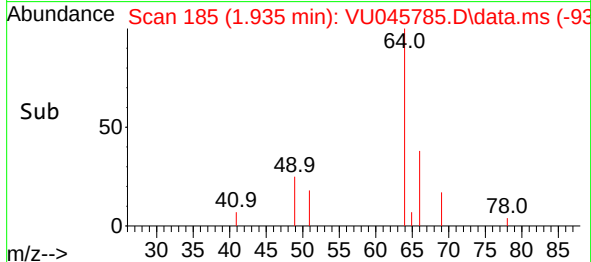
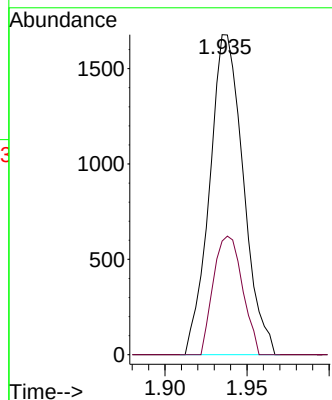
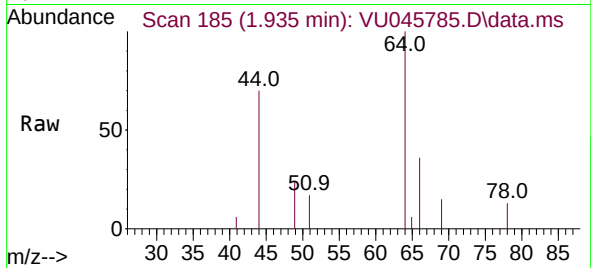




#8  
Chloroethane  
Concen: 0.529 ug/L  
RT: 1.935 min Scan# 185  
Delta R.T. -0.003 min  
Lab File: VU045785.D  
Acq: 15 Nov 2021 10:35

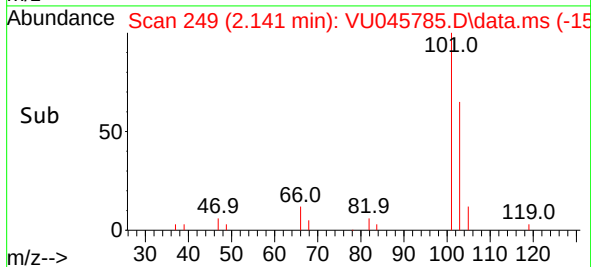
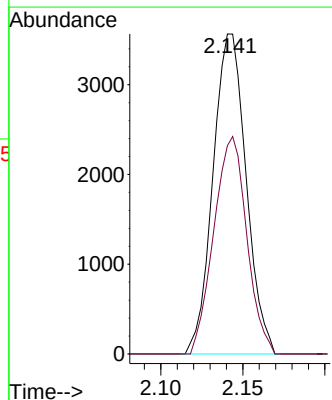
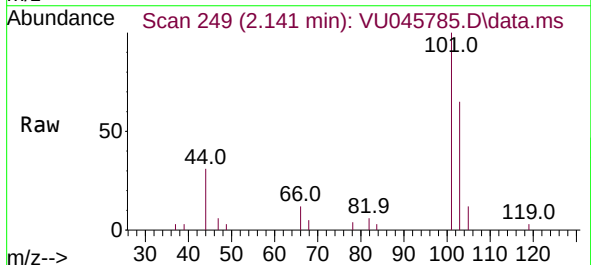
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD0.5034

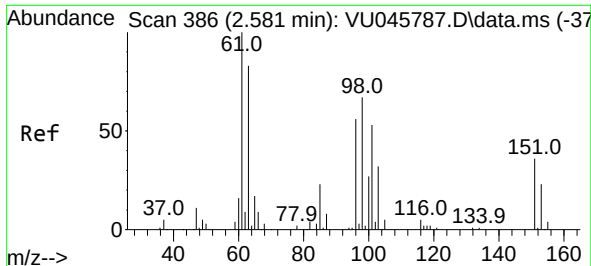
Tgt Ion: 64 Resp: 2394  
Ion Ratio Lower Upper  
64 100  
66 35.5 22.1 41.1



#9  
Trichlorofluoromethane  
Concen: 0.579 ug/L  
RT: 2.141 min Scan# 249  
Delta R.T. -0.000 min  
Lab File: VU045785.D  
Acq: 15 Nov 2021 10:35

Tgt Ion: 101 Resp: 5001  
Ion Ratio Lower Upper  
101 100  
103 67.5 51.5 77.3

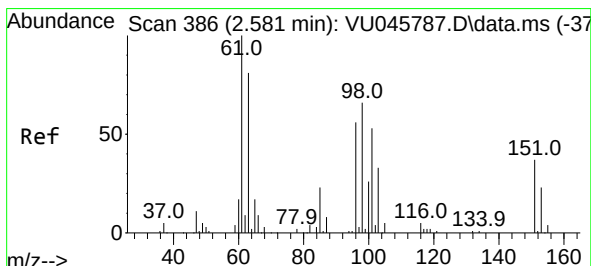
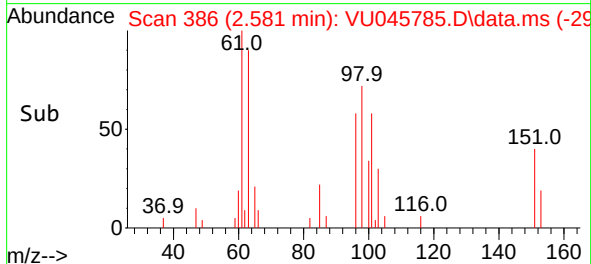
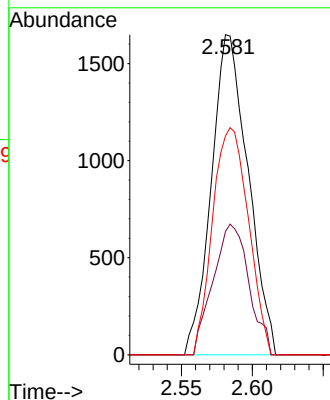
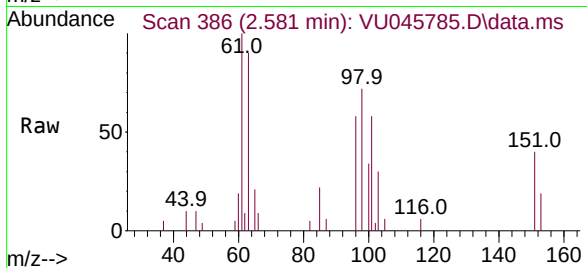




#10  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 0.471 ug/L  
 RT: 2.581 min Scan# 386  
 Delta R.T. -0.000 min  
 Lab File: VU045785.D  
 Acq: 15 Nov 2021 10:35

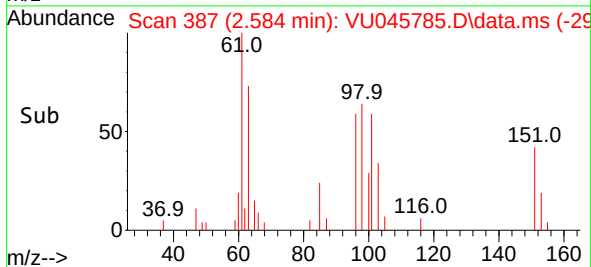
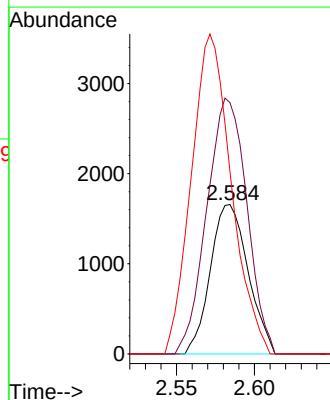
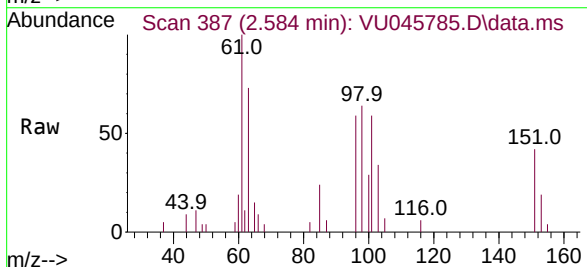
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD0.5034

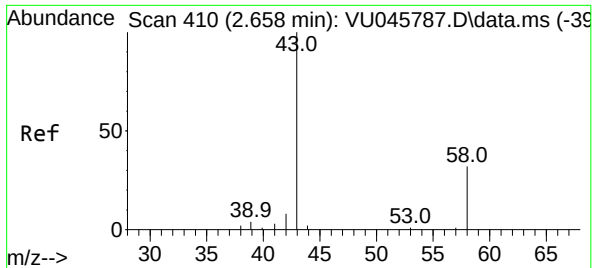
Tgt Ion:101 Resp: 2964  
 Ion Ratio Lower Upper  
 101 100  
 85 40.0 34.6 51.8  
 151 69.4 56.1 84.1



#12  
 1,1-Dichloroethene  
 Concen: 0.457 ug/L  
 RT: 2.584 min Scan# 387  
 Delta R.T. 0.003 min  
 Lab File: VU045785.D  
 Acq: 15 Nov 2021 10:35

Tgt Ion: 96 Resp: 2789  
 Ion Ratio Lower Upper  
 96 100  
 61 168.2 124.7 231.5  
 63 122.2 105.2 195.4





#13

Acetone

Concen: 5.025 ug/L

RT: 2.655 min Scan# 409

Delta R.T. -0.003 min

Lab File: VU045785.D

Acq: 15 Nov 2021 10:35

Instrument :

MSVOA\_U

ClientSampleId :

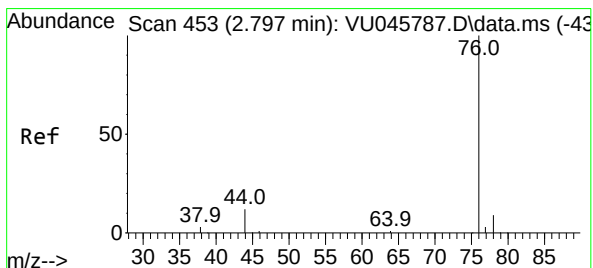
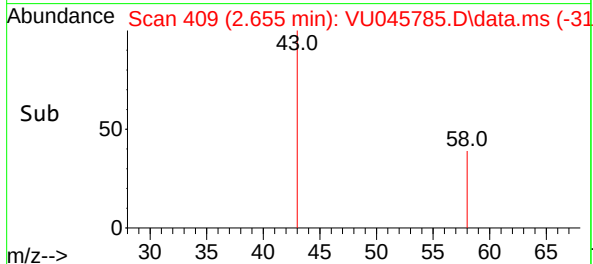
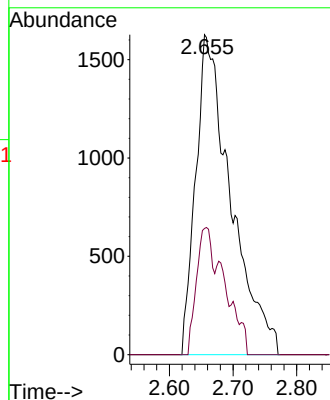
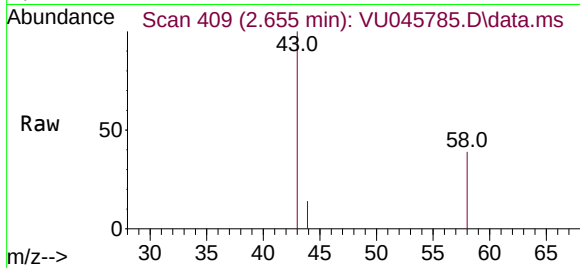
VSTD0.5034

Tgt Ion: 43 Resp: 6227

Ion Ratio Lower Upper

43 100

58 18.5 0.0 71.6



#14

Carbon disulfide

Concen: 0.449 ug/L

RT: 2.797 min Scan# 453

Delta R.T. -0.000 min

Lab File: VU045785.D

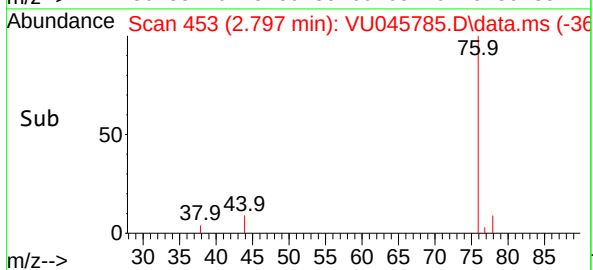
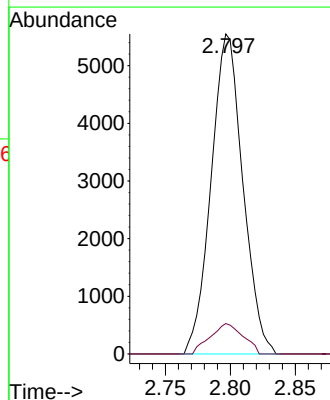
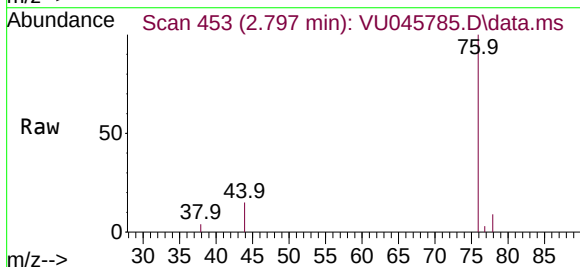
Acq: 15 Nov 2021 10:35

Tgt Ion: 76 Resp: 9419

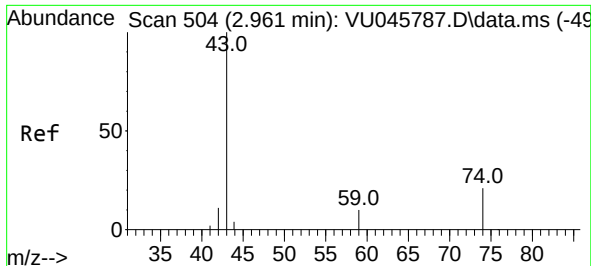
Ion Ratio Lower Upper

76 100

78 9.5 7.5 11.3



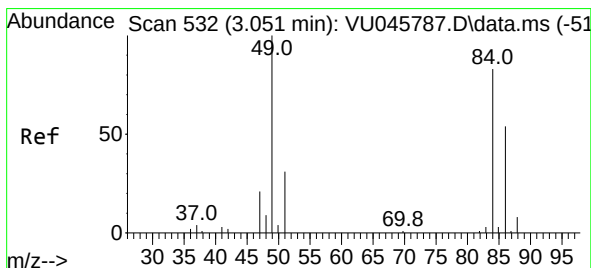
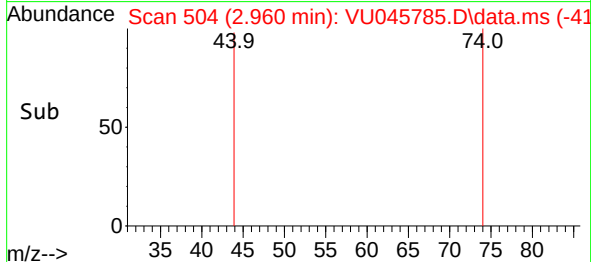
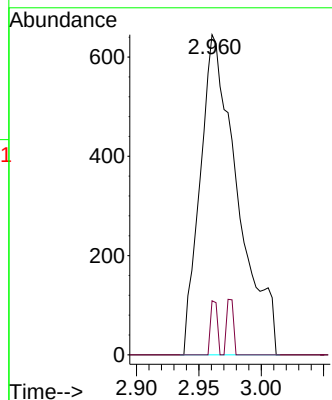
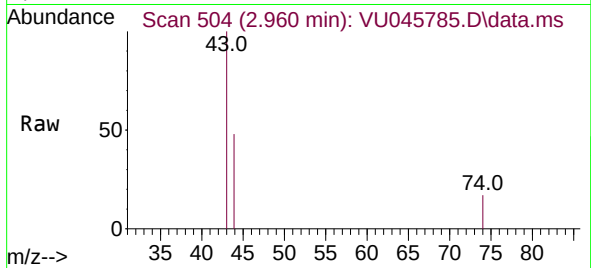




#15  
Methyl Acetate  
Concen: 0.419 ug/L  
RT: 2.960 min Scan# 504  
Delta R.T. -0.000 min  
Lab File: VU045785.D  
Acq: 15 Nov 2021 10:35

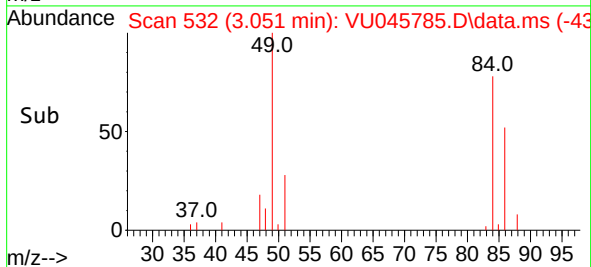
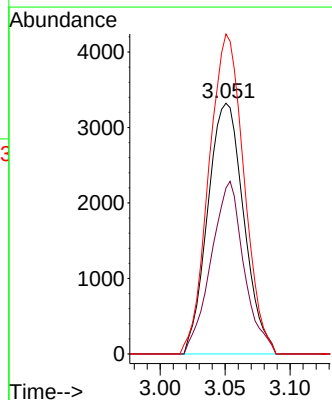
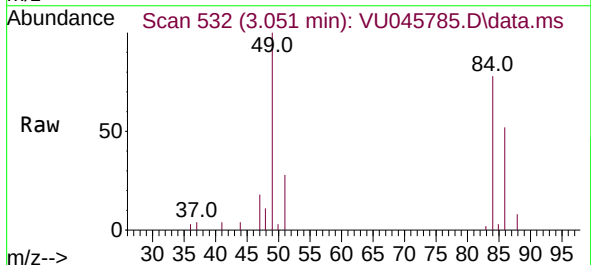
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD0.5034

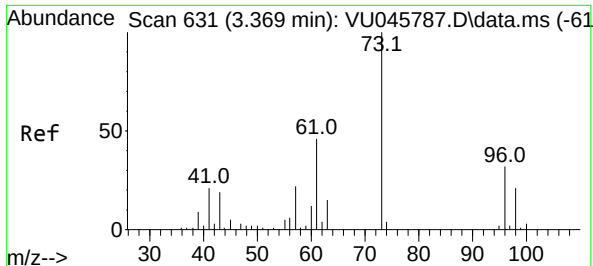
Tgt Ion: 43 Resp: 1350  
Ion Ratio Lower Upper  
43 100  
74 3.0 19.1 28.7#



#16  
Methylene chloride  
Concen: 0.829 ug/L  
RT: 3.051 min Scan# 532  
Delta R.T. -0.000 min  
Lab File: VU045785.D  
Acq: 15 Nov 2021 10:35

Tgt Ion: 84 Resp: 6419  
Ion Ratio Lower Upper  
84 100  
86 66.2 45.8 85.0  
49 127.6 84.5 156.9





#17

Methyl tert-butyl Ether

Concen: 0.396 ug/L

RT: 3.372 min Scan# 61

Delta R.T. 0.003 min

Lab File: VU045785.D

Acq: 15 Nov 2021 10:35

Instrument :

MSVOA\_U

ClientSampleId :

VSTD0.5034

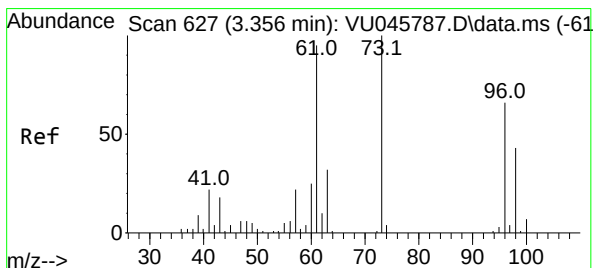
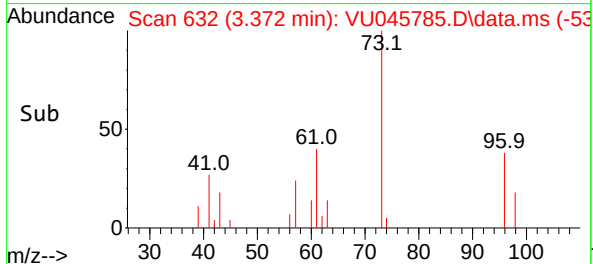
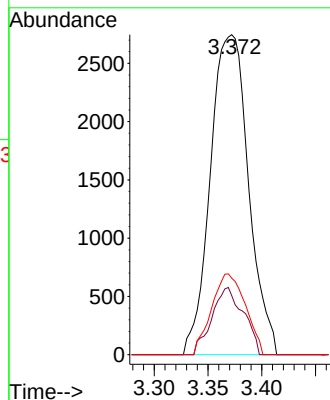
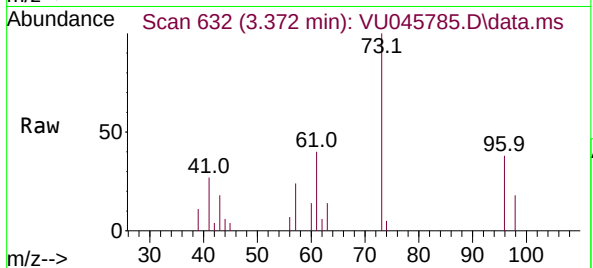
Tgt Ion: 73 Resp: 6776

Ion Ratio Lower Upper

73 100

43 17.4 14.8 22.2

57 22.5 17.4 26.0



#18

trans-1,2-Dichloroethene

Concen: 0.443 ug/L

RT: 3.359 min Scan# 628

Delta R.T. 0.003 min

Lab File: VU045785.D

Acq: 15 Nov 2021 10:35

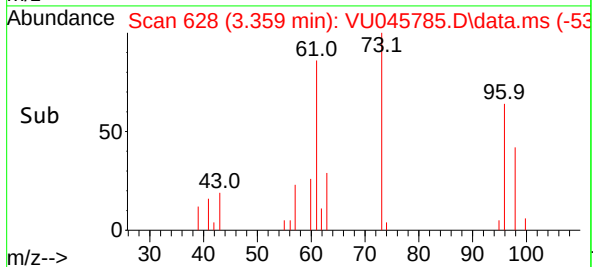
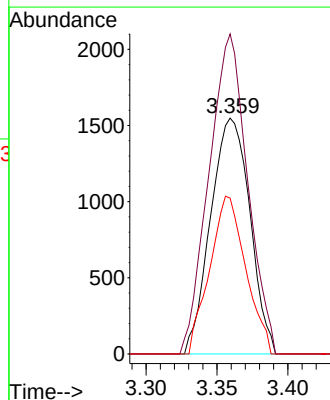
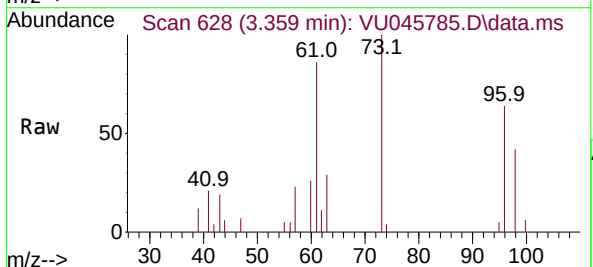
Tgt Ion: 96 Resp: 2987

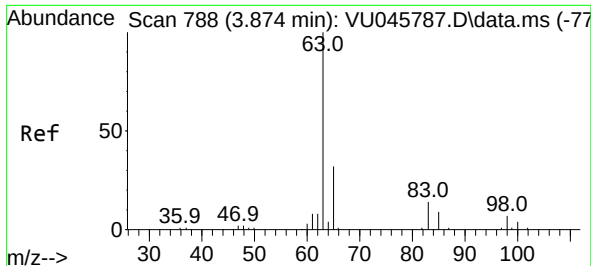
Ion Ratio Lower Upper

96 100

61 135.6 100.8 187.2

98 66.0 45.1 83.7





#19

1,1-Dichloroethane

Concen: 0.456 ug/L

RT: 3.877 min Scan# 71

Delta R.T. 0.003 min

Lab File: VU045785.D

Acq: 15 Nov 2021 10:35

Instrument :

MSVOA\_U

ClientSampleId :

VSTD0.5034

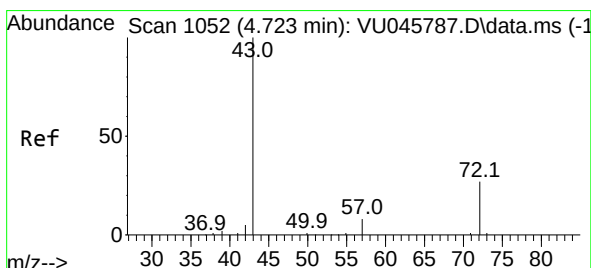
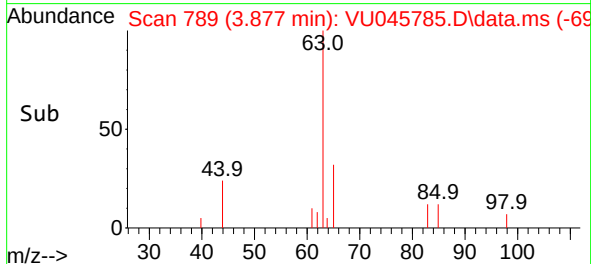
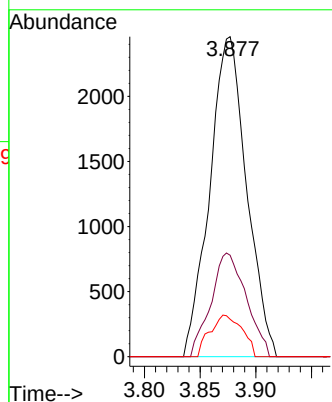
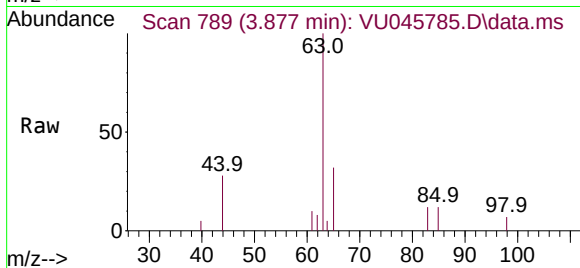
Tgt Ion: 63 Resp: 5659

Ion Ratio Lower Upper

63 100

65 30.1 22.3 41.5

83 11.1 9.6 17.8



#21

2-Butanone

Concen: 4.220 ug/L

RT: 4.726 min Scan# 1053

Delta R.T. 0.003 min

Lab File: VU045785.D

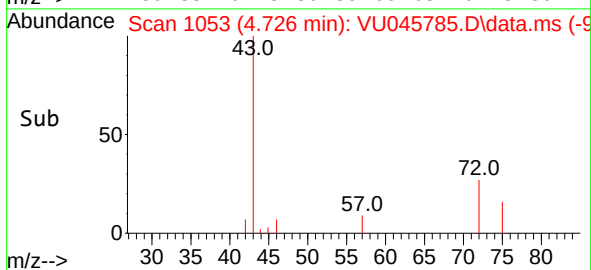
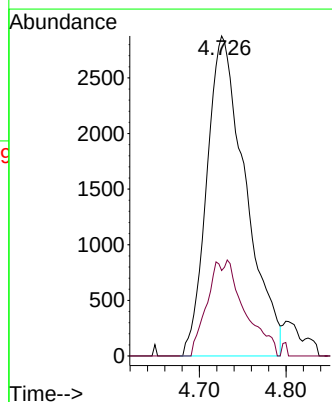
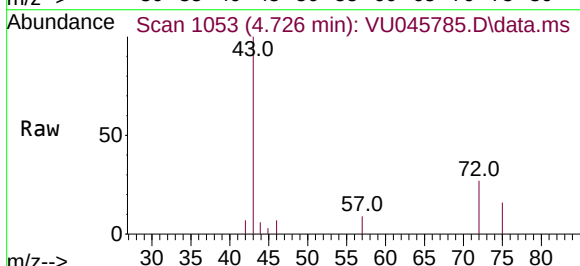
Acq: 15 Nov 2021 10:35

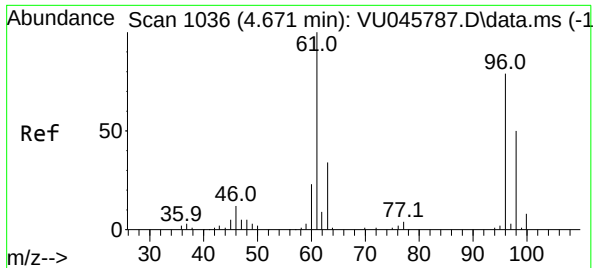
Tgt Ion: 43 Resp: 8935

Ion Ratio Lower Upper

43 100

72 12.1 14.1 42.3#

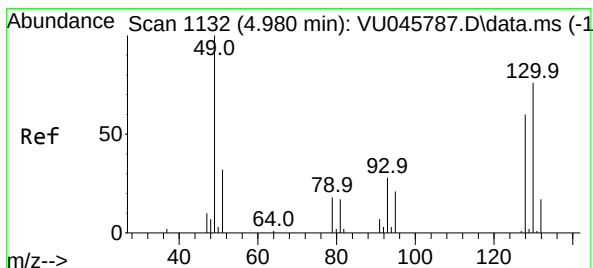
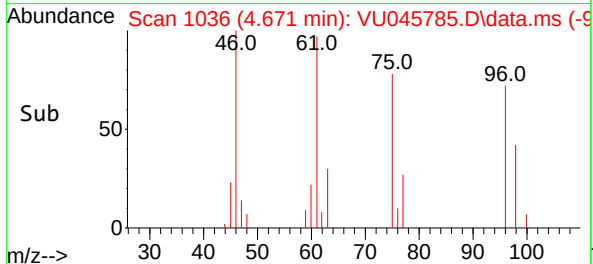
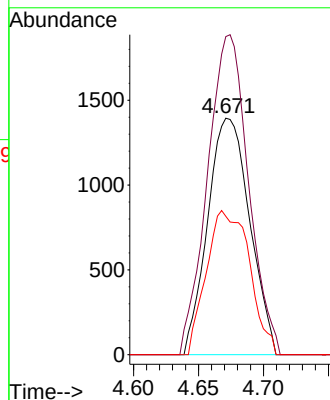
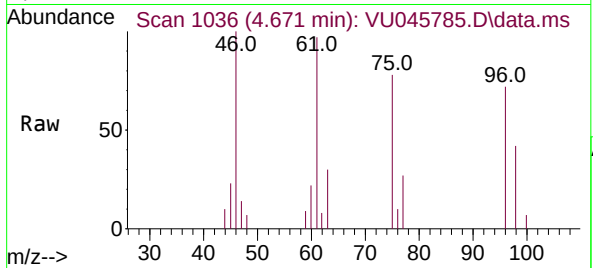




#22  
 cis-1,2-Dichloroethene  
 Concen: 0.436 ug/L  
 RT: 4.671 min Scan# 1131  
 Delta R.T. -0.000 min  
 Lab File: VU045785.D  
 Acq: 15 Nov 2021 10:35

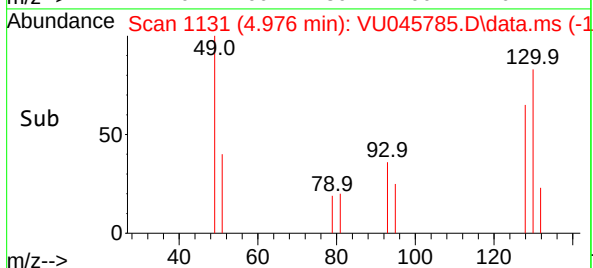
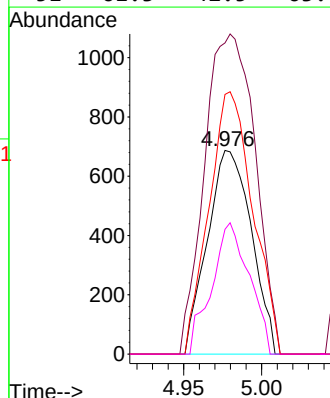
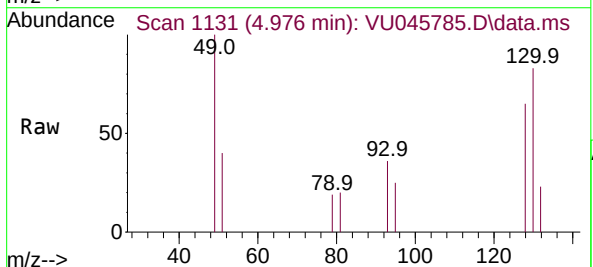
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD0.5034

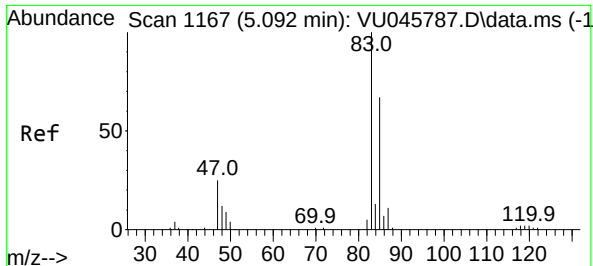
|             |       |       |       |
|-------------|-------|-------|-------|
| Tgt Ion: 96 | Resp: | 3136  |       |
| Ion         | Ratio | Lower | Upper |
| 96          | 100   |       |       |
| 61          | 134.6 | 88.5  | 164.3 |
| 98          | 58.5  | 44.4  | 82.5  |



#23  
 Bromochloromethane  
 Concen: 0.433 ug/L  
 RT: 4.976 min Scan# 1131  
 Delta R.T. -0.003 min  
 Lab File: VU045785.D  
 Acq: 15 Nov 2021 10:35

|     |         |       |       |
|-----|---------|-------|-------|
| Tgt | Ion:128 | Resp: | 1347  |
| Ion | Ratio   | Lower | Upper |
| 128 | 100     |       |       |
| 49  | 152.8   | 117.0 | 217.2 |
| 130 | 127.5   | 88.2  | 163.8 |
| 51  | 61.3    | 42.5  | 63.7  |





#25

Chloroform

Concen: 0.541 ug/L

RT: 5.092 min Scan# 1167

Delta R.T. -0.000 min

Lab File: VU045785.D

Acq: 15 Nov 2021 10:35

Instrument :

MSVOA\_U

ClientSampleId :

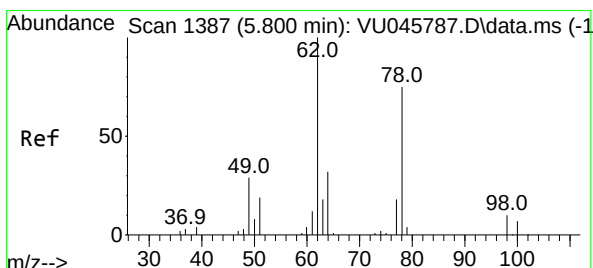
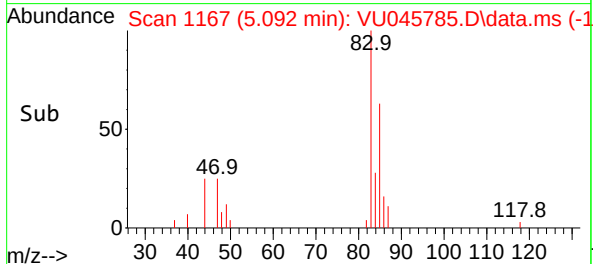
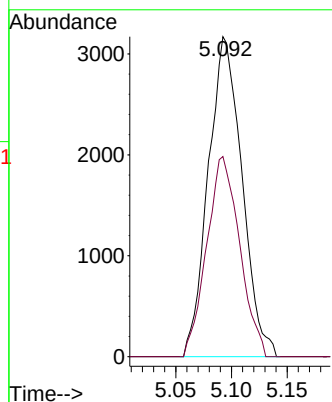
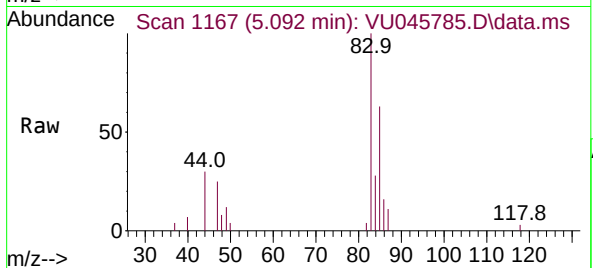
VSTD0.5034

Tgt Ion: 83 Resp: 6680

Ion Ratio Lower Upper

83 100

85 62.6 46.9 87.1



#27

1,2-Dichloroethane

Concen: 0.509 ug/L

RT: 5.800 min Scan# 1387

Delta R.T. -0.000 min

Lab File: VU045785.D

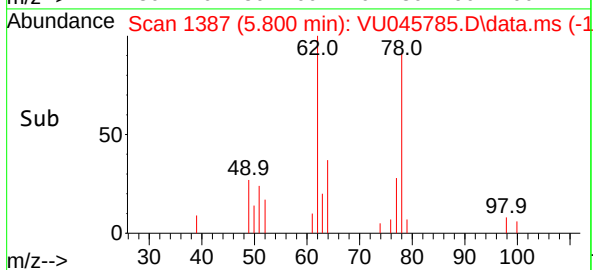
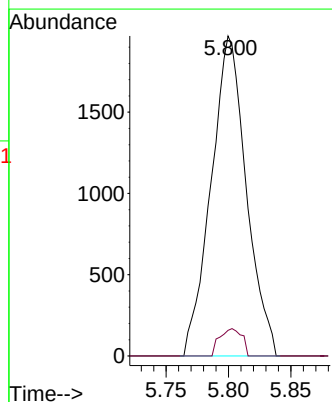
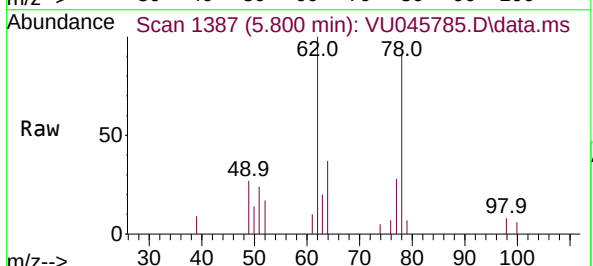
Acq: 15 Nov 2021 10:35

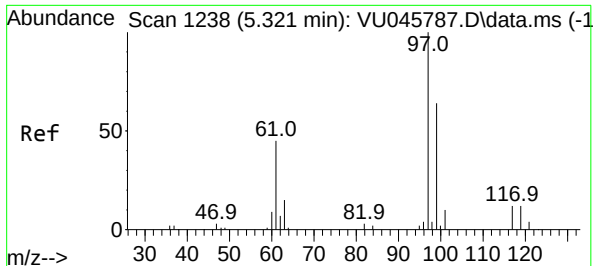
Tgt Ion: 62 Resp: 3874

Ion Ratio Lower Upper

62 100

98 8.0 7.8 11.8





#29

1,1,1-Trichloroethane

Concen: 0.478 ug/L

RT: 5.321 min Scan# 1

Delta R.T. -0.000 min

Lab File: VU045785.D

Acq: 15 Nov 2021 10:35

Instrument :

MSVOA\_U

ClientSampleId :

VSTD0.5034

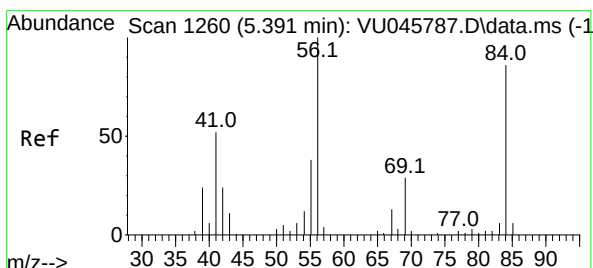
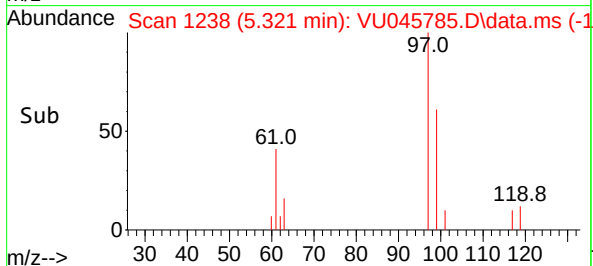
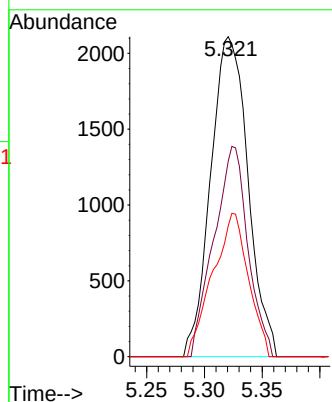
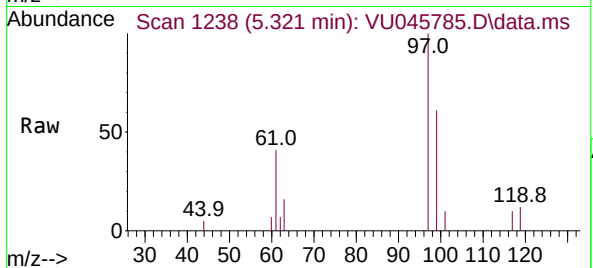
Tgt Ion: 97 Resp: 4735

Ion Ratio Lower Upper

97 100

99 60.2 51.3 76.9

61 43.0 36.1 54.1



#30

Cyclohexane

Concen: 0.401 ug/L

RT: 5.391 min Scan# 1260

Delta R.T. -0.000 min

Lab File: VU045785.D

Acq: 15 Nov 2021 10:35

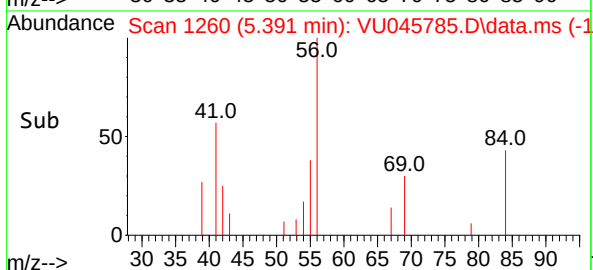
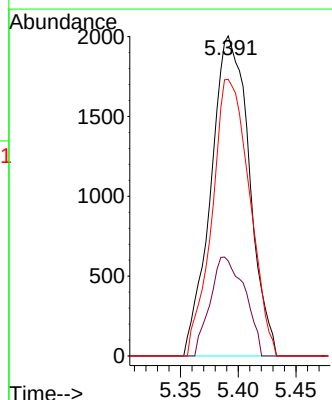
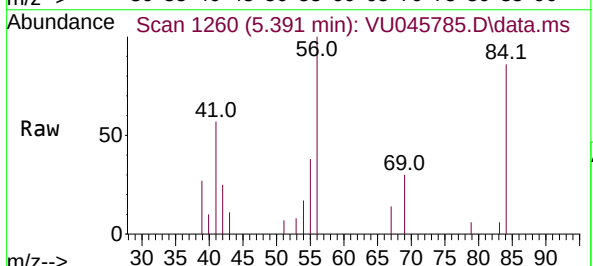
Tgt Ion: 56 Resp: 4637

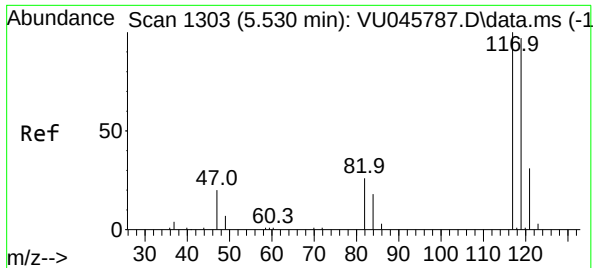
Ion Ratio Lower Upper

56 100

69 27.8 24.7 37.1

84 84.5 71.8 107.6

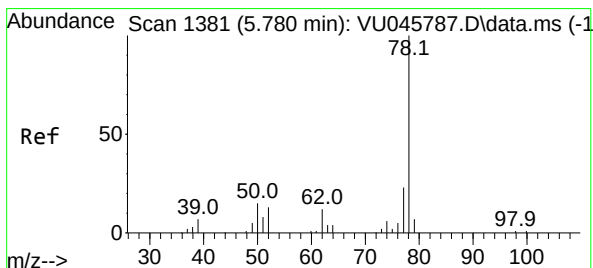
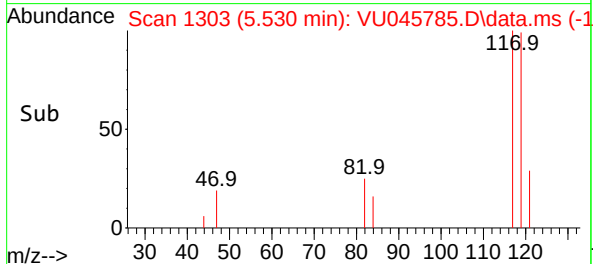
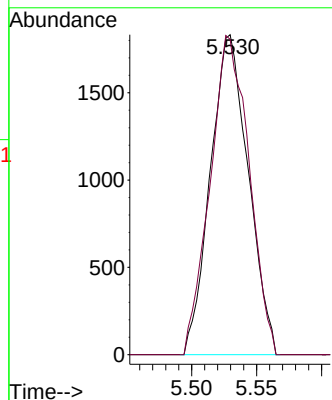
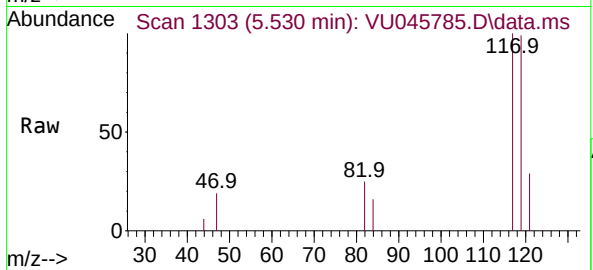




#31  
Carbon tetrachloride  
Concen: 0.454 ug/L  
RT: 5.530 min Scan# 1117  
Delta R.T. -0.000 min  
Lab File: VU045785.D  
Acq: 15 Nov 2021 10:35

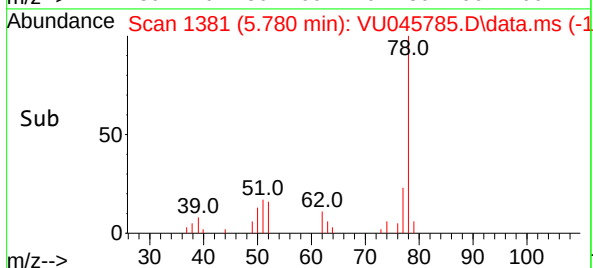
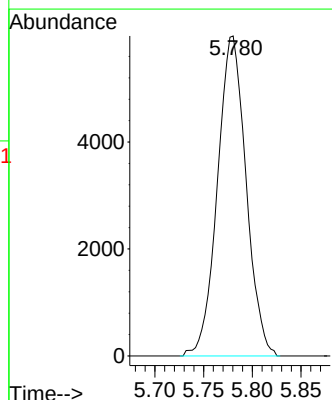
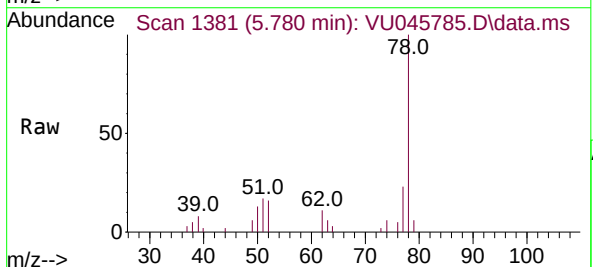
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD0.5034

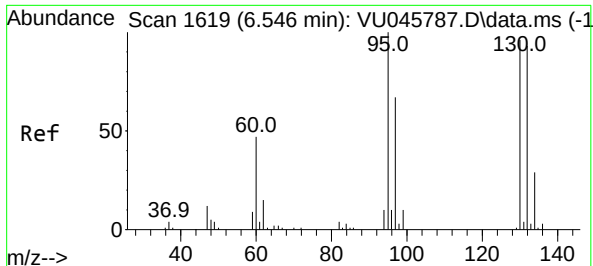
Tgt Ion:117 Resp: 3719  
Ion Ratio Lower Upper  
117 100  
119 102.3 77.5 116.3



#33  
Benzene  
Concen: 0.435 ug/L  
RT: 5.780 min Scan# 1381  
Delta R.T. -0.000 min  
Lab File: VU045785.D  
Acq: 15 Nov 2021 10:35

Tgt Ion: 78 Resp: 12223



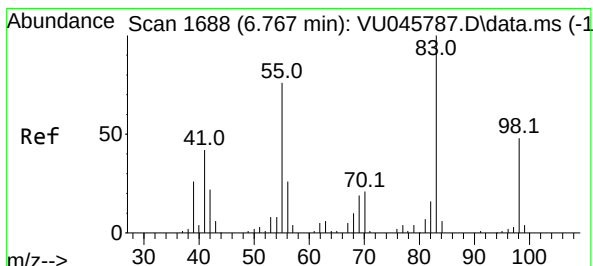
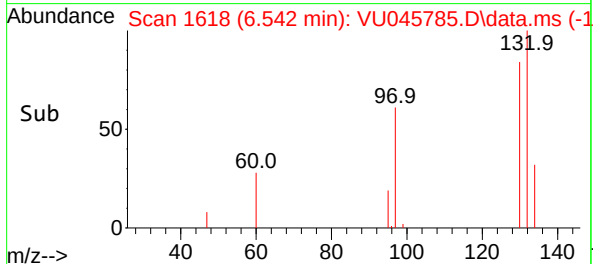
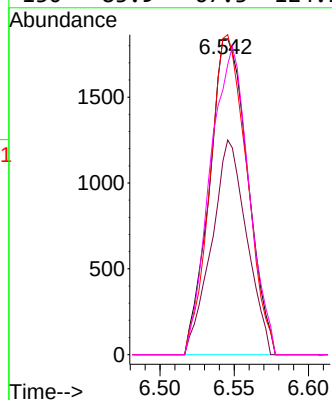
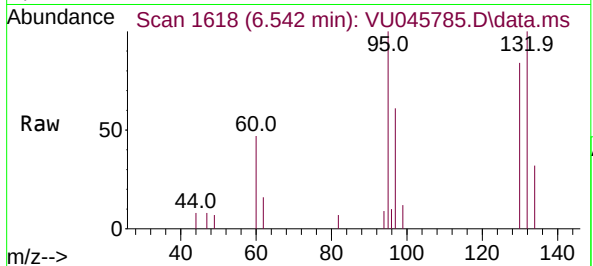


#34  
Trichloroethene  
Concen: 0.449 ug/L  
RT: 6.542 min Scan# 1618  
Delta R.T. -0.003 min  
Lab File: VU045785.D  
Acq: 15 Nov 2021 10:35

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD0.5034

Tgt Ion: 95 Resp: 3297

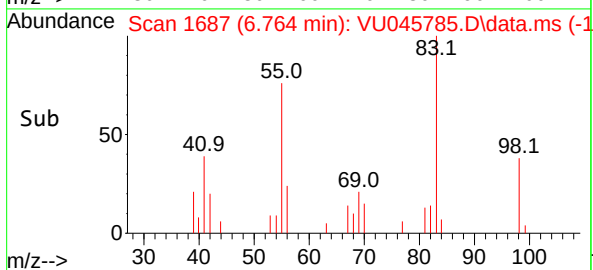
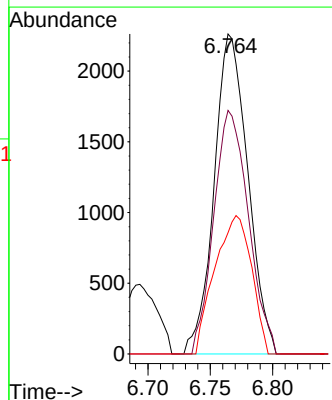
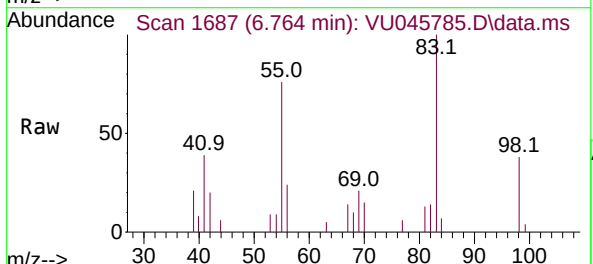
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 61.3  | 46.5  | 86.5  |
| 132 | 100.1 | 65.1  | 120.9 |
| 130 | 83.9  | 67.3  | 124.9 |



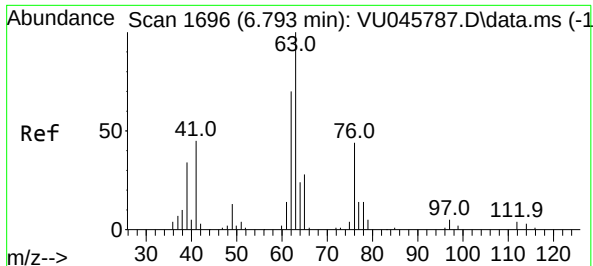
#35  
Methylcyclohexane  
Concen: 0.344 ug/L  
RT: 6.764 min Scan# 1687  
Delta R.T. -0.003 min  
Lab File: VU045785.D  
Acq: 15 Nov 2021 10:35

Tgt Ion: 83 Resp: 4264

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 55  | 78.3  | 61.9  | 92.9  |
| 98  | 47.1  | 39.0  | 58.6  |







#37

1,2-Dichloropropane

Concen: 0.428 ug/L

RT: 6.793 min Scan# 1

Delta R.T. -0.000 min

Lab File: VU045785.D

Acq: 15 Nov 2021 10:35

Instrument :

MSVOA\_U

ClientSampleId :

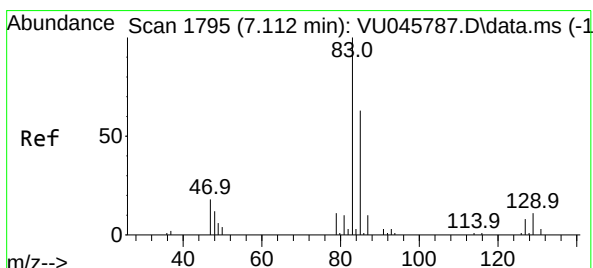
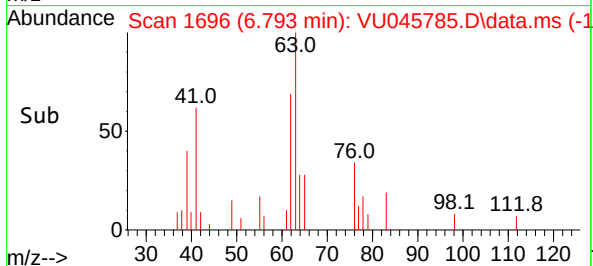
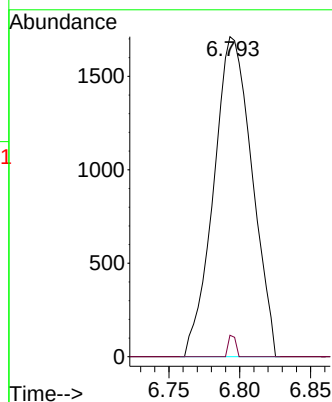
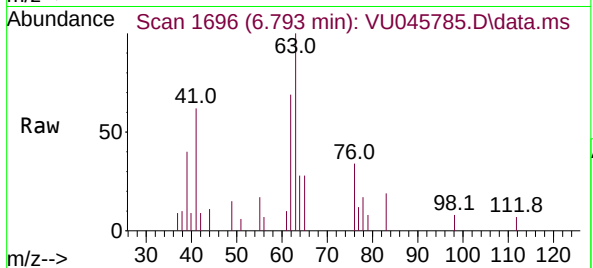
VSTD0.5034

Tgt Ion: 63 Resp: 3230

Ion Ratio Lower Upper

63 100

112 1.3 3.2 4.8#



#38

Bromodichloromethane

Concen: 0.455 ug/L

RT: 7.111 min Scan# 1795

Delta R.T. -0.000 min

Lab File: VU045785.D

Acq: 15 Nov 2021 10:35

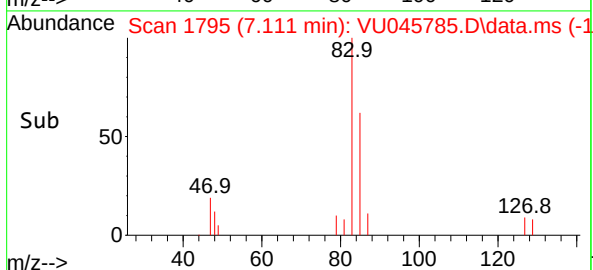
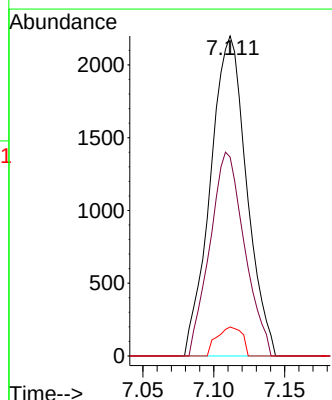
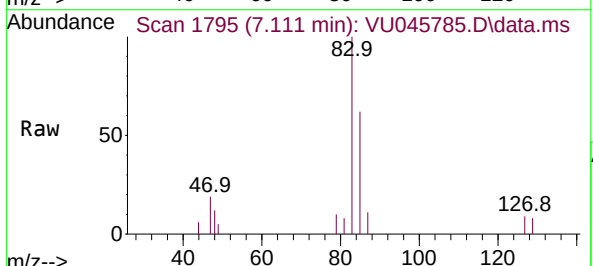
Tgt Ion: 83 Resp: 3914

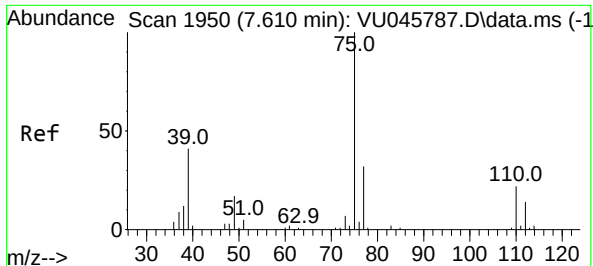
Ion Ratio Lower Upper

83 100

85 62.2 44.0 81.8

127 9.0 6.3 9.5





#39

cis-1,3-Dichloropropene

Concen: 0.384 ug/L

RT: 7.613 min Scan# 1950

Delta R.T. 0.003 min

Lab File: VU045785.D

Acq: 15 Nov 2021 10:35

Instrument :

MSVOA\_U

ClientSampleId :

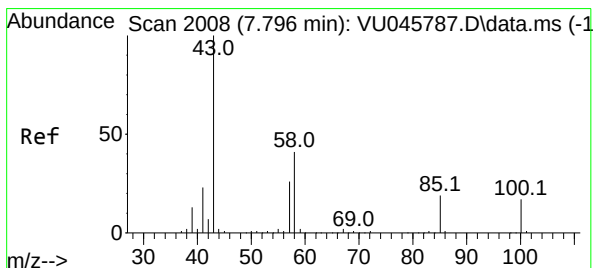
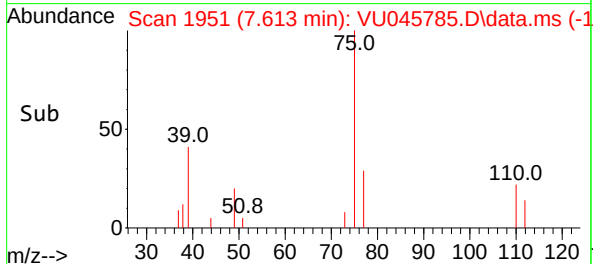
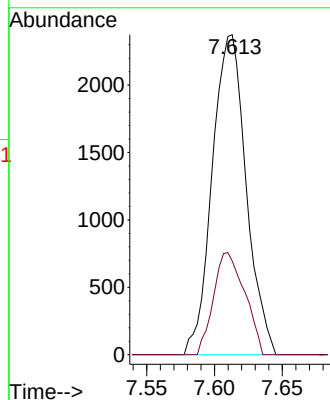
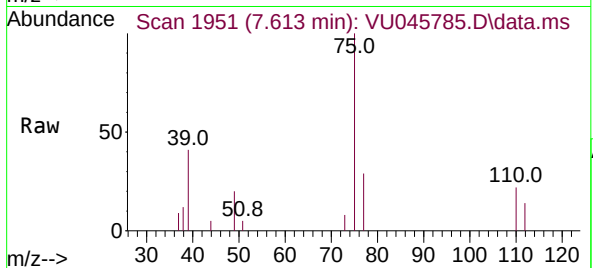
VSTD0.5034

Tgt Ion: 75 Resp: 4131

Ion Ratio Lower Upper

75 100

77 29.3 22.5 41.9



#40

4-Methyl-2-pentanone

Concen: 3.929 ug/L

RT: 7.796 min Scan# 2008

Delta R.T. -0.000 min

Lab File: VU045785.D

Acq: 15 Nov 2021 10:35

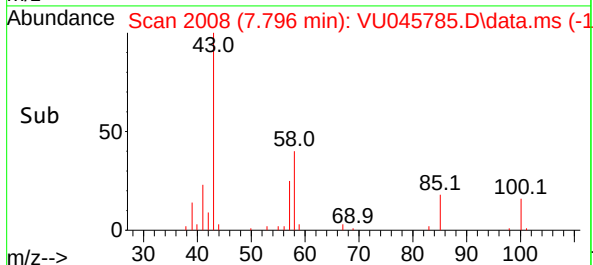
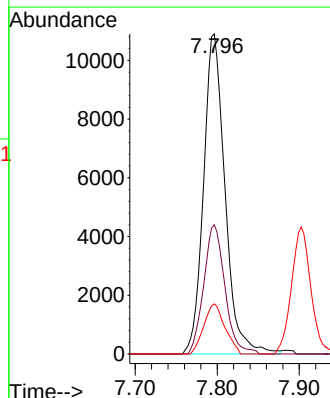
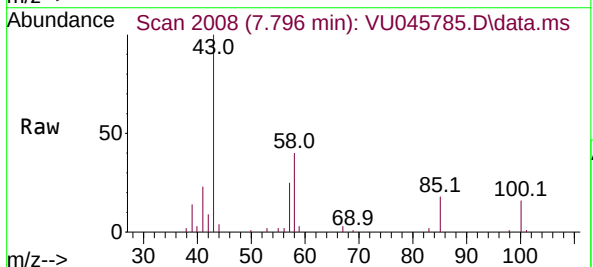
Tgt Ion: 43 Resp: 19865

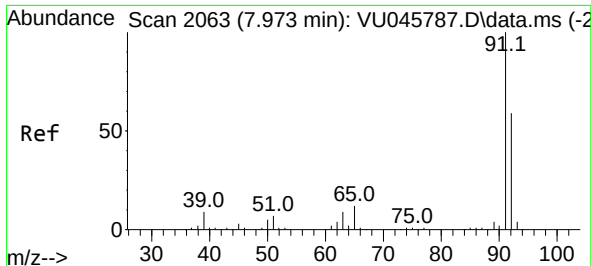
Ion Ratio Lower Upper

43 100

58 39.7 33.1 49.7

100 15.3 13.2 19.8





#42

Toluene

Concen: 0.381 ug/L

RT: 7.970 min Scan# 2063

Delta R.T. -0.003 min

Lab File: VU045785.D

Acq: 15 Nov 2021 10:35

Instrument :

MSVOA\_U

ClientSampleId :

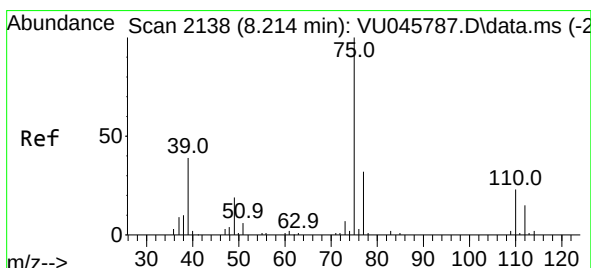
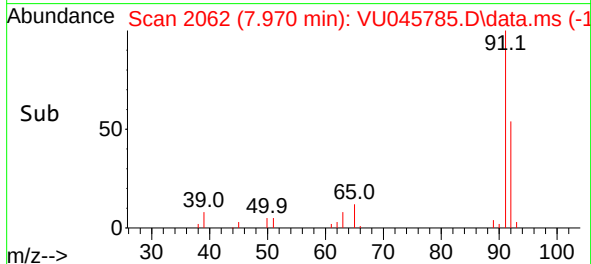
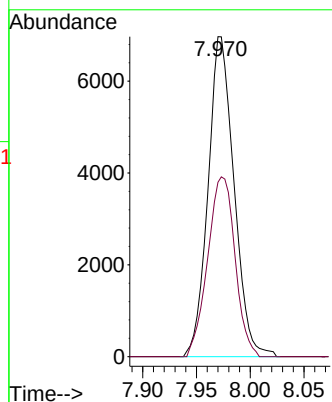
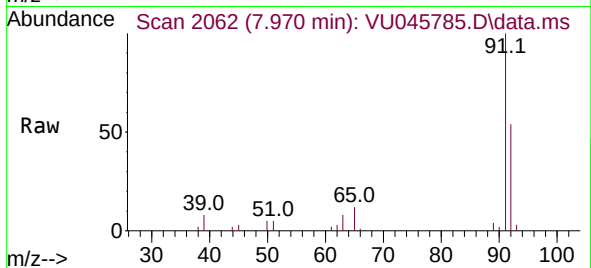
VSTD0.5034

Tgt Ion: 91 Resp: 11713

Ion Ratio Lower Upper

91 100

92 54.5 41.3 76.7



#44

trans-1,3-Dichloropropene

Concen: 0.373 ug/L

RT: 8.214 min Scan# 2138

Delta R.T. -0.000 min

Lab File: VU045785.D

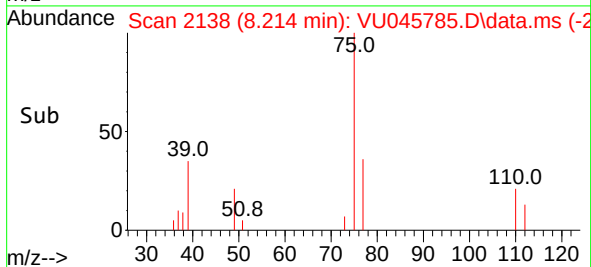
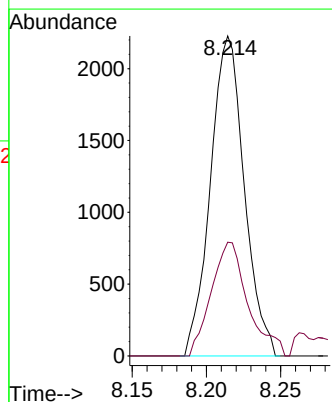
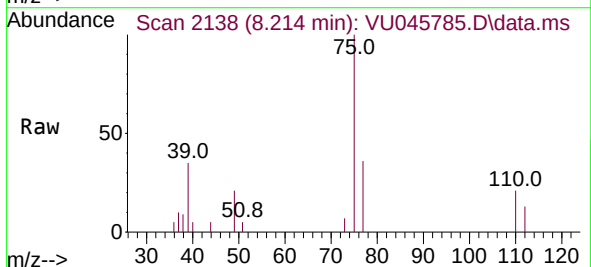
Acq: 15 Nov 2021 10:35

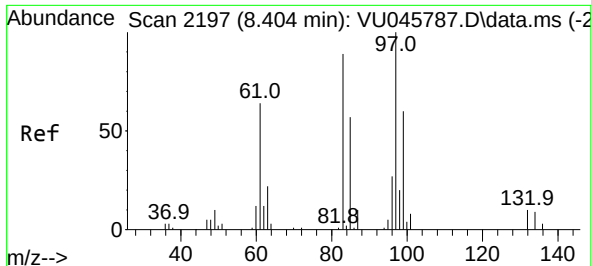
Tgt Ion: 75 Resp: 3532

Ion Ratio Lower Upper

75 100

77 35.5 22.7 42.3

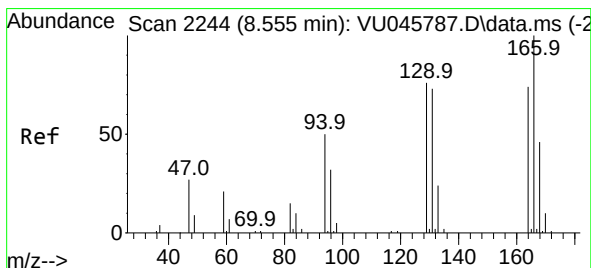
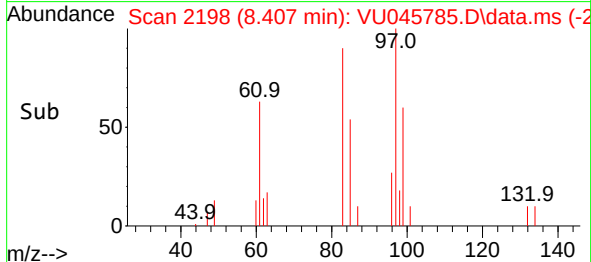
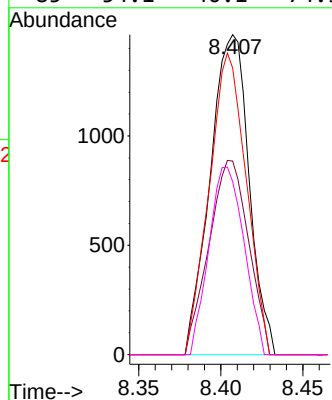
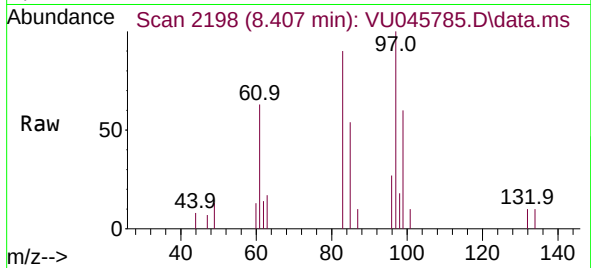




#45  
1,1,2-Trichloroethane  
Concen: 0.442 ug/L  
RT: 8.407 min Scan# 2197  
Delta R.T. 0.003 min  
Lab File: VU045785.D  
Acq: 15 Nov 2021 10:35

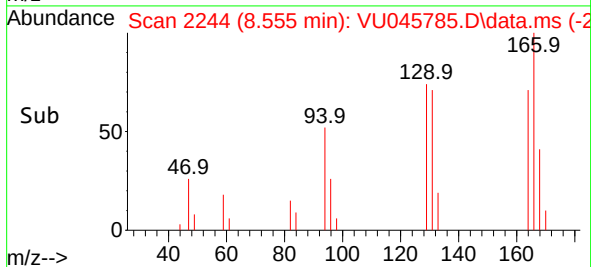
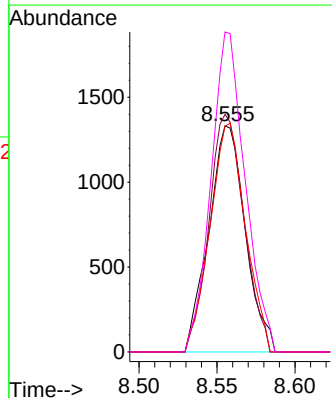
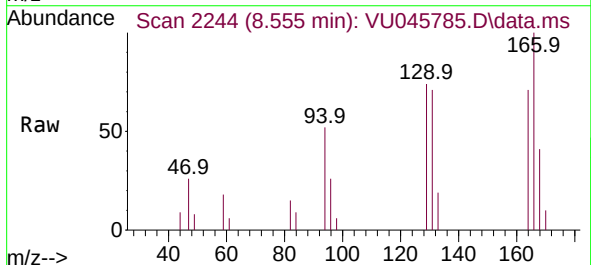
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD0.5034

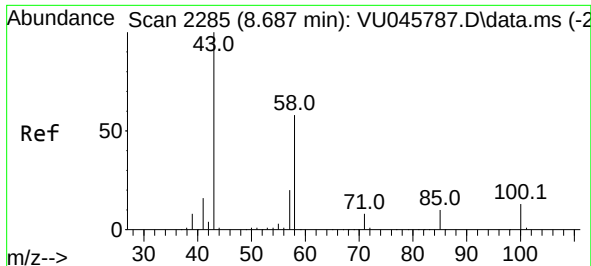
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 97 | Resp: | 2409        |
| Ion         | Ratio | Lower Upper |
| 97          | 100   |             |
| 99          | 60.5  | 42.3 78.5   |
| 83          | 89.5  | 62.0 115.2  |
| 85          | 54.1  | 40.1 74.5   |



#47  
Tetrachloroethene  
Concen: 0.418 ug/L  
RT: 8.555 min Scan# 2244  
Delta R.T. -0.000 min  
Lab File: VU045785.D  
Acq: 15 Nov 2021 10:35

|              |       |             |
|--------------|-------|-------------|
| Tgt Ion: 164 | Resp: | 2173        |
| Ion          | Ratio | Lower Upper |
| 164          | 100   |             |
| 129          | 105.1 | 71.8 133.4  |
| 131          | 99.8  | 68.5 127.3  |
| 166          | 141.5 | 94.1 174.8  |

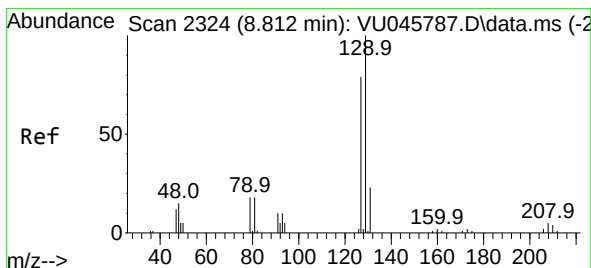
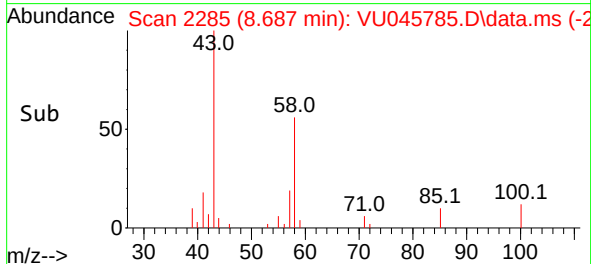
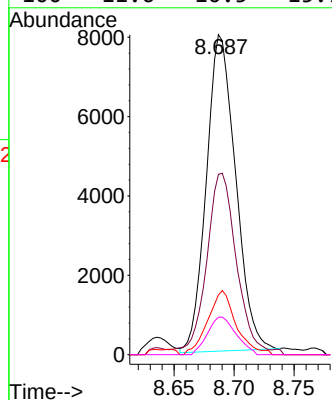
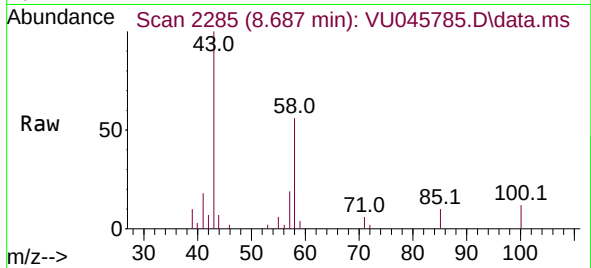




#48  
2-Hexanone  
Concen: 3.649 ug/L  
RT: 8.687 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VU045785.D  
Acq: 15 Nov 2021 10:35

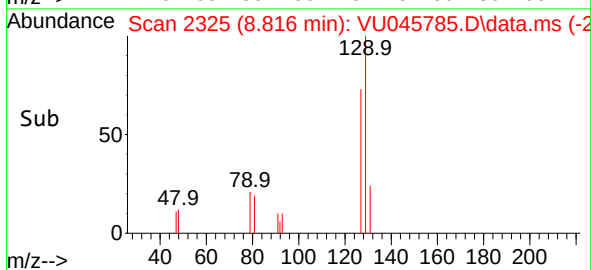
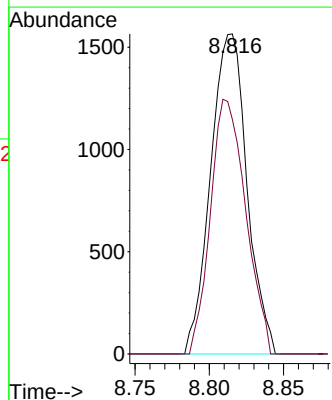
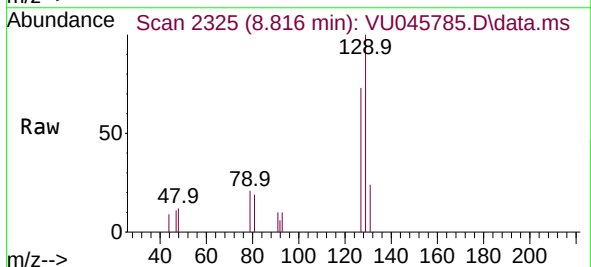
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD0.5034

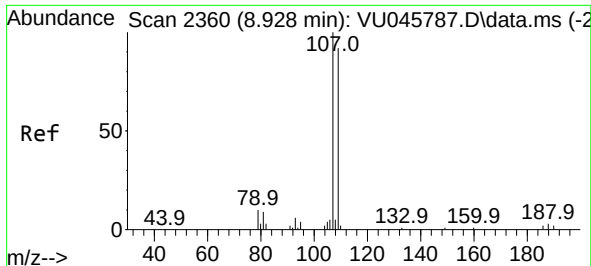
|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 13559 |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 58 59.1     | 46.7 70.1   |
| 57 19.6     | 16.3 24.5   |
| 100 11.6    | 10.5 15.7   |



#49  
Dibromochloromethane  
Concen: 0.484 ug/L  
RT: 8.816 min Scan# 2325  
Delta R.T. 0.003 min  
Lab File: VU045785.D  
Acq: 15 Nov 2021 10:35

|             |       |       |       |
|-------------|-------|-------|-------|
| Tgt Ion:129 | Resp: | 2672  |       |
| Ion         | Ratio | Lower | Upper |
| 129         | 100   |       |       |
| 127         | 73.3  | 55.4  | 102.8 |





#50

1,2-Dibromoethane

Concen: 0.433 ug/L

RT: 8.931 min Scan# 21

Delta R.T. 0.003 min

Lab File: VU045785.D

Acq: 15 Nov 2021 10:35

Instrument :

MSVOA\_U

ClientSampleId :

VSTD0.5034

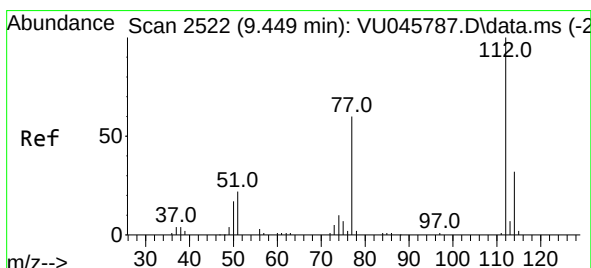
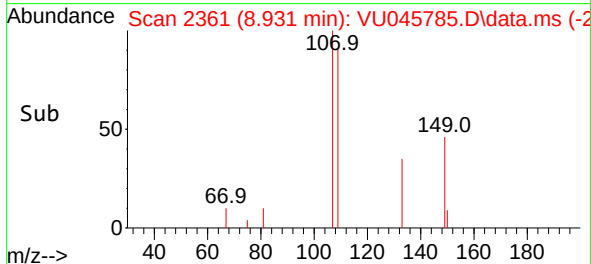
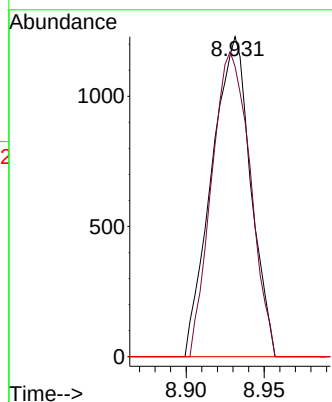
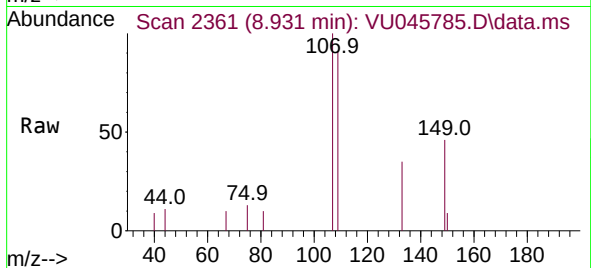
Tgt Ion:107 Resp: 2139

Ion Ratio Lower Upper

107 100

109 90.6 64.0 119.0

188 0.0 2.4 3.6#



#51

Chlorobenzene

Concen: 0.427 ug/L

RT: 9.449 min Scan# 2522

Delta R.T. -0.000 min

Lab File: VU045785.D

Acq: 15 Nov 2021 10:35

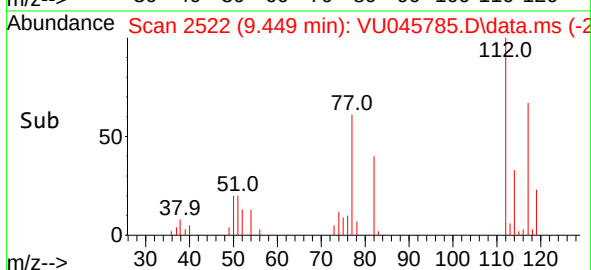
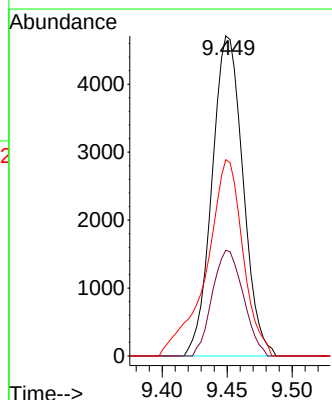
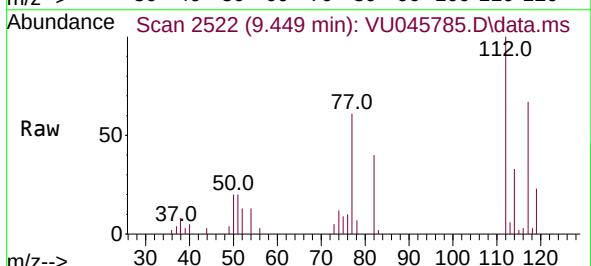
Tgt Ion:112 Resp: 7810

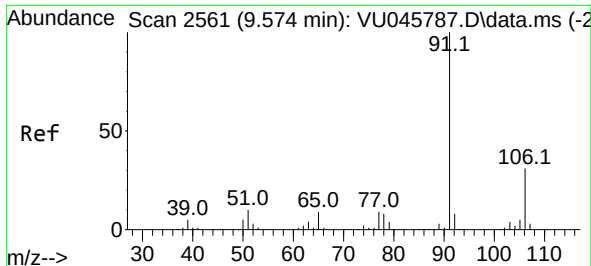
Ion Ratio Lower Upper

112 100

114 33.1 22.1 41.1

77 61.4 48.3 72.5

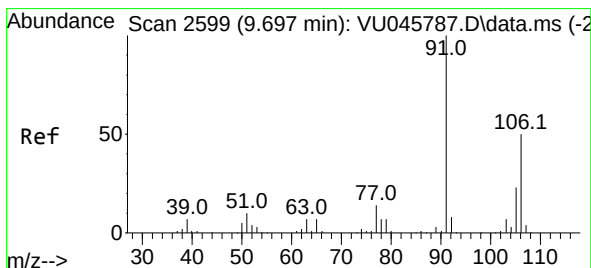
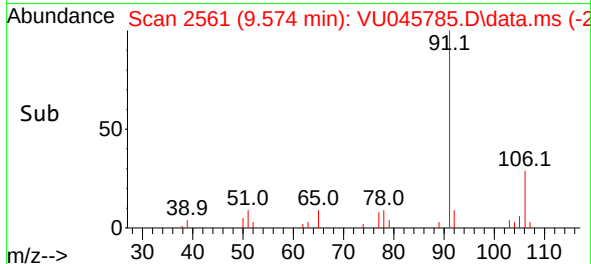
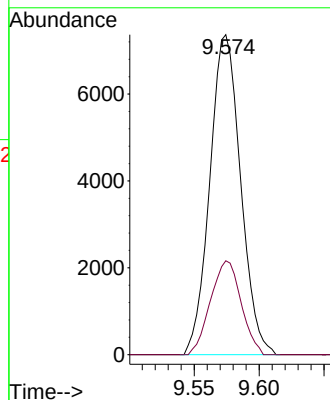
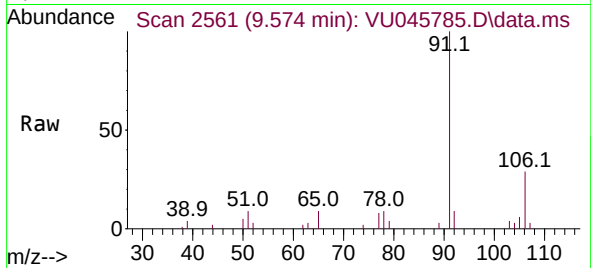




#52  
Ethylbenzene  
Concen: 0.382 ug/L  
RT: 9.574 min Scan# 2561  
Delta R.T. -0.000 min  
Lab File: VU045785.D  
Acq: 15 Nov 2021 10:35

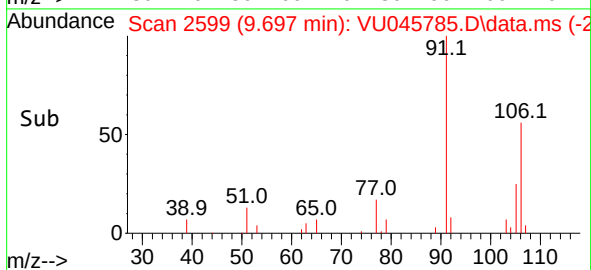
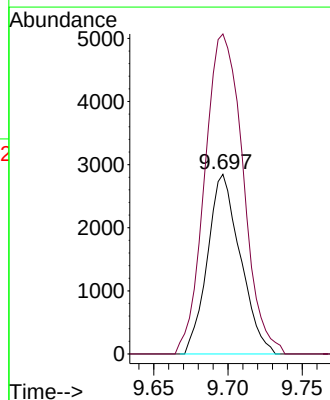
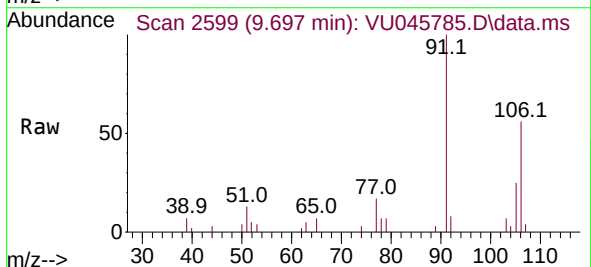
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD0.5034

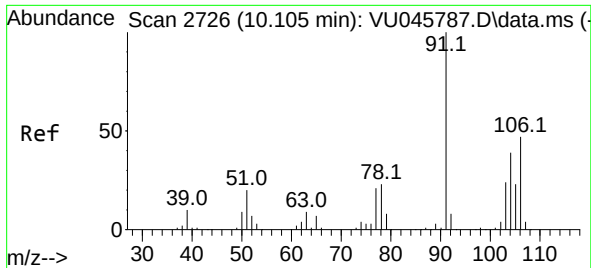
Tgt Ion: 91 Resp: 12135  
Ion Ratio Lower Upper  
91 100  
106 29.4 21.5 39.9



#53  
m,p-Xylene  
Concen: 0.354 ug/L  
RT: 9.697 min Scan# 2599  
Delta R.T. -0.000 min  
Lab File: VU045785.D  
Acq: 15 Nov 2021 10:35

Tgt Ion: 106 Resp: 4382  
Ion Ratio Lower Upper  
106 100  
91 178.1 139.4 259.0

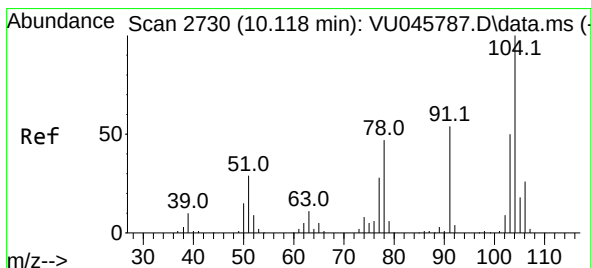
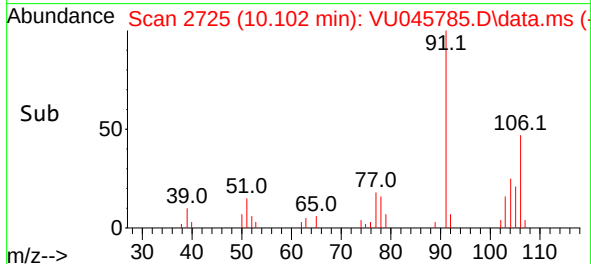
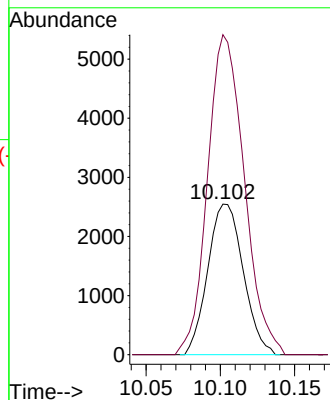
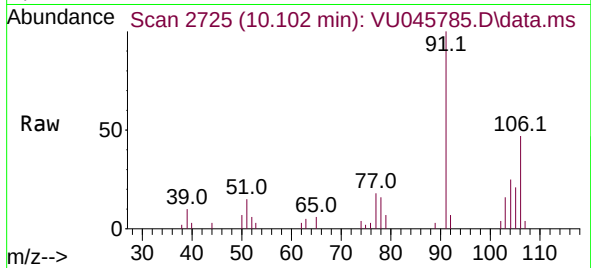




#54  
o-Xylene  
Concen: 0.351 ug/L  
RT: 10.102 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: VU045785.D  
Acq: 15 Nov 2021 10:35

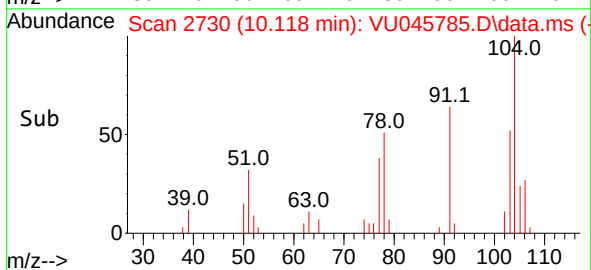
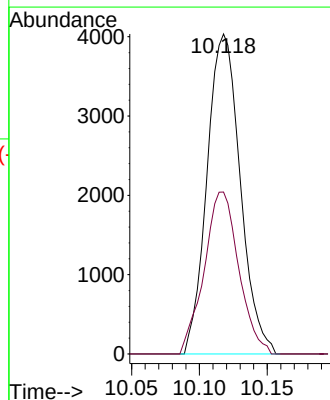
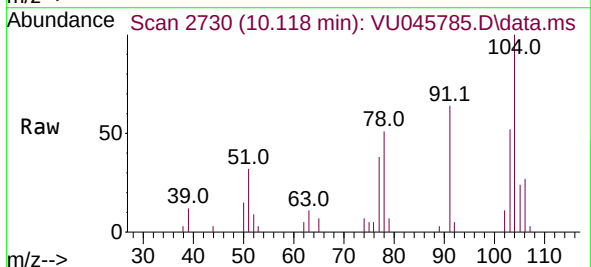
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD0.5034

Tgt Ion:106 Resp: 4232  
Ion Ratio Lower Upper  
106 100  
91 212.5 147.5 273.9

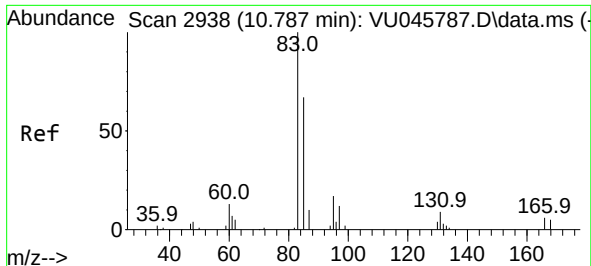


#55  
Styrene  
Concen: 0.341 ug/L  
RT: 10.118 min Scan# 2730  
Delta R.T. -0.000 min  
Lab File: VU045785.D  
Acq: 15 Nov 2021 10:35

Tgt Ion:104 Resp: 6870  
Ion Ratio Lower Upper  
104 100  
78 50.6 33.0 61.4







#57

1,1,2,2-Tetrachloroethane

Concen: 0.428 ug/L

RT: 10.787 min Scan# 2938

Delta R.T. -0.000 min

Lab File: VU045785.D

Acq: 15 Nov 2021 10:35

Instrument :

MSVOA\_U

ClientSampleId :

VSTD0.5034

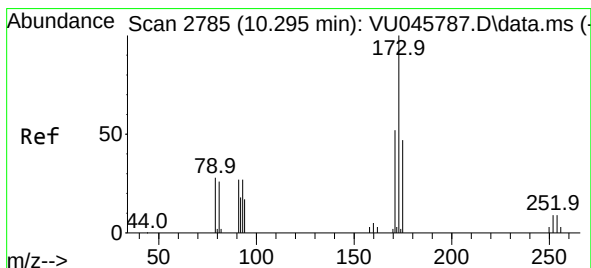
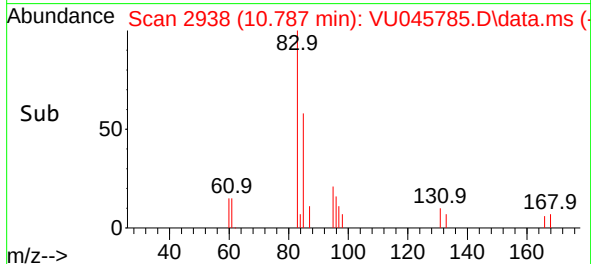
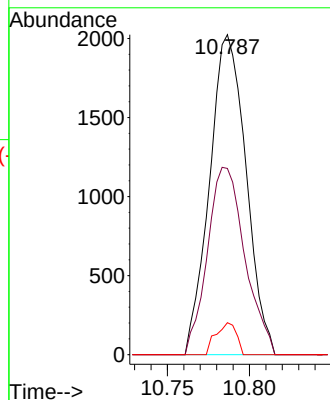
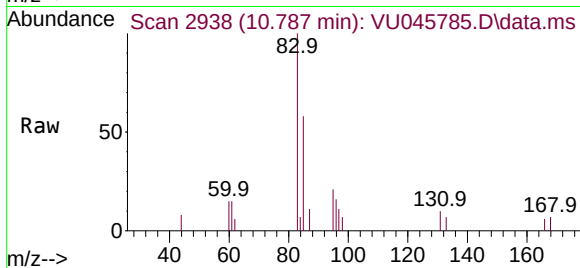
Tgt Ion: 83 Resp: 3123

Ion Ratio Lower Upper

83 100

85 58.2 47.9 89.1

131 10.0 8.1 12.1



#59

Bromoform

Concen: 0.446 ug/L

RT: 10.295 min Scan# 2785

Delta R.T. -0.000 min

Lab File: VU045785.D

Acq: 15 Nov 2021 10:35

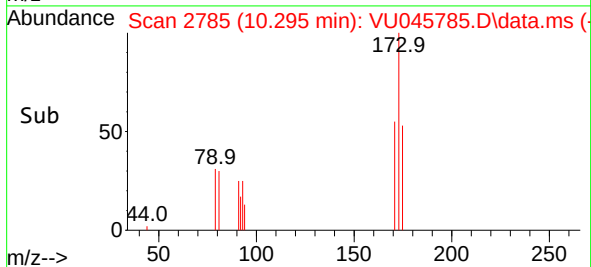
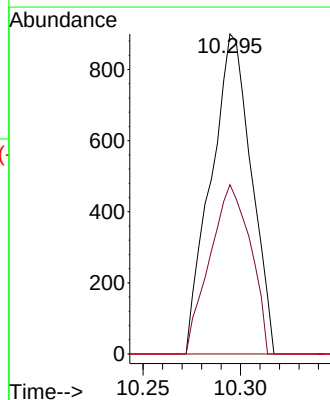
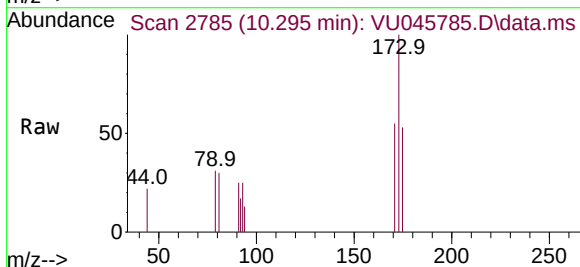
Tgt Ion:173 Resp: 1294

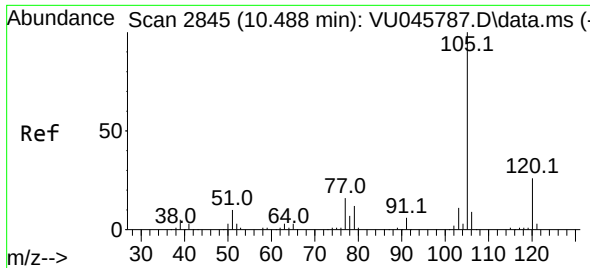
Ion Ratio Lower Upper

173 100

175 53.4 37.8 56.6

254 0.0 7.3 10.9#

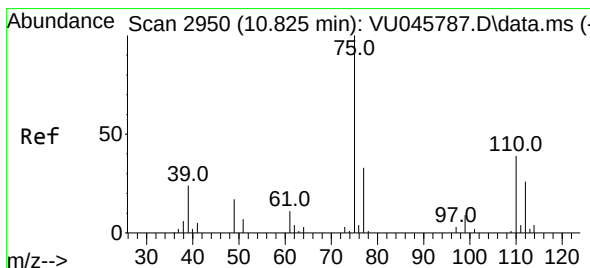
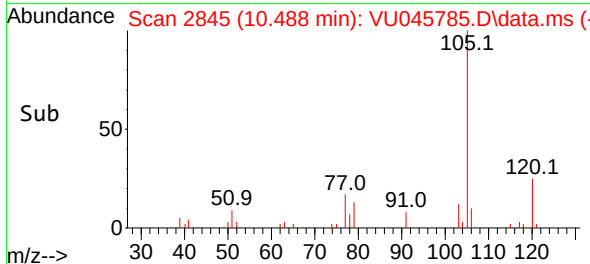
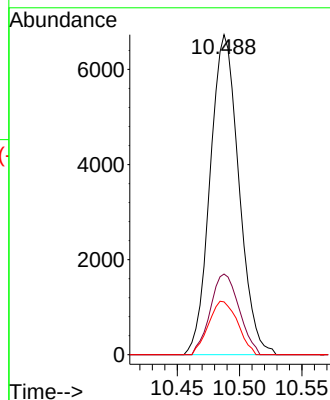
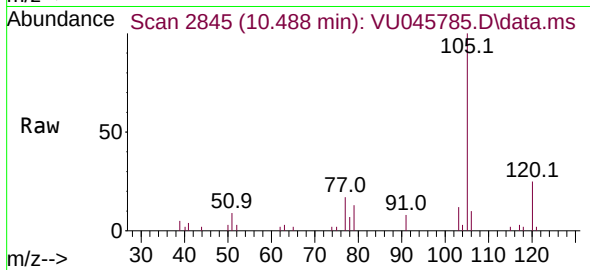




#60  
Isopropylbenzene  
Concen: 0.369 ug/L  
RT: 10.488 min Scan# 2845  
Delta R.T. -0.000 min  
Lab File: VU045785.D  
Acq: 15 Nov 2021 10:35

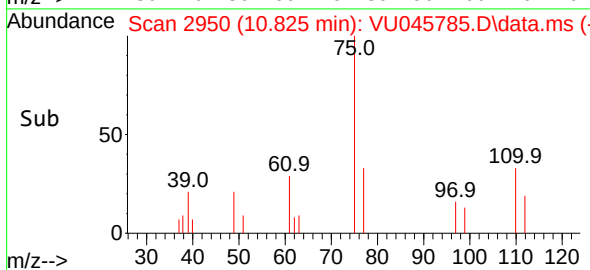
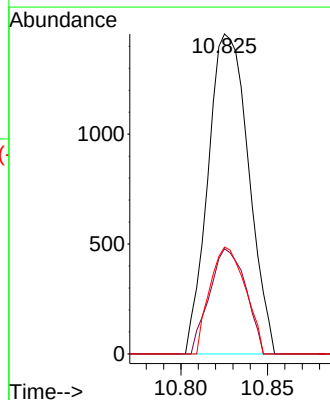
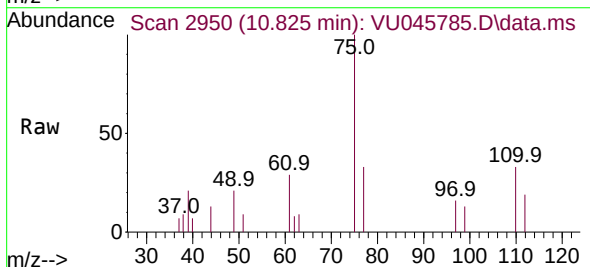
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD0.5034

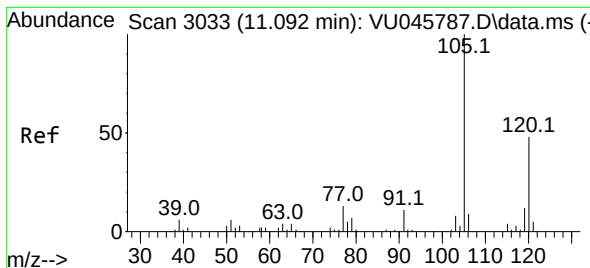
Tgt Ion:105 Resp: 10801  
Ion Ratio Lower Upper  
105 100  
120 25.3 20.7 31.1  
77 16.8 12.6 19.0



#61  
1,2,3-Trichloropropane  
Concen: 0.471 ug/L  
RT: 10.825 min Scan# 2950  
Delta R.T. -0.000 min  
Lab File: VU045785.D  
Acq: 15 Nov 2021 10:35

Tgt Ion: 75 Resp: 2367  
Ion Ratio Lower Upper  
75 100  
110 29.4 29.9 44.9#  
77 29.2 25.5 38.3





#62

1,3,5-Trimethylbenzene

Concen: 0.333 ug/L

RT: 11.092 min Scan# 3033

Delta R.T. -0.000 min

Lab File: VU045785.D

Acq: 15 Nov 2021 10:35

Instrument :

MSVOA\_U

ClientSampleId :

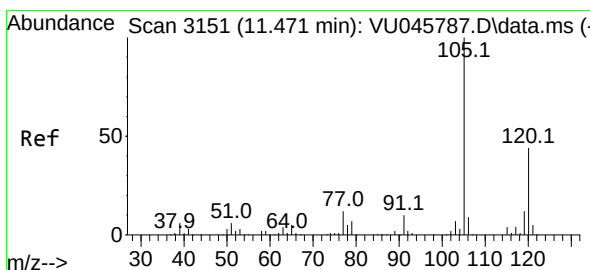
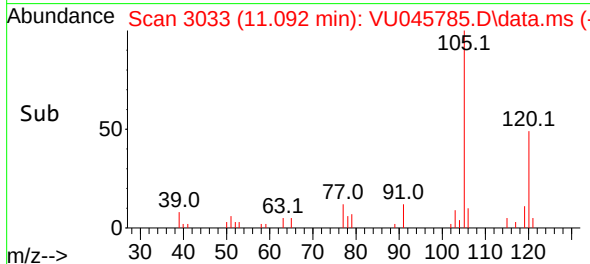
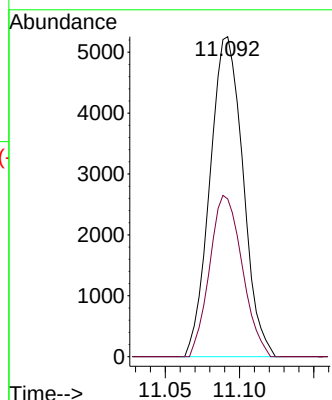
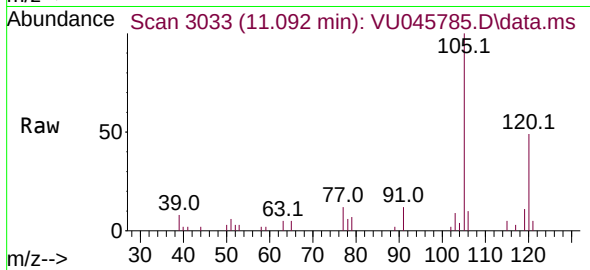
VSTD0.5034

Tgt Ion:105 Resp: 8136

Ion Ratio Lower Upper

105 100

120 49.6 38.3 57.5



#63

1,2,4-Trimethylbenzene

Concen: 0.331 ug/L

RT: 11.471 min Scan# 3151

Delta R.T. -0.000 min

Lab File: VU045785.D

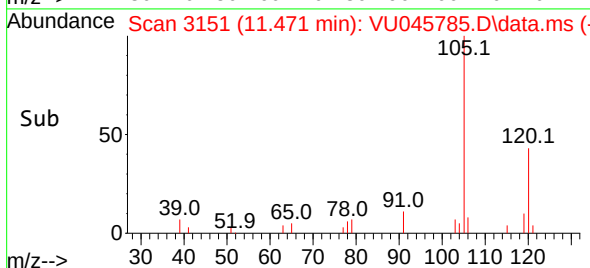
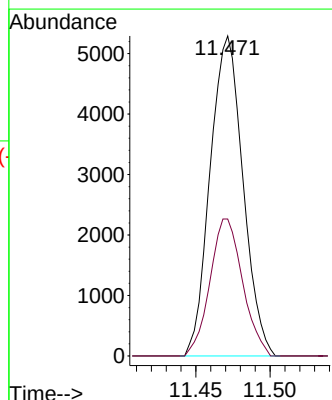
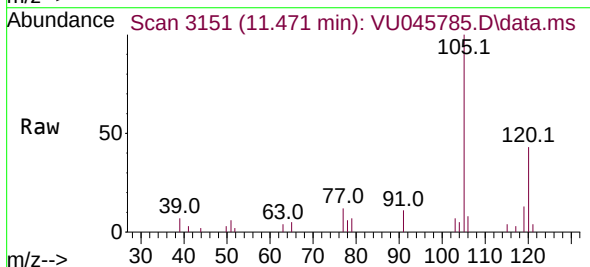
Acq: 15 Nov 2021 10:35

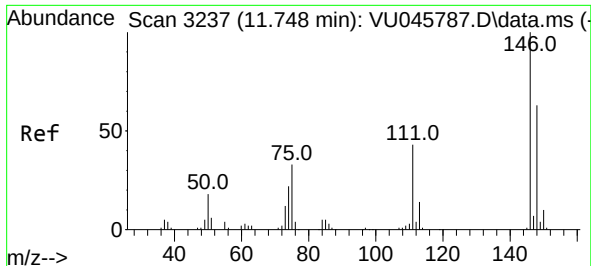
Tgt Ion:105 Resp: 8132

Ion Ratio Lower Upper

105 100

120 42.5 35.8 53.8

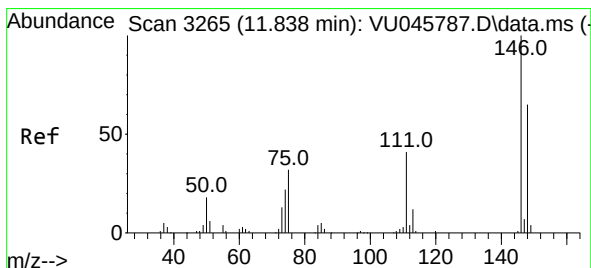
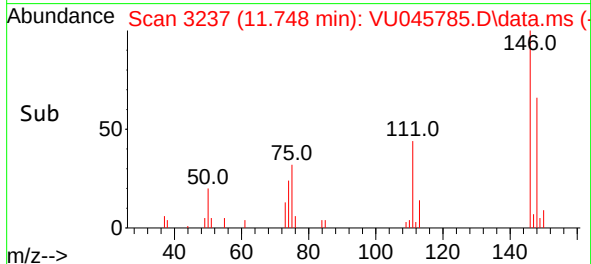
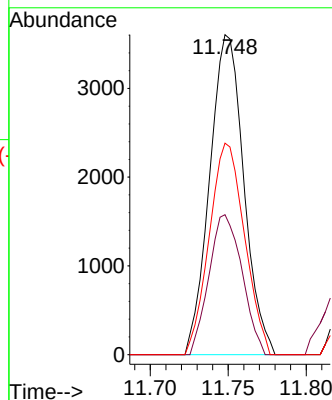
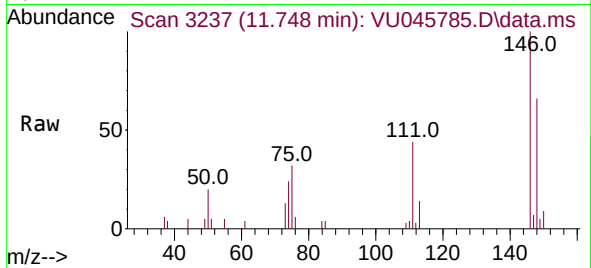




#64  
1,3-Dichlorobenzene  
Concen: 0.411 ug/L  
RT: 11.748 min Scan# 31  
Delta R.T. -0.000 min  
Lab File: VU045785.D  
Acq: 15 Nov 2021 10:35

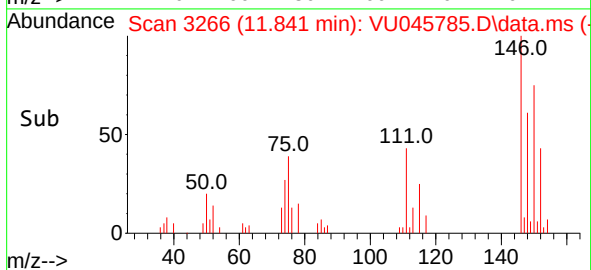
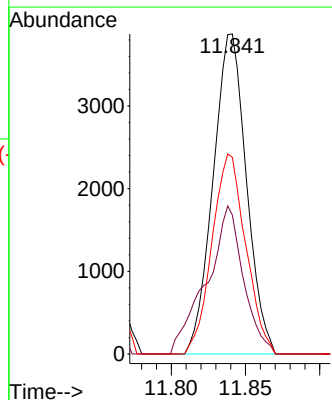
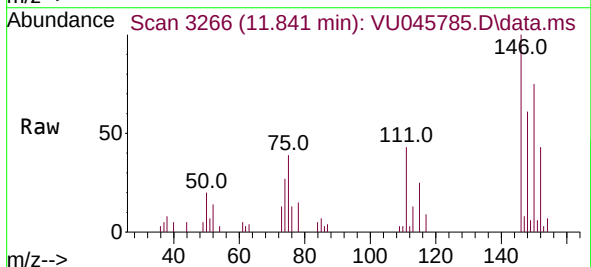
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD0.5034

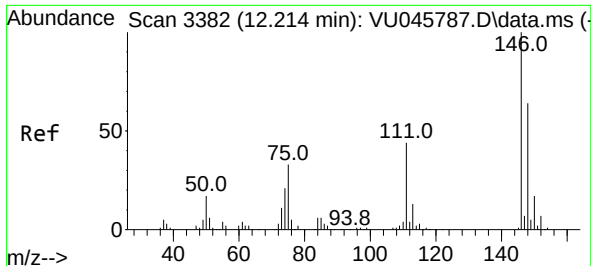
Tgt Ion:146 Resp: 5494  
Ion Ratio Lower Upper  
146 100  
111 43.7 29.9 55.5  
148 66.1 44.3 82.3



#65  
1,4-Dichlorobenzene  
Concen: 0.449 ug/L  
RT: 11.841 min Scan# 3266  
Delta R.T. 0.003 min  
Lab File: VU045785.D  
Acq: 15 Nov 2021 10:35

Tgt Ion:146 Resp: 6043  
Ion Ratio Lower Upper  
146 100  
111 43.4 28.7 53.3  
148 61.5 45.8 85.0





#67

1,2-Dichlorobenzene

Concen: 0.418 ug/L

RT: 12.214 min Scan# 31

Delta R.T. -0.000 min

Lab File: VU045785.D

Acq: 15 Nov 2021 10:35

Instrument :

MSVOA\_U

ClientSampleId :

VSTD0.5034

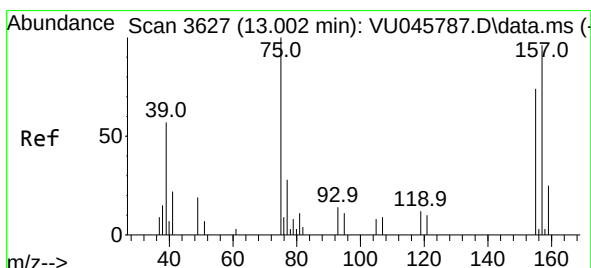
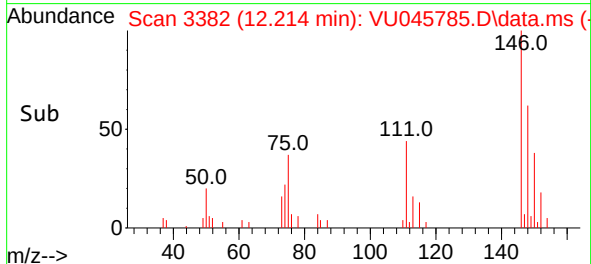
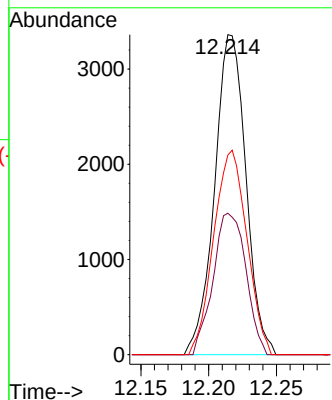
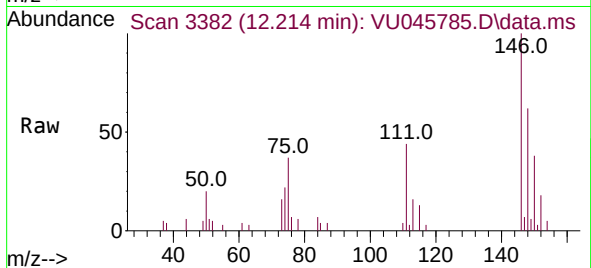
Tgt Ion:146 Resp: 5404

Ion Ratio Lower Upper

146 100

111 44.2 35.4 53.0

148 62.4 51.1 76.7



#68

1,2-Dibromo-3-chloropropane

Concen: 0.396 ug/L

RT: 12.999 min Scan# 3626

Delta R.T. -0.003 min

Lab File: VU045785.D

Acq: 15 Nov 2021 10:35

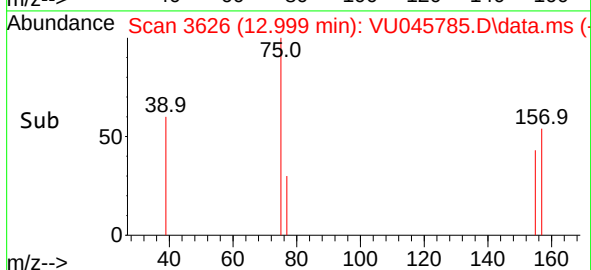
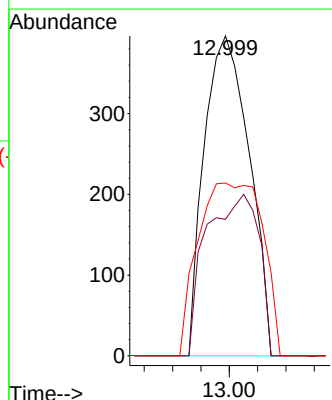
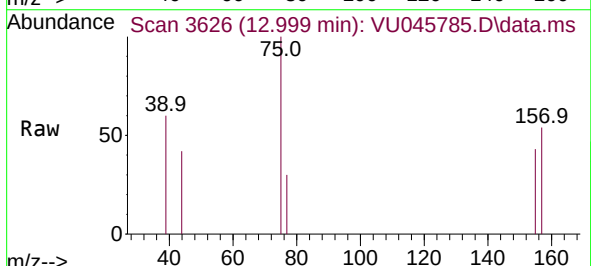
Tgt Ion: 75 Resp: 437

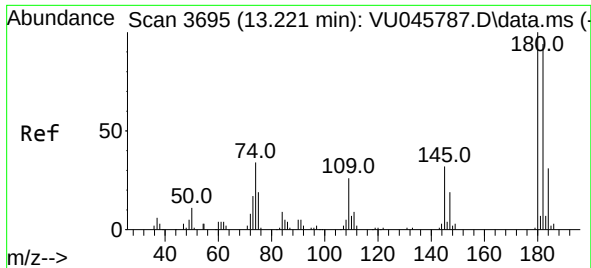
Ion Ratio Lower Upper

75 100

155 42.7 59.2 88.8#

157 54.0 76.5 114.7#

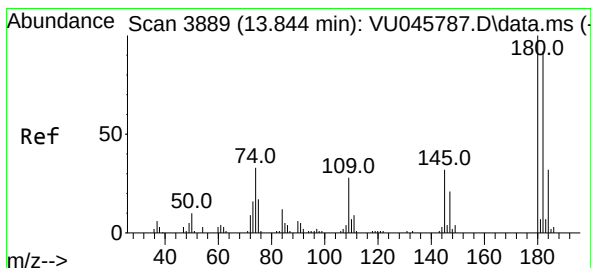
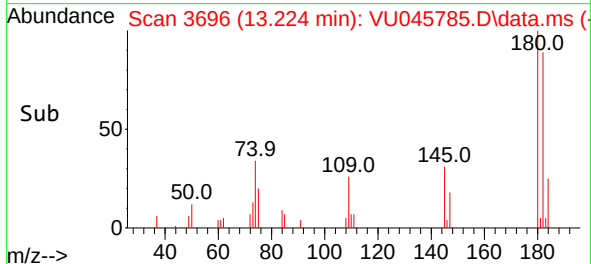
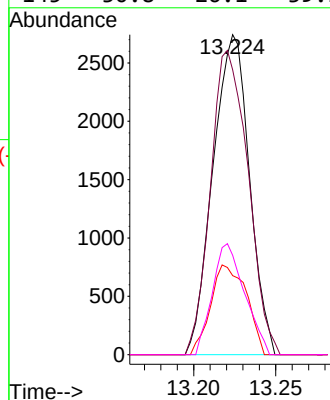
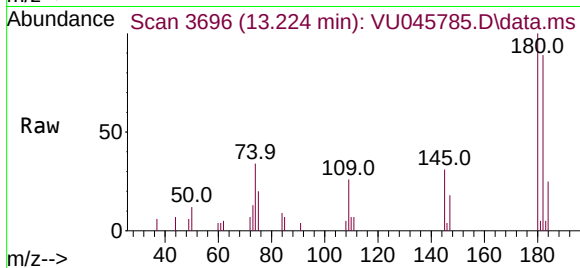




#69  
 1,3,5-Trichlorobenzene  
 Concen: 0.430 ug/L  
 RT: 13.224 min Scan# 3696  
 Delta R.T. 0.003 min  
 Lab File: VU045785.D  
 Acq: 15 Nov 2021 10:35

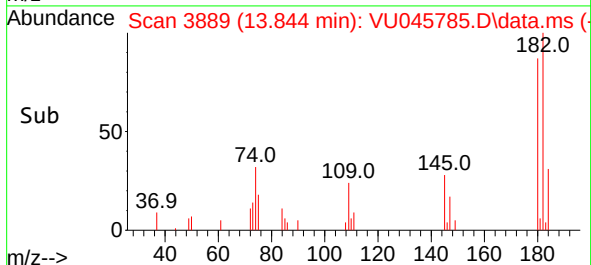
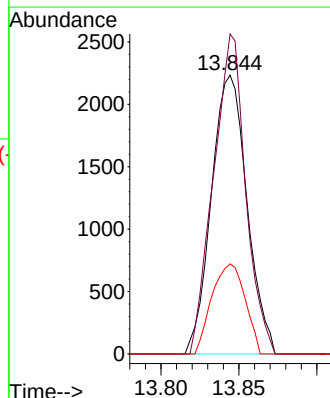
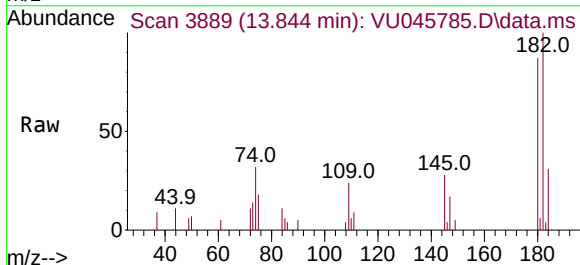
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD0.5034

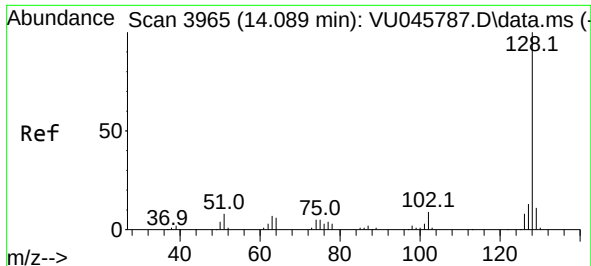
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 4227  |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 97.8  | 76.1  | 114.1 |
| 184      | 27.7  | 25.0  | 37.4  |
| 145      | 30.8  | 26.1  | 39.1  |



#70  
 1,2,4-trichlorobenzene  
 Concen: 0.409 ug/L  
 RT: 13.844 min Scan# 3889  
 Delta R.T. -0.000 min  
 Lab File: VU045785.D  
 Acq: 15 Nov 2021 10:35

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 3551  |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 103.4 | 76.4  | 114.6 |
| 145      | 30.0  | 25.6  | 38.4  |

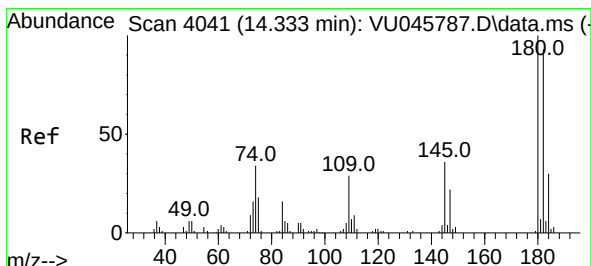
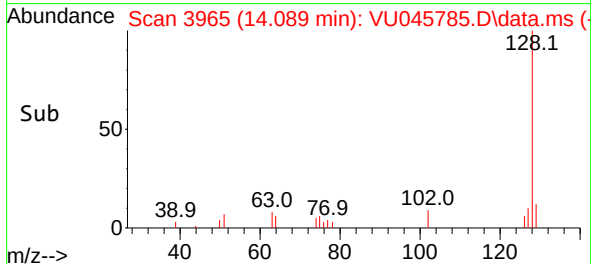
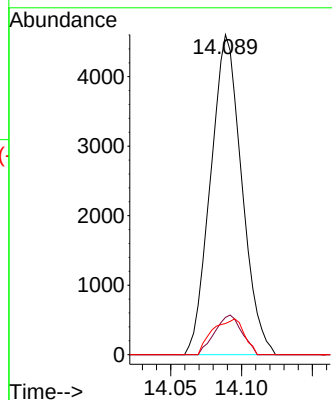
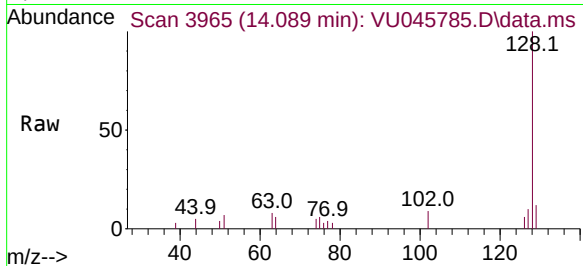




#71  
Naphthalene  
Concen: 0.381 ug/L  
RT: 14.089 min Scan# 3965  
Delta R.T. -0.000 min  
Lab File: VU045785.D  
Acq: 15 Nov 2021 10:35

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD0.5034

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:128 | Resp: | 7045        |
| Ion         | Ratio | Lower Upper |
| 128         | 100   |             |
| 129         | 10.8  | 8.4 12.6    |
| 127         | 11.3  | 10.2 15.2   |



#72  
1,2,3-Trichlorobenzene  
Concen: 0.452 ug/L  
RT: 14.333 min Scan# 4041  
Delta R.T. -0.000 min  
Lab File: VU045785.D  
Acq: 15 Nov 2021 10:35

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:180 | Resp: | 3749        |
| Ion         | Ratio | Lower Upper |
| 180         | 100   |             |
| 182         | 90.4  | 76.2 114.4  |
| 145         | 31.5  | 28.4 42.6   |

