

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU112921\  
 Data File : VU046021.D  
 Acq On : 29 Nov 2021 14:19  
 Operator : SY/MD  
 Sample : VSTD20035  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD200035

Quant Time: Nov 30 01:55:30 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM112921WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Nov 30 01:52:37 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Difluorobenzene        | 6.253  | 114  | 199491   | 50.000  | ug/L  | 0.00     |
| 28) Chlorobenzene-d5          | 9.420  | 117  | 198314   | 50.000  | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.815 | 152  | 112516   | 50.000  | ug/L  | 0.00     |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 4) Vinyl Chloride-d3          | 1.600  | 65   | 326535   | 201.592 | ug/L  | 0.00     |
| 7) Chloroethane-d5            | 1.919  | 69   | 243317   | 187.614 | ug/L  | 0.00     |
| 11) 1,1-Dichloroethene-d2     | 2.571  | 63   | 575106   | 199.835 | ug/L  | 0.00     |
| 21) 2-Butanone-d5             | 4.645  | 46   | 524351   | 391.346 | ug/L  | 0.00     |
| 24) Chloroform-d              | 5.066  | 84   | 553655   | 193.076 | ug/L  | 0.00     |
| 26) 1,2-Dichloroethane-d4     | 5.706  | 65   | 350420   | 184.639 | ug/L  | 0.00     |
| 32) Benzene-d6                | 5.732  | 84   | 1126348  | 186.612 | ug/L  | 0.00     |
| 36) 1,2-Dichloropropane-d6    | 6.697  | 67   | 346196   | 179.574 | ug/L  | 0.00     |
| 41) Toluene-d8                | 7.902  | 98   | 1043046  | 196.184 | ug/L  | 0.00     |
| 43) trans-1,3-Dichloroprop... | 8.182  | 79   | 185036   | 203.352 | ug/L  | 0.00     |
| 47) 2-Hexanone-d5             | 8.642  | 63   | 405992   | 403.153 | ug/L  | 0.00     |
| 56) 1,1,2,2-Tetrachloroeth... | 10.761 | 84   | 563355   | 195.435 | ug/L  | 0.00     |
| 66) 1,2-Dichlorobenzene-d4    | 12.198 | 152  | 430068   | 192.364 | ug/L  | 0.00     |
| Target Compounds              |        |      |          |         |       |          |
|                               |        |      |          |         |       | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.388  | 85   | 420129   | 228.300 | ug/L  | 99       |
| 3) Chloromethane              | 1.523  | 50   | 359079   | 171.957 | ug/L  | 99       |
| 5) Vinyl chloride             | 1.607  | 62   | 382777   | 193.340 | ug/L  | 100      |
| 6) Bromomethane               | 1.864  | 94   | 225991   | 217.114 | ug/L  | 97       |
| 8) Chloroethane               | 1.938  | 64   | 215969   | 182.073 | ug/L  | 99       |
| 9) Trichlorofluoromethane     | 2.144  | 101  | 488889   | 203.686 | ug/L  | 100      |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.584  | 101  | 279178   | 193.126 | ug/L  | 99       |
| 12) 1,1-Dichloroethene        | 2.584  | 96   | 269860   | 198.485 | ug/L  | 94       |
| 13) Acetone                   | 2.668  | 43   | 551851   | 451.867 | ug/L  | 97       |
| 14) Carbon disulfide          | 2.796  | 76   | 835616   | 211.266 | ug/L  | 100      |
| 15) Methyl Acetate            | 2.960  | 43   | 355471   | 190.079 | ug/L  | 98       |
| 16) Methylene chloride        | 3.050  | 84   | 302237   | 182.056 | ug/L  | 100      |
| 17) trans-1,2-Dichloroethene  | 3.356  | 96   | 288708   | 198.074 | ug/L  | 99       |
| 18) Methyl tert-butyl Ether   | 3.366  | 73   | 938137   | 188.589 | ug/L  | 100      |
| 19) 1,1-Dichloroethane        | 3.874  | 63   | 509553   | 179.353 | ug/L  | 100      |
| 20) cis-1,2-Dichloroethene    | 4.671  | 96   | 316360   | 192.521 | ug/L  | 99       |
| 22) 2-Butanone                | 4.726  | 43   | 638862   | 405.389 | ug/L  | 97       |
| 23) Bromochloromethane        | 4.980  | 128  | 156537   | 195.987 | ug/L  | 95       |
| 25) Chloroform                | 5.092  | 83   | 540133   | 186.450 | ug/L  | 100      |
| 27) 1,2-Dichloroethane        | 5.800  | 62   | 420164   | 180.400 | ug/L  | 99       |
| 29) Cyclohexane               | 5.394  | 56   | 480350   | 174.964 | ug/L  | 99       |
| 30) 1,1,1-Trichloroethane     | 5.324  | 97   | 483146   | 194.291 | ug/L  | 99       |
| 31) Carbon tetrachloride      | 5.529  | 117  | 418631   | 208.568 | ug/L  | 98       |
| 33) Benzene                   | 5.780  | 78   | 1184439  | 177.277 | ug/L  | 100      |
| 34) Trichloroethene           | 6.545  | 95   | 309910   | 189.932 | ug/L  | 97       |
| 35) Methylcyclohexane         | 6.767  | 83   | 520903   | 185.596 | ug/L  | 100      |
| 37) 1,2-Dichloropropane       | 6.796  | 63   | 301037   | 170.010 | ug/L  | 100      |
| 38) Bromodichloromethane      | 7.108  | 83   | 418884   | 186.459 | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene   | 7.610  | 75   | 525899   | 194.551 | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone      | 7.803  | 43   | 965228   | 369.521 | ug/L  | 98       |
| 42) Toluene                   | 7.973  | 91   | 1297226  | 185.201 | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene | 8.214  | 75   | 516769   | 200.182 | ug/L  | 99       |

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 Operator : SY/MD  
 Sample : VSTD20035  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD200035

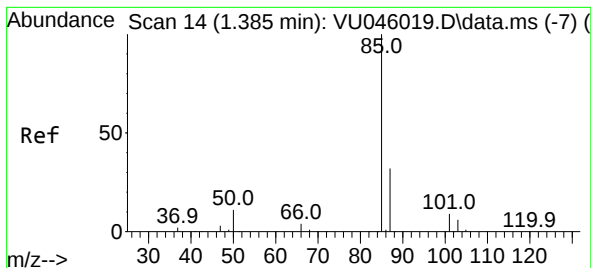
Quant Time: Nov 30 01:55:30 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM112921WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Nov 30 01:52:37 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 45) 1,1,2-Trichloroethane     | 8.404  | 97   | 306348   | 184.813 | ug/L  | 99       |
| 46) Tetrachloroethene         | 8.558  | 164  | 232306   | 198.935 | ug/L  | 98       |
| 48) 2-Hexanone                | 8.697  | 43   | 843780   | 381.931 | ug/L  | 97       |
| 49) Dibromochloromethane      | 8.816  | 129  | 345384   | 211.788 | ug/L  | 97       |
| 50) 1,2-Dibromoethane         | 8.928  | 107  | 344867   | 196.248 | ug/L  | 99       |
| 51) Chlorobenzene             | 9.452  | 112  | 820044   | 192.142 | ug/L  | 99       |
| 52) Ethylbenzene              | 9.574  | 91   | 1461174  | 195.356 | ug/L  | 99       |
| 53) m,p-Xylene                | 9.697  | 106  | 567311   | 198.124 | ug/L  | 100      |
| 54) o-xylene                  | 10.105 | 106  | 550688   | 195.163 | ug/L  | 99       |
| 55) Styrene                   | 10.118 | 104  | 974580   | 204.793 | ug/L  | 100      |
| 57) 1,1,2,2-Tetrachloroethane | 10.786 | 83   | 564445   | 194.197 | ug/L  | 99       |
| 59) Bromoform                 | 10.295 | 173  | 277640   | 215.691 | ug/L  | 100      |
| 60) 1,2,3-Trichloropropane    | 10.828 | 75   | 465980   | 173.942 | ug/L  | 99       |
| 61) Isopropylbenzene          | 10.487 | 105  | 1476168  | 181.406 | ug/L  | 100      |
| 62) 1,3,5-Trimethylbenzene    | 11.092 | 105  | 1331166  | 192.657 | ug/L  | 100      |
| 63) 1,2,4-Trimethylbenzene    | 11.471 | 105  | 1337101  | 191.230 | ug/L  | 100      |
| 64) 1,3-Dichlorobenzene       | 11.748 | 146  | 690119   | 190.339 | ug/L  | 99       |
| 65) 1,4-Dichlorobenzene       | 11.841 | 146  | 700989   | 190.430 | ug/L  | 99       |
| 67) 1,2-Dichlorobenzene       | 12.217 | 146  | 684085   | 183.752 | ug/L  | 100      |
| 68) 1,2-Dibromo-3-chloropr... | 12.999 | 75   | 142179   | 184.013 | ug/L  | 98       |
| 69) 1,3,5-Trichlorobenzene    | 13.224 | 180  | 533450   | 198.976 | ug/L  | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.844 | 180  | 489374   | 200.790 | ug/L  | 99       |
| 71) Naphthalene               | 14.089 | 128  | 1747462  | 190.664 | ug/L  | 100      |
| 72) 1,2,3-Trichlorobenzene    | 14.333 | 180  | 476284   | 190.833 | ug/L  | 99       |

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

Quant Time: Nov 30 01:55:30 2021  
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#2

Dichlorodifluoromethane

Concen: 228.300 ug/L

RT: 1.388 min Scan# 1

Delta R.T. 0.003 min

Lab File: VU046021.D

Acq: 29 Nov 2021 14:19

Instrument :

MSVOA\_U

ClientSampleId :

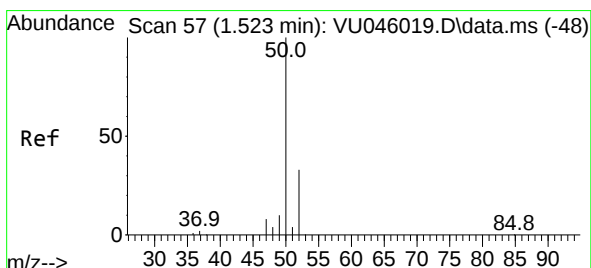
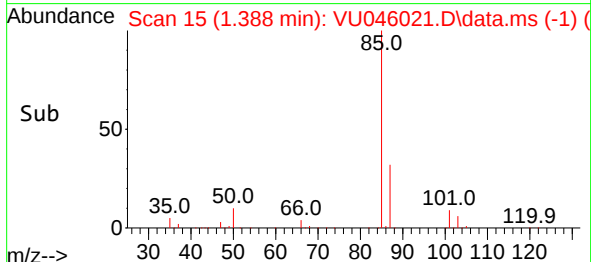
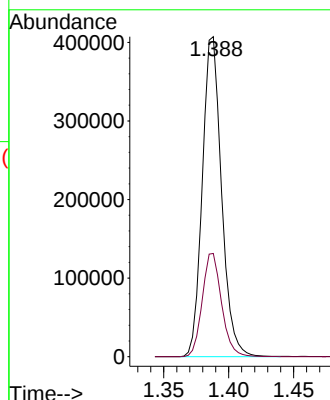
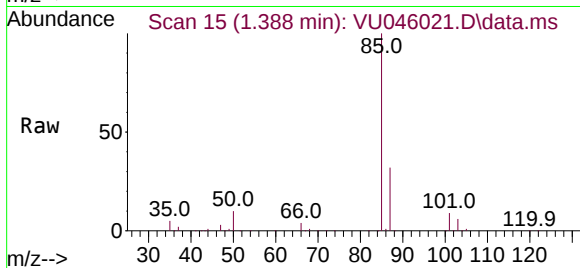
VSTD200035

Tgt Ion: 85 Resp: 420129

Ion Ratio Lower Upper

85 100

87 32.4 25.7 38.5



#3

Chloromethane

Concen: 171.957 ug/L

RT: 1.523 min Scan# 57

Delta R.T. -0.000 min

Lab File: VU046021.D

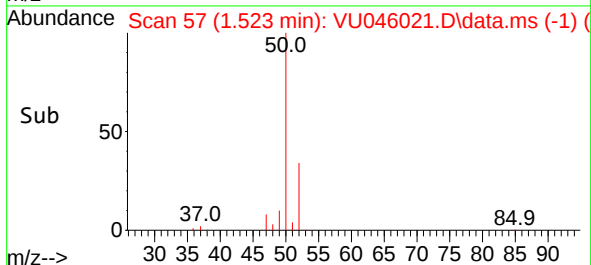
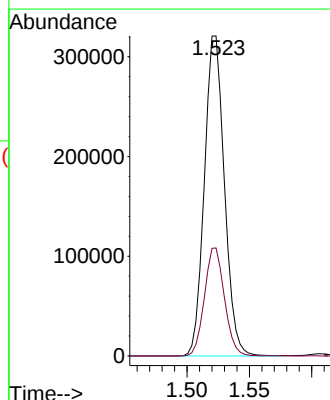
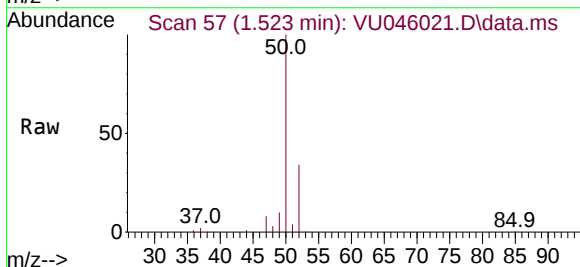
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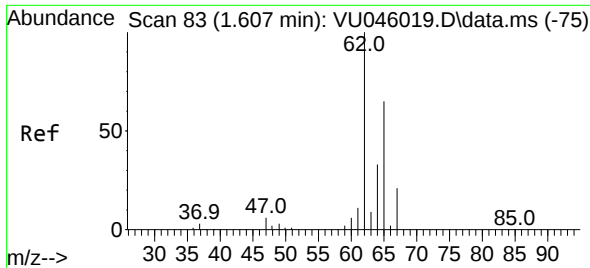
Tgt Ion: 50 Resp: 359079

Ion Ratio Lower Upper

50 100

52 33.7 23.2 43.2

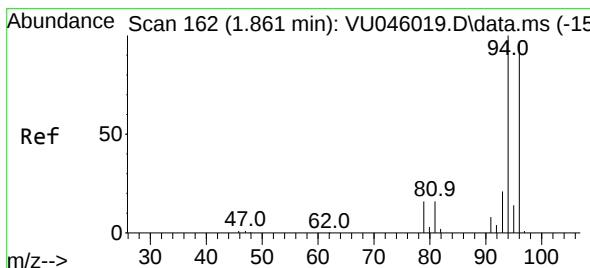
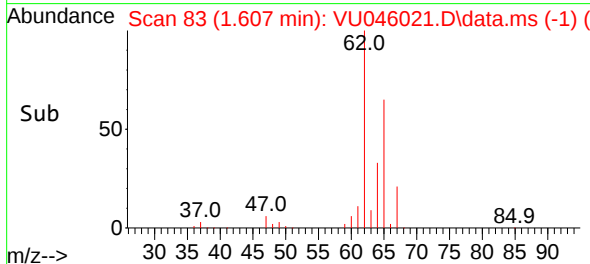
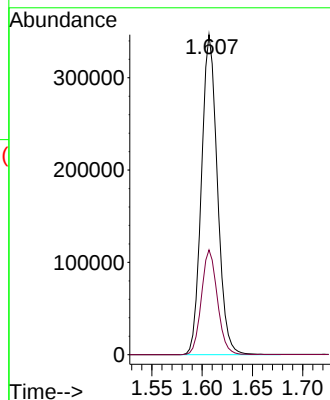
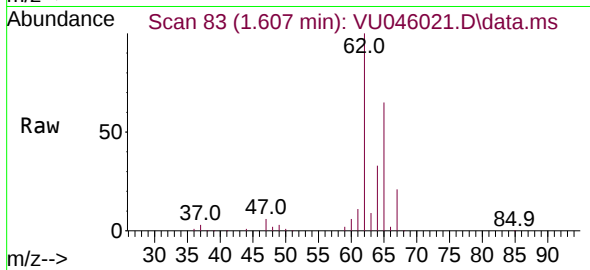




#5  
 Vinyl chloride  
 Concen: 193.340 ug/L  
 RT: 1.607 min Scan# 81  
 Delta R.T. -0.000 min  
 Lab File: VU046021.D  
 Acq: 29 Nov 2021 14:19

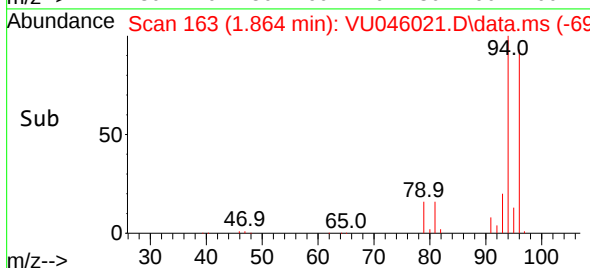
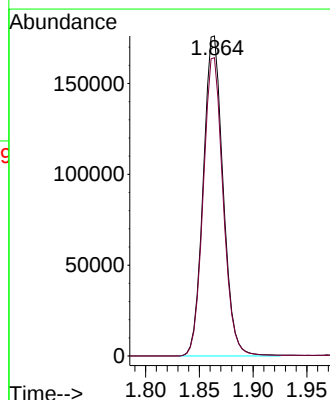
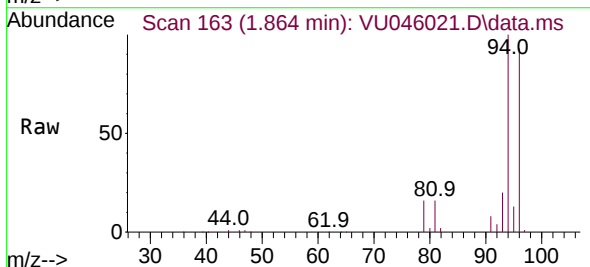
Instrument :  
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 VSTD200035

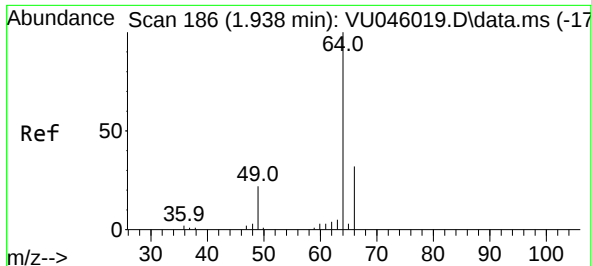
Tgt Ion: 62 Resp: 382777  
 Ion Ratio Lower Upper  
 62 100  
 64 32.7 22.9 42.5



#6  
 Bromomethane  
 Concen: 217.114 ug/L  
 RT: 1.864 min Scan# 163  
 Delta R.T. 0.003 min  
 Lab File: VU046021.D  
 Acq: 29 Nov 2021 14:19

Tgt Ion: 94 Resp: 225991  
 Ion Ratio Lower Upper  
 94 100  
 96 93.2 67.4 125.2

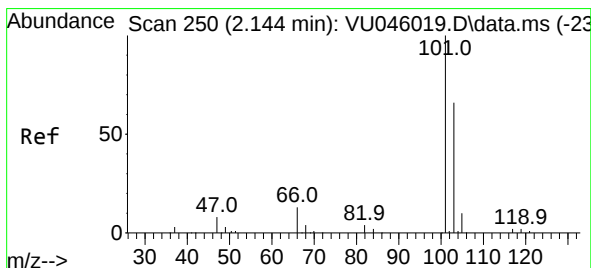
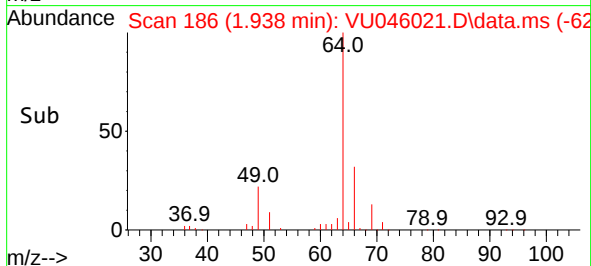
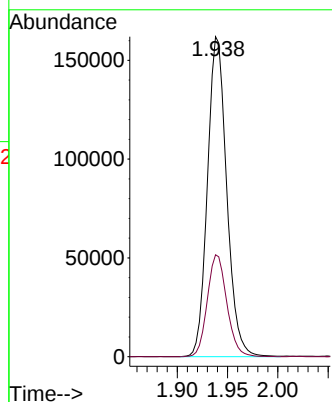
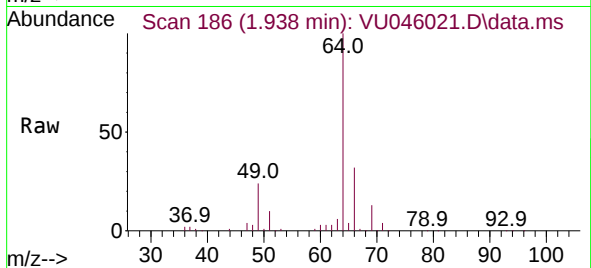




#8  
Chloroethane  
Concen: 182.073 ug/L  
RT: 1.938 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VU046021.D  
Acq: 29 Nov 2021 14:19

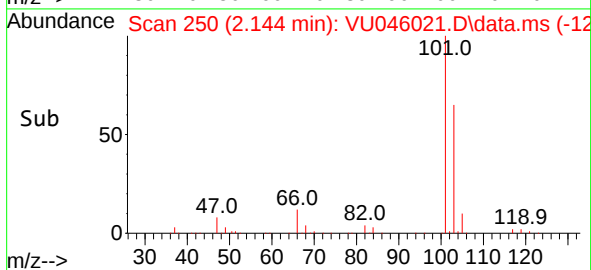
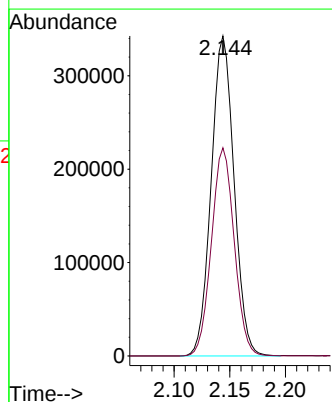
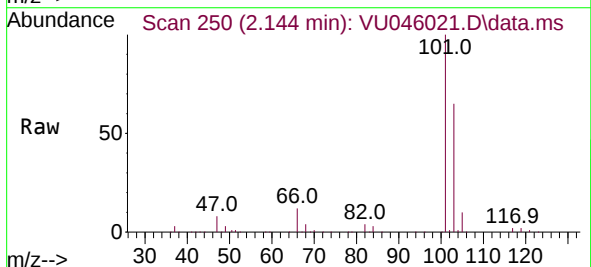
Instrument :  
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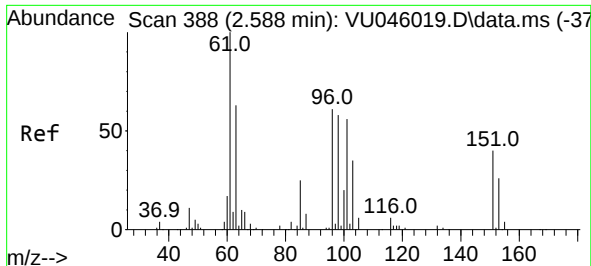
Tgt Ion: 64 Resp: 215969  
Ion Ratio Lower Upper  
64 100  
66 31.8 22.5 41.9



#9  
Trichlorofluoromethane  
Concen: 203.686 ug/L  
RT: 2.144 min Scan# 250  
Delta R.T. -0.000 min  
Lab File: VU046021.D  
Acq: 29 Nov 2021 14:19

Tgt Ion:101 Resp: 488889  
Ion Ratio Lower Upper  
101 100  
103 64.9 51.8 77.6

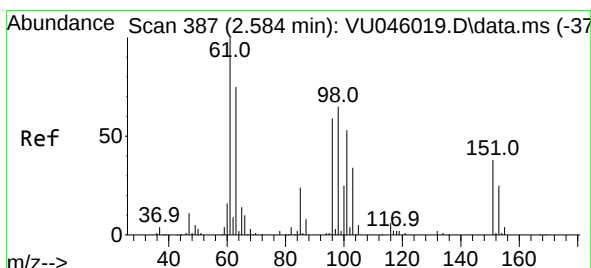
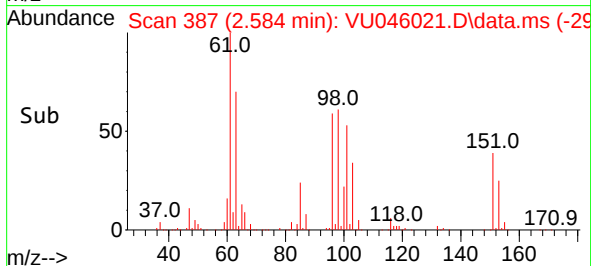
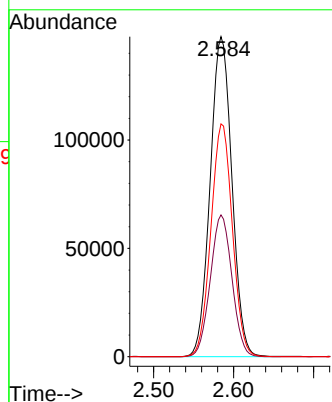
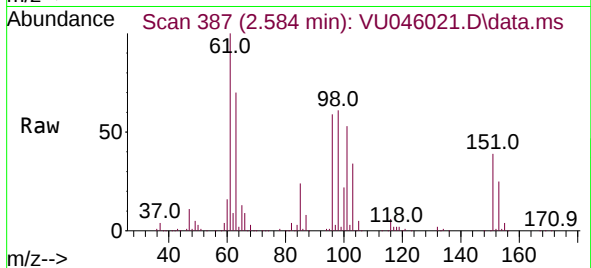




#10  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 193.126 ug/L  
 RT: 2.584 min Scan# 387  
 Delta R.T. -0.003 min  
 Lab File: VU046021.D  
 Acq: 29 Nov 2021 14:19

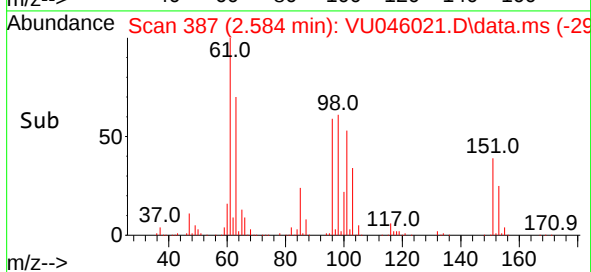
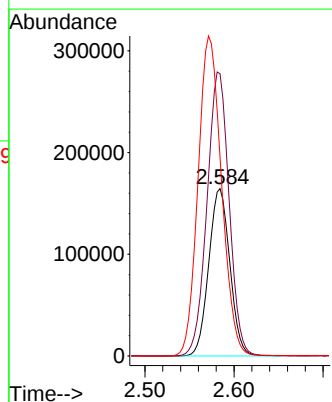
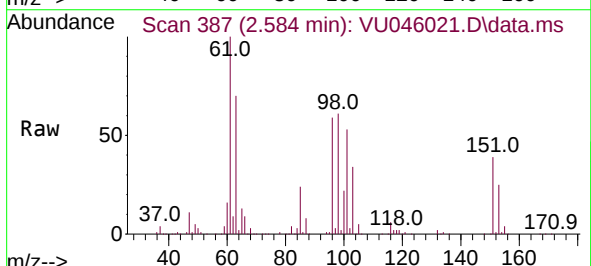
Instrument :  
 MSVOA\_U  
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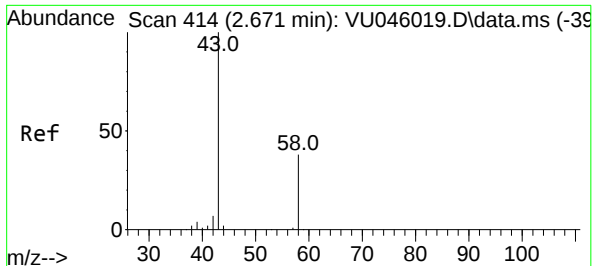
Tgt Ion:101 Resp: 279178  
 Ion Ratio Lower Upper  
 101 100  
 85 44.0 35.1 52.7  
 151 71.9 56.7 85.1



#12  
 1,1-Dichloroethene  
 Concen: 198.485 ug/L  
 RT: 2.584 min Scan# 387  
 Delta R.T. -0.000 min  
 Lab File: VU046021.D  
 Acq: 29 Nov 2021 14:19

Tgt Ion: 96 Resp: 269860  
 Ion Ratio Lower Upper  
 96 100  
 61 168.6 118.6 220.2  
 63 118.6 93.0 172.8





#13

Acetone

Concen: 451.867 ug/L

RT: 2.668 min Scan# 41

Delta R.T. -0.003 min

Lab File: VU046021.D

Acq: 29 Nov 2021 14:19

Instrument :

MSVOA\_U

ClientSampleId :

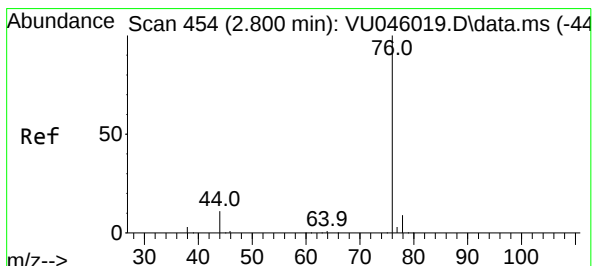
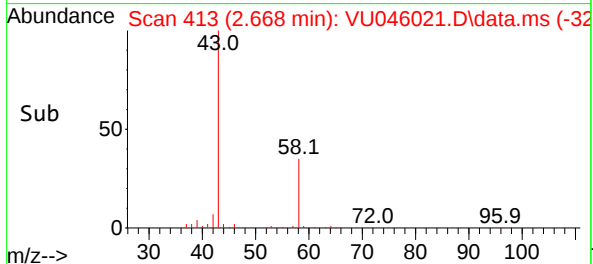
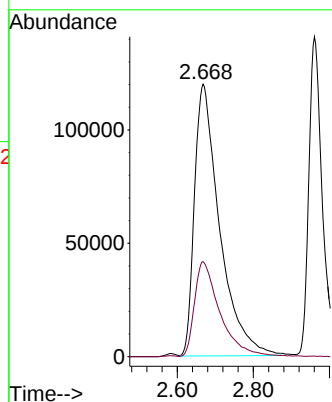
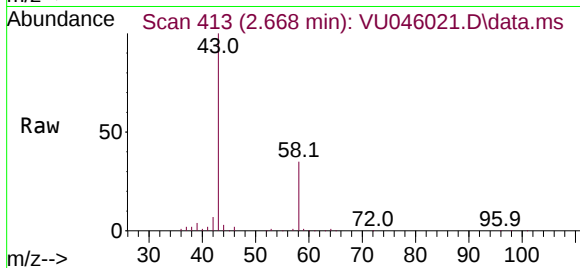
VSTD200035

Tgt Ion: 43 Resp: 551851

Ion Ratio Lower Upper

43 100

58 35.0 0.0 66.8



#14

Carbon disulfide

Concen: 211.266 ug/L

RT: 2.796 min Scan# 453

Delta R.T. -0.003 min

Lab File: VU046021.D

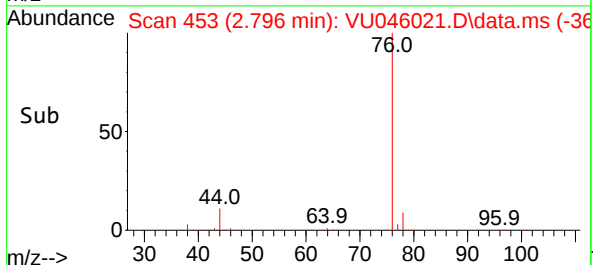
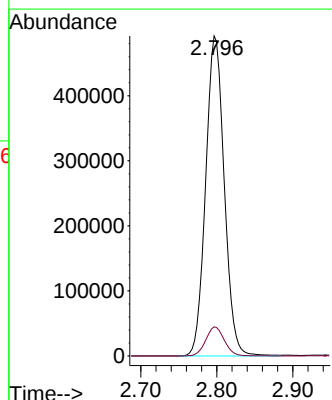
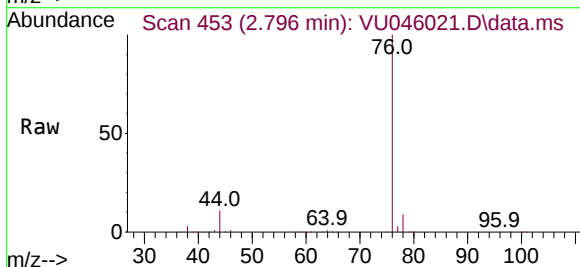
Acq: 29 Nov 2021 14:19

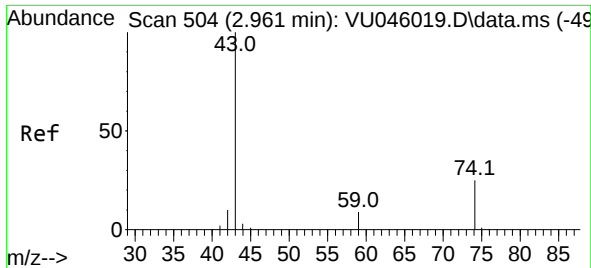
Tgt Ion: 76 Resp: 835616

Ion Ratio Lower Upper

76 100

78 9.1 7.3 10.9

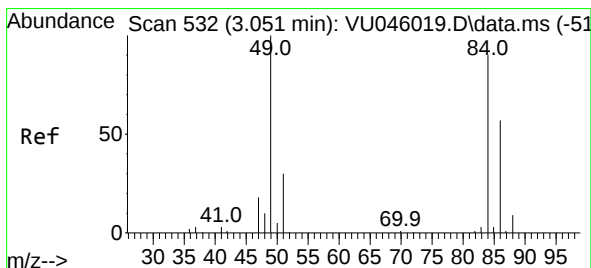
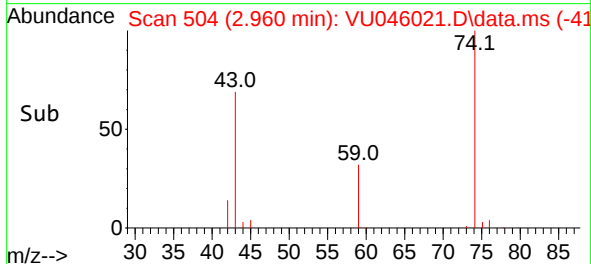
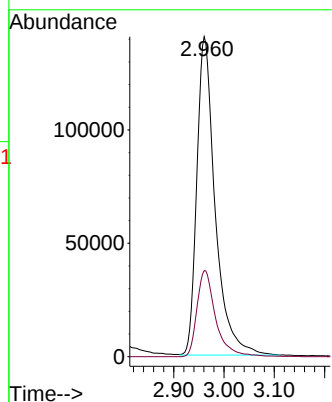
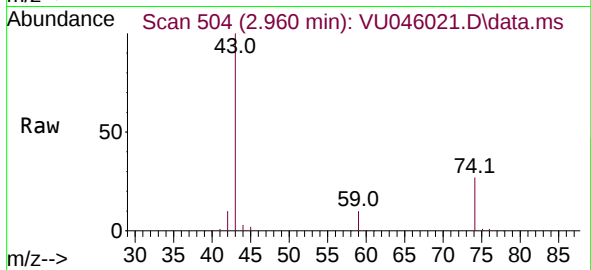




#15  
Methyl Acetate  
Concen: 190.079 ug/L  
RT: 2.960 min Scan# 504  
Delta R.T. -0.000 min  
Lab File: VU046021.D  
Acq: 29 Nov 2021 14:19

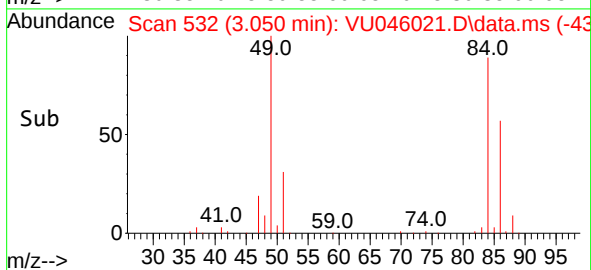
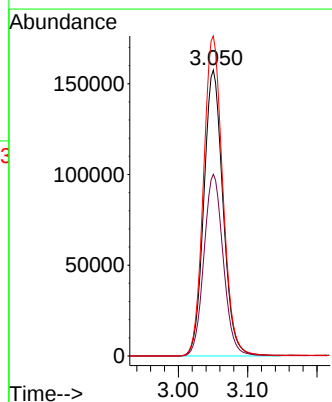
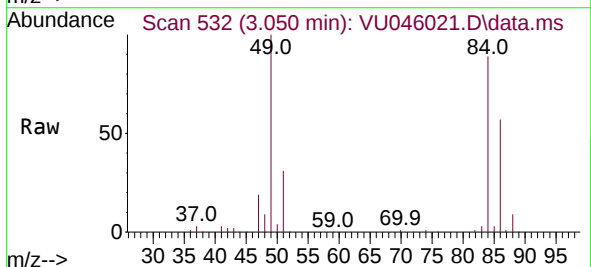
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD200035

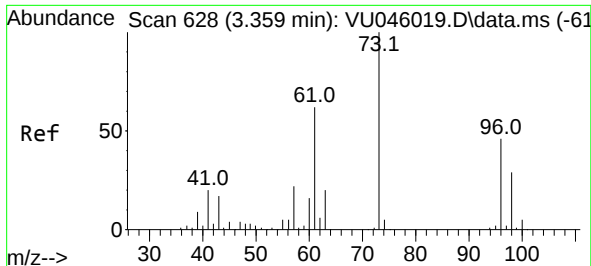
Tgt Ion: 43 Resp: 355471  
Ion Ratio Lower Upper  
43 100  
74 27.1 20.8 31.2



#16  
Methylene chloride  
Concen: 182.056 ug/L  
RT: 3.050 min Scan# 532  
Delta R.T. -0.000 min  
Lab File: VU046021.D  
Acq: 29 Nov 2021 14:19

Tgt Ion: 84 Resp: 302237  
Ion Ratio Lower Upper  
84 100  
86 63.6 44.7 83.1  
49 111.9 78.4 145.6





#17

trans-1,2-Dichloroethene

Concen: 198.074 ug/L

RT: 3.356 min Scan# 61

Delta R.T. -0.003 min

Lab File: VU046021.D

Acq: 29 Nov 2021 14:19

Instrument :

MSVOA\_U

ClientSampleId :

VSTD200035

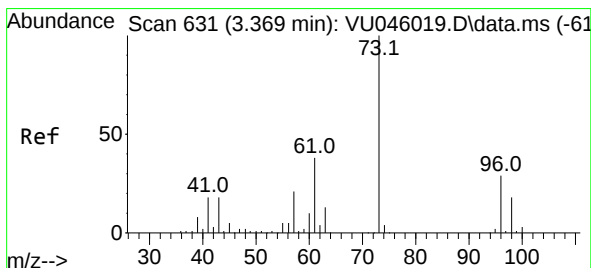
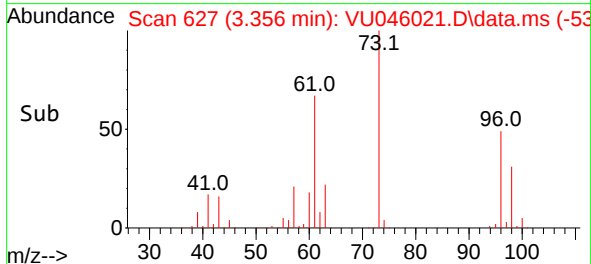
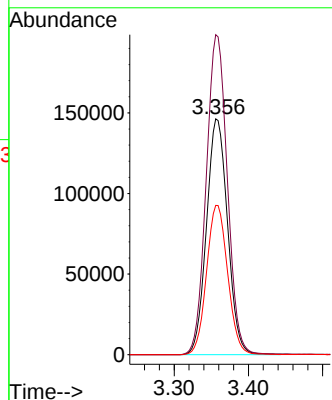
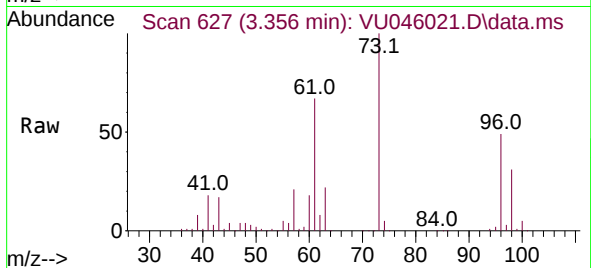
Tgt Ion: 96 Resp: 288708

Ion Ratio Lower Upper

96 100

61 135.7 94.6 175.6

98 63.3 44.0 81.8



#18

Methyl tert-butyl Ether

Concen: 188.589 ug/L

RT: 3.366 min Scan# 630

Delta R.T. -0.003 min

Lab File: VU046021.D

Acq: 29 Nov 2021 14:19

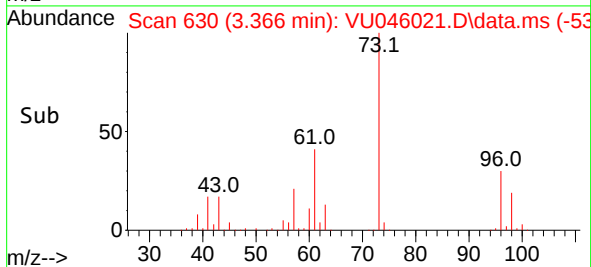
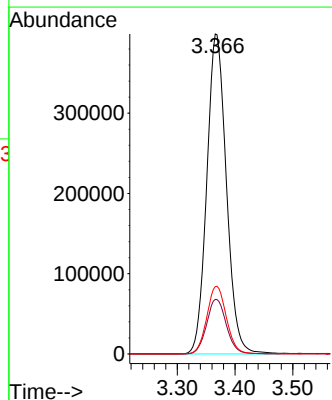
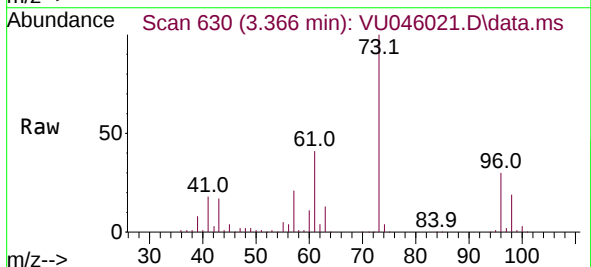
Tgt Ion: 73 Resp: 938137

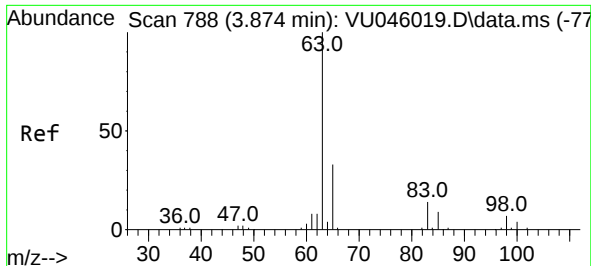
Ion Ratio Lower Upper

73 100

43 17.2 14.0 21.0

57 21.2 17.0 25.4





#19

1,1-Dichloroethane

Concen: 179.353 ug/L

RT: 3.874 min Scan# 788

Delta R.T. -0.000 min

Lab File: VU046021.D

Acq: 29 Nov 2021 14:19

Instrument :

MSVOA\_U

ClientSampleId :

VSTD200035

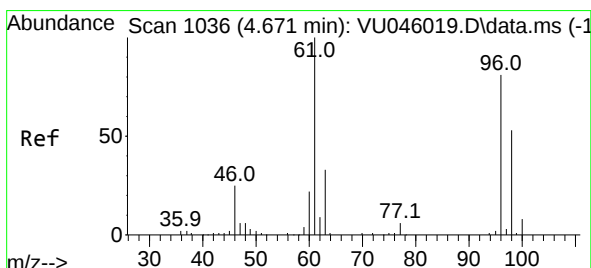
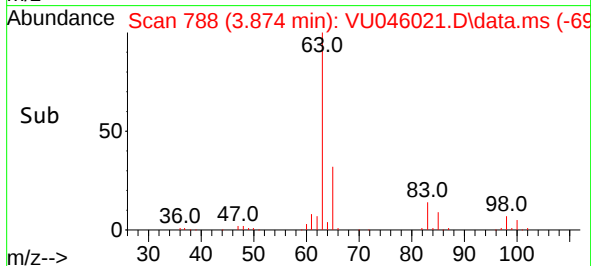
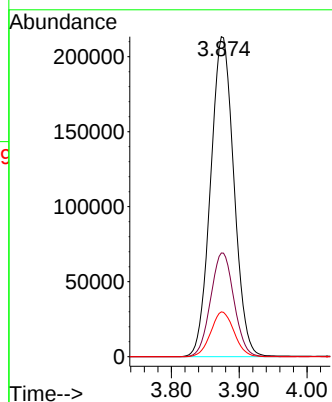
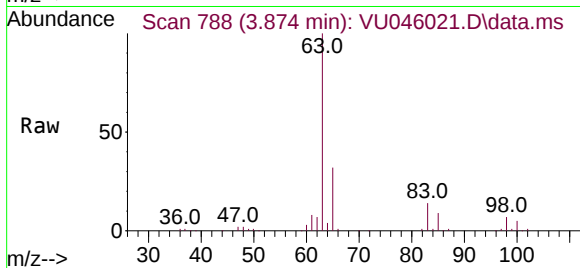
Tgt Ion: 63 Resp: 509553

Ion Ratio Lower Upper

63 100

65 32.4 22.8 42.4

83 14.0 9.6 17.8



#20

cis-1,2-Dichloroethene

Concen: 192.521 ug/L

RT: 4.671 min Scan# 1036

Delta R.T. -0.000 min

Lab File: VU046021.D

Acq: 29 Nov 2021 14:19

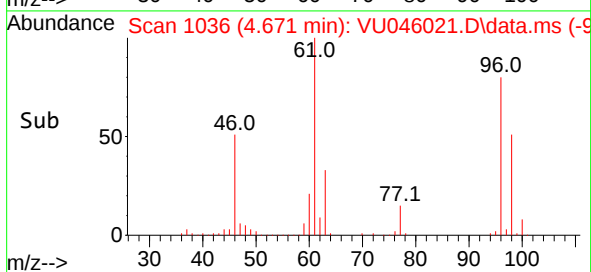
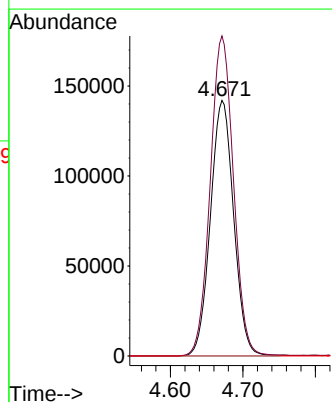
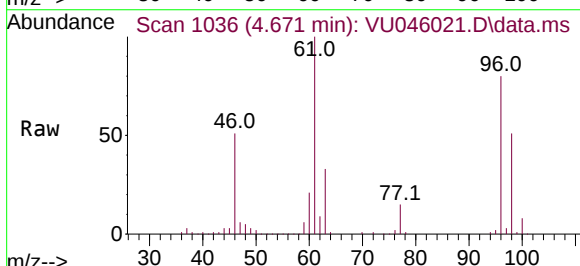
Tgt Ion: 96 Resp: 316360

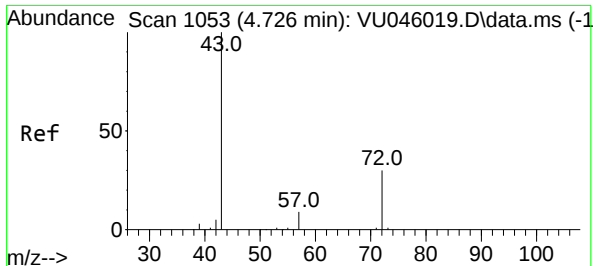
Ion Ratio Lower Upper

96 100

61 125.2 86.8 161.2

68 0.0 0.0 0.0





#22

2-Butanone

Concen: 405.389 ug/L

RT: 4.726 min Scan# 1053

Delta R.T. -0.000 min

Lab File: VU046021.D

Acq: 29 Nov 2021 14:19

Instrument :

MSVOA\_U

ClientSampleId :

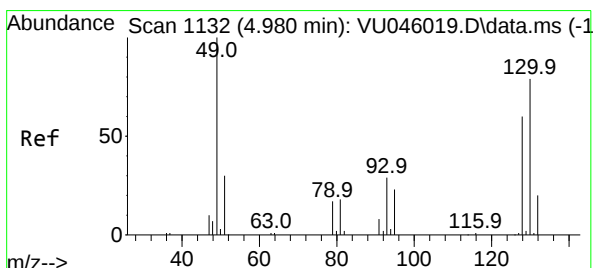
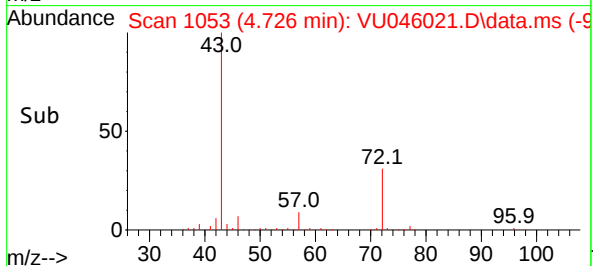
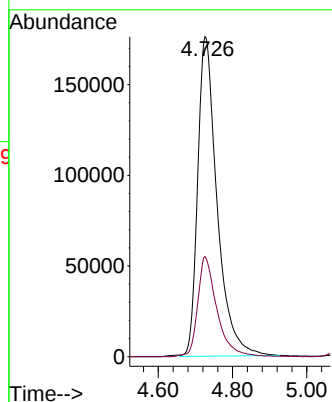
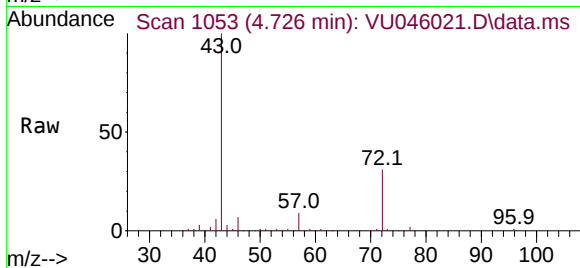
VSTD200035

Tgt Ion: 43 Resp: 638862

Ion Ratio Lower Upper

43 100

72 30.9 14.5 43.6



#23

Bromochloromethane

Concen: 195.987 ug/L

RT: 4.980 min Scan# 1132

Delta R.T. -0.000 min

Lab File: VU046021.D

Acq: 29 Nov 2021 14:19

Tgt Ion: 128 Resp: 156537

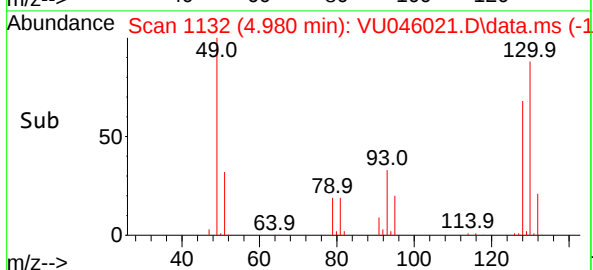
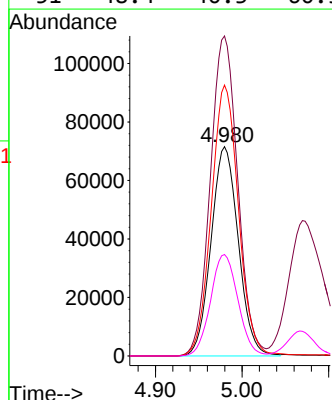
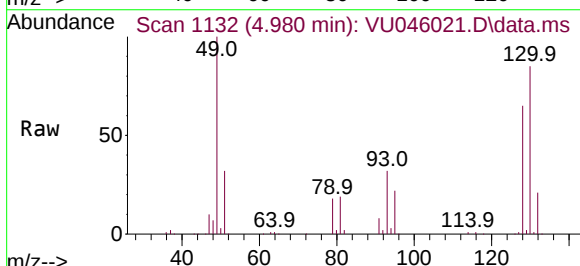
Ion Ratio Lower Upper

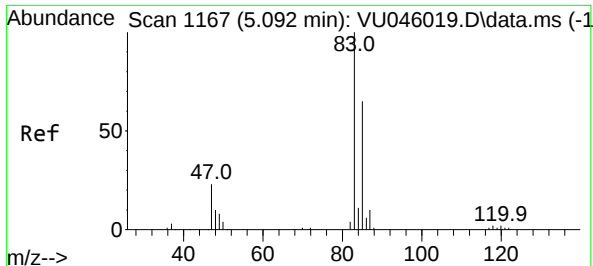
128 100

49 152.9 115.9 215.3

130 129.4 91.8 170.4

51 48.4 40.3 60.5





#25

Chloroform

Concen: 186.450 ug/L

RT: 5.092 min Scan# 1167

Delta R.T. -0.000 min

Lab File: VU046021.D

Acq: 29 Nov 2021 14:19

Instrument :

MSVOA\_U

ClientSampleId :

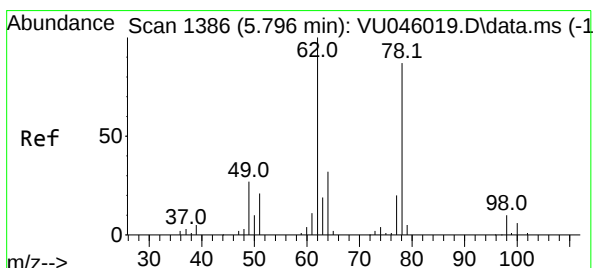
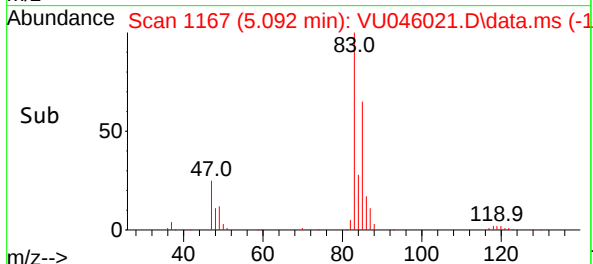
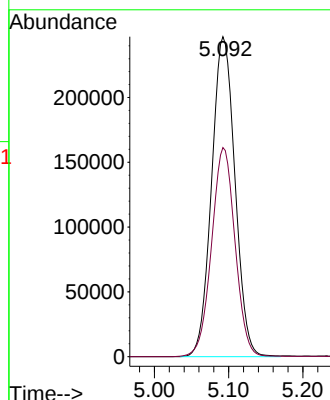
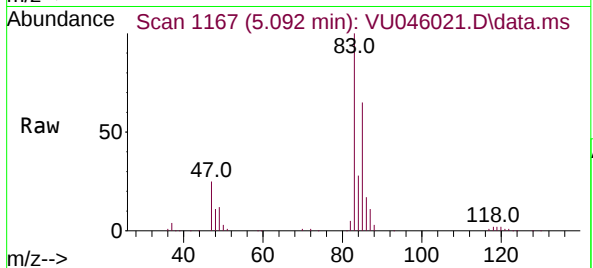
VSTD200035

Tgt Ion: 83 Resp: 540133

Ion Ratio Lower Upper

83 100

85 65.4 45.8 85.2



#27

1,2-Dichloroethane

Concen: 180.400 ug/L

RT: 5.800 min Scan# 1387

Delta R.T. 0.003 min

Lab File: VU046021.D

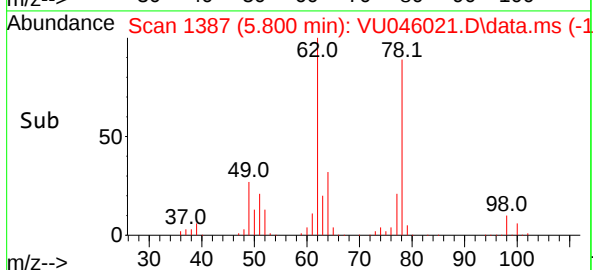
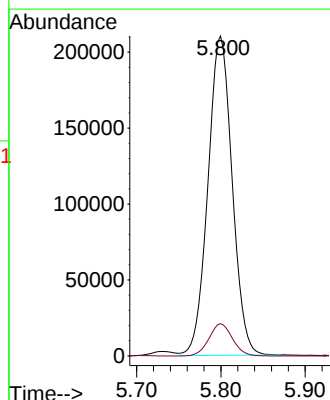
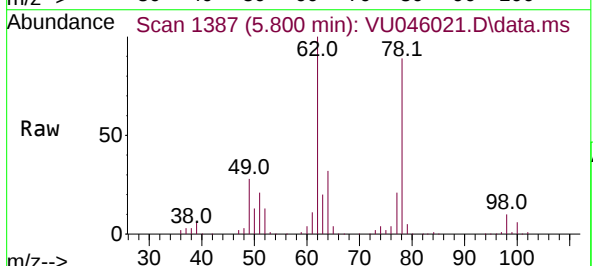
Acq: 29 Nov 2021 14:19

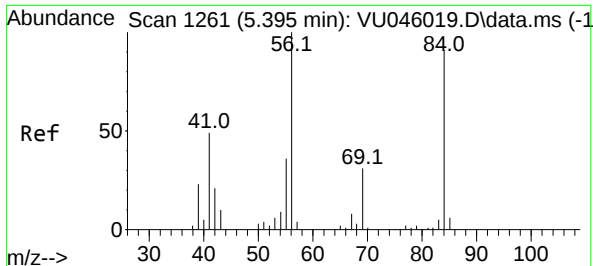
Tgt Ion: 62 Resp: 420164

Ion Ratio Lower Upper

62 100

98 10.1 7.9 11.9





#29

Cyclohexane

Concen: 174.964 ug/L

RT: 5.394 min Scan# 1261

Delta R.T. -0.000 min

Lab File: VU046021.D

Acq: 29 Nov 2021 14:19

Instrument :

MSVOA\_U

ClientSampleId :

VSTD200035

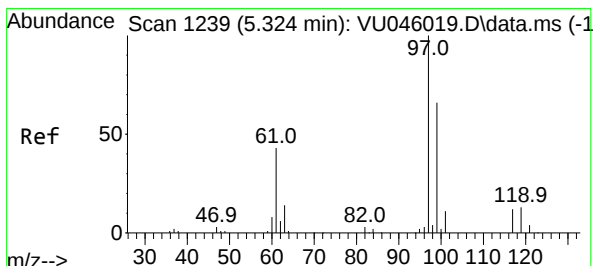
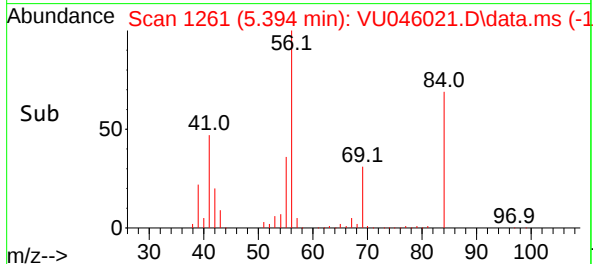
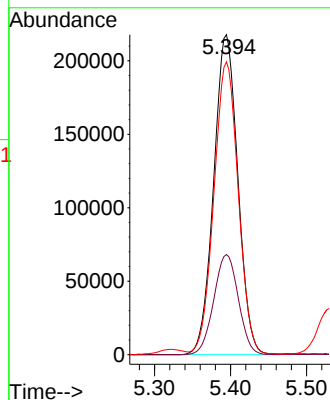
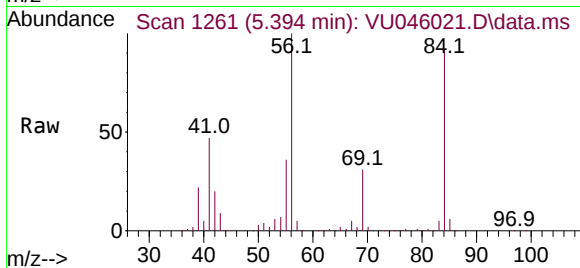
Tgt Ion: 56 Resp: 480350

Ion Ratio Lower Upper

56 100

69 31.9 25.2 37.8

84 92.2 73.3 109.9



#30

1,1,1-Trichloroethane

Concen: 194.291 ug/L

RT: 5.324 min Scan# 1239

Delta R.T. -0.000 min

Lab File: VU046021.D

Acq: 29 Nov 2021 14:19

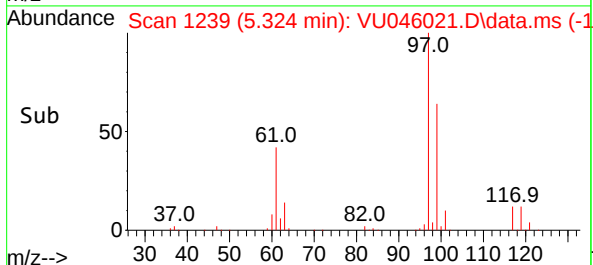
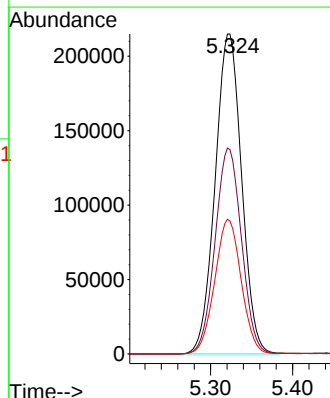
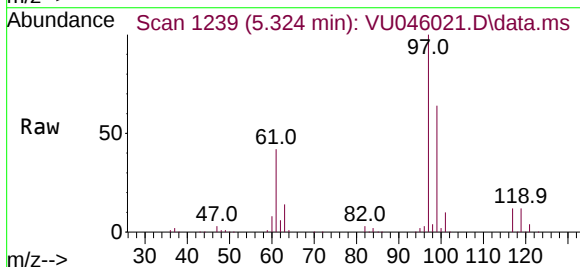
Tgt Ion: 97 Resp: 483146

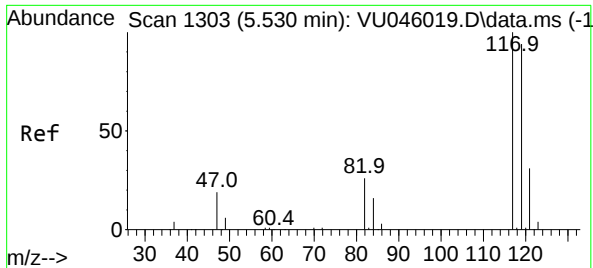
Ion Ratio Lower Upper

97 100

99 64.3 51.8 77.6

61 42.0 34.4 51.6

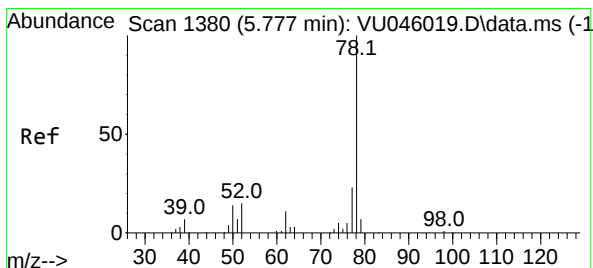
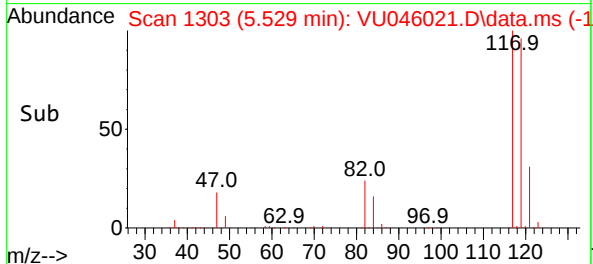
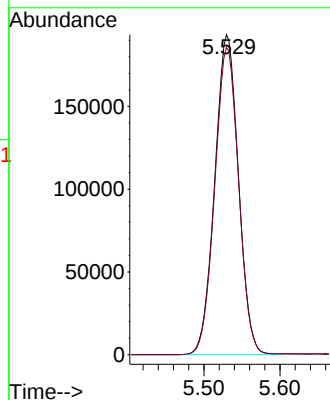
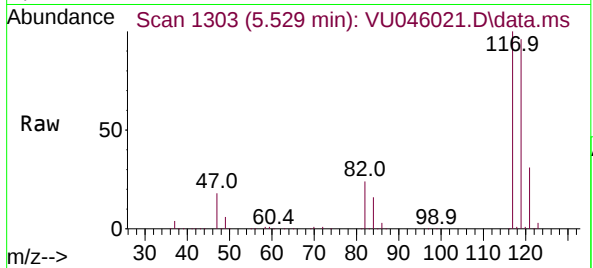




#31  
Carbon tetrachloride  
Concen: 208.568 ug/L  
RT: 5.529 min Scan# 117  
Delta R.T. -0.000 min  
Lab File: VU046021.D  
Acq: 29 Nov 2021 14:19

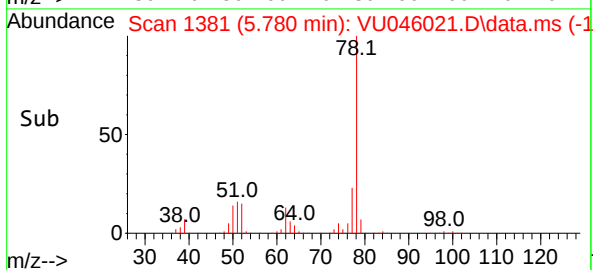
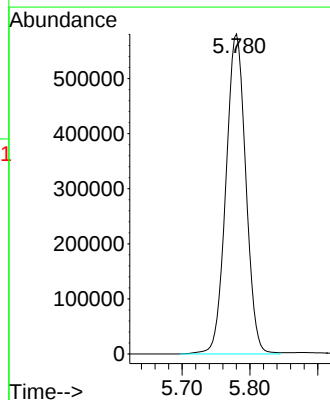
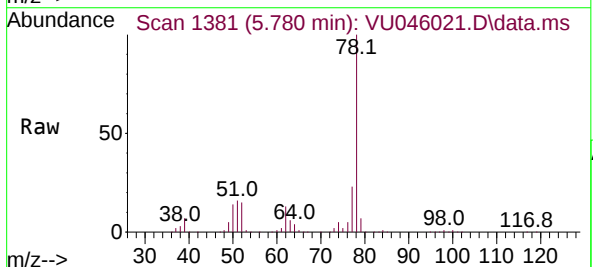
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD200035

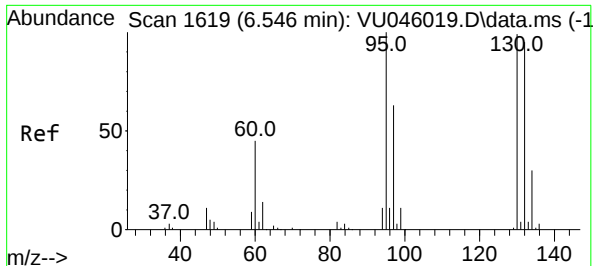
Tgt Ion:117 Resp: 418631  
Ion Ratio Lower Upper  
117 100  
119 96.6 75.7 113.5



#33  
Benzene  
Concen: 177.277 ug/L  
RT: 5.780 min Scan# 1381  
Delta R.T. 0.003 min  
Lab File: VU046021.D  
Acq: 29 Nov 2021 14:19

Tgt Ion: 78 Resp: 1184439





#34

Trichloroethene

Concen: 189.932 ug/L

RT: 6.545 min Scan# 1

Delta R.T. -0.000 min

Lab File: VU046021.D

Acq: 29 Nov 2021 14:19

Instrument :

MSVOA\_U

ClientSampleId :

VSTD200035

Tgt Ion: 95 Resp: 309910

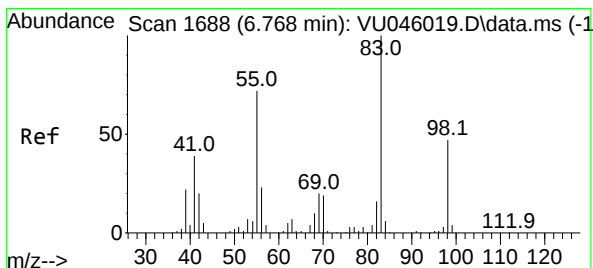
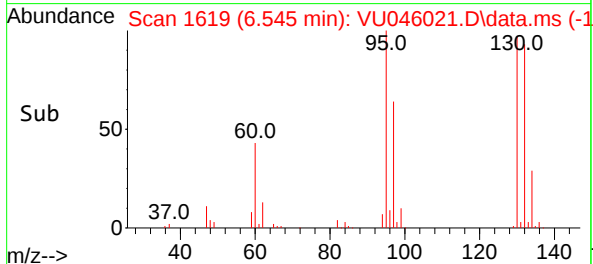
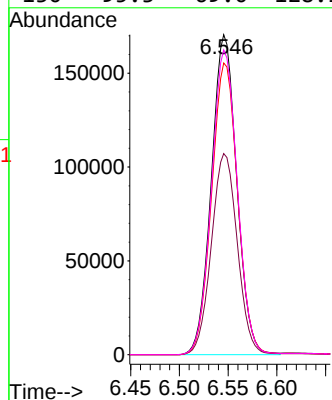
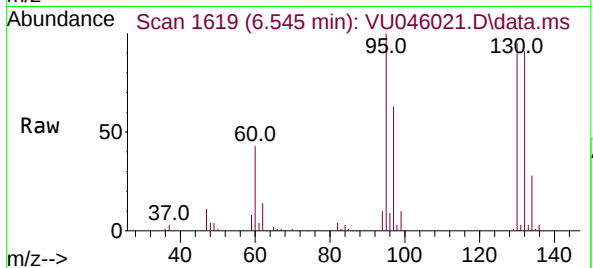
Ion Ratio Lower Upper

95 100

97 62.9 44.1 81.9

132 91.1 66.8 124.0

130 95.3 69.0 128.1



#35

Methylcyclohexane

Concen: 185.596 ug/L

RT: 6.767 min Scan# 1688

Delta R.T. -0.000 min

Lab File: VU046021.D

Acq: 29 Nov 2021 14:19

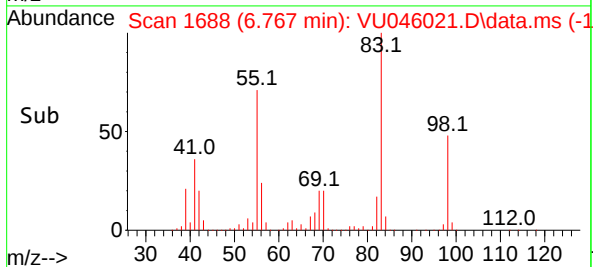
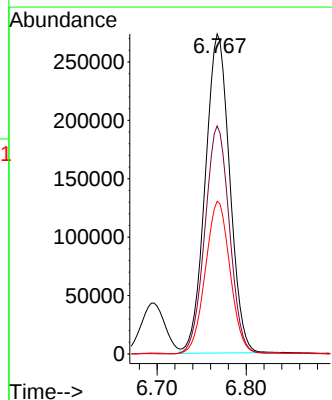
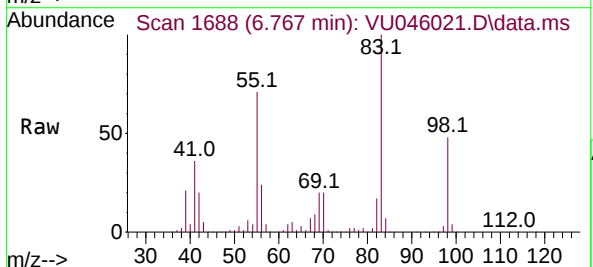
Tgt Ion: 83 Resp: 520903

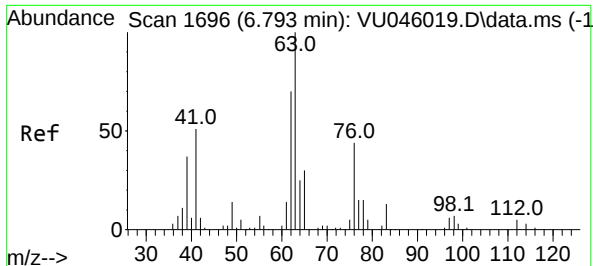
Ion Ratio Lower Upper

83 100

55 71.8 57.8 86.6

98 48.3 38.4 57.6





#37

1,2-Dichloropropane

Concen: 170.010 ug/L

RT: 6.796 min Scan# 1

Delta R.T. 0.003 min

Lab File: VU046021.D

Acq: 29 Nov 2021 14:19

Instrument :

MSVOA\_U

ClientSampleId :

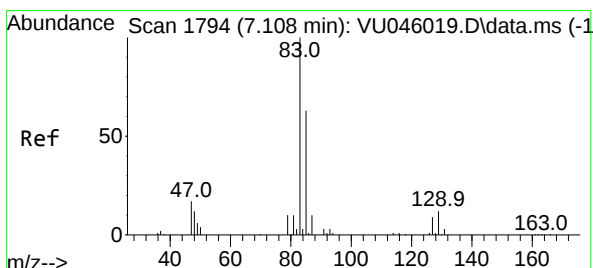
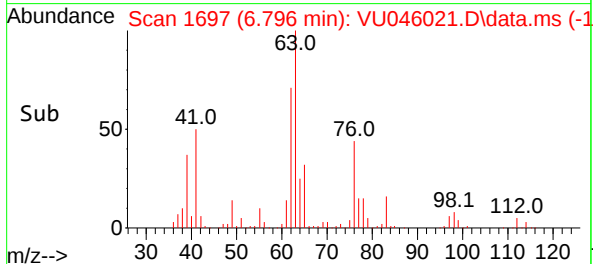
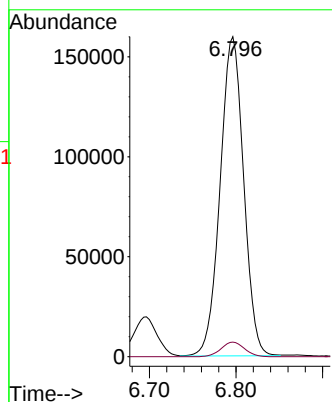
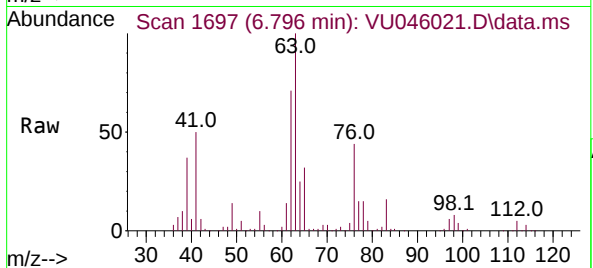
VSTD200035

Tgt Ion: 63 Resp: 301037

Ion Ratio Lower Upper

63 100

112 4.5 3.8 5.6



#38

Bromodichloromethane

Concen: 186.459 ug/L

RT: 7.108 min Scan# 1794

Delta R.T. -0.000 min

Lab File: VU046021.D

Acq: 29 Nov 2021 14:19

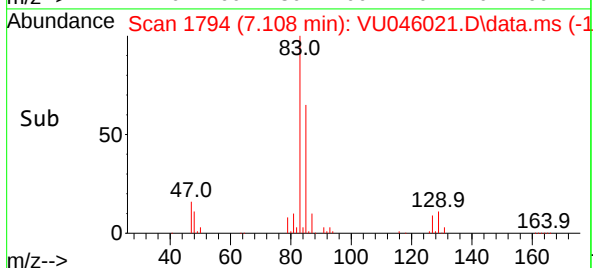
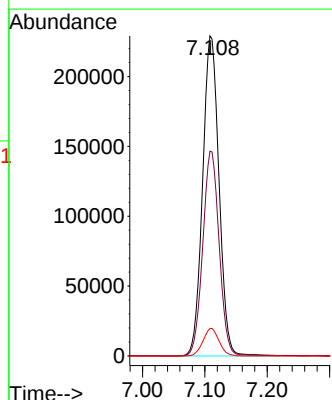
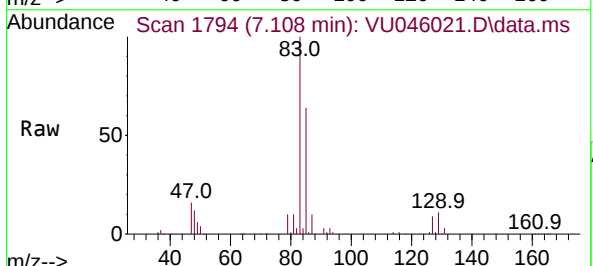
Tgt Ion: 83 Resp: 418884

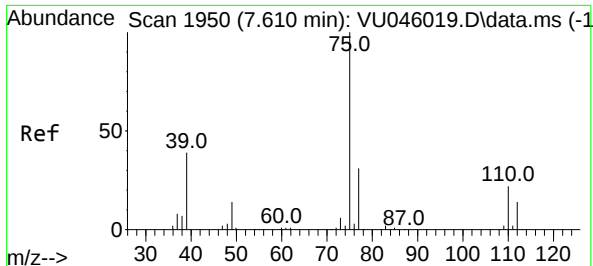
Ion Ratio Lower Upper

83 100

85 64.0 44.4 82.5

127 8.6 6.9 10.3





#39

cis-1,3-Dichloropropene

Concen: 194.551 ug/L

RT: 7.610 min Scan# 1950

Delta R.T. -0.000 min

Lab File: VU046021.D

Acq: 29 Nov 2021 14:19

Instrument :

MSVOA\_U

ClientSampleId :

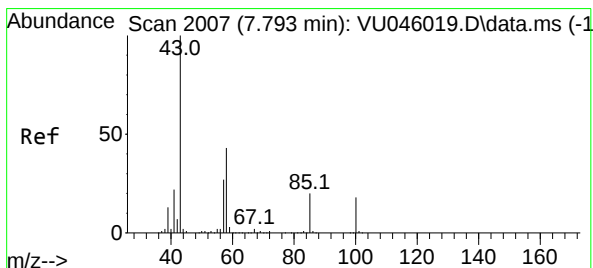
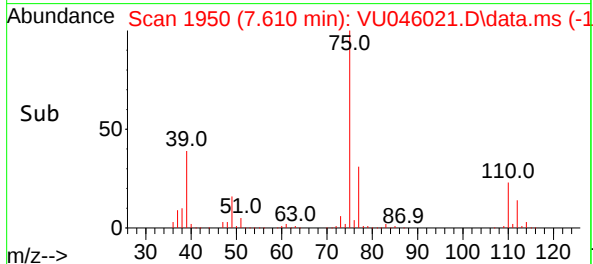
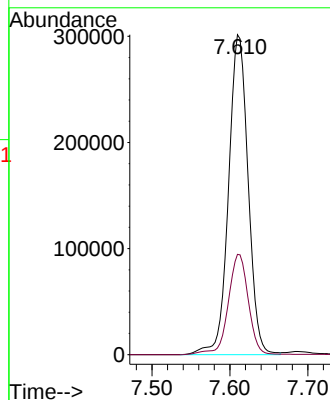
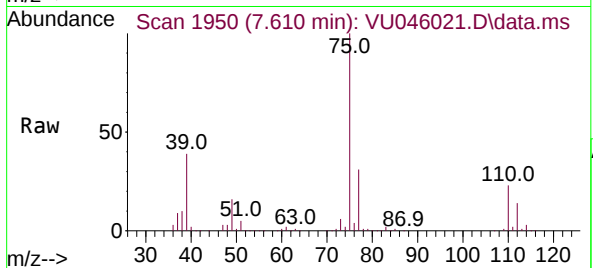
VSTD200035

Tgt Ion: 75 Resp: 525899

Ion Ratio Lower Upper

75 100

77 31.4 21.8 40.6



#40

4-Methyl-2-pentanone

Concen: 369.521 ug/L

RT: 7.803 min Scan# 2010

Delta R.T. 0.009 min

Lab File: VU046021.D

Acq: 29 Nov 2021 14:19

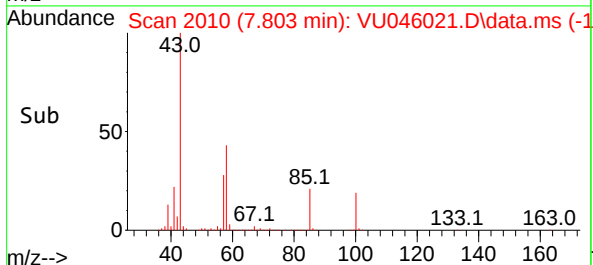
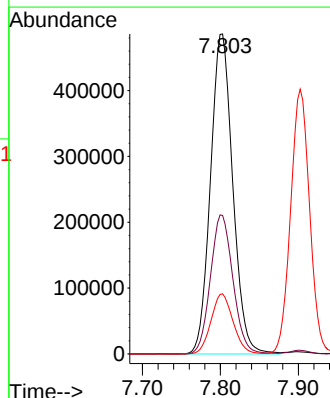
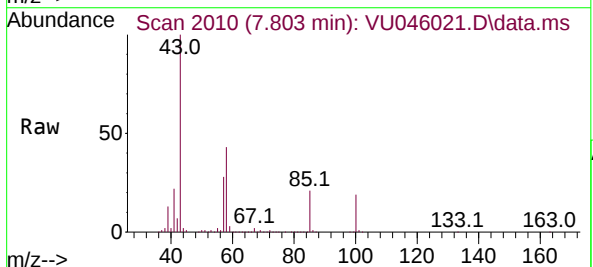
Tgt Ion: 43 Resp: 965228

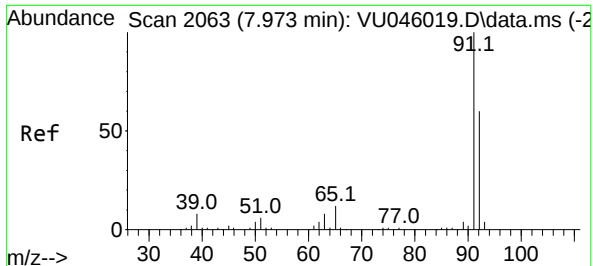
Ion Ratio Lower Upper

43 100

58 43.9 34.2 51.4

100 18.6 14.5 21.7





#42

Toluene

Concen: 185.201 ug/L

RT: 7.973 min Scan# 2063

Delta R.T. -0.000 min

Lab File: VU046021.D

Acq: 29 Nov 2021 14:19

Instrument :

MSVOA\_U

ClientSampleId :

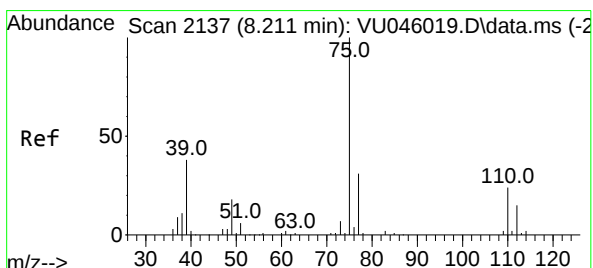
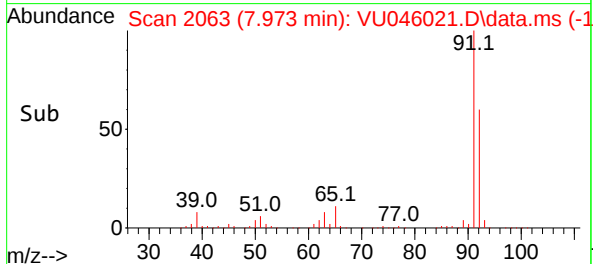
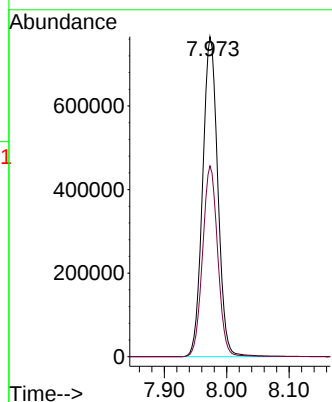
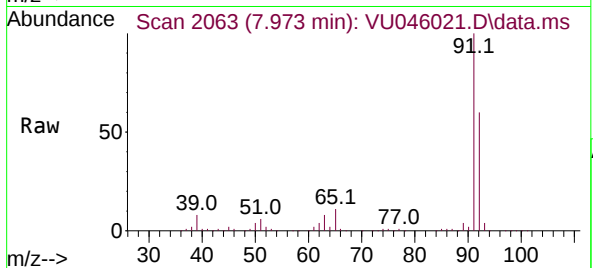
VSTD200035

Tgt Ion: 91 Resp: 1297226

Ion Ratio Lower Upper

91 100

92 59.6 41.9 77.7



#44

trans-1,3-Dichloropropene

Concen: 200.182 ug/L

RT: 8.214 min Scan# 2138

Delta R.T. 0.003 min

Lab File: VU046021.D

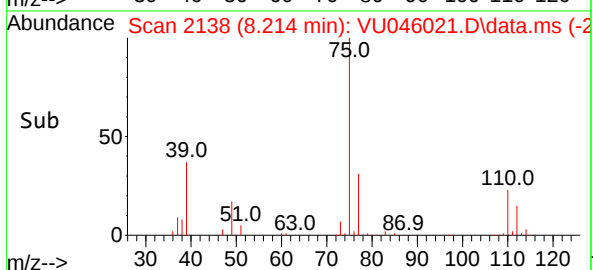
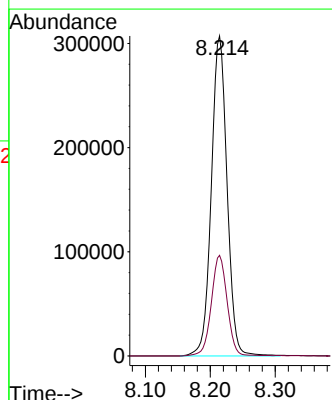
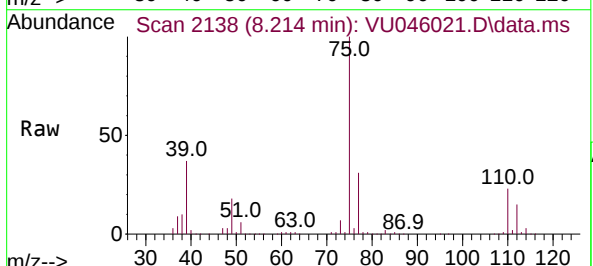
Acq: 29 Nov 2021 14:19

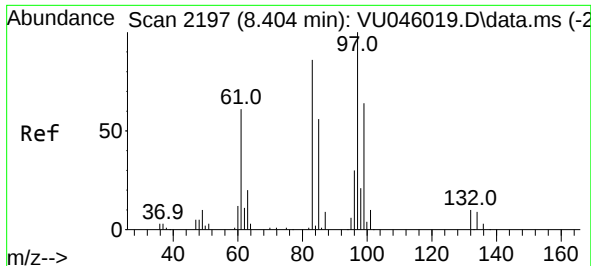
Tgt Ion: 75 Resp: 516769

Ion Ratio Lower Upper

75 100

77 31.5 21.7 40.3





#45

1,1,2-Trichloroethane

Concen: 184.813 ug/L

RT: 8.404 min Scan# 2197

Delta R.T. -0.000 min

Lab File: VU046021.D

Acq: 29 Nov 2021 14:19

Instrument :

MSVOA\_U

ClientSampleId :

VSTD200035

Tgt Ion: 97 Resp: 306348

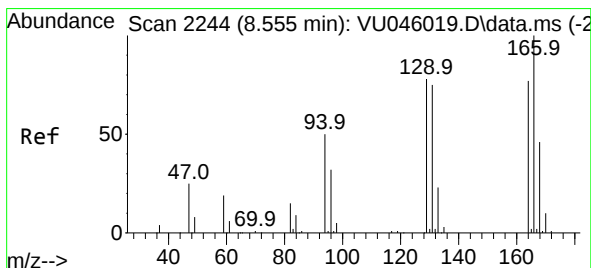
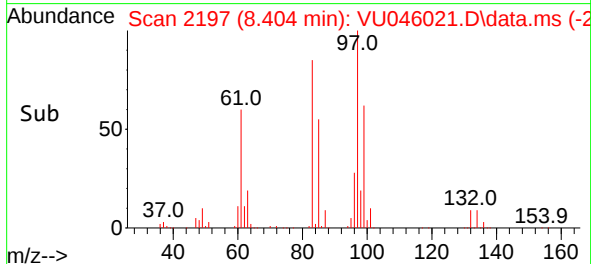
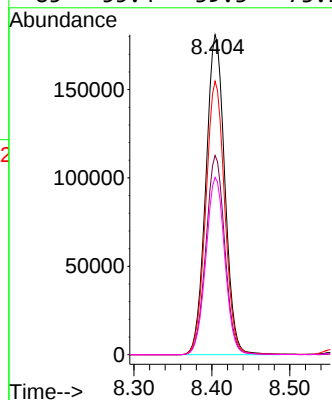
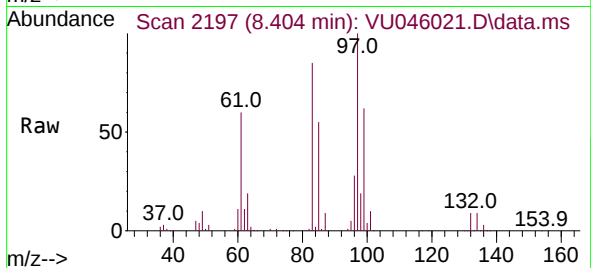
Ion Ratio Lower Upper

97 100

99 62.2 44.7 82.9

83 85.5 60.2 111.8

85 55.4 39.3 73.1



#46

Tetrachloroethene

Concen: 198.935 ug/L

RT: 8.558 min Scan# 2245

Delta R.T. 0.003 min

Lab File: VU046021.D

Acq: 29 Nov 2021 14:19

Tgt Ion: 164 Resp: 232306

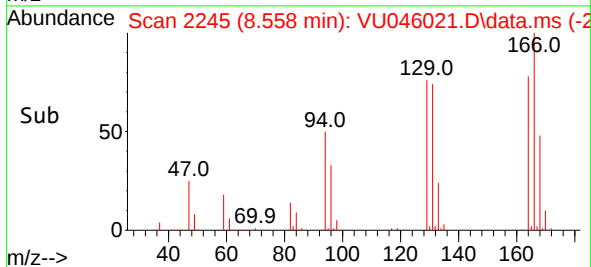
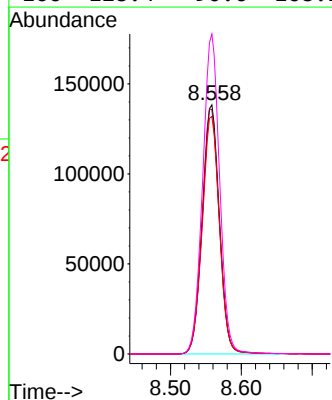
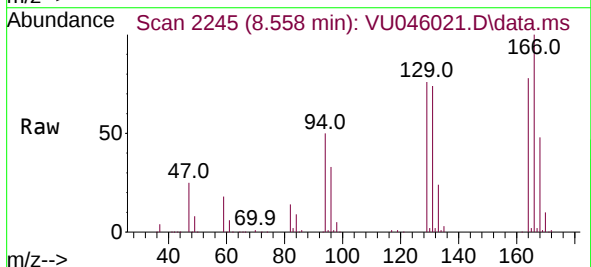
Ion Ratio Lower Upper

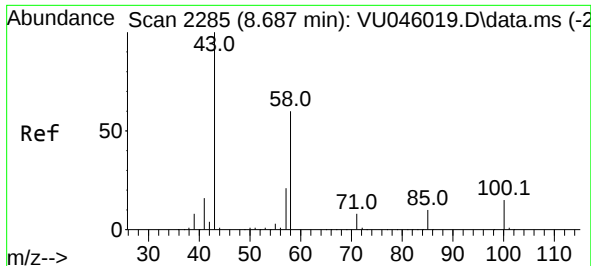
164 100

129 98.0 71.1 132.1

131 95.3 67.8 126.0

166 128.4 90.6 168.2



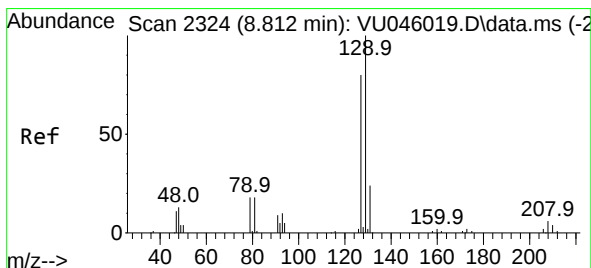
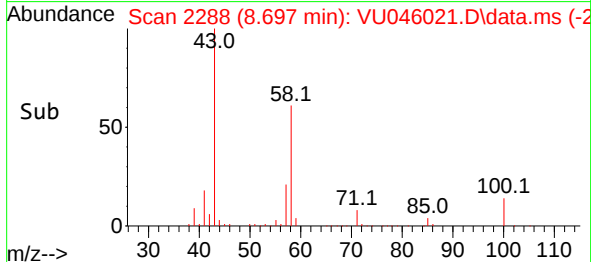
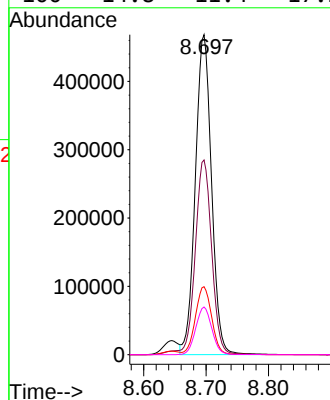
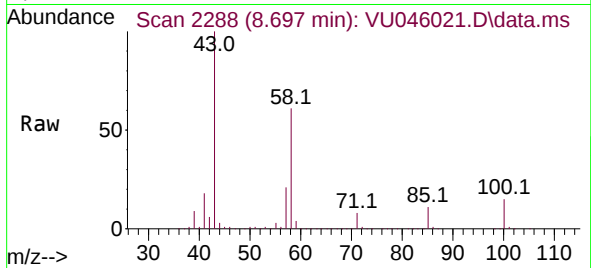


#48  
2-Hexanone  
Concen: 381.931 ug/L  
RT: 8.697 min Scan# 21  
Delta R.T. 0.010 min  
Lab File: VU046021.D  
Acq: 29 Nov 2021 14:19

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD200035

Tgt Ion: 43 Resp: 843780

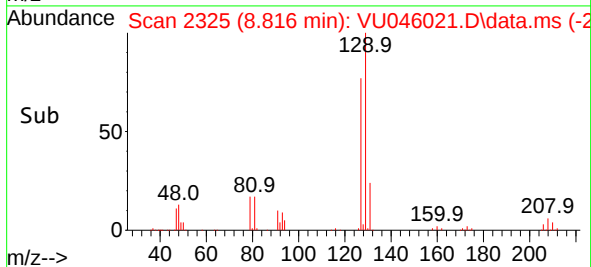
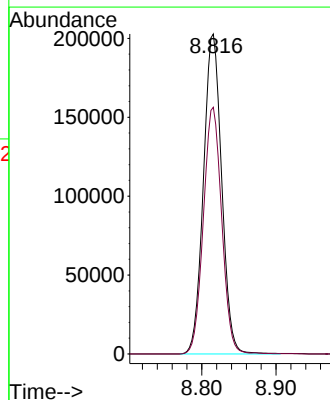
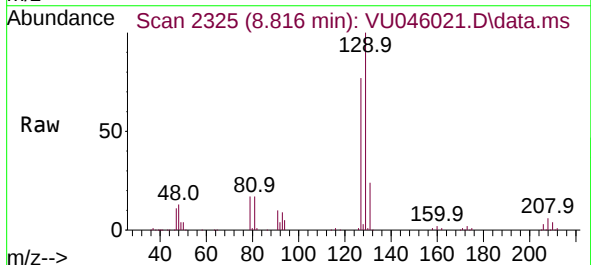
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 62.4  | 47.4  | 71.2  |
| 57  | 21.4  | 16.6  | 25.0  |
| 100 | 14.8  | 11.4  | 17.2  |

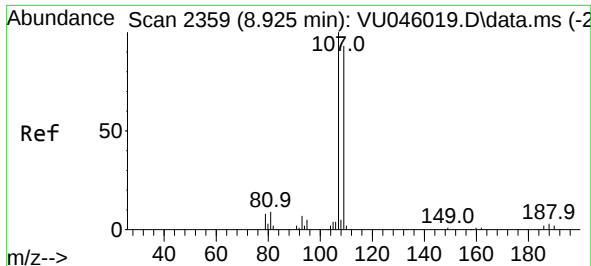


#49  
Dibromochloromethane  
Concen: 211.788 ug/L  
RT: 8.816 min Scan# 2325  
Delta R.T. 0.003 min  
Lab File: VU046021.D  
Acq: 29 Nov 2021 14:19

Tgt Ion: 129 Resp: 345384

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 129 | 100   |       |       |
| 127 | 77.1  | 55.6  | 103.4 |





#50

1,2-Dibromoethane

Concen: 196.248 ug/L

RT: 8.928 min Scan# 21

Delta R.T. 0.003 min

Lab File: VU046021.D

Acq: 29 Nov 2021 14:19

Instrument :

MSVOA\_U

ClientSampleId :

VSTD200035

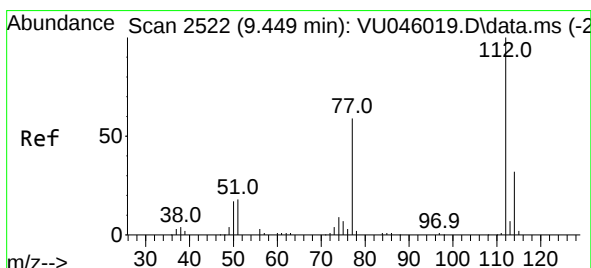
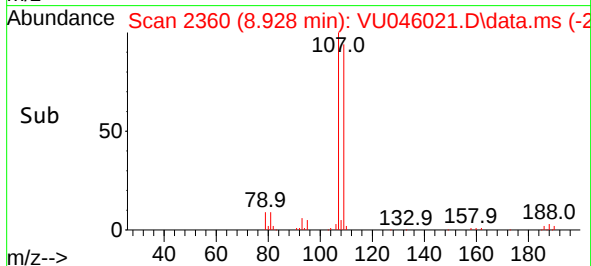
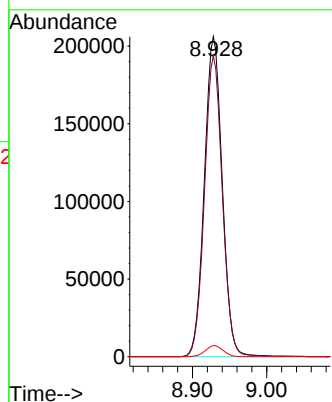
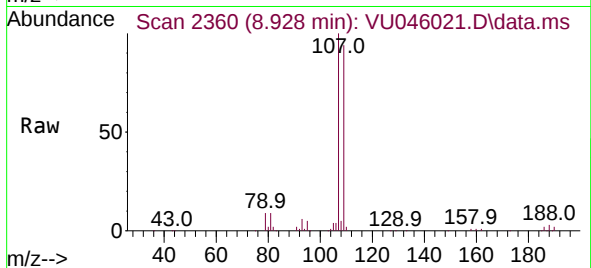
Tgt Ion:107 Resp: 344867

Ion Ratio Lower Upper

107 100

109 94.0 64.9 120.5

188 3.5 2.6 3.8



#51

Chlorobenzene

Concen: 192.142 ug/L

RT: 9.452 min Scan# 2523

Delta R.T. 0.003 min

Lab File: VU046021.D

Acq: 29 Nov 2021 14:19

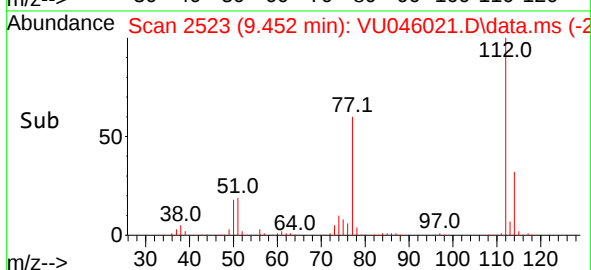
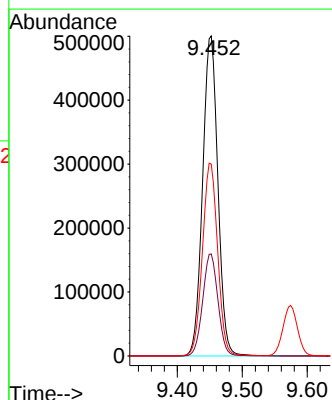
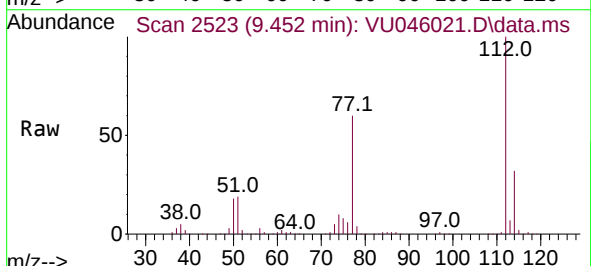
Tgt Ion:112 Resp: 820044

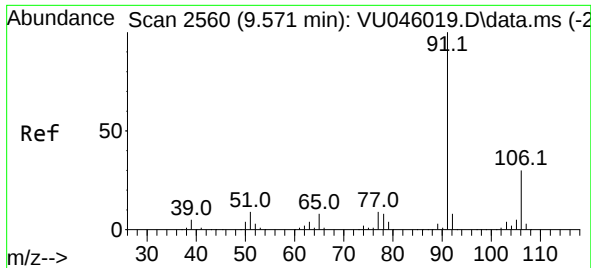
Ion Ratio Lower Upper

112 100

114 31.9 22.2 41.2

77 59.9 47.4 71.0

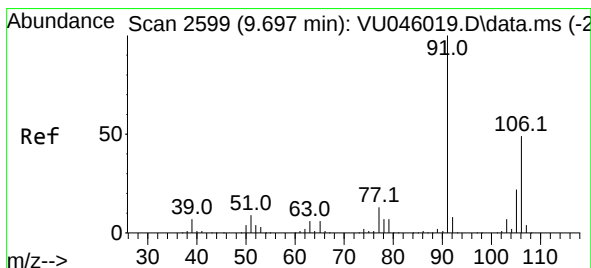
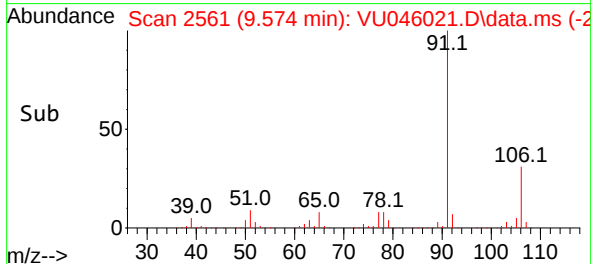
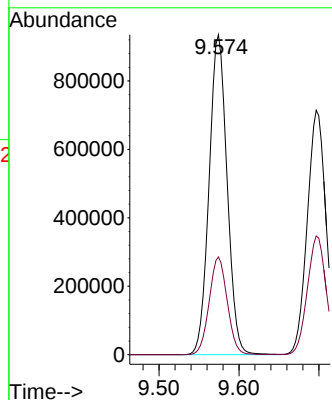
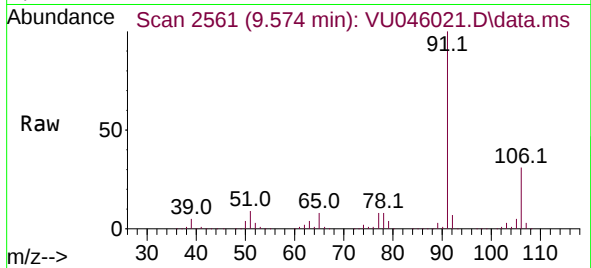




#52  
Ethylbenzene  
Concen: 195.356 ug/L  
RT: 9.574 min Scan# 2560  
Delta R.T. 0.003 min  
Lab File: VU046021.D  
Acq: 29 Nov 2021 14:19

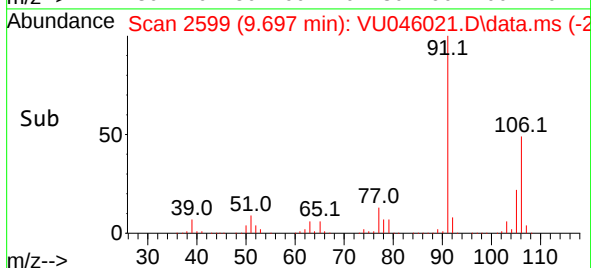
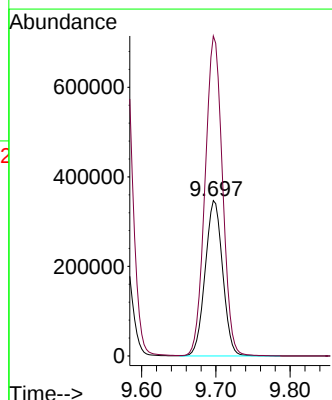
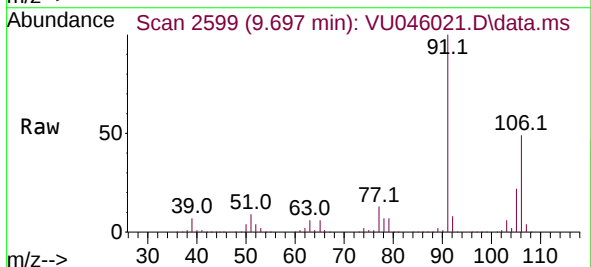
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD200035

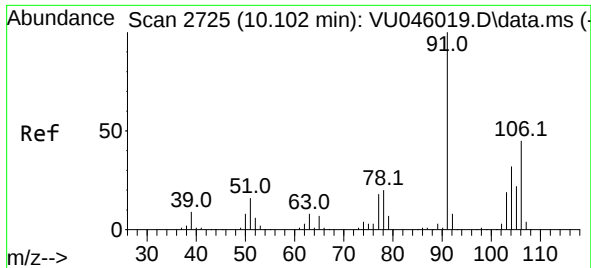
Tgt Ion: 91 Resp: 1461174  
Ion Ratio Lower Upper  
91 100  
106 30.6 21.1 39.3



#53  
m,p-Xylene  
Concen: 198.124 ug/L  
RT: 9.697 min Scan# 2599  
Delta R.T. -0.000 min  
Lab File: VU046021.D  
Acq: 29 Nov 2021 14:19

Tgt Ion: 106 Resp: 567311  
Ion Ratio Lower Upper  
106 100  
91 206.1 144.3 268.1

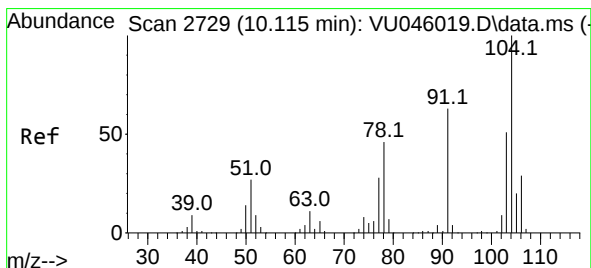
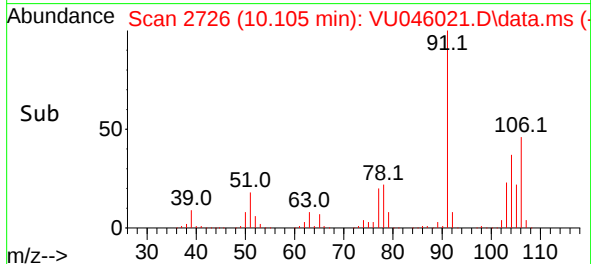
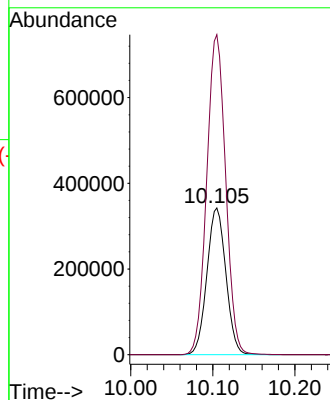
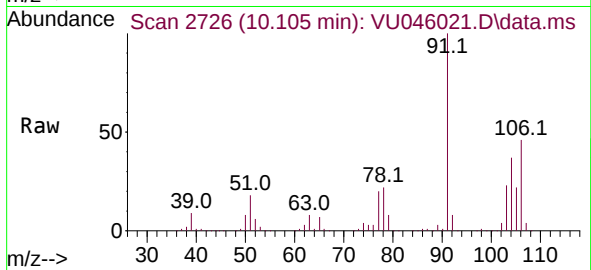




#54  
o-xylene  
Concen: 195.163 ug/L  
RT: 10.105 min Scan# 2726  
Delta R.T. 0.003 min  
Lab File: VU046021.D  
Acq: 29 Nov 2021 14:19

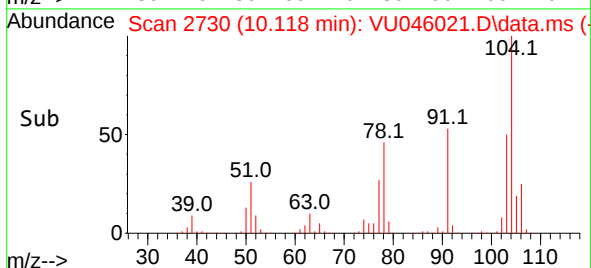
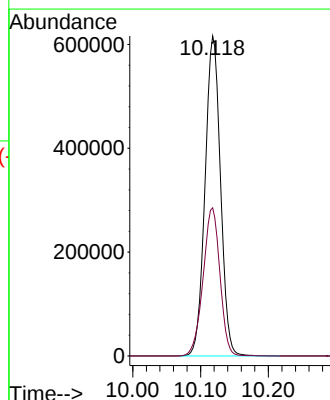
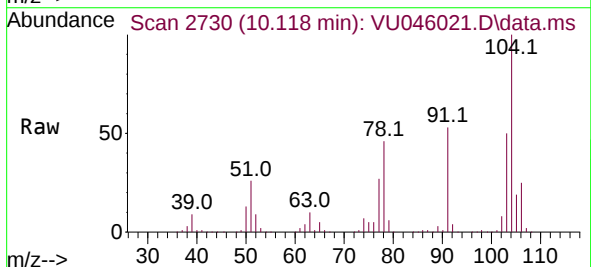
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD200035

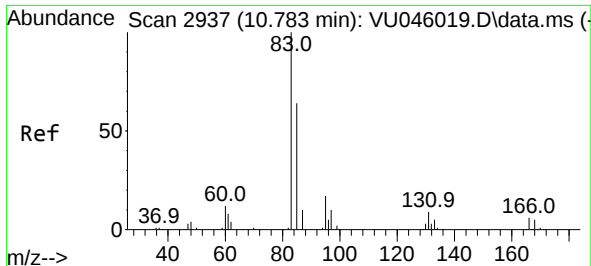
Tgt Ion:106 Resp: 550688  
Ion Ratio Lower Upper  
106 100  
91 218.0 154.2 286.4



#55  
Styrene  
Concen: 204.793 ug/L  
RT: 10.118 min Scan# 2730  
Delta R.T. 0.003 min  
Lab File: VU046021.D  
Acq: 29 Nov 2021 14:19

Tgt Ion:104 Resp: 974580  
Ion Ratio Lower Upper  
104 100  
78 46.3 32.6 60.5





#57

1,1,2,2-Tetrachloroethane

Concen: 194.197 ug/L

RT: 10.786 min Scan# 2938

Delta R.T. 0.003 min

Lab File: VU046021.D

Acq: 29 Nov 2021 14:19

Instrument :

MSVOA\_U

ClientSampleId :

VSTD200035

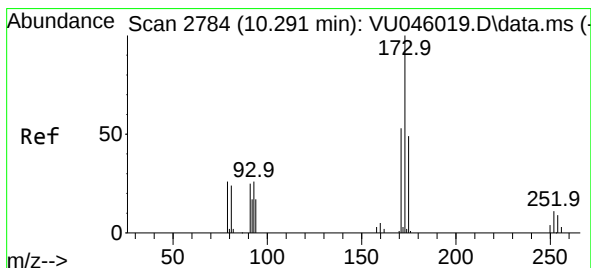
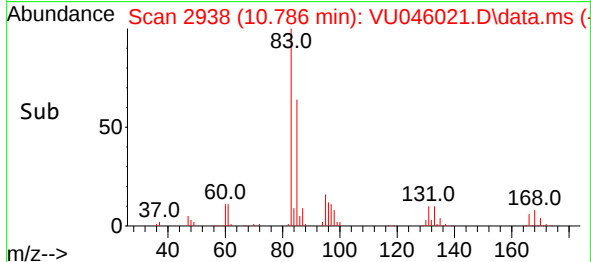
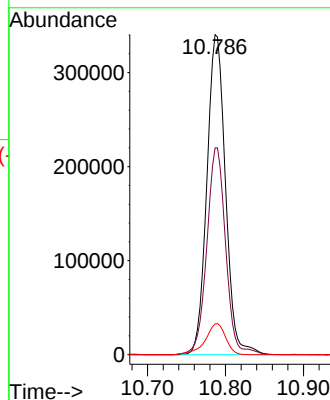
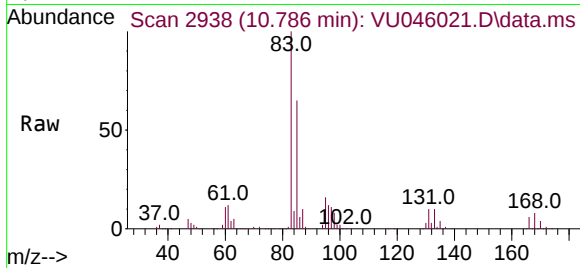
Tgt Ion: 83 Resp: 564445

Ion Ratio Lower Upper

83 100

85 64.6 45.6 84.6

131 9.6 7.8 11.6



#59

Bromoform

Concen: 215.691 ug/L

RT: 10.295 min Scan# 2785

Delta R.T. 0.003 min

Lab File: VU046021.D

Acq: 29 Nov 2021 14:19

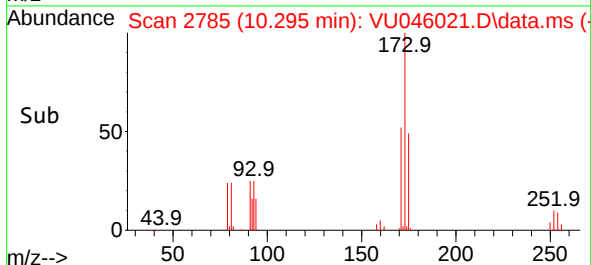
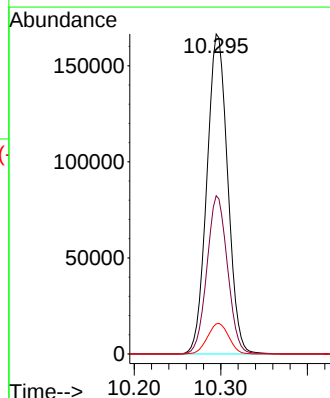
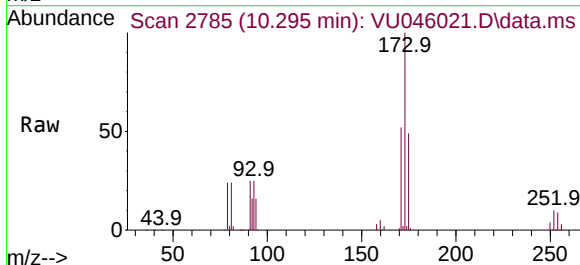
Tgt Ion:173 Resp: 277640

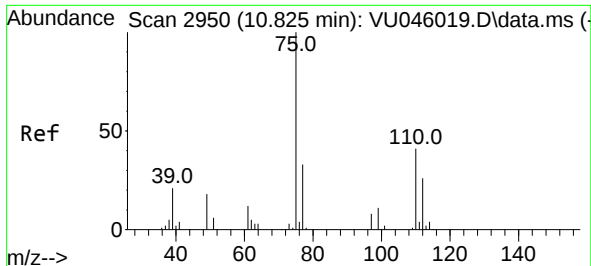
Ion Ratio Lower Upper

173 100

175 48.9 39.2 58.8

254 9.7 7.4 11.2

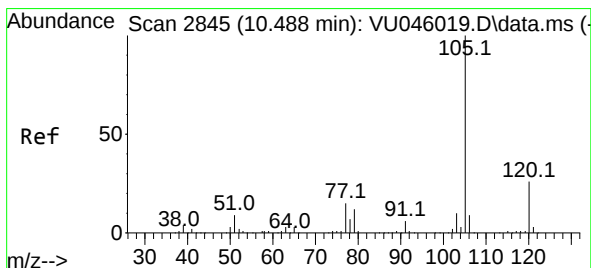
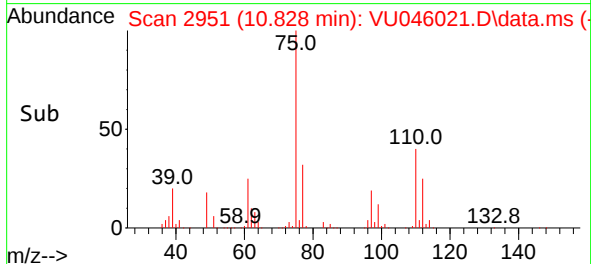
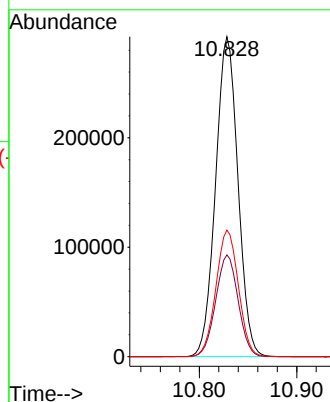
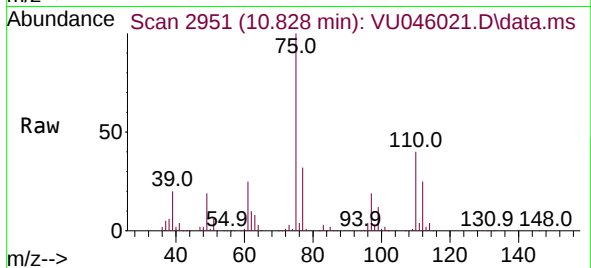




#60  
1,2,3-Trichloropropane  
Concen: 173.942 ug/L  
RT: 10.828 min Scan# 2950  
Delta R.T. 0.003 min  
Lab File: VU046021.D  
Acq: 29 Nov 2021 14:19

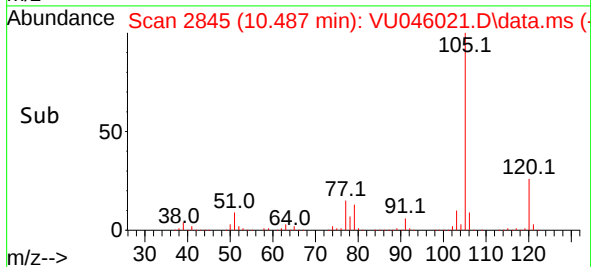
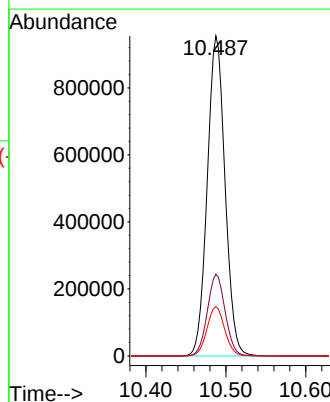
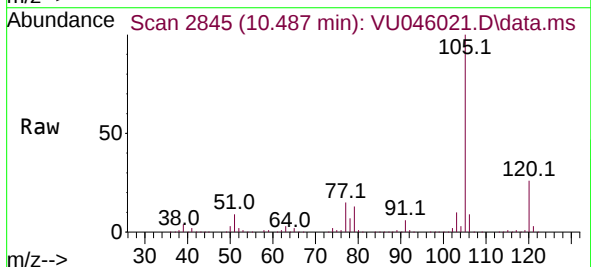
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD200035

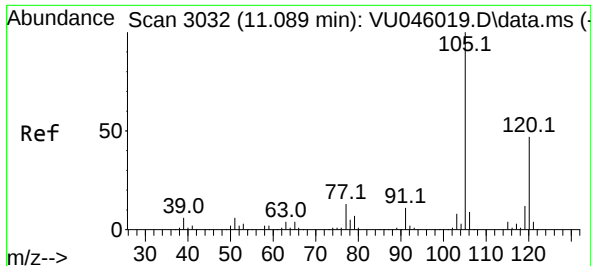
Tgt Ion: 75 Resp: 465980  
Ion Ratio Lower Upper  
75 100  
77 31.9 26.4 39.6  
110 39.8 32.4 48.6



#61  
Isopropylbenzene  
Concen: 181.406 ug/L  
RT: 10.487 min Scan# 2845  
Delta R.T. -0.000 min  
Lab File: VU046021.D  
Acq: 29 Nov 2021 14:19

Tgt Ion: 105 Resp: 1476168  
Ion Ratio Lower Upper  
105 100  
120 25.6 20.7 31.1  
77 15.4 12.2 18.4

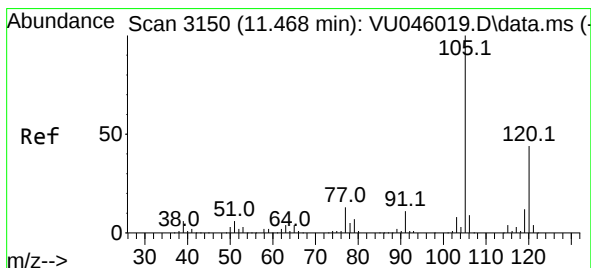
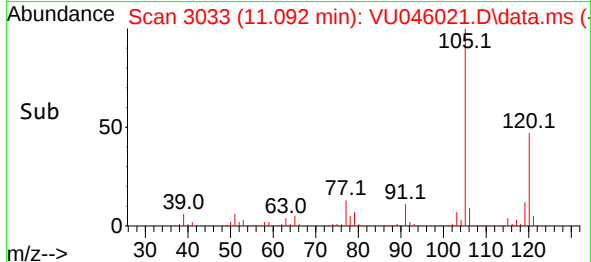
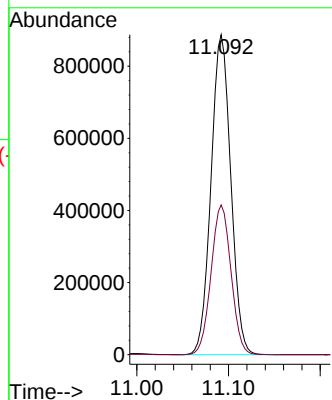
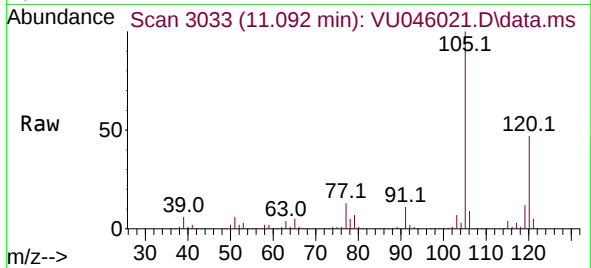




#62  
1,3,5-Trimethylbenzene  
Concen: 192.657 ug/L  
RT: 11.092 min Scan# 3032  
Delta R.T. 0.003 min  
Lab File: VU046021.D  
Acq: 29 Nov 2021 14:19

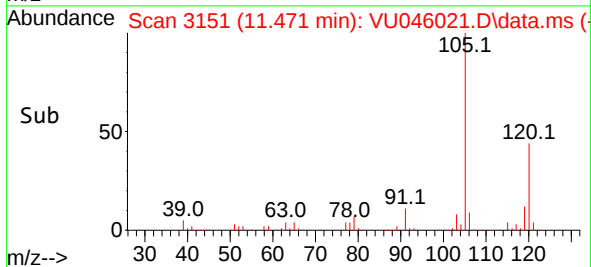
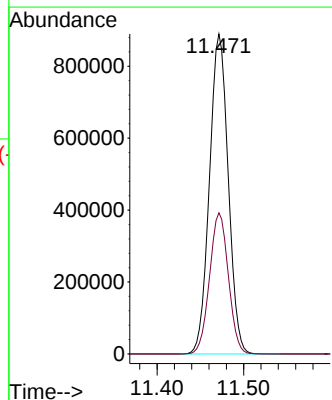
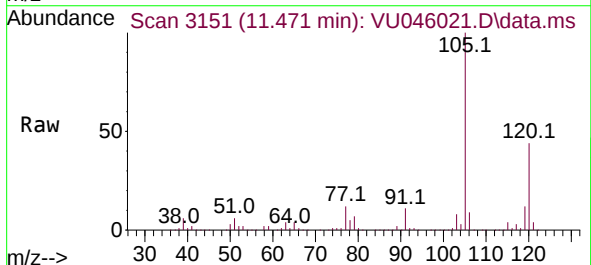
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD200035

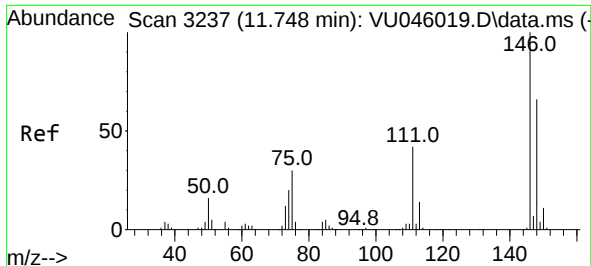
Tgt Ion:105 Resp: 1331166  
Ion Ratio Lower Upper  
105 100  
120 47.1 37.8 56.6



#63  
1,2,4-Trimethylbenzene  
Concen: 191.230 ug/L  
RT: 11.471 min Scan# 3151  
Delta R.T. 0.003 min  
Lab File: VU046021.D  
Acq: 29 Nov 2021 14:19

Tgt Ion:105 Resp: 1337101  
Ion Ratio Lower Upper  
105 100  
120 44.2 35.2 52.8

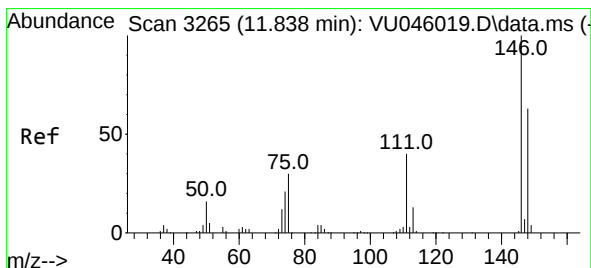
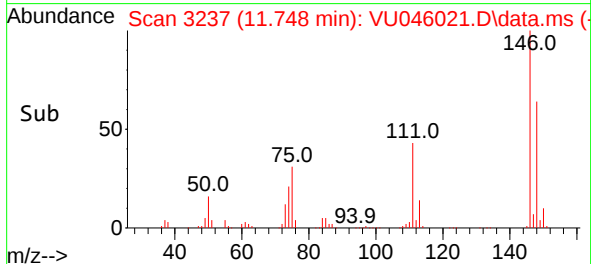
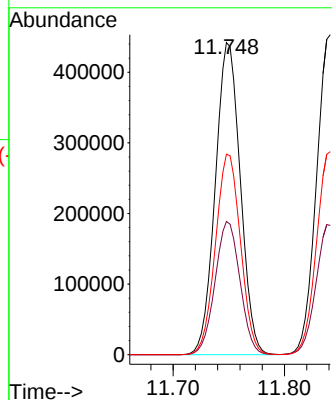
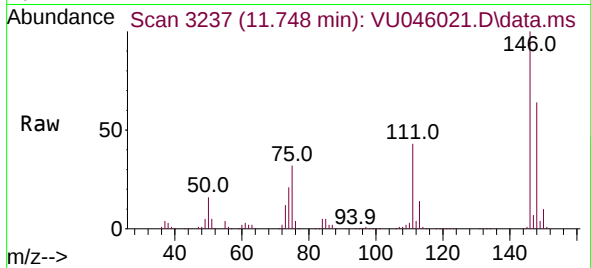




#64  
 1,3-Dichlorobenzene  
 Concen: 190.339 ug/L  
 RT: 11.748 min Scan# 31  
 Delta R.T. -0.000 min  
 Lab File: VU046021.D  
 Acq: 29 Nov 2021 14:19

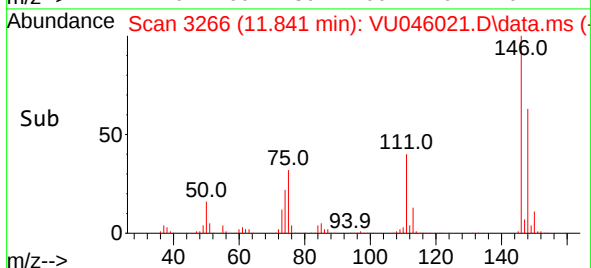
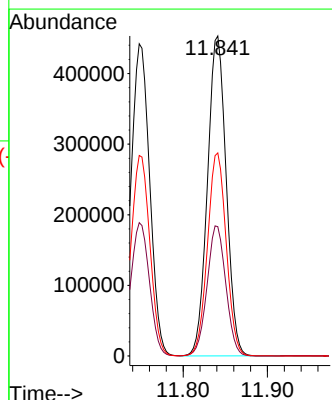
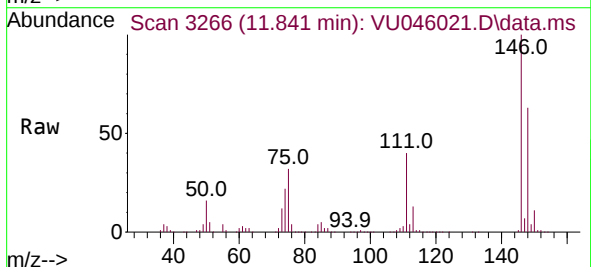
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD200035

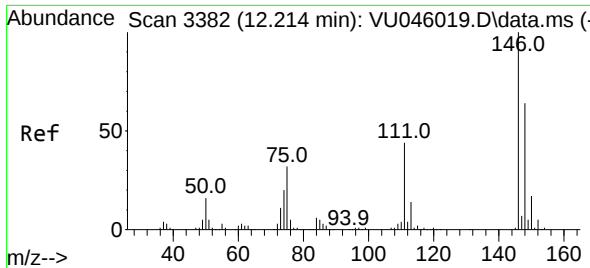
Tgt Ion:146 Resp: 690119  
 Ion Ratio Lower Upper  
 146 100  
 111 42.7 29.5 54.9  
 148 64.2 45.9 85.3



#65  
 1,4-Dichlorobenzene  
 Concen: 190.430 ug/L  
 RT: 11.841 min Scan# 3266  
 Delta R.T. 0.003 min  
 Lab File: VU046021.D  
 Acq: 29 Nov 2021 14:19

Tgt Ion:146 Resp: 700989  
 Ion Ratio Lower Upper  
 146 100  
 111 40.4 28.3 52.7  
 148 63.4 43.8 81.3

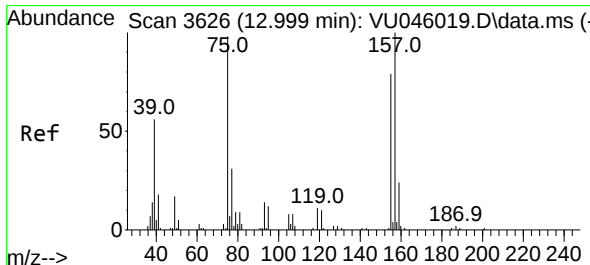
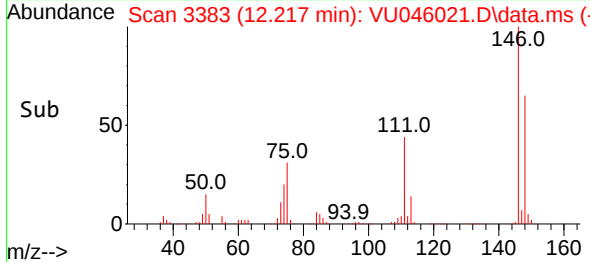
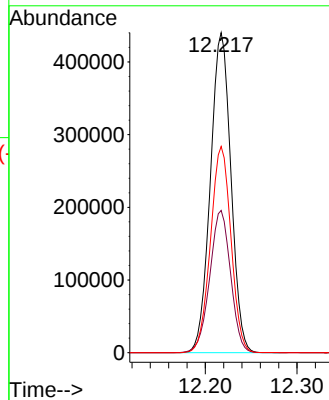
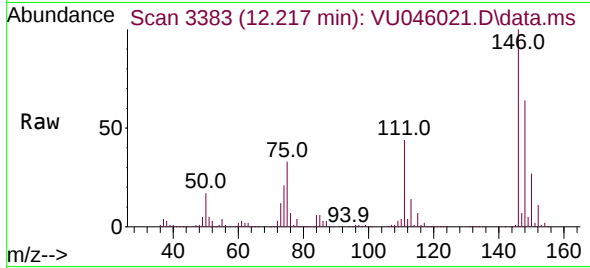




#67  
1,2-Dichlorobenzene  
Concen: 183.752 ug/L  
RT: 12.217 min Scan# 31  
Delta R.T. 0.003 min  
Lab File: VU046021.D  
Acq: 29 Nov 2021 14:19

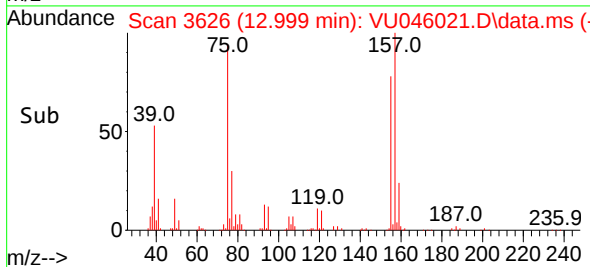
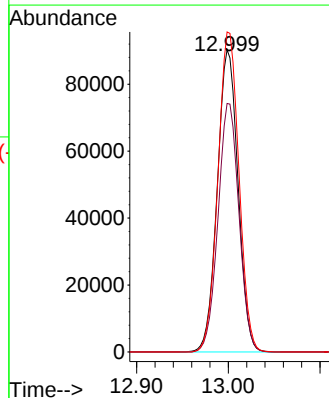
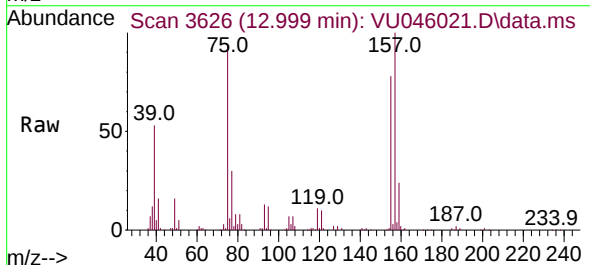
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD200035

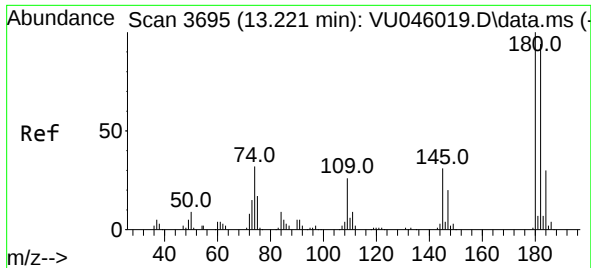
Tgt Ion:146 Resp: 684085  
Ion Ratio Lower Upper  
146 100  
111 44.4 35.7 53.5  
148 64.5 51.2 76.8



#68  
1,2-Dibromo-3-chloropropane  
Concen: 184.013 ug/L  
RT: 12.999 min Scan# 3626  
Delta R.T. -0.000 min  
Lab File: VU046021.D  
Acq: 29 Nov 2021 14:19

Tgt Ion: 75 Resp: 142179  
Ion Ratio Lower Upper  
75 100  
155 82.2 64.9 97.3  
157 105.9 81.9 122.9

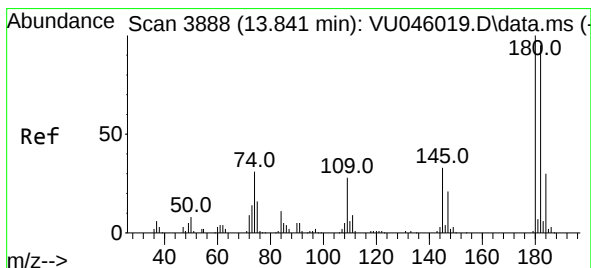
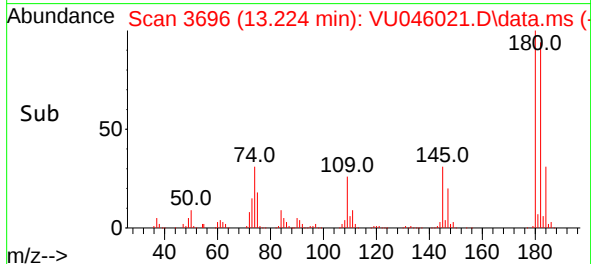
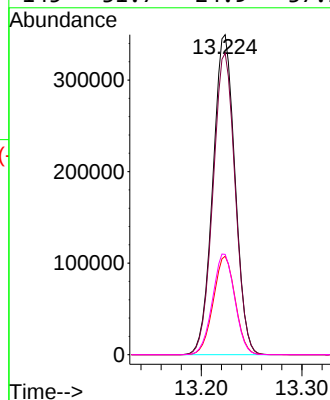
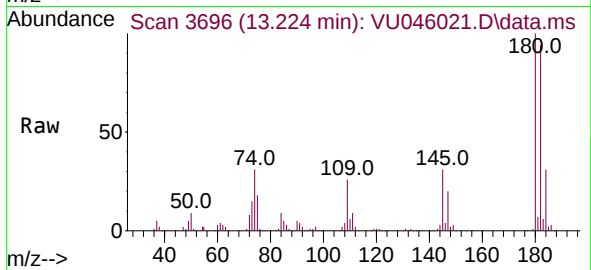




#69  
 1,3,5-Trichlorobenzene  
 Concen: 198.976 ug/L  
 RT: 13.224 min Scan# 3696  
 Delta R.T. 0.003 min  
 Lab File: VU046021.D  
 Acq: 29 Nov 2021 14:19

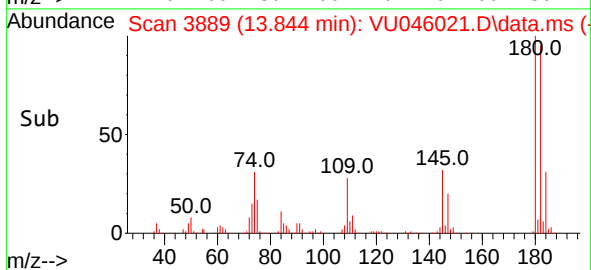
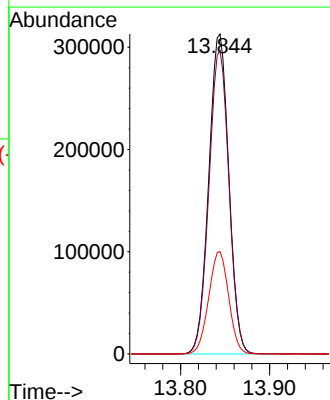
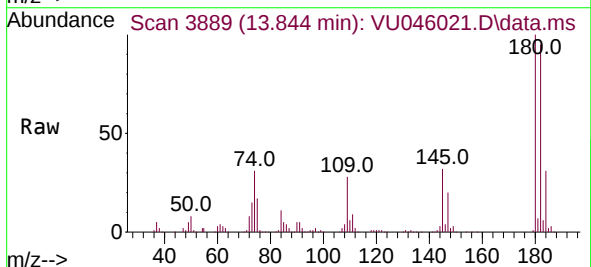
Instrument :  
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 ClientSampleId :  
 VSTD200035

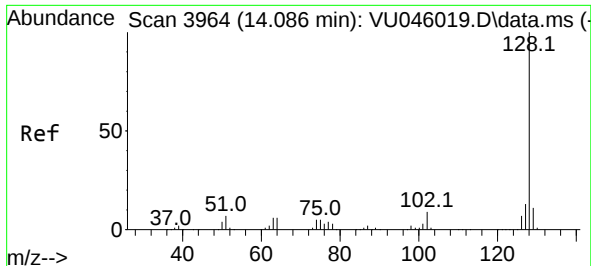
Tgt Ion:180 Resp: 533450  
 Ion Ratio Lower Upper  
 180 100  
 182 94.4 75.9 113.9  
 184 30.5 24.2 36.4  
 145 31.7 24.9 37.3



#70  
 1,2,4-trichlorobenzene  
 Concen: 200.790 ug/L  
 RT: 13.844 min Scan# 3889  
 Delta R.T. 0.003 min  
 Lab File: VU046021.D  
 Acq: 29 Nov 2021 14:19

Tgt Ion:180 Resp: 489374  
 Ion Ratio Lower Upper  
 180 100  
 182 94.7 76.7 115.1  
 145 31.8 26.0 39.0

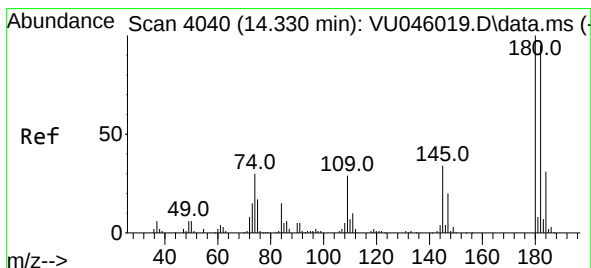
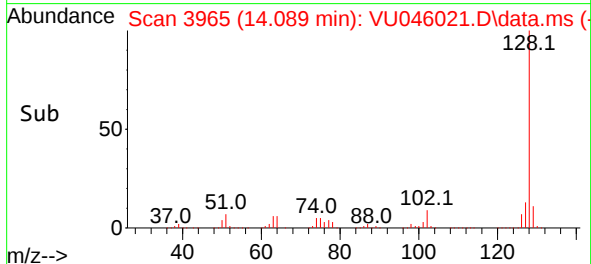
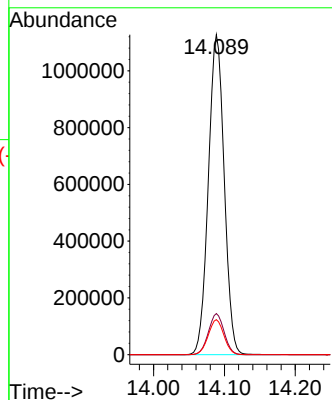
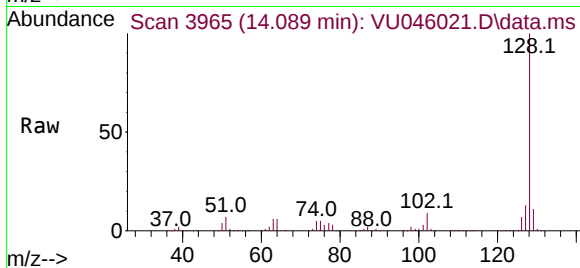




#71  
Naphthalene  
Concen: 190.664 ug/L  
RT: 14.089 min Scan# 3964  
Delta R.T. 0.003 min  
Lab File: VU046021.D  
Acq: 29 Nov 2021 14:19

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD200035

Tgt Ion:128 Resp: 1747462  
Ion Ratio Lower Upper  
128 100  
127 12.7 10.1 15.1  
129 10.9 8.6 13.0



#72  
1,2,3-Trichlorobenzene  
Concen: 190.833 ug/L  
RT: 14.333 min Scan# 4041  
Delta R.T. 0.003 min  
Lab File: VU046021.D  
Acq: 29 Nov 2021 14:19

Tgt Ion:180 Resp: 476284  
Ion Ratio Lower Upper  
180 100  
182 95.5 76.0 114.0  
145 33.7 27.3 40.9

