

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U102620\  
 Data File : VU040939.D  
 Acq On : 26 Oct 2020 12:46  
 Operator : SY/MD  
 Sample : VSTDICV005  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VICV06

Quant Time: Oct 27 03:14:30 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR102620WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Oct 27 03:00:07 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.26  | 114  | 84180    | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.42  | 117  | 82428    | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.81 | 152  | 41346    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.60   | 65    | 29633    | 4.19     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 83.80% |
| 7) Chloroethane-d5             | 1.92   | 69    | 23328    | 4.29     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 85.80% |
| 11) 1,1-Dichloroethene-d2      | 2.58   | 63    | 58878    | 4.24     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 84.80% |
| 20) 2-Butanone-d5              | 4.66   | 46    | 105787   | 45.42    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 90.84% |
| 24) Chloroform-d               | 5.08   | 84    | 52395    | 4.19     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 83.80% |
| 26) 1,2-Dichloroethane-d4      | 5.72   | 65    | 31564    | 4.07     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 81.40% |
| 32) Benzene-d6                 | 5.74   | 84    | 97323    | 4.41     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 88.20% |
| 36) 1,2-Dichloropropane-d6     | 6.70   | 67    | 32634    | 4.55     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 91.00% |
| 41) Toluene-d8                 | 7.90   | 98    | 89053    | 4.46     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 89.20% |
| 43) trans-1,3-Dichloropropene- | 8.19   | 79    | 14159    | 4.55     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 91.00% |
| 46) 2-Hexanone-d5              | 8.64   | 63    | 81207    | 48.48    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 96.96% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.75  | 84    | 29803    | 4.47     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 89.40% |
| 64) 1,2-Dichlorobenzene-d4     | 12.19  | 152   | 32181    | 4.44     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 88.80% |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc   | Units  | Ovalue |
|--------------------------------|------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.39 | 85   | 32011    | 4.165  | ug/L   | 97     |
| 3) Chloromethane               | 1.53 | 50   | 34518    | 4.307  | ug/L   | 100    |
| 5) Vinyl chloride              | 1.61 | 62   | 34621    | 4.379  | ug/L   | 100    |
| 6) Bromomethane                | 1.87 | 94   | 19723    | 4.352  | ug/L   | 99     |
| 8) Chloroethane                | 1.94 | 64   | 21070    | 4.206  | ug/L   | 97     |
| 9) Trichlorofluoromethane      | 2.15 | 101  | 45172    | 4.204  | ug/L   | 98     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.59 | 101  | 27094    | 4.302  | ug/L   | 99     |
| 12) 1,1-Dichloroethene         | 2.59 | 96   | 25458    | 4.281  | ug/L   | 97     |
| 13) Acetone                    | 2.68 | 43   | 22267    | 13.985 | ug/L # | 1      |
| 14) Carbon disulfide           | 2.81 | 76   | 85018    | 4.279  | ug/L   | 99     |
| 15) Methyl Acetate             | 2.97 | 43   | 16627    | 4.564  | ug/L   | 94     |
| 16) Methylene chloride         | 3.06 | 84   | 28610    | 4.129  | ug/L   | 96     |
| 17) Methyl tert-butyl Ether    | 3.38 | 73   | 70135    | 4.583  | ug/L   | 99     |
| 18) trans-1,2-Dichloroethene   | 3.37 | 96   | 26008    | 4.304  | ug/L   | 98     |
| 19) 1,1-Dichloroethane         | 3.89 | 63   | 51713    | 4.281  | ug/L   | 99     |
| 21) 2-Butanone                 | 4.74 | 43   | 115886   | 46.568 | ug/L   | 99     |
| 22) cis-1,2-Dichloroethene     | 4.68 | 96   | 27774    | 4.456  | ug/L   | 99     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU102620\  
 Data File : VU040939.D  
 Acq On : 26 Oct 2020 12:46  
 Operator : SY/MD  
 Sample : VSTDICV005  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 7 Sample Multiplier: 1

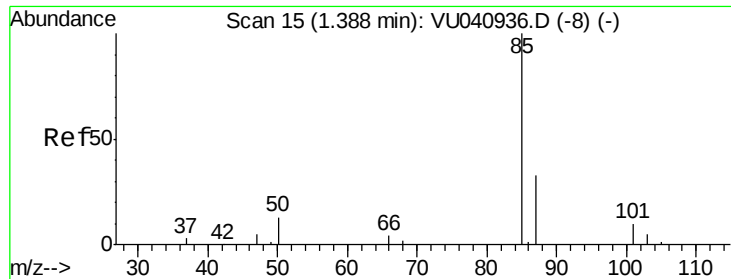
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VICV06

Quant Time: Oct 27 03:14:30 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR102620WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Oct 27 03:00:07 2020  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 4.99  | 128  | 13005    | 4.422  | ug/L  | 96       |
| 25) Chloroform                  | 5.11  | 83   | 51667    | 4.265  | ug/L  | 97       |
| 27) 1,2-Dichloroethane          | 5.81  | 62   | 39469    | 4.374  | ug/L  | 98       |
| 29) 1,1,1-Trichloroethane       | 5.33  | 97   | 43996    | 4.364  | ug/L  | 97       |
| 30) Cyclohexane                 | 5.41  | 56   | 47108    | 4.743  | ug/L  | 99       |
| 31) Carbon tetrachloride        | 5.54  | 117  | 38520    | 4.315  | ug/L  | 98       |
| 33) Benzene                     | 5.79  | 78   | 110977   | 4.506  | ug/L  | 100      |
| 34) Trichloroethene             | 6.55  | 95   | 28355    | 4.524  | ug/L  | 97       |
| 35) Methylcyclohexane           | 6.77  | 83   | 43838    | 4.689  | ug/L  | 98       |
| 37) 1,2-Dichloropropane         | 6.80  | 63   | 29400    | 4.412  | ug/L  | 99       |
| 38) Bromodichloromethane        | 7.12  | 83   | 38393    | 4.441  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene     | 7.62  | 75   | 42061    | 4.584  | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone        | 7.80  | 43   | 254028   | 47.806 | ug/L  | 100      |
| 42) Toluene                     | 7.98  | 91   | 114782   | 4.596  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene   | 8.21  | 75   | 39999    | 4.658  | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane       | 8.41  | 97   | 21948    | 4.424  | ug/L  | 93       |
| 47) Tetrachloroethene           | 8.56  | 164  | 20721    | 4.496  | ug/L  | 94       |
| 48) 2-Hexanone                  | 8.69  | 43   | 189947   | 47.475 | ug/L  | 99       |
| 49) Dibromochloromethane        | 8.82  | 129  | 25477    | 4.422  | ug/L  | 94       |
| 50) 1,2-Dibromoethane           | 8.93  | 107  | 21389    | 4.524  | ug/L  | 99       |
| 51) Chlorobenzene               | 9.45  | 112  | 70796    | 4.470  | ug/L  | 100      |
| 52) Ethylbenzene                | 9.57  | 91   | 120842   | 4.597  | ug/L  | 99       |
| 53) m,p-Xylene                  | 9.69  | 106  | 44902    | 4.683  | ug/L  | 98       |
| 54) o-Xylene                    | 10.10 | 106  | 42741    | 4.787  | ug/L  | 95       |
| 55) Styrene                     | 10.11 | 104  | 76644    | 4.818  | ug/L  | 99       |
| 56) Isopropylbenzene            | 10.48 | 105  | 116645   | 4.858  | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.78 | 83   | 29875    | 4.585  | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane      | 10.82 | 75   | 22340    | 4.498  | ug/L  | 100      |
| 61) Bromoform                   | 10.29 | 173  | 14694    | 4.612  | ug/L  | 97       |
| 62) 1,3-Dichlorobenzene         | 11.74 | 146  | 56800    | 4.759  | ug/L  | 97       |
| 63) 1,4-Dichlorobenzene         | 11.83 | 146  | 57387    | 4.643  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 12.20 | 146  | 53482    | 4.541  | ug/L  | 97       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.99 | 75   | 5309     | 4.599  | ug/L  | 92       |
| 67) 1,3,5-Trichlorobenzene      | 13.21 | 180  | 38985    | 4.671  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.83 | 180  | 34429    | 4.979  | ug/L  | 98       |
| 69) Naphthalene                 | 14.08 | 128  | 66095    | 5.346  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 14.32 | 180  | 34295    | 5.381  | ug/L  | 94       |

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





#2

Dichlorodifluoromethane

Concen: 4.165 ug/L

RT: 1.39 min Scan# 15

Delta R.T. -0.00 min

Lab File: VU040939.D

Acq: 26 Oct 2020 12:46

Instrument :

MSVOA\_U

ClientSampleId :

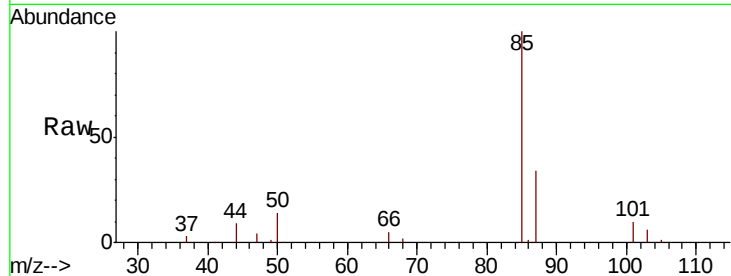
VICV06

Tot Ion: 85 Resp: 32011

Ion Ratio Lower Upper

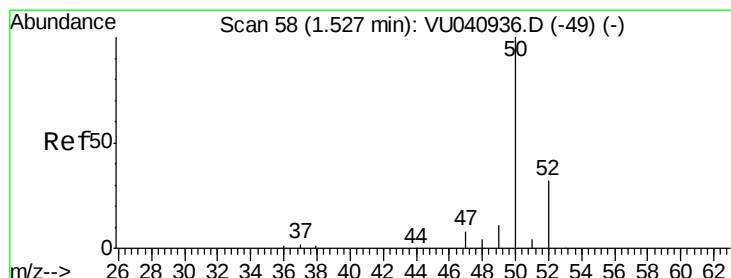
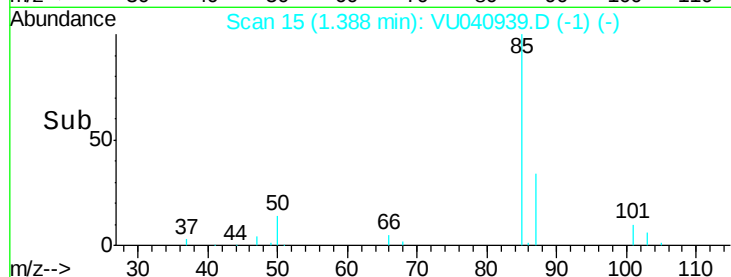
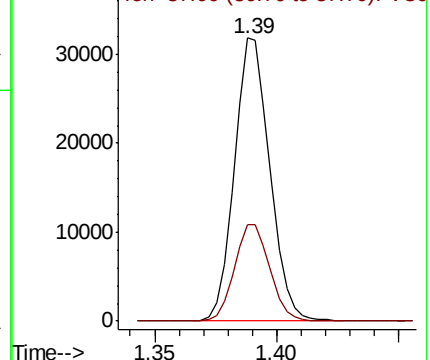
85 100

87 33.9 25.8 38.8



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 4.307 ug/L

RT: 1.53 min Scan# 58

Delta R.T. -0.00 min

Lab File: VU040939.D

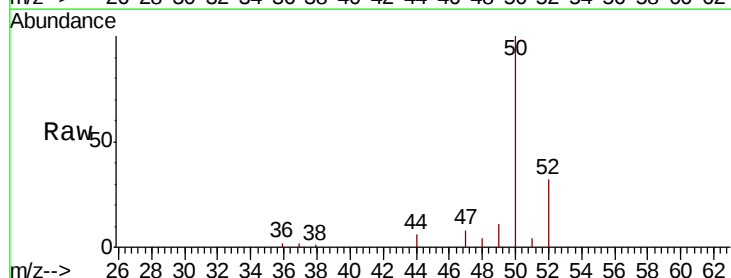
Acq: 26 Oct 2020 12:46

Tgt Ion: 50 Resp: 34518

Ion Ratio Lower Upper

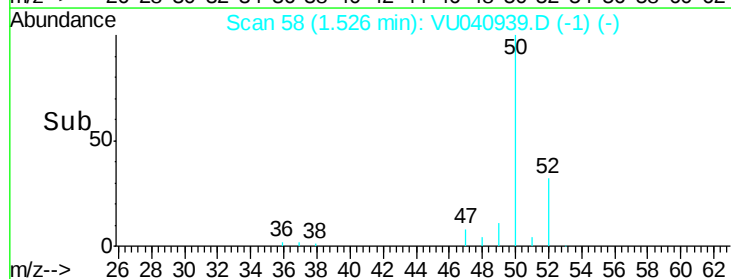
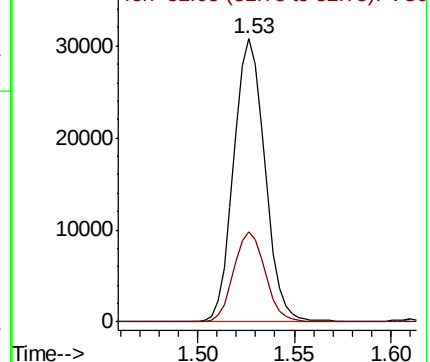
50 100

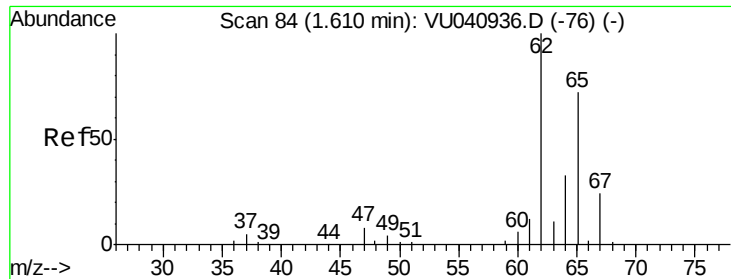
52 31.7 22.4 41.6



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0





#5

Vinyl chloride

Concen: 4.379 ug/L

RT: 1.61 min Scan# 84

Delta R.T. -0.00 min

Lab File: VU040939.D

Acq: 26 Oct 2020 12:46

Instrument :

MSVOA\_U

ClientSampled :

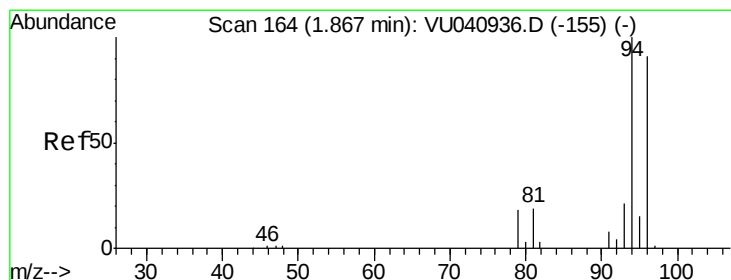
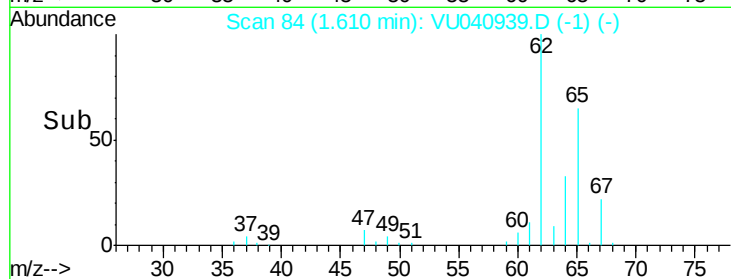
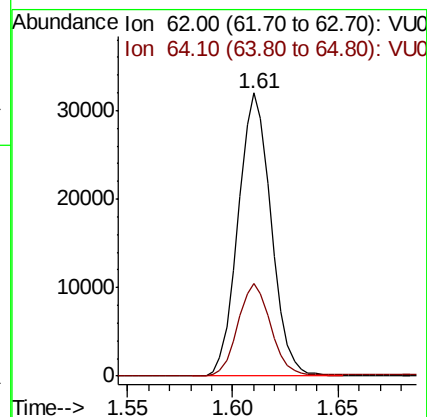
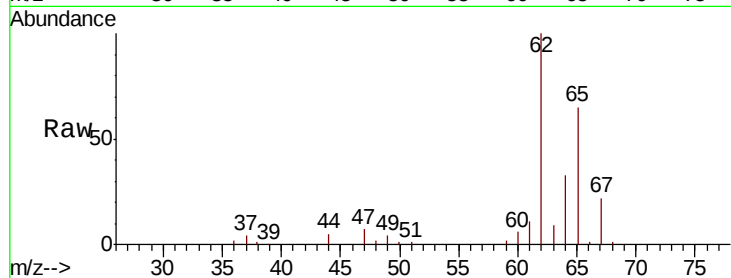
VICV06

Tot Ion: 62 Resp: 34621

Ion Ratio Lower Upper

62 100

64 32.6 22.7 42.3



#6

Bromomethane

Concen: 4.352 ug/L

RT: 1.87 min Scan# 164

Delta R.T. -0.00 min

Lab File: VU040939.D

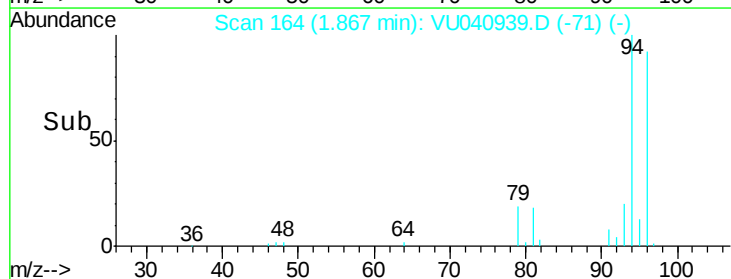
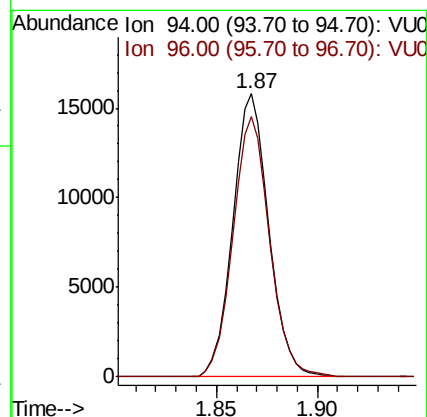
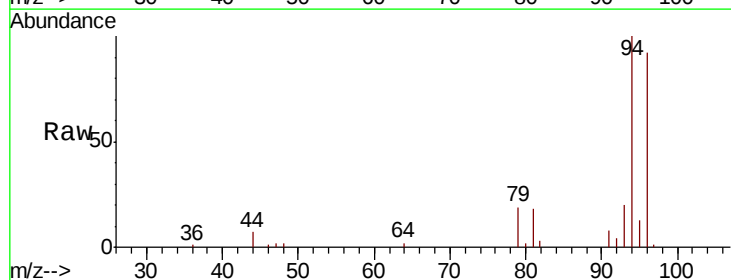
Acq: 26 Oct 2020 12:46

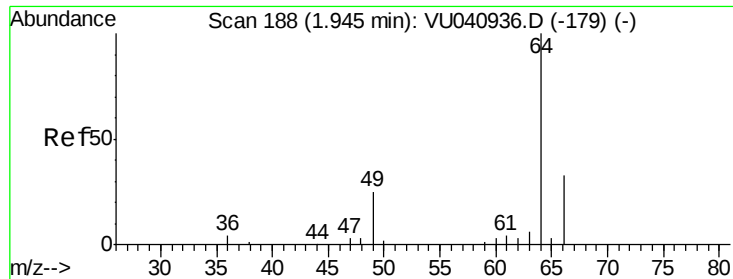
Tgt Ion: 94 Resp: 19723

Ion Ratio Lower Upper

94 100

96 92.0 63.5 117.9

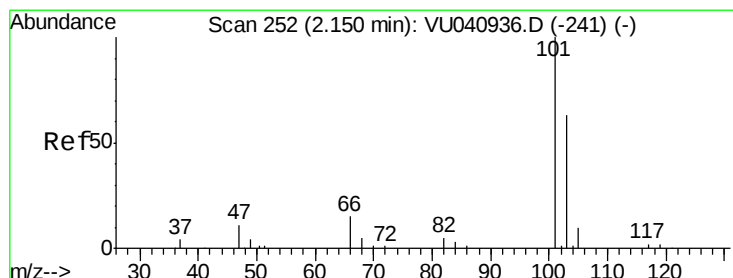
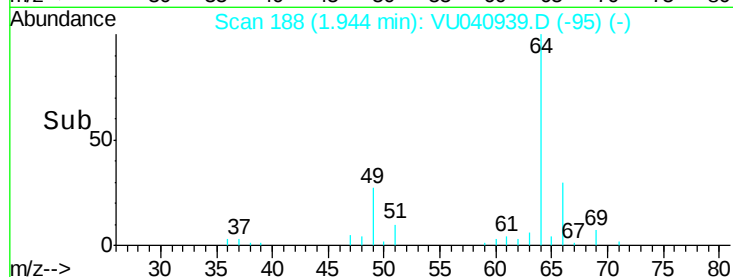
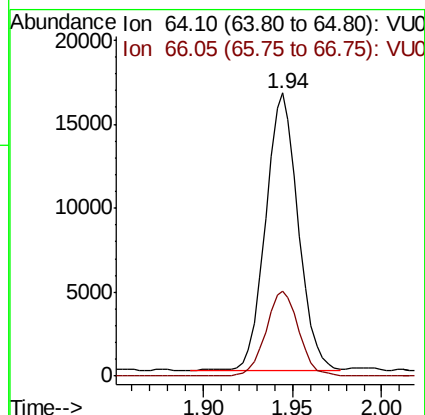
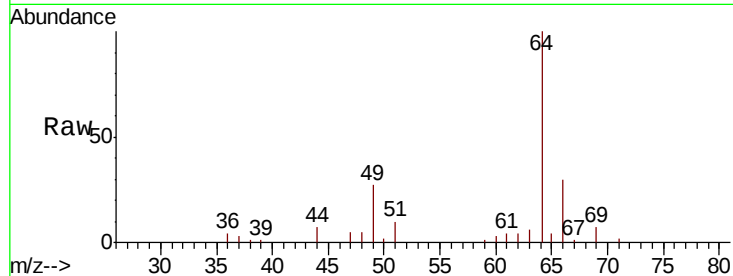




#8  
Chloroethane  
Concen: 4.206 ug/L  
RT: 1.94 min Scan# 188  
Delta R.T. -0.00 min  
Lab File: VU040939.D  
Acq: 26 Oct 2020 12:46

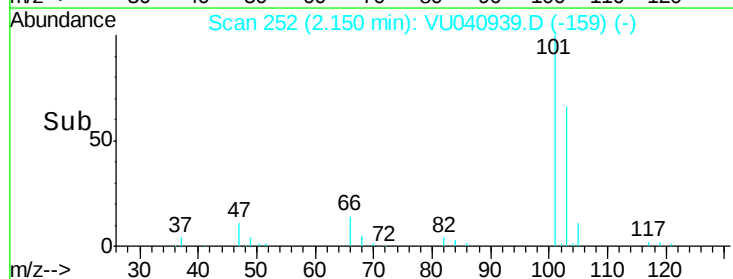
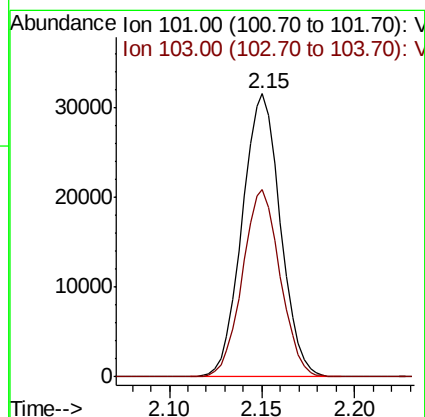
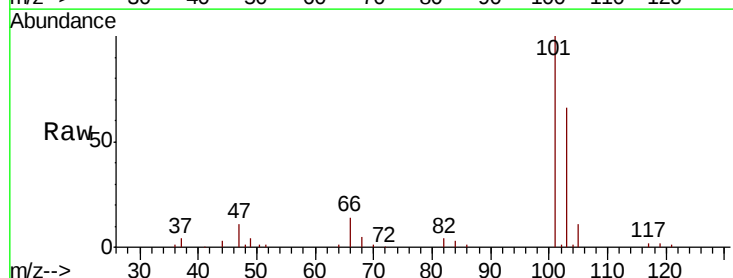
Instrument :  
MSVOA\_U  
ClientSampleId :  
VICV06

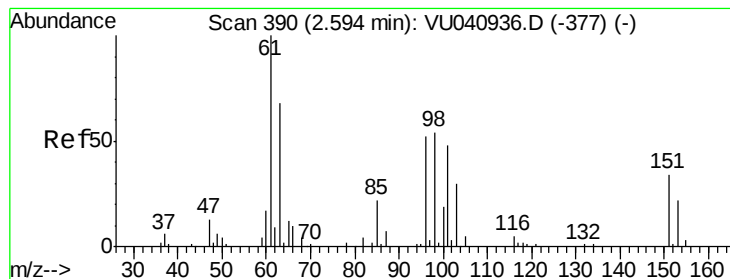
Tot Ion: 64 Resp: 21070  
Ion Ratio Lower Upper  
64 100  
66 30.1 22.3 41.5



#9  
Trichlorofluoromethane  
Concen: 4.204 ug/L  
RT: 2.15 min Scan# 252  
Delta R.T. -0.00 min  
Lab File: VU040939.D  
Acq: 26 Oct 2020 12:46

Tgt Ion: 101 Resp: 45172  
Ion Ratio Lower Upper  
101 100  
103 65.2 51.0 76.4





#10

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

Concen: 4.302 ug/L

RT: 2.59 min Scan# 390

Delta R.T. -0.00 min

Lab File: VU040939.D

Acq: 26 Oct 2020 12:46

Instrument :

MSVOA\_U

ClientSampleId :

VICV06

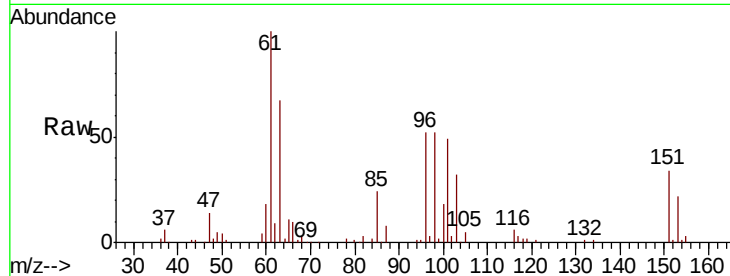
Tot Ion:101 Resp: 27094

Ion Ratio Lower Upper

101 100

85 45.5 35.0 52.4

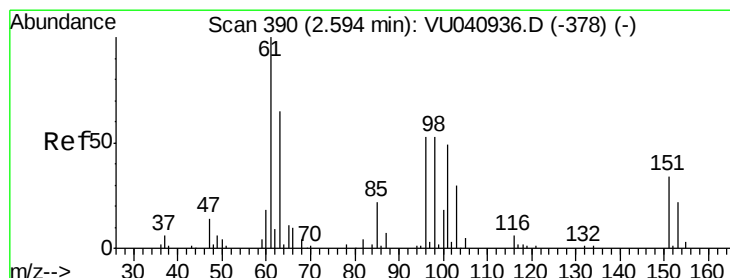
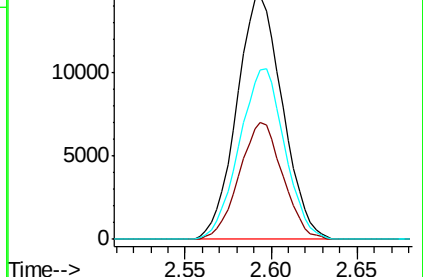
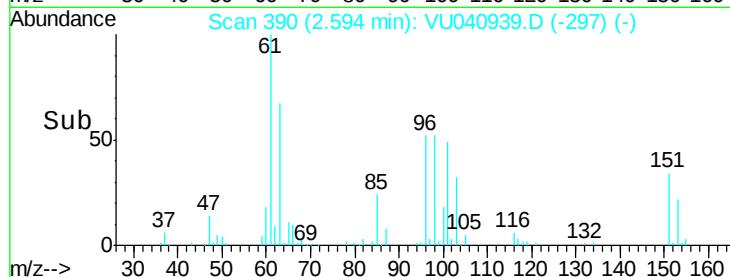
151 69.4 55.3 82.9



Abundance Ion 101.00 (100.70 to 101.70): VU040939.D (-297) (-)

Ion 85.00 (84.70 to 85.70): VU040939.D (-297) (-)

Ion 151.00 (150.70 to 151.70): VU040939.D (-297) (-)



#12

1,1-Dichloroethene

Concen: 4.281 ug/L

RT: 2.59 min Scan# 390

Delta R.T. -0.00 min

Lab File: VU040939.D

Acq: 26 Oct 2020 12:46

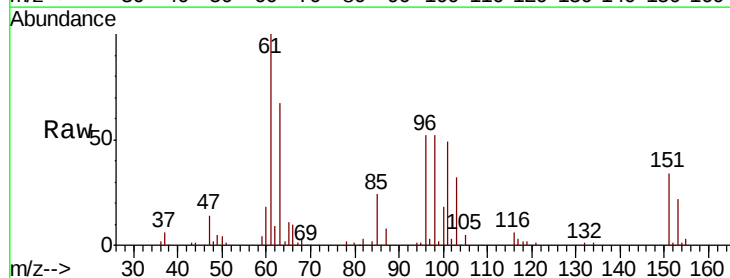
Tgt Ion: 96 Resp: 25458

Ion Ratio Lower Upper

96 100

61 190.8 134.3 249.5

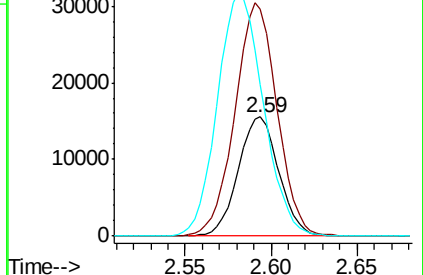
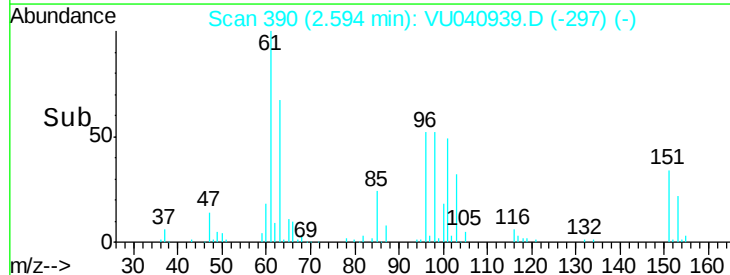
63 127.0 95.0 176.4

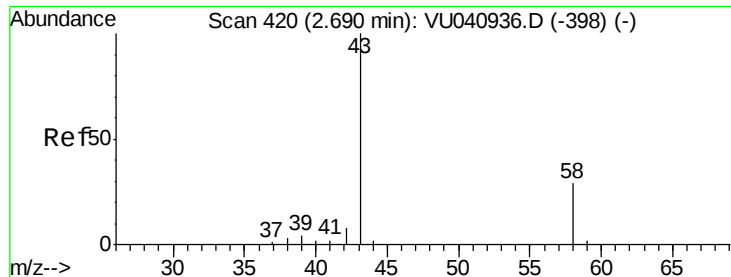


Abundance Ion 96.00 (95.70 to 96.70): VU040939.D (-297) (-)

Ion 61.05 (60.75 to 61.75): VU040939.D (-297) (-)

Ion 63.00 (62.70 to 63.70): VU040939.D (-297) (-)





#13

Acetone

Concen: 13.985 ug/L

RT: 2.68 min Scan# 416

Delta R.T. -0.01 min

Lab File: VU040939.D

Acq: 26 Oct 2020 12:46

Instrument :

MSVOA\_U

ClientSampleId :

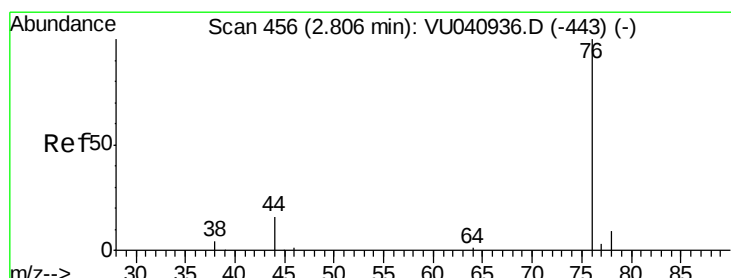
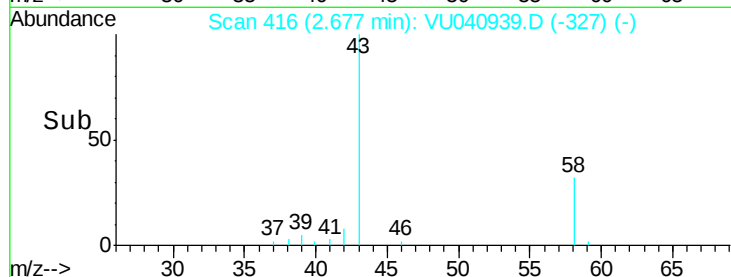
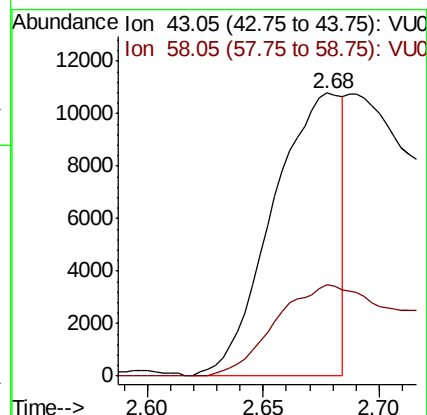
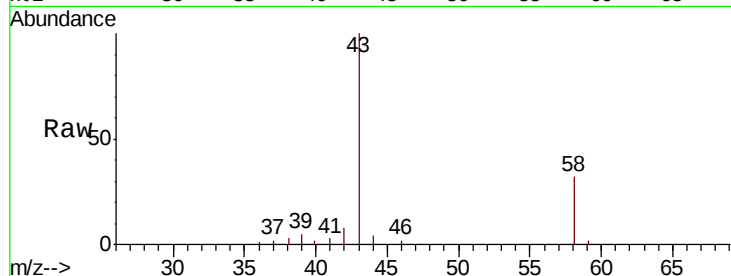
VICV06

Tot Ion: 43 Resp: 22267

Ion Ratio Lower Upper

43 100

58 82.5 0.0 25.4#



#14

Carbon disulfide

Concen: 4.279 ug/L

RT: 2.81 min Scan# 456

Delta R.T. -0.00 min

Lab File: VU040939.D

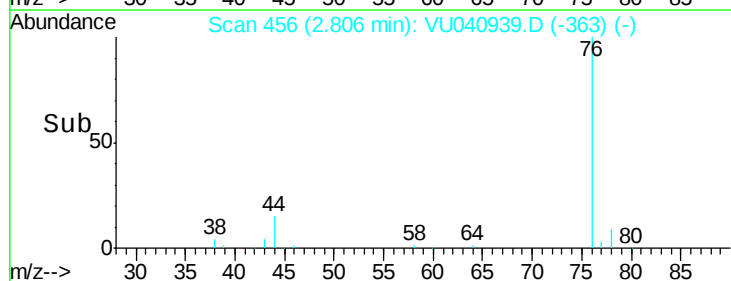
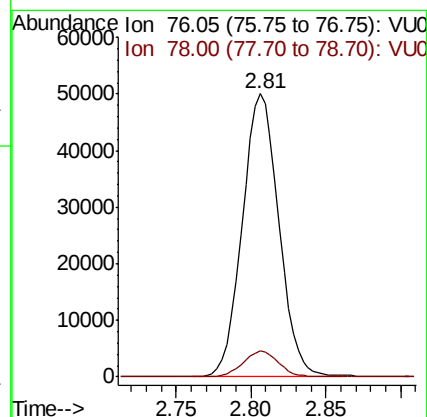
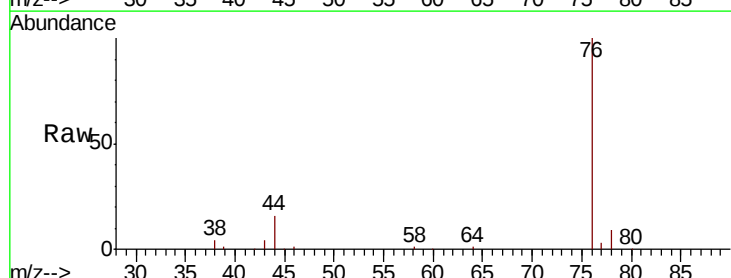
Acq: 26 Oct 2020 12:46

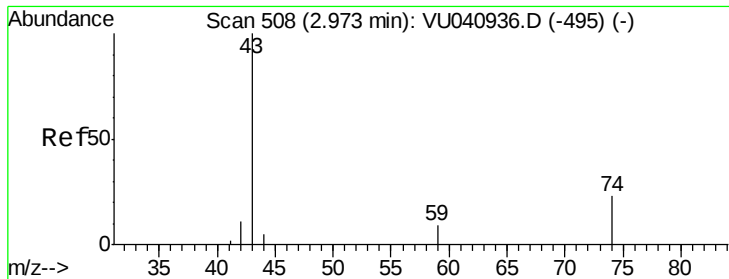
Tgt Ion: 76 Resp: 85018

Ion Ratio Lower Upper

76 100

78 9.0 7.5 11.3





#15

Methyl Acetate

Concen: 4.564 ug/L

RT: 2.97 min Scan# 508

Delta R.T. -0.00 min

Lab File: VU040939.D

Acq: 26 Oct 2020 12:46

Instrument :

MSVOA\_U

ClientSampleId :

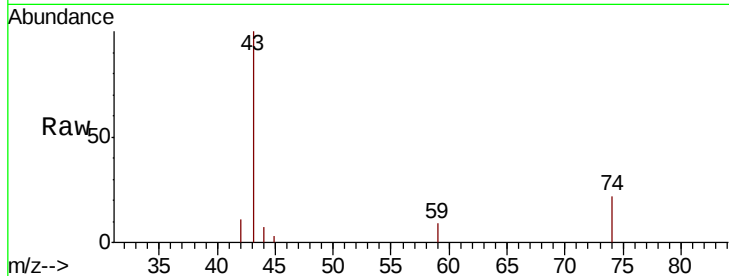
VICV06

Tot Ion: 43 Resp: 16627

Ion Ratio Lower Upper

43 100

74 19.8 18.3 27.5



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 74.05 (73.75 to 74.75): VU0

2.97

6000

5000

4000

3000

2000

1000

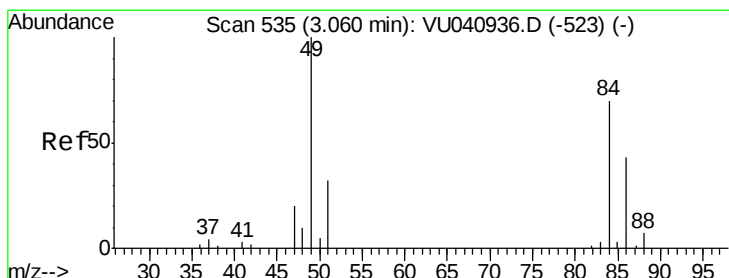
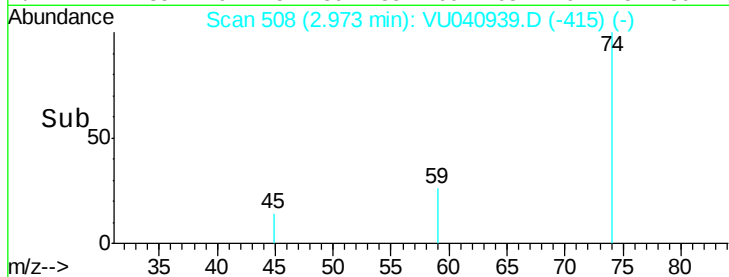
0

Time-->

2.90

3.00

3.10



#16

Methylene chloride

Concen: 4.129 ug/L

RT: 3.06 min Scan# 535

Delta R.T. -0.00 min

Lab File: VU040939.D

Acq: 26 Oct 2020 12:46

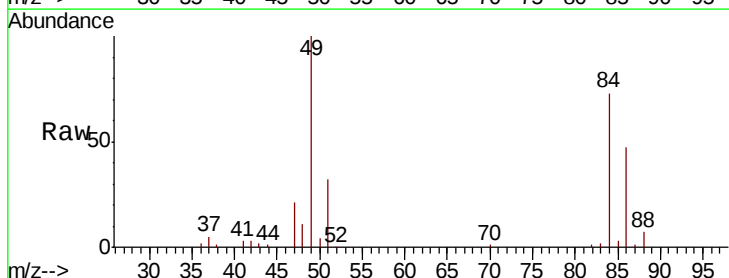
Tgt Ion: 84 Resp: 28610

Ion Ratio Lower Upper

84 100

86 63.7 42.8 79.6

49 136.5 99.5 184.7



Abundance Ion 84.05 (83.75 to 84.75): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.10 (48.80 to 49.80): VU0

3.06

25000

20000

15000

10000

5000

0

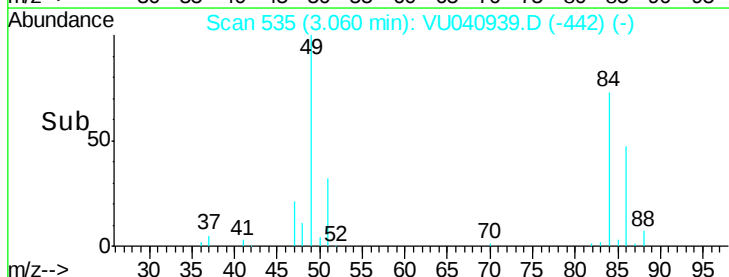
Time-->

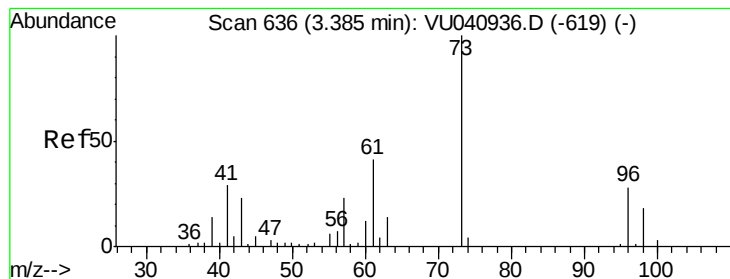
3.00

3.05

3.10

3.15



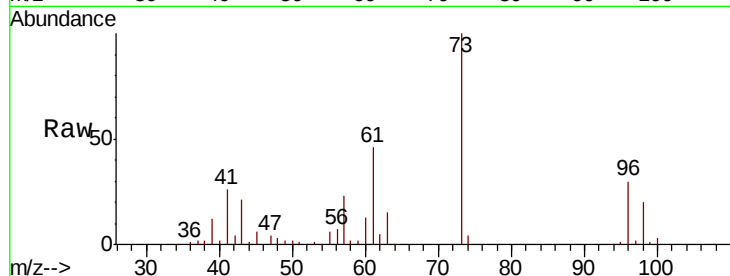


#17

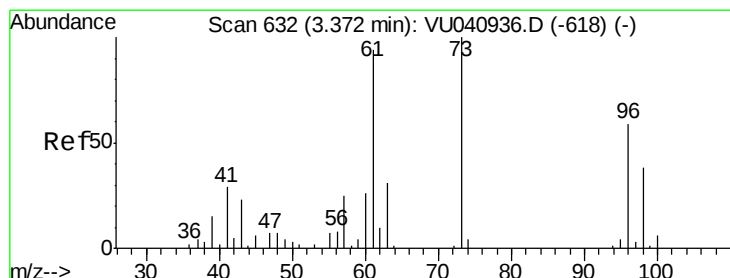
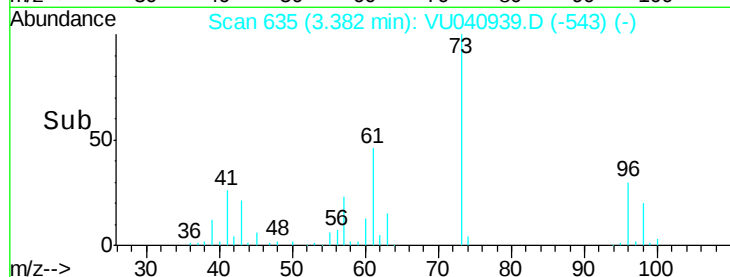
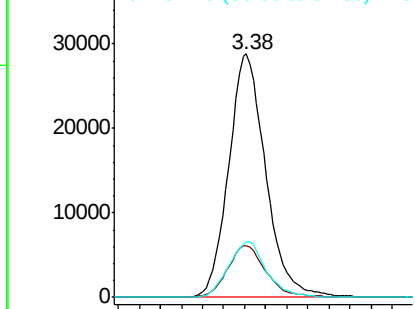
Methvl tert-butvl Ether  
 Concen: 4.583 ug/L  
 RT: 3.38 min Scan# 635  
 Delta R.T. -0.00 min  
 Lab File: VU040939.D  
 Acq: 26 Oct 2020 12:46

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VICV06

Tot Ion: 73 Resp: 70135  
 Ion Ratio Lower Upper  
 73 100  
 43 22.1 18.5 27.7  
 57 23.3 18.4 27.6



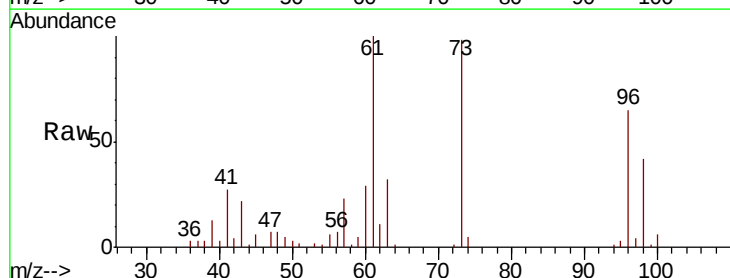
Abundance Ion 73.10 (72.80 to 73.80): VU0  
 Ion 43.05 (42.75 to 43.75): VU0  
 Ion 57.10 (56.80 to 57.80): VU0



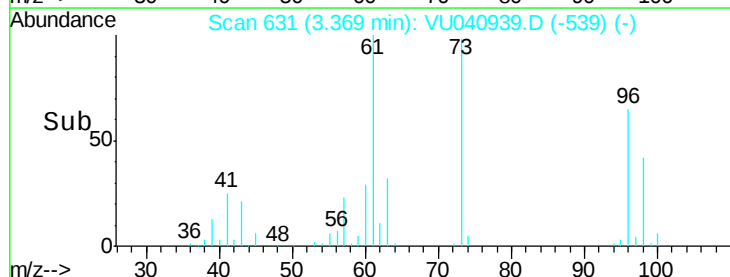
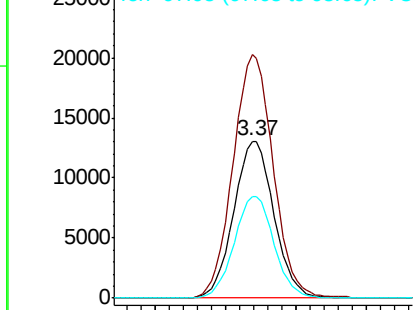
#18

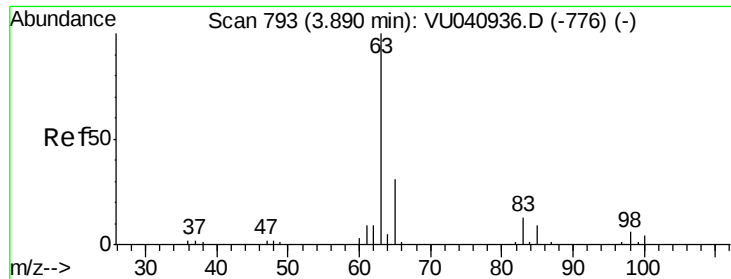
trans-1,2-Dichloroethene  
 Concen: 4.304 ug/L  
 RT: 3.37 min Scan# 631  
 Delta R.T. -0.00 min  
 Lab File: VU040939.D  
 Acq: 26 Oct 2020 12:46

Tgt Ion: 96 Resp: 26008  
 Ion Ratio Lower Upper  
 96 100  
 61 155.0 110.9 205.9  
 98 65.0 45.4 84.2



Abundance Ion 96.00 (95.70 to 96.70): VU0  
 Ion 61.05 (60.75 to 61.75): VU0  
 Ion 97.95 (97.65 to 98.65): VU0

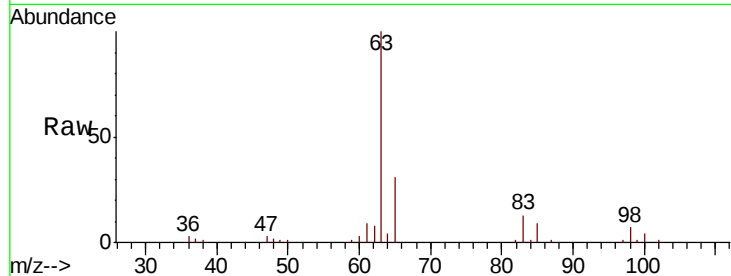




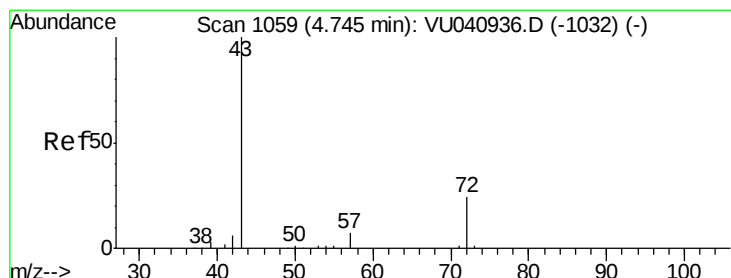
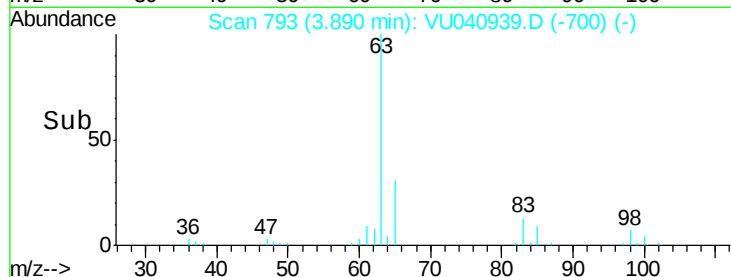
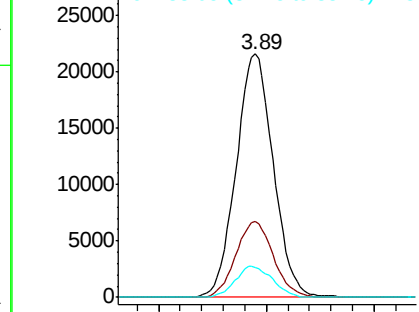
#19  
 1,1-Dichloroethane  
 Concen: 4.281 ug/L  
 RT: 3.89 min Scan# 793  
 Delta R.T. -0.00 min  
 Lab File: VU040939.D  
 Acq: 26 Oct 2020 12:46

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VICV06

Tot Ion: 63 Resp: 51713  
 Ion Ratio Lower Upper  
 63 100  
 65 31.3 21.3 39.6  
 83 12.5 8.8 16.3

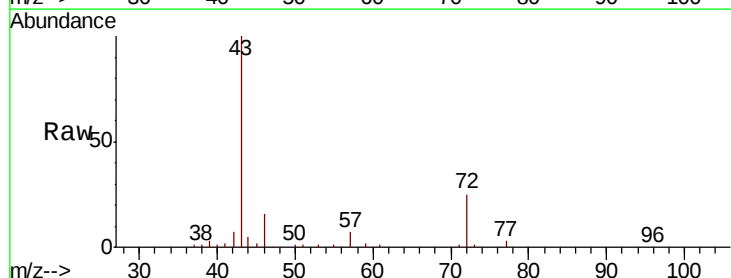


Abundance Ion 63.10 (62.80 to 63.80): VU0  
 Ion 65.10 (64.80 to 65.80): VU0  
 Ion 83.05 (82.75 to 83.75): VU0

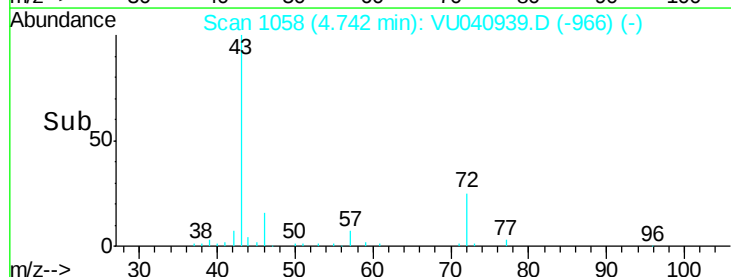
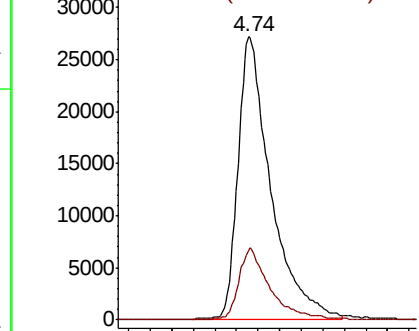


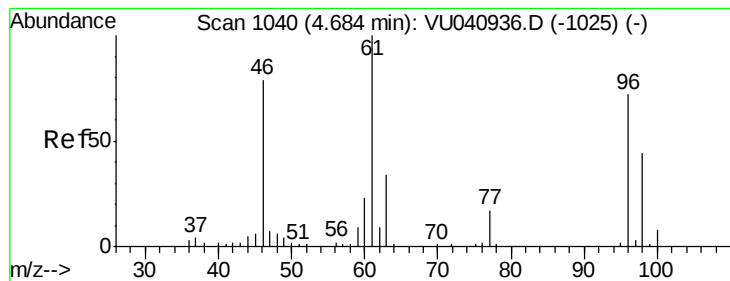
#21  
 2-Butanone  
 Concen: 46.568 ug/L  
 RT: 4.74 min Scan# 1058  
 Delta R.T. -0.00 min  
 Lab File: VU040939.D  
 Acq: 26 Oct 2020 12:46

Tgt Ion: 43 Resp: 115886  
 Ion Ratio Lower Upper  
 43 100  
 72 23.9 11.8 35.4



Abundance Ion 43.05 (42.75 to 43.75): VU0  
 Ion 72.10 (71.80 to 72.80): VU0





#22

cis-1,2-Dichloroethene

Concen: 4.456 ug/L

RT: 4.68 min Scan# 1040

Delta R.T. -0.00 min

Lab File: VU040939.D

Acq: 26 Oct 2020 12:46

Instrument :

MSVOA\_U

ClientSampleId :

VICV06

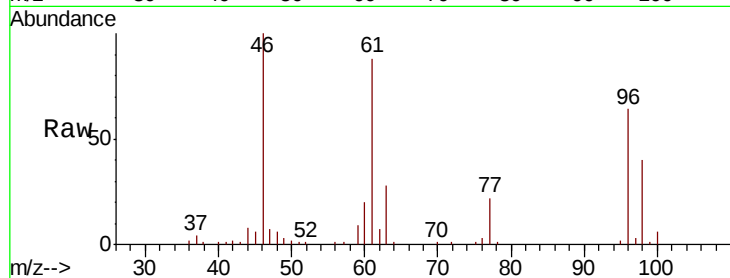
Tot Ion: 96 Resp: 27774

Ion Ratio Lower Upper

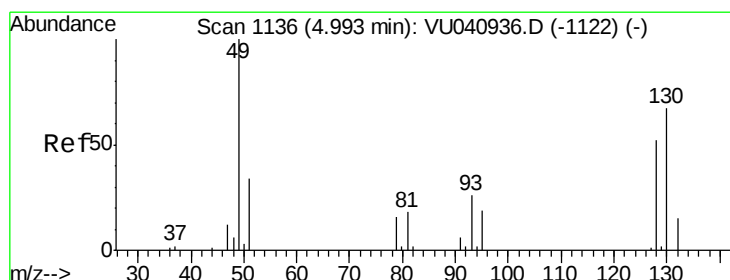
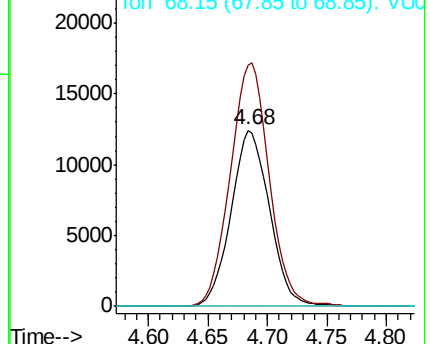
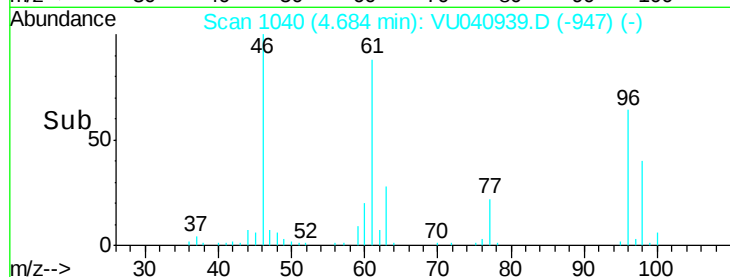
96 100

61 137.0 97.2 180.4

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU040939.D (-947) (-)



#23

Bromochloromethane

Concen: 4.422 ug/L

RT: 4.99 min Scan# 1136

Delta R.T. -0.00 min

Lab File: VU040939.D

Acq: 26 Oct 2020 12:46

Tgt Ion: 128 Resp: 13005

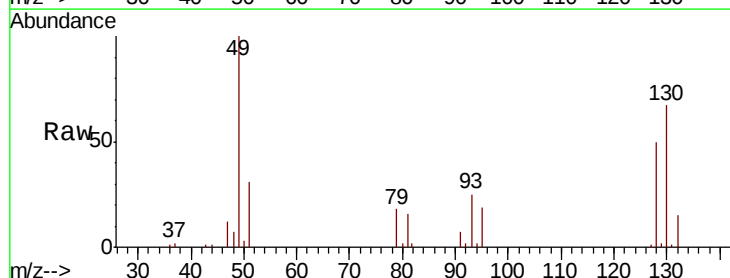
Ion Ratio Lower Upper

128 100

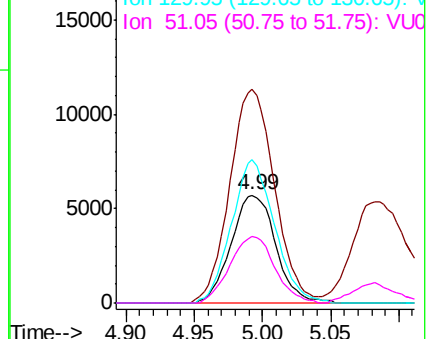
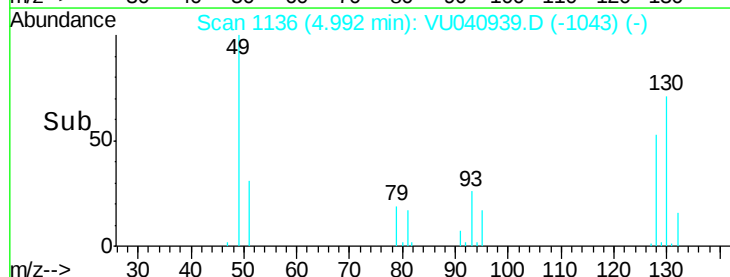
49 198.1 135.0 250.8

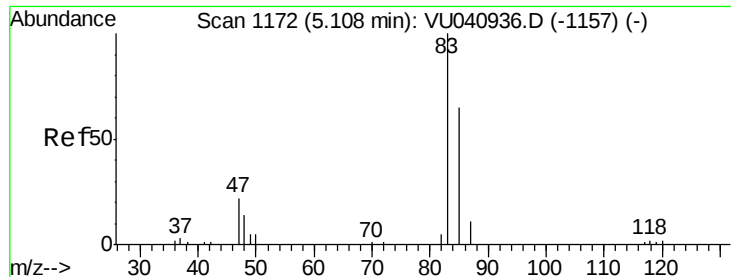
130 133.1 89.9 167.0

51 61.2 51.9 77.9



Abundance Ion 127.90 (127.60 to 128.60): VU040939.D (-1043) (-)

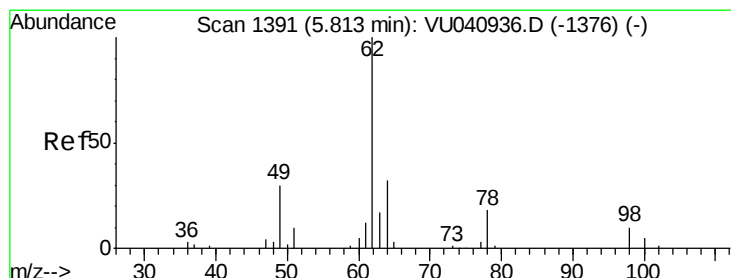
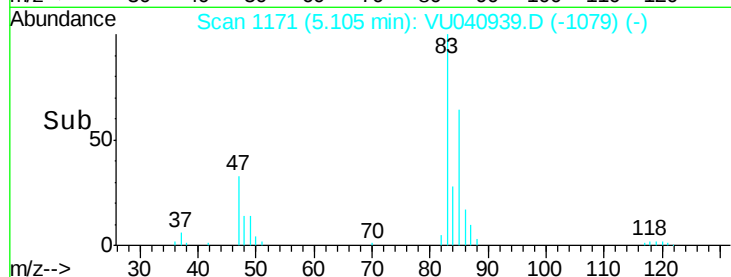
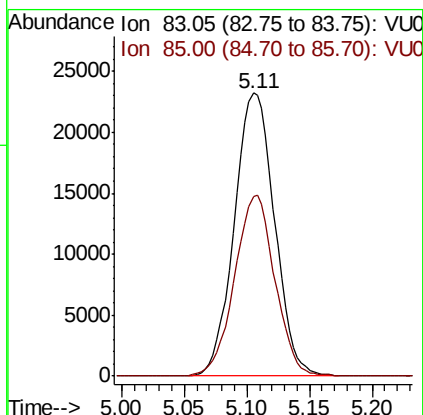
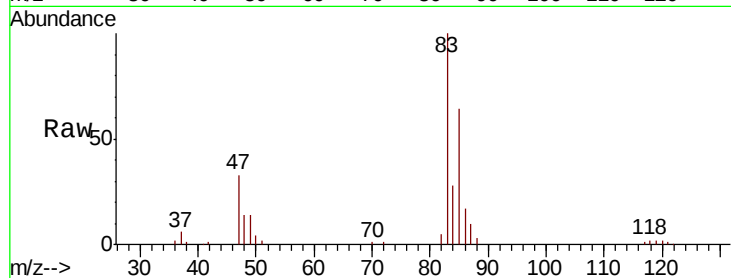




#25  
Chloroform  
Concen: 4.265 ug/L  
RT: 5.11 min Scan# 1171  
Delta R.T. -0.00 min  
Lab File: VU040939.D  
Acq: 26 Oct 2020 12:46

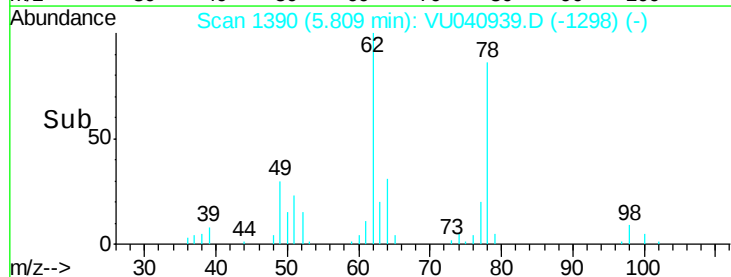
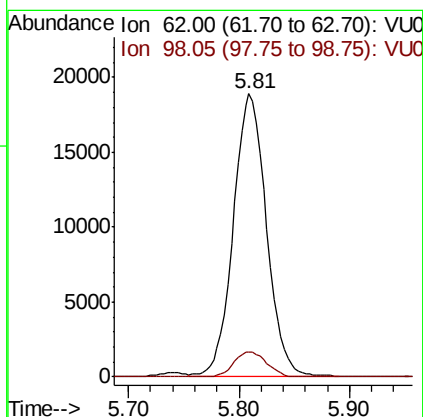
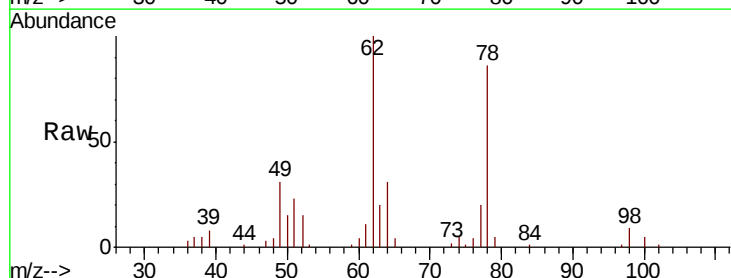
Instrument :  
MSVOA\_U  
ClientSampleId :  
VICV06

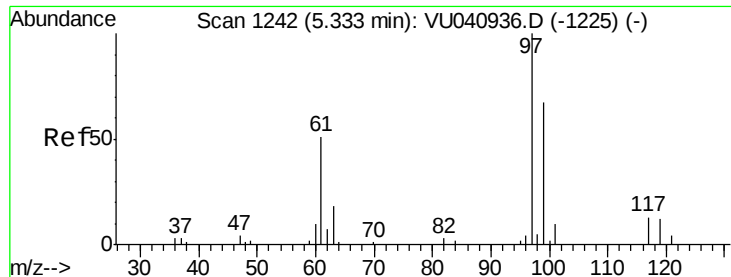
Tot Ion: 83 Resp: 51667  
Ion Ratio Lower Upper  
83 100  
85 63.7 46.1 85.7



#27  
1,2-Dichloroethane  
Concen: 4.374 ug/L  
RT: 5.81 min Scan# 1390  
Delta R.T. -0.00 min  
Lab File: VU040939.D  
Acq: 26 Oct 2020 12:46

Tgt Ion: 62 Resp: 39469  
Ion Ratio Lower Upper  
62 100  
98 8.8 7.6 11.4



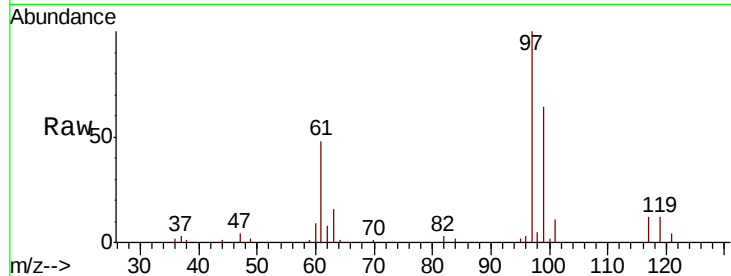


#29  
 1,1,1-Trichloroethane  
 Concen: 4.364 ug/L  
 RT: 5.33 min Scan# 1242  
 Delta R.T. -0.00 min  
 Lab File: VU040939.D  
 Acq: 26 Oct 2020 12:46

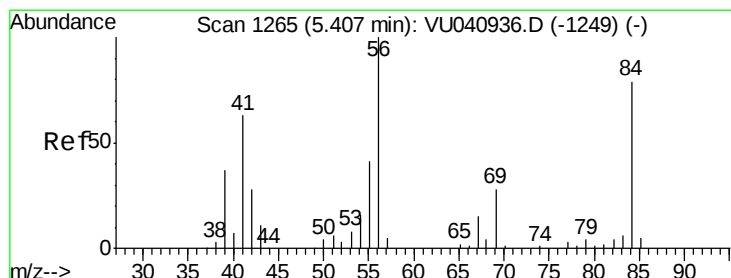
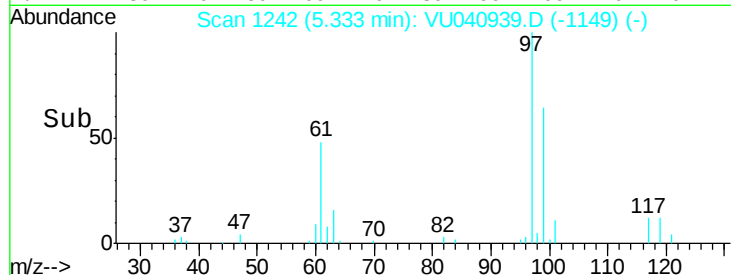
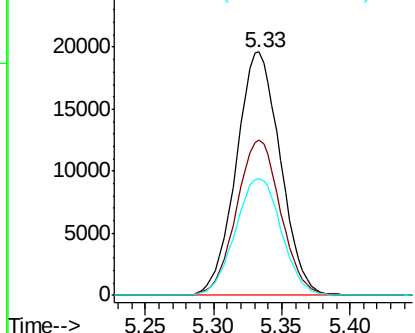
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VICV06

Tot Ion: 97 Resp: 43996  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 99  | 64.1  | 53.4  | 80.0  |
| 61  | 50.1  | 41.6  | 62.4  |



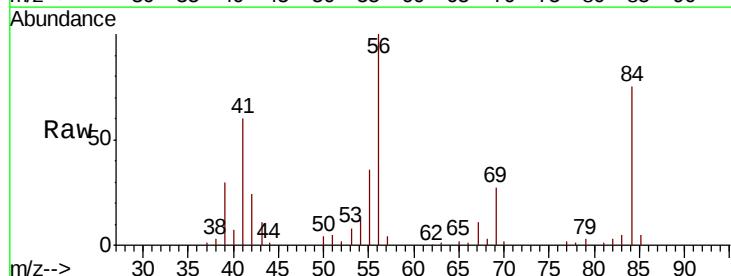
Abundance Ion 96.95 (96.65 to 97.65): VU0  
 Ion 99.05 (98.75 to 99.75): VU0  
 Ion 61.05 (60.75 to 61.75): VU0



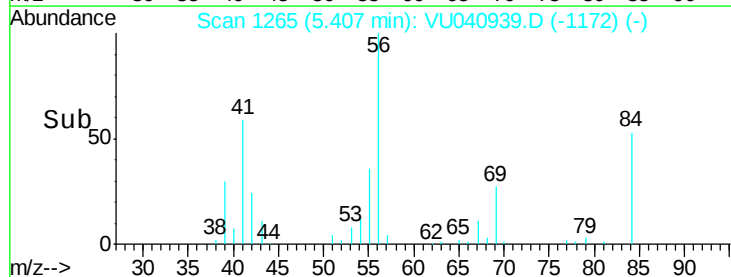
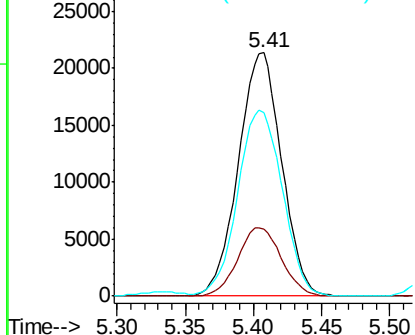
#30  
 Cyclohexane  
 Concen: 4.743 ug/L  
 RT: 5.41 min Scan# 1265  
 Delta R.T. -0.00 min  
 Lab File: VU040939.D  
 Acq: 26 Oct 2020 12:46

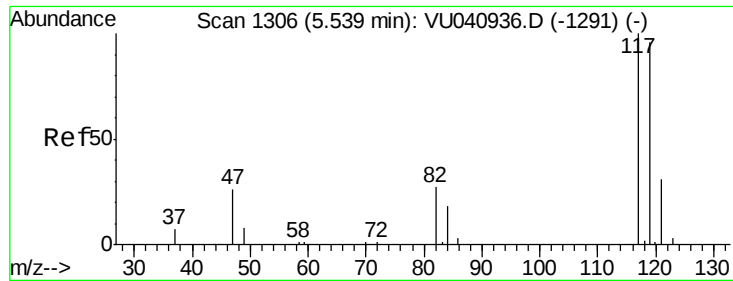
Tgt Ion: 56 Resp: 47108  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 56  | 100   |       |       |
| 69  | 28.1  | 22.8  | 34.2  |
| 84  | 79.0  | 63.6  | 95.4  |



Abundance Ion 56.10 (55.80 to 56.80): VU0  
 Ion 69.15 (68.85 to 69.85): VU0  
 Ion 84.15 (83.85 to 84.85): VU0

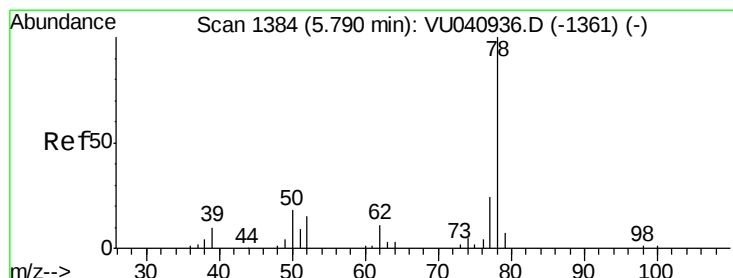
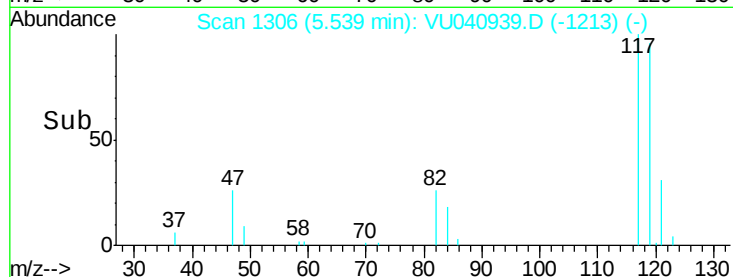
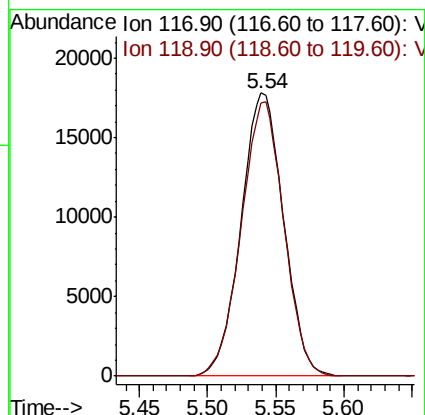
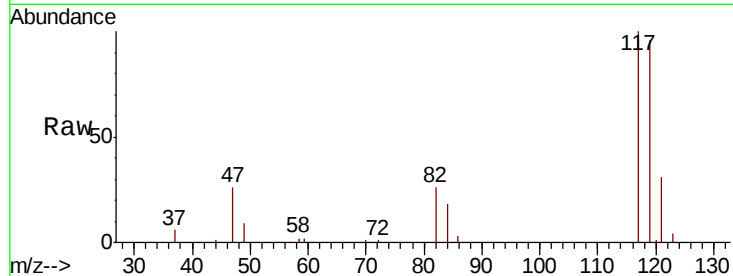




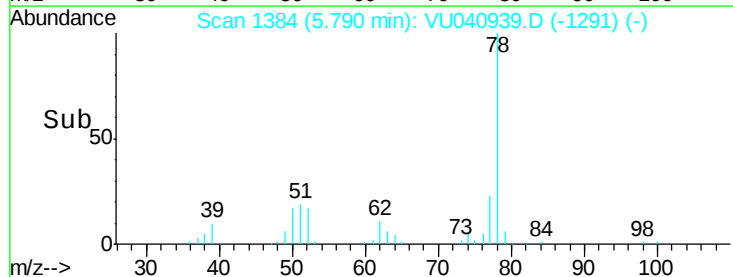
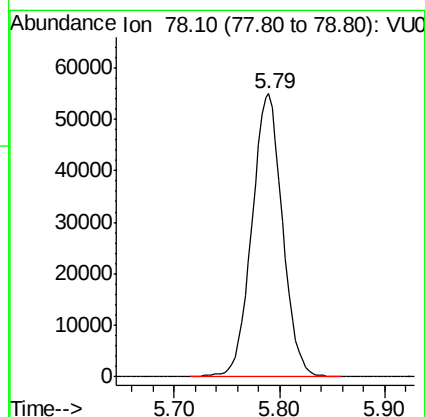
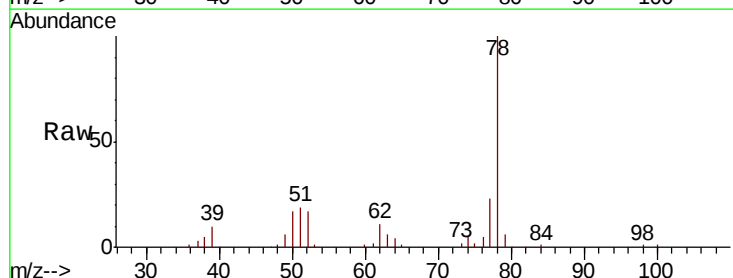
#31  
Carbon tetrachloride  
Concen: 4.315 ug/L  
RT: 5.54 min Scan# 1306  
Delta R.T. -0.00 min  
Lab File: VU040939.D  
Acq: 26 Oct 2020 12:46

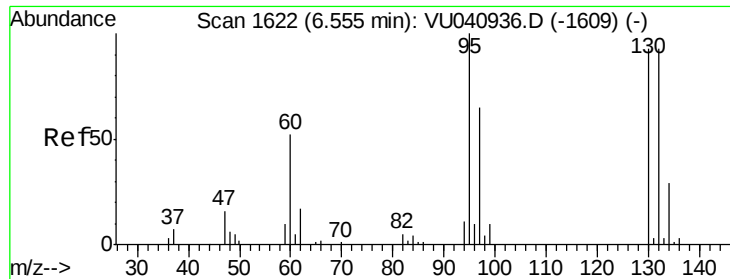
Instrument :  
MSVOA\_U  
ClientSampleId :  
VICV06

Tot Ion:117 Resp: 38520  
Ion Ratio Lower Upper  
117 100  
119 96.8 76.1 114.1



#33  
Benzene  
Concen: 4.506 ug/L  
RT: 5.79 min Scan# 1384  
Delta R.T. -0.00 min  
Lab File: VU040939.D  
Acq: 26 Oct 2020 12:46  
Tgt Ion: 78 Resp: 110977





#34

Trichloroethene

Concen: 4.524 ug/L

RT: 6.55 min Scan# 1621

Delta R.T. -0.00 min

Lab File: VU040939.D

Acq: 26 Oct 2020 12:46

Instrument :

MSVOA\_U

ClientSampleId :

VICV06

Tot Ion: 95 Resp: 28355

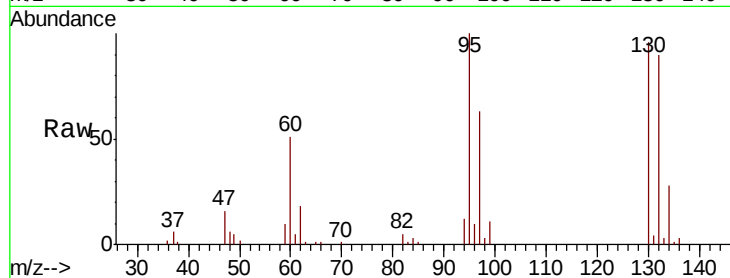
Ion Ratio Lower Upper

95 100

97 63.3 45.6 84.6

132 90.2 64.8 120.4

130 95.8 64.8 120.4

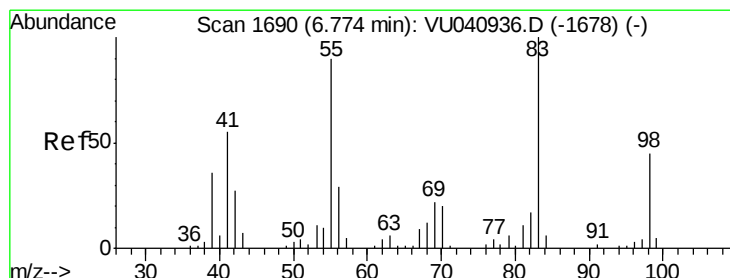
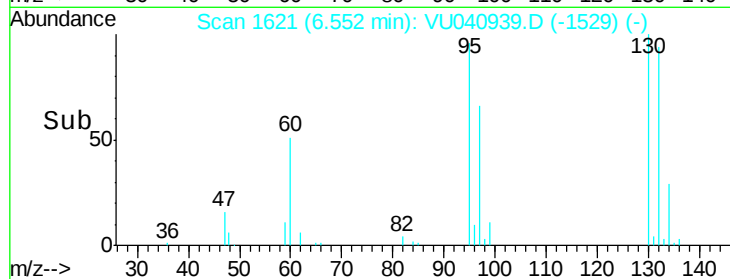
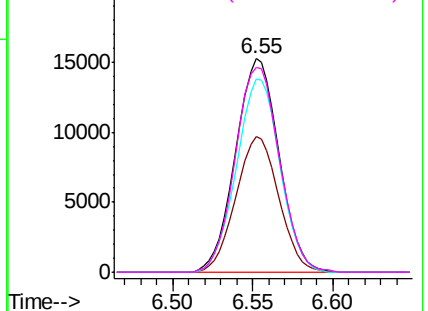


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 4.689 ug/L

RT: 6.77 min Scan# 1690

Delta R.T. -0.00 min

Lab File: VU040939.D

Acq: 26 Oct 2020 12:46

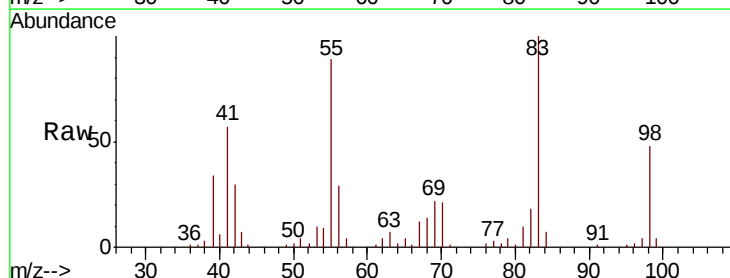
Tgt Ion: 83 Resp: 43838

Ion Ratio Lower Upper

83 100

55 88.1 72.0 108.0

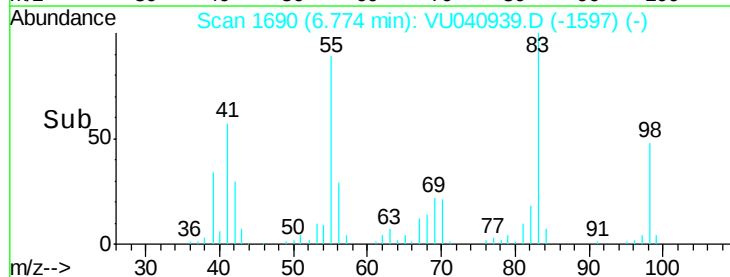
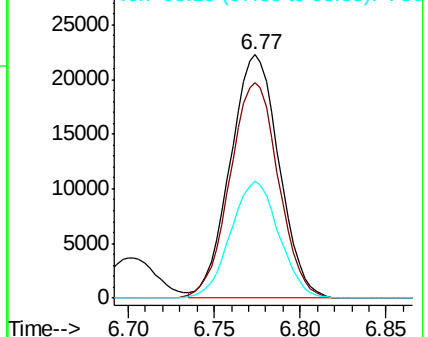
98 47.5 36.6 55.0

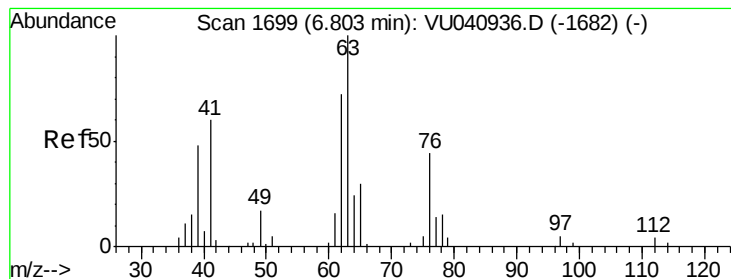


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 4.412 ug/L

RT: 6.80 min Scan# 1699

Delta R.T. -0.00 min

Lab File: VU040939.D

Acq: 26 Oct 2020 12:46

Instrument :

MSVOA\_U

ClientSampleId :

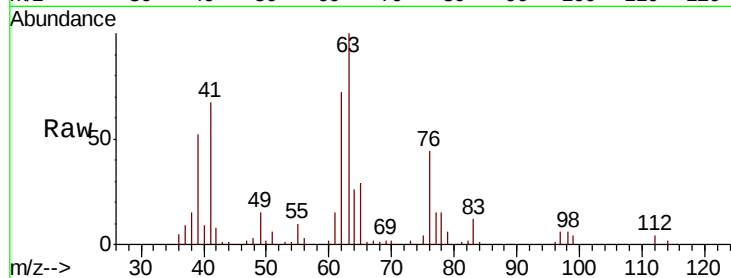
VICV06

Tot Ion: 63 Resp: 29400

Ion Ratio Lower Upper

63 100

112 4.0 3.6 5.4



Abundance Ion 63.10 (62.80 to 63.80): VU040939.D (-1606) (-)

Ion 112.10 (111.80 to 112.80): VU040939.D (-1606) (-)

6.80

15000

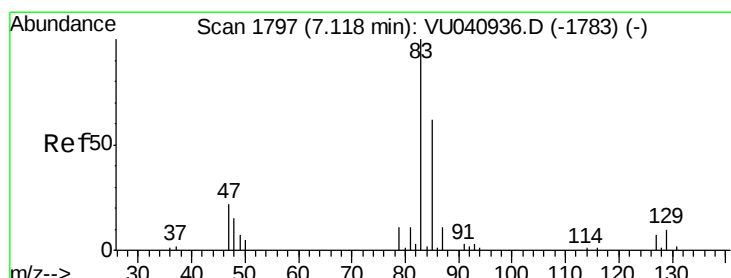
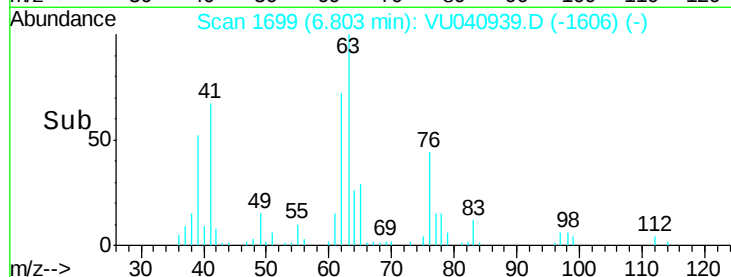
10000

5000

0

6.75 6.80 6.85

Time-->



#38

Bromodichloromethane

Concen: 4.441 ug/L

RT: 7.12 min Scan# 1797

Delta R.T. -0.00 min

Lab File: VU040939.D

Acq: 26 Oct 2020 12:46

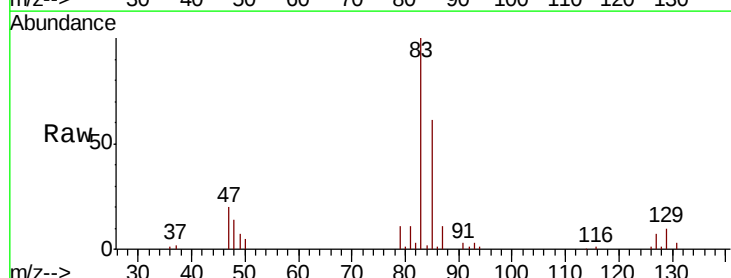
Tgt Ion: 83 Resp: 38393

Ion Ratio Lower Upper

83 100

85 61.2 43.3 80.3

127 7.4 5.9 8.9



Abundance Ion 82.95 (82.65 to 83.65): VU040939.D (-1704) (-)

Ion 85.00 (84.70 to 85.70): VU040939.D (-1704) (-)

Ion 126.90 (126.60 to 127.60): VU040939.D (-1704) (-)

7.12

25000

20000

15000

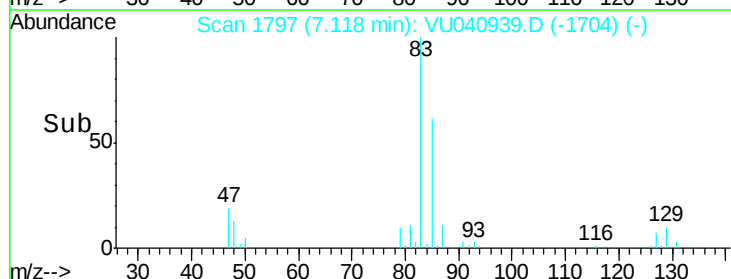
10000

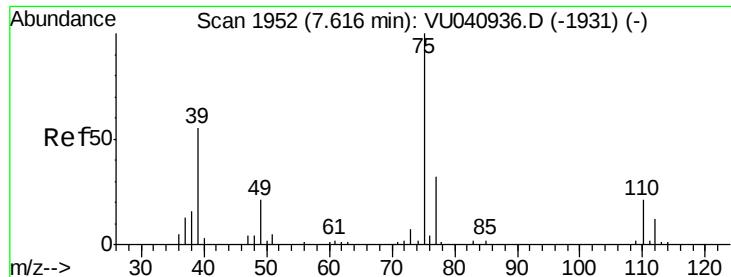
5000

0

7.05 7.10 7.15 7.20

Time-->

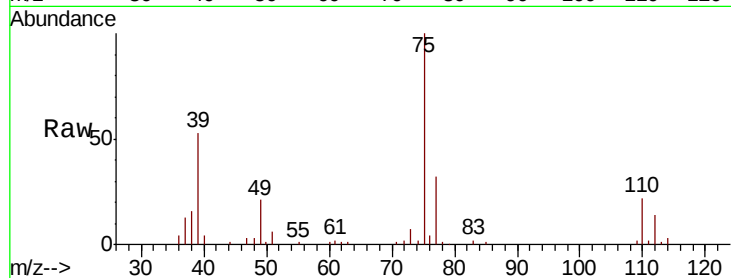




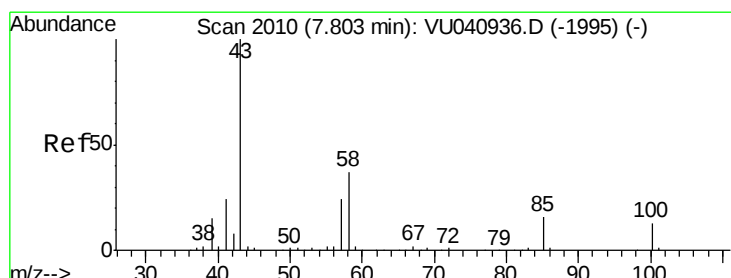
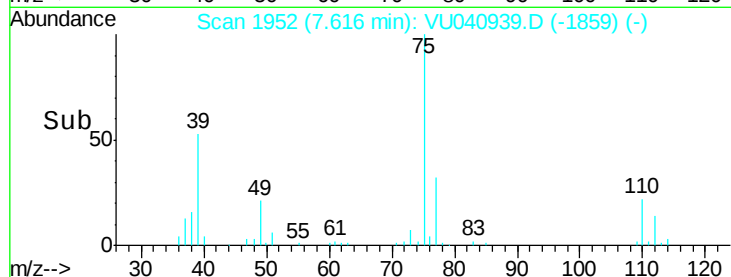
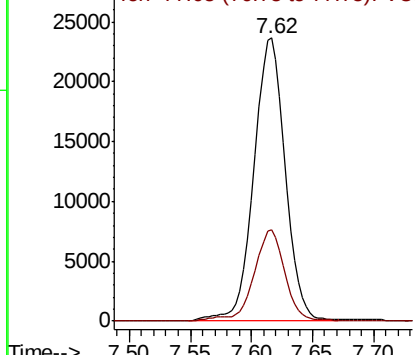
#39  
 cis-1,3-Dichloropropene  
 Concen: 4.584 ug/L  
 RT: 7.62 min Scan# 1952  
 Delta R.T. -0.00 min  
 Lab File: VU040939.D  
 Acq: 26 Oct 2020 12:46

Instrument :  
 MSVOA\_U  
 ClientSampled :  
 VICV06

Tot Ion: 75 Resp: 42061  
 Ion Ratio Lower Upper  
 75 100  
 77 32.1 22.7 42.3

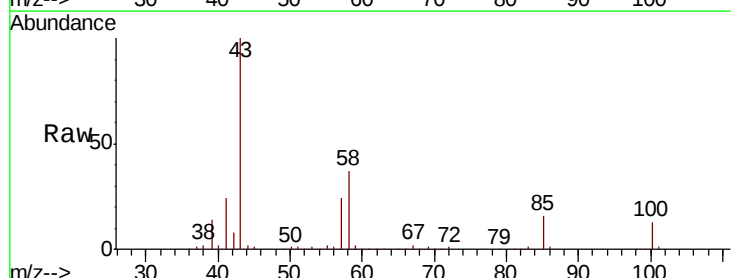


Abundance Ion 75.05 (74.75 to 75.75): VU0  
 Ion 77.05 (76.75 to 77.75): VU0

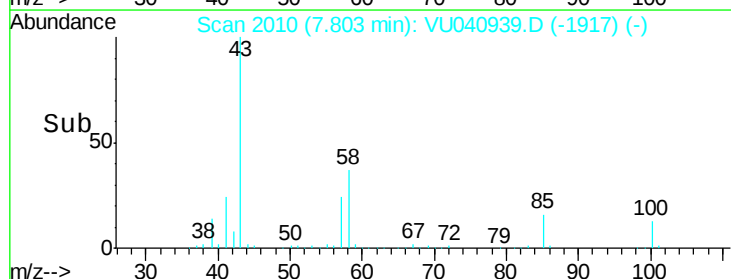
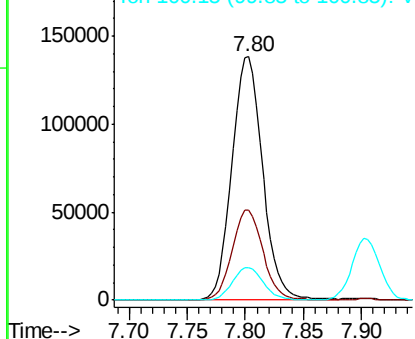


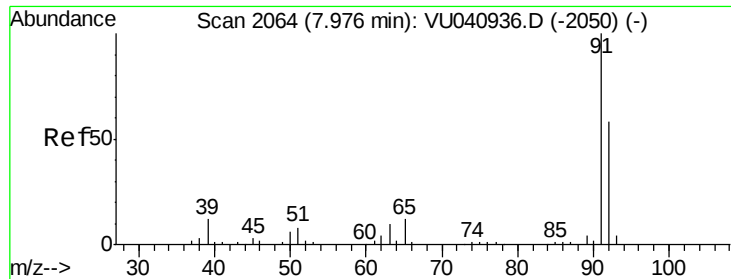
#40  
 4-Methyl-2-pentanone  
 Concen: 47.806 ug/L  
 RT: 7.80 min Scan# 2010  
 Delta R.T. -0.00 min  
 Lab File: VU040939.D  
 Acq: 26 Oct 2020 12:46

Tgt Ion: 43 Resp: 254028  
 Ion Ratio Lower Upper  
 43 100  
 58 37.0 29.8 44.6  
 100 13.3 10.5 15.7



Abundance Ion 43.05 (42.75 to 43.75): VU0  
 Ion 58.05 (57.75 to 58.75): VU0  
 Ion 100.15 (99.85 to 100.85): VU0





#42

Toluene

Concen: 4.596 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. -0.00 min

Lab File: VU040939.D

Acq: 26 Oct 2020 12:46

Instrument :

MSVOA\_U

ClientSampleId :

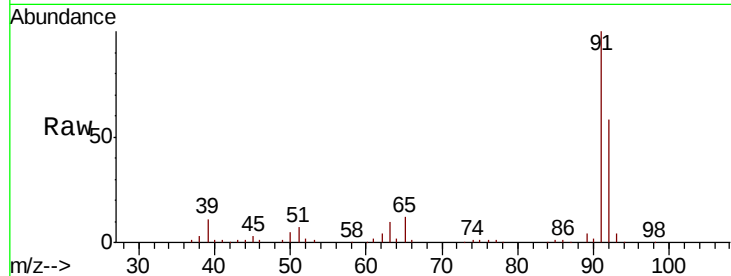
VICV06

Tot Ion: 91 Resp: 114782

Ion Ratio Lower Upper

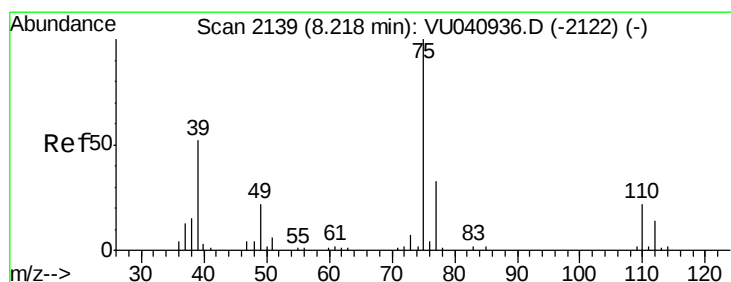
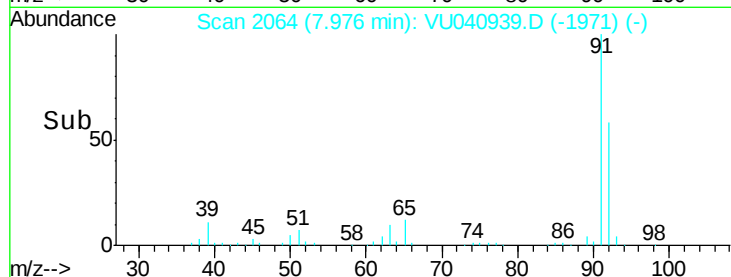
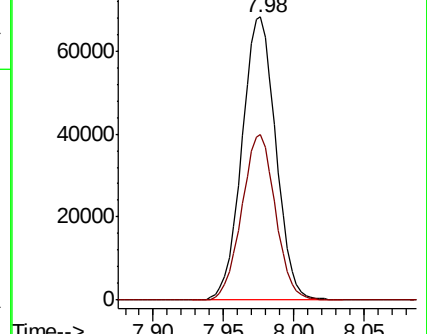
91 100

92 58.4 40.6 75.4



Abundance Ion 91.15 (90.85 to 91.85): VU040939.D (-1971) (-)

Ion 92.15 (91.85 to 92.85): VU040939.D (-1971) (-)



#44

trans-1,3-Dichloropropene

Concen: 4.658 ug/L

RT: 8.21 min Scan# 2138

Delta R.T. -0.00 min

Lab File: VU040939.D

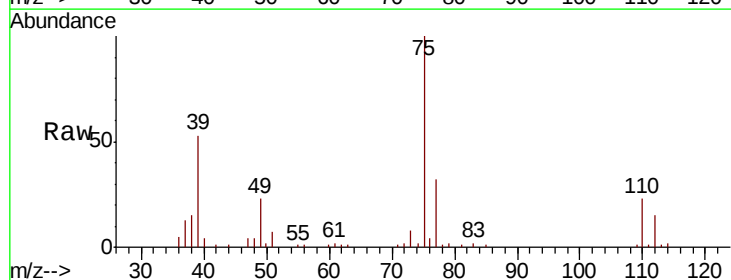
Acq: 26 Oct 2020 12:46

Tgt Ion: 75 Resp: 39999

Ion Ratio Lower Upper

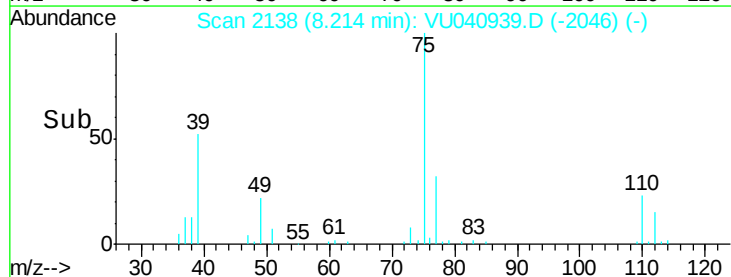
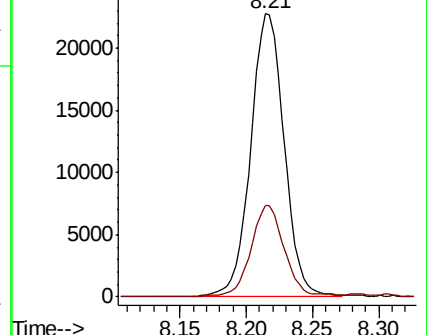
75 100

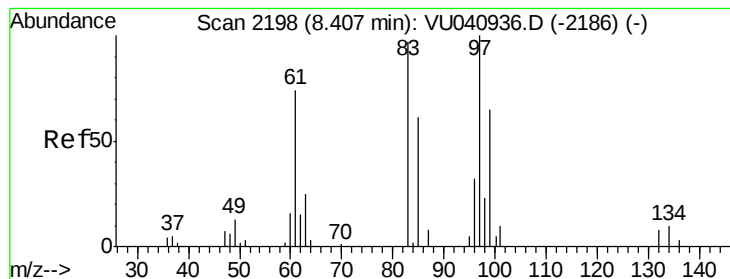
77 32.3 23.3 43.3



Abundance Ion 75.05 (74.75 to 75.75): VU040939.D (-2046) (-)

Ion 77.05 (76.75 to 77.75): VU040939.D (-2046) (-)





#45

1,1,2-Trichloroethane

Concen: 4.424 ug/L

RT: 8.41 min Scan# 2198

Delta R.T. -0.00 min

Lab File: VU040939.D

Acq: 26 Oct 2020 12:46

Instrument :

MSVOA\_U

ClientSampleId :

VICV06

Tot Ion: 97 Resp: 21948

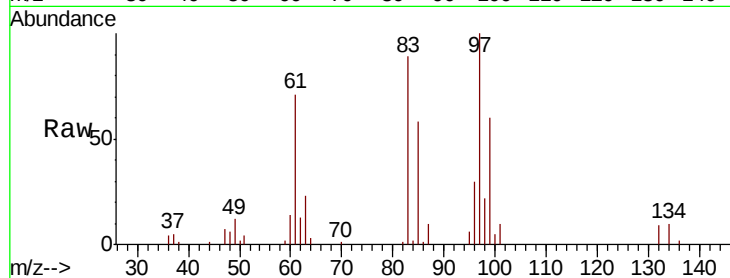
Ion Ratio Lower Upper

97 100

99 60.2 45.8 85.2

83 88.6 67.9 126.1

85 58.2 42.8 79.6



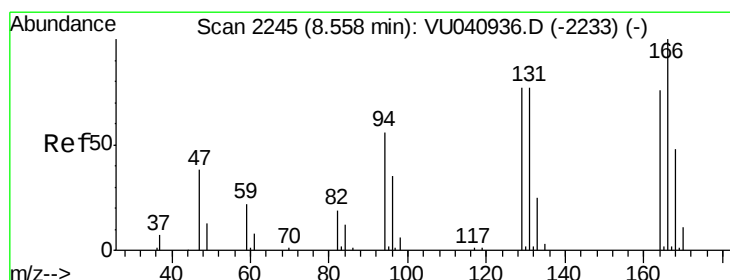
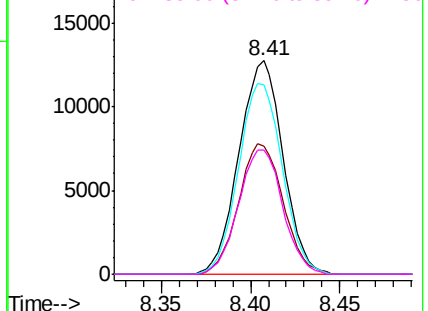
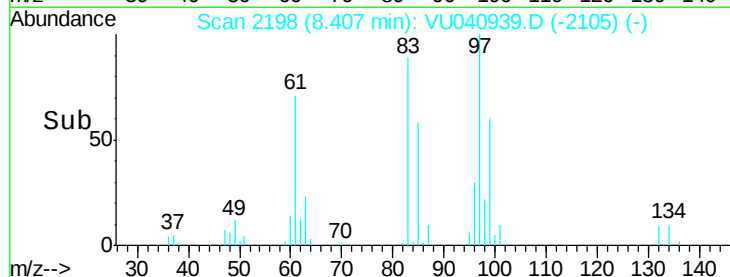
Abundance

Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0



#47

Tetrachloroethene

Concen: 4.496 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. -0.00 min

Lab File: VU040939.D

Acq: 26 Oct 2020 12:46

Tgt Ion: 164 Resp: 20721

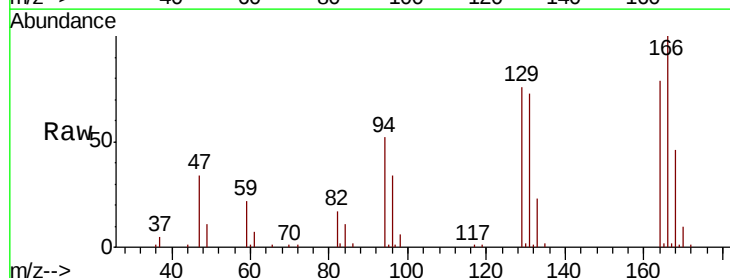
Ion Ratio Lower Upper

164 100

129 96.3 70.3 130.7

131 92.5 70.8 131.4

166 126.0 92.0 170.8



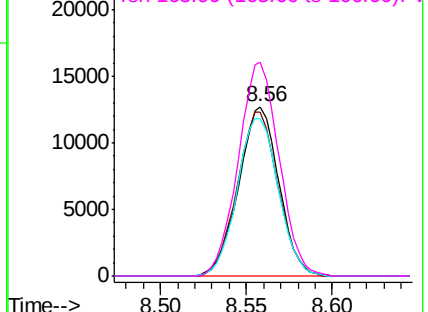
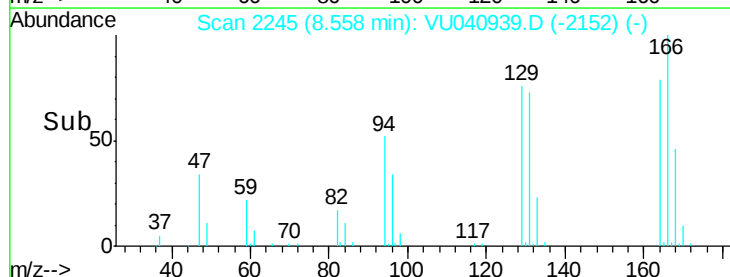
Abundance

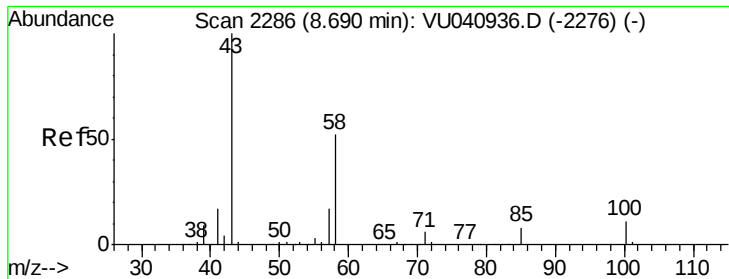
Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

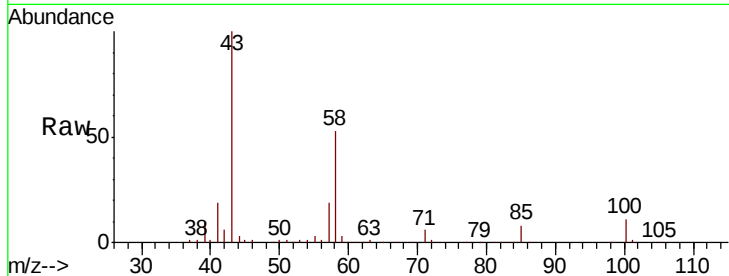




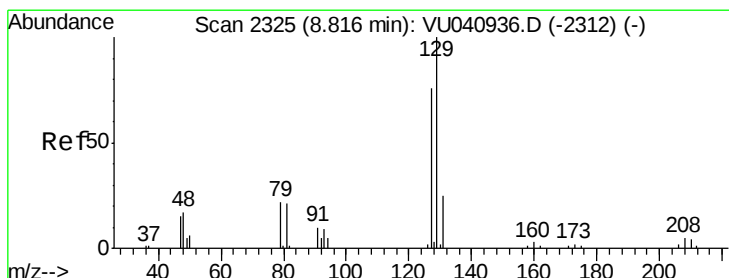
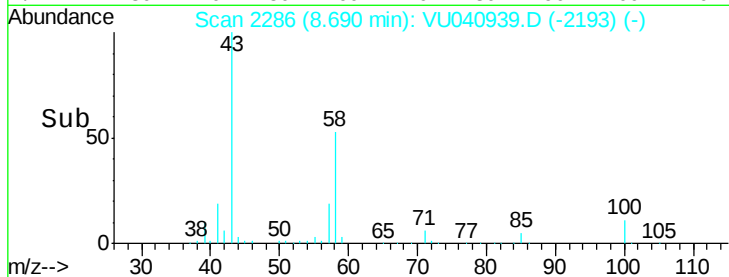
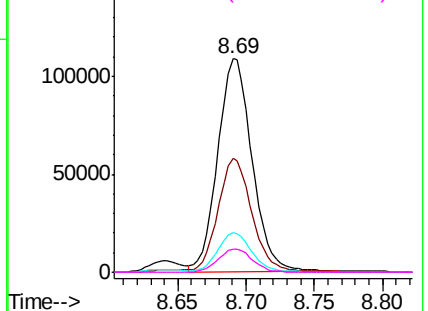
#48  
2-Hexanone  
Concen: 47.475 ug/L  
RT: 8.69 min Scan# 2286  
Delta R.T. -0.00 min  
Lab File: VU040939.D  
Acq: 26 Oct 2020 12:46

Instrument :  
MSVOA\_U  
ClientSampleId :  
VICV06

Tot Ion: 43 Resp: 189947  
Ion Ratio Lower Upper  
43 100  
58 52.8 41.4 62.2  
57 18.6 14.6 21.8  
100 10.9 8.3 12.5

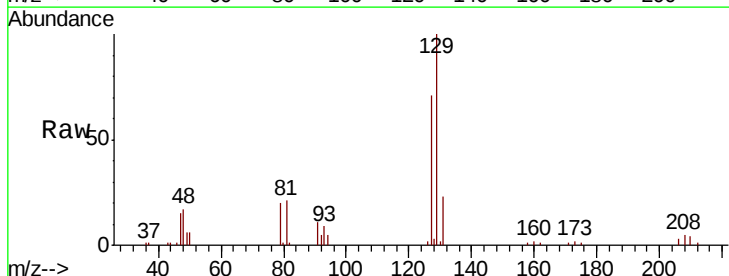


Abundance Ion 43.05 (42.75 to 43.75): VU0  
Ion 58.05 (57.75 to 58.75): VU0  
Ion 57.20 (56.90 to 57.90): VU0  
Ion 100.15 (99.85 to 100.85): VU0

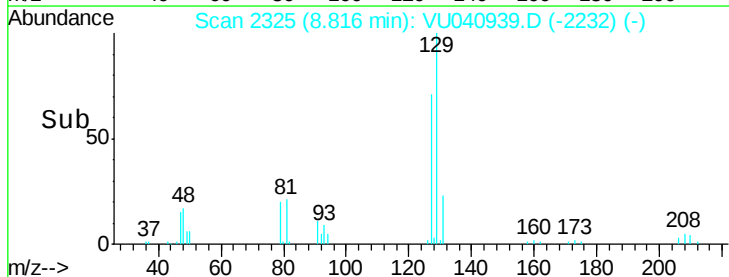
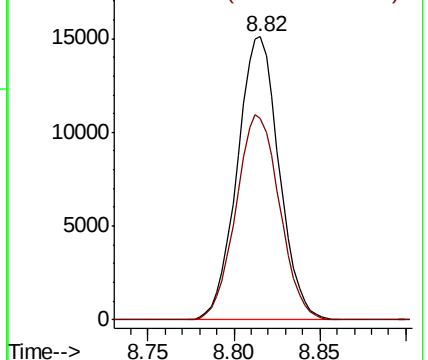


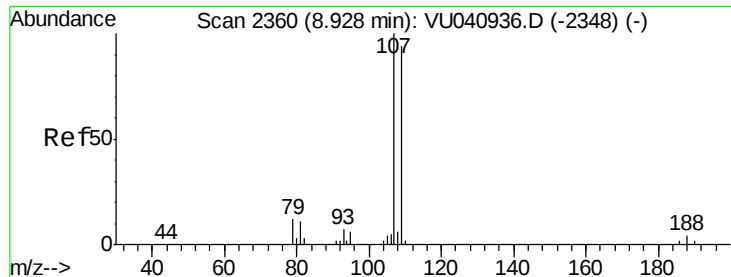
#49  
Dibromochloromethane  
Concen: 4.422 ug/L  
RT: 8.82 min Scan# 2325  
Delta R.T. -0.00 min  
Lab File: VU040939.D  
Acq: 26 Oct 2020 12:46

Tgt Ion: 129 Resp: 25477  
Ion Ratio Lower Upper  
129 100  
127 71.3 53.4 99.2



Abundance Ion 128.95 (128.65 to 129.65): V  
Ion 126.90 (126.60 to 127.60): V

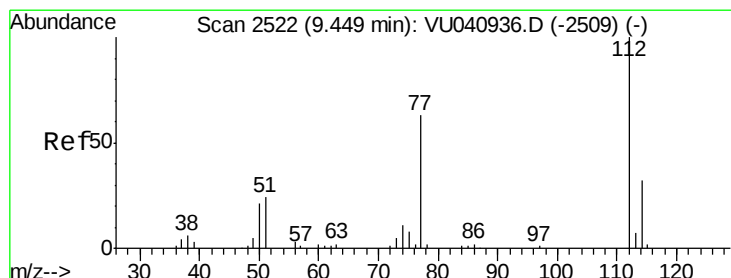
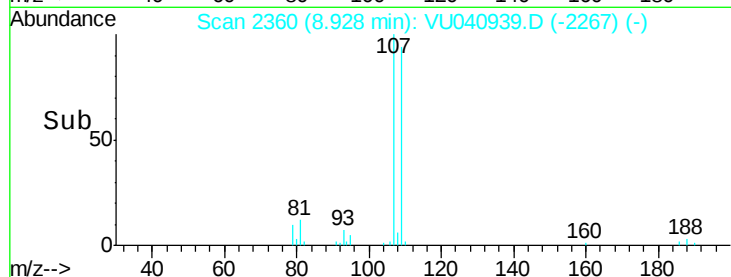
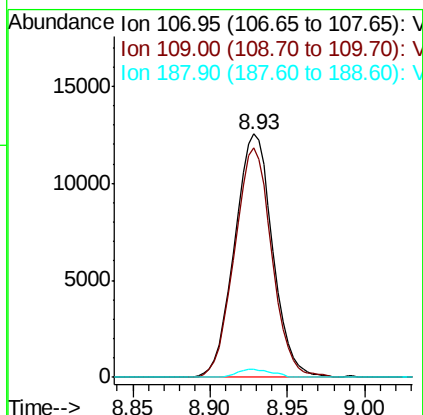
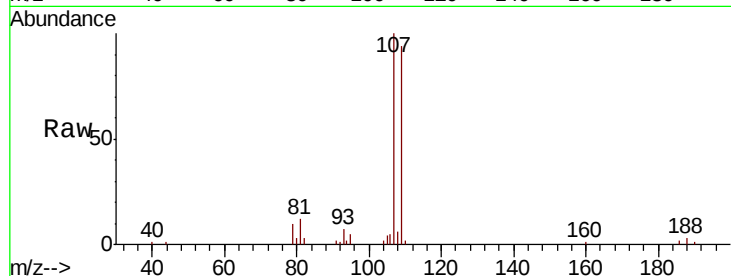




#50  
1,2-Dibromoethane  
Concen: 4.524 ug/L  
RT: 8.93 min Scan# 2360  
Delta R.T. -0.00 min  
Lab File: VU040939.D  
Acq: 26 Oct 2020 12:46

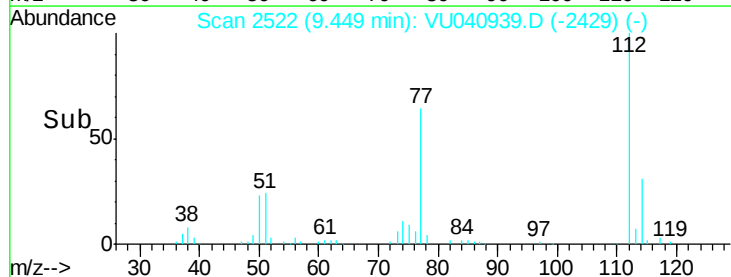
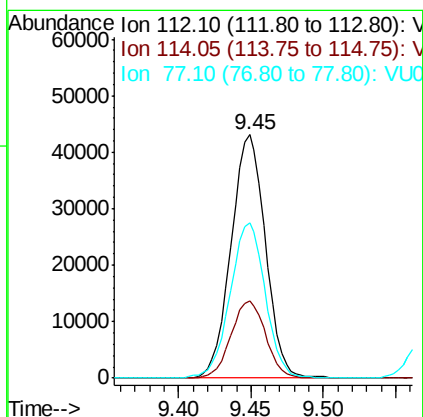
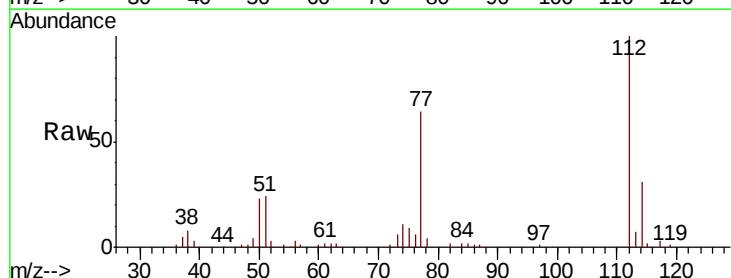
Instrument :  
MSVOA\_U  
ClientSampleId :  
VICV06

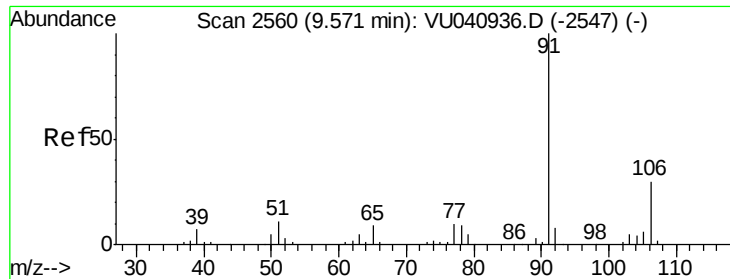
Tot Ion:107 Resp: 21389  
Ion Ratio Lower Upper  
107 100  
109 94.4 65.6 121.8  
188 3.3 2.9 4.3



#51  
Chlorobenzene  
Concen: 4.470 ug/L  
RT: 9.45 min Scan# 2522  
Delta R.T. -0.00 min  
Lab File: VU040939.D  
Acq: 26 Oct 2020 12:46

Tgt Ion:112 Resp: 70796  
Ion Ratio Lower Upper  
112 100  
114 31.5 22.4 41.6  
77 63.9 51.2 76.8





#52

Ethylbenzene

Concen: 4.597 ug/L

RT: 9.57 min Scan# 2560

Delta R.T. -0.00 min

Lab File: VU040939.D

Acq: 26 Oct 2020 12:46

Instrument :

MSVOA\_U

ClientSampleId :

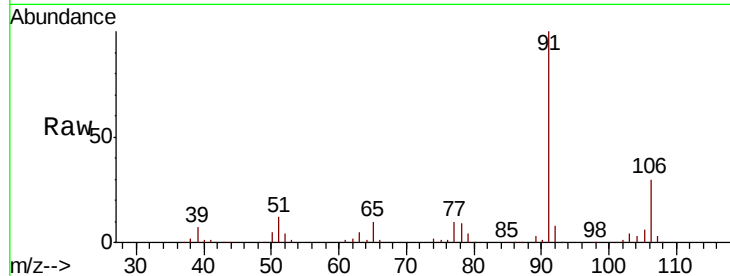
VICV06

Tot Ion: 91 Resp: 120842

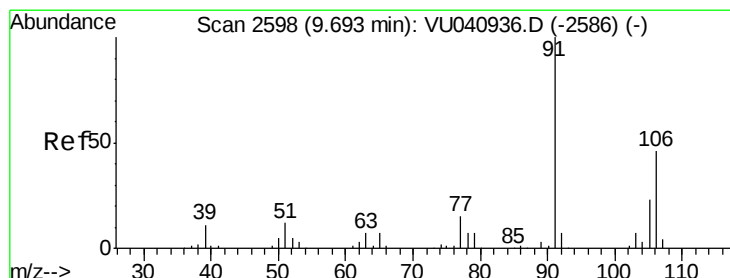
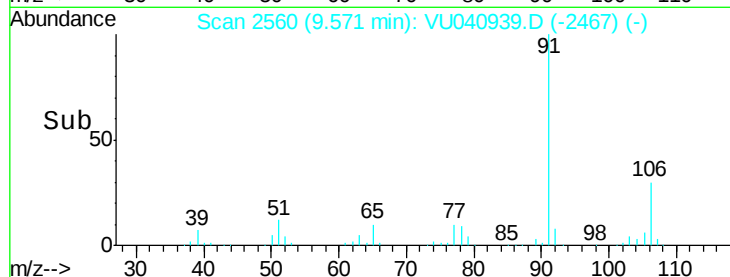
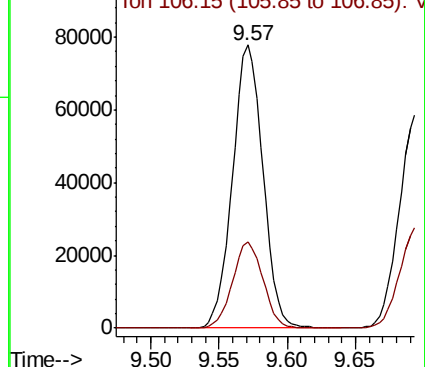
Ion Ratio Lower Upper

91 100

106 30.3 21.0 39.0



Abundance Ion 91.15 (90.85 to 91.85): VU040939.D (-2547) (-)



#53

m,p-Xylene

Concen: 4.683 ug/L

RT: 9.69 min Scan# 2598

Delta R.T. -0.00 min

Lab File: VU040939.D

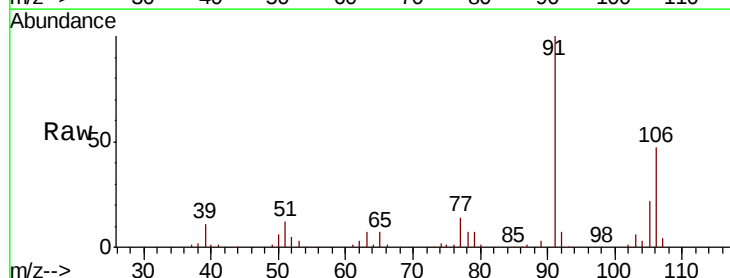
Acq: 26 Oct 2020 12:46

Tgt Ion: 106 Resp: 44902

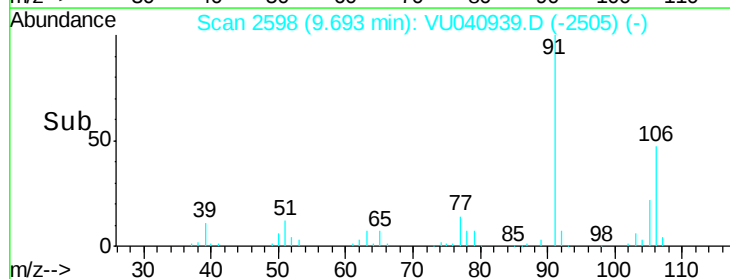
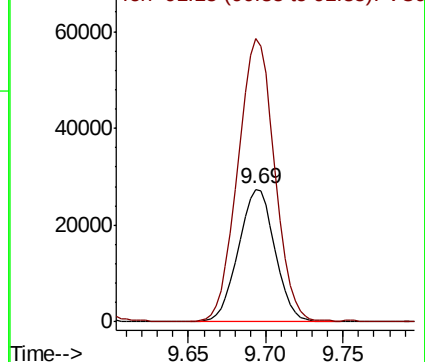
Ion Ratio Lower Upper

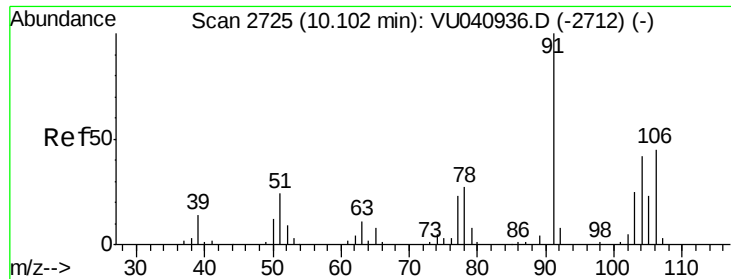
106 100

91 213.0 150.9 280.3



Abundance Ion 106.15 (105.85 to 106.85): VU040939.D (-2598) (-)

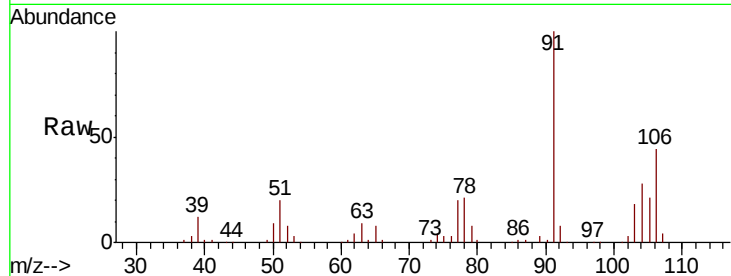




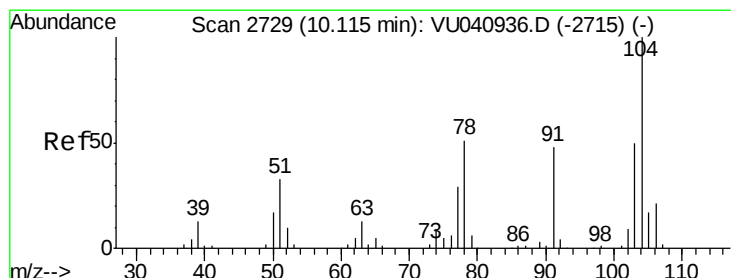
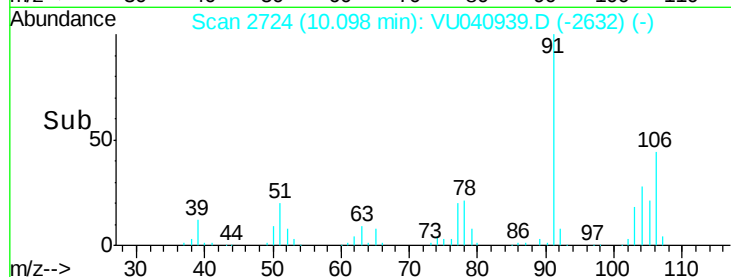
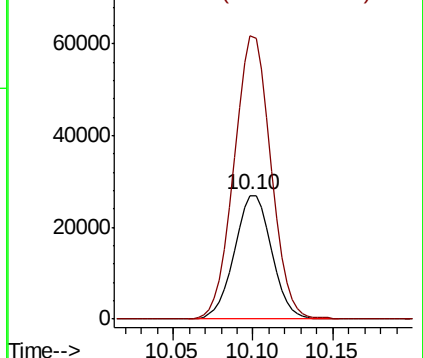
#54  
o-Xylene  
Concen: 4.787 ug/L  
RT: 10.10 min Scan# 2724  
Delta R.T. -0.00 min  
Lab File: VU040939.D  
Acq: 26 Oct 2020 12:46

Instrument :  
MSVOA\_U  
ClientSampleId :  
VICV06

Tot Ion:106 Resp: 42741  
Ion Ratio Lower Upper  
106 100  
91 228.5 154.3 286.5

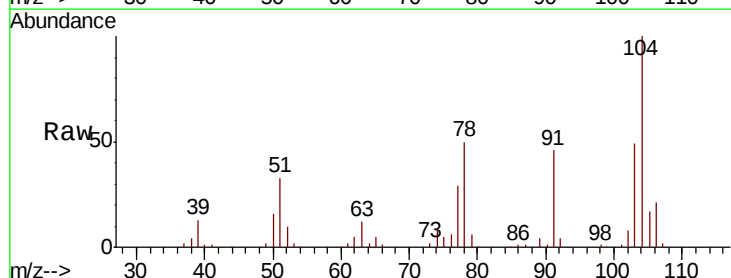


Abundance Ion 106.15 (105.85 to 106.85): V  
Ion 91.15 (90.85 to 91.85): VU0

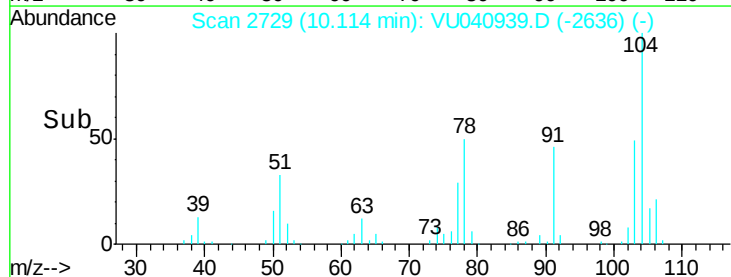
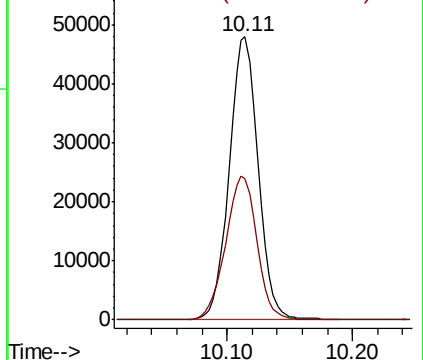


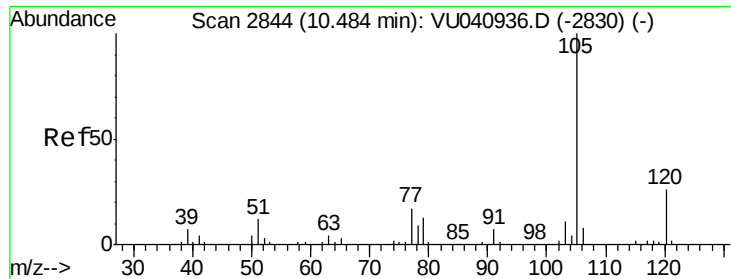
#55  
Styrene  
Concen: 4.818 ug/L  
RT: 10.11 min Scan# 2729  
Delta R.T. -0.00 min  
Lab File: VU040939.D  
Acq: 26 Oct 2020 12:46

Tgt Ion:104 Resp: 76644  
Ion Ratio Lower Upper  
104 100  
78 49.8 35.5 65.9



Abundance Ion 104.10 (103.80 to 104.80): V  
Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 4.858 ug/L

RT: 10.48 min Scan# 2844

Delta R.T. -0.00 min

Lab File: VU040939.D

Acq: 26 Oct 2020 12:46

Instrument :

MSVOA\_U

ClientSampleId :

VICV06

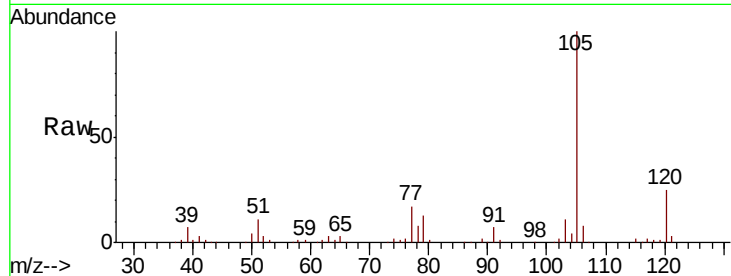
Tot Ion:105 Resp: 116645

Ion Ratio Lower Upper

105 100

120 26.2 20.7 31.1

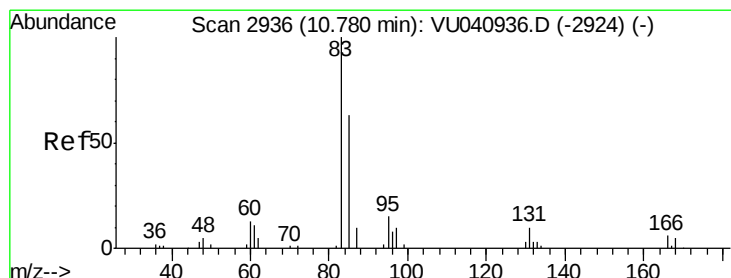
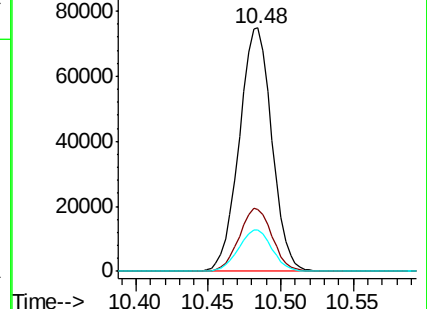
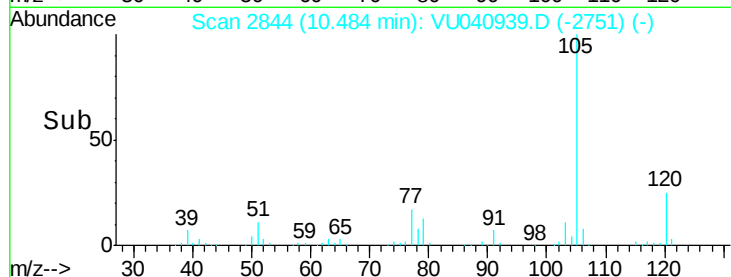
77 17.3 13.8 20.6



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 4.585 ug/L

RT: 10.78 min Scan# 2936

Delta R.T. -0.00 min

Lab File: VU040939.D

Acq: 26 Oct 2020 12:46

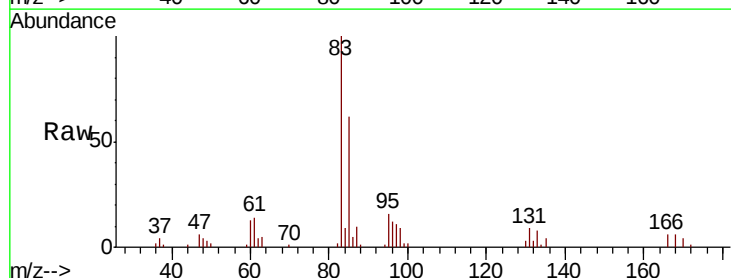
Tgt Ion: 83 Resp: 29875

Ion Ratio Lower Upper

83 100

85 61.8 44.4 82.4

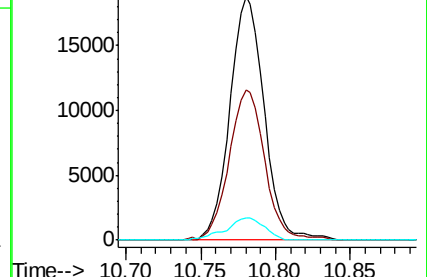
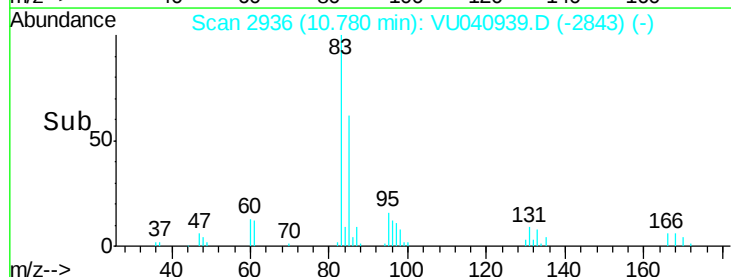
131 9.2 7.7 11.5

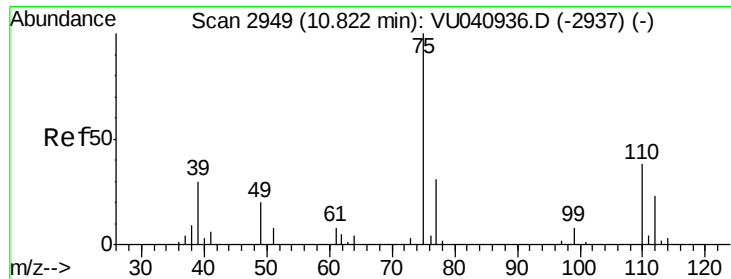


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 130.95 (130.65 to 131.65): V

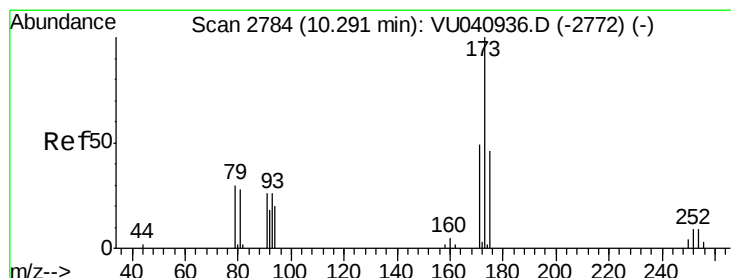
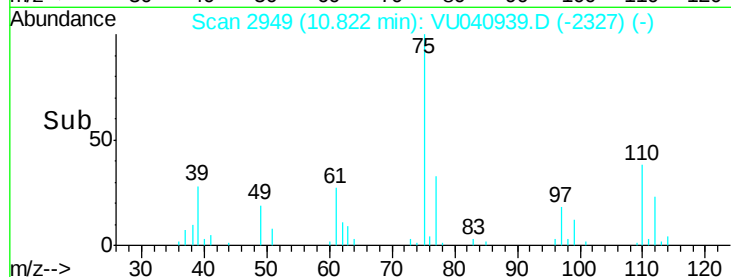
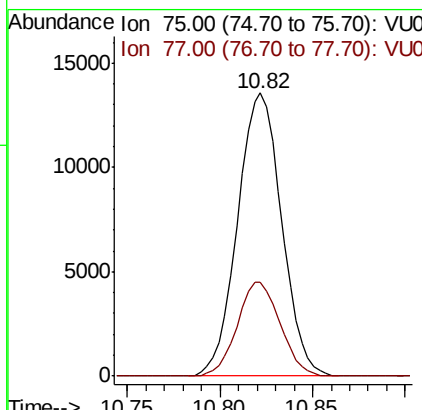
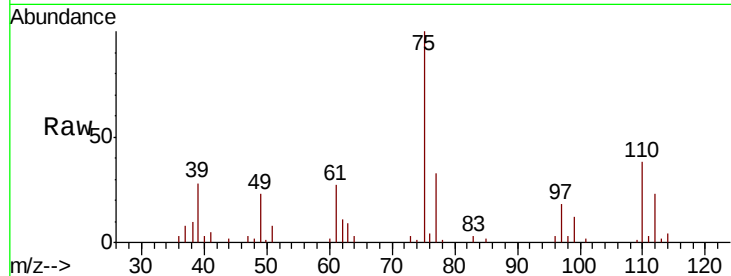




#59  
 1,2,3-Trichloropropane  
 Concen: 4.498 ug/L  
 RT: 10.82 min Scan# 2949  
 Delta R.T. -0.00 min  
 Lab File: VU040939.D  
 Acq: 26 Oct 2020 12:46

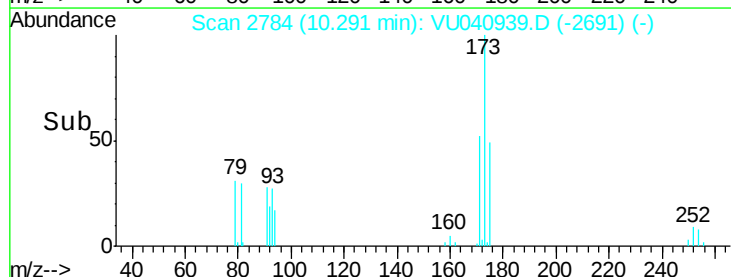
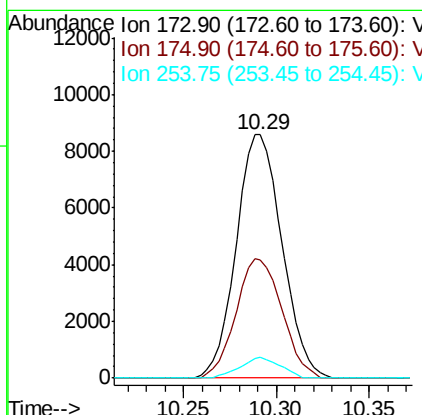
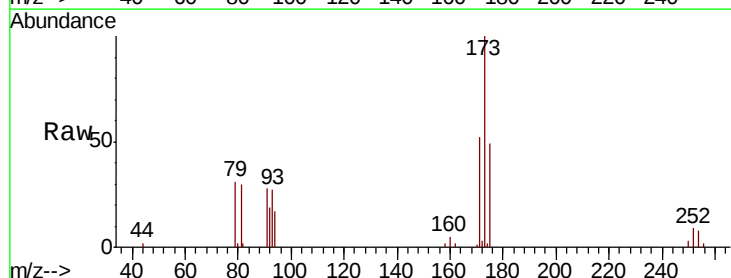
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VICV06

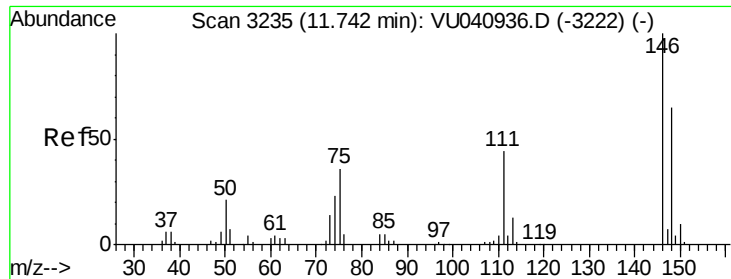
Tot Ion: 75 Resp: 22340  
 Ion Ratio Lower Upper  
 75 100  
 77 32.3 25.7 38.5



#61  
 Bromoform  
 Concen: 4.612 ug/L  
 RT: 10.29 min Scan# 2784  
 Delta R.T. -0.00 min  
 Lab File: VU040939.D  
 Acq: 26 Oct 2020 12:46

Tgt Ion: 173 Resp: 14694  
 Ion Ratio Lower Upper  
 173 100  
 175 49.0 37.6 56.4  
 254 7.5 6.6 9.8





#62

1,3-Dichlorobenzene

Concen: 4.759 ug/L

RT: 11.74 min Scan# 3235

Delta R.T. -0.00 min

Lab File: VU040939.D

Acq: 26 Oct 2020 12:46

Instrument :

MSVOA\_U

ClientSampleId :

VICV06

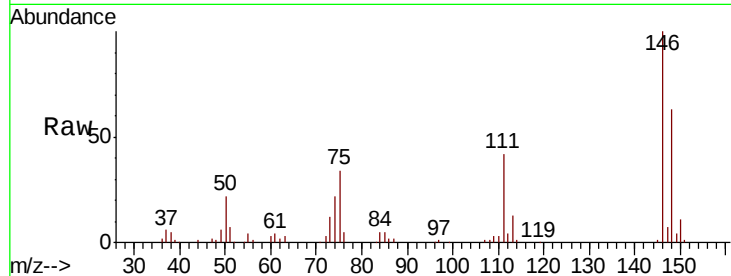
Tot Ion:146 Resp: 56800

Ion Ratio Lower Upper

146 100

111 41.9 30.9 57.3

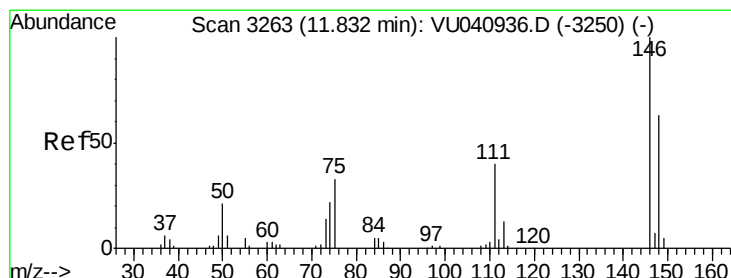
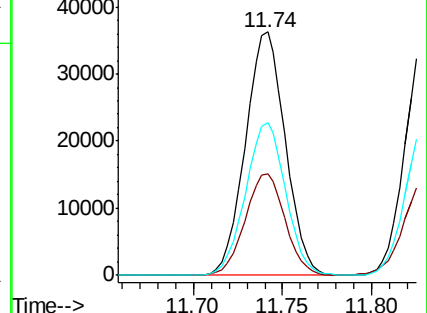
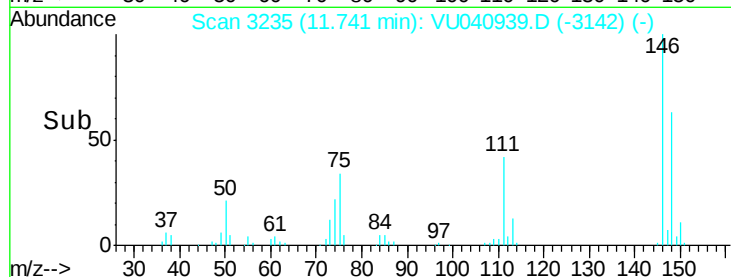
148 62.8 45.8 85.2



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 4.643 ug/L

RT: 11.83 min Scan# 3263

Delta R.T. -0.00 min

Lab File: VU040939.D

Acq: 26 Oct 2020 12:46

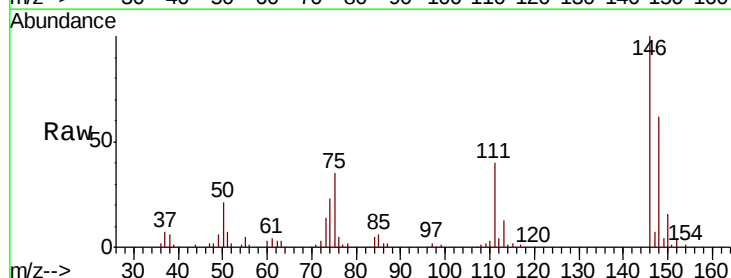
Tgt Ion:146 Resp: 57387

Ion Ratio Lower Upper

146 100

111 40.1 28.3 52.7

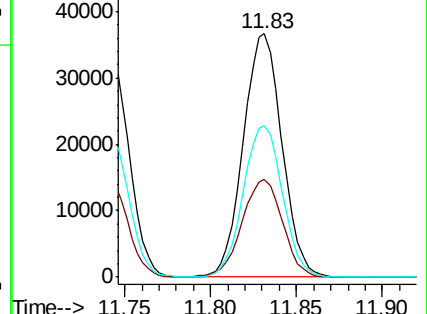
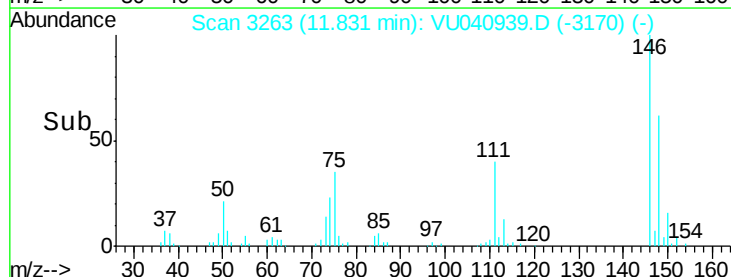
148 62.2 44.2 82.2

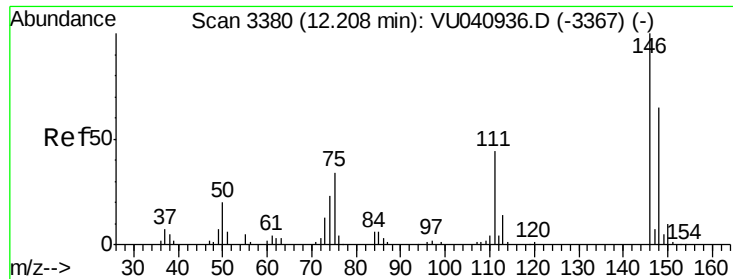


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

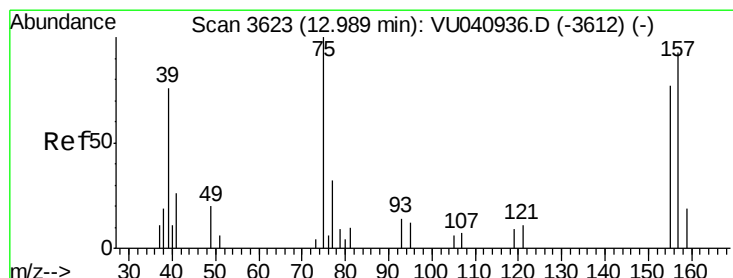
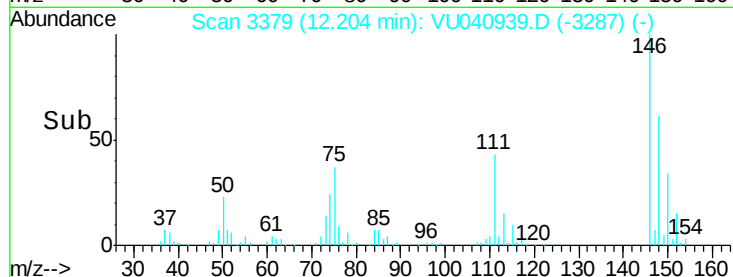
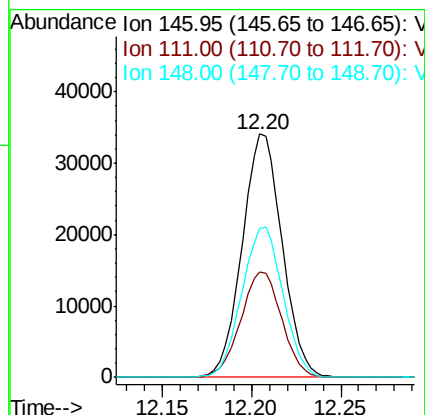
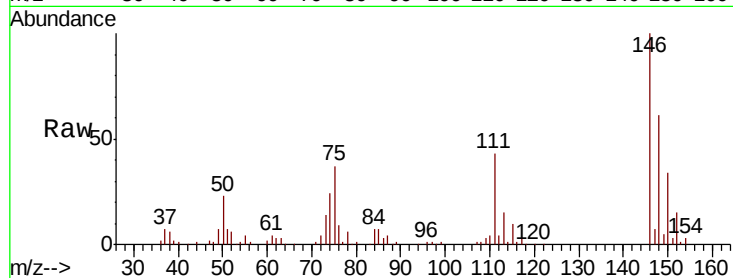




#65  
 1,2-Dichlorobenzene  
 Concen: 4.541 ug/L  
 RT: 12.20 min Scan# 3379  
 Delta R.T. -0.00 min  
 Lab File: VU040939.D  
 Acq: 26 Oct 2020 12:46

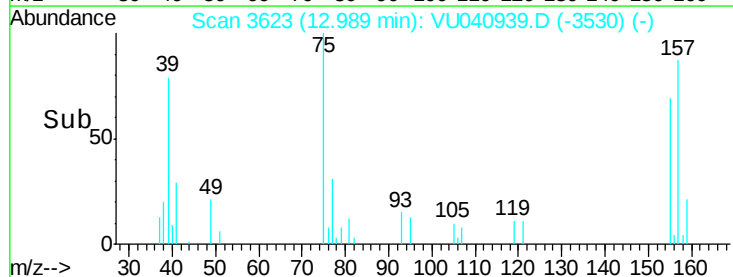
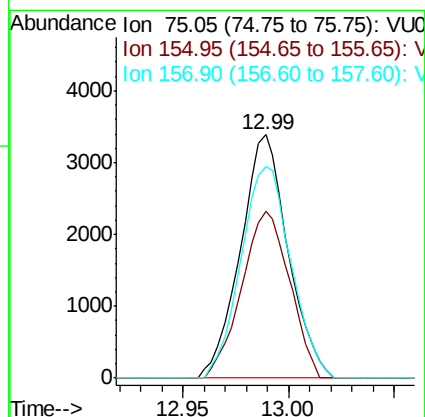
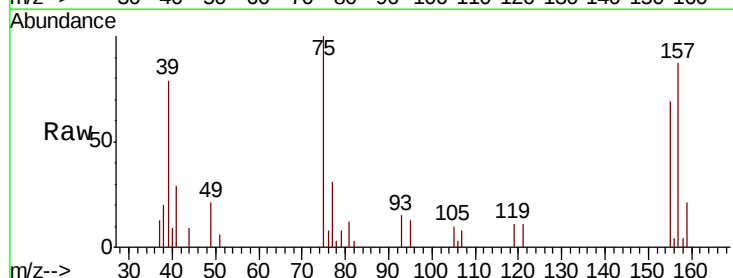
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VICV06

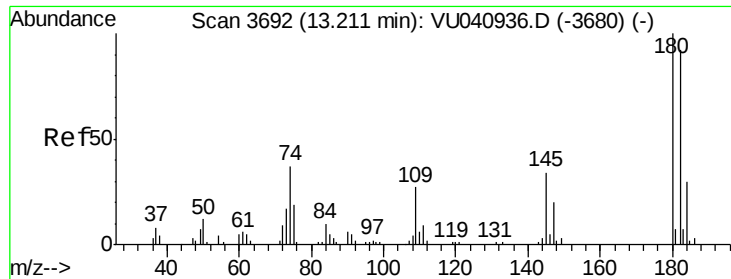
Tot Ion:146 Resp: 53482  
 Ion Ratio Lower Upper  
 146 100  
 111 43.4 35.0 52.6  
 148 61.2 52.0 78.0



#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 4.599 ug/L  
 RT: 12.99 min Scan# 3623  
 Delta R.T. -0.00 min  
 Lab File: VU040939.D  
 Acq: 26 Oct 2020 12:46

Tgt Ion: 75 Resp: 5309  
 Ion Ratio Lower Upper  
 75 100  
 155 68.5 61.4 92.2  
 157 86.7 74.2 111.4

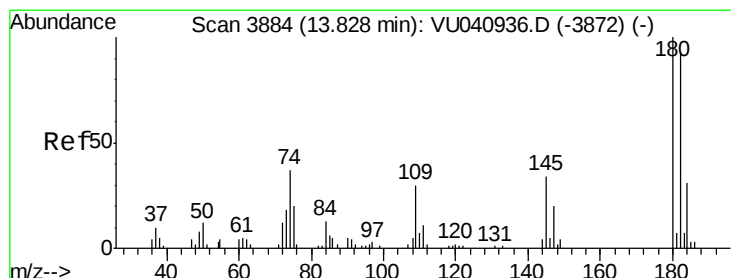
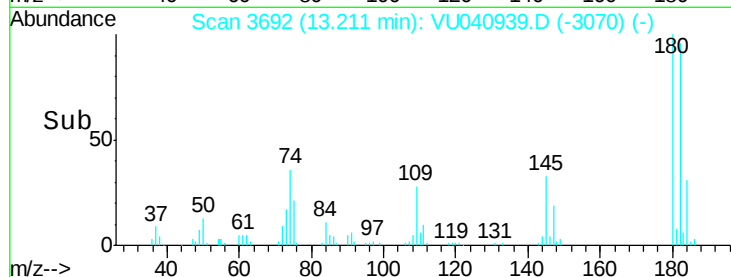
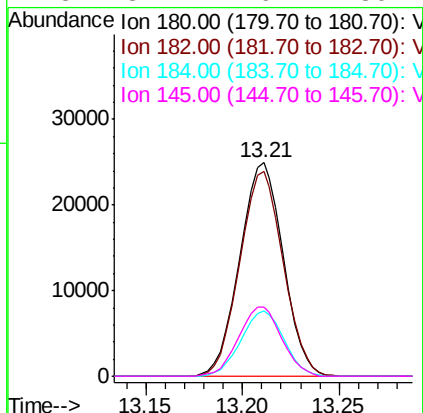
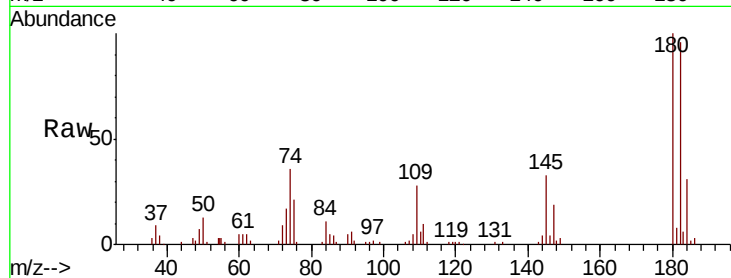




#67  
 1,3,5-Trichlorobenzene  
 Concen: 4.671 ug/L  
 RT: 13.21 min Scan# 3692  
 Delta R.T. -0.00 min  
 Lab File: VU040939.D  
 Acq: 26 Oct 2020 12:46

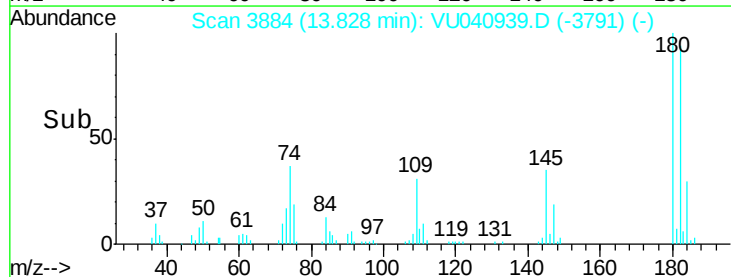
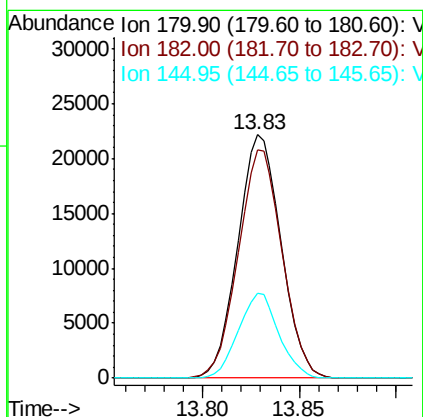
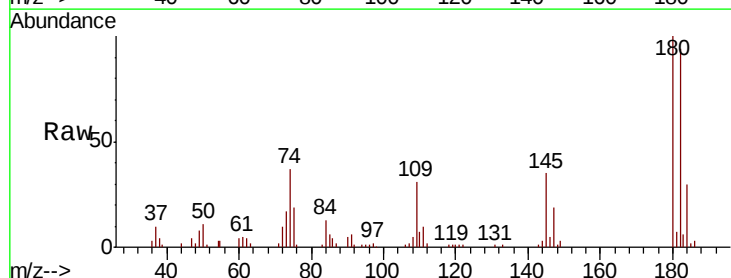
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VICV06

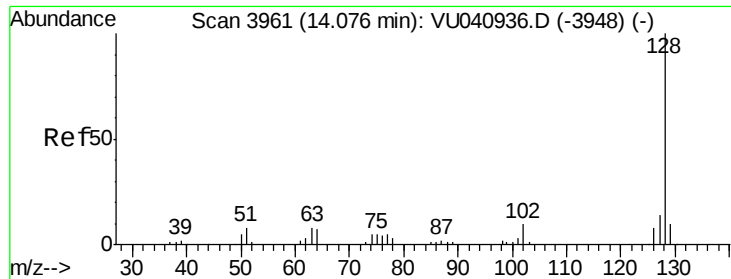
|             |       |             |
|-------------|-------|-------------|
| Tot Ion:180 | Resp: | 38985       |
| Ion         | Ratio | Lower Upper |
| 180         | 100   |             |
| 182         | 96.0  | 75.7 113.5  |
| 184         | 30.2  | 23.7 35.5   |
| 145         | 32.2  | 26.1 39.1   |



#68  
 1,2,4-trichlorobenzene  
 Concen: 4.979 ug/L  
 RT: 13.83 min Scan# 3884  
 Delta R.T. -0.00 min  
 Lab File: VU040939.D  
 Acq: 26 Oct 2020 12:46

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:180 | Resp: | 34429       |
| Ion         | Ratio | Lower Upper |
| 180         | 100   |             |
| 182         | 94.7  | 73.5 110.3  |
| 145         | 32.5  | 26.6 40.0   |

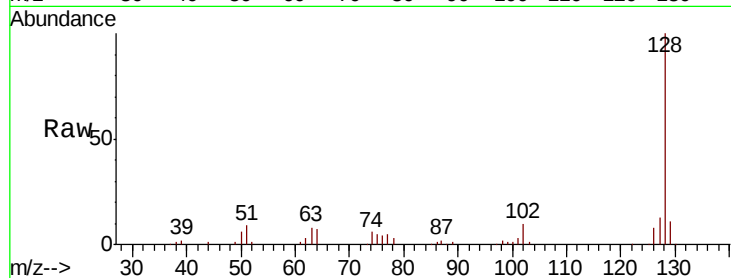




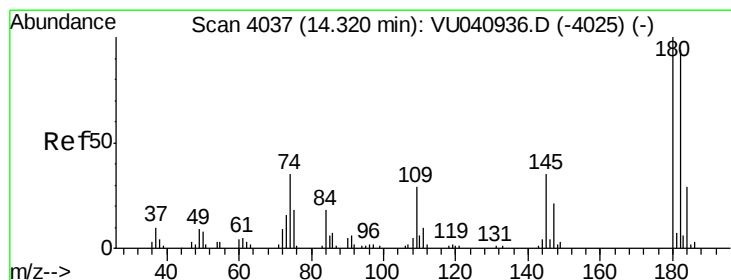
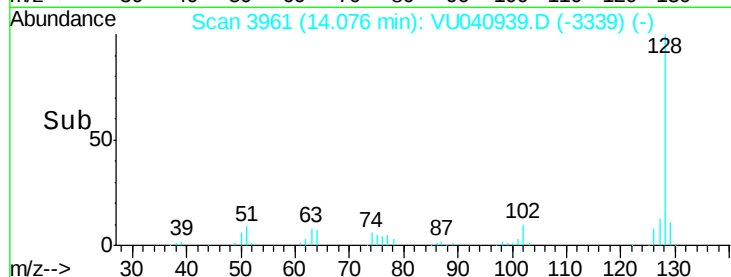
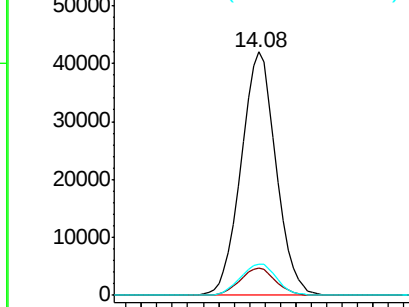
#69  
Naphthalene  
Concen: 5.346 ug/L  
RT: 14.08 min Scan# 3961  
Delta R.T. -0.00 min  
Lab File: VU040939.D  
Acq: 26 Oct 2020 12:46

Instrument :  
MSVOA\_U  
ClientSampled :  
VICV06

Tot Ion:128 Resp: 66095  
Ion Ratio Lower Upper  
128 100  
129 11.3 8.7 13.1  
127 13.3 10.8 16.2

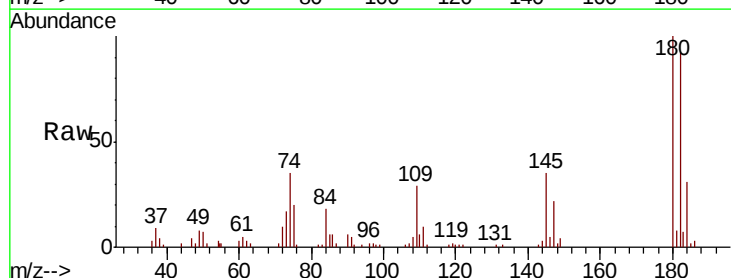


Abundance Ion 128.00 (127.70 to 128.70): V  
Ion 129.00 (128.70 to 129.70): V  
Ion 127.00 (126.70 to 127.70): V



#70  
1,2,3-Trichlorobenzene  
Concen: 5.381 ug/L  
RT: 14.32 min Scan# 4037  
Delta R.T. -0.00 min  
Lab File: VU040939.D  
Acq: 26 Oct 2020 12:46

Tgt Ion:180 Resp: 34295  
Ion Ratio Lower Upper  
180 100  
182 91.6 77.7 116.5  
145 33.3 29.4 44.0



Abundance Ion 179.90 (179.60 to 180.60): V  
Ion 181.90 (181.60 to 182.60): V  
Ion 144.95 (144.65 to 145.65): V

