

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU053120\  
 Data File : VU038405.D  
 Acq On : 30 May 2020 11:13  
 Operator : JC/MD  
 Sample : VSTD0.501  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Jun 01 01:27:15 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR053120WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Mon Jun 01 01:25:33 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.28  | 114  | 340878   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.44  | 117  | 331364   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.83 | 152  | 165883   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |       |      |      |      |
|--------------------------------|-------|-----|-------|------|------|------|
| 4) Vinyl Chloride-d3           | 1.61  | 65  | 11806 | 0.54 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.93  | 69  | 8851  | 0.52 | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 2.59  | 63  | 23745 | 0.55 | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 4.69  | 46  | 33292 | 4.97 | ug/L | 0.00 |
| 24) Chloroform-d               | 5.10  | 84  | 21832 | 0.53 | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.74  | 65  | 12916 | 0.55 | ug/L | 0.00 |
| 32) Benzene-d6                 | 5.76  | 84  | 43083 | 0.52 | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 6.72  | 67  | 13737 | 0.54 | ug/L | 0.00 |
| 41) Toluene-d8                 | 7.92  | 98  | 38786 | 0.52 | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 8.20  | 79  | 5653  | 0.52 | ug/L | 0.00 |
| 46) 2-Hexanone-d5              | 8.66  | 63  | 26759 | 4.95 | ug/L | 0.00 |
| 57) 1,1,2,2-Tetrachloroethane- | 10.77 | 84  | 11126 | 0.52 | ug/L | 0.00 |
| 64) 1,2-Dichlorobenzene-d4     | 12.20 | 152 | 15902 | 0.56 | ug/L | 0.00 |

## Target Compounds

|                                |      |     |       |              | Qvalue |
|--------------------------------|------|-----|-------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.39 | 85  | 14955 | 0.557 ug/L   | 97     |
| 3) Chloromethane               | 1.53 | 50  | 13564 | 0.550 ug/L   | 98     |
| 5) Vinyl chloride              | 1.62 | 62  | 14441 | 0.546 ug/L   | 99     |
| 6) Bromomethane                | 1.87 | 94  | 6696  | 0.522 ug/L   | 94     |
| 8) Chloroethane                | 1.95 | 64  | 8650  | 0.546 ug/L   | 97     |
| 9) Trichlorofluoromethane      | 2.16 | 101 | 19544 | 0.557 ug/L   | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.61 | 101 | 11588 | 0.561 ug/L   | 97     |
| 12) 1,1-Dichloroethene         | 2.61 | 96  | 11992 | 0.571 ug/L   | 89     |
| 13) Acetone                    | 2.69 | 43  | 23840 | 5.435 ug/L   | 71     |
| 14) Carbon disulfide           | 2.82 | 76  | 39569 | 0.555 ug/L   | 97     |
| 15) Methyl Acetate             | 3.00 | 43  | 5400  | 0.503 ug/L # | 80     |
| 16) Methylene chloride         | 3.08 | 84  | 13974 | 0.588 ug/L   | 98     |
| 17) Methyl tert-butyl Ether    | 3.40 | 73  | 27155 | 0.493 ug/L   | 99     |
| 18) trans-1,2-Dichloroethene   | 3.39 | 96  | 12376 | 0.547 ug/L   | 96     |
| 19) 1,1-Dichloroethane         | 3.91 | 63  | 21447 | 0.530 ug/L   | 98     |
| 21) 2-Butanone                 | 4.77 | 43  | 37073 | 5.025 ug/L   | 89     |
| 22) cis-1,2-Dichloroethene     | 4.71 | 96  | 13527 | 0.555 ug/L   | 91     |
| 23) Bromochloromethane         | 5.01 | 128 | 6342  | 0.578 ug/L   | 90     |
| 25) Chloroform                 | 5.13 | 83  | 21725 | 0.528 ug/L   | 95     |
| 27) 1,2-Dichloroethane         | 5.83 | 62  | 16154 | 0.558 ug/L   | 97     |
| 29) 1,1,1-Trichloroethane      | 5.35 | 97  | 18734 | 0.534 ug/L   | 99     |
| 30) Cyclohexane                | 5.42 | 56  | 20268 | 0.551 ug/L   | 98     |
| 31) Carbon tetrachloride       | 5.56 | 117 | 15404 | 0.528 ug/L   | 93     |
| 33) Benzene                    | 5.81 | 78  | 49836 | 0.539 ug/L   | 100    |
| 34) Trichloroethene            | 6.57 | 95  | 13502 | 0.563 ug/L   | 96     |
| 35) Methylcyclohexane          | 6.79 | 83  | 20634 | 0.556 ug/L   | 97     |
| 37) 1,2-Dichloropropane        | 6.83 | 63  | 12252 | 0.527 ug/L   | 98     |
| 38) Bromodichloromethane       | 7.13 | 83  | 14966 | 0.518 ug/L   | 94     |
| 39) cis-1,3-Dichloropropene    | 7.63 | 75  | 16865 | 0.491 ug/L   | 97     |
| 40) 4-Methyl-2-pentanone       | 7.82 | 43  | 86733 | 5.216 ug/L   | 99     |

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 Data File : VU038405.D  
 Acq On : 30 May 2020 11:13  
 Operator : JC/MD  
 Sample : VSTD0.501  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 1 Sample Multiplier: 1

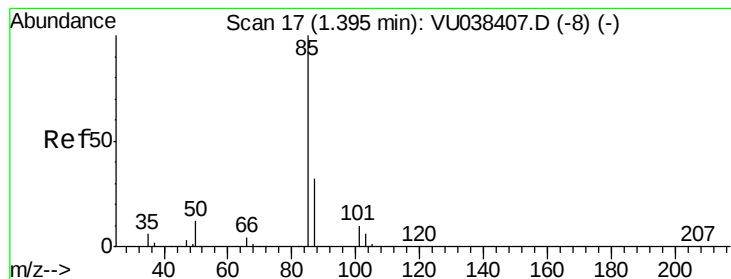
Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Jun 01 01:27:15 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR053120WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Mon Jun 01 01:25:33 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| -----                          |       |      |          |       |        |          |
| 42) Toluene                    | 7.99  | 91   | 50232    | 0.518 | ug/L   | 99       |
| 44) trans-1,3-Dichloropropene  | 8.23  | 75   | 14825    | 0.488 | ug/L   | 96       |
| 45) 1,1,2-Trichloroethane      | 8.42  | 97   | 9294     | 0.530 | ug/L   | 95       |
| 47) Tetrachloroethene          | 8.57  | 164  | 9515     | 0.546 | ug/L   | 92       |
| 48) 2-Hexanone                 | 8.71  | 43   | 65801    | 5.225 | ug/L   | 100      |
| 49) Dibromochloromethane       | 8.83  | 129  | 9505     | 0.502 | ug/L   | 98       |
| 50) 1,2-Dibromoethane          | 8.94  | 107  | 8763     | 0.522 | ug/L # | 99       |
| 51) Chlorobenzene              | 9.46  | 112  | 33883    | 0.542 | ug/L   | 98       |
| 52) Ethylbenzene               | 9.59  | 91   | 56566    | 0.525 | ug/L   | 97       |
| 53) m,p-Xylene                 | 9.71  | 106  | 21251    | 0.512 | ug/L   | 95       |
| 54) o-Xylene                   | 10.12 | 106  | 19893    | 0.500 | ug/L   | 98       |
| 55) Styrene                    | 10.13 | 104  | 32584    | 0.482 | ug/L   | 99       |
| 56) Isopropylbenzene           | 10.50 | 105  | 53073    | 0.507 | ug/L   | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.80 | 83   | 11948    | 0.536 | ug/L   | 97       |
| 59) 1,2,3-Trichloropropane     | 10.84 | 75   | 9486     | 0.547 | ug/L   | 94       |
| 61) Bromoform                  | 10.31 | 173  | 4876     | 0.472 | ug/L # | 94       |
| 62) 1,3-Dichlorobenzene        | 11.76 | 146  | 26764    | 0.549 | ug/L   | 98       |
| 63) 1,4-Dichlorobenzene        | 11.85 | 146  | 27659    | 0.560 | ug/L   | 97       |
| 65) 1,2-Dichlorobenzene        | 12.22 | 146  | 25025    | 0.541 | ug/L   | 96       |
| 66) 1,2-Dibromo-3-chloropropan | 13.02 | 75   | 2141     | 0.571 | ug/L   | 97       |
| 67) 1,3,5-Trichlorobenzene     | 13.24 | 180  | 20285    | 0.558 | ug/L   | 99       |
| 68) 1,2,4-trichlorobenzene     | 13.87 | 180  | 18528    | 0.551 | ug/L   | 98       |
| 69) Naphthalene                | 14.12 | 128  | 34737    | 0.519 | ug/L   | 98       |
| 70) 1,2,3-Trichlorobenzene     | 14.36 | 180  | 16832    | 0.550 | ug/L   | 99       |
| -----                          |       |      |          |       |        |          |

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





#2

Dichlorodifluoromethane

Concen: 0.557 ug/L

RT: 1.39 min Scan# 17

Delta R.T. -0.00 min

Lab File: VU038405.D

Acq: 30 May 2020 11:13

Instrument :

MSVOA\_U

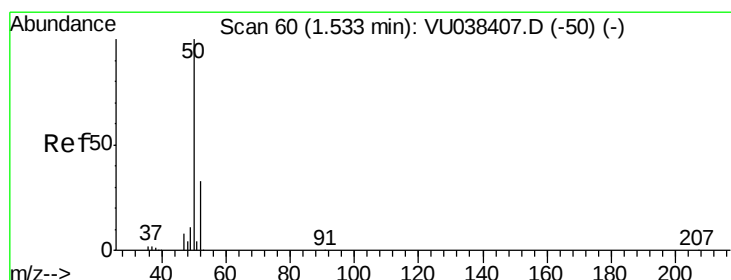
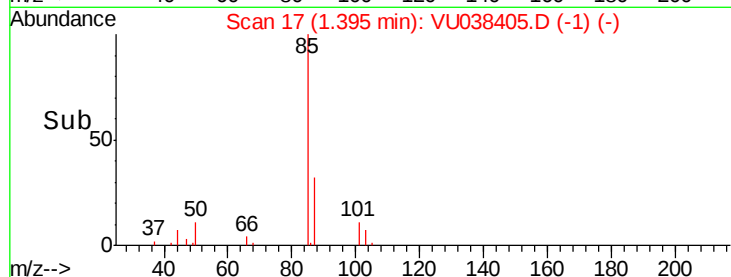
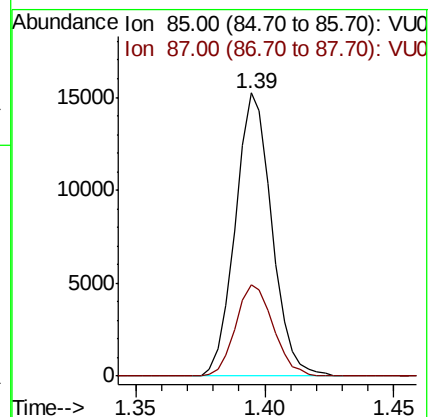
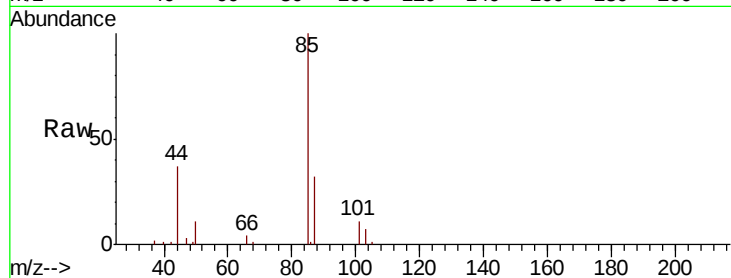
ClientSampleId :

Tot Ion: 85 Resp: 14955

Ion Ratio Lower Upper

85 100

87 33.2 25.2 37.8



#3

Chloromethane

Concen: 0.550 ug/L

RT: 1.53 min Scan# 60

Delta R.T. -0.00 min

Lab File: VU038405.D

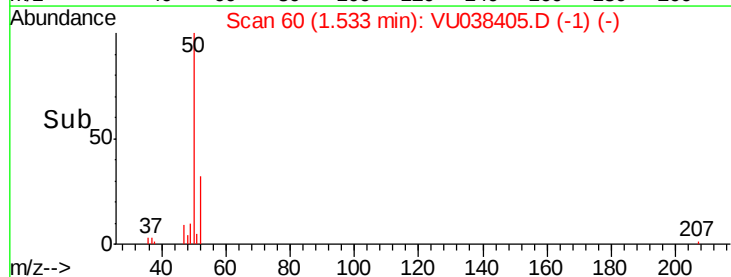
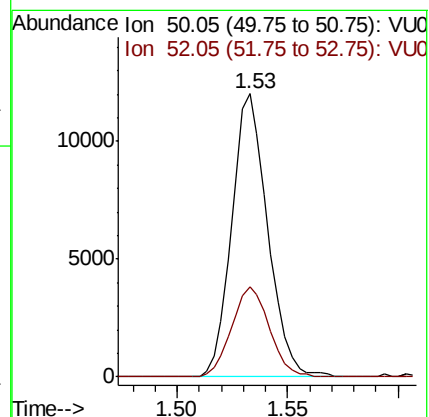
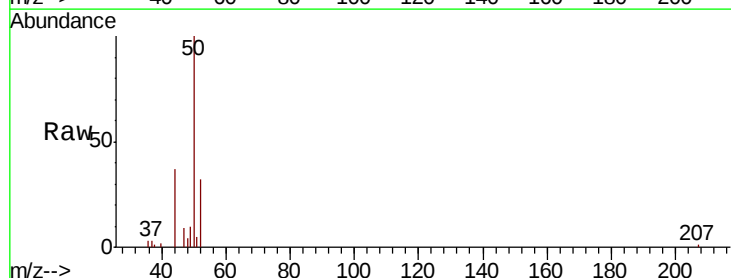
Acq: 30 May 2020 11:13

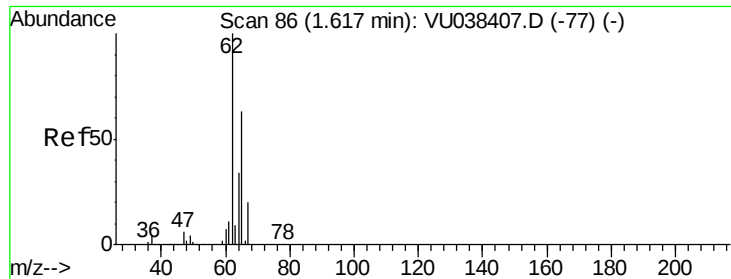
Tgt Ion: 50 Resp: 13564

Ion Ratio Lower Upper

50 100

52 31.6 22.9 42.5





#5

Vinyl chloride

Concen: 0.546 ug/L

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU038405.D

Acq: 30 May 2020 11:13

Instrument :

MSVOA\_U

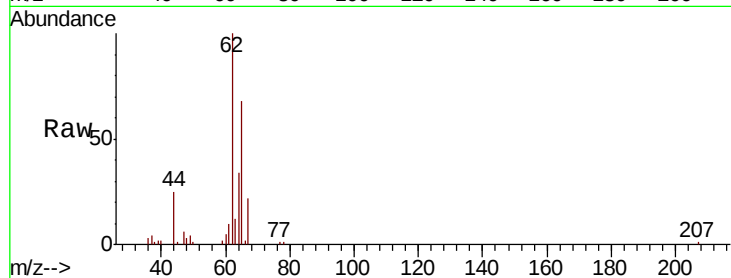
ClientSampled :

Tot Ion: 62 Resp: 14441

Ion Ratio Lower Upper

62 100

64 34.4 23.7 43.9



Abundance Ion 62.00 (61.70 to 62.70): VU038405.D (-77) (-)

Ion 64.10 (63.80 to 64.80): VU038405.D (-77) (-)

1.62

15000

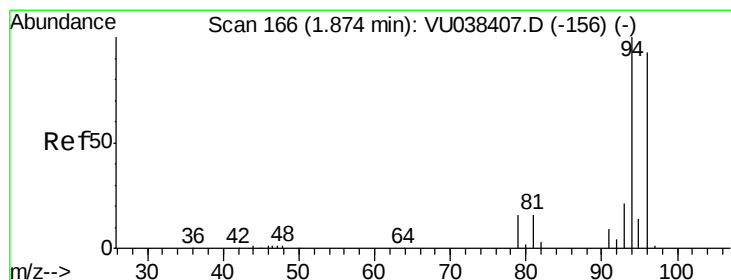
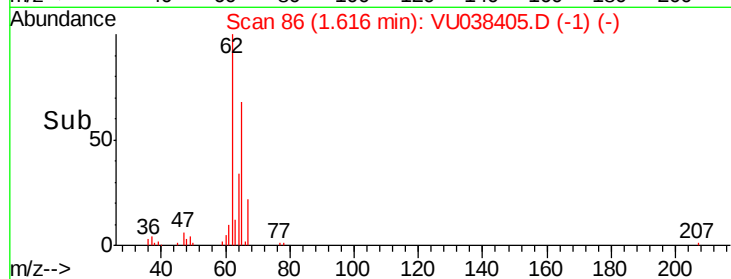
10000

5000

0

Time-->

1.60 1.65



#6

Bromomethane

Concen: 0.522 ug/L

RT: 1.87 min Scan# 166

Delta R.T. -0.00 min

Lab File: VU038405.D

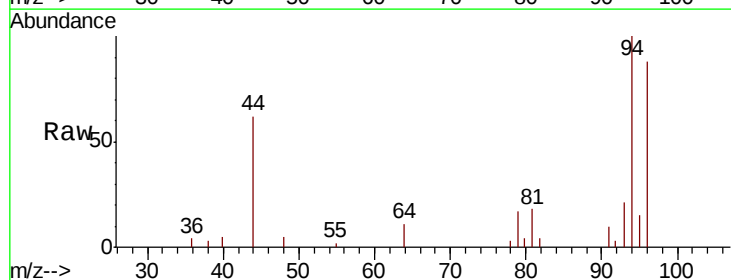
Acq: 30 May 2020 11:13

Tgt Ion: 94 Resp: 6696

Ion Ratio Lower Upper

94 100

96 87.7 65.5 121.6



Abundance Ion 94.00 (93.70 to 94.70): VU038405.D (-156) (-)

Ion 96.00 (95.70 to 96.70): VU038405.D (-156) (-)

1.87

6000

5000

4000

3000

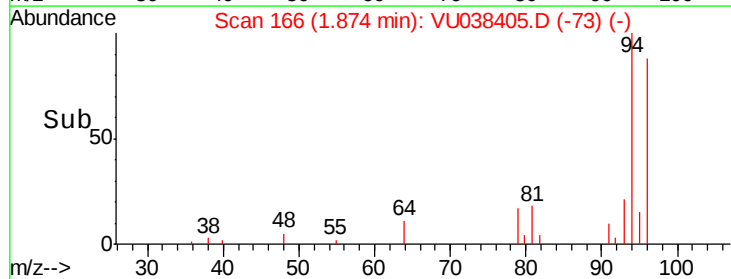
2000

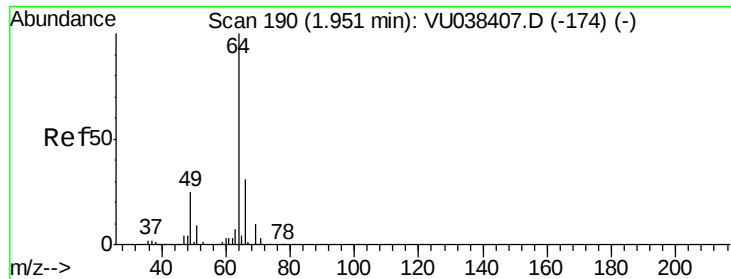
1000

0

Time-->

1.85 1.90





#8

Chloroethane

Concen: 0.546 ug/L

RT: 1.95 min Scan# 190

Delta R.T. -0.00 min

Lab File: VU038405.D

Acq: 30 May 2020 11:13

Instrument :

MSVOA\_U

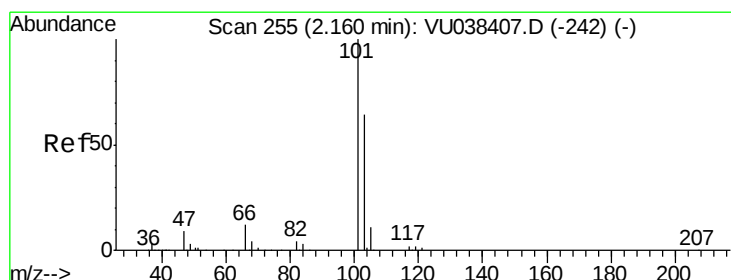
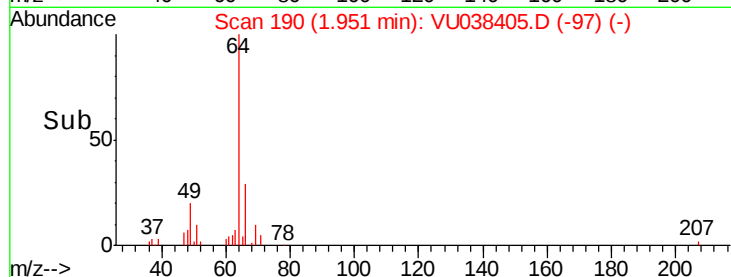
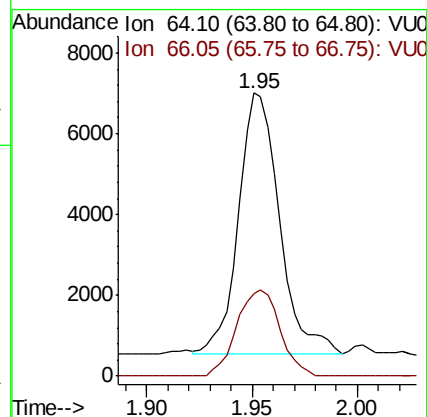
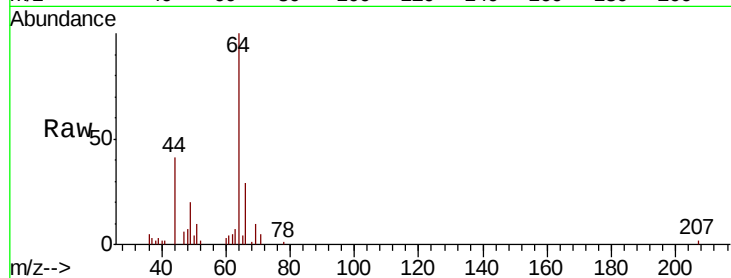
ClientSampleId :

Tot Ion: 64 Resp: 8650

Ion Ratio Lower Upper

64 100

66 29.2 21.5 39.9



#9

Trichlorofluoromethane

Concen: 0.557 ug/L

RT: 2.16 min Scan# 255

Delta R.T. -0.00 min

Lab File: VU038405.D

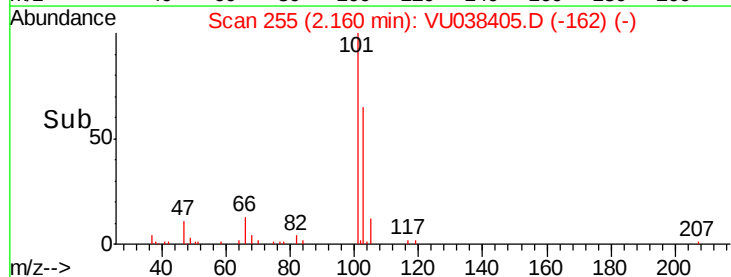
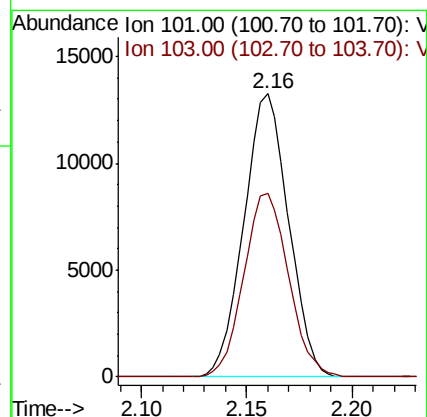
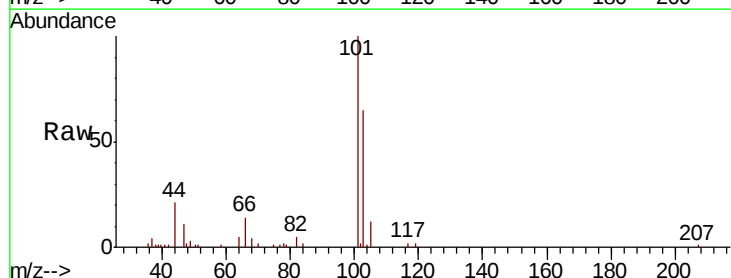
Acq: 30 May 2020 11:13

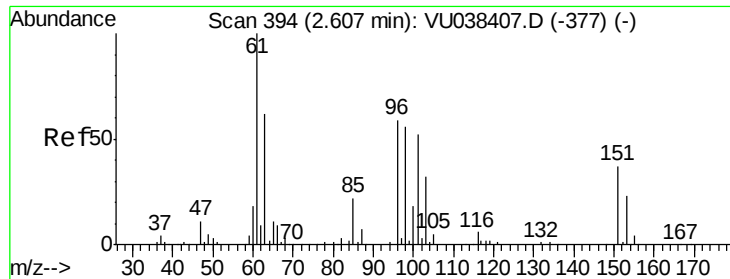
Tgt Ion: 101 Resp: 19544

Ion Ratio Lower Upper

101 100

103 64.8 51.1 76.7





#10

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

Concen: 0.561 ug/L

RT: 2.61 min Scan# 394

Delta R.T. -0.00 min

Lab File: VU038405.D

Acq: 30 May 2020 11:13

Instrument :

MSVOA\_U

ClientSampleId :

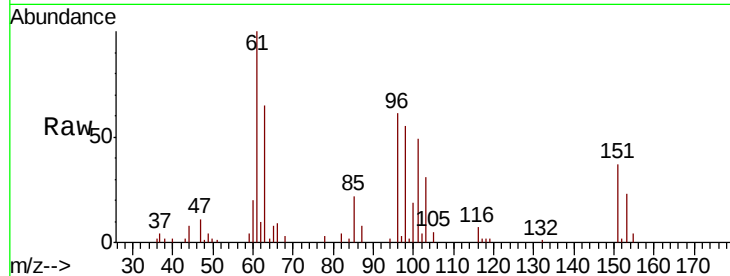
Tot Ion:101 Resp: 11588

Ion Ratio Lower Upper

101 100

85 40.5 34.0 51.0

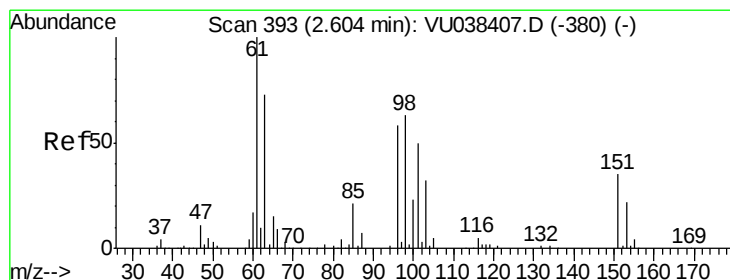
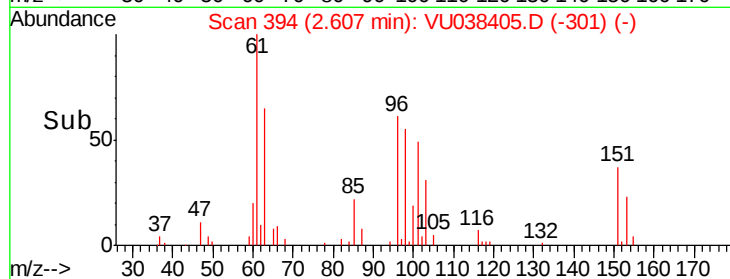
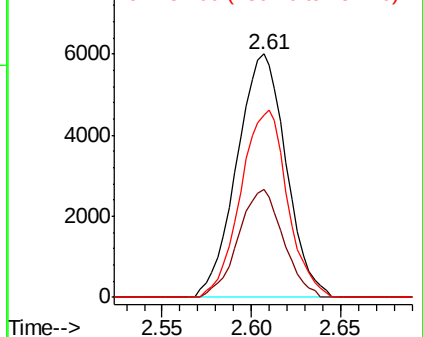
151 73.2 56.9 85.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 0.571 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU038405.D

Acq: 30 May 2020 11:13

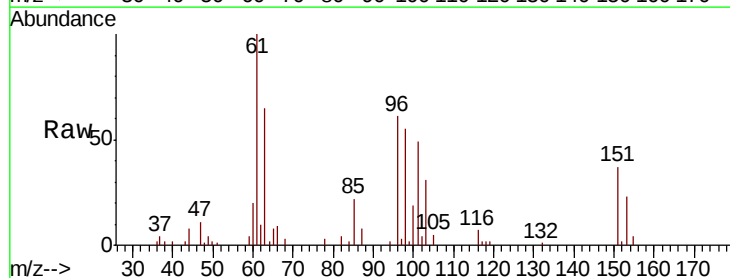
Tgt Ion: 96 Resp: 11992

Ion Ratio Lower Upper

96 100

61 164.2 119.9 222.7

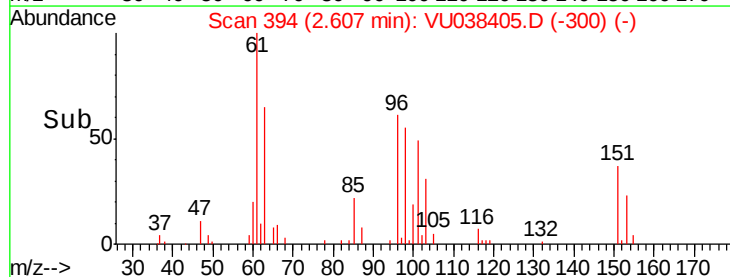
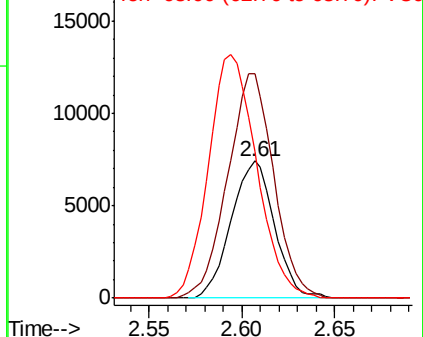
63 106.9 89.9 167.0

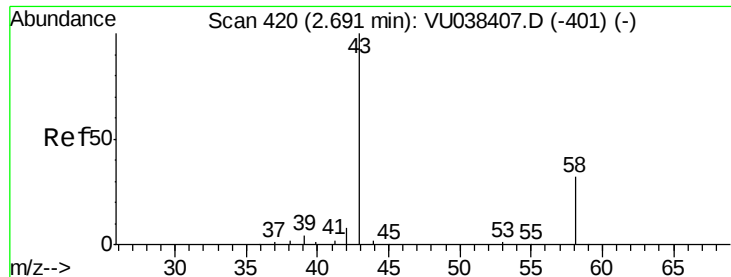


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 5.435 ug/L

RT: 2.69 min Scan# 421

Delta R.T. 0.00 min

Lab File: VU038405.D

Acq: 30 May 2020 11:13

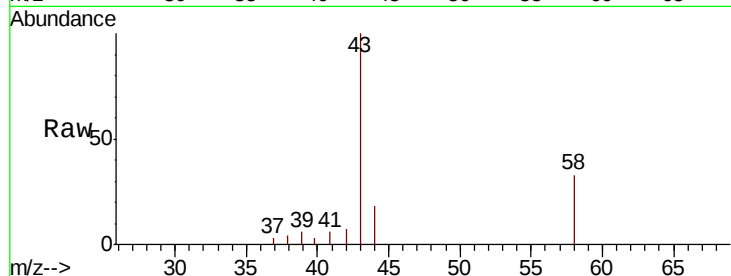
Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 43 Resp: 23840

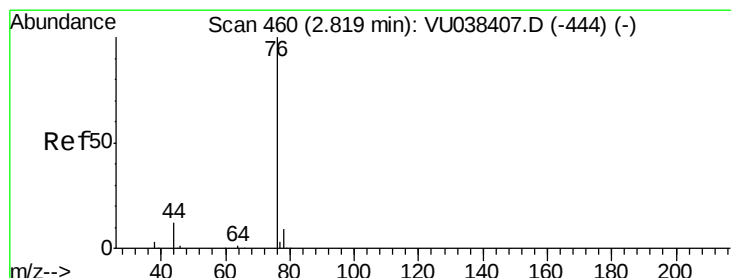
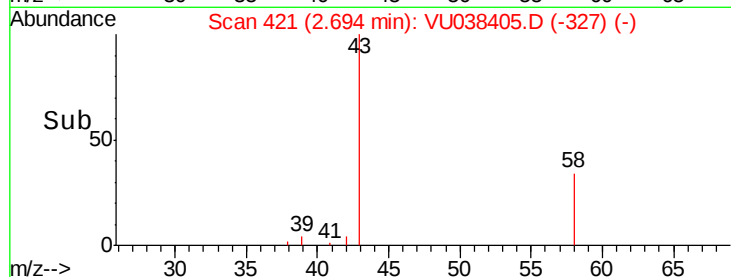
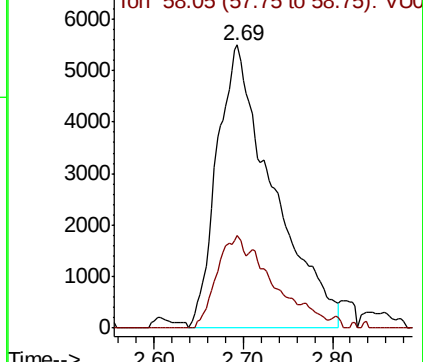
Ion Ratio Lower Upper

43 100

58 16.2 0.0 65.6



Abundance Ion 43.05 (42.75 to 43.75): VU038407.D (-401) (-)



#14

Carbon disulfide

Concen: 0.555 ug/L

RT: 2.82 min Scan# 461

Delta R.T. 0.00 min

Lab File: VU038405.D

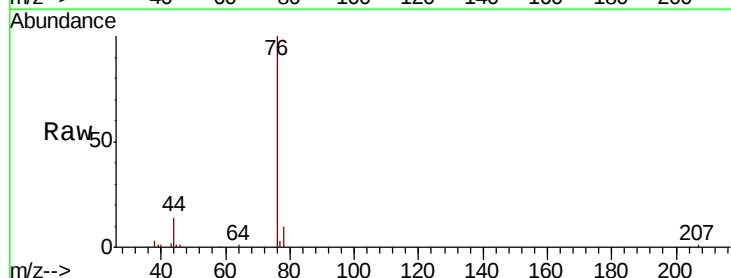
Acq: 30 May 2020 11:13

Tgt Ion: 76 Resp: 39569

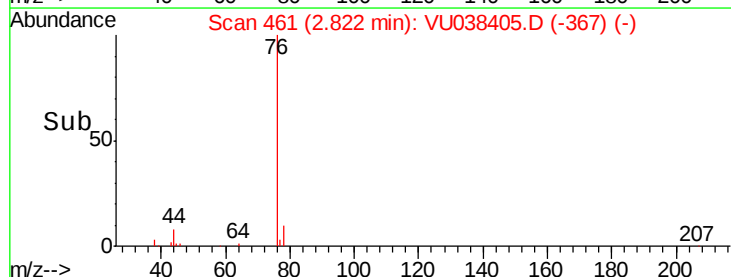
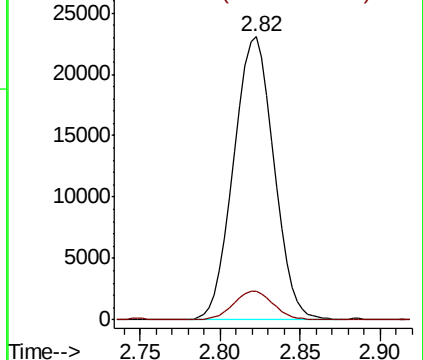
Ion Ratio Lower Upper

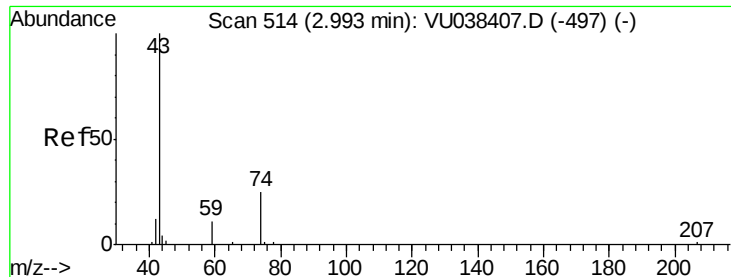
76 100

78 10.1 7.3 10.9



Abundance Ion 76.05 (75.75 to 76.75): VU038407.D (-444) (-)





#15

Methvl Acetate

Concen: 0.503 ug/L

RT: 3.00 min Scan# 515

Delta R.T. 0.00 min

Lab File: VU038405.D

Acq: 30 May 2020 11:13

Instrument :

MSVOA\_U

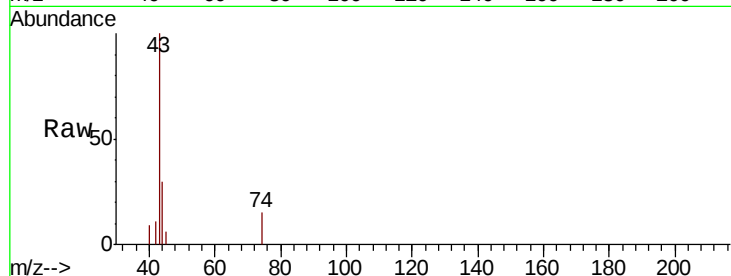
ClientSampleId :

Tot Ion: 43 Resp: 5400

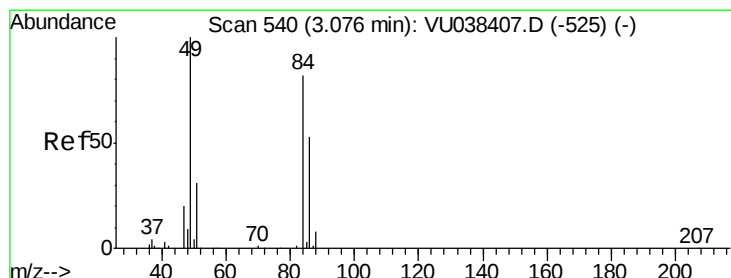
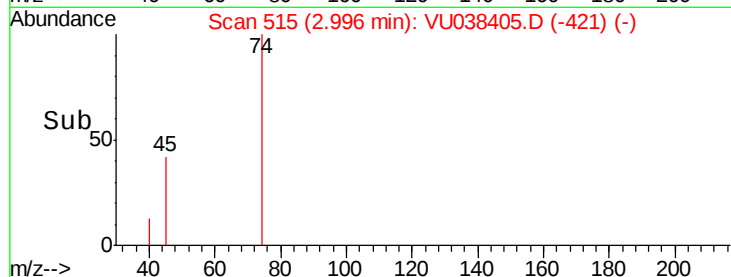
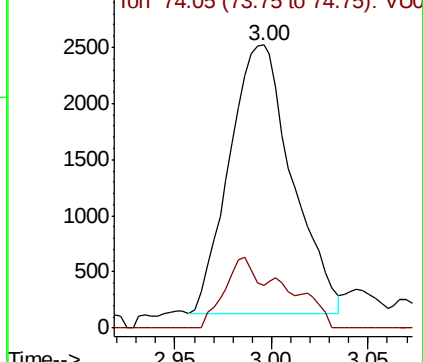
Ion Ratio Lower Upper

43 100

74 14.1 19.2 28.8#



Abundance Ion 43.05 (42.75 to 43.75): VU038407.D (-497) (-)



#16

Methylene chloride

Concen: 0.588 ug/L

RT: 3.08 min Scan# 541

Delta R.T. 0.00 min

Lab File: VU038405.D

Acq: 30 May 2020 11:13

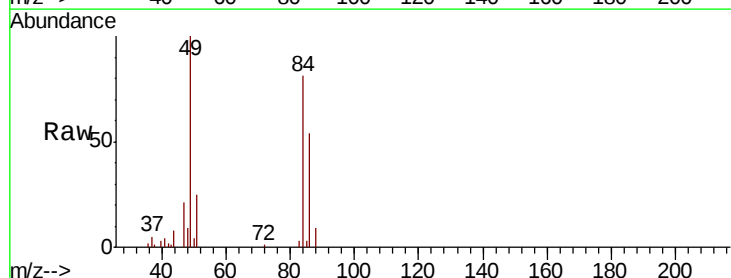
Tgt Ion: 84 Resp: 13974

Ion Ratio Lower Upper

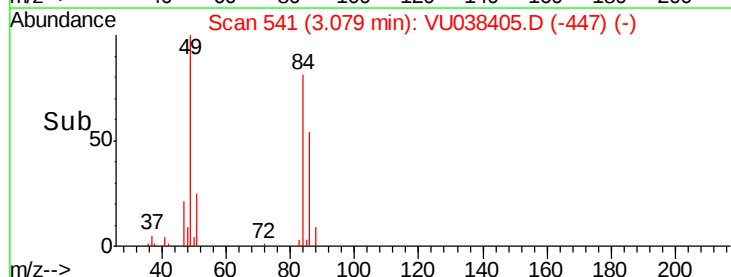
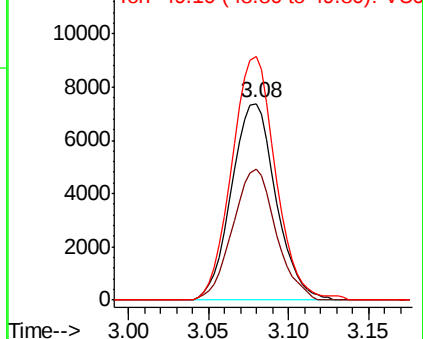
84 100

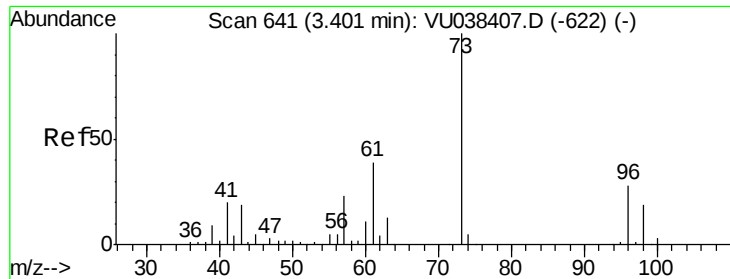
86 66.7 45.0 83.6

49 124.0 85.5 158.9



Abundance Ion 84.05 (83.75 to 84.75): VU038407.D (-525) (-)



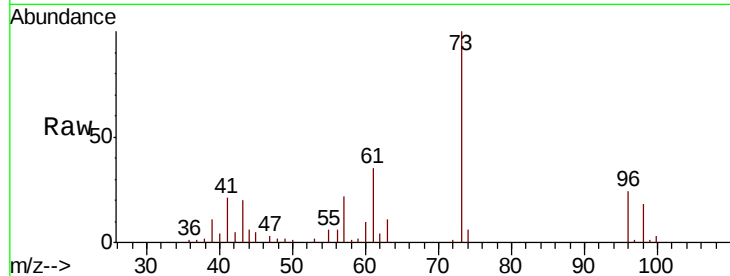


#17

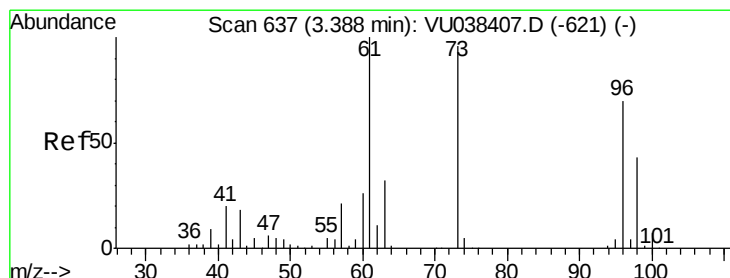
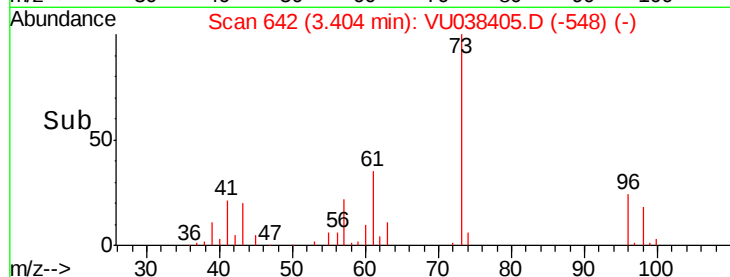
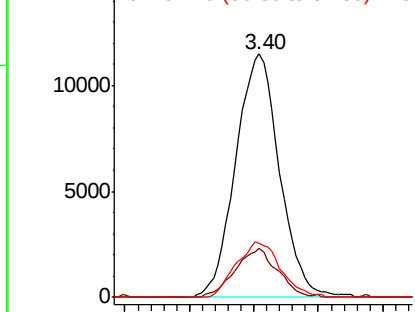
Methvl tert-butvl Ether  
 Concen: 0.493 ug/L  
 RT: 3.40 min Scan# 642  
 Delta R.T. 0.00 min  
 Lab File: VU038405.D  
 Acq: 30 May 2020 11:13

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Tot Ion: 73 Resp: 27155  
 Ion Ratio Lower Upper  
 73 100  
 43 19.4 15.5 23.3  
 57 23.0 17.8 26.6



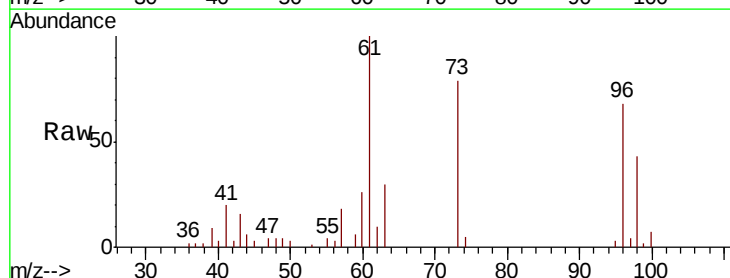
Abundance Ion 73.10 (72.80 to 73.80): VU0  
 Ion 43.05 (42.75 to 43.75): VU0  
 Ion 57.10 (56.80 to 57.80): VU0



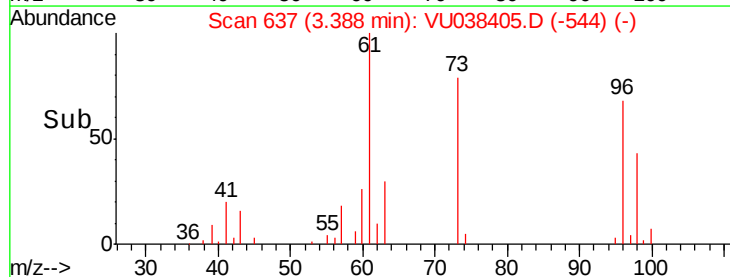
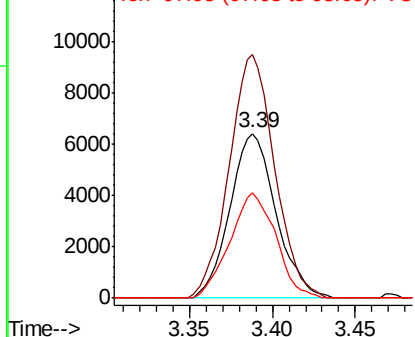
#18

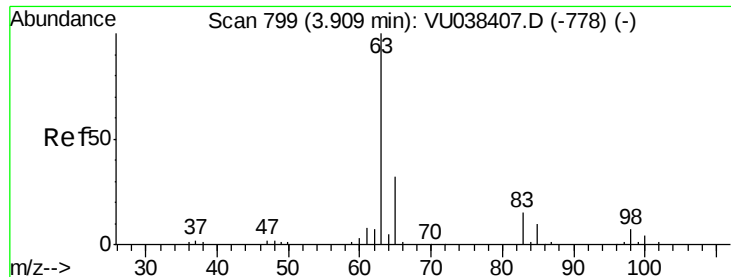
trans-1,2-Dichloroethene  
 Concen: 0.547 ug/L  
 RT: 3.39 min Scan# 637  
 Delta R.T. -0.00 min  
 Lab File: VU038405.D  
 Acq: 30 May 2020 11:13

Tgt Ion: 96 Resp: 12376  
 Ion Ratio Lower Upper  
 96 100  
 61 148.0 100.2 186.0  
 98 64.0 42.8 79.4



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

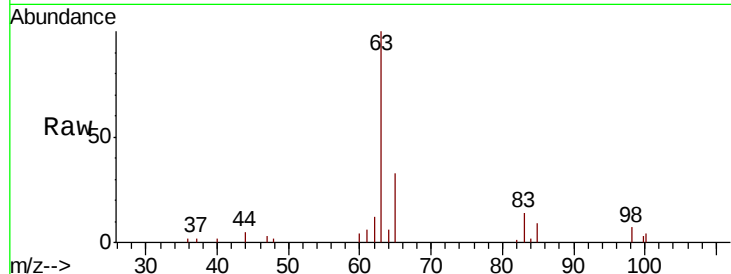




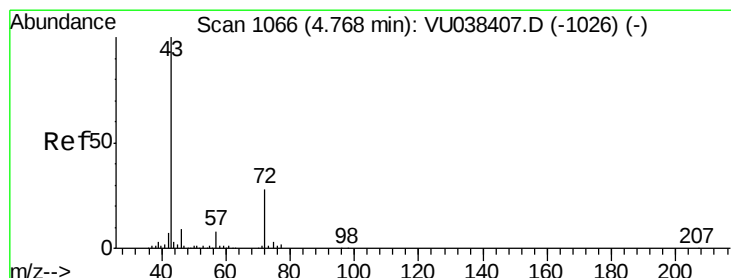
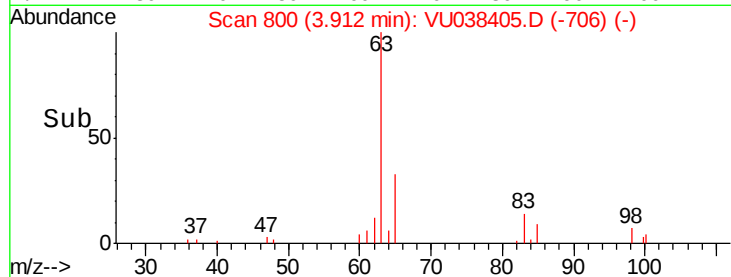
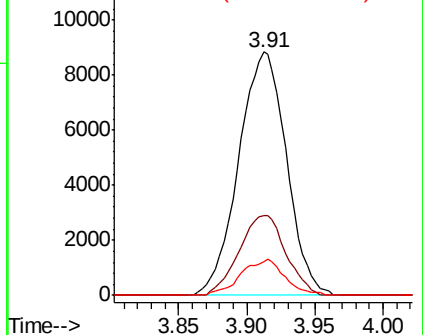
#19  
 1,1-Dichloroethane  
 Concen: 0.530 ug/L  
 RT: 3.91 min Scan# 800  
 Delta R.T. 0.00 min  
 Lab File: VU038405.D  
 Acq: 30 May 2020 11:13

Instrument :  
 MSVOA\_U  
 ClientSampled :

Tot Ion: 63 Resp: 21447  
 Ion Ratio Lower Upper  
 63 100  
 65 32.9 22.3 41.5  
 83 13.9 10.4 19.4

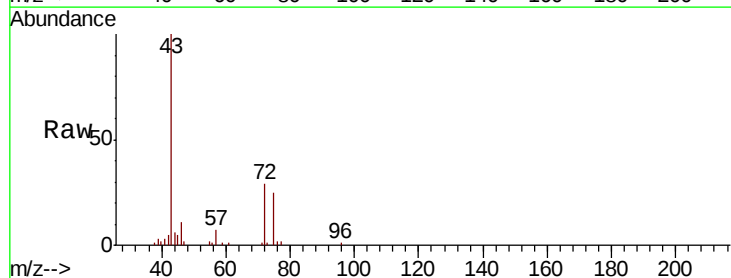


Abundance Ion 63.10 (62.80 to 63.80): VU0  
 Ion 65.10 (64.80 to 65.80): VU0  
 Ion 83.05 (82.75 to 83.75): VU0

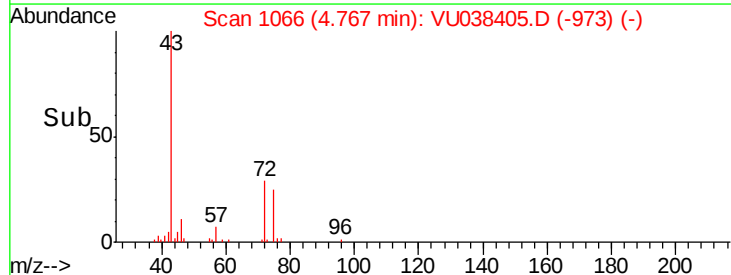
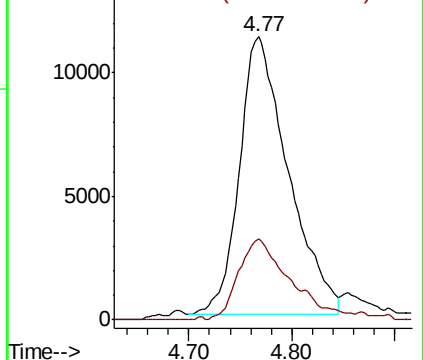


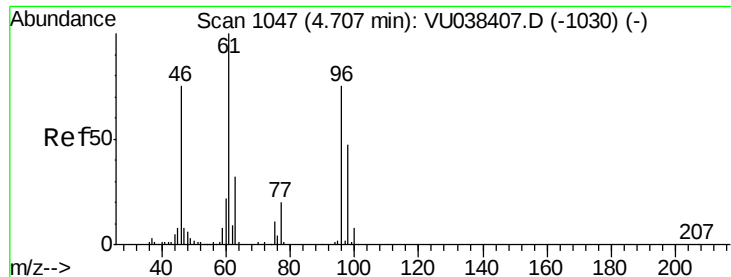
#21  
 2-Butanone  
 Concen: 5.025 ug/L  
 RT: 4.77 min Scan# 1066  
 Delta R.T. -0.00 min  
 Lab File: VU038405.D  
 Acq: 30 May 2020 11:13

Tgt Ion: 43 Resp: 37073  
 Ion Ratio Lower Upper  
 43 100  
 72 31.0 12.6 37.8



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: 0.555 ug/L

RT: 4.71 min Scan# 1048

Delta R.T. 0.00 min

Lab File: VU038405.D

Acq: 30 May 2020 11:13

Instrument :  
MSVOA\_U  
ClientSampled :

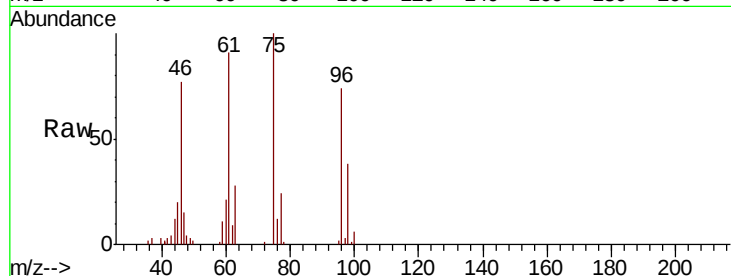
Tot Ion: 96 Resp: 13527

Ion Ratio Lower Upper

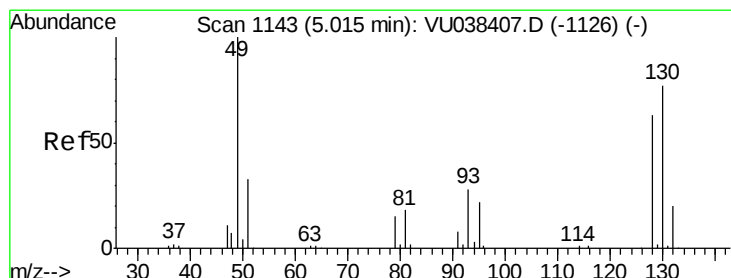
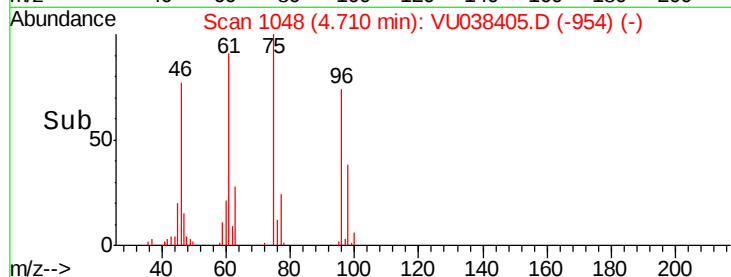
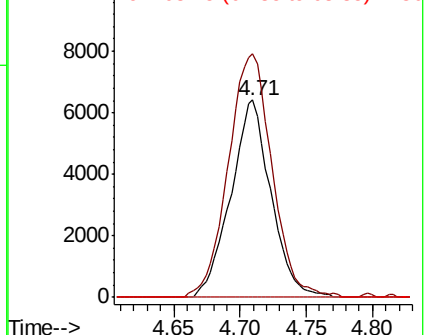
96 100

61 123.6 94.0 174.6

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0  
Ion 61.05 (60.75 to 61.75): VU0  
Ion 68.15 (67.85 to 68.85): VU0



#23

Bromochloromethane

Concen: 0.578 ug/L

RT: 5.01 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VU038405.D

Acq: 30 May 2020 11:13

Tgt Ion: 128 Resp: 6342

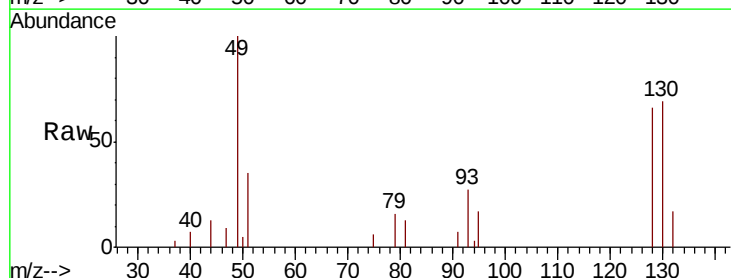
Ion Ratio Lower Upper

128 100

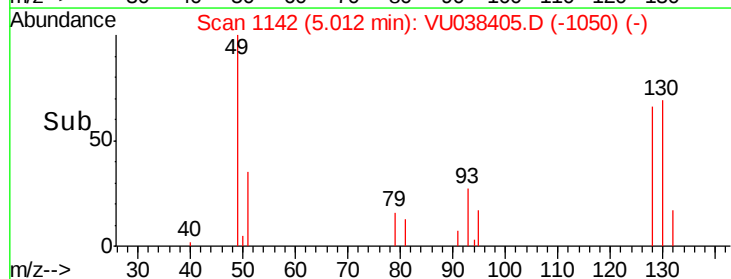
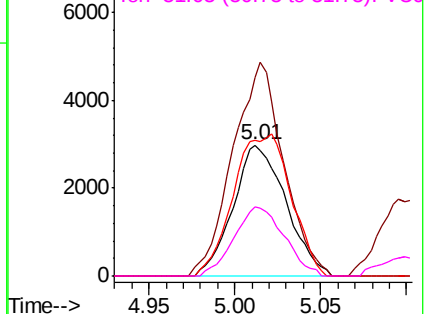
49 151.5 111.9 207.7

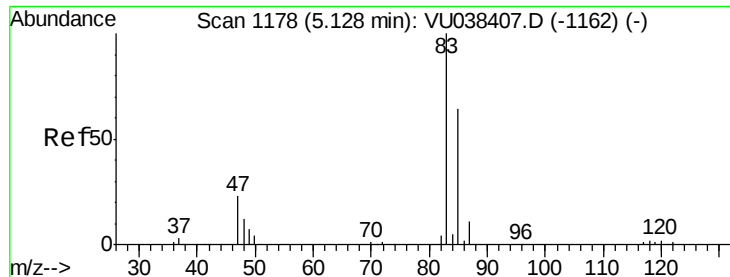
130 104.3 86.5 160.7

51 53.2 41.7 62.5



Abundance Ion 127.90 (127.60 to 128.60): V  
Ion 49.10 (48.80 to 49.80): VU0  
Ion 129.95 (129.65 to 130.65): V  
Ion 51.05 (50.75 to 51.75): VU0

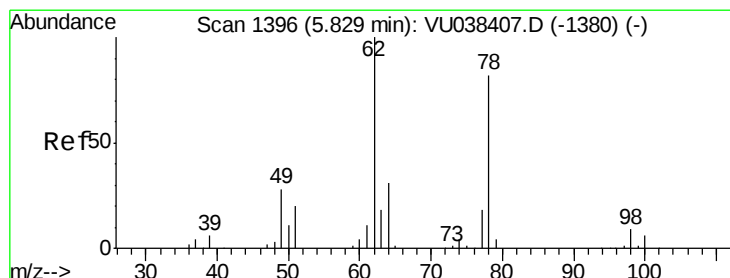
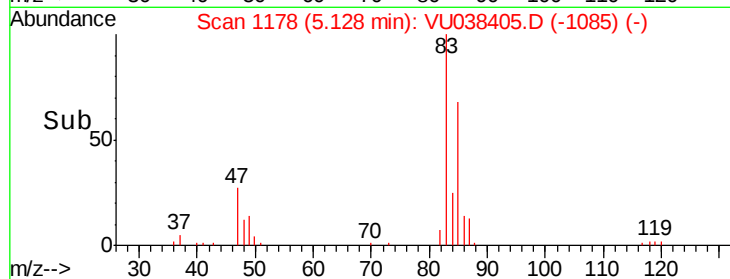
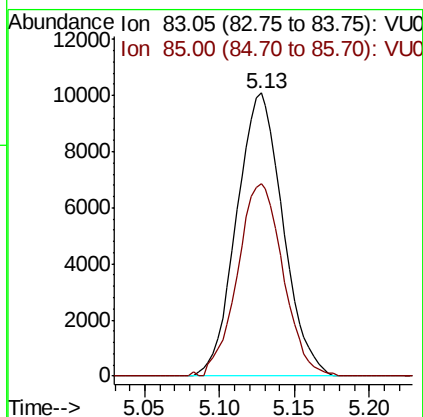
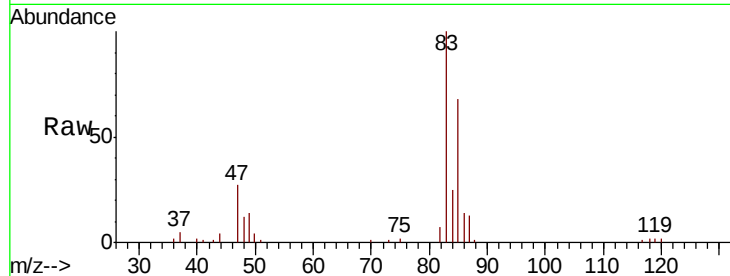




#25  
Chloroform  
Concen: 0.528 ug/L  
RT: 5.13 min Scan# 1178  
Delta R.T. -0.00 min  
Lab File: VU038405.D  
Acq: 30 May 2020 11:13

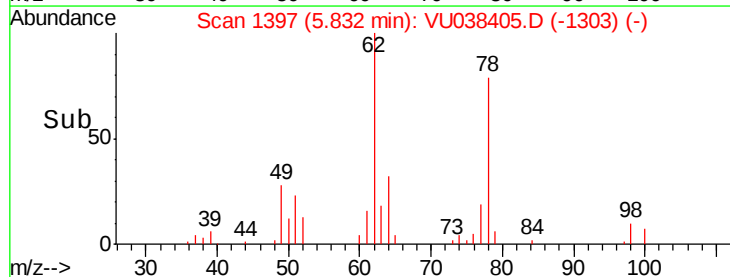
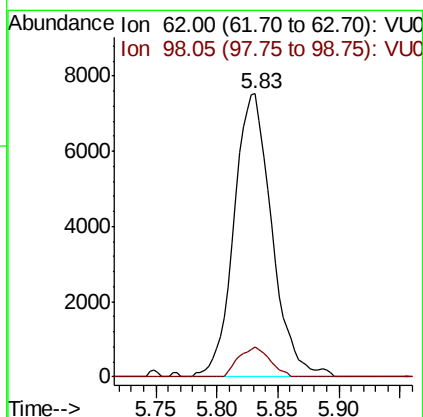
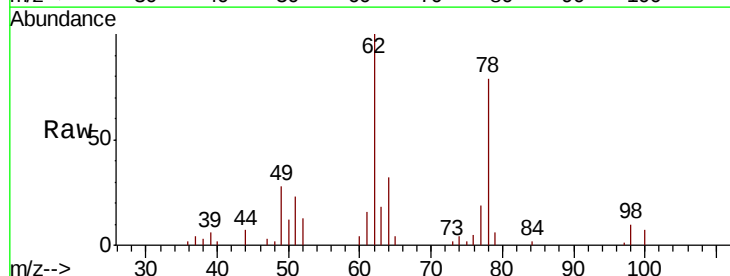
Instrument :  
MSVOA\_U  
ClientSampleId :

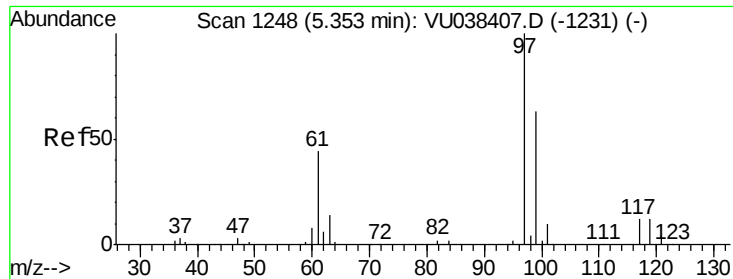
Tot Ion: 83 Resp: 21725  
Ion Ratio Lower Upper  
83 100  
85 68.0 44.9 83.5



#27  
1,2-Dichloroethane  
Concen: 0.558 ug/L  
RT: 5.83 min Scan# 1397  
Delta R.T. 0.00 min  
Lab File: VU038405.D  
Acq: 30 May 2020 11:13

Tgt Ion: 62 Resp: 16154  
Ion Ratio Lower Upper  
62 100  
98 10.4 7.4 11.2

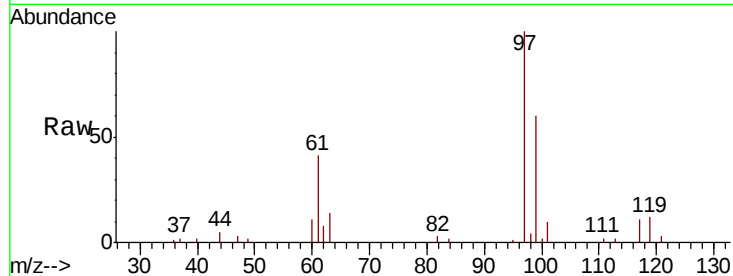




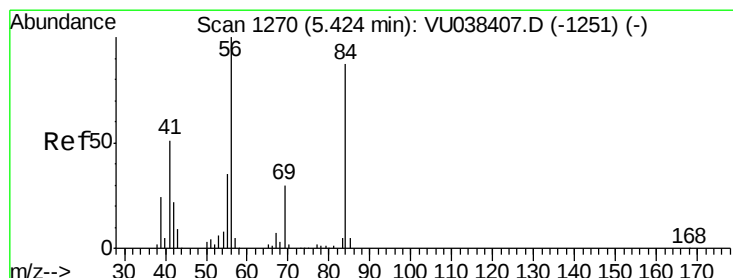
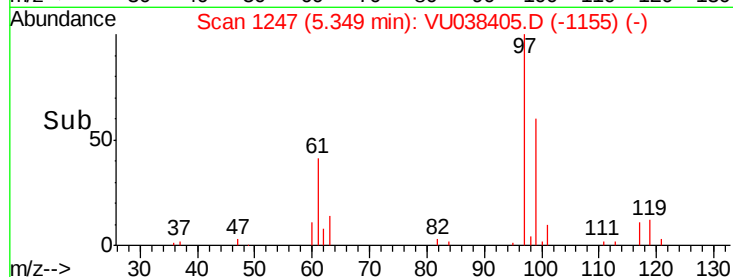
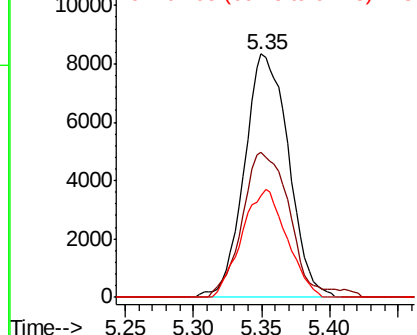
#29  
 1,1,1-Trichloroethane  
 Concen: 0.534 ug/L  
 RT: 5.35 min Scan# 1247  
 Delta R.T. -0.00 min  
 Lab File: VU038405.D  
 Acq: 30 May 2020 11:13

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Tot Ion: 97 Resp: 18734  
 Ion Ratio Lower Upper  
 97 100  
 99 64.7 52.2 78.2  
 61 45.1 35.4 53.2

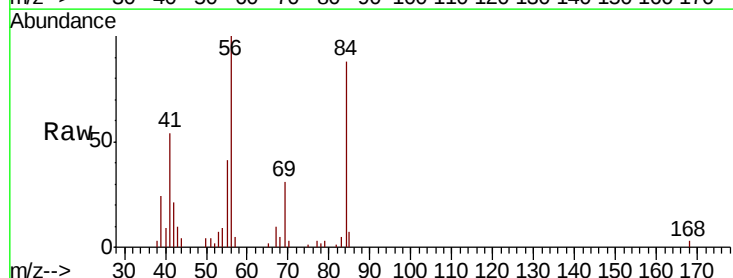


Abundance Ion 96.95 (96.65 to 97.65): VU0  
 Ion 99.05 (98.75 to 99.75): VU0  
 Ion 61.05 (60.75 to 61.75): VU0

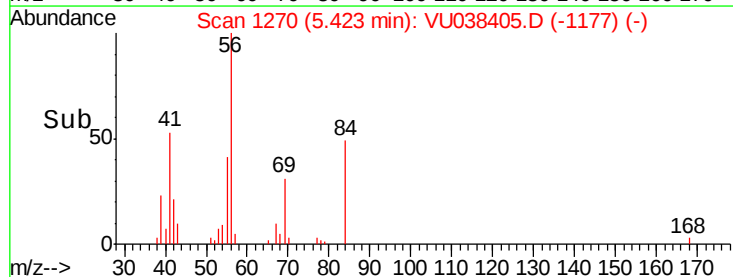
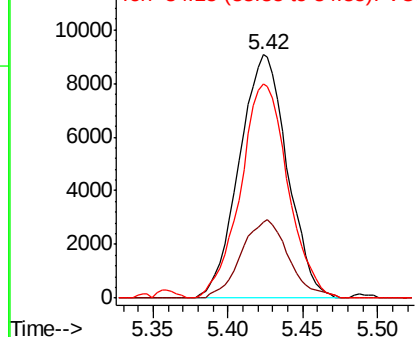


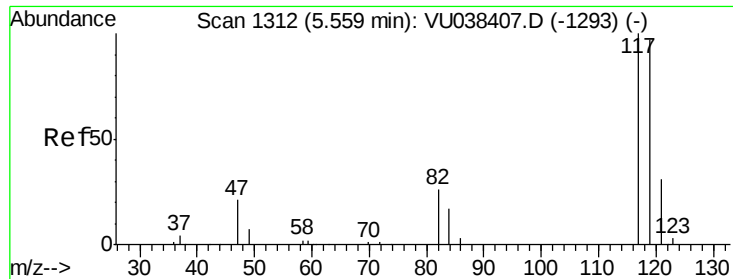
#30  
 Cyclohexane  
 Concen: 0.551 ug/L  
 RT: 5.42 min Scan# 1270  
 Delta R.T. -0.00 min  
 Lab File: VU038405.D  
 Acq: 30 May 2020 11:13

Tgt Ion: 56 Resp: 20268  
 Ion Ratio Lower Upper  
 56 100  
 69 31.6 24.2 36.4  
 84 86.7 70.8 106.2



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: 0.528 ug/L

RT: 5.56 min Scan# 1313

Delta R.T. 0.00 min

Lab File: VU038405.D

Acq: 30 May 2020 11:13

Instrument :

MSVOA\_U

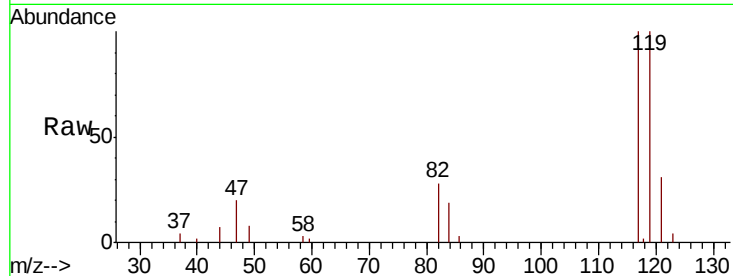
ClientSampleId :

Tot Ion:117 Resp: 15404

Ion Ratio Lower Upper

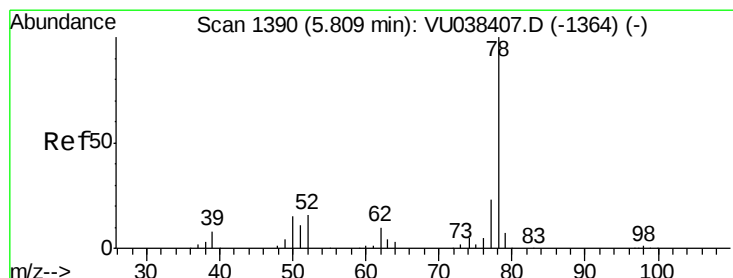
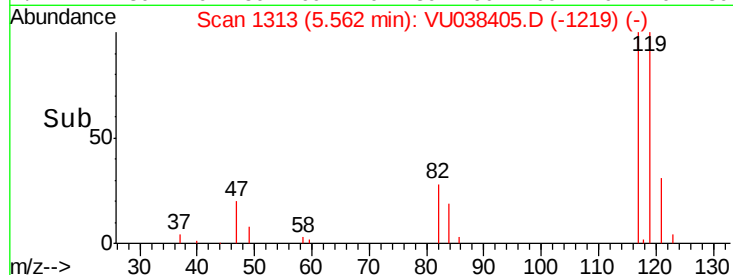
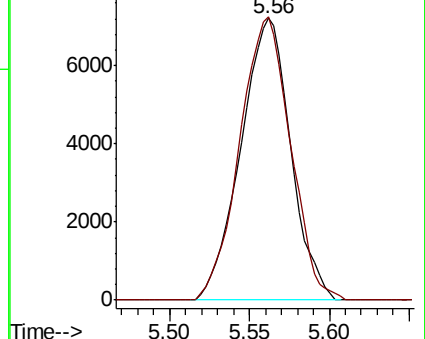
117 100

119 102.3 76.6 115.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 0.539 ug/L

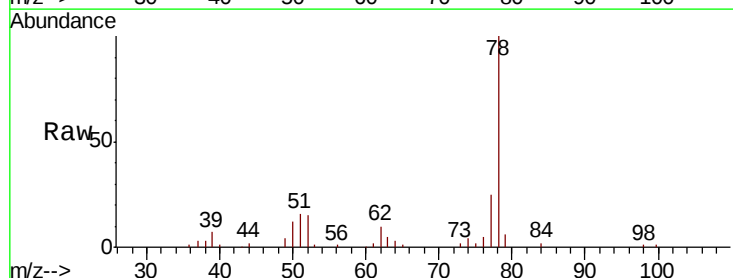
RT: 5.81 min Scan# 1390

Delta R.T. -0.00 min

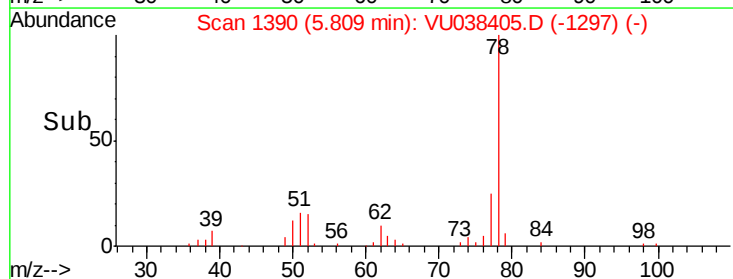
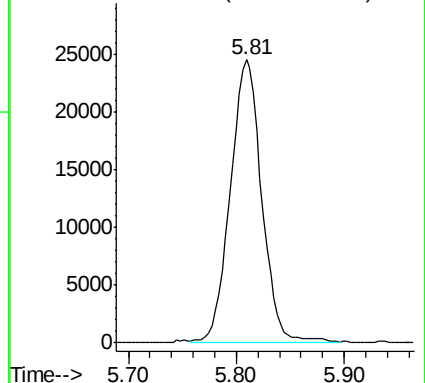
Lab File: VU038405.D

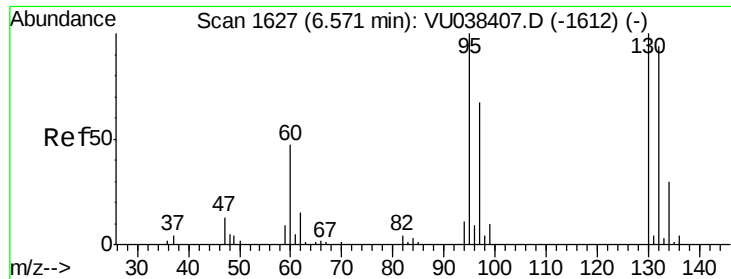
Acq: 30 May 2020 11:13

Tgt Ion: 78 Resp: 49836



Abundance Ion 78.10 (77.80 to 78.80): VU0

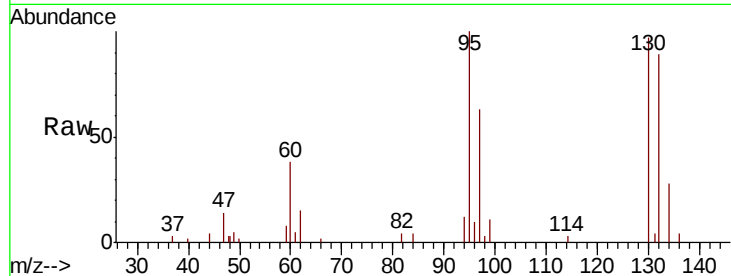




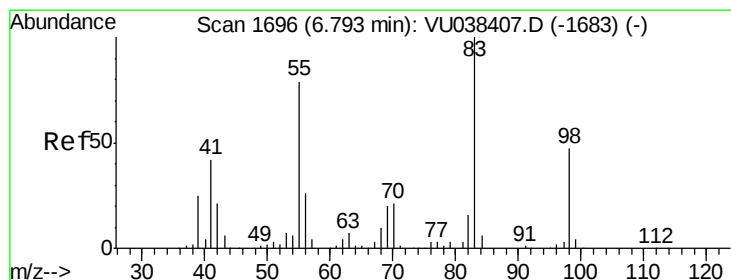
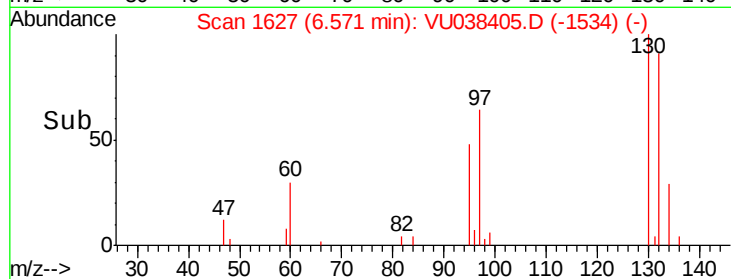
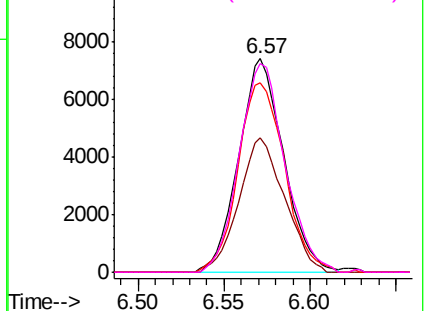
#34  
 Trichloroethene  
 Concen: 0.563 ug/L  
 RT: 6.57 min Scan# 1627  
 Delta R.T. -0.00 min  
 Lab File: VU038405.D  
 Acq: 30 May 2020 11:13

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Tot Ion: 95 Resp: 13502  
 Ion Ratio Lower Upper  
 95 100  
 97 62.7 46.8 87.0  
 132 88.9 66.1 122.7  
 130 97.5 70.0 130.0

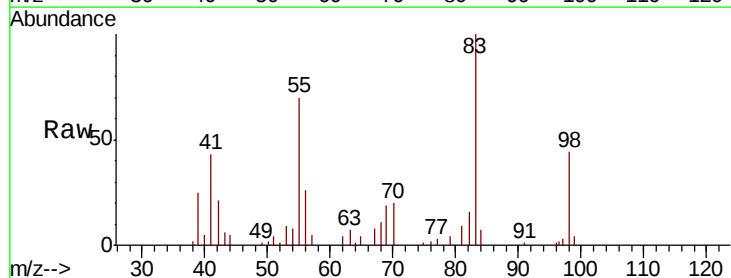


Abundance Ion 95.00 (94.70 to 95.70): VU0  
 Ion 96.95 (96.65 to 97.65): VU0  
 Ion 131.95 (131.65 to 132.65): V  
 Ion 129.95 (129.65 to 130.65): V

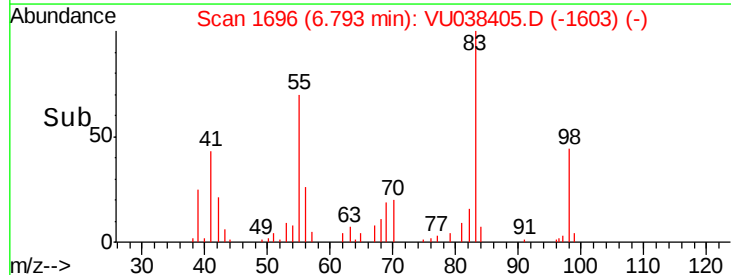
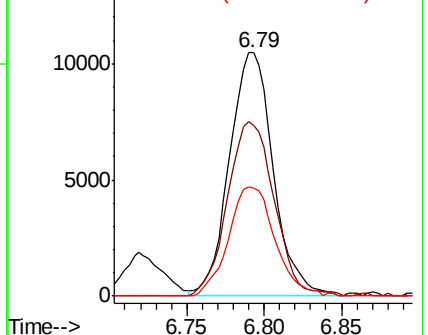


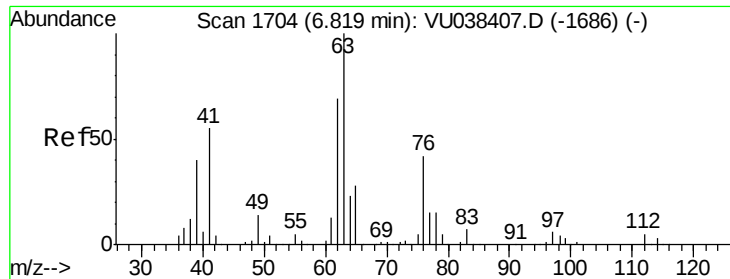
#35  
 Methylcyclohexane  
 Concen: 0.556 ug/L  
 RT: 6.79 min Scan# 1696  
 Delta R.T. -0.00 min  
 Lab File: VU038405.D  
 Acq: 30 May 2020 11:13

Tgt Ion: 83 Resp: 20634  
 Ion Ratio Lower Upper  
 83 100  
 55 76.4 63.4 95.2  
 98 47.4 39.0 58.4



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

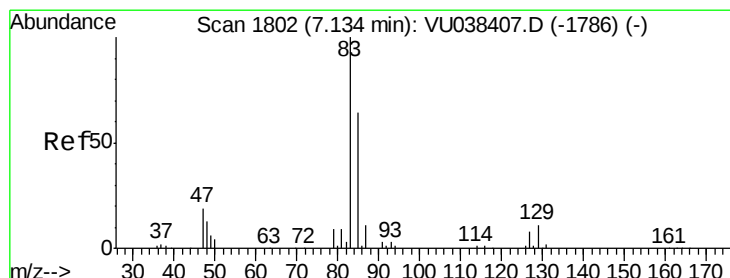
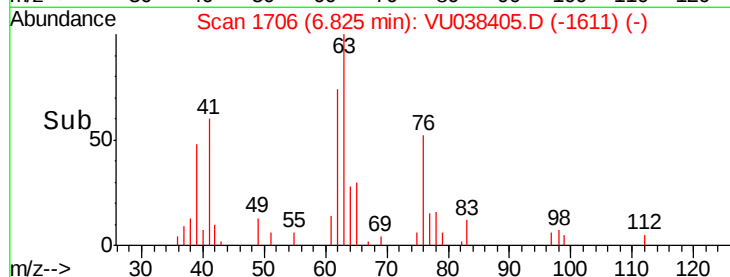
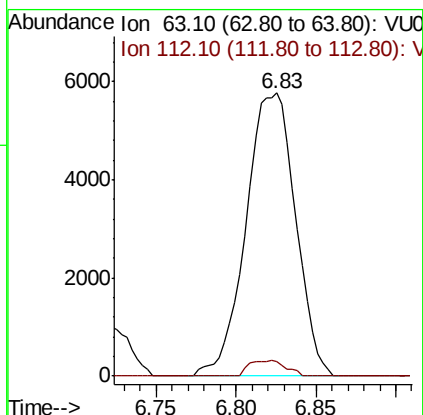
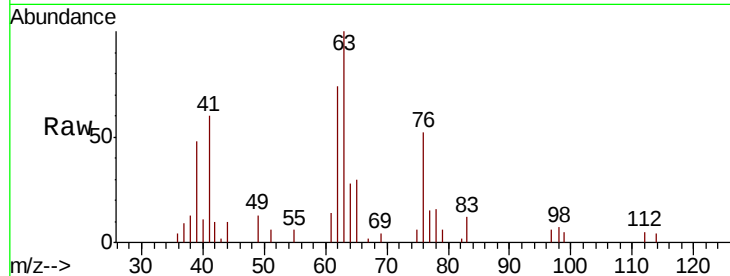




#37  
 1,2-Dichloropropane  
 Concen: 0.527 ug/L  
 RT: 6.83 min Scan# 1706  
 Delta R.T. 0.01 min  
 Lab File: VU038405.D  
 Acq: 30 May 2020 11:13

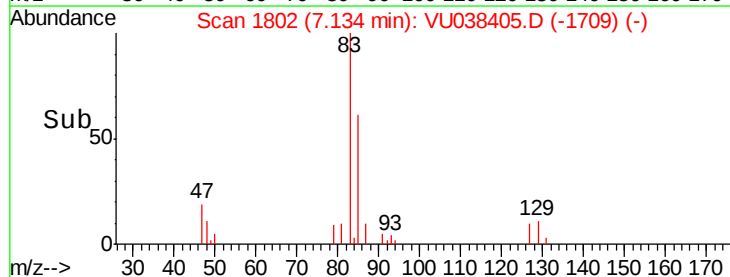
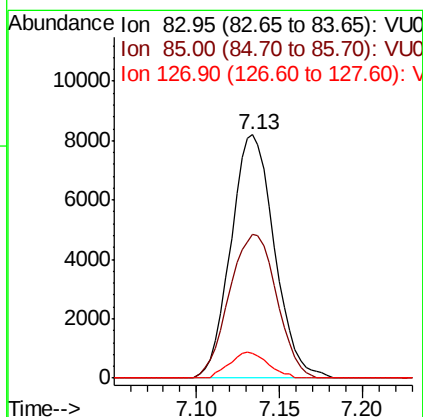
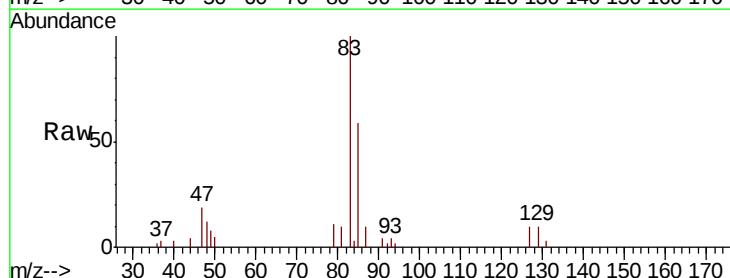
Instrument :  
 MSVOA\_U  
 ClientSampled :

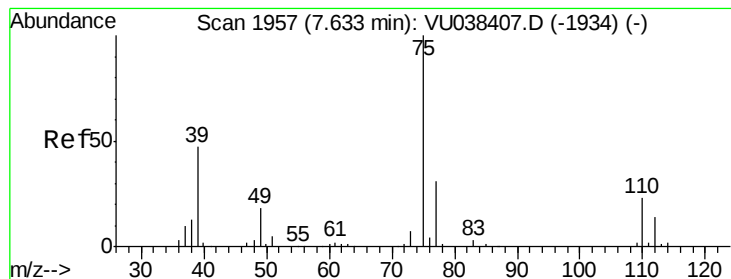
Tot Ion: 63 Resp: 12252  
 Ion Ratio Lower Upper  
 63 100  
 112 4.0 3.7 5.5



#38  
 Bromodichloromethane  
 Concen: 0.518 ug/L  
 RT: 7.13 min Scan# 1802  
 Delta R.T. -0.00 min  
 Lab File: VU038405.D  
 Acq: 30 May 2020 11:13

Tgt Ion: 83 Resp: 14966  
 Ion Ratio Lower Upper  
 83 100  
 85 59.0 44.7 83.1  
 127 9.9 6.8 10.2



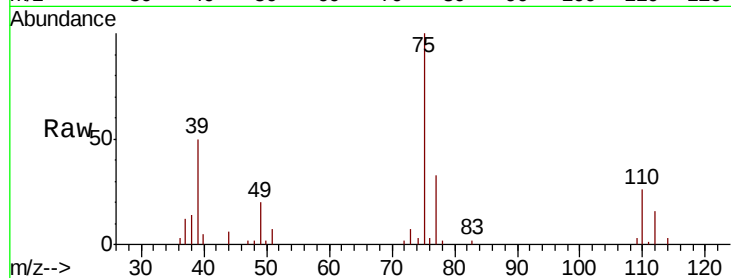


#39

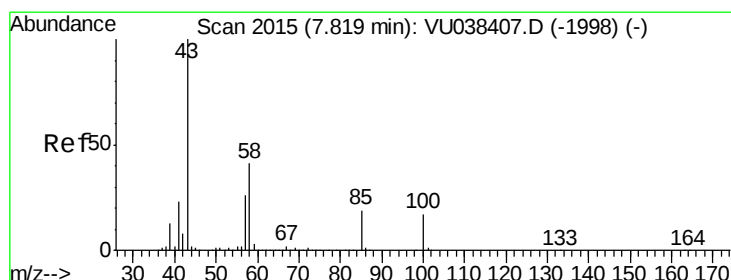
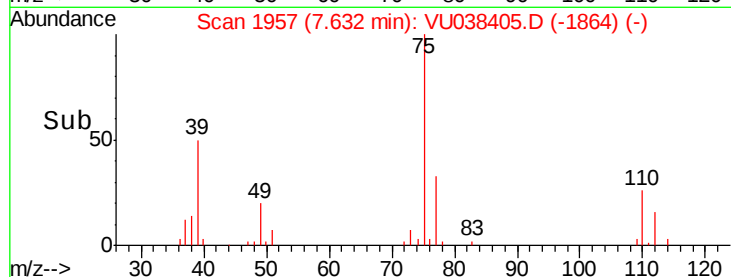
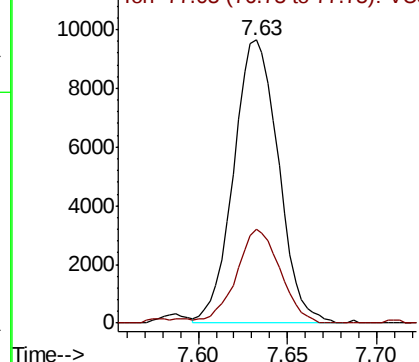
cis-1,3-Dichloropropene  
Concen: 0.491 ug/L  
RT: 7.63 min Scan# 1957  
Delta R.T. -0.00 min  
Lab File: VU038405.D  
Acq: 30 May 2020 11:13

Instrument :  
MSVOA\_U  
ClientSampled :

Tot Ion: 75 Resp: 16865  
Ion Ratio Lower Upper  
75 100  
77 33.1 21.9 40.7



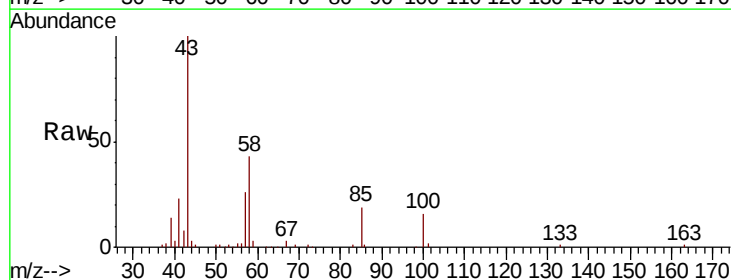
Abundance Ion 75.05 (74.75 to 75.75): VU0  
Ion 77.05 (76.75 to 77.75): VU0



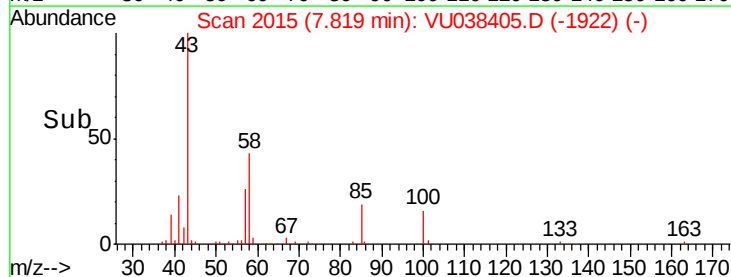
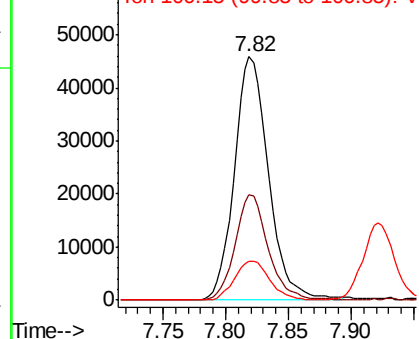
#40

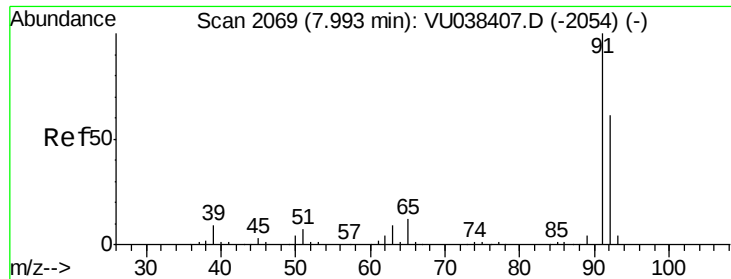
4-Methyl-2-pentanone  
Concen: 5.216 ug/L  
RT: 7.82 min Scan# 2015  
Delta R.T. -0.00 min  
Lab File: VU038405.D  
Acq: 30 May 2020 11:13

Tgt Ion: 43 Resp: 86733  
Ion Ratio Lower Upper  
43 100  
58 41.7 32.4 48.6  
100 16.5 13.3 19.9



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: 0.518 ug/L

RT: 7.99 min Scan# 2069

Delta R.T. -0.00 min

Lab File: VU038405.D

Acq: 30 May 2020 11:13

Instrument :

MSVOA\_U

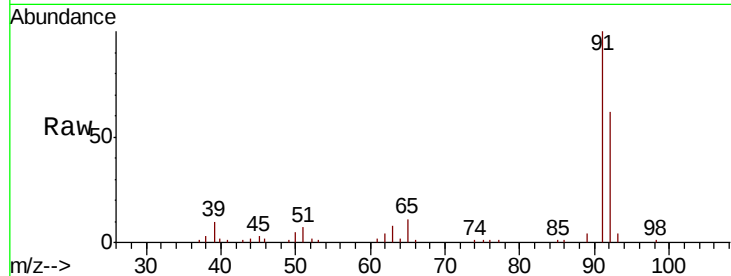
ClientSampleId :

Tot Ion: 91 Resp: 50232

Ion Ratio Lower Upper

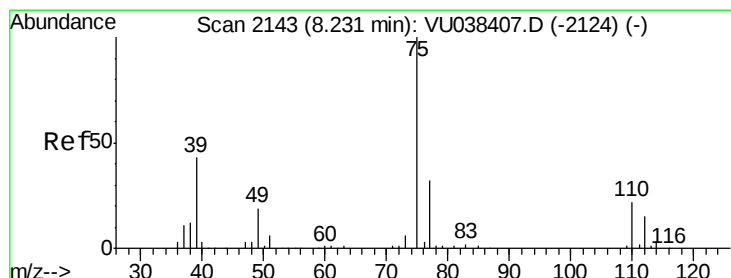
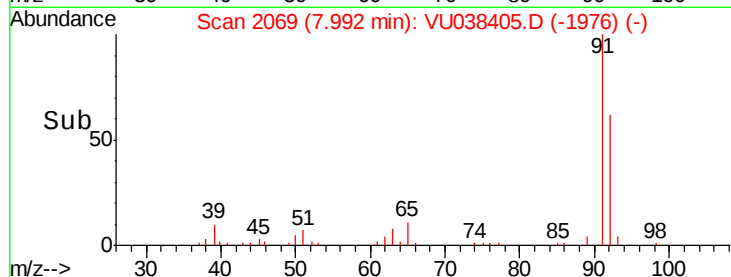
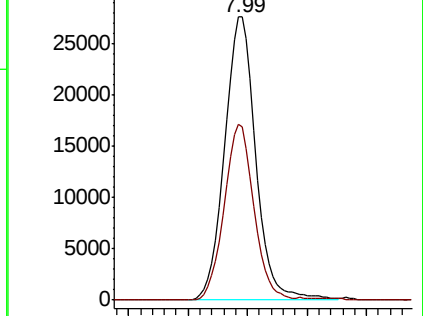
91 100

92 62.3 43.0 79.8



Abundance Ion 91.15 (90.85 to 91.85): VU038407.D (-2054) (-)

Ion 92.15 (91.85 to 92.85): VU038407.D (-2054) (-)



#44

trans-1,3-Dichloropropene

Concen: 0.488 ug/L

RT: 8.23 min Scan# 2144

Delta R.T. 0.00 min

Lab File: VU038405.D

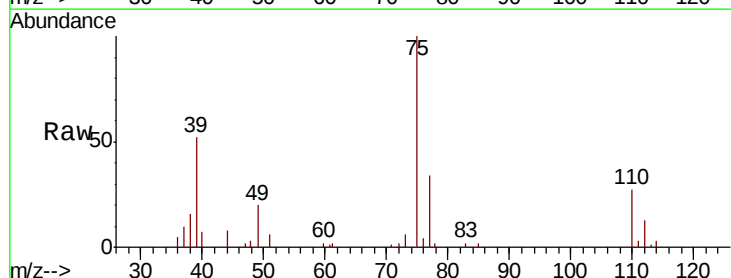
Acq: 30 May 2020 11:13

Tgt Ion: 75 Resp: 14825

Ion Ratio Lower Upper

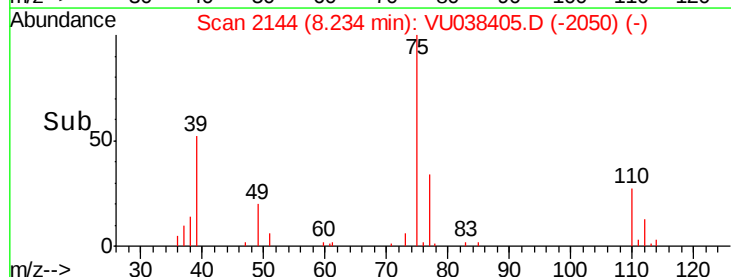
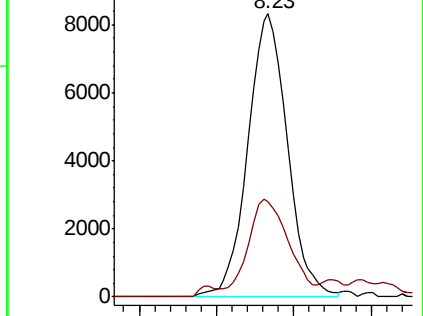
75 100

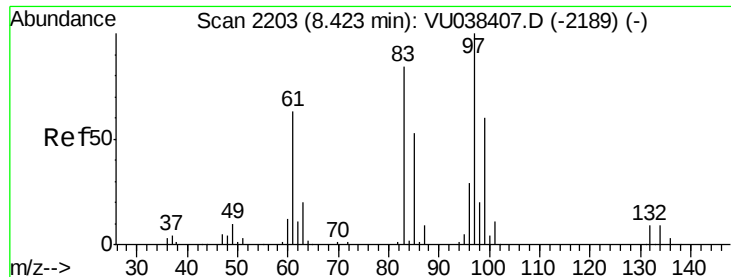
77 33.6 22.1 41.1



Abundance Ion 75.05 (74.75 to 75.75): VU038407.D (-2124) (-)

Ion 77.05 (76.75 to 77.75): VU038407.D (-2124) (-)

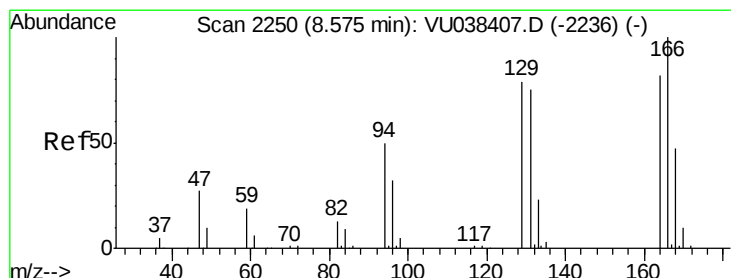
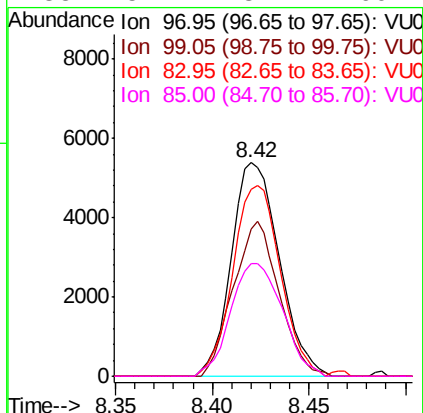
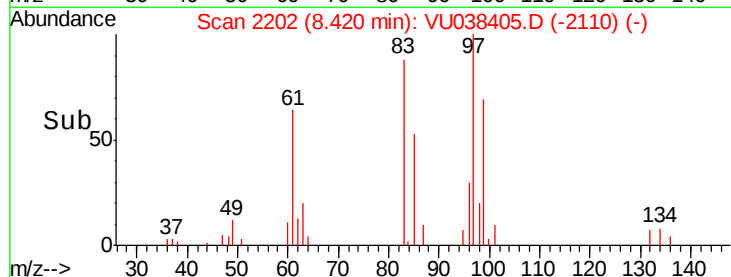
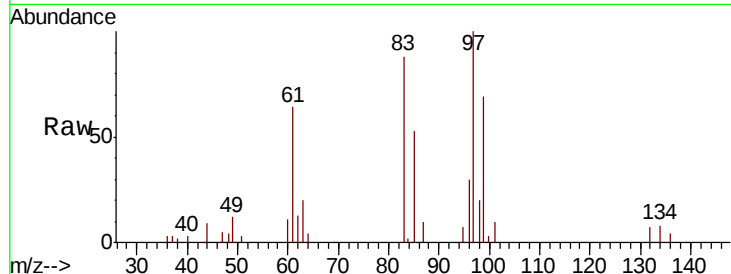




#45  
 1,1,2-Trichloroethane  
 Concen: 0.530 ug/L  
 RT: 8.42 min Scan# 2202  
 Delta R.T. -0.00 min  
 Lab File: VU038405.D  
 Acq: 30 May 2020 11:13

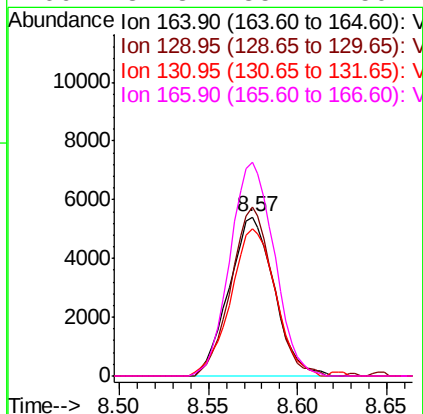
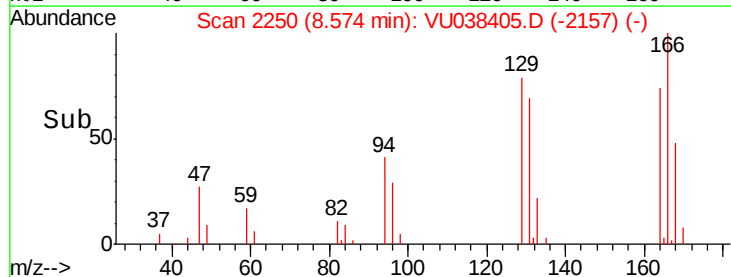
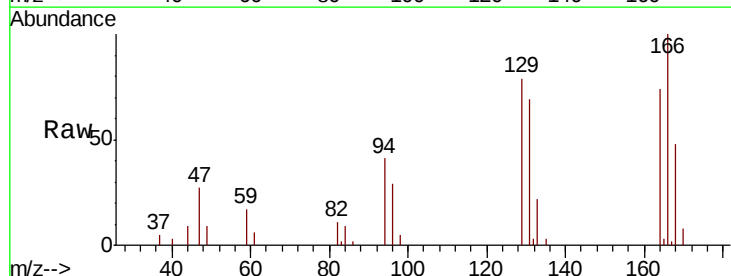
Instrument :  
 MSVOA\_U  
 ClientSampleId :

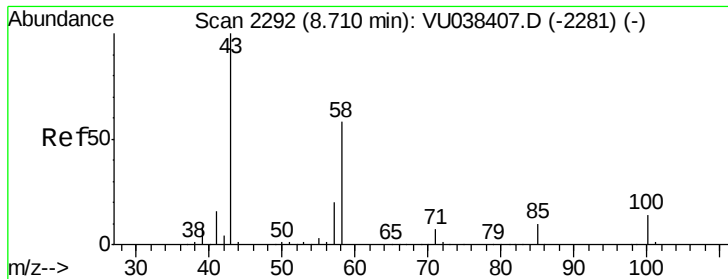
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 97    | Resp: | 9294  |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 68.8  | 42.1  | 78.1  |
| 83       | 87.6  | 58.8  | 109.2 |
| 85       | 52.7  | 37.4  | 69.4  |



#47  
 Tetrachloroethene  
 Concen: 0.546 ug/L  
 RT: 8.57 min Scan# 2250  
 Delta R.T. -0.00 min  
 Lab File: VU038405.D  
 Acq: 30 May 2020 11:13

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 9515  |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 106.5 | 67.4  | 125.2 |
| 131      | 92.4  | 64.1  | 119.1 |
| 166      | 134.3 | 85.7  | 159.1 |

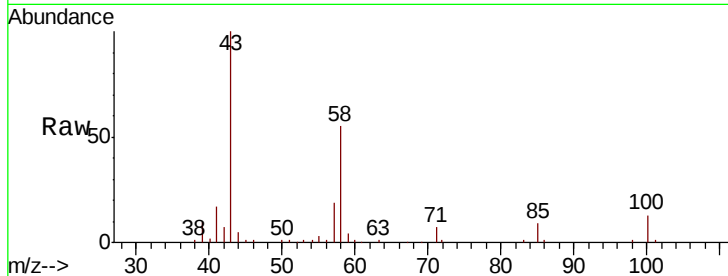




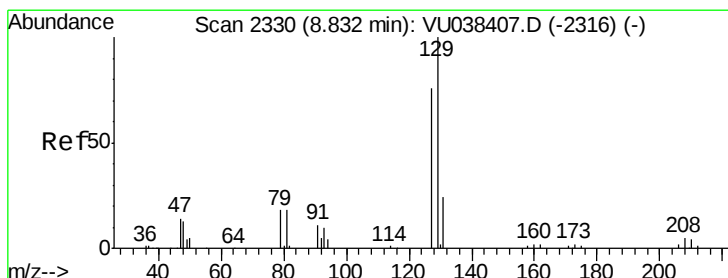
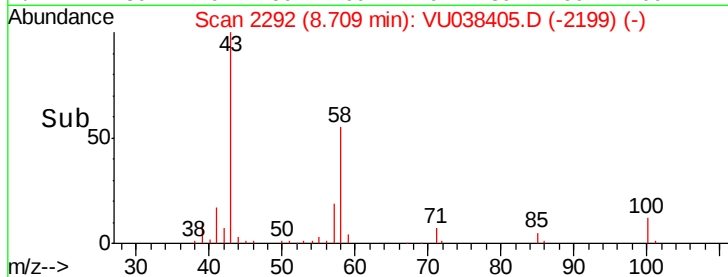
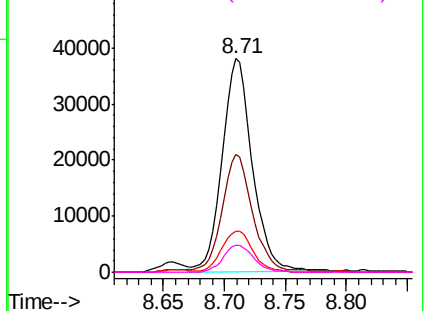
#48  
2-Hexanone  
Concen: 5.225 ug/L  
RT: 8.71 min Scan# 2292  
Delta R.T. -0.00 min  
Lab File: VU038405.D  
Acq: 30 May 2020 11:13

Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 43 Resp: 65801  
Ion Ratio Lower Upper  
43 100  
58 56.8 45.4 68.0  
57 20.4 15.9 23.9  
100 12.9 10.5 15.7

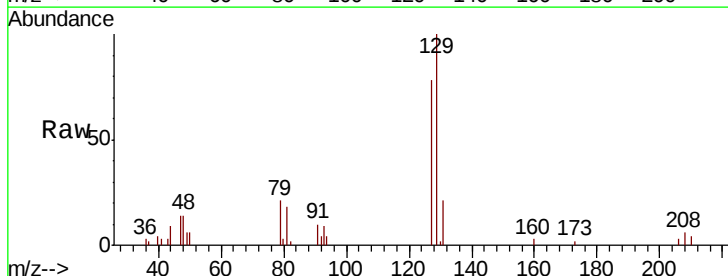


Abundance Ion 43.05 (42.75 to 43.75): VU038405.D (-2199) (-)  
Ion 58.05 (57.75 to 58.75): VU038405.D (-2199) (-)  
Ion 57.20 (56.90 to 57.90): VU038405.D (-2199) (-)  
Ion 100.15 (99.85 to 100.85): VU038405.D (-2199) (-)

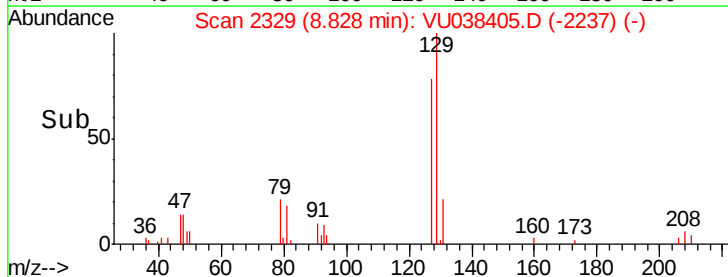
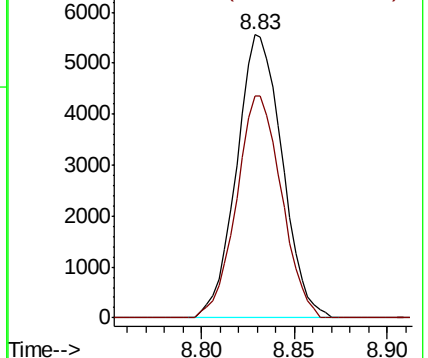


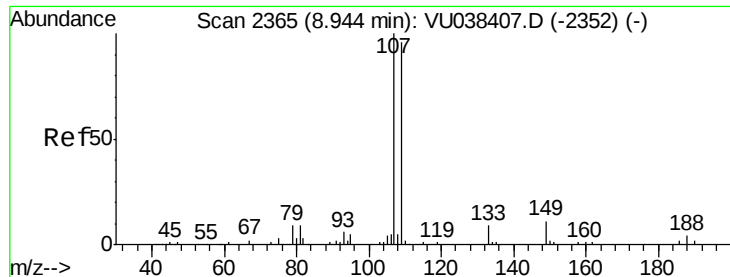
#49  
Dibromochloromethane  
Concen: 0.502 ug/L  
RT: 8.83 min Scan# 2329  
Delta R.T. -0.00 min  
Lab File: VU038405.D  
Acq: 30 May 2020 11:13

Tgt Ion: 129 Resp: 9505  
Ion Ratio Lower Upper  
129 100  
127 78.3 53.3 99.1



Abundance Ion 128.95 (128.65 to 129.65): VU038405.D (-2237) (-)  
Ion 126.90 (126.60 to 127.60): VU038405.D (-2237) (-)

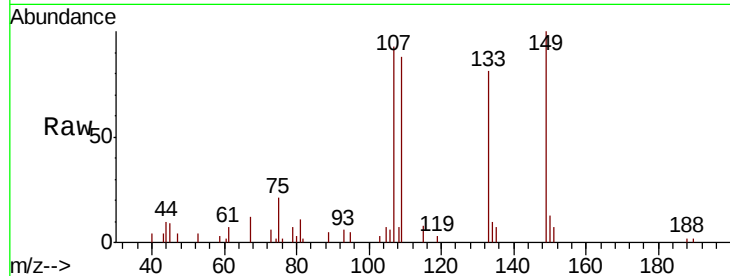




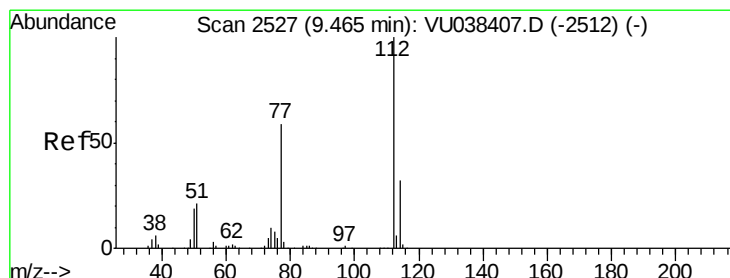
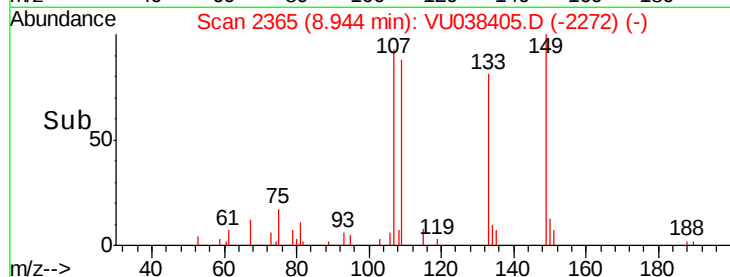
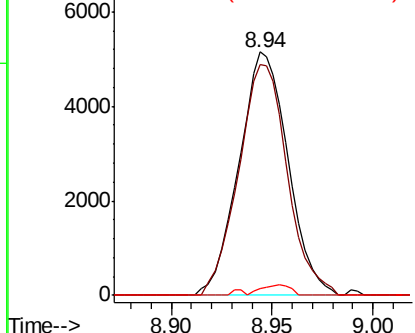
#50  
 1,2-Dibromoethane  
 Concen: 0.522 ug/L  
 RT: 8.94 min Scan# 2365  
 Delta R.T. -0.00 min  
 Lab File: VU038405.D  
 Acq: 30 May 2020 11:13

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Tot Ion:107 Resp: 8763  
 Ion Ratio Lower Upper  
 107 100  
 109 95.0 67.0 124.4  
 188 2.6 3.0 4.4#

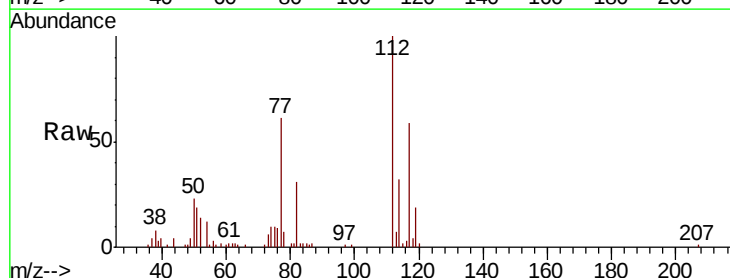


Abundance Ion 106.95 (106.65 to 107.65): V  
 Ion 109.00 (108.70 to 109.70): V  
 Ion 187.90 (187.60 to 188.60): V

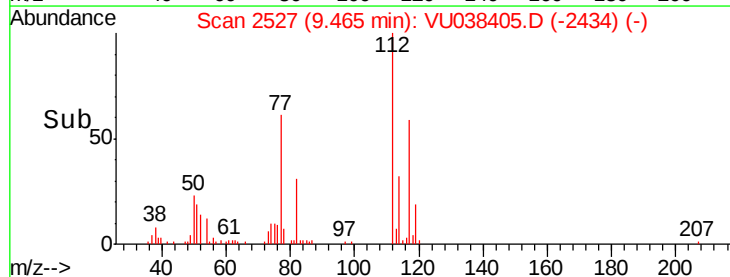
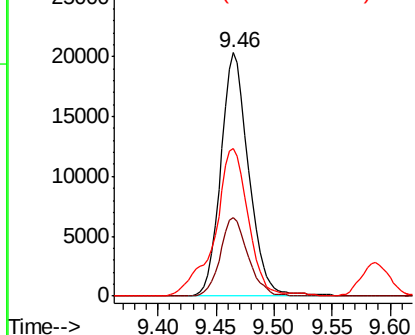


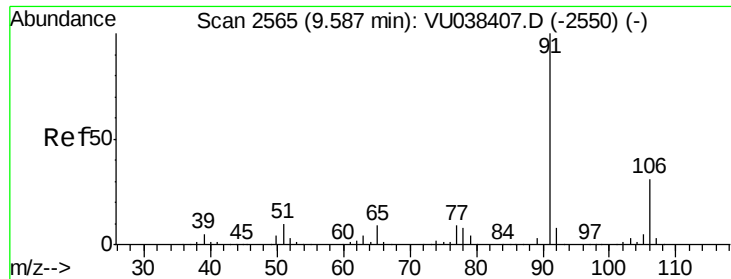
#51  
 Chlorobenzene  
 Concen: 0.542 ug/L  
 RT: 9.46 min Scan# 2527  
 Delta R.T. -0.00 min  
 Lab File: VU038405.D  
 Acq: 30 May 2020 11:13

Tgt Ion:112 Resp: 33883  
 Ion Ratio Lower Upper  
 112 100  
 114 32.4 22.4 41.6  
 77 60.8 47.1 70.7



Abundance Ion 112.10 (111.80 to 112.80): V  
 Ion 114.05 (113.75 to 114.75): V  
 Ion 77.10 (76.80 to 77.80): VU





#52

Ethylbenzene

Concen: 0.525 ug/L

RT: 9.59 min Scan# 2565

Delta R.T. -0.00 min

Lab File: VU038405.D

Acq: 30 May 2020 11:13

Instrument :

MSVOA\_U

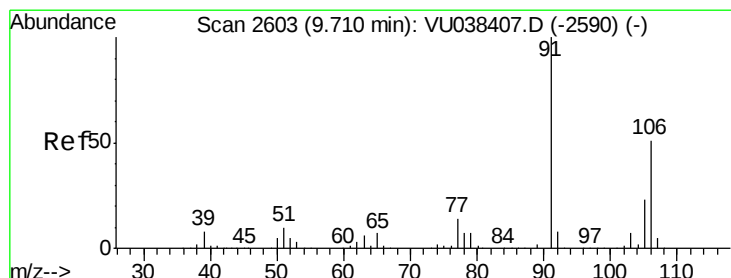
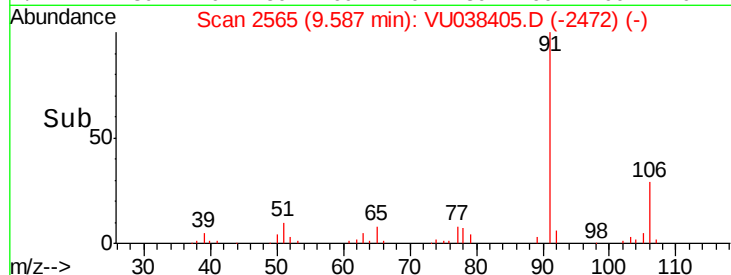
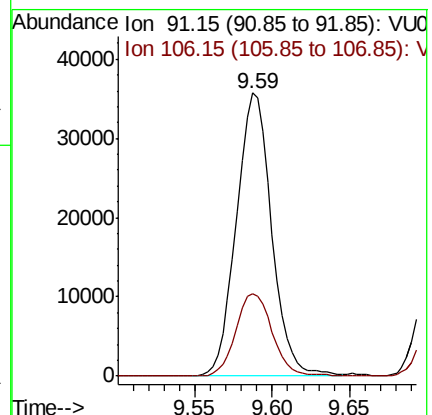
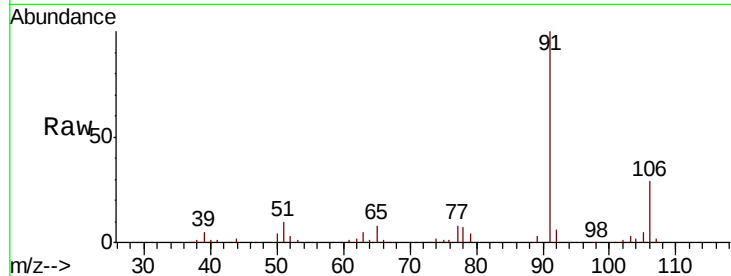
ClientSampleId :

Tot Ion: 91 Resp: 56566

Ion Ratio Lower Upper

91 100

106 29.3 21.7 40.3



#53

m,p-Xylene

Concen: 0.512 ug/L

RT: 9.71 min Scan# 2603

Delta R.T. -0.00 min

Lab File: VU038405.D

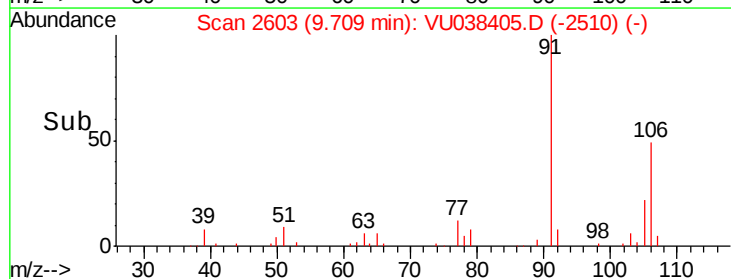
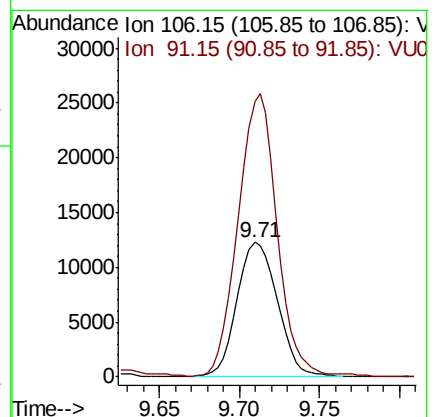
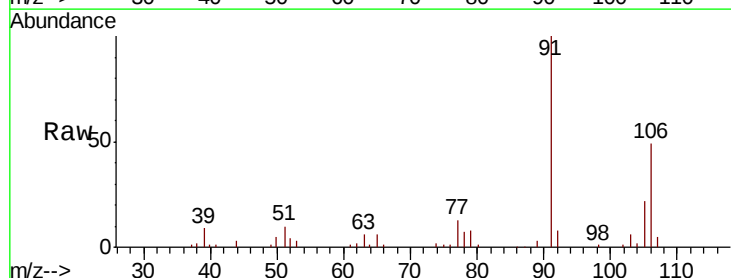
Acq: 30 May 2020 11:13

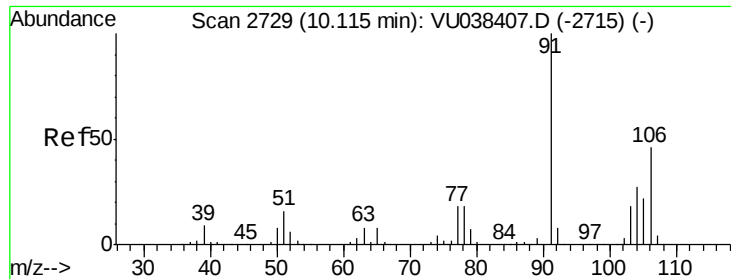
Tgt Ion: 106 Resp: 21251

Ion Ratio Lower Upper

106 100

91 204.7 138.1 256.5

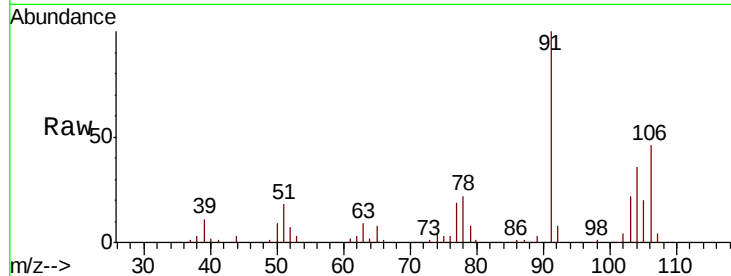




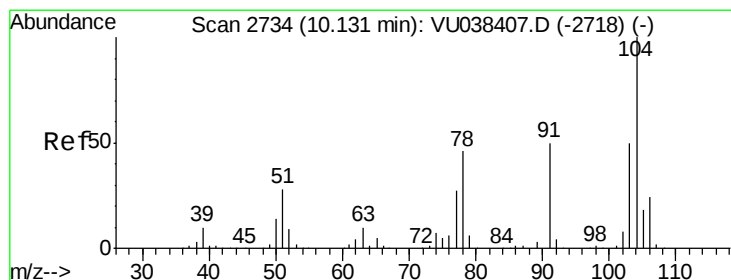
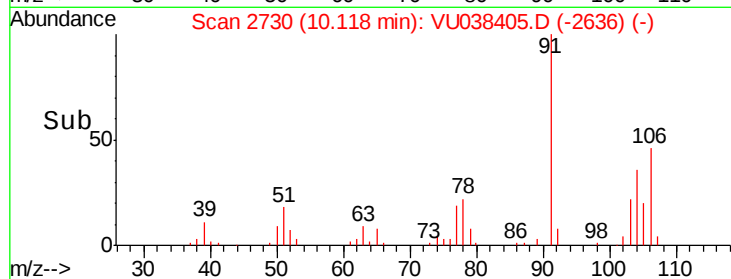
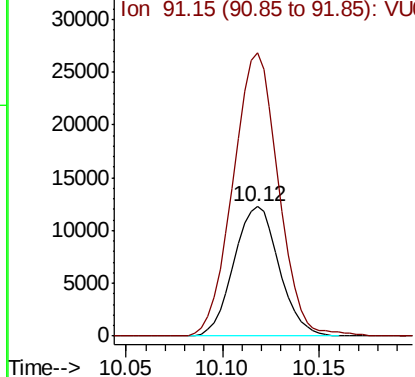
#54  
o-Xylene  
Concen: 0.500 ug/L  
RT: 10.12 min Scan# 2730  
Delta R.T. 0.00 min  
Lab File: VU038405.D  
Acq: 30 May 2020 11:13

Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion:106 Resp: 19893  
Ion Ratio Lower Upper  
106 100  
91 219.1 150.6 279.8

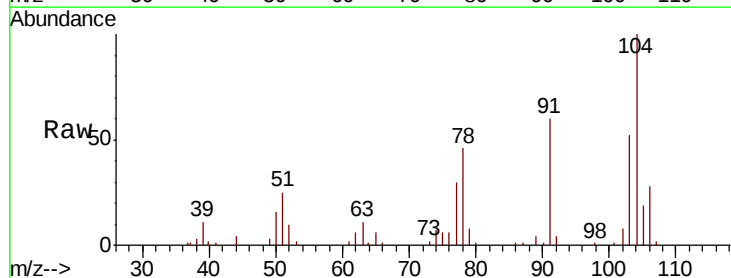


Abundance Ion 106.15 (105.85 to 106.85): V  
Ion 91.15 (90.85 to 91.85): VU0

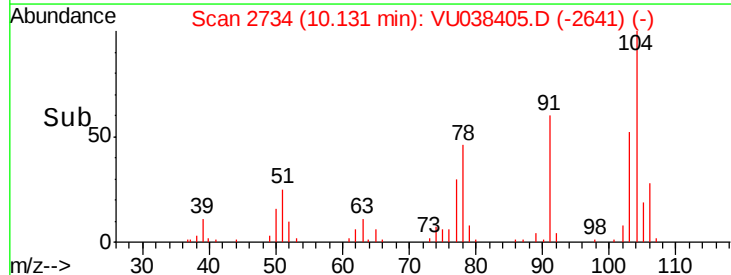
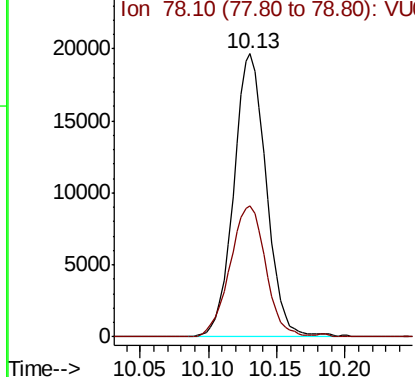


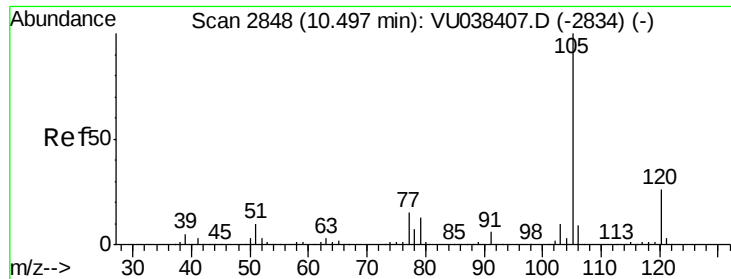
#55  
Styrene  
Concen: 0.482 ug/L  
RT: 10.13 min Scan# 2734  
Delta R.T. -0.00 min  
Lab File: VU038405.D  
Acq: 30 May 2020 11:13

Tgt Ion:104 Resp: 32584  
Ion Ratio Lower Upper  
104 100  
78 46.2 31.9 59.3



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





#56

Isopropylbenzene

Concen: 0.507 ug/L

RT: 10.50 min Scan# 2849

Delta R.T. 0.00 min

Lab File: VU038405.D

Acq: 30 May 2020 11:13

Instrument :

MSVOA\_U

ClientSampleId :

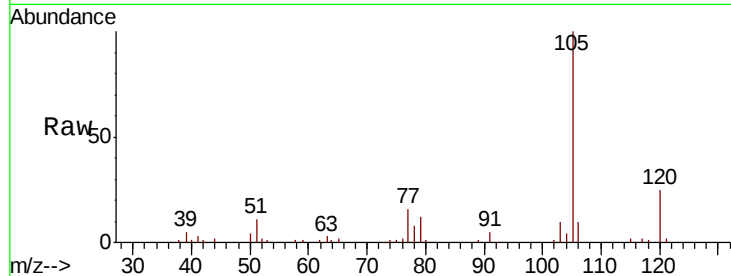
Tot Ion:105 Resp: 53073

Ion Ratio Lower Upper

105 100

120 26.3 20.7 31.1

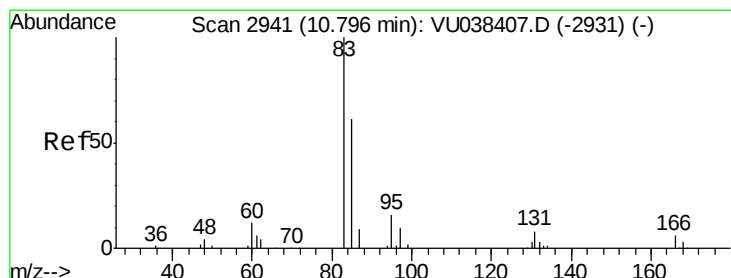
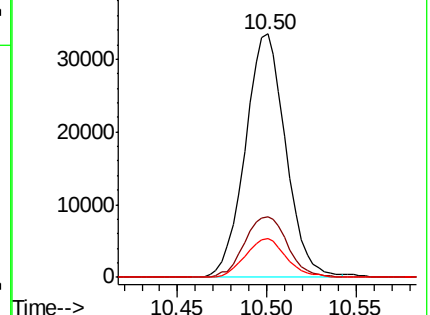
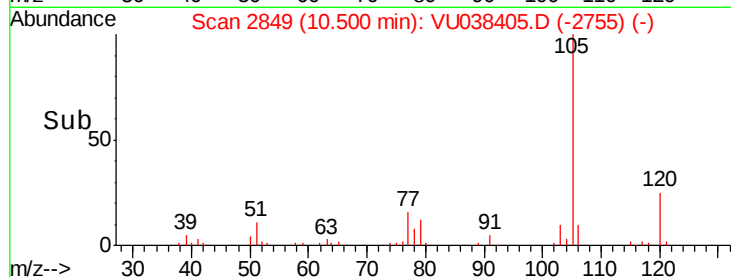
77 16.3 12.5 18.7



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: 0.536 ug/L

RT: 10.80 min Scan# 2942

Delta R.T. 0.00 min

Lab File: VU038405.D

Acq: 30 May 2020 11:13

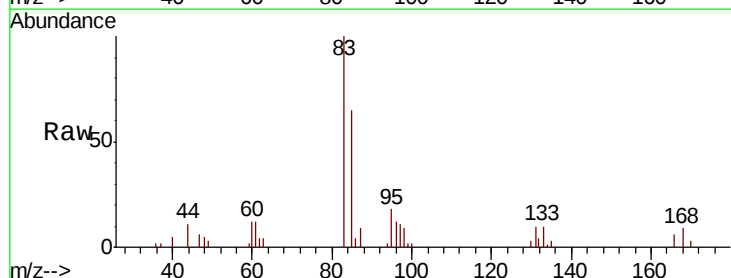
Tgt Ion: 83 Resp: 11948

Ion Ratio Lower Upper

83 100

85 65.3 44.2 82.0

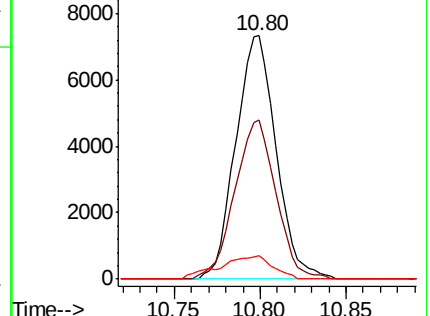
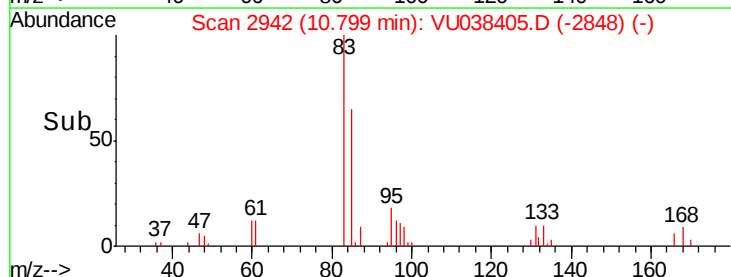
131 9.7 8.1 12.1

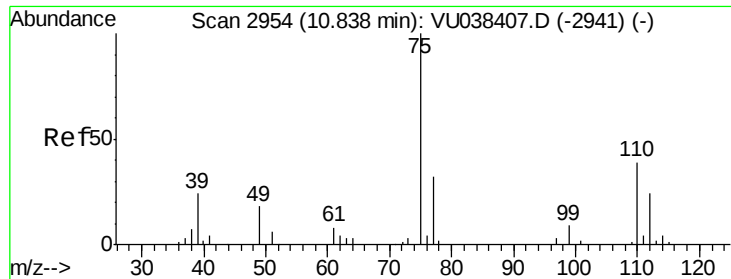


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V

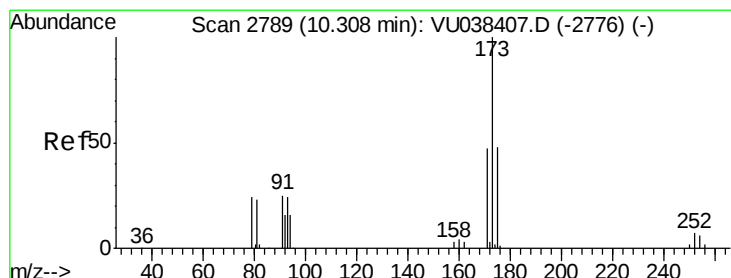
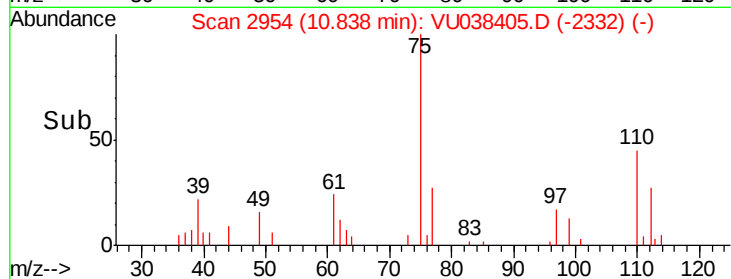
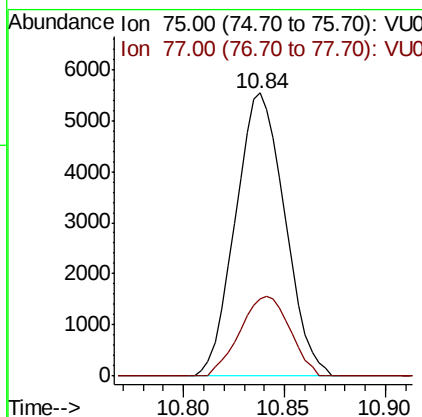
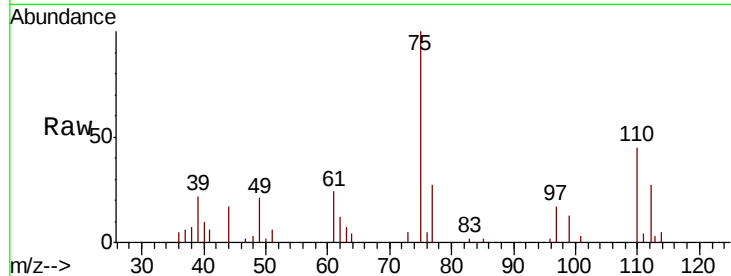




#59  
 1,2,3-Trichloropropane  
 Concen: 0.547 ug/L  
 RT: 10.84 min Scan# 2954  
 Delta R.T. -0.00 min  
 Lab File: VU038405.D  
 Acq: 30 May 2020 11:13

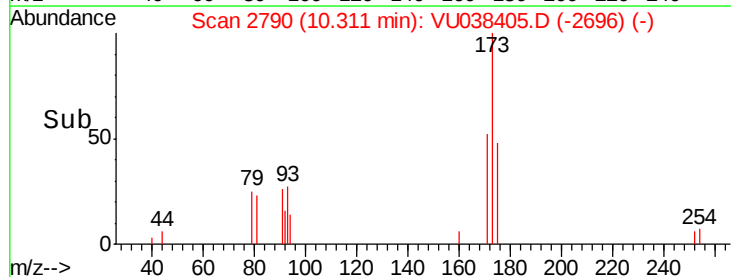
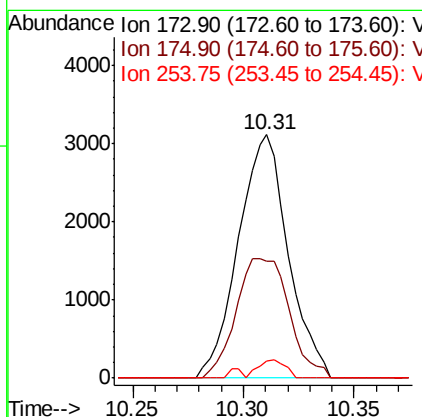
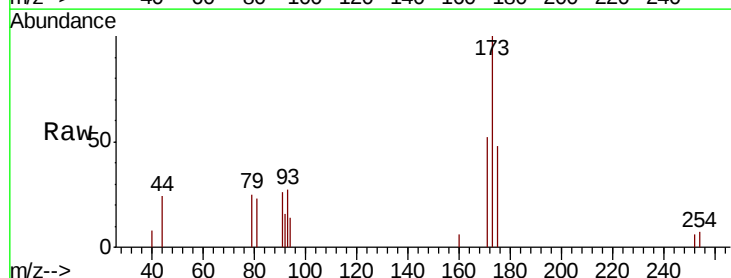
Instrument :  
 MSVOA\_U  
 ClientSampleId :

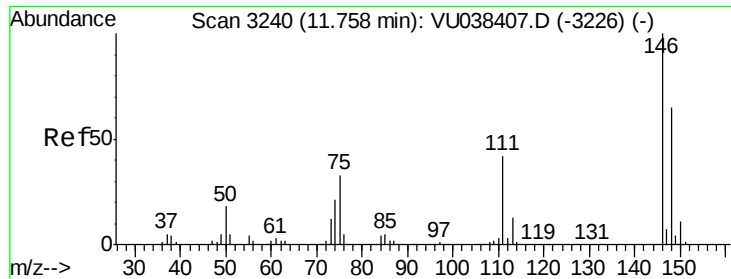
Tot Ion: 75 Resp: 9486  
 Ion Ratio Lower Upper  
 75 100  
 77 28.5 25.4 38.2



#61  
 Bromoform  
 Concen: 0.472 ug/L  
 RT: 10.31 min Scan# 2790  
 Delta R.T. 0.00 min  
 Lab File: VU038405.D  
 Acq: 30 May 2020 11:13

Tgt Ion:173 Resp: 4876  
 Ion Ratio Lower Upper  
 173 100  
 175 52.4 38.7 58.1  
 254 4.1 5.4 8.2#





#62

1,3-Dichlorobenzene

Concen: 0.549 ug/L

RT: 11.76 min Scan# 3240

Delta R.T. -0.00 min

Lab File: VU038405.D

Acq: 30 May 2020 11:13

Instrument :

MSVOA\_U

ClientSampled :

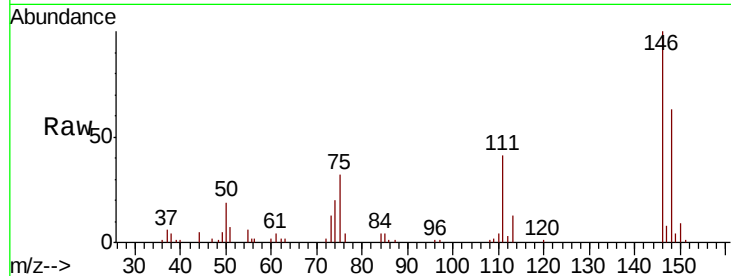
Tot Ion:146 Resp: 26764

Ion Ratio Lower Upper

146 100

111 40.6 29.5 54.9

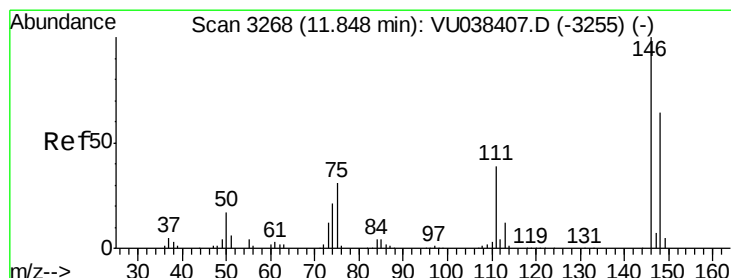
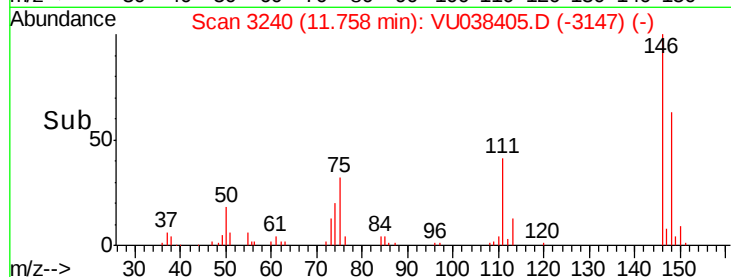
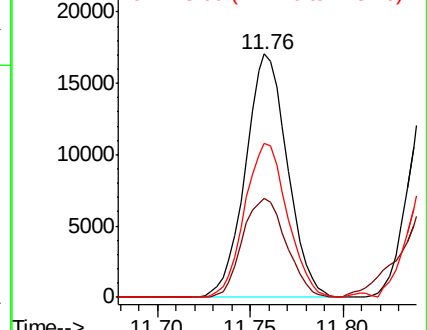
148 63.3 45.6 84.6



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: 0.560 ug/L

RT: 11.85 min Scan# 3268

Delta R.T. -0.00 min

Lab File: VU038405.D

Acq: 30 May 2020 11:13

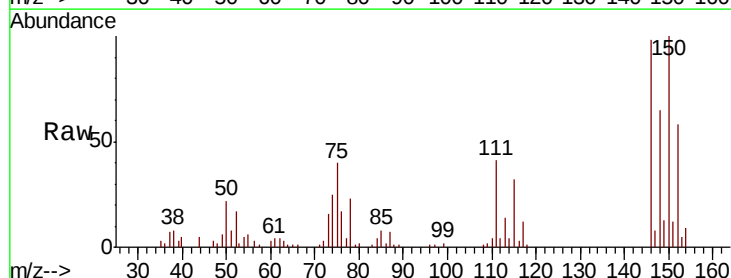
Tgt Ion:146 Resp: 27659

Ion Ratio Lower Upper

146 100

111 42.2 27.6 51.2

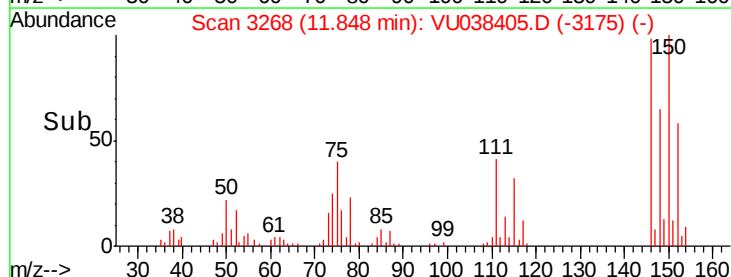
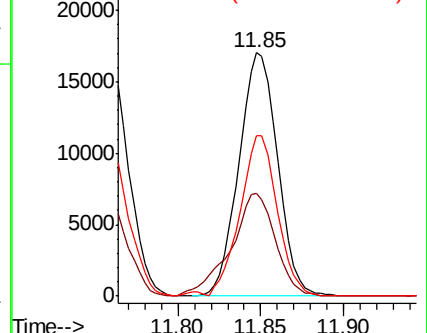
148 65.9 44.8 83.2

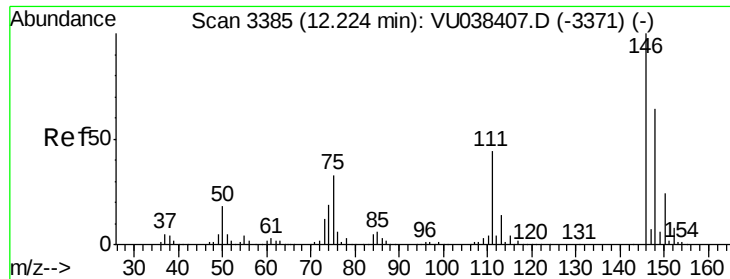


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 0.541 ug/L

RT: 12.22 min Scan# 3385

Delta R.T. -0.00 min

Lab File: VU038405.D

Acq: 30 May 2020 11:13

Instrument :

MSVOA\_U

ClientSampleId :

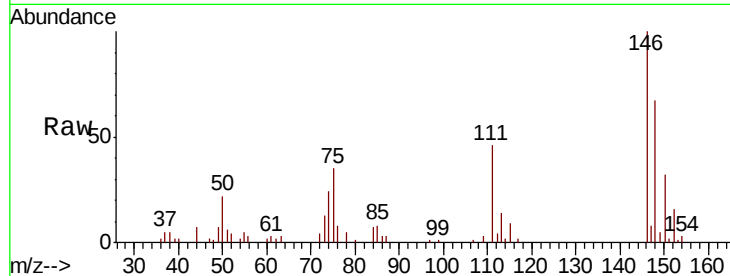
Tot Ion:146 Resp: 25025

Ion Ratio Lower Upper

146 100

111 45.9 35.1 52.7

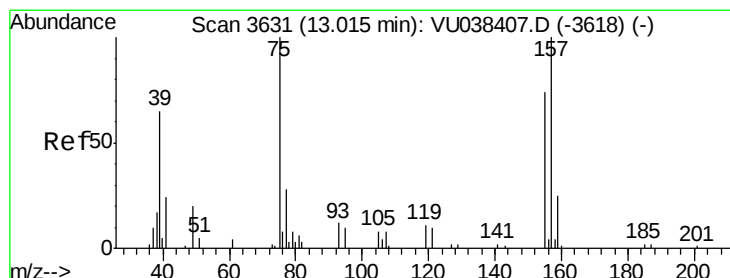
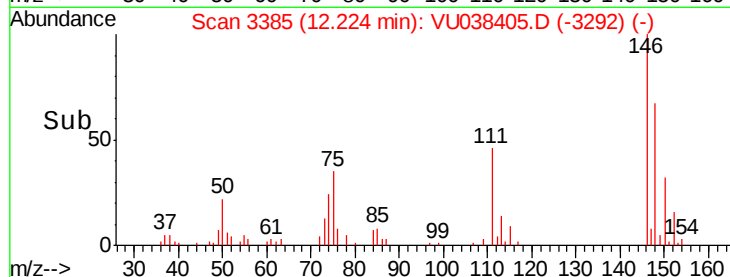
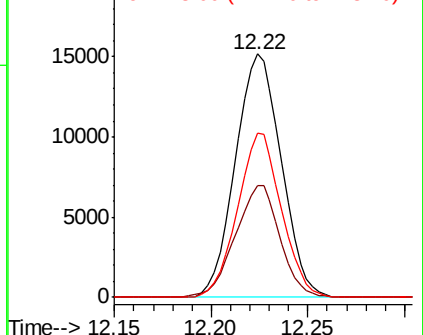
148 67.4 50.9 76.3



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



#66

1,2-Dibromo-3-chloropropane

Concen: 0.571 ug/L

RT: 13.02 min Scan# 3633

Delta R.T. 0.01 min

Lab File: VU038405.D

Acq: 30 May 2020 11:13

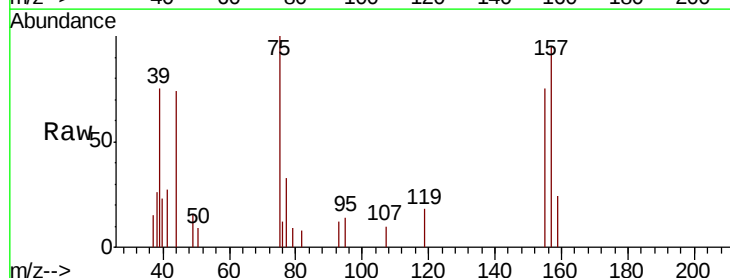
Tgt Ion: 75 Resp: 2141

Ion Ratio Lower Upper

75 100

155 75.1 59.6 89.4

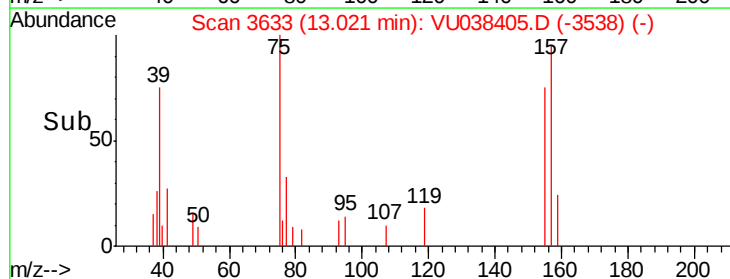
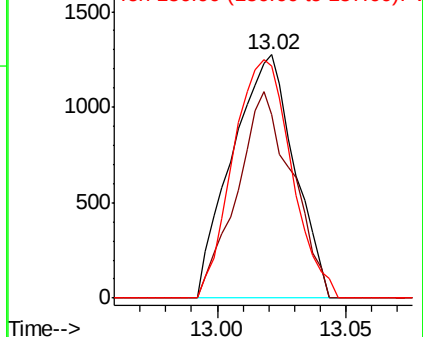
157 95.3 79.8 119.6

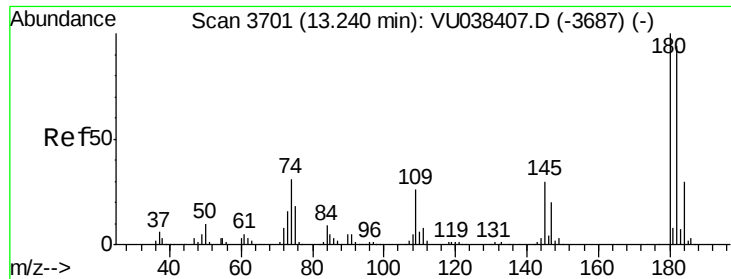


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

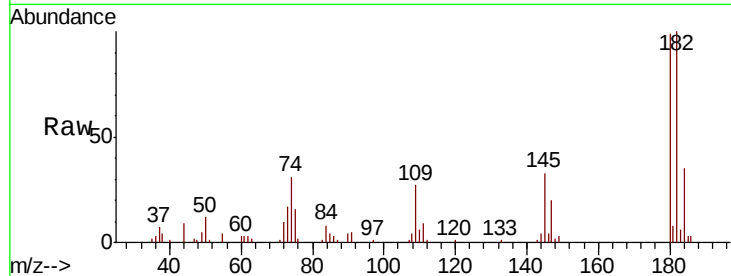




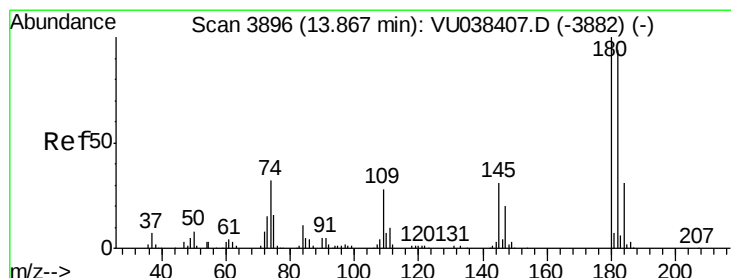
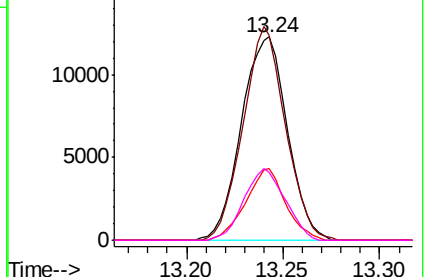
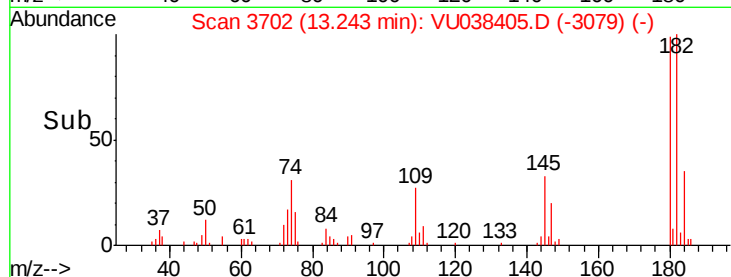
#67  
 1,3,5-Trichlorobenzene  
 Concen: 0.558 ug/L  
 RT: 13.24 min Scan# 3702  
 Delta R.T. 0.00 min  
 Lab File: VU038405.D  
 Acq: 30 May 2020 11:13

Instrument :  
 MSVOA\_U  
 ClientSampleId :

|             |       |            |
|-------------|-------|------------|
| Tot Ion:180 | Resp: | 20285      |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 96.8  | 76.8 115.2 |
| 184         | 30.7  | 25.1 37.7  |
| 145         | 31.6  | 24.6 37.0  |

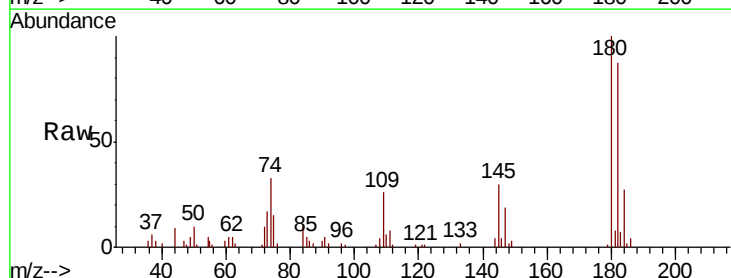


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

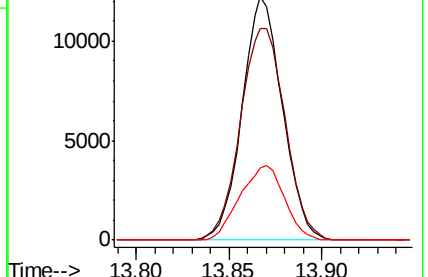
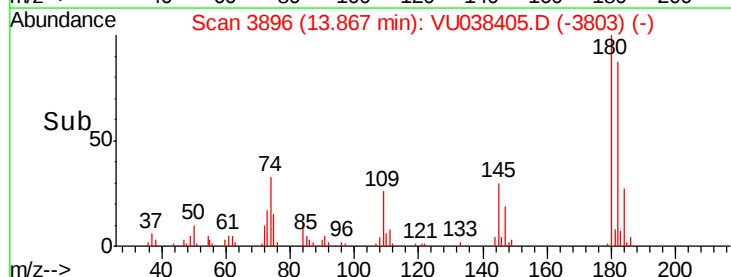


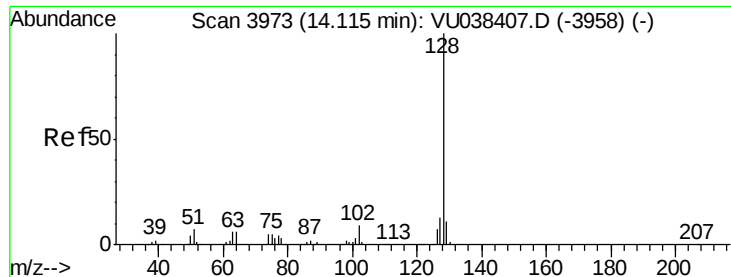
#68  
 1,2,4-trichlorobenzene  
 Concen: 0.551 ug/L  
 RT: 13.87 min Scan# 3896  
 Delta R.T. -0.00 min  
 Lab File: VU038405.D  
 Acq: 30 May 2020 11:13

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 18528      |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 96.5  | 75.8 113.8 |
| 145         | 33.7  | 25.3 37.9  |



Abundance Ion 179.90 (179.60 to 180.60): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 0.519 ug/L

RT: 14.12 min Scan# 3974

Delta R.T. 0.00 min

Lab File: VU038405.D

Acq: 30 May 2020 11:13

Instrument :

MSVOA\_U

ClientSampled :

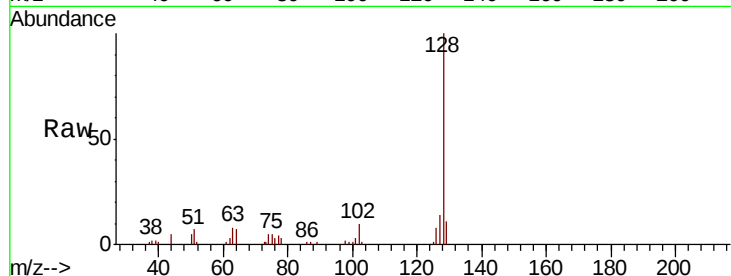
Tot Ion:128 Resp: 34737

Ion Ratio Lower Upper

128 100

129 10.2 8.9 13.3

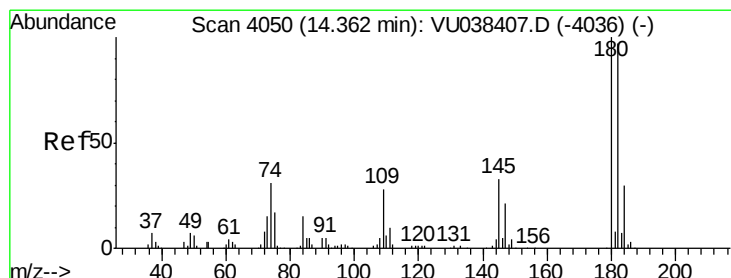
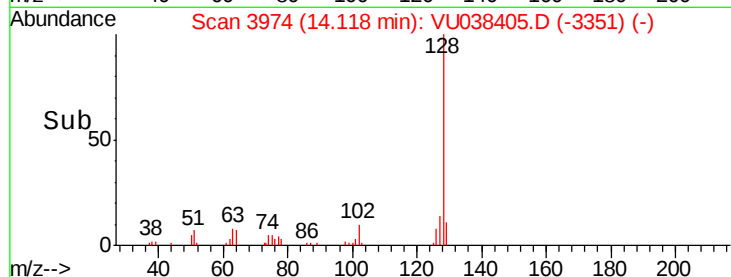
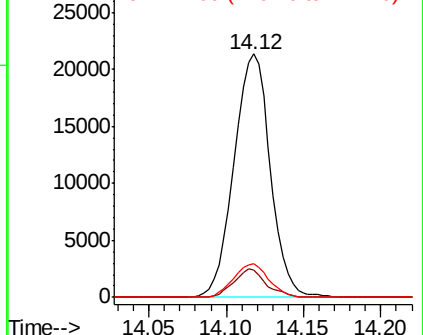
127 13.2 10.2 15.4



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: 0.550 ug/L

RT: 14.36 min Scan# 4050

Delta R.T. -0.00 min

Lab File: VU038405.D

Acq: 30 May 2020 11:13

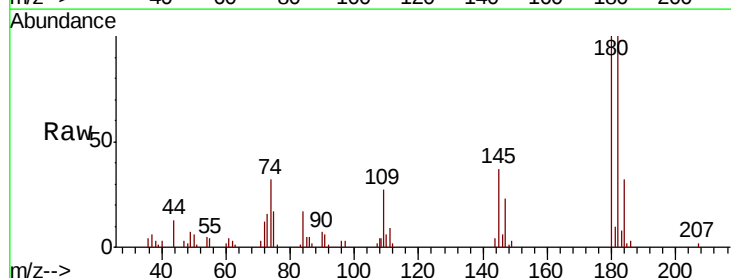
Tgt Ion:180 Resp: 16832

Ion Ratio Lower Upper

180 100

182 98.6 78.7 118.1

145 35.8 27.5 41.3



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

