

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU012920\  
 Data File : VU036576.D  
 Acq On : 28 Jan 2020 16:07  
 Operator : JC/MD  
 Sample : VSTD00535  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Jan 29 04:15:54 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM012920WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Jan 29 04:13:54 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.29  | 114  | 289501   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.45  | 117  | 269712   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.84 | 152  | 109683   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |       |      |      |      |
|--------------------------------|-------|-----|-------|------|------|------|
| 4) Vinyl Chloride-d3           | 1.61  | 65  | 9728  | 5.05 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.93  | 69  | 8513  | 5.11 | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 2.60  | 63  | 15932 | 4.47 | ug/L | 0.00 |
| 21) 2-Butanone-d5              | 4.68  | 46  | 10191 | 6.55 | ug/L | 0.00 |
| 24) Chloroform-d               | 5.11  | 84  | 14621 | 3.96 | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.74  | 65  | 9848  | 4.06 | ug/L | 0.00 |
| 32) Benzene-d6                 | 5.77  | 84  | 33994 | 4.78 | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 6.73  | 67  | 10343 | 4.50 | ug/L | 0.00 |
| 41) Toluene-d8                 | 7.93  | 98  | 32423 | 4.80 | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 8.21  | 79  | 4567  | 3.76 | ug/L | 0.00 |
| 47) 2-Hexanone-d5              | 8.68  | 63  | 7959  | 6.88 | ug/L | 0.00 |
| 57) 1,1,2,2-Tetrachloroethane- | 10.78 | 84  | 14504 | 4.22 | ug/L | 0.00 |
| 64) 1,2-Dichlorobenzene-d4     | 12.22 | 152 | 10796 | 4.96 | ug/L | 0.00 |

## Target Compounds

|                                |      |     |       |            | Qvalue |
|--------------------------------|------|-----|-------|------------|--------|
| 2) Dichlorodifluoromethane     | 1.39 | 85  | 10653 | 4.150 ug/L | 98     |
| 3) Chloromethane               | 1.54 | 50  | 10870 | 4.569 ug/L | 99     |
| 5) Vinyl chloride              | 1.62 | 62  | 12099 | 5.034 ug/L | 97     |
| 6) Bromomethane                | 1.87 | 94  | 7443  | 5.133 ug/L | 100    |
| 8) Chloroethane                | 1.95 | 64  | 7468  | 5.210 ug/L | 97     |
| 9) Trichlorofluoromethane      | 2.16 | 101 | 14101 | 4.436 ug/L | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.61 | 101 | 8948  | 5.163 ug/L | 98     |
| 12) 1,1-Dichloroethene         | 2.61 | 96  | 8594  | 5.012 ug/L | 94     |
| 13) Acetone                    | 2.66 | 43  | 13847 | 8.364 ug/L | 98     |
| 14) Carbon disulfide           | 2.82 | 76  | 25887 | 4.721 ug/L | 99     |
| 15) Methyl Acetate             | 2.99 | 43  | 8700  | 3.850 ug/L | 98     |
| 16) Methylene chloride         | 3.08 | 84  | 11017 | 5.213 ug/L | 99     |
| 17) trans-1,2-Dichloroethene   | 3.39 | 96  | 8860  | 4.696 ug/L | 96     |
| 18) Methyl tert-butyl Ether    | 3.41 | 73  | 29062 | 4.583 ug/L | 100    |
| 19) 1,1-Dichloroethane         | 3.92 | 63  | 16278 | 4.647 ug/L | 99     |
| 20) cis-1,2-Dichloroethene     | 4.71 | 96  | 9916  | 4.602 ug/L | 95     |
| 22) 2-Butanone                 | 4.76 | 43  | 13336 | 7.044 ug/L | 98     |
| 23) Bromochloromethane         | 5.02 | 128 | 5372  | 5.078 ug/L | 95     |
| 25) Chloroform                 | 5.13 | 83  | 17437 | 4.686 ug/L | 98     |
| 27) 1,2-Dichloroethane         | 5.84 | 62  | 12834 | 4.400 ug/L | 100    |
| 29) Cyclohexane                | 5.43 | 56  | 15298 | 4.826 ug/L | 99     |
| 30) 1,1,1-Trichloroethane      | 5.36 | 97  | 13701 | 4.423 ug/L | 98     |
| 31) Carbon tetrachloride       | 5.56 | 117 | 11630 | 4.395 ug/L | 100    |
| 33) Benzene                    | 5.82 | 78  | 39474 | 5.094 ug/L | 100    |
| 34) Trichloroethene            | 6.58 | 95  | 10244 | 4.962 ug/L | 94     |
| 35) Methylcyclohexane          | 6.80 | 83  | 16941 | 5.240 ug/L | 99     |
| 37) 1,2-Dichloropropane        | 6.83 | 63  | 9978  | 4.864 ug/L | # 94   |
| 38) Bromodichloromethane       | 7.14 | 83  | 11842 | 4.281 ug/L | 99     |
| 39) cis-1,3-Dichloropropene    | 7.64 | 75  | 14416 | 4.368 ug/L | 99     |
| 40) 4-Methyl-2-pentanone       | 7.83 | 43  | 23693 | 7.468 ug/L | 97     |

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 Operator : JC/MD  
 Sample : VSTD00535  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

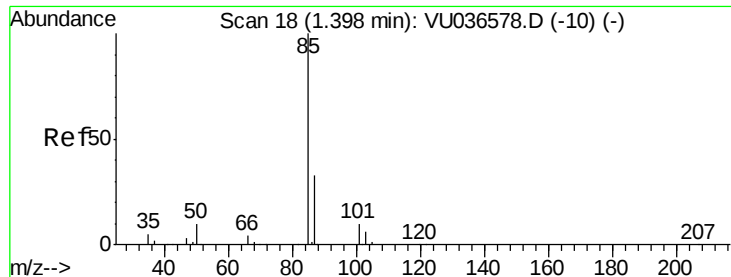
Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Jan 29 04:15:54 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM012920WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Jan 29 04:13:54 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 42) Toluene                    | 8.00  | 91   | 41993    | 4.985 | ug/L  | 97       |
| 44) trans-1,3-Dichloropropene  | 8.24  | 75   | 12417    | 4.110 | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane      | 8.43  | 97   | 9997     | 5.061 | ug/L  | 95       |
| 46) Tetrachloroethene          | 8.58  | 164  | 8294     | 5.737 | ug/L  | 95       |
| 48) 2-Hexanone                 | 8.73  | 43   | 16665    | 6.644 | ug/L  | 94       |
| 49) Dibromochloromethane       | 8.84  | 129  | 9745     | 4.489 | ug/L  | 99       |
| 50) 1,2-Dibromoethane          | 8.95  | 107  | 10215    | 4.606 | ug/L  | 96       |
| 51) Chlorobenzene              | 9.47  | 112  | 27118    | 5.087 | ug/L  | 96       |
| 52) Ethylbenzene               | 9.60  | 91   | 46118    | 4.930 | ug/L  | 97       |
| 53) m,p-Xylene                 | 9.72  | 106  | 17370    | 4.920 | ug/L  | 96       |
| 54) o-xylene                   | 10.13 | 106  | 17748    | 5.021 | ug/L  | 93       |
| 55) Styrene                    | 10.14 | 104  | 26665    | 4.662 | ug/L  | 97       |
| 56) Isopropylbenzene           | 10.51 | 105  | 44616    | 4.953 | ug/L  | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.81 | 83   | 16033    | 4.693 | ug/L  | 97       |
| 59) 1,2,3-Trichloropropane     | 10.85 | 75   | 12928    | 4.605 | ug/L  | 99       |
| 61) Bromoform                  | 10.32 | 173  | 7247     | 4.873 | ug/L  | 92       |
| 62) 1,3-Dichlorobenzene        | 11.77 | 146  | 18060    | 5.169 | ug/L  | 97       |
| 63) 1,4-Dichlorobenzene        | 11.86 | 146  | 17476    | 5.012 | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene        | 12.24 | 146  | 18518    | 5.362 | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan | 13.02 | 75   | 2567     | 3.540 | ug/L  | 97       |
| 67) 1,3,5-Trichlorobenzene     | 13.24 | 180  | 11004    | 5.049 | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene     | 13.86 | 180  | 5086     | 3.157 | ug/L  | 97       |
| 69) Naphthalene                | 14.10 | 128  | 11041    | 2.084 | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene     | 14.35 | 180  | 5630     | 3.359 | ug/L  | 96       |

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





#2

Dichlorodifluoromethane

Concen: 4.150 ug/L

RT: 1.39 min Scan# 17

Delta R.T. -0.00 min

Lab File: VU036576.D

Acq: 28 Jan 2020 16:07

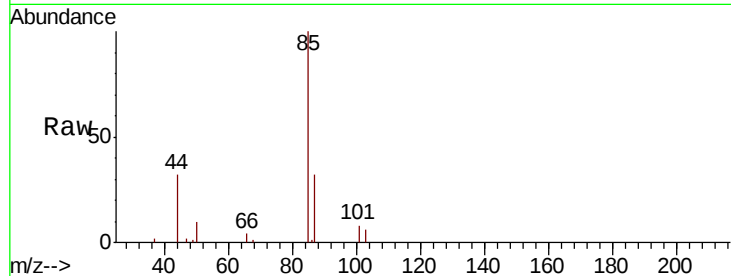
Instrument :  
MSVOA\_U  
ClientSampled :

Tot Ion: 85 Resp: 10653

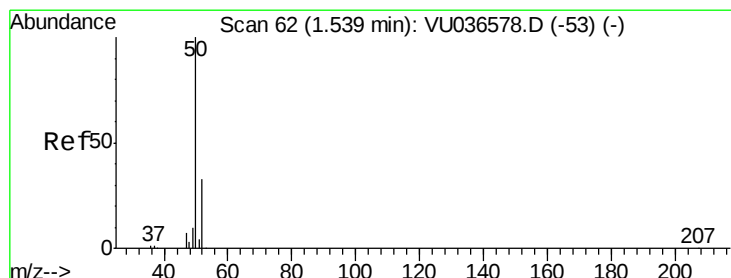
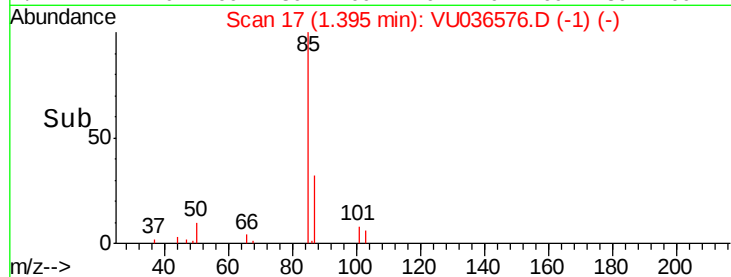
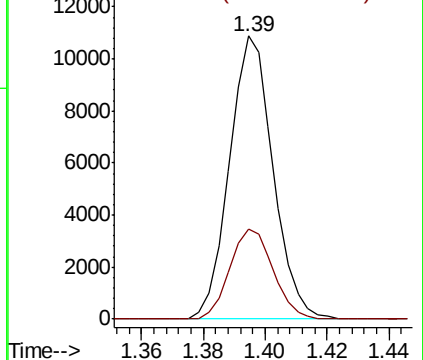
Ion Ratio Lower Upper

85 100

87 31.5 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VU036578.D (-10) (-)



#3

Chloromethane

Concen: 4.569 ug/L

RT: 1.54 min Scan# 62

Delta R.T. -0.00 min

Lab File: VU036576.D

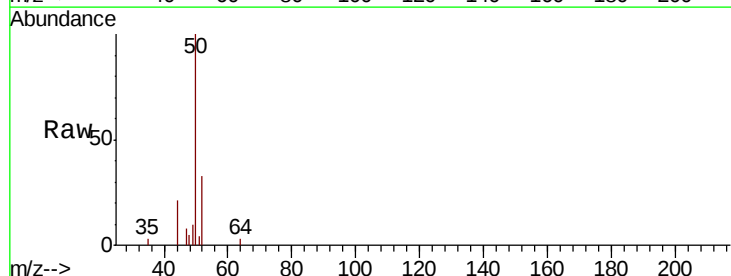
Acq: 28 Jan 2020 16:07

Tgt Ion: 50 Resp: 10870

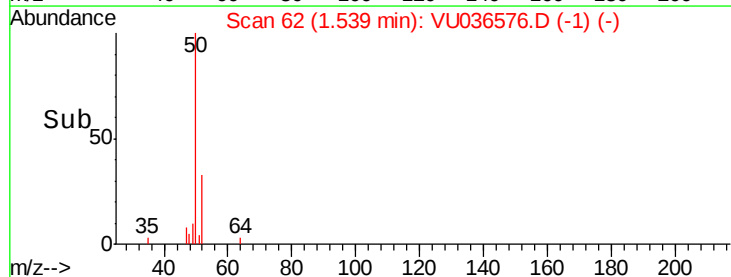
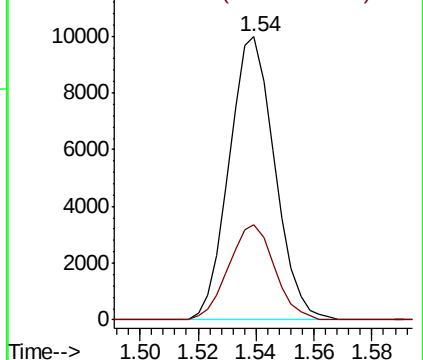
Ion Ratio Lower Upper

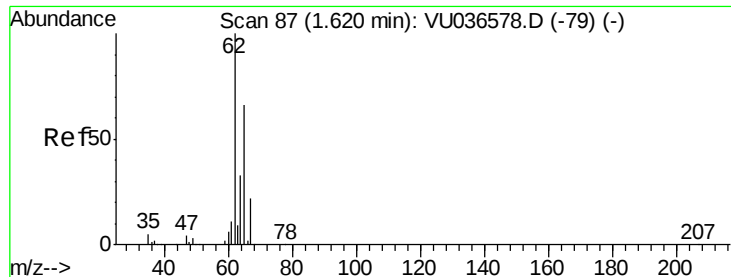
50 100

52 33.5 23.2 43.0



Abundance Ion 50.00 (49.70 to 50.70): VU036578.D (-53) (-)





#5

Vinyl chloride

Concen: 5.034 ug/L

RT: 1.62 min Scan# 87

Delta R.T. -0.00 min

Lab File: VU036576.D

Acq: 28 Jan 2020 16:07

Instrument :

MSVOA\_U

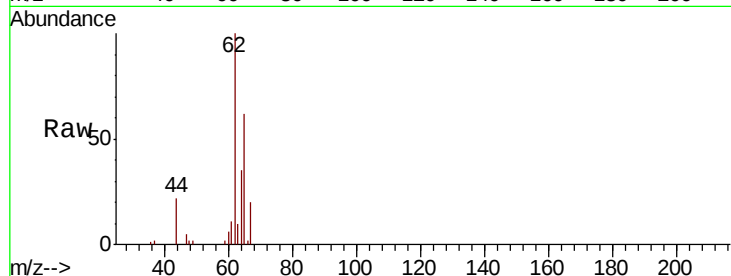
ClientSampleId :

Tot Ion: 62 Resp: 12099

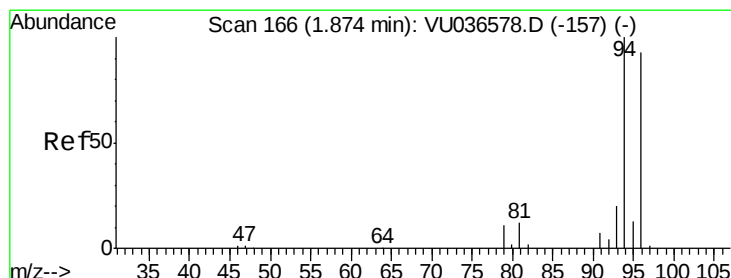
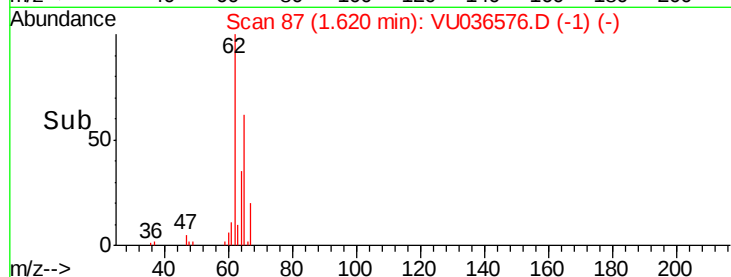
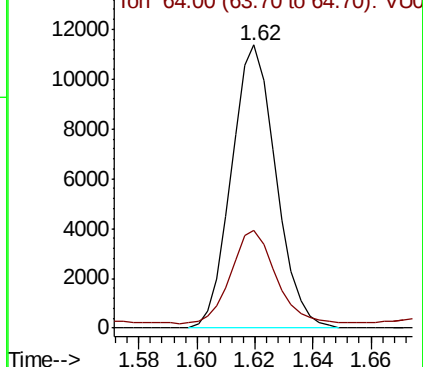
Ion Ratio Lower Upper

62 100

64 34.7 22.9 42.5



Abundance Ion 62.00 (61.70 to 62.70): VU036576.D (-79) (-)



#6

Bromomethane

Concen: 5.133 ug/L

RT: 1.87 min Scan# 166

Delta R.T. -0.00 min

Lab File: VU036576.D

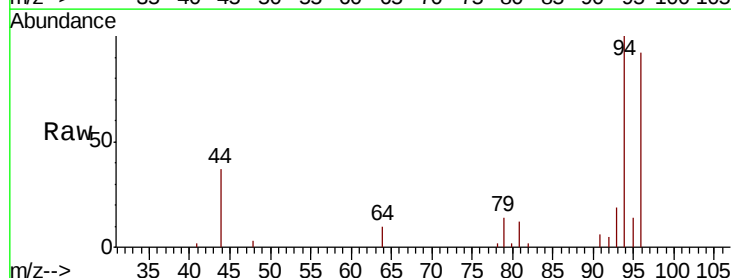
Acq: 28 Jan 2020 16:07

Tgt Ion: 94 Resp: 7443

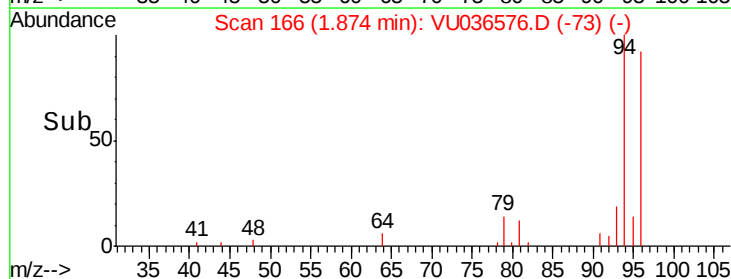
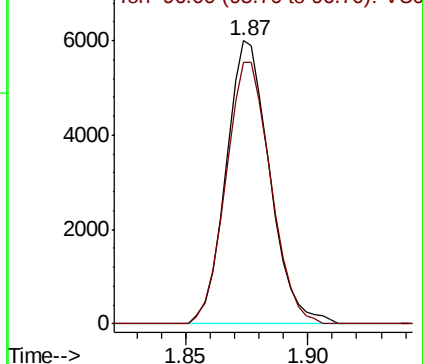
Ion Ratio Lower Upper

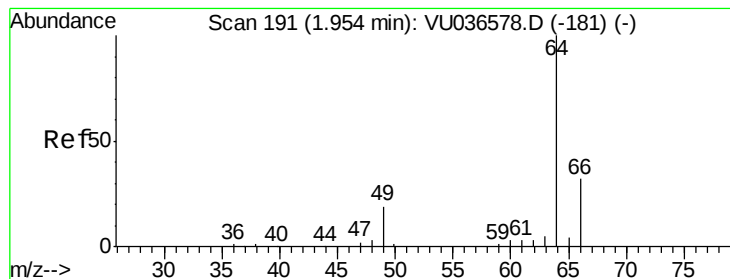
94 100

96 92.4 64.8 120.4



Abundance Ion 94.00 (93.70 to 94.70): VU036576.D (-157) (-)





#8

Chloroethane

Concen: 5.210 ug/L

RT: 1.95 min Scan# 191

Delta R.T. -0.00 min

Lab File: VU036576.D

Acq: 28 Jan 2020 16:07

Instrument :

MSVOA\_U

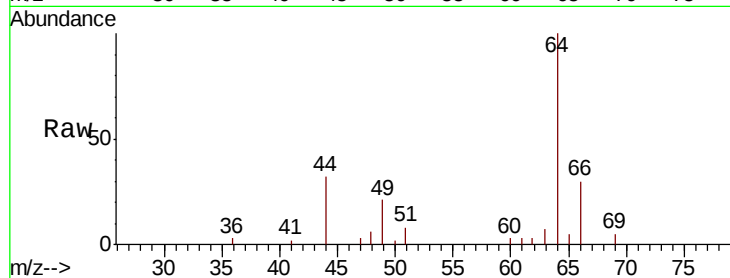
ClientSampleId :

Tot Ion: 64 Resp: 7468

Ion Ratio Lower Upper

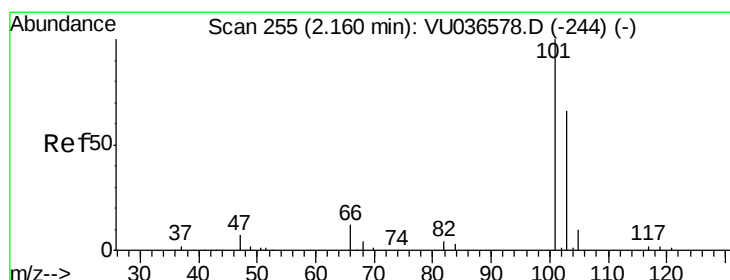
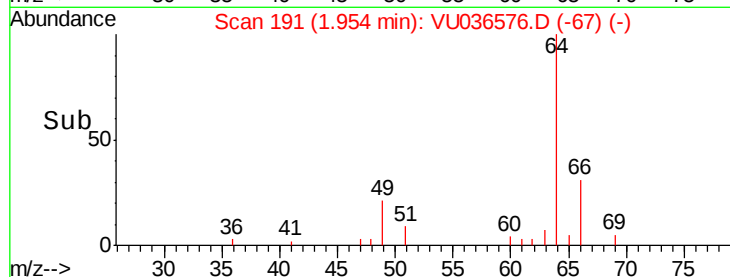
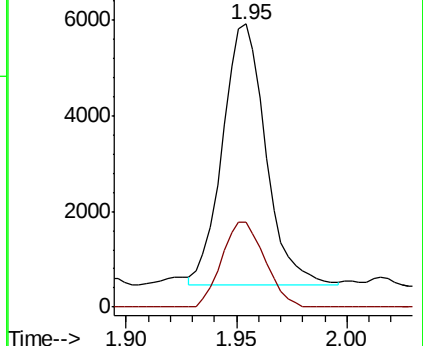
64 100

66 30.2 22.4 41.6



Abundance Ion 64.00 (63.70 to 64.70): VU036578.D (-181) (-)

Ion 66.00 (65.70 to 66.70): VU036578.D (-181) (-)



#9

Trichlorofluoromethane

Concen: 4.436 ug/L

RT: 2.16 min Scan# 255

Delta R.T. -0.00 min

Lab File: VU036576.D

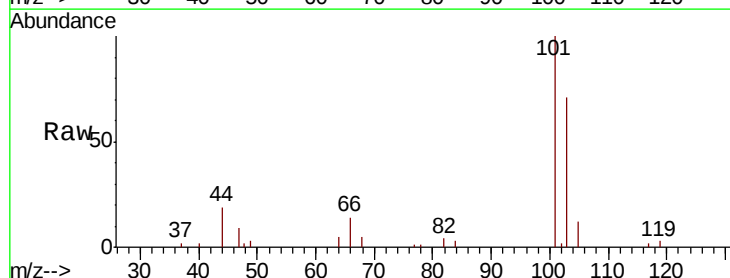
Acq: 28 Jan 2020 16:07

Tgt Ion: 101 Resp: 14101

Ion Ratio Lower Upper

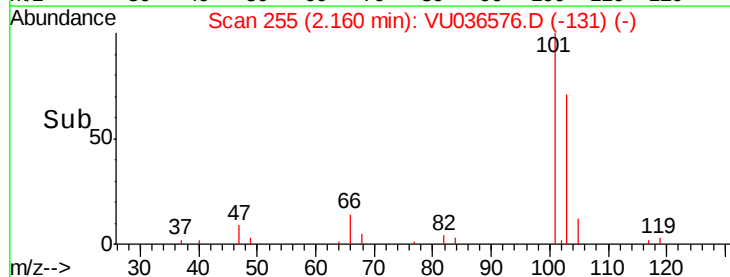
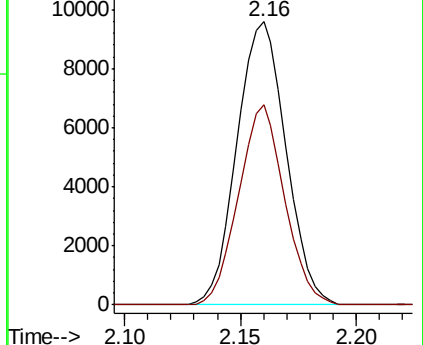
101 100

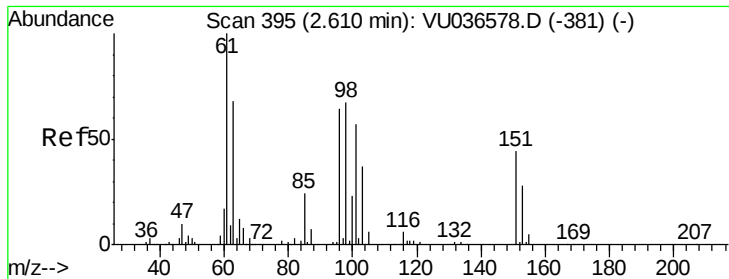
103 66.2 52.4 78.6



Abundance Ion 101.00 (100.70 to 101.70): VU036578.D (-244) (-)

Ion 103.00 (102.70 to 103.70): VU036578.D (-244) (-)





#10

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

Concen: 5.163 ug/L

RT: 2.61 min Scan# 394

Delta R.T. -0.00 min

Lab File: VU036576.D

Acq: 28 Jan 2020 16:07

Instrument :

MSVOA\_U

ClientSampleId :

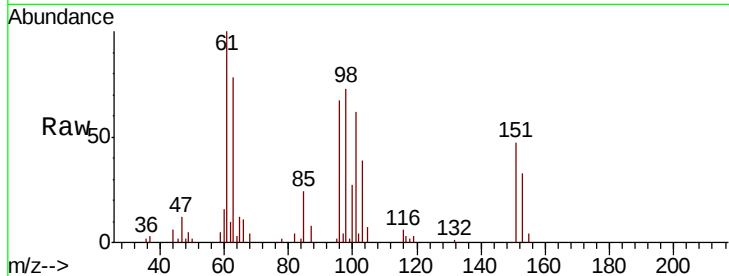
Tot Ion:101 Resp: 8948

Ion Ratio Lower Upper

101 100

85 40.1 32.6 49.0

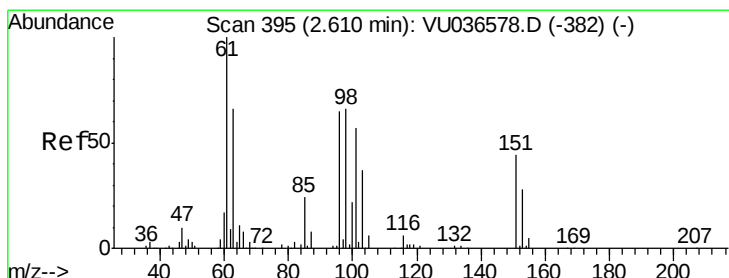
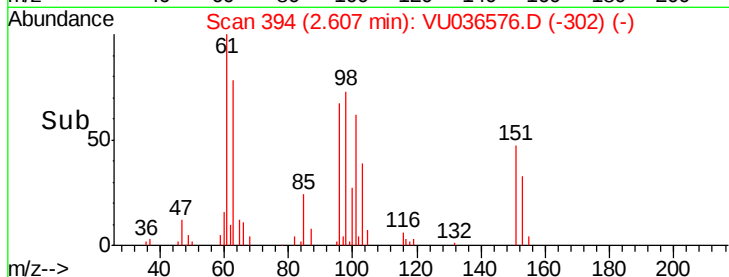
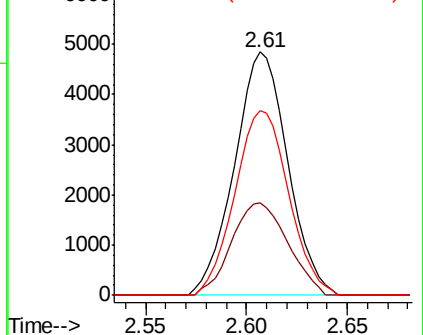
151 76.9 60.3 90.5



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: 5.012 ug/L

RT: 2.61 min Scan# 394

Delta R.T. -0.00 min

Lab File: VU036576.D

Acq: 28 Jan 2020 16:07

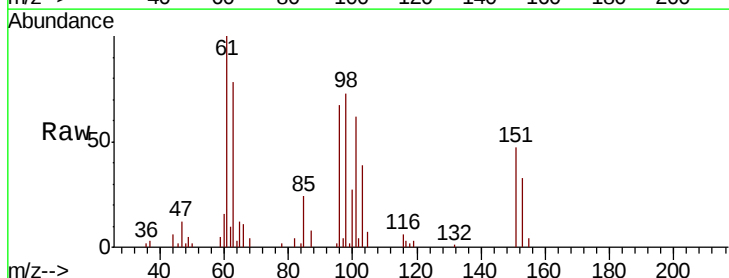
Tgt Ion: 96 Resp: 8594

Ion Ratio Lower Upper

96 100

61 150.2 108.6 201.8

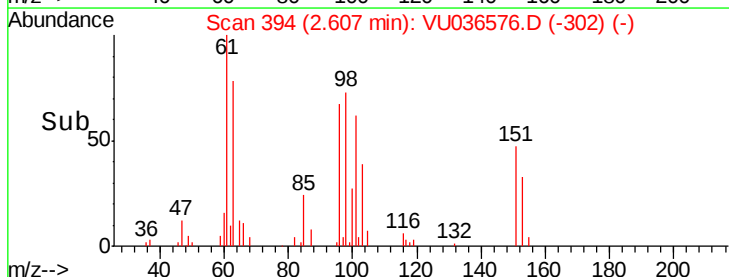
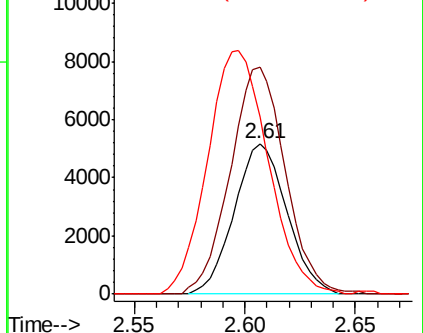
63 117.1 75.0 139.2

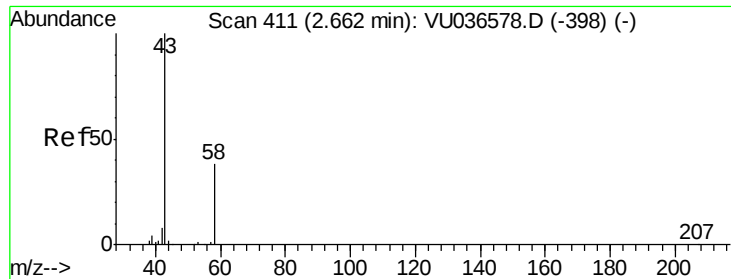


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 8.364 ug/L

RT: 2.66 min Scan# 410

Delta R.T. -0.00 min

Lab File: VU036576.D

Acq: 28 Jan 2020 16:07

Instrument :

MSVOA\_U

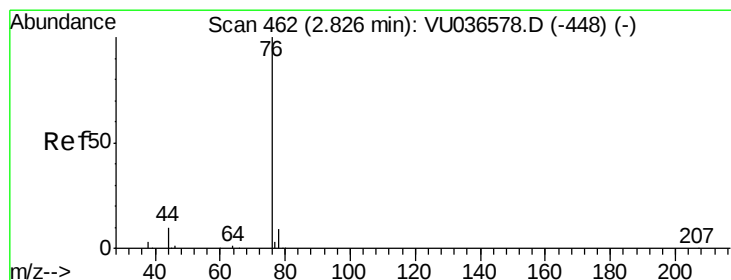
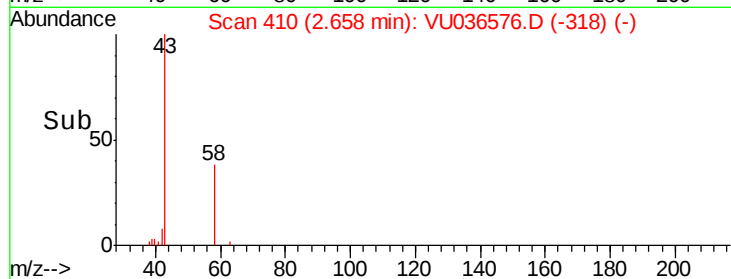
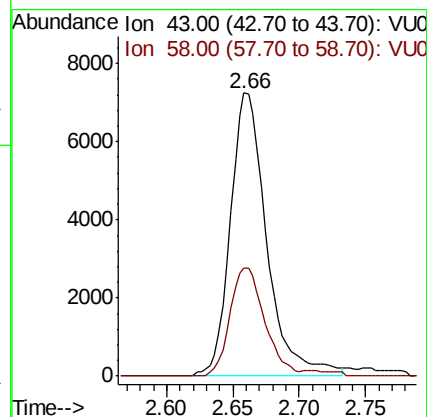
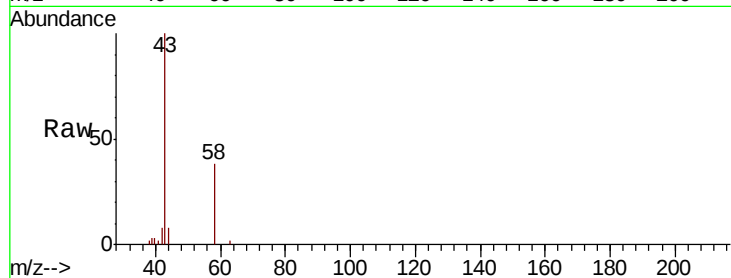
ClientSampleId :

Tot Ion: 43 Resp: 13847

Ion Ratio Lower Upper

43 100

58 36.4 0.0 75.4



#14

Carbon disulfide

Concen: 4.721 ug/L

RT: 2.82 min Scan# 461

Delta R.T. -0.00 min

Lab File: VU036576.D

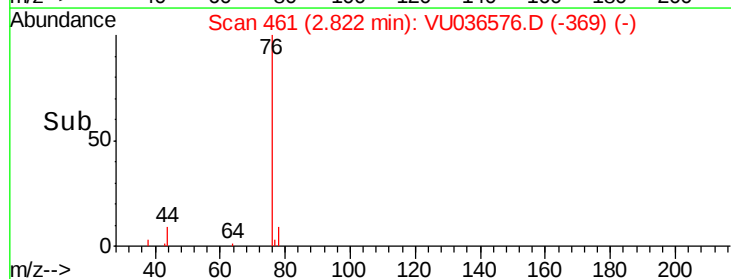
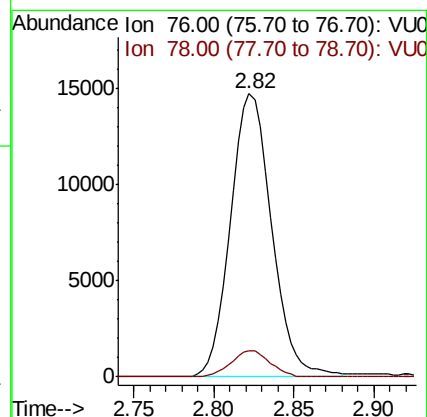
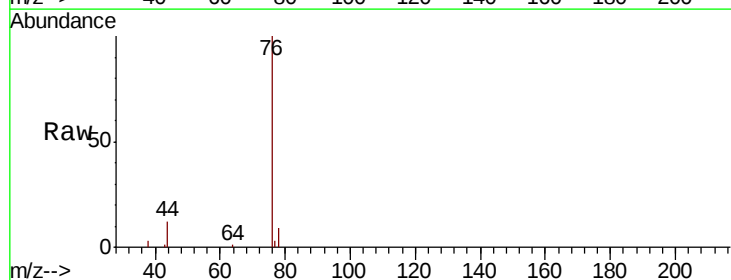
Acq: 28 Jan 2020 16:07

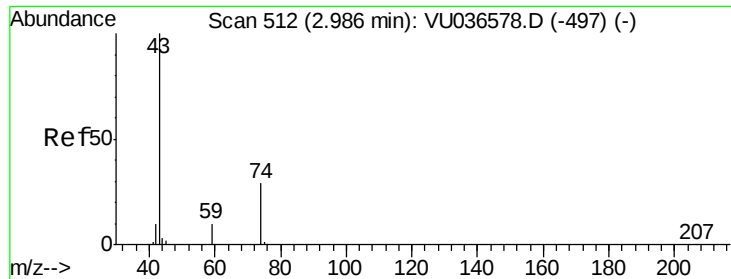
Tgt Ion: 76 Resp: 25887

Ion Ratio Lower Upper

76 100

78 9.4 7.2 10.8

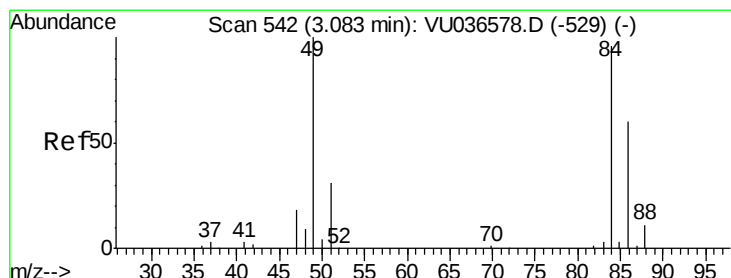
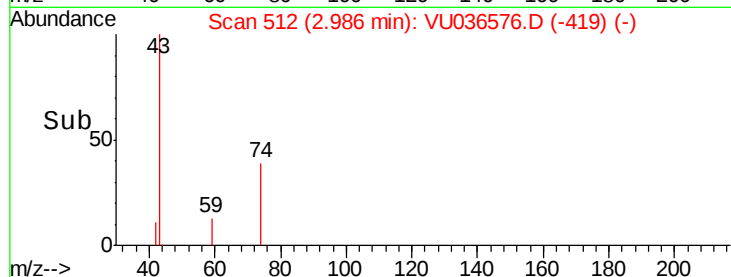
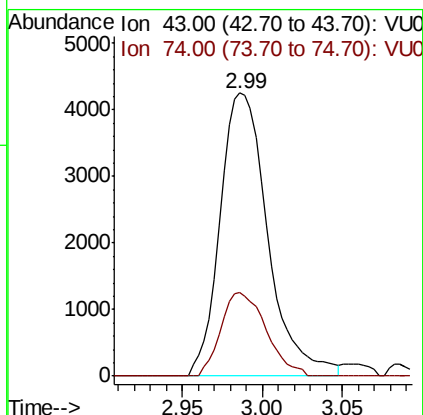
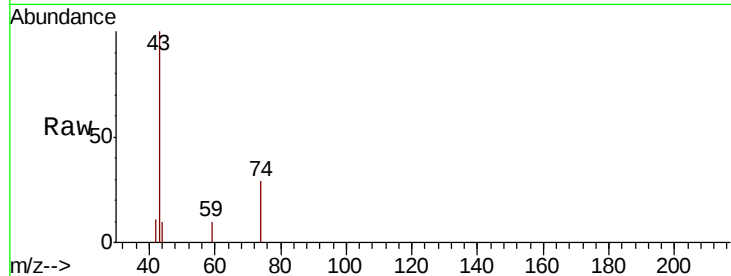




#15  
Methvl Acetate  
Concen: 3.850 ug/L  
RT: 2.99 min Scan# 512  
Delta R.T. -0.00 min  
Lab File: VU036576.D  
Acq: 28 Jan 2020 16:07

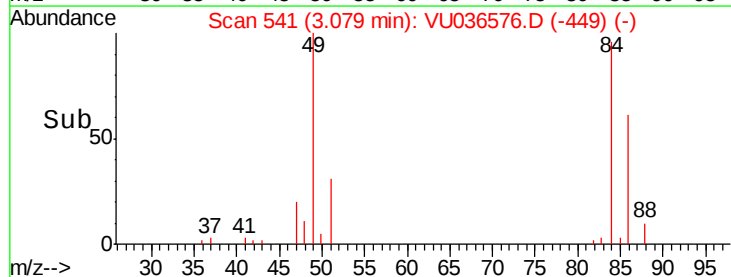
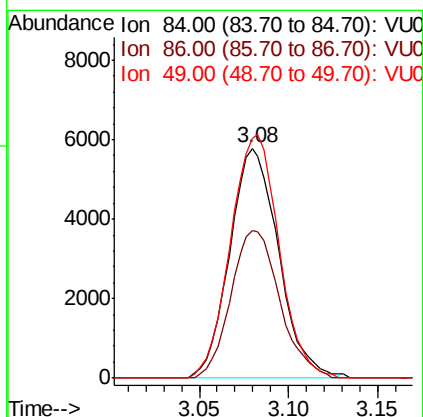
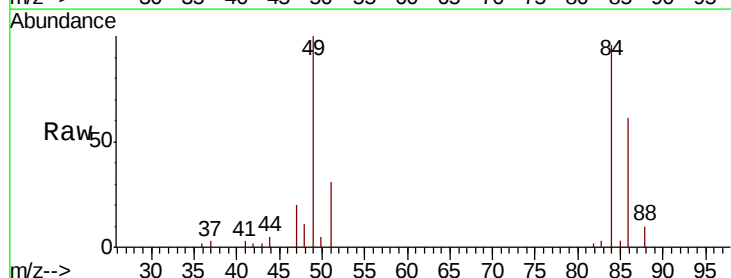
Instrument :  
MSVOA\_U  
ClientSampled :

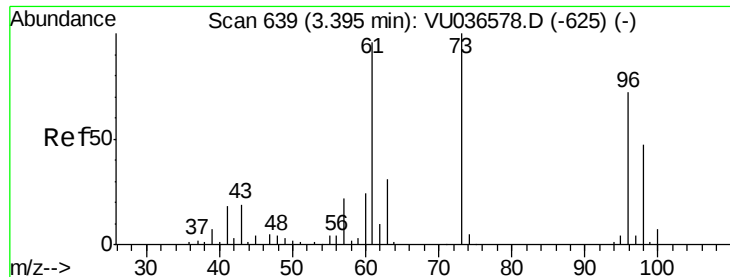
Tot Ion: 43 Resp: 8700  
Ion Ratio Lower Upper  
43 100  
74 27.8 23.3 34.9



#16  
Methylene chloride  
Concen: 5.213 ug/L  
RT: 3.08 min Scan# 541  
Delta R.T. -0.00 min  
Lab File: VU036576.D  
Acq: 28 Jan 2020 16:07

Tgt Ion: 84 Resp: 11017  
Ion Ratio Lower Upper  
84 100  
86 64.1 44.1 81.9  
49 104.3 73.3 136.1

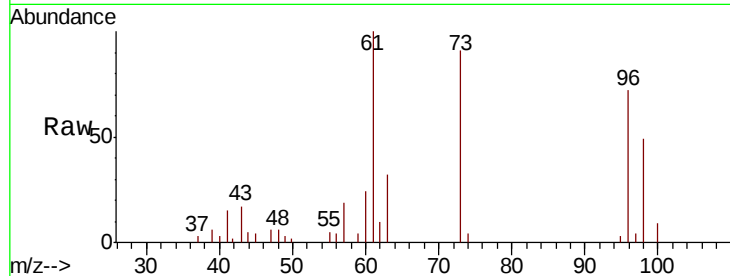




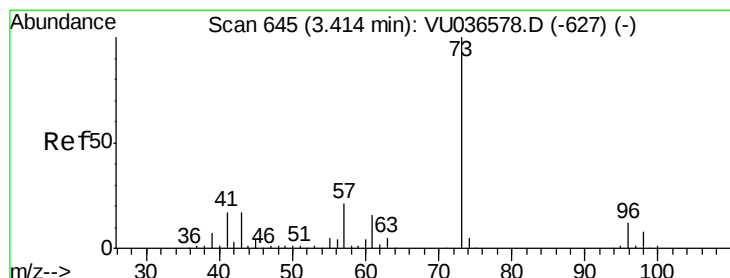
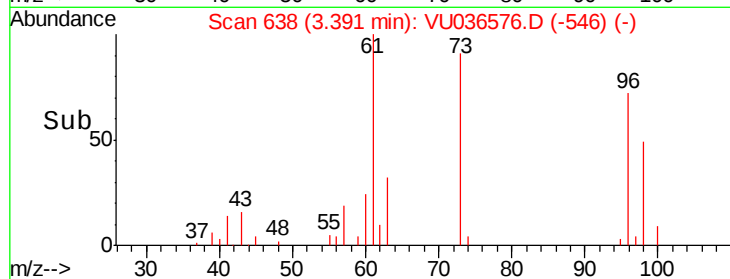
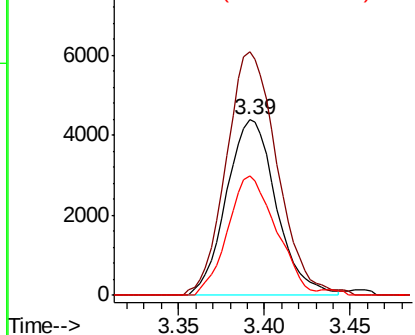
#17  
trans-1,2-Dichloroethene  
Concen: 4.696 ug/L  
RT: 3.39 min Scan# 638  
Delta R.T. -0.00 min  
Lab File: VU036576.D  
Acq: 28 Jan 2020 16:07

Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 96 Resp: 8860  
Ion Ratio Lower Upper  
96 100  
61 138.8 93.4 173.4  
98 68.1 46.1 85.5

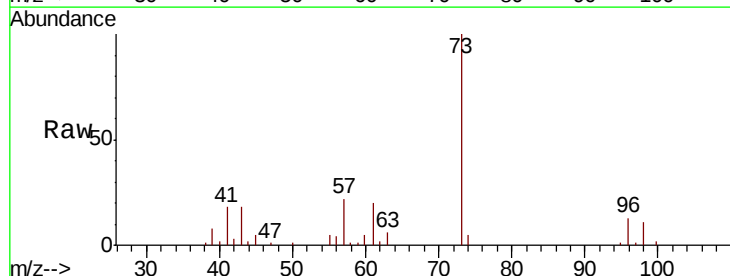


Abundance Ion 96.00 (95.70 to 96.70): VU0  
Ion 61.00 (60.70 to 61.70): VU0  
Ion 98.00 (97.70 to 98.70): VU0

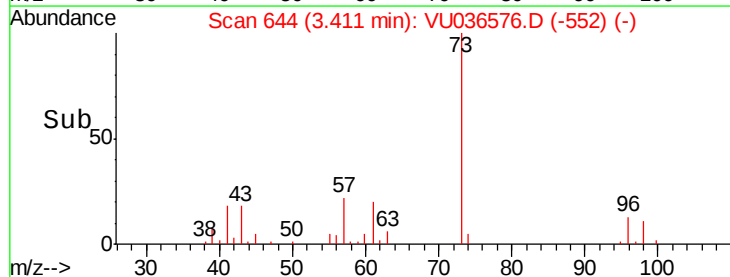
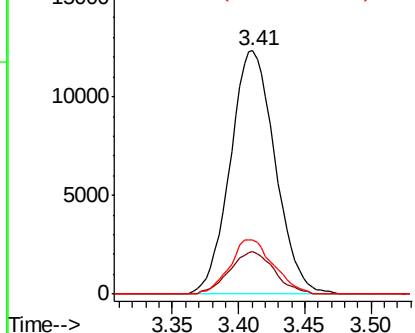


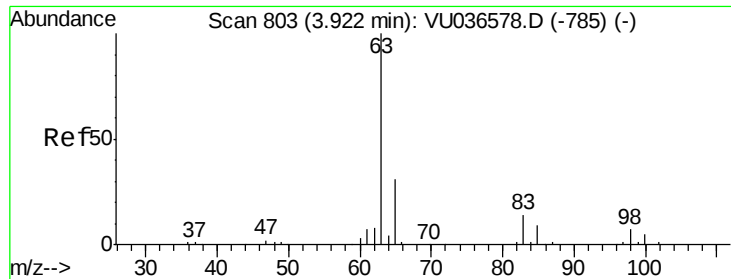
#18  
Methyl tert-butyl Ether  
Concen: 4.583 ug/L  
RT: 3.41 min Scan# 644  
Delta R.T. -0.00 min  
Lab File: VU036576.D  
Acq: 28 Jan 2020 16:07

Tgt Ion: 73 Resp: 29062  
Ion Ratio Lower Upper  
73 100  
43 17.4 14.2 21.4  
57 21.6 17.3 25.9



Abundance Ion 73.00 (72.70 to 73.70): VU0  
Ion 43.00 (42.70 to 43.70): VU0  
Ion 57.00 (56.70 to 57.70): VU0

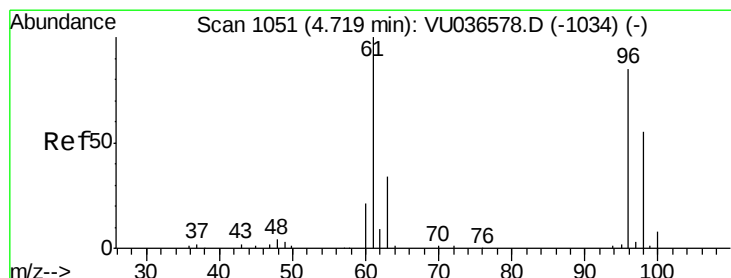
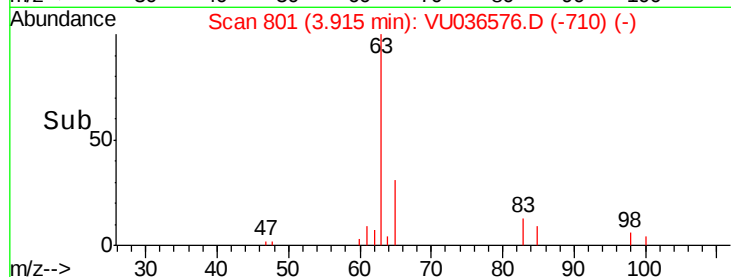
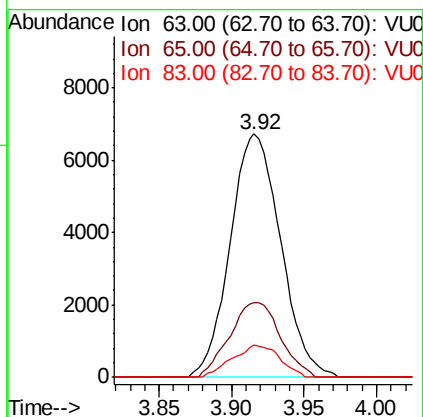
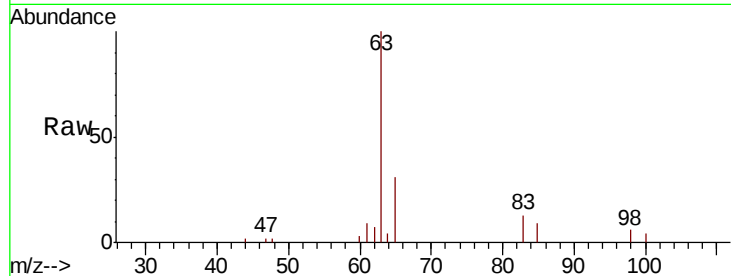




#19  
 1,1-Dichloroethane  
 Concen: 4.647 ug/L  
 RT: 3.92 min Scan# 801  
 Delta R.T. -0.01 min  
 Lab File: VU036576.D  
 Acq: 28 Jan 2020 16:07

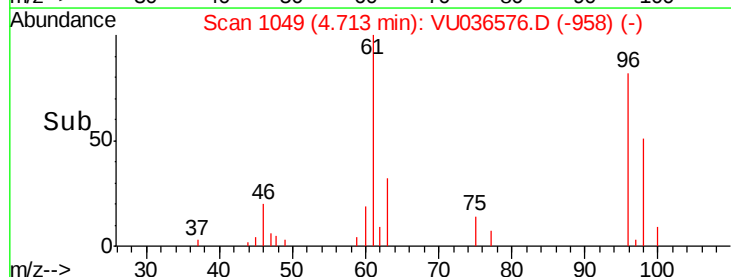
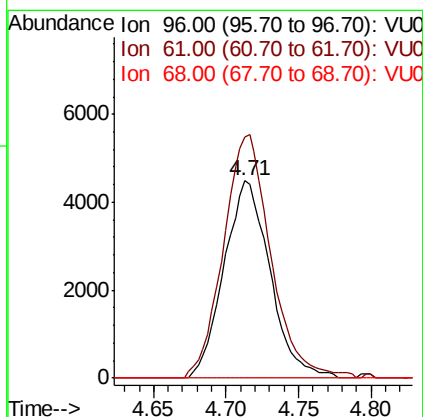
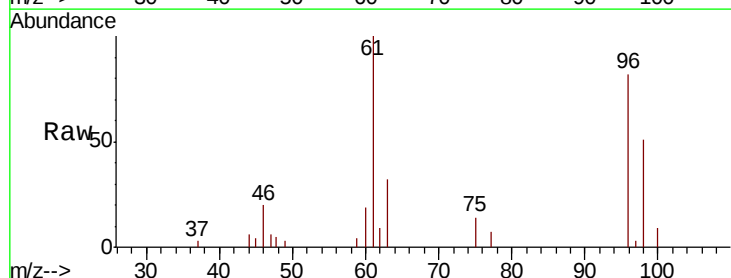
Instrument :  
 MSVOA\_U  
 ClientSampleId :

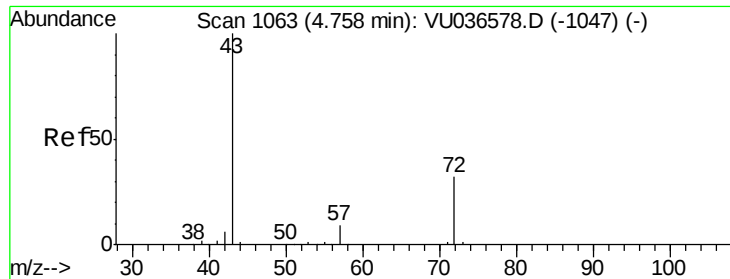
Tot Ion: 63 Resp: 16278  
 Ion Ratio Lower Upper  
 63 100  
 65 30.6 21.9 40.7  
 83 13.4 9.7 17.9



#20  
 cis-1,2-Dichloroethene  
 Concen: 4.602 ug/L  
 RT: 4.71 min Scan# 1049  
 Delta R.T. -0.01 min  
 Lab File: VU036576.D  
 Acq: 28 Jan 2020 16:07

Tgt Ion: 96 Resp: 9916  
 Ion Ratio Lower Upper  
 96 100  
 61 122.4 82.2 152.6  
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 7.044 ug/L

RT: 4.76 min Scan# 1064

Delta R.T. 0.00 min

Lab File: VU036576.D

Acq: 28 Jan 2020 16:07

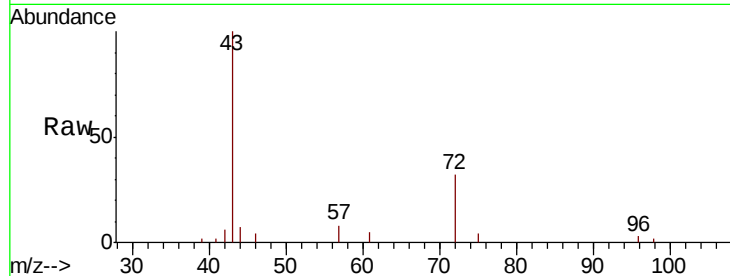
Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 43 Resp: 13336

Ion Ratio Lower Upper

43 100

72 32.4 16.7 50.1



Abundance Ion 43.00 (42.70 to 43.70): VU036576.D (-970) (-)

Ion 72.00 (71.70 to 72.70): VU036576.D (-970) (-)

4.76

6000

5000

4000

3000

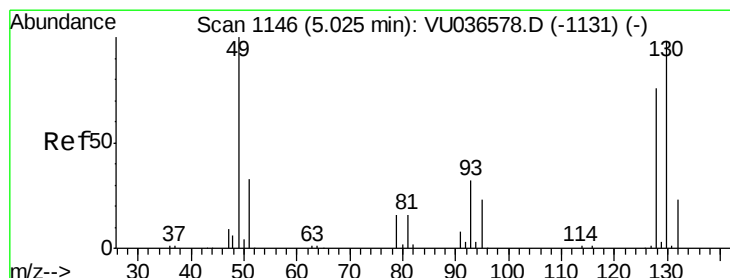
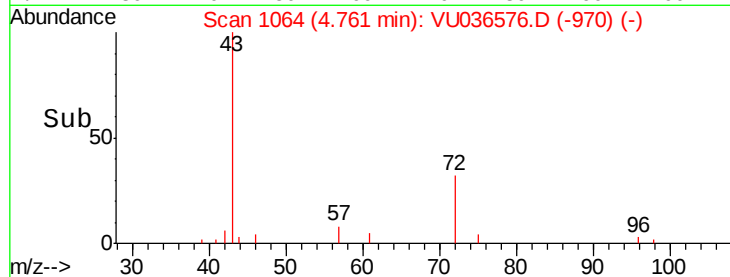
2000

1000

0

4.70 4.75 4.80 4.85

Time-->



#23

Bromochloromethane

Concen: 5.078 ug/L

RT: 5.02 min Scan# 1145

Delta R.T. -0.00 min

Lab File: VU036576.D

Acq: 28 Jan 2020 16:07

Tgt Ion: 128 Resp: 5372

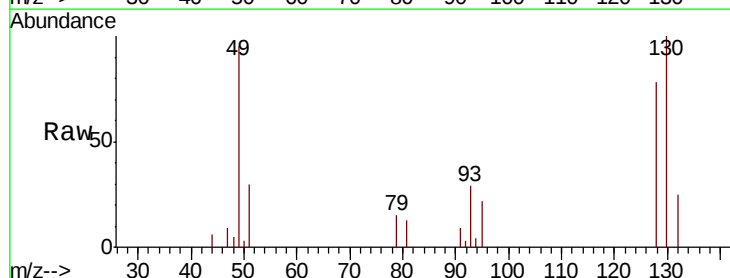
Ion Ratio Lower Upper

128 100

49 122.1 92.5 171.9

130 129.0 90.4 168.0

51 38.1 34.6 52.0



Abundance Ion 128.00 (127.70 to 128.70): VU036576.D (-1053) (-)

Ion 49.00 (48.70 to 49.70): VU036576.D (-1053) (-)

Ion 130.00 (129.70 to 130.70): VU036576.D (-1053) (-)

Ion 51.00 (50.70 to 51.70): VU036576.D (-1053) (-)

5000

4000

3000

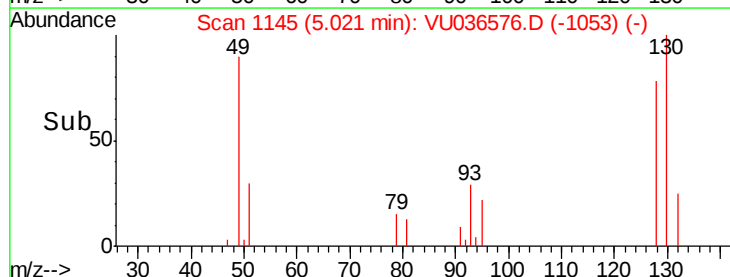
2000

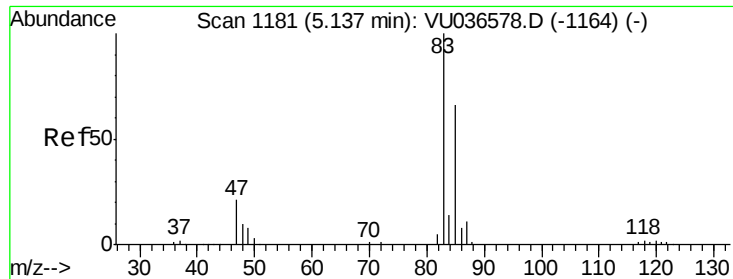
1000

0

4.95 5.00 5.05 5.10

Time-->

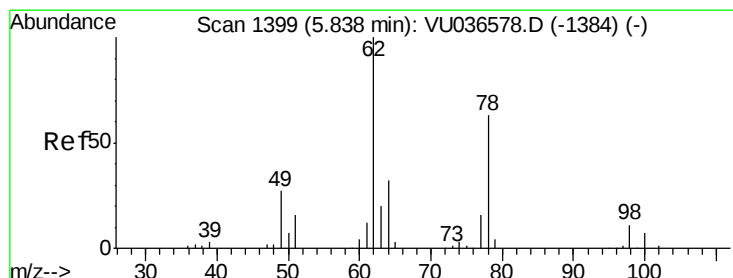
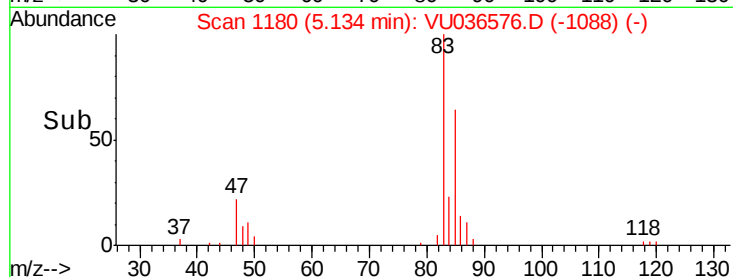
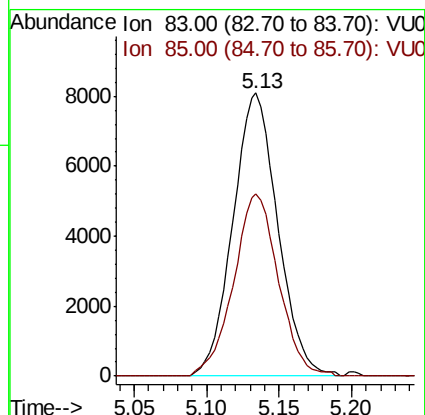
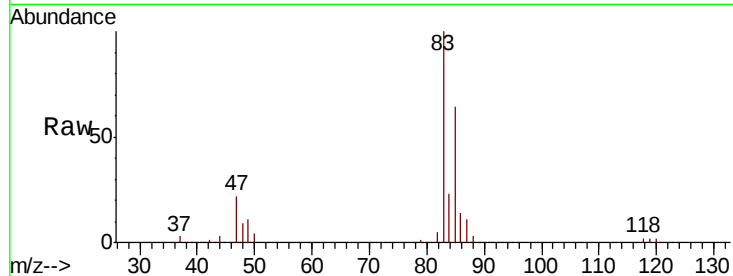




#25  
Chloroform  
Concen: 4.686 ug/L  
RT: 5.13 min Scan# 1180  
Delta R.T. -0.00 min  
Lab File: VU036576.D  
Acq: 28 Jan 2020 16:07

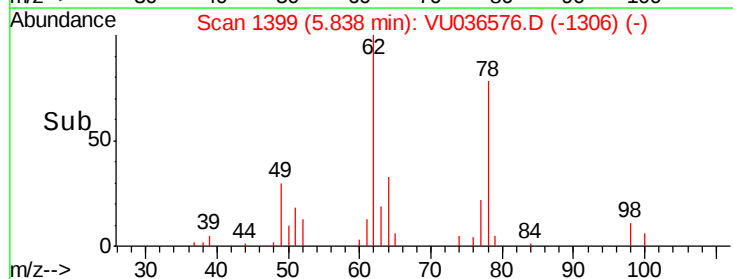
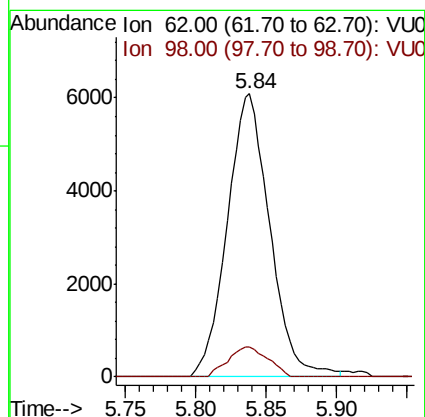
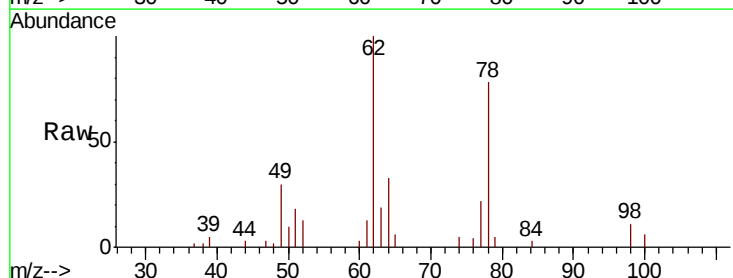
Instrument :  
MSVOA\_U  
ClientSampleId :

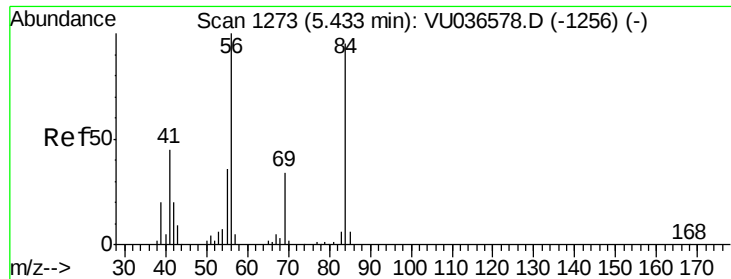
Tot Ion: 83 Resp: 17437  
Ion Ratio Lower Upper  
83 100  
85 64.2 46.3 85.9



#27  
1,2-Dichloroethane  
Concen: 4.400 ug/L  
RT: 5.84 min Scan# 1399  
Delta R.T. -0.00 min  
Lab File: VU036576.D  
Acq: 28 Jan 2020 16:07

Tgt Ion: 62 Resp: 12834  
Ion Ratio Lower Upper  
62 100  
98 10.7 8.4 12.6

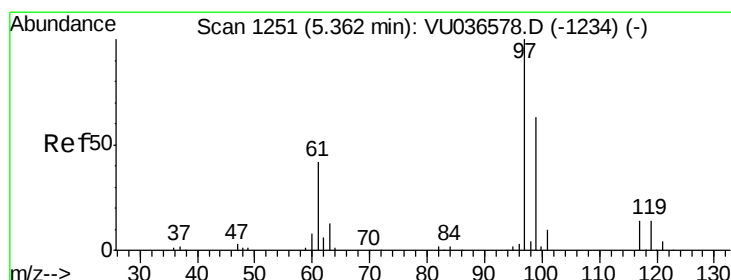
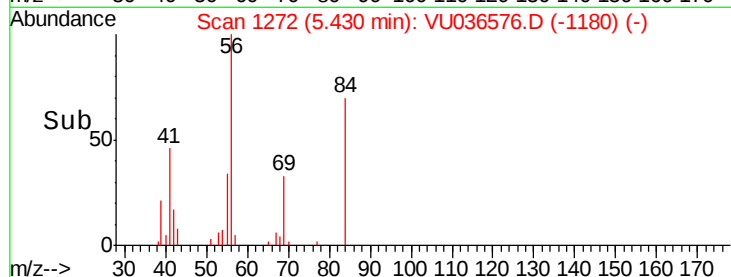
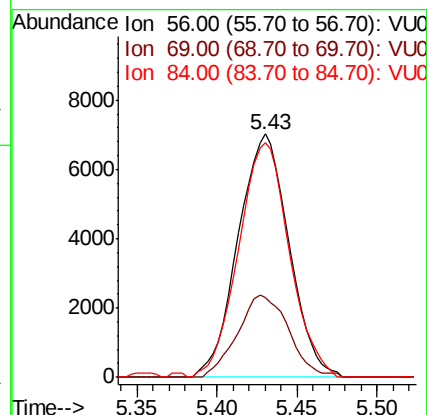
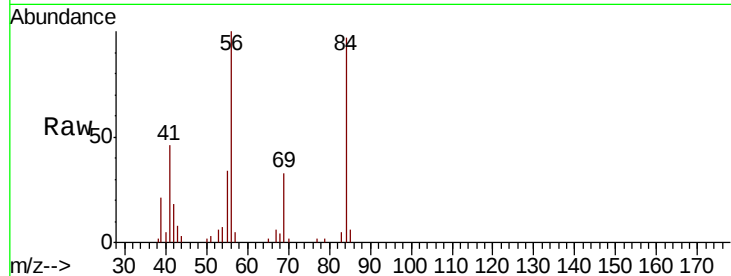




#29  
Cyclohexane  
Concen: 4.826 ug/L  
RT: 5.43 min Scan# 1272  
Delta R.T. -0.00 min  
Lab File: VU036576.D  
Acq: 28 Jan 2020 16:07

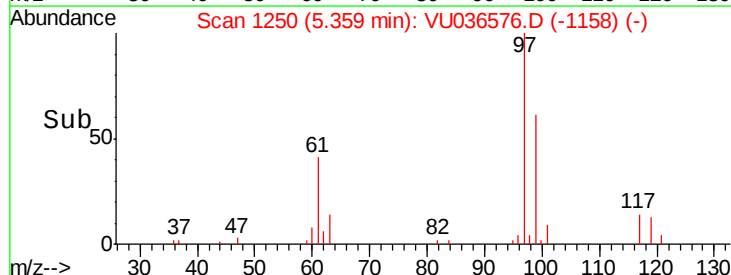
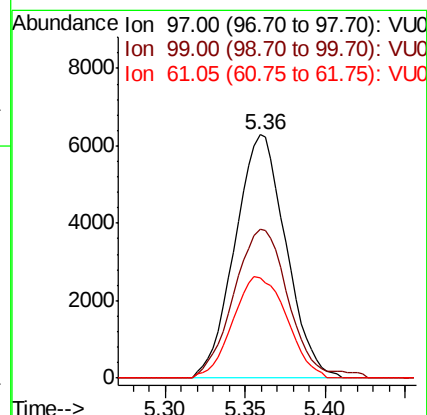
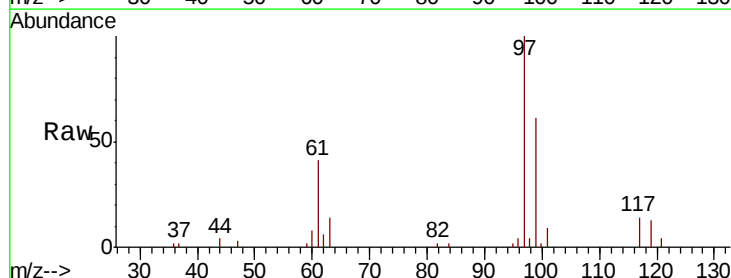
Instrument :  
MSVOA\_U  
ClientSampleId :

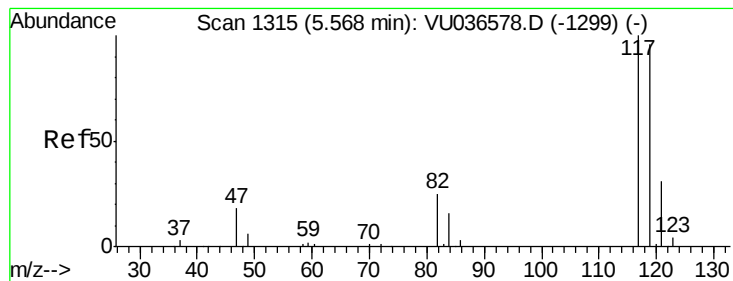
Tot Ion: 56 Resp: 15298  
Ion Ratio Lower Upper  
56 100  
69 33.7 26.4 39.6  
84 96.1 76.6 114.8



#30  
1,1,1-Trichloroethane  
Concen: 4.423 ug/L  
RT: 5.36 min Scan# 1250  
Delta R.T. -0.00 min  
Lab File: VU036576.D  
Acq: 28 Jan 2020 16:07

Tgt Ion: 97 Resp: 13701  
Ion Ratio Lower Upper  
97 100  
99 64.7 51.0 76.4  
61 44.0 34.1 51.1





#31

Carbon tetrachloride

Concen: 4.395 ug/L

RT: 5.56 min Scan# 1314

Delta R.T. -0.00 min

Lab File: VU036576.D

Acq: 28 Jan 2020 16:07

Instrument :

MSVOA\_U

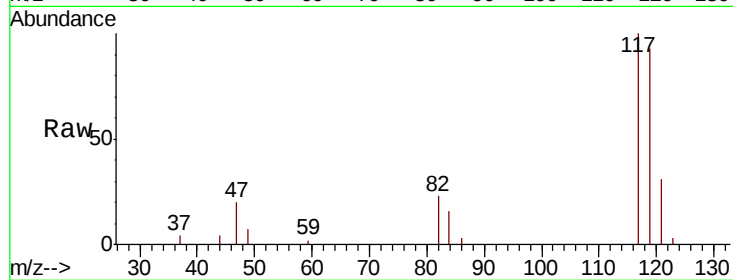
ClientSampleId :

Tot Ion:117 Resp: 11630

Ion Ratio Lower Upper

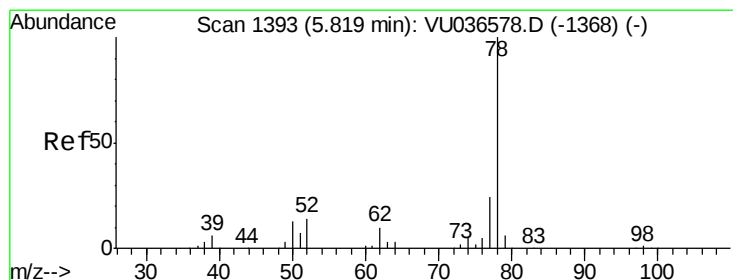
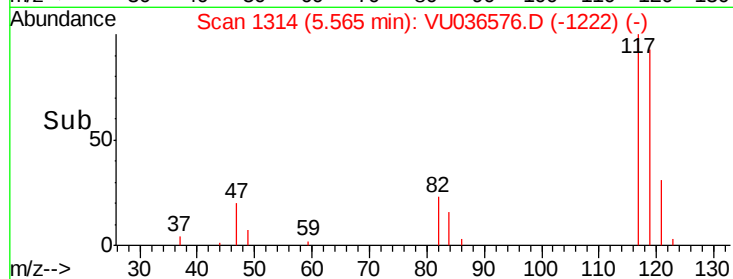
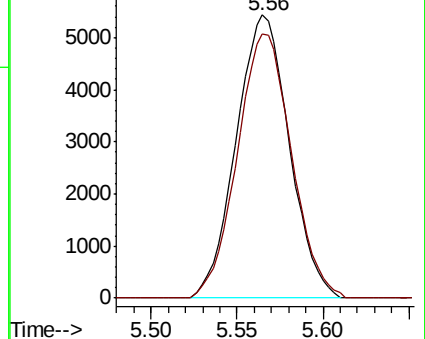
117 100

119 95.2 76.2 114.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 5.094 ug/L

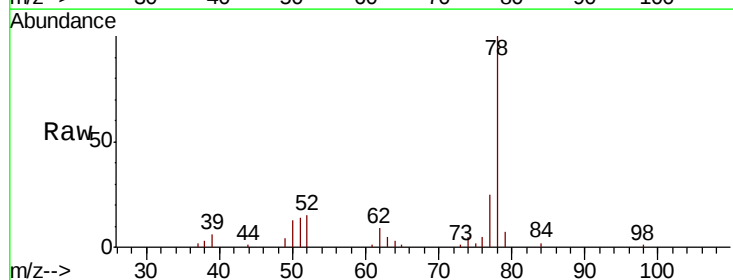
RT: 5.82 min Scan# 1392

Delta R.T. -0.00 min

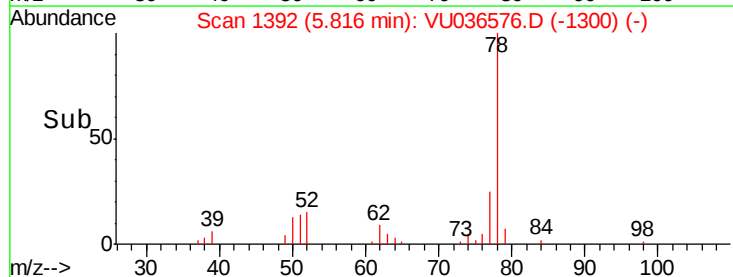
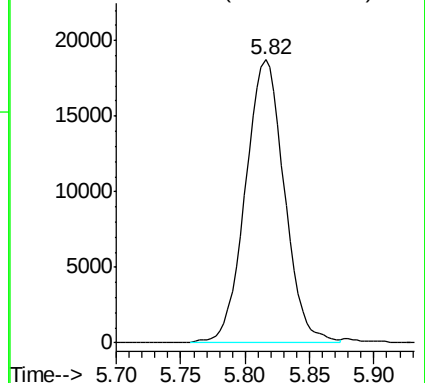
Lab File: VU036576.D

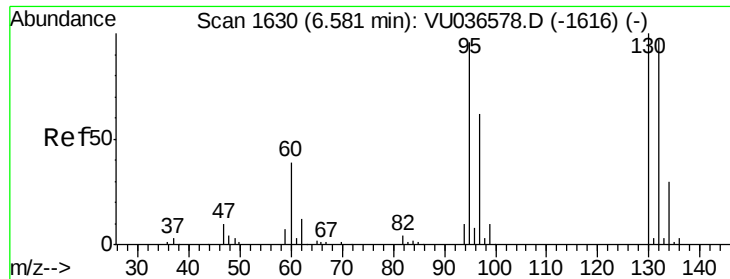
Acq: 28 Jan 2020 16:07

Tgt Ion: 78 Resp: 39474



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 4.962 ug/L

RT: 6.58 min Scan# 1629

Delta R.T. -0.00 min

Lab File: VU036576.D

Acq: 28 Jan 2020 16:07

Instrument :

MSVOA\_U

ClientSampleId :

Tot Ion: 95 Resp: 10244

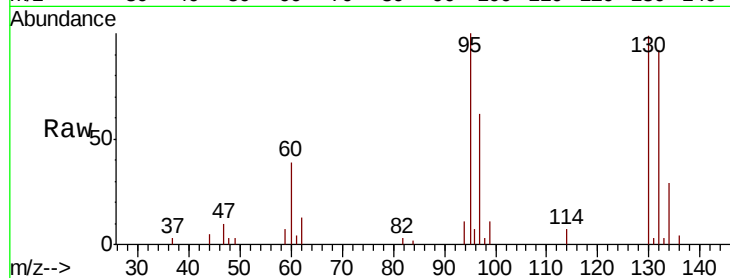
Ion Ratio Lower Upper

95 100

97 62.1 45.5 84.5

132 92.3 70.9 131.7

130 98.9 72.9 135.3

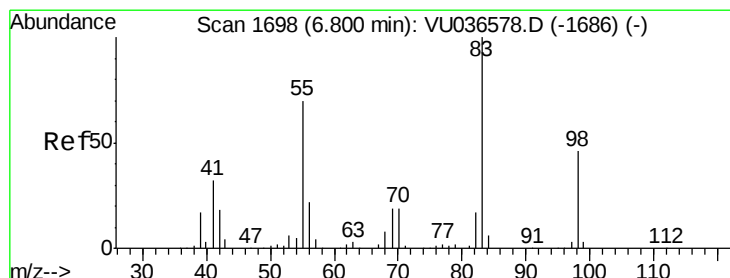
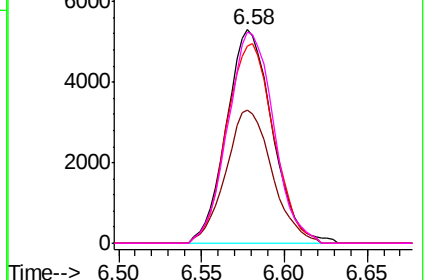
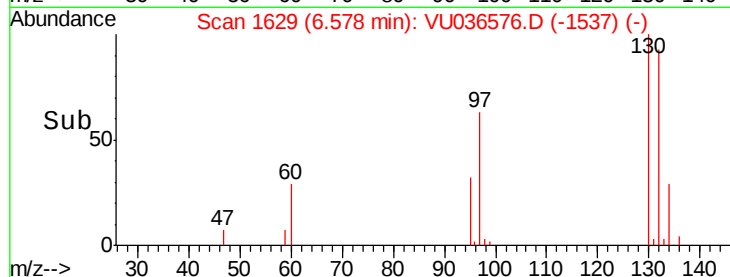


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 5.240 ug/L

RT: 6.80 min Scan# 1697

Delta R.T. -0.00 min

Lab File: VU036576.D

Acq: 28 Jan 2020 16:07

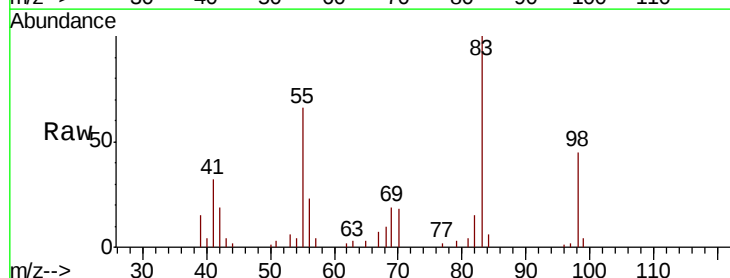
Tgt Ion: 83 Resp: 16941

Ion Ratio Lower Upper

83 100

55 69.3 56.1 84.1

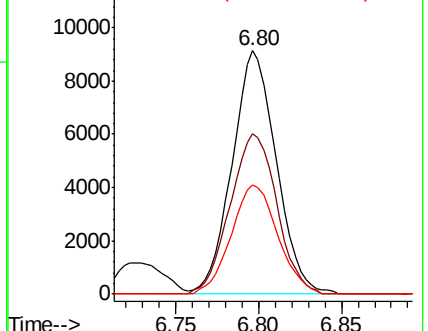
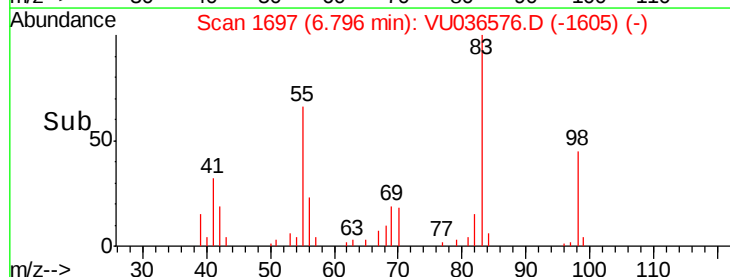
98 47.2 37.5 56.3

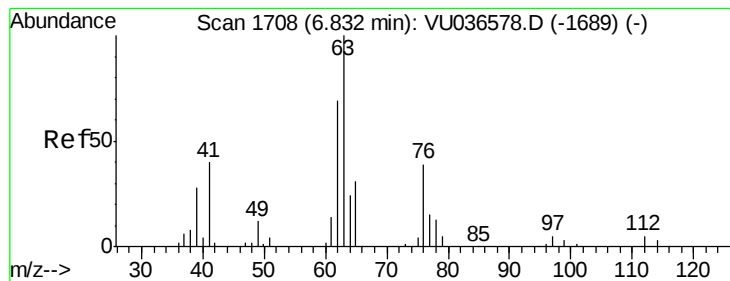


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#37

1,2-Dichloropropane

Concen: 4.864 ug/L

RT: 6.83 min Scan# 1707

Delta R.T. -0.00 min

Lab File: VU036576.D

Acq: 28 Jan 2020 16:07

Instrument :

MSVOA\_U

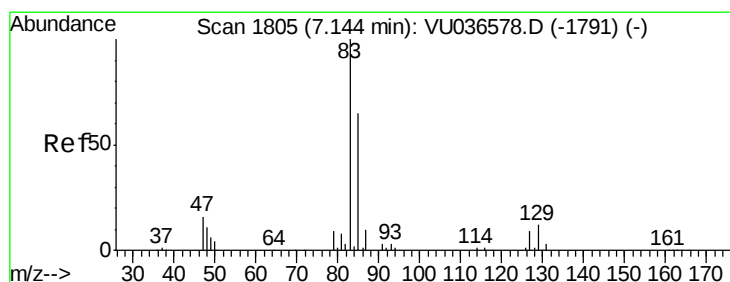
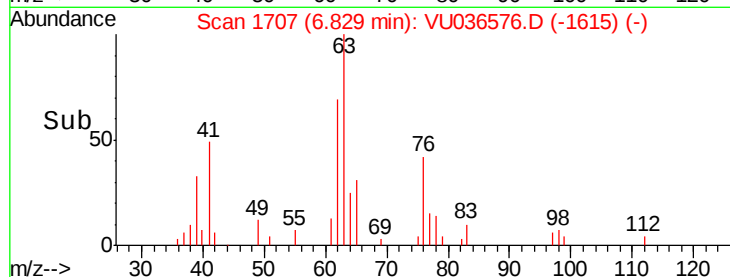
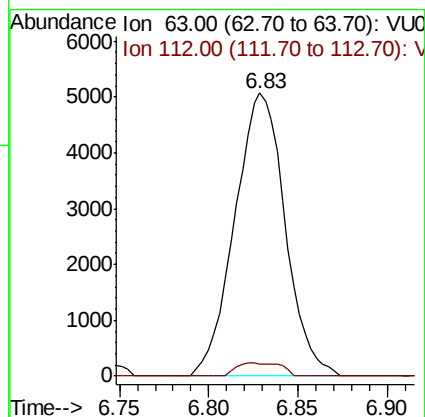
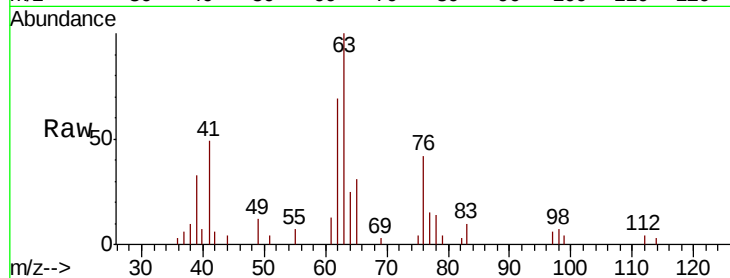
ClientSampled :

Tot Ion: 63 Resp: 9978

Ion Ratio Lower Upper

63 100

112 2.3 3.4 5.2#



#38

Bromodichloromethane

Concen: 4.281 ug/L

RT: 7.14 min Scan# 1804

Delta R.T. -0.00 min

Lab File: VU036576.D

Acq: 28 Jan 2020 16:07

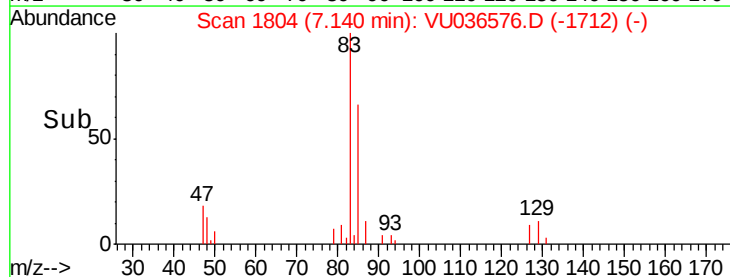
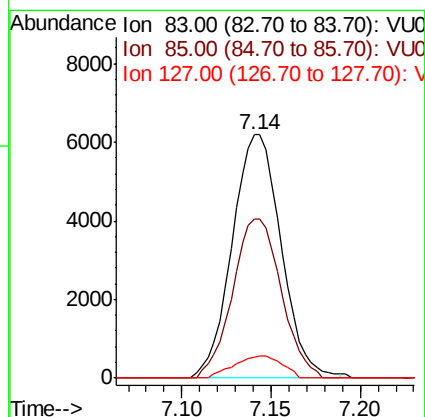
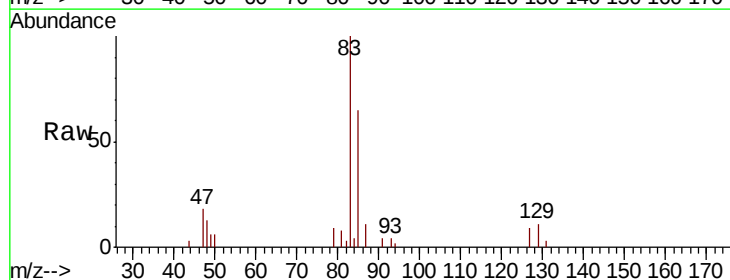
Tgt Ion: 83 Resp: 11842

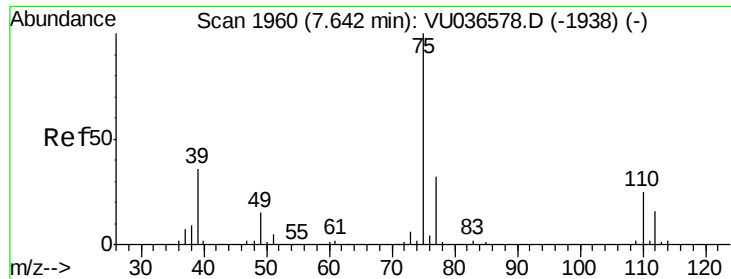
Ion Ratio Lower Upper

83 100

85 65.2 45.4 84.4

127 8.5 7.2 10.8

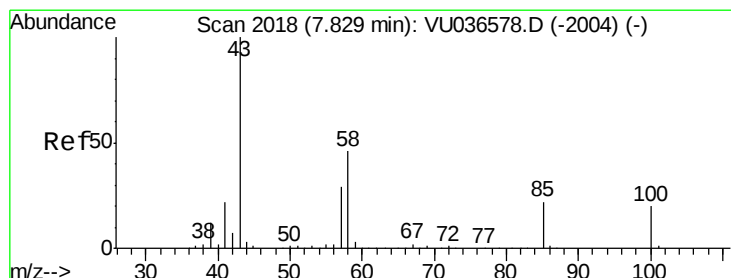
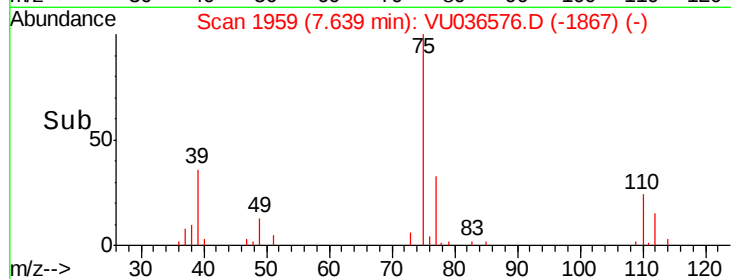
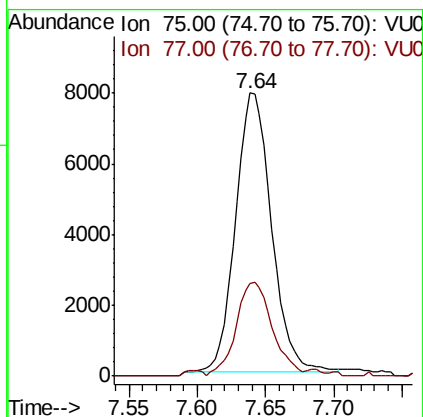
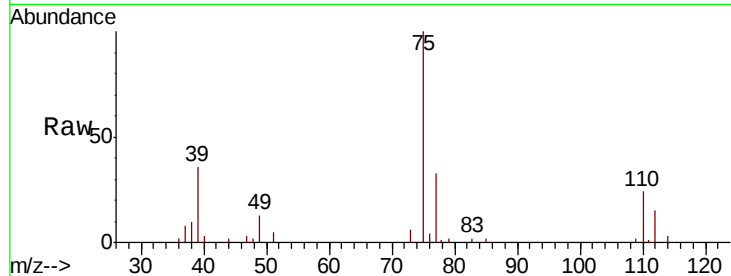




#39  
 cis-1,3-Dichloropropene  
 Concen: 4.368 ug/L  
 RT: 7.64 min Scan# 1959  
 Delta R.T. -0.00 min  
 Lab File: VU036576.D  
 Acq: 28 Jan 2020 16:07

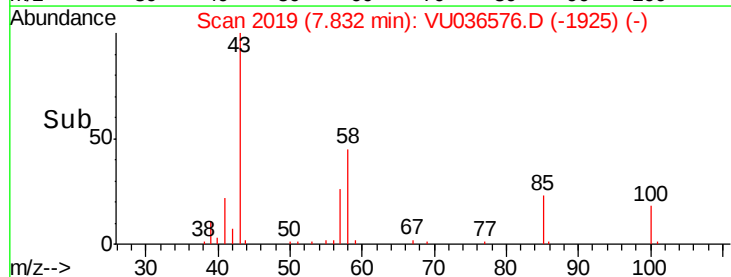
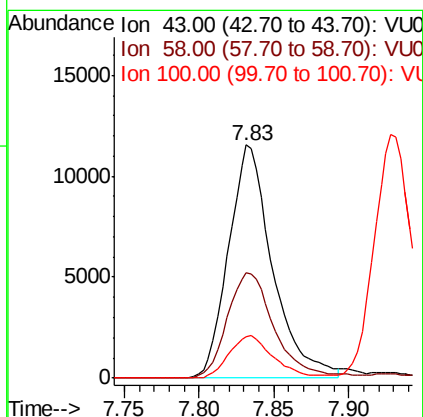
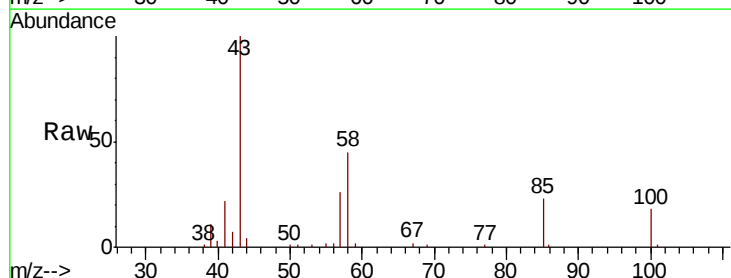
Instrument :  
 MSVOA\_U  
 ClientSampleId :

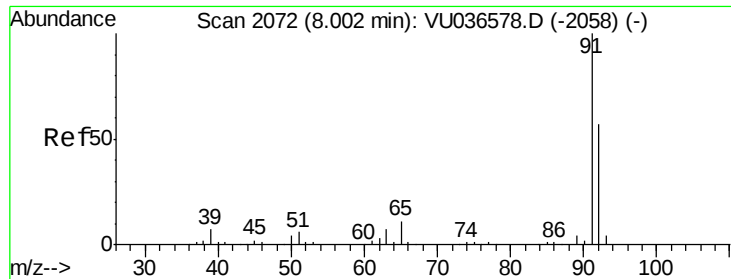
Tot Ion: 75 Resp: 14416  
 Ion Ratio Lower Upper  
 75 100  
 77 32.7 22.5 41.9



#40  
 4-Methyl-2-pentanone  
 Concen: 7.468 ug/L  
 RT: 7.83 min Scan# 2019  
 Delta R.T. 0.00 min  
 Lab File: VU036576.D  
 Acq: 28 Jan 2020 16:07

Tgt Ion: 43 Resp: 23693  
 Ion Ratio Lower Upper  
 43 100  
 58 48.4 37.0 55.4  
 100 18.0 15.8 23.6





#42

Toluene

Concen: 4.985 ug/L

RT: 8.00 min Scan# 2072

Delta R.T. -0.00 min

Lab File: VU036576.D

Acq: 28 Jan 2020 16:07

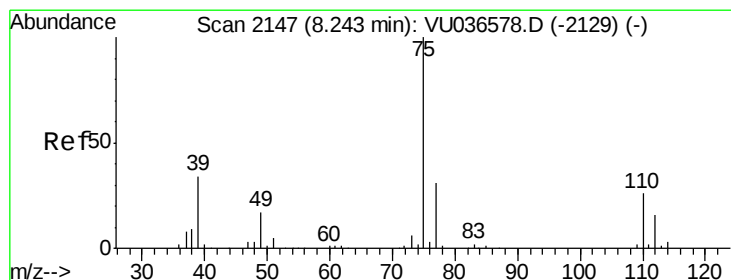
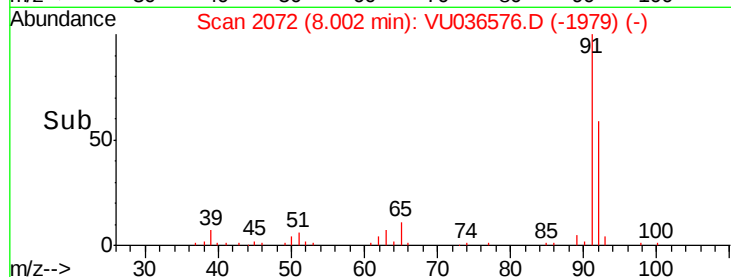
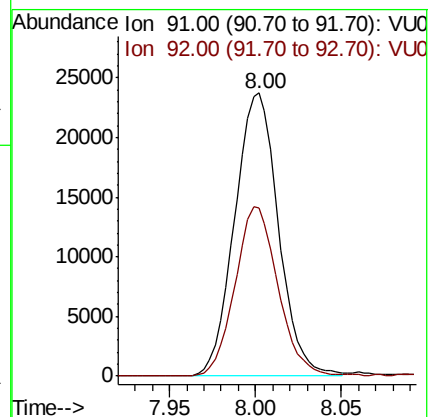
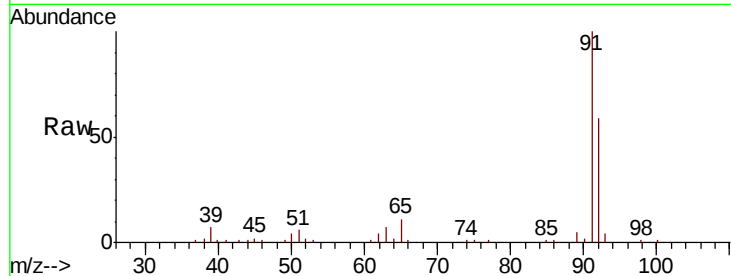
Instrument :  
MSVOA\_U  
ClientSampled :

Tot Ion: 91 Resp: 41993

Ion Ratio Lower Upper

91 100

92 59.4 39.9 74.1



#44

trans-1,3-Dichloropropene

Concen: 4.110 ug/L

RT: 8.24 min Scan# 2146

Delta R.T. -0.00 min

Lab File: VU036576.D

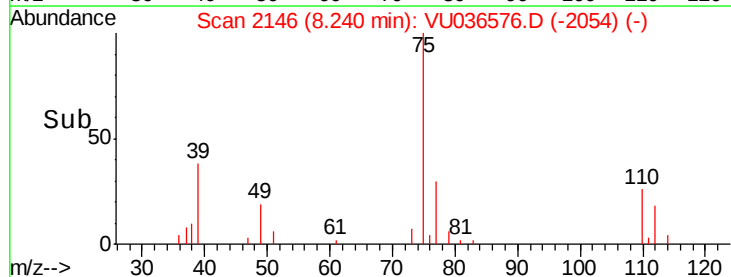
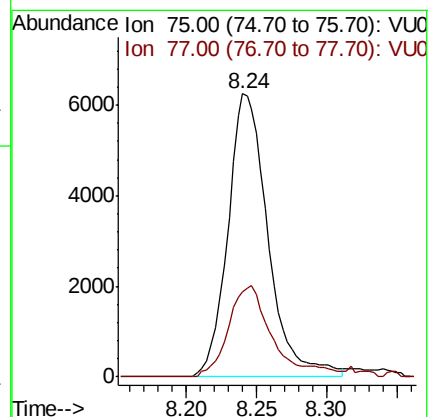
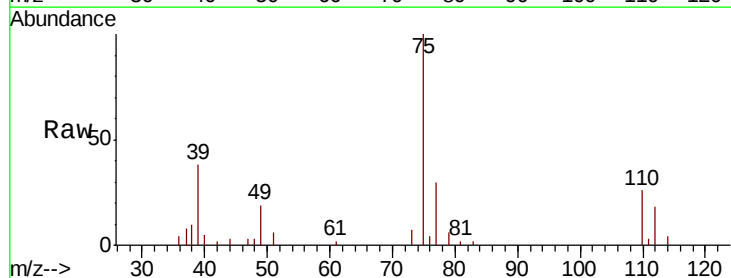
Acq: 28 Jan 2020 16:07

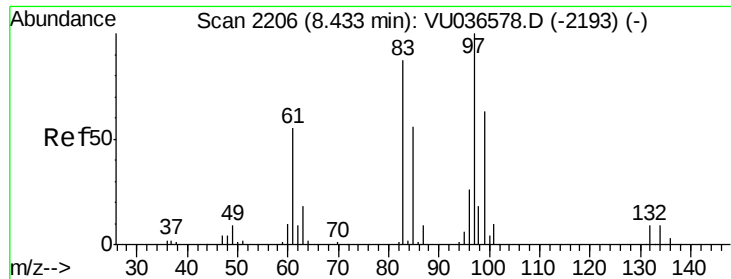
Tgt Ion: 75 Resp: 12417

Ion Ratio Lower Upper

75 100

77 30.1 21.8 40.6

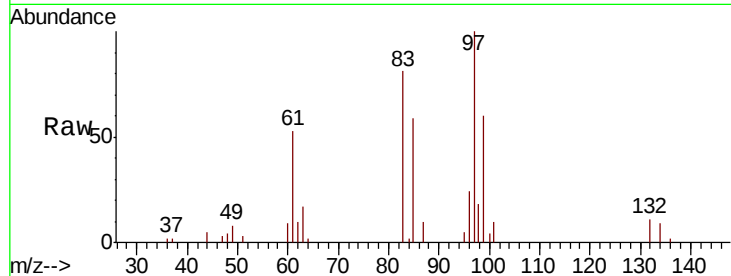




#45  
1,1,2-Trichloroethane  
Concen: 5.061 ug/L  
RT: 8.43 min Scan# 2205  
Delta R.T. -0.00 min  
Lab File: VU036576.D  
Acq: 28 Jan 2020 16:07

Instrument :  
MSVOA\_U  
ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 97    | Resp: | 9997  |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 60.4  | 44.1  | 81.9  |
| 83       | 80.8  | 61.2  | 113.6 |
| 85       | 58.9  | 39.2  | 72.8  |



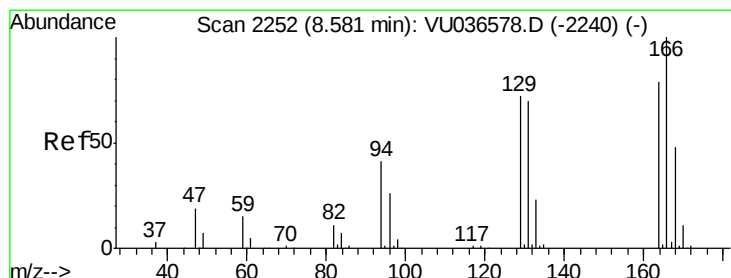
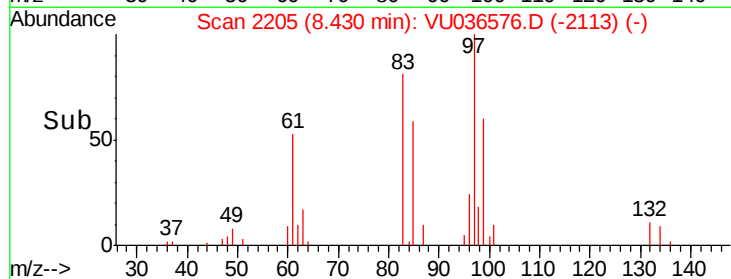
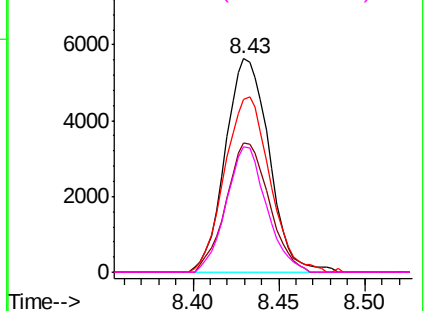
Abundance

Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

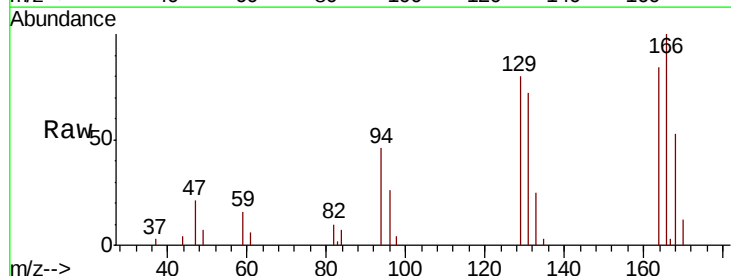
Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46  
Tetrachloroethene  
Concen: 5.737 ug/L  
RT: 8.58 min Scan# 2252  
Delta R.T. -0.00 min  
Lab File: VU036576.D  
Acq: 28 Jan 2020 16:07

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 8294  |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 94.4  | 64.2  | 119.2 |
| 131      | 85.1  | 61.8  | 114.8 |
| 166      | 118.5 | 88.8  | 165.0 |



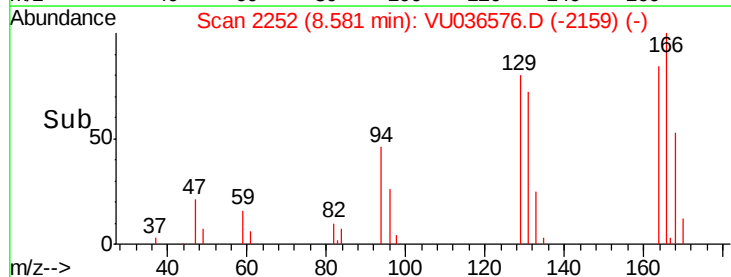
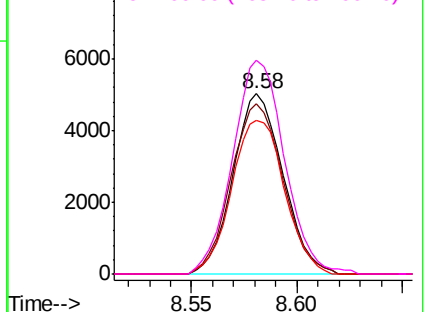
Abundance

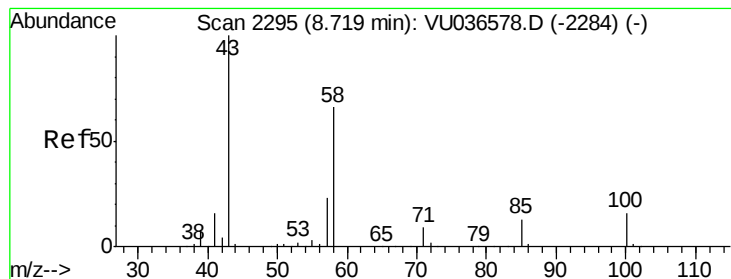
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V





#48

2-Hexanone

Concen: 6.644 ug/L

RT: 8.73 min Scan# 2298

Delta R.T. 0.01 min

Lab File: VU036576.D

Acq: 28 Jan 2020 16:07

Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 43 Resp: 16665

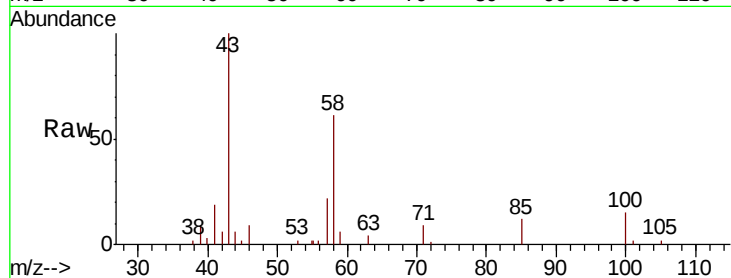
Ion Ratio Lower Upper

43 100

58 67.4 49.4 74.0

57 23.7 17.1 25.7

100 14.6 11.9 17.9

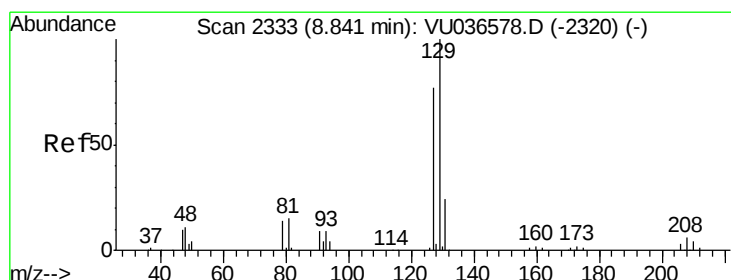
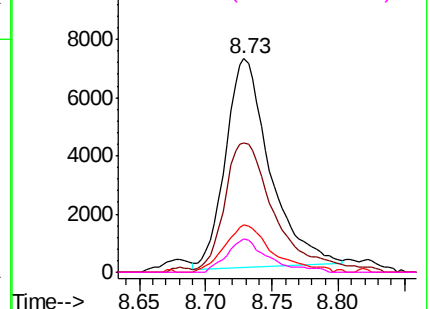
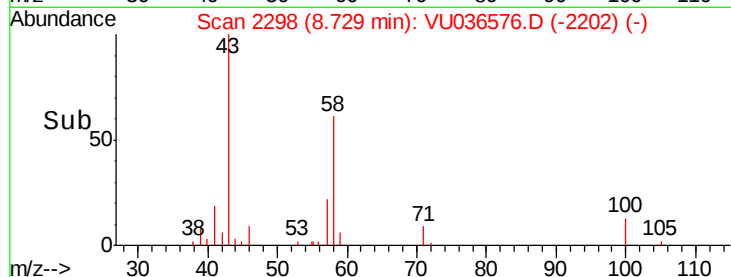


Abundance Ion 43.00 (42.70 to 43.70): VU036576.D (-2298) (-)

Ion 58.00 (57.70 to 58.70): VU036576.D (-2298) (-)

Ion 57.00 (56.70 to 57.70): VU036576.D (-2298) (-)

Ion 100.00 (99.70 to 100.70): VU036576.D (-2298) (-)



#49

Dibromochloromethane

Concen: 4.489 ug/L

RT: 8.84 min Scan# 2332

Delta R.T. -0.00 min

Lab File: VU036576.D

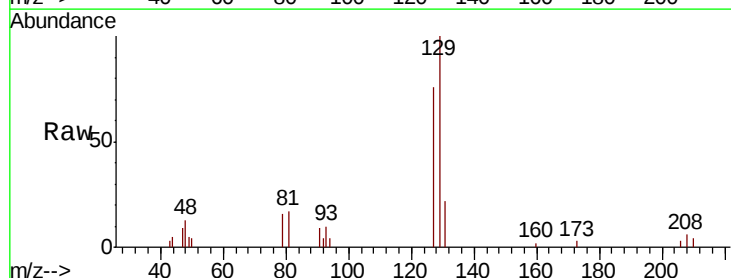
Acq: 28 Jan 2020 16:07

Tgt Ion: 129 Resp: 9745

Ion Ratio Lower Upper

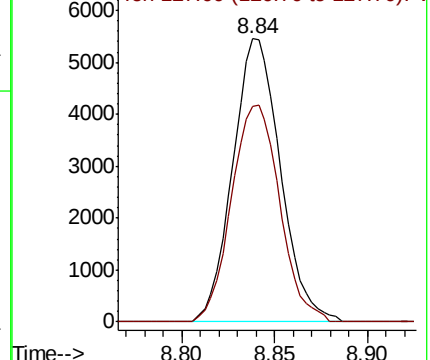
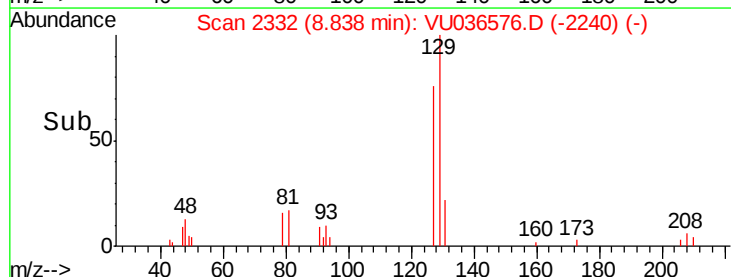
129 100

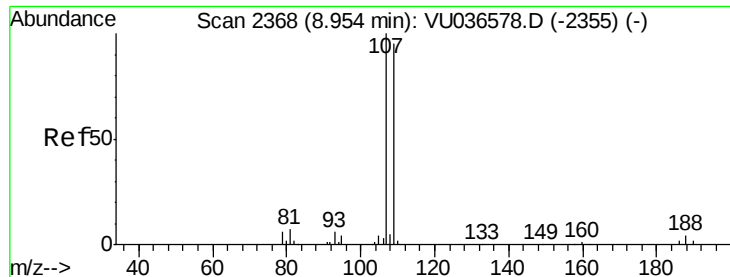
127 76.3 54.0 100.2



Abundance Ion 129.00 (128.70 to 129.70): VU036576.D (-2332) (-)

Ion 127.00 (126.70 to 127.70): VU036576.D (-2332) (-)

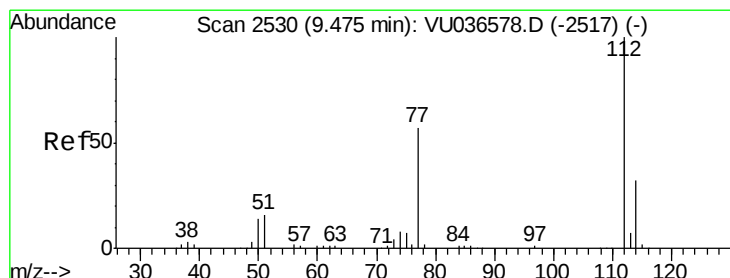
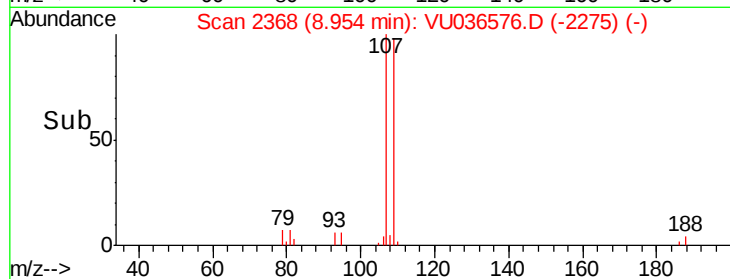
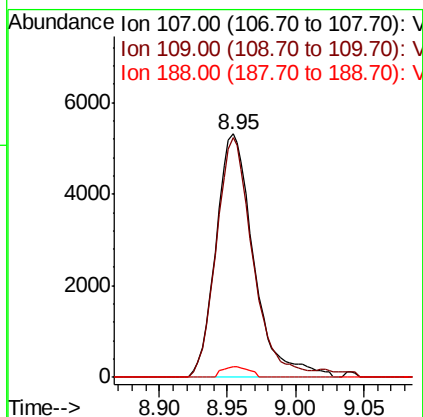
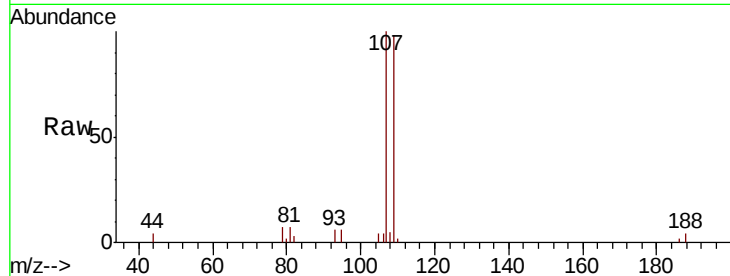




#50  
1,2-Dibromoethane  
Concen: 4.606 ug/L  
RT: 8.95 min Scan# 2368  
Delta R.T. -0.00 min  
Lab File: VU036576.D  
Acq: 28 Jan 2020 16:07

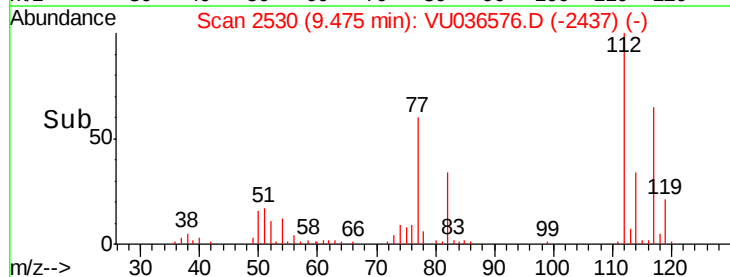
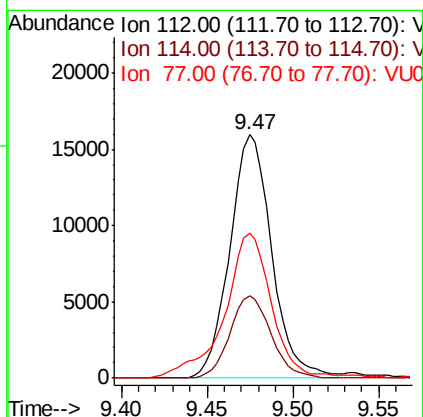
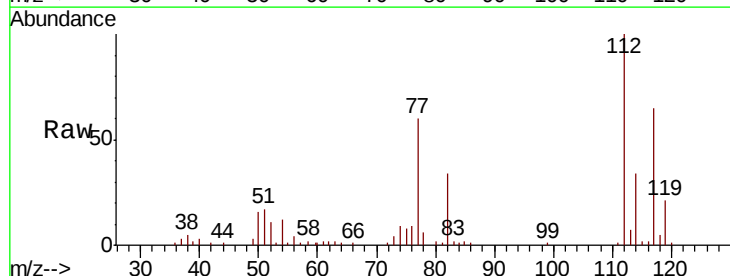
Instrument :  
MSVOA\_U  
ClientSampleId :

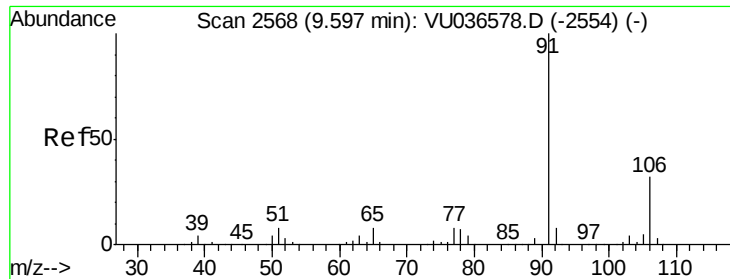
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 109     | 98.2  | 66.3  | 123.1 |
| 188     | 4.5   | 3.1   | 4.7   |



#51  
Chlorobenzene  
Concen: 5.087 ug/L  
RT: 9.47 min Scan# 2530  
Delta R.T. -0.00 min  
Lab File: VU036576.D  
Acq: 28 Jan 2020 16:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 114     | 33.7  | 22.3  | 41.5  |
| 77      | 59.8  | 45.7  | 68.5  |

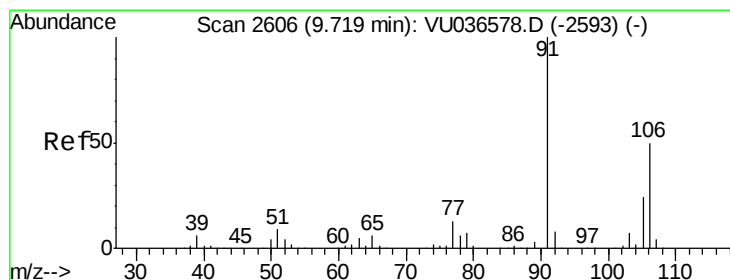
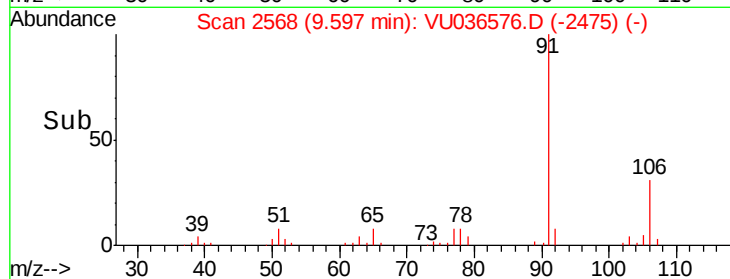
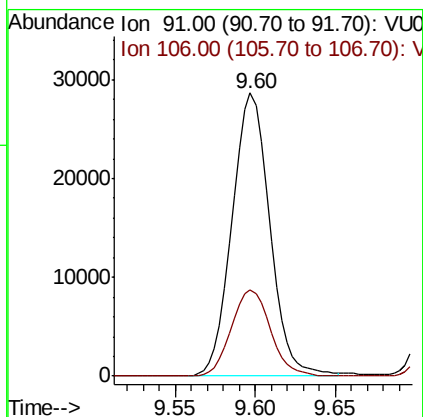
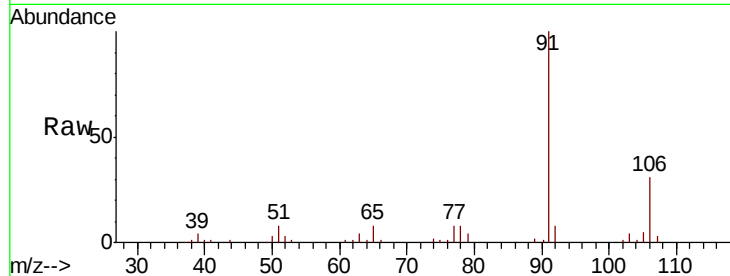




#52  
Ethylbenzene  
Concen: 4.930 ug/L  
RT: 9.60 min Scan# 2568  
Delta R.T. -0.00 min  
Lab File: VU036576.D  
Acq: 28 Jan 2020 16:07

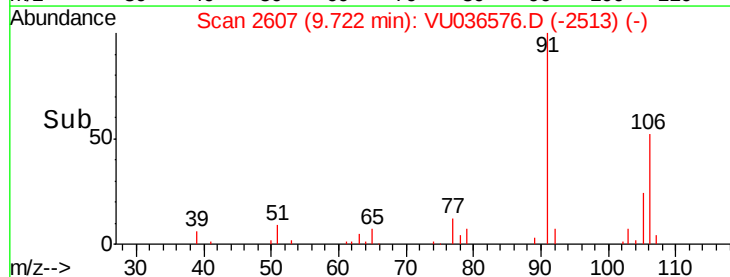
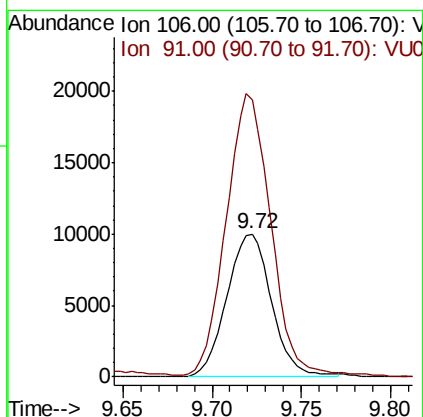
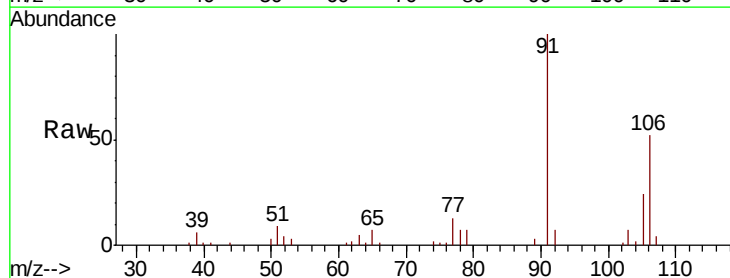
Instrument :  
MSVOA\_U  
ClientSampled :

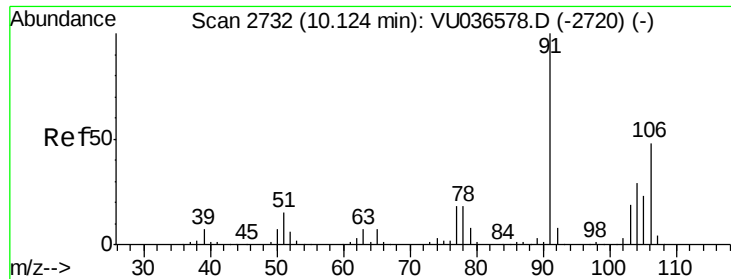
Tot Ion: 91 Resp: 46118  
Ion Ratio Lower Upper  
91 100  
106 30.6 22.6 42.0



#53  
m,p-Xylene  
Concen: 4.920 ug/L  
RT: 9.72 min Scan# 2607  
Delta R.T. 0.00 min  
Lab File: VU036576.D  
Acq: 28 Jan 2020 16:07

Tgt Ion: 106 Resp: 17370  
Ion Ratio Lower Upper  
106 100  
91 193.9 139.4 259.0





#54

o-xylene

Concen: 5.021 ug/L

RT: 10.13 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VU036576.D

Acq: 28 Jan 2020 16:07

Instrument :

MSVOA\_U

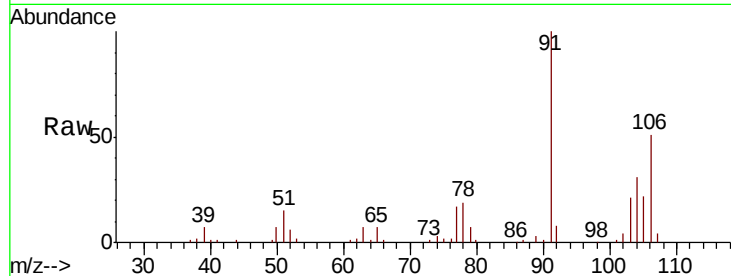
ClientSampled :

Tot Ion:106 Resp: 17748

Ion Ratio Lower Upper

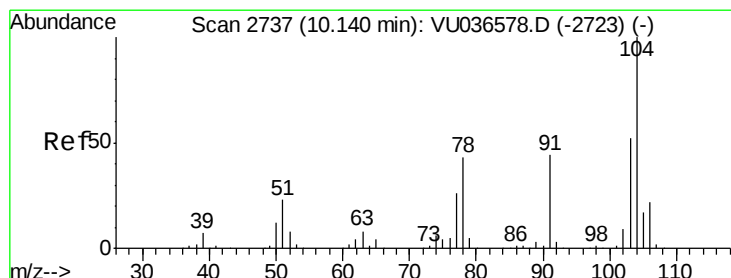
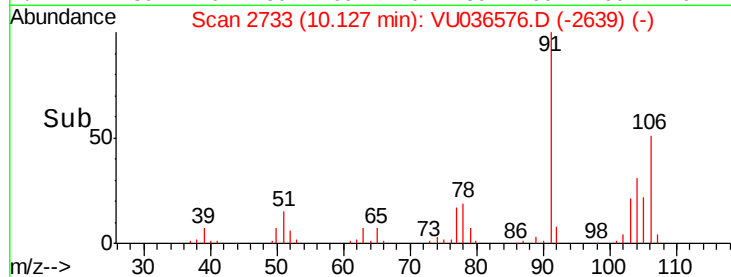
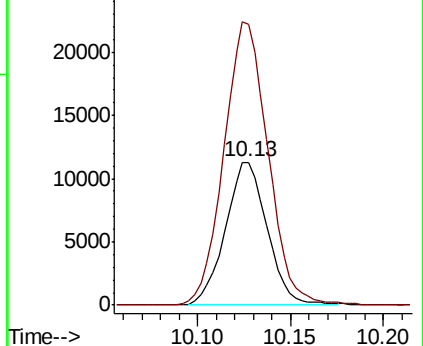
106 100

91 197.4 145.9 271.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 4.662 ug/L

RT: 10.14 min Scan# 2737

Delta R.T. -0.00 min

Lab File: VU036576.D

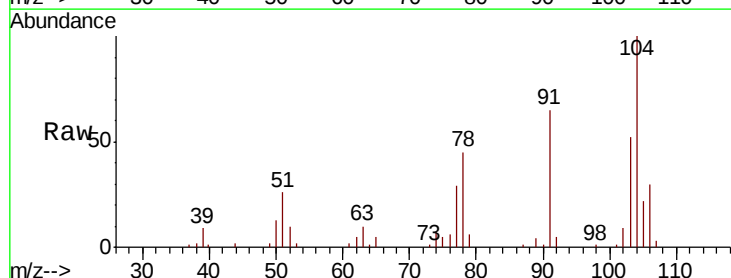
Acq: 28 Jan 2020 16:07

Tgt Ion:104 Resp: 26665

Ion Ratio Lower Upper

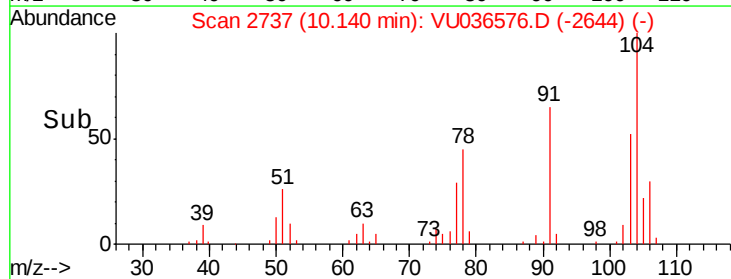
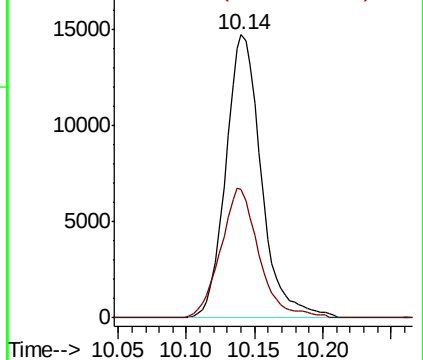
104 100

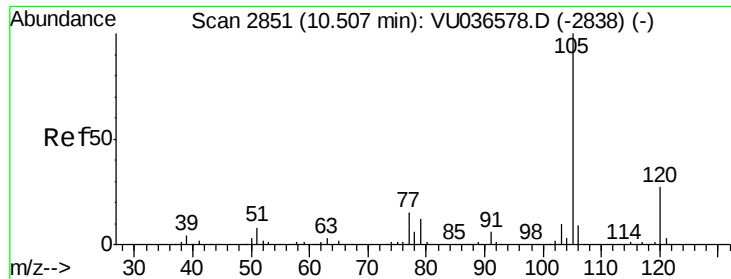
78 45.2 30.1 55.9



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 4.953 ug/L

RT: 10.51 min Scan# 2852

Delta R.T. 0.00 min

Lab File: VU036576.D

Acq: 28 Jan 2020 16:07

Instrument :

MSVOA\_U

ClientSampleId :

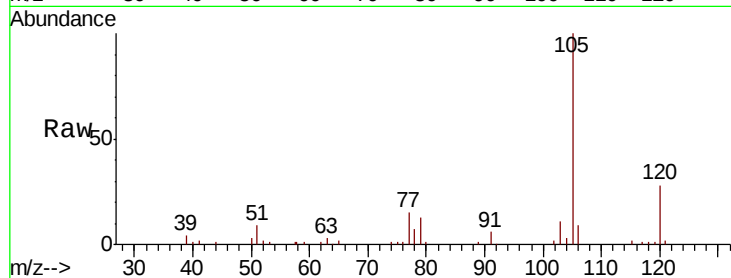
Tot Ion:105 Resp: 44616

Ion Ratio Lower Upper

105 100

120 27.5 21.6 32.4

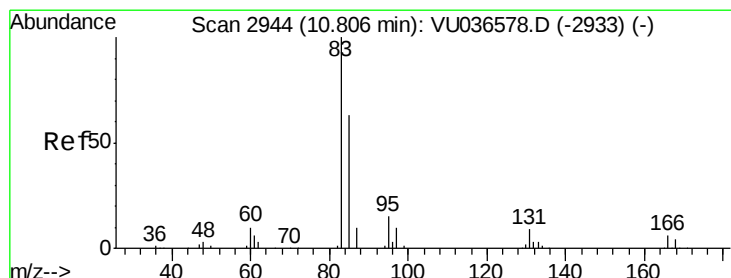
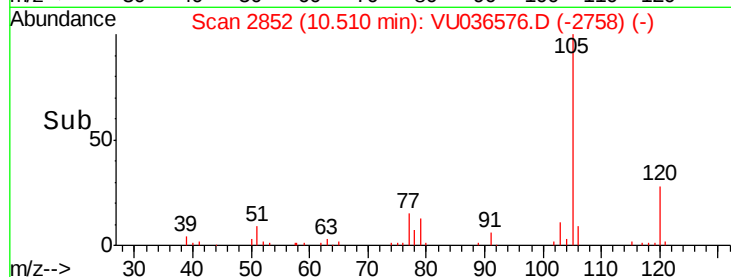
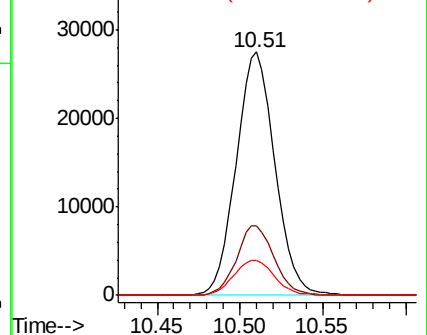
77 15.2 11.8 17.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 4.693 ug/L

RT: 10.81 min Scan# 2945

Delta R.T. 0.00 min

Lab File: VU036576.D

Acq: 28 Jan 2020 16:07

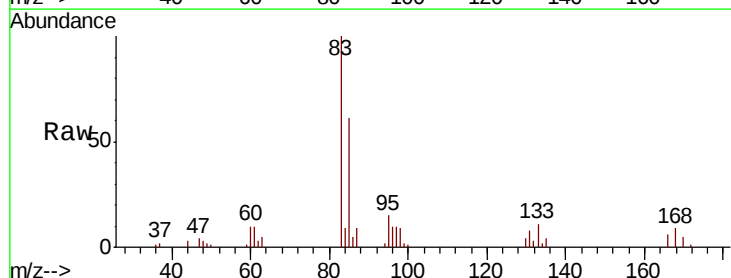
Tgt Ion: 83 Resp: 16033

Ion Ratio Lower Upper

83 100

85 61.0 44.5 82.7

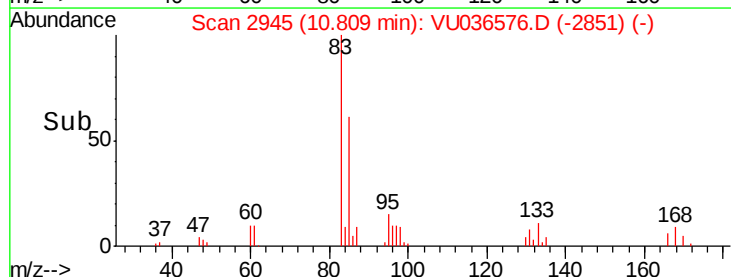
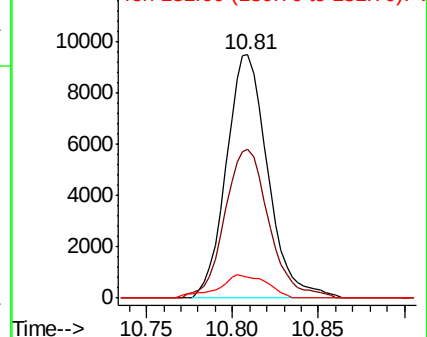
131 8.5 7.8 11.8

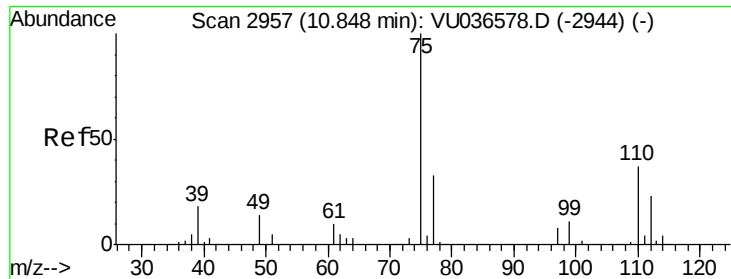


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 4.605 ug/L

RT: 10.85 min Scan# 2958

Delta R.T. 0.00 min

Lab File: VU036576.D

Acq: 28 Jan 2020 16:07

Instrument :

MSVOA\_U

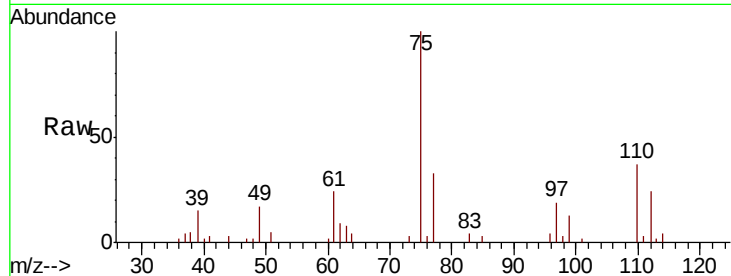
ClientSampleId :

Tot Ion: 75 Resp: 12928

Ion Ratio Lower Upper

75 100

77 33.0 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VU036578.D (-2944) (-)

Ion 77.00 (76.70 to 77.70): VU036578.D (-2944) (-)

10.85

8000

6000

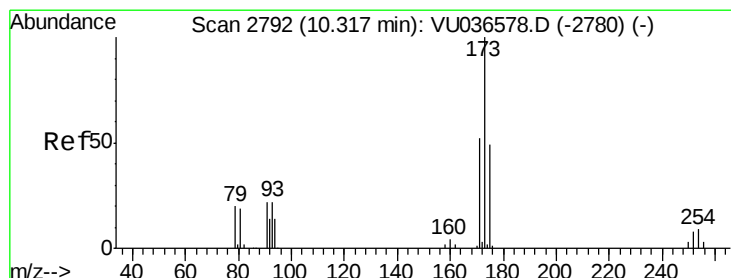
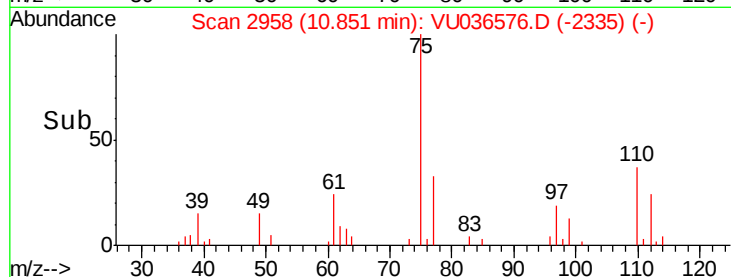
4000

2000

0

10.80 10.85 10.90

Time-->



#61

Bromoform

Concen: 4.873 ug/L

RT: 10.32 min Scan# 2792

Delta R.T. -0.00 min

Lab File: VU036576.D

Acq: 28 Jan 2020 16:07

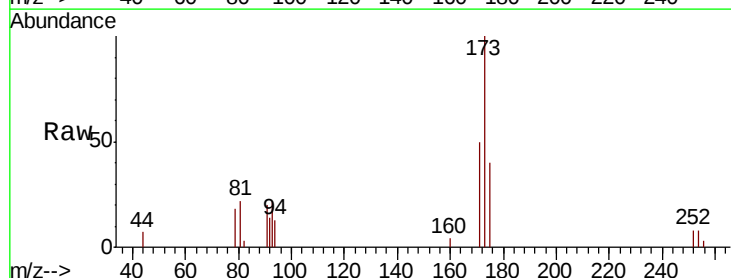
Tgt Ion: 173 Resp: 7247

Ion Ratio Lower Upper

173 100

175 43.2 39.3 58.9

254 7.8 6.6 10.0



Abundance Ion 173.00 (172.70 to 173.70): VU036578.D (-2780) (-)

Ion 175.00 (174.70 to 175.70): VU036578.D (-2780) (-)

Ion 254.00 (253.70 to 254.70): VU036578.D (-2780) (-)

10.32

6000

5000

4000

3000

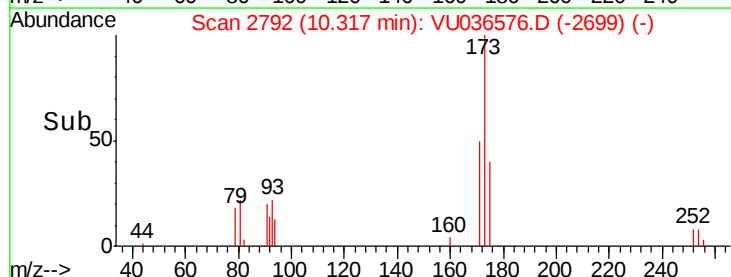
2000

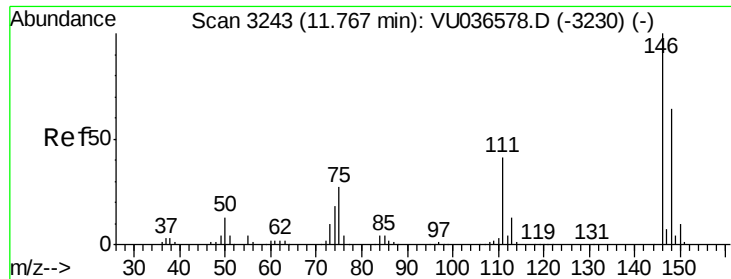
1000

0

10.25 10.30 10.35

Time-->





#62

1,3-Dichlorobenzene

Concen: 5.169 ug/L

RT: 11.77 min Scan# 3244

Delta R.T. 0.00 min

Lab File: VU036576.D

Acq: 28 Jan 2020 16:07

Instrument :

MSVOA\_U

ClientSampleId :

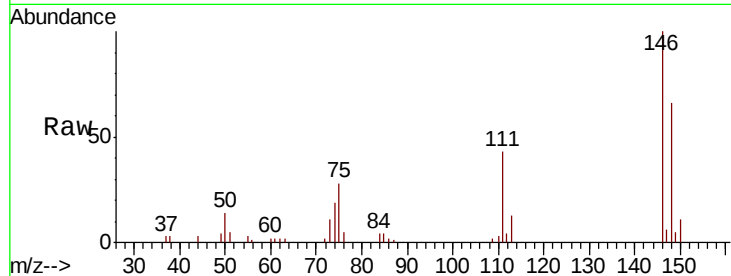
Tot Ion:146 Resp: 18060

Ion Ratio Lower Upper

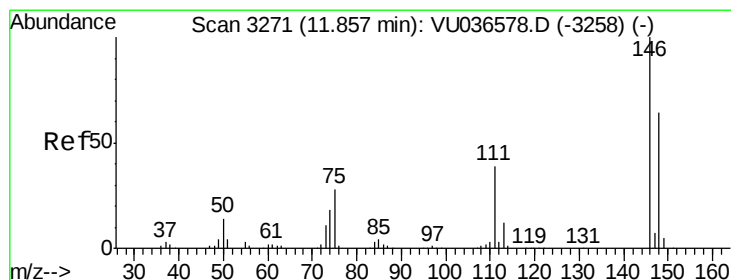
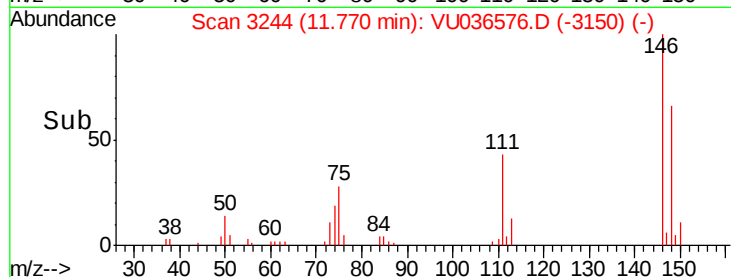
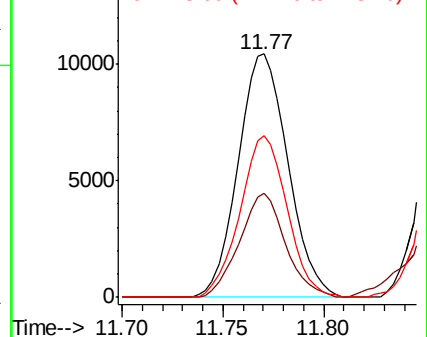
146 100

111 42.9 28.6 53.0

148 66.4 44.7 82.9



Abundance Ion 146.00 (145.70 to 146.70): V  
Ion 111.00 (110.70 to 111.70): V  
Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 5.012 ug/L

RT: 11.86 min Scan# 3272

Delta R.T. 0.00 min

Lab File: VU036576.D

Acq: 28 Jan 2020 16:07

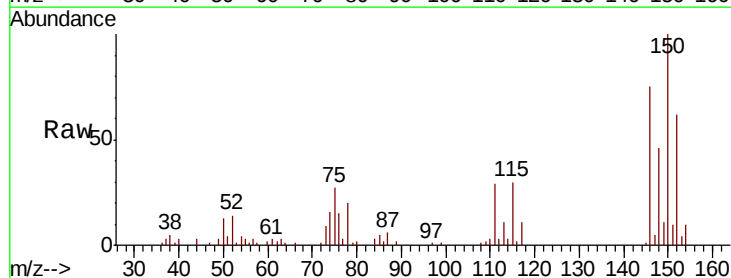
Tgt Ion:146 Resp: 17476

Ion Ratio Lower Upper

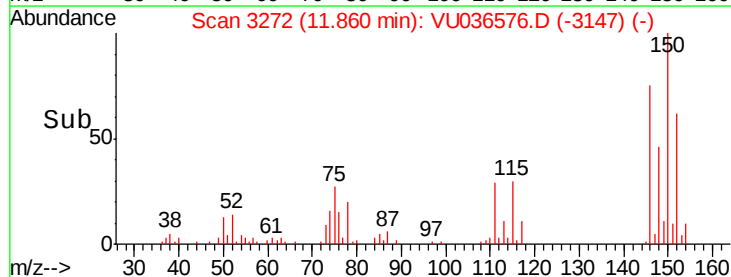
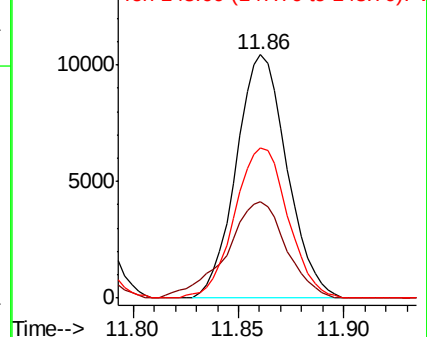
146 100

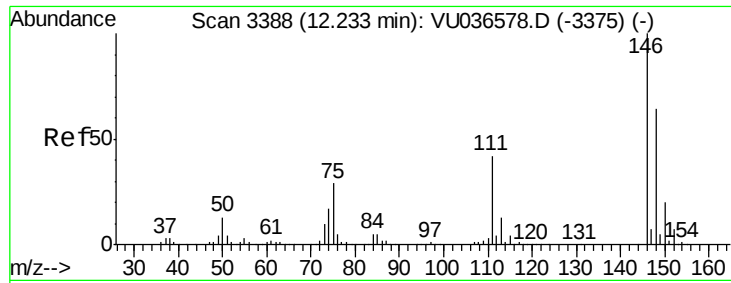
111 39.4 27.2 50.4

148 61.8 44.8 83.2



Abundance Ion 146.00 (145.70 to 146.70): V  
Ion 111.00 (110.70 to 111.70): V  
Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 5.362 ug/L

RT: 12.24 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU036576.D

Acq: 28 Jan 2020 16:07

Instrument :

MSVOA\_U

ClientSampled :

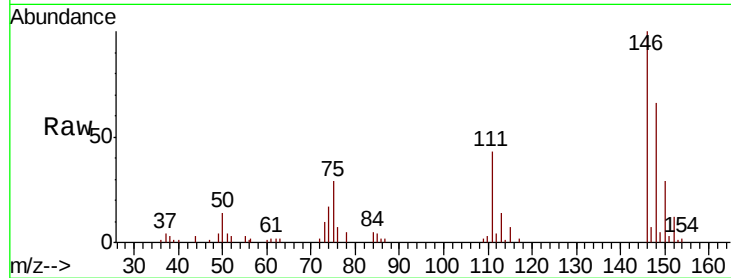
Tot Ion:146 Resp: 18518

Ion Ratio Lower Upper

146 100

111 43.0 33.4 50.2

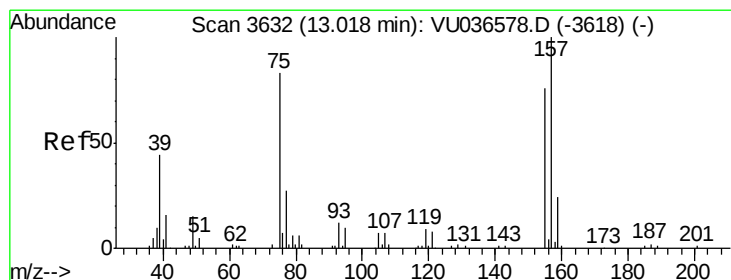
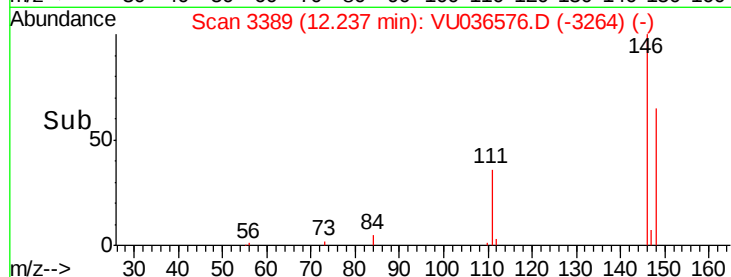
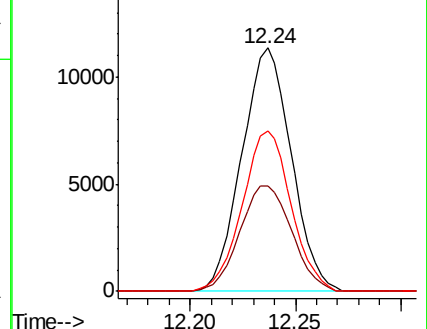
148 65.9 51.3 76.9



Abundance Ion 146.00 (145.70 to 146.70): 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: 3.540 ug/L

RT: 13.02 min Scan# 3632

Delta R.T. -0.00 min

Lab File: VU036576.D

Acq: 28 Jan 2020 16:07

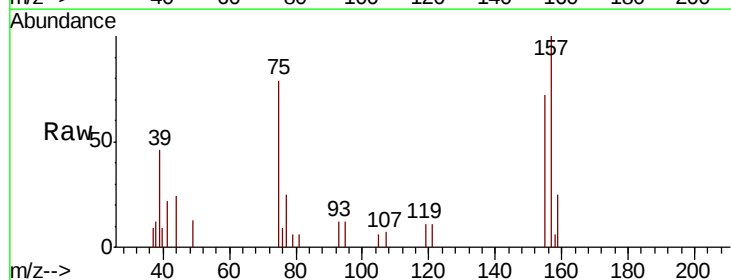
Tgt Ion: 75 Resp: 2567

Ion Ratio Lower Upper

75 100

155 91.8 73.4 110.2

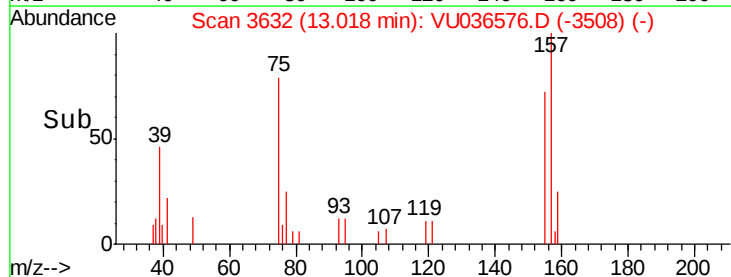
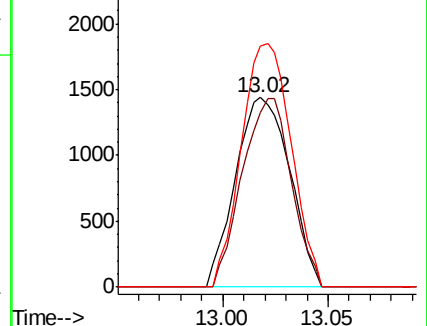
157 127.4 96.8 145.2

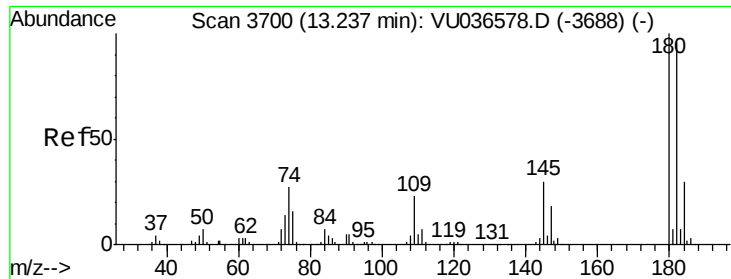


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

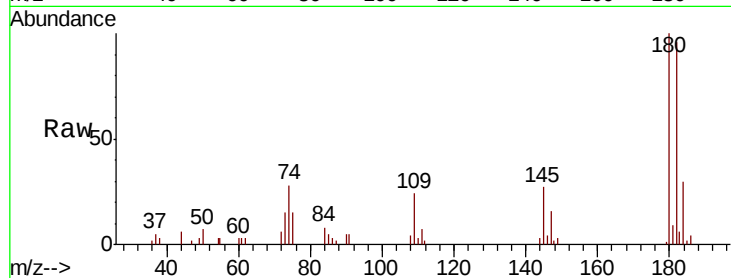




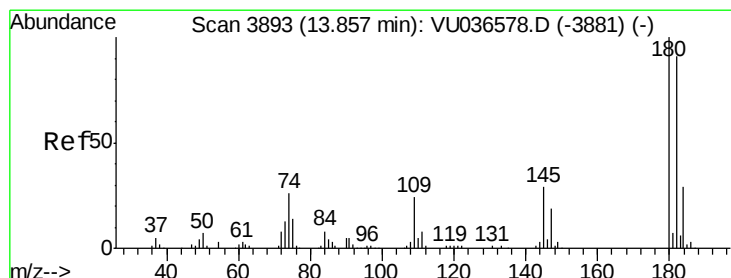
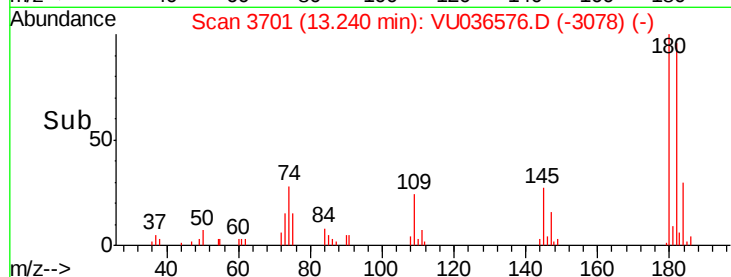
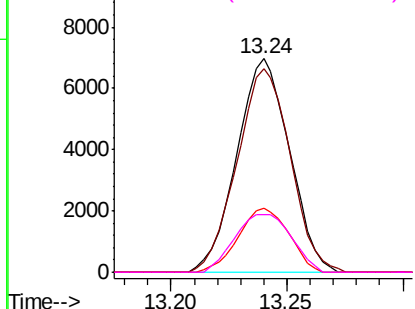
#67  
 1,3,5-Trichlorobenzene  
 Concen: 5.049 ug/L  
 RT: 13.24 min Scan# 3701  
 Delta R.T. 0.00 min  
 Lab File: VU036576.D  
 Acq: 28 Jan 2020 16:07

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Tot Ion:180 Resp: 11004  
 Ion Ratio Lower Upper  
 180 100  
 182 96.3 76.6 115.0  
 184 28.8 24.2 36.4  
 145 29.3 23.3 34.9

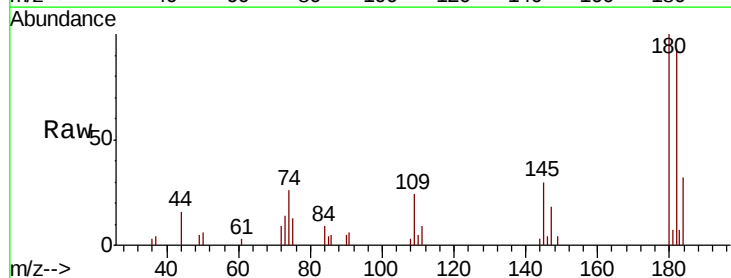


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

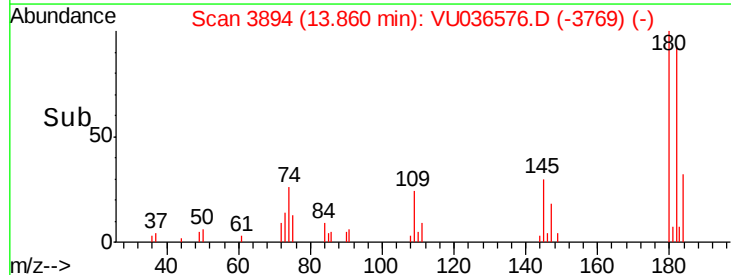
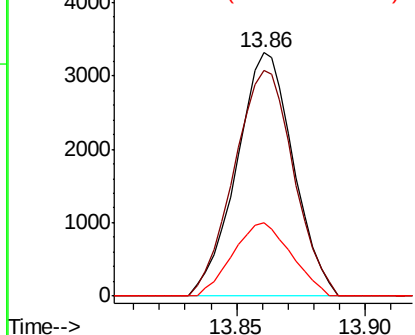


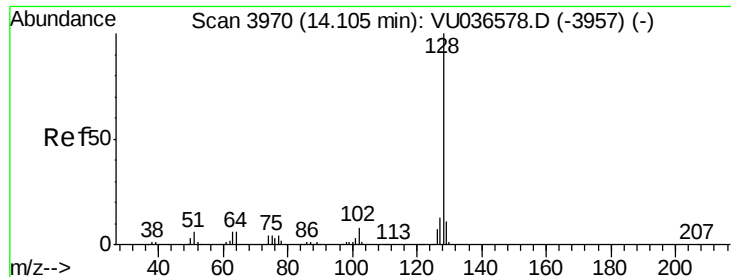
#68  
 1,2,4-trichlorobenzene  
 Concen: 3.157 ug/L  
 RT: 13.86 min Scan# 3894  
 Delta R.T. 0.00 min  
 Lab File: VU036576.D  
 Acq: 28 Jan 2020 16:07

Tgt Ion:180 Resp: 5086  
 Ion Ratio Lower Upper  
 180 100  
 182 97.2 74.9 112.3  
 145 31.0 23.8 35.8



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





#69

Naphthalene

Concen: 2.084 ug/L

RT: 14.10 min Scan# 3970

Delta R.T. -0.00 min

Lab File: VU036576.D

Acq: 28 Jan 2020 16:07

Instrument :

MSVOA\_U

ClientSampleId :

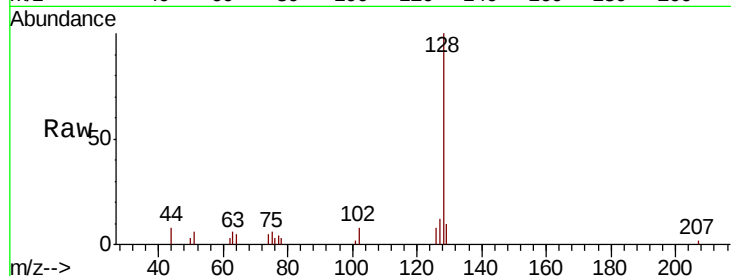
Tot Ion:128 Resp: 11041

Ion Ratio Lower Upper

128 100

127 12.7 10.6 15.8

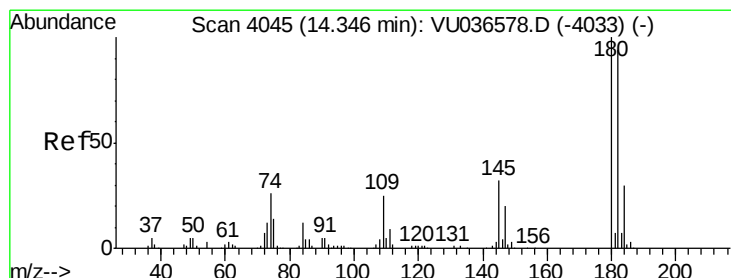
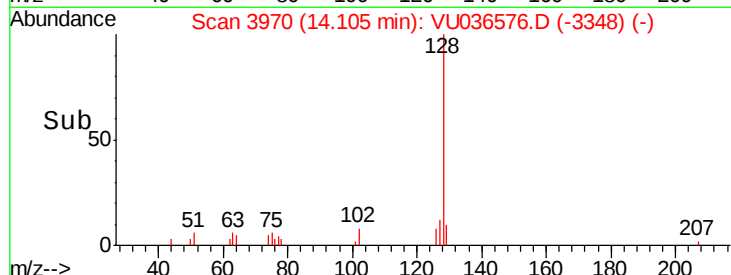
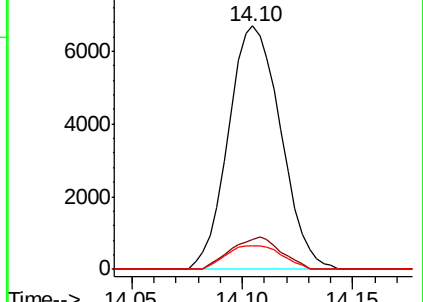
129 10.4 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 3.359 ug/L

RT: 14.35 min Scan# 4046

Delta R.T. 0.00 min

Lab File: VU036576.D

Acq: 28 Jan 2020 16:07

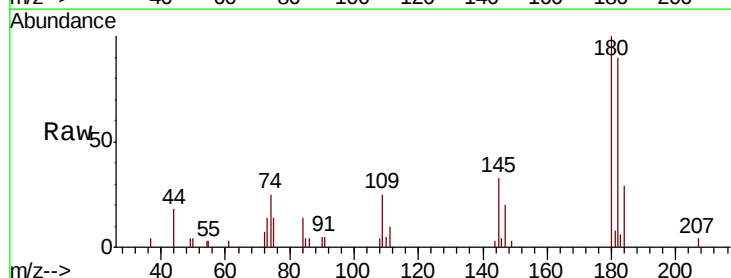
Tgt Ion:180 Resp: 5630

Ion Ratio Lower Upper

180 100

182 91.3 76.1 114.1

145 33.1 25.4 38.2



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

