

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU060120\  
 Data File : VU038459.D  
 Acq On : 01 Jun 2020 09:35  
 Operator : JC/MD  
 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Jun 02 05:19:38 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR053120WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Mon Jun 01 15:24:06 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.28  | 114  | 343316   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.44  | 117  | 334928   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.83 | 152  | 168061   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61   | 65    | 96274    | 4.33     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 86.60%  |
| 7) Chloroethane-d5             | 1.93   | 69    | 79888    | 4.68     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 93.60%  |
| 11) 1,1-Dichloroethene-d2      | 2.59   | 63    | 198903   | 4.55     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 91.00%  |
| 20) 2-Butanone-d5              | 4.69   | 46    | 341049   | 50.53    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 101.06% |
| 24) Chloroform-d               | 5.10   | 84    | 196857   | 4.72     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 94.40%  |
| 26) 1,2-Dichloroethane-d4      | 5.74   | 65    | 113338   | 4.78     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 95.60%  |
| 32) Benzene-d6                 | 5.76   | 84    | 385412   | 4.61     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 92.20%  |
| 36) 1,2-Dichloropropane-d6     | 6.72   | 67    | 118283   | 4.60     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 92.00%  |
| 41) Toluene-d8                 | 7.92   | 98    | 350800   | 4.68     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 93.60%  |
| 43) trans-1,3-Dichloropropene- | 8.20   | 79    | 52666    | 4.76     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 95.20%  |
| 46) 2-Hexanone-d5              | 8.66   | 63    | 277540   | 50.83    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 101.66% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.77  | 84    | 106918   | 4.90     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 98.00%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.21  | 152   | 132001   | 4.55     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 91.00%  |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.39 | 85  | 127282 | 4.704  | ug/L 99  |
| 3) Chloromethane               | 1.53 | 50  | 106027 | 4.267  | ug/L 99  |
| 5) Vinyl chloride              | 1.62 | 62  | 115696 | 4.346  | ug/L 99  |
| 6) Bromomethane                | 1.88 | 94  | 60264  | 4.662  | ug/L 95  |
| 8) Chloroethane                | 1.95 | 64  | 70679  | 4.431  | ug/L 97  |
| 9) Trichlorofluoromethane      | 2.16 | 101 | 168099 | 4.759  | ug/L 99  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.61 | 101 | 103593 | 4.980  | ug/L 99  |
| 12) 1,1-Dichloroethene         | 2.61 | 96  | 98347  | 4.651  | ug/L 90  |
| 13) Acetone                    | 2.69 | 43  | 230196 | 52.111 | ug/L 99  |
| 14) Carbon disulfide           | 2.82 | 76  | 290344 | 4.047  | ug/L 100 |
| 15) Methyl Acetate             | 2.99 | 43  | 56836  | 5.252  | ug/L 99  |
| 16) Methylene chloride         | 3.08 | 84  | 108181 | 4.521  | ug/L 99  |
| 17) Methyl tert-butyl Ether    | 3.40 | 73  | 265167 | 4.783  | ug/L 98  |
| 18) trans-1,2-Dichloroethene   | 3.38 | 96  | 99240  | 4.355  | ug/L 98  |
| 19) 1,1-Dichloroethane         | 3.91 | 63  | 193649 | 4.749  | ug/L 96  |
| 21) 2-Butanone                 | 4.76 | 43  | 380773 | 51.248 | ug/L 94  |
| 22) cis-1,2-Dichloroethene     | 4.71 | 96  | 111633 | 4.550  | ug/L 96  |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU060120\  
 Data File : VU038459.D  
 Acq On : 01 Jun 2020 09:35  
 Operator : JC/MD  
 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Jun 02 05:19:38 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR053120WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Mon Jun 01 15:24:06 2020  
 Response via : Initial Calibration

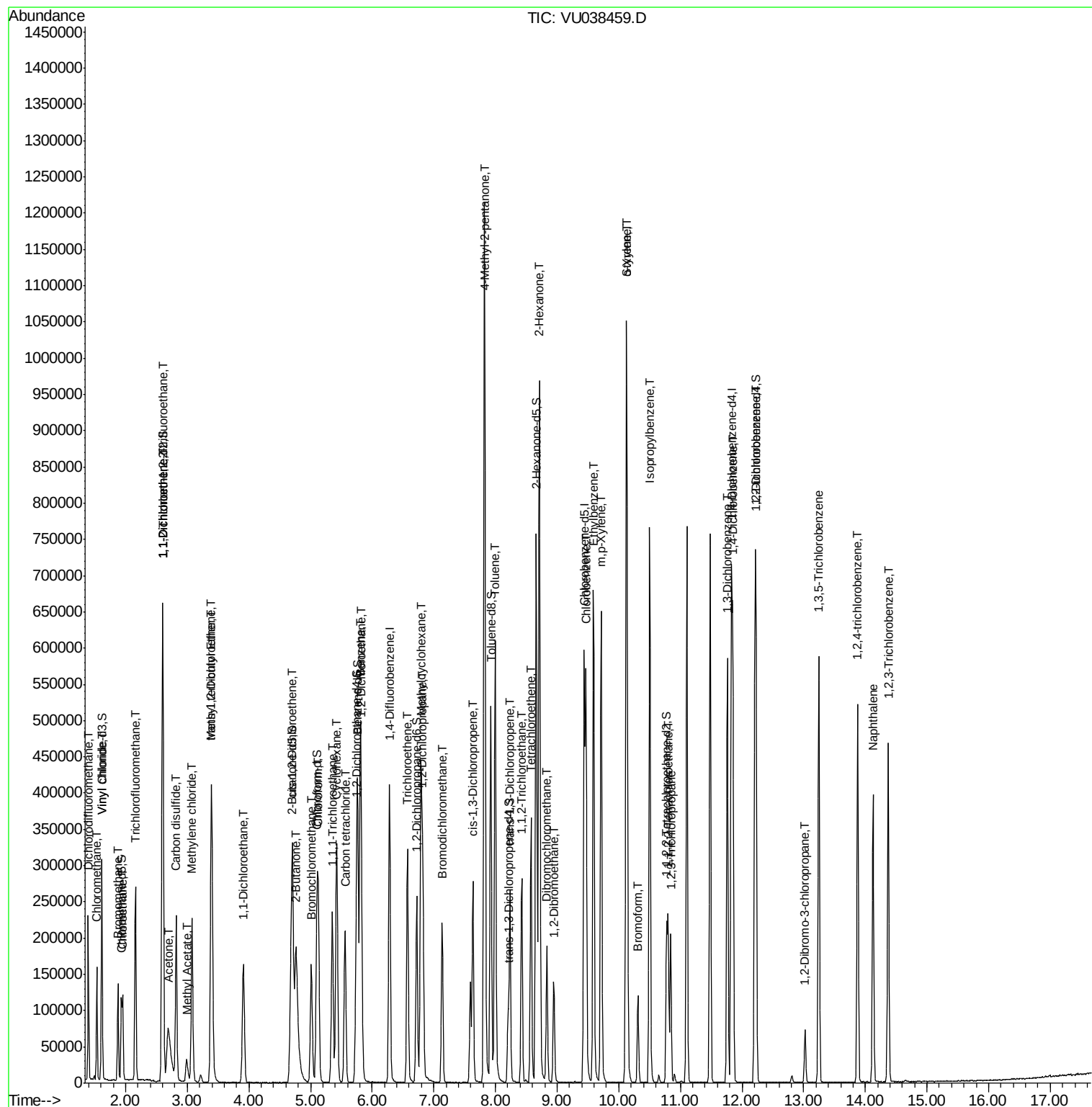
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane         | 5.01  | 128  | 51078    | 4.626  | ug/L  | 97       |
| 25) Chloroform                 | 5.13  | 83   | 194708   | 4.701  | ug/L  | 98       |
| 27) 1,2-Dichloroethane         | 5.83  | 62   | 139237   | 4.774  | ug/L  | 99       |
| 29) 1,1,1-Trichloroethane      | 5.35  | 97   | 171686   | 4.844  | ug/L  | 99       |
| 30) Cyclohexane                | 5.42  | 56   | 168763   | 4.541  | ug/L  | 100      |
| 31) Carbon tetrachloride       | 5.56  | 117  | 142113   | 4.817  | ug/L  | 99       |
| 33) Benzene                    | 5.81  | 78   | 430696   | 4.611  | ug/L  | 100      |
| 34) Trichloroethene            | 6.57  | 95   | 110755   | 4.569  | ug/L  | 98       |
| 35) Methylcyclohexane          | 6.79  | 83   | 170818   | 4.551  | ug/L  | 99       |
| 37) 1,2-Dichloropropane        | 6.82  | 63   | 109556   | 4.662  | ug/L  | 99       |
| 38) Bromodichloromethane       | 7.13  | 83   | 143135   | 4.904  | ug/L  | 100      |
| 39) cis-1,3-Dichloropropene    | 7.64  | 75   | 166119   | 4.783  | ug/L  | 98       |
| 40) 4-Methyl-2-pentanone       | 7.82  | 43   | 819344   | 48.748 | ug/L  | 99       |
| 42) Toluene                    | 8.00  | 91   | 455794   | 4.653  | ug/L  | 97       |
| 44) trans-1,3-Dichloropropene  | 8.24  | 75   | 148038   | 4.826  | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane      | 8.43  | 97   | 87223    | 4.919  | ug/L  | 98       |
| 47) Tetrachloroethene          | 8.58  | 164  | 82628    | 4.692  | ug/L  | 97       |
| 48) 2-Hexanone                 | 8.71  | 43   | 633936   | 49.804 | ug/L  | 99       |
| 49) Dibromochloromethane       | 8.83  | 129  | 96429    | 5.039  | ug/L  | 99       |
| 50) 1,2-Dibromoethane          | 8.95  | 107  | 82448    | 4.856  | ug/L  | 99       |
| 51) Chlorobenzene              | 9.47  | 112  | 290671   | 4.601  | ug/L  | 98       |
| 52) Ethylbenzene               | 9.59  | 91   | 497493   | 4.565  | ug/L  | 99       |
| 53) m,p-Xylene                 | 9.72  | 106  | 193505   | 4.617  | ug/L  | 97       |
| 54) o-Xylene                   | 10.12 | 106  | 187010   | 4.648  | ug/L  | 99       |
| 55) Styrene                    | 10.13 | 104  | 321664   | 4.709  | ug/L  | 99       |
| 56) Isopropylbenzene           | 10.50 | 105  | 496911   | 4.692  | ug/L  | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.80 | 83   | 108629   | 4.821  | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane     | 10.84 | 75   | 85854    | 4.894  | ug/L  | 100      |
| 61) Bromoform                  | 10.31 | 173  | 52663    | 5.030  | ug/L  | 100      |
| 62) 1,3-Dichlorobenzene        | 11.76 | 146  | 230736   | 4.673  | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene        | 11.85 | 146  | 234812   | 4.689  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene        | 12.23 | 146  | 222730   | 4.750  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 13.02 | 75   | 18529    | 4.881  | ug/L  | 94       |
| 67) 1,3,5-Trichlorobenzene     | 13.25 | 180  | 172149   | 4.673  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene     | 13.88 | 180  | 153815   | 4.511  | ug/L  | 99       |
| 69) Naphthalene                | 14.12 | 128  | 311636   | 4.592  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene     | 14.37 | 180  | 142772   | 4.602  | ug/L  | 98       |

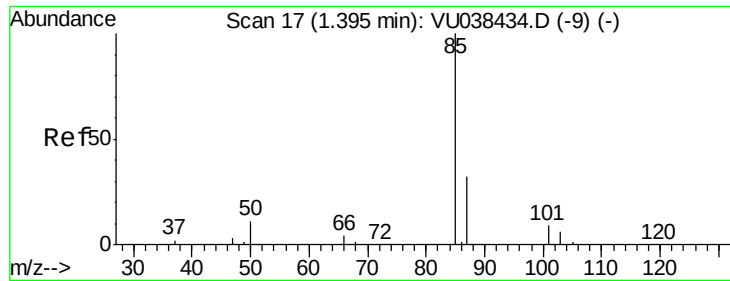
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU060120\  
Data File : VU038459.D  
Acq On : 01 Jun 2020 09:35  
Operator : JC/MD  
Sample : VSTDCCC005  
Misc : 25.0mL/MSVOA U/WATER  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :

Quant Time: Jun 02 05:19:38 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR053120WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Mon Jun 01 15:24:06 2020  
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 4.704 ug/L

RT: 1.39 min Scan# 17

Delta R.T. -0.00 min

Lab File: VU038459.D

Acq: 01 Jun 2020 09:35

Instrument :

MSVOA\_U

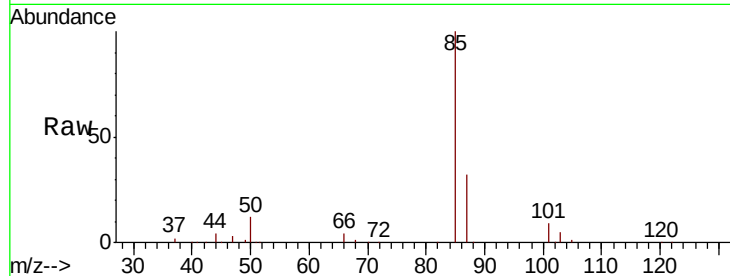
ClientSampled :

Tot Ion: 85 Resp: 127282

Ion Ratio Lower Upper

85 100

87 32.0 25.2 37.8



Abundance Ion 85.00 (84.70 to 85.70): VU038434.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VU038434.D (-9) (-)

1.39

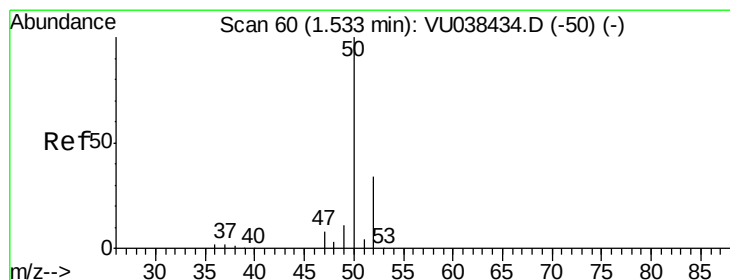
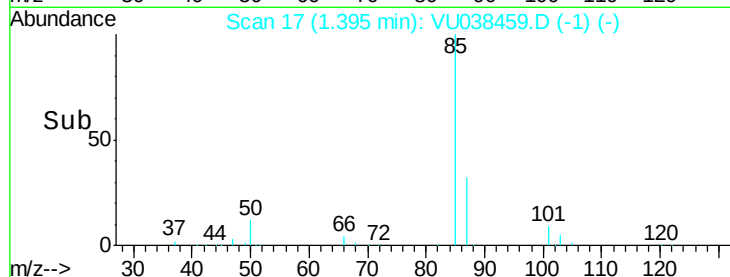
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 4.267 ug/L

RT: 1.53 min Scan# 60

Delta R.T. -0.00 min

Lab File: VU038459.D

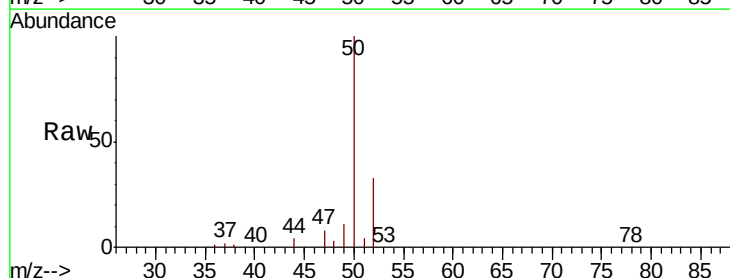
Acq: 01 Jun 2020 09:35

Tgt Ion: 50 Resp: 106027

Ion Ratio Lower Upper

50 100

52 33.0 22.9 42.5



Abundance Ion 50.05 (49.75 to 50.75): VU038434.D (-50) (-)

Ion 52.05 (51.75 to 52.75): VU038434.D (-50) (-)

1.53

100000

80000

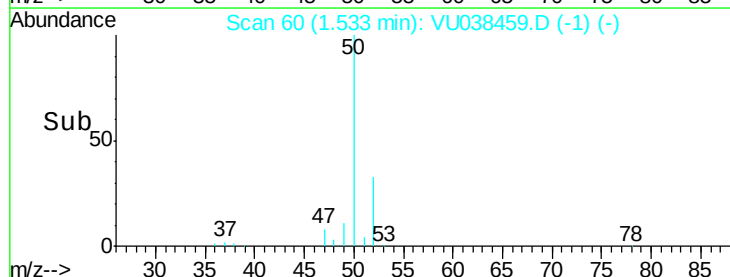
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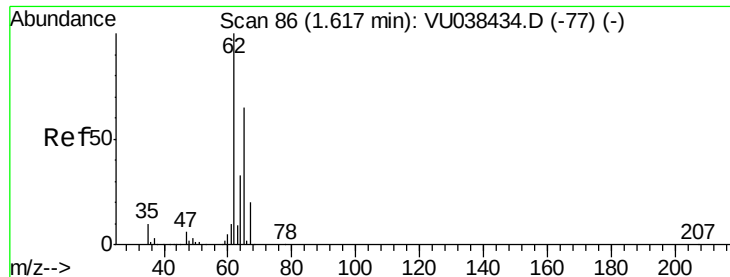
40000

20000

0

Time-->





#5

Vinyl chloride

Concen: 4.346 ug/L

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU038459.D

Acq: 01 Jun 2020 09:35

Instrument :

MSVOA\_U

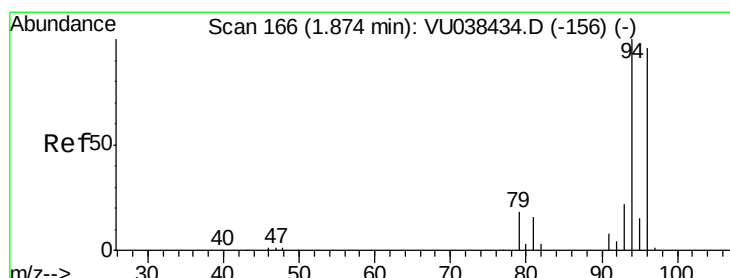
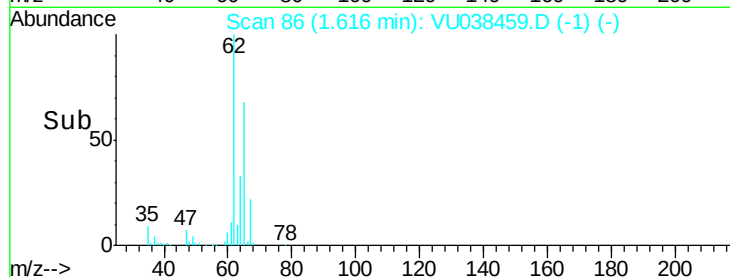
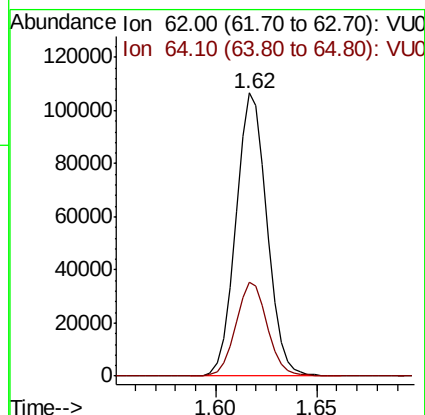
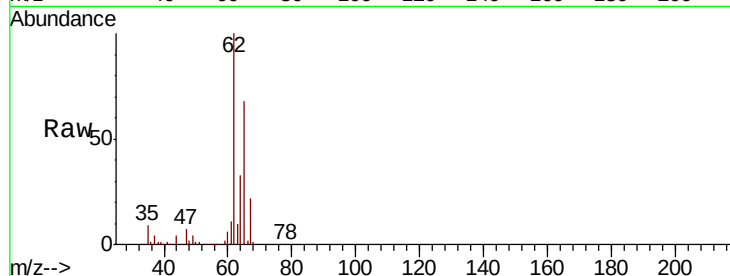
ClientSampled :

Tot Ion: 62 Resp: 115696

Ion Ratio Lower Upper

62 100

64 33.1 23.7 43.9



#6

Bromomethane

Concen: 4.662 ug/L

RT: 1.88 min Scan# 167

Delta R.T. 0.00 min

Lab File: VU038459.D

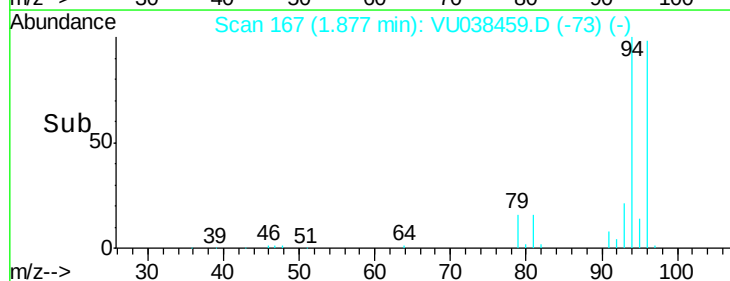
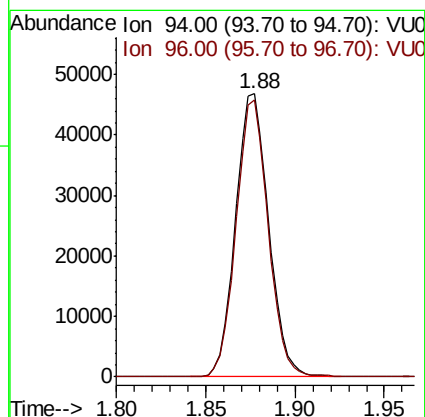
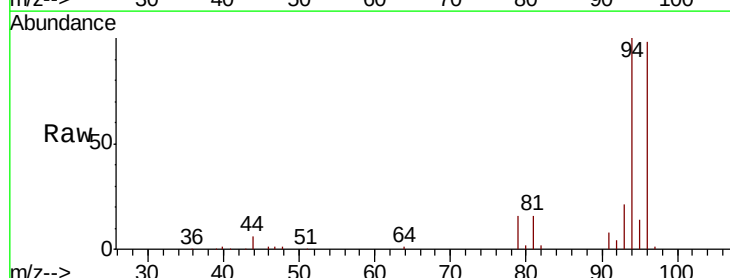
Acq: 01 Jun 2020 09:35

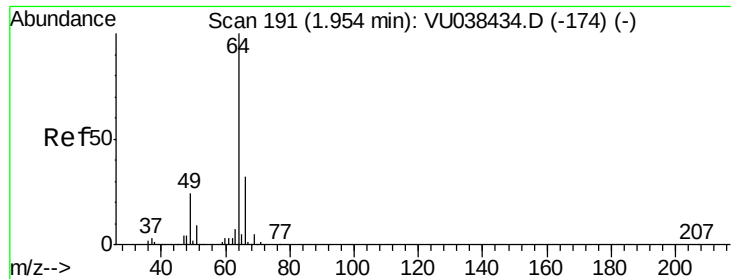
Tgt Ion: 94 Resp: 60264

Ion Ratio Lower Upper

94 100

96 98.0 65.5 121.6

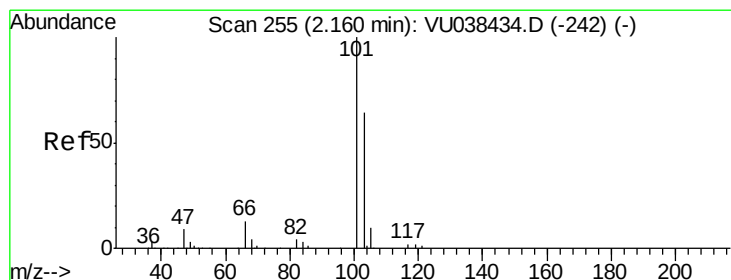
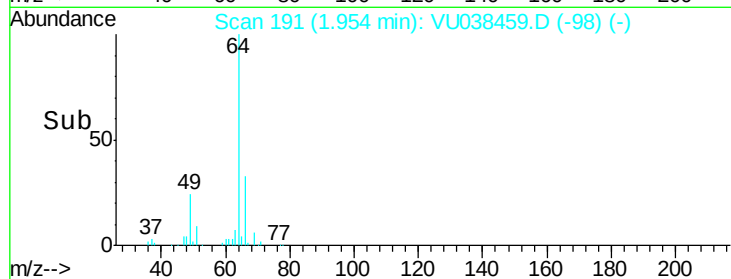
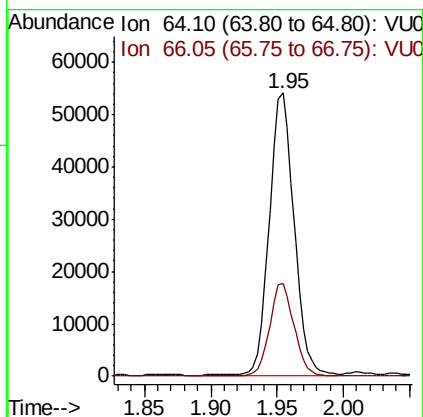
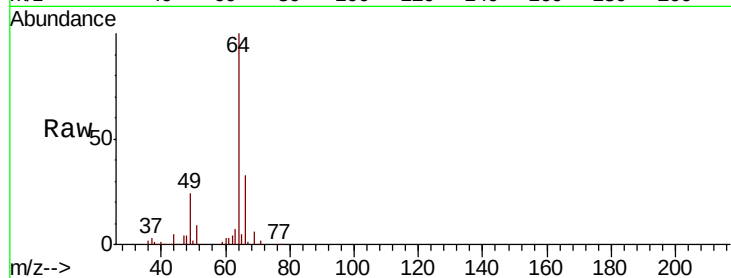




#8  
Chloroethane  
Concen: 4.431 ug/L  
RT: 1.95 min Scan# 191  
Delta R.T. -0.00 min  
Lab File: VU038459.D  
Acq: 01 Jun 2020 09:35

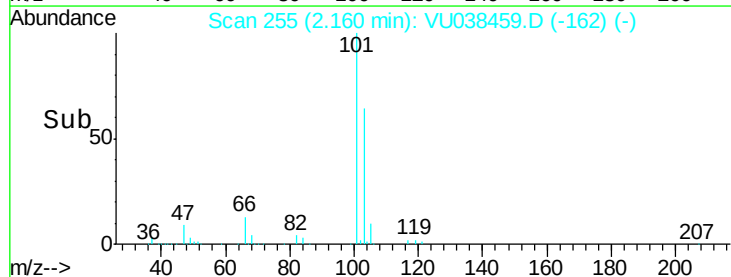
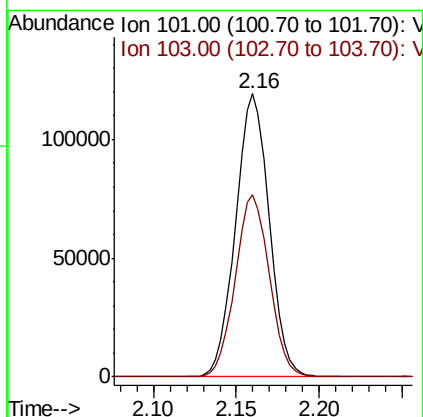
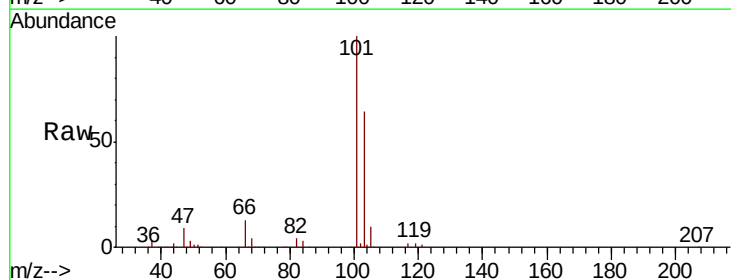
Instrument :  
MSVOA\_U  
ClientSampleId :

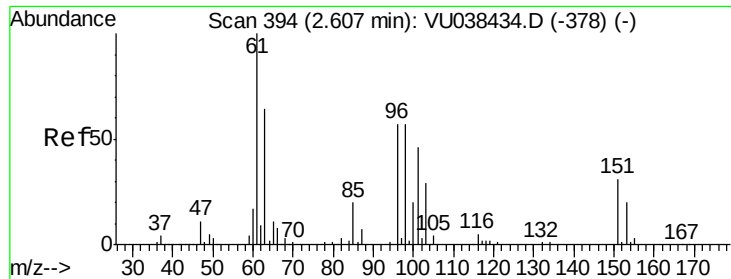
Tot Ion: 64 Resp: 70679  
Ion Ratio Lower Upper  
64 100  
66 32.5 21.5 39.9



#9  
Trichlorofluoromethane  
Concen: 4.759 ug/L  
RT: 2.16 min Scan# 255  
Delta R.T. -0.00 min  
Lab File: VU038459.D  
Acq: 01 Jun 2020 09:35

Tgt Ion: 101 Resp: 168099  
Ion Ratio Lower Upper  
101 100  
103 65.1 51.1 76.7





#10

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

Concen: 4.980 ug/L

RT: 2.61 min Scan# 394

Delta R.T. -0.00 min

Lab File: VU038459.D

Acq: 01 Jun 2020 09:35

Instrument :

MSVOA\_U

ClientSampleId :

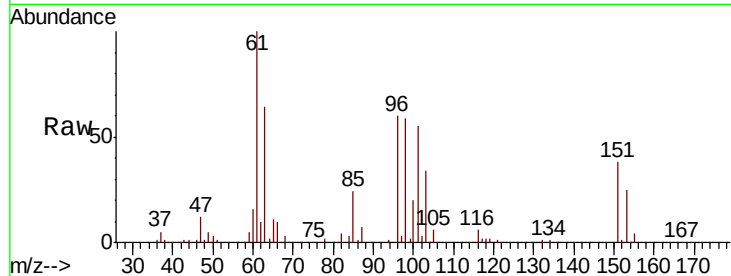
Tot Ion:101 Resp: 103593

Ion Ratio Lower Upper

101 100

85 43.7 34.0 51.0

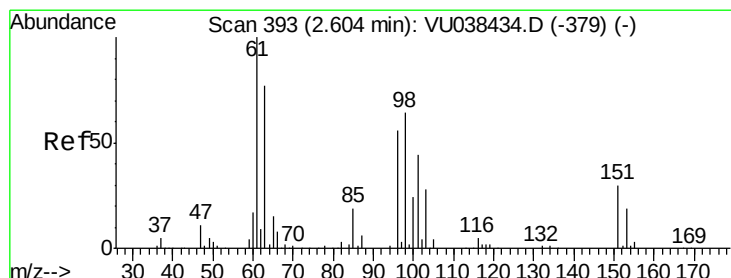
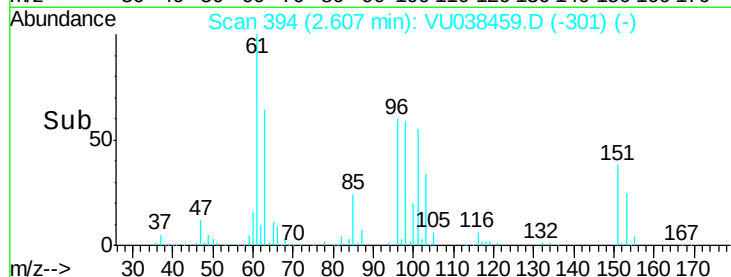
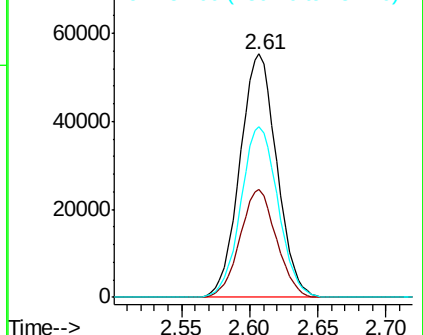
151 70.8 56.9 85.3



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: 4.651 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU038459.D

Acq: 01 Jun 2020 09:35

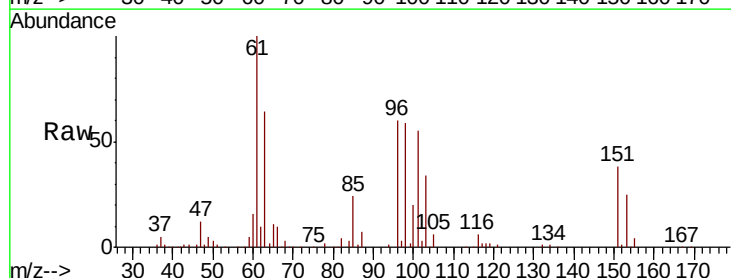
Tgt Ion: 96 Resp: 98347

Ion Ratio Lower Upper

96 100

61 167.0 119.9 222.7

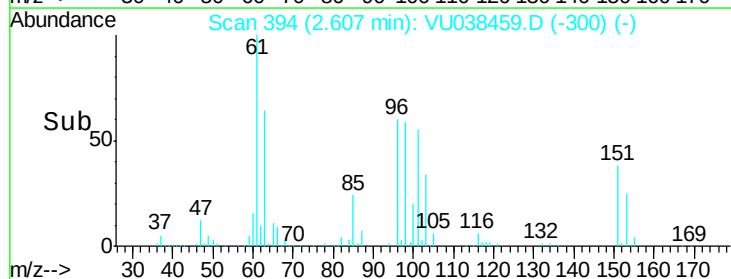
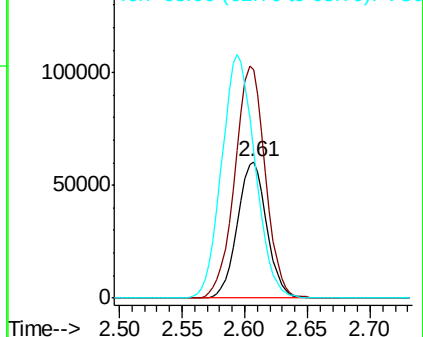
63 107.4 89.9 167.0

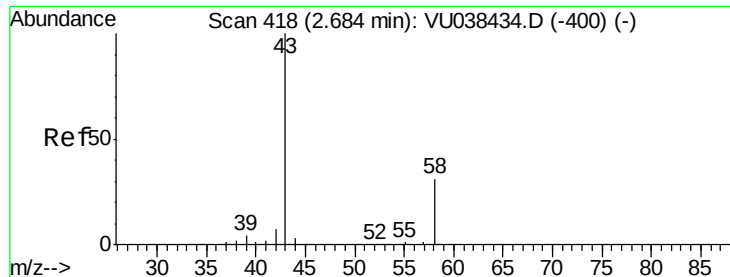


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 52.111 ug/L

RT: 2.69 min Scan# 421

Delta R.T. 0.01 min

Lab File: VU038459.D

Acq: 01 Jun 2020 09:35

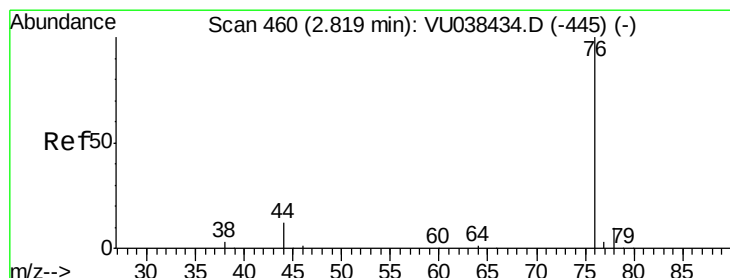
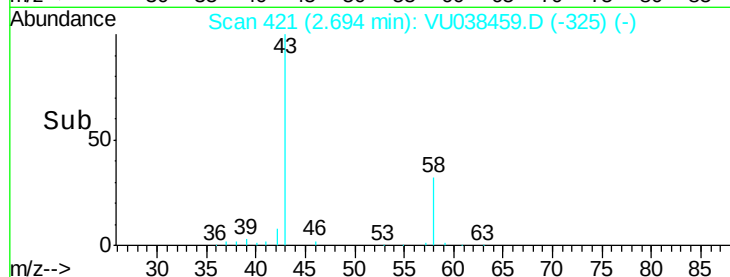
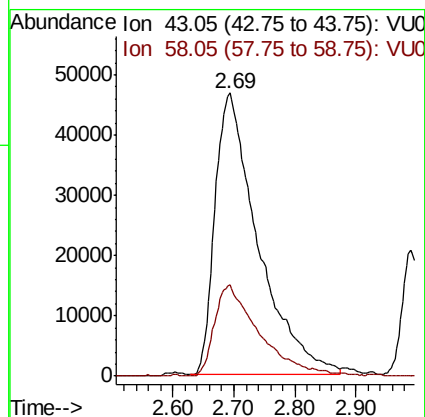
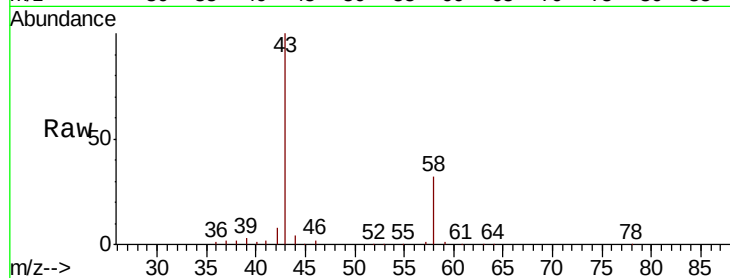
Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 43 Resp: 230196

Ion Ratio Lower Upper

43 100

58 33.5 0.0 65.6



#14

Carbon disulfide

Concen: 4.047 ug/L

RT: 2.82 min Scan# 460

Delta R.T. -0.00 min

Lab File: VU038459.D

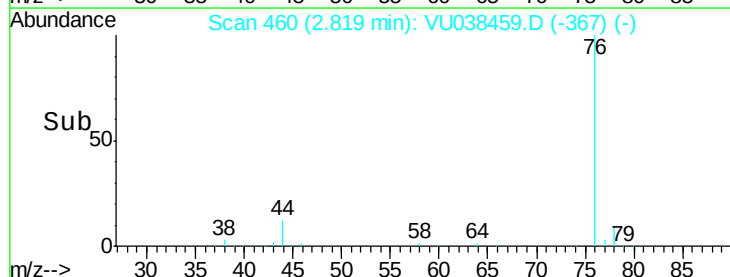
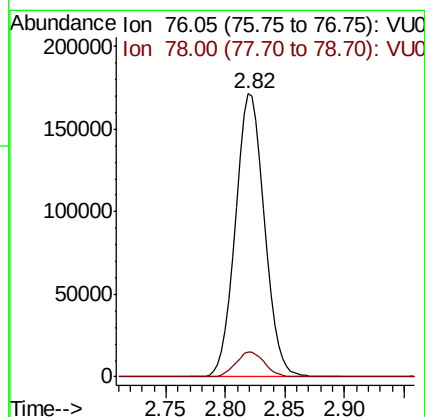
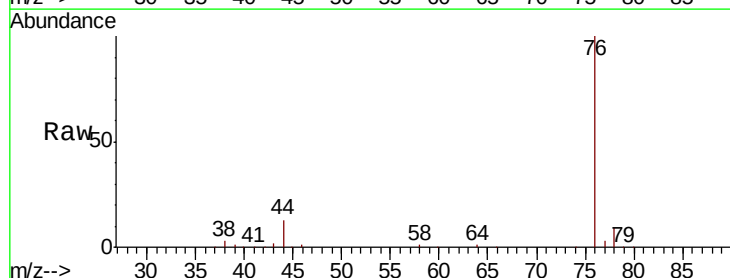
Acq: 01 Jun 2020 09:35

Tgt Ion: 76 Resp: 290344

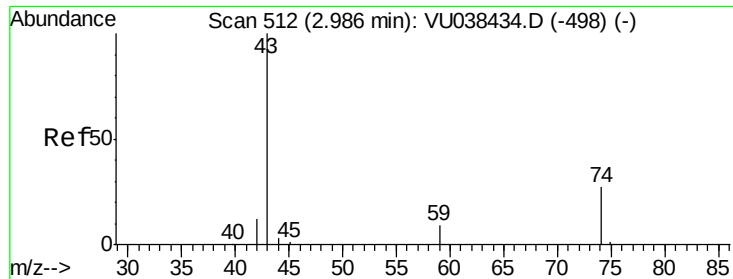
Ion Ratio Lower Upper

76 100

78 9.0 7.3 10.9



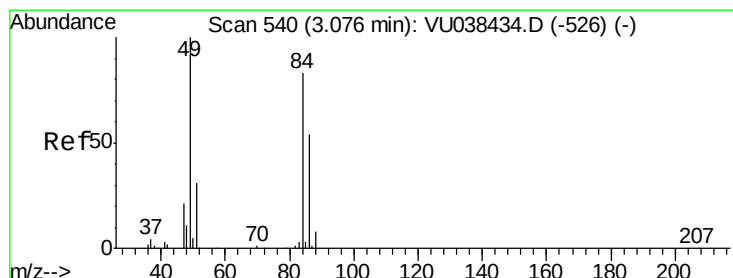
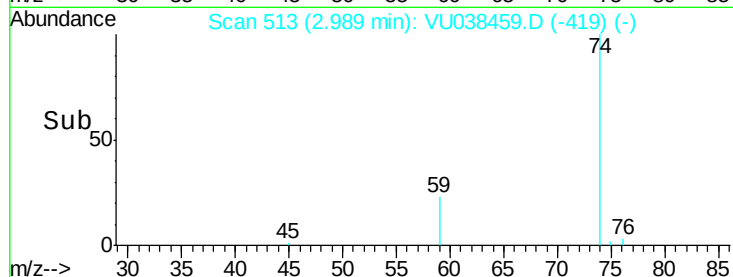
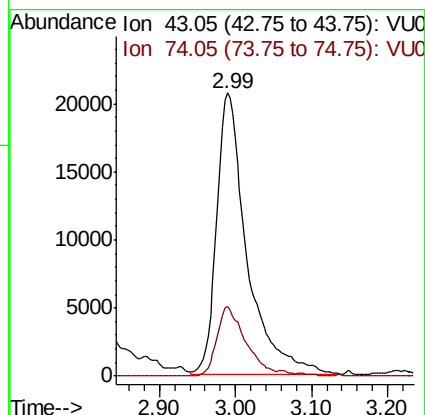
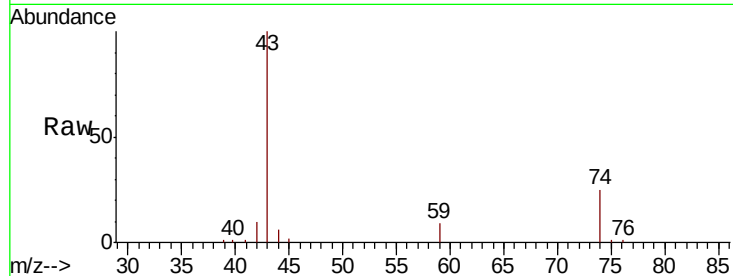




#15  
Methvl Acetate  
Concen: 5.252 ug/L  
RT: 2.99 min Scan# 513  
Delta R.T. 0.00 min  
Lab File: VU038459.D  
Acq: 01 Jun 2020 09:35

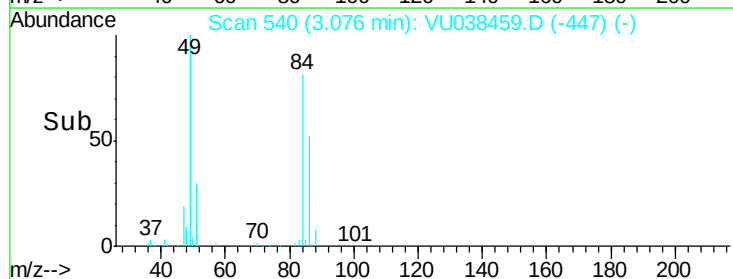
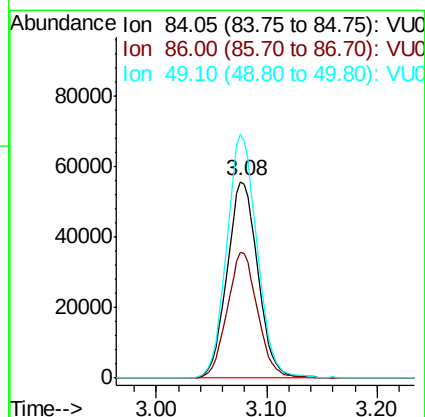
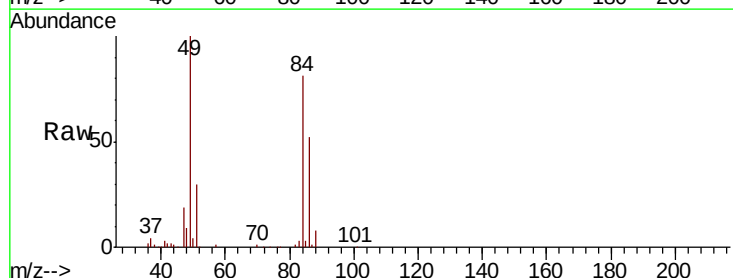
Instrument :  
MSVOA\_U  
ClientSampleId :

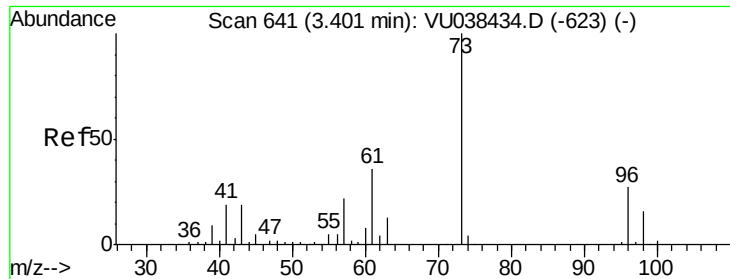
Tot Ion: 43 Resp: 56836  
Ion Ratio Lower Upper  
43 100  
74 23.3 19.2 28.8



#16  
Methylene chloride  
Concen: 4.521 ug/L  
RT: 3.08 min Scan# 540  
Delta R.T. -0.00 min  
Lab File: VU038459.D  
Acq: 01 Jun 2020 09:35

Tgt Ion: 84 Resp: 108181  
Ion Ratio Lower Upper  
84 100  
86 64.1 45.0 83.6  
49 123.9 85.5 158.9

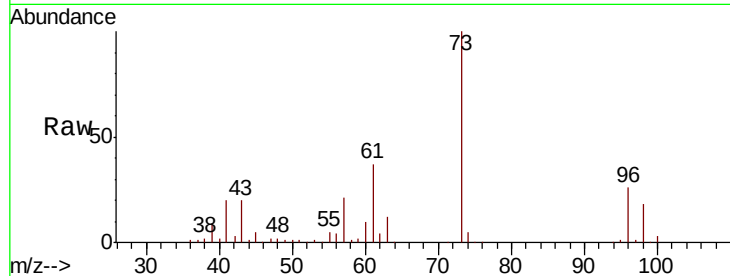




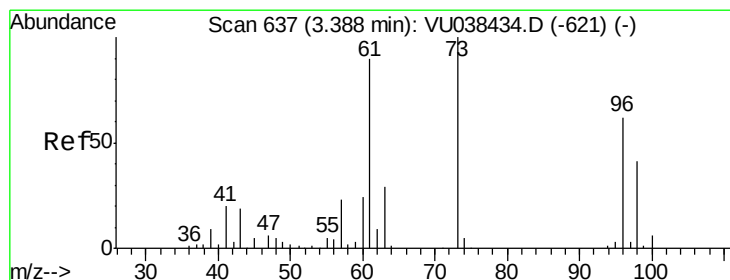
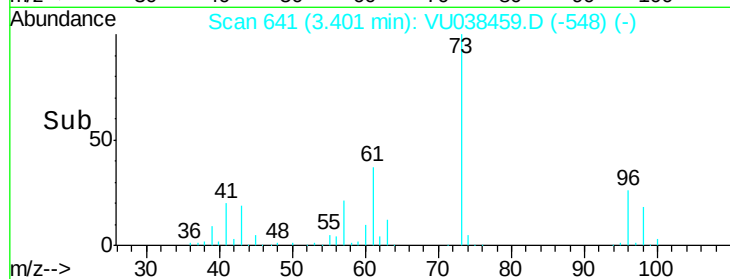
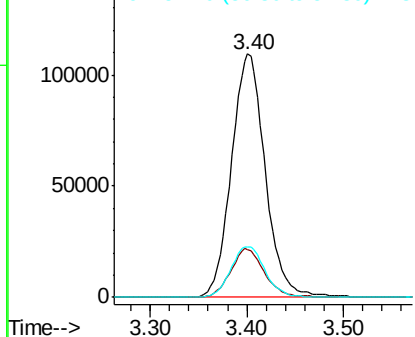
#17  
Methyl tert-butyl Ether  
Concen: 4.783 ug/L  
RT: 3.40 min Scan# 641  
Delta R.T. -0.00 min  
Lab File: VU038459.D  
Acq: 01 Jun 2020 09:35

Instrument :  
MSVOA\_U  
ClientSampled :

Tot Ion: 73 Resp: 265167  
Ion Ratio Lower Upper  
73 100  
43 20.1 15.5 23.3  
57 21.2 17.8 26.6

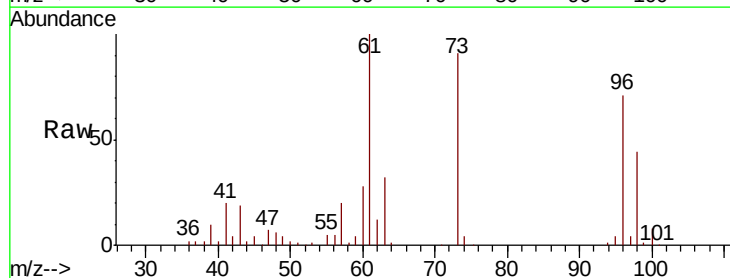


Abundance Ion 73.10 (72.80 to 73.80): VU0  
Ion 43.05 (42.75 to 43.75): VU0  
Ion 57.10 (56.80 to 57.80): VU0

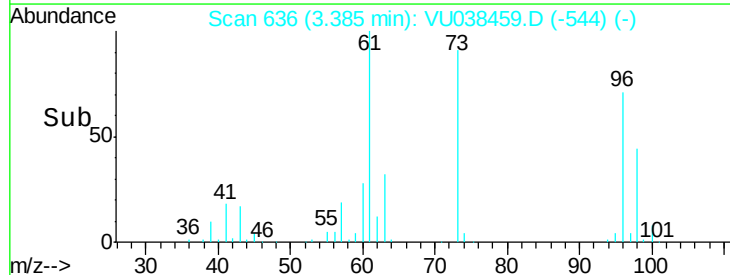
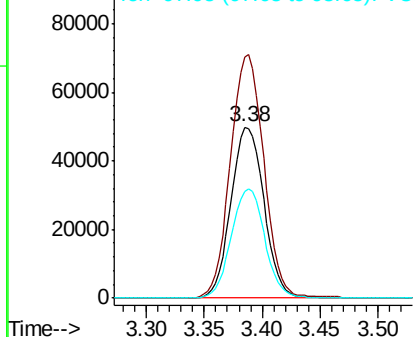


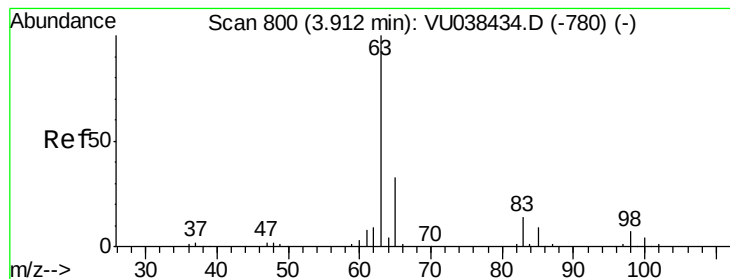
#18  
trans-1,2-Dichloroethene  
Concen: 4.355 ug/L  
RT: 3.38 min Scan# 636  
Delta R.T. -0.00 min  
Lab File: VU038459.D  
Acq: 01 Jun 2020 09:35

Tgt Ion: 96 Resp: 99240  
Ion Ratio Lower Upper  
96 100  
61 141.0 100.2 186.0  
98 62.5 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: 4.749 ug/L

RT: 3.91 min Scan# 799

Delta R.T. -0.00 min

Lab File: VU038459.D

Acq: 01 Jun 2020 09:35

Instrument :

MSVOA\_U

ClientSampled :

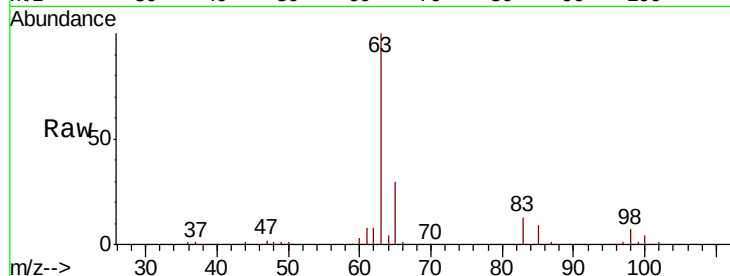
Tot Ion: 63 Resp: 193649

Ion Ratio Lower Upper

63 100

65 29.9 22.3 41.5

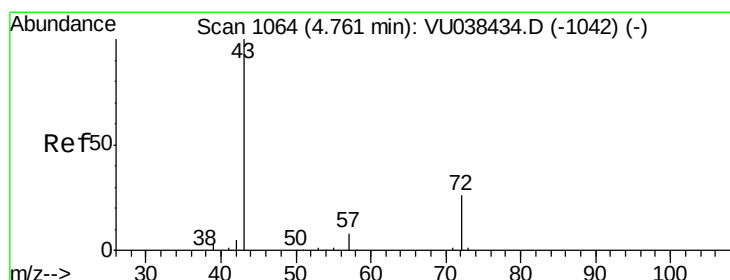
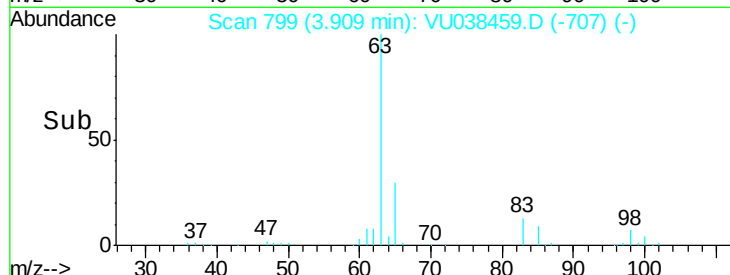
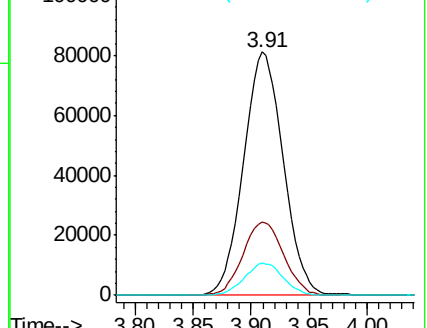
83 13.1 10.4 19.4



Abundance Ion 63.10 (62.80 to 63.80): VU038459.D (-707) (-)

Ion 65.10 (64.80 to 65.80): VU038459.D (-707) (-)

Ion 83.05 (82.75 to 83.75): VU038459.D (-707) (-)



#21

2-Butanone

Concen: 51.248 ug/L

RT: 4.76 min Scan# 1065

Delta R.T. 0.00 min

Lab File: VU038459.D

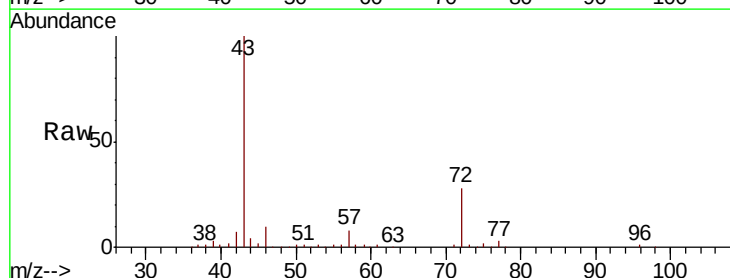
Acq: 01 Jun 2020 09:35

Tgt Ion: 43 Resp: 380773

Ion Ratio Lower Upper

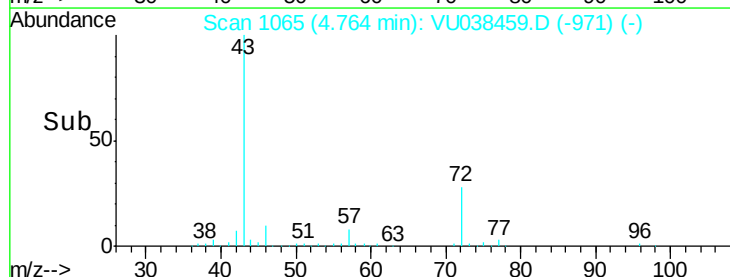
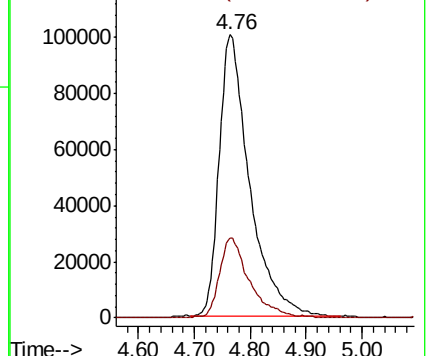
43 100

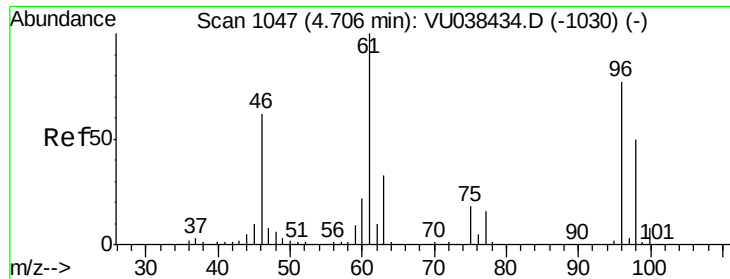
72 28.1 12.6 37.8



Abundance Ion 43.05 (42.75 to 43.75): VU038459.D (-971) (-)

Ion 72.10 (71.80 to 72.80): VU038459.D (-971) (-)





#22

cis-1,2-Dichloroethene

Concen: 4.550 ug/L

RT: 4.71 min Scan# 1047

Delta R.T. -0.00 min

Lab File: VU038459.D

Acq: 01 Jun 2020 09:35

Instrument :  
MSVOA\_U  
ClientSampled :

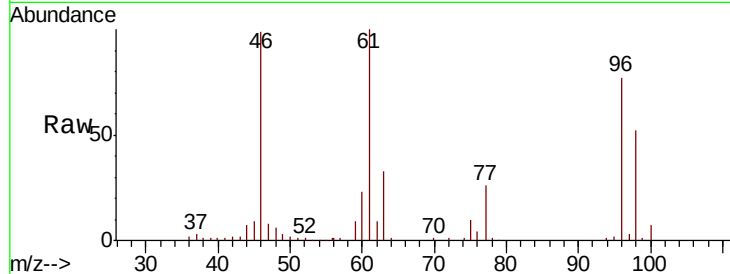
Tot Ion: 96 Resp: 111633

Ion Ratio Lower Upper

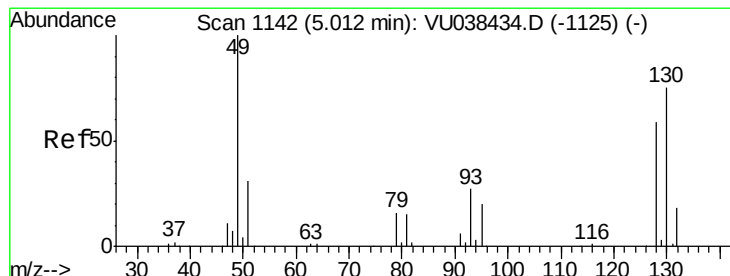
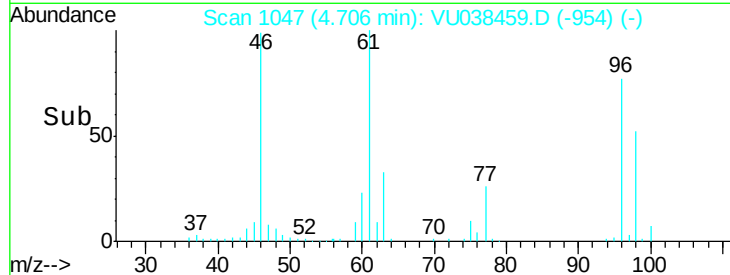
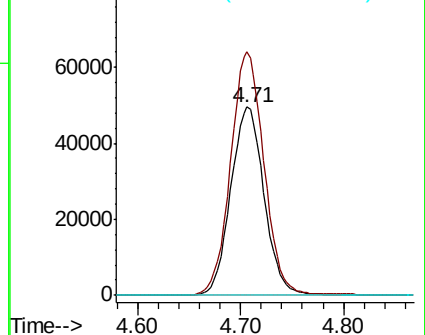
96 100

61 129.3 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: 4.626 ug/L

RT: 5.01 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VU038459.D

Acq: 01 Jun 2020 09:35

Tgt Ion:128 Resp: 51078

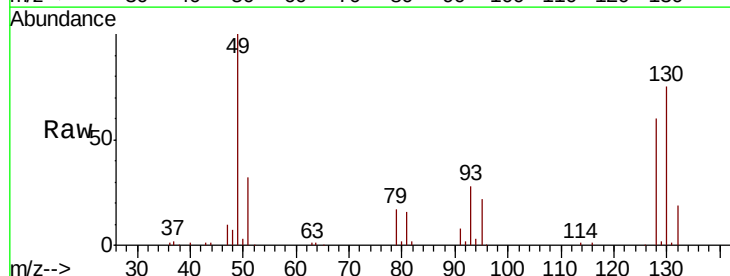
Ion Ratio Lower Upper

128 100

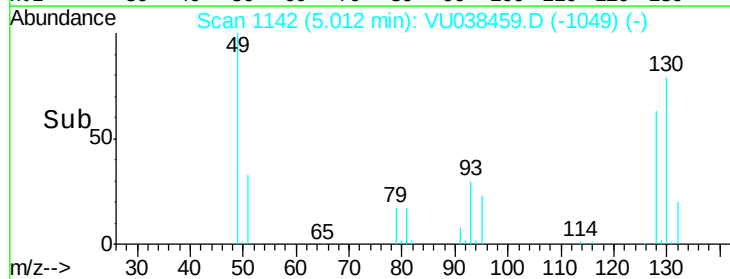
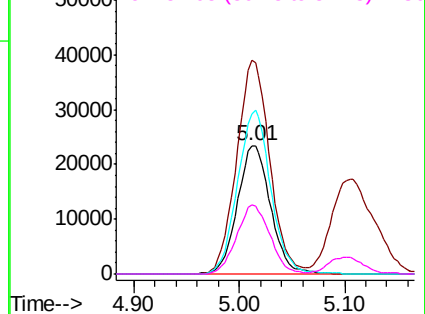
49 166.2 111.9 207.7

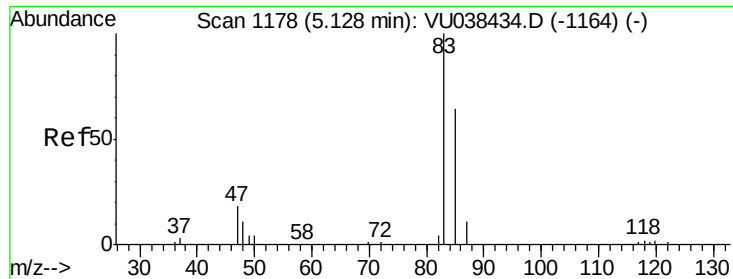
130 124.4 86.5 160.7

51 53.8 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

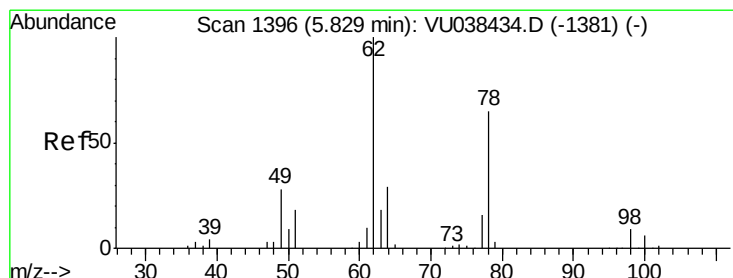
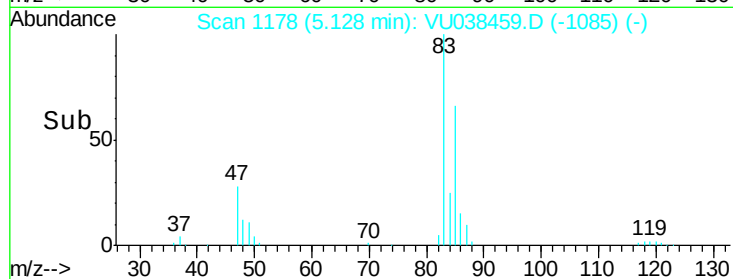
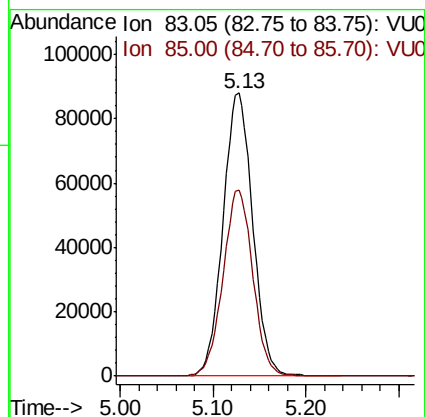
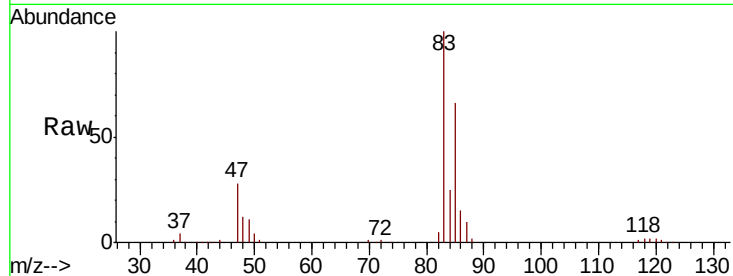




#25  
Chloroform  
Concen: 4.701 ug/L  
RT: 5.13 min Scan# 1178  
Delta R.T. -0.00 min  
Lab File: VU038459.D  
Acq: 01 Jun 2020 09:35

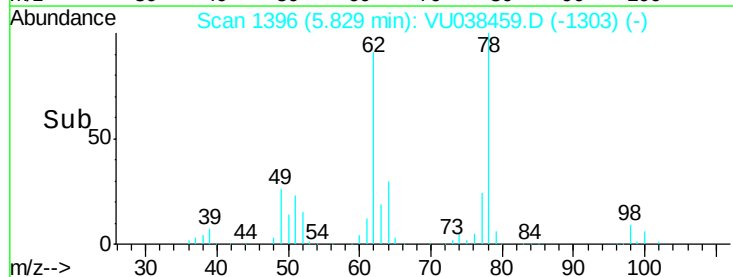
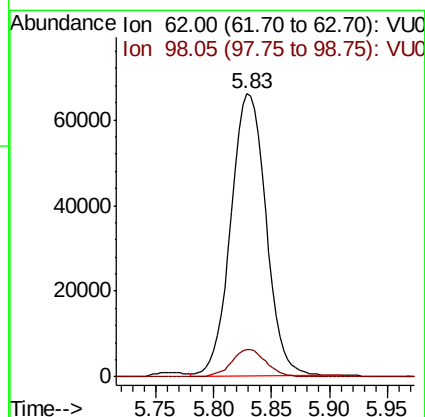
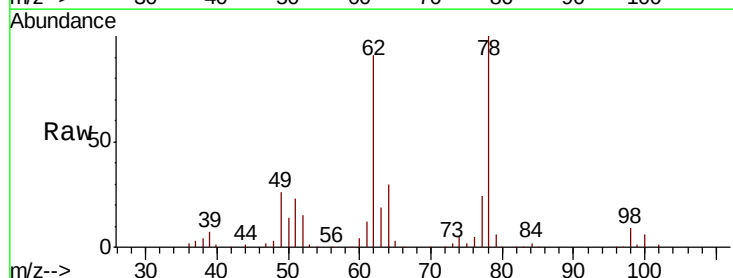
Instrument :  
MSVOA\_U  
ClientSampled :

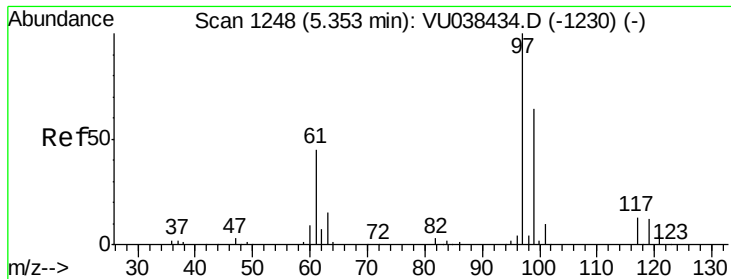
Tot Ion: 83 Resp: 194708  
Ion Ratio Lower Upper  
83 100  
85 65.9 44.9 83.5



#27  
1,2-Dichloroethane  
Concen: 4.774 ug/L  
RT: 5.83 min Scan# 1396  
Delta R.T. -0.00 min  
Lab File: VU038459.D  
Acq: 01 Jun 2020 09:35

Tgt Ion: 62 Resp: 139237  
Ion Ratio Lower Upper  
62 100  
98 9.5 7.4 11.2

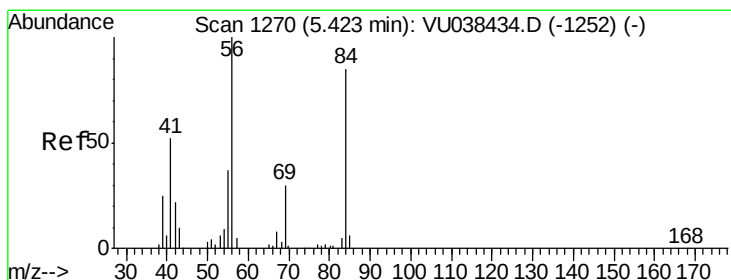
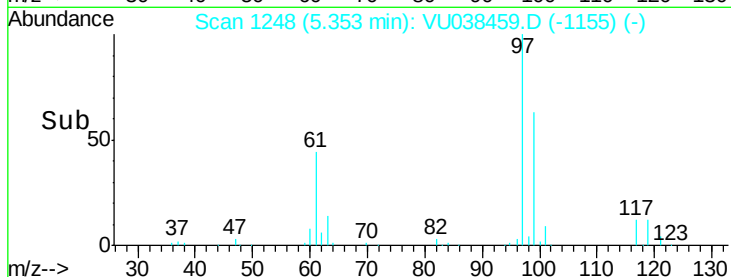
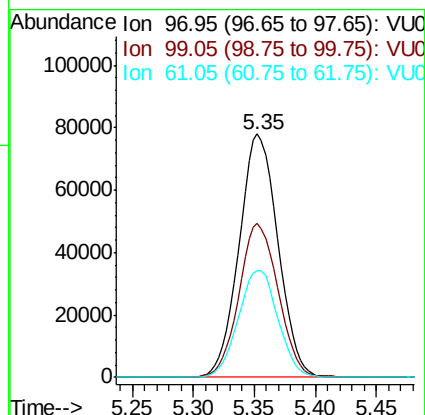
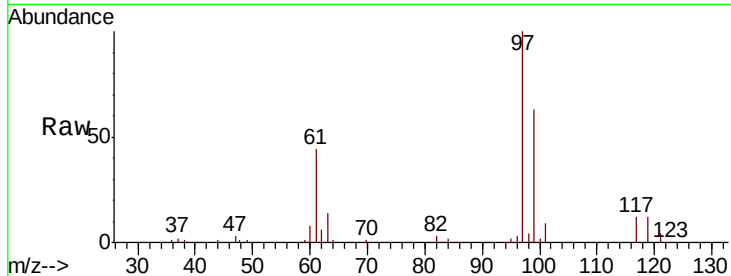




#29  
 1,1,1-Trichloroethane  
 Concen: 4.844 ug/L  
 RT: 5.35 min Scan# 1248  
 Delta R.T. -0.00 min  
 Lab File: VU038459.D  
 Acq: 01 Jun 2020 09:35

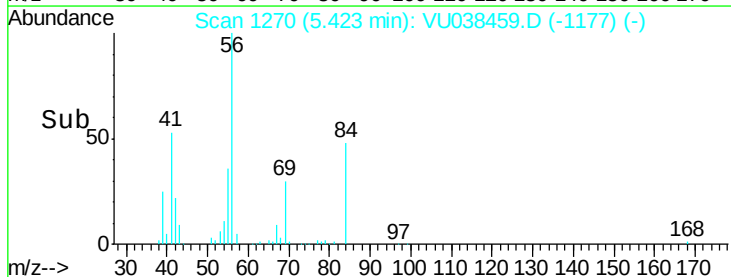
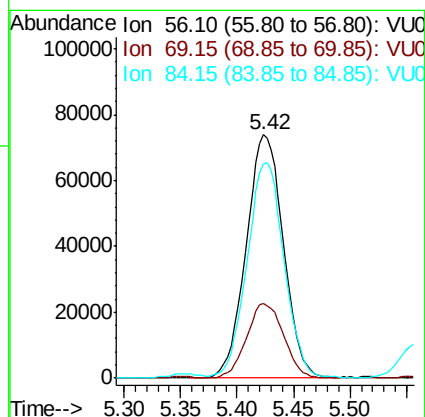
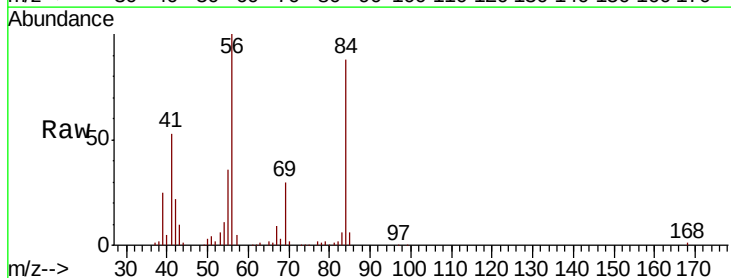
Instrument :  
 MSVOA\_U  
 ClientSampleId :

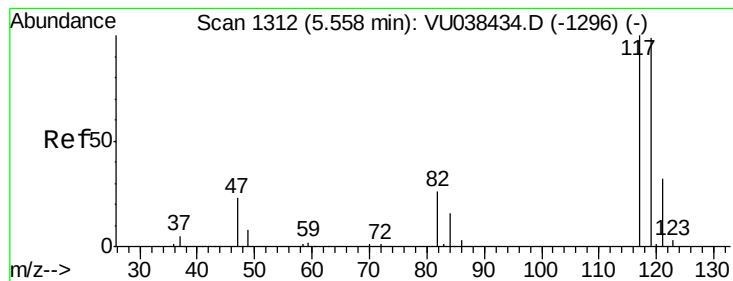
Tot Ion: 97 Resp: 171686  
 Ion Ratio Lower Upper  
 97 100  
 99 64.1 52.2 78.2  
 61 44.8 35.4 53.2



#30  
 Cyclohexane  
 Concen: 4.541 ug/L  
 RT: 5.42 min Scan# 1270  
 Delta R.T. -0.00 min  
 Lab File: VU038459.D  
 Acq: 01 Jun 2020 09:35

Tgt Ion: 56 Resp: 168763  
 Ion Ratio Lower Upper  
 56 100  
 69 30.5 24.2 36.4  
 84 88.4 70.8 106.2





#31

Carbon tetrachloride

Concen: 4.817 ug/L

RT: 5.56 min Scan# 1312

Delta R.T. -0.00 min

Lab File: VU038459.D

Acq: 01 Jun 2020 09:35

Instrument :

MSVOA\_U

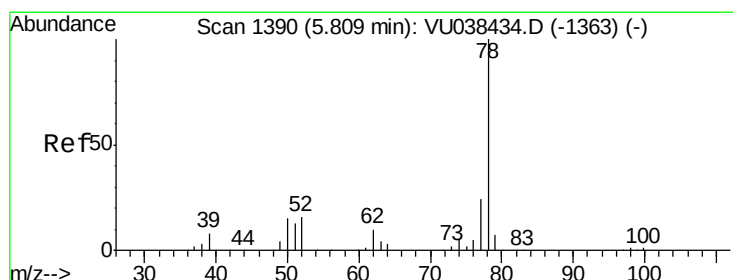
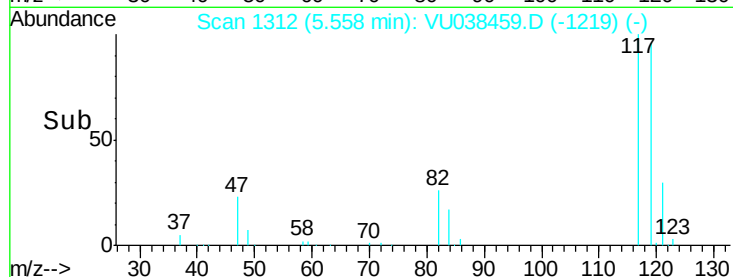
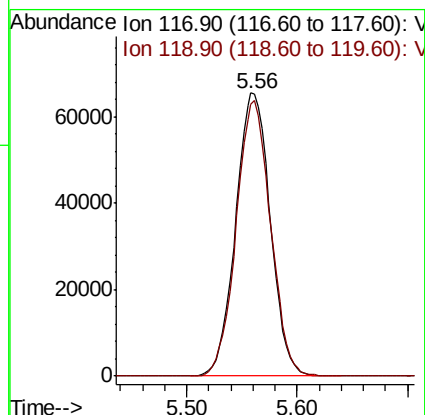
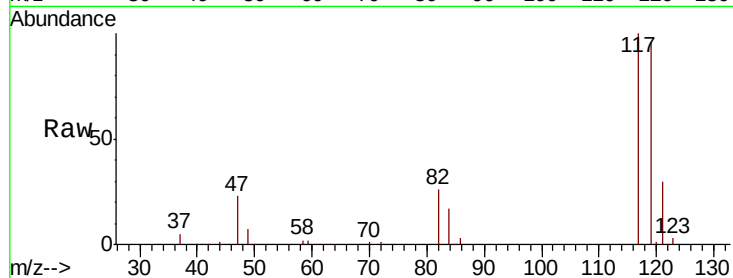
ClientSampleId :

Tot Ion:117 Resp: 142113

Ion Ratio Lower Upper

117 100

119 96.6 76.6 115.0



#33

Benzene

Concen: 4.611 ug/L

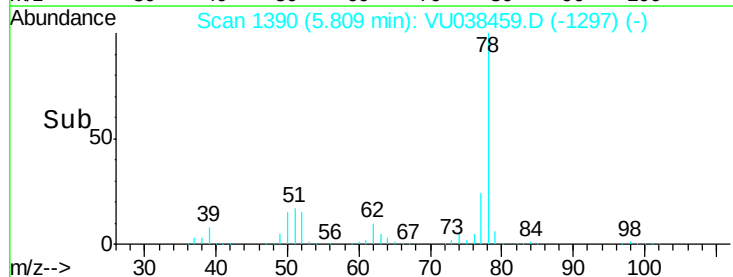
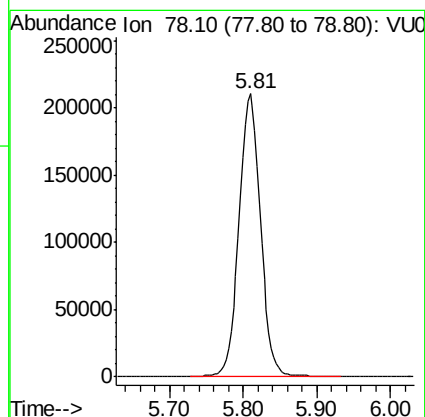
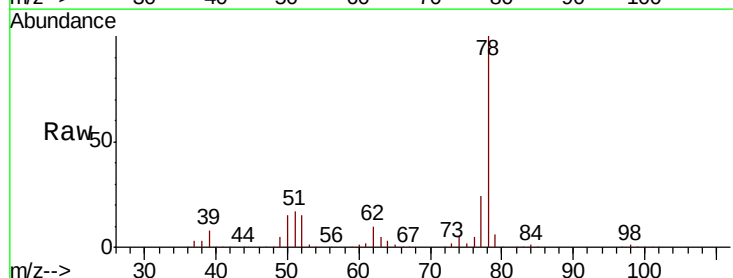
RT: 5.81 min Scan# 1390

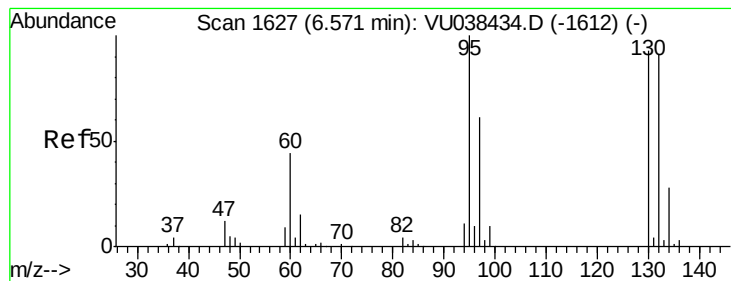
Delta R.T. -0.00 min

Lab File: VU038459.D

Acq: 01 Jun 2020 09:35

Tgt Ion: 78 Resp: 430696





#34

Trichloroethene

Concen: 4.569 ug/L

RT: 6.57 min Scan# 1627

Delta R.T. -0.00 min

Lab File: VU038459.D

Acq: 01 Jun 2020 09:35

Instrument :

MSVOA\_U

ClientSampleId :

Tot Ion: 95 Resp: 110755

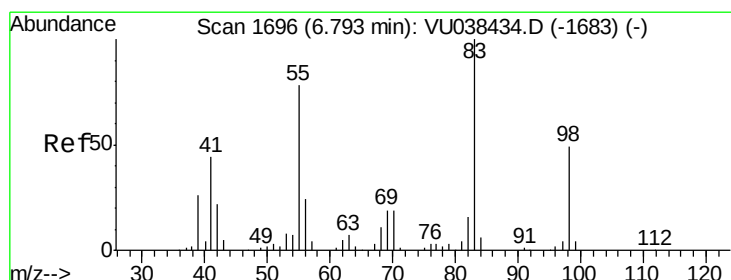
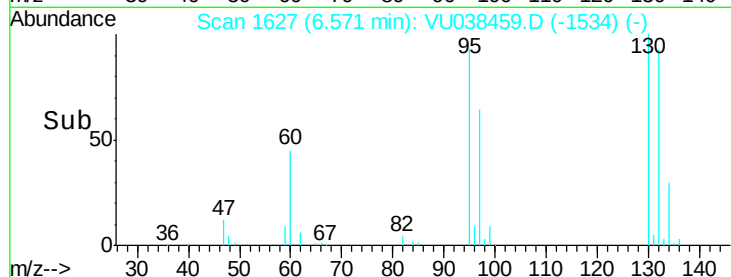
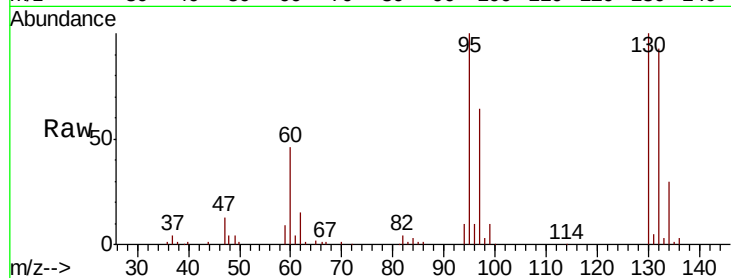
Ion Ratio Lower Upper

95 100

97 63.6 46.8 87.0

132 92.7 66.1 122.7

130 100.2 70.0 130.0



#35

Methylcyclohexane

Concen: 4.551 ug/L

RT: 6.79 min Scan# 1696

Delta R.T. -0.00 min

Lab File: VU038459.D

Acq: 01 Jun 2020 09:35

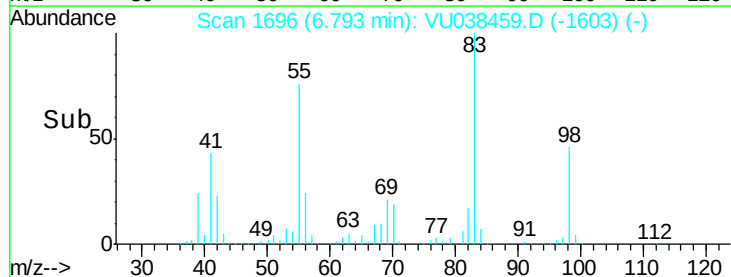
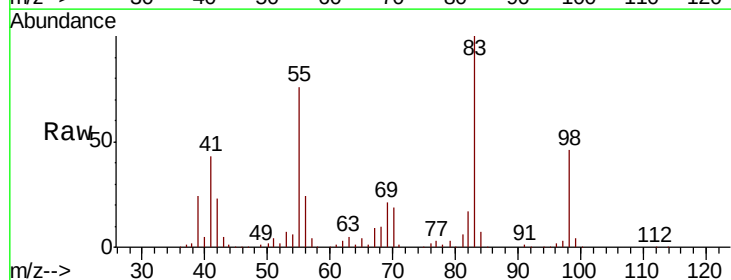
Tgt Ion: 83 Resp: 170818

Ion Ratio Lower Upper

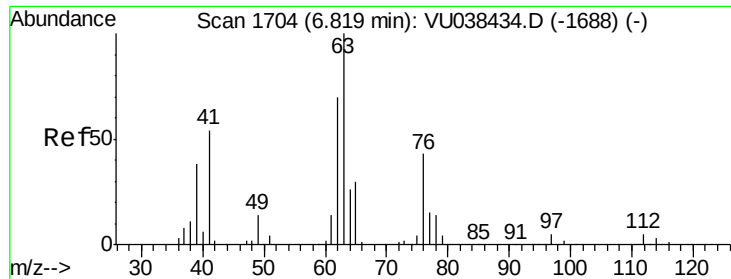
83 100

55 78.0 63.4 95.2

98 48.0 39.0 58.4



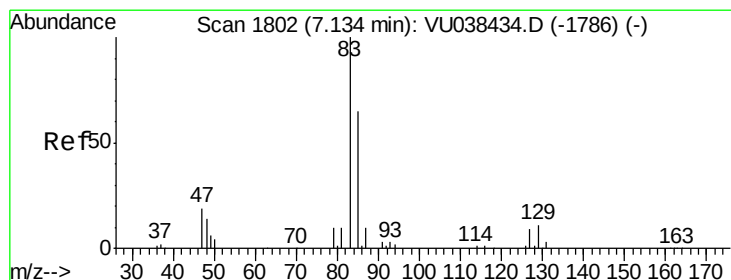
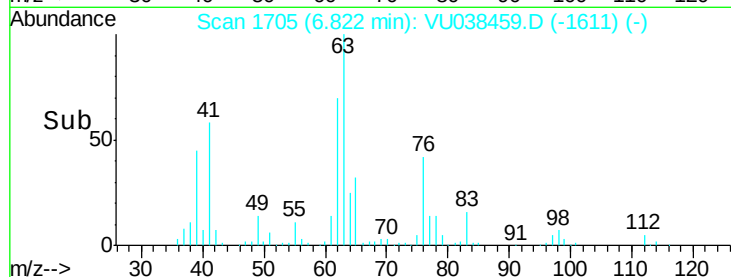
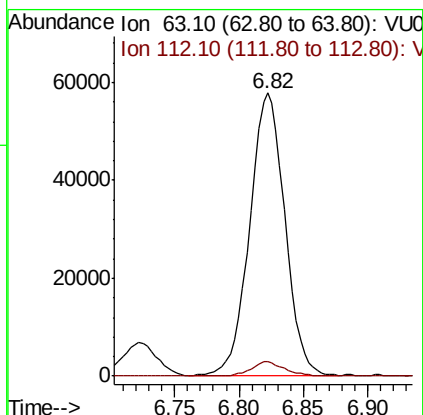
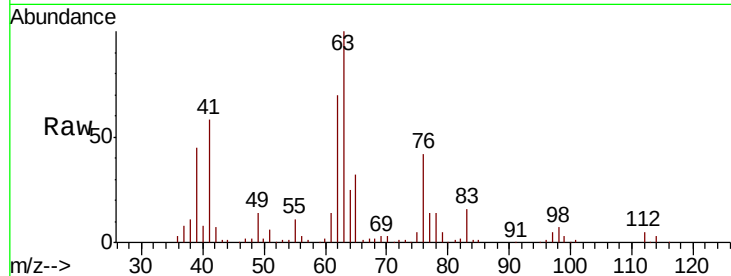




#37  
 1,2-Dichloropropane  
 Concen: 4.662 ug/L  
 RT: 6.82 min Scan# 1705  
 Delta R.T. 0.00 min  
 Lab File: VU038459.D  
 Acq: 01 Jun 2020 09:35

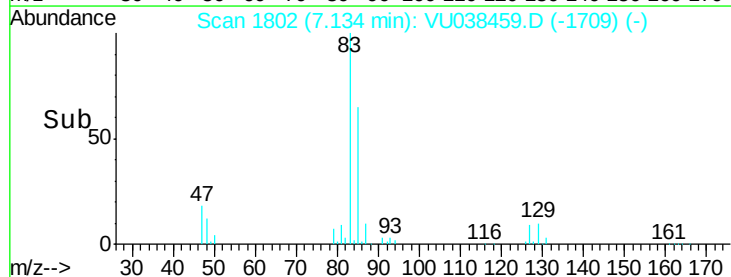
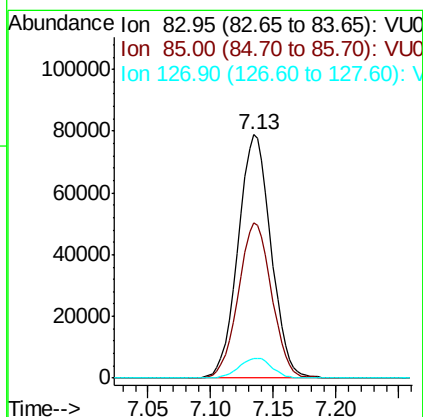
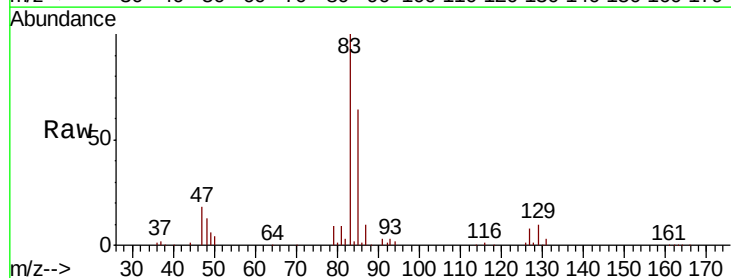
Instrument :  
 MSVOA\_U  
 ClientSampleId :

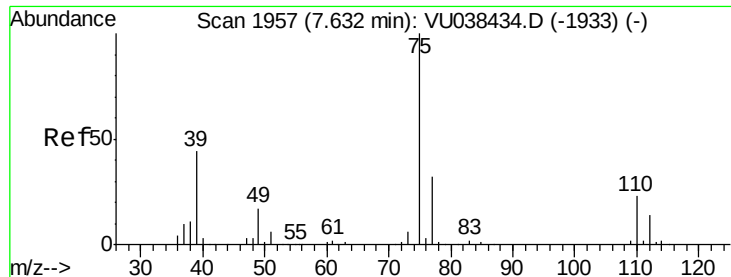
Tot Ion: 63 Resp: 109556  
 Ion Ratio Lower Upper  
 63 100  
 112 4.9 3.7 5.5



#38  
 Bromodichloromethane  
 Concen: 4.904 ug/L  
 RT: 7.13 min Scan# 1802  
 Delta R.T. -0.00 min  
 Lab File: VU038459.D  
 Acq: 01 Jun 2020 09:35

Tgt Ion: 83 Resp: 143135  
 Ion Ratio Lower Upper  
 83 100  
 85 63.6 44.7 83.1  
 127 8.3 6.8 10.2

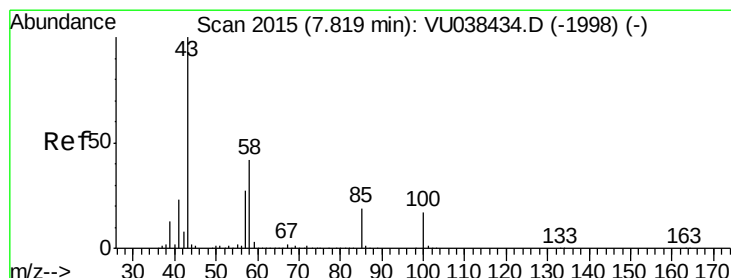
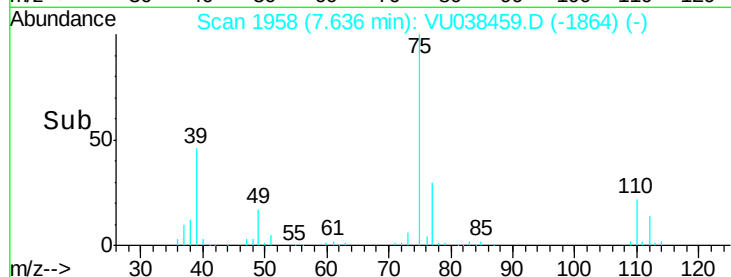
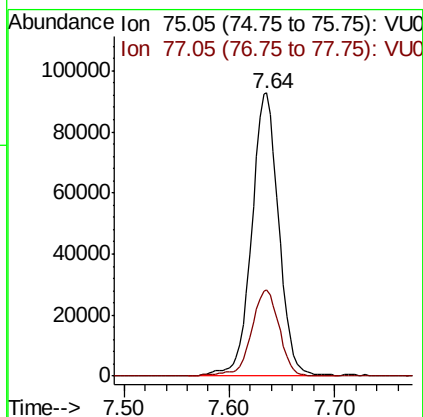
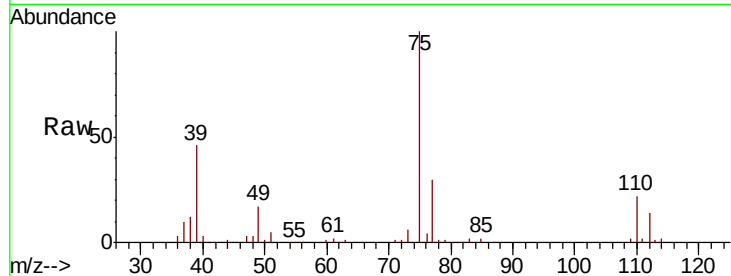




#39  
 cis-1,3-Dichloropropene  
 Concen: 4.783 ug/L  
 RT: 7.64 min Scan# 1958  
 Delta R.T. 0.00 min  
 Lab File: VU038459.D  
 Acq: 01 Jun 2020 09:35

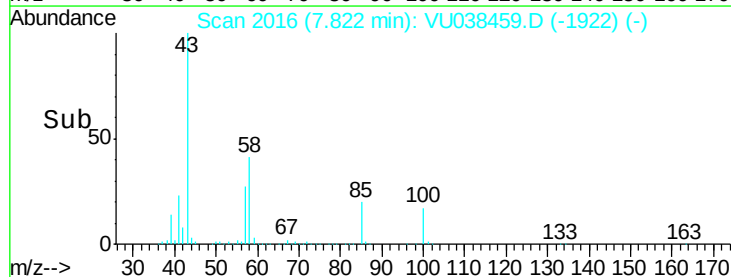
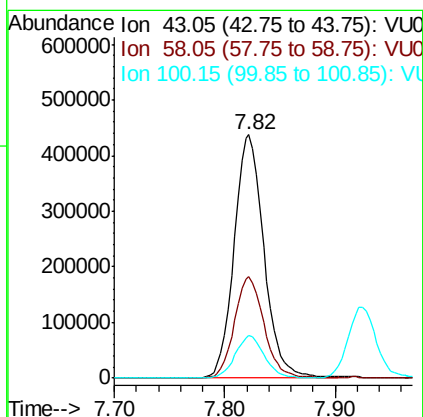
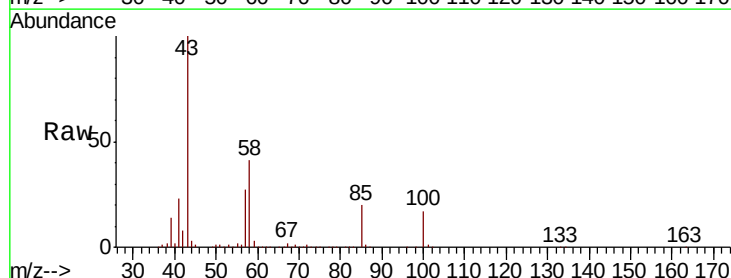
Instrument :  
 MSVOA\_U  
 ClientSampled :

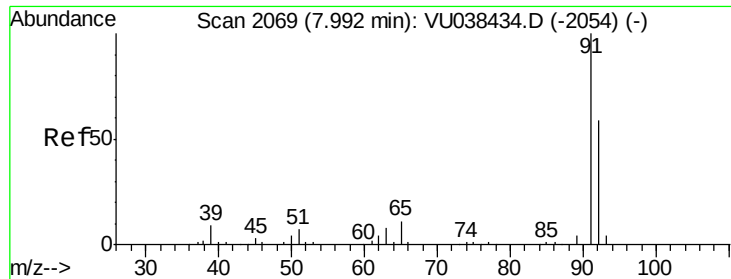
Tot Ion: 75 Resp: 166119  
 Ion Ratio Lower Upper  
 75 100  
 77 30.4 21.9 40.7



#40  
 4-Methyl-2-pentanone  
 Concen: 48.748 ug/L  
 RT: 7.82 min Scan# 2016  
 Delta R.T. 0.00 min  
 Lab File: VU038459.D  
 Acq: 01 Jun 2020 09:35

Tgt Ion: 43 Resp: 819344  
 Ion Ratio Lower Upper  
 43 100  
 58 41.4 32.4 48.6  
 100 17.1 13.3 19.9





#42

Toluene

Concen: 4.653 ug/L

RT: 8.00 min Scan# 2070

Delta R.T. 0.00 min

Lab File: VU038459.D

Acq: 01 Jun 2020 09:35

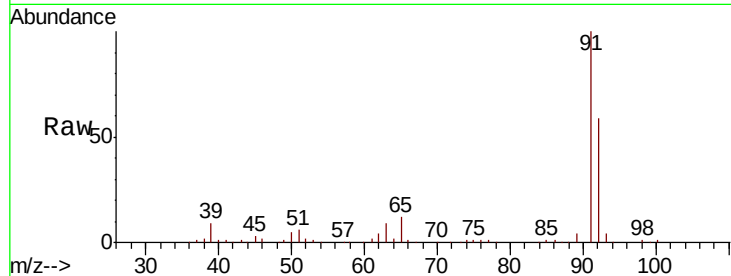
Instrument :  
MSVOA\_U  
ClientSampled :

Tot Ion: 91 Resp: 455794

Ion Ratio Lower Upper

91 100

92 59.2 43.0 79.8



Abundance Ion 91.15 (90.85 to 91.85): VU038434.D (-2054) (-)

Ion 92.15 (91.85 to 92.85): VU038434.D (-2054) (-)

8.00

250000

200000

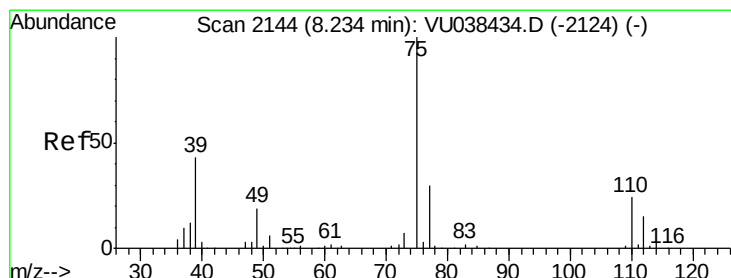
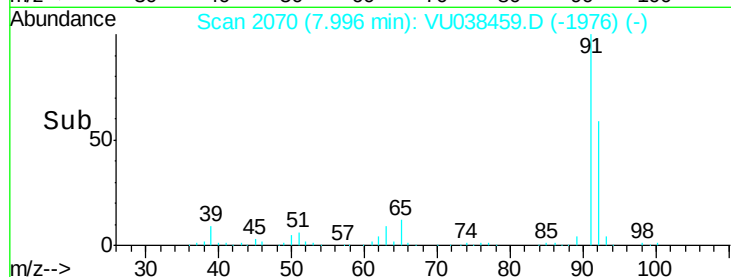
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 4.826 ug/L

RT: 8.24 min Scan# 2145

Delta R.T. 0.00 min

Lab File: VU038459.D

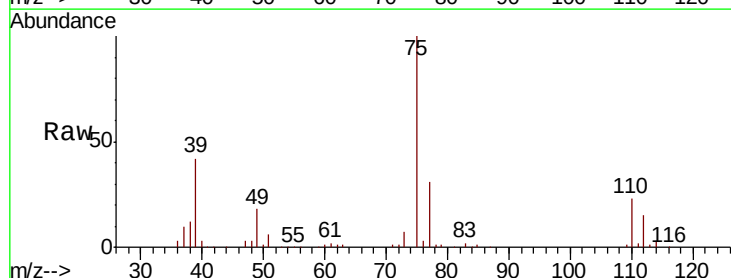
Acq: 01 Jun 2020 09:35

Tgt Ion: 75 Resp: 148038

Ion Ratio Lower Upper

75 100

77 30.6 22.1 41.1



Abundance Ion 75.05 (74.75 to 75.75): VU038434.D (-2124) (-)

Ion 77.05 (76.75 to 77.75): VU038434.D (-2124) (-)

8.24

100000

80000

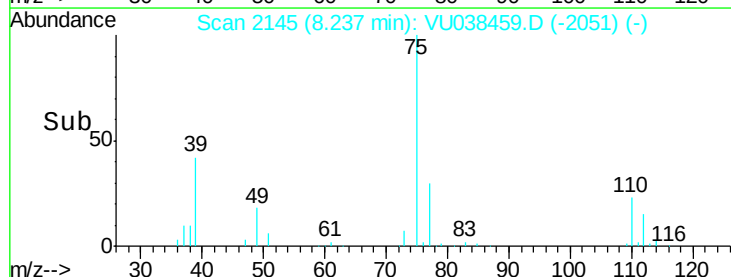
60000

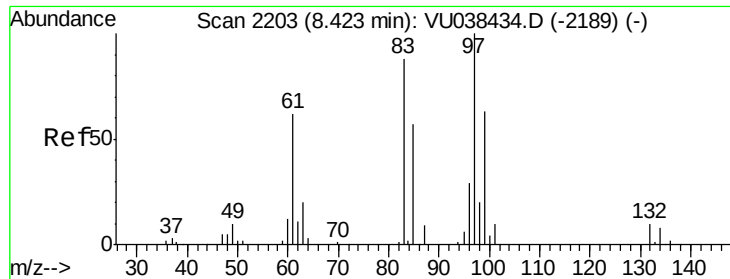
40000

20000

0

Time-->

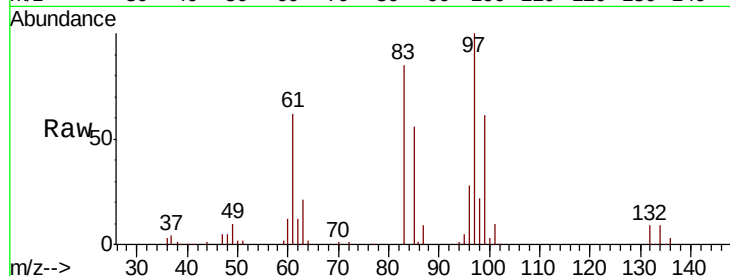




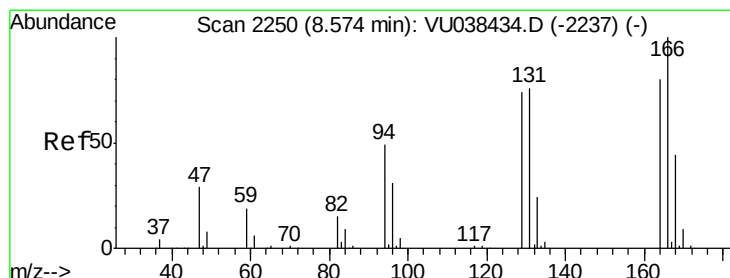
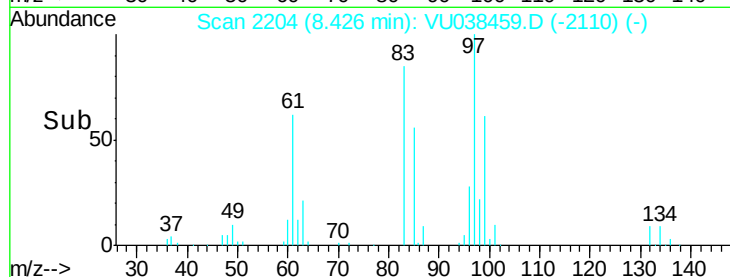
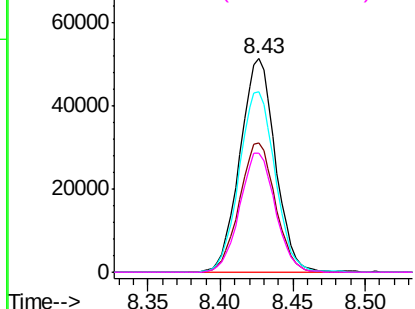
#45  
 1,1,2-Trichloroethane  
 Concen: 4.919 ug/L  
 RT: 8.43 min Scan# 2204  
 Delta R.T. 0.00 min  
 Lab File: VU038459.D  
 Acq: 01 Jun 2020 09:35

Instrument :  
 MSVOA\_U  
 ClientSampleId :

| Tot Ion: | 97    | Resp: | 87223 |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 60.8  | 42.1  | 78.1  |
| 83       | 84.6  | 58.8  | 109.2 |
| 85       | 56.0  | 37.4  | 69.4  |

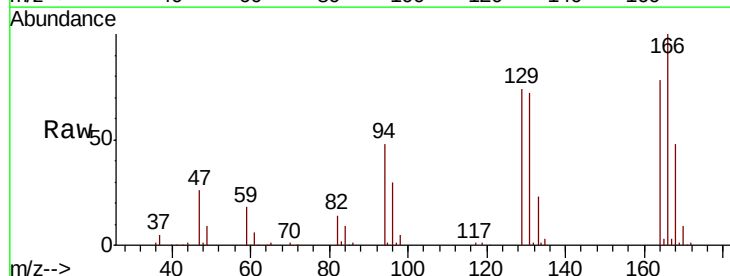


Abundance Ion 96.95 (96.65 to 97.65): VU0  
 Ion 99.05 (98.75 to 99.75): VU0  
 Ion 82.95 (82.65 to 83.65): VU0  
 Ion 85.00 (84.70 to 85.70): VU0

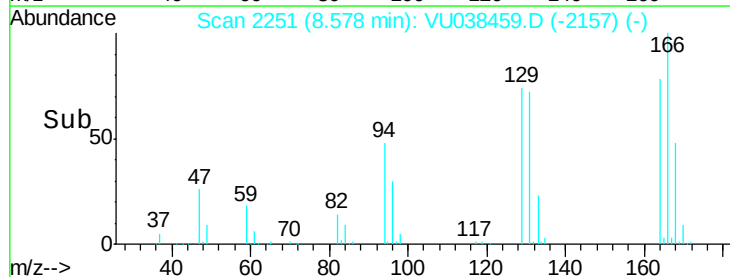
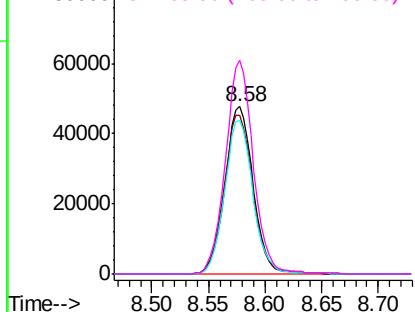


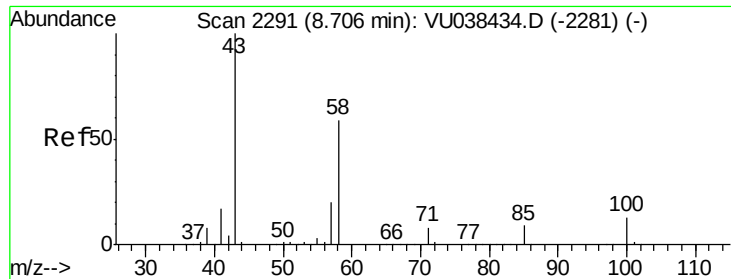
#47  
 Tetrachloroethene  
 Concen: 4.692 ug/L  
 RT: 8.58 min Scan# 2251  
 Delta R.T. 0.00 min  
 Lab File: VU038459.D  
 Acq: 01 Jun 2020 09:35

| Tgt Ion: | 164   | Resp: | 82628 |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 94.4  | 67.4  | 125.2 |
| 131      | 92.0  | 64.1  | 119.1 |
| 166      | 127.5 | 85.7  | 159.1 |



Abundance Ion 163.90 (163.60 to 164.60): V  
 Ion 128.95 (128.65 to 129.65): V  
 Ion 130.95 (130.65 to 131.65): V  
 Ion 165.90 (165.60 to 166.60): V

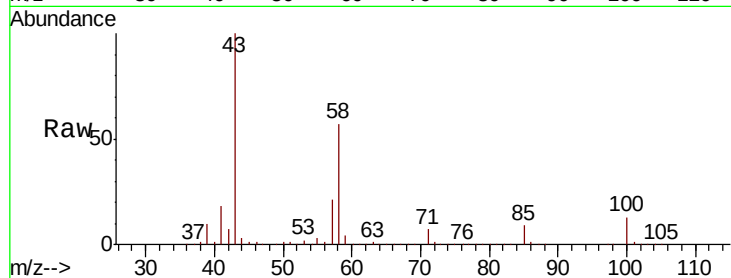




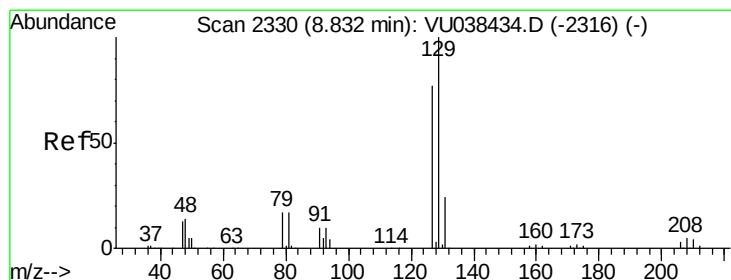
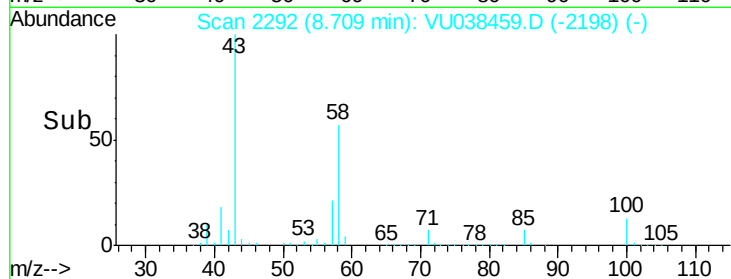
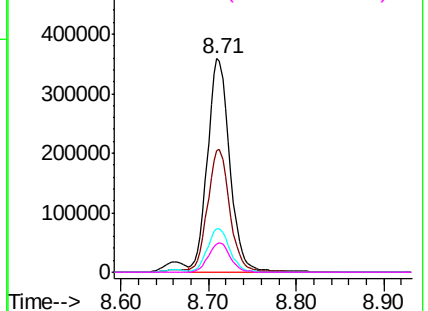
#48  
2-Hexanone  
Concen: 49.804 ug/L  
RT: 8.71 min Scan# 2292  
Delta R.T. 0.00 min  
Lab File: VU038459.D  
Acq: 01 Jun 2020 09:35

Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 43 Resp: 633936  
Ion Ratio Lower Upper  
43 100  
58 57.7 45.4 68.0  
57 20.7 15.9 23.9  
100 13.5 10.5 15.7

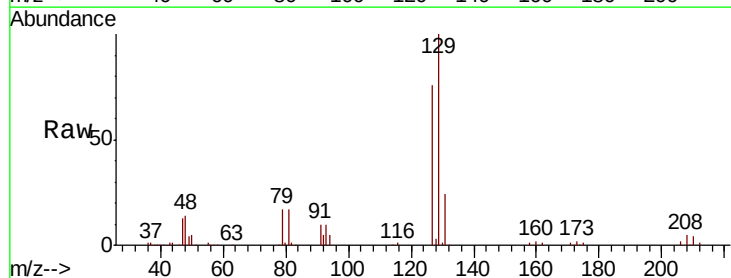


Abundance Ion 43.05 (42.75 to 43.75): VU0  
Ion 58.05 (57.75 to 58.75): VU0  
Ion 57.20 (56.90 to 57.90): VU0  
Ion 100.15 (99.85 to 100.85): VU0

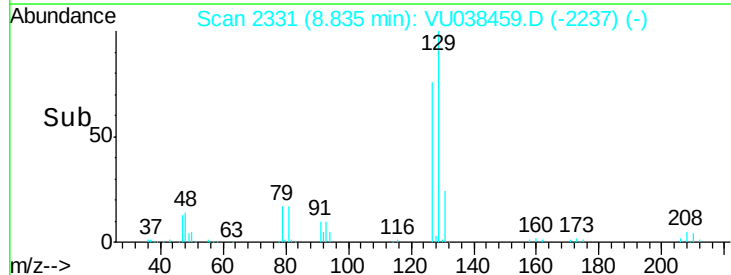
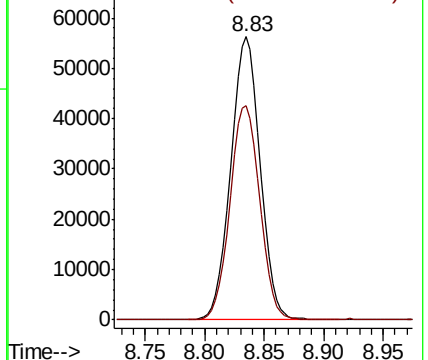


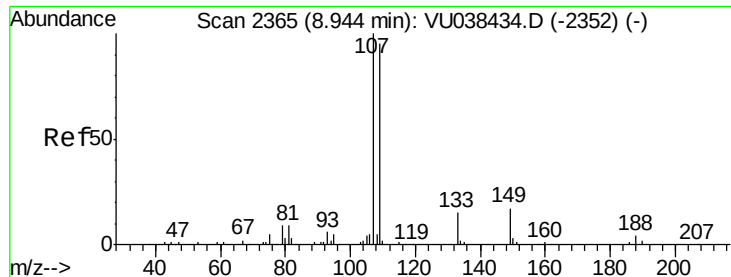
#49  
Dibromochloromethane  
Concen: 5.039 ug/L  
RT: 8.83 min Scan# 2331  
Delta R.T. 0.00 min  
Lab File: VU038459.D  
Acq: 01 Jun 2020 09:35

Tgt Ion: 129 Resp: 96429  
Ion Ratio Lower Upper  
129 100  
127 75.6 53.3 99.1



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





#50

1,2-Dibromoethane

Concen: 4.856 ug/L

RT: 8.95 min Scan# 2366

Delta R.T. 0.00 min

Lab File: VU038459.D

Acq: 01 Jun 2020 09:35

Instrument :

MSVOA\_U

ClientSampleId :

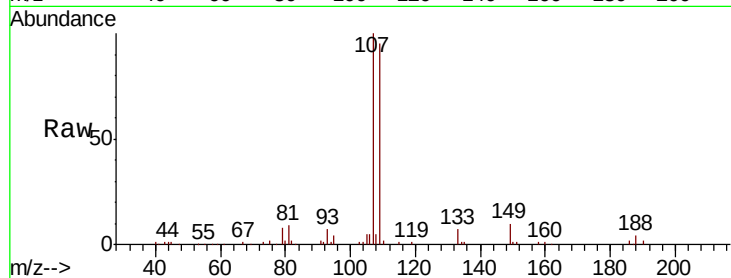
Tot Ion:107 Resp: 82448

Ion Ratio Lower Upper

107 100

109 95.2 67.0 124.4

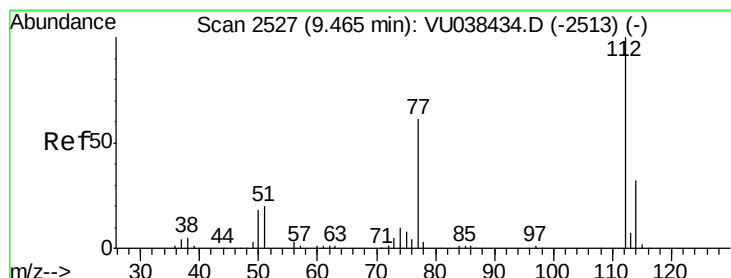
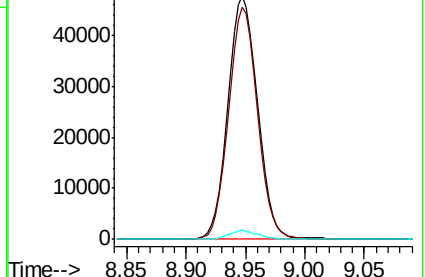
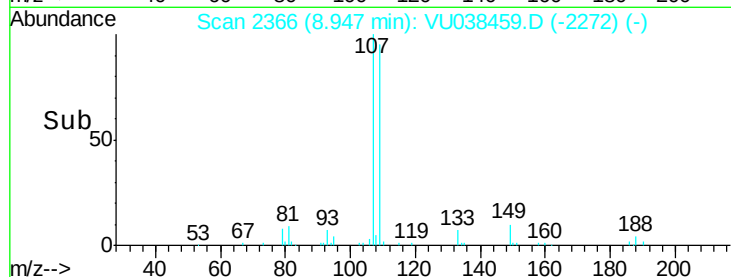
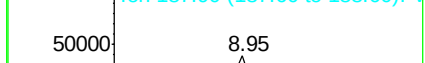
188 3.6 3.0 4.4



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: 4.601 ug/L

RT: 9.47 min Scan# 2528

Delta R.T. 0.00 min

Lab File: VU038459.D

Acq: 01 Jun 2020 09:35

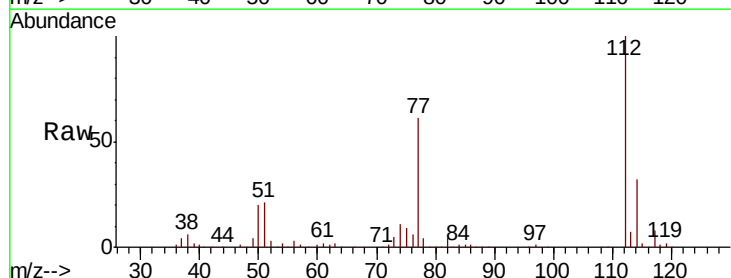
Tgt Ion:112 Resp: 290671

Ion Ratio Lower Upper

112 100

114 31.7 22.4 41.6

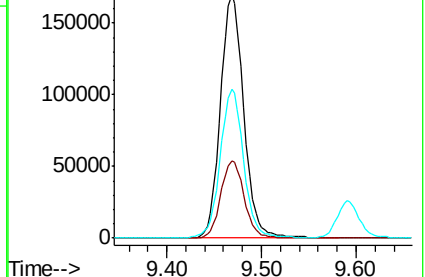
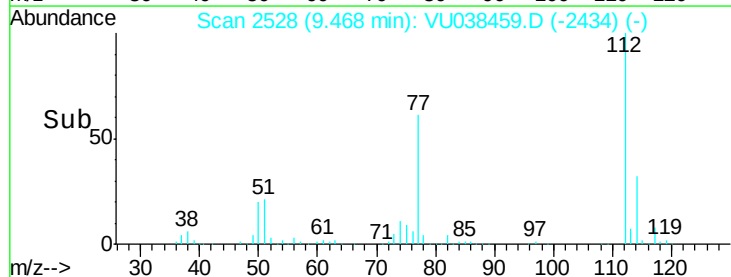
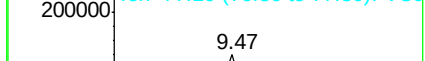
77 61.1 47.1 70.7

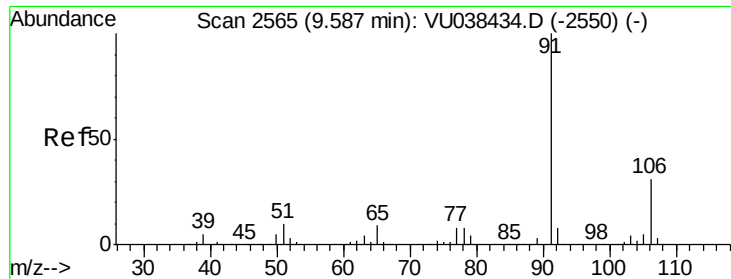


Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VU0





#52

Ethylbenzene

Concen: 4.565 ug/L

RT: 9.59 min Scan# 2566

Delta R.T. 0.00 min

Lab File: VU038459.D

Acq: 01 Jun 2020 09:35

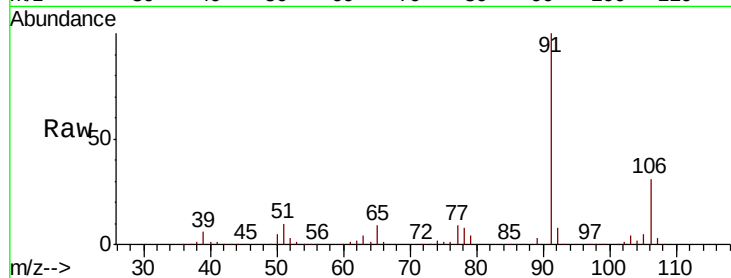
Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 91 Resp: 497493

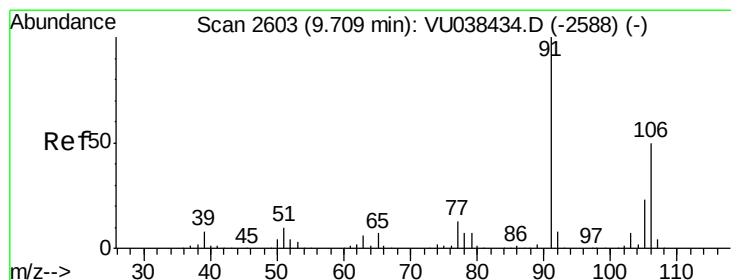
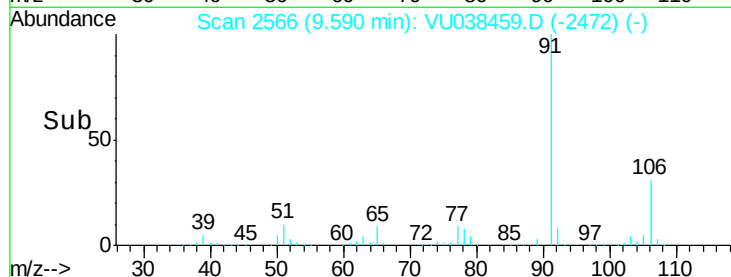
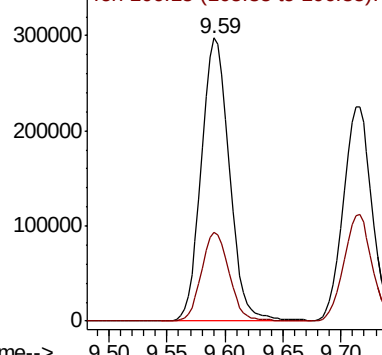
Ion Ratio Lower Upper

91 100

106 31.3 21.7 40.3



Abundance Ion 91.15 (90.85 to 91.85): VU038434.D (-2550) (-)



#53

m,p-Xylene

Concen: 4.617 ug/L

RT: 9.72 min Scan# 2605

Delta R.T. 0.01 min

Lab File: VU038459.D

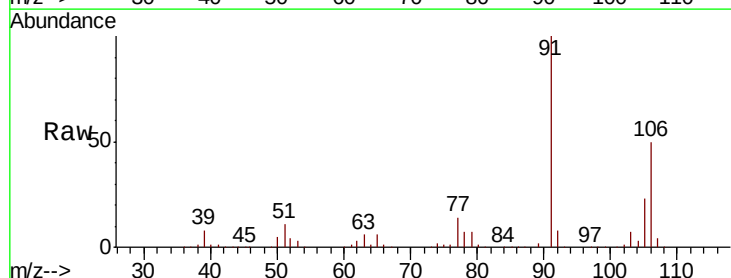
Acq: 01 Jun 2020 09:35

Tgt Ion: 106 Resp: 193505

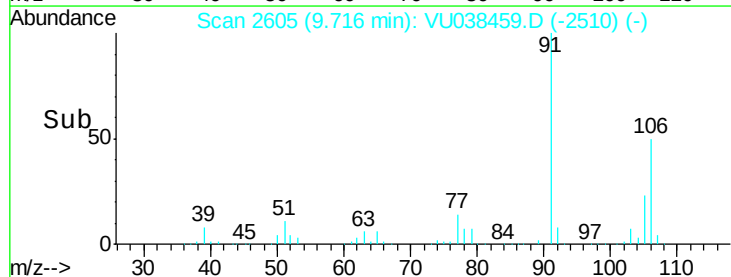
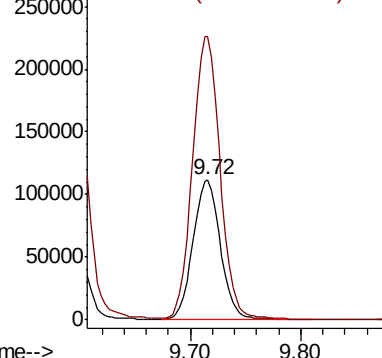
Ion Ratio Lower Upper

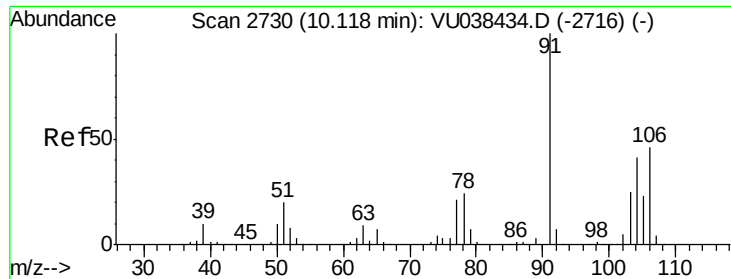
106 100

91 201.7 138.1 256.5



Abundance Ion 106.15 (105.85 to 106.85): VU038434.D (-2588) (-)

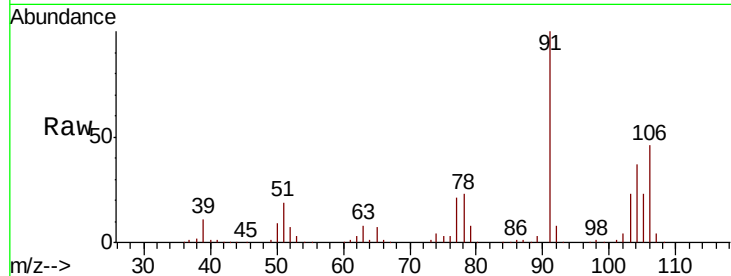




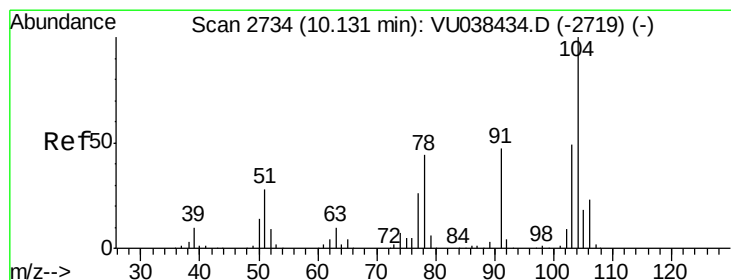
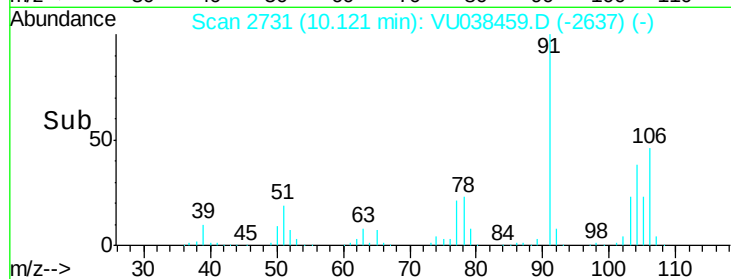
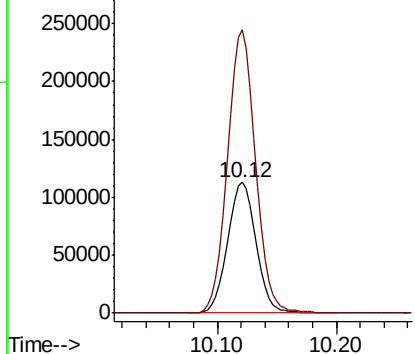
#54  
o-Xylene  
Concen: 4.648 ug/L  
RT: 10.12 min Scan# 2731  
Delta R.T. 0.00 min  
Lab File: VU038459.D  
Acq: 01 Jun 2020 09:35

Instrument :  
MSVOA\_U  
ClientSampled :

Tot Ion:106 Resp: 187010  
Ion Ratio Lower Upper  
106 100  
91 216.2 150.6 279.8

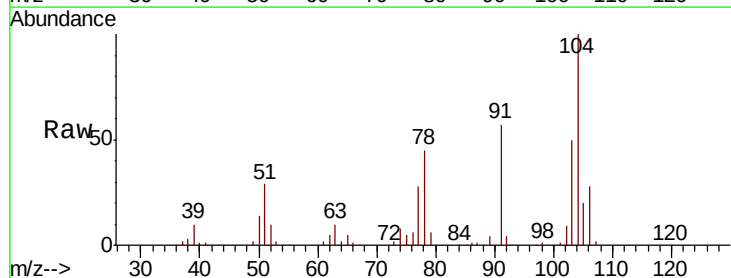


Abundance Ion 106.15 (105.85 to 106.85): V  
Ion 91.15 (90.85 to 91.85): VU0

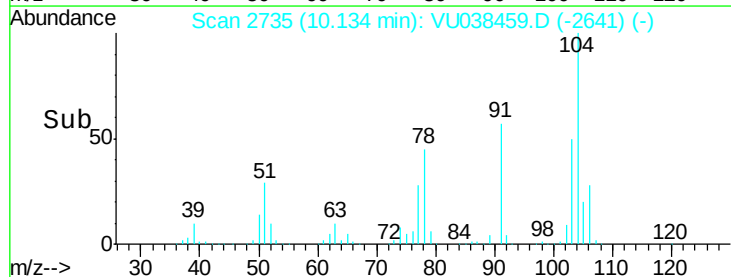
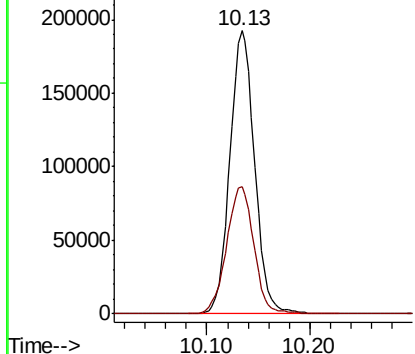


#55  
Styrene  
Concen: 4.709 ug/L  
RT: 10.13 min Scan# 2735  
Delta R.T. 0.00 min  
Lab File: VU038459.D  
Acq: 01 Jun 2020 09:35

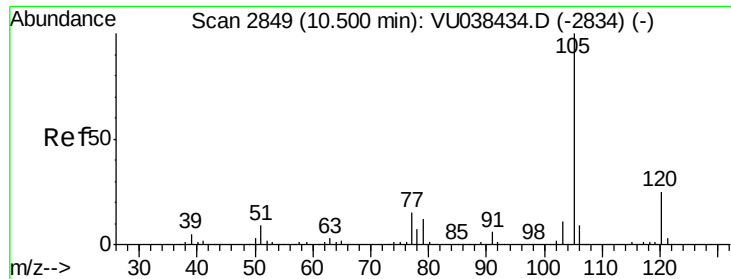
Tgt Ion:104 Resp: 321664  
Ion Ratio Lower Upper  
104 100  
78 45.0 31.9 59.3



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







#56

Isopropylbenzene

Concen: 4.692 ug/L

RT: 10.50 min Scan# 2850

Delta R.T. 0.00 min

Lab File: VU038459.D

Acq: 01 Jun 2020 09:35

Instrument :

MSVOA\_U

ClientSampleId :

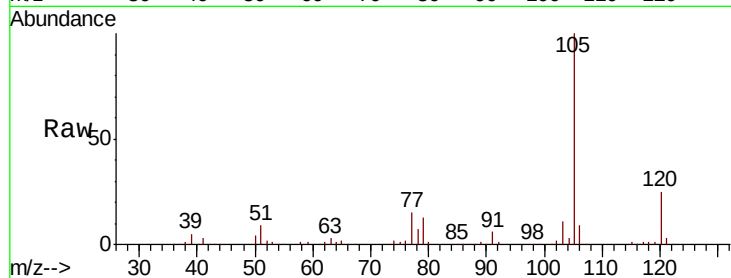
Tot Ion:105 Resp: 496911

Ion Ratio Lower Upper

105 100

120 25.5 20.7 31.1

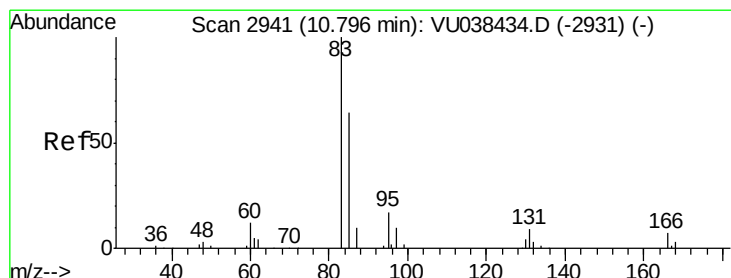
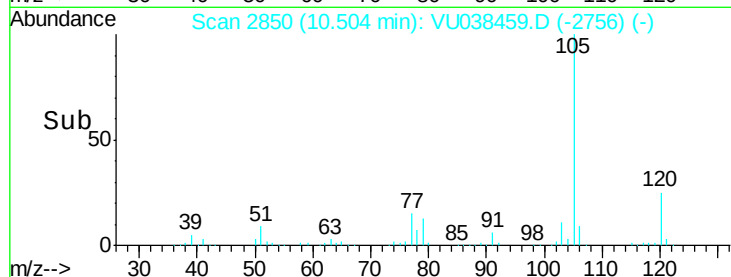
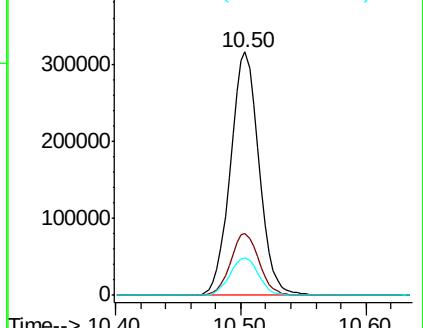
77 15.8 12.5 18.7



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: 4.821 ug/L

RT: 10.80 min Scan# 2942

Delta R.T. 0.00 min

Lab File: VU038459.D

Acq: 01 Jun 2020 09:35

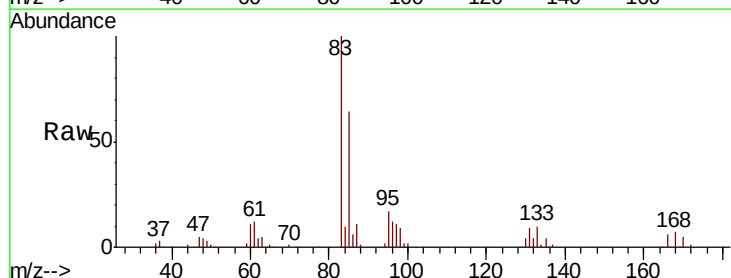
Tgt Ion: 83 Resp: 108629

Ion Ratio Lower Upper

83 100

85 64.5 44.2 82.0

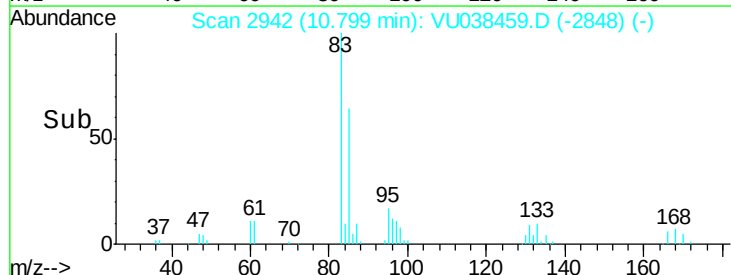
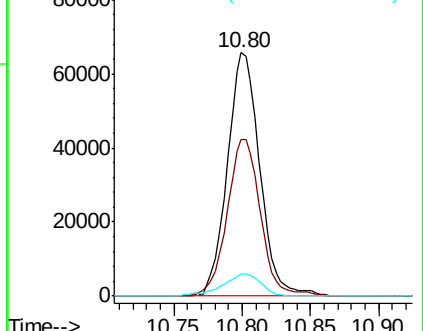
131 9.2 8.1 12.1

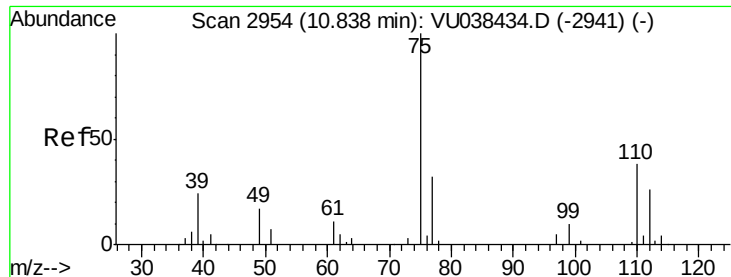


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 4.894 ug/L

RT: 10.84 min Scan# 2955

Delta R.T. 0.00 min

Lab File: VU038459.D

Acq: 01 Jun 2020 09:35

Instrument :

MSVOA\_U

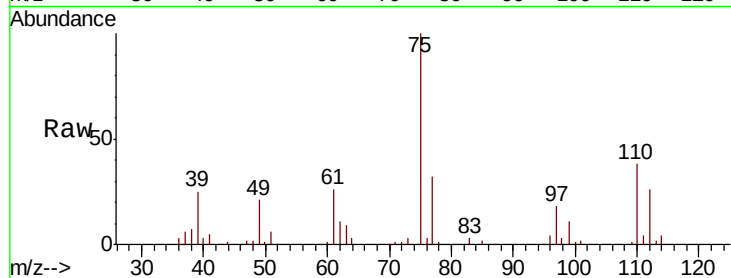
ClientSampleId :

Tot Ion: 75 Resp: 85854

Ion Ratio Lower Upper

75 100

77 31.7 25.4 38.2



Abundance Ion 75.00 (74.70 to 75.70): VU038434.D (-2941) (-)

Ion 77.00 (76.70 to 77.70): VU038434.D (-2941) (-)

10.84

60000

50000

40000

30000

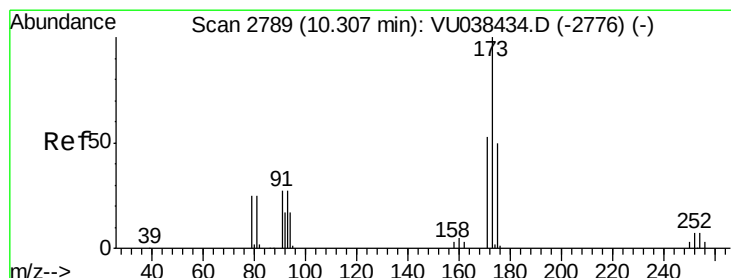
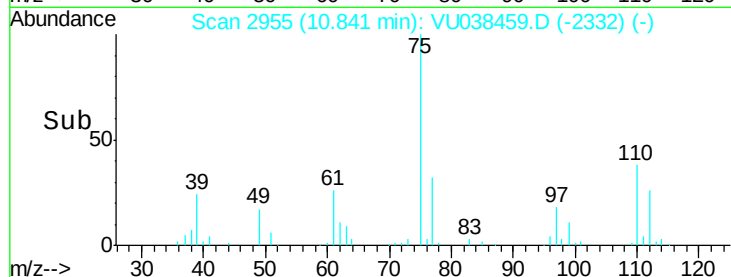
20000

10000

0

Time-->

10.80 10.85 10.90



#61

Bromoform

Concen: 5.030 ug/L

RT: 10.31 min Scan# 2790

Delta R.T. 0.00 min

Lab File: VU038459.D

Acq: 01 Jun 2020 09:35

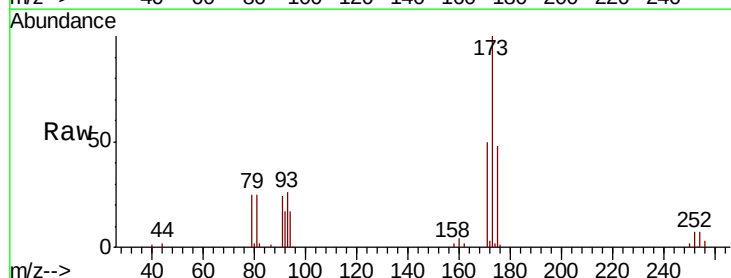
Tgt Ion: 173 Resp: 52663

Ion Ratio Lower Upper

173 100

175 48.8 38.7 58.1

254 6.8 5.4 8.2



Abundance Ion 172.90 (172.60 to 173.60): VU038434.D (-2776) (-)

Ion 174.90 (174.60 to 175.60): VU038434.D (-2776) (-)

Ion 253.75 (253.45 to 254.45): VU038434.D (-2776) (-)

10.31

40000

30000

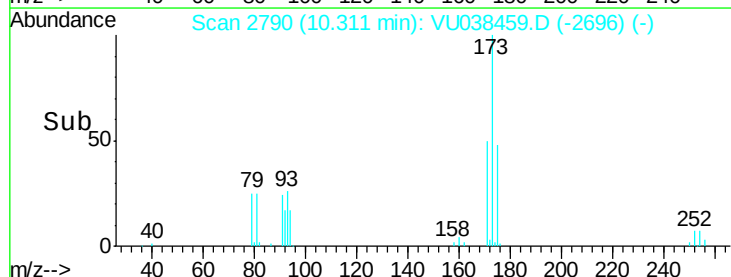
20000

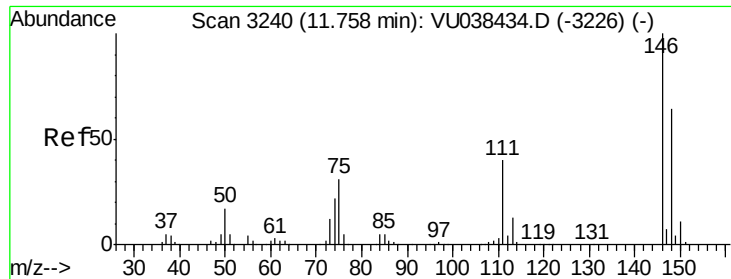
10000

0

Time-->

10.25 10.30 10.35 10.40

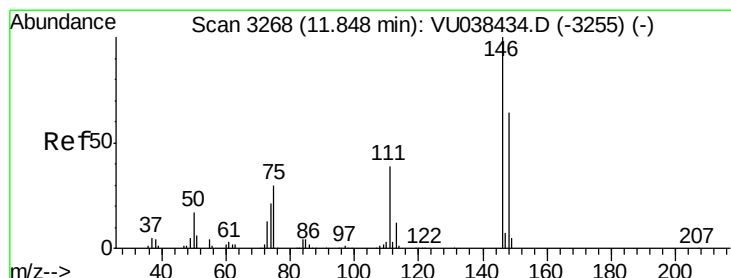
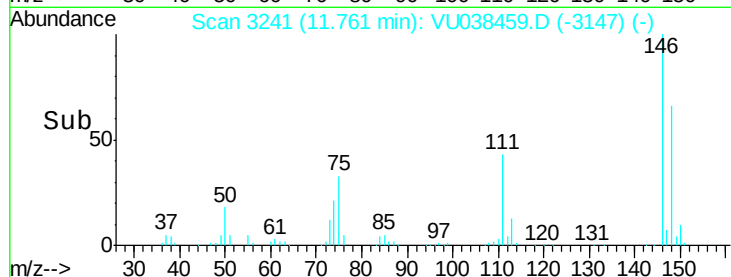
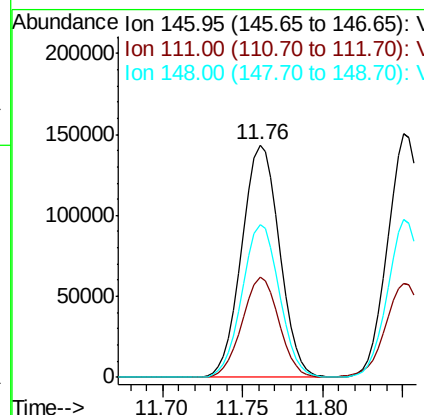
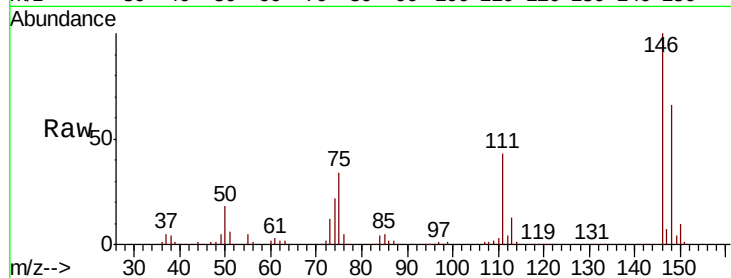




#62  
 1,3-Dichlorobenzene  
 Concen: 4.673 ug/L  
 RT: 11.76 min Scan# 3241  
 Delta R.T. 0.00 min  
 Lab File: VU038459.D  
 Acq: 01 Jun 2020 09:35

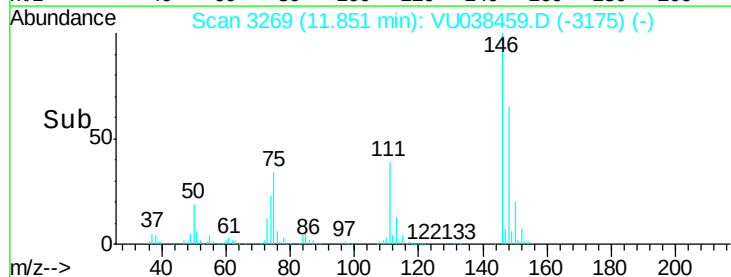
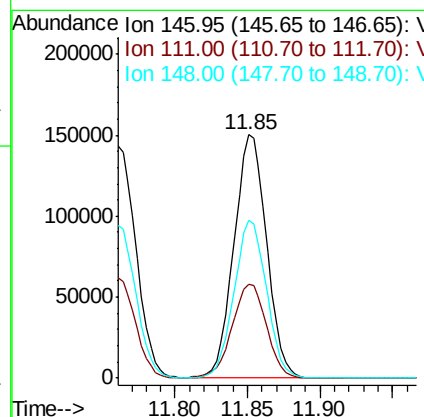
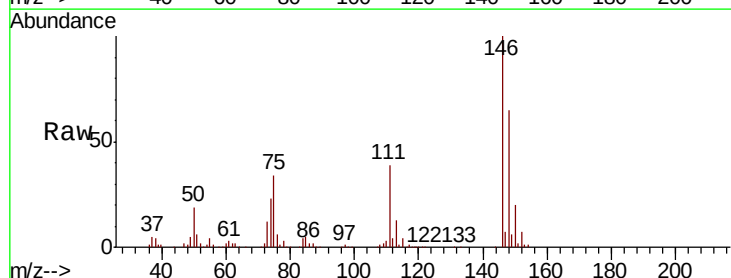
Instrument :  
 MSVOA\_U  
 ClientSampleId :

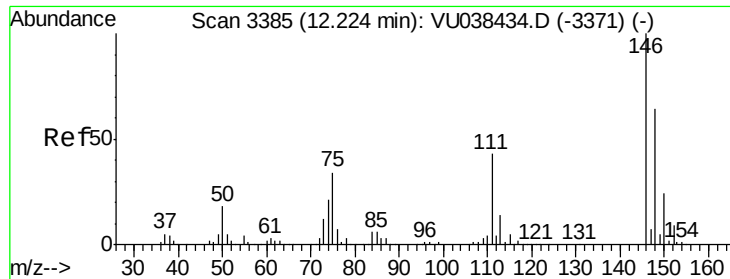
Tot Ion:146 Resp: 230736  
 Ion Ratio Lower Upper  
 146 100  
 111 42.9 29.5 54.9  
 148 66.0 45.6 84.6



#63  
 1,4-Dichlorobenzene  
 Concen: 4.689 ug/L  
 RT: 11.85 min Scan# 3269  
 Delta R.T. 0.00 min  
 Lab File: VU038459.D  
 Acq: 01 Jun 2020 09:35

Tgt Ion:146 Resp: 234812  
 Ion Ratio Lower Upper  
 146 100  
 111 38.7 27.6 51.2  
 148 65.0 44.8 83.2

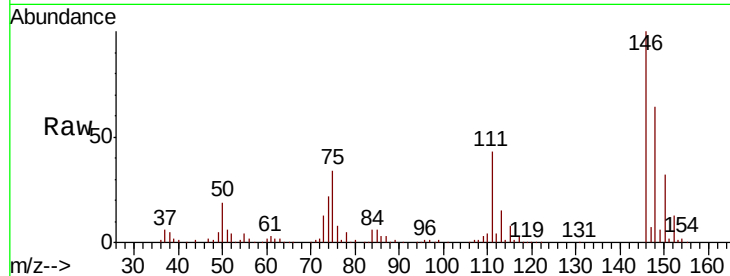




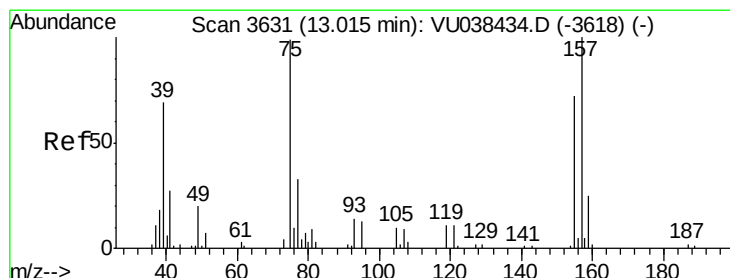
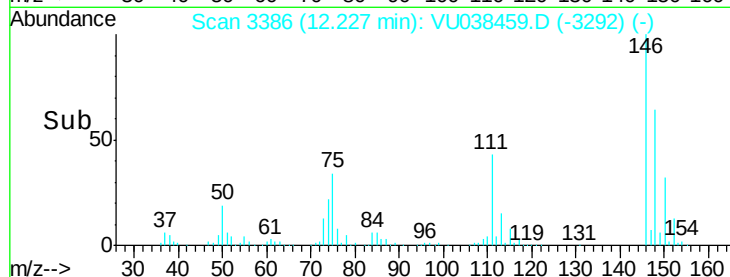
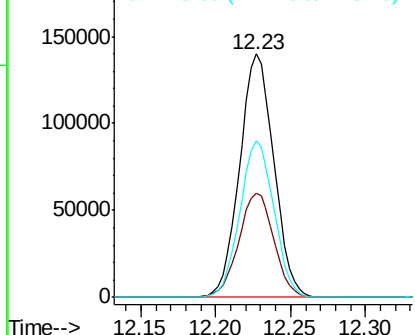
#65  
 1,2-Dichlorobenzene  
 Concen: 4.750 ug/L  
 RT: 12.23 min Scan# 3386  
 Delta R.T. 0.00 min  
 Lab File: VU038459.D  
 Acq: 01 Jun 2020 09:35

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Tot Ion:146 Resp: 222730  
 Ion Ratio Lower Upper  
 146 100  
 111 43.0 35.1 52.7  
 148 64.1 50.9 76.3

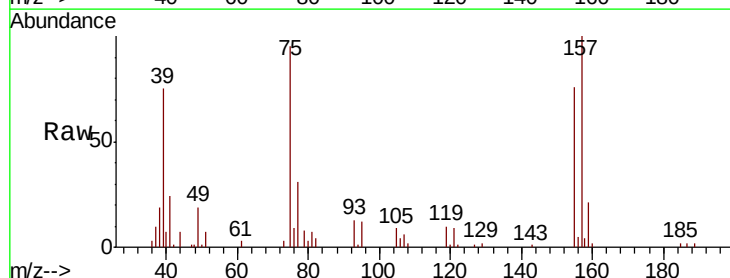


Abundance Ion 145.95 (145.65 to 146.65): V  
 Ion 111.00 (110.70 to 111.70): V  
 Ion 148.00 (147.70 to 148.70): V

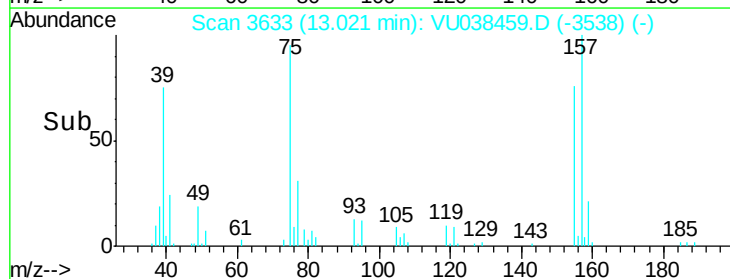
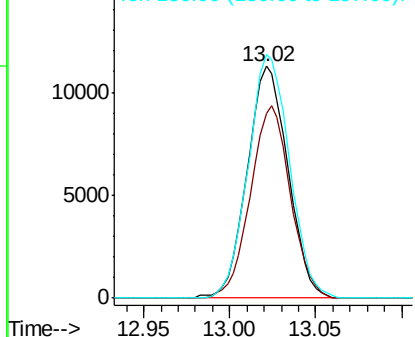


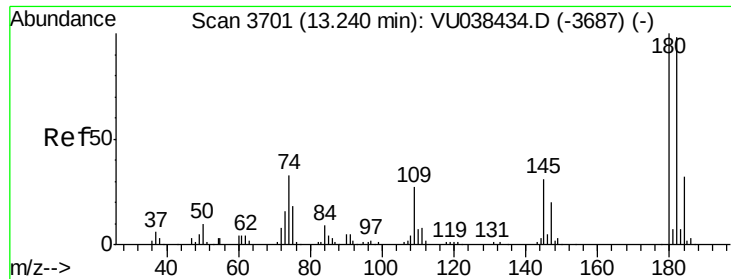
#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 4.881 ug/L  
 RT: 13.02 min Scan# 3633  
 Delta R.T. 0.01 min  
 Lab File: VU038459.D  
 Acq: 01 Jun 2020 09:35

Tgt Ion: 75 Resp: 18529  
 Ion Ratio Lower Upper  
 75 100  
 155 79.7 59.6 89.4  
 157 105.2 79.8 119.6



Abundance Ion 75.05 (74.75 to 75.75): VUO  
 Ion 154.95 (154.65 to 155.65): V  
 Ion 156.90 (156.60 to 157.60): V

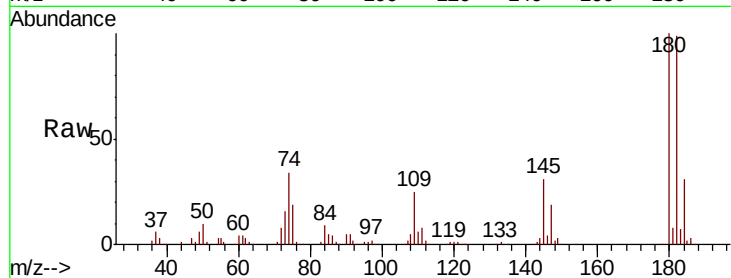




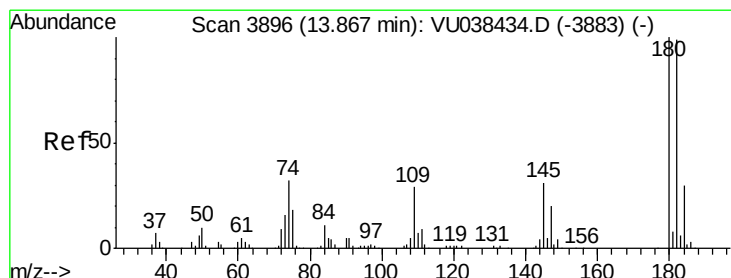
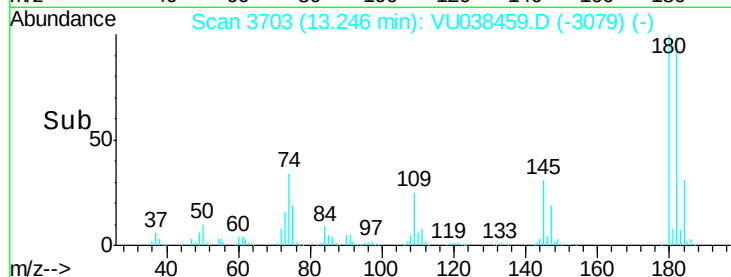
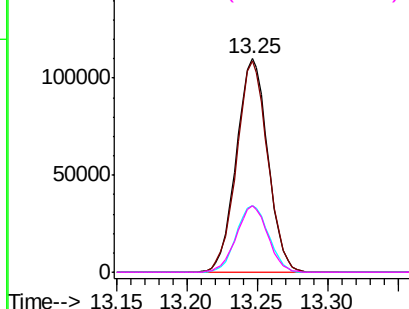
#67  
 1,3,5-Trichlorobenzene  
 Concen: 4.673 ug/L  
 RT: 13.25 min Scan# 3703  
 Delta R.T. 0.01 min  
 Lab File: VU038459.D  
 Acq: 01 Jun 2020 09:35

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Tot Ion:180 Resp: 172149  
 Ion Ratio Lower Upper  
 180 100  
 182 97.1 76.8 115.2  
 184 31.8 25.1 37.7  
 145 30.9 24.6 37.0

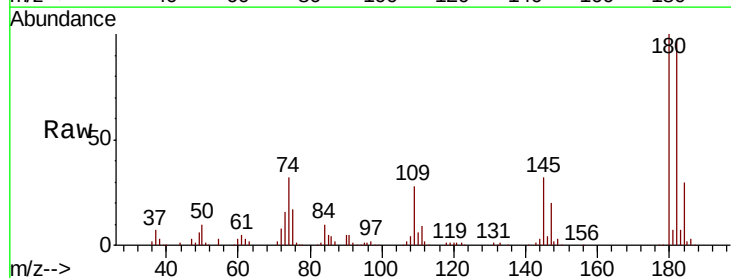


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

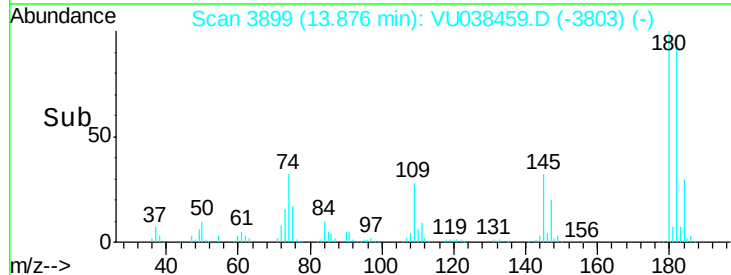
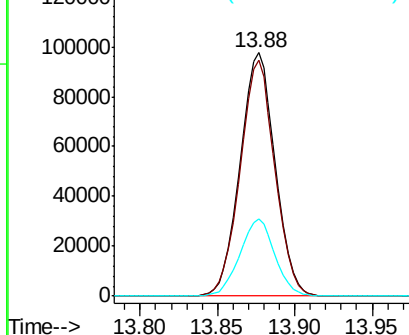


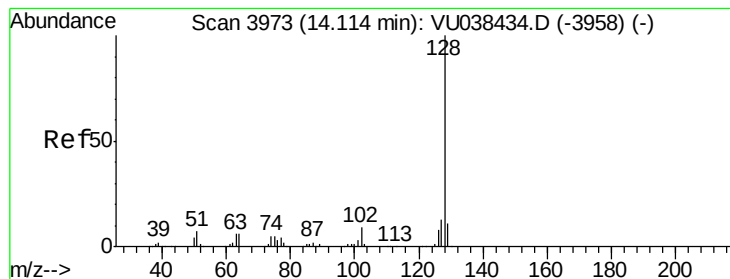
#68  
 1,2,4-trichlorobenzene  
 Concen: 4.511 ug/L  
 RT: 13.88 min Scan# 3899  
 Delta R.T. 0.01 min  
 Lab File: VU038459.D  
 Acq: 01 Jun 2020 09:35

Tgt Ion:180 Resp: 153815  
 Ion Ratio Lower Upper  
 180 100  
 182 95.9 75.8 113.8  
 145 31.5 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: 4.592 ug/L

RT: 14.12 min Scan# 3976

Delta R.T. 0.01 min

Lab File: VU038459.D

Acq: 01 Jun 2020 09:35

Instrument :

MSVOA\_U

ClientSampleId :

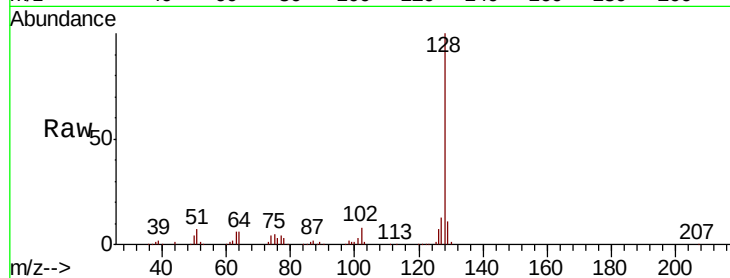
Tot Ion:128 Resp: 311636

Ion Ratio Lower Upper

128 100

129 10.8 8.9 13.3

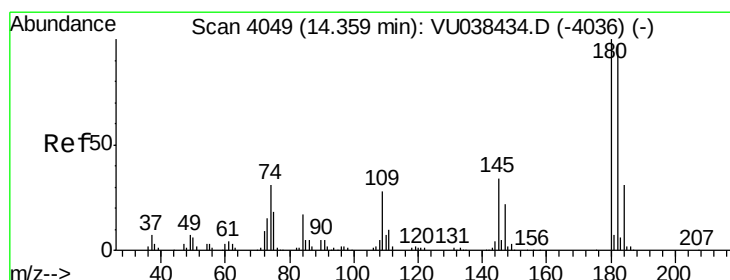
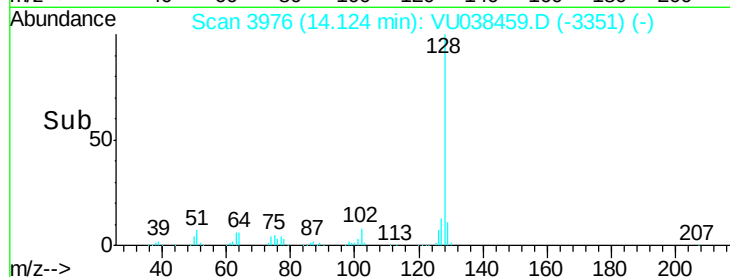
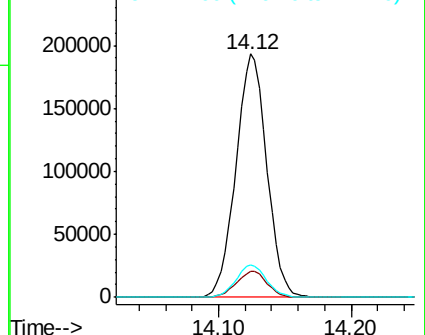
127 13.3 10.2 15.4



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: 4.602 ug/L

RT: 14.37 min Scan# 4053

Delta R.T. 0.01 min

Lab File: VU038459.D

Acq: 01 Jun 2020 09:35

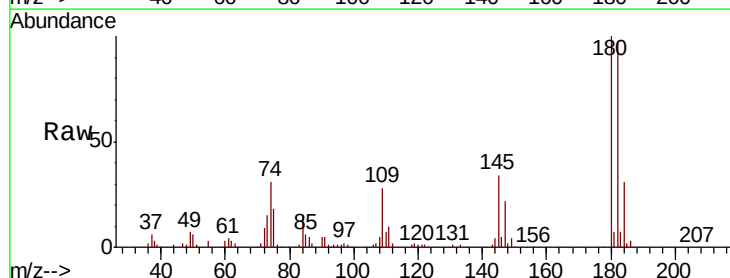
Tgt Ion:180 Resp: 142772

Ion Ratio Lower Upper

180 100

182 96.4 78.7 118.1

145 33.3 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

