

Data File : VU035733.D  
Acq On : 15 Nov 2019 17:56  
Operator : JC/SP  
Sample : VSTDCCC005EC  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD00522

Quant Time: Nov 16 01:42:37 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR110419WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Sat Nov 16 01:36:54 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.29  | 114  | 208968   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.45  | 117  | 236554   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.84 | 152  | 140562   | 5.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61   | 65    | 92918    | 4.32     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 86.40%  |
| 7) Chloroethane-d5             | 1.93   | 69    | 85756    | 4.87     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 97.40%  |
| 11) 1,1-Dichloroethene-d2      | 2.60   | 63    | 174212   | 4.81     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 96.20%  |
| 20) 2-Butanone-d5              | 4.71   | 46    | 242937   | 51.15    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 102.30% |
| 24) Chloroform-d               | 5.12   | 84    | 166340   | 4.85     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 97.00%  |
| 26) 1,2-Dichloroethane-d4      | 5.75   | 65    | 88182    | 4.90     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 98.00%  |
| 32) Benzene-d6                 | 5.77   | 84    | 338296   | 4.54     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 90.80%  |
| 36) 1,2-Dichloropropane-d6     | 6.73   | 67    | 110628   | 4.60     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 92.00%  |
| 41) Toluene-d8                 | 7.93   | 98    | 320712   | 4.55     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 91.00%  |
| 43) trans-1,3-Dichloropropene- | 8.21   | 79    | 43473    | 4.52     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 90.40%  |
| 46) 2-Hexanone-d5              | 8.68   | 63    | 184888   | 49.07    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 98.14%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.79  | 84    | 101360   | 5.02     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 100.40% |
| 64) 1,2-Dichlorobenzene-d4     | 12.22  | 152   | 125800   | 4.51     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 90.20%  |

#### Target Compounds

|                                |      |     |        |        | Qvalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.39 | 85  | 123434 | 5.490  | ug/L 100 |
| 3) Chloromethane               | 1.53 | 50  | 146543 | 5.651  | ug/L 100 |
| 5) Vinyl chloride              | 1.62 | 62  | 154256 | 5.806  | ug/L 99  |
| 6) Bromomethane                | 1.87 | 94  | 110701 | 7.308  | ug/L 96  |
| 8) Chloroethane                | 1.95 | 64  | 92014  | 6.036  | ug/L 99  |
| 9) Trichlorofluoromethane      | 2.16 | 101 | 190542 | 5.878  | ug/L 99  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.61 | 101 | 108130 | 5.647  | ug/L 99  |
| 12) 1,1-Dichloroethene         | 2.61 | 96  | 108523 | 5.906  | ug/L 84  |
| 13) Acetone                    | 2.68 | 43  | 185913 | 54.298 | ug/L 99  |
| 14) Carbon disulfide           | 2.82 | 76  | 342083 | 5.741  | ug/L 99  |
| 15) Methyl Acetate             | 3.00 | 43  | 45040  | 5.663  | ug/L 100 |
| 16) Methylene chloride         | 3.08 | 84  | 122699 | 5.632  | ug/L 98  |
| 17) Methyl tert-butyl Ether    | 3.42 | 73  | 238792 | 5.545  | ug/L 100 |
| 18) trans-1,2-Dichloroethene   | 3.39 | 96  | 110107 | 5.819  | ug/L 99  |
| 19) 1,1-Dichloroethane         | 3.92 | 63  | 209287 | 5.957  | ug/L 99  |
| 21) 2-Butanone                 | 4.79 | 43  | 276516 | 54.389 | ug/L 99  |
| 22) cis-1,2-Dichloroethene     | 4.72 | 96  | 116678 | 5.584  | ug/L 98  |

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ALS Vial : 23 Sample Multiplier: 1

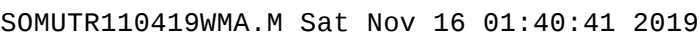
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD00522

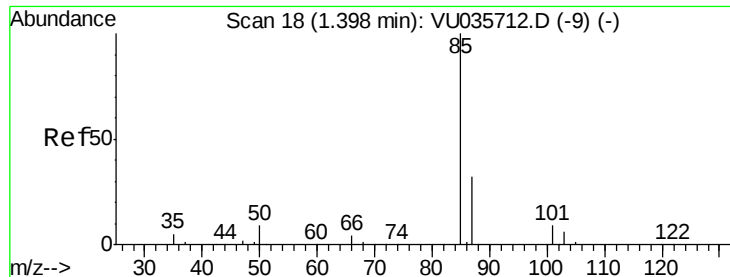
Quant Time: Nov 16 01:42:37 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR110419WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Sat Nov 16 01:36:54 2019  
Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane         | 5.02  | 128  | 57845    | 5.844  | ug/L  | 97       |
| 25) Chloroform                 | 5.14  | 83   | 245985   | 6.439  | ug/L  | 99       |
| 27) 1,2-Dichloroethane         | 5.84  | 62   | 121598   | 5.719  | ug/L  | 99       |
| 29) 1,1,1-Trichloroethane      | 5.36  | 97   | 177989   | 5.716  | ug/L  | 99       |
| 30) Cyclohexane                | 5.43  | 56   | 151862   | 4.878  | ug/L  | 99       |
| 31) Carbon tetrachloride       | 5.57  | 117  | 160202   | 5.708  | ug/L  | 99       |
| 33) Benzene                    | 5.82  | 78   | 462978   | 5.562  | ug/L  | 100      |
| 34) Trichloroethene            | 6.58  | 95   | 118161   | 5.546  | ug/L  | 99       |
| 35) Methylcyclohexane          | 6.80  | 83   | 153549   | 4.731  | ug/L  | 99       |
| 37) 1,2-Dichloropropane        | 6.84  | 63   | 118847   | 5.418  | ug/L  | 100      |
| 38) Bromodichloromethane       | 7.14  | 83   | 151900   | 5.724  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene    | 7.65  | 75   | 159534   | 5.096  | ug/L  | 98       |
| 40) 4-Methyl-2-pentanone       | 7.84  | 43   | 660571   | 52.372 | ug/L  | 99       |
| 42) Toluene                    | 8.00  | 91   | 501486   | 5.725  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene  | 8.25  | 75   | 134756   | 5.384  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane      | 8.44  | 97   | 88595    | 5.640  | ug/L  | 97       |
| 47) Tetrachloroethene          | 8.58  | 164  | 105402   | 5.677  | ug/L  | 97       |
| 48) 2-Hexanone                 | 8.73  | 43   | 465608   | 51.942 | ug/L  | 94       |
| 49) Dibromochloromethane       | 8.84  | 129  | 109696   | 5.661  | ug/L  | 98       |
| 50) 1,2-Dibromoethane          | 8.96  | 107  | 84466    | 5.667  | ug/L  | 97       |
| 51) Chlorobenzene              | 9.48  | 112  | 320191   | 5.567  | ug/L  | 100      |
| 52) Ethylbenzene               | 9.60  | 91   | 492910   | 5.347  | ug/L  | 100      |
| 53) m,p-Xylene                 | 9.72  | 106  | 196971   | 5.643  | ug/L  | 97       |
| 54) o-Xylene                   | 10.13 | 106  | 187052   | 5.545  | ug/L  | 99       |
| 55) Styrene                    | 10.14 | 104  | 324290   | 5.815  | ug/L  | 100      |
| 56) Isopropylbenzene           | 10.51 | 105  | 485962   | 5.459  | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 10.81 | 83   | 112567   | 5.485  | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane     | 10.85 | 75   | 79326    | 5.468  | ug/L  | 96       |
| 61) Bromoform                  | 10.32 | 173  | 65270    | 5.109  | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene        | 11.77 | 146  | 246486   | 5.215  | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene        | 11.86 | 146  | 241712   | 5.311  | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene        | 12.24 | 146  | 233238   | 5.259  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 13.02 | 75   | 13841    | 4.904  | ug/L  | 90       |
| 67) 1,3,5-Trichlorobenzene     | 13.24 | 180  | 158420   | 5.200  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene     | 13.86 | 180  | 81534    | 4.442  | ug/L  | 99       |
| 69) Naphthalene                | 14.11 | 128  | 78964    | 3.494  | ug/L  | 98       |
| 70) 1,2,3-Trichlorobenzene     | 14.35 | 180  | 79258    | 4.466  | ug/L  | 97       |

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

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#2

Dichlorodifluoromethane

Concen: 5.490 ug/L

RT: 1.39 min Scan# 17

Delta R.T. -0.00 min

Lab File: VU035733.D

Acq: 15 Nov 2019 17:56

Instrument :

MSVOA\_U

ClientSampleId :

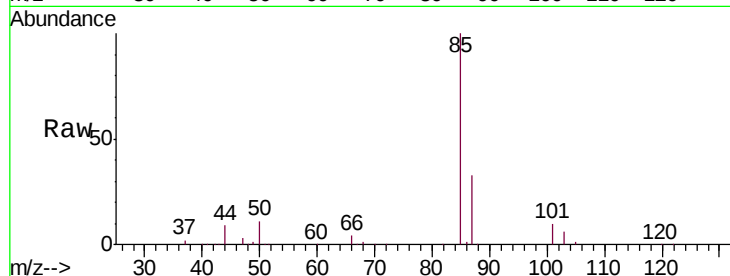
VSTD00522

Tgt Ion: 85 Resp: 123434

Ion Ratio Lower Upper

85 100

87 33.4 26.8 40.2



Abundance Ion 85.00 (84.70 to 85.70): VU035712.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VU035712.D (-9) (-)

1.39

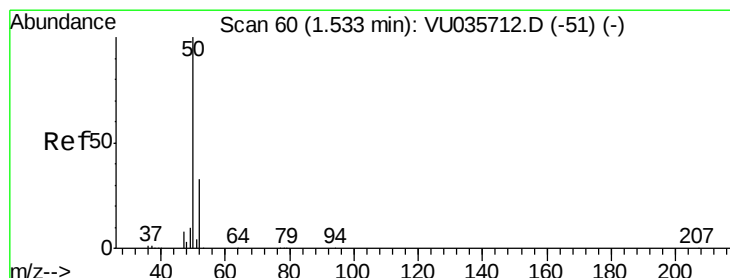
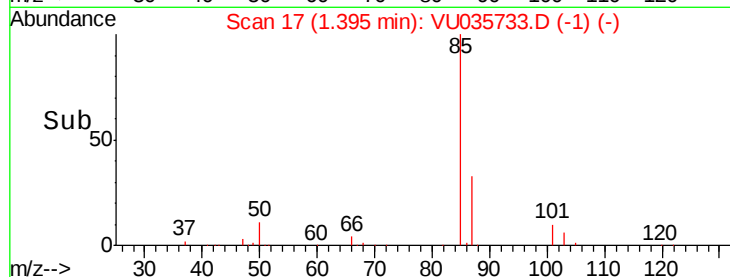
100000

50000

0

1.35 1.40 1.45

Time-->



#3

Chloromethane

Concen: 5.651 ug/L

RT: 1.53 min Scan# 60

Delta R.T. 0.00 min

Lab File: VU035733.D

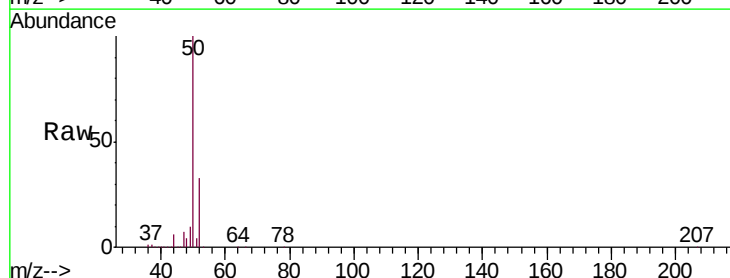
Acq: 15 Nov 2019 17:56

Tgt Ion: 50 Resp: 146543

Ion Ratio Lower Upper

50 100

52 33.5 23.4 43.6



Abundance Ion 50.05 (49.75 to 50.75): VU035712.D (-51) (-)

Ion 52.05 (51.75 to 52.75): VU035712.D (-51) (-)

1.53

150000

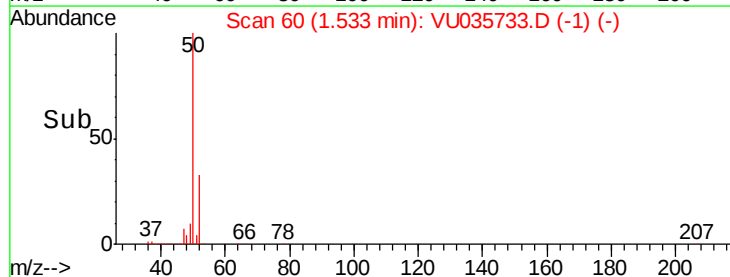
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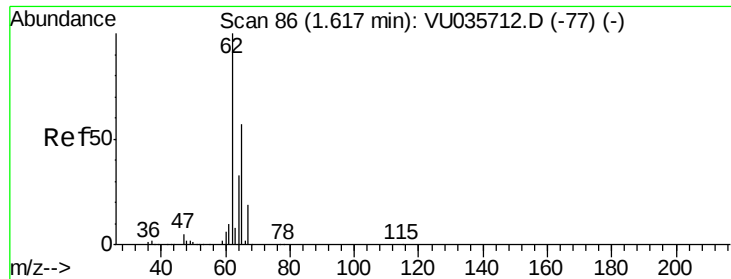
50000

0

1.50 1.55 1.60

Time-->





#5

Vinyl chloride

Concen: 5.806 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU035733.D

Acq: 15 Nov 2019 17:56

Instrument :

MSVOA\_U

ClientSampleId :

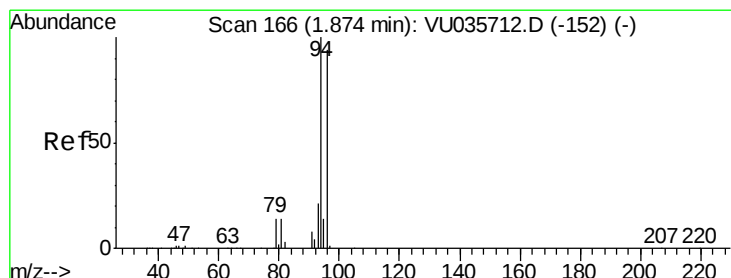
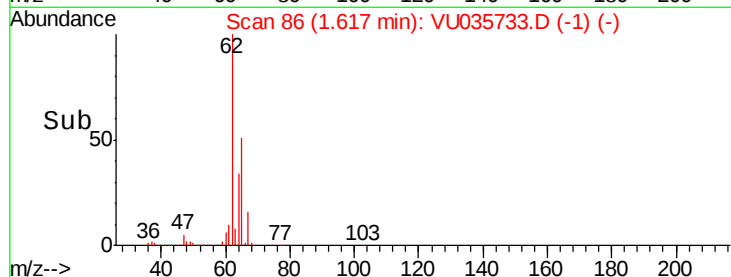
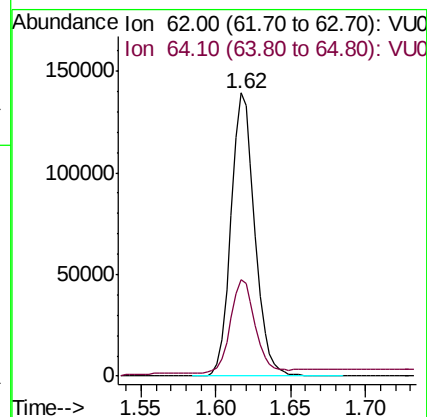
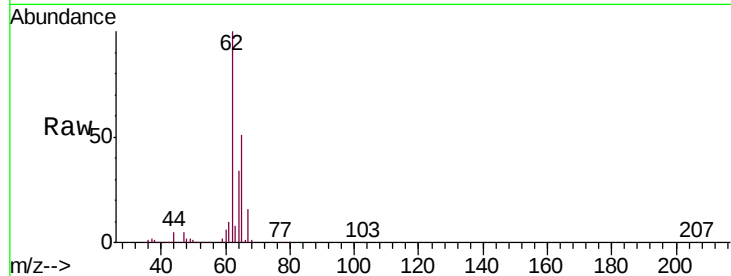
VSTD00522

Tgt Ion: 62 Resp: 154256

Ion Ratio Lower Upper

62 100

64 34.1 23.5 43.7



#6

Bromomethane

Concen: 7.308 ug/L

RT: 1.87 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU035733.D

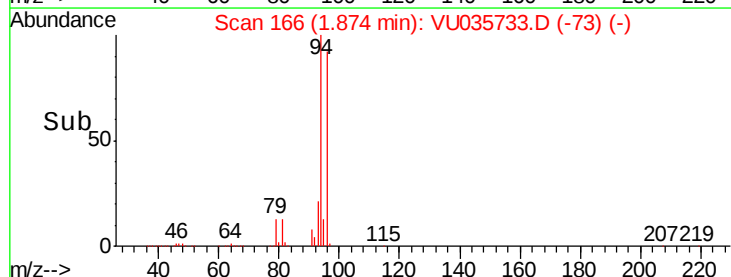
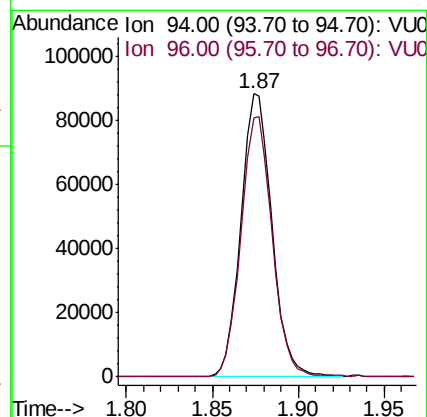
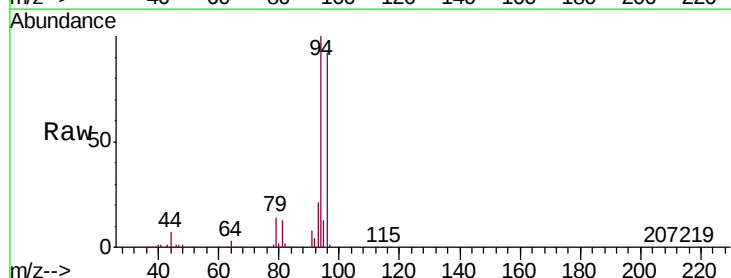
Acq: 15 Nov 2019 17:56

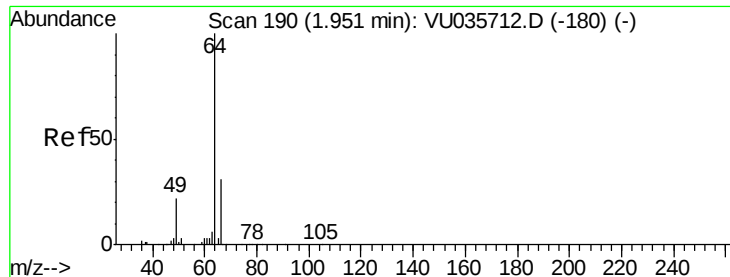
Tgt Ion: 94 Resp: 110701

Ion Ratio Lower Upper

94 100

96 91.5 66.8 124.2





#8

Chloroethane

Concen: 6.036 ug/L

RT: 1.95 min Scan# 190

Delta R.T. 0.00 min

Lab File: VU035733.D

Acq: 15 Nov 2019 17:56

Instrument :

MSVOA\_U

ClientSampleId :

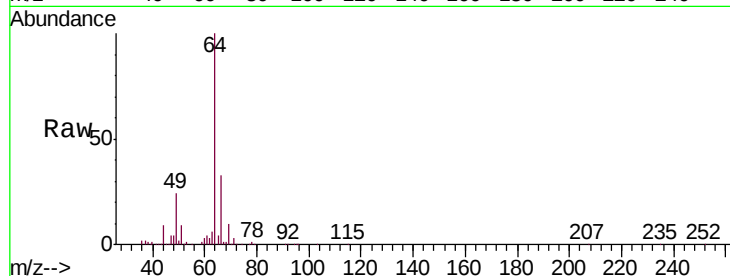
VSTD00522

Tgt Ion: 64 Resp: 92014

Ion Ratio Lower Upper

64 100

66 32.6 22.5 41.7



Abundance Ion 64.10 (63.80 to 64.80): VU035712.D (-180) (-)

Ion 66.05 (65.75 to 66.75): VU035712.D (-180) (-)

1.95

80000

60000

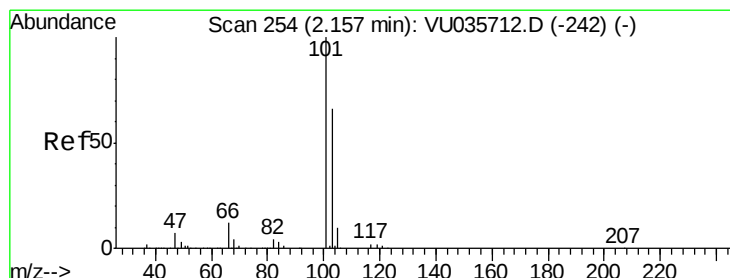
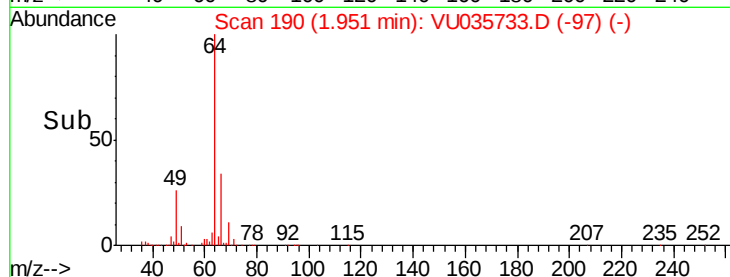
40000

20000

0

1.90 1.95 2.00

Time-->



#9

Trichlorofluoromethane

Concen: 5.878 ug/L

RT: 2.16 min Scan# 255

Delta R.T. 0.00 min

Lab File: VU035733.D

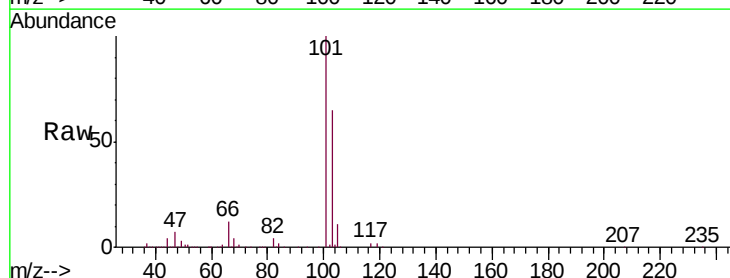
Acq: 15 Nov 2019 17:56

Tgt Ion: 101 Resp: 190542

Ion Ratio Lower Upper

101 100

103 65.1 51.8 77.6



Abundance Ion 101.00 (100.70 to 101.70): VU035712.D (-242) (-)

Ion 103.00 (102.70 to 103.70): VU035712.D (-242) (-)

2.16

150000

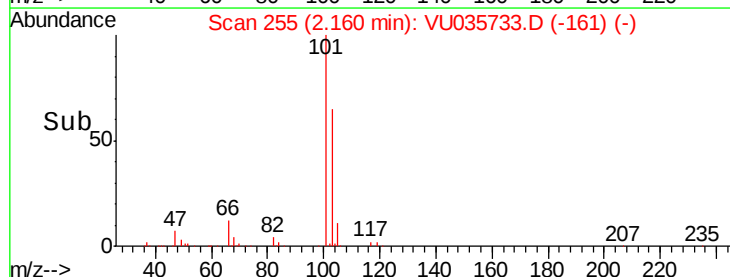
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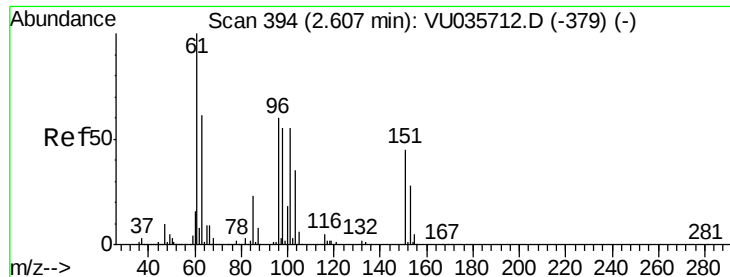
50000

0

2.10 2.15 2.20

Time-->





#10

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

Concen: 5.647 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU035733.D

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VSTD00522

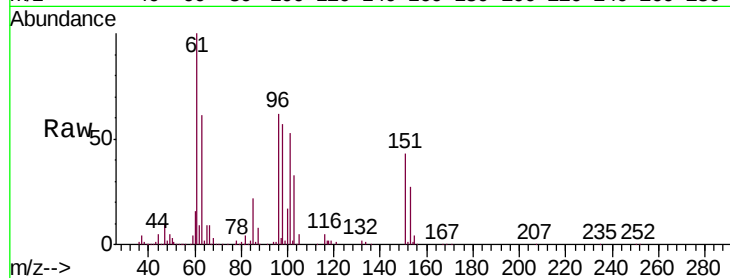
Tgt Ion: 101 Resp: 108130

Ion Ratio Lower Upper

101 100

85 43.1 35.0 52.6

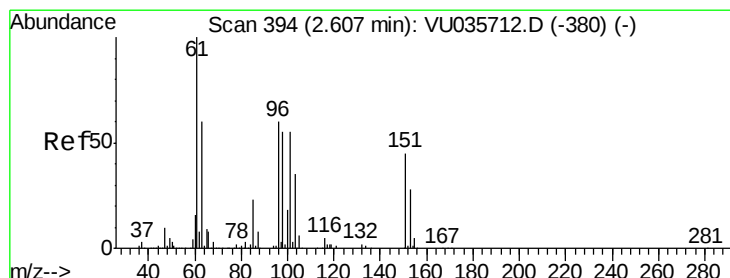
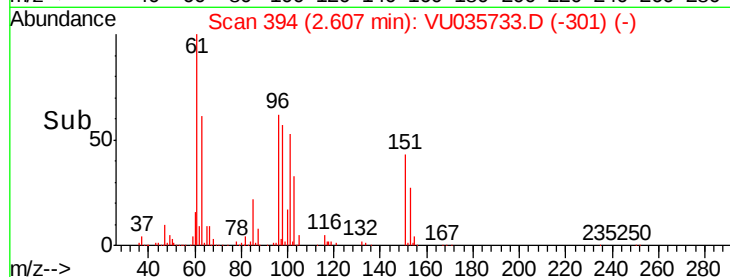
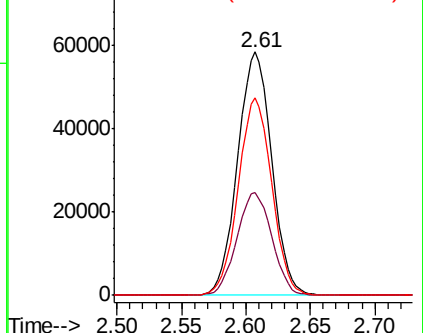
151 79.6 64.0 96.0



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: 5.906 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU035733.D

Acq: 15 Nov 2019 17:56

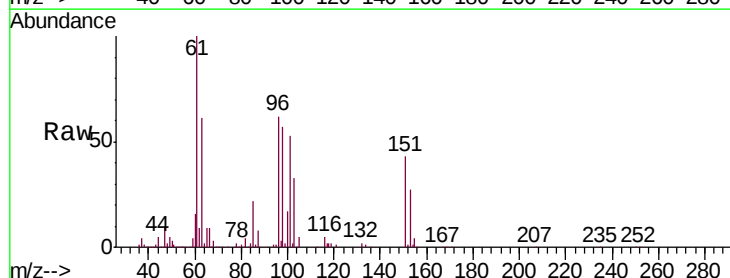
Tgt Ion: 96 Resp: 108523

Ion Ratio Lower Upper

96 100

61 162.2 123.1 228.5

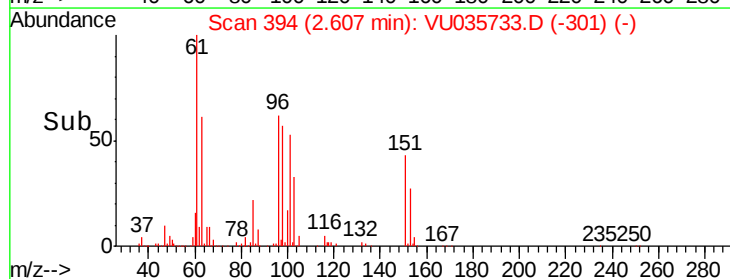
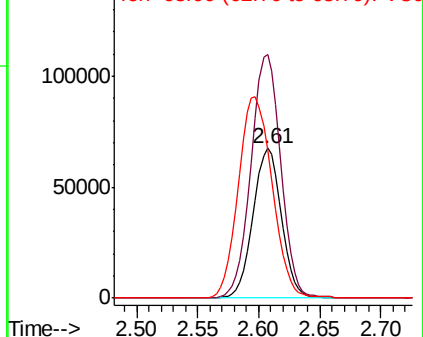
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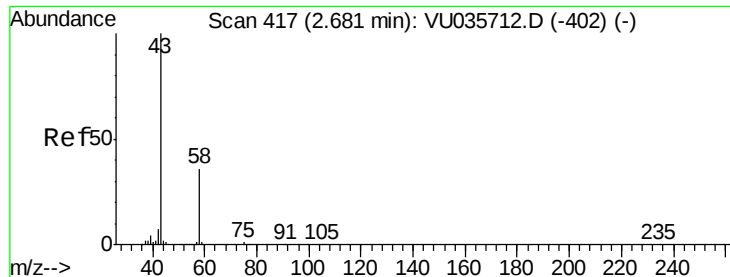


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 54.298 ug/L

RT: 2.68 min Scan# 418

Delta R.T. 0.00 min

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MSVOA\_U

ClientSampleId :

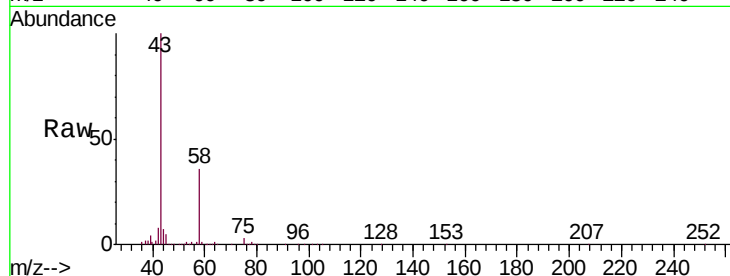
VSTD00522

Tgt Ion: 43 Resp: 185913

Ion Ratio Lower Upper

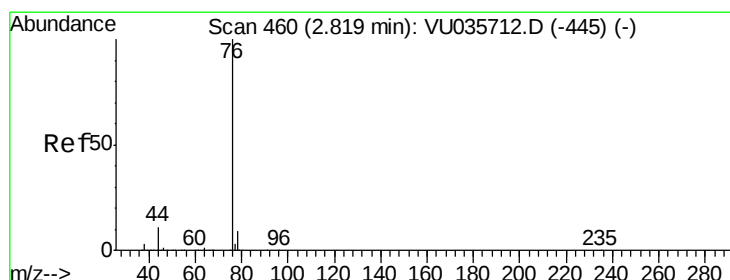
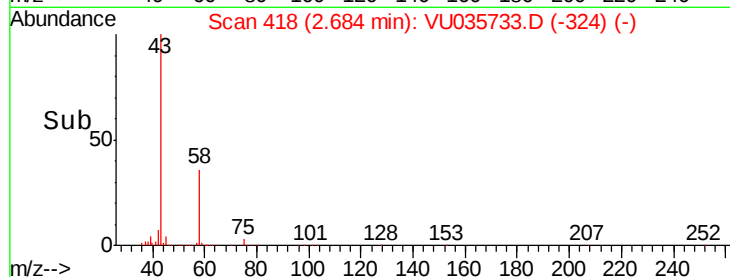
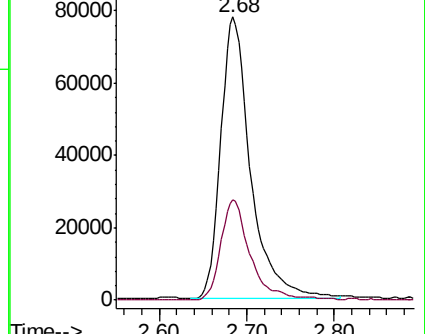
43 100

58 34.2 0.0 69.8



Abundance Ion 43.05 (42.75 to 43.75): VU035712.D (-402) (-)

Ion 58.05 (57.75 to 58.75): VU035712.D (-402) (-)



#14

Carbon disulfide

Concen: 5.741 ug/L

RT: 2.82 min Scan# 460

Delta R.T. 0.00 min

Lab File: VU035733.D

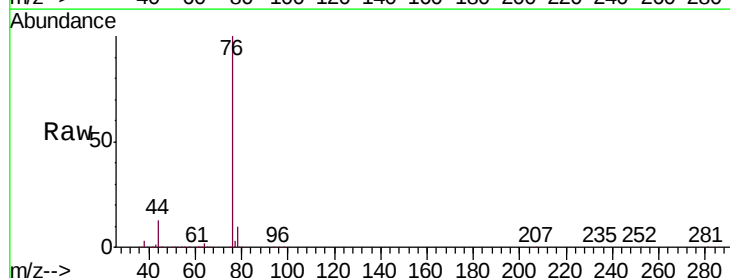
Acq: 15 Nov 2019 17:56

Tgt Ion: 76 Resp: 342083

Ion Ratio Lower Upper

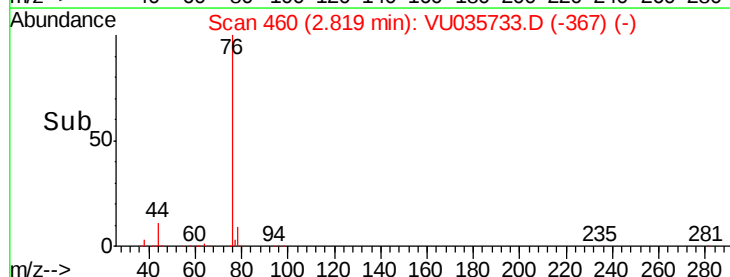
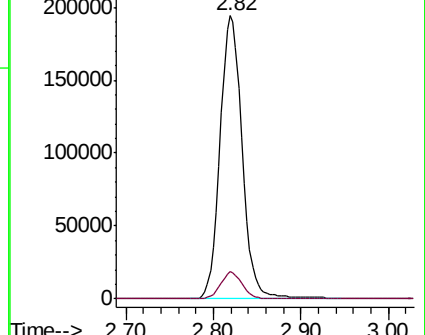
76 100

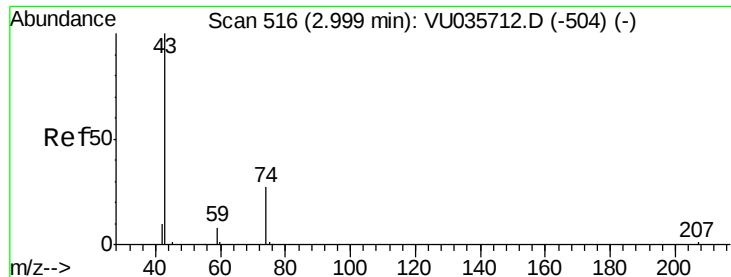
78 9.5 7.4 11.0



Abundance Ion 76.05 (75.75 to 76.75): VU035712.D (-445) (-)

Ion 78.00 (77.70 to 78.70): VU035712.D (-445) (-)

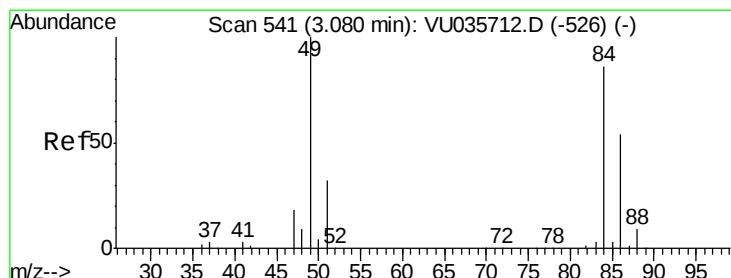
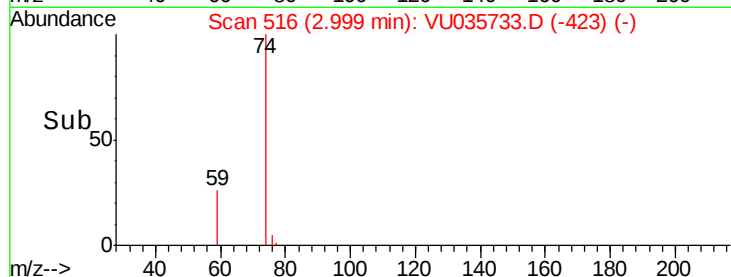
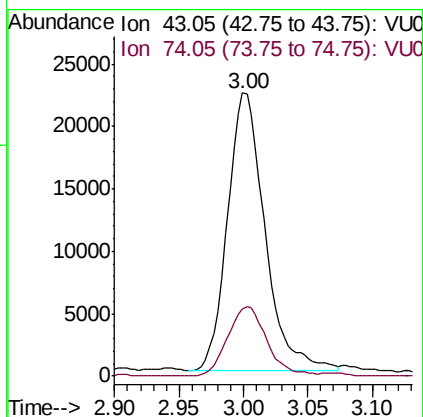
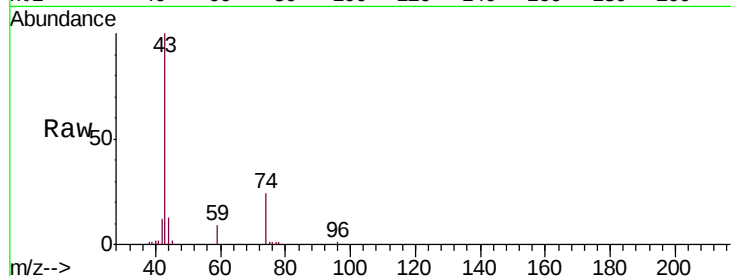




#15  
Methyl Acetate  
Concen: 5.663 ug/L  
RT: 3.00 min Scan# 516  
Delta R.T. 0.00 min  
Lab File: VU035733.D  
Acq: 15 Nov 2019 17:56

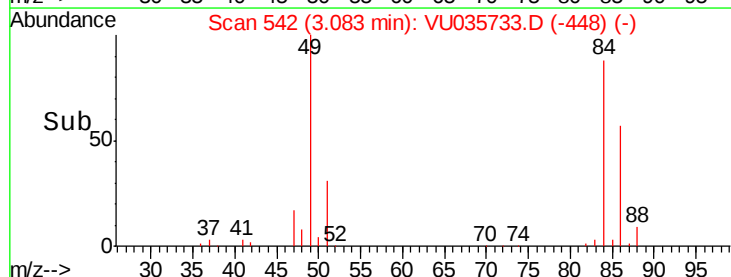
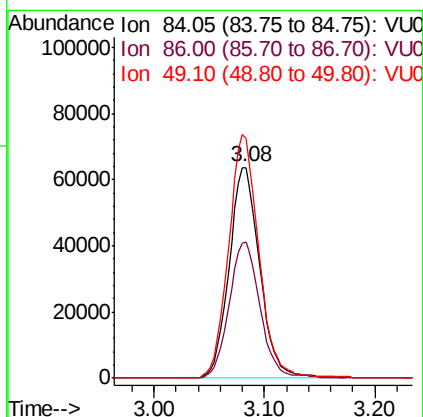
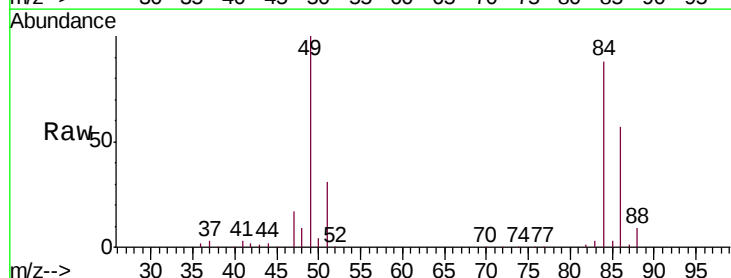
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD00522

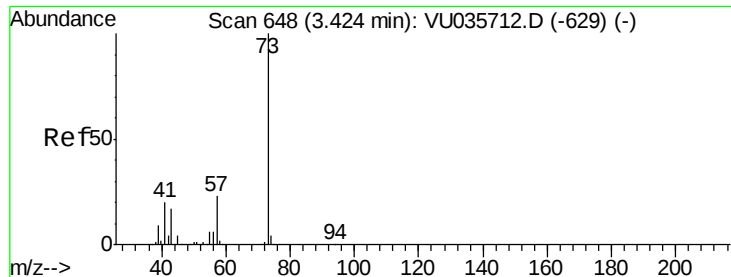
Tgt Ion: 43 Resp: 45040  
Ion Ratio Lower Upper  
43 100  
74 26.2 21.0 31.6



#16  
Methylene chloride  
Concen: 5.632 ug/L  
RT: 3.08 min Scan# 542  
Delta R.T. 0.00 min  
Lab File: VU035733.D  
Acq: 15 Nov 2019 17:56

Tgt Ion: 84 Resp: 122699  
Ion Ratio Lower Upper  
84 100  
86 64.5 45.8 85.2  
49 113.6 81.9 152.1





#17

Methyl tert-butyl Ether

Concen: 5.545 ug/L

RT: 3.42 min Scan# 648

Delta R.T. 0.00 min

Lab File: VU035733.D

Acq: 15 Nov 2019 17:56

Instrument :

MSVOA\_U

ClientSampleId :

VSTD00522

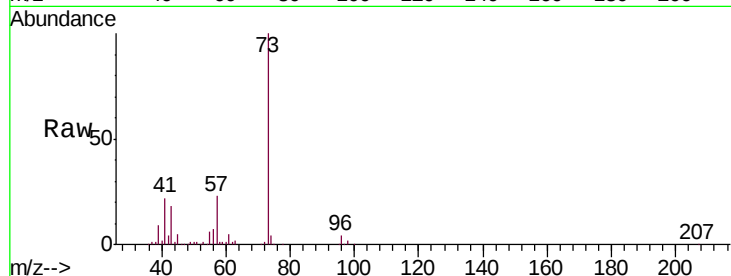
Tgt Ion: 73 Resp: 238792

Ion Ratio Lower Upper

73 100

43 18.1 14.4 21.6

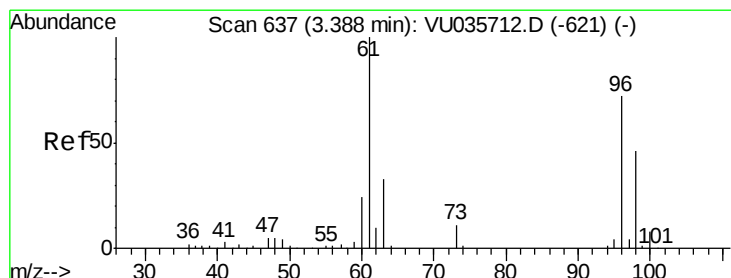
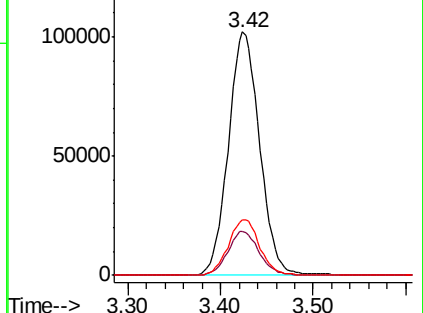
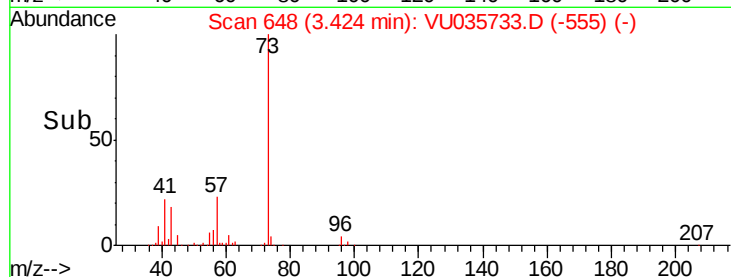
57 22.7 18.2 27.2



Abundance Ion 73.10 (72.80 to 73.80): VU035712.D (-629) (-)

Ion 43.05 (42.75 to 43.75): VU035712.D (-629) (-)

Ion 57.10 (56.80 to 57.80): VU035712.D (-629) (-)



#18

trans-1,2-Dichloroethene

Concen: 5.819 ug/L

RT: 3.39 min Scan# 638

Delta R.T. 0.00 min

Lab File: VU035733.D

Acq: 15 Nov 2019 17:56

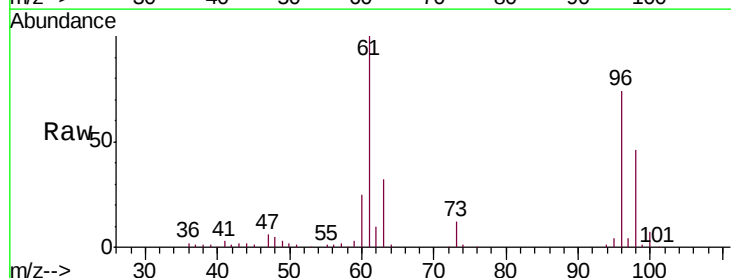
Tgt Ion: 96 Resp: 110107

Ion Ratio Lower Upper

96 100

61 135.2 95.0 176.4

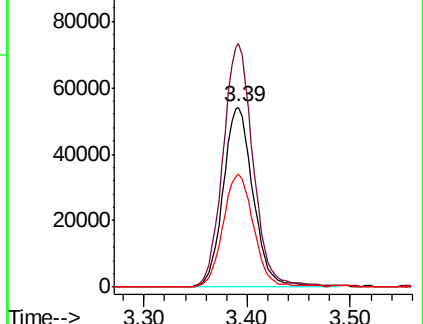
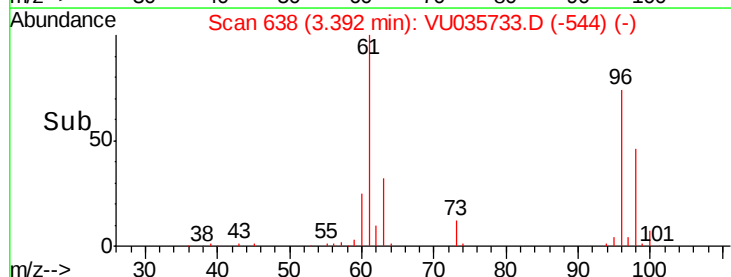
98 62.5 42.5 78.9

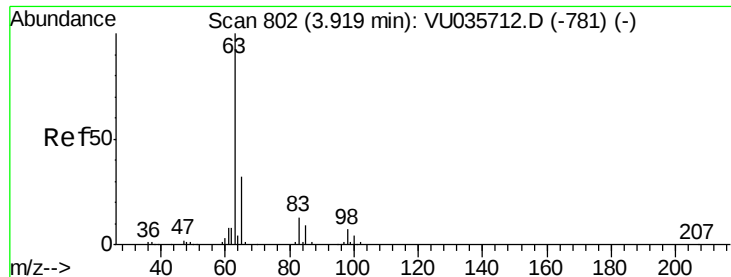


Abundance Ion 96.00 (95.70 to 96.70): VU035712.D (-621) (-)

Ion 61.05 (60.75 to 61.75): VU035712.D (-621) (-)

Ion 97.95 (97.65 to 98.65): VU035712.D (-621) (-)

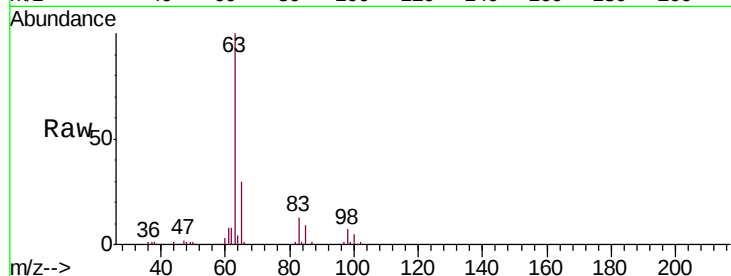




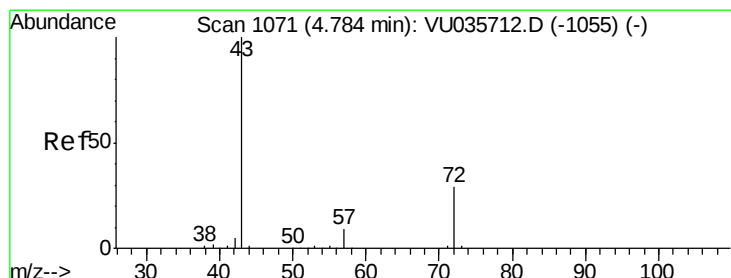
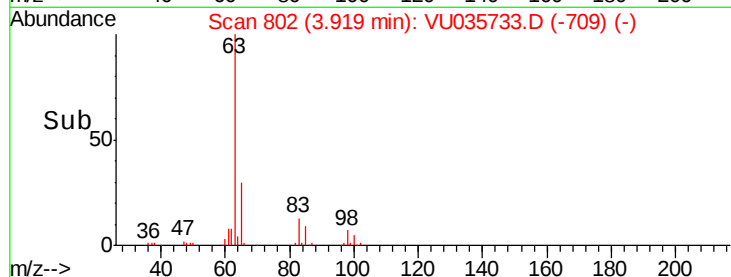
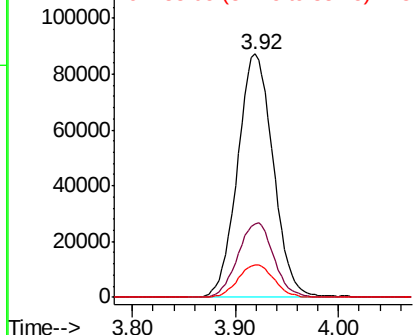
#19  
 1,1-Dichloroethane  
 Concen: 5.957 ug/L  
 RT: 3.92 min Scan# 802  
 Delta R.T. 0.00 min  
 Lab File: VU035733.D  
 Acq: 15 Nov 2019 17:56

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00522

Tgt Ion: 63 Resp: 209287  
 Ion Ratio Lower Upper  
 63 100  
 65 30.3 22.0 40.8  
 83 13.2 9.3 17.3

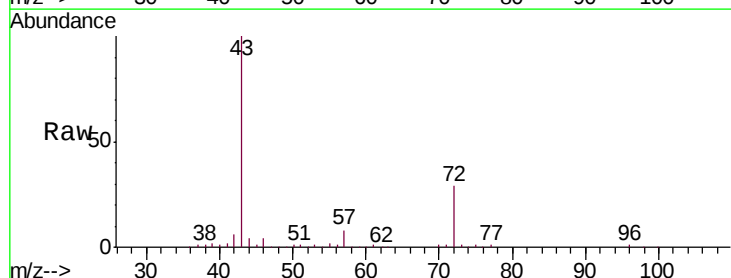


Abundance Ion 63.10 (62.80 to 63.80): VU0  
 Ion 65.10 (64.80 to 65.80): VU0  
 Ion 83.05 (82.75 to 83.75): VU0

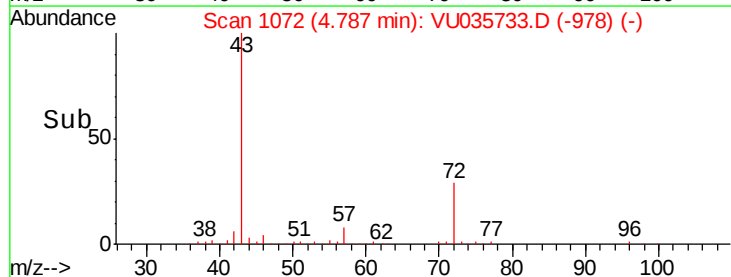
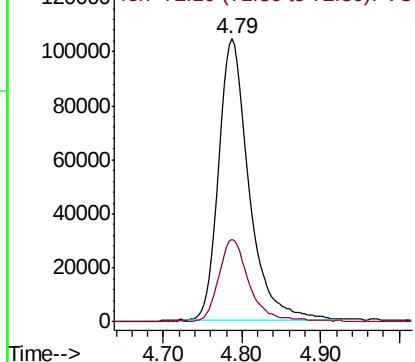


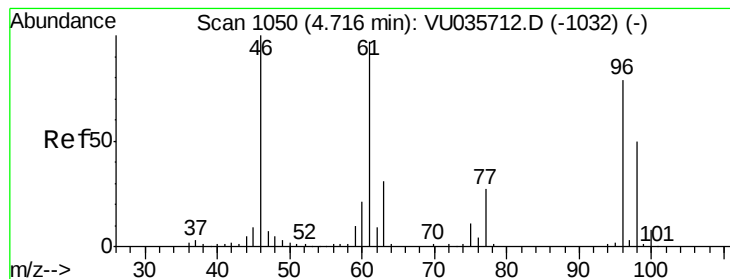
#21  
 2-Butanone  
 Concen: 54.389 ug/L  
 RT: 4.79 min Scan# 1072  
 Delta R.T. 0.00 min  
 Lab File: VU035733.D  
 Acq: 15 Nov 2019 17:56

Tgt Ion: 43 Resp: 276516  
 Ion Ratio Lower Upper  
 43 100  
 72 28.9 14.3 42.9



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





#22

cis-1,2-Dichloroethene

Concen: 5.584 ug/L

RT: 4.72 min Scan# 1051

Delta R.T. 0.00 min

Lab File: VU035733.D

Acq: 15 Nov 2019 17:56

Instrument :

MSVOA\_U

ClientSampleId :

VSTD00522

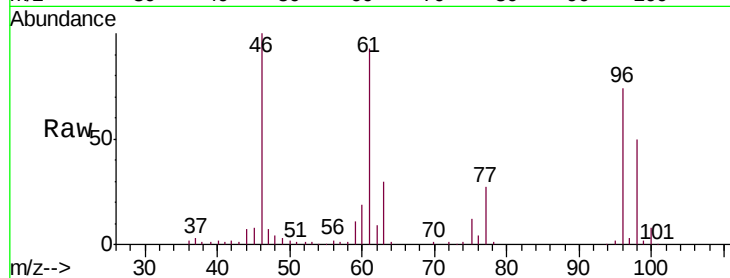
Tgt Ion: 96 Resp: 116678

Ion Ratio Lower Upper

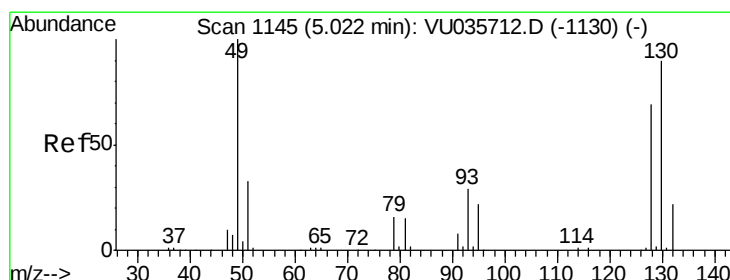
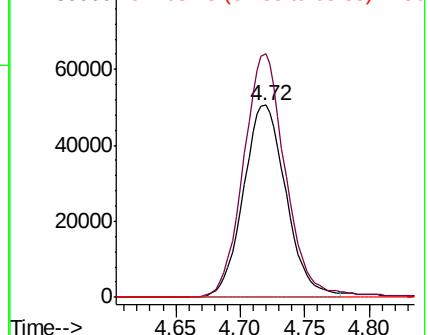
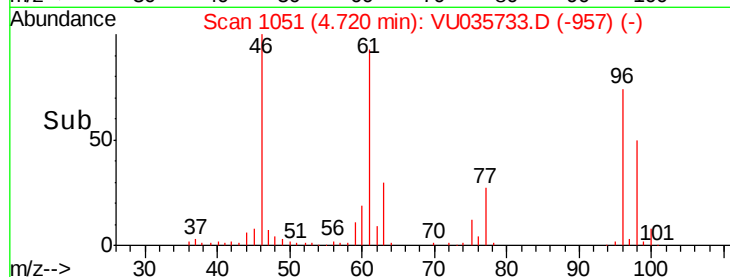
96 100

61 126.8 87.0 161.6

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU035733.D (-957) (-)



#23

Bromochloromethane

Concen: 5.844 ug/L

RT: 5.02 min Scan# 1146

Delta R.T. 0.00 min

Lab File: VU035733.D

Acq: 15 Nov 2019 17:56

Tgt Ion: 128 Resp: 57845

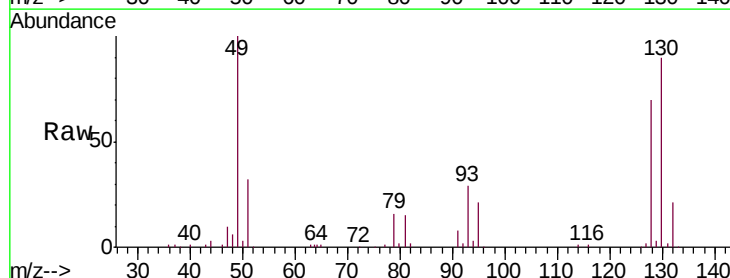
Ion Ratio Lower Upper

128 100

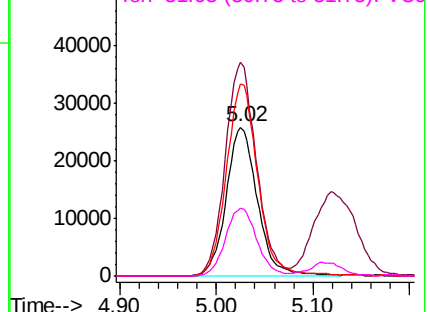
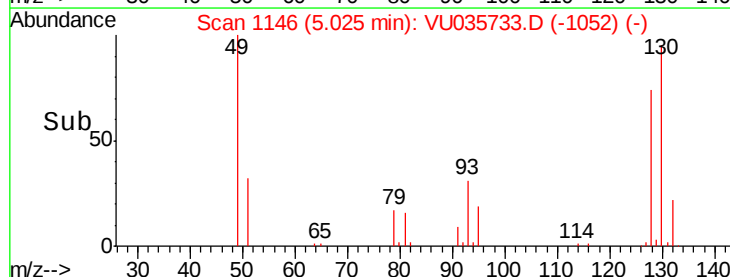
49 143.7 104.1 193.3

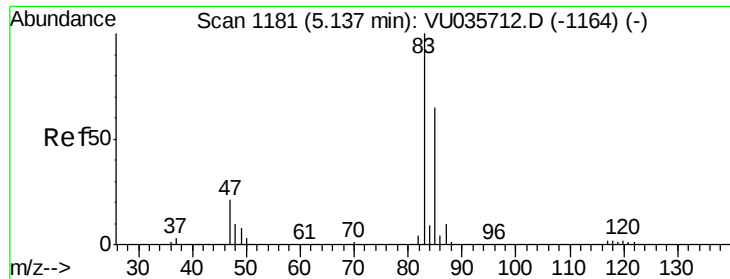
130 129.6 88.4 164.2

51 45.5 37.7 56.5



Abundance Ion 127.90 (127.60 to 128.60): VU035733.D (-1052) (-)

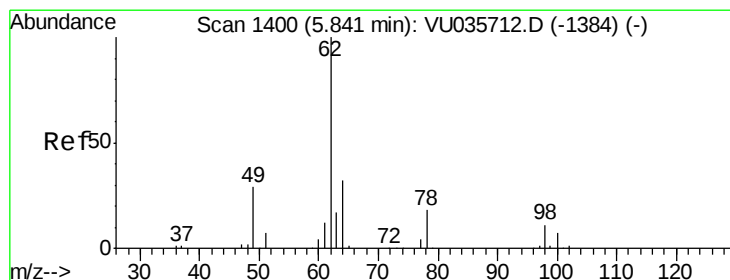
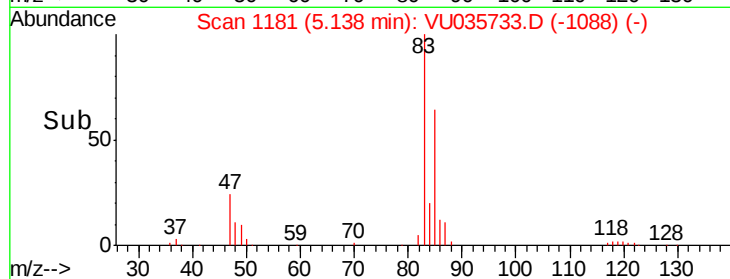
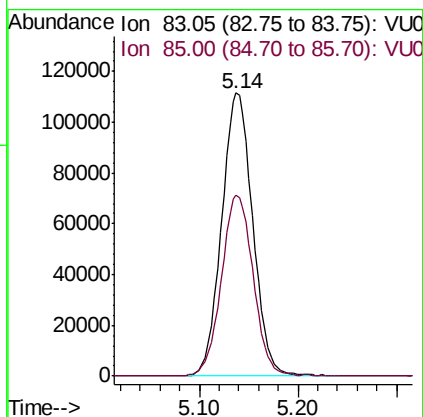
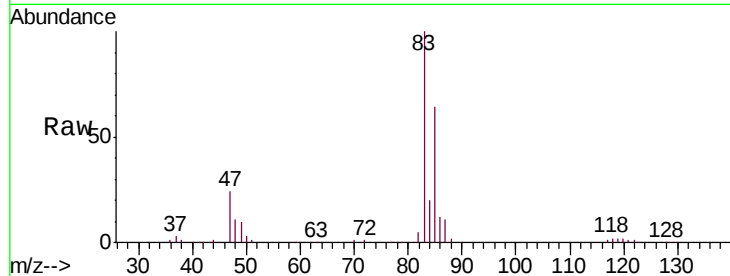




#25  
Chloroform  
Concen: 6.439 ug/L  
RT: 5.14 min Scan# 1181  
Delta R.T. 0.00 min  
Lab File: VU035733.D  
Acq: 15 Nov 2019 17:56

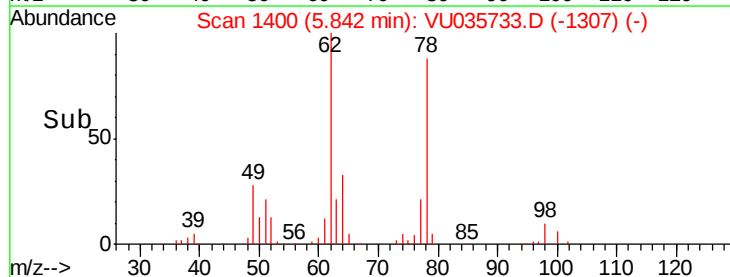
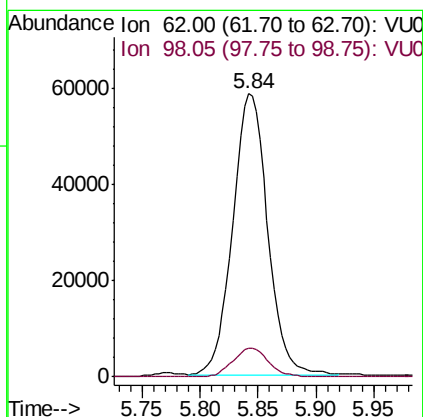
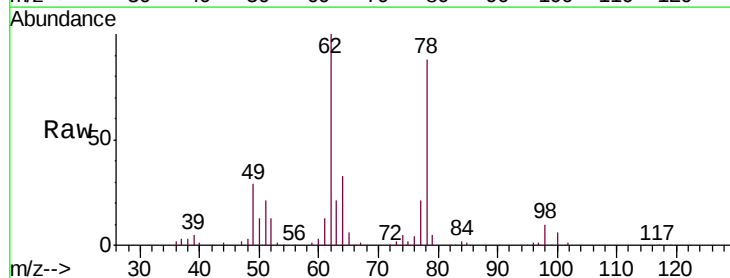
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD00522

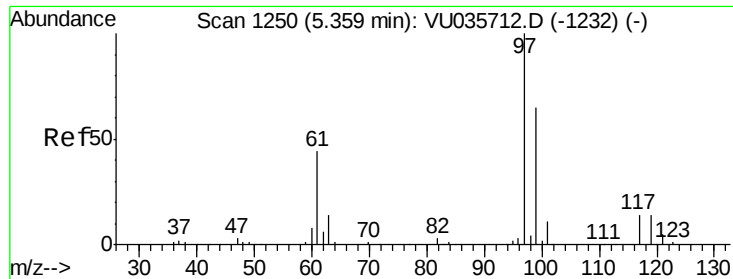
Tgt Ion: 83 Resp: 245985  
Ion Ratio Lower Upper  
83 100  
85 64.1 45.4 84.2



#27  
1,2-Dichloroethane  
Concen: 5.719 ug/L  
RT: 5.84 min Scan# 1400  
Delta R.T. 0.00 min  
Lab File: VU035733.D  
Acq: 15 Nov 2019 17:56

Tgt Ion: 62 Resp: 121598  
Ion Ratio Lower Upper  
62 100  
98 10.3 8.0 12.0

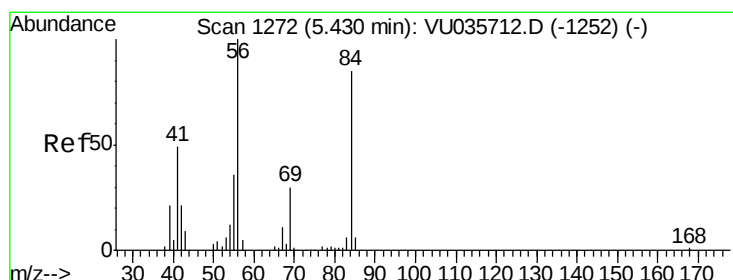
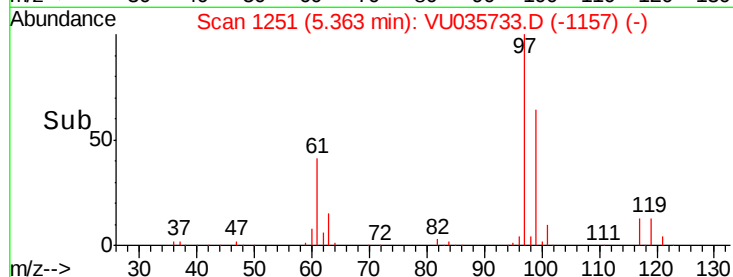
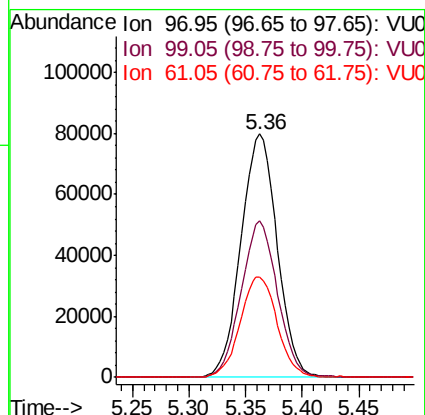
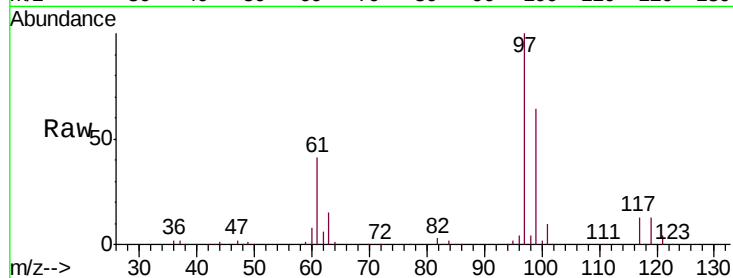




#29  
 1,1,1-Trichloroethane  
 Concen: 5.716 ug/L  
 RT: 5.36 min Scan# 1251  
 Delta R.T. 0.00 min  
 Lab File: VU035733.D  
 Acq: 15 Nov 2019 17:56

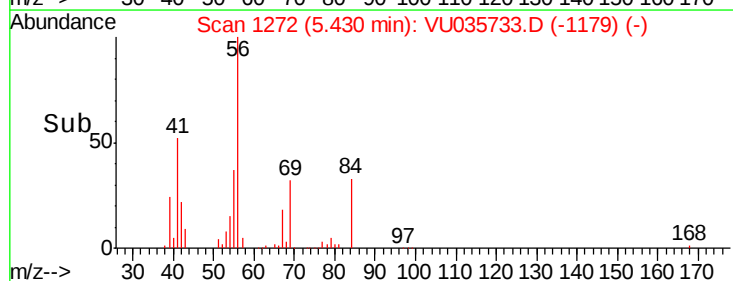
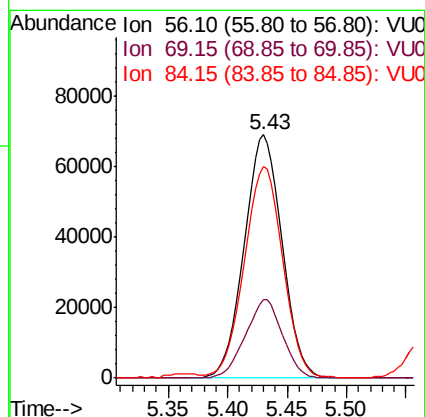
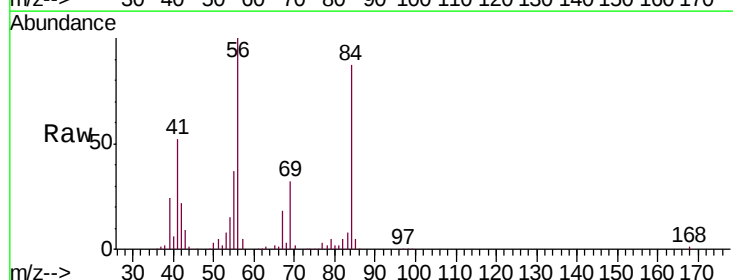
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00522

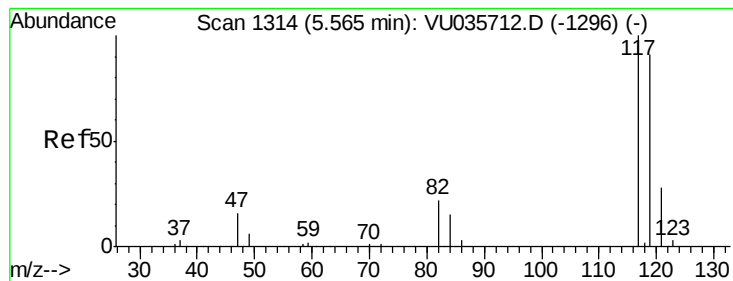
Tgt Ion: 97 Resp: 177989  
 Ion Ratio Lower Upper  
 97 100  
 99 64.4 51.3 76.9  
 61 42.0 34.4 51.6



#30  
 Cyclohexane  
 Concen: 4.878 ug/L  
 RT: 5.43 min Scan# 1272  
 Delta R.T. 0.00 min  
 Lab File: VU035733.D  
 Acq: 15 Nov 2019 17:56

Tgt Ion: 56 Resp: 151862  
 Ion Ratio Lower Upper  
 56 100  
 69 31.6 24.6 37.0  
 84 88.4 69.7 104.5





#31

Carbon tetrachloride

Concen: 5.708 ug/L

RT: 5.57 min Scan# 1315

Delta R.T. 0.00 min

Lab File: VU035733.D

Acq: 15 Nov 2019 17:56

Instrument :

MSVOA\_U

ClientSampleId :

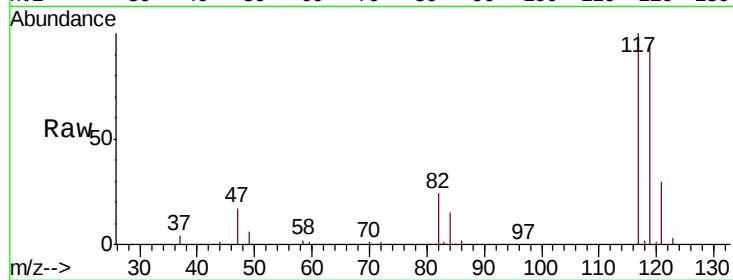
VSTD00522

Tgt Ion:117 Resp: 160202

Ion Ratio Lower Upper

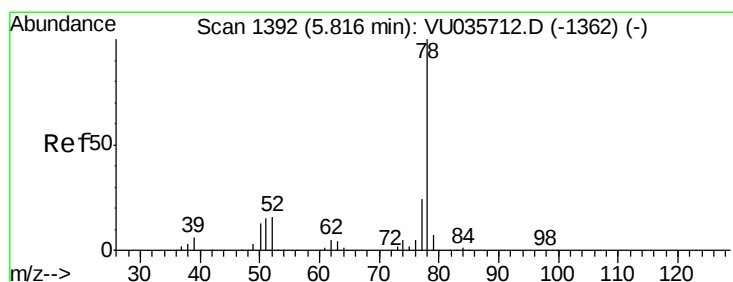
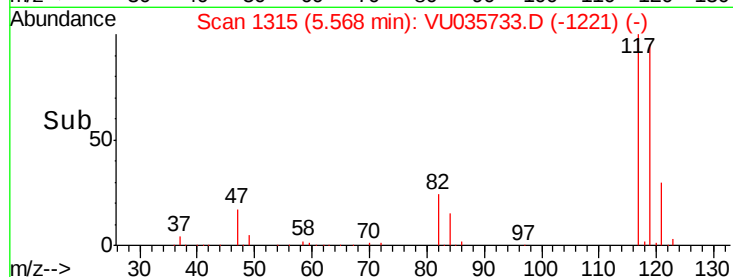
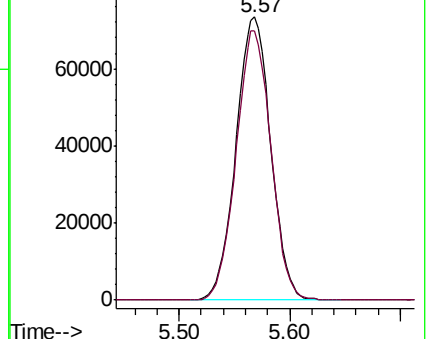
117 100

119 95.3 75.3 112.9



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 5.562 ug/L

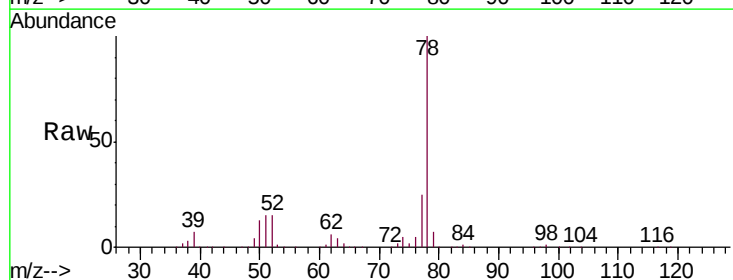
RT: 5.82 min Scan# 1393

Delta R.T. 0.00 min

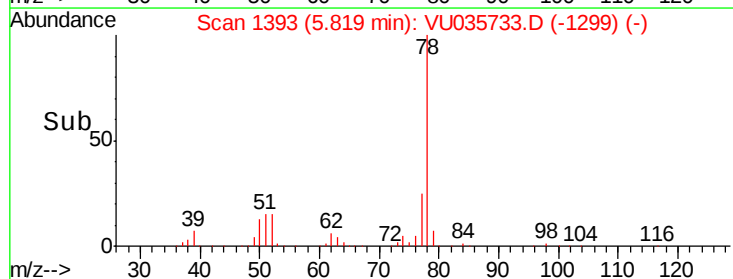
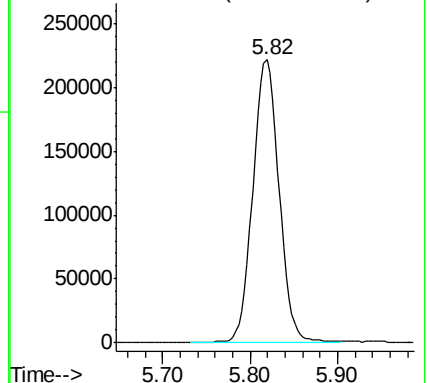
Lab File: VU035733.D

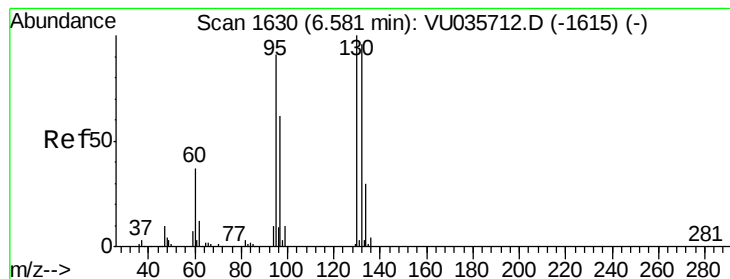
Acq: 15 Nov 2019 17:56

Tgt Ion: 78 Resp: 462978



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 5.546 ug/L

RT: 6.58 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VU035733.D

Acq: 15 Nov 2019 17:56

Instrument :

MSVOA\_U

ClientSampleId :

VSTD00522

Tgt Ion: 95 Resp: 118161

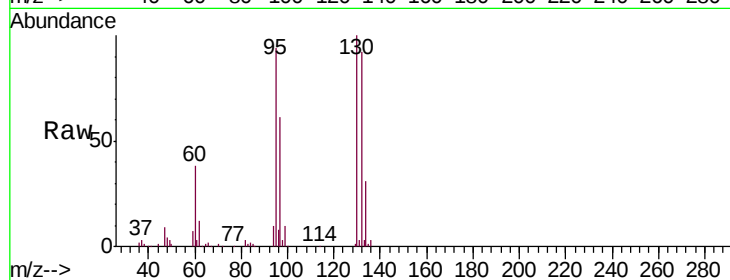
Ion Ratio Lower Upper

95 100

97 64.4 44.5 82.7

132 98.2 69.9 129.7

130 106.4 74.1 137.7

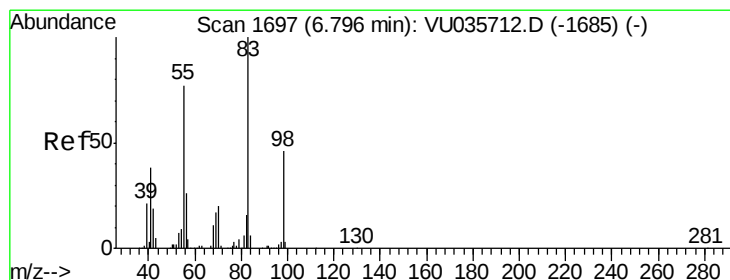
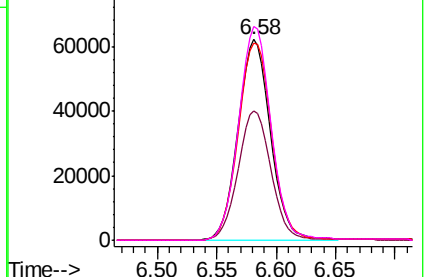
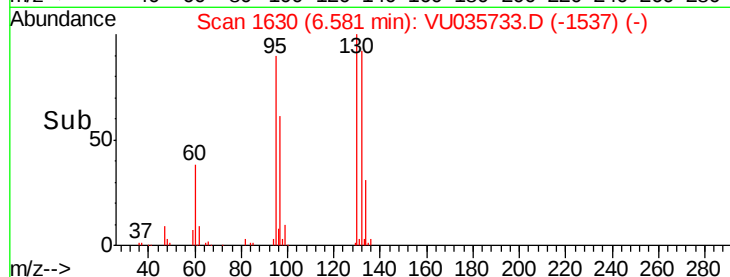


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 4.731 ug/L

RT: 6.80 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VU035733.D

Acq: 15 Nov 2019 17:56

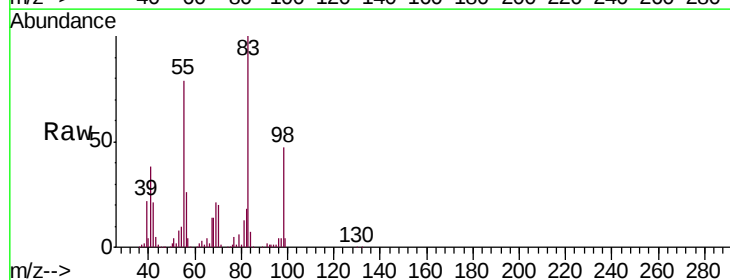
Tgt Ion: 83 Resp: 153549

Ion Ratio Lower Upper

83 100

55 79.5 62.6 93.8

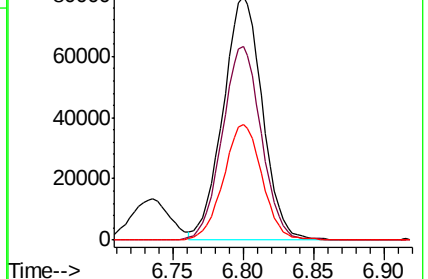
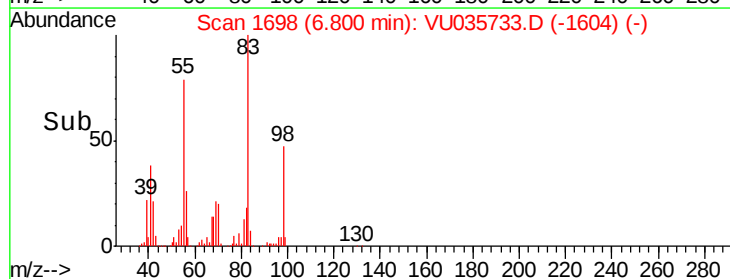
98 47.1 37.2 55.8

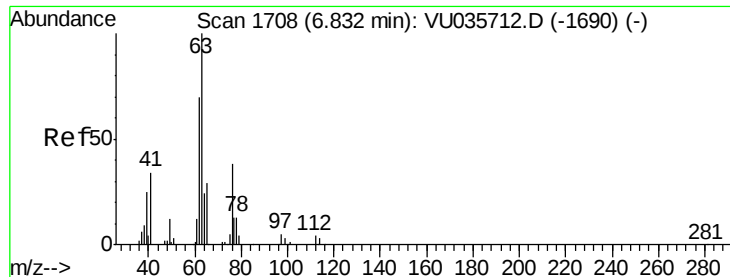


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 5.418 ug/L

RT: 6.84 min Scan# 1709

Delta R.T. 0.00 min

Lab File: VU035733.D

Acq: 15 Nov 2019 17:56

Instrument :

MSVOA\_U

ClientSampleId :

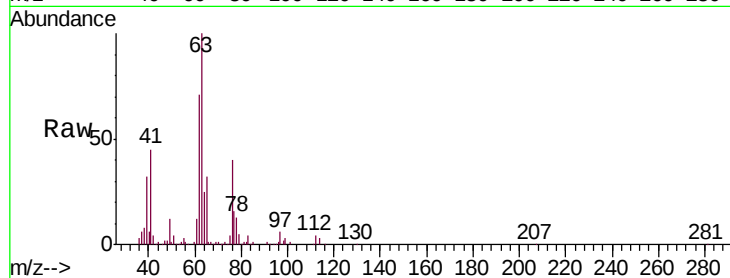
VSTD00522

Tgt Ion: 63 Resp: 118847

Ion Ratio Lower Upper

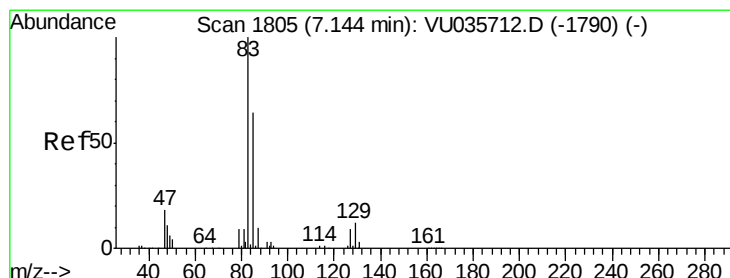
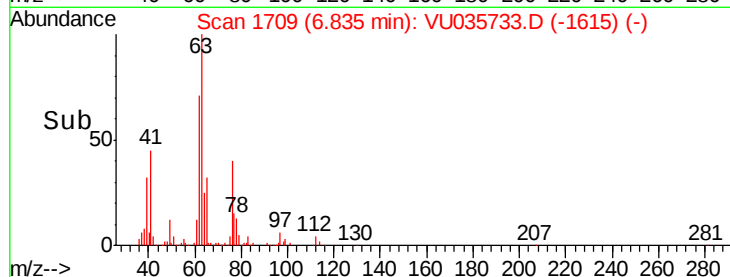
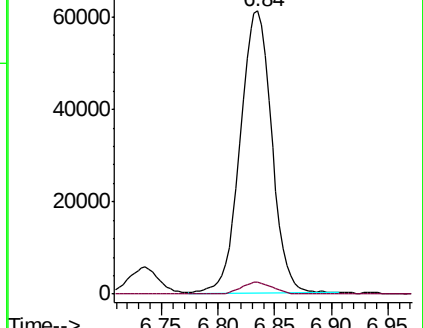
63 100

112 4.2 3.4 5.2



Abundance Ion 63.10 (62.80 to 63.80): VU035712.D (-1690) (-)

Ion 112.10 (111.80 to 112.80): VU035712.D (-1690) (-)



#38

Bromodichloromethane

Concen: 5.724 ug/L

RT: 7.14 min Scan# 1805

Delta R.T. 0.00 min

Lab File: VU035733.D

Acq: 15 Nov 2019 17:56

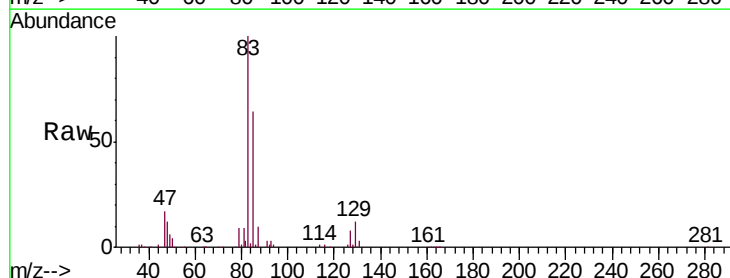
Tgt Ion: 83 Resp: 151900

Ion Ratio Lower Upper

83 100

85 64.4 44.7 82.9

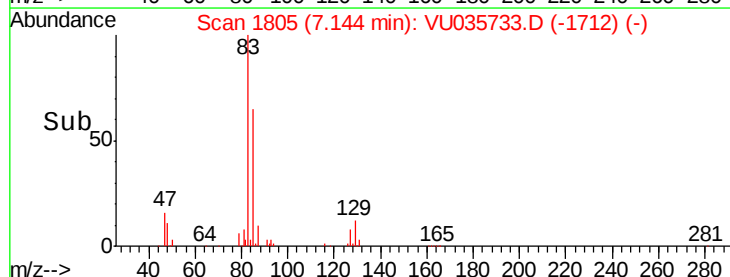
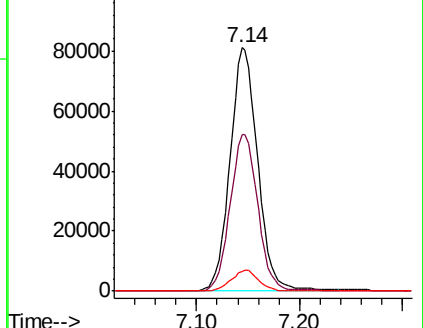
127 8.3 7.1 10.7

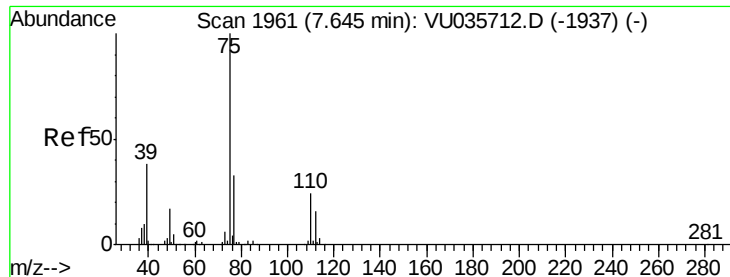


Abundance Ion 82.95 (82.65 to 83.65): VU035712.D (-1790) (-)

Ion 85.00 (84.70 to 85.70): VU035712.D (-1790) (-)

Ion 126.90 (126.60 to 127.60): VU035712.D (-1790) (-)

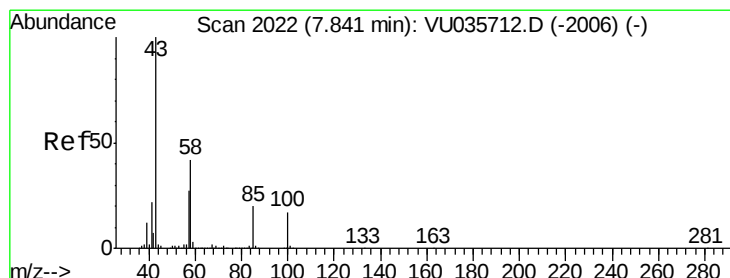
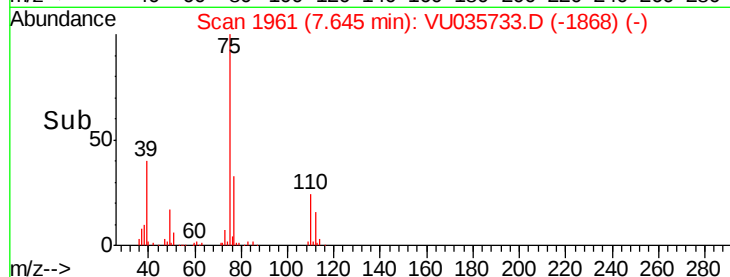
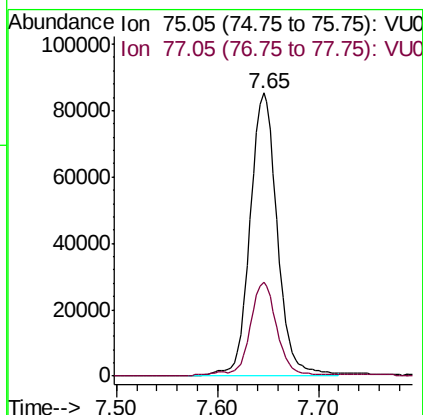
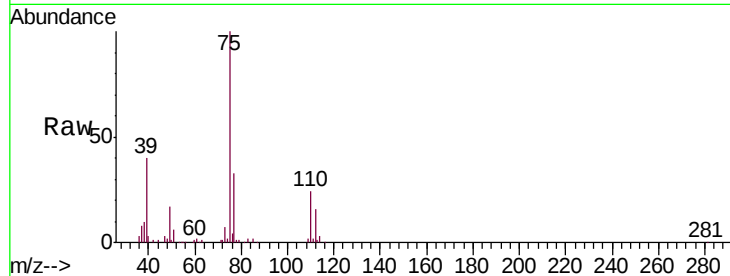




#39  
 cis-1,3-Dichloropropene  
 Concen: 5.096 ug/L  
 RT: 7.65 min Scan# 1961  
 Delta R.T. 0.00 min  
 Lab File: VU035733.D  
 Acq: 15 Nov 2019 17:56

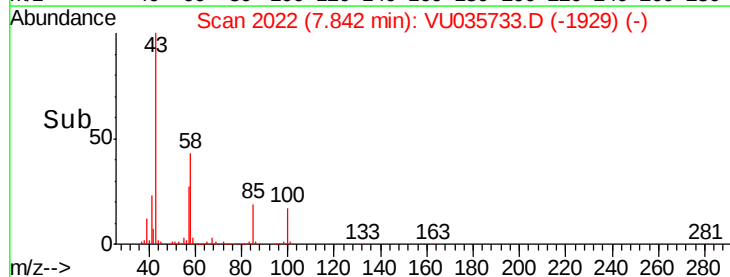
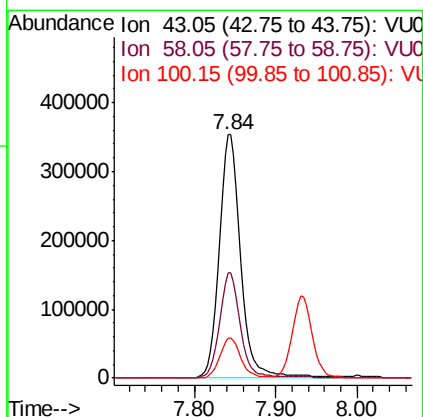
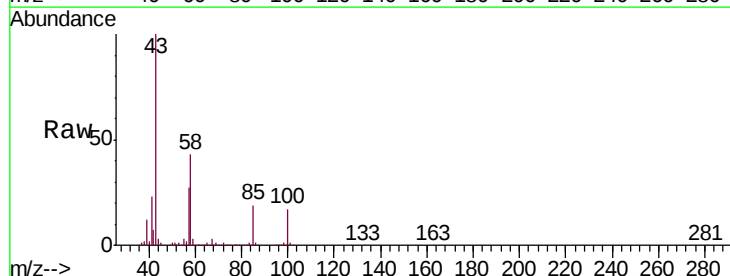
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00522

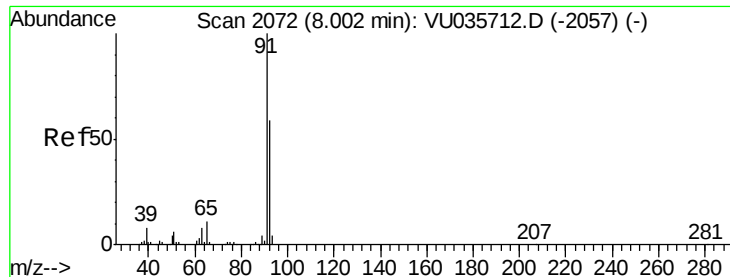
Tgt Ion: 75 Resp: 159534  
 Ion Ratio Lower Upper  
 75 100  
 77 33.0 22.5 41.7



#40  
 4-Methyl-2-pentanone  
 Concen: 52.372 ug/L  
 RT: 7.84 min Scan# 2022  
 Delta R.T. 0.00 min  
 Lab File: VU035733.D  
 Acq: 15 Nov 2019 17:56

Tgt Ion: 43 Resp: 660571  
 Ion Ratio Lower Upper  
 43 100  
 58 41.4 33.4 50.2  
 100 16.1 12.7 19.1





#42

Toluene

Concen: 5.725 ug/L

RT: 8.00 min Scan# 2072

Delta R.T. 0.00 min

Lab File: VU035733.D

Acq: 15 Nov 2019 17:56

Instrument :

MSVOA\_U

ClientSampleId :

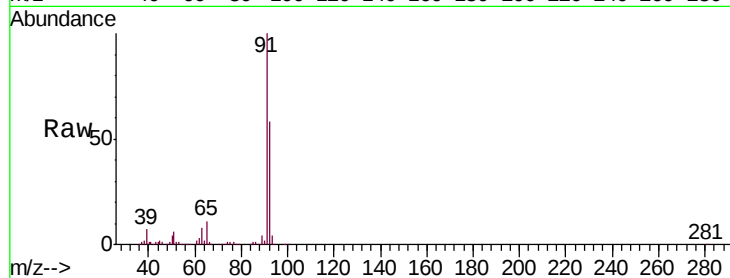
VSTD00522

Tgt Ion: 91 Resp: 501486

Ion Ratio Lower Upper

91 100

92 58.2 40.5 75.3



Abundance Ion 91.15 (90.85 to 91.85): VU035712.D (-2057) (-)

Ion 92.15 (91.85 to 92.85): VU035712.D (-2057) (-)

8.00

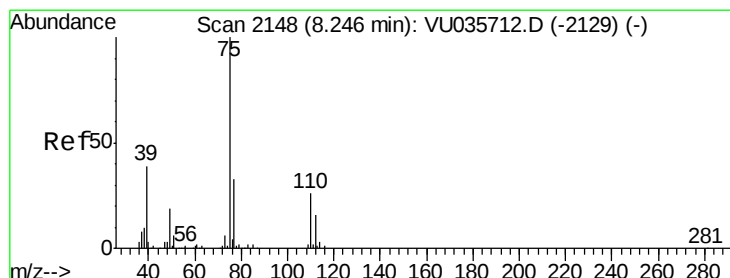
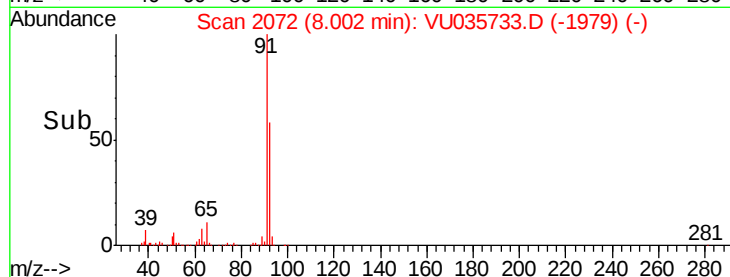
300000

200000

100000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 5.384 ug/L

RT: 8.25 min Scan# 2148

Delta R.T. 0.00 min

Lab File: VU035733.D

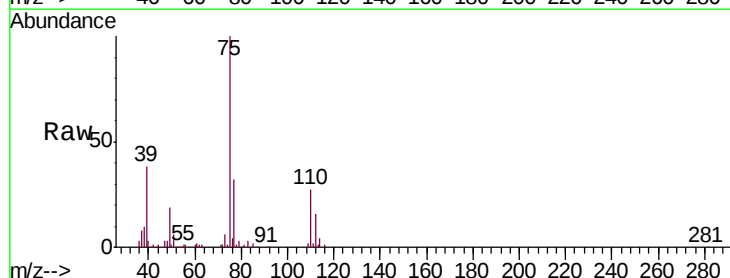
Acq: 15 Nov 2019 17:56

Tgt Ion: 75 Resp: 134756

Ion Ratio Lower Upper

75 100

77 31.6 21.6 40.2



Abundance Ion 75.05 (74.75 to 75.75): VU035712.D (-2129) (-)

Ion 77.05 (76.75 to 77.75): VU035712.D (-2129) (-)

8.25

80000

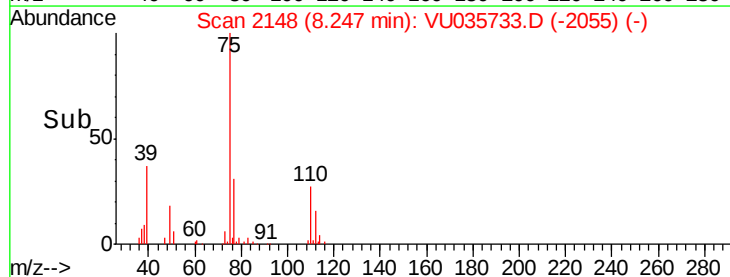
60000

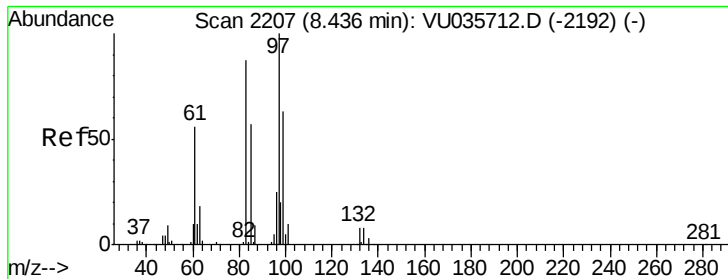
40000

20000

0

Time-->

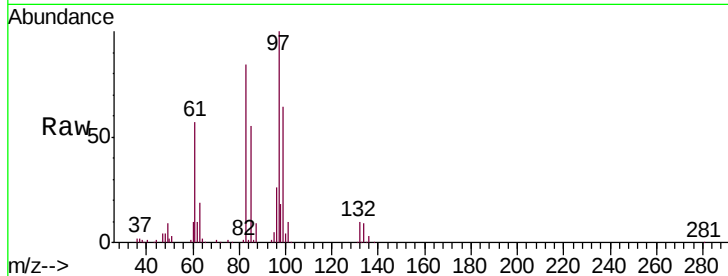




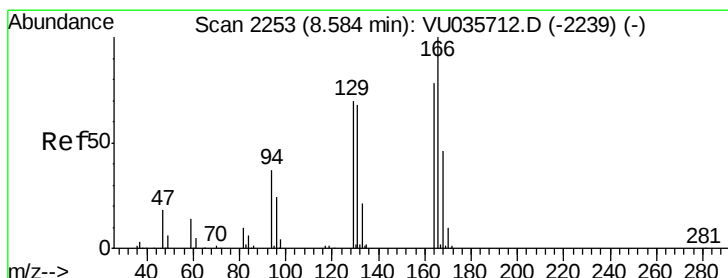
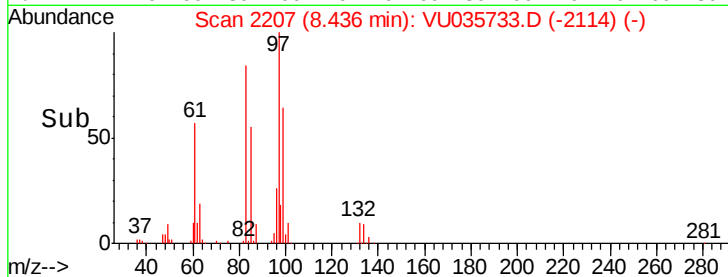
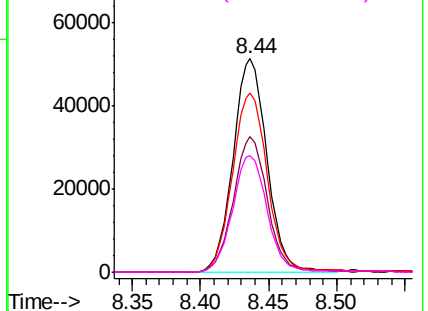
#45  
 1,1,2-Trichloroethane  
 Concen: 5.640 ug/L  
 RT: 8.44 min Scan# 2207  
 Delta R.T. 0.00 min  
 Lab File: VU035733.D  
 Acq: 15 Nov 2019 17:56

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00522

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 88595 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 63.6  | 43.8  | 81.4  |
| 83       | 83.7  | 61.6  | 114.4 |
| 85       | 54.8  | 40.0  | 74.4  |

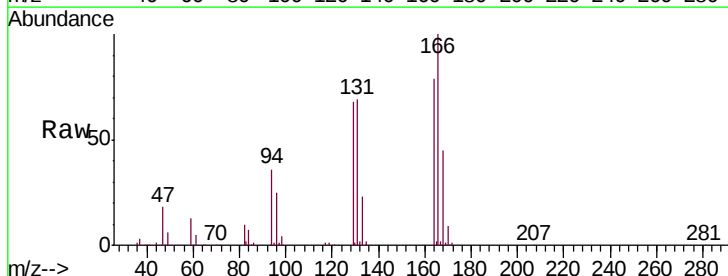


Abundance Ion 96.95 (96.65 to 97.65): VU035712.D (-2192) (-)  
 Ion 99.05 (98.75 to 99.75): VU035712.D (-2192) (-)  
 Ion 82.95 (82.65 to 83.65): VU035712.D (-2192) (-)  
 Ion 85.00 (84.70 to 85.70): VU035712.D (-2192) (-)

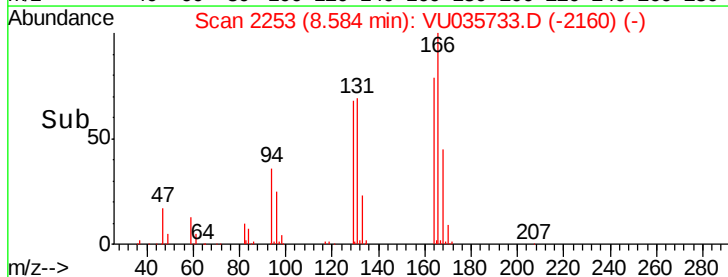
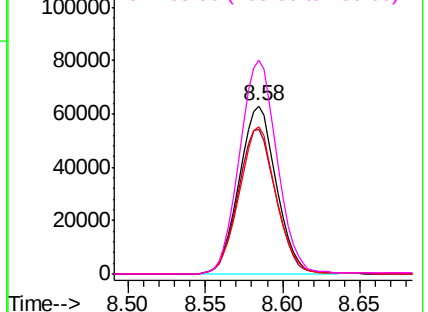


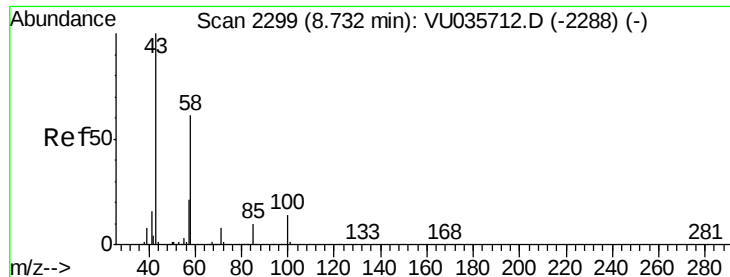
#47  
 Tetrachloroethene  
 Concen: 5.677 ug/L  
 RT: 8.58 min Scan# 2253  
 Delta R.T. 0.00 min  
 Lab File: VU035733.D  
 Acq: 15 Nov 2019 17:56

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 105402 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 129      | 86.0  | 64.7  | 120.1  |
| 131      | 88.1  | 61.6  | 114.4  |
| 166      | 127.3 | 91.8  | 170.4  |



Abundance Ion 163.90 (163.60 to 164.60): VU035712.D (-2239) (-)  
 Ion 128.95 (128.65 to 129.65): VU035712.D (-2239) (-)  
 Ion 130.95 (130.65 to 131.65): VU035712.D (-2239) (-)  
 Ion 165.90 (165.60 to 166.60): VU035712.D (-2239) (-)

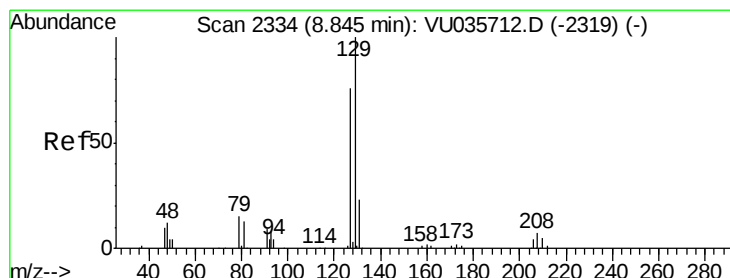
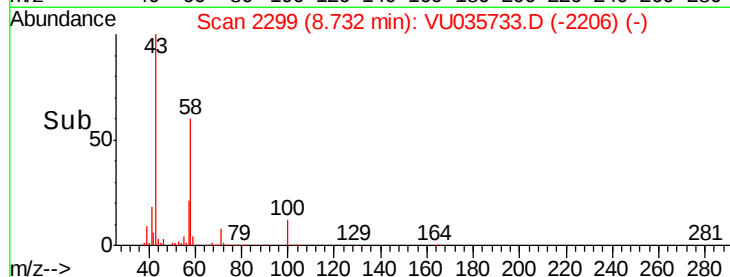
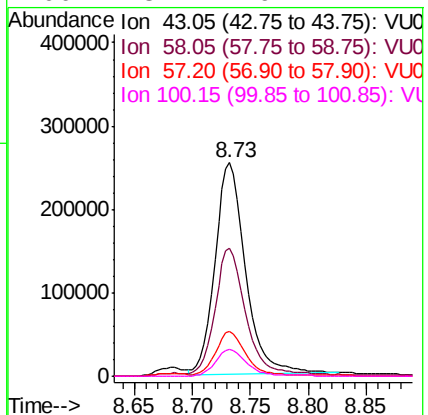
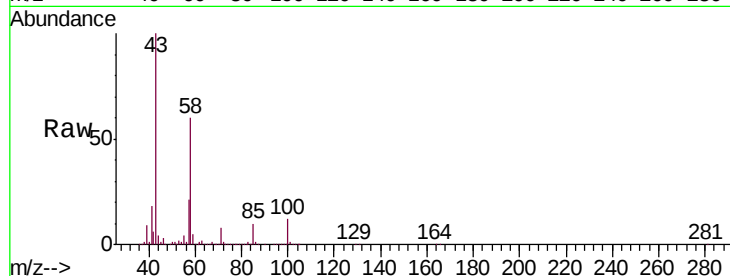




#48  
2-Hexanone  
Concen: 51.942 ug/L  
RT: 8.73 min Scan# 2299  
Delta R.T. 0.00 min  
Lab File: VU035733.D  
Acq: 15 Nov 2019 17:56

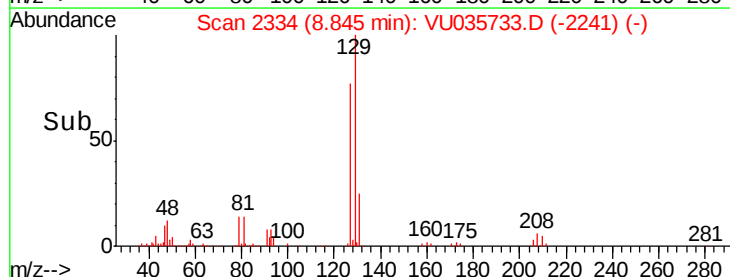
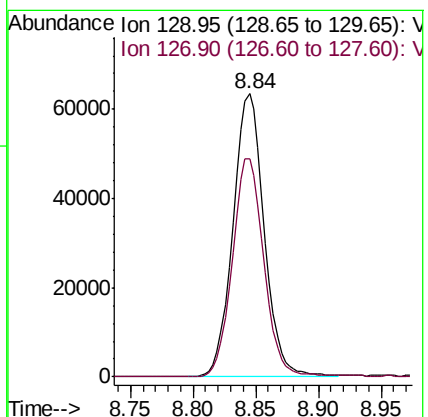
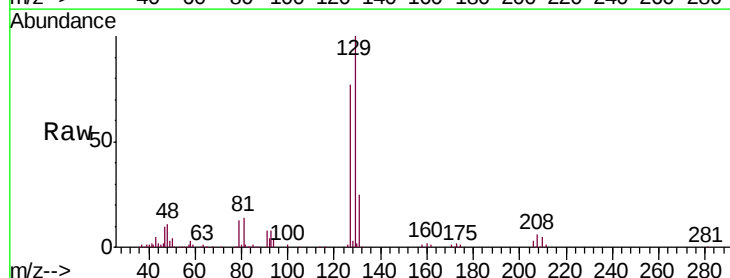
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD00522

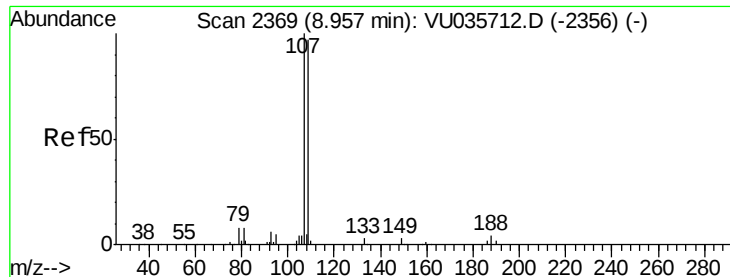
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 465608 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 58       | 59.7  | 44.1  | 66.1   |
| 57       | 21.1  | 15.1  | 22.7   |
| 100      | 13.1  | 9.4   | 14.2   |



#49  
Dibromochloromethane  
Concen: 5.661 ug/L  
RT: 8.84 min Scan# 2334  
Delta R.T. 0.00 min  
Lab File: VU035733.D  
Acq: 15 Nov 2019 17:56

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 129   | Resp: | 109696 |
| Ion      | Ratio | Lower | Upper  |
| 129      | 100   |       |        |
| 127      | 77.2  | 53.1  | 98.5   |

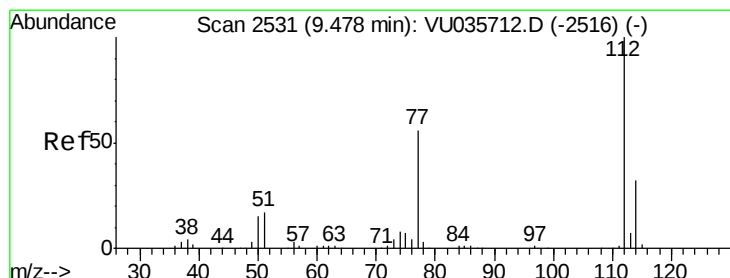
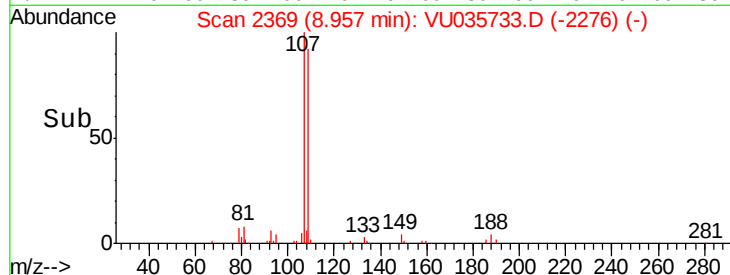
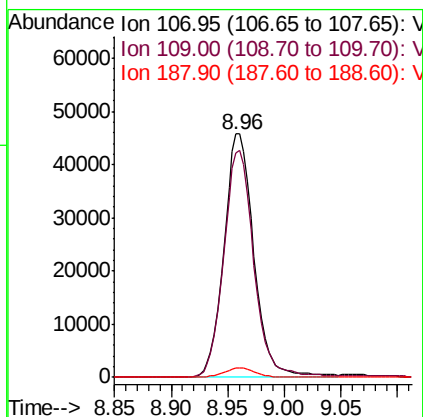
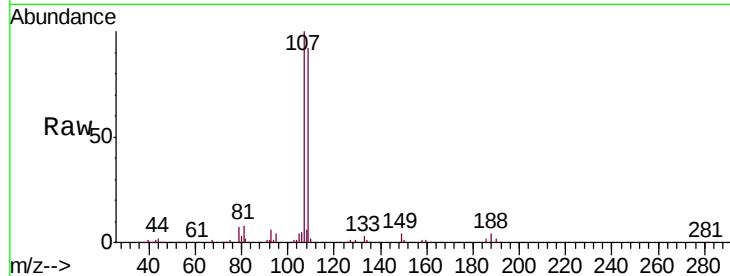




#50  
1,2-Dibromoethane  
Concen: 5.667 ug/L  
RT: 8.96 min Scan# 2369  
Delta R.T. 0.00 min  
Lab File: VU035733.D  
Acq: 15 Nov 2019 17:56

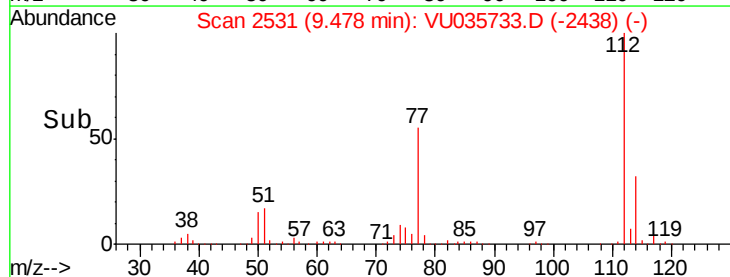
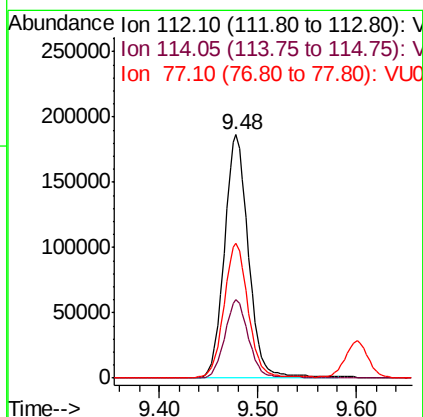
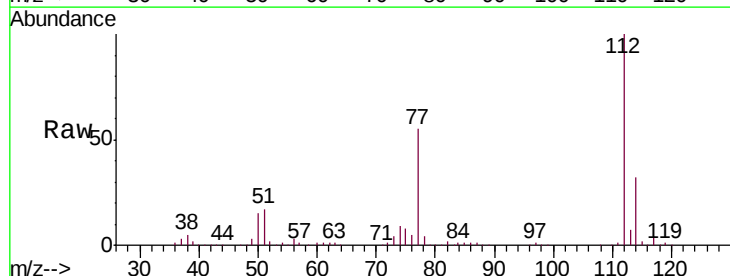
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD00522

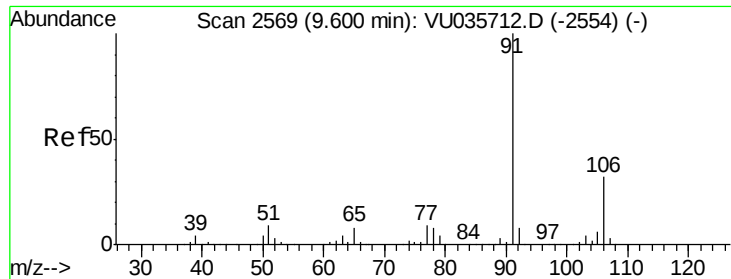
Tgt Ion:107 Resp: 84466  
Ion Ratio Lower Upper  
107 100  
109 92.4 66.5 123.5  
188 4.0 3.1 4.7



#51  
Chlorobenzene  
Concen: 5.567 ug/L  
RT: 9.48 min Scan# 2531  
Delta R.T. 0.00 min  
Lab File: VU035733.D  
Acq: 15 Nov 2019 17:56

Tgt Ion:112 Resp: 320191  
Ion Ratio Lower Upper  
112 100  
114 32.2 22.3 41.5  
77 55.3 44.3 66.5





#52

Ethylbenzene

Concen: 5.347 ug/L

RT: 9.60 min Scan# 2569

Delta R.T. 0.00 min

Lab File: VU035733.D

Acq: 15 Nov 2019 17:56

Instrument :

MSVOA\_U

ClientSampleId :

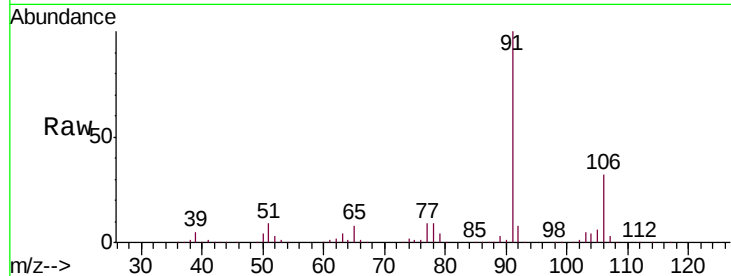
VSTD00522

Tgt Ion: 91 Resp: 492910

Ion Ratio Lower Upper

91 100

106 32.1 22.4 41.6



Abundance Ion 91.15 (90.85 to 91.85): VU035712.D (-2554) (-)

Ion 106.15 (105.85 to 106.85): VU035712.D (-2554) (-)

9.60

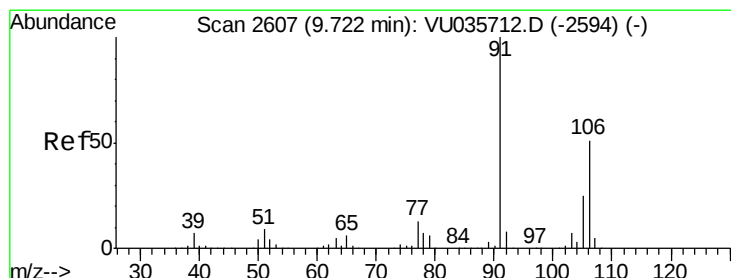
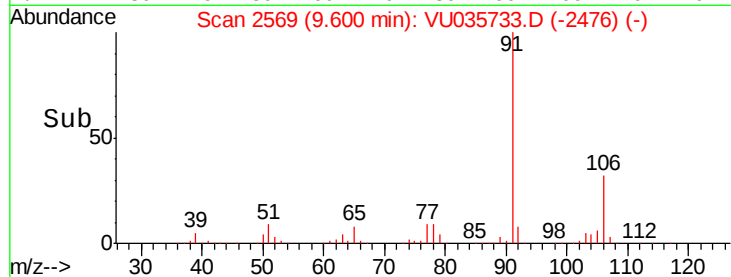
300000

200000

100000

0

Time-->



#53

m,p-Xylene

Concen: 5.643 ug/L

RT: 9.72 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VU035733.D

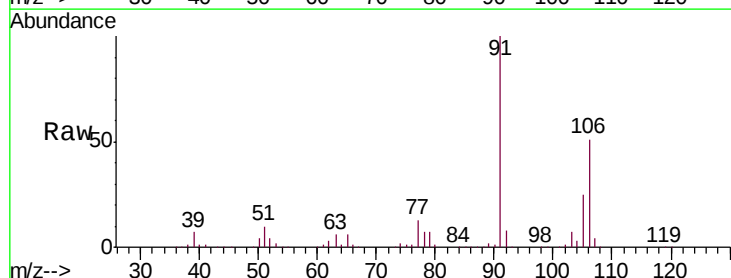
Acq: 15 Nov 2019 17:56

Tgt Ion: 106 Resp: 196971

Ion Ratio Lower Upper

106 100

91 195.1 139.4 259.0



Abundance Ion 106.15 (105.85 to 106.85): VU035712.D (-2594) (-)

Ion 91.15 (90.85 to 91.85): VU035712.D (-2594) (-)

9.72

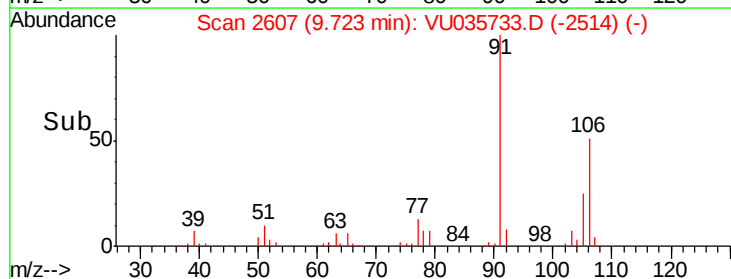
300000

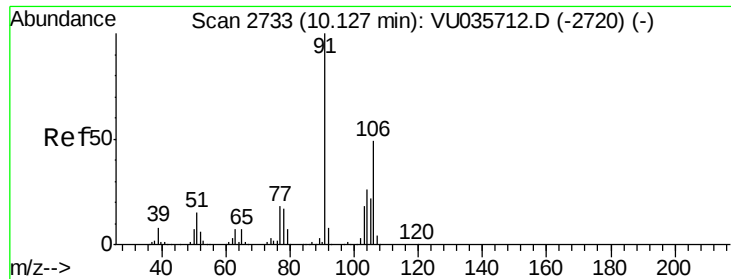
200000

100000

0

Time-->

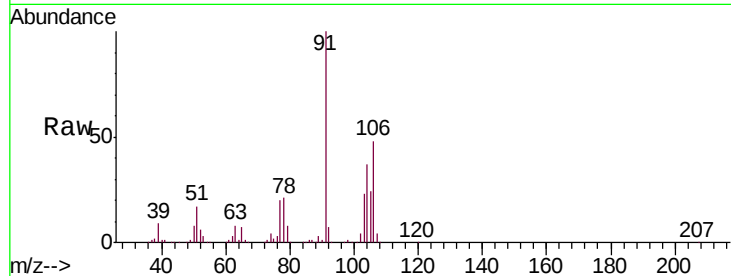




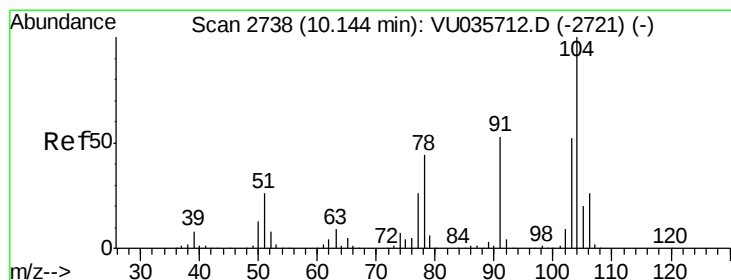
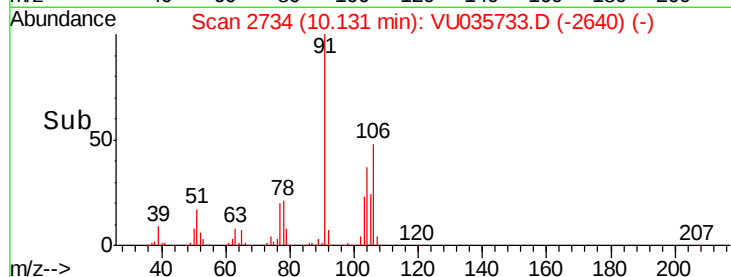
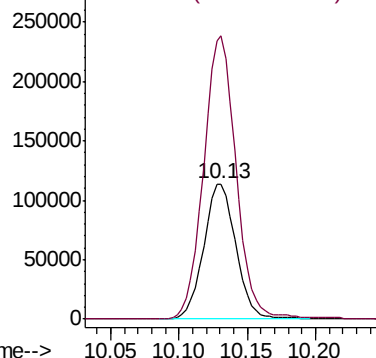
#54  
o-Xylene  
Concen: 5.545 ug/L  
RT: 10.13 min Scan# 2734  
Delta R.T. 0.00 min  
Lab File: VU035733.D  
Acq: 15 Nov 2019 17:56

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD00522

Tgt Ion:106 Resp: 187052  
Ion Ratio Lower Upper  
106 100  
91 209.6 147.7 274.3

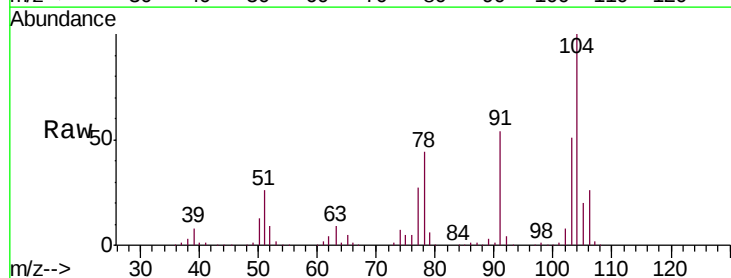


Abundance Ion 106.15 (105.85 to 106.85): V  
Ion 91.15 (90.85 to 91.85): VU0

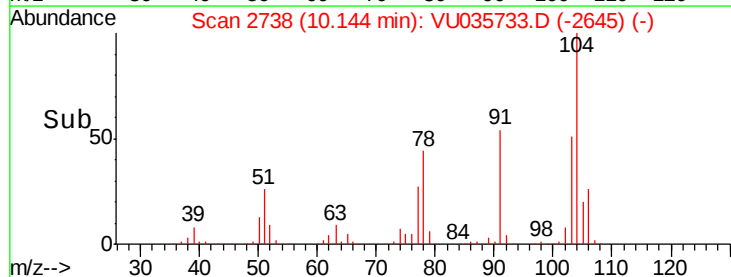
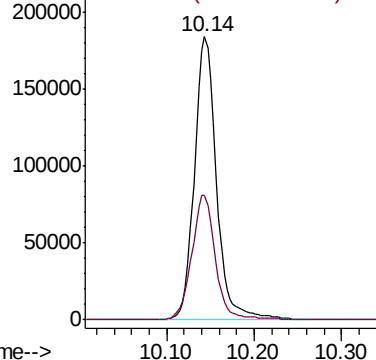


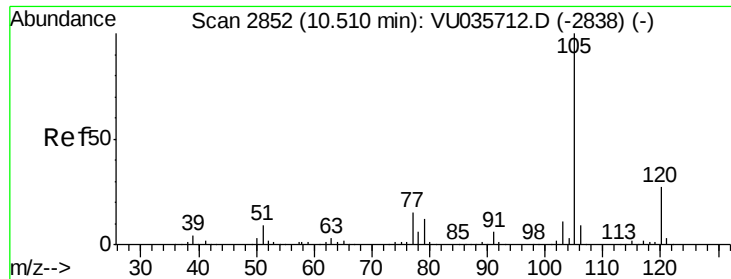
#55  
Styrene  
Concen: 5.815 ug/L  
RT: 10.14 min Scan# 2738  
Delta R.T. 0.00 min  
Lab File: VU035733.D  
Acq: 15 Nov 2019 17:56

Tgt Ion:104 Resp: 324290  
Ion Ratio Lower Upper  
104 100  
78 44.0 30.8 57.2



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





#56

Isopropylbenzene

Concen: 5.459 ug/L

RT: 10.51 min Scan# 2853

Delta R.T. 0.00 min

Lab File: VU035733.D

Acq: 15 Nov 2019 17:56

Instrument :

MSVOA\_U

ClientSampleId :

VSTD00522

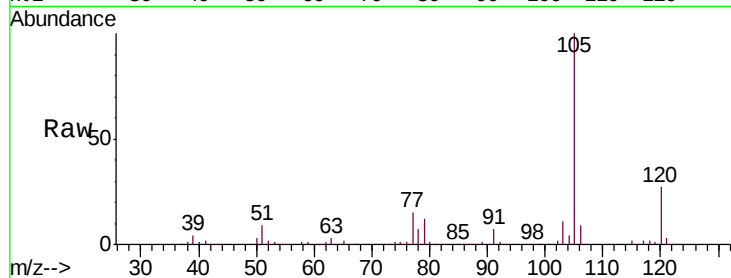
Tgt Ion: 105 Resp: 485962

Ion Ratio Lower Upper

105 100

120 27.0 21.4 32.2

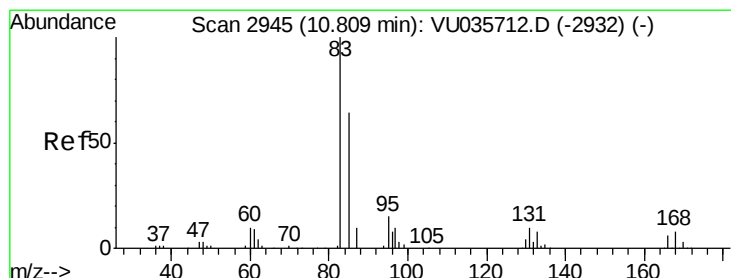
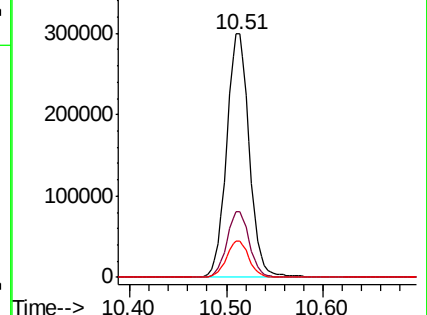
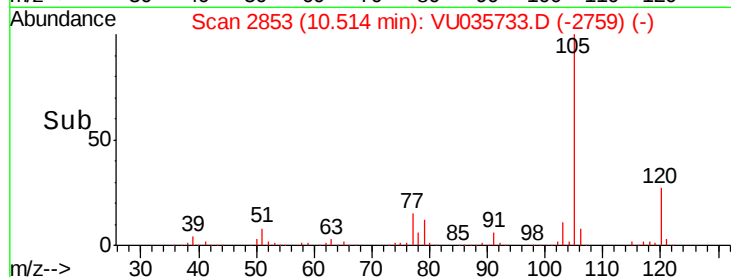
77 15.0 11.8 17.8



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: 5.485 ug/L

RT: 10.81 min Scan# 2946

Delta R.T. 0.00 min

Lab File: VU035733.D

Acq: 15 Nov 2019 17:56

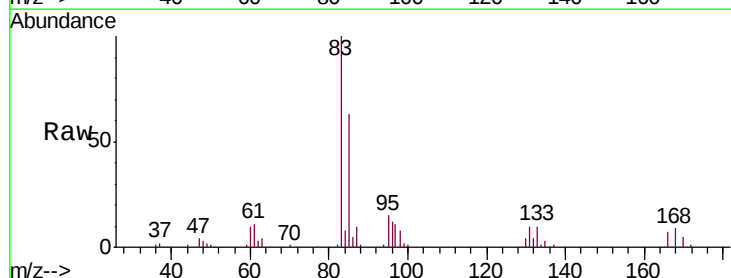
Tgt Ion: 83 Resp: 112567

Ion Ratio Lower Upper

83 100

85 63.4 45.2 84.0

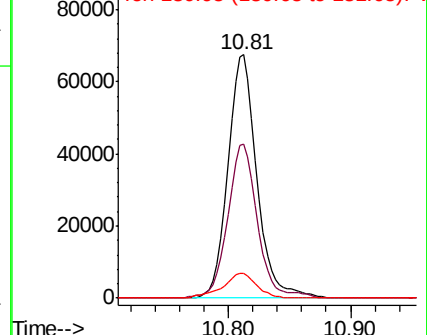
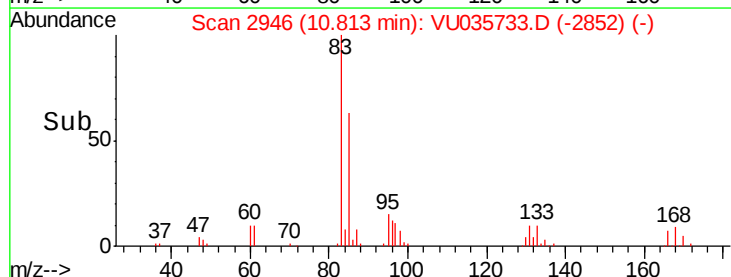
131 10.0 8.2 12.4

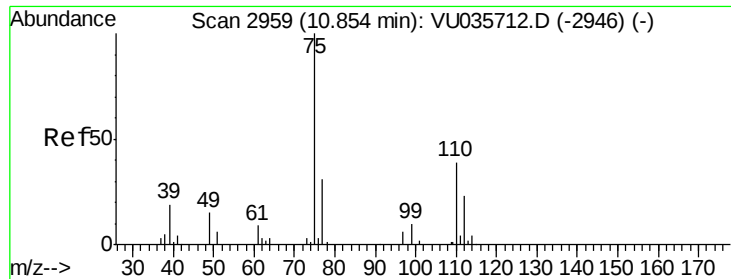


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 5.468 ug/L

RT: 10.85 min Scan# 2958

Delta R.T. -0.00 min

Lab File: VU035733.D

Acq: 15 Nov 2019 17:56

Instrument :

MSVOA\_U

ClientSampleId :

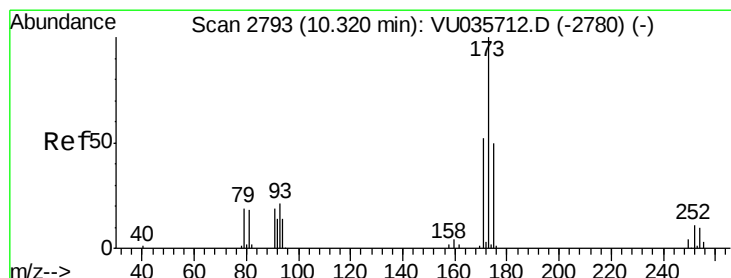
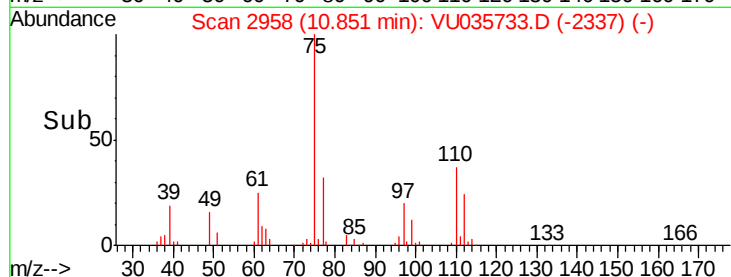
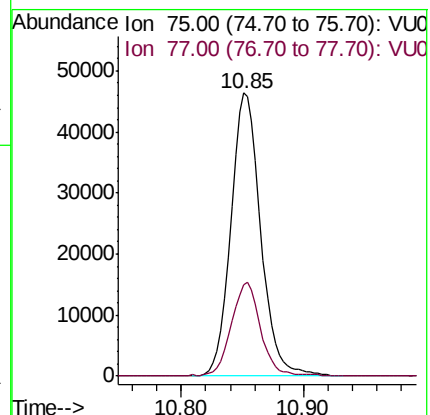
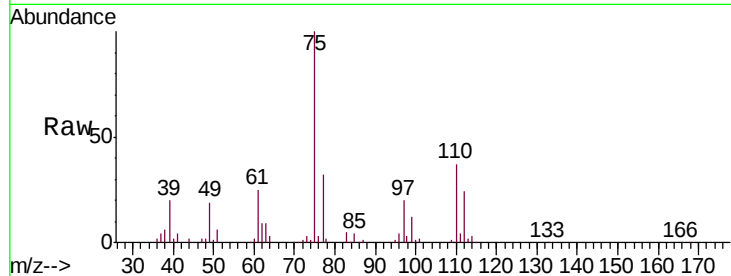
VSTD00522

Tgt Ion: 75 Resp: 79326

Ion Ratio Lower Upper

75 100

77 31.1 26.8 40.2



#61

Bromoform

Concen: 5.109 ug/L

RT: 10.32 min Scan# 2793

Delta R.T. 0.00 min

Lab File: VU035733.D

Acq: 15 Nov 2019 17:56

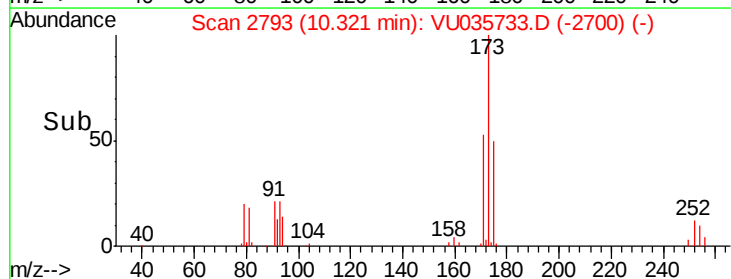
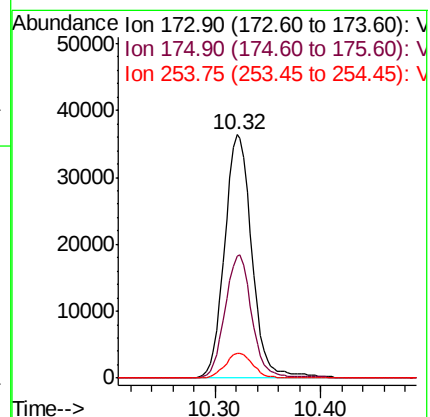
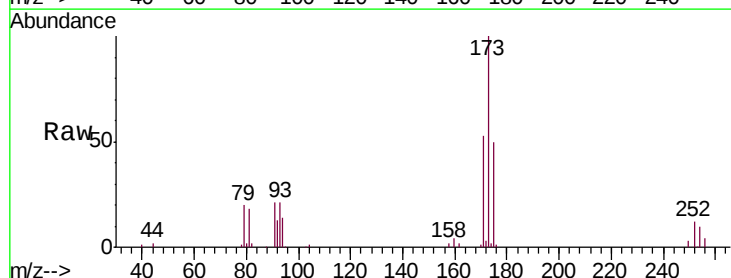
Tgt Ion: 173 Resp: 65270

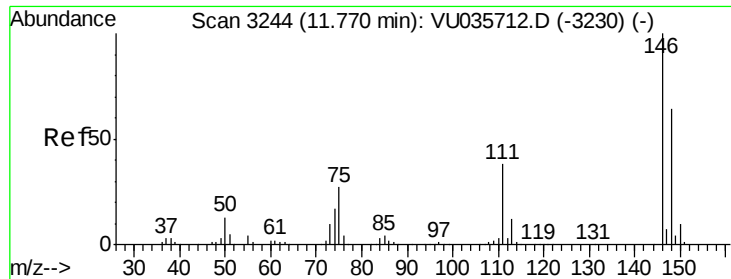
Ion Ratio Lower Upper

173 100

175 49.4 39.0 58.4

254 10.2 8.5 12.7

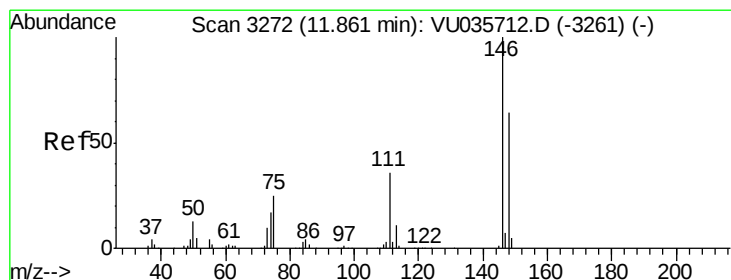
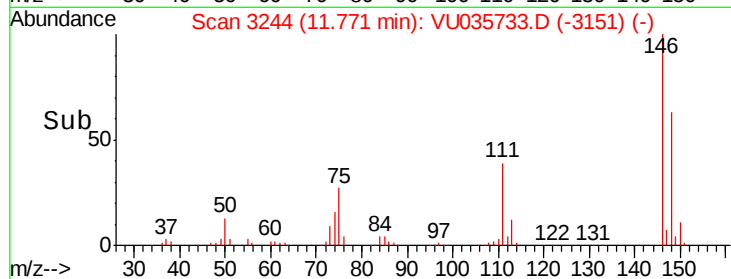
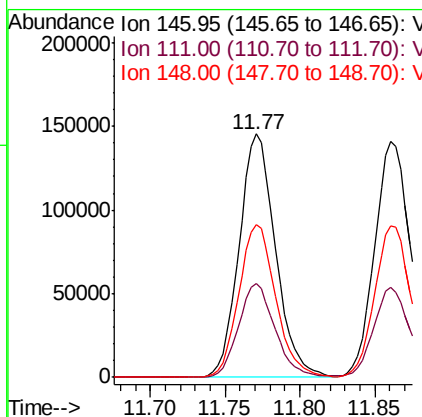
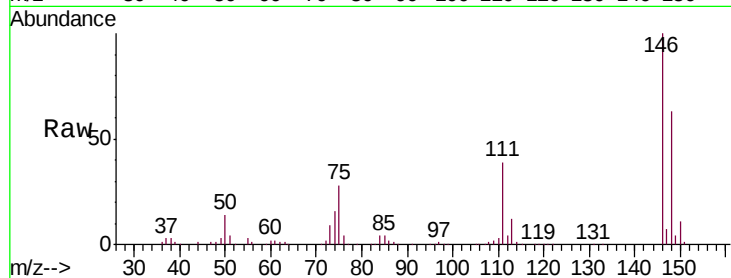




#62  
 1,3-Dichlorobenzene  
 Concen: 5.215 ug/L  
 RT: 11.77 min Scan# 3244  
 Delta R.T. 0.00 min  
 Lab File: VU035733.D  
 Acq: 15 Nov 2019 17:56

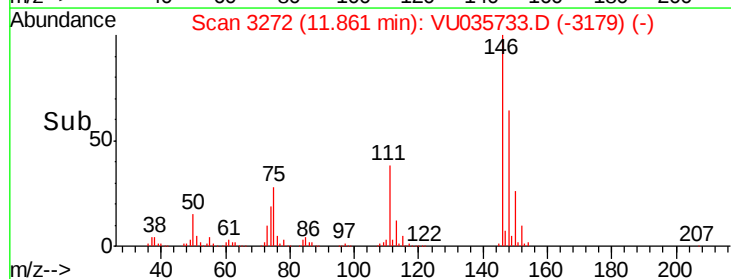
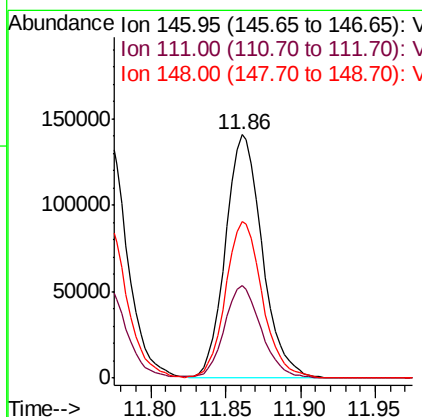
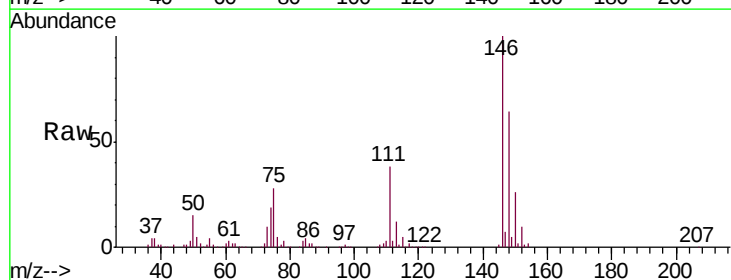
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00522

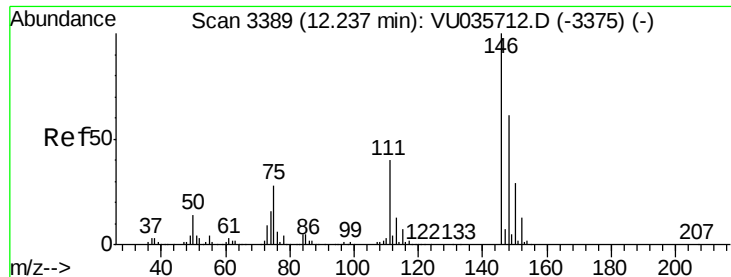
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 38.6  | 26.7  | 49.5  |
| 148     | 62.8  | 44.5  | 82.7  |



#63  
 1,4-Dichlorobenzene  
 Concen: 5.311 ug/L  
 RT: 11.86 min Scan# 3272  
 Delta R.T. 0.00 min  
 Lab File: VU035733.D  
 Acq: 15 Nov 2019 17:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 38.1  | 25.9  | 48.1  |
| 148     | 64.1  | 44.1  | 81.9  |

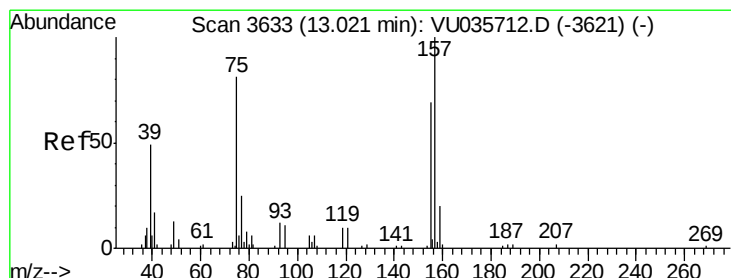
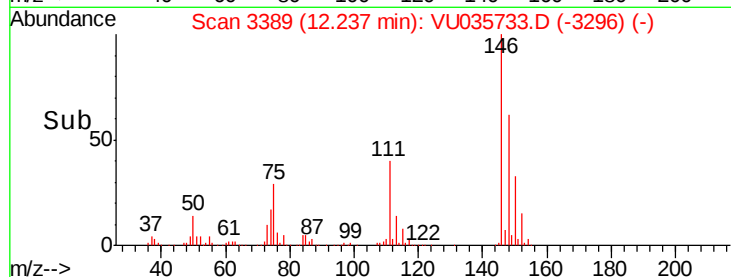
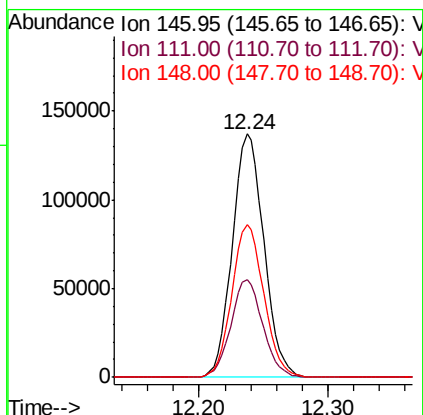
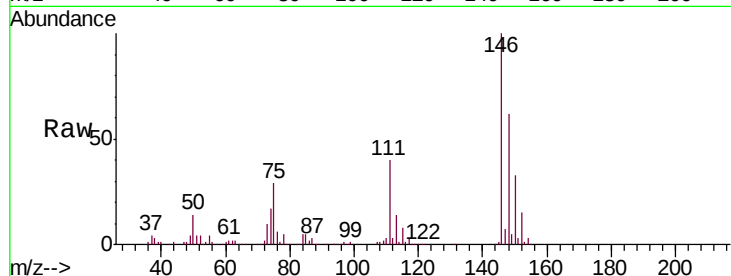




#65  
 1,2-Dichlorobenzene  
 Concen: 5.259 ug/L  
 RT: 12.24 min Scan# 3389  
 Delta R.T. 0.00 min  
 Lab File: VU035733.D  
 Acq: 15 Nov 2019 17:56

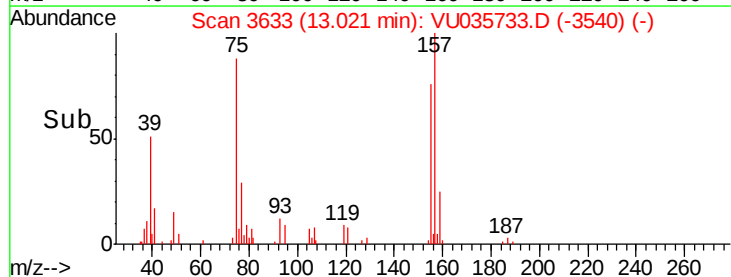
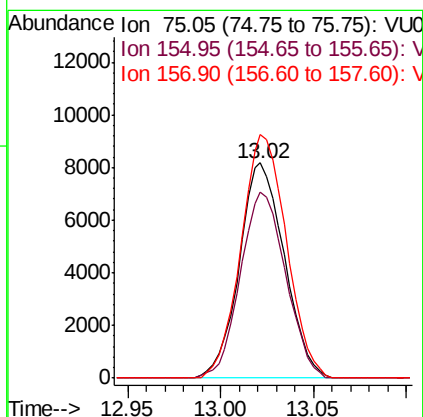
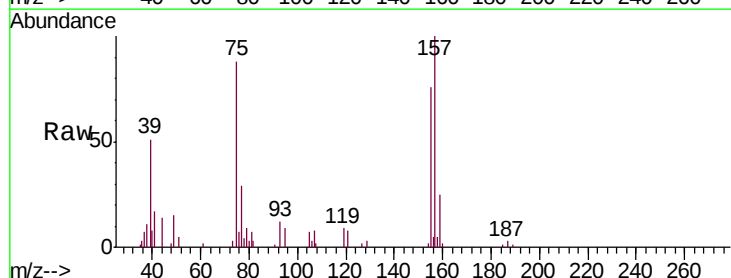
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00522

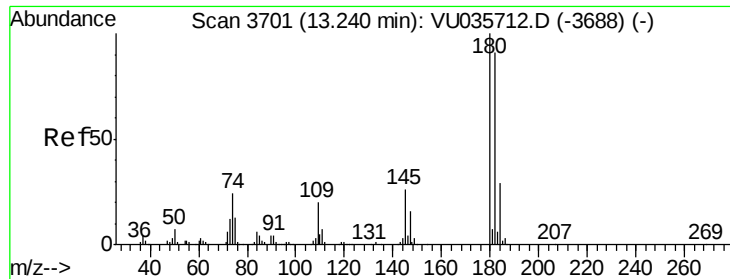
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 39.9  | 32.2  | 48.4  |
| 148     | 62.5  | 50.7  | 76.1  |



#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 4.904 ug/L  
 RT: 13.02 min Scan# 3633  
 Delta R.T. 0.00 min  
 Lab File: VU035733.D  
 Acq: 15 Nov 2019 17:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 155     | 86.4  | 73.3  | 109.9 |
| 157     | 113.1 | 102.2 | 153.4 |

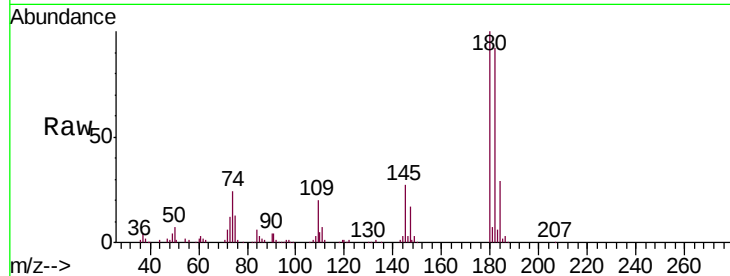




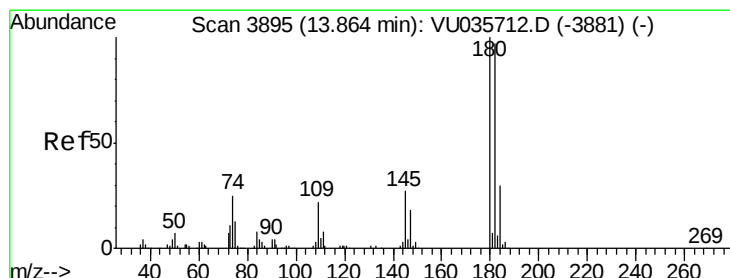
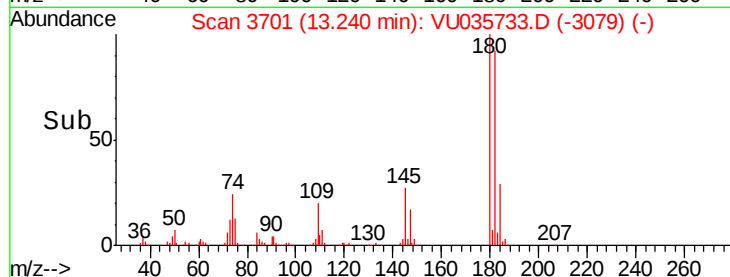
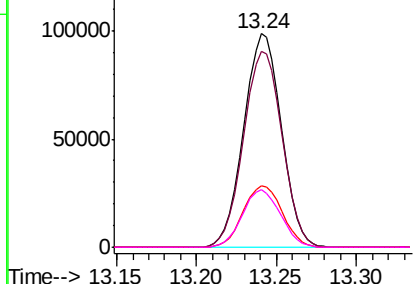
#67  
 1,3,5-Trichlorobenzene  
 Concen: 5.200 ug/L  
 RT: 13.24 min Scan# 3701  
 Delta R.T. 0.00 min  
 Lab File: VU035733.D  
 Acq: 15 Nov 2019 17:56

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00522

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 180   | Resp: | 158420 |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 94.0  | 75.9  | 113.9  |
| 184      | 30.1  | 24.1  | 36.1   |
| 145      | 27.2  | 21.5  | 32.3   |

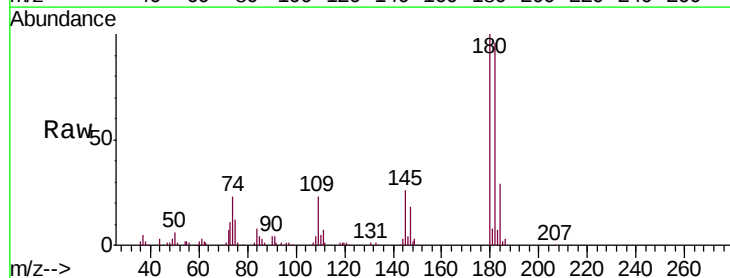


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

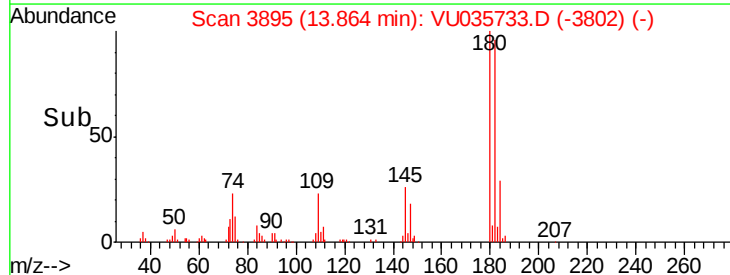
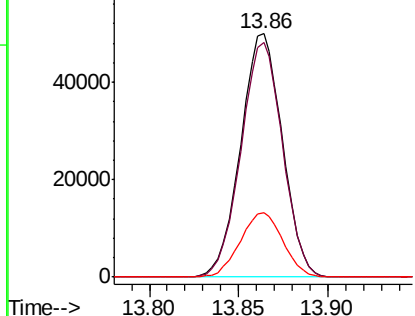


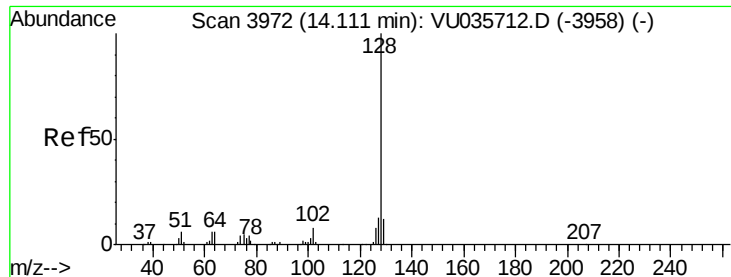
#68  
 1,2,4-trichlorobenzene  
 Concen: 4.442 ug/L  
 RT: 13.86 min Scan# 3895  
 Delta R.T. 0.00 min  
 Lab File: VU035733.D  
 Acq: 15 Nov 2019 17:56

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 81534 |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 96.3  | 77.4  | 116.2 |
| 145      | 26.9  | 22.2  | 33.4  |



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: 3.494 ug/L

RT: 14.11 min Scan# 3972

Delta R.T. 0.00 min

Lab File: VU035733.D

Acq: 15 Nov 2019 17:56

Instrument :

MSVOA\_U

ClientSampleId :

VSTD00522

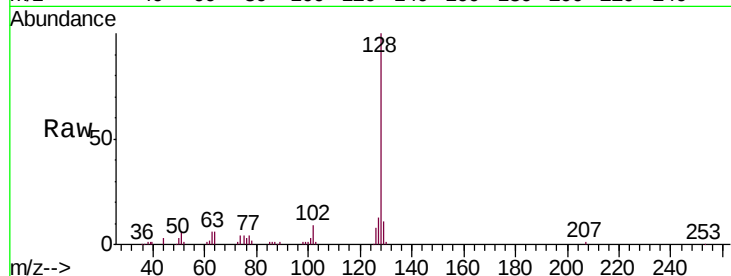
Tgt Ion:128 Resp: 78964

Ion Ratio Lower Upper

128 100

129 10.5 8.1 12.1

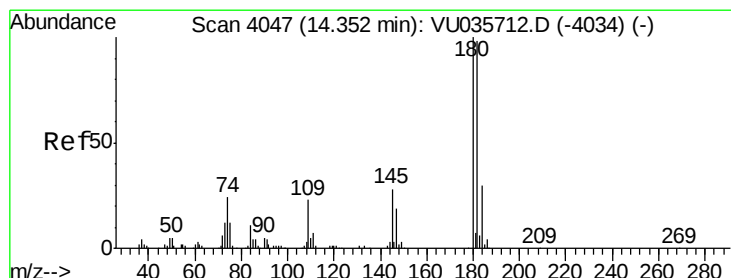
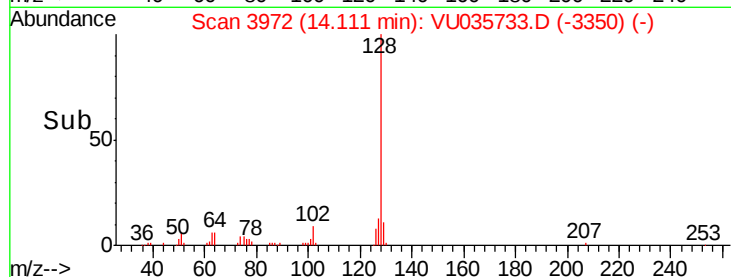
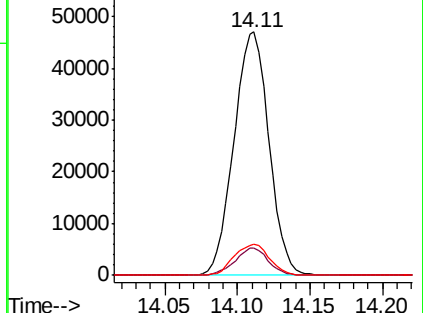
127 12.9 11.0 16.4



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: 4.466 ug/L

RT: 14.35 min Scan# 4047

Delta R.T. 0.00 min

Lab File: VU035733.D

Acq: 15 Nov 2019 17:56

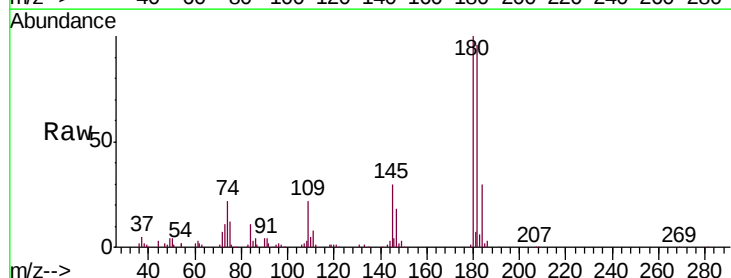
Tgt Ion:180 Resp: 79258

Ion Ratio Lower Upper

180 100

182 96.7 74.8 112.2

145 30.0 23.6 35.4



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

