

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU073119\  
 Data File : VU033515.D  
 Acq On : 31 Jul 2019 11:03  
 Operator : JC/SP  
 Sample : K4103-01  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 DB9A5

Quant Time: Aug 01 07:40:48 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM073119WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Aug 01 07:20:33 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.86  | 114  | 317027   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 307856   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.47 | 152  | 156287   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |          |
|--------------------------------|---------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 1.39    | 65    | 104362   | 45.28    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 90.56%   |
| 7) Chloroethane-d5             | 1.66    | 69    | 164084   | 82.97    | ug/L | -0.01    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 165.94%# |
| 11) 1,1-Dichloroethene-d2      | 2.26    | 63    | 223805   | 53.50    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 107.00%  |
| 21) 2-Butanone-d5              | 4.15    | 46    | 152275   | 99.74    | ug/L | 0.00     |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 99.74%   |
| 24) Chloroform-d               | 4.62    | 84    | 197584   | 51.14    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 102.28%  |
| 26) 1,2-Dichloroethane-d4      | 5.29    | 65    | 120908   | 49.41    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 98.82%   |
| 32) Benzene-d6                 | 5.32    | 84    | 381838   | 50.03    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 100.06%  |
| 36) 1,2-Dichloropropane-d6     | 6.31    | 67    | 123108   | 51.46    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 102.92%  |
| 41) Toluene-d8                 | 7.55    | 98    | 350309   | 48.98    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 97.96%   |
| 43) trans-1,3-Dichloropropene- | 7.83    | 79    | 59273    | 49.95    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 99.90%   |
| 47) 2-Hexanone-d5              | 8.30    | 63    | 116590   | 102.65   | ug/L | 0.00     |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 102.65%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.41   | 84    | 183850   | 49.84    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 99.68%   |
| 64) 1,2-Dichlorobenzene-d4     | 11.85   | 152   | 138221   | 48.30    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 96.60%   |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc   | Units | Ovalue |
|--------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane     | 1.20 | 85   | 69761    | 23.334 | ug/L  | 99     |
| 3) Chloromethane               | 1.32 | 50   | 77876    | 25.860 | ug/L  | 98     |
| 5) Vinyl chloride              | 1.39 | 62   | 169007   | 52.352 | ug/L  | 100    |
| 6) Bromomethane                | 1.61 | 94   | 74458    | 26.141 | ug/L  | 99     |
| 8) Chloroethane                | 1.68 | 64   | 65834    | 33.561 | ug/L  | 96     |
| 9) Trichlorofluoromethane      | 1.87 | 101  | 195970   | 46.406 | ug/L  | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.27 | 101  | 49882    | 23.300 | ug/L  | 99     |
| 12) 1,1-Dichloroethene         | 2.27 | 96   | 140074   | 68.228 | ug/L  | 93     |
| 16) Methylene chloride         | 2.68 | 84   | 104301   | 44.478 | ug/L  | 96     |
| 17) trans-1,2-Dichloroethene   | 2.96 | 96   | 46037    | 21.403 | ug/L  | 99     |
| 19) 1,1-Dichloroethane         | 3.42 | 63   | 274921   | 68.094 | ug/L  | 99     |
| 20) cis-1,2-Dichloroethene     | 4.20 | 96   | 102966   | 42.649 | ug/L  | 91     |
| 23) Bromochloromethane         | 4.52 | 128  | 55452    | 44.021 | ug/L  | 95     |
| 25) Chloroform                 | 4.65 | 83   | 257199   | 60.536 | ug/L  | 99     |
| 27) 1,2-Dichloroethane         | 5.38 | 62   | 240585   | 73.538 | ug/L  | 99     |
| 30) 1,1,1-Trichloroethane      | 4.89 | 97   | 78314    | 22.108 | ug/L  | 100    |
| 31) Carbon tetrachloride       | 5.11 | 117  | 204657   | 66.345 | ug/L  | 100    |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU073119\  
 Data File : VU033515.D  
 Acq On : 31 Jul 2019 11:03  
 Operator : JC/SP  
 Sample : K4103-01  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 DB9A5

Quant Time: Aug 01 07:40:48 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM073119WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Aug 01 07:20:33 2019  
 Response via : Initial Calibration

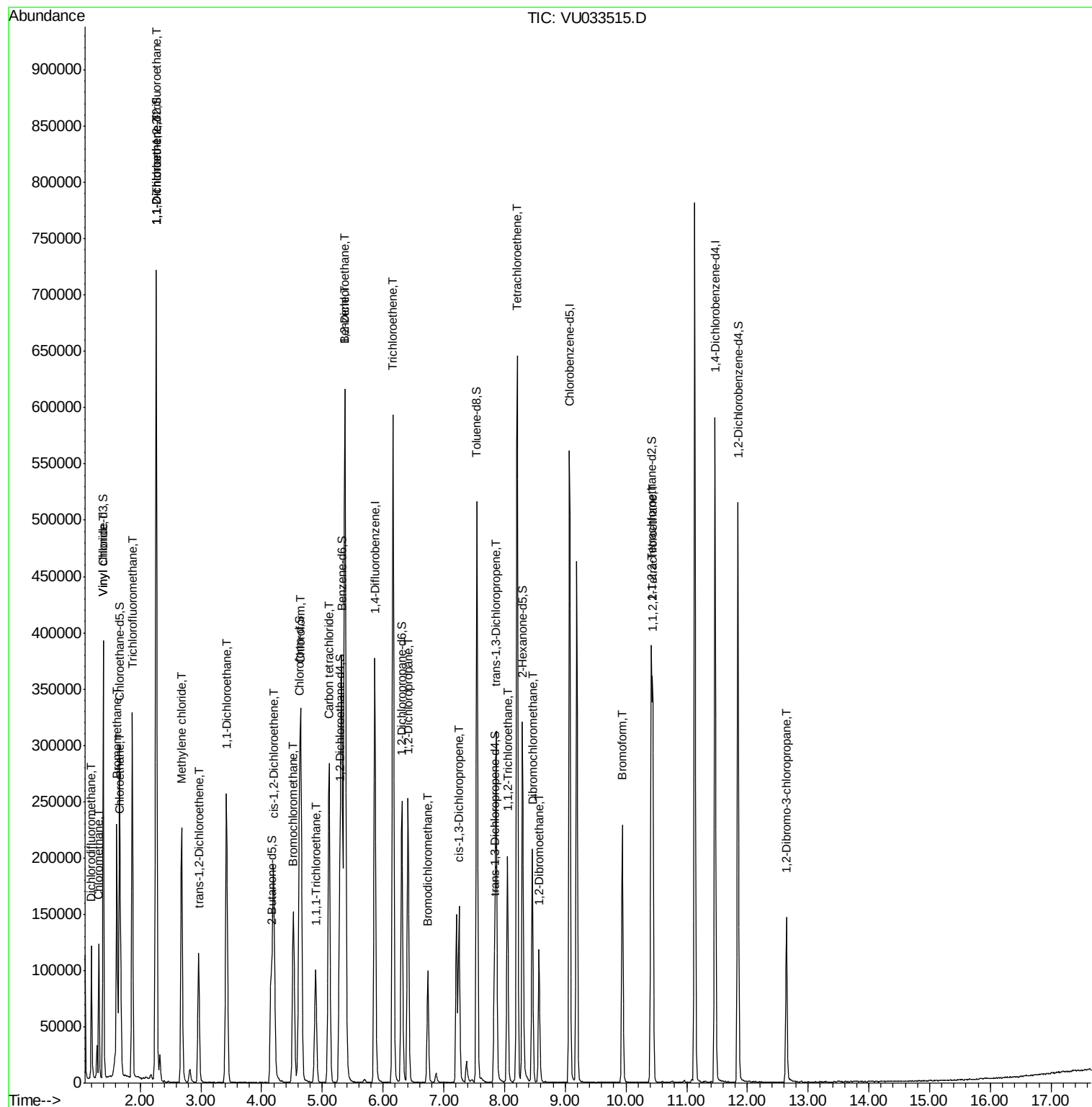
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| -----                          |       |      |          |        |       |          |
| 33) Benzene                    | 5.37  | 78   | 439743   | 49.514 | ug/L  | 100      |
| 34) Trichloroethene            | 6.16  | 95   | 202158   | 86.292 | ug/L  | 99       |
| 37) 1,2-Dichloropropane        | 6.41  | 63   | 101921   | 42.874 | ug/L  | 100      |
| 38) Bromodichloromethane       | 6.74  | 83   | 66578    | 21.664 | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene    | 7.25  | 75   | 93008    | 25.067 | ug/L  | 97       |
| 44) trans-1,3-Dichloropropene  | 7.86  | 75   | 173144   | 51.636 | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane      | 8.05  | 97   | 62001    | 27.473 | ug/L  | 100      |
| 46) Tetrachloroethene          | 8.21  | 164  | 143097   | 74.818 | ug/L  | 98       |
| 49) Dibromochloromethane       | 8.46  | 129  | 108227   | 42.150 | ug/L  | 99       |
| 50) 1,2-Dibromoethane          | 8.57  | 107  | 78387    | 31.357 | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 10.44 | 83   | 161898   | 39.774 | ug/L  | 99       |
| 61) Bromoform                  | 9.94  | 173  | 104726   | 55.473 | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan | 12.64 | 75   | 38178    | 42.579 | ug/L  | 99       |
| -----                          |       |      |          |        |       |          |

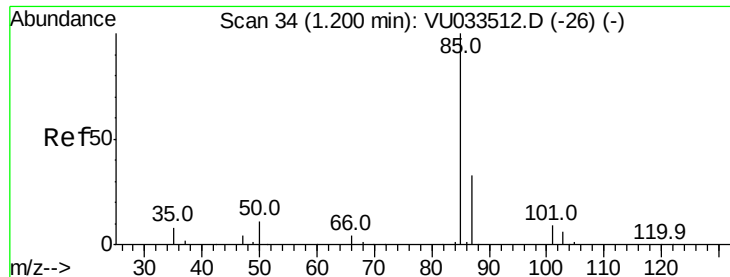
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU073119\  
Data File : VU033515.D  
Acq On : 31 Jul 2019 11:03  
Operator : JC/SP  
Sample : K4103-01  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
DB9A5

Quant Time: Aug 01 07:40:48 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM073119WMA.M  
Quant Title : VOC Analysis  
QLast Update : Thu Aug 01 07:20:33 2019  
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 23.334 ug/L

RT: 1.20 min Scan# 33

Delta R.T. -0.00 min

Lab File: VU033515.D

Acq: 31 Jul 2019 11:03

Instrument :

MSVOA\_U

ClientSampleId :

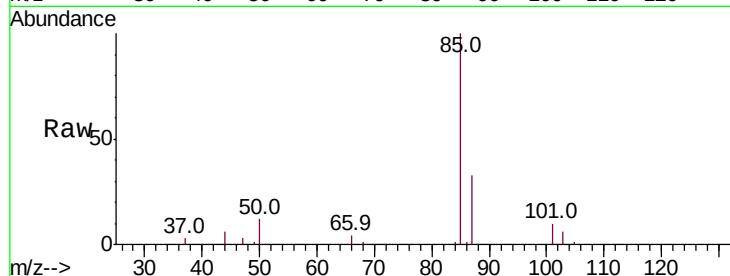
DB9A5

Tot Ion: 85 Resp: 69761

Ion Ratio Lower Upper

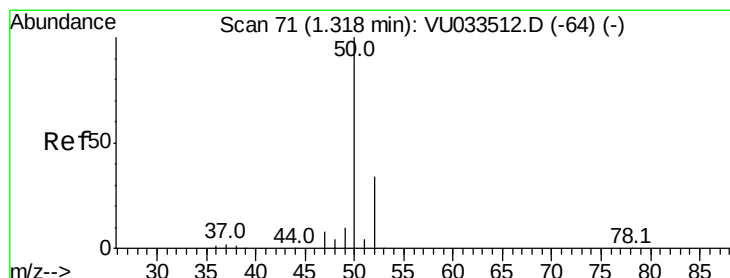
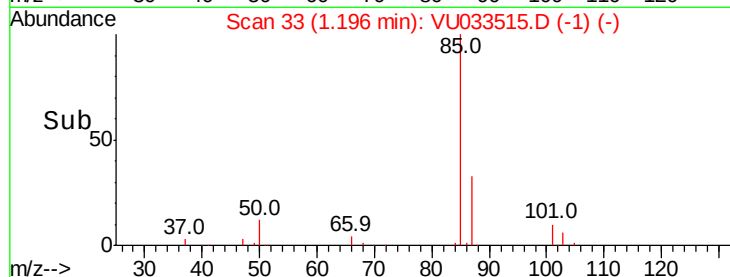
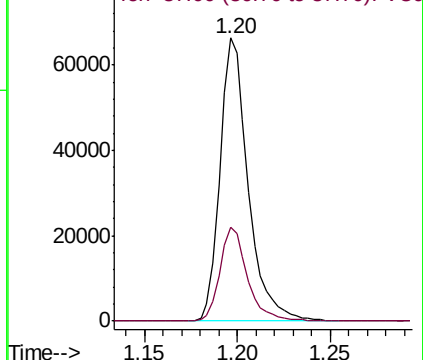
85 100

87 32.4 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 25.860 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU033515.D

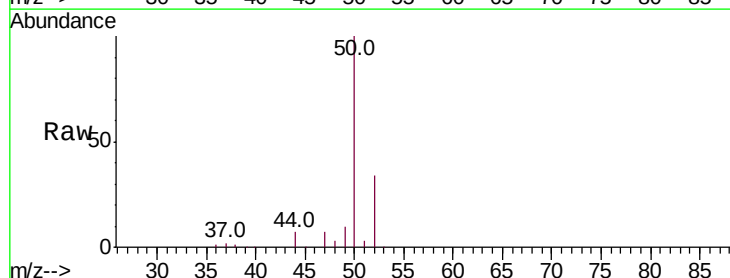
Acq: 31 Jul 2019 11:03

Tgt Ion: 50 Resp: 77876

Ion Ratio Lower Upper

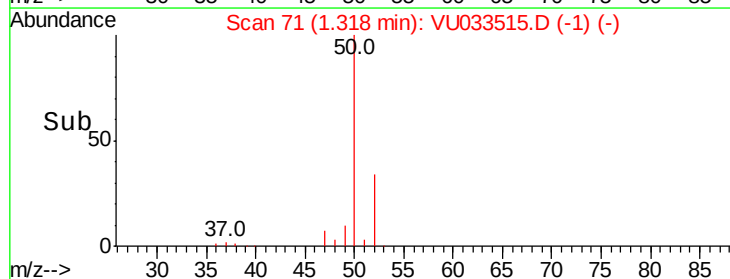
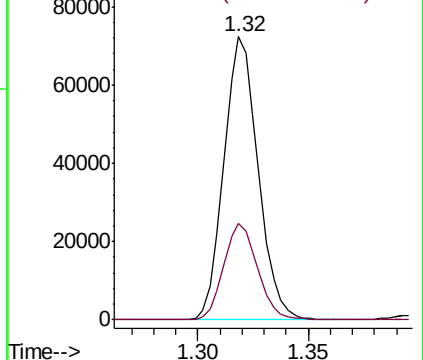
50 100

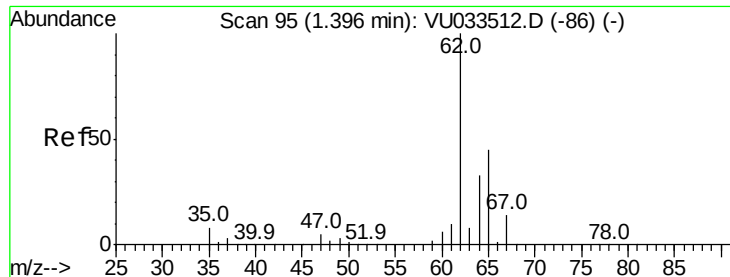
52 34.2 23.1 42.9



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0





#5

Vinyl chloride

Concen: 52.352 ug/L

RT: 1.39 min Scan# 94

Delta R.T. -0.00 min

Lab File: VU033515.D

Acq: 31 Jul 2019 11:03

Instrument :

MSVOA\_U

ClientSampleId :

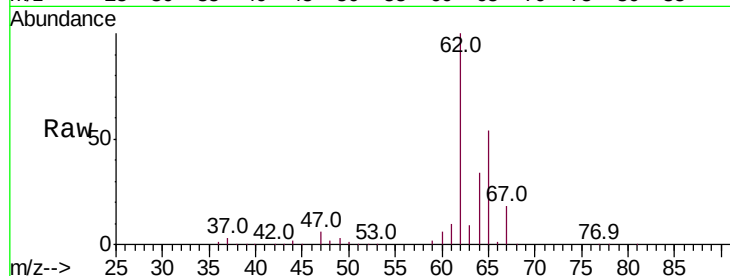
DB9A5

Tot Ion: 62 Resp: 169007

Ion Ratio Lower Upper

62 100

64 33.5 23.4 43.4



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0

1.39

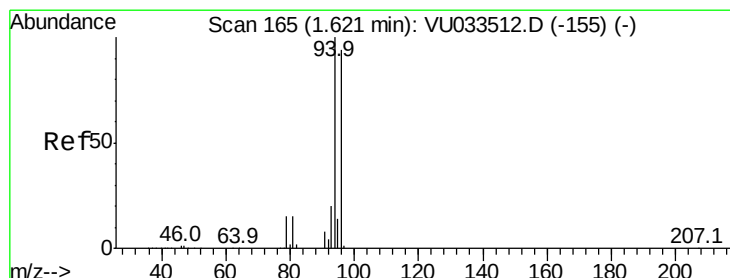
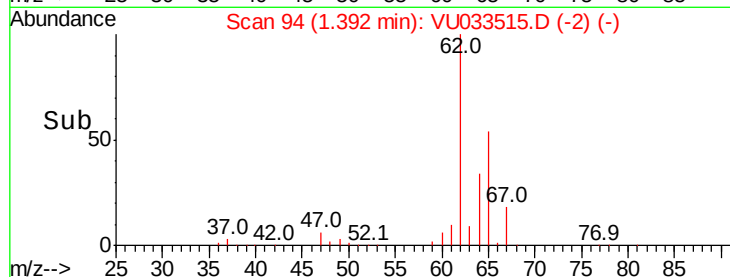
150000

100000

50000

0

Time-->



#6

Bromomethane

Concen: 26.141 ug/L

RT: 1.61 min Scan# 163

Delta R.T. -0.01 min

Lab File: VU033515.D

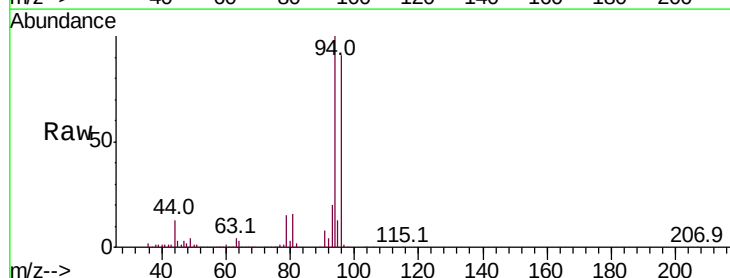
Acq: 31 Jul 2019 11:03

Tgt Ion: 94 Resp: 74458

Ion Ratio Lower Upper

94 100

96 91.5 64.4 119.6



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

80000

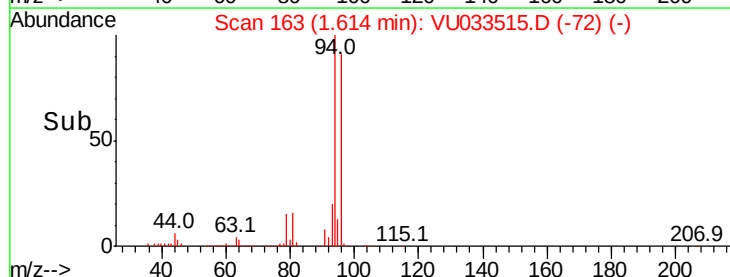
60000

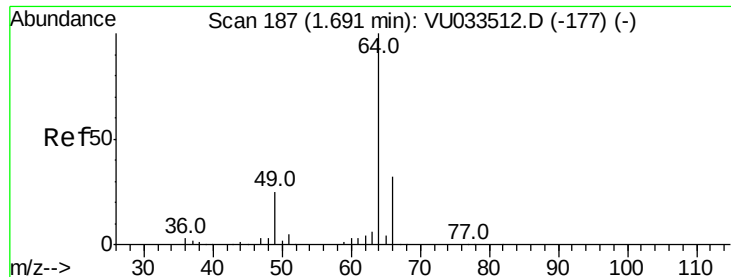
40000

20000

0

Time-->





#8

Chloroethane

Concen: 33.561 ug/L

RT: 1.68 min Scan# 183

Delta R.T. -0.01 min

Lab File: VU033515.D

Acq: 31 Jul 2019 11:03

Instrument :

MSVOA\_U

ClientSampleId :

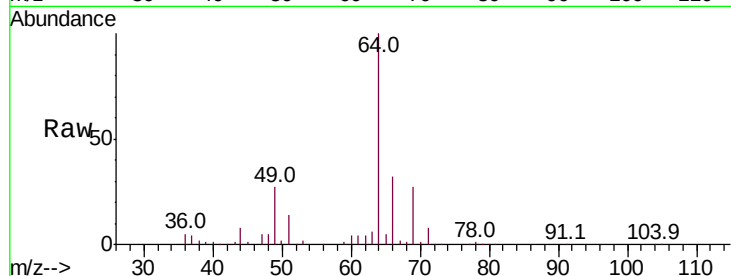
DB9A5

Tot Ion: 64 Resp: 65834

Ion Ratio Lower Upper

64 100

66 32.1 21.1 39.3

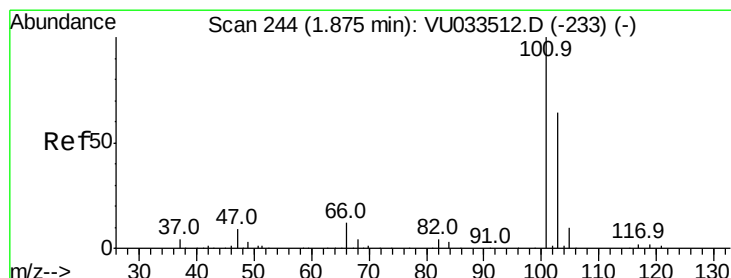
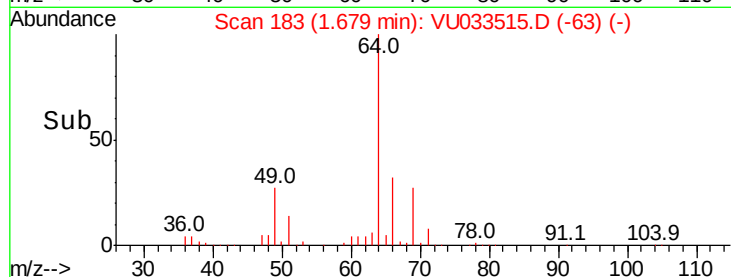


Abundance Ion 64.00 (63.70 to 64.70): VU033512.D (-177) (-)

Ion 66.00 (65.70 to 66.70): VU033512.D (-177) (-)

1.68

Time-->



#9

Trichlorofluoromethane

Concen: 46.406 ug/L

RT: 1.87 min Scan# 243

Delta R.T. -0.00 min

Lab File: VU033515.D

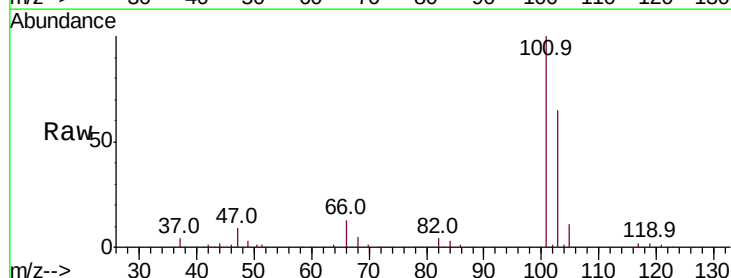
Acq: 31 Jul 2019 11:03

Tgt Ion: 101 Resp: 195970

Ion Ratio Lower Upper

101 100

103 65.1 51.6 77.4

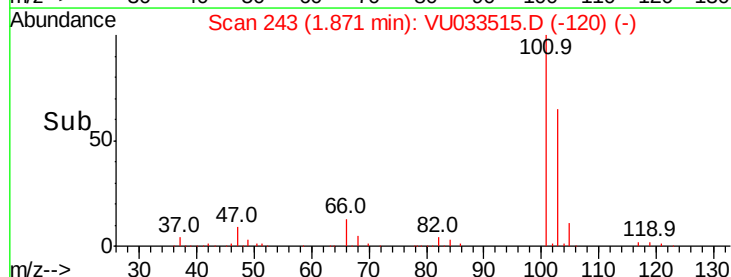


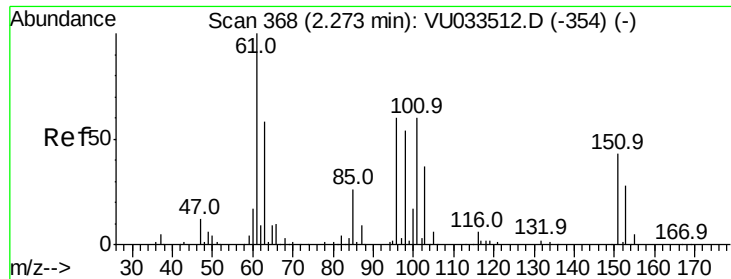
Abundance Ion 101.00 (100.70 to 101.70): VU033512.D (-233) (-)

Ion 103.00 (102.70 to 103.70): VU033512.D (-233) (-)

1.87

Time-->





#10

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

Concen: 23.300 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU033515.D

Acq: 31 Jul 2019 11:03

Instrument :

MSVOA\_U

ClientSampleId :

DB9A5

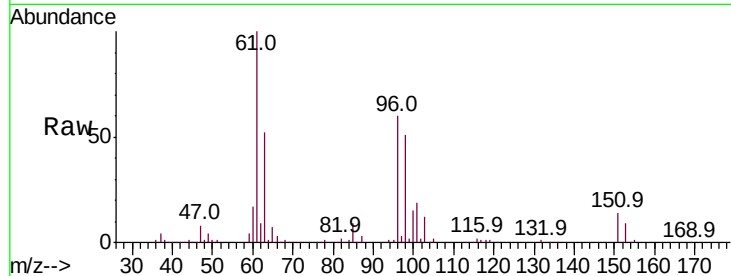
Tot Ion:101 Resp: 49882

Ion Ratio Lower Upper

101 100

85 44.0 35.8 53.8

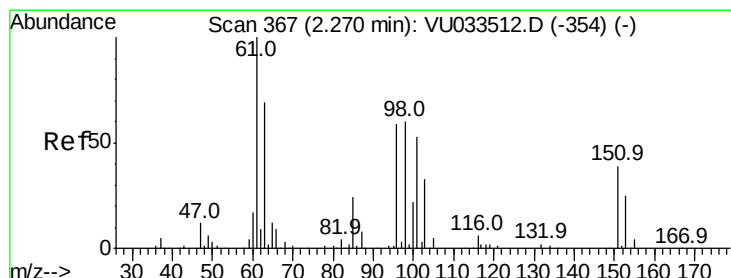
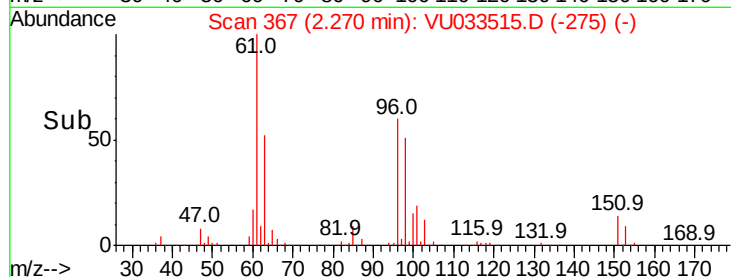
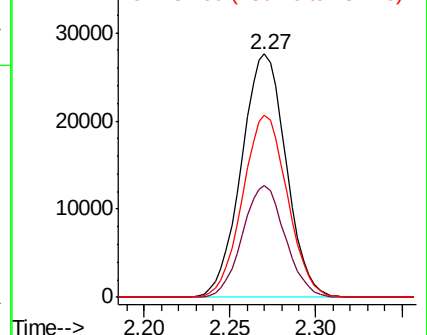
151 75.0 60.1 90.1



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: 68.228 ug/L

RT: 2.27 min Scan# 366

Delta R.T. -0.00 min

Lab File: VU033515.D

Acq: 31 Jul 2019 11:03

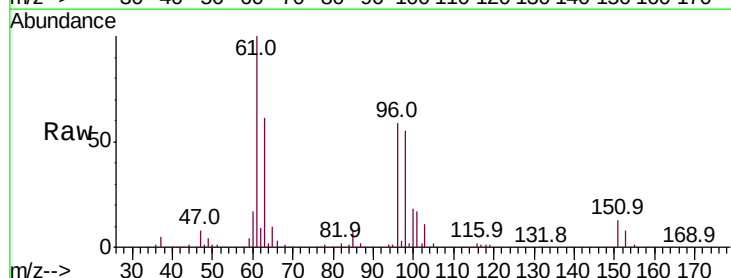
Tgt Ion: 96 Resp: 140074

Ion Ratio Lower Upper

96 100

61 170.4 119.3 221.5

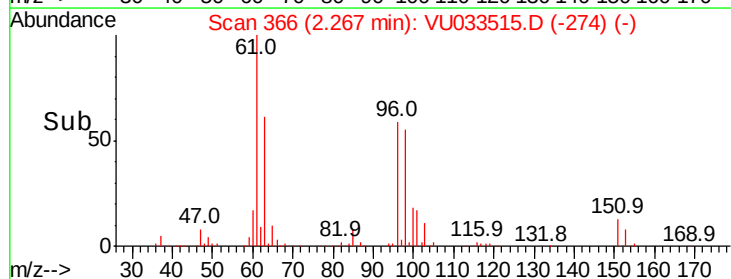
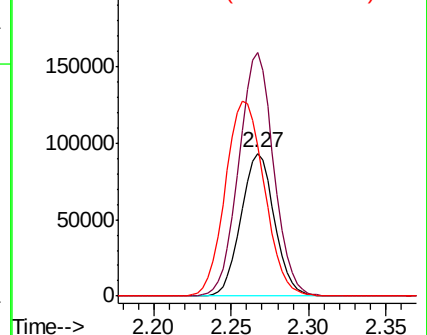
63 104.7 86.6 160.8

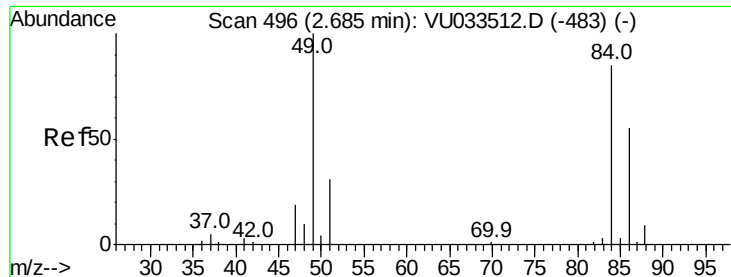


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0

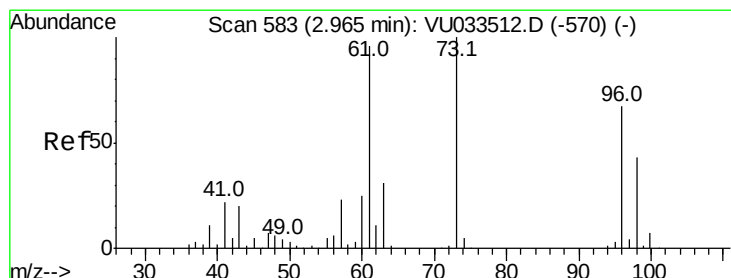
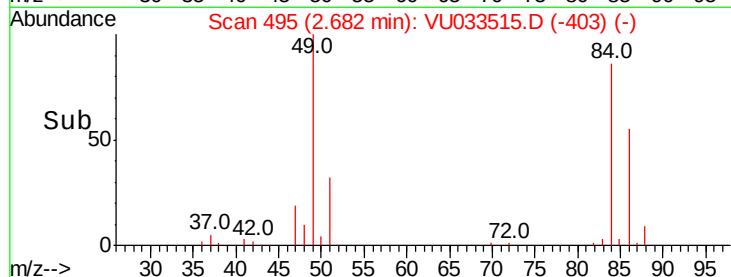
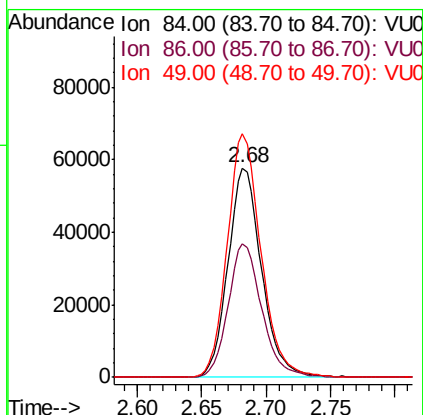
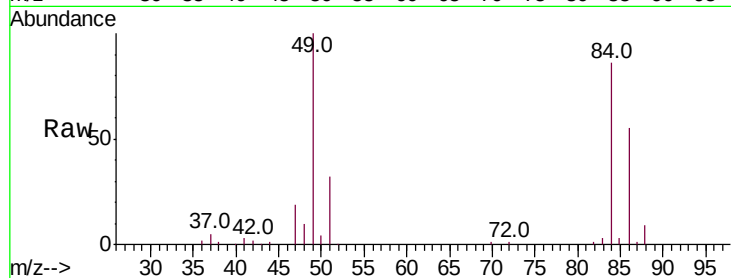




#16  
Methvlene chloride  
Concen: 44.478 ug/L  
RT: 2.68 min Scan# 495  
Delta R.T. -0.00 min  
Lab File: VU033515.D  
Acq: 31 Jul 2019 11:03

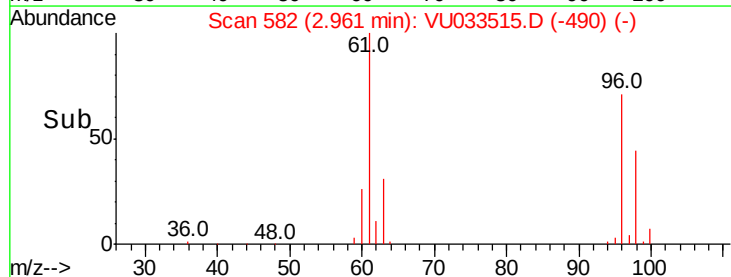
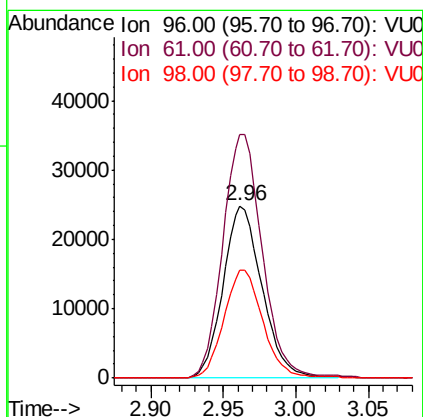
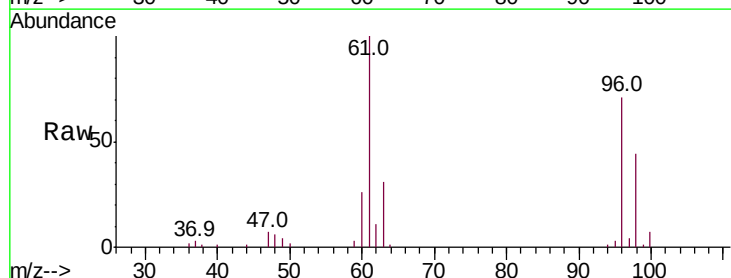
Instrument :  
MSVOA\_U  
ClientSampled :  
DB9A5

Tot Ion: 84 Resp: 104301  
Ion Ratio Lower Upper  
84 100  
86 63.8 45.7 84.9  
49 116.3 85.0 158.0

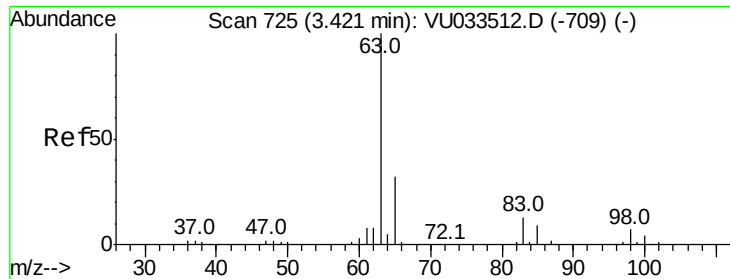


#17  
trans-1,2-Dichloroethene  
Concen: 21.403 ug/L  
RT: 2.96 min Scan# 582  
Delta R.T. -0.00 min  
Lab File: VU033515.D  
Acq: 31 Jul 2019 11:03

Tgt Ion: 96 Resp: 46037  
Ion Ratio Lower Upper  
96 100  
61 141.5 98.3 182.5  
98 62.9 44.3 82.3







#19

1,1-Dichloroethane

Concen: 68.094 ug/L

RT: 3.42 min Scan# 725

Delta R.T. -0.00 min

Lab File: VU033515.D

Acq: 31 Jul 2019 11:03

Instrument :

MSVOA\_U

ClientSampleId :

DB9A5

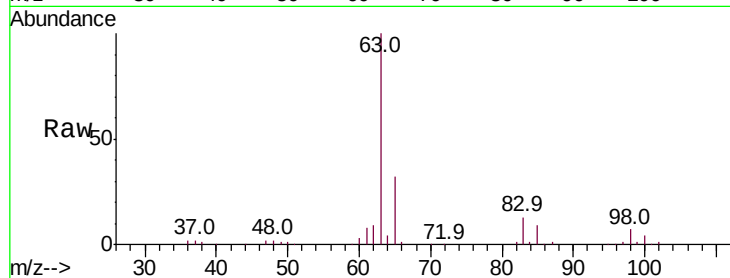
Tot Ion: 63 Resp: 274921

Ion Ratio Lower Upper

63 100

65 31.9 22.0 40.8

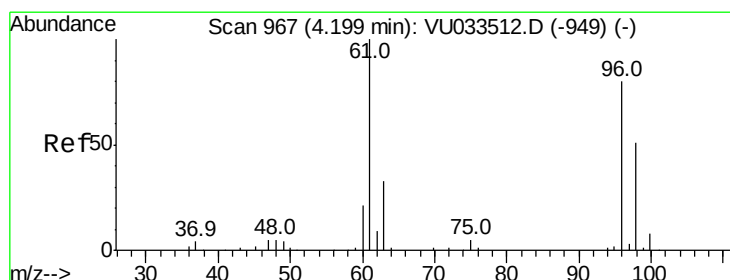
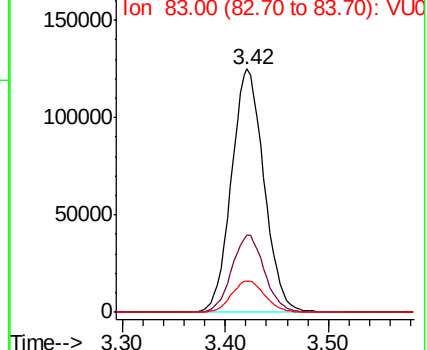
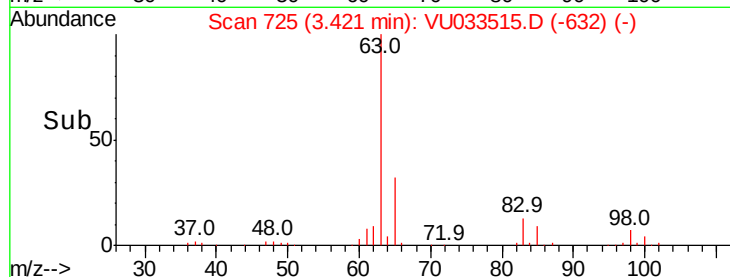
83 13.0 9.5 17.7



Abundance Ion 63.00 (62.70 to 63.70): VU033515.D (-632) (-)

Ion 65.00 (64.70 to 65.70): VU033515.D (-632) (-)

Ion 83.00 (82.70 to 83.70): VU033515.D (-632) (-)



#20

cis-1,2-Dichloroethene

Concen: 42.649 ug/L

RT: 4.20 min Scan# 967

Delta R.T. -0.00 min

Lab File: VU033515.D

Acq: 31 Jul 2019 11:03

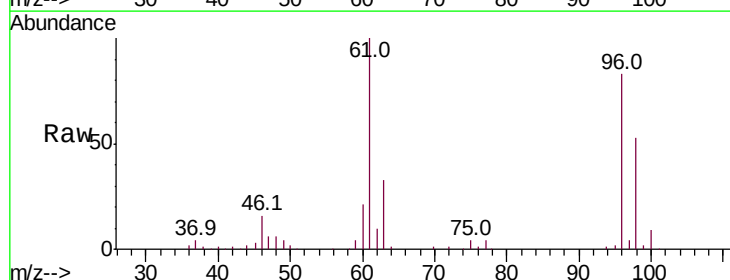
Tgt Ion: 96 Resp: 102966

Ion Ratio Lower Upper

96 100

61 119.8 91.3 169.6

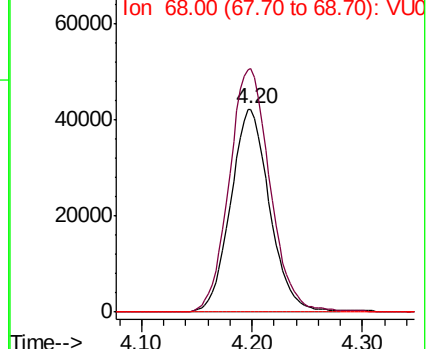
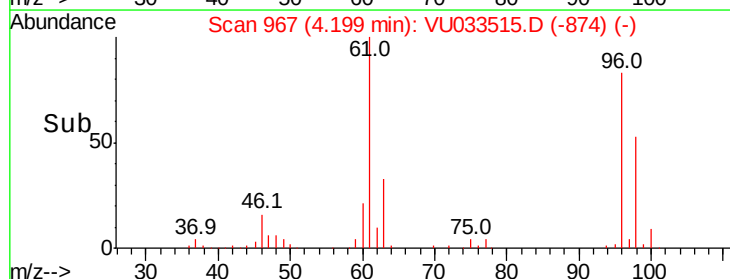
68 0.0 0.0 0.0

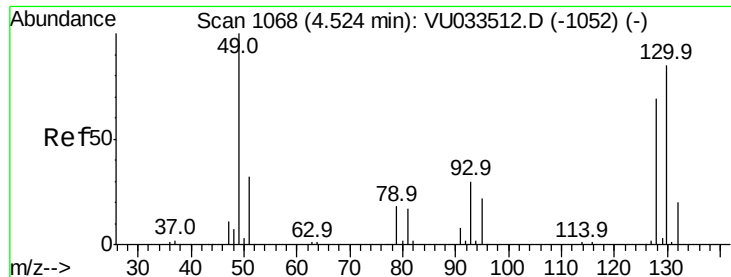


Abundance Ion 96.00 (95.70 to 96.70): VU033515.D (-874) (-)

Ion 61.00 (60.70 to 61.70): VU033515.D (-874) (-)

Ion 68.00 (67.70 to 68.70): VU033515.D (-874) (-)

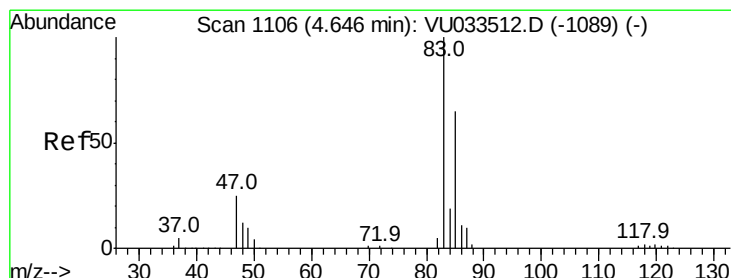
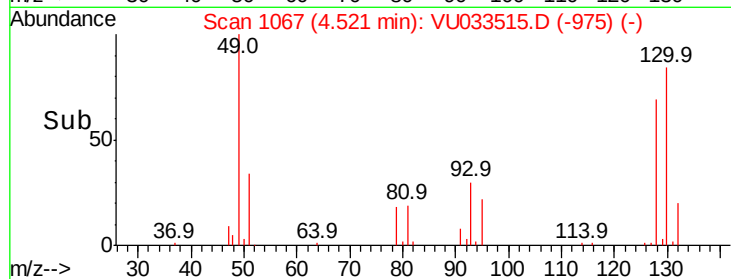
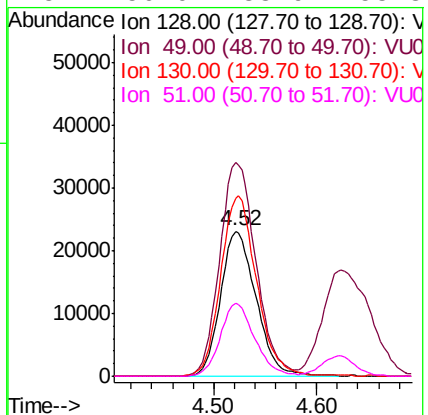
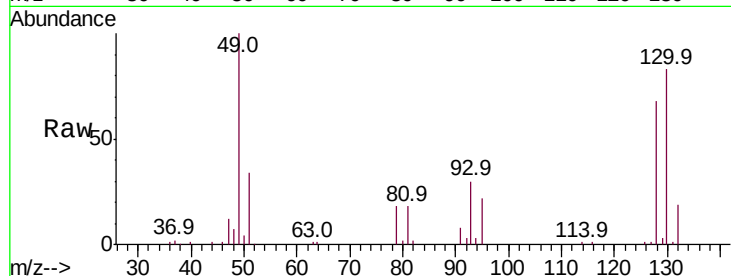




#23  
 Bromochloromethane  
 Concen: 44.021 ug/L  
 RT: 4.52 min Scan# 1067  
 Delta R.T. -0.00 min  
 Lab File: VU033515.D  
 Acq: 31 Jul 2019 11:03

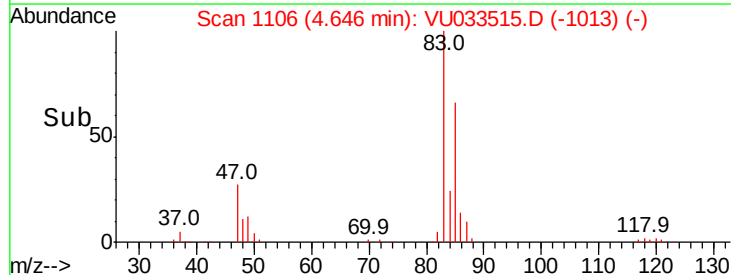
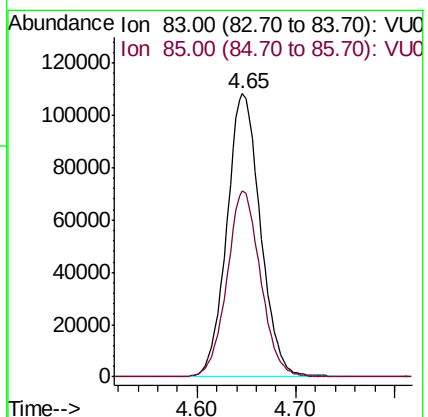
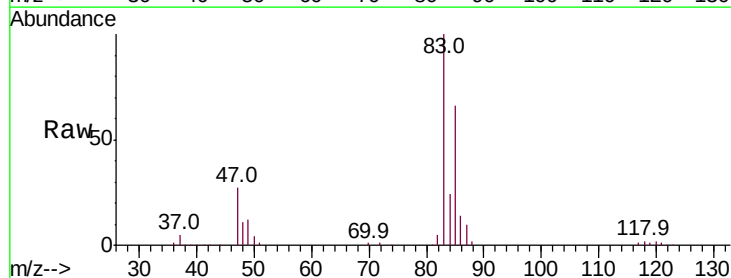
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 DB9A5

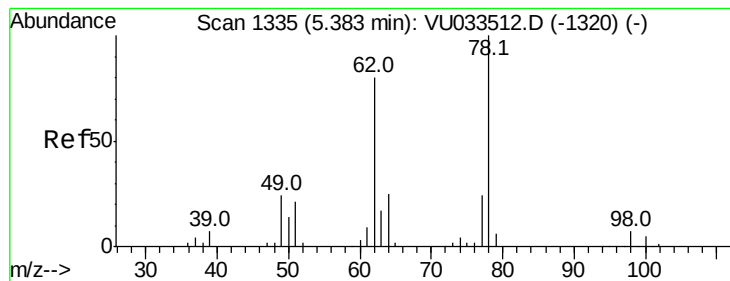
Tot Ion:128 Resp: 55452  
 Ion Ratio Lower Upper  
 128 100  
 49 147.0 108.4 201.2  
 130 122.4 89.7 166.5  
 51 50.0 38.9 58.3



#25  
 Chloroform  
 Concen: 60.536 ug/L  
 RT: 4.65 min Scan# 1106  
 Delta R.T. -0.00 min  
 Lab File: VU033515.D  
 Acq: 31 Jul 2019 11:03

Tgt Ion: 83 Resp: 257199  
 Ion Ratio Lower Upper  
 83 100  
 85 65.9 45.6 84.8





#27

1,2-Dichloroethane

Concen: 73.538 ug/L

RT: 5.38 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VU033515.D

Acq: 31 Jul 2019 11:03

Instrument :

MSVOA\_U

ClientSampleId :

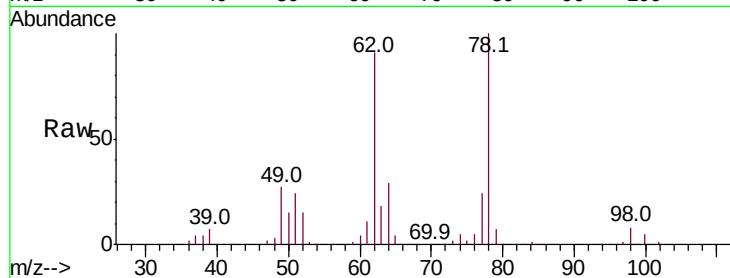
DB9A5

Tot Ion: 62 Resp: 240585

Ion Ratio Lower Upper

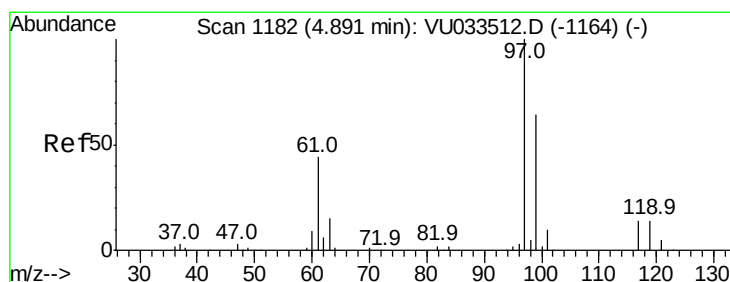
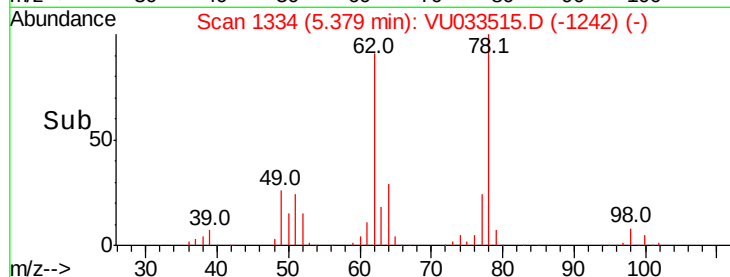
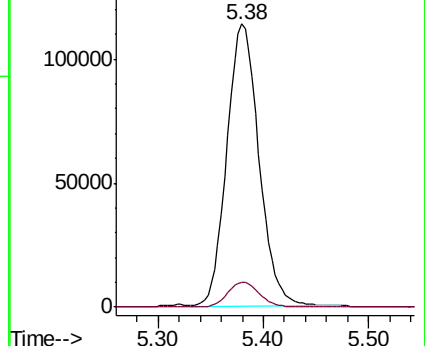
62 100

98 8.8 7.2 10.8



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 98.00 (97.70 to 98.70): VU0



#30

1,1,1-Trichloroethane

Concen: 22.108 ug/L

RT: 4.89 min Scan# 1182

Delta R.T. -0.00 min

Lab File: VU033515.D

Acq: 31 Jul 2019 11:03

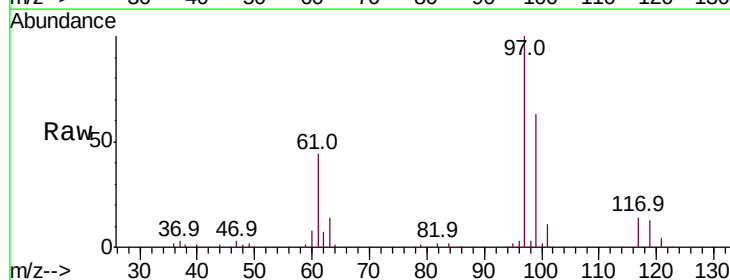
Tgt Ion: 97 Resp: 78314

Ion Ratio Lower Upper

97 100

99 64.0 51.1 76.7

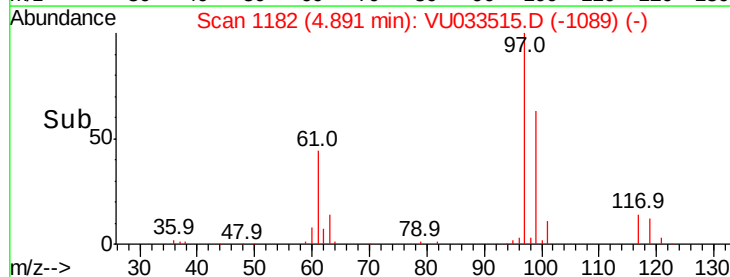
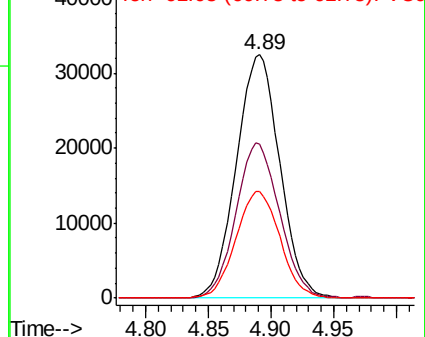
61 44.4 35.5 53.3

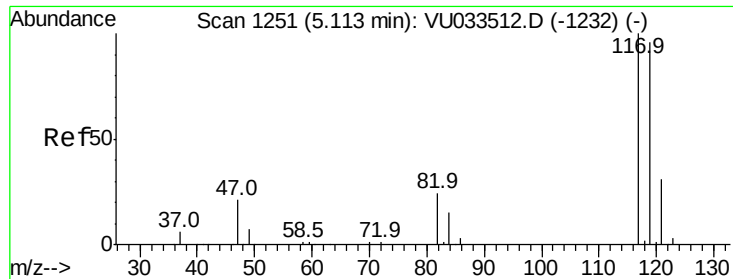


Abundance Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

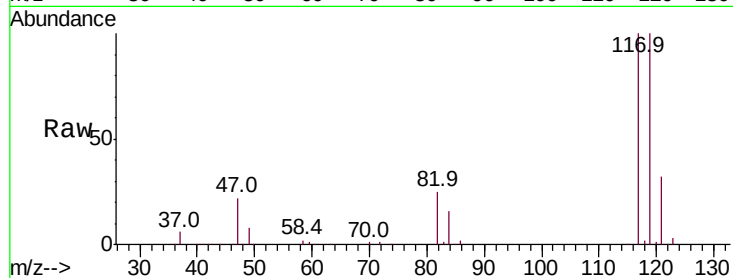




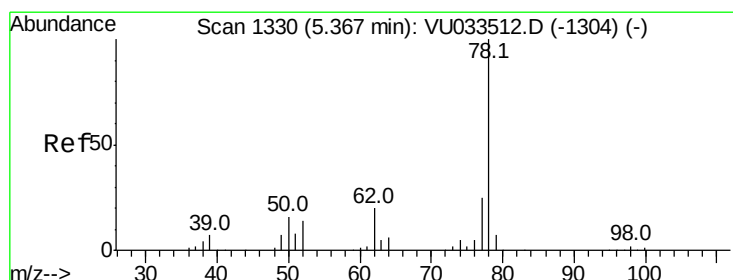
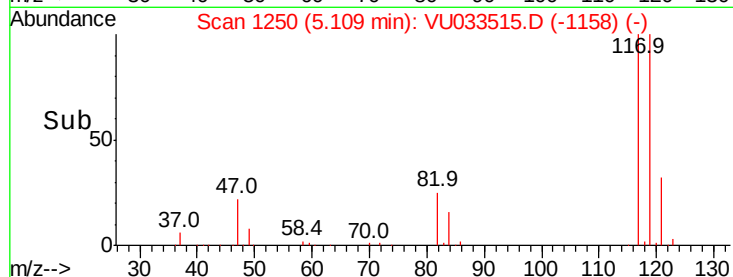
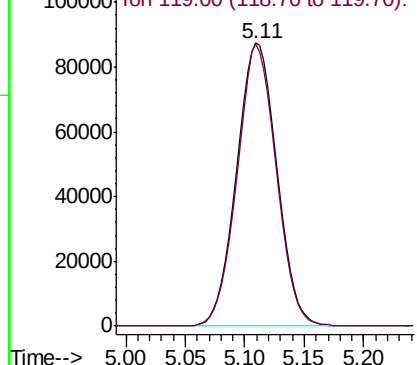
#31  
Carbon tetrachloride  
Concen: 66.345 ug/L  
RT: 5.11 min Scan# 1250  
Delta R.T. -0.00 min  
Lab File: VU033515.D  
Acq: 31 Jul 2019 11:03

Instrument :  
MSVOA\_U  
ClientSampleId :  
DB9A5

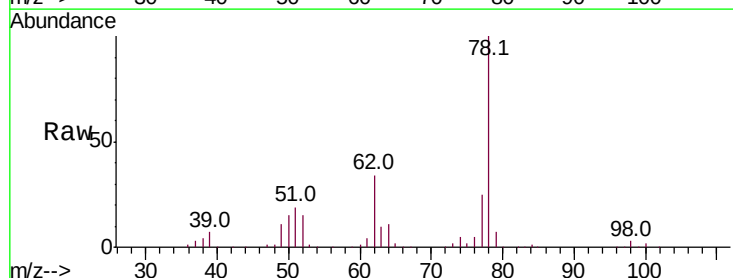
Tot Ion:117 Resp: 204657  
Ion Ratio Lower Upper  
117 100  
119 96.6 77.0 115.4



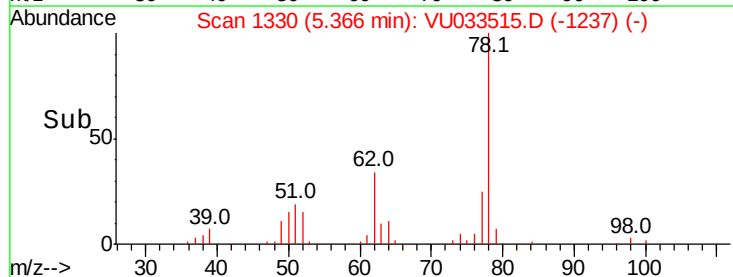
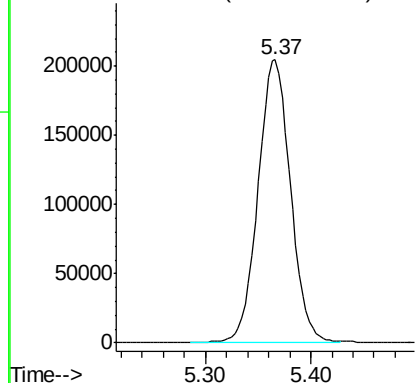
Abundance Ion 117.00 (116.70 to 117.70): V  
Ion 119.00 (118.70 to 119.70): V

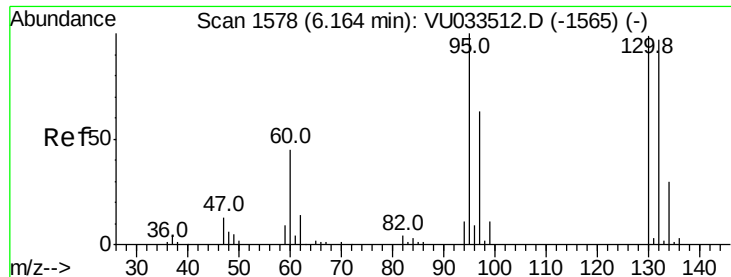


#33  
Benzene  
Concen: 49.514 ug/L  
RT: 5.37 min Scan# 1330  
Delta R.T. -0.00 min  
Lab File: VU033515.D  
Acq: 31 Jul 2019 11:03  
Tgt Ion: 78 Resp: 439743



Abundance Ion 78.00 (77.70 to 78.70): VU0

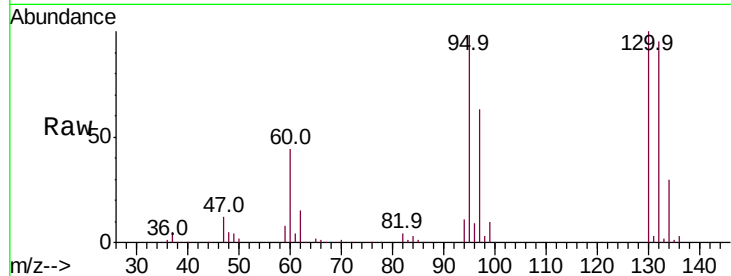




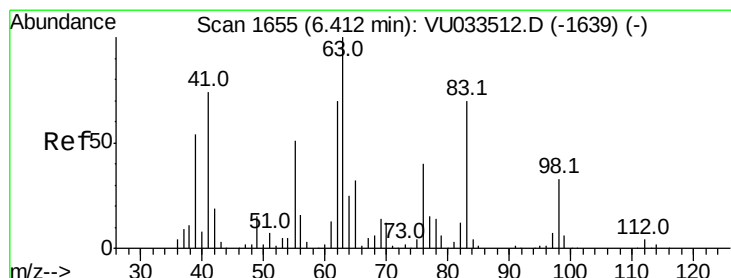
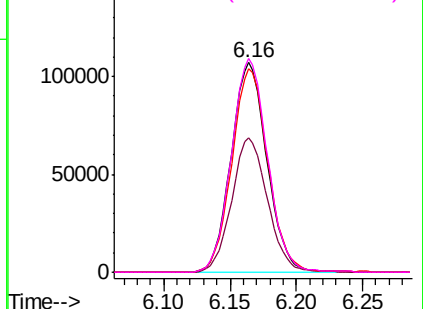
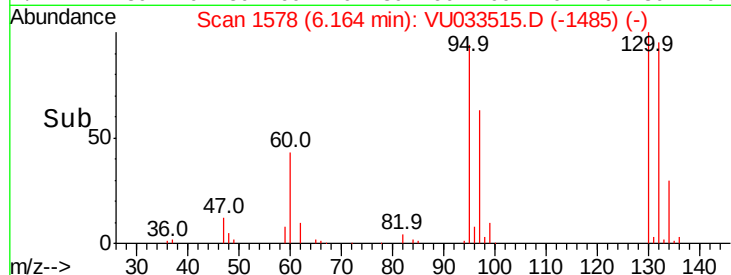
#34  
 Trichloroethene  
 Concen: 86.292 ug/L  
 RT: 6.16 min Scan# 1578  
 Delta R.T. -0.00 min  
 Lab File: VU033515.D  
 Acq: 31 Jul 2019 11:03

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 DB9A5

Tot Ion: 95 Resp: 202158  
 Ion Ratio Lower Upper  
 95 100  
 97 64.3 44.7 83.1  
 132 97.2 66.8 124.0  
 130 102.0 71.6 133.0

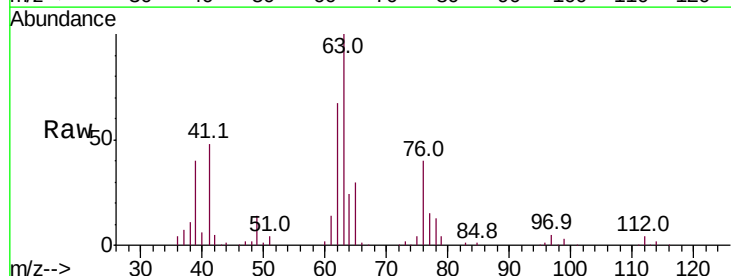


Abundance Ion 95.00 (94.70 to 95.70): VU0  
 Ion 97.00 (96.70 to 97.70): VU0  
 Ion 132.00 (131.70 to 132.70): V  
 Ion 130.00 (129.70 to 130.70): V

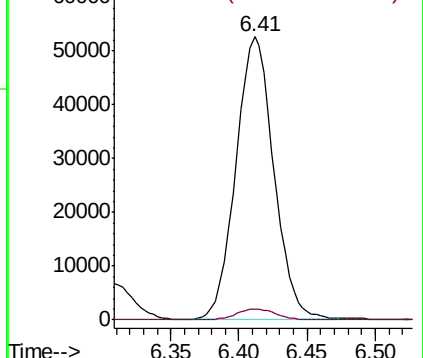
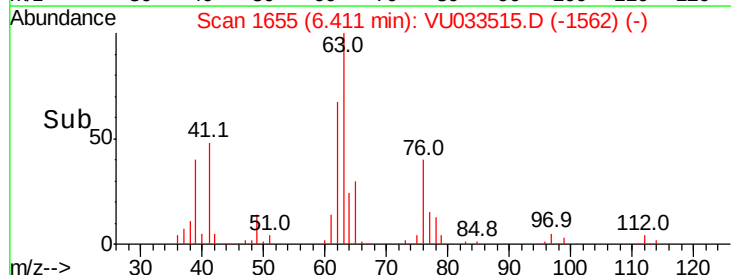


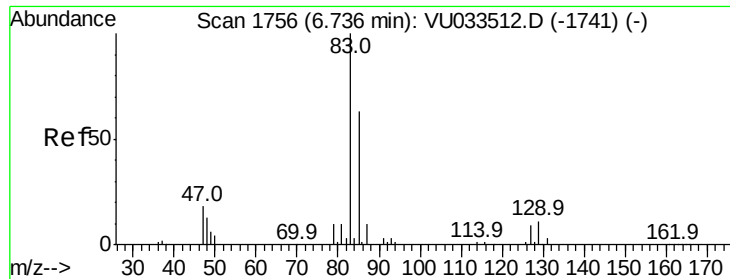
#37  
 1,2-Dichloropropane  
 Concen: 42.874 ug/L  
 RT: 6.41 min Scan# 1655  
 Delta R.T. -0.00 min  
 Lab File: VU033515.D  
 Acq: 31 Jul 2019 11:03

Tgt Ion: 63 Resp: 101921  
 Ion Ratio Lower Upper  
 63 100  
 112 4.0 3.0 4.6



Abundance Ion 63.00 (62.70 to 63.70): VU0  
 Ion 112.00 (111.70 to 112.70): V

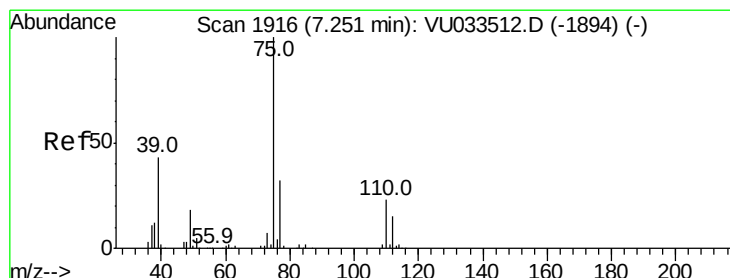
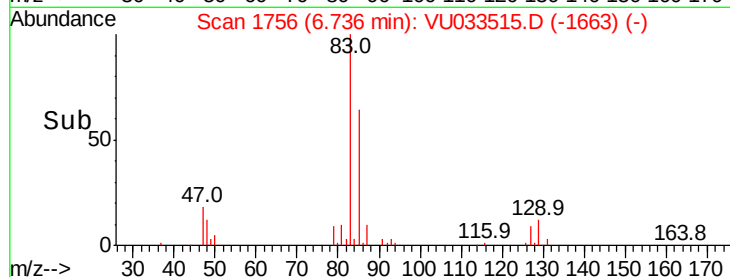
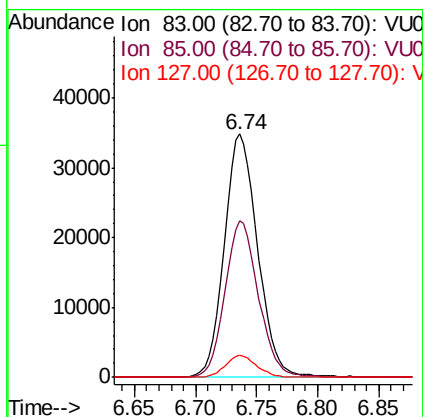
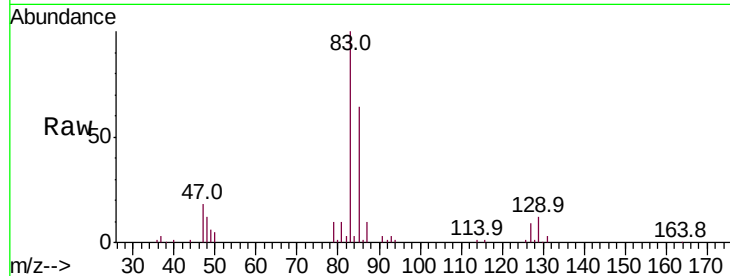




#38  
 Bromodichloromethane  
 Concen: 21.664 ug/L  
 RT: 6.74 min Scan# 1756  
 Delta R.T. -0.00 min  
 Lab File: VU033515.D  
 Acq: 31 Jul 2019 11:03

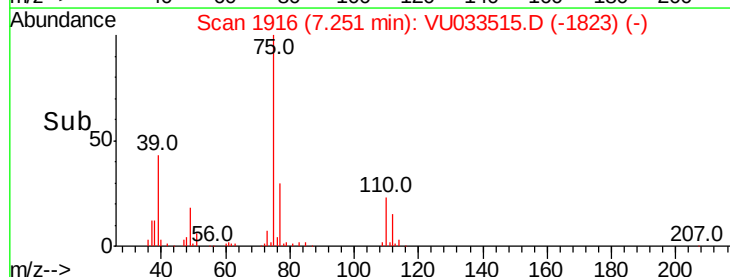
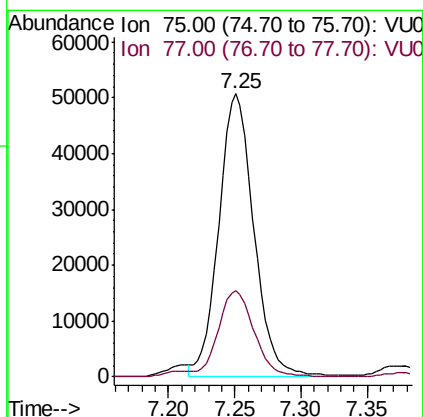
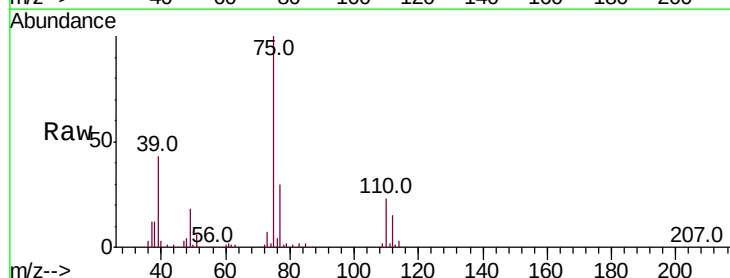
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 DB9A5

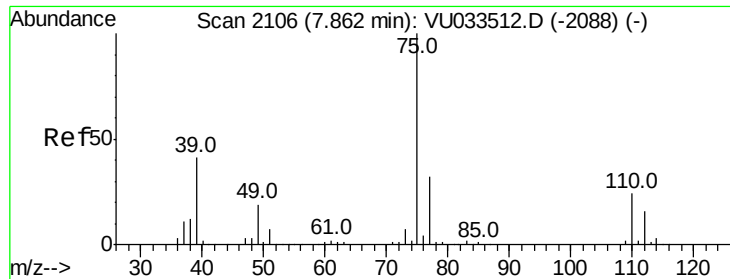
Tot Ion: 83 Resp: 66578  
 Ion Ratio Lower Upper  
 83 100  
 85 64.1 45.1 83.9  
 127 9.2 7.2 10.8



#39  
 cis-1,3-Dichloropropene  
 Concen: 25.067 ug/L  
 RT: 7.25 min Scan# 1916  
 Delta R.T. -0.00 min  
 Lab File: VU033515.D  
 Acq: 31 Jul 2019 11:03

Tgt Ion: 75 Resp: 93008  
 Ion Ratio Lower Upper  
 75 100  
 77 30.3 22.3 41.5





#44

trans-1,3-Dichloropropene

Concen: 51.636 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. -0.00 min

Lab File: VU033515.D

Acq: 31 Jul 2019 11:03

Instrument :

MSVOA\_U

ClientSampleId :

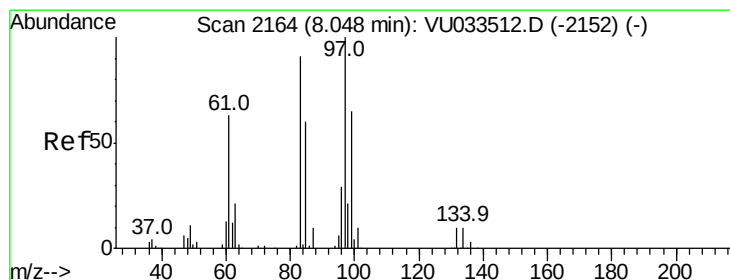
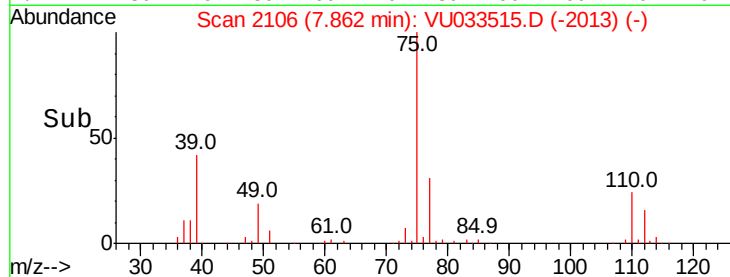
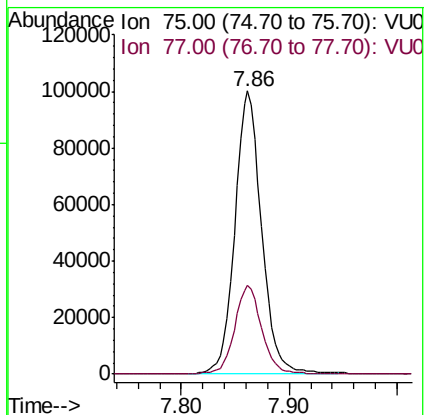
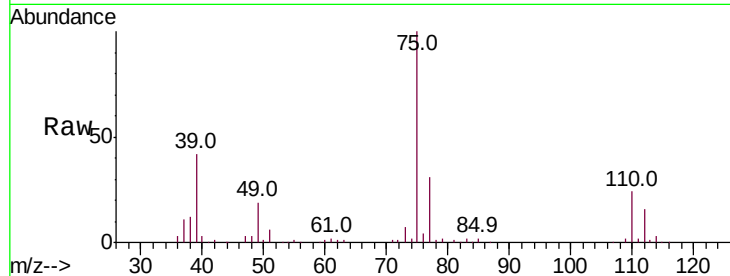
DB9A5

Tot Ion: 75 Resp: 173144

Ion Ratio Lower Upper

75 100

77 31.2 22.7 42.1



#45

1,1,2-Trichloroethane

Concen: 27.473 ug/L

RT: 8.05 min Scan# 2164

Delta R.T. -0.00 min

Lab File: VU033515.D

Acq: 31 Jul 2019 11:03

Tgt Ion: 97 Resp: 62001

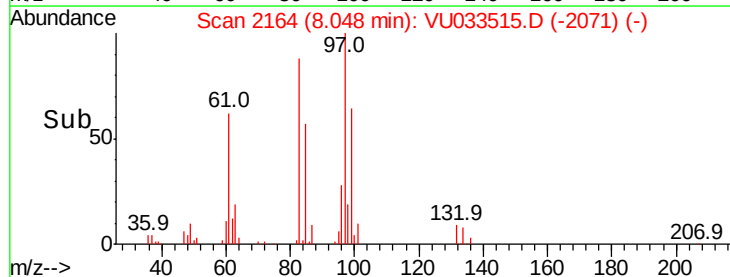
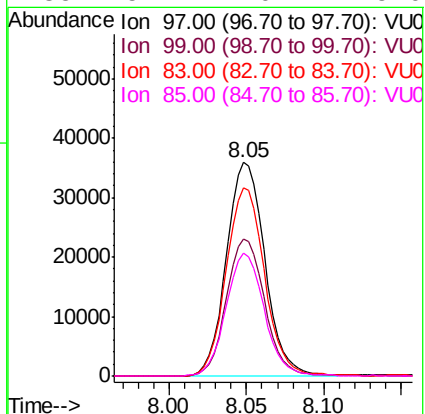
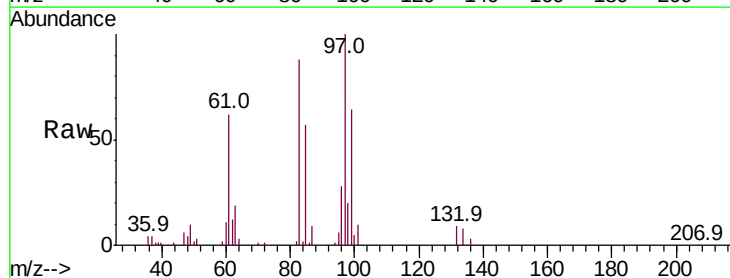
Ion Ratio Lower Upper

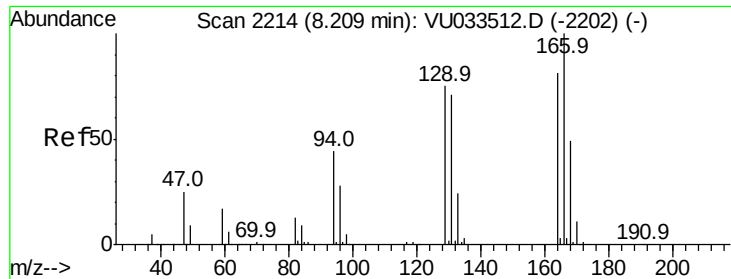
97 100

99 64.3 44.4 82.4

83 87.9 61.5 114.1

85 57.4 40.4 75.0

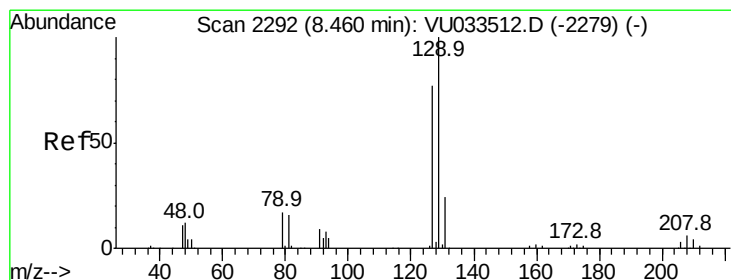
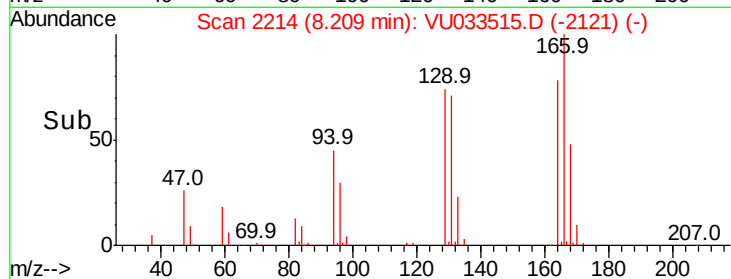
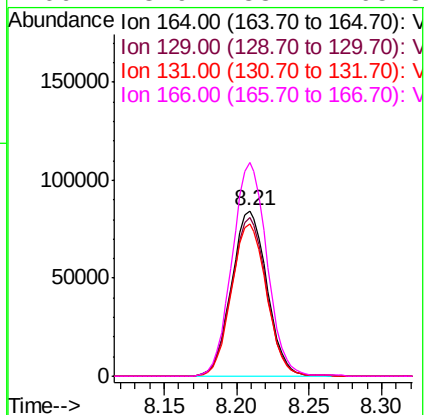
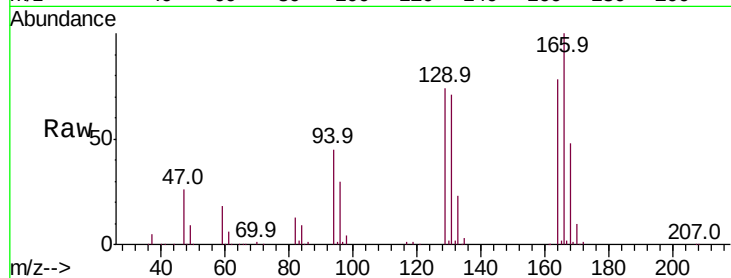




#46  
**Tetrachloroethene**  
 Concen: 74.818 ug/L  
 RT: 8.21 min Scan# 2214  
 Delta R.T. -0.00 min  
 Lab File: VU033515.D  
 Acq: 31 Jul 2019 11:03

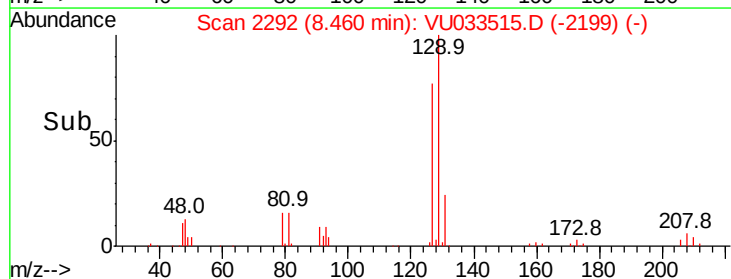
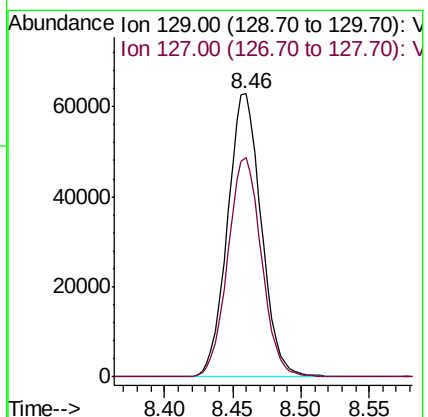
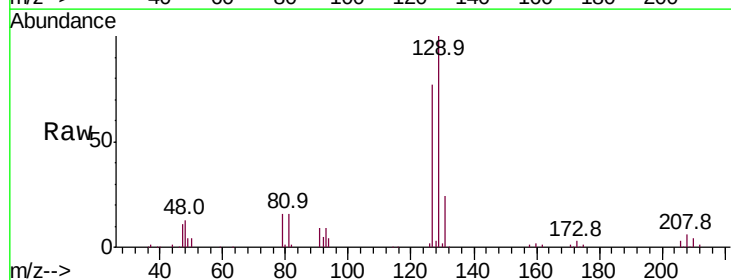
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 DB9A5

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 164   | Resp: | 143097 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 129      | 95.8  | 65.5  | 121.7  |
| 131      | 92.0  | 63.3  | 117.7  |
| 166      | 128.9 | 88.2  | 163.8  |

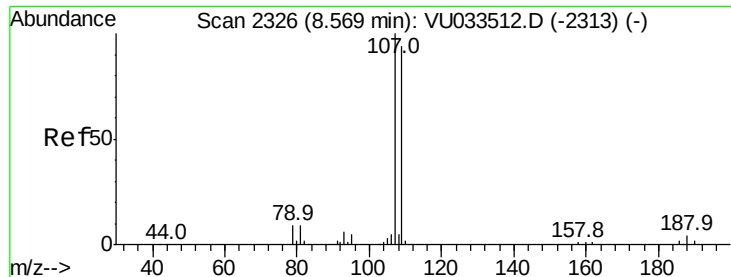


#49  
**Dibromochloromethane**  
 Concen: 42.150 ug/L  
 RT: 8.46 min Scan# 2292  
 Delta R.T. -0.00 min  
 Lab File: VU033515.D  
 Acq: 31 Jul 2019 11:03

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 129   | Resp: | 108227 |
| Ion      | Ratio | Lower | Upper  |
| 129      | 100   |       |        |
| 127      | 77.5  | 53.8  | 99.8   |



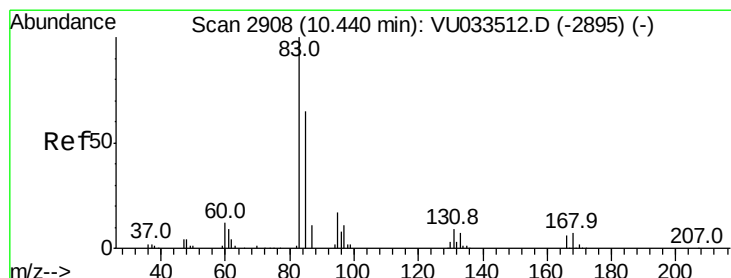
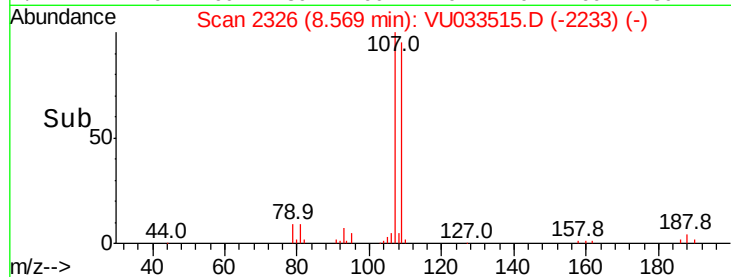
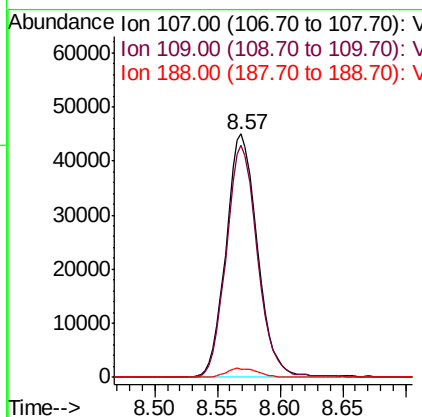
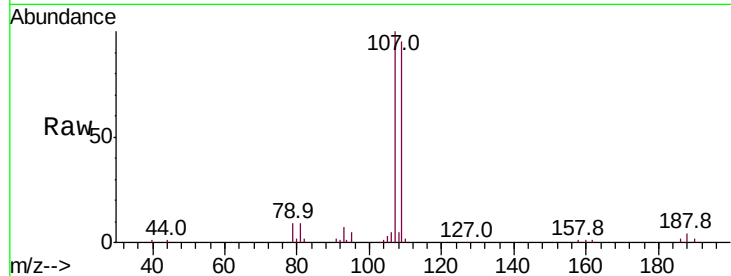




#50  
 1,2-Dibromoethane  
 Concen: 31.357 ug/L  
 RT: 8.57 min Scan# 2326  
 Delta R.T. -0.00 min  
 Lab File: VU033515.D  
 Acq: 31 Jul 2019 11:03

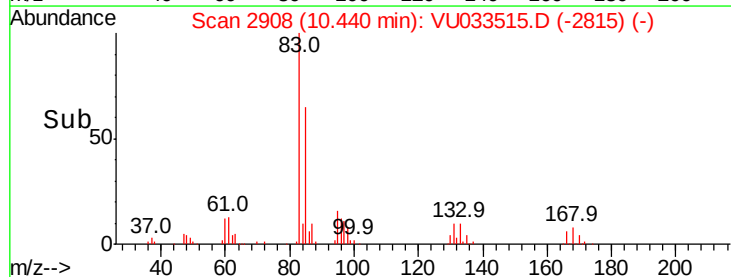
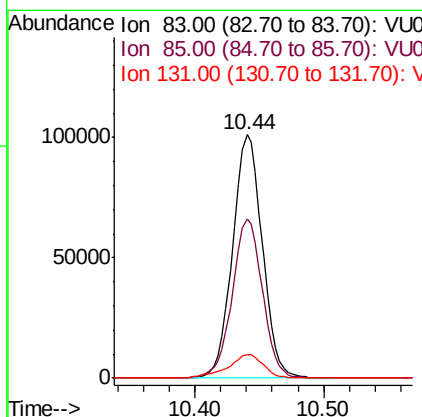
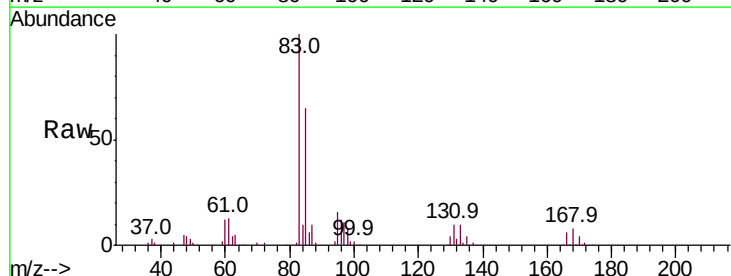
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 DB9A5

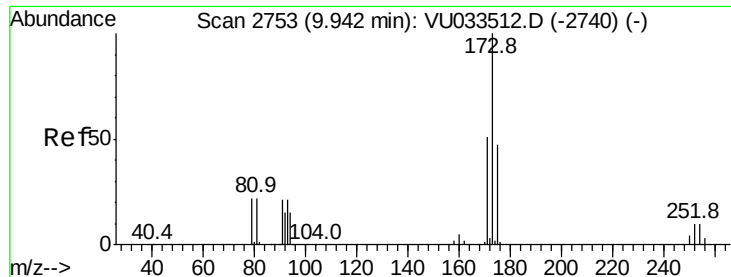
Tot Ion:107 Resp: 78387  
 Ion Ratio Lower Upper  
 107 100  
 109 95.3 66.8 124.0  
 188 3.5 3.0 4.4



#58  
 1,1,2,2-Tetrachloroethane  
 Concen: 39.774 ug/L  
 RT: 10.44 min Scan# 2908  
 Delta R.T. -0.00 min  
 Lab File: VU033515.D  
 Acq: 31 Jul 2019 11:03

Tgt Ion: 83 Resp: 161898  
 Ion Ratio Lower Upper  
 83 100  
 85 65.3 45.4 84.4  
 131 9.5 7.9 11.9





#61

Bromoform

Concen: 55.473 ug/L

RT: 9.94 min Scan# 2753

Delta R.T. -0.00 min

Lab File: VU033515.D

Acq: 31 Jul 2019 11:03

Instrument :

MSVOA\_U

ClientSampleId :

DB9A5

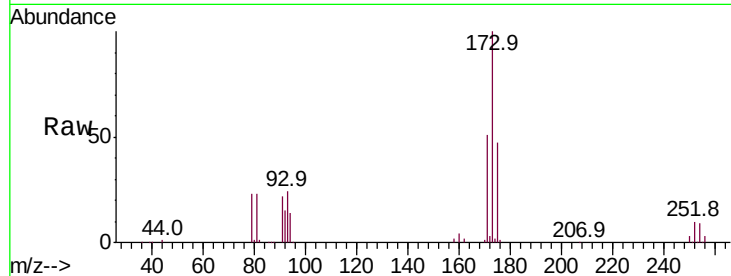
Tot Ion:173 Resp: 104726

Ion Ratio Lower Upper

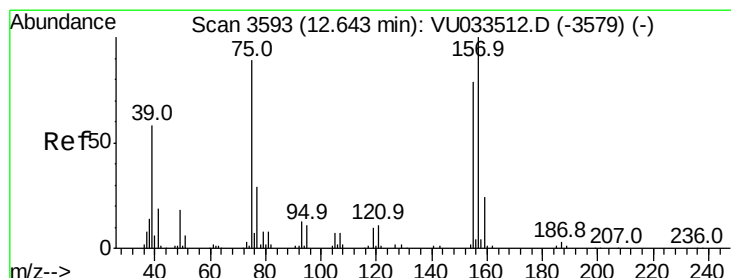
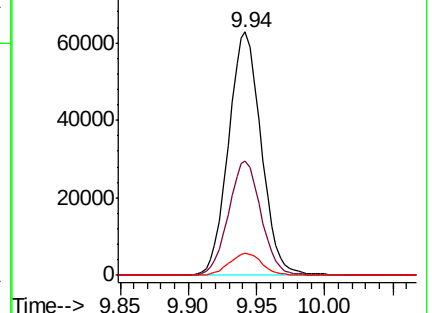
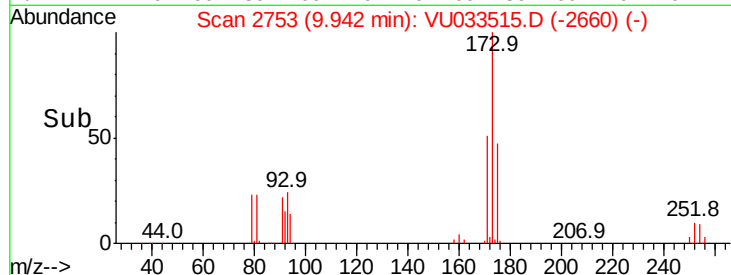
173 100

175 46.7 38.7 58.1

254 9.1 7.5 11.3



Abundance Ion 173.00 (172.70 to 173.70): V  
Ion 175.00 (174.70 to 175.70): V  
Ion 254.00 (253.70 to 254.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 42.579 ug/L

RT: 12.64 min Scan# 3593

Delta R.T. -0.00 min

Lab File: VU033515.D

Acq: 31 Jul 2019 11:03

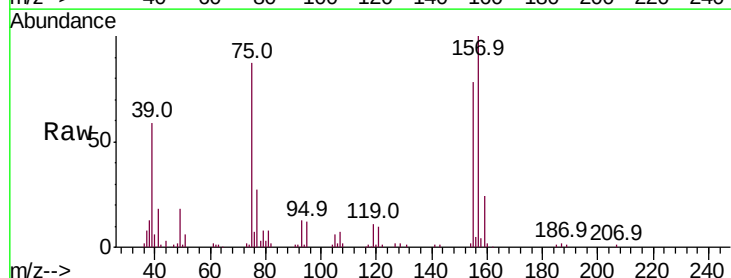
Tgt Ion: 75 Resp: 38178

Ion Ratio Lower Upper

75 100

155 89.1 69.4 104.0

157 115.0 91.8 137.8



Abundance Ion 75.00 (74.70 to 75.70): VU0  
Ion 155.00 (154.70 to 155.70): V  
Ion 157.00 (156.70 to 157.70): V

