

Data File : VU029492.D  
Acq On : 15 Feb 2019 12:25  
Operator : JC/SP  
Sample : VSTDICV050  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VICV46

Quant Time: Feb 15 23:36:37 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM021519WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Feb 15 23:28:02 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 453214   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 445296   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 244442   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 171505   | 51.64    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 103.28% |
| 7) Chloroethane-d5             | 1.68    | 69    | 148495   | 50.30    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 100.60% |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 284429   | 43.82    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 87.64%  |
| 21) 2-Butanone-d5              | 4.17    | 46    | 212487   | 105.14   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 105.14% |
| 24) Chloroform-d               | 4.64    | 84    | 283982   | 52.72    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 105.44% |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 173469   | 50.87    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 101.74% |
| 32) Benzene-d6                 | 5.34    | 84    | 576830   | 51.48    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 102.96% |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 172498   | 51.17    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 102.34% |
| 41) Toluene-d8                 | 7.56    | 98    | 585958   | 51.24    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 102.48% |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 94276    | 52.72    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 105.44% |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 193187   | 102.91   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 102.91% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 283345   | 49.74    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 99.48%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 267524   | 50.78    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 101.56% |

#### Target Compounds

|                                |      |     |        |             | Qvalue |
|--------------------------------|------|-----|--------|-------------|--------|
| 2) Dichlorodifluoromethane     | 1.21 | 85  | 158391 | 50.970 ug/L | 100    |
| 3) Chloromethane               | 1.33 | 50  | 141160 | 51.780 ug/L | 98     |
| 5) Vinyl chloride              | 1.40 | 62  | 189708 | 51.240 ug/L | 98     |
| 6) Bromomethane                | 1.62 | 94  | 104438 | 61.809 ug/L | 100    |
| 8) Chloroethane                | 1.69 | 64  | 123411 | 50.116 ug/L | 99     |
| 9) Trichlorofluoromethane      | 1.88 | 101 | 299734 | 50.787 ug/L | 98     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.28 | 101 | 142558 | 45.157 ug/L | 96     |
| 12) 1,1-Dichloroethene         | 2.28 | 96  | 128887 | 42.944 ug/L | 97     |
| 13) Acetone                    | 2.32 | 43  | 197968 | 91.669 ug/L | 99     |
| 14) Carbon disulfide           | 2.47 | 76  | 400072 | 50.898 ug/L | 99     |
| 15) Methyl Acetate             | 2.61 | 43  | 142194 | 50.728 ug/L | 99     |
| 16) Methylene chloride         | 2.70 | 84  | 146202 | 50.342 ug/L | 99     |
| 17) trans-1,2-Dichloroethene   | 2.98 | 96  | 140256 | 50.632 ug/L | 98     |
| 18) Methyl tert-butyl Ether    | 3.00 | 73  | 428168 | 49.925 ug/L | 99     |
| 19) 1,1-Dichloroethane         | 3.44 | 63  | 240460 | 50.201 ug/L | 100    |
| 20) cis-1,2-Dichloroethene     | 4.22 | 96  | 165411 | 51.390 ug/L | 96     |
| 22) 2-Butanone                 | 4.26 | 43  | 243649 | 98.859 ug/L | 100    |

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Response via : Initial Calibration

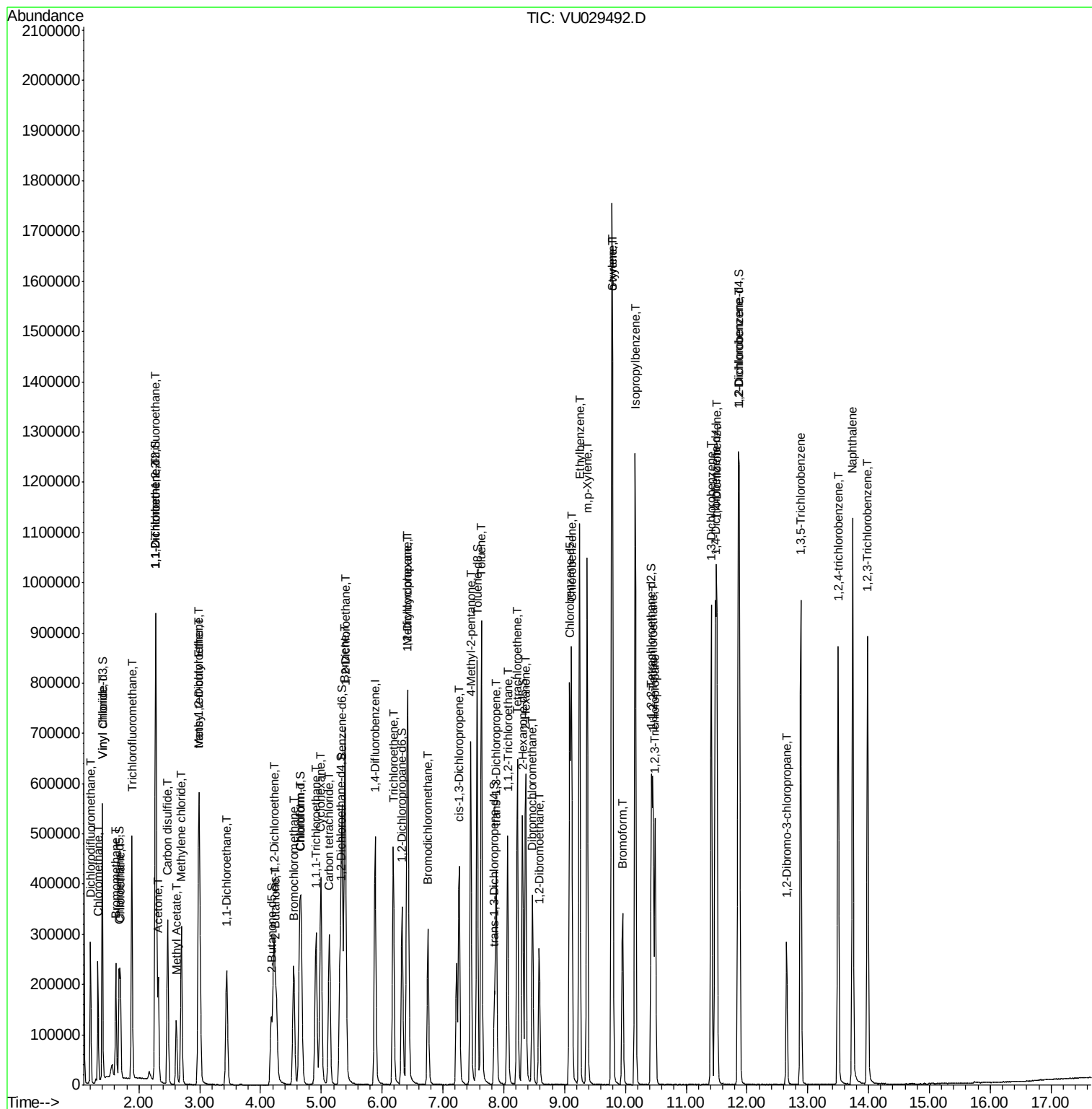
| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 23) Bromochloromethane         | 4.54  | 128  | 89479    | 50.711  | ug/L  | 97       |
| 25) Chloroform                 | 4.67  | 83   | 267277   | 50.012  | ug/L  | 99       |
| 27) 1,2-Dichloroethane         | 5.40  | 62   | 207717   | 50.553  | ug/L  | 100      |
| 29) Cyclohexane                | 4.99  | 56   | 229099   | 51.989  | ug/L  | 97       |
| 30) 1,1,1-Trichloroethane      | 4.91  | 97   | 238609   | 50.537  | ug/L  | 98       |
| 31) Carbon tetrachloride       | 5.13  | 117  | 219007   | 51.249  | ug/L  | 98       |
| 33) Benzene                    | 5.39  | 78   | 580637   | 50.858  | ug/L  | 100      |
| 34) Trichloroethene            | 6.18  | 95   | 160903   | 52.317  | ug/L  | 98       |
| 35) Methylcyclohexane          | 6.41  | 83   | 265607   | 52.002  | ug/L  | 99       |
| 37) 1,2-Dichloropropane        | 6.43  | 63   | 155770   | 51.976  | ug/L  | 99       |
| 38) Bromodichloromethane       | 6.75  | 83   | 209098   | 51.753  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene    | 7.27  | 75   | 259552   | 53.679  | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone       | 7.46  | 43   | 433659   | 102.900 | ug/L  | 99       |
| 42) Toluene                    | 7.63  | 91   | 686624   | 50.856  | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene  | 7.88  | 75   | 239712   | 52.604  | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane      | 8.06  | 97   | 161575   | 50.581  | ug/L  | 99       |
| 46) Tetrachloroethene          | 8.22  | 164  | 153858   | 51.111  | ug/L  | 99       |
| 48) 2-Hexanone                 | 8.36  | 43   | 366848   | 99.645  | ug/L  | 99       |
| 49) Dibromochloromethane       | 8.47  | 129  | 196534   | 50.750  | ug/L  | 99       |
| 50) 1,2-Dibromoethane          | 8.58  | 107  | 182917   | 51.684  | ug/L  | 99       |
| 51) Chlorobenzene              | 9.12  | 112  | 475307   | 51.292  | ug/L  | 98       |
| 52) Ethylbenzene               | 9.25  | 91   | 787274   | 51.342  | ug/L  | 99       |
| 53) m,p-Xylene                 | 9.37  | 106  | 311850   | 50.664  | ug/L  | 97       |
| 54) o-xylene                   | 9.78  | 106  | 315439   | 51.018  | ug/L  | 99       |
| 55) Styrene                    | 9.79  | 104  | 531320   | 50.905  | ug/L  | 97       |
| 56) Isopropylbenzene           | 10.16 | 105  | 823679   | 50.911  | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 10.45 | 83   | 282604   | 50.030  | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane     | 10.49 | 75   | 213039   | 49.856  | ug/L  | 100      |
| 61) Bromoform                  | 9.95  | 173  | 161202   | 48.970  | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene        | 11.41 | 146  | 405977   | 52.090  | ug/L  | 97       |
| 63) 1,4-Dichlorobenzene        | 11.50 | 146  | 403723   | 51.474  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene        | 11.88 | 146  | 409263   | 50.305  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 12.65 | 75   | 67387    | 53.228  | ug/L  | 93       |
| 67) 1,3,5-Trichlorobenzene     | 12.88 | 180  | 318625   | 53.573  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene     | 13.50 | 180  | 290288   | 56.432  | ug/L  | 100      |
| 69) Naphthalene                | 13.74 | 128  | 946461   | 59.860  | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 13.98 | 180  | 303131   | 55.492  | ug/L  | 99       |

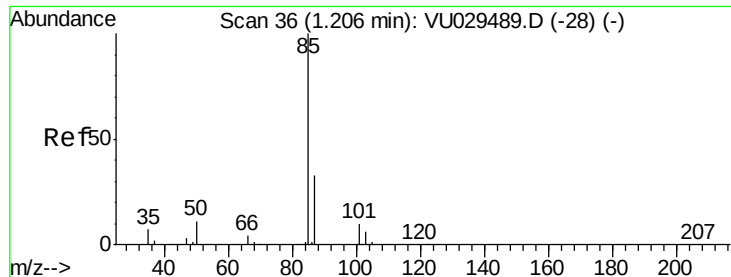
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 50.970 ug/L

RT: 1.21 min Scan# 36

Delta R.T. -0.00 min

Lab File: VU029492.D

Acq: 15 Feb 2019 12:25

Instrument :

MSVOA\_U

ClientSampleId :

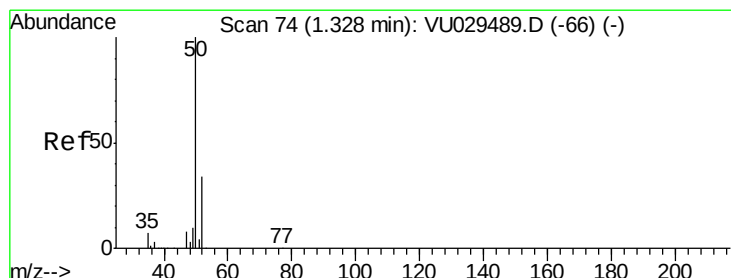
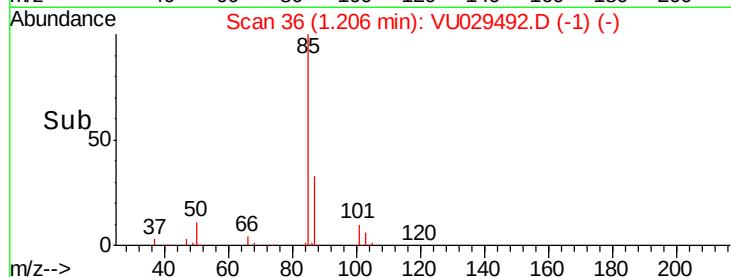
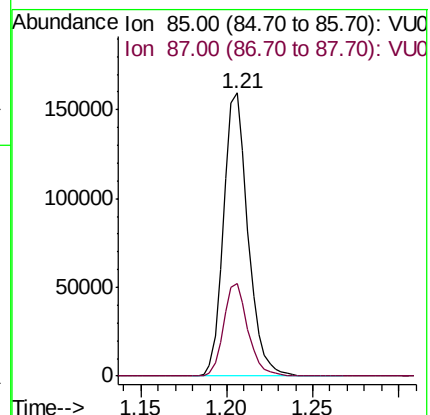
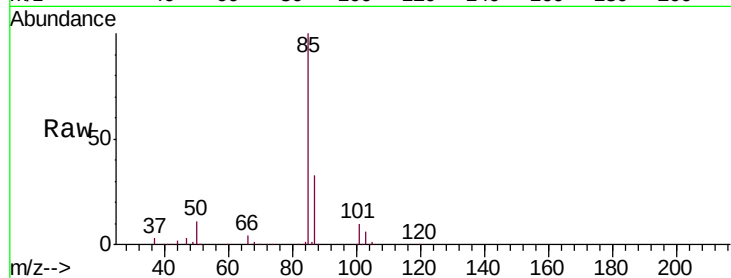
VICV46

Tgt Ion: 85 Resp: 158391

Ion Ratio Lower Upper

85 100

87 32.6 25.9 38.9



#3

Chloromethane

Concen: 51.780 ug/L

RT: 1.33 min Scan# 74

Delta R.T. -0.00 min

Lab File: VU029492.D

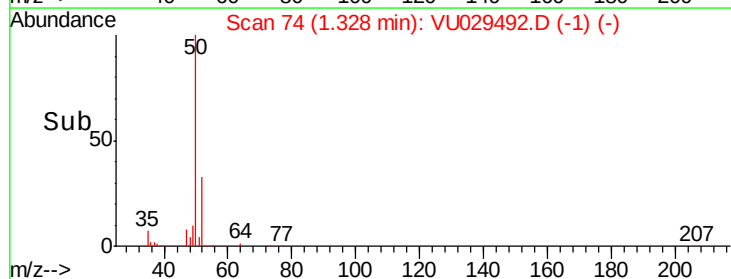
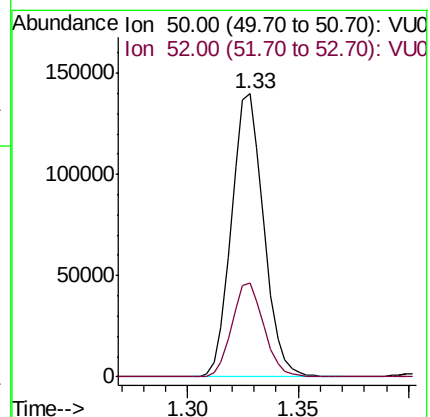
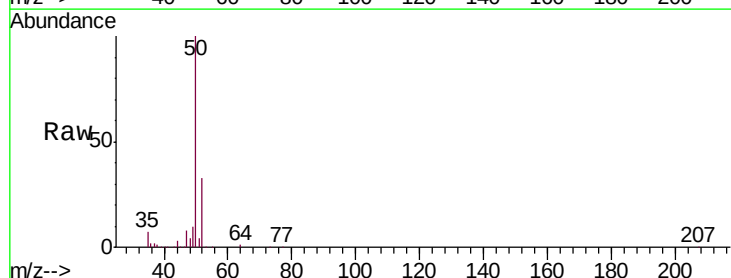
Acq: 15 Feb 2019 12:25

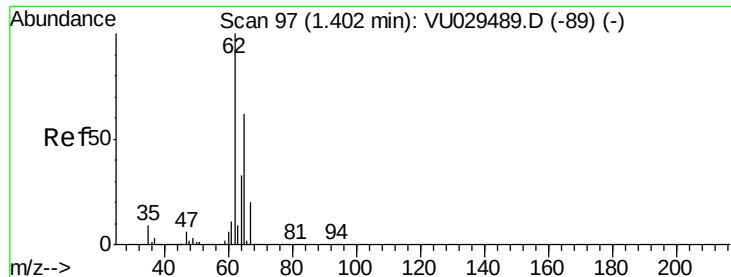
Tgt Ion: 50 Resp: 141160

Ion Ratio Lower Upper

50 100

52 33.1 23.9 44.3





#5

Vinyl chloride

Concen: 51.240 ug/L

RT: 1.40 min Scan# 97

Delta R.T. -0.00 min

Lab File: VU029492.D

Acq: 15 Feb 2019 12:25

Instrument :

MSVOA\_U

ClientSampleId :

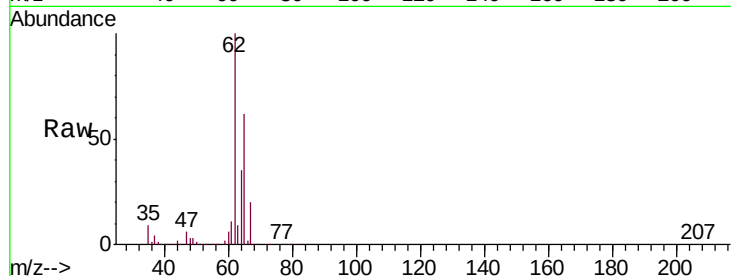
VICV46

Tgt Ion: 62 Resp: 189708

Ion Ratio Lower Upper

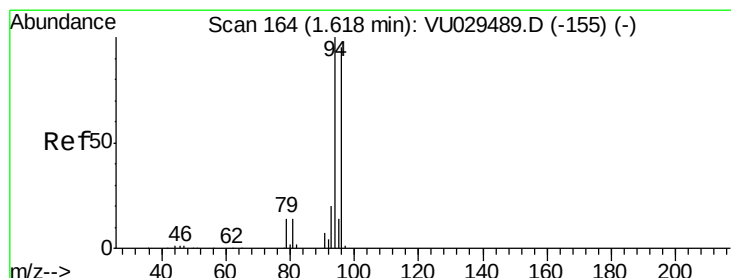
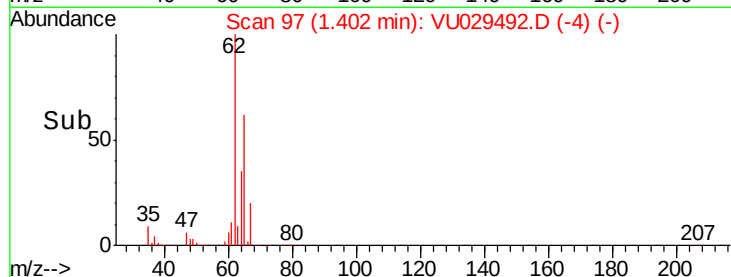
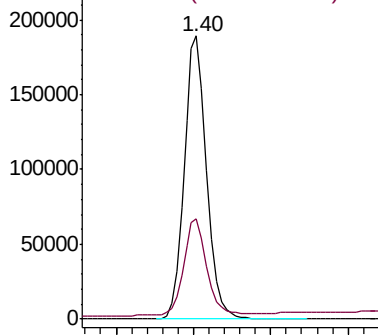
62 100

64 35.2 23.7 43.9



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 61.809 ug/L

RT: 1.62 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU029492.D

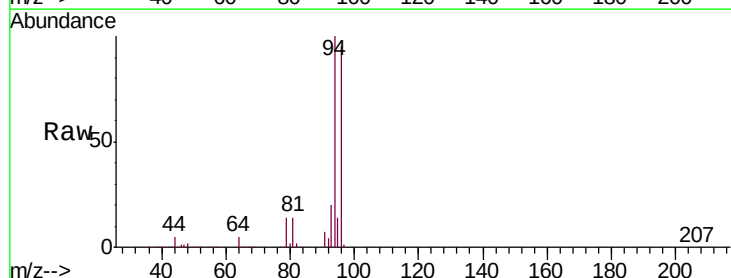
Acq: 15 Feb 2019 12:25

Tgt Ion: 94 Resp: 104438

Ion Ratio Lower Upper

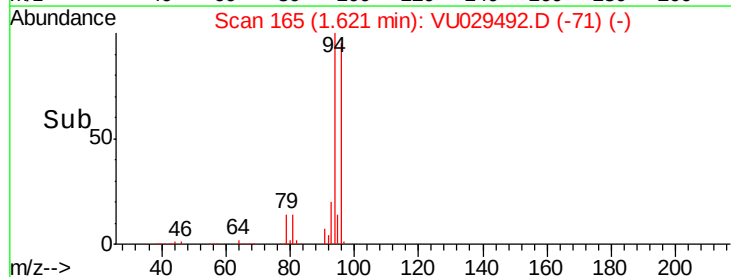
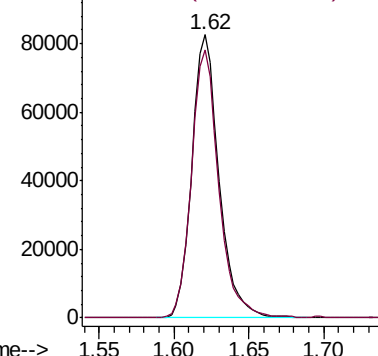
94 100

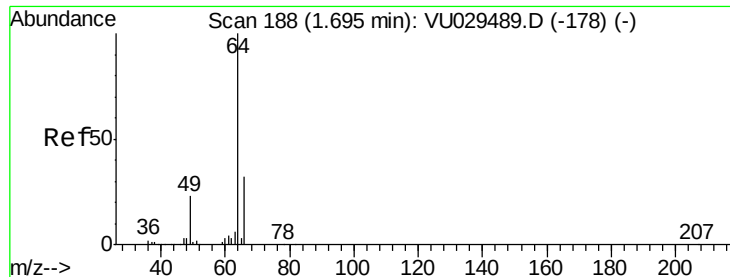
96 94.6 66.4 123.2



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

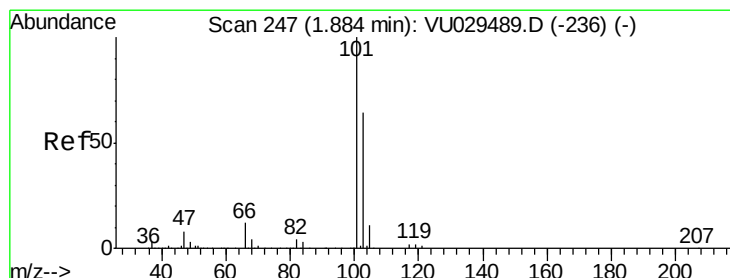
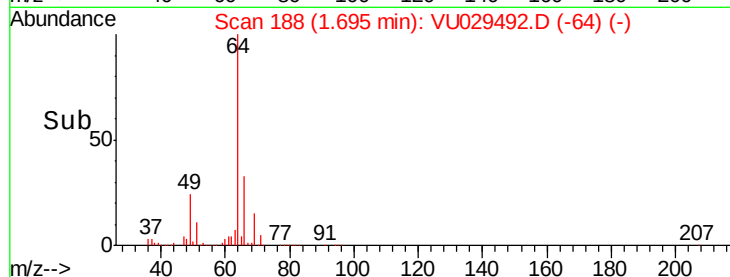
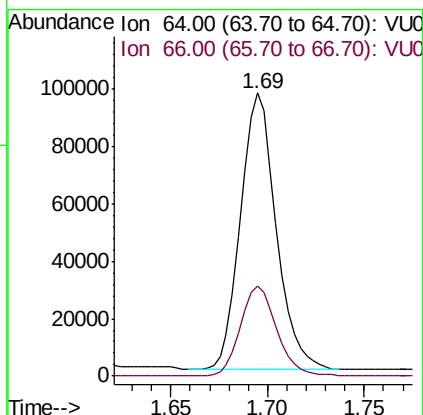
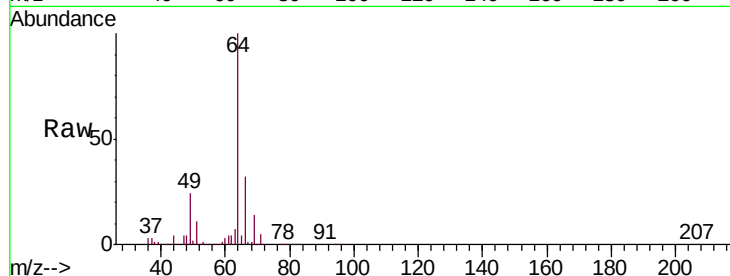




#8  
Chloroethane  
Concen: 50.116 ug/L  
RT: 1.69 min Scan# 188  
Delta R.T. -0.00 min  
Lab File: VU029492.D  
Acq: 15 Feb 2019 12:25

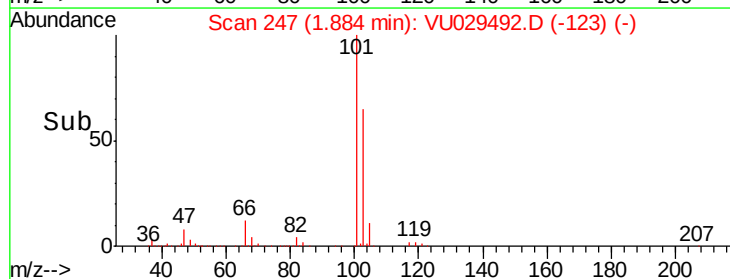
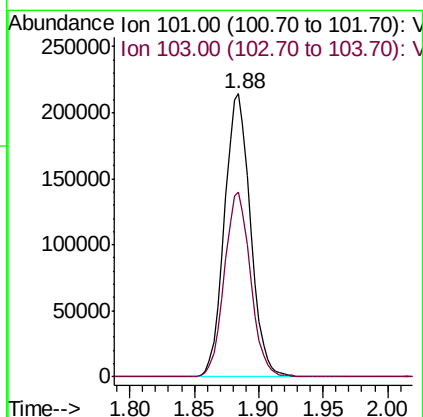
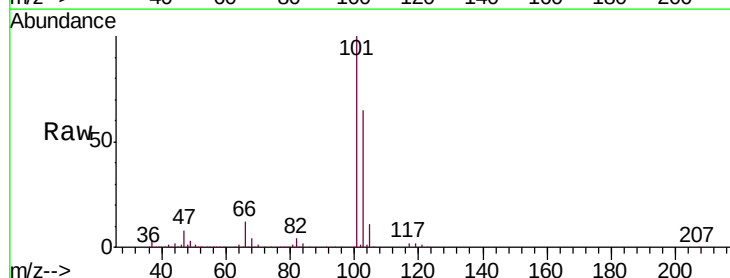
Instrument :  
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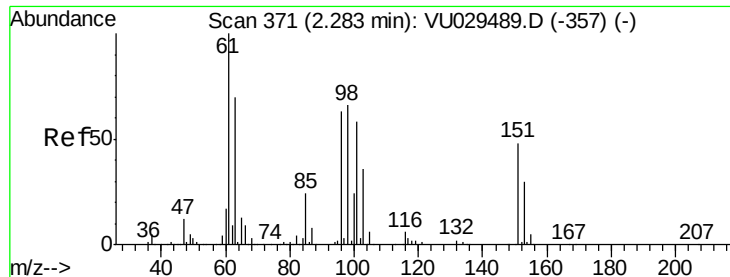
Tgt Ion: 64 Resp: 123411  
Ion Ratio Lower Upper  
64 100  
66 31.8 22.0 41.0



#9  
Trichlorofluoromethane  
Concen: 50.787 ug/L  
RT: 1.88 min Scan# 247  
Delta R.T. -0.00 min  
Lab File: VU029492.D  
Acq: 15 Feb 2019 12:25

Tgt Ion: 101 Resp: 299734  
Ion Ratio Lower Upper  
101 100  
103 65.5 51.4 77.2





#10

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

Concen: 45.157 ug/L

RT: 2.28 min Scan# 371

Delta R.T. -0.00 min

Lab File: VU029492.D

Acq: 15 Feb 2019 12:25

Instrument :

MSVOA\_U

ClientSampleId :

VICV46

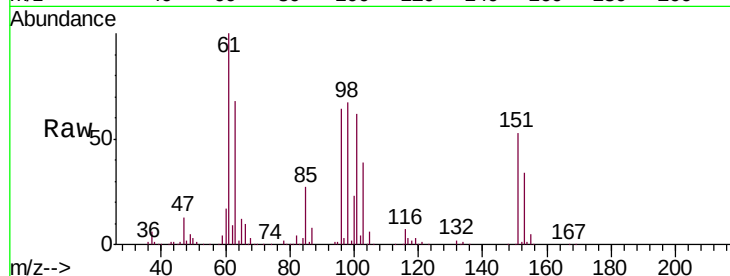
Tgt Ion: 101 Resp: 142558

Ion Ratio Lower Upper

101 100

85 42.4 33.0 49.6

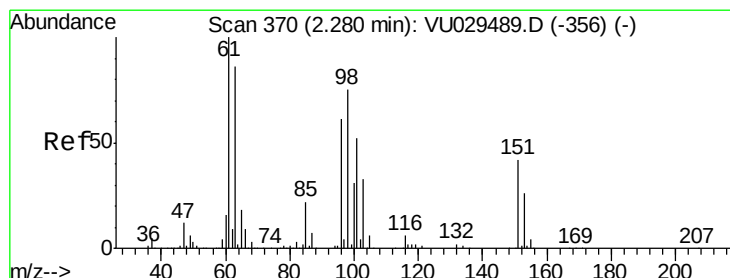
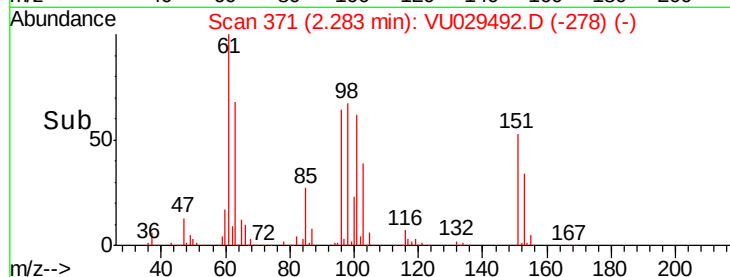
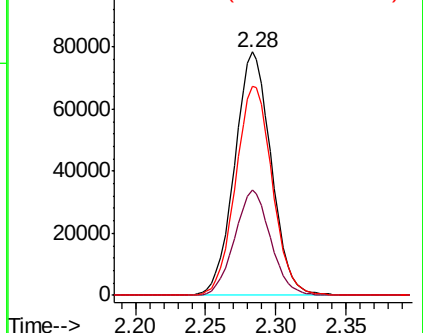
151 86.2 65.7 98.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 42.944 ug/L

RT: 2.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VU029492.D

Acq: 15 Feb 2019 12:25

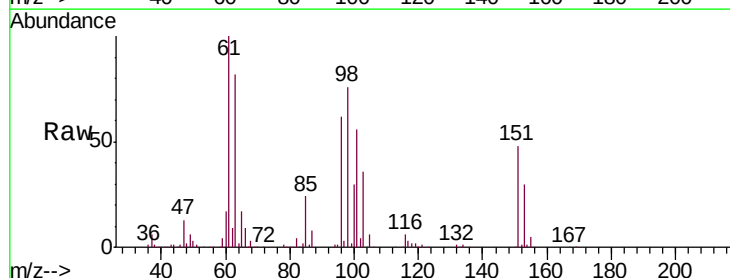
Tgt Ion: 96 Resp: 128887

Ion Ratio Lower Upper

96 100

61 161.8 114.0 211.8

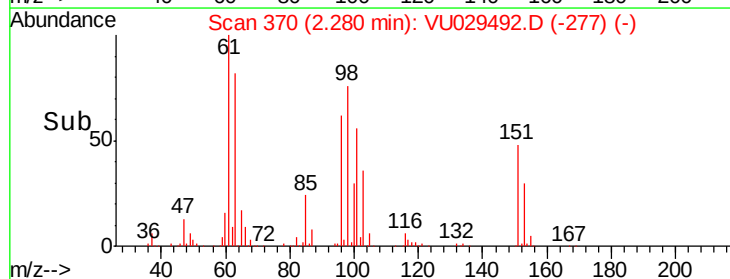
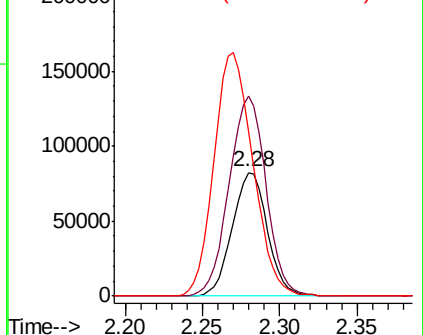
63 133.1 98.7 183.3

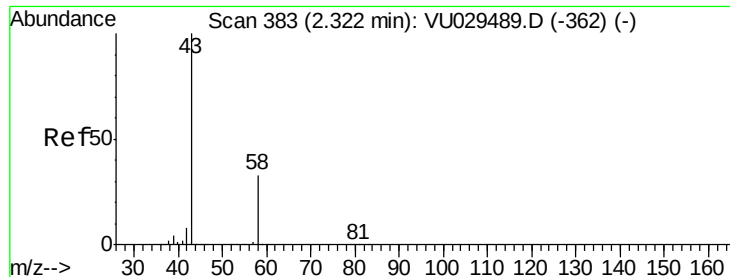


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 91.669 ug/L

RT: 2.32 min Scan# 382

Delta R.T. -0.00 min

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Instrument :

MSVOA\_U

ClientSampled :

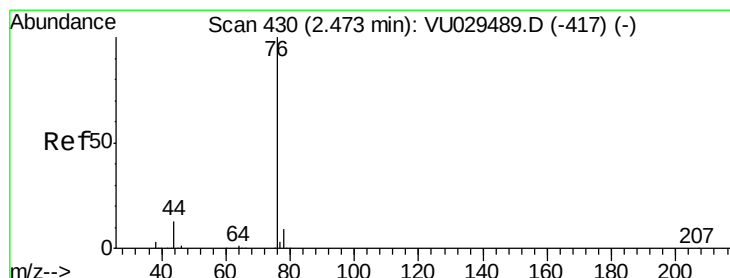
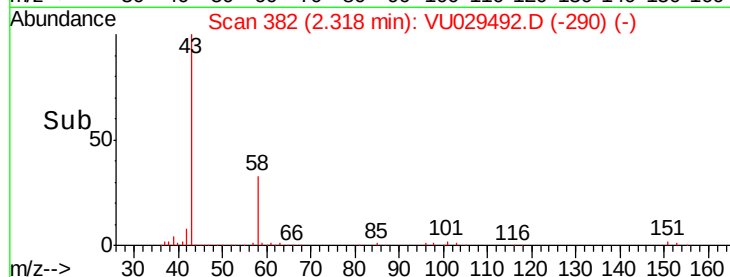
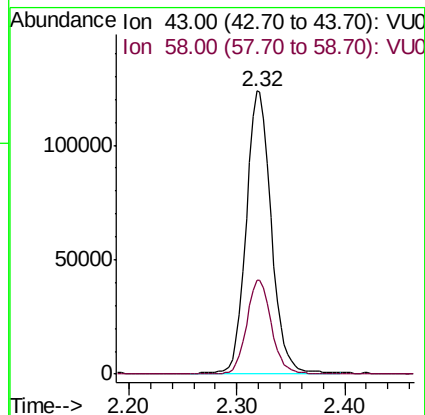
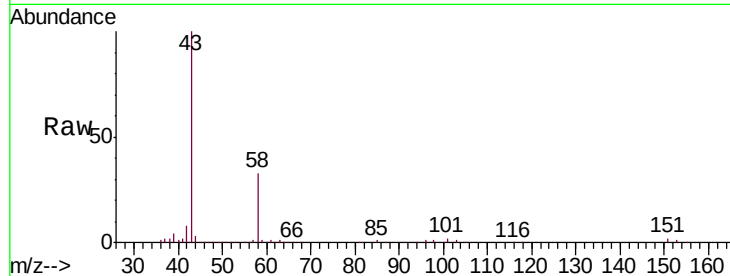
VICV46

Tgt Ion: 43 Resp: 197968

Ion Ratio Lower Upper

43 100

58 32.7 0.0 66.8



#14

Carbon disulfide

Concen: 50.898 ug/L

RT: 2.47 min Scan# 430

Delta R.T. -0.00 min

Lab File: VU029492.D

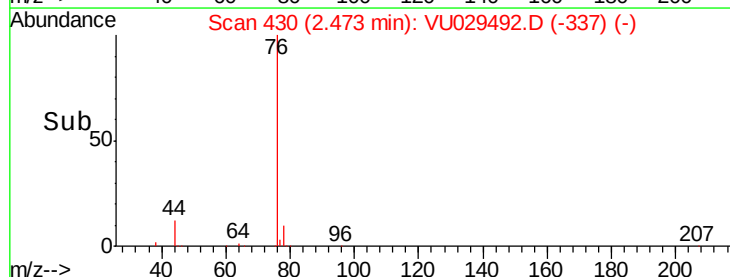
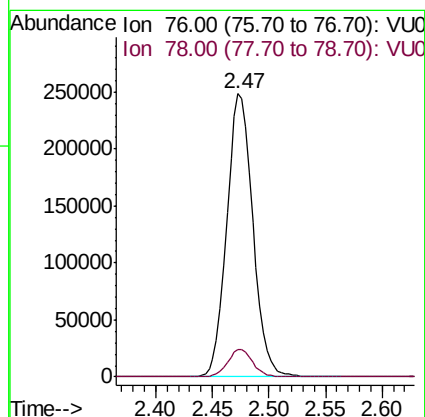
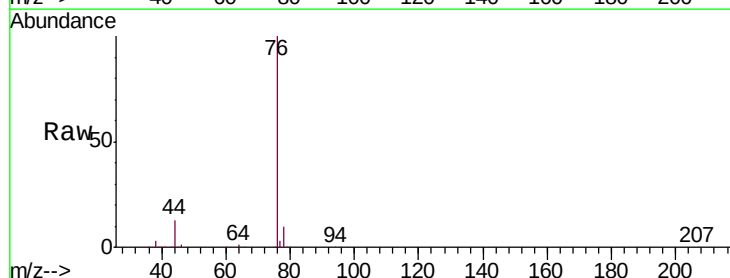
Acq: 15 Feb 2019 12:25

Tgt Ion: 76 Resp: 400072

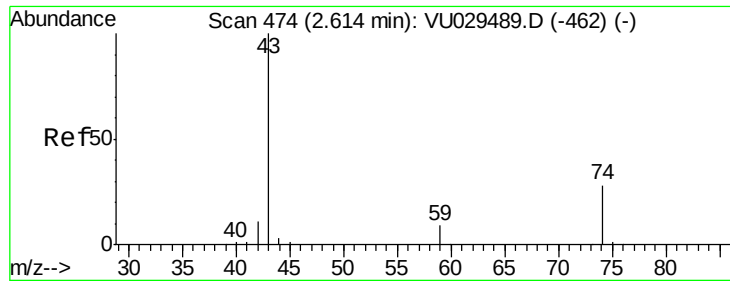
Ion Ratio Lower Upper

76 100

78 9.7 7.4 11.2







#15

Methyl Acetate

Concen: 50.728 ug/L

RT: 2.61 min Scan# 474

Delta R.T. -0.00 min

Lab File: VU029492.D

Acq: 15 Feb 2019 12:25

Instrument :

MSVOA\_U

ClientSampleId :

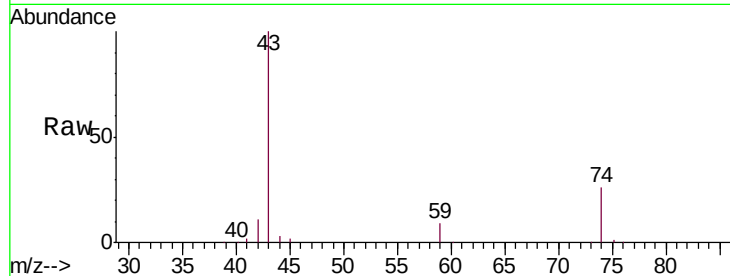
VICV46

Tgt Ion: 43 Resp: 142194

Ion Ratio Lower Upper

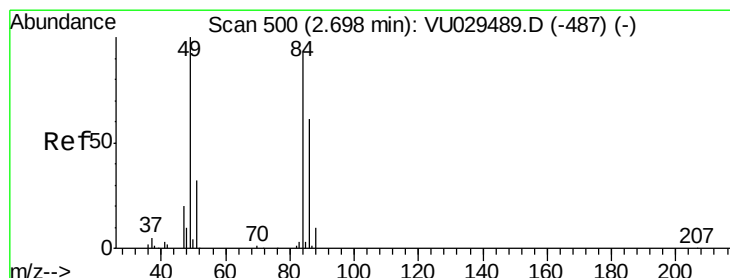
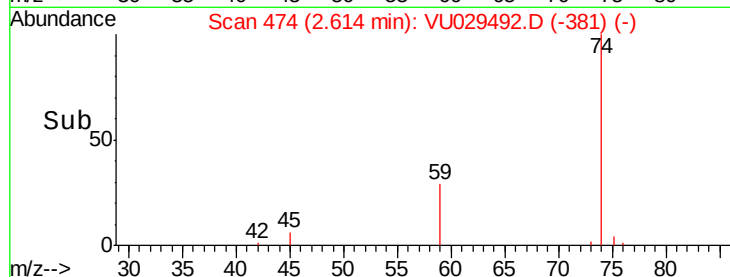
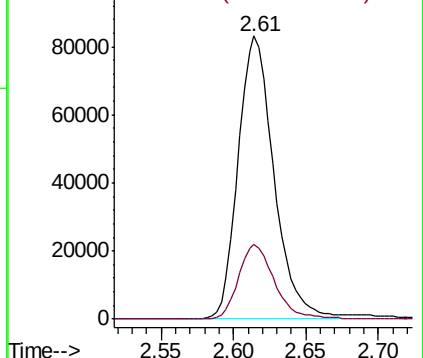
43 100

74 26.5 21.5 32.3



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0



#16

Methylene chloride

Concen: 50.342 ug/L

RT: 2.70 min Scan# 500

Delta R.T. -0.00 min

Lab File: VU029492.D

Acq: 15 Feb 2019 12:25

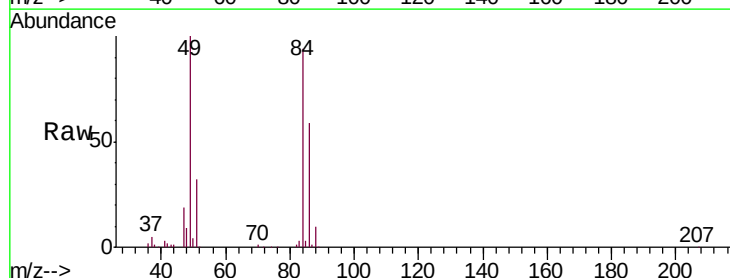
Tgt Ion: 84 Resp: 146202

Ion Ratio Lower Upper

84 100

86 63.2 45.8 85.0

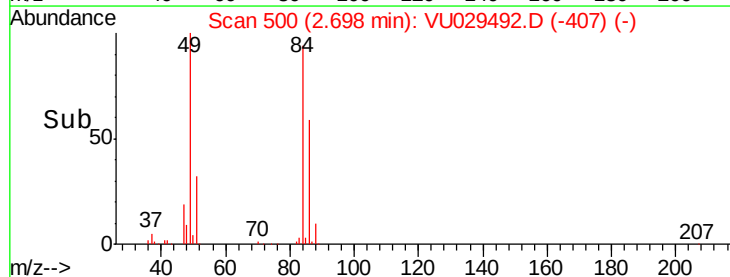
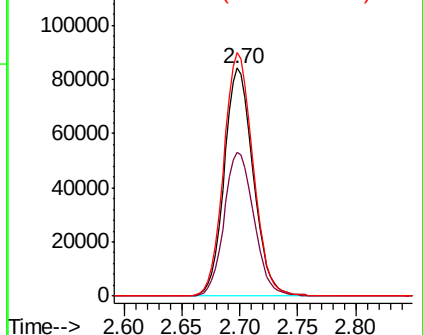
49 106.9 75.1 139.5

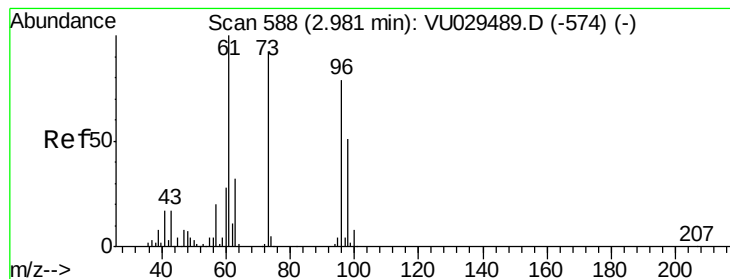


Abundance Ion 84.00 (83.70 to 84.70): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.00 (48.70 to 49.70): VU0





#17

trans-1,2-Dichloroethene

Concen: 50.632 ug/L

RT: 2.98 min Scan# 588

Delta R.T. -0.00 min

Lab File: VU029492.D

Acq: 15 Feb 2019 12:25

Instrument :

MSVOA\_U

ClientSampleId :

VICV46

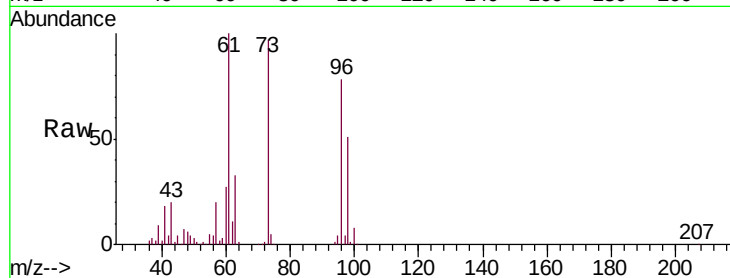
Tgt Ion: 96 Resp: 140256

Ion Ratio Lower Upper

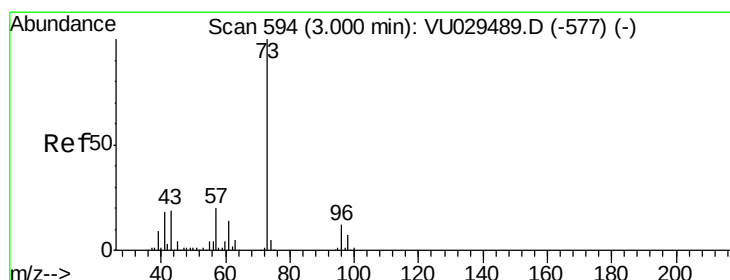
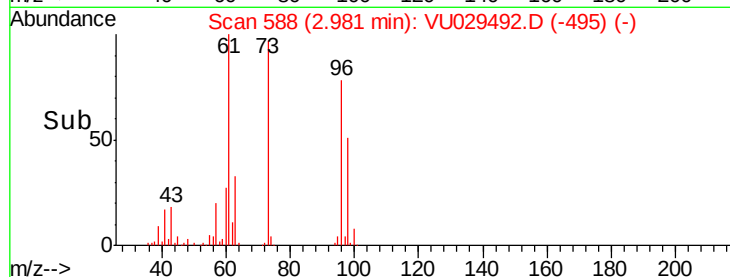
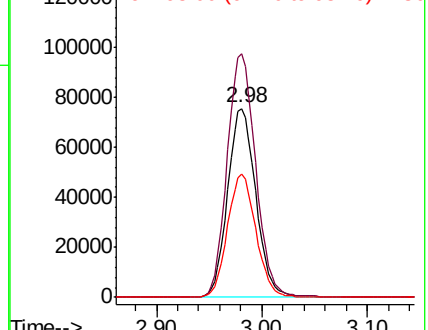
96 100

61 128.7 88.3 163.9

98 65.3 44.8 83.2



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



#18

Methyl tert-butyl Ether

Concen: 49.925 ug/L

RT: 3.00 min Scan# 593

Delta R.T. -0.00 min

Lab File: VU029492.D

Acq: 15 Feb 2019 12:25

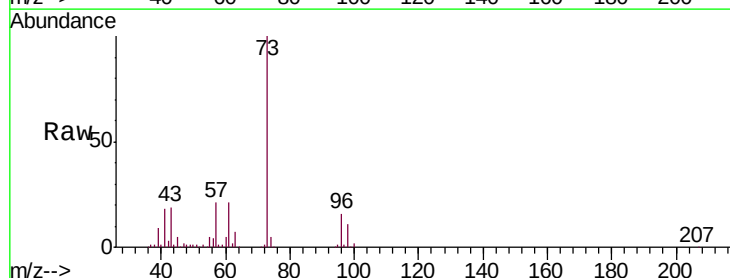
Tgt Ion: 73 Resp: 428168

Ion Ratio Lower Upper

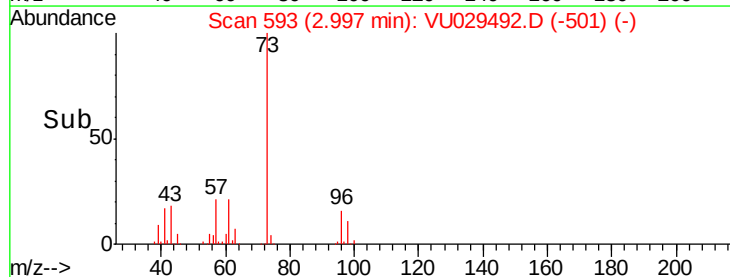
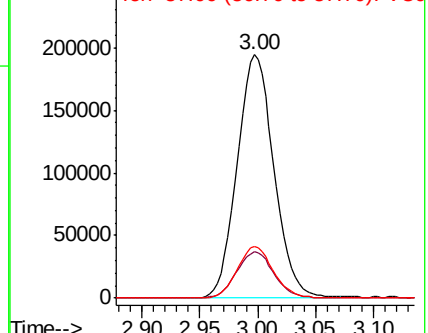
73 100

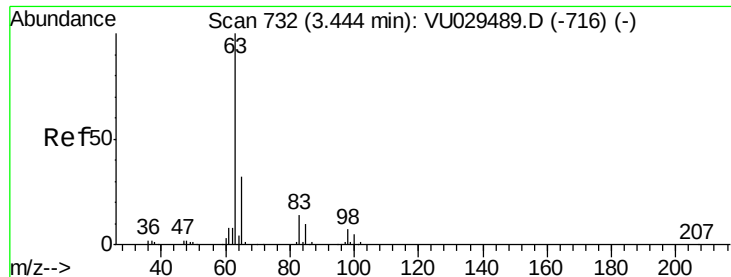
43 19.3 14.8 22.2

57 20.7 16.5 24.7



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

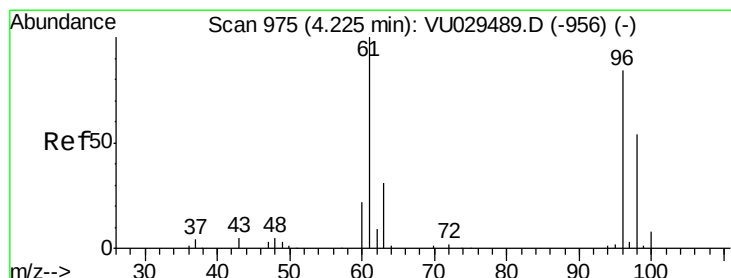
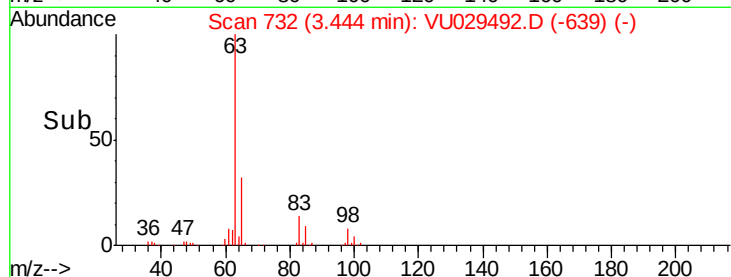
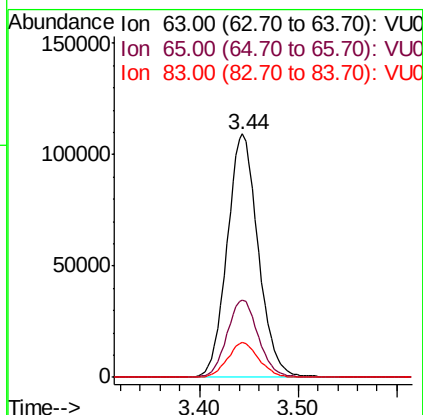
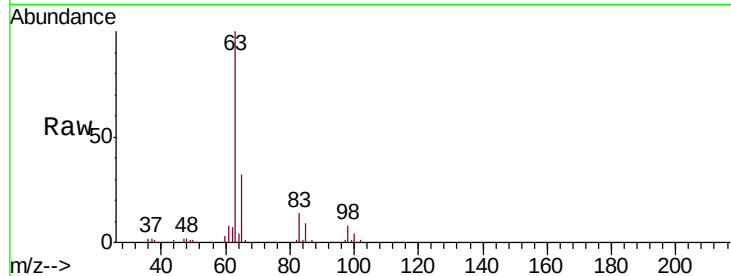




#19  
 1,1-Dichloroethane  
 Concen: 50.201 ug/L  
 RT: 3.44 min Scan# 732  
 Delta R.T. -0.00 min  
 Lab File: VU029492.D  
 Acq: 15 Feb 2019 12:25

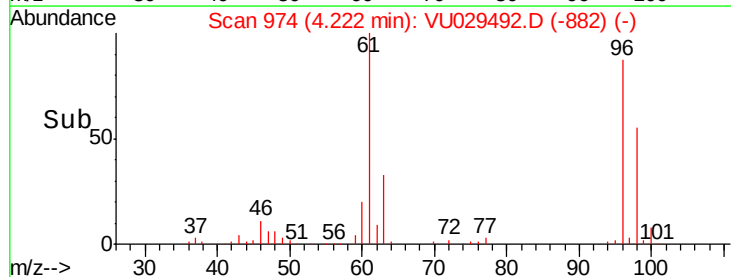
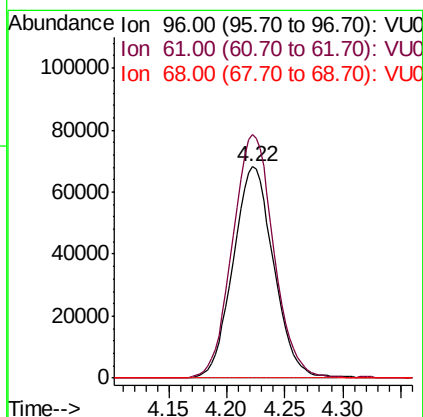
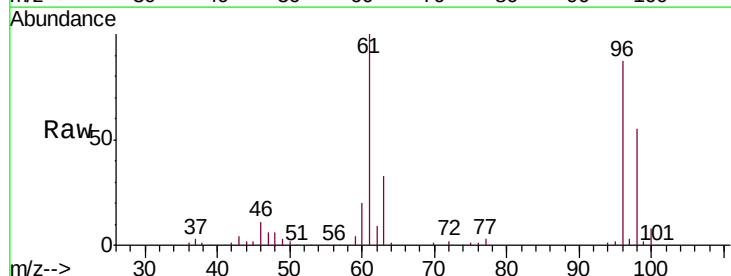
Instrument :  
 MSVOA\_U  
 ClientSampled :  
 VICV46

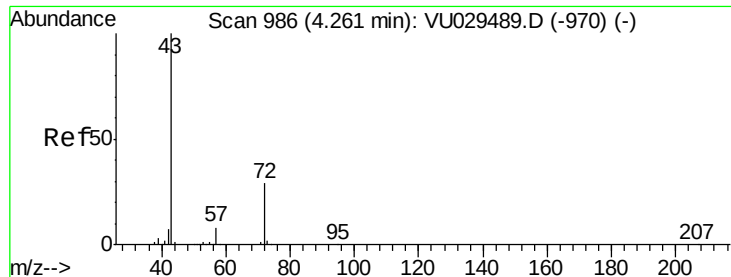
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 65      | 31.9  | 22.3  | 41.3  |
| 83      | 14.3  | 9.9   | 18.3  |



#20  
 cis-1,2-Dichloroethene  
 Concen: 51.390 ug/L  
 RT: 4.22 min Scan# 974  
 Delta R.T. -0.00 min  
 Lab File: VU029492.D  
 Acq: 15 Feb 2019 12:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 115.3 | 83.9  | 155.7 |
| 68      | 0.0   | 0.0   | 0.0   |





#22

2-Butanone

Concen: 98.859 ug/L

RT: 4.26 min Scan# 986

Delta R.T. -0.00 min

Lab File: VU029492.D

Acq: 15 Feb 2019 12:25

Instrument :

MSVOA\_U

ClientSampled :

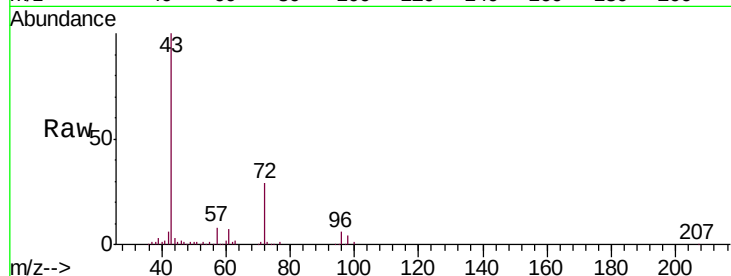
VICV46

Tgt Ion: 43 Resp: 243649

Ion Ratio Lower Upper

43 100

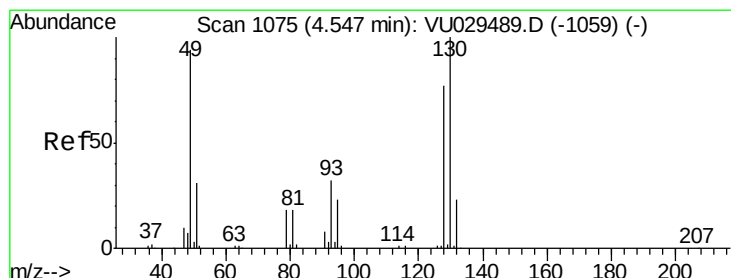
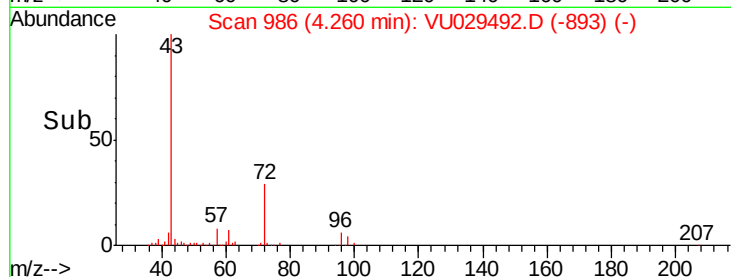
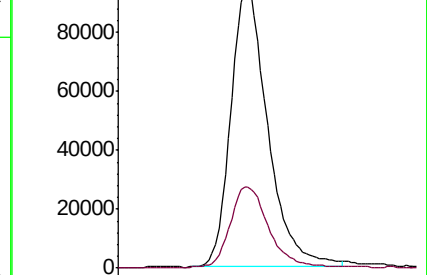
72 30.5 15.2 45.6



Abundance Ion 43.00 (42.70 to 43.70): VU029489.D (-970) (-)

Ion 72.00 (71.70 to 72.70): VU029489.D (-970) (-)

4.26



#23

Bromochloromethane

Concen: 50.711 ug/L

RT: 4.54 min Scan# 1074

Delta R.T. -0.00 min

Lab File: VU029492.D

Acq: 15 Feb 2019 12:25

Tgt Ion: 128 Resp: 89479

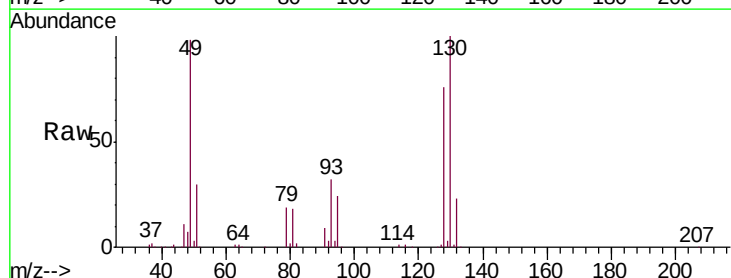
Ion Ratio Lower Upper

128 100

49 128.7 85.9 159.5

130 131.3 91.3 169.5

51 39.7 32.2 48.2

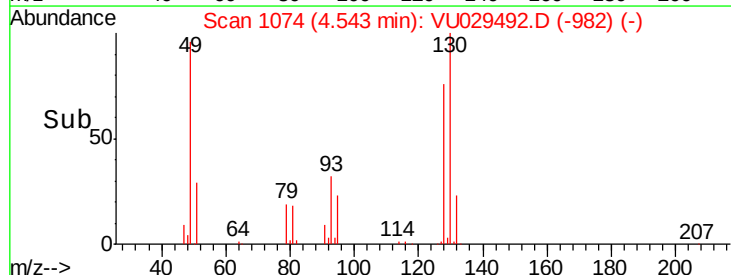
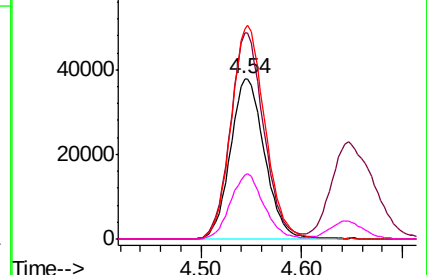


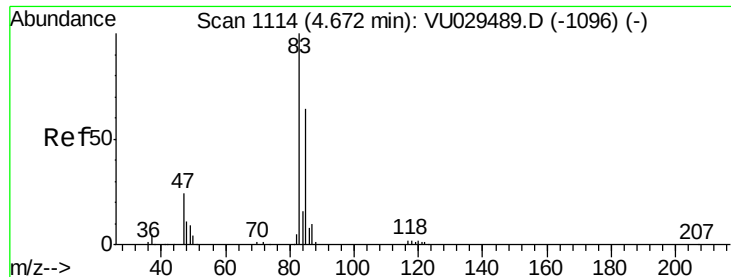
Abundance Ion 128.00 (127.70 to 128.70): VU029489.D (-1059) (-)

Ion 49.00 (48.70 to 49.70): VU029489.D (-1059) (-)

Ion 130.00 (129.70 to 130.70): VU029489.D (-1059) (-)

Ion 51.00 (50.70 to 51.70): VU029489.D (-1059) (-)





#25

Chloroform

Concen: 50.012 ug/L

RT: 4.67 min Scan# 1113

Delta R.T. -0.00 min

Lab File: VU029492.D

Acq: 15 Feb 2019 12:25

Instrument :

MSVOA\_U

ClientSampleId :

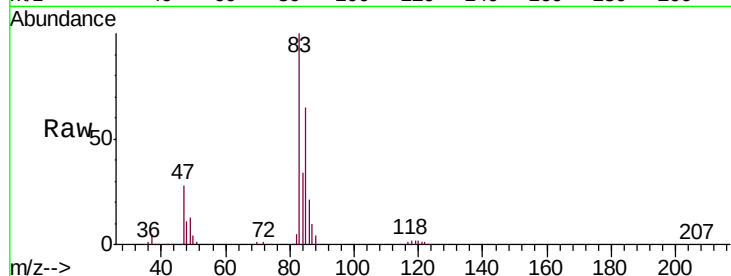
VICV46

Tgt Ion: 83 Resp: 267277

Ion Ratio Lower Upper

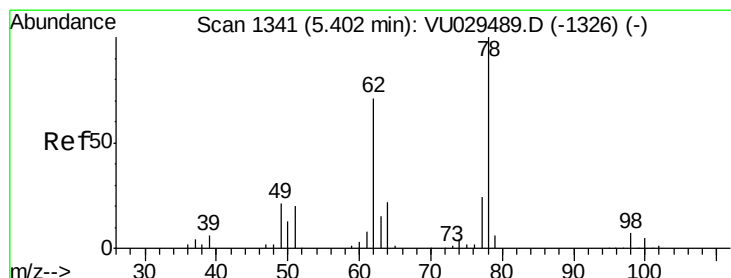
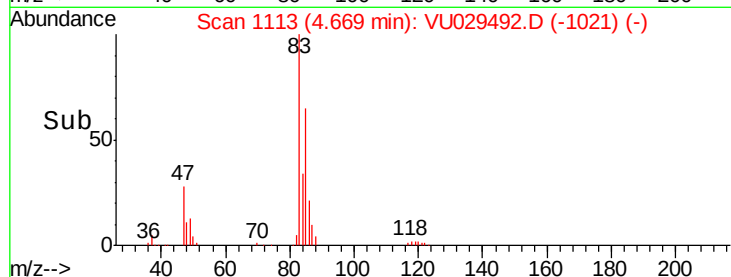
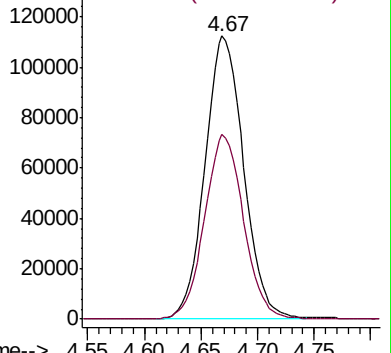
83 100

85 65.4 45.4 84.2



Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#27

1,2-Dichloroethane

Concen: 50.553 ug/L

RT: 5.40 min Scan# 1341

Delta R.T. -0.00 min

Lab File: VU029492.D

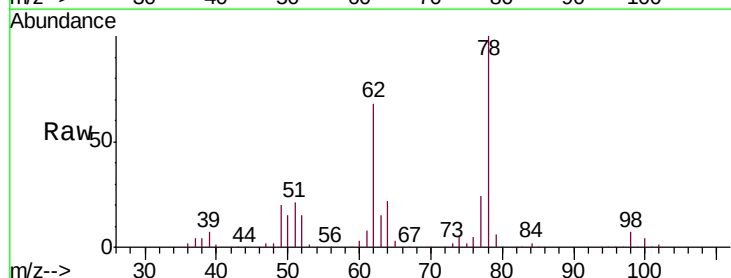
Acq: 15 Feb 2019 12:25

Tgt Ion: 62 Resp: 207717

Ion Ratio Lower Upper

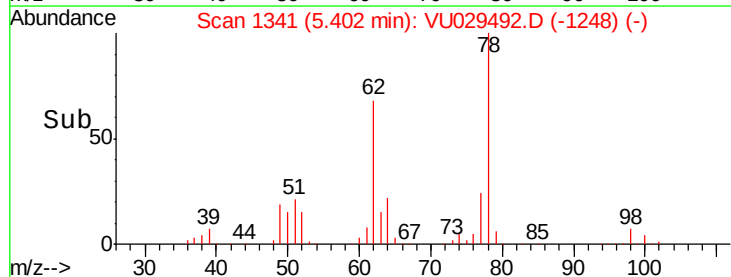
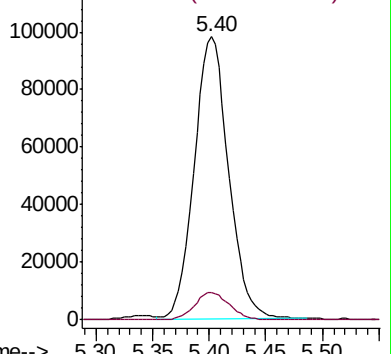
62 100

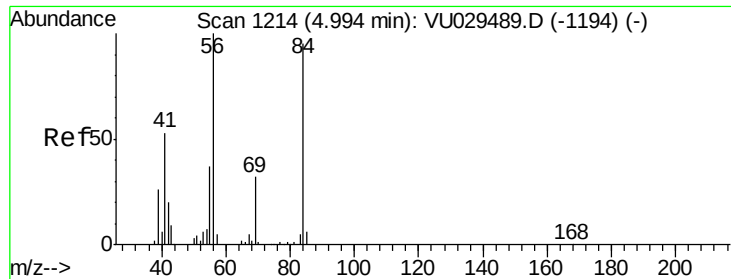
98 9.8 7.8 11.8



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

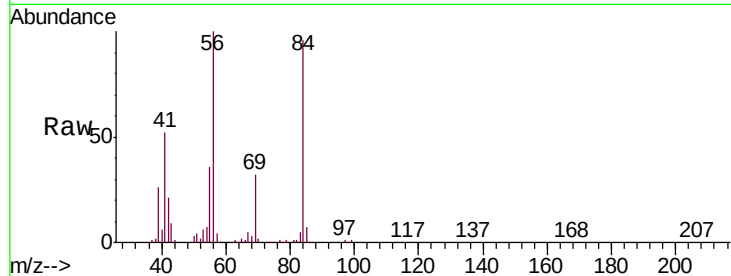




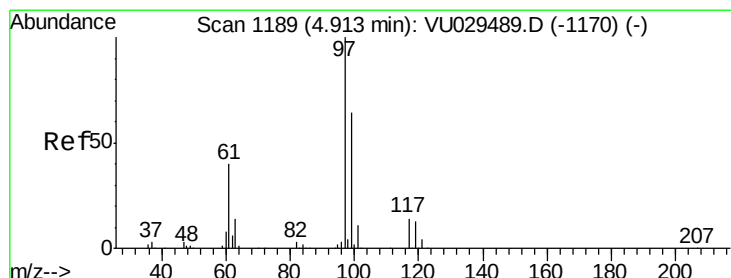
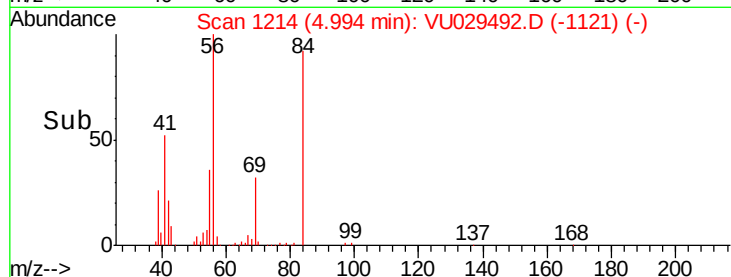
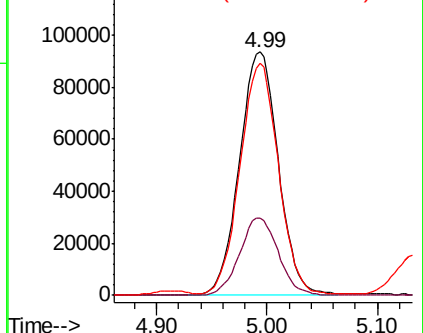
#29  
Cyclohexane  
Concen: 51.989 ug/L  
RT: 4.99 min Scan# 1214  
Delta R.T. -0.00 min  
Lab File: VU029492.D  
Acq: 15 Feb 2019 12:25

Instrument :  
MSVOA\_U  
ClientSampleId :  
VICV46

Tgt Ion: 56 Resp: 229099  
Ion Ratio Lower Upper  
56 100  
69 31.6 25.7 38.5  
84 93.1 77.1 115.7

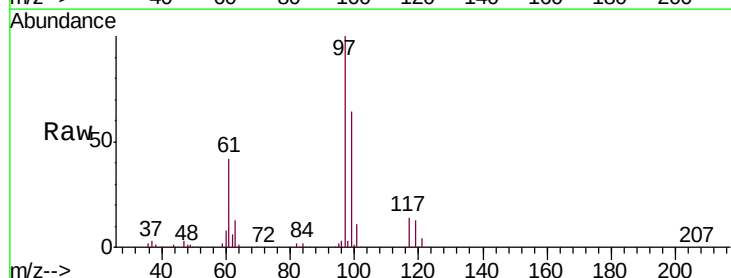


Abundance Ion 56.00 (55.70 to 56.70): VU0  
Ion 69.00 (68.70 to 69.70): VU0  
Ion 84.00 (83.70 to 84.70): VU0

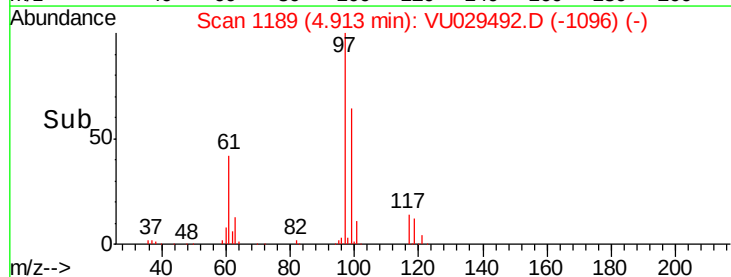
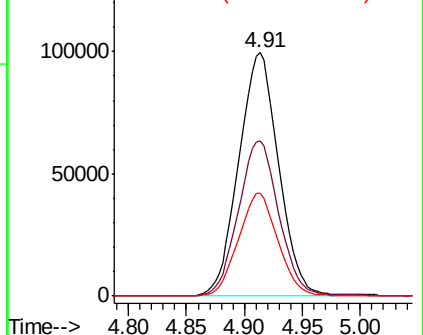


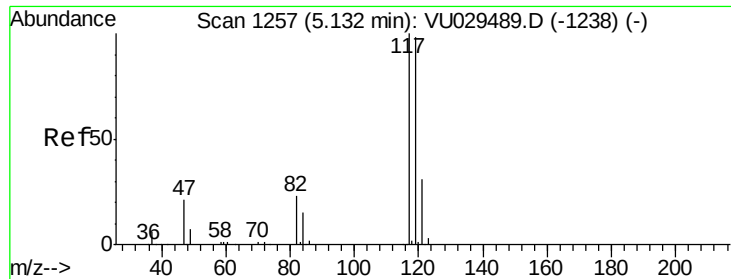
#30  
1,1,1-Trichloroethane  
Concen: 50.537 ug/L  
RT: 4.91 min Scan# 1189  
Delta R.T. -0.00 min  
Lab File: VU029492.D  
Acq: 15 Feb 2019 12:25

Tgt Ion: 97 Resp: 238609  
Ion Ratio Lower Upper  
97 100  
99 65.0 51.4 77.0  
61 42.0 32.3 48.5



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

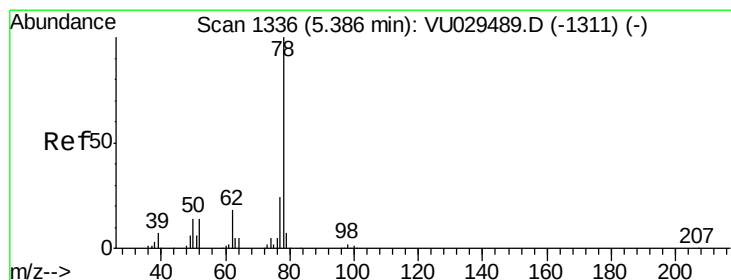
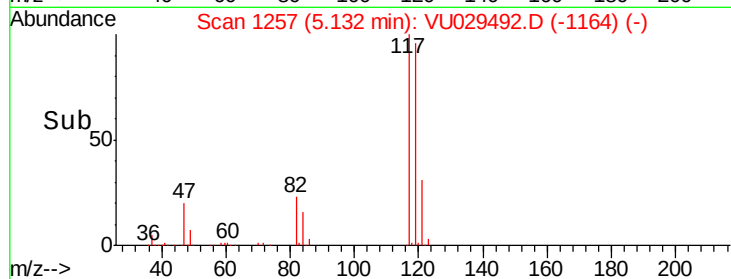
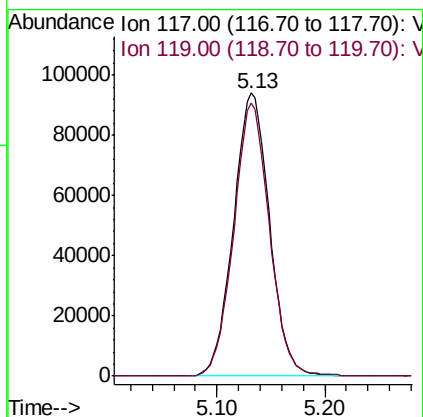
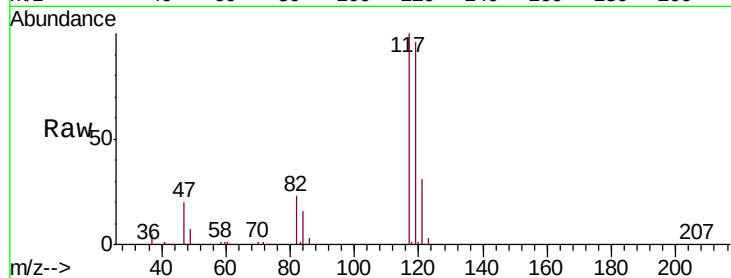




#31  
Carbon tetrachloride  
Concen: 51.249 ug/L  
RT: 5.13 min Scan# 1257  
Delta R.T. -0.00 min  
Lab File: VU029492.D  
Acq: 15 Feb 2019 12:25

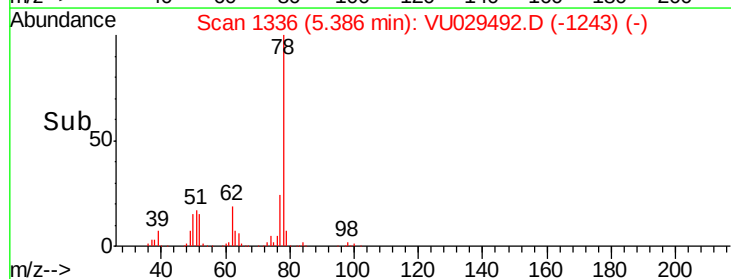
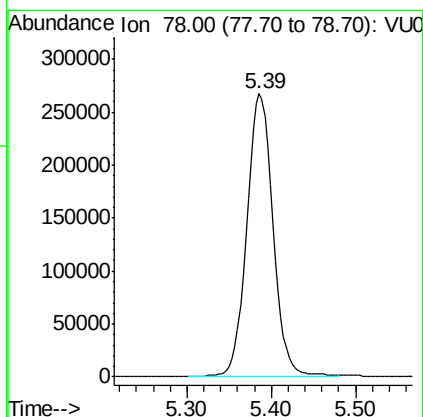
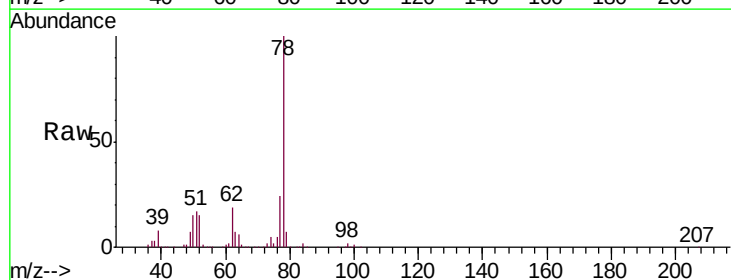
Instrument :  
MSVOA\_U  
ClientSampleId :  
VICV46

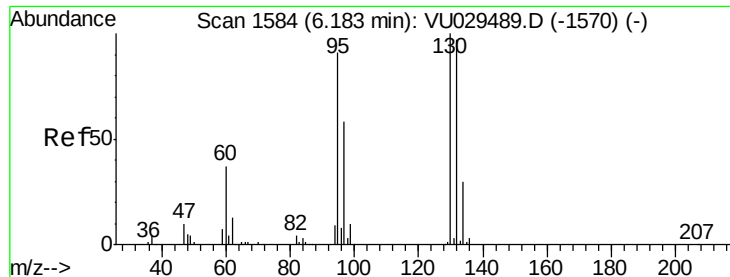
Tgt Ion:117 Resp: 219007  
Ion Ratio Lower Upper  
117 100  
119 95.4 77.8 116.8



#33  
Benzene  
Concen: 50.858 ug/L  
RT: 5.39 min Scan# 1336  
Delta R.T. -0.00 min  
Lab File: VU029492.D  
Acq: 15 Feb 2019 12:25

Tgt Ion: 78 Resp: 580637





#34

Trichloroethene

Concen: 52.317 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. -0.00 min

Lab File: VU029492.D

Acq: 15 Feb 2019 12:25

Instrument :

MSVOA\_U

ClientSampleId :

VICV46

Tgt Ion: 95 Resp: 160903

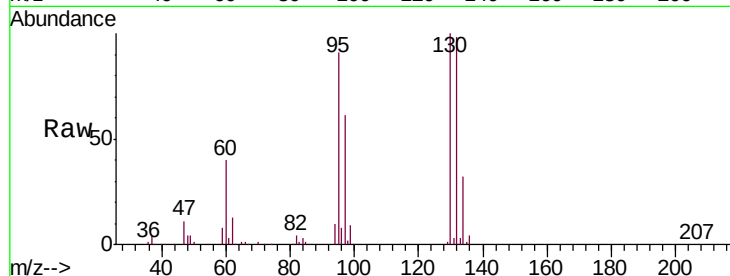
Ion Ratio Lower Upper

95 100

97 66.7 44.6 82.8

132 107.9 74.6 138.6

130 109.9 77.2 143.4

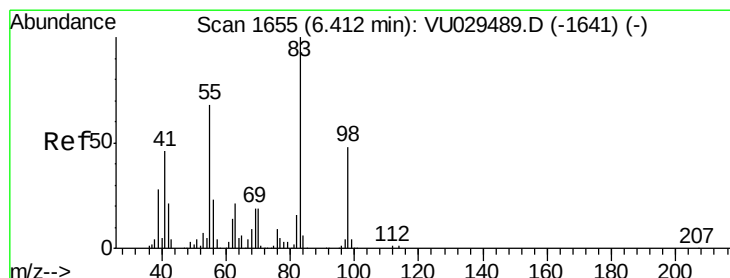
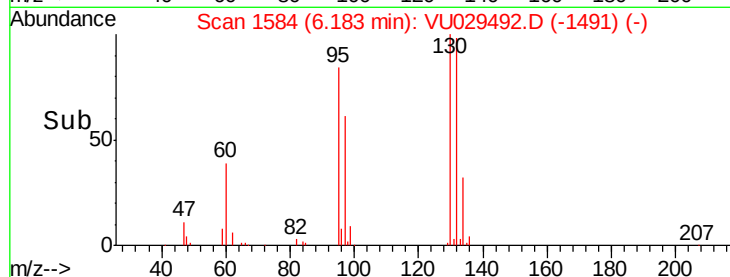
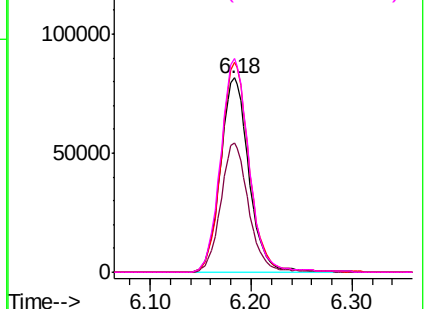


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 52.002 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. -0.00 min

Lab File: VU029492.D

Acq: 15 Feb 2019 12:25

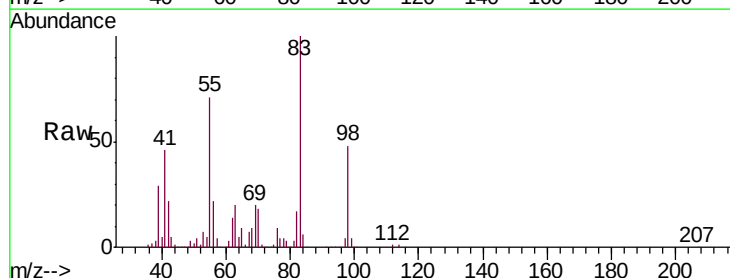
Tgt Ion: 83 Resp: 265607

Ion Ratio Lower Upper

83 100

55 69.9 55.2 82.8

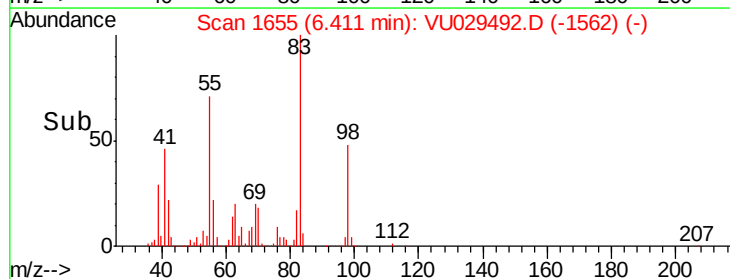
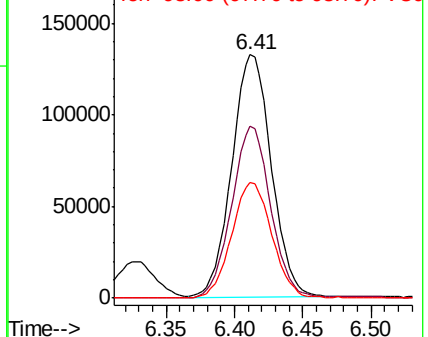
98 48.6 39.4 59.2



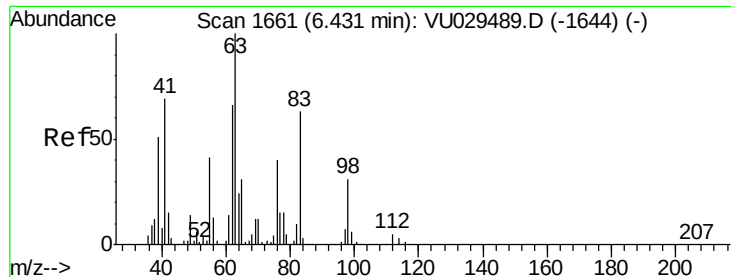
Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0







#37

1,2-Dichloropropane

Concen: 51.976 ug/L

RT: 6.43 min Scan# 1661

Delta R.T. -0.00 min

Lab File: VU029492.D

Acq: 15 Feb 2019 12:25

Instrument :

MSVOA\_U

ClientSampleId :

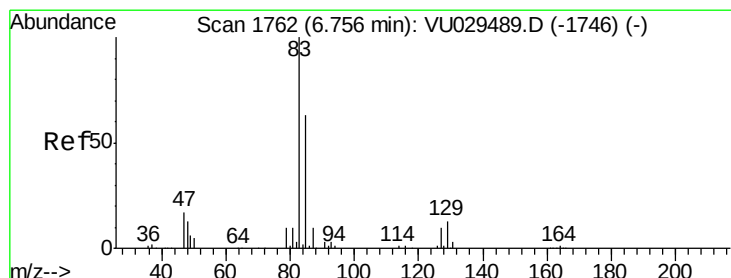
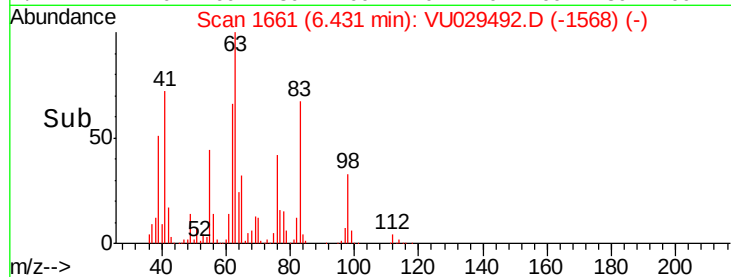
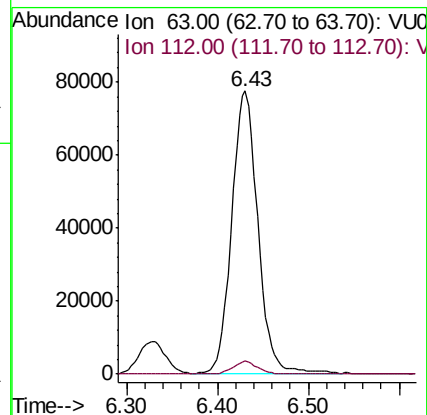
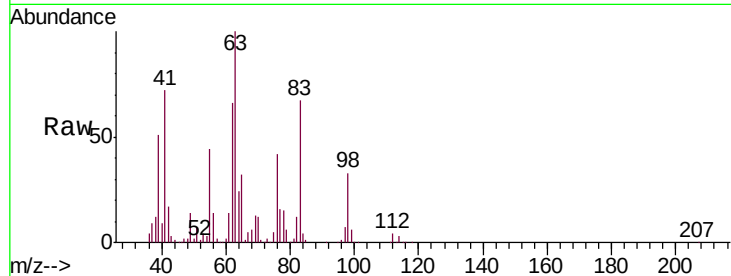
VICV46

Tgt Ion: 63 Resp: 155770

Ion Ratio Lower Upper

63 100

112 4.1 3.6 5.4



#38

Bromodichloromethane

Concen: 51.753 ug/L

RT: 6.75 min Scan# 1761

Delta R.T. -0.00 min

Lab File: VU029492.D

Acq: 15 Feb 2019 12:25

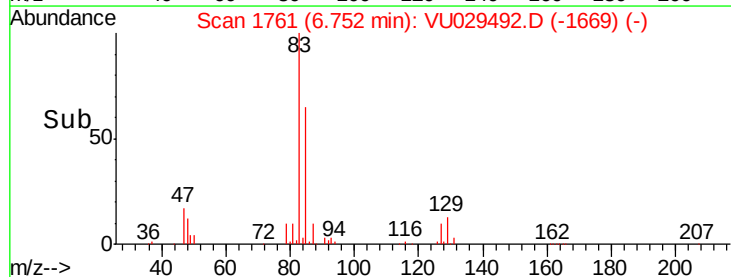
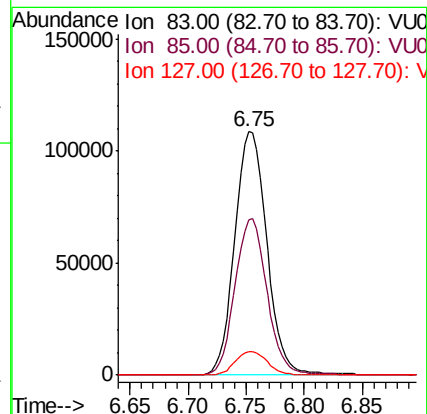
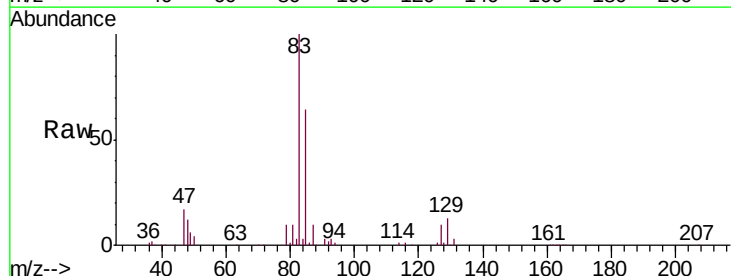
Tgt Ion: 83 Resp: 209098

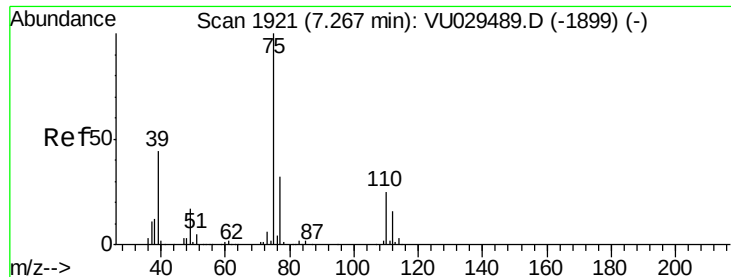
Ion Ratio Lower Upper

83 100

85 63.8 44.2 82.0

127 9.5 8.3 12.5

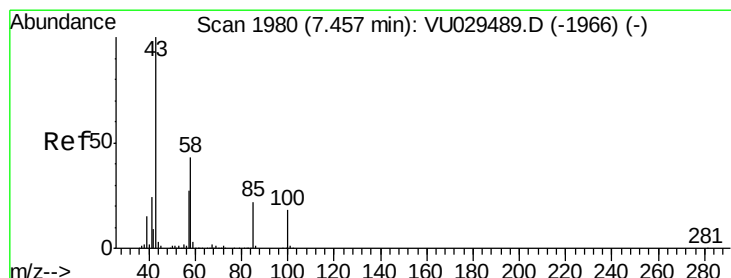
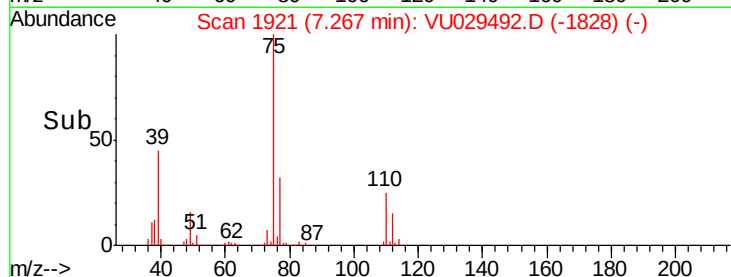
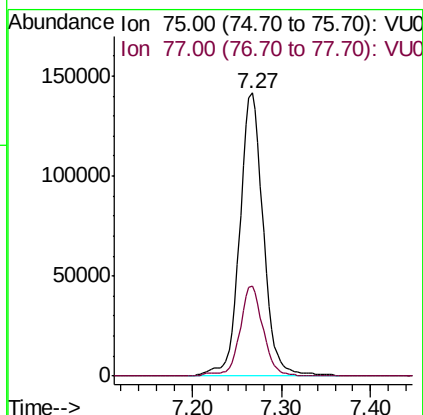
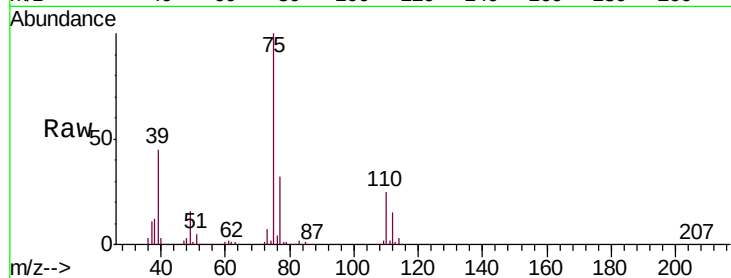




#39  
 cis-1,3-Dichloropropene  
 Concen: 53.679 ug/L  
 RT: 7.27 min Scan# 1921  
 Delta R.T. -0.00 min  
 Lab File: VU029492.D  
 Acq: 15 Feb 2019 12:25

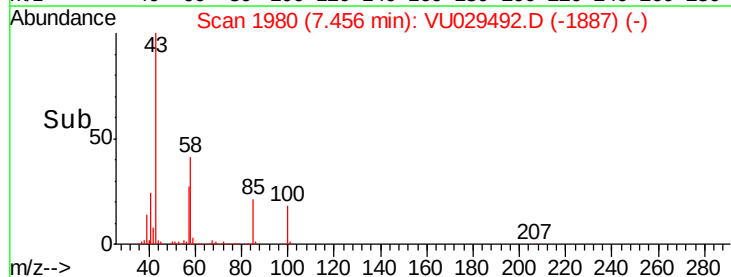
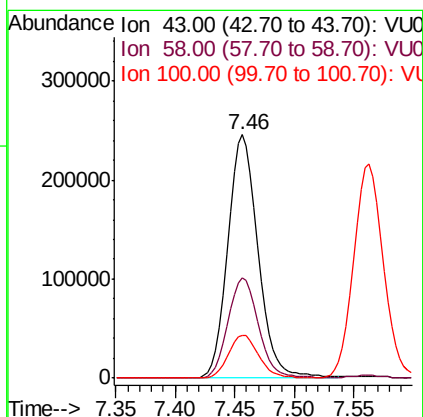
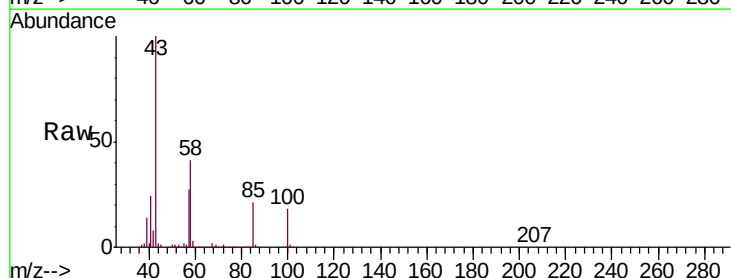
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VICV46

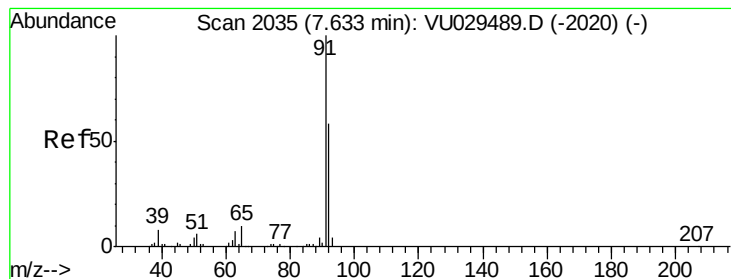
Tgt Ion: 75 Resp: 259552  
 Ion Ratio Lower Upper  
 75 100  
 77 31.9 22.3 41.5



#40  
 4-Methyl-2-pentanone  
 Concen: 102.900 ug/L  
 RT: 7.46 min Scan# 1980  
 Delta R.T. -0.00 min  
 Lab File: VU029492.D  
 Acq: 15 Feb 2019 12:25

Tgt Ion: 43 Resp: 433659  
 Ion Ratio Lower Upper  
 43 100  
 58 41.7 33.0 49.4  
 100 17.7 14.5 21.7





#42

Toluene

Concen: 50.856 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. -0.00 min

Lab File: VU029492.D

Acq: 15 Feb 2019 12:25

Instrument :

MSVOA\_U

ClientSampled :

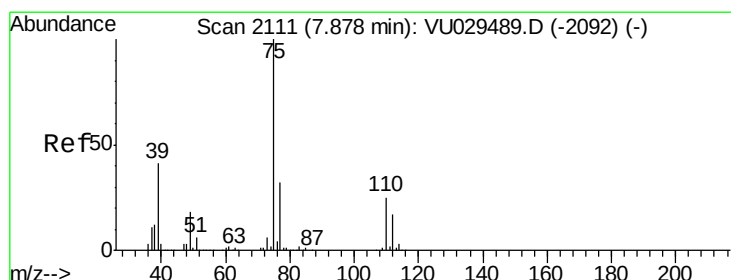
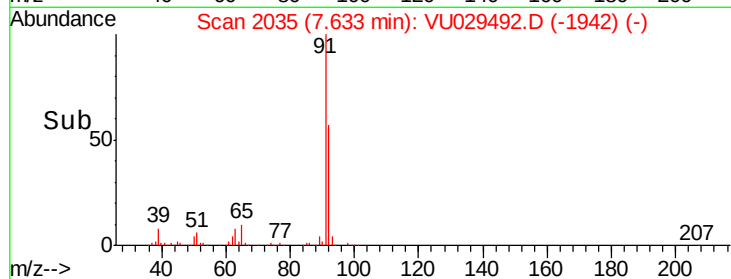
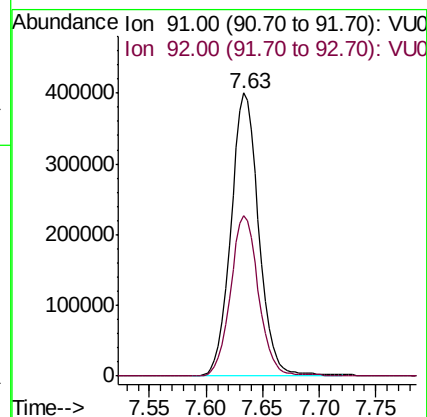
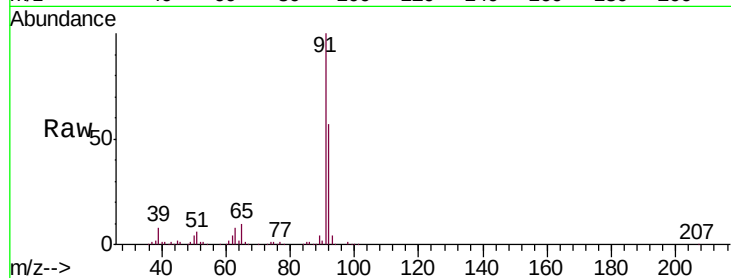
VICV46

Tgt Ion: 91 Resp: 686624

Ion Ratio Lower Upper

91 100

92 56.8 40.8 75.8



#44

trans-1,3-Dichloropropene

Concen: 52.604 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. -0.00 min

Lab File: VU029492.D

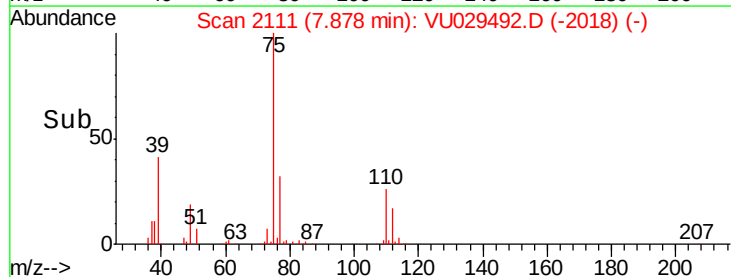
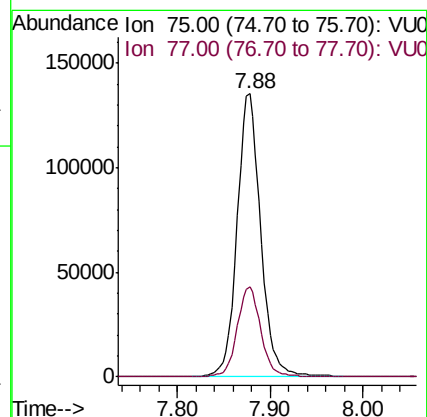
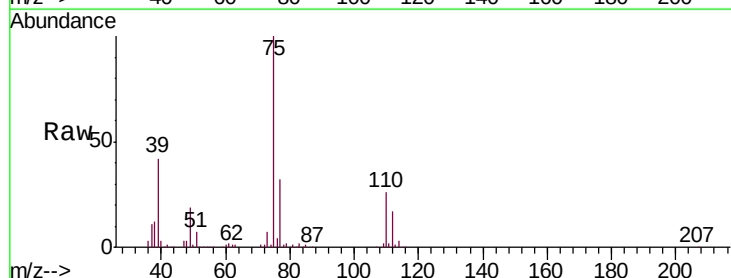
Acq: 15 Feb 2019 12:25

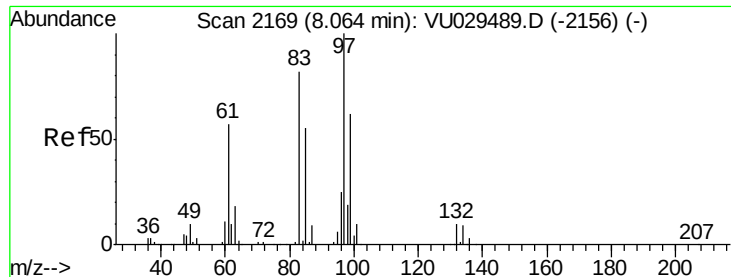
Tgt Ion: 75 Resp: 239712

Ion Ratio Lower Upper

75 100

77 31.8 22.1 41.1

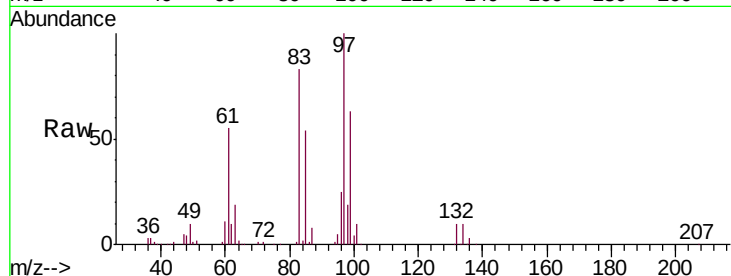




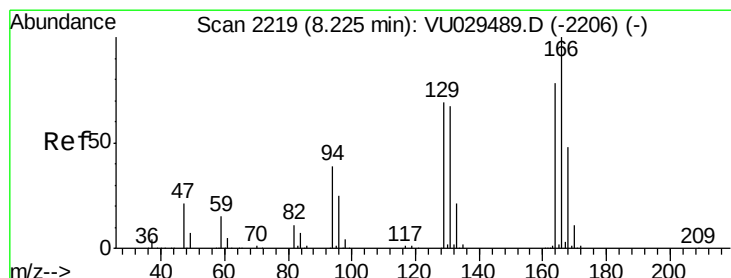
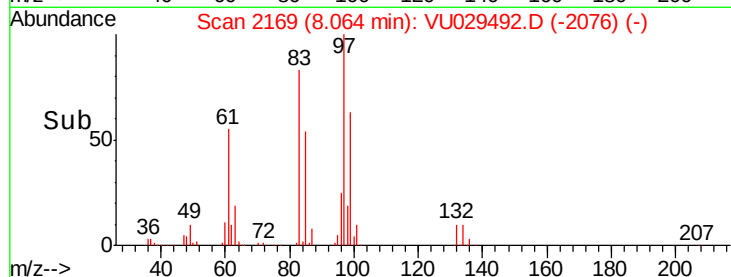
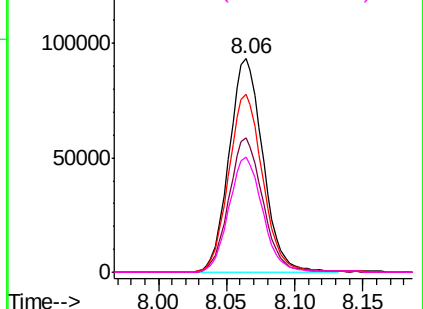
#45  
 1,1,2-Trichloroethane  
 Concen: 50.581 ug/L  
 RT: 8.06 min Scan# 2169  
 Delta R.T. -0.00 min  
 Lab File: VU029492.D  
 Acq: 15 Feb 2019 12:25

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VICV46

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 161575 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 99       | 62.7  | 43.8  | 81.3   |
| 83       | 83.4  | 57.7  | 107.1  |
| 85       | 53.7  | 38.5  | 71.5   |

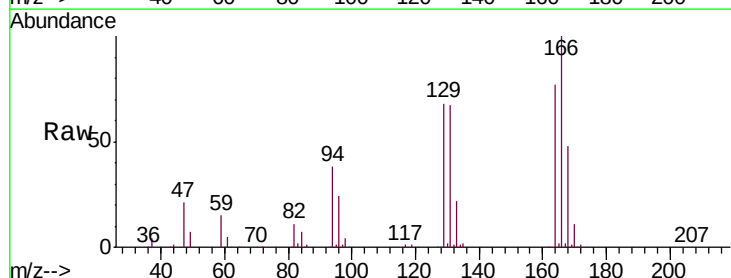


Abundance Ion 97.00 (96.70 to 97.70): VU0  
 Ion 99.00 (98.70 to 99.70): VU0  
 Ion 83.00 (82.70 to 83.70): VU0  
 Ion 85.00 (84.70 to 85.70): VU0

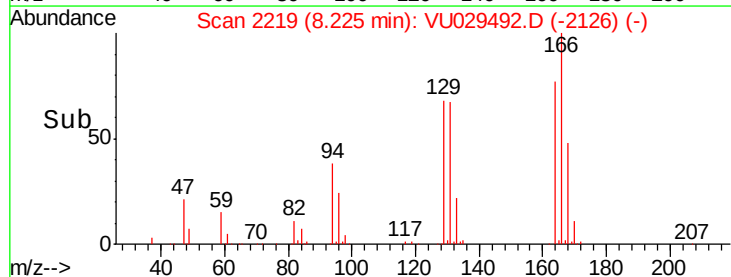
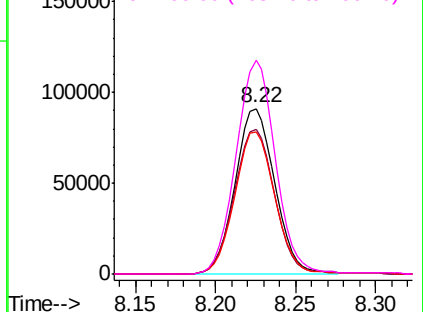


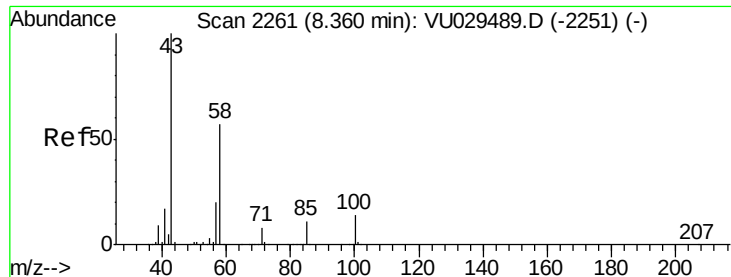
#46  
 Tetrachloroethene  
 Concen: 51.111 ug/L  
 RT: 8.22 min Scan# 2219  
 Delta R.T. -0.00 min  
 Lab File: VU029492.D  
 Acq: 15 Feb 2019 12:25

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 153858 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 129      | 87.5  | 62.1  | 115.3  |
| 131      | 86.0  | 60.1  | 111.5  |
| 166      | 129.1 | 89.7  | 166.5  |



Abundance Ion 164.00 (163.70 to 164.70): V  
 Ion 129.00 (128.70 to 129.70): V  
 Ion 131.00 (130.70 to 131.70): V  
 Ion 166.00 (165.70 to 166.70): V

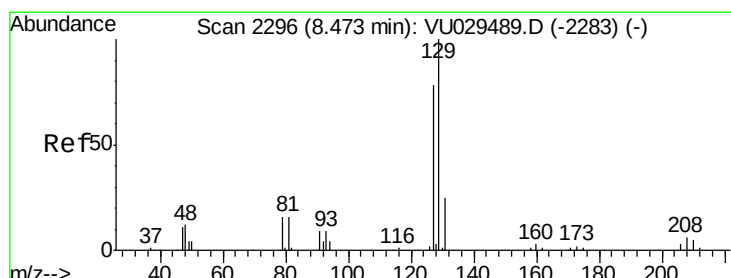
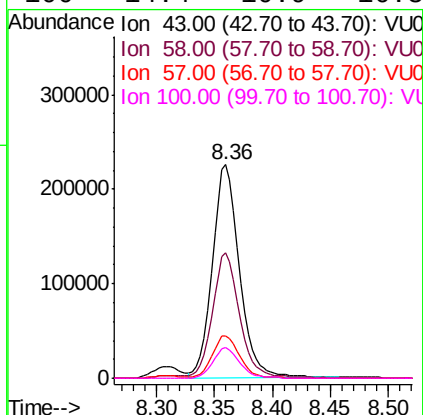
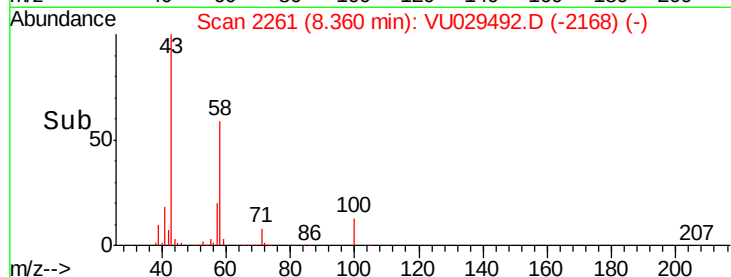
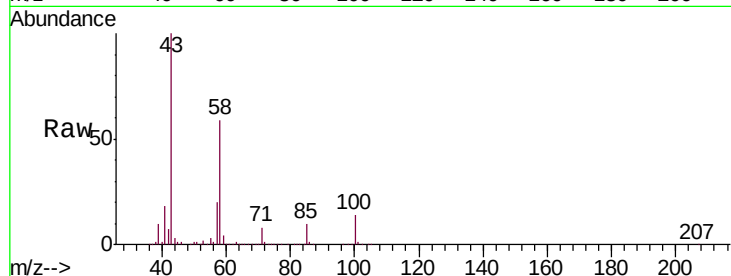




#48  
2-Hexanone  
Concen: 99.645 ug/L  
RT: 8.36 min Scan# 2261  
Delta R.T. -0.00 min  
Lab File: VU029492.D  
Acq: 15 Feb 2019 12:25

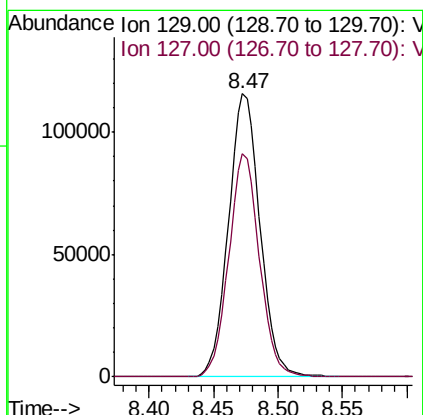
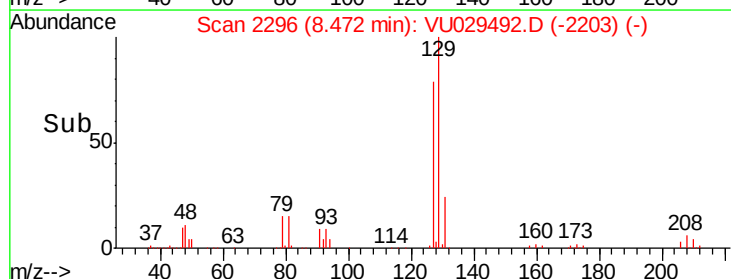
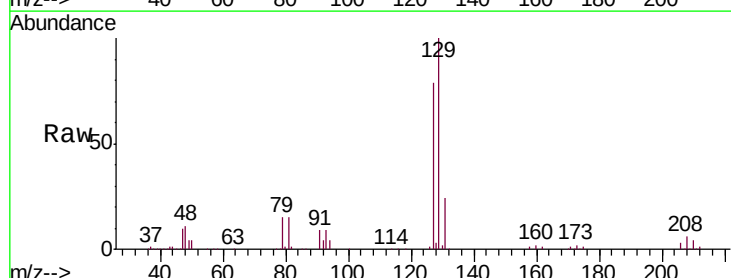
Instrument :  
MSVOA\_U  
ClientSampleId :  
VICV46

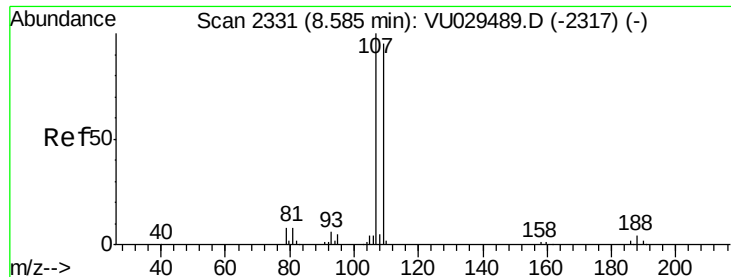
Tgt Ion: 43 Resp: 366848  
Ion Ratio Lower Upper  
43 100  
58 58.5 46.4 69.6  
57 20.1 15.7 23.5  
100 14.4 10.9 16.3



#49  
Dibromochloromethane  
Concen: 50.750 ug/L  
RT: 8.47 min Scan# 2296  
Delta R.T. -0.00 min  
Lab File: VU029492.D  
Acq: 15 Feb 2019 12:25

Tgt Ion: 129 Resp: 196534  
Ion Ratio Lower Upper  
129 100  
127 78.7 54.4 101.0

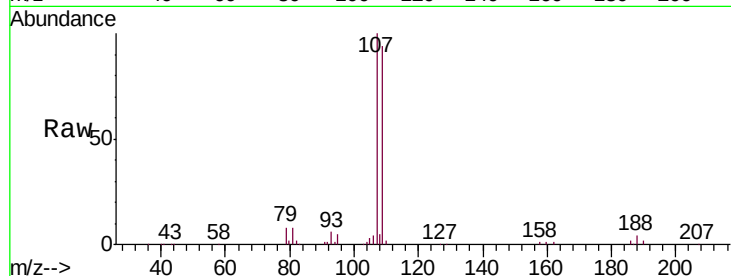




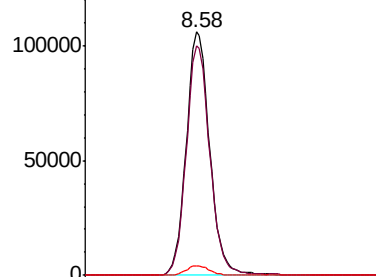
#50  
1,2-Dibromoethane  
Concen: 51.684 ug/L  
RT: 8.58 min Scan# 2330  
Delta R.T. -0.00 min  
Lab File: VU029492.D  
Acq: 15 Feb 2019 12:25

Instrument :  
MSVOA\_U  
ClientSampled :  
VICV46

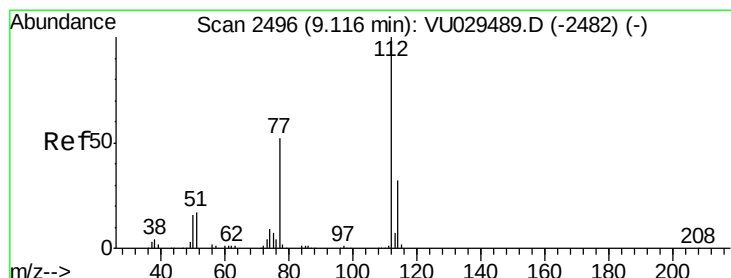
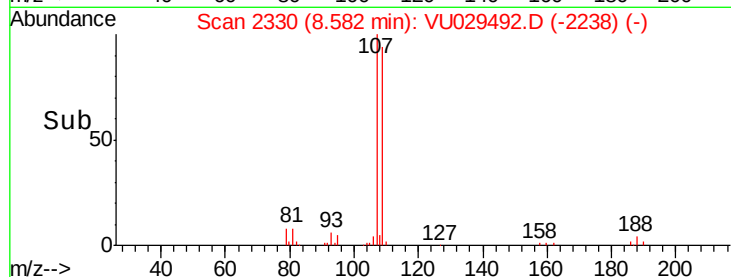
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 109     | 94.0  | 66.4  | 123.4 |
| 188     | 4.0   | 3.5   | 5.3   |



Abundance Ion 107.00 (106.70 to 107.70): V  
Ion 109.00 (108.70 to 109.70): V  
Ion 188.00 (187.70 to 188.70): V

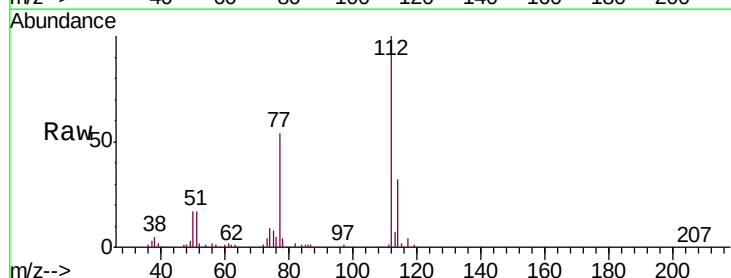


Time-->

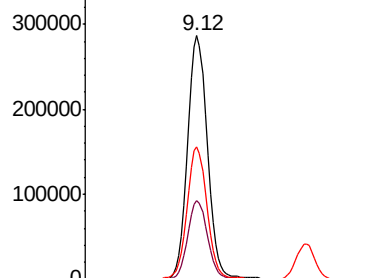


#51  
Chlorobenzene  
Concen: 51.292 ug/L  
RT: 9.12 min Scan# 2496  
Delta R.T. -0.00 min  
Lab File: VU029492.D  
Acq: 15 Feb 2019 12:25

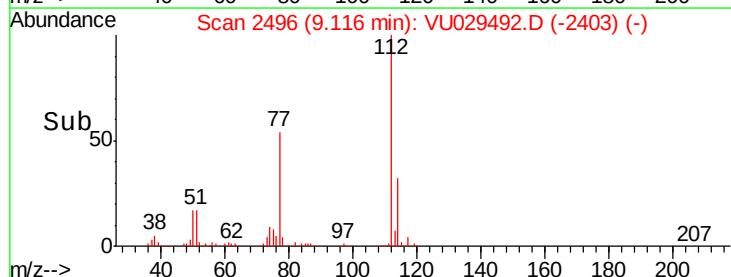
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 114     | 32.3  | 22.7  | 42.1  |
| 77      | 54.5  | 42.1  | 63.1  |

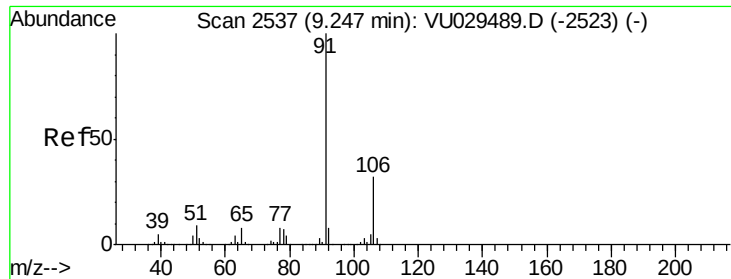


Abundance Ion 112.00 (111.70 to 112.70): V  
Ion 114.00 (113.70 to 114.70): V  
Ion 77.00 (76.70 to 77.70): VU



Time-->





#52

Ethylbenzene

Concen: 51.342 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. -0.00 min

Lab File: VU029492.D

Acq: 15 Feb 2019 12:25

Instrument :

MSVOA\_U

ClientSampled :

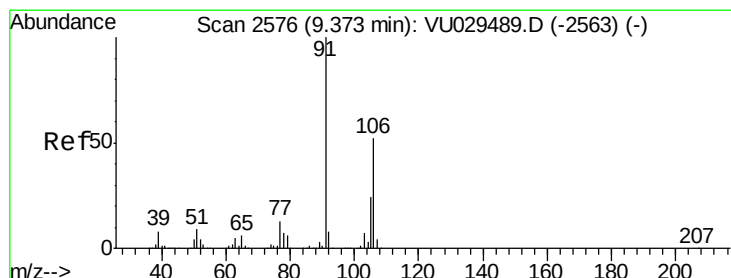
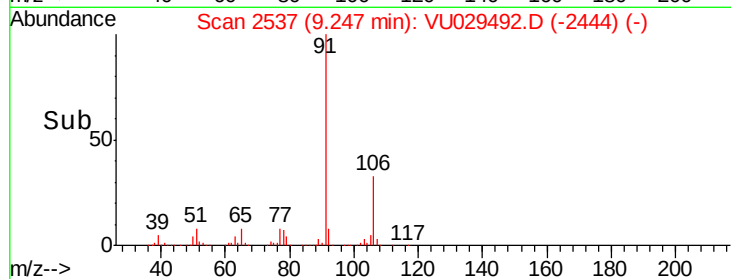
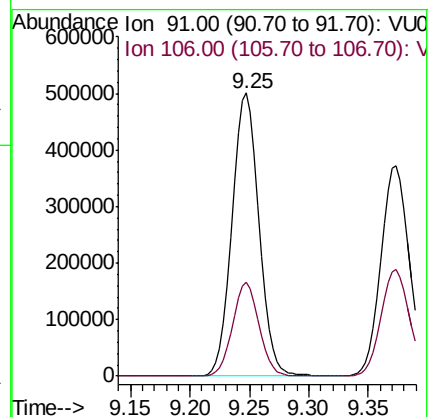
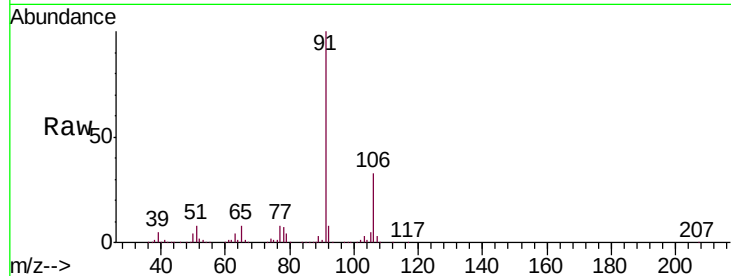
VICV46

Tgt Ion: 91 Resp: 787274

Ion Ratio Lower Upper

91 100

106 33.0 22.7 42.1



#53

m,p-Xylene

Concen: 50.664 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. -0.00 min

Lab File: VU029492.D

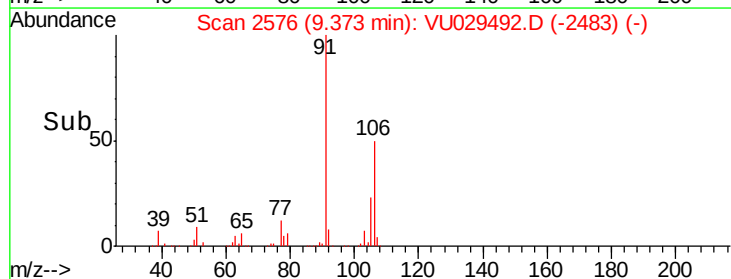
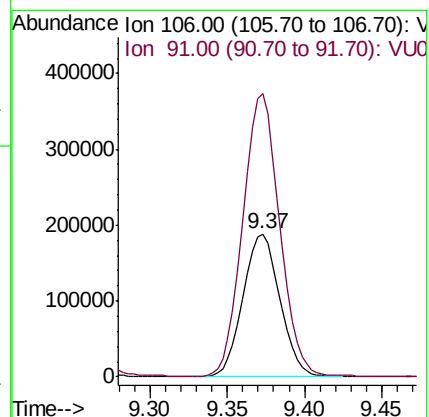
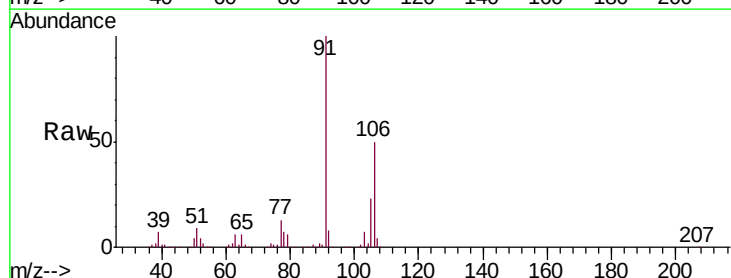
Acq: 15 Feb 2019 12:25

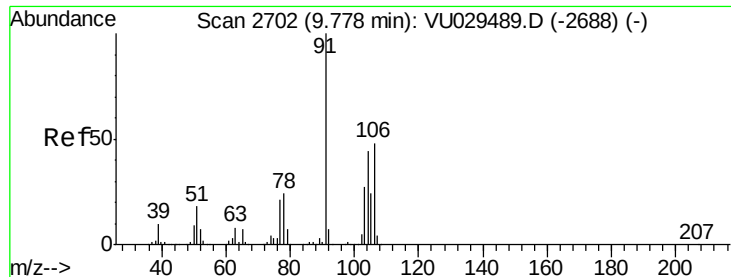
Tgt Ion: 106 Resp: 311850

Ion Ratio Lower Upper

106 100

91 198.3 135.3 251.3





#54

o-xylene

Concen: 51.018 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. -0.00 min

Lab File: VU029492.D

Acq: 15 Feb 2019 12:25

Instrument :

MSVOA\_U

ClientSampleId :

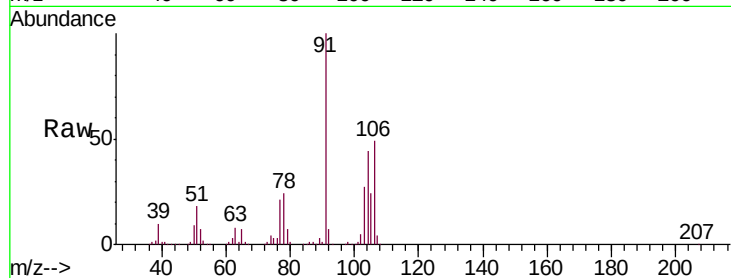
VICV46

Tgt Ion:106 Resp: 315439

Ion Ratio Lower Upper

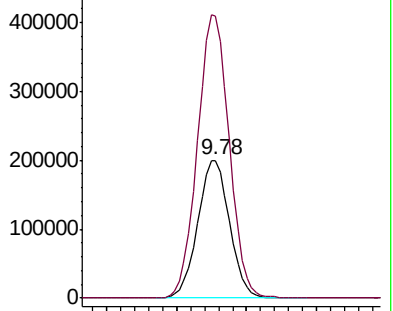
106 100

91 204.3 144.5 268.3

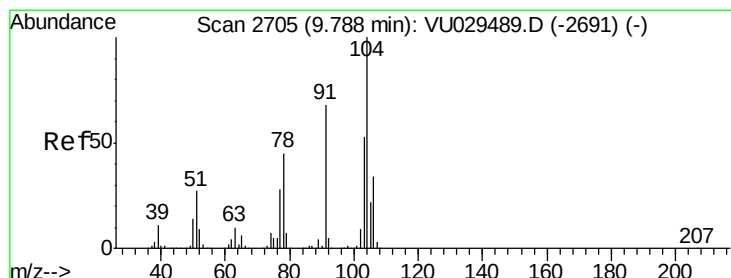
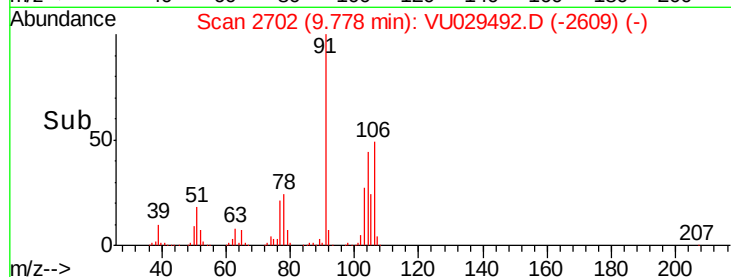


Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



Time-->



#55

Styrene

Concen: 50.905 ug/L

RT: 9.79 min Scan# 2706

Delta R.T. 0.00 min

Lab File: VU029492.D

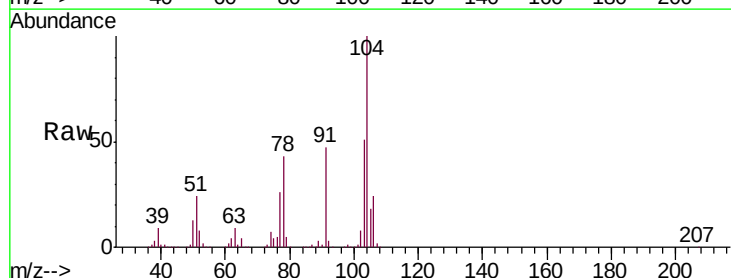
Acq: 15 Feb 2019 12:25

Tgt Ion:104 Resp: 531320

Ion Ratio Lower Upper

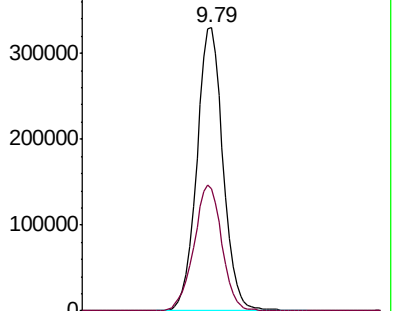
104 100

78 43.0 31.3 58.1

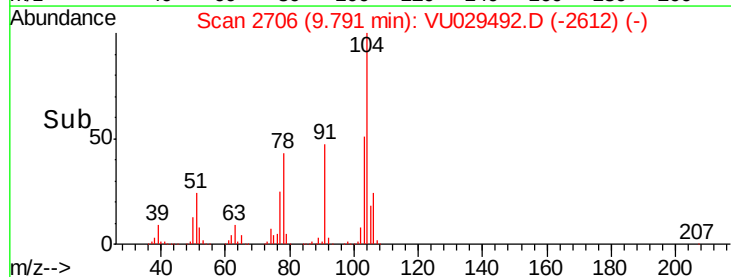


Abundance Ion 104.00 (103.70 to 104.70): V

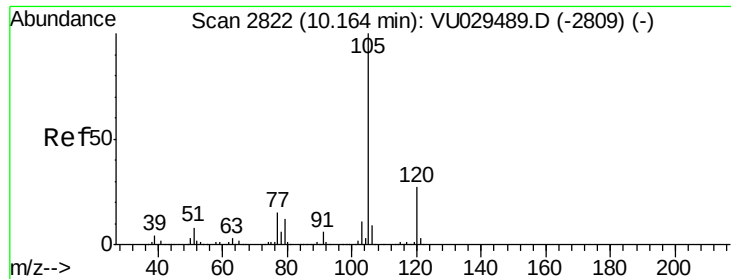
Ion 78.00 (77.70 to 78.70): VU0



Time-->







#56

Isopropylbenzene

Concen: 50.911 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. -0.00 min

Lab File: VU029492.D

Acq: 15 Feb 2019 12:25

Instrument :

MSVOA\_U

ClientSampleId :

VICV46

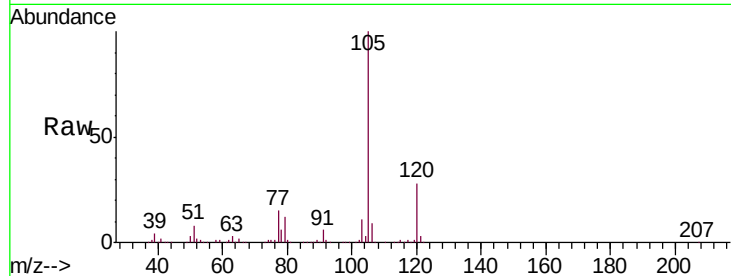
Tgt Ion:105 Resp: 823679

Ion Ratio Lower Upper

105 100

120 27.4 21.9 32.9

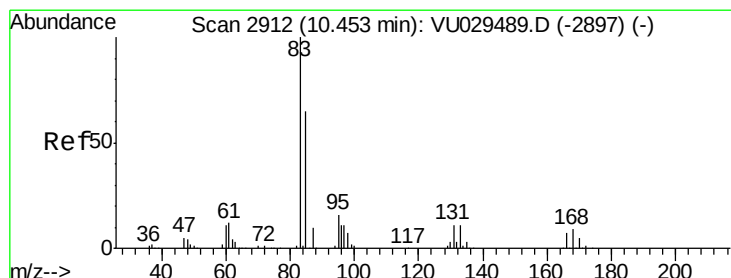
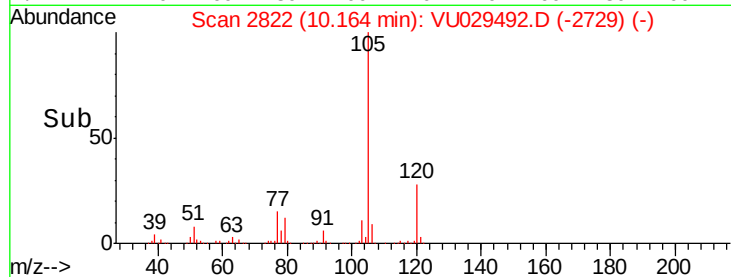
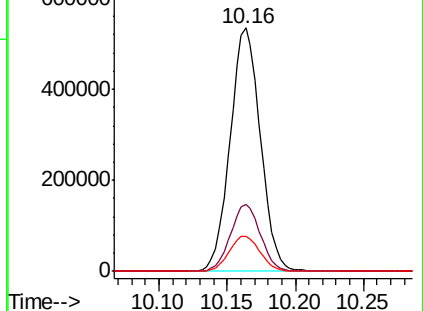
77 14.9 11.7 17.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 50.030 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. -0.00 min

Lab File: VU029492.D

Acq: 15 Feb 2019 12:25

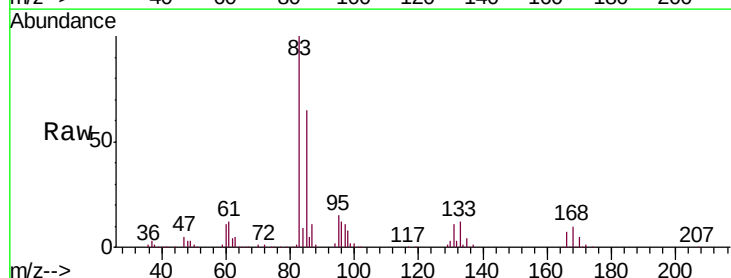
Tgt Ion: 83 Resp: 282604

Ion Ratio Lower Upper

83 100

85 64.5 45.5 84.5

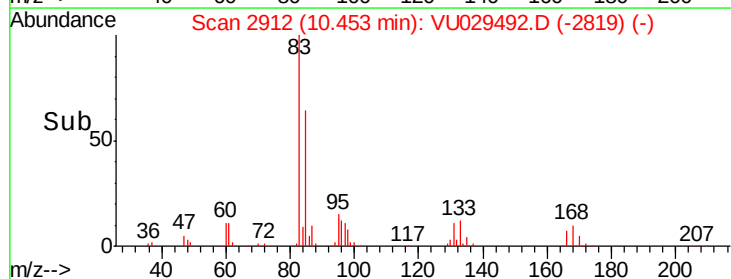
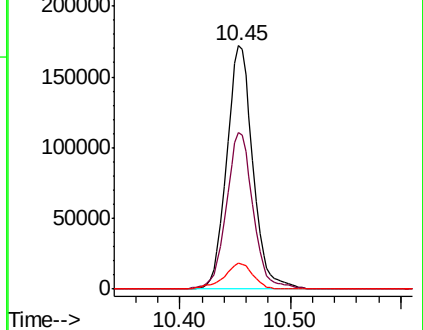
131 10.5 8.6 12.8

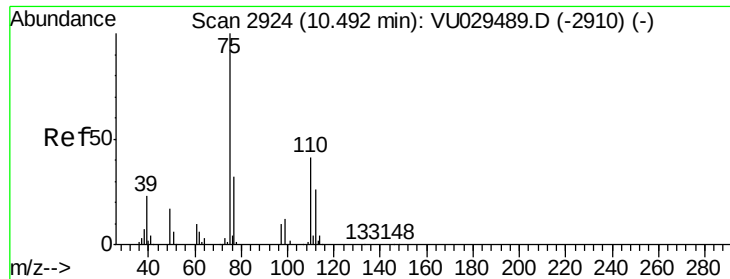


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

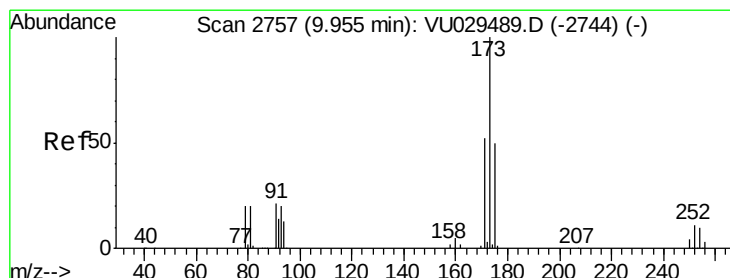
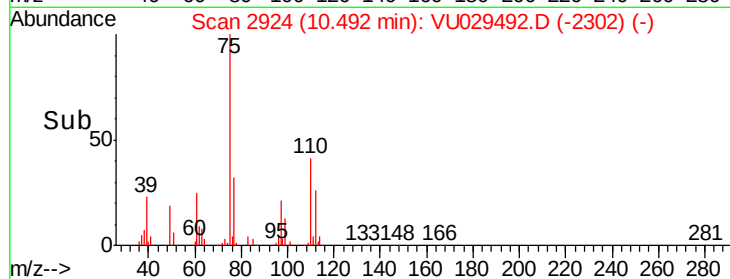
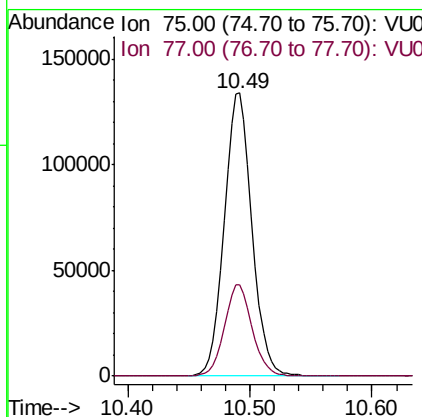
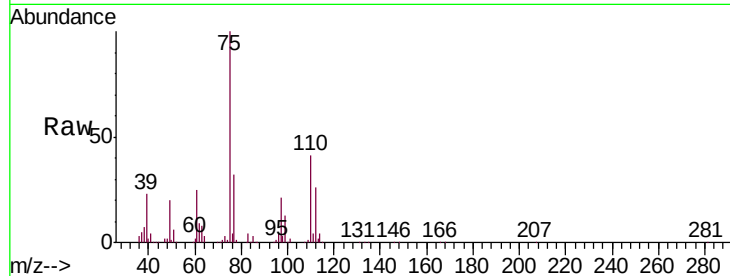




#59  
 1,2,3-Trichloropropane  
 Concen: 49.856 ug/L  
 RT: 10.49 min Scan# 2924  
 Delta R.T. -0.00 min  
 Lab File: VU029492.D  
 Acq: 15 Feb 2019 12:25

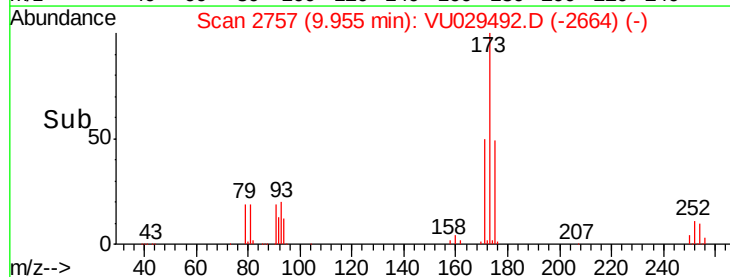
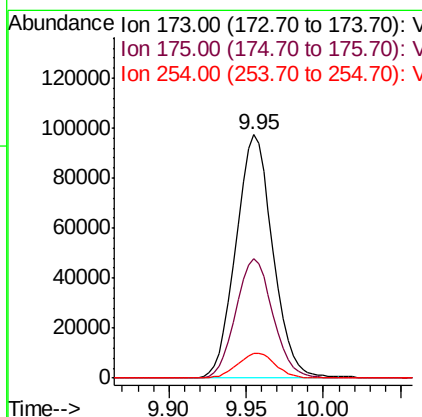
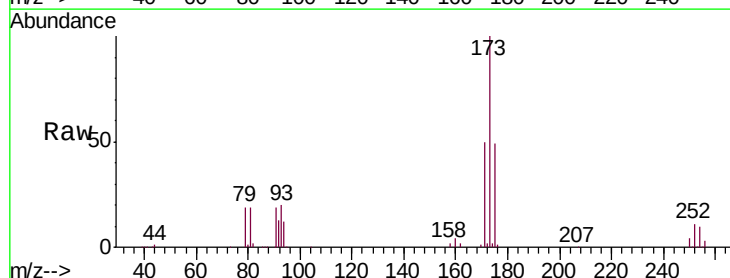
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VICV46

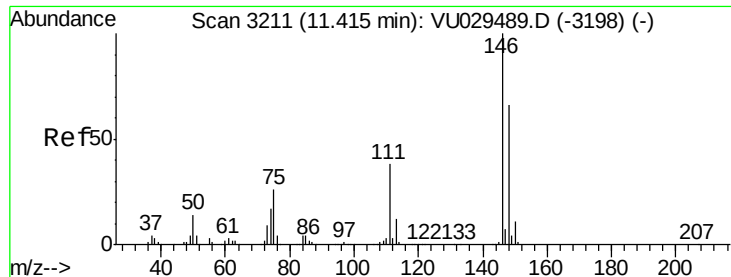
Tgt Ion: 75 Resp: 213039  
 Ion Ratio Lower Upper  
 75 100  
 77 32.2 25.7 38.5



#61  
 Bromoform  
 Concen: 48.970 ug/L  
 RT: 9.95 min Scan# 2757  
 Delta R.T. -0.00 min  
 Lab File: VU029492.D  
 Acq: 15 Feb 2019 12:25

Tgt Ion: 173 Resp: 161202  
 Ion Ratio Lower Upper  
 173 100  
 175 49.2 39.0 58.4  
 254 10.4 8.1 12.1





#62

1,3-Dichlorobenzene

Concen: 52.090 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. -0.00 min

Lab File: VU029492.D

Acq: 15 Feb 2019 12:25

Instrument :

MSVOA\_U

ClientSampleId :

VICV46

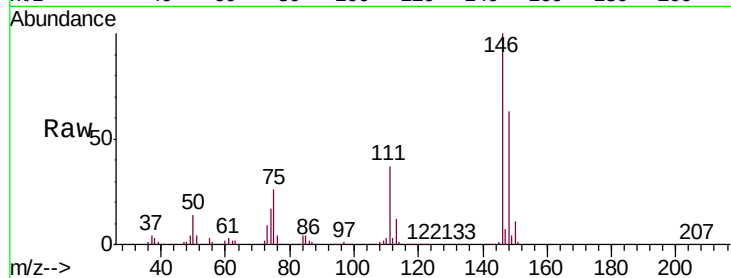
Tgt Ion:146 Resp: 405977

Ion Ratio Lower Upper

146 100

111 37.4 26.7 49.5

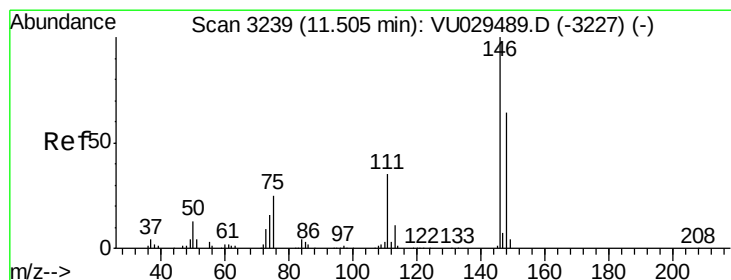
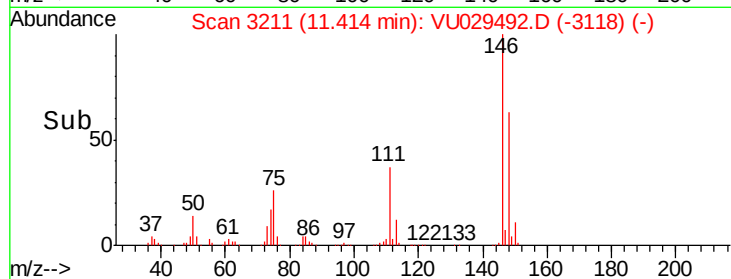
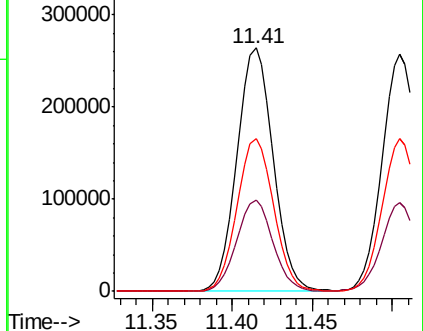
148 62.6 45.9 85.3



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 51.474 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. -0.00 min

Lab File: VU029492.D

Acq: 15 Feb 2019 12:25

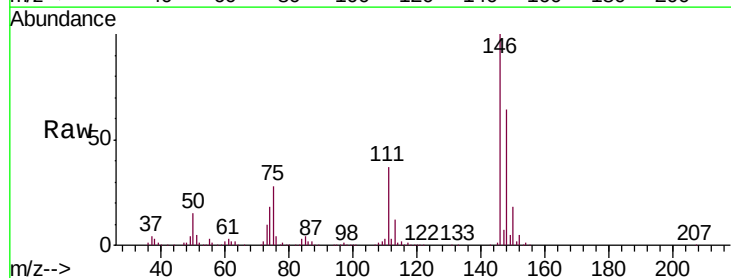
Tgt Ion:146 Resp: 403723

Ion Ratio Lower Upper

146 100

111 37.2 25.1 46.5

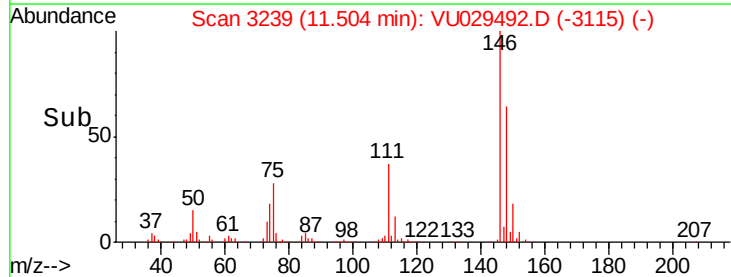
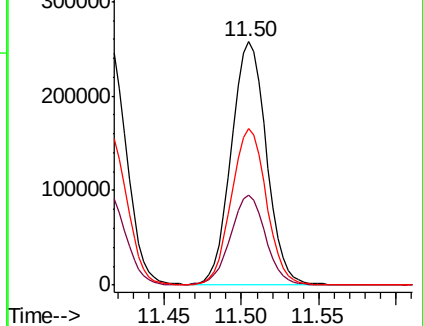
148 64.2 45.0 83.6

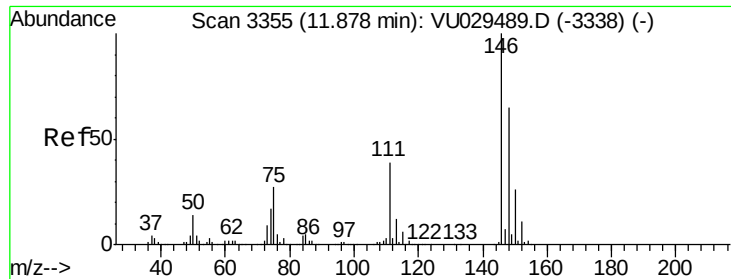


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

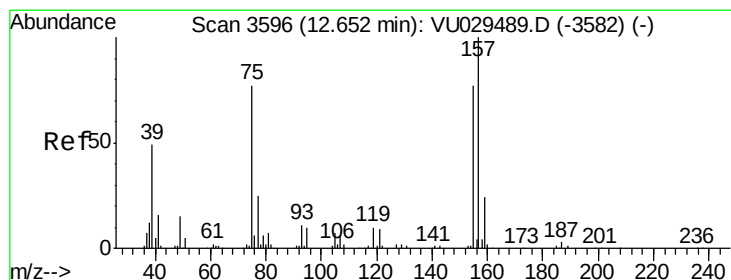
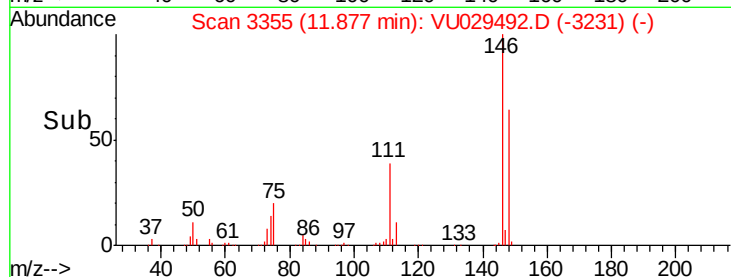
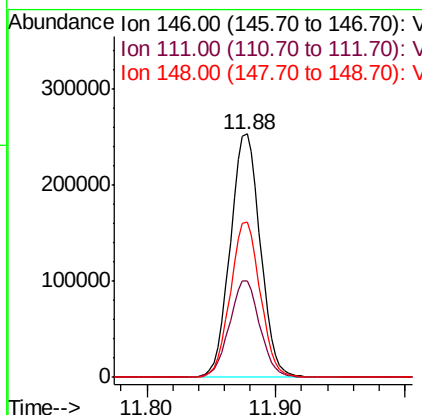
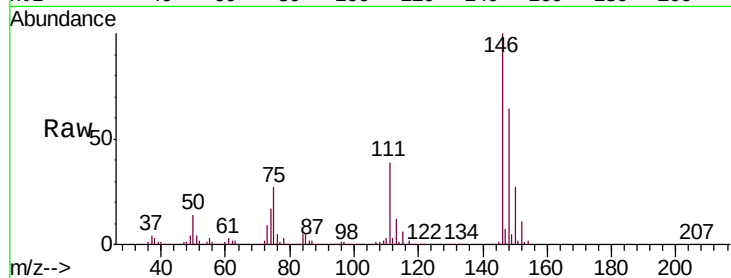




#65  
 1,2-Dichlorobenzene  
 Concen: 50.305 ug/L  
 RT: 11.88 min Scan# 3355  
 Delta R.T. -0.00 min  
 Lab File: VU029492.D  
 Acq: 15 Feb 2019 12:25

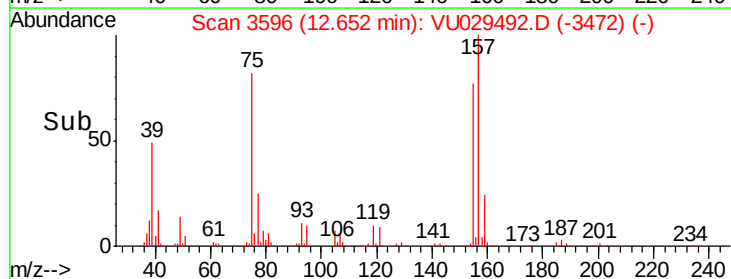
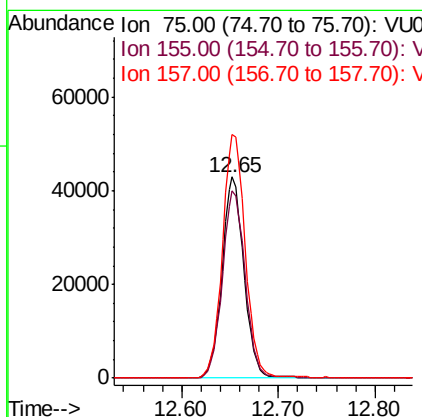
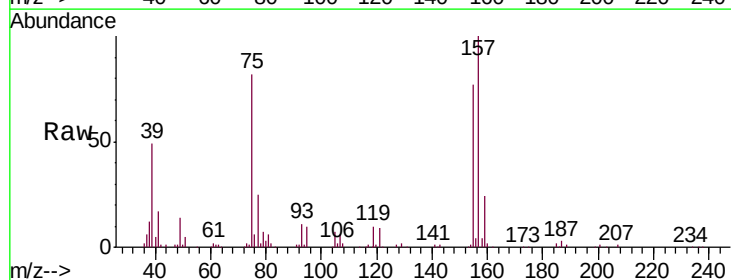
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VICV46

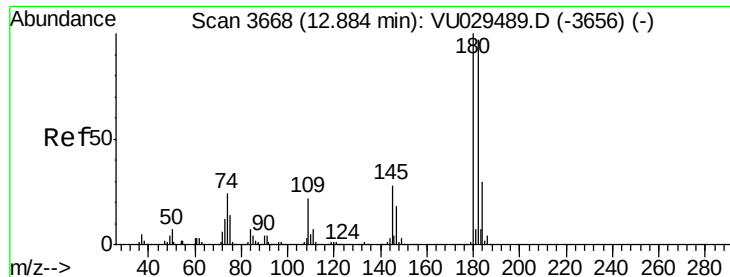
Tgt Ion: 146 Resp: 409263  
 Ion Ratio Lower Upper  
 146 100  
 111 39.4 31.2 46.8  
 148 63.7 51.6 77.4



#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 53.228 ug/L  
 RT: 12.65 min Scan# 3596  
 Delta R.T. -0.00 min  
 Lab File: VU029492.D  
 Acq: 15 Feb 2019 12:25

Tgt Ion: 75 Resp: 67387  
 Ion Ratio Lower Upper  
 75 100  
 155 93.2 79.5 119.3  
 157 121.2 103.4 155.0

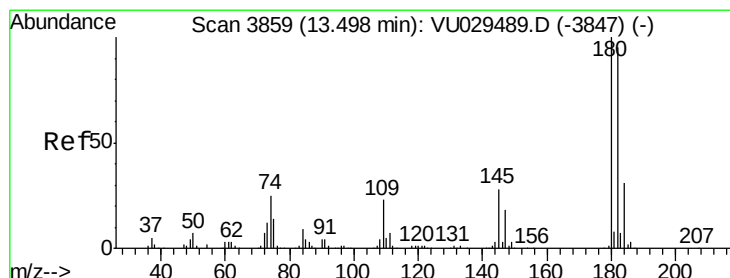
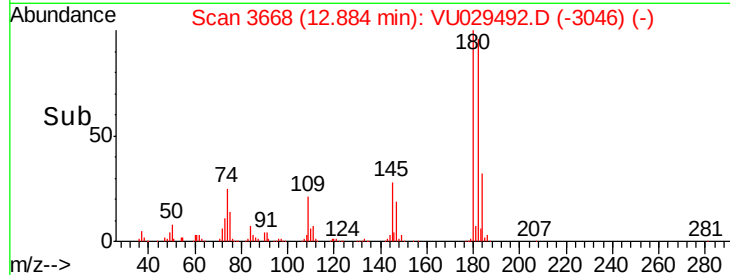
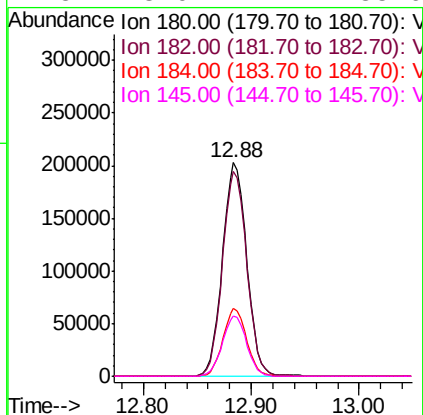
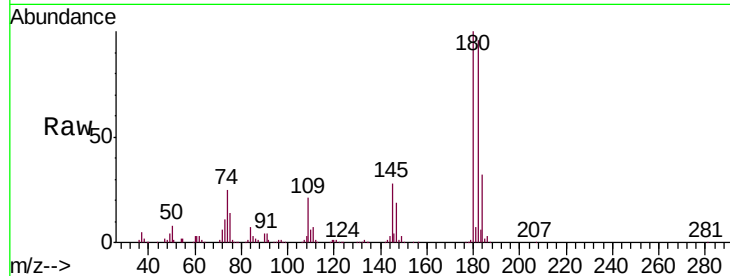




#67  
 1,3,5-Trichlorobenzene  
 Concen: 53.573 ug/L  
 RT: 12.88 min Scan# 3668  
 Delta R.T. -0.00 min  
 Lab File: VU029492.D  
 Acq: 15 Feb 2019 12:25

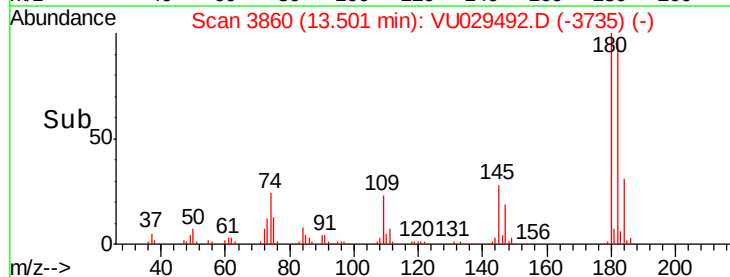
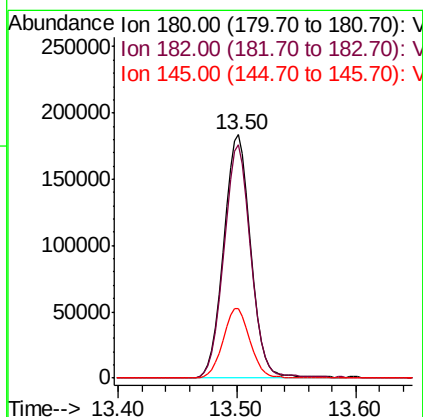
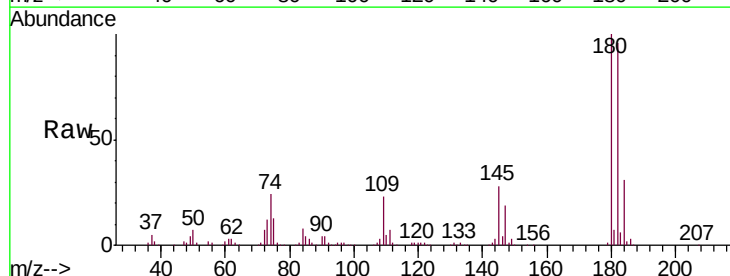
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VICV46

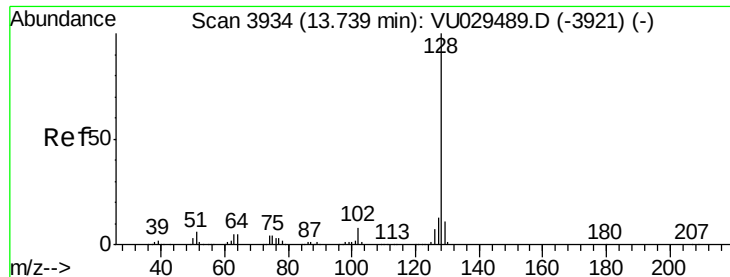
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 180   | Resp: | 318625 |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 95.7  | 77.9  | 116.9  |
| 184      | 30.6  | 24.5  | 36.7   |
| 145      | 28.0  | 22.4  | 33.6   |



#68  
 1,2,4-trichlorobenzene  
 Concen: 56.432 ug/L  
 RT: 13.50 min Scan# 3860  
 Delta R.T. 0.00 min  
 Lab File: VU029492.D  
 Acq: 15 Feb 2019 12:25

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 180   | Resp: | 290288 |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 95.4  | 76.2  | 114.2  |
| 145      | 28.3  | 22.7  | 34.1   |





#69

Naphthalene

Concen: 59.860 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. -0.00 min

Lab File: VU029492.D

Acq: 15 Feb 2019 12:25

Instrument :

MSVOA\_U

ClientSampleId :

VICV46

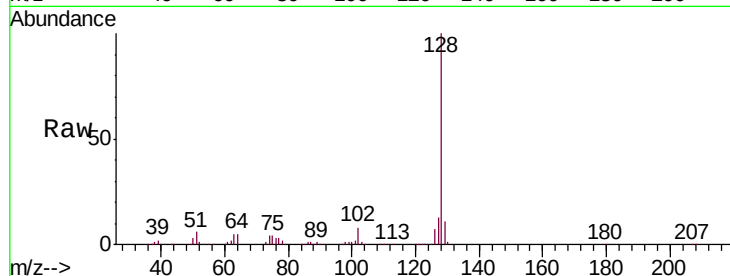
Tgt Ion:128 Resp: 946461

Ion Ratio Lower Upper

128 100

127 12.8 10.2 15.4

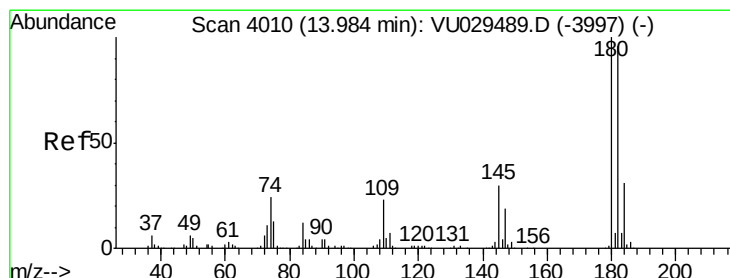
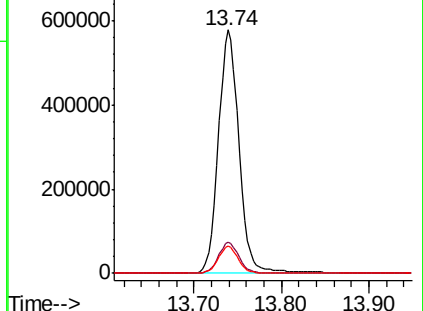
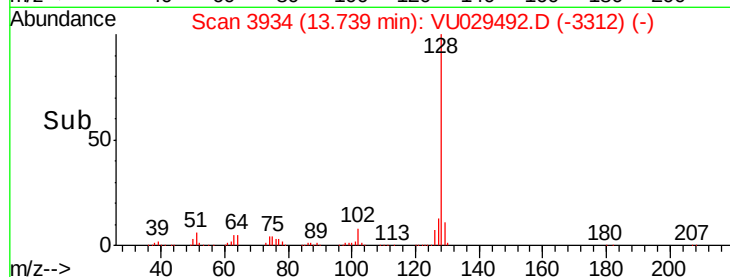
129 10.8 8.5 12.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 55.492 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. -0.00 min

Lab File: VU029492.D

Acq: 15 Feb 2019 12:25

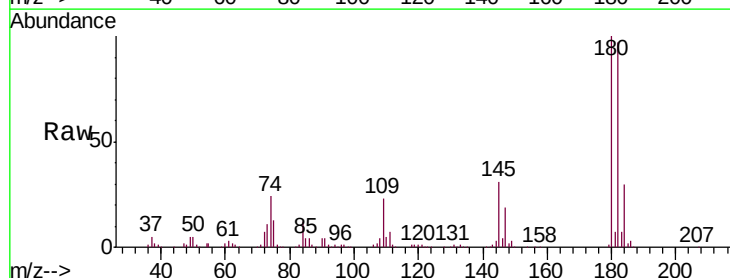
Tgt Ion:180 Resp: 303131

Ion Ratio Lower Upper

180 100

182 94.4 76.8 115.2

145 30.1 24.4 36.6



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

