

Data File : VU033951.D  
Acq On : 26 Aug 2019 12:42  
Operator : JC/SP  
Sample : VSTDICV005  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VICV05

Quant Time: Aug 27 02:01:10 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR082619WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Tue Aug 27 01:58:06 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.86  | 114  | 264511   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 268120   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.47 | 152  | 140466   | 5.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39   | 65    | 115084   | 4.92     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 98.40%  |
| 7) Chloroethane-d5             | 1.67   | 69    | 96684    | 4.94     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 98.80%  |
| 11) 1,1-Dichloroethene-d2      | 2.26   | 63    | 223896   | 4.95     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 99.00%  |
| 20) 2-Butanone-d5              | 4.16   | 46    | 292380   | 52.03    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 104.06% |
| 24) Chloroform-d               | 4.62   | 84    | 196161   | 4.90     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 98.00%  |
| 26) 1,2-Dichloroethane-d4      | 5.29   | 65    | 106640   | 4.95     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 99.00%  |
| 32) Benzene-d6                 | 5.31   | 84    | 394003   | 5.22     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 104.40% |
| 36) 1,2-Dichloropropane-d6     | 6.31   | 67    | 123355   | 5.13     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 102.60% |
| 41) Toluene-d8                 | 7.54   | 98    | 352793   | 5.37     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 107.40% |
| 43) trans-1,3-Dichloropropene- | 7.83   | 79    | 48742    | 5.40     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 108.00% |
| 46) 2-Hexanone-d5              | 8.30   | 63    | 214327   | 57.77    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 115.54% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.41  | 84    | 104134   | 5.21     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 104.20% |
| 64) 1,2-Dichlorobenzene-d4     | 11.84  | 152   | 133168   | 5.13     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 102.60% |

#### Target Compounds

|                                |      |     |        |        | Qvalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.20 | 85  | 158071 | 5.032  | ug/L 99  |
| 3) Chloromethane               | 1.32 | 50  | 158294 | 5.114  | ug/L 99  |
| 5) Vinyl chloride              | 1.40 | 62  | 164841 | 5.071  | ug/L 99  |
| 6) Bromomethane                | 1.62 | 94  | 79118  | 5.293  | ug/L 98  |
| 8) Chloroethane                | 1.69 | 64  | 95462  | 4.682  | ug/L 99  |
| 9) Trichlorofluoromethane      | 1.87 | 101 | 189380 | 5.127  | ug/L 98  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.27 | 101 | 105139 | 5.001  | ug/L 99  |
| 12) 1,1-Dichloroethene         | 2.27 | 96  | 101873 | 4.995  | ug/L 88  |
| 13) Acetone                    | 2.31 | 43  | 227902 | 51.531 | ug/L 99  |
| 14) Carbon disulfide           | 2.46 | 76  | 358847 | 4.961  | ug/L 100 |
| 15) Methyl Acetate             | 2.60 | 43  | 61465  | 5.062  | ug/L 99  |
| 16) Methylene chloride         | 2.68 | 84  | 114274 | 4.742  | ug/L 98  |
| 17) Methyl tert-butyl Ether    | 2.98 | 73  | 278069 | 5.201  | ug/L 99  |
| 18) trans-1,2-Dichloroethene   | 2.96 | 96  | 110028 | 4.980  | ug/L 97  |
| 19) 1,1-Dichloroethane         | 3.42 | 63  | 214581 | 4.980  | ug/L 99  |
| 21) 2-Butanone                 | 4.25 | 43  | 349260 | 54.985 | ug/L 99  |
| 22) cis-1,2-Dichloroethene     | 4.20 | 96  | 117151 | 5.152  | ug/L 95  |

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Instrument :  
MSVOA\_U  
ClientSampleId :  
VICV05

Quant Time: Aug 27 02:01:10 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR082619WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Tue Aug 27 01:58:06 2019  
Response via : Initial Calibration

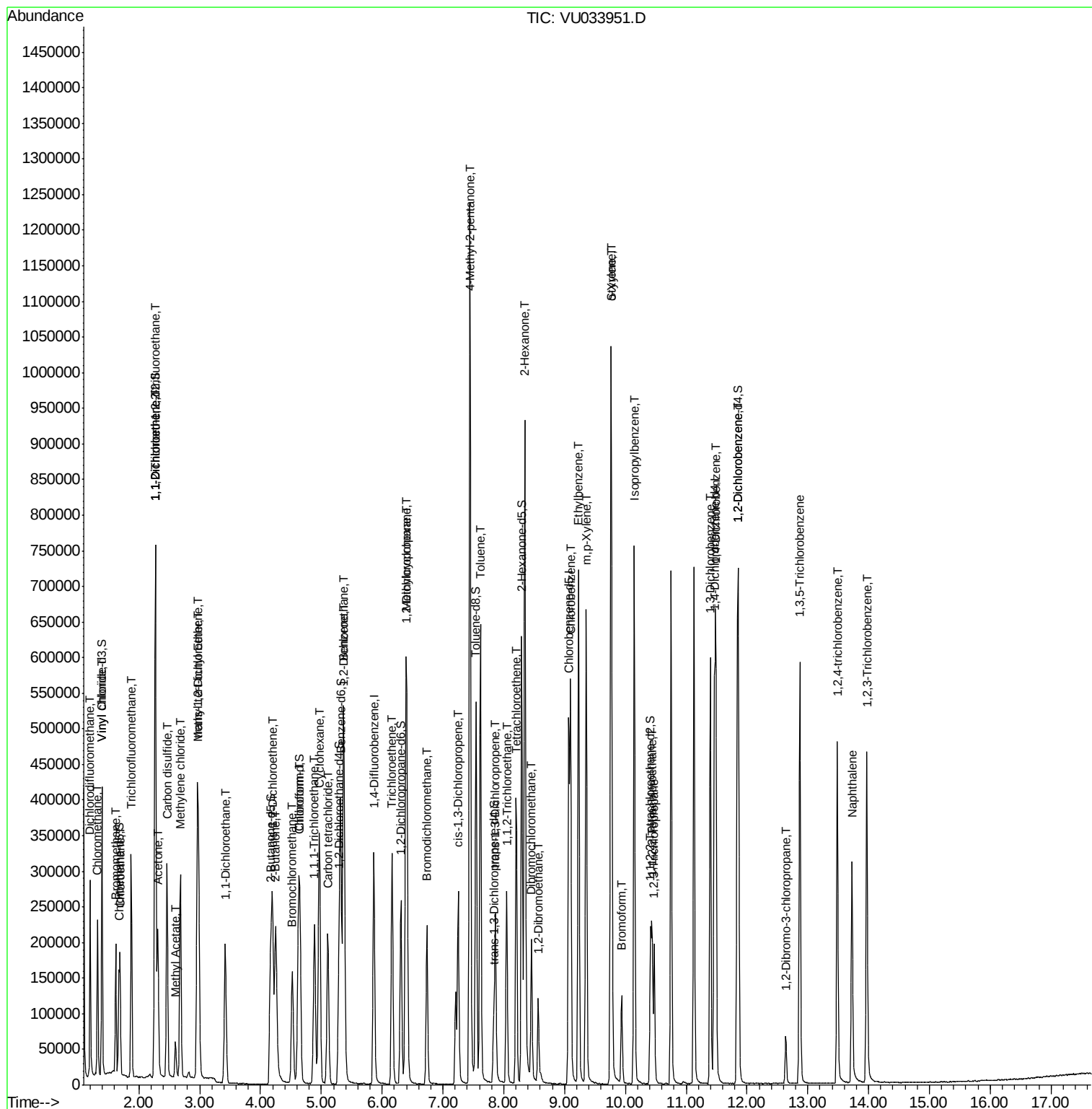
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane         | 4.52  | 128  | 53291    | 5.138  | ug/L  | 98       |
| 25) Chloroform                 | 4.65  | 83   | 211010   | 4.724  | ug/L  | 100      |
| 27) 1,2-Dichloroethane         | 5.38  | 62   | 138004   | 5.162  | ug/L  | 100      |
| 29) 1,1,1-Trichloroethane      | 4.89  | 97   | 172007   | 5.171  | ug/L  | 99       |
| 30) Cyclohexane                | 4.97  | 56   | 180893   | 5.395  | ug/L  | 100      |
| 31) Carbon tetrachloride       | 5.11  | 117  | 151725   | 5.137  | ug/L  | 99       |
| 33) Benzene                    | 5.36  | 78   | 451352   | 5.299  | ug/L  | 100      |
| 34) Trichloroethene            | 6.16  | 95   | 112768   | 5.137  | ug/L  | 97       |
| 35) Methylcyclohexane          | 6.39  | 83   | 180020   | 5.410  | ug/L  | 97       |
| 37) 1,2-Dichloropropane        | 6.41  | 63   | 119860   | 5.138  | ug/L  | 100      |
| 38) Bromodichloromethane       | 6.74  | 83   | 145797   | 5.102  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene    | 7.25  | 75   | 164187   | 5.398  | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone       | 7.44  | 43   | 818409   | 57.334 | ug/L  | 99       |
| 42) Toluene                    | 7.62  | 91   | 464584   | 5.431  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene  | 7.86  | 75   | 135235   | 5.379  | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane      | 8.05  | 97   | 82702    | 5.245  | ug/L  | 98       |
| 47) Tetrachloroethene          | 8.21  | 164  | 89077    | 5.155  | ug/L  | 99       |
| 48) 2-Hexanone                 | 8.35  | 43   | 608799   | 60.896 | ug/L  | 99       |
| 49) Dibromochloromethane       | 8.46  | 129  | 98588    | 5.301  | ug/L  | 95       |
| 50) 1,2-Dibromoethane          | 8.57  | 107  | 78994    | 5.238  | ug/L  | 100      |
| 51) Chlorobenzene              | 9.10  | 112  | 292513   | 5.224  | ug/L  | 99       |
| 52) Ethylbenzene               | 9.23  | 91   | 484244   | 5.417  | ug/L  | 98       |
| 53) m,p-Xylene                 | 9.36  | 106  | 186304   | 5.571  | ug/L  | 96       |
| 54) o-Xylene                   | 9.76  | 106  | 176341   | 5.585  | ug/L  | 100      |
| 55) Styrene                    | 9.77  | 104  | 310772   | 5.716  | ug/L  | 99       |
| 56) Isopropylbenzene           | 10.15 | 105  | 467339   | 5.598  | ug/L  | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.44 | 83   | 108990   | 5.235  | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane     | 10.48 | 75   | 81088    | 5.422  | ug/L  | 97       |
| 61) Bromoform                  | 9.94  | 173  | 55423    | 5.149  | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene        | 11.40 | 146  | 241039   | 5.453  | ug/L  | 98       |
| 63) 1,4-Dichlorobenzene        | 11.49 | 146  | 244328   | 5.329  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene        | 11.86 | 146  | 229007   | 5.389  | ug/L  | 100      |
| 66) 1,2-Dibromo-3-chloropropan | 12.64 | 75   | 18557    | 5.609  | ug/L  | 95       |
| 67) 1,3,5-Trichlorobenzene     | 12.87 | 180  | 189801   | 5.517  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene     | 13.49 | 180  | 152613   | 5.948  | ug/L  | 99       |
| 69) Naphthalene                | 13.73 | 128  | 267969   | 6.721  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene     | 13.97 | 180  | 156956   | 6.315  | ug/L  | 96       |

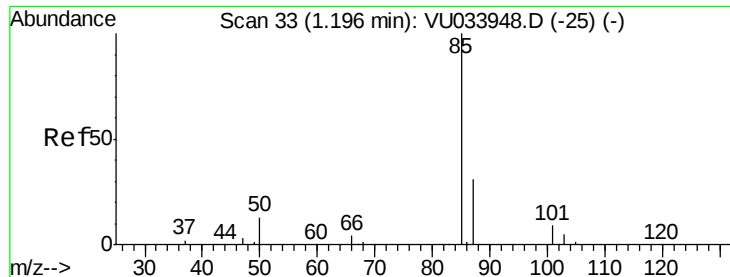
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : VU033951.D  
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Instrument :  
MSVOA\_U  
ClientSampled :  
VICV05

Quant Time: Aug 27 02:01:10 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR082619WMA.M  
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#2

Dichlorodifluoromethane

Concen: 5.032 ug/L

RT: 1.20 min Scan# 34

Delta R.T. 0.00 min

Lab File: VU033951.D

Acq: 26 Aug 2019 12:42

Instrument :

MSVOA\_U

ClientSampleId :

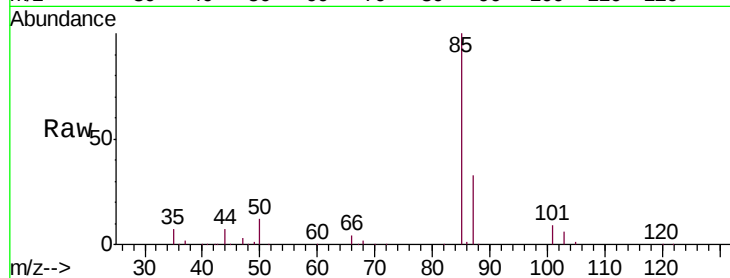
VICV05

Tgt Ion: 85 Resp: 158071

Ion Ratio Lower Upper

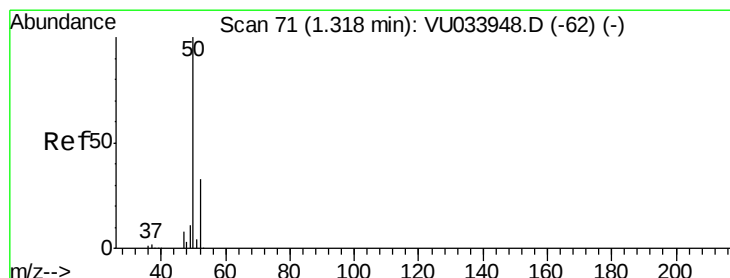
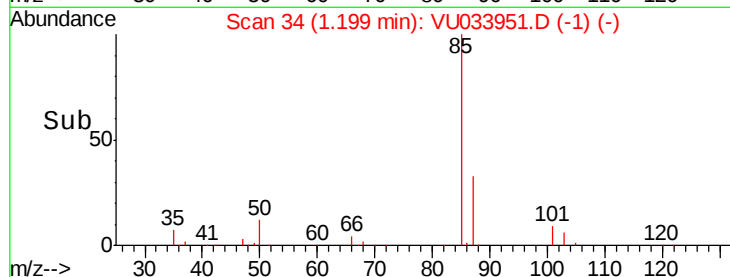
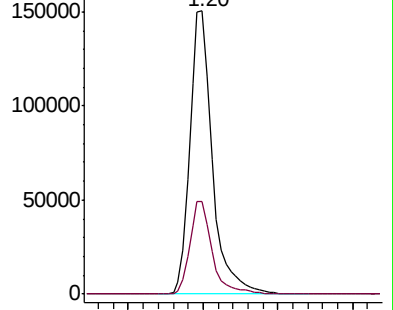
85 100

87 32.3 25.4 38.0



Abundance Ion 85.00 (84.70 to 85.70): VU033948.D (-25) (-)

Ion 87.00 (86.70 to 87.70): VU033948.D (-25) (-)



#3

Chloromethane

Concen: 5.114 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU033951.D

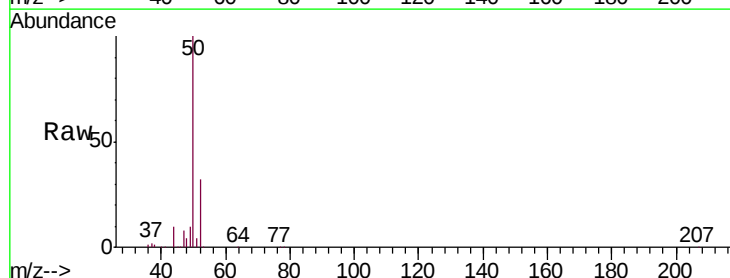
Acq: 26 Aug 2019 12:42

Tgt Ion: 50 Resp: 158294

Ion Ratio Lower Upper

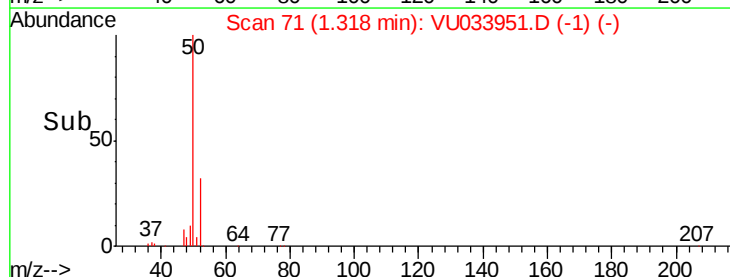
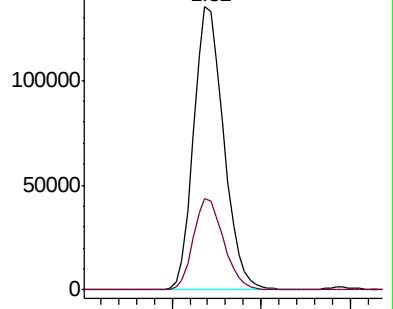
50 100

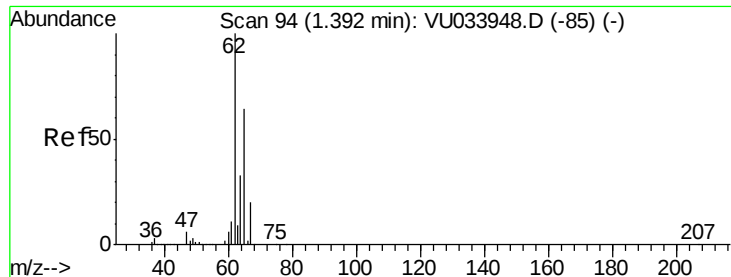
52 32.1 23.0 42.8



Abundance Ion 50.05 (49.75 to 50.75): VU033948.D (-62) (-)

Ion 52.05 (51.75 to 52.75): VU033948.D (-62) (-)





#5

Vinyl chloride

Concen: 5.071 ug/L

RT: 1.40 min Scan# 95

Delta R.T. 0.00 min

Lab File: VU033951.D

Acq: 26 Aug 2019 12:42

Instrument :

MSVOA\_U

ClientSampled :

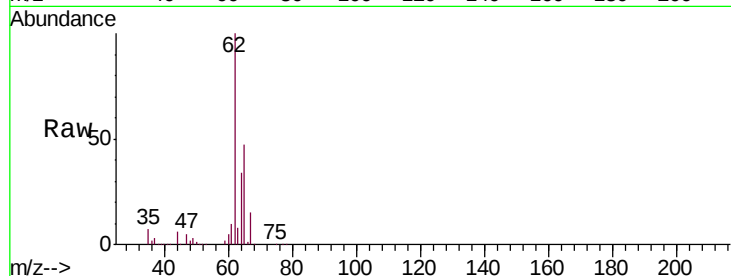
VICV05

Tgt Ion: 62 Resp: 164841

Ion Ratio Lower Upper

62 100

64 33.9 23.4 43.4



Abundance Ion 62.00 (61.70 to 62.70): VU033948.D (-85) (-)

Ion 64.10 (63.80 to 64.80): VU033948.D (-85) (-)

1.40

150000

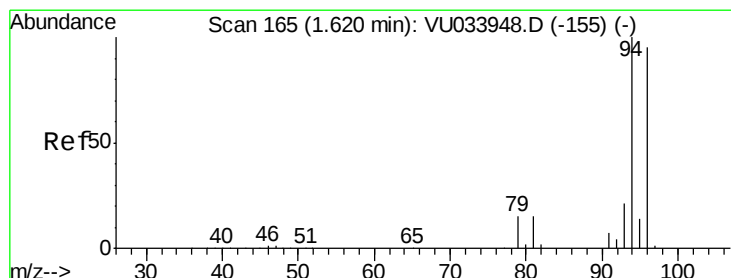
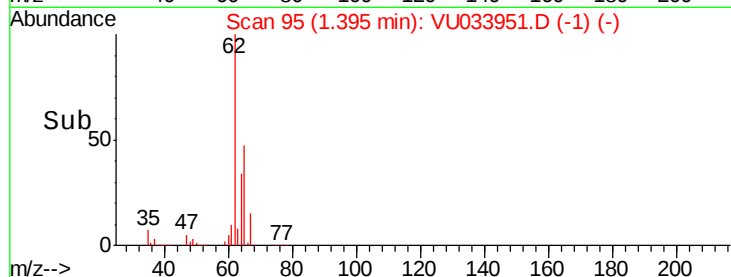
100000

50000

0

1.35 1.40 1.45 1.50

Time-->



#6

Bromomethane

Concen: 5.293 ug/L

RT: 1.62 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU033951.D

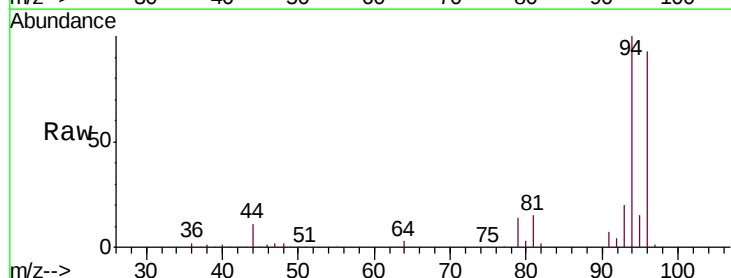
Acq: 26 Aug 2019 12:42

Tgt Ion: 94 Resp: 79118

Ion Ratio Lower Upper

94 100

96 92.5 66.1 122.8



Abundance Ion 94.00 (93.70 to 94.70): VU033948.D (-155) (-)

Ion 96.00 (95.70 to 96.70): VU033948.D (-155) (-)

1.62

60000

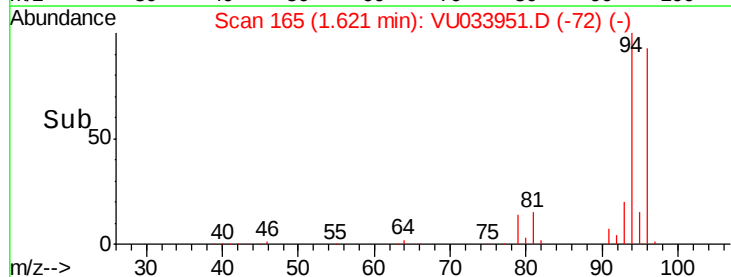
40000

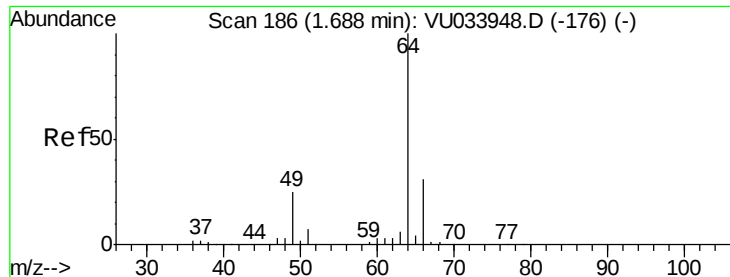
20000

0

1.55 1.60 1.65 1.70

Time-->





#8

Chloroethane

Concen: 4.682 ug/L

RT: 1.69 min Scan# 186

Delta R.T. 0.00 min

Lab File: VU033951.D

Acq: 26 Aug 2019 12:42

Instrument :

MSVOA\_U

ClientSampleId :

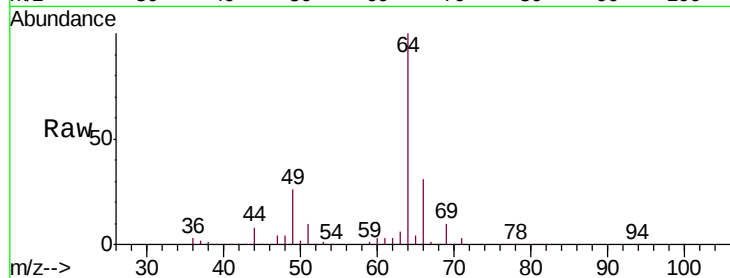
VICV05

Tgt Ion: 64 Resp: 95462

Ion Ratio Lower Upper

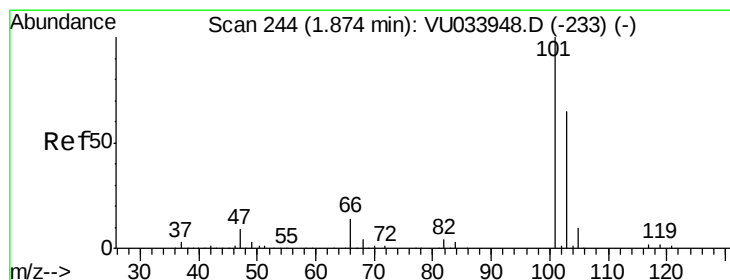
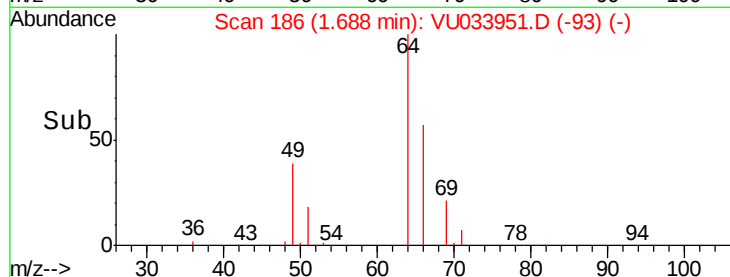
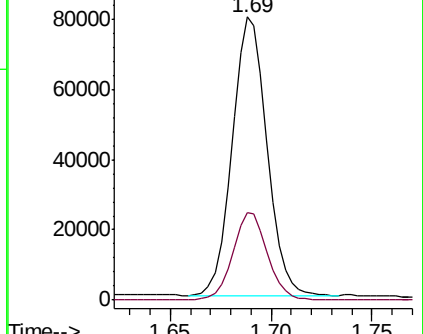
64 100

66 31.1 21.4 39.8



Abundance Ion 64.10 (63.80 to 64.80): VU033948.D (-176) (-)

Ion 66.05 (65.75 to 66.75): VU033948.D (-176) (-)



#9

Trichlorofluoromethane

Concen: 5.127 ug/L

RT: 1.87 min Scan# 244

Delta R.T. 0.00 min

Lab File: VU033951.D

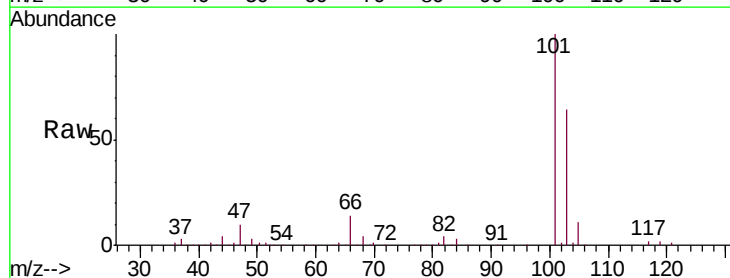
Acq: 26 Aug 2019 12:42

Tgt Ion: 101 Resp: 189380

Ion Ratio Lower Upper

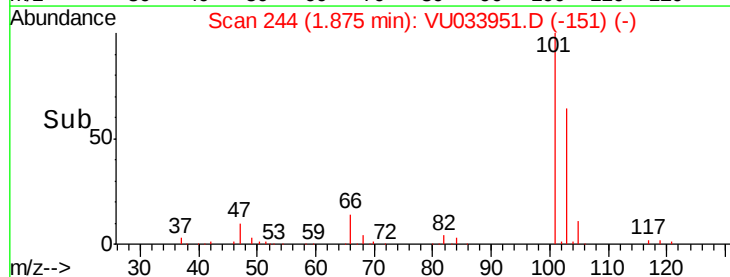
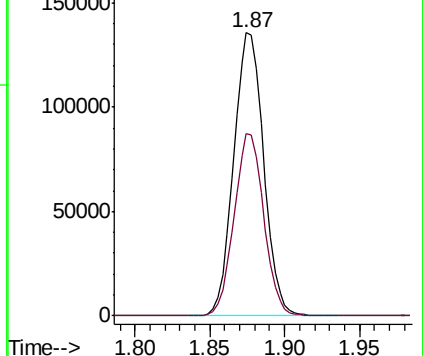
101 100

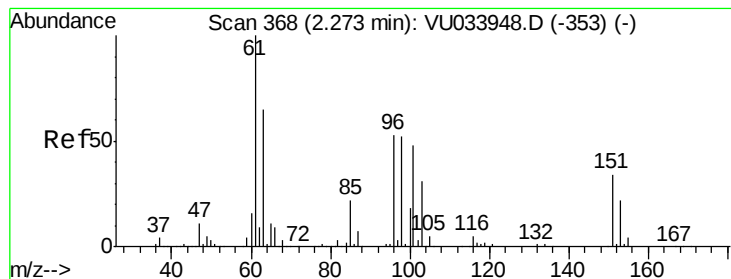
103 63.6 52.1 78.1



Abundance Ion 101.00 (100.70 to 101.70): VU033948.D (-233) (-)

Ion 103.00 (102.70 to 103.70): VU033948.D (-233) (-)





#10

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

Concen: 5.001 ug/L

RT: 2.27 min Scan# 368

Delta R.T. 0.00 min

Lab File: VU033951.D

Acq: 26 Aug 2019 12:42

Instrument :

MSVOA\_U

ClientSampleId :

VICV05

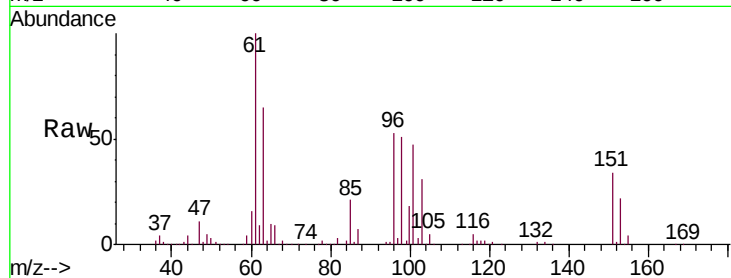
Tgt Ion: 101 Resp: 105139

Ion Ratio Lower Upper

101 100

85 44.7 36.2 54.2

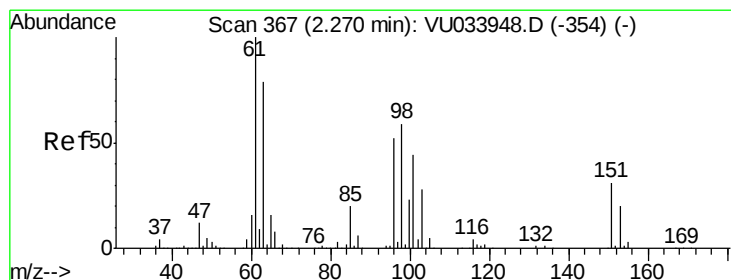
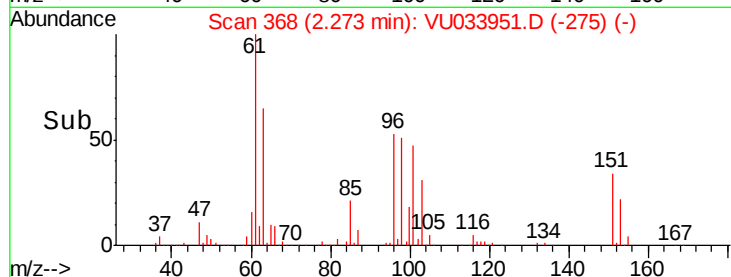
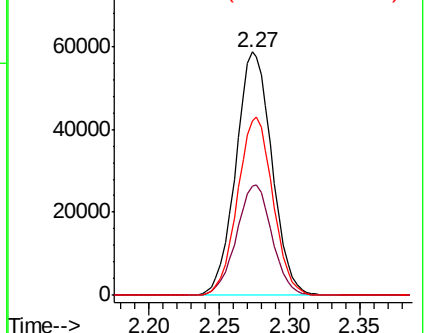
151 71.7 56.8 85.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 4.995 ug/L

RT: 2.27 min Scan# 368

Delta R.T. 0.00 min

Lab File: VU033951.D

Acq: 26 Aug 2019 12:42

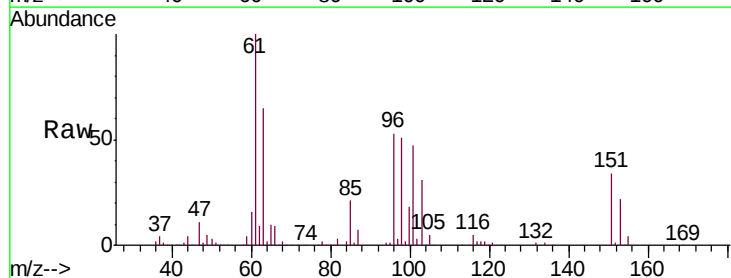
Tgt Ion: 96 Resp: 101873

Ion Ratio Lower Upper

96 100

61 189.3 135.6 251.8

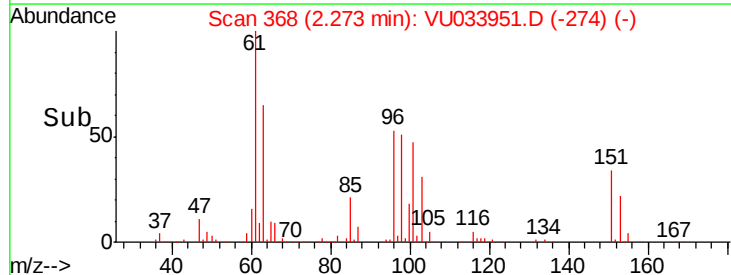
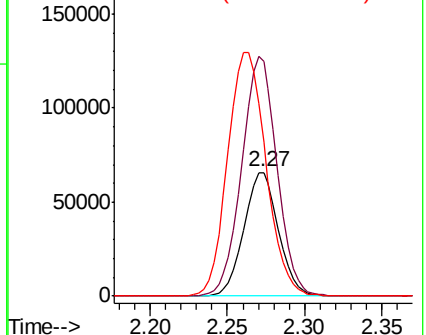
63 123.9 108.0 200.6

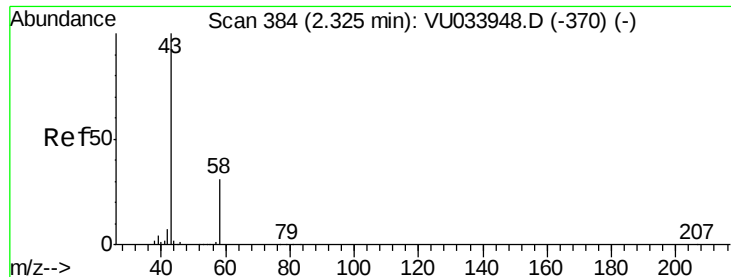


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 51.531 ug/L

RT: 2.31 min Scan# 380

Delta R.T. -0.01 min

Lab File: VU033951.D

Acq: 26 Aug 2019 12:42

Instrument :

MSVOA\_U

ClientSampleId :

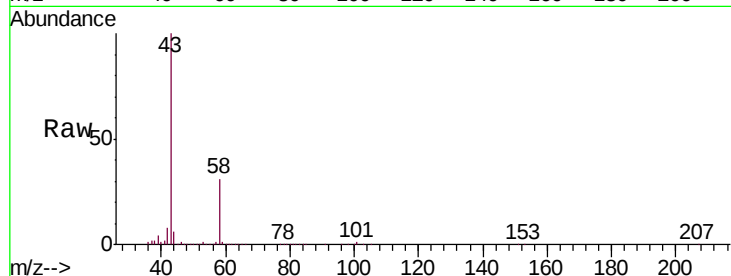
VICV05

Tgt Ion: 43 Resp: 227902

Ion Ratio Lower Upper

43 100

58 30.7 0.0 62.6



Abundance Ion 43.05 (42.75 to 43.75): VU033948.D (-370) (-)

Ion 58.05 (57.75 to 58.75): VU033948.D (-370) (-)

2.31

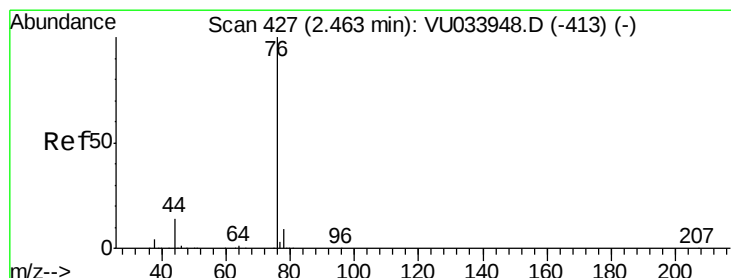
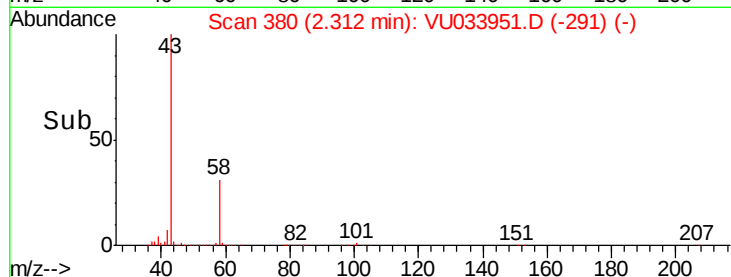
150000

100000

50000

0

Time-->



#14

Carbon disulfide

Concen: 4.961 ug/L

RT: 2.46 min Scan# 427

Delta R.T. 0.00 min

Lab File: VU033951.D

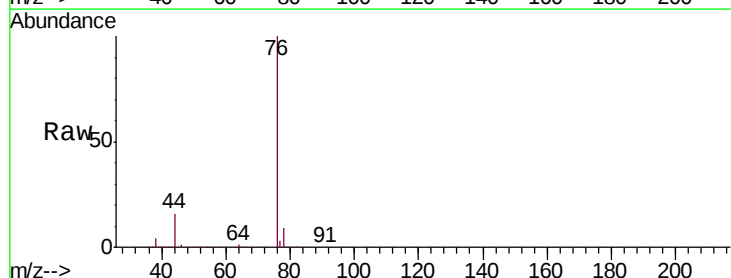
Acq: 26 Aug 2019 12:42

Tgt Ion: 76 Resp: 358847

Ion Ratio Lower Upper

76 100

78 9.1 7.3 10.9



Abundance Ion 76.05 (75.75 to 76.75): VU033948.D (-413) (-)

Ion 78.00 (77.70 to 78.70): VU033948.D (-413) (-)

2.46

250000

200000

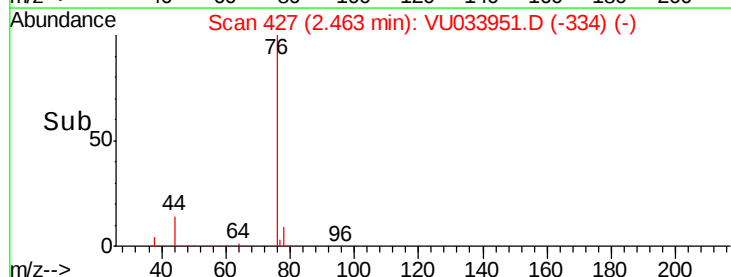
150000

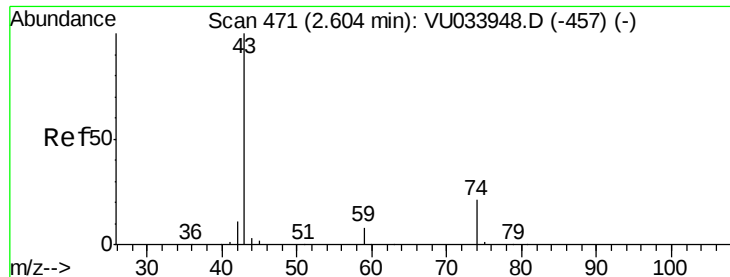
100000

50000

0

Time-->

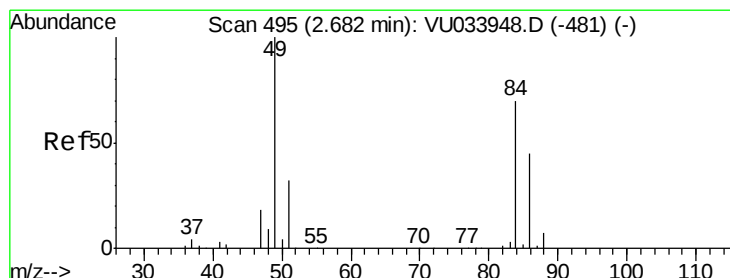
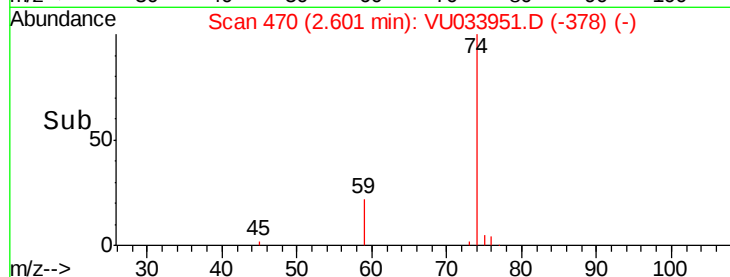
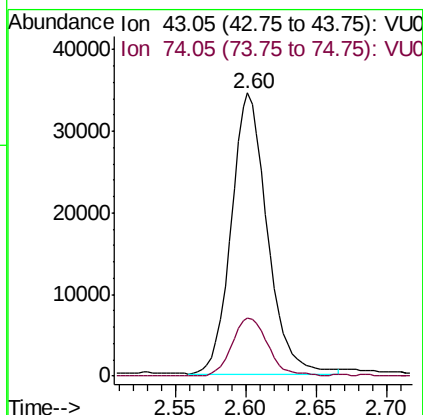
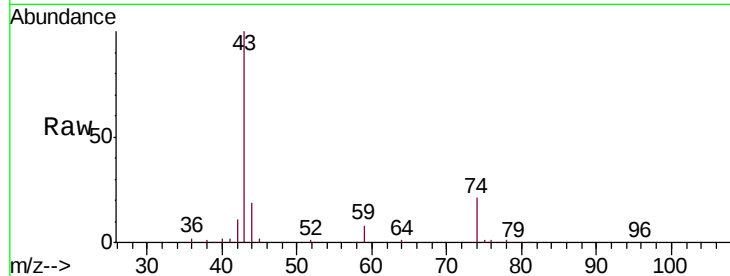




#15  
Methyl Acetate  
Concen: 5.062 ug/L  
RT: 2.60 min Scan# 470  
Delta R.T. -0.00 min  
Lab File: VU033951.D  
Acq: 26 Aug 2019 12:42

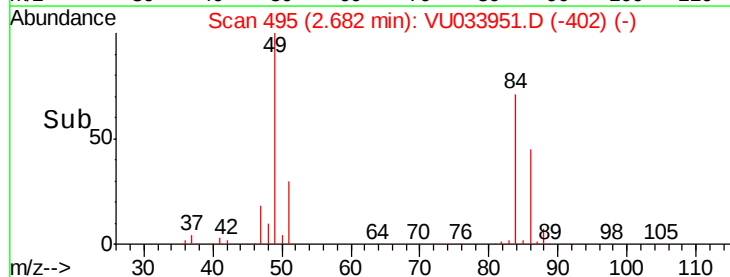
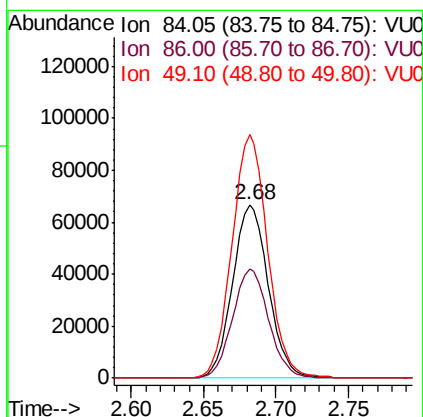
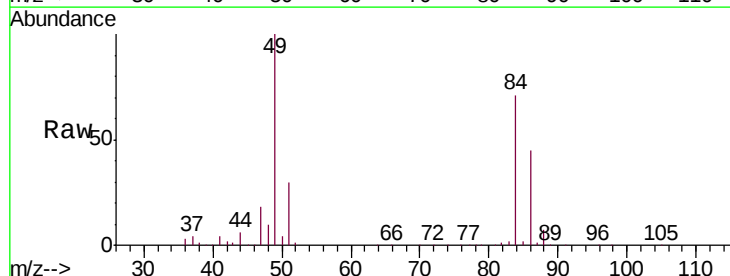
Instrument :  
MSVOA\_U  
ClientSampleId :  
VICV05

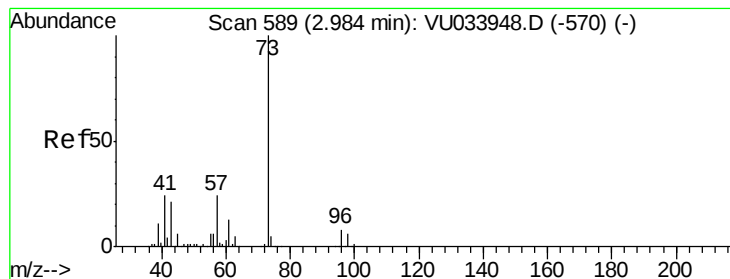
Tgt Ion: 43 Resp: 61465  
Ion Ratio Lower Upper  
43 100  
74 20.8 16.3 24.5



#16  
Methylene chloride  
Concen: 4.742 ug/L  
RT: 2.68 min Scan# 495  
Delta R.T. 0.00 min  
Lab File: VU033951.D  
Acq: 26 Aug 2019 12:42

Tgt Ion: 84 Resp: 114274  
Ion Ratio Lower Upper  
84 100  
86 62.7 44.7 83.1  
49 140.6 100.1 185.9





#17

Methyl tert-butyl Ether

Concen: 5.201 ug/L

RT: 2.98 min Scan# 588

Delta R.T. -0.00 min

Lab File: VU033951.D

Acq: 26 Aug 2019 12:42

Instrument :

MSVOA\_U

ClientSampleId :

VICV05

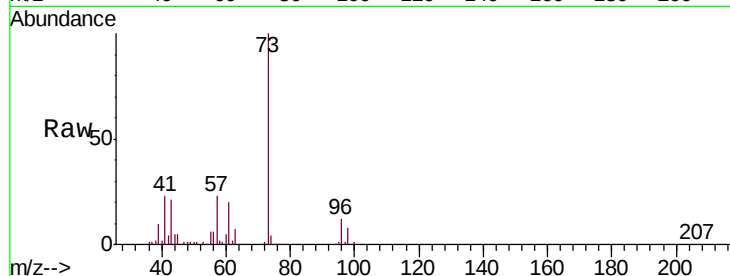
Tgt Ion: 73 Resp: 278069

Ion Ratio Lower Upper

73 100

43 21.1 16.6 24.8

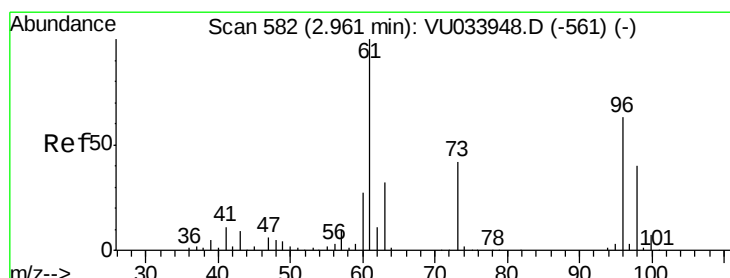
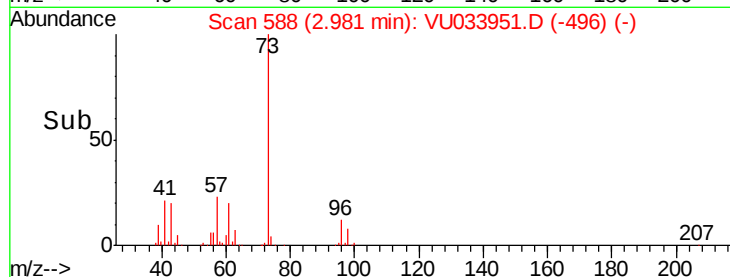
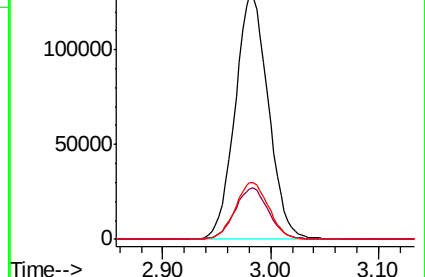
57 23.7 19.1 28.7



Abundance Ion 73.10 (72.80 to 73.80): VU033948.D (-570) (-)

Ion 43.05 (42.75 to 43.75): VU033948.D (-570) (-)

Ion 57.10 (56.80 to 57.80): VU033948.D (-570) (-)



#18

trans-1,2-Dichloroethene

Concen: 4.980 ug/L

RT: 2.96 min Scan# 582

Delta R.T. 0.00 min

Lab File: VU033951.D

Acq: 26 Aug 2019 12:42

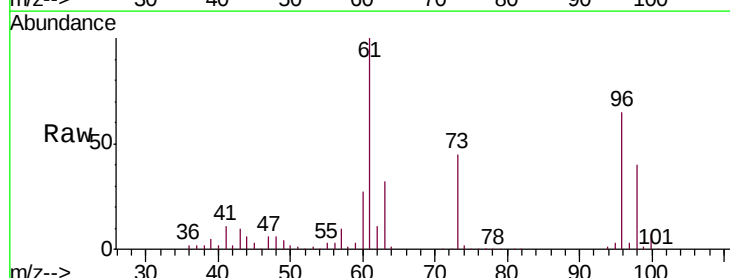
Tgt Ion: 96 Resp: 110028

Ion Ratio Lower Upper

96 100

61 154.1 110.3 204.9

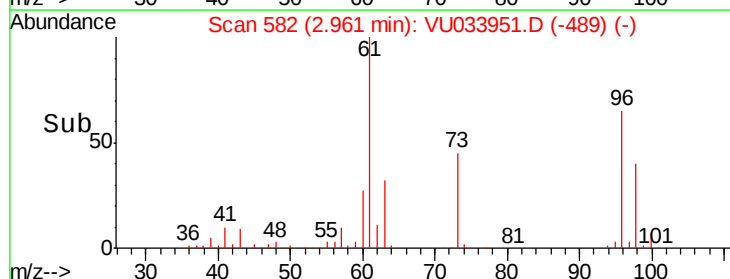
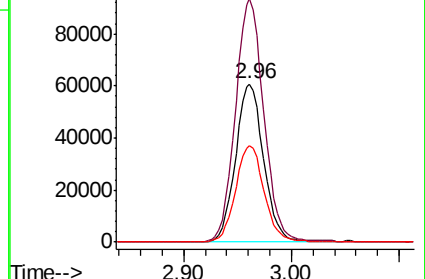
98 61.4 44.2 82.0

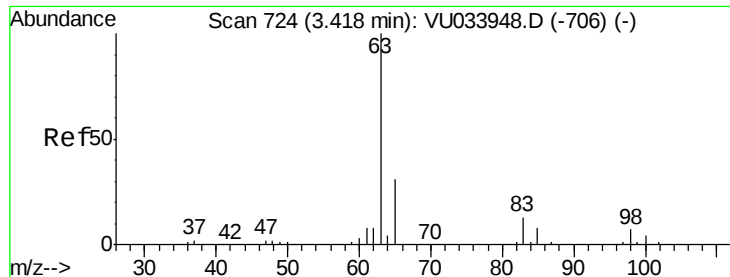


Abundance Ion 96.00 (95.70 to 96.70): VU033948.D (-561) (-)

Ion 61.05 (60.75 to 61.75): VU033948.D (-561) (-)

Ion 97.95 (97.65 to 98.65): VU033948.D (-561) (-)

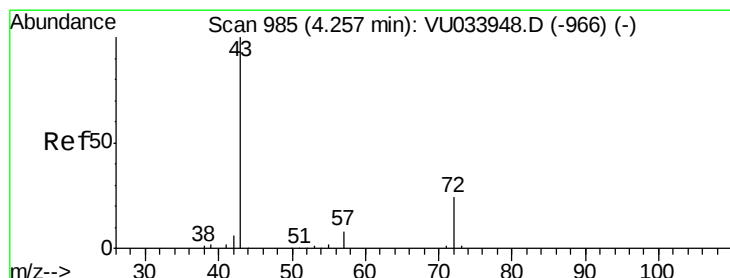
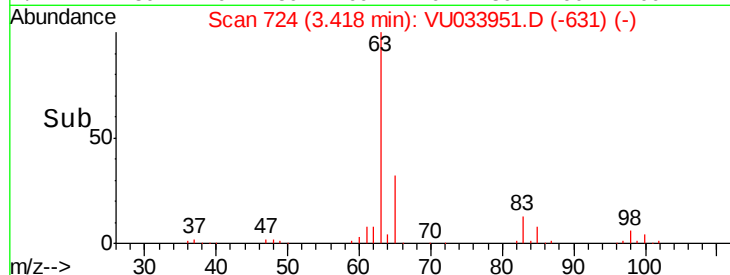
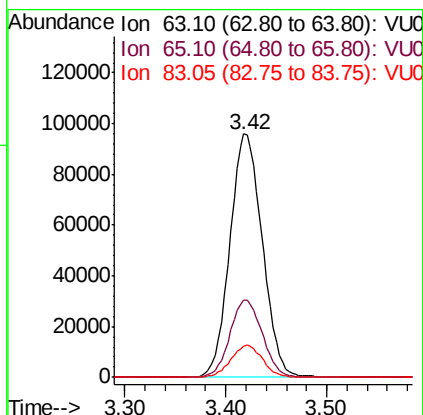
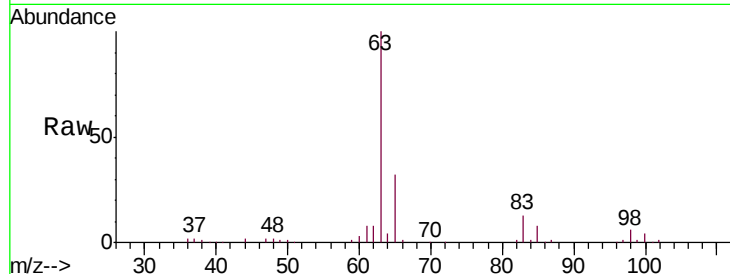




#19  
 1,1-Dichloroethane  
 Concen: 4.980 ug/L  
 RT: 3.42 min Scan# 724  
 Delta R.T. 0.00 min  
 Lab File: VU033951.D  
 Acq: 26 Aug 2019 12:42

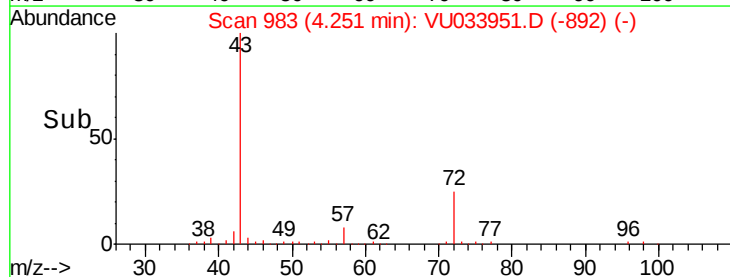
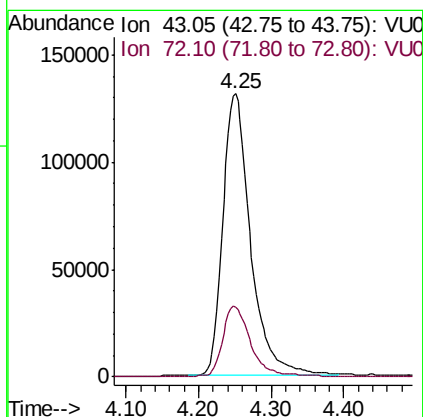
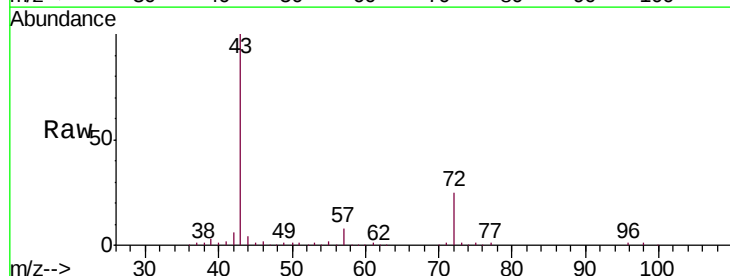
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VICV05

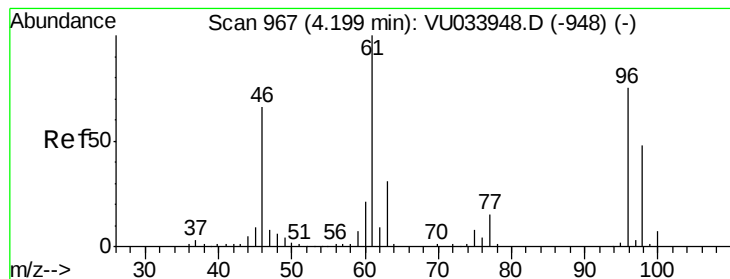
Tgt Ion: 63 Resp: 214581  
 Ion Ratio Lower Upper  
 63 100  
 65 31.8 21.7 40.3  
 83 12.9 8.9 16.5



#21  
 2-Butanone  
 Concen: 54.985 ug/L  
 RT: 4.25 min Scan# 983  
 Delta R.T. -0.01 min  
 Lab File: VU033951.D  
 Acq: 26 Aug 2019 12:42

Tgt Ion: 43 Resp: 349260  
 Ion Ratio Lower Upper  
 43 100  
 72 25.1 12.3 36.8



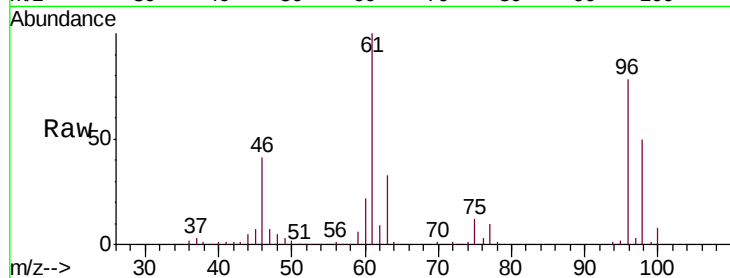


#22

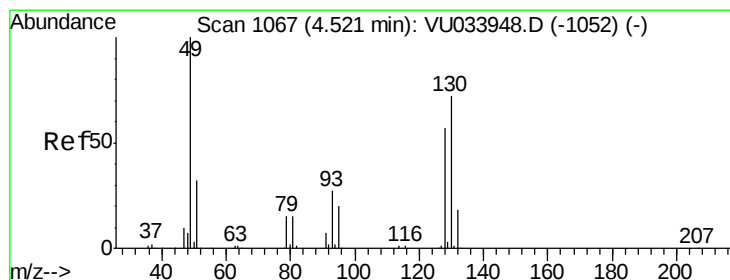
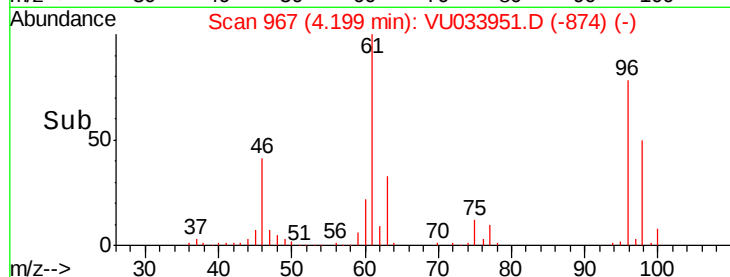
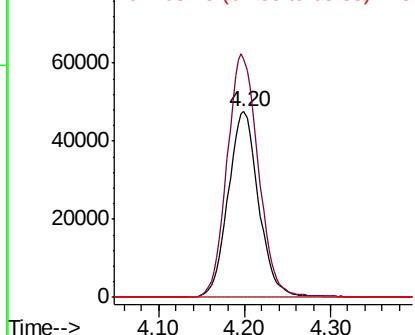
cis-1,2-Dichloroethene  
 Concen: 5.152 ug/L  
 RT: 4.20 min Scan# 967  
 Delta R.T. 0.00 min  
 Lab File: VU033951.D  
 Acq: 26 Aug 2019 12:42

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VICV05

Tgt Ion: 96 Resp: 117151  
 Ion Ratio Lower Upper  
 96 100  
 61 128.5 93.8 174.2  
 68 0.0 0.0 0.0



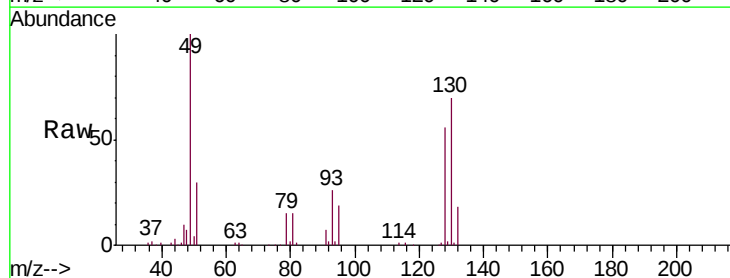
Abundance Ion 96.00 (95.70 to 96.70): VU0  
 Ion 61.05 (60.75 to 61.75): VU0  
 Ion 68.15 (67.85 to 68.85): VU0



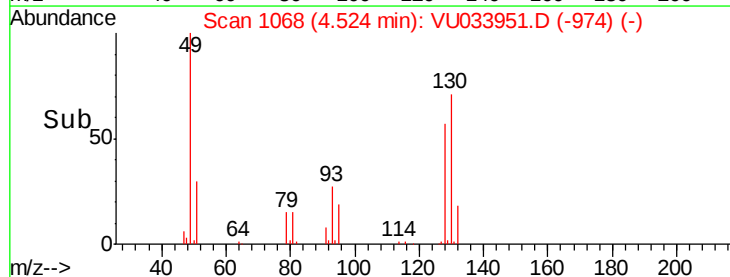
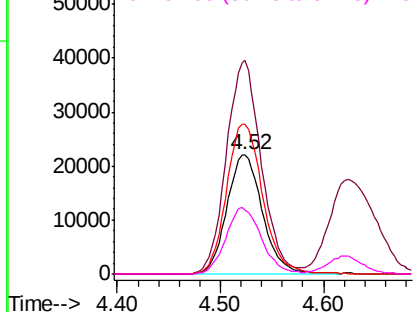
#23

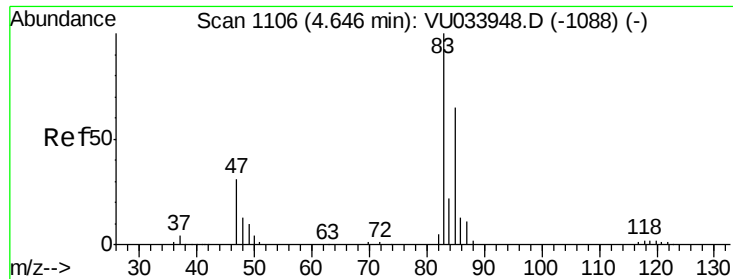
Bromochloromethane  
 Concen: 5.138 ug/L  
 RT: 4.52 min Scan# 1068  
 Delta R.T. 0.00 min  
 Lab File: VU033951.D  
 Acq: 26 Aug 2019 12:42

Tgt Ion: 128 Resp: 53291  
 Ion Ratio Lower Upper  
 128 100  
 49 179.1 122.4 227.2  
 130 125.1 87.8 163.0  
 51 54.2 44.0 66.0



Abundance Ion 127.90 (127.60 to 128.60): V  
 Ion 49.10 (48.80 to 49.80): VU0  
 Ion 129.95 (129.65 to 130.65): V  
 Ion 51.05 (50.75 to 51.75): VU0

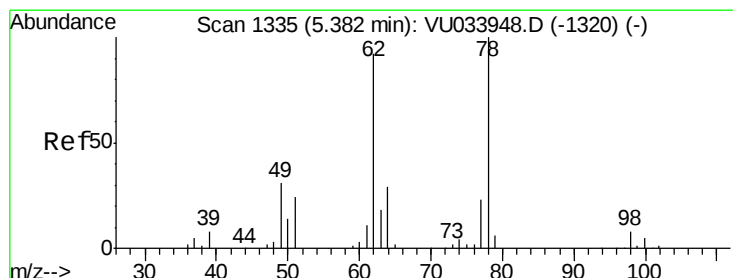
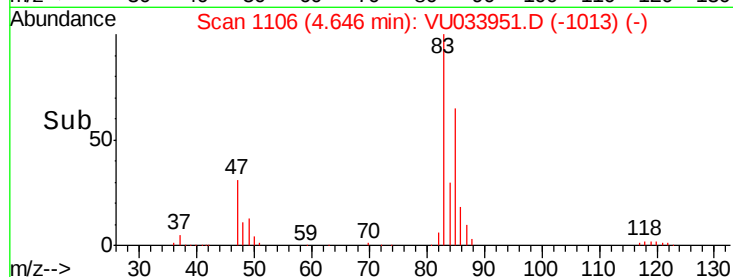
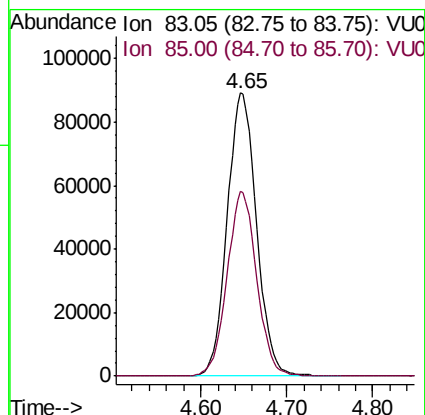
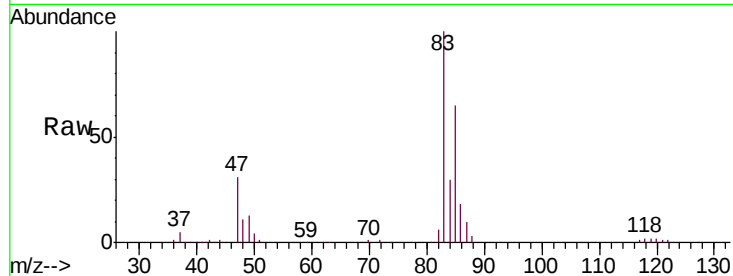




#25  
Chloroform  
Concen: 4.724 ug/L  
RT: 4.65 min Scan# 1106  
Delta R.T. 0.00 min  
Lab File: VU033951.D  
Acq: 26 Aug 2019 12:42

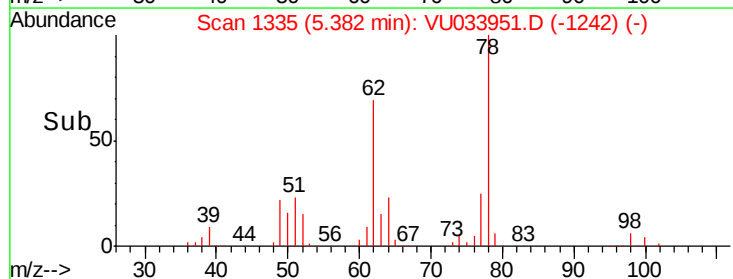
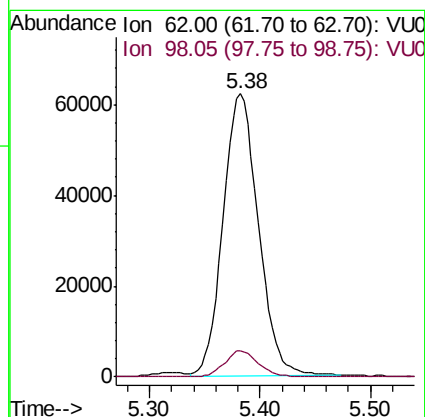
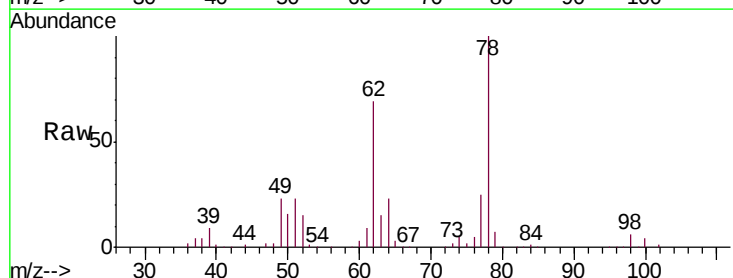
Instrument :  
MSVOA\_U  
ClientSampleId :  
VICV05

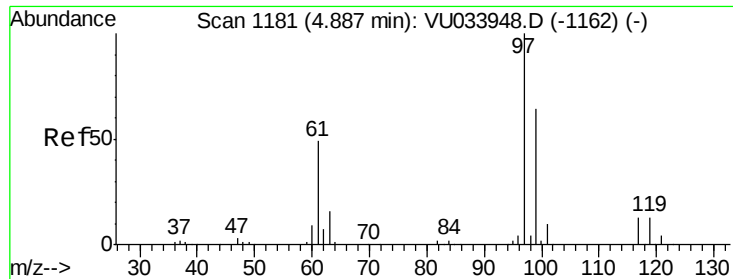
Tgt Ion: 83 Resp: 211010  
Ion Ratio Lower Upper  
83 100  
85 65.2 45.7 84.9



#27  
1,2-Dichloroethane  
Concen: 5.162 ug/L  
RT: 5.38 min Scan# 1335  
Delta R.T. 0.00 min  
Lab File: VU033951.D  
Acq: 26 Aug 2019 12:42

Tgt Ion: 62 Resp: 138004  
Ion Ratio Lower Upper  
62 100  
98 9.1 7.2 10.8

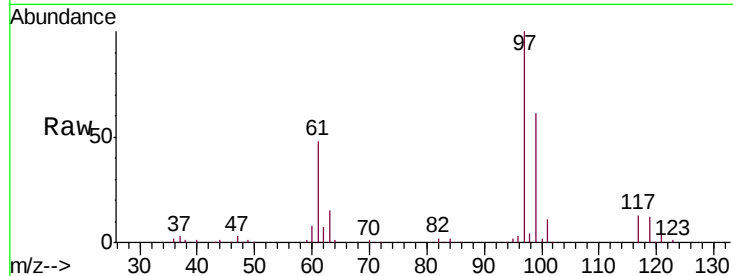




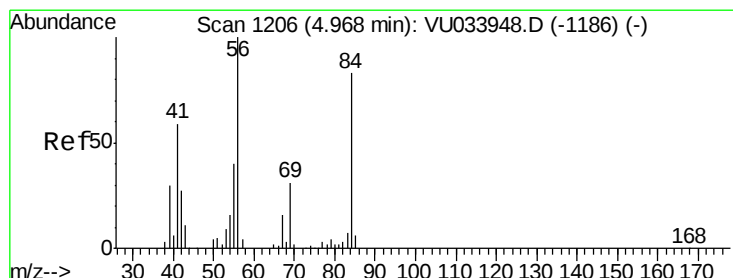
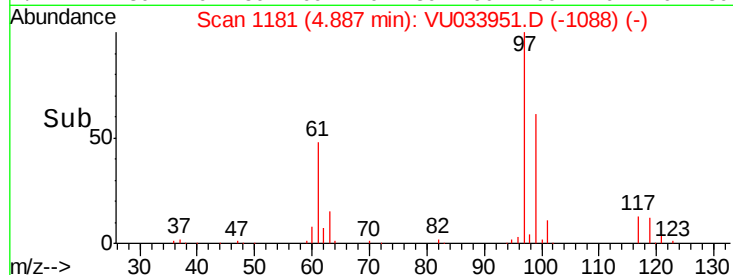
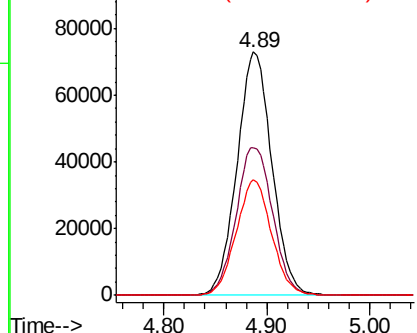
#29  
 1,1,1-Trichloroethane  
 Concen: 5.171 ug/L  
 RT: 4.89 min Scan# 1181  
 Delta R.T. 0.00 min  
 Lab File: VU033951.D  
 Acq: 26 Aug 2019 12:42

Instrument :  
 MSVOA\_U  
 ClientSampled :  
 VICV05

Tgt Ion: 97 Resp: 172007  
 Ion Ratio Lower Upper  
 97 100  
 99 63.9 51.5 77.3  
 61 48.0 39.1 58.7

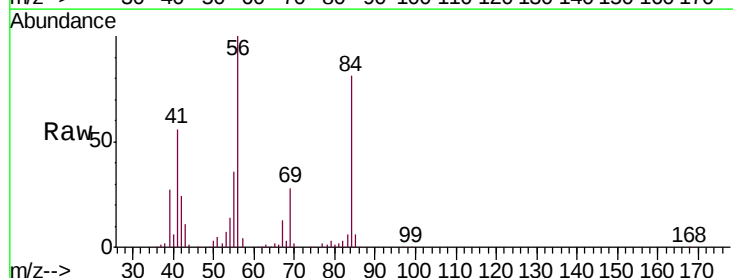


Abundance Ion 96.95 (96.65 to 97.65): VU0  
 Ion 99.05 (98.75 to 99.75): VU0  
 Ion 61.05 (60.75 to 61.75): VU0

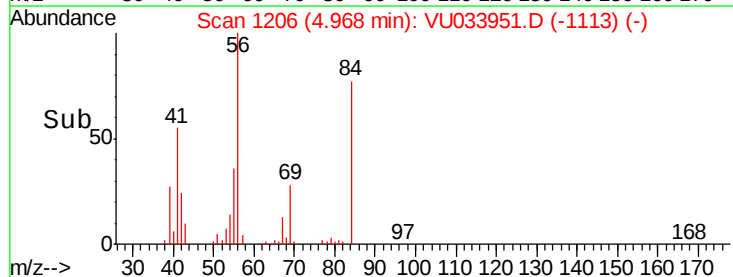
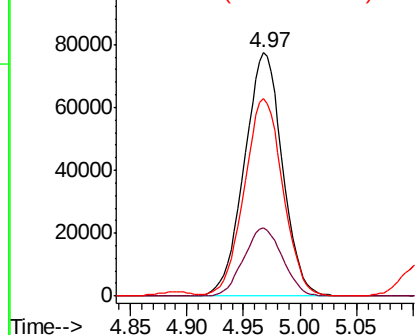


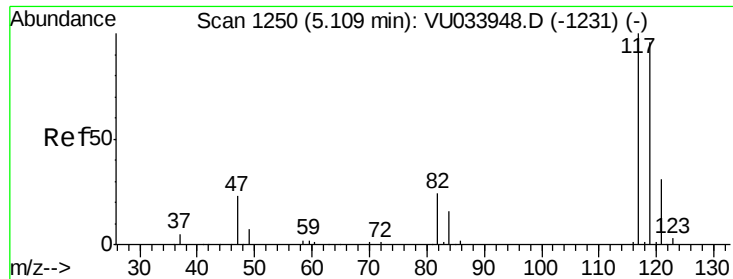
#30  
 Cyclohexane  
 Concen: 5.395 ug/L  
 RT: 4.97 min Scan# 1206  
 Delta R.T. 0.00 min  
 Lab File: VU033951.D  
 Acq: 26 Aug 2019 12:42

Tgt Ion: 56 Resp: 180893  
 Ion Ratio Lower Upper  
 56 100  
 69 28.7 23.5 35.3  
 84 82.7 66.3 99.5



Abundance Ion 56.10 (55.80 to 56.80): VU0  
 Ion 69.15 (68.85 to 69.85): VU0  
 Ion 84.15 (83.85 to 84.85): VU0

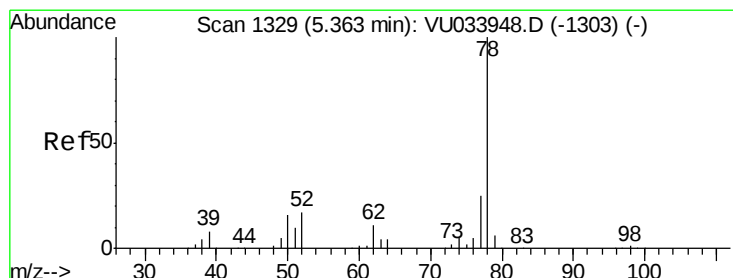
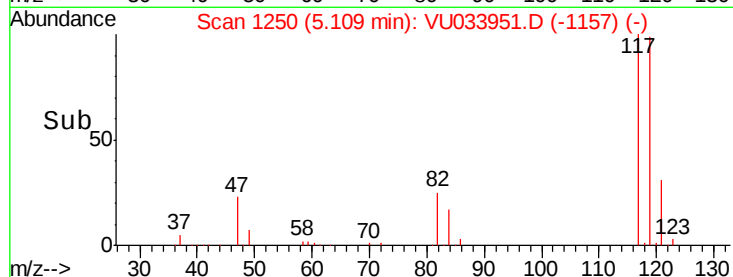
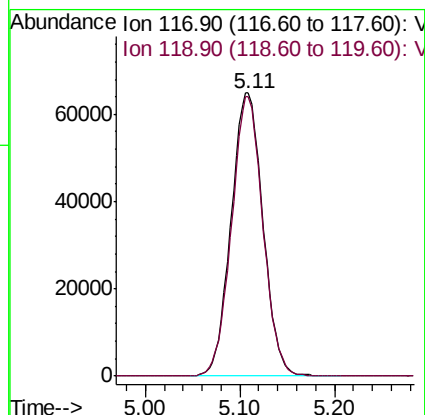
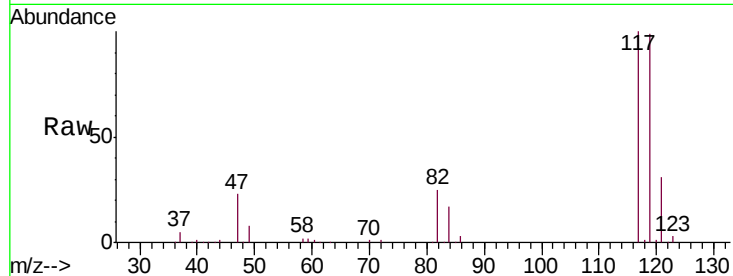




#31  
Carbon tetrachloride  
Concen: 5.137 ug/L  
RT: 5.11 min Scan# 1250  
Delta R.T. 0.00 min  
Lab File: VU033951.D  
Acq: 26 Aug 2019 12:42

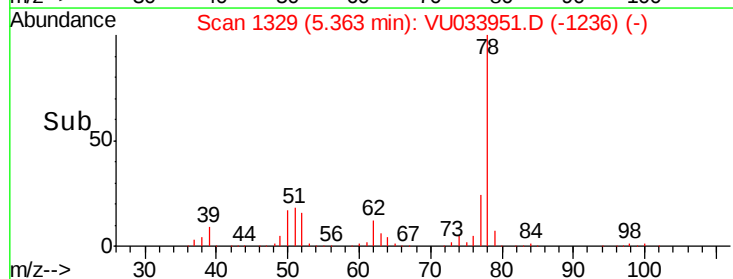
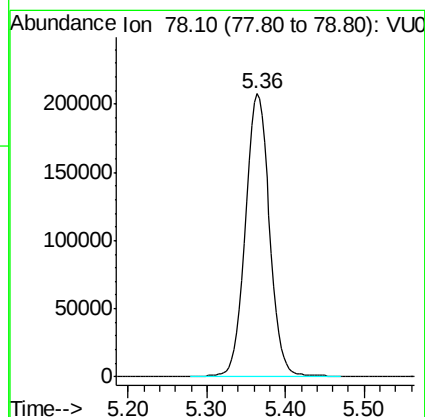
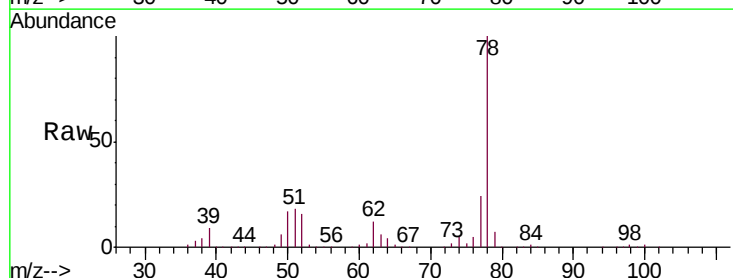
Instrument :  
MSVOA\_U  
ClientSampleId :  
VICV05

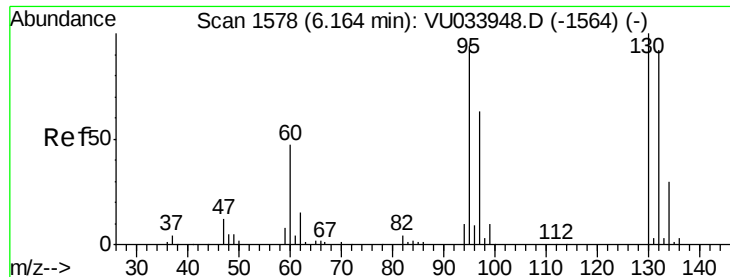
Tgt Ion:117 Resp: 151725  
Ion Ratio Lower Upper  
117 100  
119 96.9 76.4 114.6



#33  
Benzene  
Concen: 5.299 ug/L  
RT: 5.36 min Scan# 1329  
Delta R.T. 0.00 min  
Lab File: VU033951.D  
Acq: 26 Aug 2019 12:42

Tgt Ion: 78 Resp: 451352

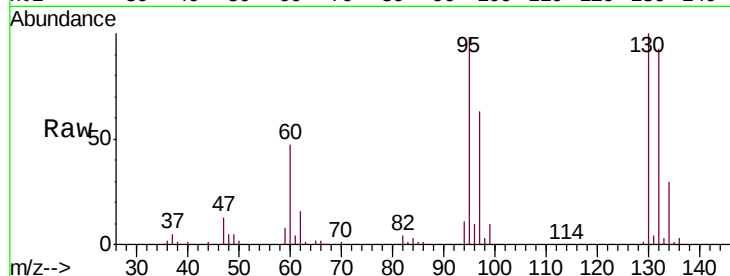




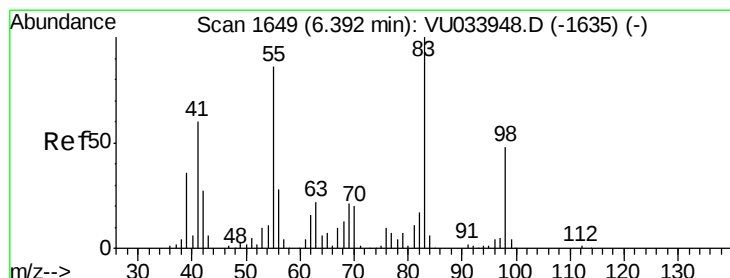
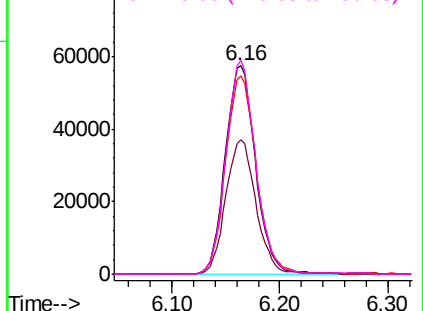
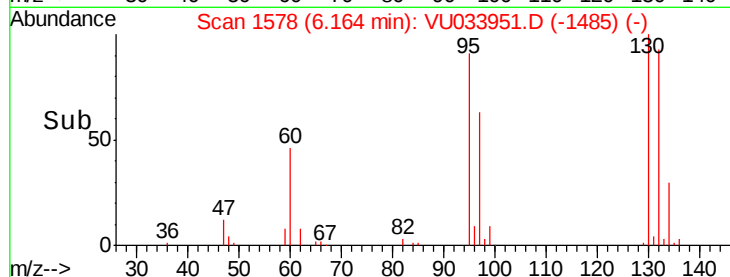
#34  
 Trichloroethene  
 Concen: 5.137 ug/L  
 RT: 6.16 min Scan# 1578  
 Delta R.T. 0.00 min  
 Lab File: VU033951.D  
 Acq: 26 Aug 2019 12:42

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VICV05

Tgt Ion: 95 Resp: 112768  
 Ion Ratio Lower Upper  
 95 100  
 97 64.6 46.9 87.1  
 132 94.9 67.9 126.1  
 130 102.4 74.1 137.7

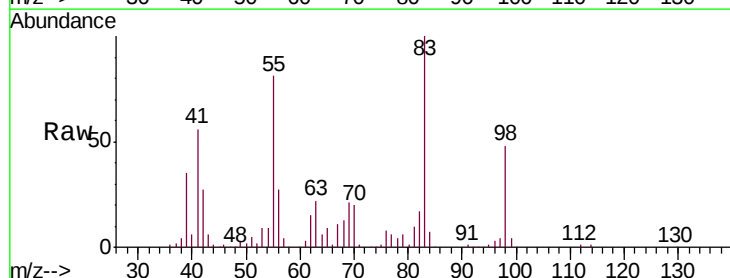


Abundance Ion 95.00 (94.70 to 95.70): VU0  
 Ion 96.95 (96.65 to 97.65): VU0  
 Ion 131.95 (131.65 to 132.65): V  
 Ion 129.95 (129.65 to 130.65): V

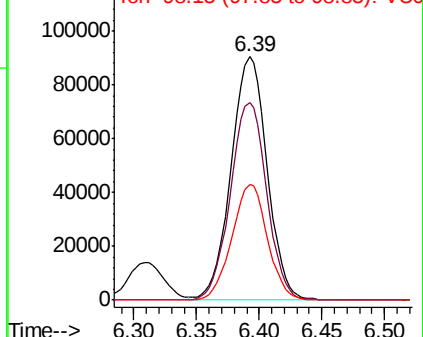
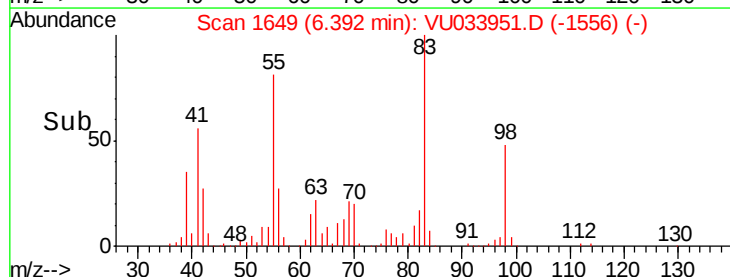


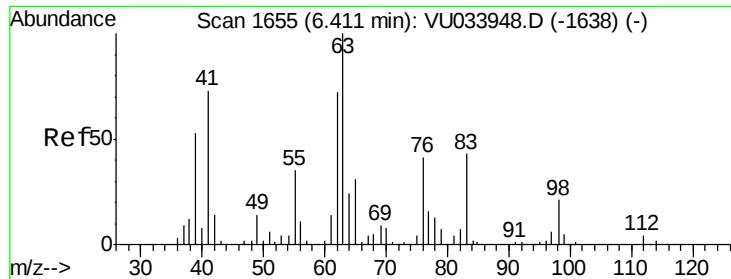
#35  
 Methylcyclohexane  
 Concen: 5.410 ug/L  
 RT: 6.39 min Scan# 1649  
 Delta R.T. 0.00 min  
 Lab File: VU033951.D  
 Acq: 26 Aug 2019 12:42

Tgt Ion: 83 Resp: 180020  
 Ion Ratio Lower Upper  
 83 100  
 55 82.4 68.6 103.0  
 98 47.1 38.7 58.1



Abundance Ion 83.15 (82.85 to 83.85): VU0  
 Ion 55.10 (54.80 to 55.80): VU0  
 Ion 98.15 (97.85 to 98.85): VU0

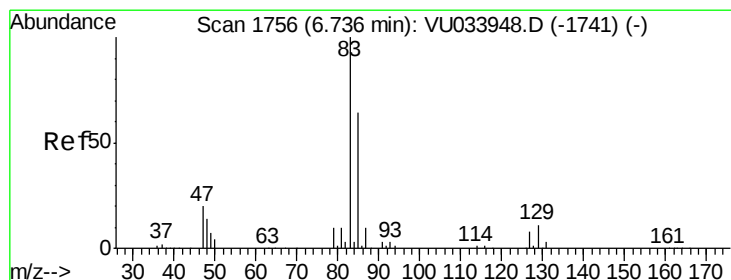
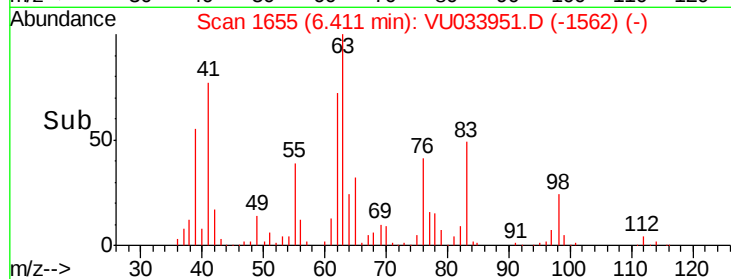
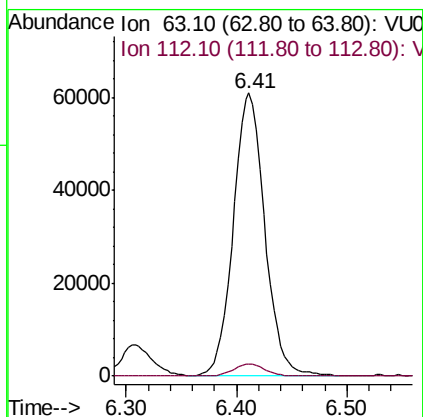
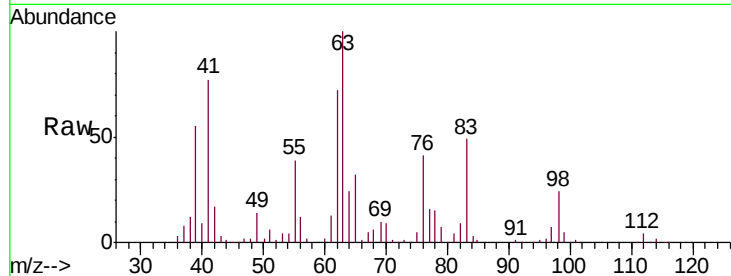




#37  
 1,2-Dichloropropane  
 Concen: 5.138 ug/L  
 RT: 6.41 min Scan# 1655  
 Delta R.T. 0.00 min  
 Lab File: VU033951.D  
 Acq: 26 Aug 2019 12:42

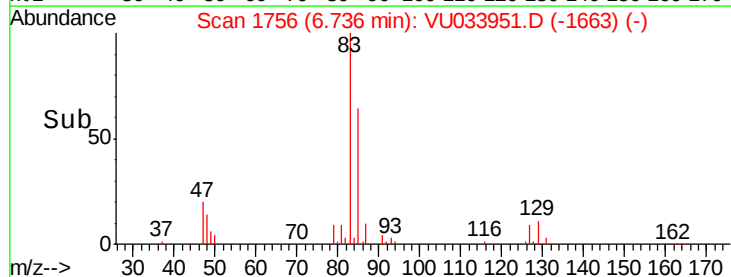
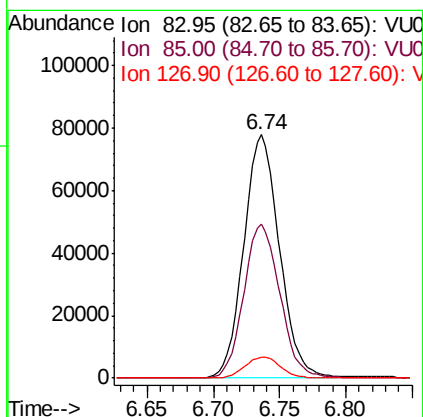
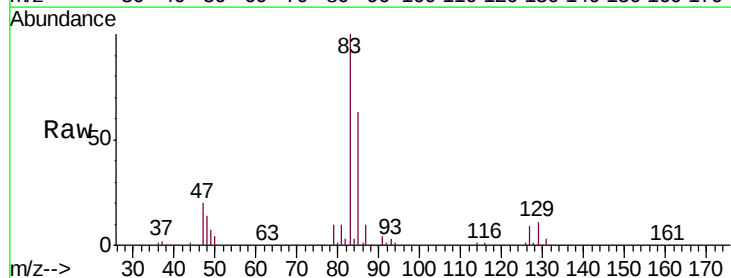
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VICV05

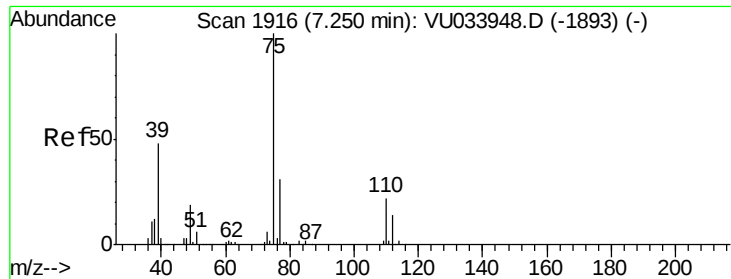
Tgt Ion: 63 Resp: 119860  
 Ion Ratio Lower Upper  
 63 100  
 112 4.4 3.4 5.0



#38  
 Bromodichloromethane  
 Concen: 5.102 ug/L  
 RT: 6.74 min Scan# 1756  
 Delta R.T. 0.00 min  
 Lab File: VU033951.D  
 Acq: 26 Aug 2019 12:42

Tgt Ion: 83 Resp: 145797  
 Ion Ratio Lower Upper  
 83 100  
 85 63.0 44.5 82.7  
 127 8.6 6.6 9.8

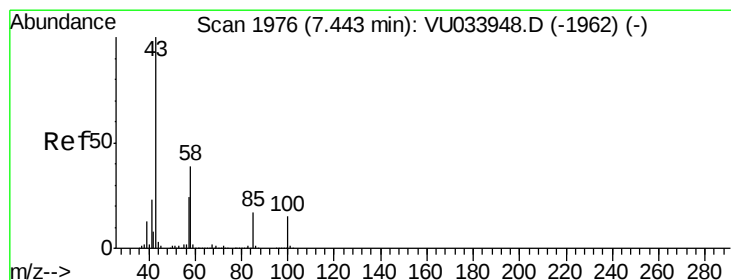
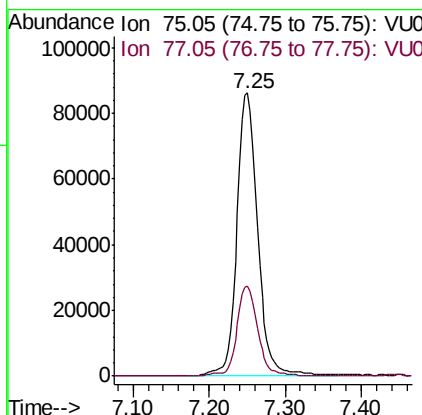
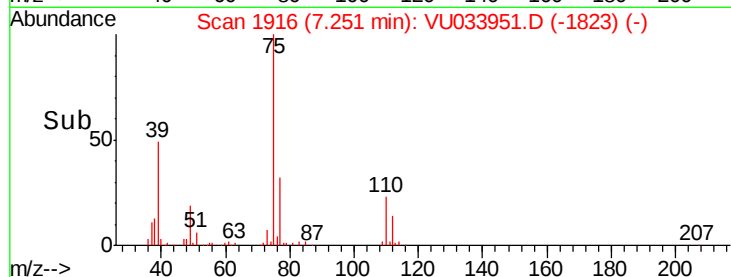
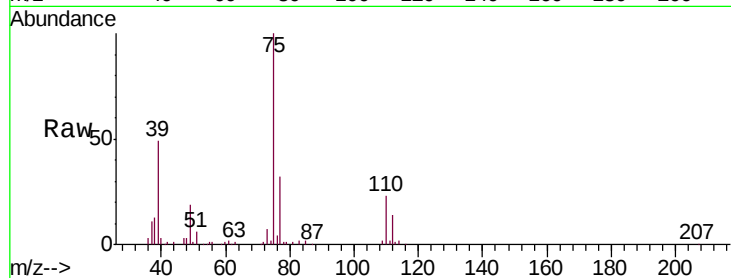




#39  
 cis-1,3-Dichloropropene  
 Concen: 5.398 ug/L  
 RT: 7.25 min Scan# 1916  
 Delta R.T. 0.00 min  
 Lab File: VU033951.D  
 Acq: 26 Aug 2019 12:42

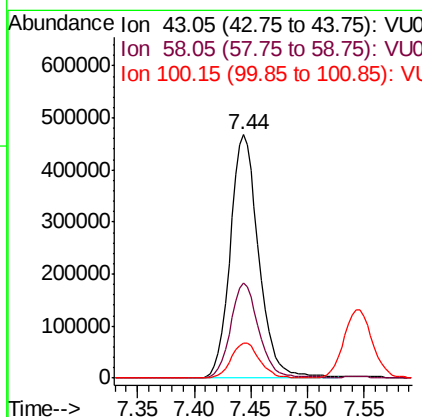
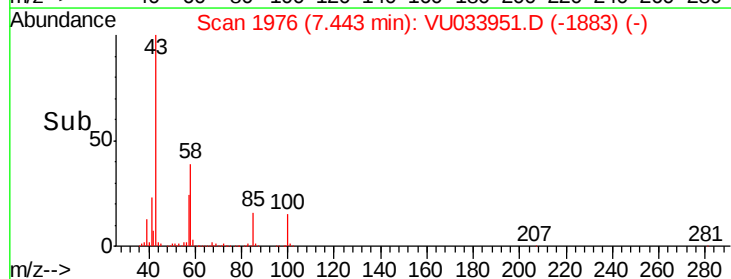
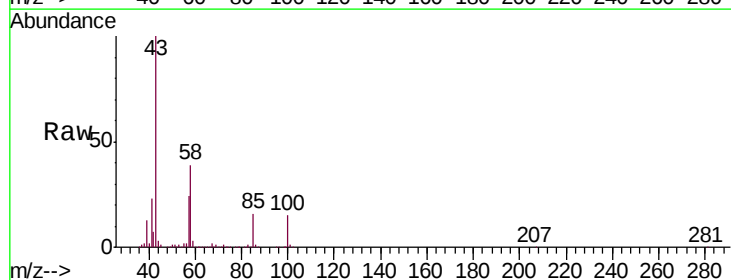
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VICV05

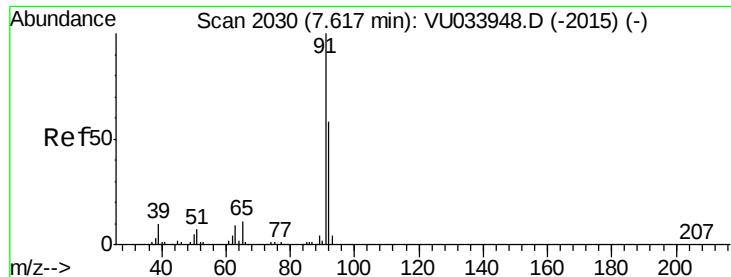
Tgt Ion: 75 Resp: 164187  
 Ion Ratio Lower Upper  
 75 100  
 77 31.7 21.9 40.7



#40  
 4-Methyl-2-pentanone  
 Concen: 57.334 ug/L  
 RT: 7.44 min Scan# 1976  
 Delta R.T. 0.00 min  
 Lab File: VU033951.D  
 Acq: 26 Aug 2019 12:42

Tgt Ion: 43 Resp: 818409  
 Ion Ratio Lower Upper  
 43 100  
 58 38.8 30.3 45.5  
 100 14.5 11.4 17.2





#42

Toluene

Concen: 5.431 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. 0.00 min

Lab File: VU033951.D

Acq: 26 Aug 2019 12:42

Instrument :

MSVOA\_U

ClientSampleId :

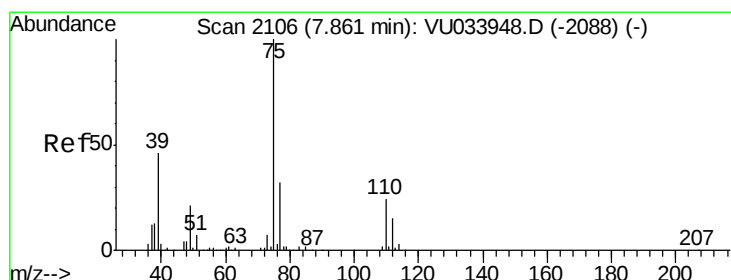
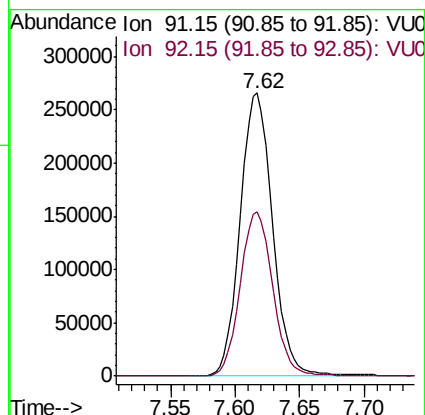
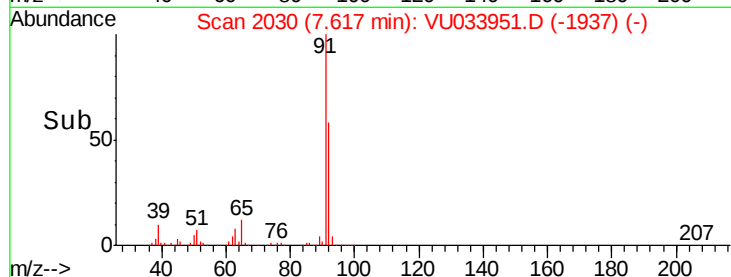
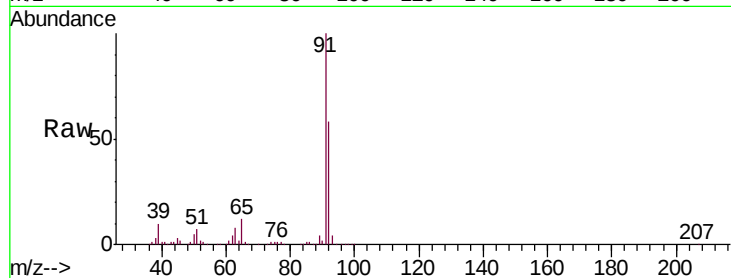
VICV05

Tgt Ion: 91 Resp: 464584

Ion Ratio Lower Upper

91 100

92 58.2 40.4 75.0



#44

trans-1,3-Dichloropropene

Concen: 5.379 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. 0.00 min

Lab File: VU033951.D

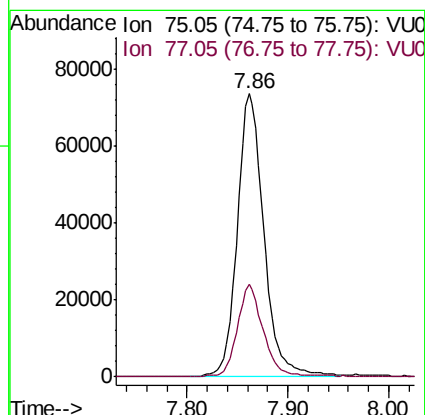
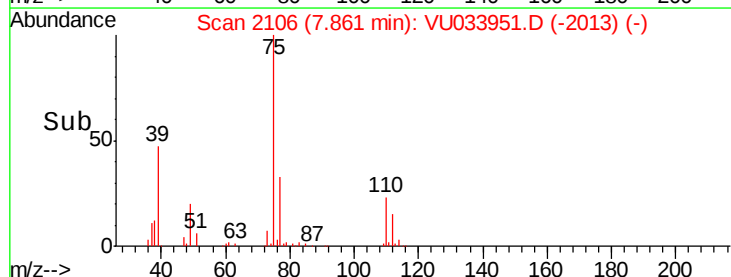
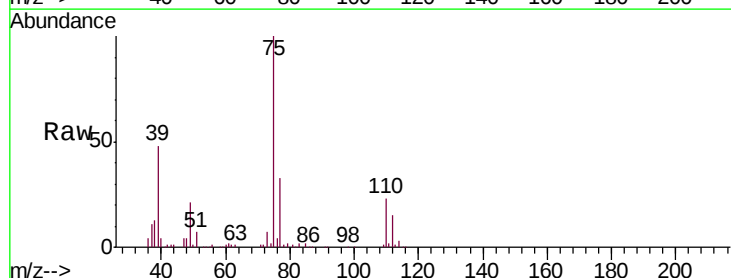
Acq: 26 Aug 2019 12:42

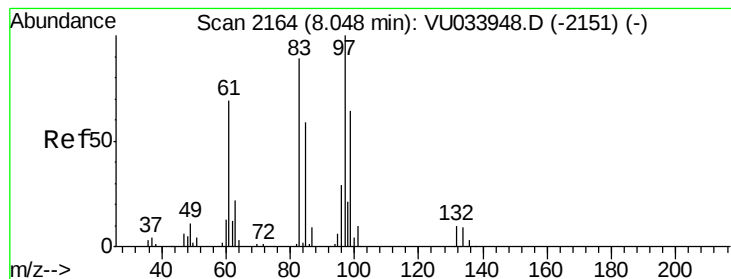
Tgt Ion: 75 Resp: 135235

Ion Ratio Lower Upper

75 100

77 32.5 22.7 42.1





#45

1,1,2-Trichloroethane

Concen: 5.245 ug/L

RT: 8.05 min Scan# 2164

Delta R.T. 0.00 min

Lab File: VU033951.D

Acq: 26 Aug 2019 12:42

Instrument :

MSVOA\_U

ClientSampleId :

VICV05

Tgt Ion: 97 Resp: 82702

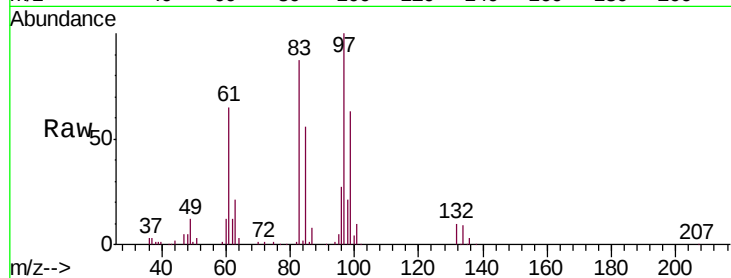
Ion Ratio Lower Upper

97 100

99 63.3 44.9 83.3

83 87.2 62.6 116.3

85 56.0 41.0 76.2

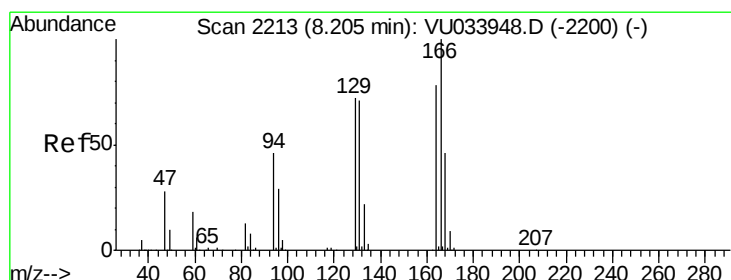
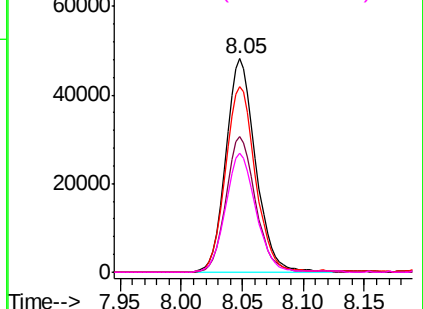
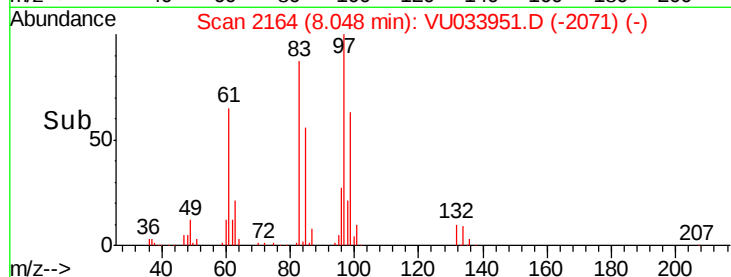


Abundance Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0



#47

Tetrachloroethene

Concen: 5.155 ug/L

RT: 8.21 min Scan# 2213

Delta R.T. 0.00 min

Lab File: VU033951.D

Acq: 26 Aug 2019 12:42

Tgt Ion: 164 Resp: 89077

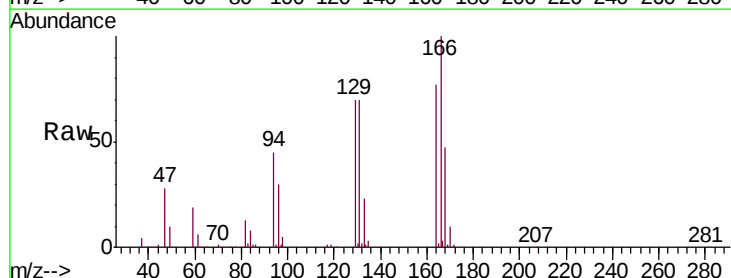
Ion Ratio Lower Upper

164 100

129 91.8 64.9 120.5

131 91.7 63.7 118.3

166 130.6 89.9 167.0

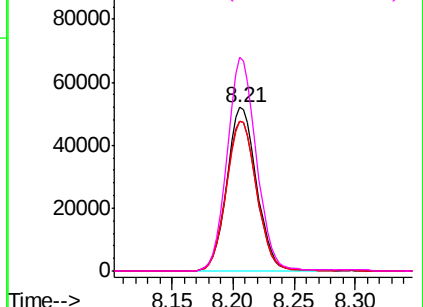
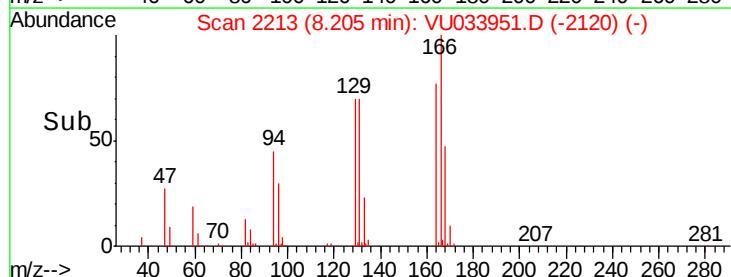


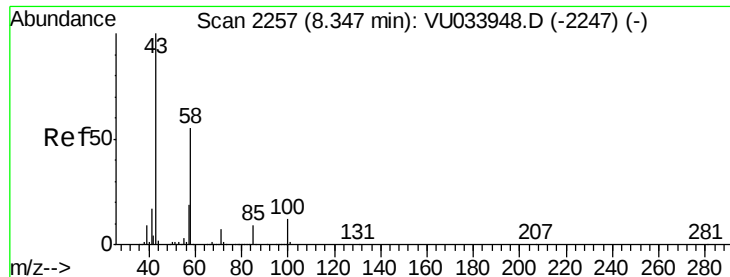
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

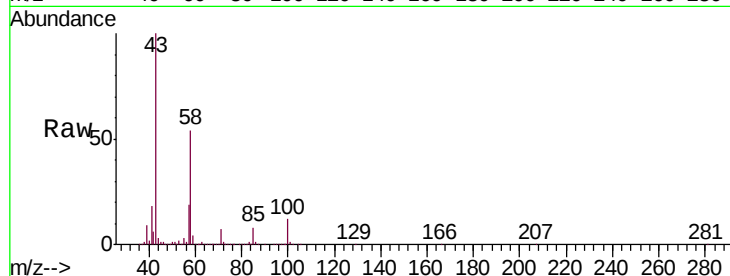




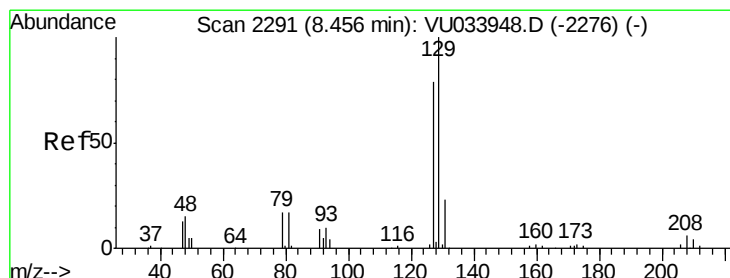
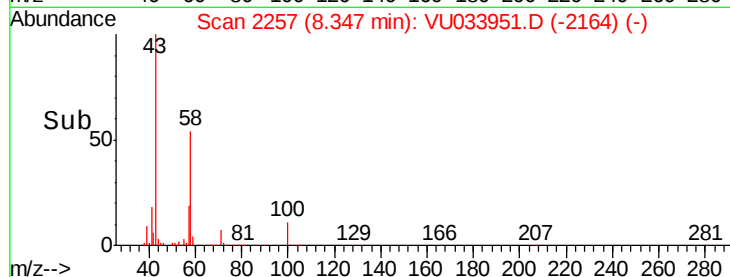
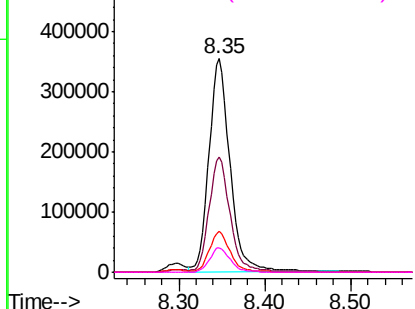
#48  
2-Hexanone  
Concen: 60.896 ug/L  
RT: 8.35 min Scan# 2257  
Delta R.T. 0.00 min  
Lab File: VU033951.D  
Acq: 26 Aug 2019 12:42

Instrument :  
MSVOA\_U  
ClientSampleId :  
VICV05

Tgt Ion: 43 Resp: 608799  
Ion Ratio Lower Upper  
43 100  
58 54.3 42.9 64.3  
57 18.8 14.8 22.2  
100 11.3 9.0 13.6

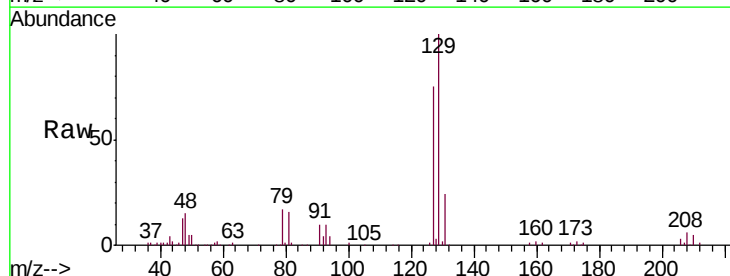


Abundance Ion 43.05 (42.75 to 43.75): VU0  
Ion 58.05 (57.75 to 58.75): VU0  
Ion 57.20 (56.90 to 57.90): VU0  
Ion 100.15 (99.85 to 100.85): VU0

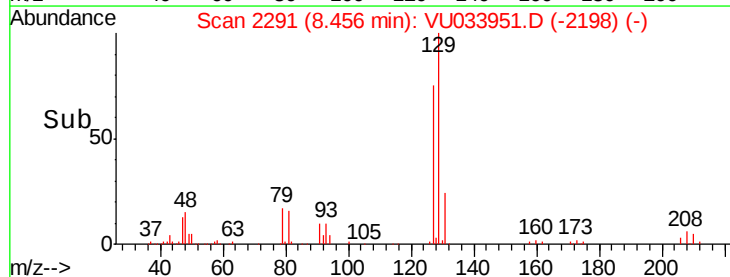
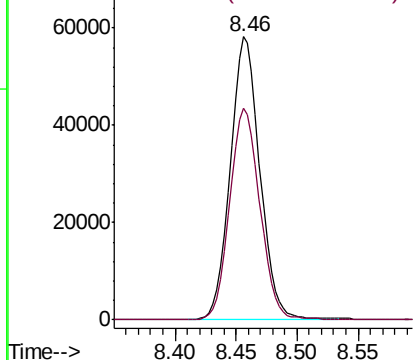


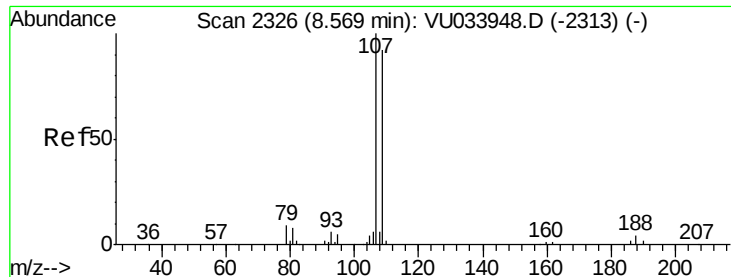
#49  
Dibromochloromethane  
Concen: 5.301 ug/L  
RT: 8.46 min Scan# 2291  
Delta R.T. 0.00 min  
Lab File: VU033951.D  
Acq: 26 Aug 2019 12:42

Tgt Ion: 129 Resp: 98588  
Ion Ratio Lower Upper  
129 100  
127 75.0 55.6 103.2



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

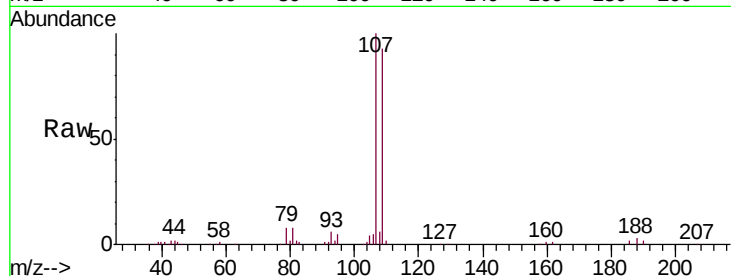




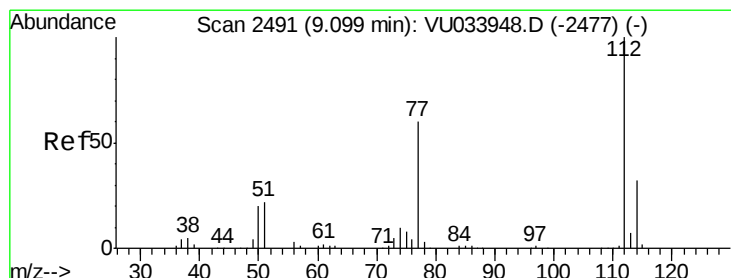
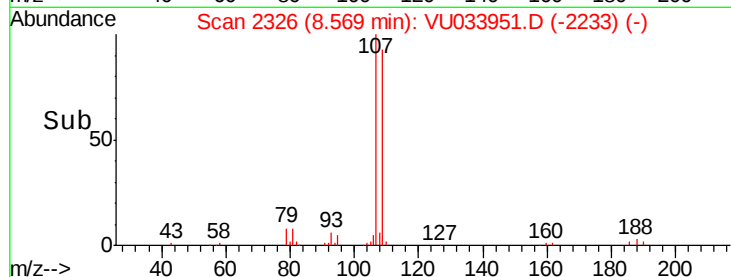
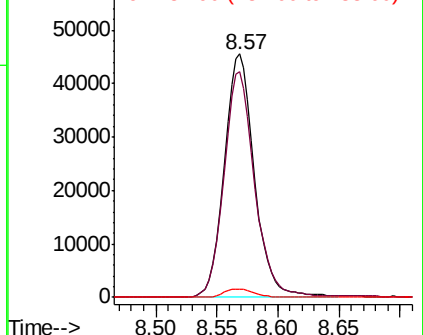
#50  
 1,2-Dibromoethane  
 Concen: 5.238 ug/L  
 RT: 8.57 min Scan# 2326  
 Delta R.T. 0.00 min  
 Lab File: VU033951.D  
 Acq: 26 Aug 2019 12:42

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VICV05

Tgt Ion:107 Resp: 78994  
 Ion Ratio Lower Upper  
 107 100  
 109 92.6 64.7 120.1  
 188 3.5 3.4 5.2

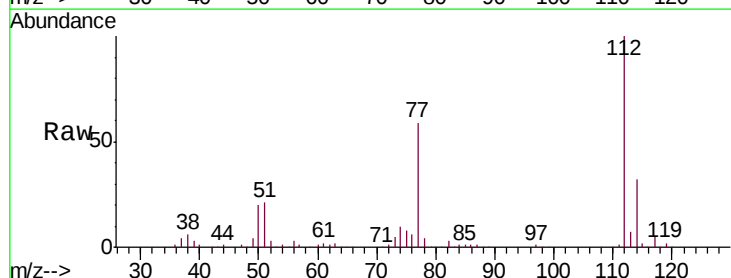


Abundance Ion 106.95 (106.65 to 107.65): V  
 Ion 109.00 (108.70 to 109.70): V  
 Ion 187.90 (187.60 to 188.60): V

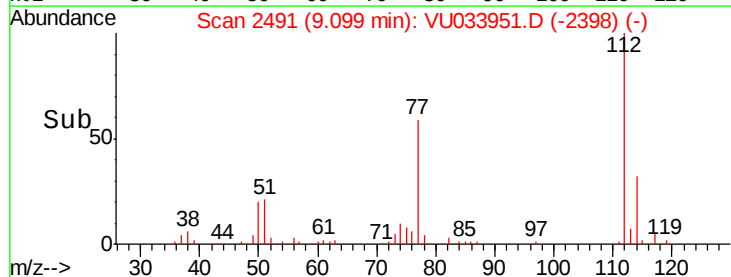
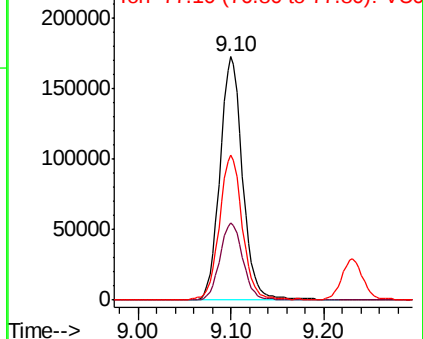


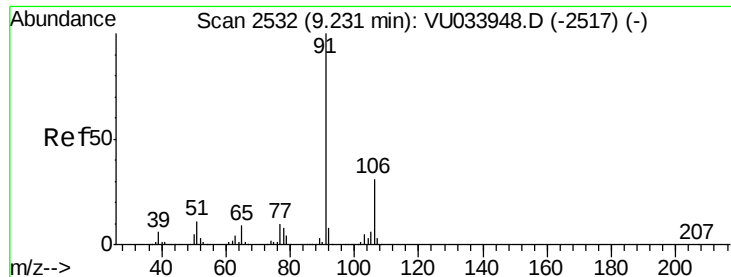
#51  
 Chlorobenzene  
 Concen: 5.224 ug/L  
 RT: 9.10 min Scan# 2491  
 Delta R.T. 0.00 min  
 Lab File: VU033951.D  
 Acq: 26 Aug 2019 12:42

Tgt Ion:112 Resp: 292513  
 Ion Ratio Lower Upper  
 112 100  
 114 31.8 22.3 41.5  
 77 59.5 48.0 72.0



Abundance Ion 112.10 (111.80 to 112.80): V  
 Ion 114.05 (113.75 to 114.75): V  
 Ion 77.10 (76.80 to 77.80): VU





#52

Ethylbenzene

Concen: 5.417 ug/L

RT: 9.23 min Scan# 2532

Delta R.T. 0.00 min

Lab File: VU033951.D

Acq: 26 Aug 2019 12:42

Instrument :

MSVOA\_U

ClientSampleId :

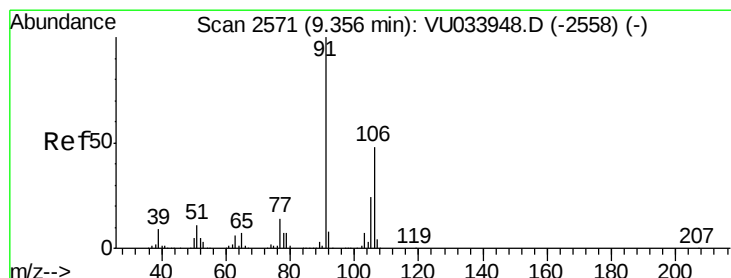
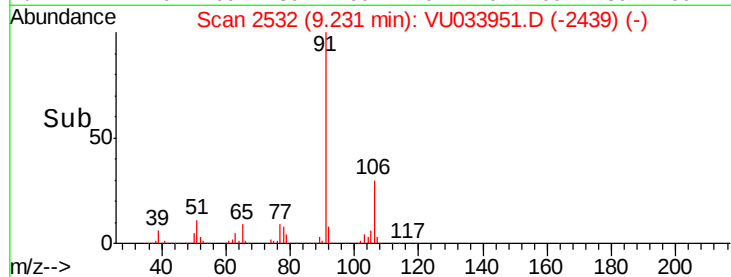
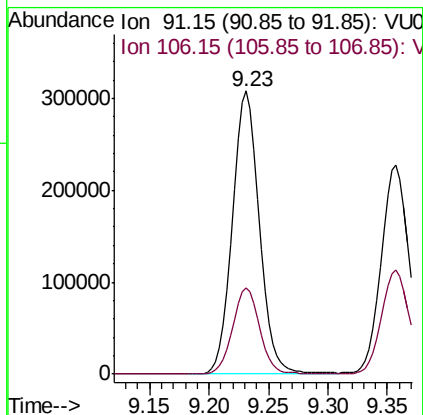
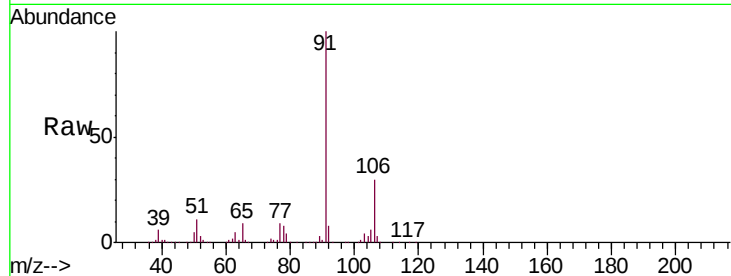
VICV05

Tgt Ion: 91 Resp: 484244

Ion Ratio Lower Upper

91 100

106 30.3 22.0 40.8



#53

m,p-Xylene

Concen: 5.571 ug/L

RT: 9.36 min Scan# 2571

Delta R.T. 0.00 min

Lab File: VU033951.D

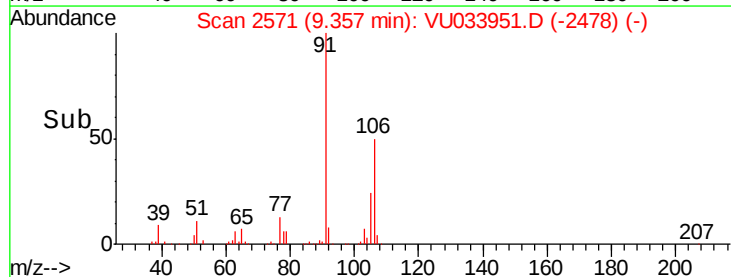
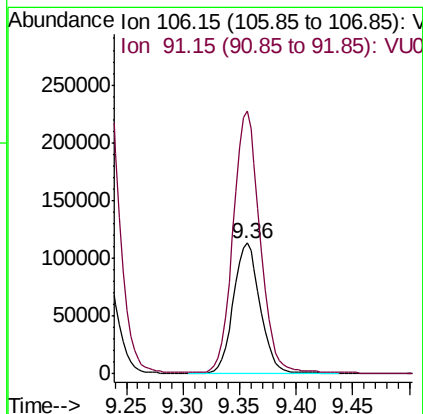
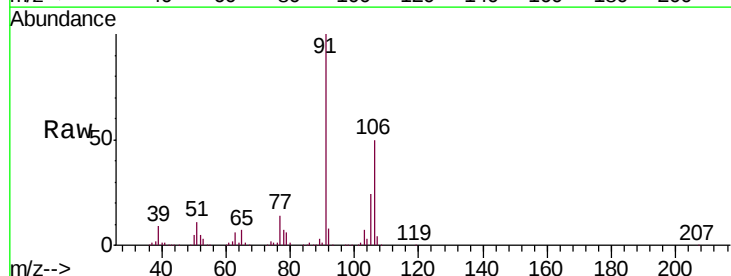
Acq: 26 Aug 2019 12:42

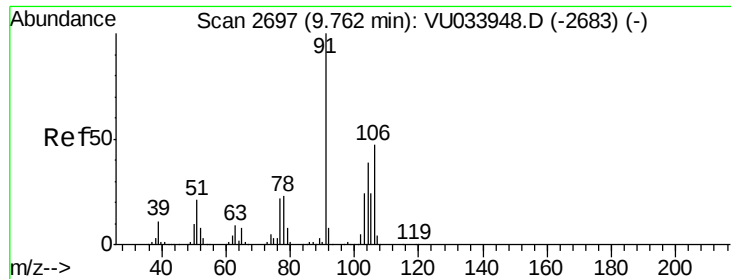
Tgt Ion: 106 Resp: 186304

Ion Ratio Lower Upper

106 100

91 200.9 145.1 269.5

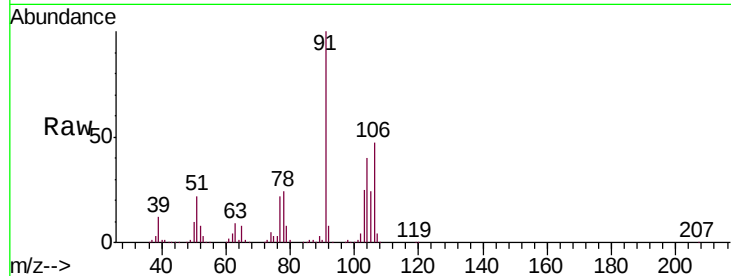




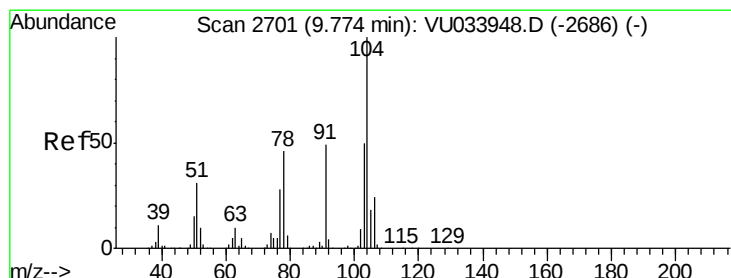
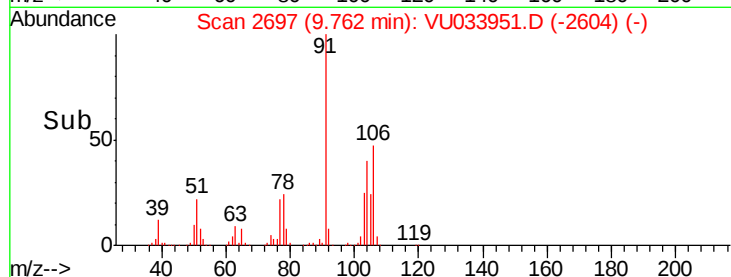
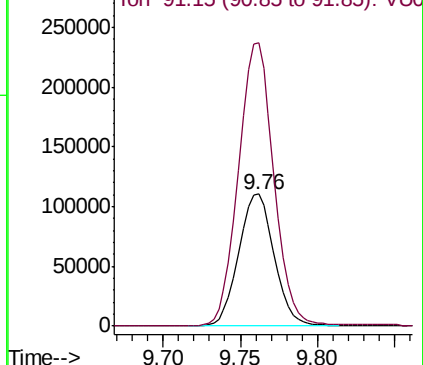
#54  
o-Xylene  
Concen: 5.585 ug/L  
RT: 9.76 min Scan# 2697  
Delta R.T. 0.00 min  
Lab File: VU033951.D  
Acq: 26 Aug 2019 12:42

Instrument :  
MSVOA\_U  
ClientSampleId :  
VICV05

Tgt Ion:106 Resp: 176341  
Ion Ratio Lower Upper  
106 100  
91 214.8 150.6 279.6

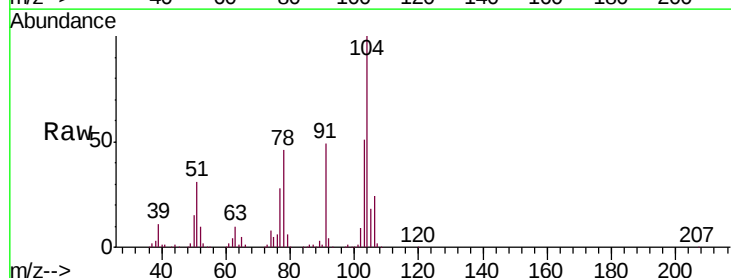


Abundance Ion 106.15 (105.85 to 106.85): V  
Ion 91.15 (90.85 to 91.85): VU0

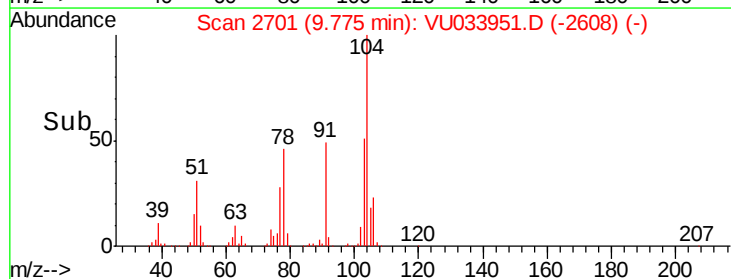
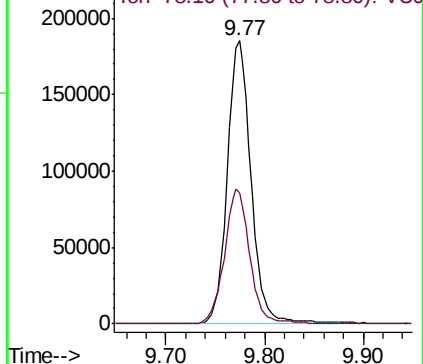


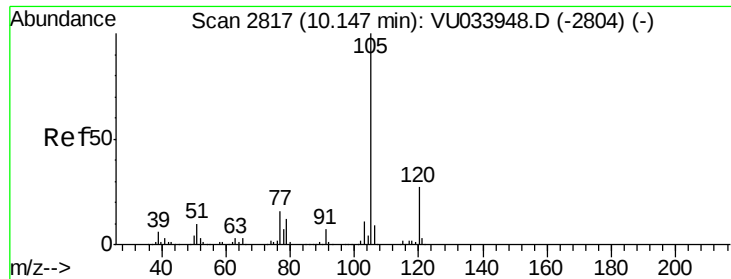
#55  
Styrene  
Concen: 5.716 ug/L  
RT: 9.77 min Scan# 2701  
Delta R.T. 0.00 min  
Lab File: VU033951.D  
Acq: 26 Aug 2019 12:42

Tgt Ion:104 Resp: 310772  
Ion Ratio Lower Upper  
104 100  
78 46.3 31.9 59.3



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





#56

Isopropylbenzene

Concen: 5.598 ug/L

RT: 10.15 min Scan# 2817

Delta R.T. 0.00 min

Lab File: VU033951.D

Acq: 26 Aug 2019 12:42

Instrument :

MSVOA\_U

ClientSampleId :

VICV05

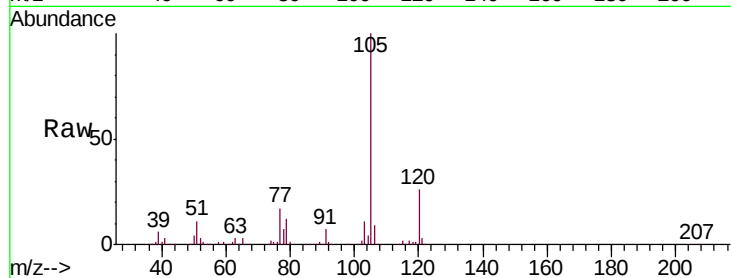
Tgt Ion: 105 Resp: 467339

Ion Ratio Lower Upper

105 100

120 25.9 21.4 32.2

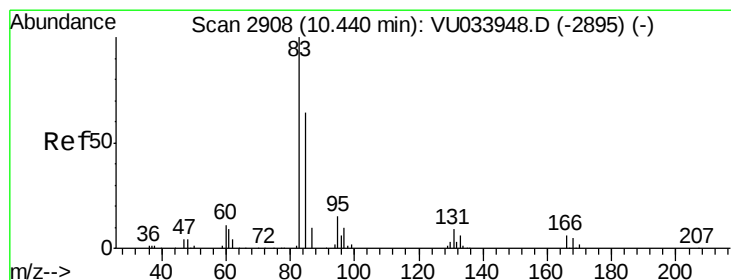
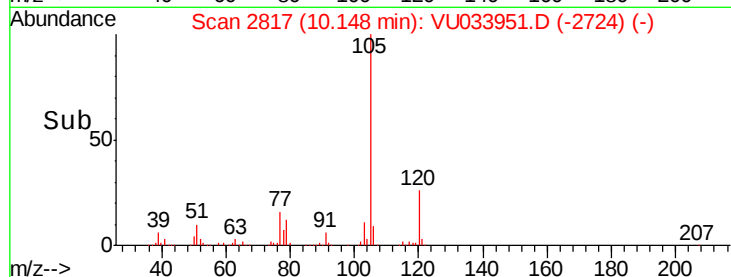
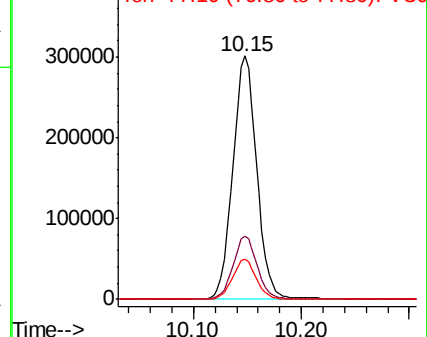
77 16.2 13.3 19.9



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 5.235 ug/L

RT: 10.44 min Scan# 2907

Delta R.T. -0.00 min

Lab File: VU033951.D

Acq: 26 Aug 2019 12:42

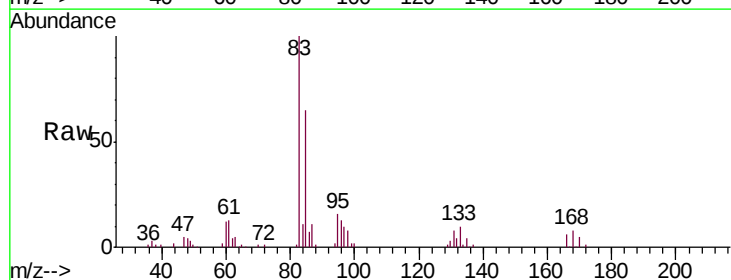
Tgt Ion: 83 Resp: 108990

Ion Ratio Lower Upper

83 100

85 65.3 45.1 83.9

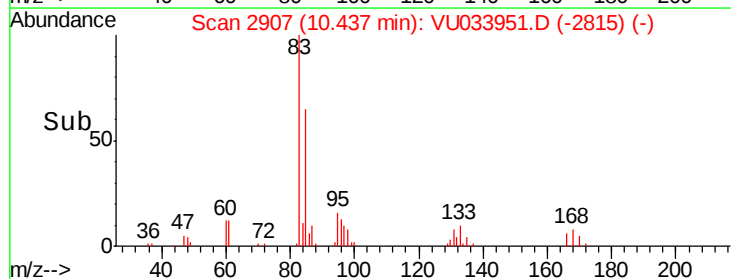
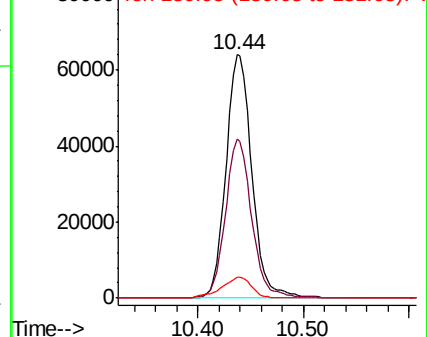
131 8.5 7.8 11.8

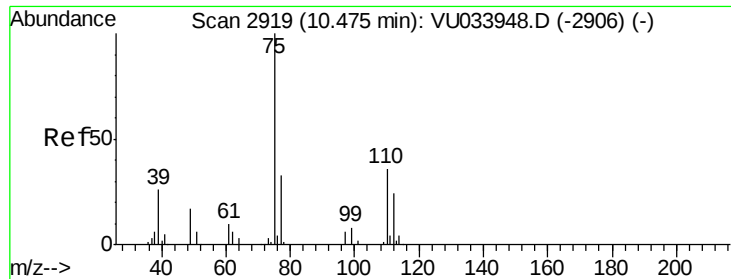


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 5.422 ug/L

RT: 10.48 min Scan# 2919

Delta R.T. 0.00 min

Lab File: VU033951.D

Acq: 26 Aug 2019 12:42

Instrument :

MSVOA\_U

ClientSampled :

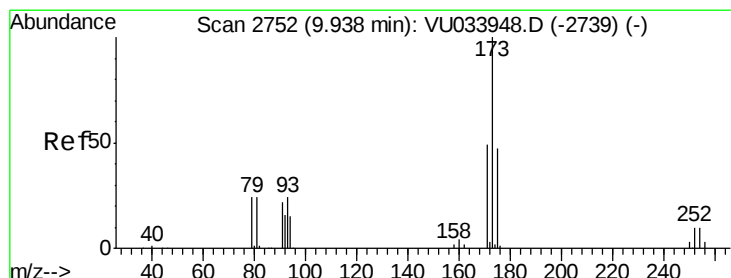
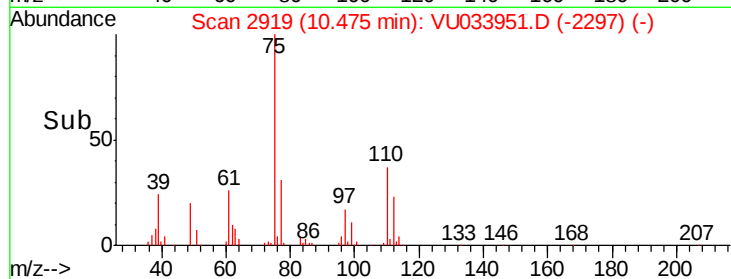
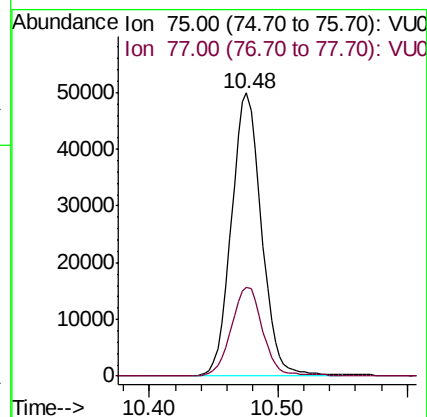
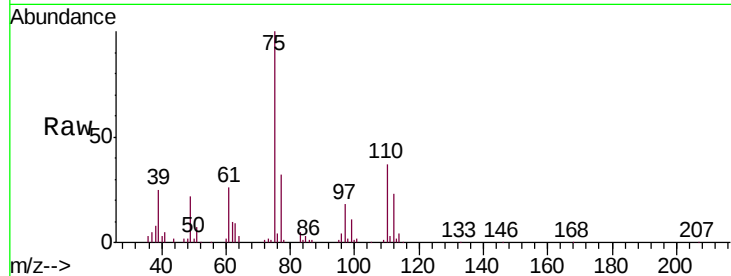
VICV05

Tgt Ion: 75 Resp: 81088

Ion Ratio Lower Upper

75 100

77 33.0 24.9 37.3



#61

Bromoform

Concen: 5.149 ug/L

RT: 9.94 min Scan# 2752

Delta R.T. 0.00 min

Lab File: VU033951.D

Acq: 26 Aug 2019 12:42

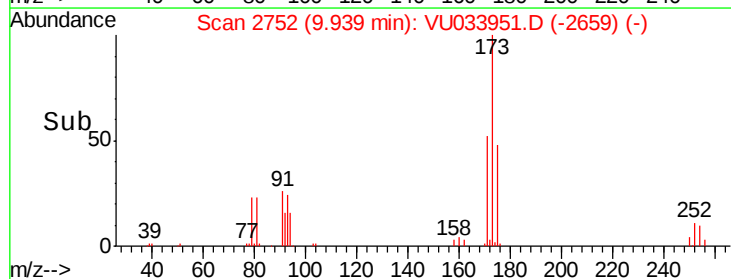
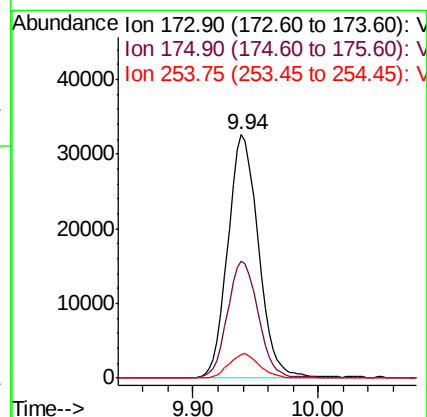
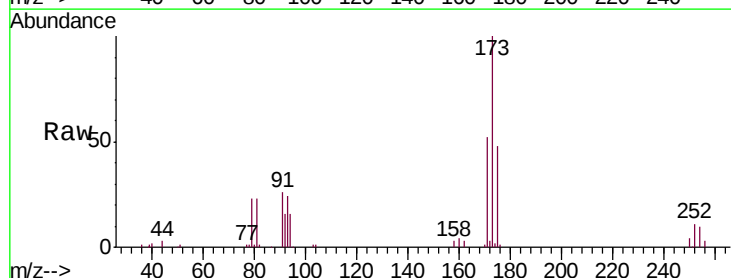
Tgt Ion: 173 Resp: 55423

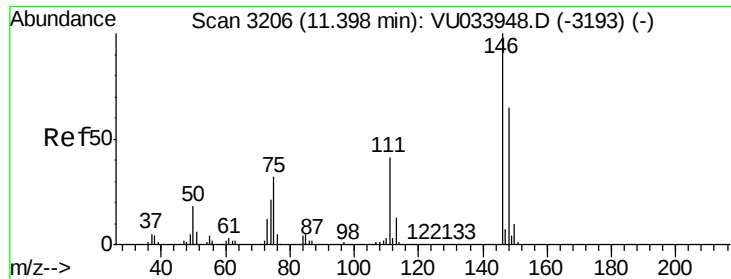
Ion Ratio Lower Upper

173 100

175 48.2 38.2 57.2

254 9.9 8.4 12.6





#62

1,3-Dichlorobenzene

Concen: 5.453 ug/L

RT: 11.40 min Scan# 3206

Delta R.T. 0.00 min

Lab File: VU033951.D

Acq: 26 Aug 2019 12:42

Instrument :

MSVOA\_U

ClientSampleId :

VICV05

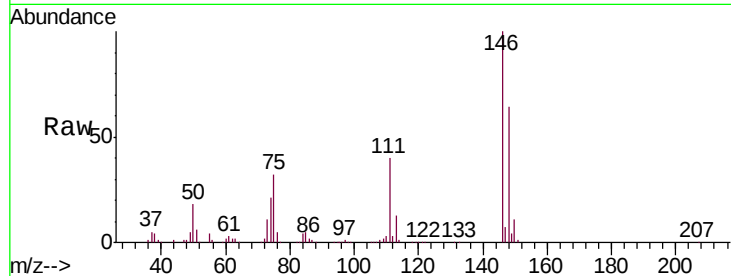
Tgt Ion:146 Resp: 241039

Ion Ratio Lower Upper

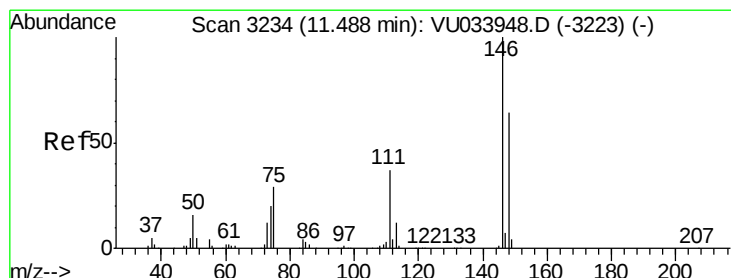
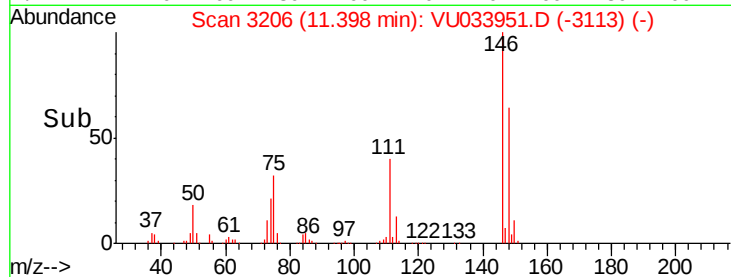
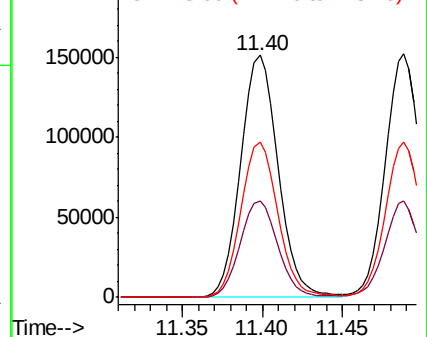
146 100

111 39.7 28.8 53.6

148 64.1 45.4 84.4



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



#63

1,4-Dichlorobenzene

Concen: 5.329 ug/L

RT: 11.49 min Scan# 3234

Delta R.T. 0.00 min

Lab File: VU033951.D

Acq: 26 Aug 2019 12:42

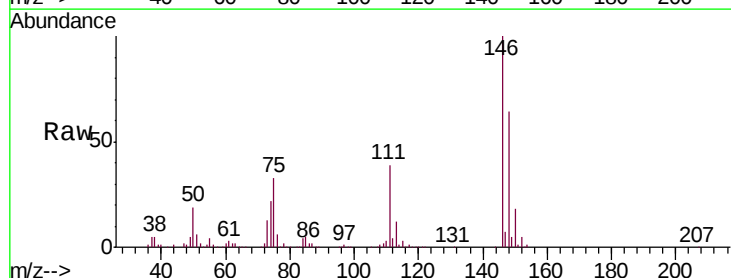
Tgt Ion:146 Resp: 244328

Ion Ratio Lower Upper

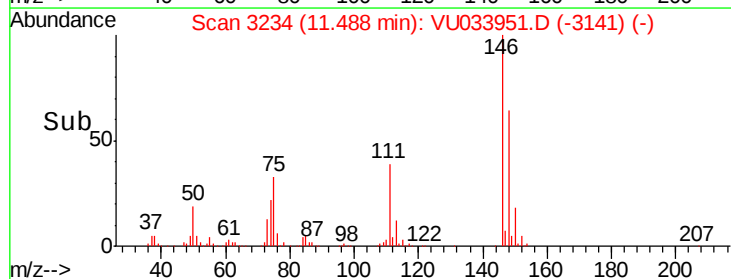
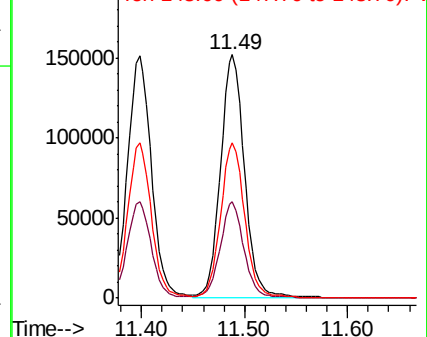
146 100

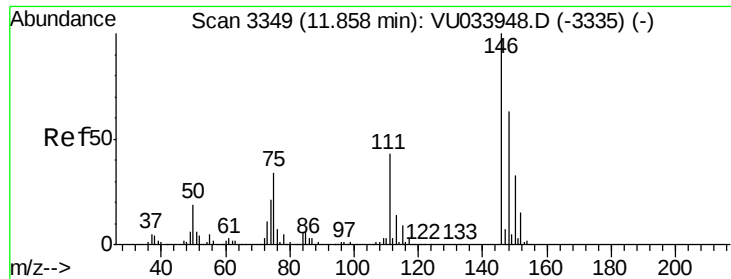
111 39.4 26.5 49.1

148 63.6 44.7 82.9



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





#65

1,2-Dichlorobenzene

Concen: 5.389 ug/L

RT: 11.86 min Scan# 3349

Delta R.T. 0.00 min

Lab File: VU033951.D

Acq: 26 Aug 2019 12:42

Instrument :

MSVOA\_U

ClientSampleId :

VICV05

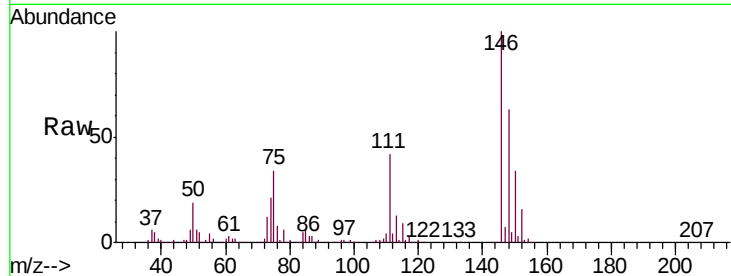
Tgt Ion:146 Resp: 229007

Ion Ratio Lower Upper

146 100

111 42.3 34.3 51.5

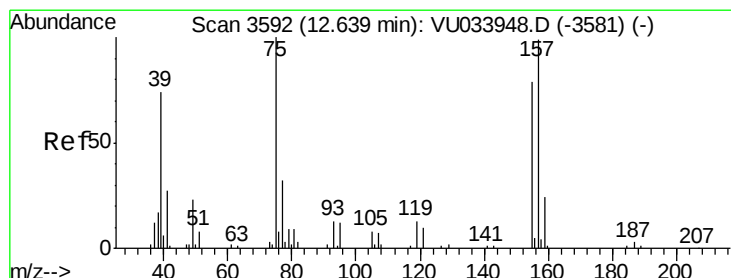
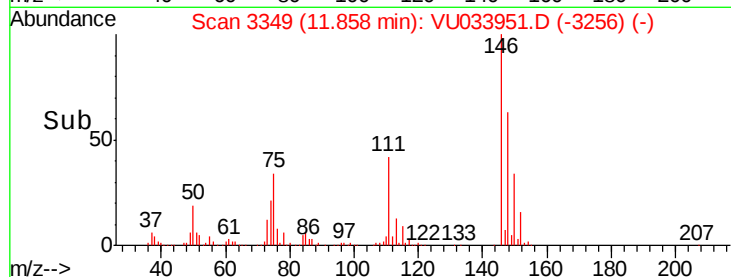
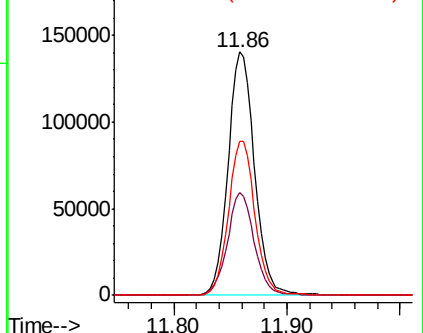
148 63.1 50.5 75.7



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 5.609 ug/L

RT: 12.64 min Scan# 3592

Delta R.T. 0.00 min

Lab File: VU033951.D

Acq: 26 Aug 2019 12:42

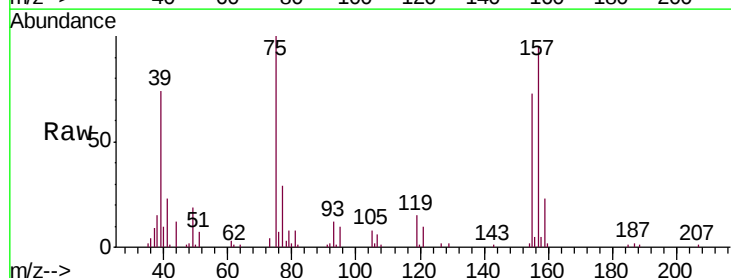
Tgt Ion: 75 Resp: 18557

Ion Ratio Lower Upper

75 100

155 72.7 63.0 94.4

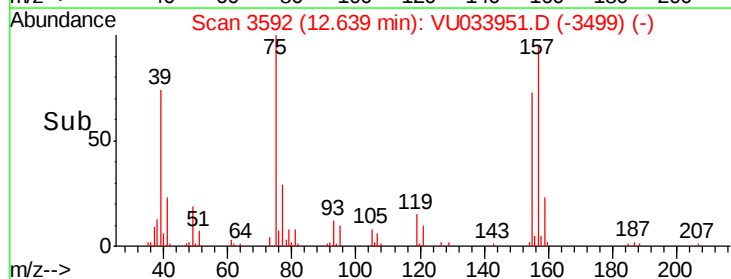
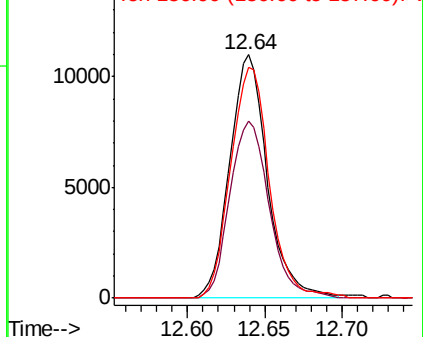
157 94.9 79.4 119.0

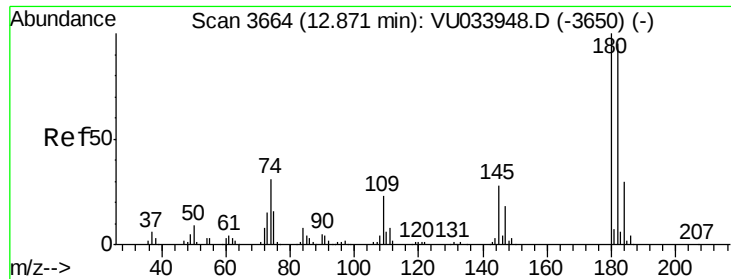


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

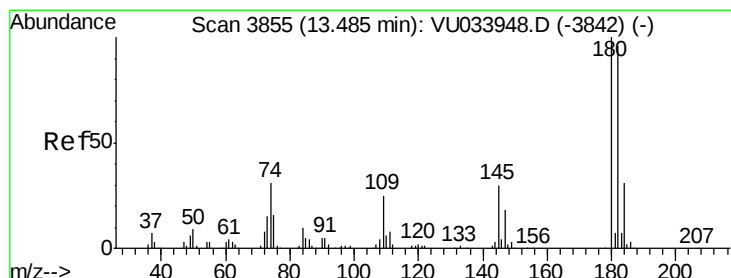
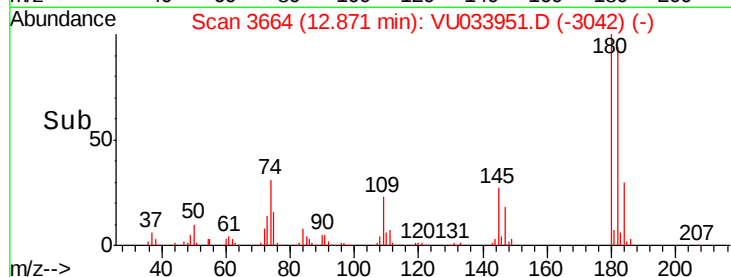
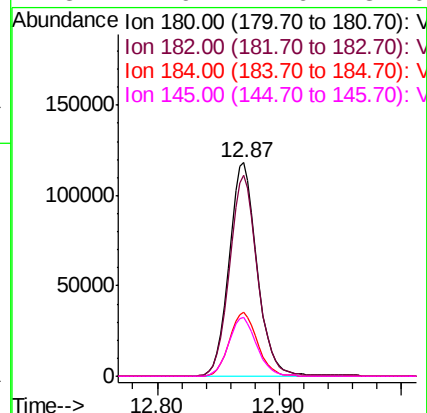
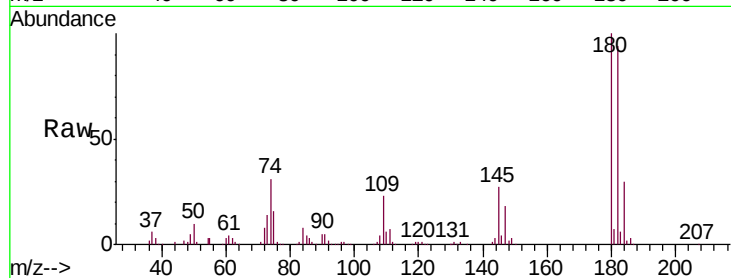




#67  
 1,3,5-Trichlorobenzene  
 Concen: 5.517 ug/L  
 RT: 12.87 min Scan# 3664  
 Delta R.T. 0.00 min  
 Lab File: VU033951.D  
 Acq: 26 Aug 2019 12:42

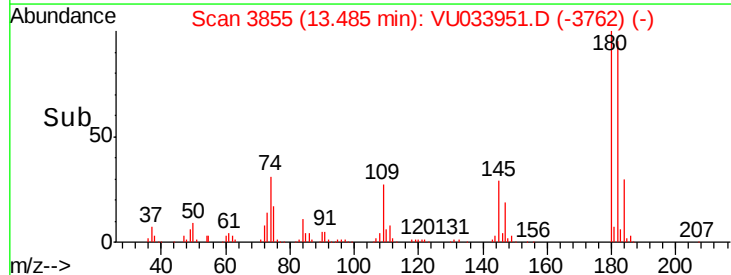
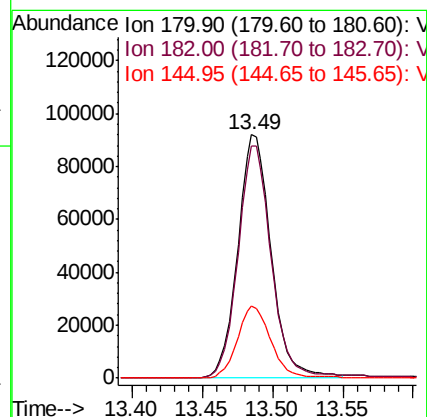
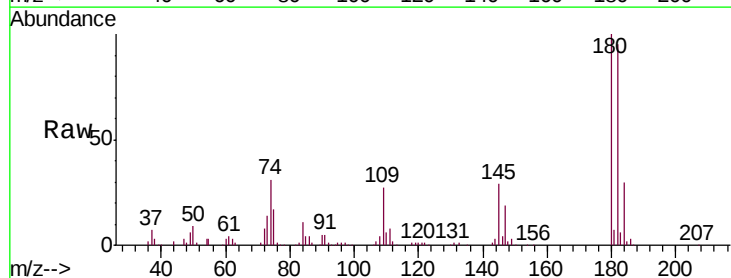
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VICV05

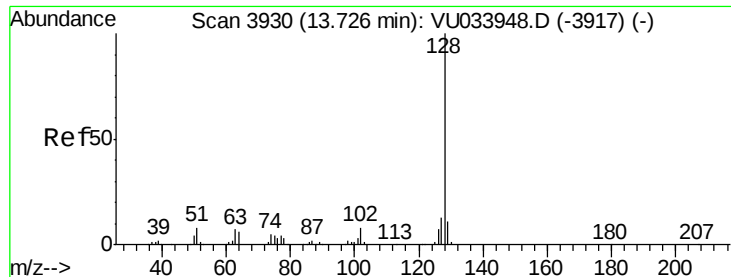
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 180   | Resp: | 189801 |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 94.5  | 76.9  | 115.3  |
| 184      | 30.3  | 24.0  | 36.0   |
| 145      | 27.9  | 22.6  | 34.0   |



#68  
 1,2,4-trichlorobenzene  
 Concen: 5.948 ug/L  
 RT: 13.49 min Scan# 3855  
 Delta R.T. 0.00 min  
 Lab File: VU033951.D  
 Acq: 26 Aug 2019 12:42

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 180   | Resp: | 152613 |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 96.6  | 76.4  | 114.6  |
| 145      | 29.8  | 23.4  | 35.2   |





#69

Naphthalene

Concen: 6.721 ug/L

RT: 13.73 min Scan# 3930

Delta R.T. 0.00 min

Lab File: VU033951.D

Acq: 26 Aug 2019 12:42

Instrument :

MSVOA\_U

ClientSampleId :

VICV05

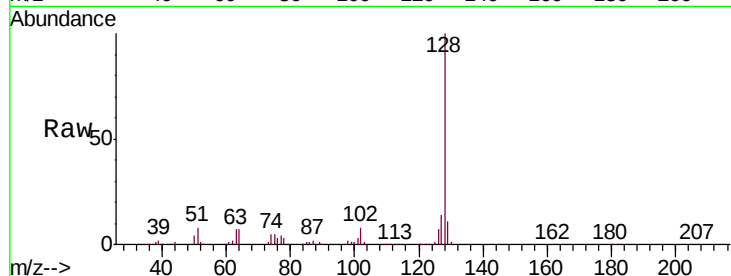
Tgt Ion:128 Resp: 267969

Ion Ratio Lower Upper

128 100

129 11.0 8.6 12.8

127 13.0 10.3 15.5



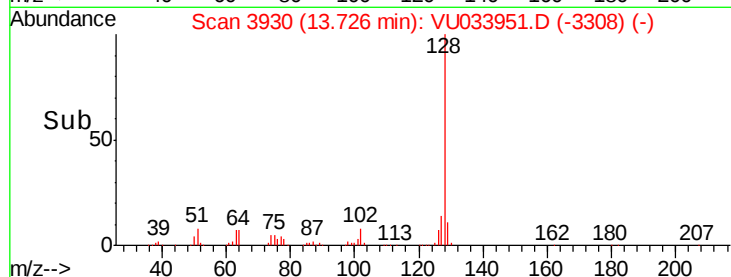
Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

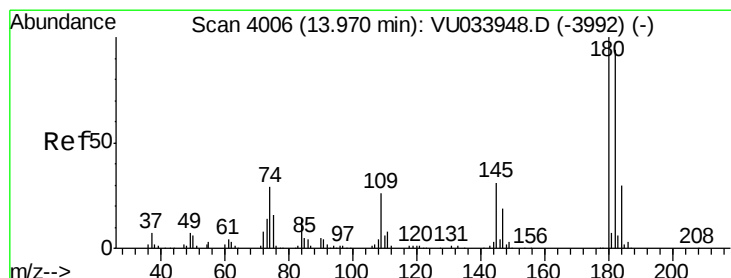
Ion 127.00 (126.70 to 127.70): V

13.73

13.70 13.80



Time-->



#70

1,2,3-Trichlorobenzene

Concen: 6.315 ug/L

RT: 13.97 min Scan# 4006

Delta R.T. 0.00 min

Lab File: VU033951.D

Acq: 26 Aug 2019 12:42

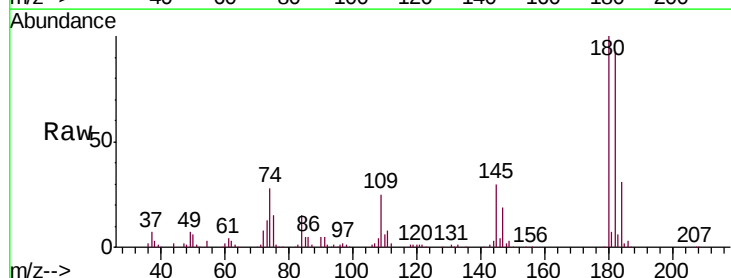
Tgt Ion:180 Resp: 156956

Ion Ratio Lower Upper

180 100

182 93.8 78.6 117.8

145 30.0 24.7 37.1



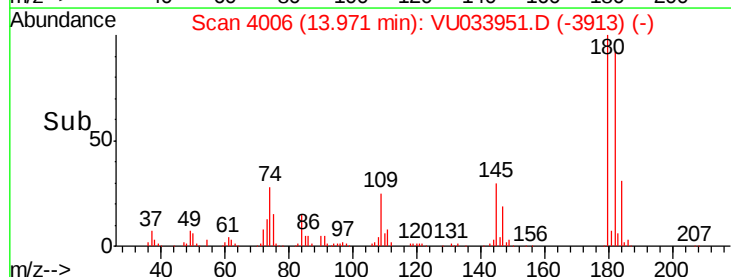
Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

13.97

13.90 14.00 14.10



Time-->