

Data File : VU034987.D  
Acq On : 08 Oct 2019 12:40  
Operator : JC/SP  
Sample : MDL05  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL05

Quant Time: Oct 09 07:21:37 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR100719WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Wed Oct 09 07:15:09 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.86  | 114  | 175785   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 175994   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.46 | 152  | 75090    | 5.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39   | 65    | 45758    | 4.40     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 88.00%  |
| 7) Chloroethane-d5             | 1.67   | 69    | 44258    | 4.56     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 91.20%  |
| 11) 1,1-Dichloroethene-d2      | 2.26   | 63    | 70962    | 3.24     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 64.80%  |
| 20) 2-Butanone-d5              | 4.19   | 46    | 153387   | 50.13    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 100.26% |
| 24) Chloroform-d               | 4.62   | 84    | 87858    | 4.52     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 90.40%  |
| 26) 1,2-Dichloroethane-d4      | 5.29   | 65    | 55879    | 4.80     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 96.00%  |
| 32) Benzene-d6                 | 5.32   | 84    | 191692   | 4.64     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 92.80%  |
| 36) 1,2-Dichloropropane-d6     | 6.31   | 67    | 65738    | 4.77     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 95.40%  |
| 41) Toluene-d8                 | 7.54   | 98    | 174621   | 4.37     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 87.40%  |
| 43) trans-1,3-Dichloropropene- | 7.84   | 79    | 19797    | 3.99     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 79.80%  |
| 46) 2-Hexanone-d5              | 8.30   | 63    | 112691   | 47.72    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 95.44%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.41  | 84    | 56740    | 4.88     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 97.60%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.84  | 152   | 64711    | 5.11     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 102.20% |

#### Target Compounds

|                                |      |     |       |              | Qvalue |
|--------------------------------|------|-----|-------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.20 | 85  | 4521  | 0.281 ug/L   | 95     |
| 3) Chloromethane               | 1.32 | 50  | 5399  | 0.306 ug/L   | 91     |
| 5) Vinyl chloride              | 1.40 | 62  | 5203  | 0.301 ug/L   | 86     |
| 6) Bromomethane                | 1.62 | 94  | 2671  | 0.278 ug/L   | 99     |
| 8) Chloroethane                | 1.69 | 64  | 2748  | 0.265 ug/L   | 98     |
| 9) Trichlorofluoromethane      | 1.87 | 101 | 6140  | 0.293 ug/L   | 93     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.27 | 101 | 3718  | 0.309 ug/L   | 91     |
| 12) 1,1-Dichloroethene         | 2.27 | 96  | 3357  | 0.297 ug/L # | 1      |
| 13) Acetone                    | 2.33 | 43  | 7705  | 3.074 ug/L   | 98     |
| 14) Carbon disulfide           | 2.46 | 76  | 10062 | 0.268 ug/L   | 99     |
| 15) Methyl Acetate             | 2.62 | 43  | 1692  | 0.254 ug/L # | 73     |
| 16) Methylene chloride         | 2.69 | 84  | 5797  | 0.415 ug/L   | 81     |
| 17) Methyl tert-butyl Ether    | 2.99 | 73  | 8950  | 0.291 ug/L   | 96     |
| 18) trans-1,2-Dichloroethene   | 2.96 | 96  | 3531  | 0.292 ug/L   | 88     |
| 19) 1,1-Dichloroethane         | 3.42 | 63  | 6385  | 0.266 ug/L   | 94     |
| 21) 2-Butanone                 | 4.28 | 43  | 8036  | 2.252 ug/L   | 100    |
| 22) cis-1,2-Dichloroethene     | 4.20 | 96  | 3245  | 0.241 ug/L   | 90     |

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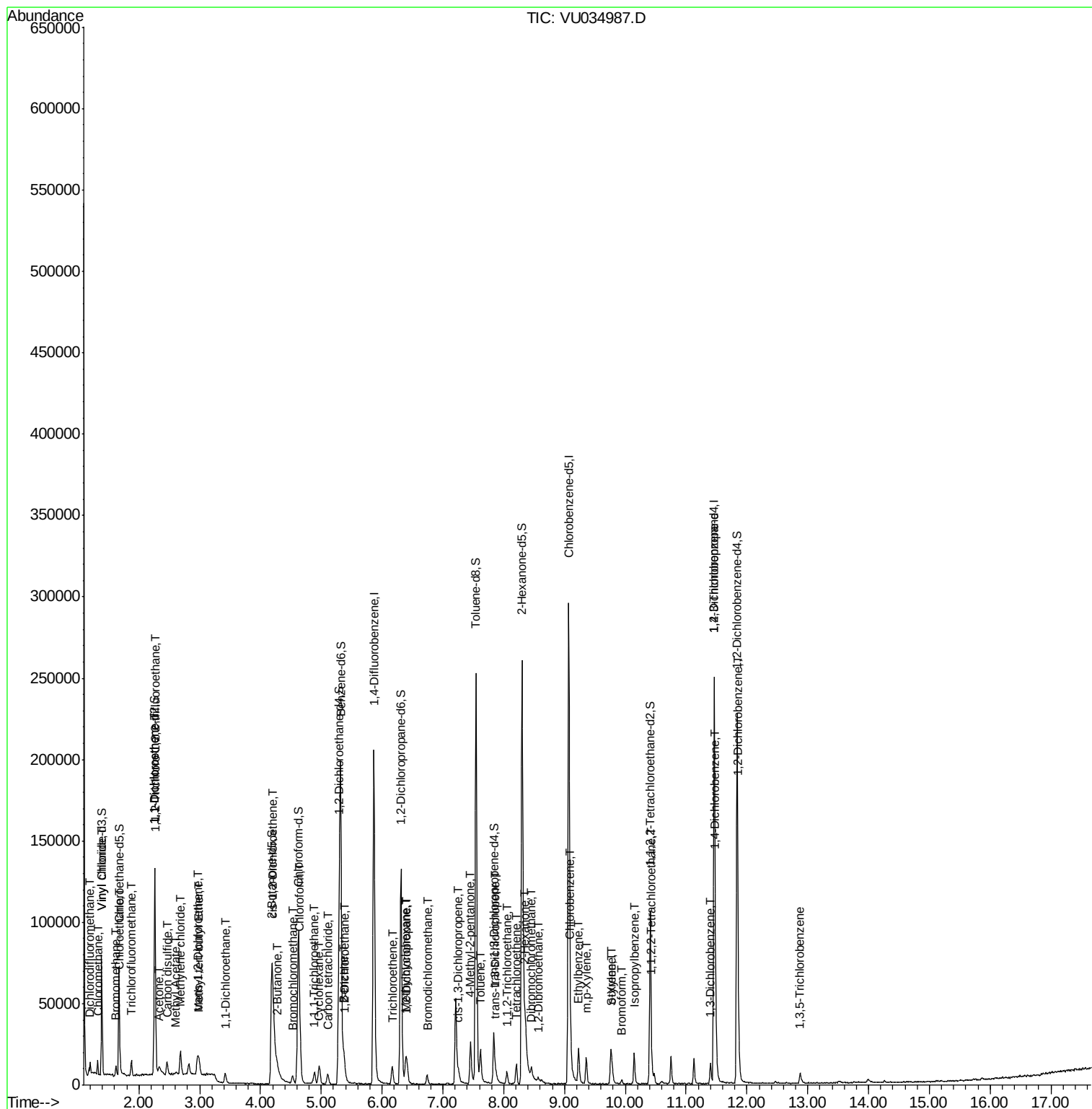
| Internal Standards            | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|-------|--------|----------|
| 23) Bromochloromethane        | 4.52  | 128  | 1283     | 0.227 | ug/L   | 92       |
| 25) Chloroform                | 4.65  | 83   | 19891    | 0.737 | ug/L   | 96       |
| 27) 1,2-Dichloroethane        | 5.39  | 62   | 4554     | 0.289 | ug/L   | 95       |
| 29) 1,1,1-Trichloroethane     | 4.89  | 97   | 5133     | 0.260 | ug/L # | 84       |
| 30) Cyclohexane               | 4.96  | 56   | 5319     | 0.245 | ug/L   | 98       |
| 31) Carbon tetrachloride      | 5.10  | 117  | 4322     | 0.252 | ug/L   | 100      |
| 33) Benzene                   | 5.37  | 78   | 14658    | 0.276 | ug/L   | 100      |
| 34) Trichloroethene           | 6.17  | 95   | 3762     | 0.275 | ug/L   | 88       |
| 35) Methylcyclohexane         | 6.39  | 83   | 5766     | 0.260 | ug/L   | 94       |
| 37) 1,2-Dichloropropane       | 6.41  | 63   | 3621     | 0.253 | ug/L # | 92       |
| 38) Bromodichloromethane      | 6.74  | 83   | 4618     | 0.275 | ug/L   | 94       |
| 39) cis-1,3-Dichloropropene   | 7.25  | 75   | 4276     | 0.221 | ug/L   | 90       |
| 40) 4-Methyl-2-pentanone      | 7.45  | 43   | 21513    | 2.390 | ug/L # | 84       |
| 42) Toluene                   | 7.62  | 91   | 14319    | 0.259 | ug/L   | 97       |
| 44) trans-1,3-Dichloropropene | 7.87  | 75   | 3526     | 0.235 | ug/L   | 93       |
| 45) 1,1,2-Trichloroethane     | 8.05  | 97   | 2921     | 0.308 | ug/L   | 80       |
| 47) Tetrachloroethene         | 8.21  | 164  | 3001     | 0.271 | ug/L   | 78       |
| 48) 2-Hexanone                | 8.35  | 43   | 19741    | 3.199 | ug/L   | 93       |
| 49) Dibromochloromethane      | 8.46  | 129  | 2712     | 0.247 | ug/L   | 89       |
| 50) 1,2-Dibromoethane         | 8.57  | 107  | 2244     | 0.247 | ug/L # | 89       |
| 51) Chlorobenzene             | 9.10  | 112  | 9183     | 0.256 | ug/L # | 81       |
| 52) Ethylbenzene              | 9.23  | 91   | 16047    | 0.263 | ug/L   | 100      |
| 53) m,p-Xylene                | 9.36  | 106  | 5078     | 0.225 | ug/L   | 90       |
| 54) o-Xylene                  | 9.76  | 106  | 4922     | 0.223 | ug/L   | 75       |
| 55) Styrene                   | 9.78  | 104  | 7549     | 0.211 | ug/L   | 93       |
| 56) Isopropylbenzene          | 10.15 | 105  | 13242    | 0.225 | ug/L   | 98       |
| 58) 1,1,2,2-Tetrachloroethane | 10.44 | 83   | 3632     | 0.281 | ug/L # | 98       |
| 59) 1,2,3-Trichloropropane    | 11.47 | 75   | 11754    | 1.270 | ug/L   | 93       |
| 61) Bromoform                 | 9.94  | 173  | 1473     | 0.286 | ug/L # | 88       |
| 62) 1,3-Dichlorobenzene       | 11.40 | 146  | 6627     | 0.286 | ug/L   | 97       |
| 63) 1,4-Dichlorobenzene       | 11.49 | 146  | 6823     | 0.292 | ug/L   | 99       |
| 65) 1,2-Dichlorobenzene       | 11.86 | 146  | 6717     | 0.301 | ug/L   | 93       |
| 67) 1,3,5-Trichlorobenzene    | 12.87 | 180  | 3294     | 0.210 | ug/L # | 94       |

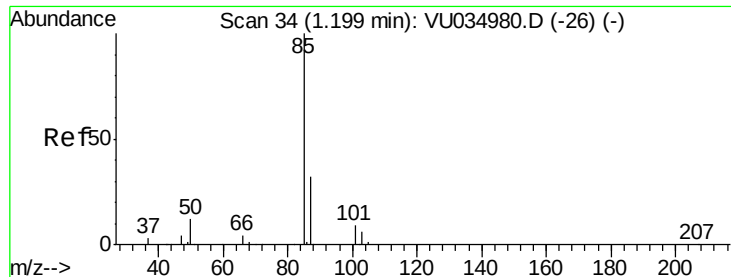
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 0.281 ug/L

RT: 1.20 min Scan# 34

Delta R.T. 0.00 min

Lab File: VU034987.D

Acq: 08 Oct 2019 12:40

Instrument :

MSVOA\_U

ClientSampleId :

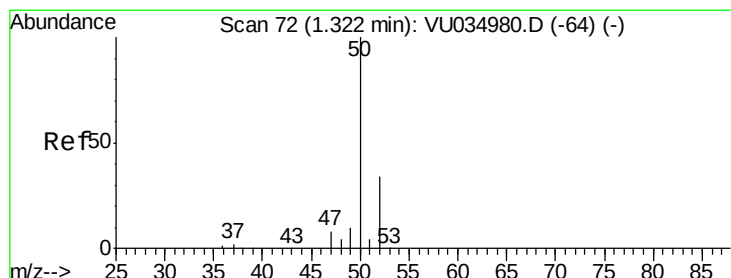
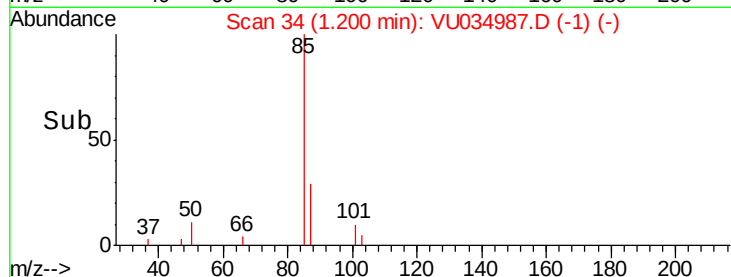
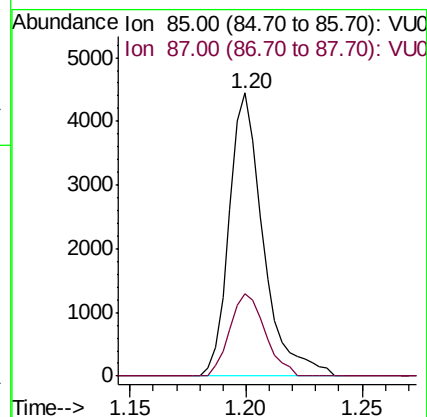
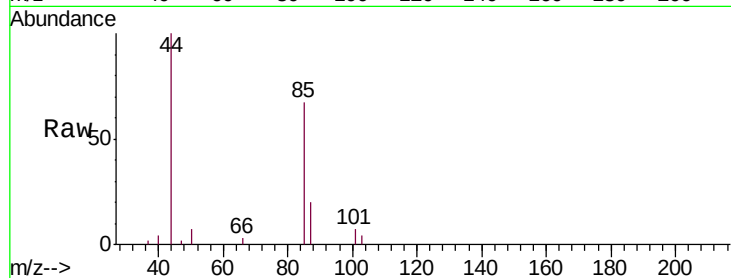
MDL05

Tgt Ion: 85 Resp: 4521

Ion Ratio Lower Upper

85 100

87 30.0 26.3 39.5



#3

Chloromethane

Concen: 0.306 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU034987.D

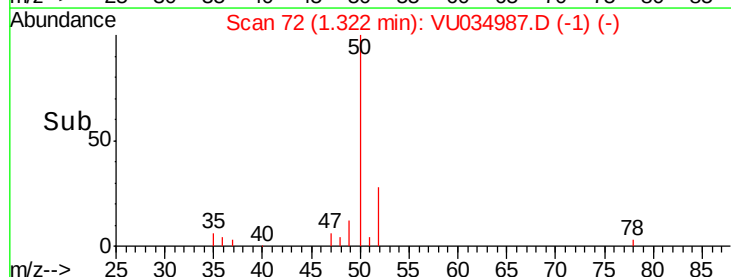
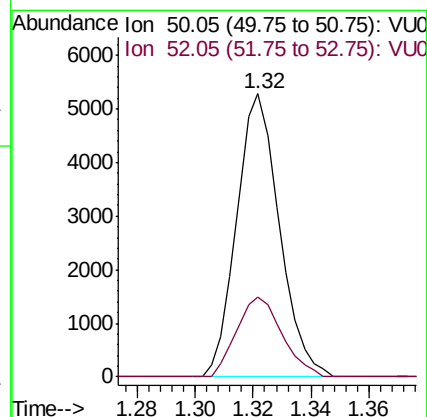
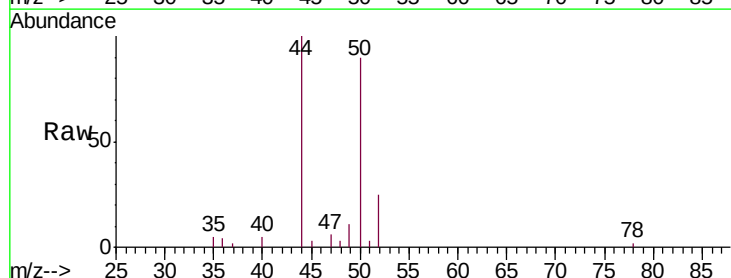
Acq: 08 Oct 2019 12:40

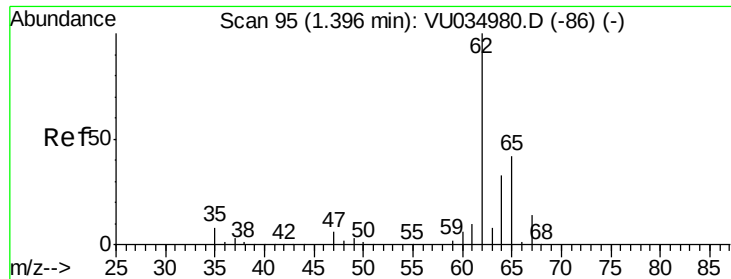
Tgt Ion: 50 Resp: 5399

Ion Ratio Lower Upper

50 100

52 28.2 23.3 43.3





#5

Vinyl chloride

Concen: 0.301 ug/L

RT: 1.40 min Scan# 95

Delta R.T. 0.00 min

Lab File: VU034987.D

Acq: 08 Oct 2019 12:40

Instrument :

MSVOA\_U

ClientSampleId :

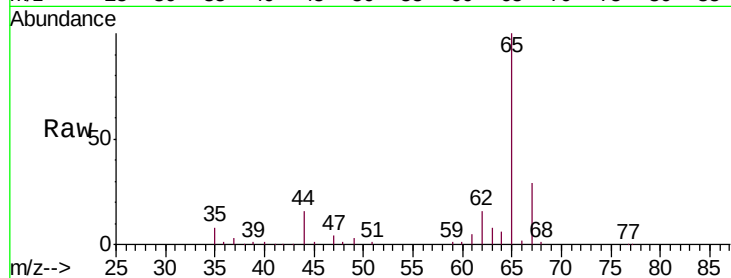
MDL05

Tgt Ion: 62 Resp: 5203

Ion Ratio Lower Upper

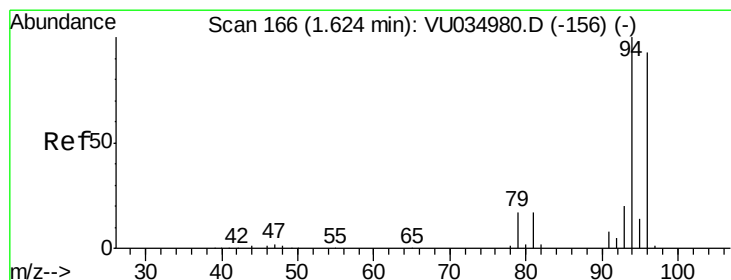
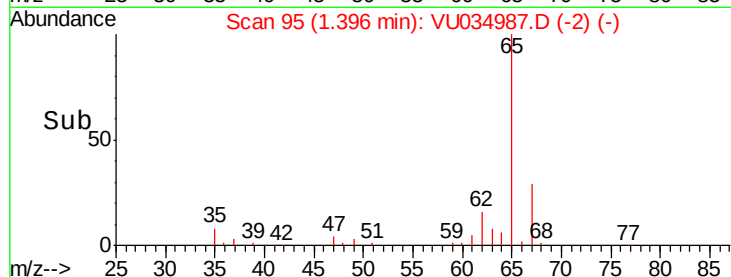
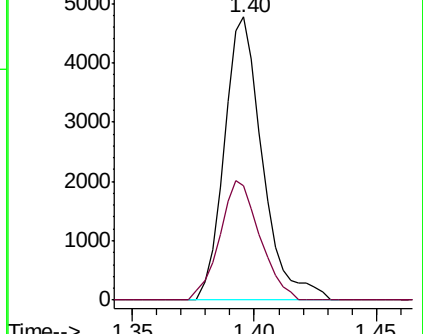
62 100

64 40.2 22.8 42.4



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#6

Bromomethane

Concen: 0.278 ug/L

RT: 1.62 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU034987.D

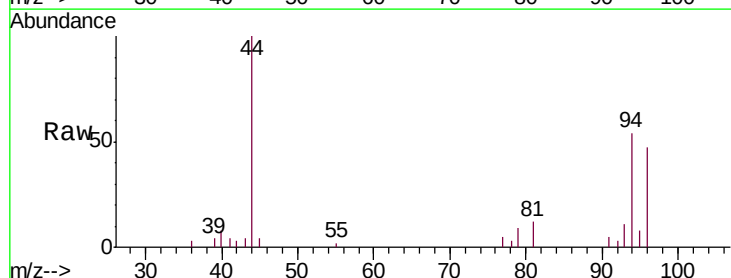
Acq: 08 Oct 2019 12:40

Tgt Ion: 94 Resp: 2671

Ion Ratio Lower Upper

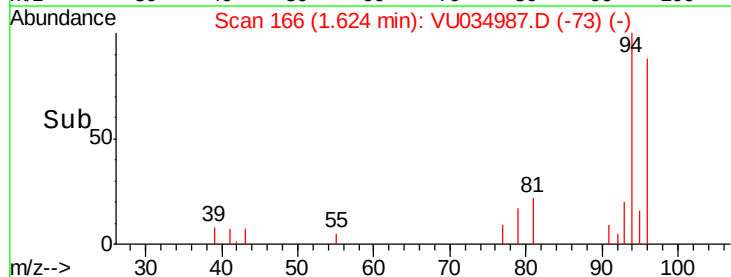
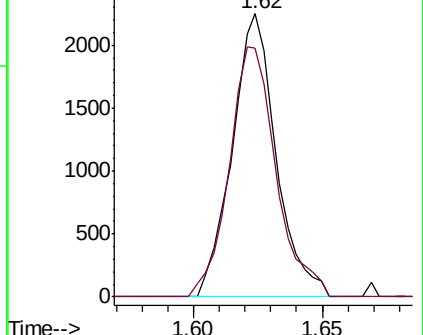
94 100

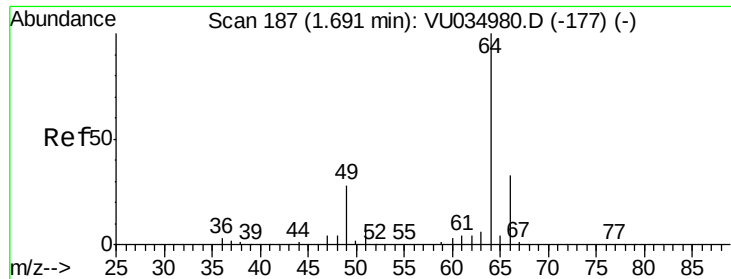
96 87.8 62.4 116.0



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 0.265 ug/L

RT: 1.69 min Scan# 187

Delta R.T. 0.00 min

Lab File: VU034987.D

Acq: 08 Oct 2019 12:40

Instrument :

MSVOA\_U

ClientSampleId :

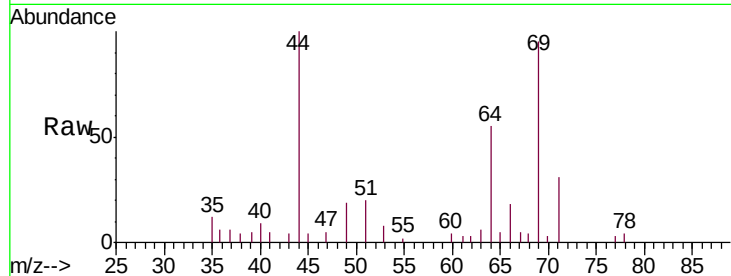
MDL05

Tgt Ion: 64 Resp: 2748

Ion Ratio Lower Upper

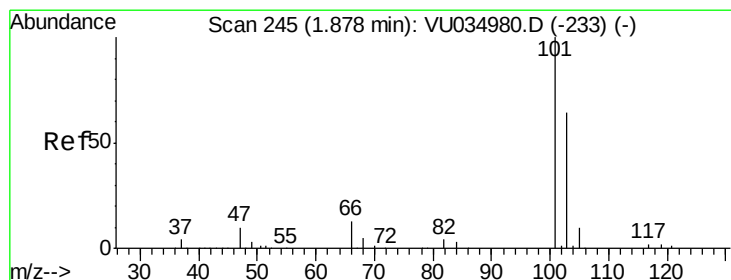
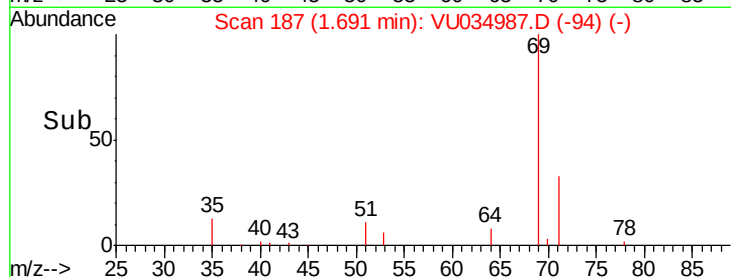
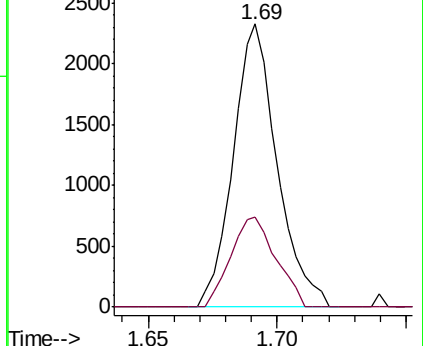
64 100

66 32.0 23.2 43.2



Abundance Ion 64.10 (63.80 to 64.80): VU034980.D (-177) (-)

Ion 66.05 (65.75 to 66.75): VU034980.D (-177) (-)



#9

Trichlorofluoromethane

Concen: 0.293 ug/L

RT: 1.87 min Scan# 244

Delta R.T. -0.00 min

Lab File: VU034987.D

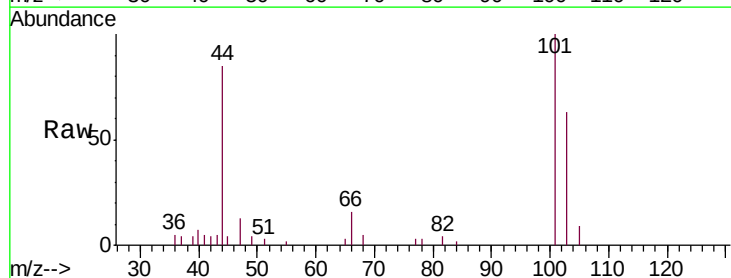
Acq: 08 Oct 2019 12:40

Tgt Ion: 101 Resp: 6140

Ion Ratio Lower Upper

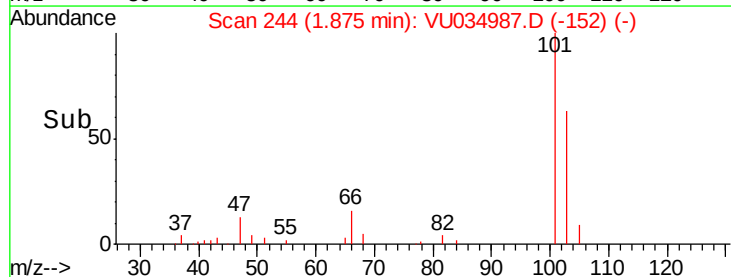
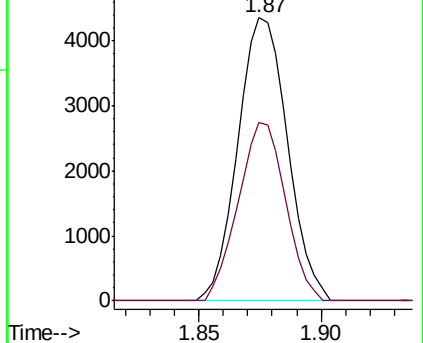
101 100

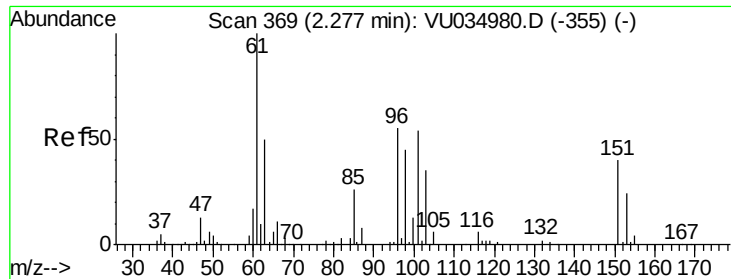
103 59.9 52.2 78.4



Abundance Ion 101.00 (100.70 to 101.70): VU034980.D (-233) (-)

Ion 103.00 (102.70 to 103.70): VU034980.D (-233) (-)





#10

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

Concen: 0.309 ug/L

RT: 2.27 min Scan# 368

Delta R.T. -0.00 min

Lab File: VU034987.D

Acq: 08 Oct 2019 12:40

Instrument :

MSVOA\_U

ClientSampled :

MDL05

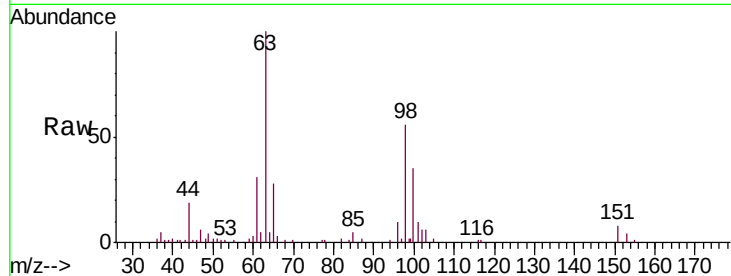
Tgt Ion:101 Resp: 3718

Ion Ratio Lower Upper

101 100

85 43.0 37.4 56.0

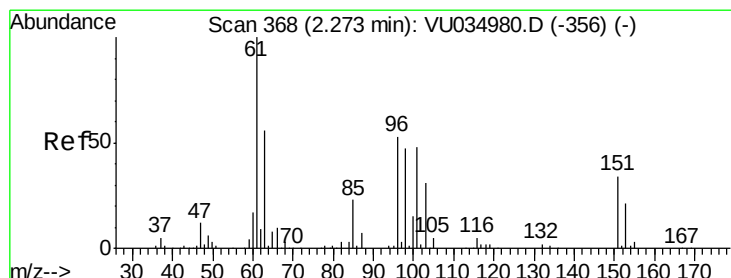
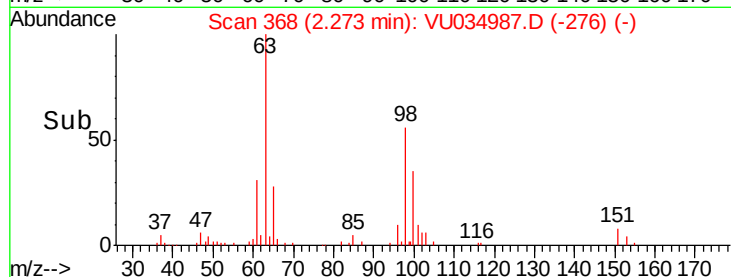
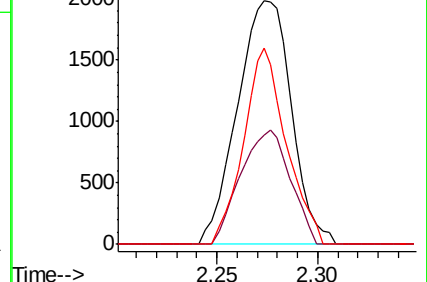
151 63.4 58.6 87.8



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: 0.297 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU034987.D

Acq: 08 Oct 2019 12:40

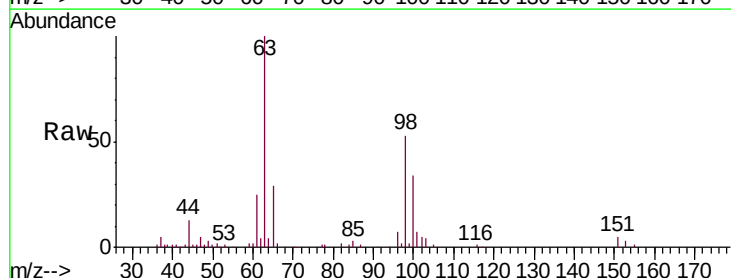
Tgt Ion: 96 Resp: 3357

Ion Ratio Lower Upper

96 100

61 361.0 129.3 240.1#

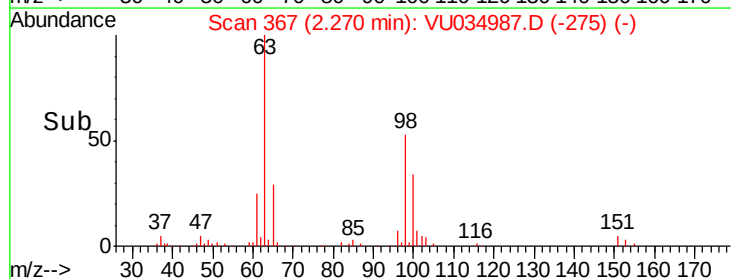
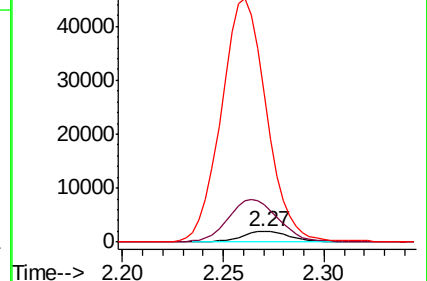
63 1421.4 108.9 202.3#

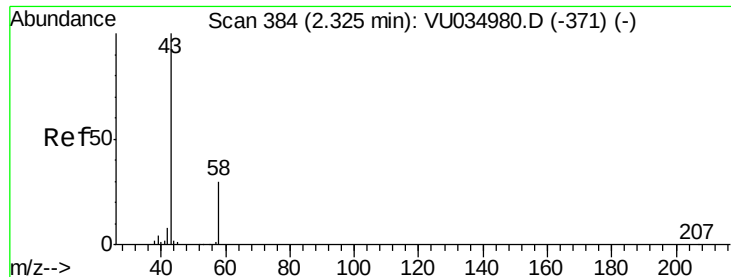


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 3.074 ug/L

RT: 2.33 min Scan# 387

Delta R.T. 0.01 min

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Acq: 08 Oct 2019 12:40

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MSVOA\_U

ClientSampleId :

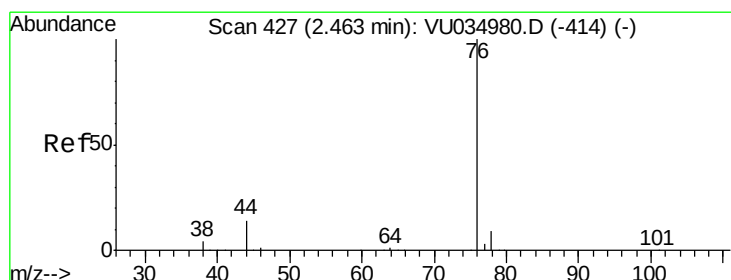
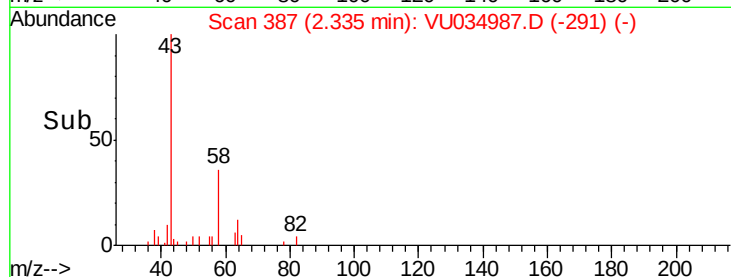
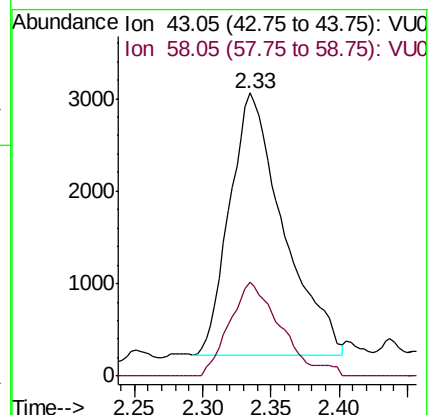
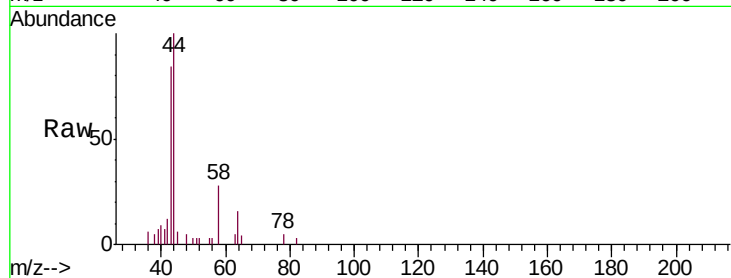
MDL05

Tgt Ion: 43 Resp: 7705

Ion Ratio Lower Upper

43 100

58 34.7 0.0 66.6



#14

Carbon disulfide

Concen: 0.268 ug/L

RT: 2.46 min Scan# 427

Delta R.T. 0.00 min

Lab File: VU034987.D

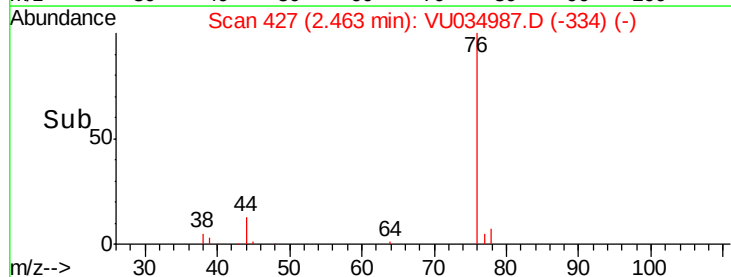
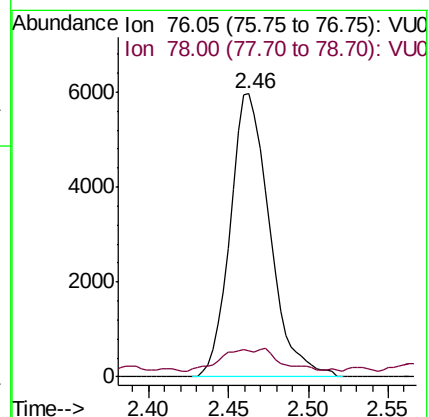
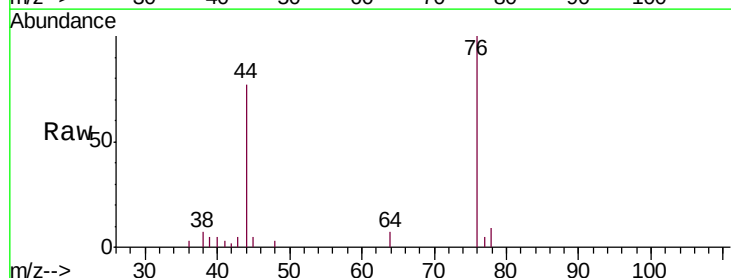
Acq: 08 Oct 2019 12:40

Tgt Ion: 76 Resp: 10062

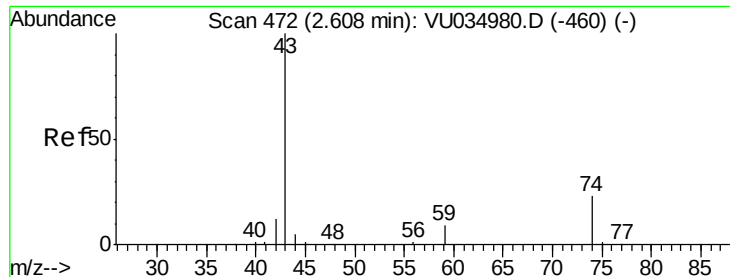
Ion Ratio Lower Upper

76 100

78 9.4 7.1 10.7



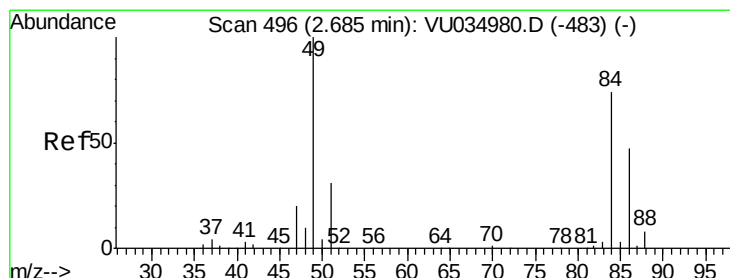
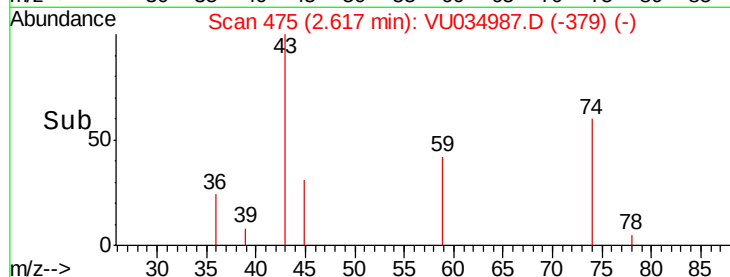
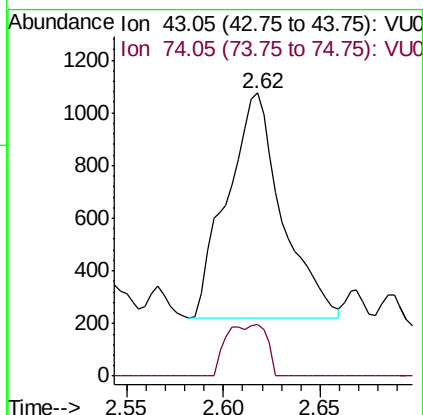
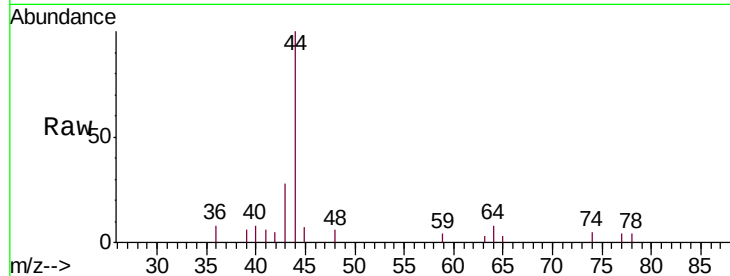




#15  
Methyl Acetate  
Concen: 0.254 ug/L  
RT: 2.62 min Scan# 475  
Delta R.T. 0.01 min  
Lab File: VU034987.D  
Acq: 08 Oct 2019 12:40

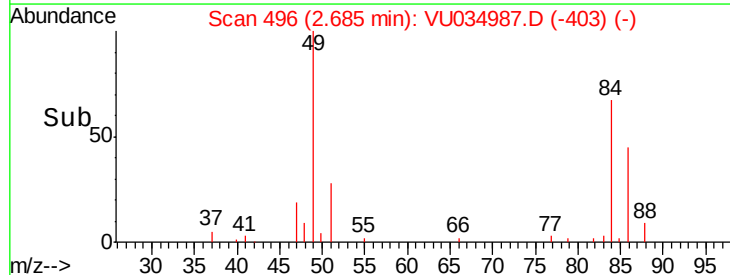
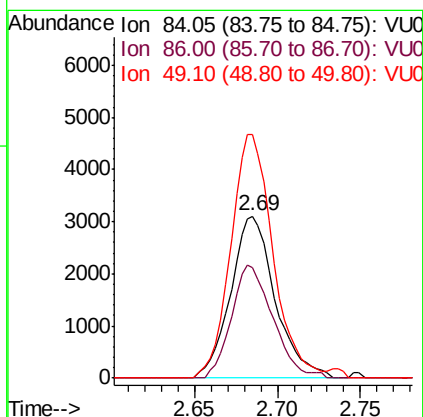
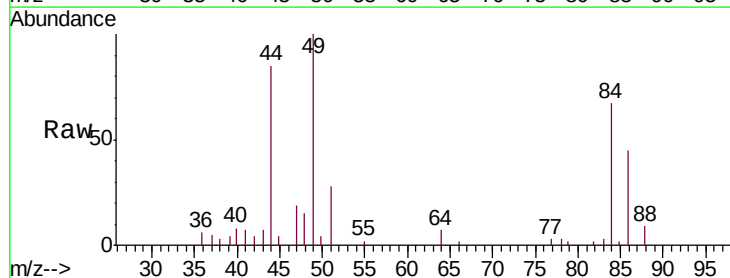
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL05

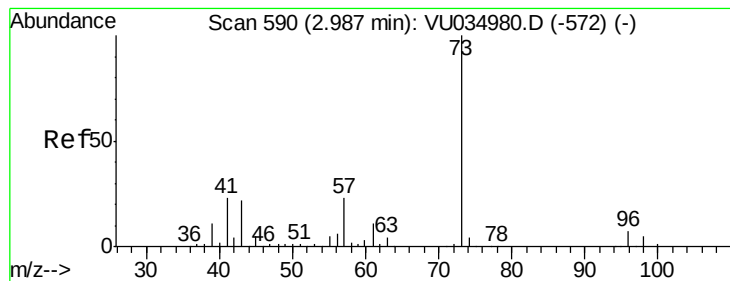
Tgt Ion: 43 Resp: 1692  
Ion Ratio Lower Upper  
43 100  
74 9.2 17.8 26.8#



#16  
Methylene chloride  
Concen: 0.415 ug/L  
RT: 2.69 min Scan# 496  
Delta R.T. 0.00 min  
Lab File: VU034987.D  
Acq: 08 Oct 2019 12:40

Tgt Ion: 84 Resp: 5797  
Ion Ratio Lower Upper  
84 100  
86 68.0 42.5 78.9  
49 150.2 86.9 161.3





#17

Methyl tert-butyl Ether

Concen: 0.291 ug/L

RT: 2.99 min Scan# 591

Delta R.T. 0.00 min

Lab File: VU034987.D

Acq: 08 Oct 2019 12:40

Instrument :

MSVOA\_U

ClientSampled :

MDL05

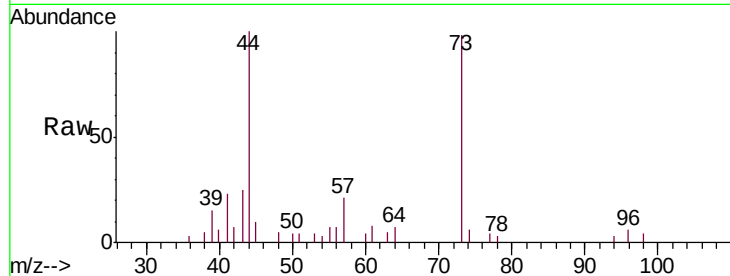
Tgt Ion: 73 Resp: 8950

Ion Ratio Lower Upper

73 100

43 24.2 16.3 24.5

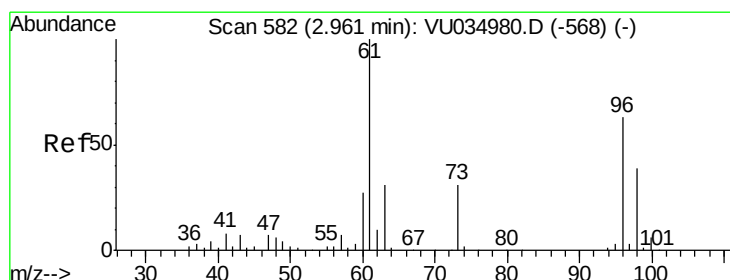
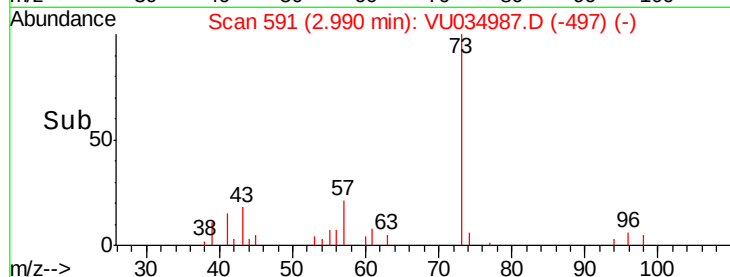
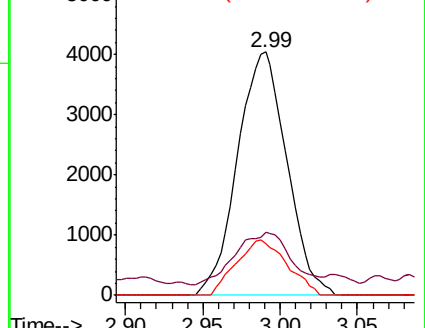
57 23.5 18.6 28.0



Abundance Ion 73.10 (72.80 to 73.80): VU034987.D (-590) (-)

Ion 43.05 (42.75 to 43.75): VU034987.D (-590) (-)

Ion 57.10 (56.80 to 57.80): VU034987.D (-590) (-)



#18

trans-1,2-Dichloroethene

Concen: 0.292 ug/L

RT: 2.96 min Scan# 582

Delta R.T. 0.00 min

Lab File: VU034987.D

Acq: 08 Oct 2019 12:40

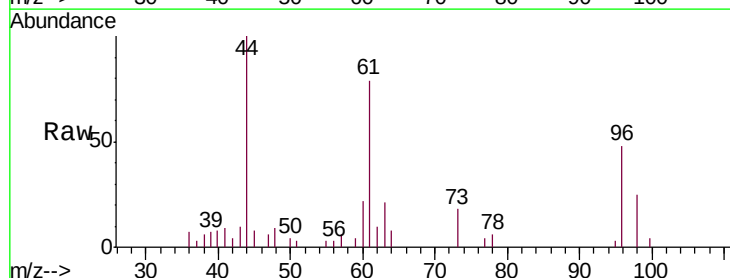
Tgt Ion: 96 Resp: 3531

Ion Ratio Lower Upper

96 100

61 166.0 107.1 198.9

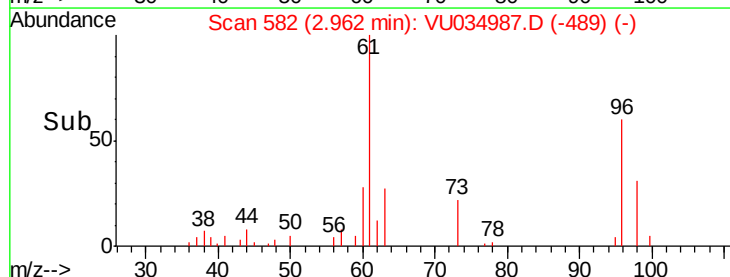
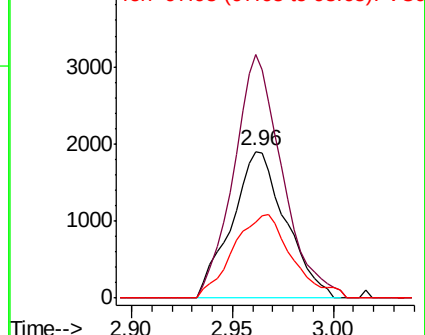
98 51.8 45.4 84.4

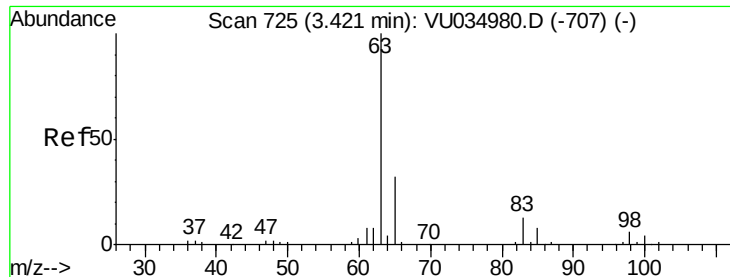


Abundance Ion 96.00 (95.70 to 96.70): VU034987.D (-582) (-)

Ion 61.05 (60.75 to 61.75): VU034987.D (-582) (-)

Ion 97.95 (97.65 to 98.65): VU034987.D (-582) (-)

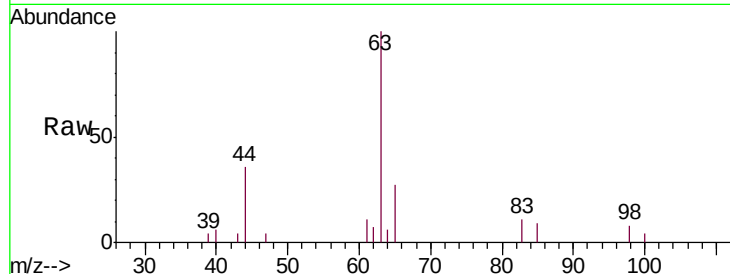




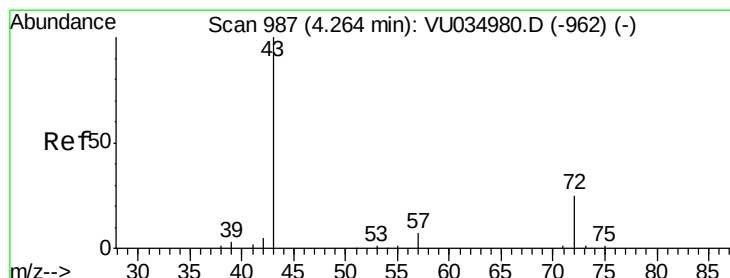
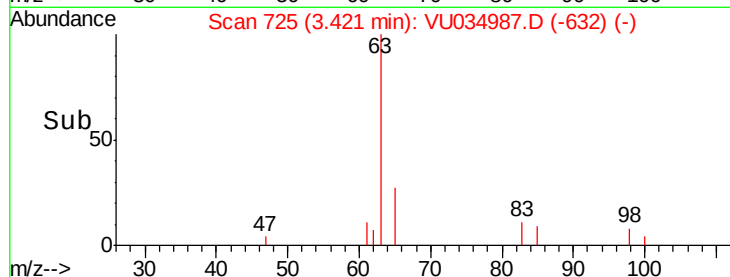
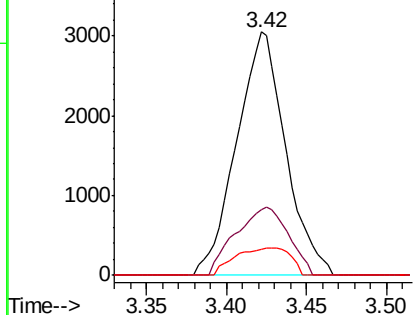
#19  
 1,1-Dichloroethane  
 Concen: 0.266 ug/L  
 RT: 3.42 min Scan# 725  
 Delta R.T. 0.00 min  
 Lab File: VU034987.D  
 Acq: 08 Oct 2019 12:40

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL05

Tgt Ion: 63 Resp: 6385  
 Ion Ratio Lower Upper  
 63 100  
 65 27.2 21.7 40.3  
 83 10.8 9.0 16.8

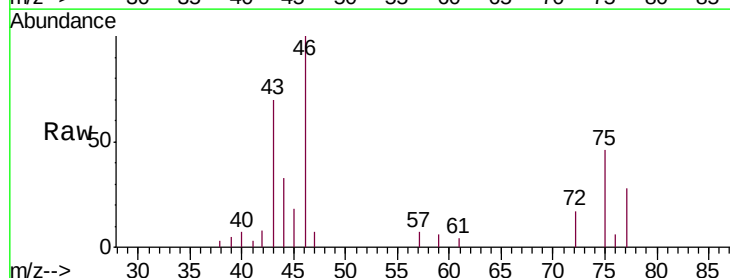


Abundance Ion 63.10 (62.80 to 63.80): VU0  
 Ion 65.10 (64.80 to 65.80): VU0  
 Ion 83.05 (82.75 to 83.75): VU0

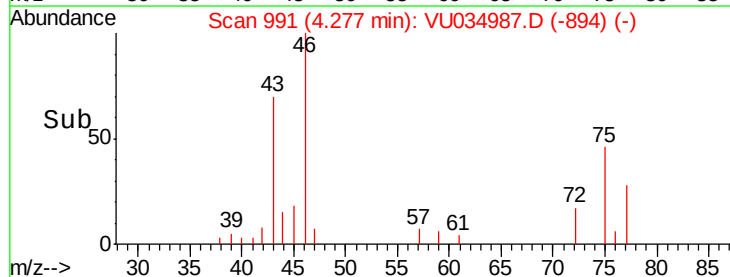
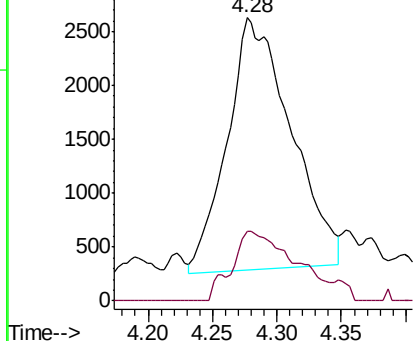


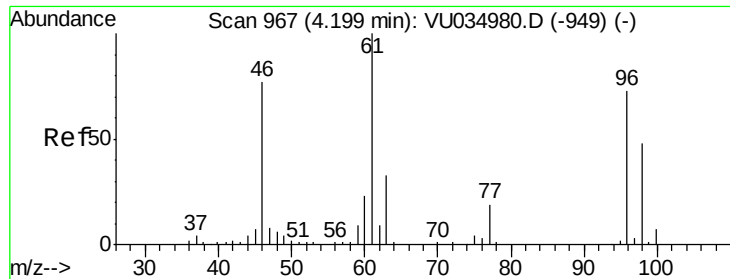
#21  
 2-Butanone  
 Concen: 2.252 ug/L  
 RT: 4.28 min Scan# 991  
 Delta R.T. 0.01 min  
 Lab File: VU034987.D  
 Acq: 08 Oct 2019 12:40

Tgt Ion: 43 Resp: 8036  
 Ion Ratio Lower Upper  
 43 100  
 72 27.1 13.5 40.4



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



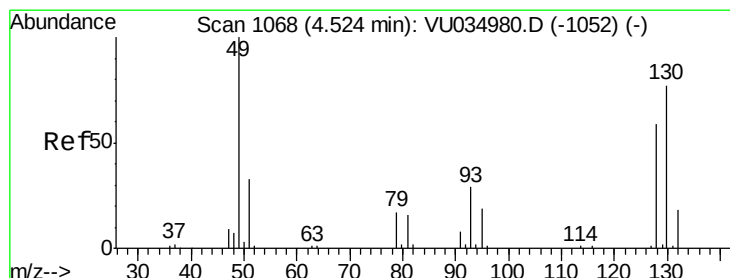
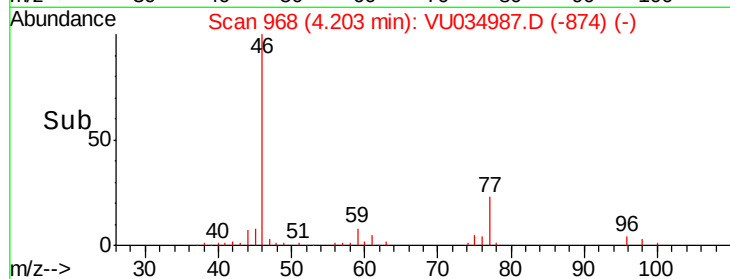
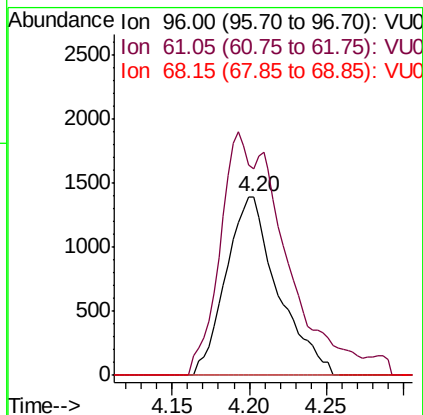
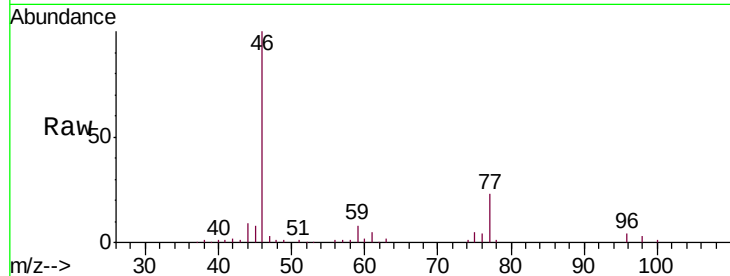


#22

cis-1,2-Dichloroethene  
 Concen: 0.241 ug/L  
 RT: 4.20 min Scan# 968  
 Delta R.T. 0.00 min  
 Lab File: VU034987.D  
 Acq: 08 Oct 2019 12:40

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL05

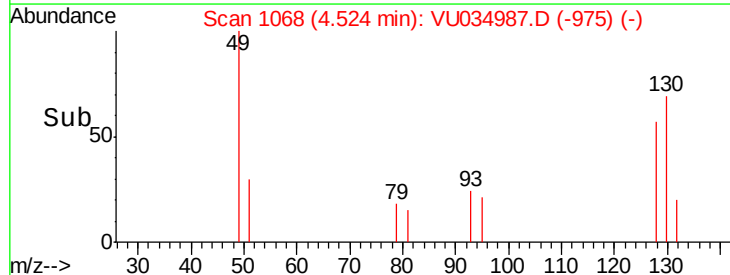
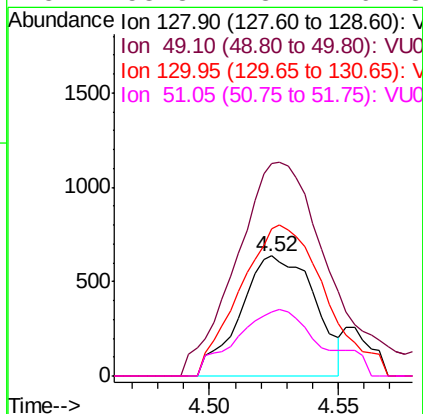
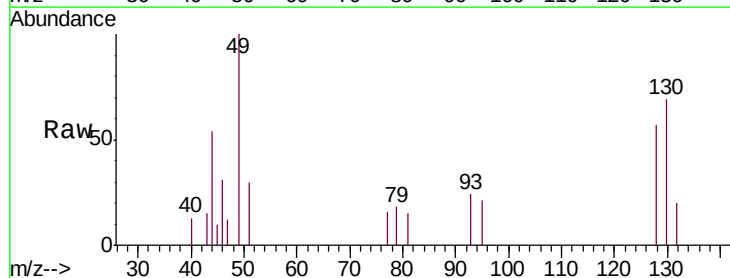
Tgt Ion: 96 Resp: 3245  
 Ion Ratio Lower Upper  
 96 100  
 61 116.2 89.2 165.6  
 68 0.0 0.0 0.0

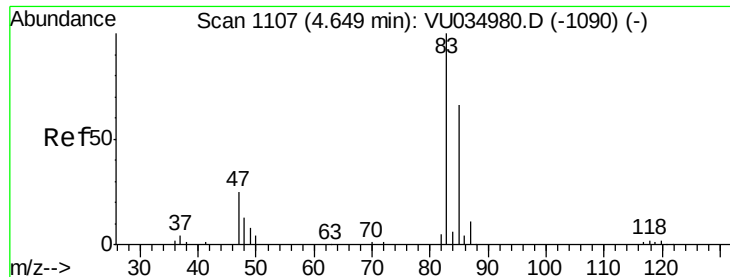


#23

Bromochloromethane  
 Concen: 0.227 ug/L  
 RT: 4.52 min Scan# 1068  
 Delta R.T. 0.00 min  
 Lab File: VU034987.D  
 Acq: 08 Oct 2019 12:40

Tgt Ion: 128 Resp: 1283  
 Ion Ratio Lower Upper  
 128 100  
 49 176.7 110.5 205.3  
 130 122.8 88.6 164.6  
 51 53.8 43.2 64.8

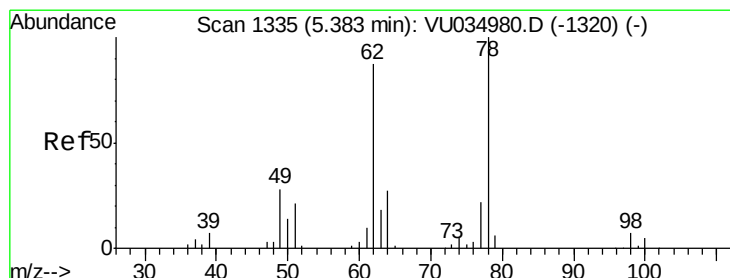
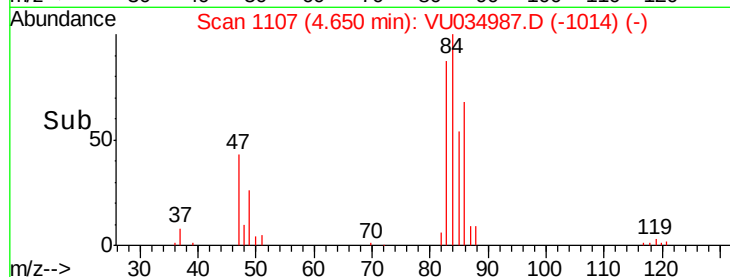
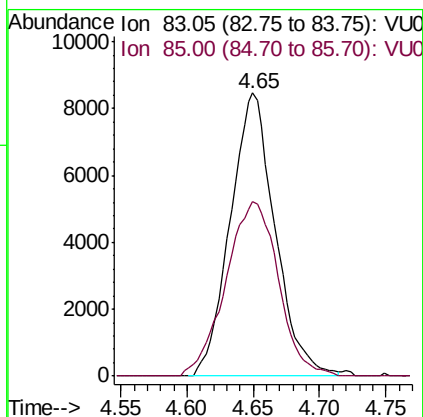
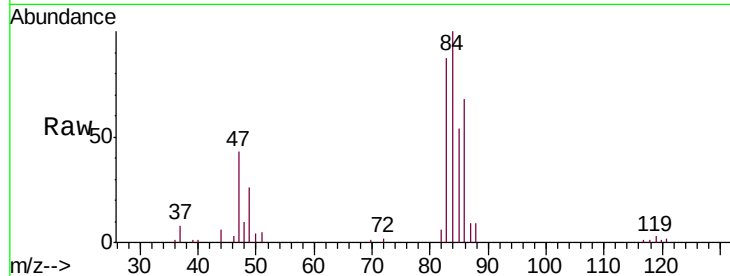




#25  
Chloroform  
Concen: 0.737 ug/L  
RT: 4.65 min Scan# 1107  
Delta R.T. 0.00 min  
Lab File: VU034987.D  
Acq: 08 Oct 2019 12:40

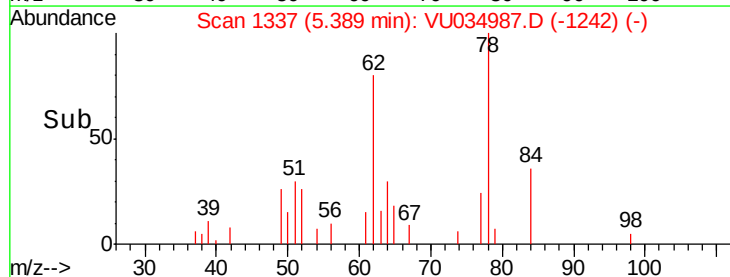
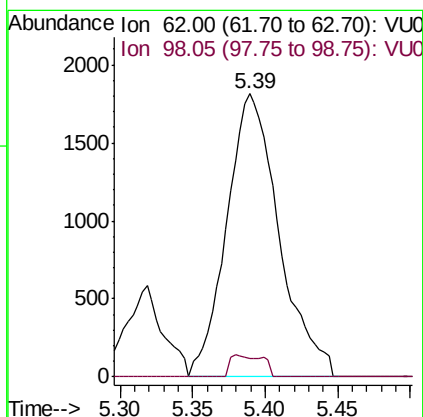
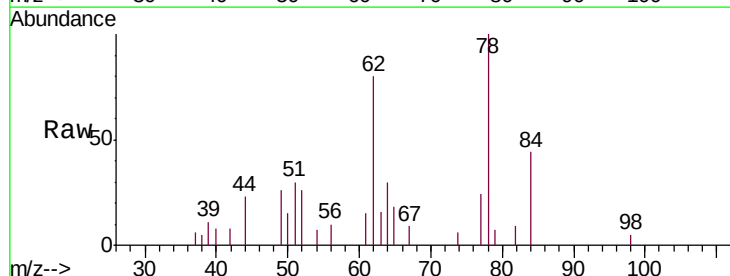
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL05

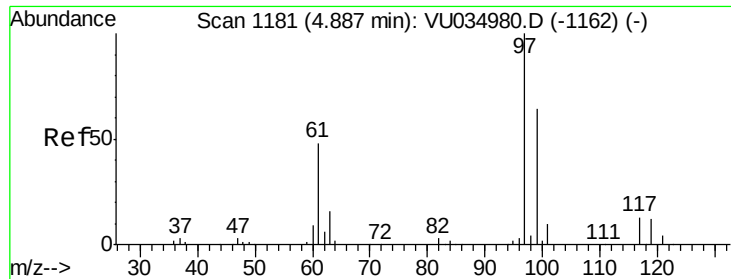
Tgt Ion: 83 Resp: 19891  
Ion Ratio Lower Upper  
83 100  
85 61.5 45.4 84.4



#27  
1,2-Dichloroethane  
Concen: 0.289 ug/L  
RT: 5.39 min Scan# 1337  
Delta R.T. 0.01 min  
Lab File: VU034987.D  
Acq: 08 Oct 2019 12:40

Tgt Ion: 62 Resp: 4554  
Ion Ratio Lower Upper  
62 100  
98 6.7 6.6 10.0

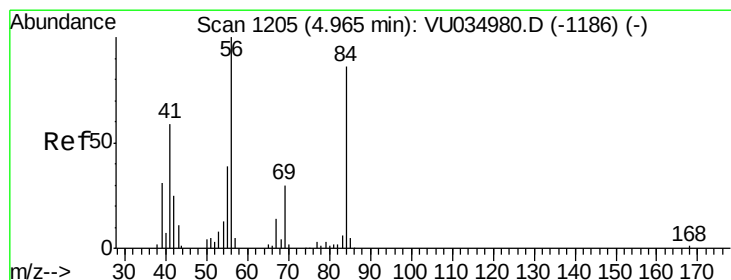
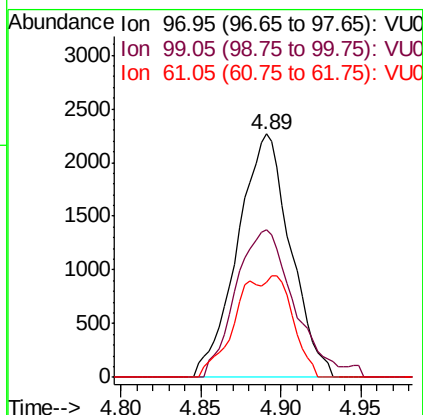
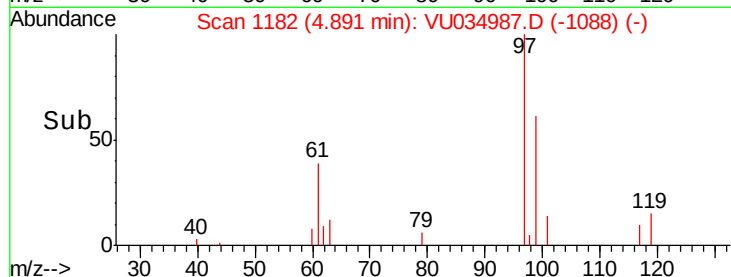
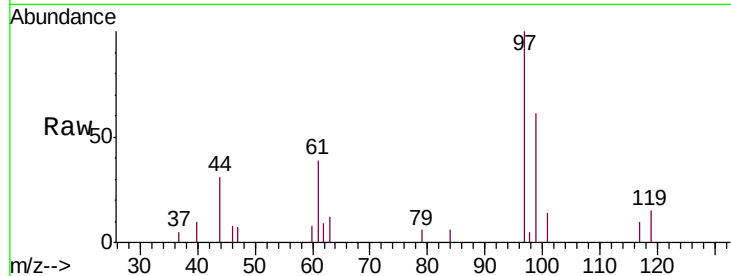




#29  
 1,1,1-Trichloroethane  
 Concen: 0.260 ug/L  
 RT: 4.89 min Scan# 1182  
 Delta R.T. 0.00 min  
 Lab File: VU034987.D  
 Acq: 08 Oct 2019 12:40

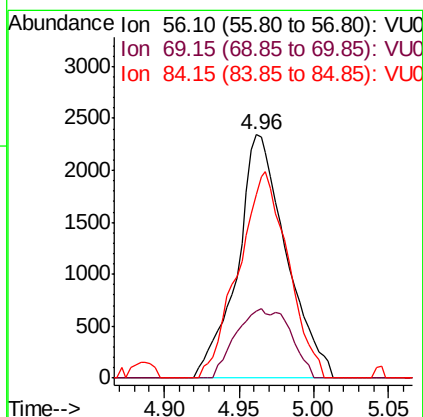
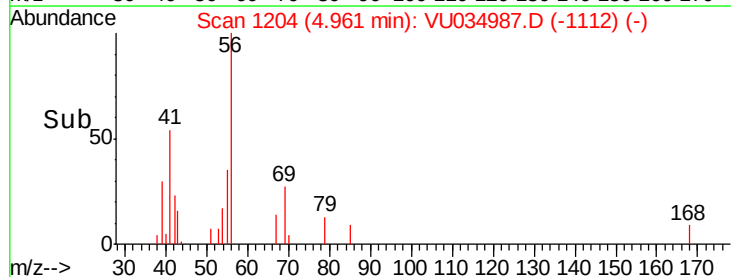
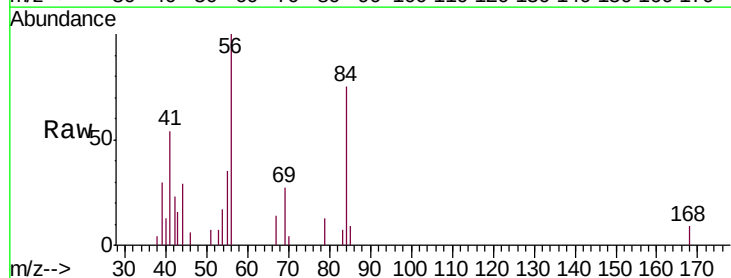
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL05

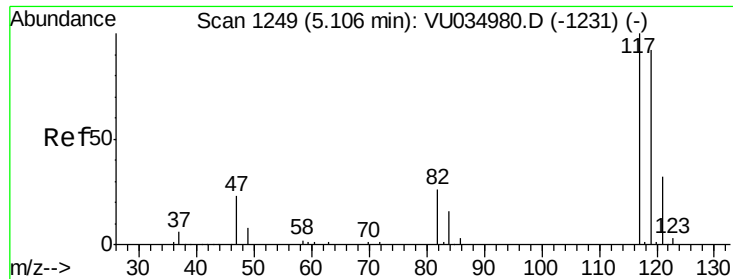
Tgt Ion: 97 Resp: 5133  
 Ion Ratio Lower Upper  
 97 100  
 99 66.6 51.6 77.4  
 61 22.6 36.2 54.4#



#30  
 Cyclohexane  
 Concen: 0.245 ug/L  
 RT: 4.96 min Scan# 1204  
 Delta R.T. -0.00 min  
 Lab File: VU034987.D  
 Acq: 08 Oct 2019 12:40

Tgt Ion: 56 Resp: 5319  
 Ion Ratio Lower Upper  
 56 100  
 69 31.8 23.9 35.9  
 84 86.1 69.5 104.3





#31

Carbon tetrachloride

Concen: 0.252 ug/L

RT: 5.10 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VU034987.D

Acq: 08 Oct 2019 12:40

Instrument :

MSVOA\_U

ClientSampleId :

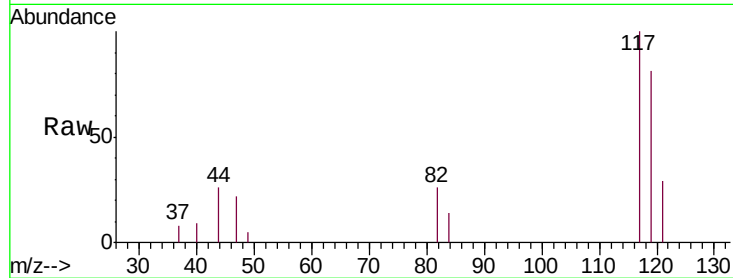
MDL05

Tgt Ion:117 Resp: 4322

Ion Ratio Lower Upper

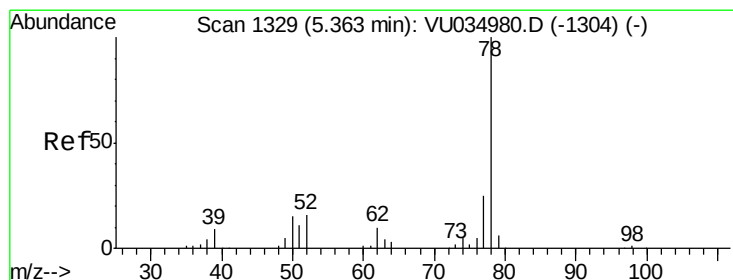
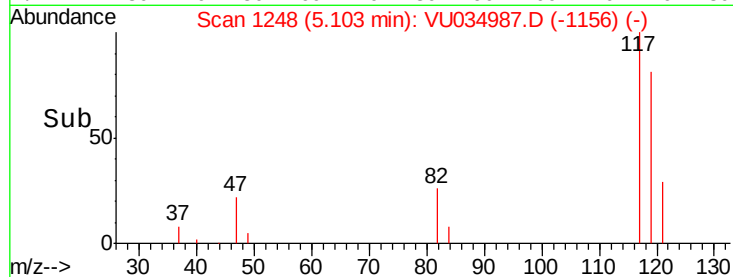
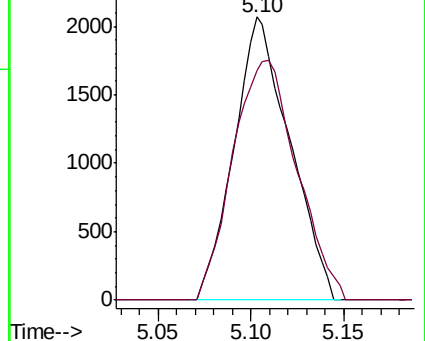
117 100

119 97.4 77.5 116.3



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 0.276 ug/L

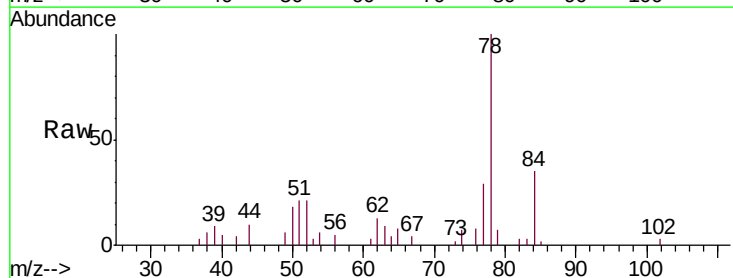
RT: 5.37 min Scan# 1331

Delta R.T. 0.01 min

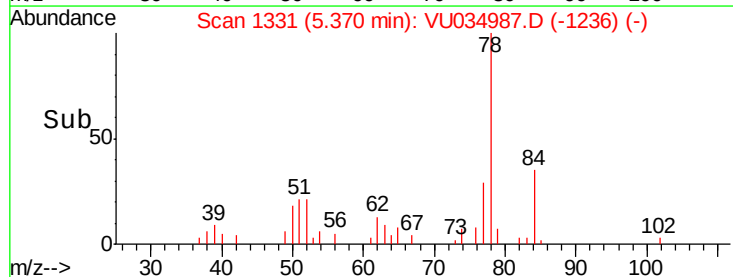
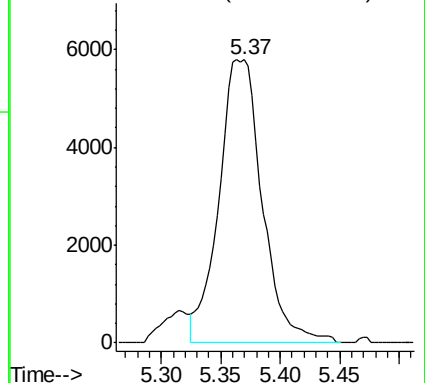
Lab File: VU034987.D

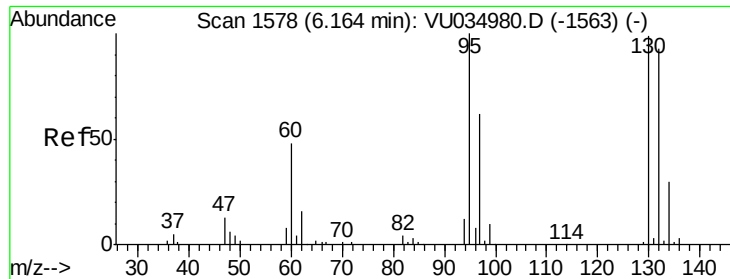
Acq: 08 Oct 2019 12:40

Tgt Ion: 78 Resp: 14658



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 0.275 ug/L

RT: 6.17 min Scan# 1580

Delta R.T. 0.01 min

Lab File: VU034987.D

Acq: 08 Oct 2019 12:40

Instrument :

MSVOA\_U

ClientSampleId :

MDL05

Tgt Ion: 95 Resp: 3762

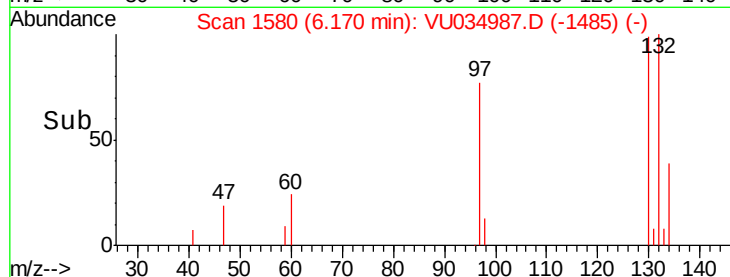
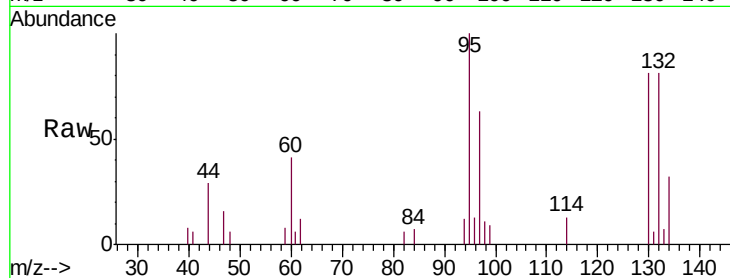
Ion Ratio Lower Upper

95 100

97 62.9 44.5 82.7

132 81.4 66.6 123.8

130 80.5 68.9 127.9

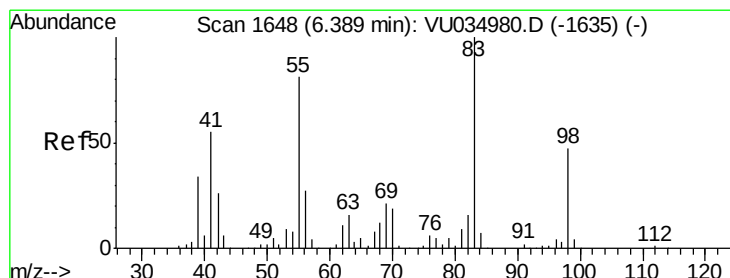
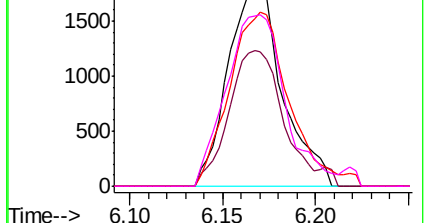


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 0.260 ug/L

RT: 6.39 min Scan# 1649

Delta R.T. 0.00 min

Lab File: VU034987.D

Acq: 08 Oct 2019 12:40

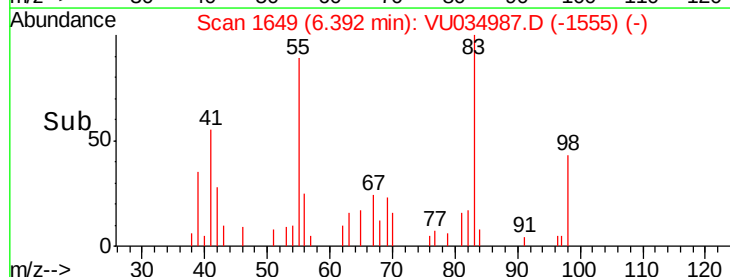
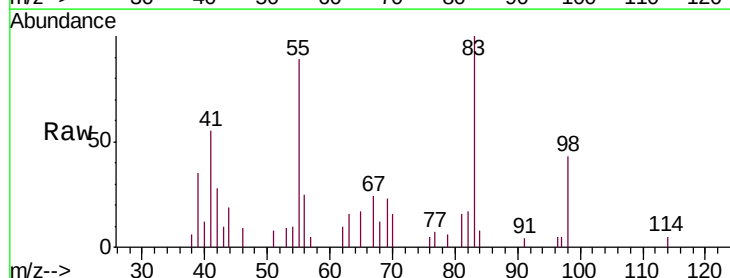
Tgt Ion: 83 Resp: 5766

Ion Ratio Lower Upper

83 100

55 80.8 62.6 94.0

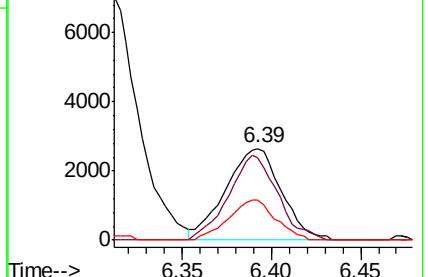
98 37.1 36.2 54.2



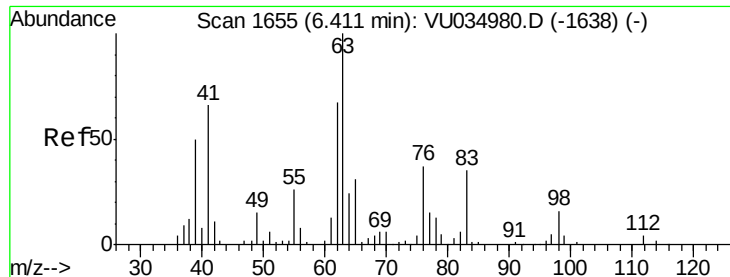
Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0



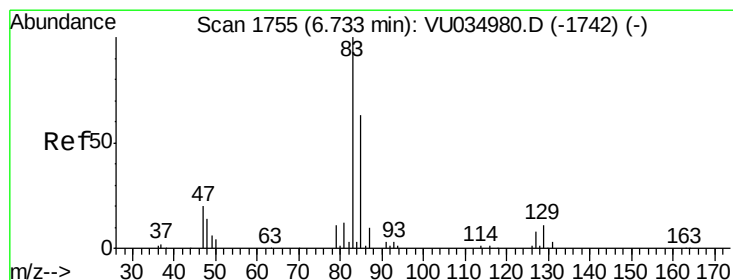
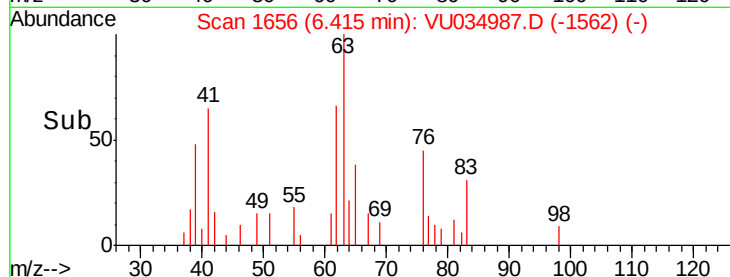
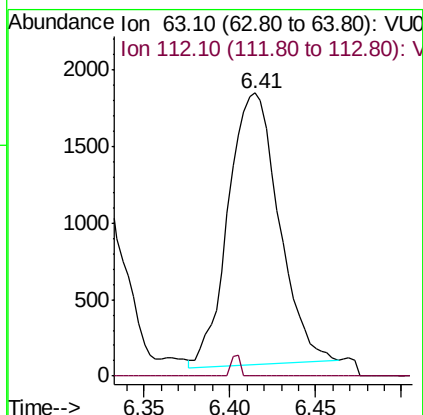
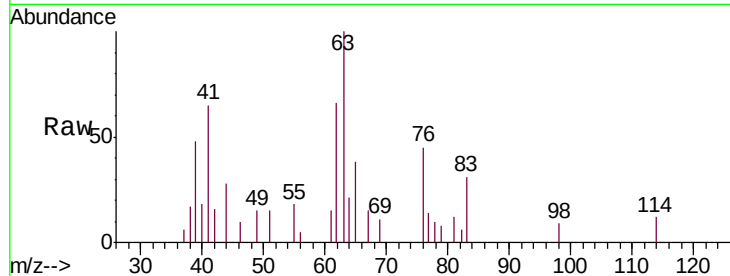




#37  
 1,2-Dichloropropane  
 Concen: 0.253 ug/L  
 RT: 6.41 min Scan# 1656  
 Delta R.T. 0.00 min  
 Lab File: VU034987.D  
 Acq: 08 Oct 2019 12:40

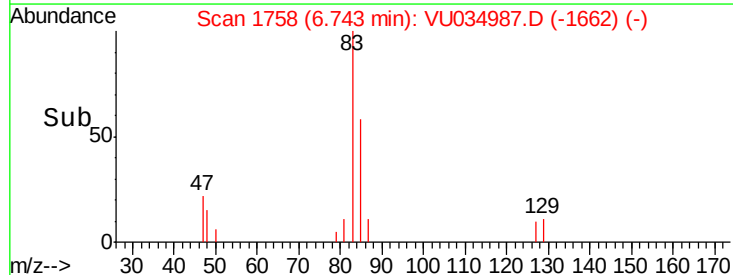
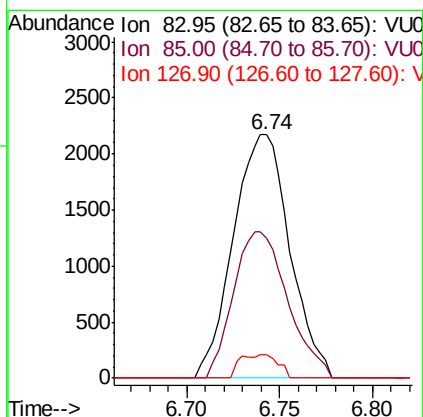
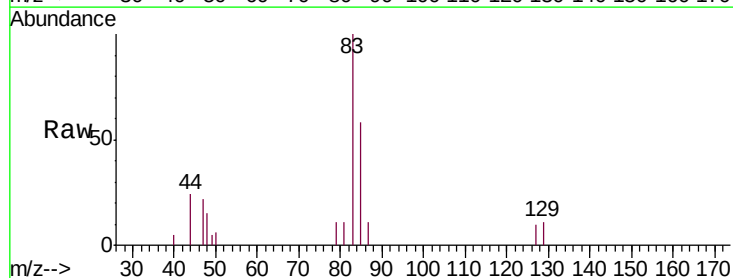
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL05

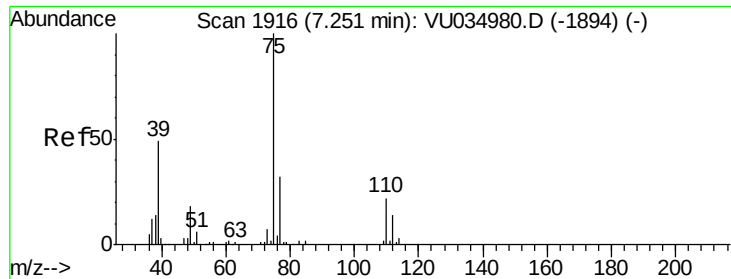
Tgt Ion: 63 Resp: 3621  
 Ion Ratio Lower Upper  
 63 100  
 112 1.4 3.1 4.7#



#38  
 Bromodichloromethane  
 Concen: 0.275 ug/L  
 RT: 6.74 min Scan# 1758  
 Delta R.T. 0.01 min  
 Lab File: VU034987.D  
 Acq: 08 Oct 2019 12:40

Tgt Ion: 83 Resp: 4618  
 Ion Ratio Lower Upper  
 83 100  
 85 57.6 44.0 81.8  
 127 9.5 7.0 10.4



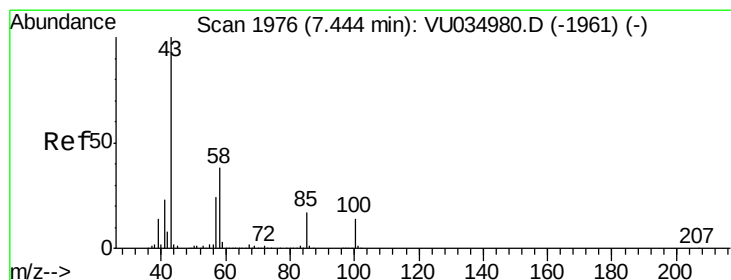
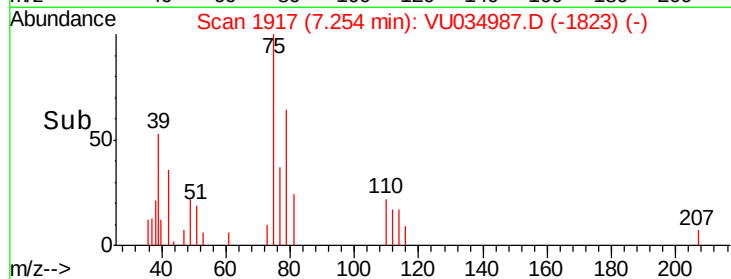
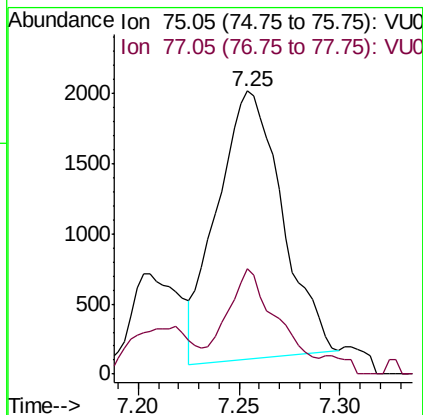
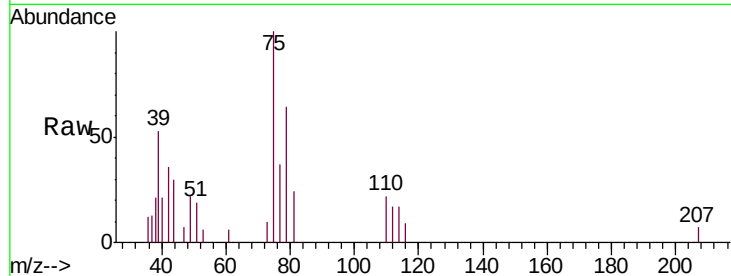


#39

cis-1,3-Dichloropropene  
 Concen: 0.221 ug/L  
 RT: 7.25 min Scan# 1917  
 Delta R.T. 0.00 min  
 Lab File: VU034987.D  
 Acq: 08 Oct 2019 12:40

Instrument :  
 MSVOA\_U  
 ClientSampled :  
 MDL05

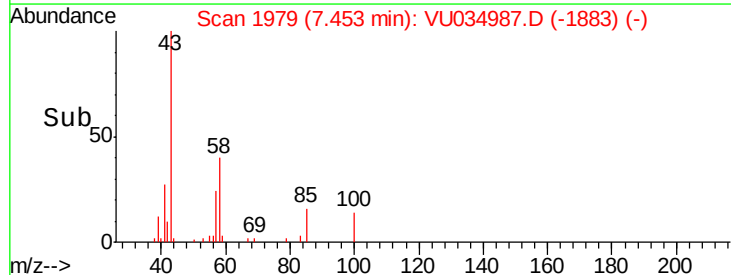
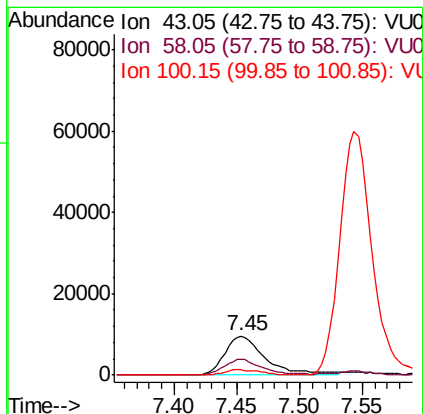
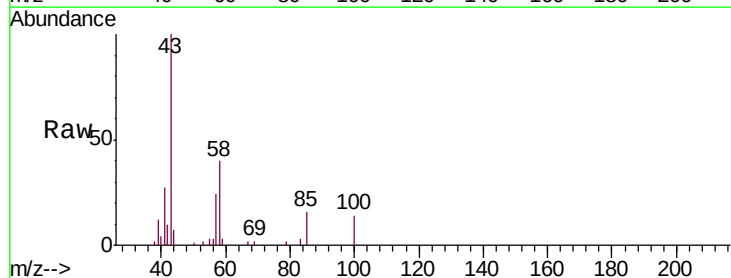
Tgt Ion: 75 Resp: 4276  
 Ion Ratio Lower Upper  
 75 100  
 77 37.1 22.1 41.1

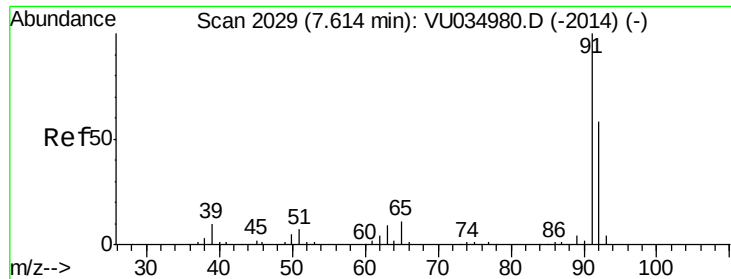


#40

4-Methyl-2-pentanone  
 Concen: 2.390 ug/L  
 RT: 7.45 min Scan# 1979  
 Delta R.T. 0.01 min  
 Lab File: VU034987.D  
 Acq: 08 Oct 2019 12:40

Tgt Ion: 43 Resp: 21513  
 Ion Ratio Lower Upper  
 43 100  
 58 35.4 32.4 48.6  
 100 0.0 11.9 17.9#





#42

Toluene

Concen: 0.259 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. 0.00 min

Lab File: VU034987.D

Acq: 08 Oct 2019 12:40

Instrument :

MSVOA\_U

ClientSampleId :

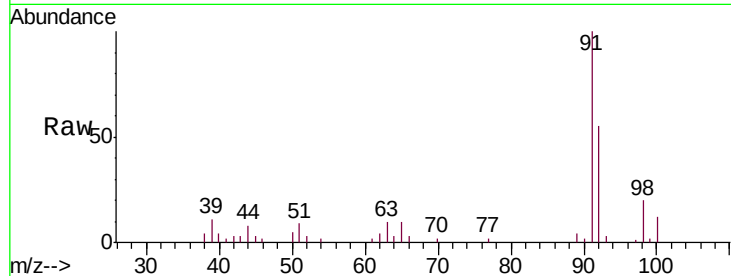
MDL05

Tgt Ion: 91 Resp: 14319

Ion Ratio Lower Upper

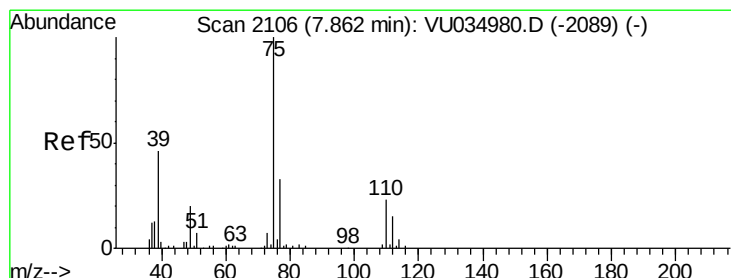
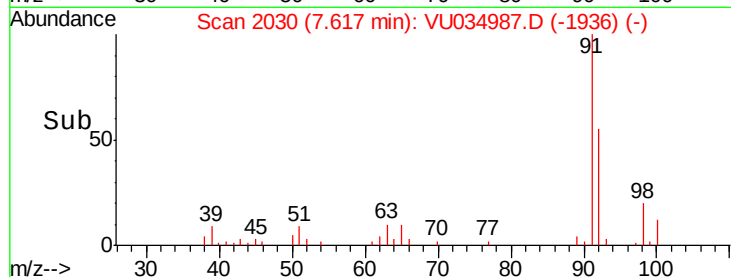
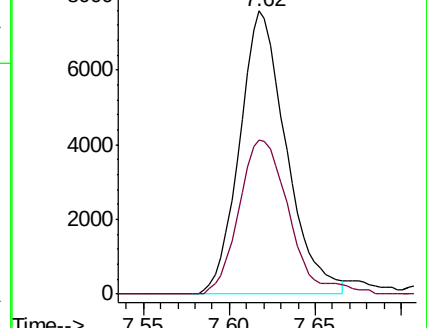
91 100

92 54.5 40.0 74.2



Abundance Ion 91.15 (90.85 to 91.85): VU034987.D (-2030) (-)

Ion 92.15 (91.85 to 92.85): VU034987.D (-2030) (-)



#44

trans-1,3-Dichloropropene

Concen: 0.235 ug/L

RT: 7.87 min Scan# 2108

Delta R.T. 0.01 min

Lab File: VU034987.D

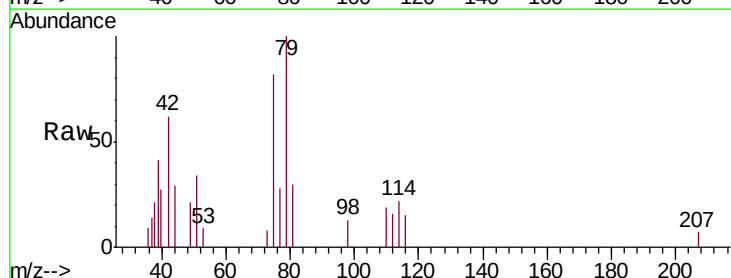
Acq: 08 Oct 2019 12:40

Tgt Ion: 75 Resp: 3526

Ion Ratio Lower Upper

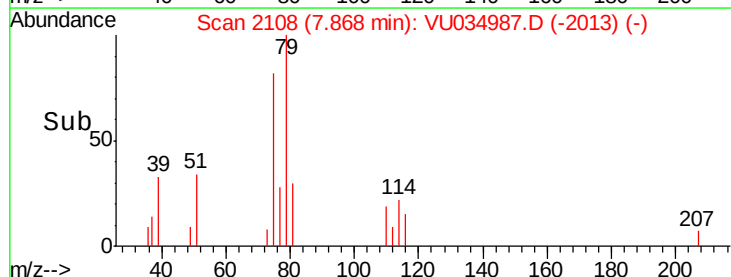
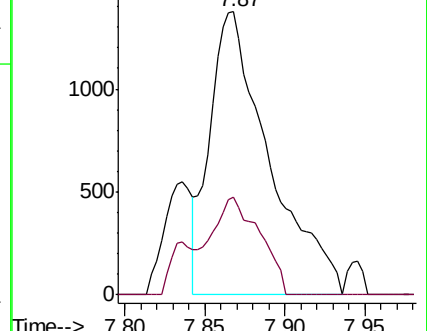
75 100

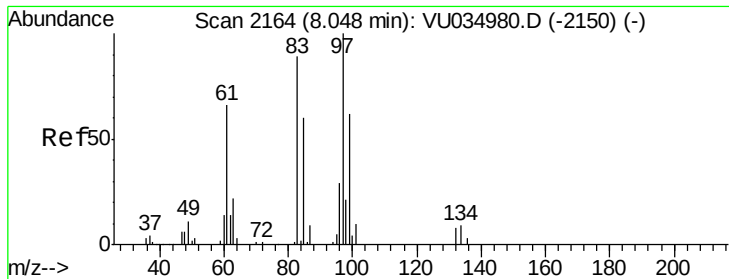
77 34.6 21.6 40.0



Abundance Ion 75.05 (74.75 to 75.75): VU034987.D (-2108) (-)

Ion 77.05 (76.75 to 77.75): VU034987.D (-2108) (-)





#45

1,1,2-Trichloroethane

Concen: 0.308 ug/L

RT: 8.05 min Scan# 2165

Delta R.T. 0.00 min

Lab File: VU034987.D

Acq: 08 Oct 2019 12:40

Instrument :

MSVOA\_U

ClientSampleID :

MDL05

Tgt Ion: 97 Resp: 2921

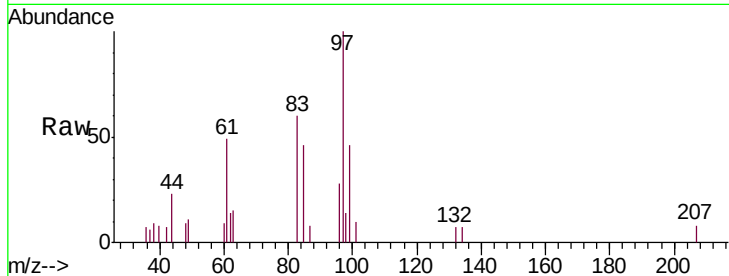
Ion Ratio Lower Upper

97 100

99 45.8 42.3 78.5

83 60.0 58.0 107.6

85 45.5 37.8 70.2

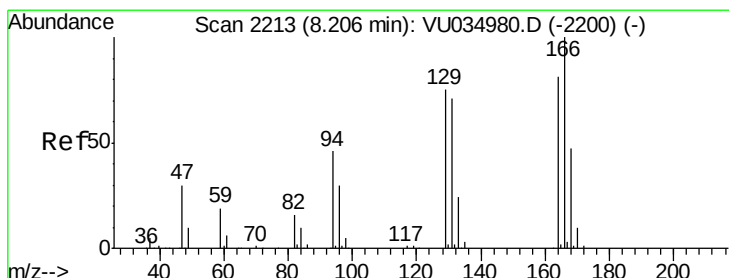
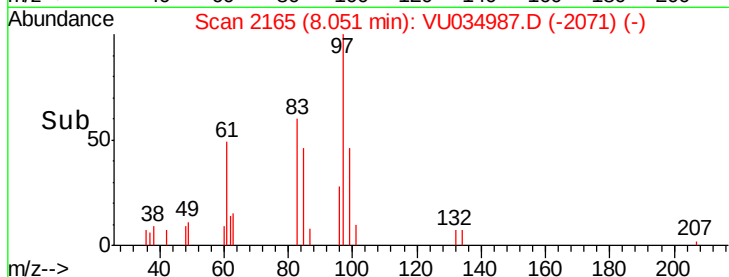
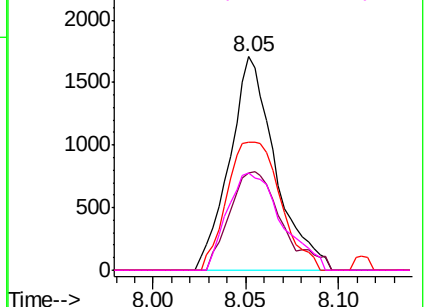


Abundance Ion 96.95 (96.65 to 97.65): VU0

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: 0.271 ug/L

RT: 8.21 min Scan# 2214

Delta R.T. 0.00 min

Lab File: VU034987.D

Acq: 08 Oct 2019 12:40

Tgt Ion: 164 Resp: 3001

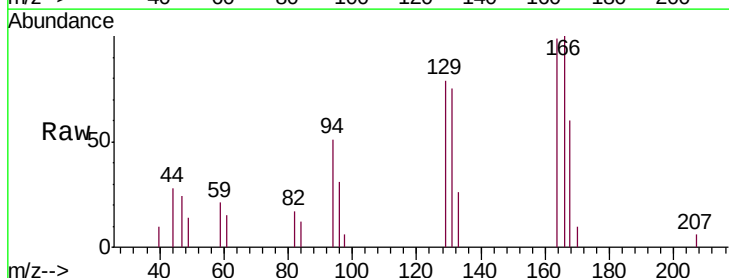
Ion Ratio Lower Upper

164 100

129 80.0 68.5 127.1

131 76.1 67.3 124.9

166 101.3 93.1 172.9

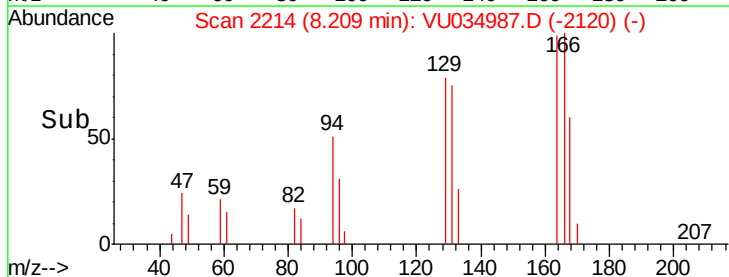
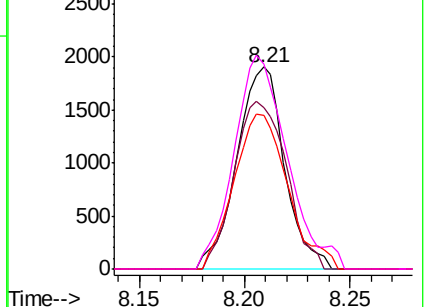


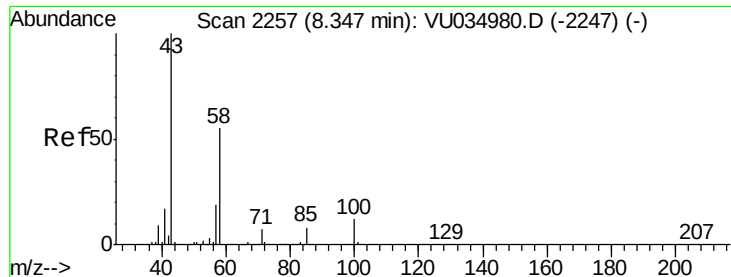
Abundance Ion 163.90 (163.60 to 164.60): V

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

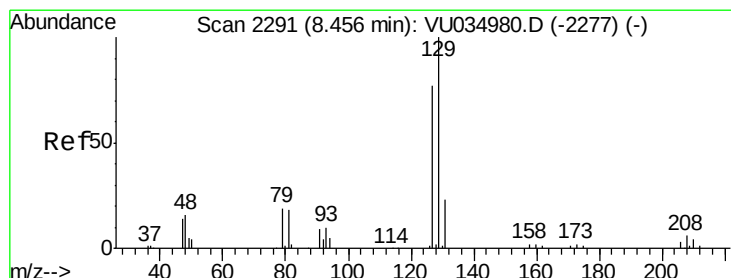
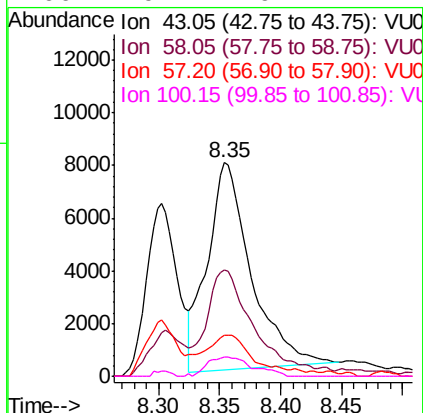
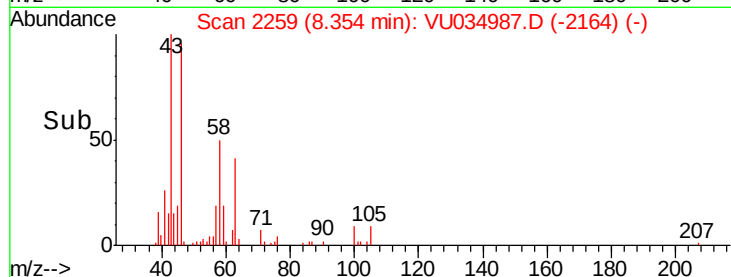
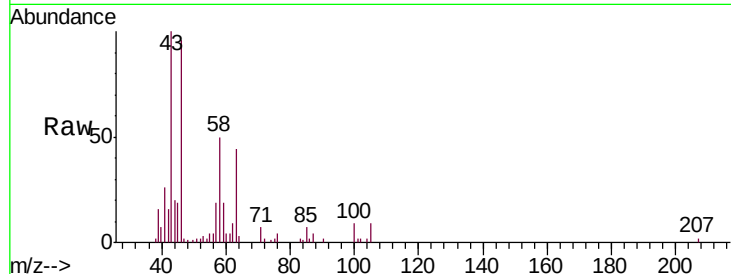




#48  
2-Hexanone  
Concen: 3.199 ug/L  
RT: 8.35 min Scan# 2259  
Delta R.T. 0.01 min  
Lab File: VU034987.D  
Acq: 08 Oct 2019 12:40

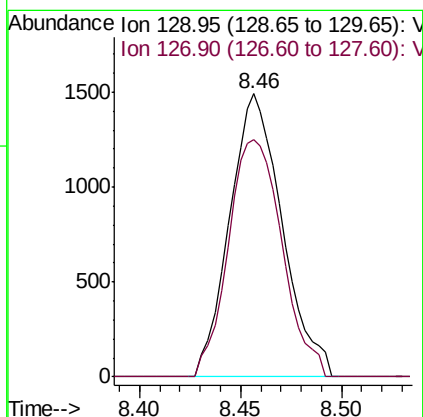
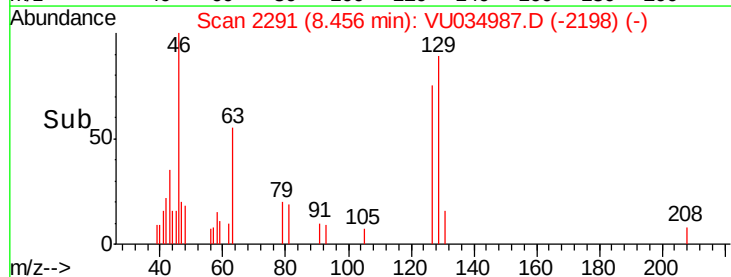
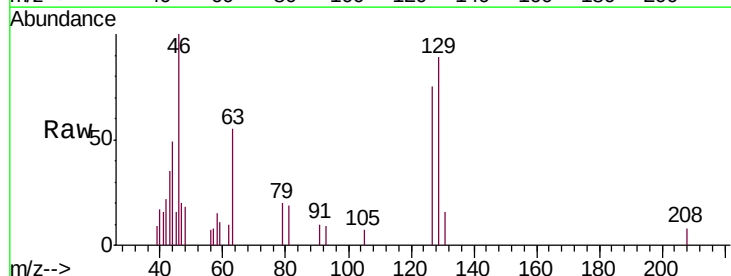
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL05

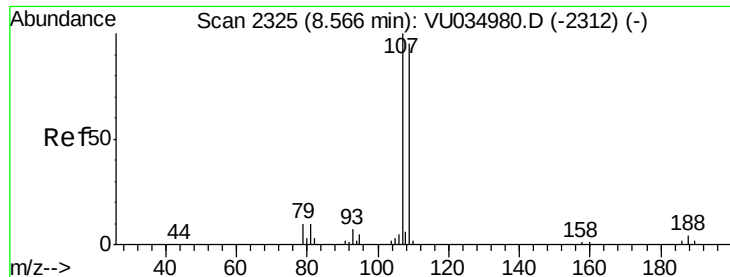
Tgt Ion: 43 Resp: 19741  
Ion Ratio Lower Upper  
43 100  
58 49.4 44.1 66.1  
57 17.9 15.8 23.8  
100 9.7 9.4 14.2



#49  
Dibromochloromethane  
Concen: 0.247 ug/L  
RT: 8.46 min Scan# 2291  
Delta R.T. 0.00 min  
Lab File: VU034987.D  
Acq: 08 Oct 2019 12:40

Tgt Ion: 129 Resp: 2712  
Ion Ratio Lower Upper  
129 100  
127 83.7 51.9 96.5





#50

1,2-Dibromoethane

Concen: 0.247 ug/L

RT: 8.57 min Scan# 2327

Delta R.T. 0.01 min

Lab File: VU034987.D

Acq: 08 Oct 2019 12:40

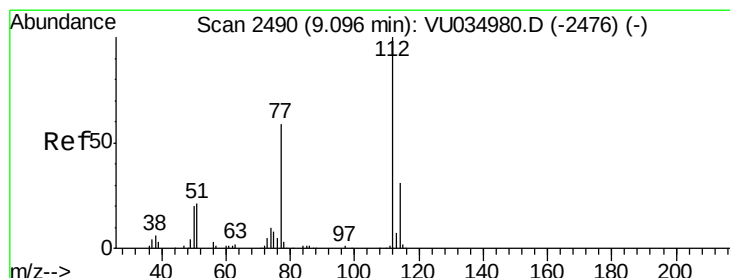
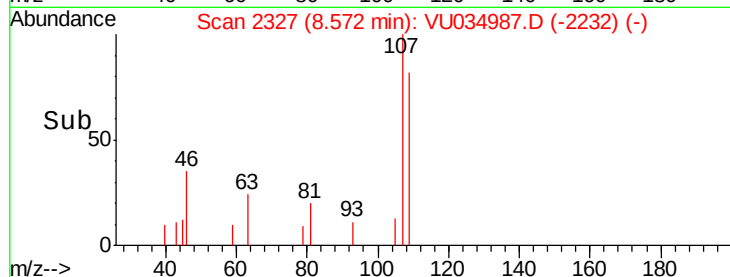
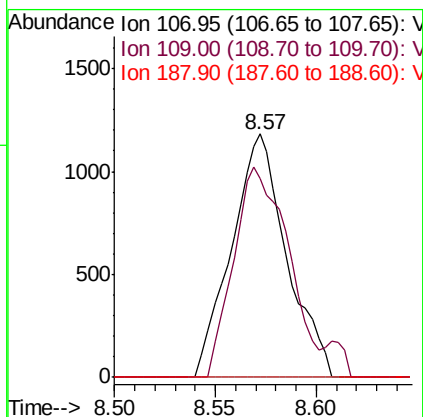
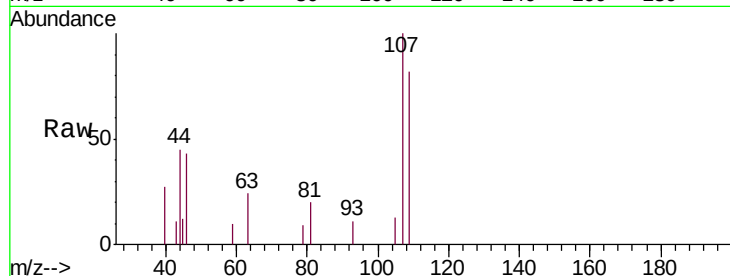
Instrument :

MSVOA\_U

ClientSampleId :

MDL05

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 107   | Resp: | 2244  |
| Ion      | Ratio | Lower | Upper |
| 107      | 100   |       |       |
| 109      | 81.7  | 64.8  | 120.4 |
| 188      | 0.0   | 3.0   | 4.6#  |



#51

Chlorobenzene

Concen: 0.256 ug/L

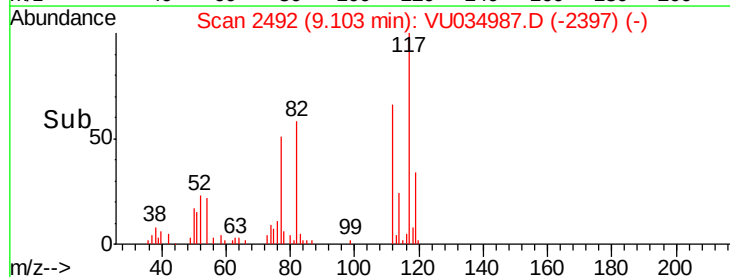
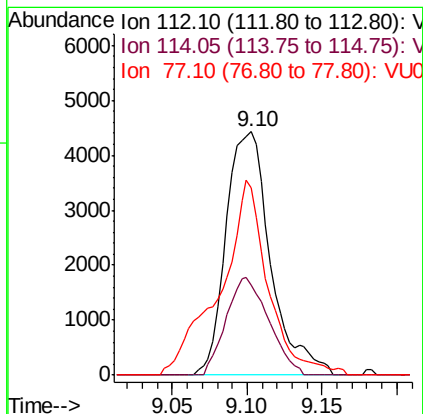
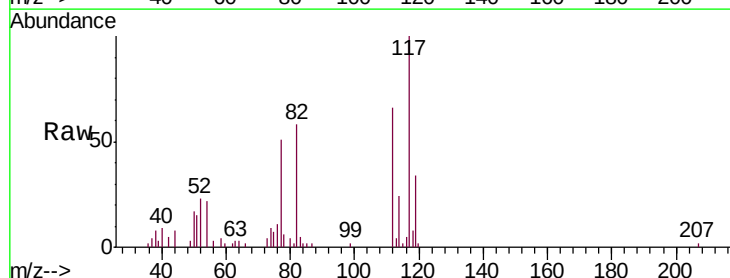
RT: 9.10 min Scan# 2492

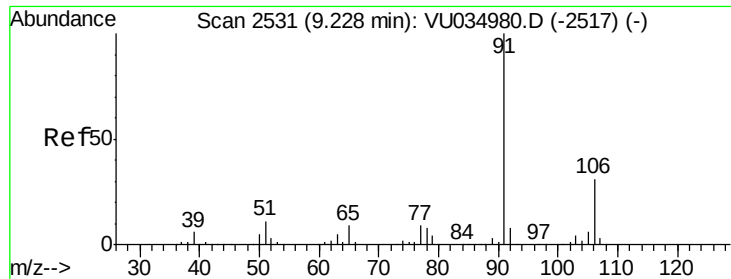
Delta R.T. 0.01 min

Lab File: VU034987.D

Acq: 08 Oct 2019 12:40

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 112   | Resp: | 9183  |
| Ion      | Ratio | Lower | Upper |
| 112      | 100   |       |       |
| 114      | 36.9  | 22.1  | 41.1  |
| 77       | 77.0  | 46.9  | 70.3# |





#52

Ethylbenzene

Concen: 0.263 ug/L

RT: 9.23 min Scan# 2532

Delta R.T. 0.00 min

Lab File: VU034987.D

Acq: 08 Oct 2019 12:40

Instrument :

MSVOA\_U

ClientSampleId :

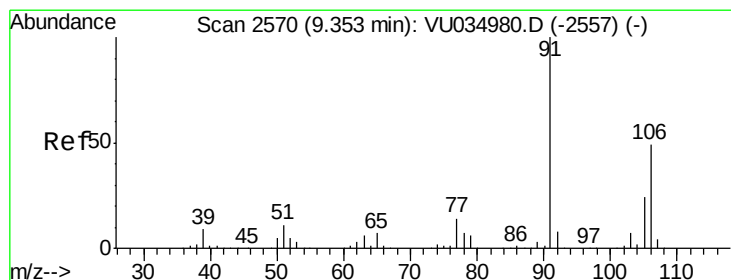
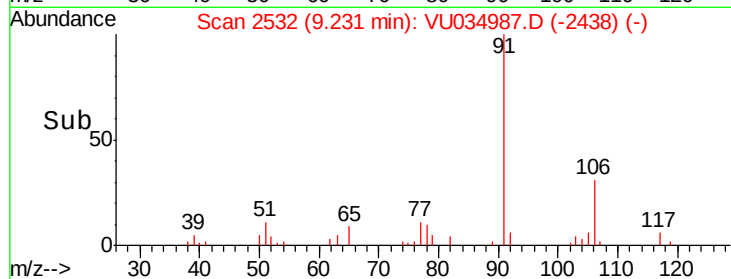
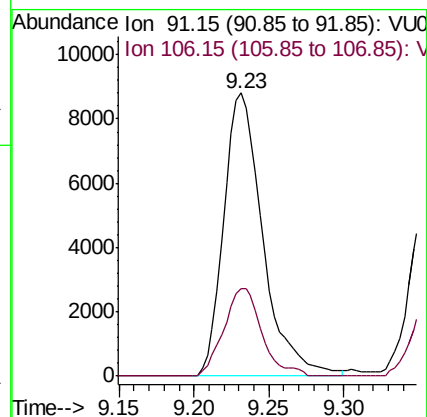
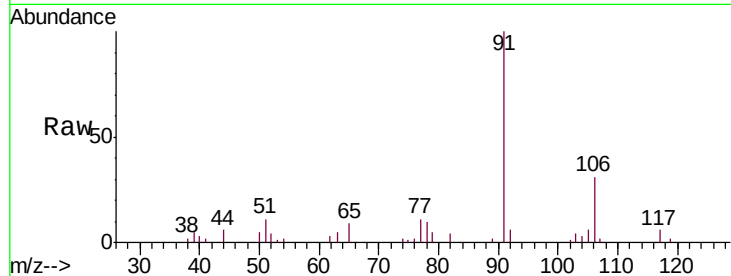
MDL05

Tgt Ion: 91 Resp: 16047

Ion Ratio Lower Upper

91 100

106 30.8 21.6 40.2



#53

m,p-Xylene

Concen: 0.225 ug/L

RT: 9.36 min Scan# 2572

Delta R.T. 0.01 min

Lab File: VU034987.D

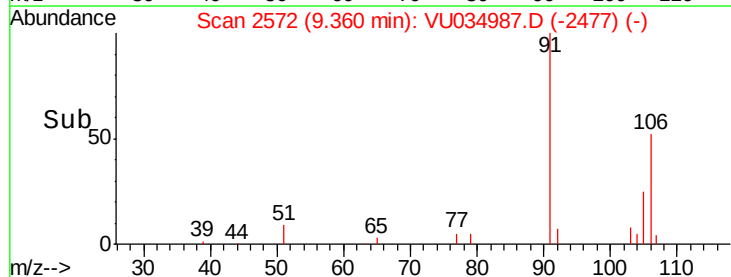
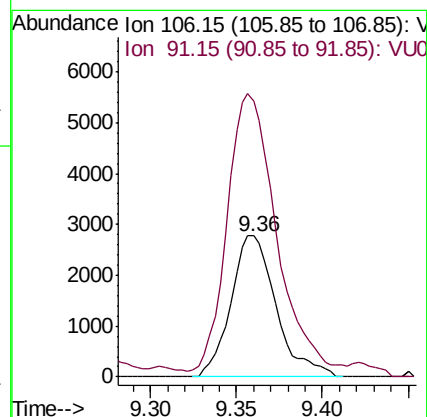
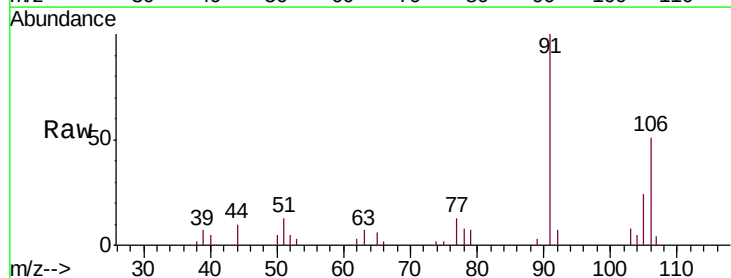
Acq: 08 Oct 2019 12:40

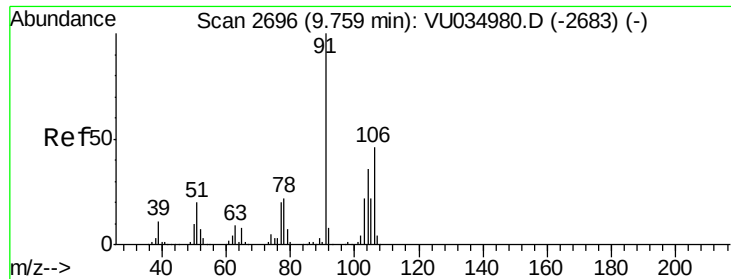
Tgt Ion: 106 Resp: 5078

Ion Ratio Lower Upper

106 100

91 195.9 147.6 274.0

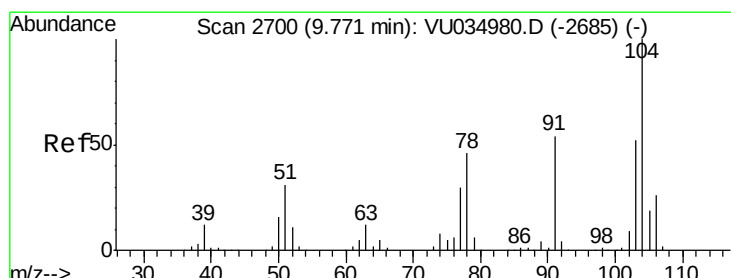
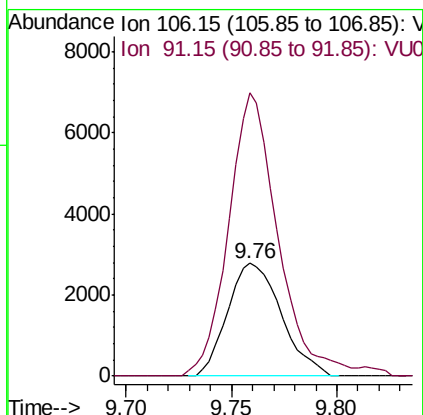
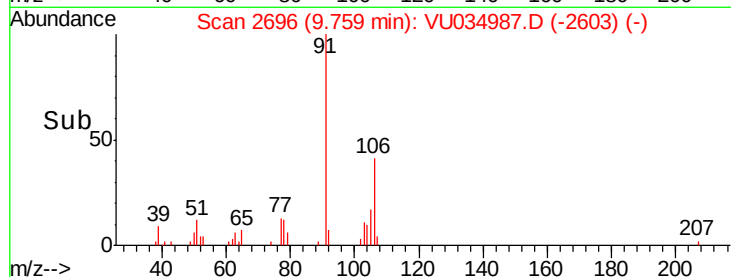
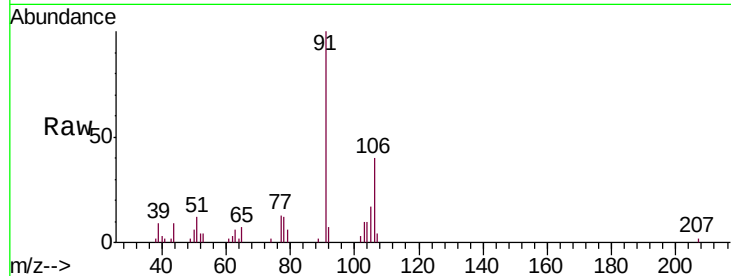




#54  
o-Xylene  
Concen: 0.223 ug/L  
RT: 9.76 min Scan# 2696  
Delta R.T. 0.00 min  
Lab File: VU034987.D  
Acq: 08 Oct 2019 12:40

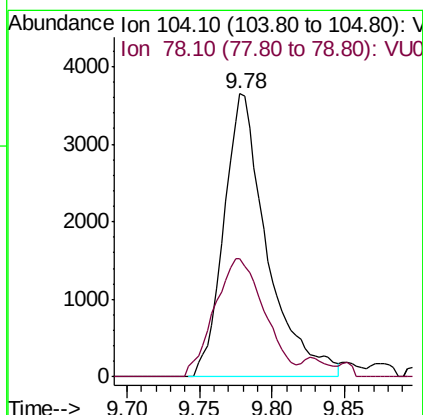
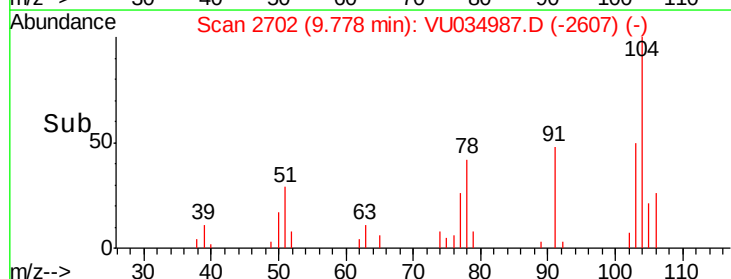
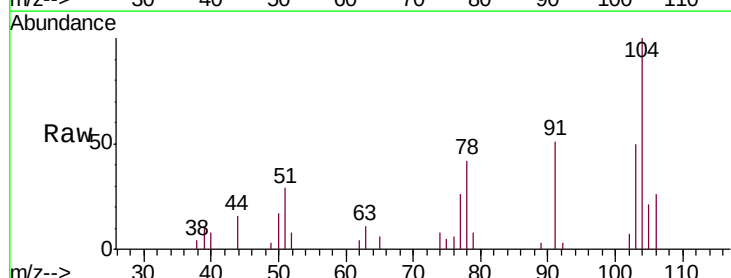
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL05

Tgt Ion:106 Resp: 4922  
Ion Ratio Lower Upper  
106 100  
91 251.1 148.5 275.7

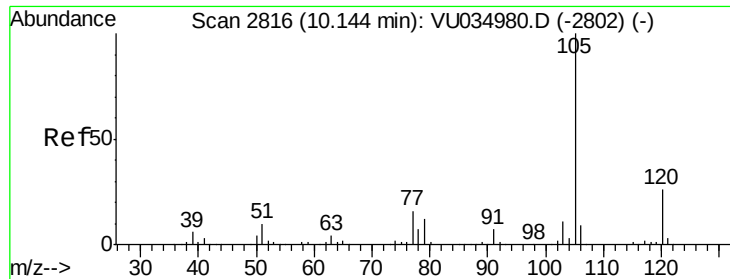


#55  
Styrene  
Concen: 0.211 ug/L  
RT: 9.78 min Scan# 2702  
Delta R.T. 0.01 min  
Lab File: VU034987.D  
Acq: 08 Oct 2019 12:40

Tgt Ion:104 Resp: 7549  
Ion Ratio Lower Upper  
104 100  
78 42.0 32.8 60.8







#56

Isopropylbenzene

Concen: 0.225 ug/L

RT: 10.15 min Scan# 2817

Delta R.T. 0.00 min

Lab File: VU034987.D

Acq: 08 Oct 2019 12:40

Instrument :

MSVOA\_U

ClientSampleId :

MDL05

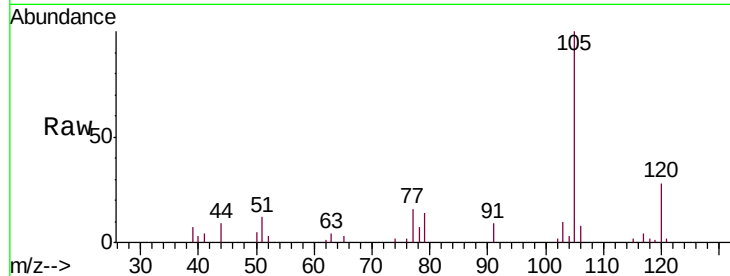
Tgt Ion: 105 Resp: 13242

Ion Ratio Lower Upper

105 100

120 25.2 21.3 31.9

77 16.1 13.0 19.4

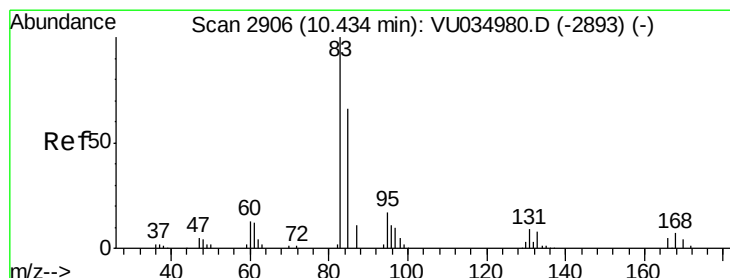
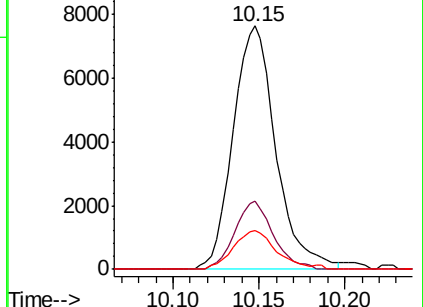
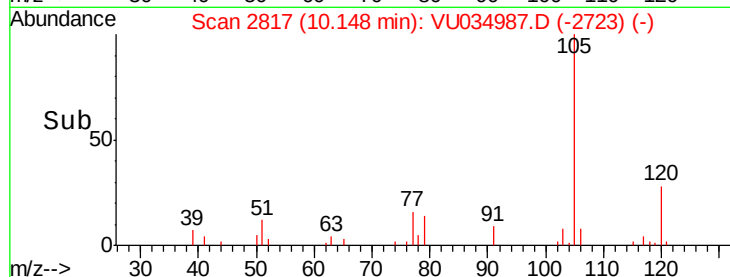


Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V

Time-->



#58

1,1,2,2-Tetrachloroethane

Concen: 0.281 ug/L

RT: 10.44 min Scan# 2907

Delta R.T. 0.00 min

Lab File: VU034987.D

Acq: 08 Oct 2019 12:40

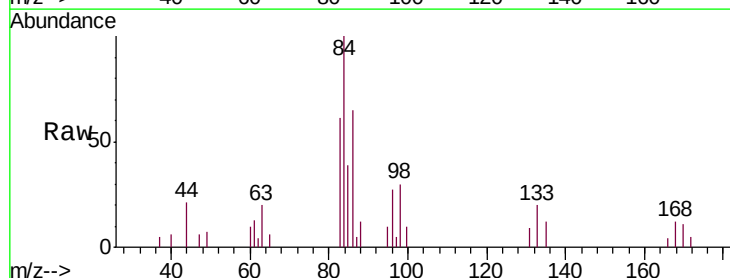
Tgt Ion: 83 Resp: 3632

Ion Ratio Lower Upper

83 100

85 64.0 44.6 82.8

131 15.1 7.4 11.2#

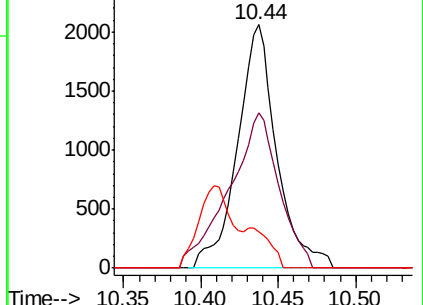
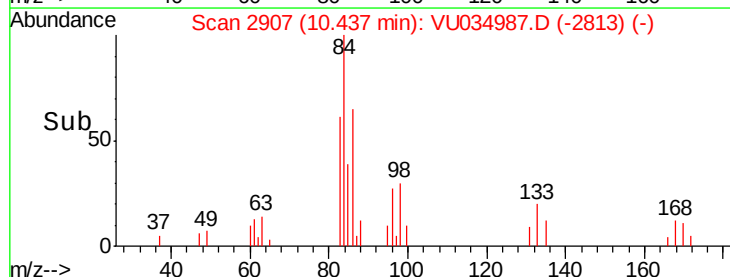


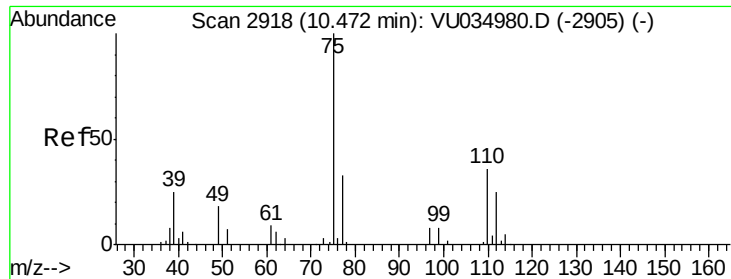
Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 130.95 (130.65 to 131.65): V

Time-->

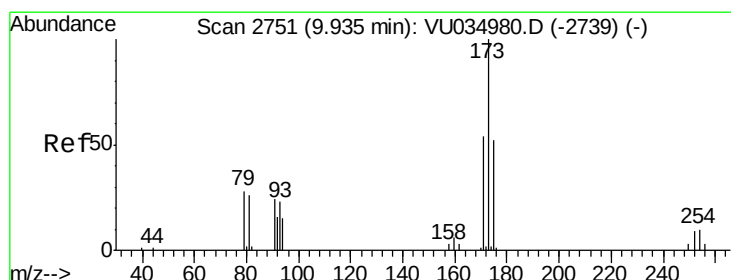
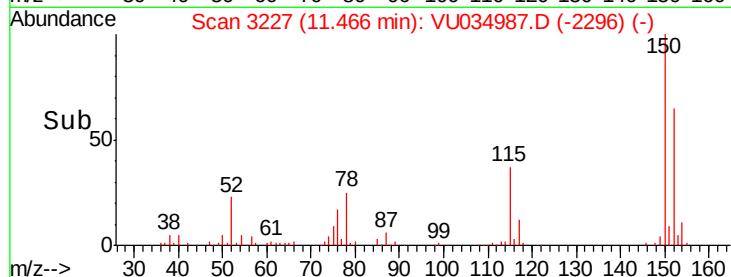
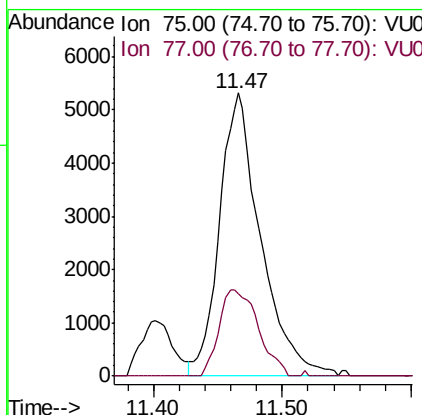
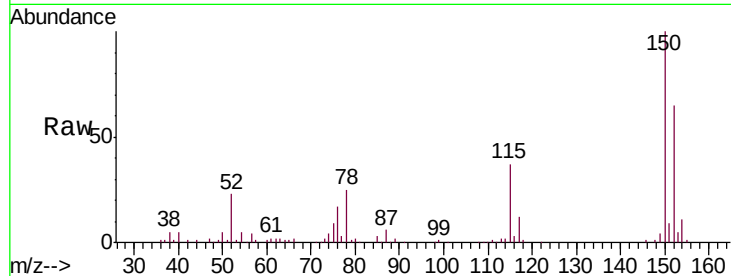




#59  
 1,2,3-Trichloropropane  
 Concen: 1.270 ug/L  
 RT: 11.47 min Scan# 3227  
 Delta R.T. 0.99 min  
 Lab File: VU034987.D  
 Acq: 08 Oct 2019 12:40

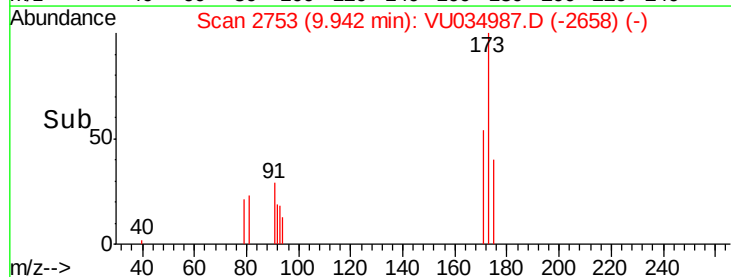
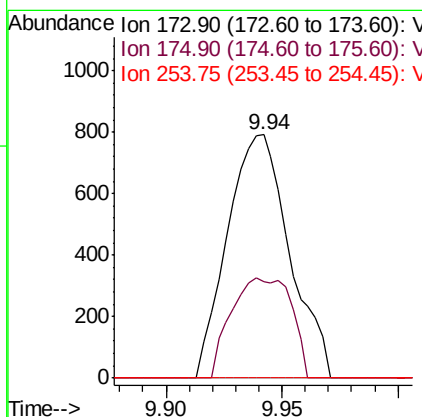
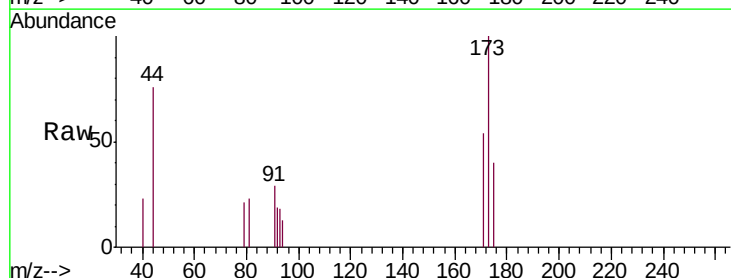
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL05

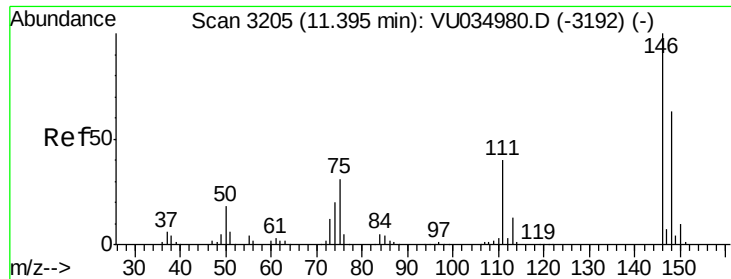
Tgt Ion: 75 Resp: 11754  
 Ion Ratio Lower Upper  
 75 100  
 77 29.1 26.5 39.7



#61  
 Bromoform  
 Concen: 0.286 ug/L  
 RT: 9.94 min Scan# 2753  
 Delta R.T. 0.01 min  
 Lab File: VU034987.D  
 Acq: 08 Oct 2019 12:40

Tgt Ion: 173 Resp: 1473  
 Ion Ratio Lower Upper  
 173 100  
 175 39.8 37.2 55.8  
 254 0.0 6.6 9.8#





#62

1,3-Dichlorobenzene

Concen: 0.286 ug/L

RT: 11.40 min Scan# 3207

Delta R.T. 0.01 min

Lab File: VU034987.D

Acq: 08 Oct 2019 12:40

Instrument :

MSVOA\_U

ClientSampleId :

MDL05

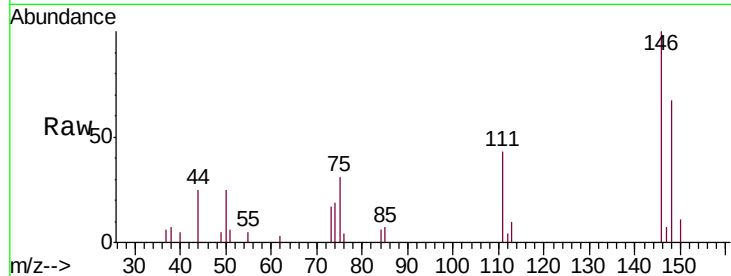
Tgt Ion:146 Resp: 6627

Ion Ratio Lower Upper

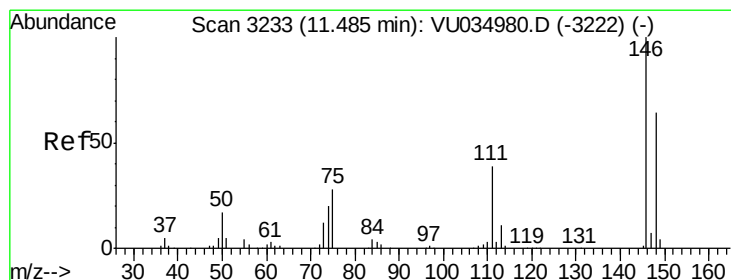
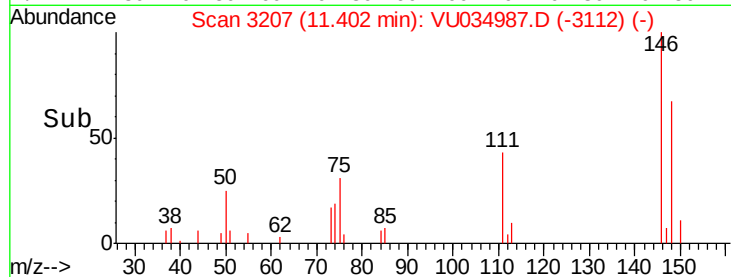
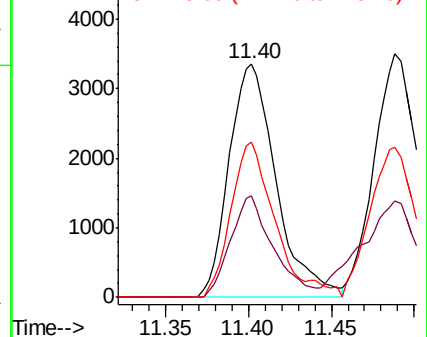
146 100

111 43.4 28.6 53.2

148 66.7 45.0 83.6



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: 0.292 ug/L

RT: 11.49 min Scan# 3234

Delta R.T. 0.00 min

Lab File: VU034987.D

Acq: 08 Oct 2019 12:40

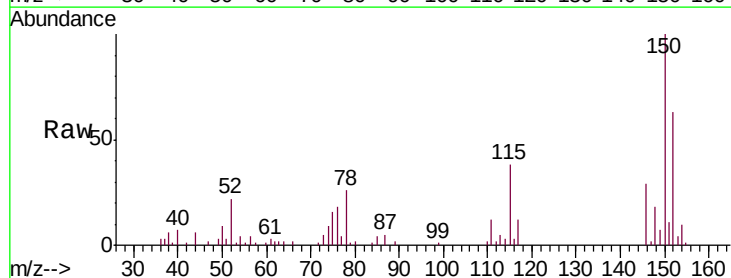
Tgt Ion:146 Resp: 6823

Ion Ratio Lower Upper

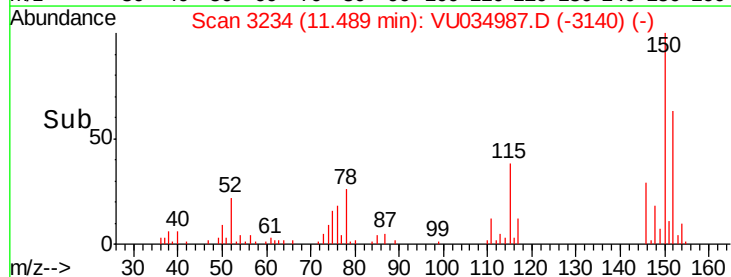
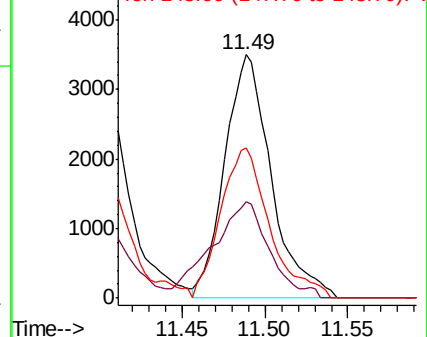
146 100

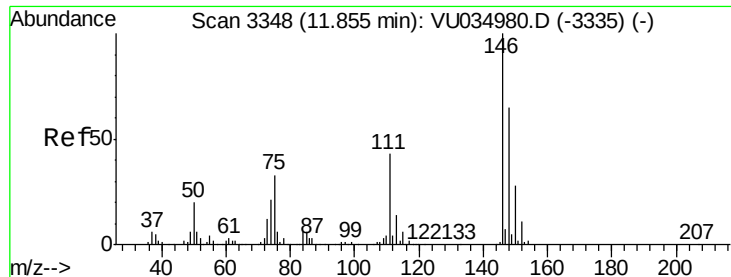
111 39.7 27.9 51.7

148 61.9 44.1 81.9



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: 0.301 ug/L

RT: 11.86 min Scan# 3349

Delta R.T. 0.00 min

Lab File: VU034987.D

Acq: 08 Oct 2019 12:40

Instrument :

MSVOA\_U

ClientSampled :

MDL05

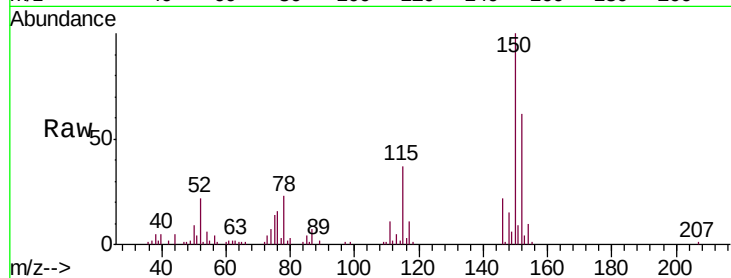
Tgt Ion:146 Resp: 6717

Ion Ratio Lower Upper

146 100

111 50.7 34.2 51.4

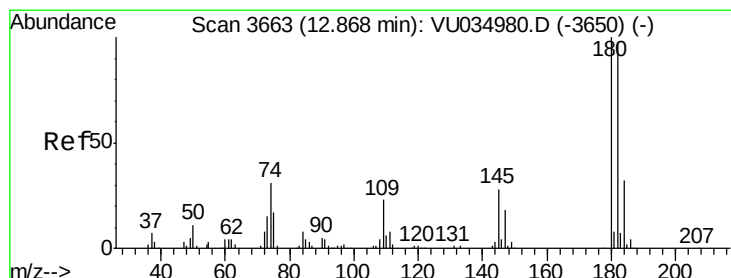
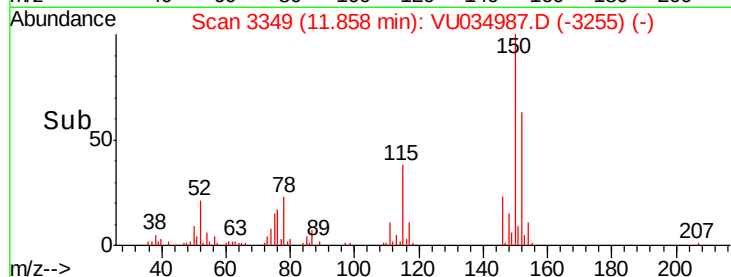
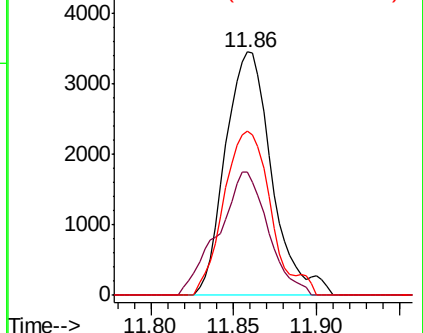
148 67.3 52.0 78.0



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



#67

1,3,5-Trichlorobenzene

Concen: 0.210 ug/L

RT: 12.87 min Scan# 3665

Delta R.T. 0.01 min

Lab File: VU034987.D

Acq: 08 Oct 2019 12:40

Tgt Ion:180 Resp: 3294

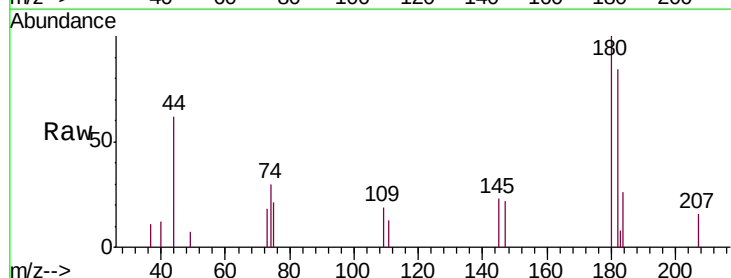
Ion Ratio Lower Upper

180 100

182 96.0 76.0 114.0

184 25.0 24.2 36.2

145 21.1 24.6 37.0#



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V

