

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU072518\  
 Data File : VU025627.D  
 Acq On : 25 Jul 2018 10:13  
 Operator : MD/SY  
 Sample : VSTDIC001  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Jul 25 12:00:45 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U072518DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Wed Jul 25 11:50:38 2018  
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
| 1) Fluorobenzene   | 5.75 | 96   | 36351    | 1.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                            |       |     |          |      |         |      |
|----------------------------|-------|-----|----------|------|---------|------|
| 57) 4-Bromofluorobenzene   | 10.31 | 95  | 13015    | 1.10 | ug/l    | 0.00 |
| Spiked Amount 1.000        |       |     | Recovery | =    | 110.00% |      |
| 68) 1,2-Dichlorobenzene-d4 | 11.86 | 152 | 13991    | 1.21 | ug/l    | 0.00 |
| Spiked Amount 1.000        |       |     | Recovery | =    | 121.00% |      |

## Target Compounds

|                               |      |     |       |        | Ovalue    |
|-------------------------------|------|-----|-------|--------|-----------|
| 2) Dichlorodifluoromethane    | 1.21 | 85  | 12557 | 1.064  | ug/l 98   |
| 3) Chloromethane              | 1.33 | 50  | 11916 | 0.871  | ug/l 99   |
| 4) Vinyl Chloride             | 1.41 | 62  | 10911 | 0.832  | ug/l 98   |
| 5) Bromomethane               | 1.63 | 94  | 5675  | 0.809  | ug/l 93   |
| 6) Chloroethane               | 1.70 | 64  | 6555  | 0.898  | ug/l 92   |
| 7) Trichlorofluoromethane     | 1.89 | 101 | 16270 | 1.080  | ug/l 94   |
| 8) 1,1,2-Trichloro-1,2,2-trif | 2.29 | 101 | 8808  | 0.952  | ug/l 97   |
| 9) 1,1-Dichloroethene         | 2.29 | 96  | 7893  | 0.919  | ug/l 92   |
| 10) Iodomethane               | 2.41 | 142 | 3488  | 0.342  | ug/l 94   |
| 11) Allyl Chloride            | 2.60 | 41  | 12410 | 0.786  | ug/l # 82 |
| 12) Acrylonitrile             | 2.94 | 53  | 3486  | 1.967  | ug/l 98   |
| 13) Acetone                   | 2.32 | 43  | 7195  | 4.783  | ug/l 98   |
| 14) Carbon Disulfide          | 2.48 | 76  | 26392 | 0.934  | ug/l 99   |
| 15) Methylene Chloride        | 2.71 | 84  | 9939  | 1.016  | ug/l 93   |
| 16) trans-1,2-Dichloroethene  | 2.99 | 96  | 8748  | 0.951  | ug/l 92   |
| 17) 1,1-Dichloroethane        | 3.45 | 63  | 16730 | 0.923  | ug/l 98   |
| 18) 2-Butanone                | 4.28 | 43  | 12702 | 5.225  | ug/l 95   |
| 19) Cyclohexane               | 4.99 | 56  | 13037 | 0.832  | ug/l # 84 |
| 20) Methylcyclohexane         | 6.42 | 83  | 15781 | 0.988  | ug/l 97   |
| 21) 2,2-Dichloropropane       | 4.23 | 77  | 17058 | 1.187  | ug/l 97   |
| 22) cis-1,2-Dichloroethene    | 4.23 | 96  | 10449 | 1.049  | ug/l 96   |
| 23) Diethyl Ether             | 2.11 | 59  | 5665  | 0.807  | ug/l 95   |
| 24) tert-Butyl Alcohol        | 2.84 | 59  | 7521  | 14.204 | ug/l # 79 |
| 25) Methyl tert-Butyl Ether   | 3.01 | 73  | 20912 | 0.969  | ug/l 98   |
| 26) Bromochloromethane        | 4.56 | 128 | 4853  | 1.233  | ug/l 78   |
| 27) Chloroform                | 4.68 | 83  | 19020 | 1.114  | ug/l 98   |
| 28) 1,1,1-Trichloroethane     | 4.92 | 97  | 17843 | 1.274  | ug/l # 72 |
| 29) 1,1-Dichloropropene       | 5.14 | 75  | 13706 | 0.997  | ug/l 99   |
| 30) Carbon Tetrachloride      | 5.14 | 117 | 14385 | 1.221  | ug/l 97   |
| 31) Isopropyl Ether           | 3.58 | 45  | 27403 | 0.896  | ug/l 87   |
| 32) Ethyl-t-butyl ether       | 4.08 | 59  | 25490 | 0.975  | ug/l 92   |
| 33) Tert-Amyl methyl ether    | 5.59 | 73  | 22435 | 1.014  | ug/l 98   |
| 34) Propionitrile             | 4.34 | 54  | 3305  | 4.775  | ug/l # 86 |
| 35) Benzene                   | 5.39 | 78  | 38931 | 0.953  | ug/l 97   |
| 36) 1,2-Dichloroethane        | 5.41 | 62  | 11789 | 1.021  | ug/l 100  |
| 37) Trichloroethene           | 6.19 | 130 | 11858 | 1.082  | ug/l 93   |
| 38) 1,2-Dichloropropane       | 6.44 | 63  | 10188 | 0.910  | ug/l 100  |
| 39) Methacrylonitrile         | 4.55 | 41  | 3093  | 0.874  | ug/l # 90 |
| 40) Methyl acrylate           | 4.44 | 55  | 4877  | 0.993  | ug/l # 96 |
| 41) Tetrahydrofuran           | 4.66 | 42  | 4256  | 2.334  | ug/l 97   |
| 42) 1-Chlorobutane            | 5.07 | 56  | 18518 | 0.930  | ug/l 98   |

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 Sample : VSTDIC001  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 3 Sample Multiplier: 1

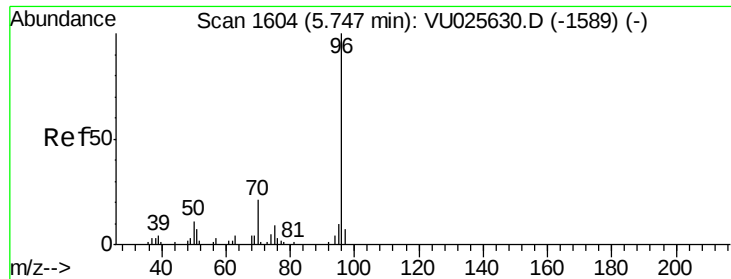
Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Jul 25 12:00:45 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U072518DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Wed Jul 25 11:50:38 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 43) Dibromomethane             | 6.56  | 93   | 5117     | 1.062 | ug/l   | 97       |
| 44) Bromodichloromethane       | 6.76  | 83   | 12883    | 1.064 | ug/l   | 100      |
| 45) 4-Methyl-2-Pentanone       | 7.47  | 43   | 27767    | 4.877 | ug/l   | 98       |
| 46) t-1,4-Dichloro-2-butene    | 10.52 | 75   | 3391m    | 2.014 | ug/l   |          |
| 47) Methyl methacrylate        | 6.63  | 69   | 8286     | 1.898 | ug/l   | 92       |
| 48) Ethyl methacrylate         | 8.02  | 69   | 8302     | 1.088 | ug/l   | 97       |
| 49) Toluene                    | 7.64  | 92   | 22638    | 0.960 | ug/l   | 100      |
| 50) t-1,3-Dichloropropene      | 7.89  | 75   | 11309    | 1.095 | ug/l   | 99       |
| 51) cis-1,3-Dichloropropene    | 7.27  | 75   | 14360    | 1.068 | ug/l   | 95       |
| 52) 1,1,2-Trichloroethane      | 8.07  | 97   | 6974     | 1.017 | ug/l   | 88       |
| 53) 1,3-Dichloropropane        | 8.25  | 76   | 11429    | 0.938 | ug/l   | 98       |
| 54) 2-Hexanone                 | 8.37  | 43   | 19156    | 4.939 | ug/l   | 97       |
| 55) Dibromochloromethane       | 8.48  | 129  | 8501     | 1.132 | ug/l   | 98       |
| 56) 1,2-Dibromoethane          | 8.59  | 107  | 6787     | 1.149 | ug/l   | 99       |
| 58) Tetrachloroethene          | 8.23  | 164  | 10490    | 1.049 | ug/l   | 98       |
| 59) Chlorobenzene              | 9.12  | 112  | 26491    | 1.049 | ug/l   | 95       |
| 60) 1,1,1,2-Tetrachloroethane  | 9.21  | 131  | 9720     | 1.133 | ug/l   | 98       |
| 61) Pentachloroethane          | 11.10 | 117  | 7362     | 1.209 | ug/l   | 94       |
| 62) Hexachloroethane           | 12.15 | 117  | 7149     | 1.224 | ug/l   | 100      |
| 63) Ethyl Benzene              | 9.25  | 91   | 43257    | 1.031 | ug/l   | 99       |
| 64) m/p-Xylenes                | 9.38  | 106  | 33286    | 2.056 | ug/l   | 100      |
| 65) o-Xylene                   | 9.79  | 106  | 15572    | 0.999 | ug/l   | 96       |
| 66) Styrene                    | 9.80  | 104  | 26743    | 1.040 | ug/l   | 99       |
| 67) Bromoform                  | 9.96  | 173  | 4990     | 1.272 | ug/l # | 96       |
| 69) Isopropylbenzene           | 10.17 | 105  | 42513    | 1.059 | ug/l   | 99       |
| 70) 1,1,2,2-Tetrachloroethane  | 10.46 | 83   | 8473     | 1.097 | ug/l   | 99       |
| 71) 1,2,3-Trichloropropane     | 10.50 | 75   | 6948m    | 1.257 | ug/l   |          |
| 72) Bromobenzene               | 10.45 | 156  | 11601    | 1.161 | ug/l   | 95       |
| 73) n-propylbenzene            | 10.59 | 120  | 11479    | 1.034 | ug/l   | 95       |
| 74) 2-Chlorotoluene            | 10.66 | 126  | 10314    | 1.051 | ug/l   | 99       |
| 75) 1,3,5-Trimethylbenzene     | 10.78 | 105  | 37421    | 1.106 | ug/l   | 98       |
| 76) 4-Chlorotoluene            | 10.78 | 126  | 10827    | 1.065 | ug/l   | 99       |
| 77) tert-Butylbenzene          | 11.10 | 119  | 36810    | 1.162 | ug/l   | 99       |
| 78) 1,2,4-Trimethylbenzene     | 11.15 | 105  | 36216    | 1.060 | ug/l   | 99       |
| 79) sec-Butylbenzene           | 11.33 | 105  | 48427    | 1.091 | ug/l   | 100      |
| 80) Nitrobenzene               | 12.87 | 77   | 1332     | 4.964 | ug/l # | 79       |
| 81) p-Isopropyltoluene         | 11.48 | 119  | 40255    | 1.104 | ug/l   | 97       |
| 82) 1,3-Dichlorobenzene        | 11.42 | 146  | 24094    | 1.208 | ug/l   | 98       |
| 83) 1,4-Dichlorobenzene        | 11.51 | 146  | 22841    | 1.146 | ug/l   | 99       |
| 84) n-Butylbenzene             | 11.90 | 91   | 38562    | 1.083 | ug/l   | 97       |
| 85) 1,2-Dichlorobenzene        | 11.88 | 146  | 21710    | 1.205 | ug/l   | 100      |
| 86) 1,2-Dibromo-3-Chloropropan | 12.66 | 75   | 1396     | 1.280 | ug/l   | 96       |
| 87) 1,2,4-Trichlorobenzene     | 13.51 | 180  | 14634    | 1.123 | ug/l   | 97       |
| 88) Hexachlorobutadiene        | 13.70 | 225  | 9674     | 1.225 | ug/l   | 94       |
| 89) Naphthalene                | 13.75 | 128  | 22108    | 1.127 | ug/l   | 99       |
| 90) 1,2,3-Trichlorobenzene     | 13.99 | 180  | 13461    | 1.101 | ug/l   | 98       |

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





#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 5.75 min Scan# 1604

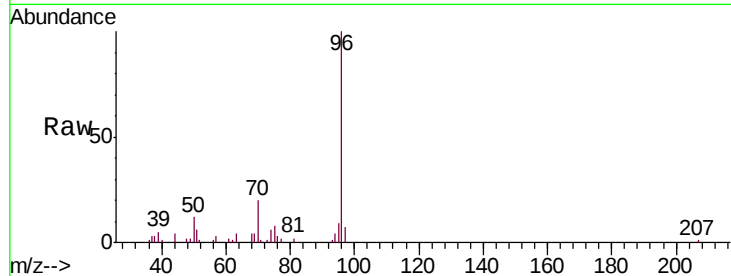
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Lab File: VU025627.D

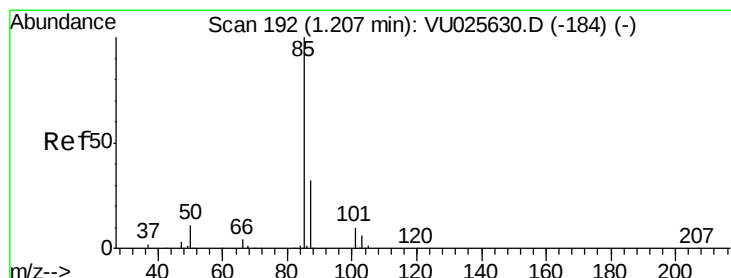
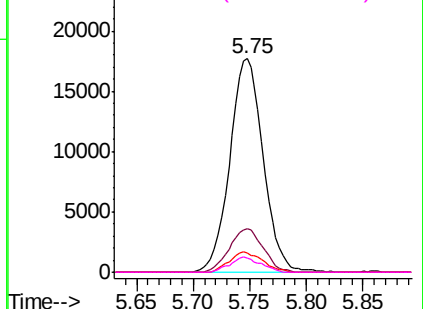
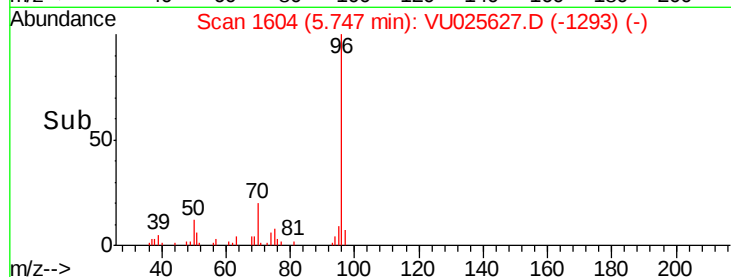
Acq: 25 Jul 2018 10:13

Instrument :  
MSVOA\_U  
ClientSampled :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 96    | Resp: | 36351 |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 70       | 20.5  | 16.2  | 24.4  |
| 95       | 9.3   | 6.9   | 10.3  |
| 97       | 6.4   | 0.0   | 0.0#  |



Abundance Ion 96.00 (95.70 to 96.70): VU0  
Ion 70.00 (69.70 to 70.70): VU0  
Ion 95.00 (94.70 to 95.70): VU0  
Ion 97.00 (96.70 to 97.70): VU0



#2

Dichlorodifluoromethane

Concen: 1.064 ug/l

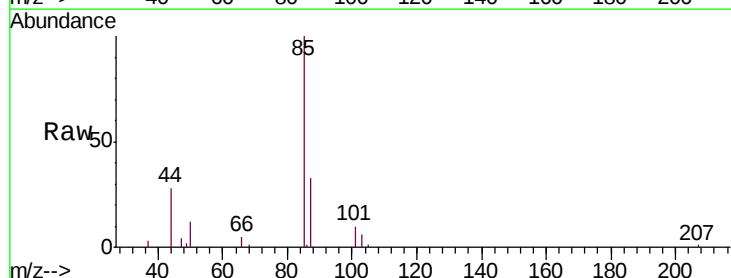
RT: 1.21 min Scan# 192

Delta R.T. 0.00 min

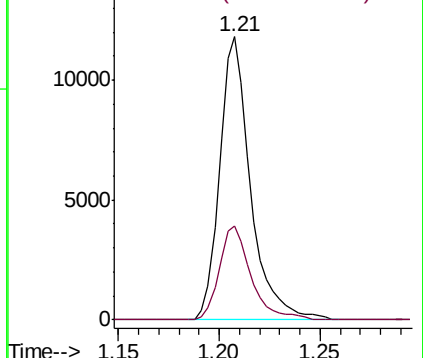
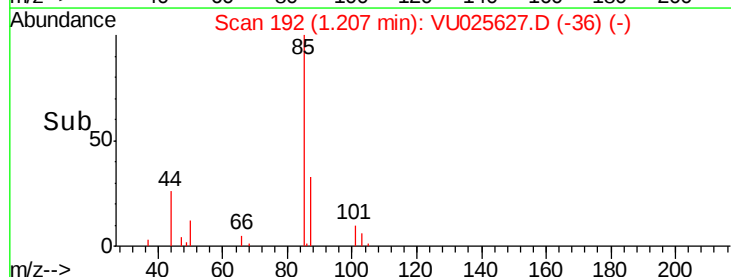
Lab File: VU025627.D

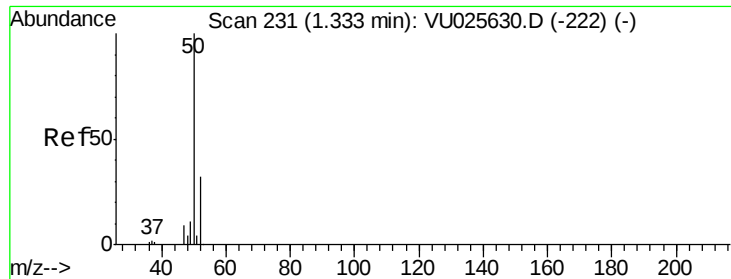
Acq: 25 Jul 2018 10:13

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 85    | Resp: | 12557 |
| Ion      | Ratio | Lower | Upper |
| 85       | 100   |       |       |
| 87       | 33.4  | 16.2  | 48.5  |



Abundance Ion 85.00 (84.70 to 85.70): VU0  
Ion 87.00 (86.70 to 87.70): VU0

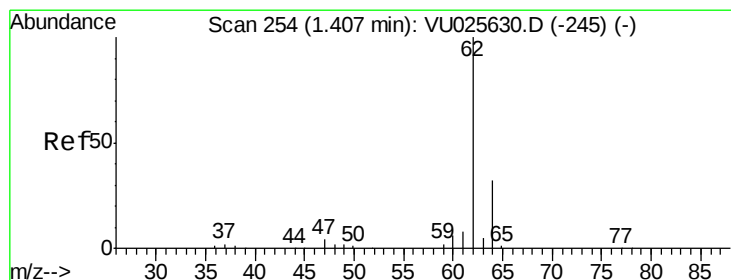
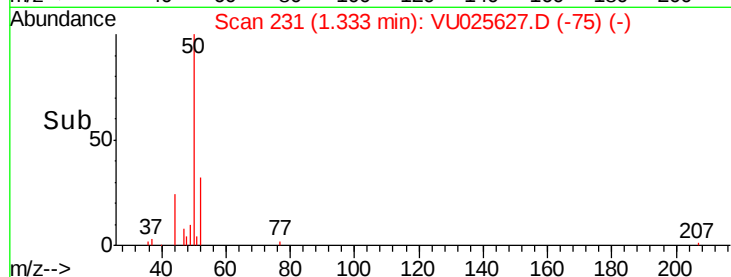
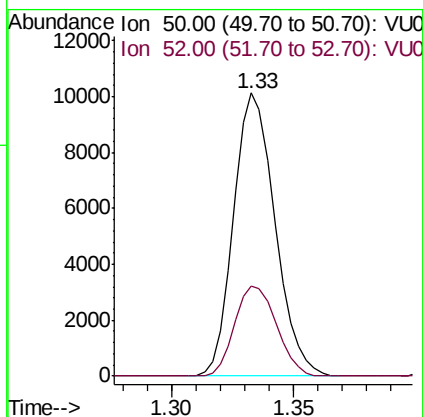
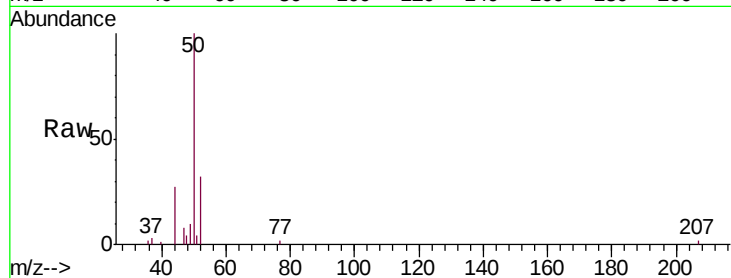




#3  
Chloromethane  
Concen: 0.871 ug/l  
RT: 1.33 min Scan# 231  
Delta R.T. 0.00 min  
Lab File: VU025627.D  
Acq: 25 Jul 2018 10:13

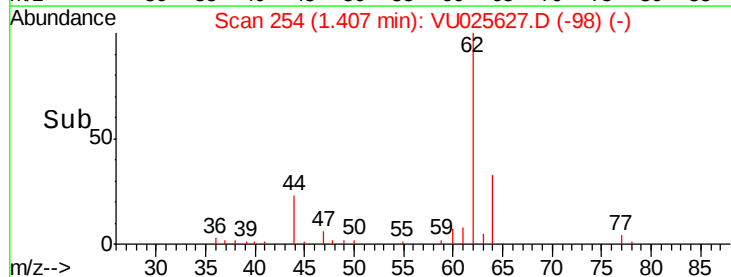
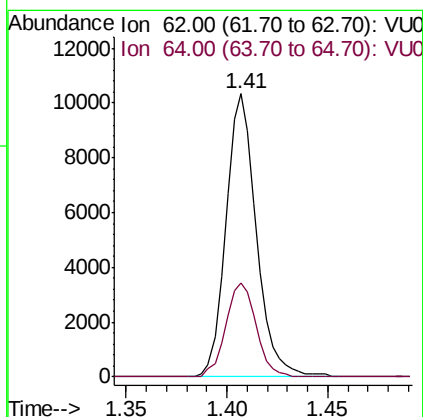
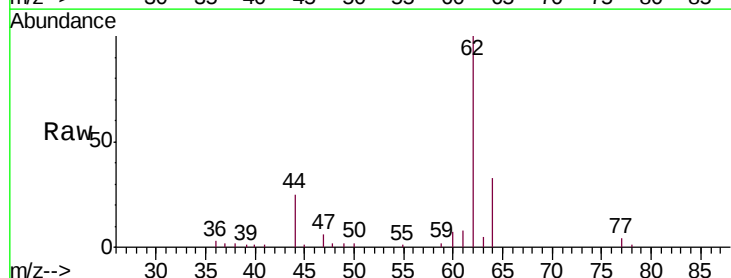
Instrument :  
MSVOA\_U  
ClientSampleId :

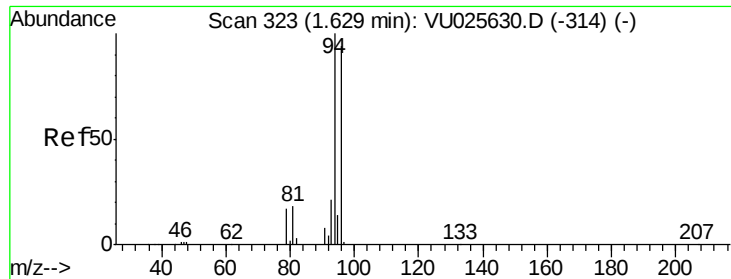
Tot Ion: 50 Resp: 11916  
Ion Ratio Lower Upper  
50 100  
52 32.0 26.0 39.0



#4  
Vinyl Chloride  
Concen: 0.832 ug/l  
RT: 1.41 min Scan# 254  
Delta R.T. 0.00 min  
Lab File: VU025627.D  
Acq: 25 Jul 2018 10:13

Tgt Ion: 62 Resp: 10911  
Ion Ratio Lower Upper  
62 100  
64 33.2 25.8 38.8





#5

Bromomethane

Concen: 0.809 ug/l

RT: 1.63 min Scan# 324

Delta R.T. 0.00 min

Lab File: VU025627.D

Acq: 25 Jul 2018 10:13

Instrument :

MSVOA\_U

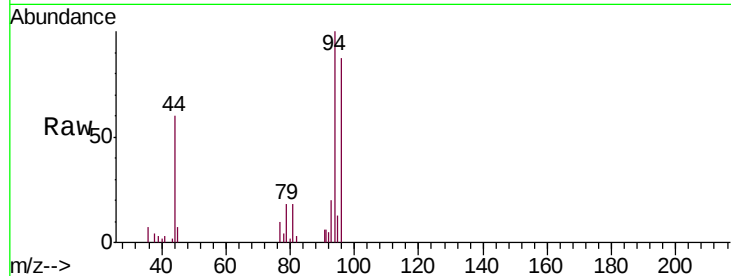
ClientSampled :

Tot Ion: 94 Resp: 5675

Ion Ratio Lower Upper

94 100

96 86.7 75.1 112.7



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

1.63

5000

4000

3000

2000

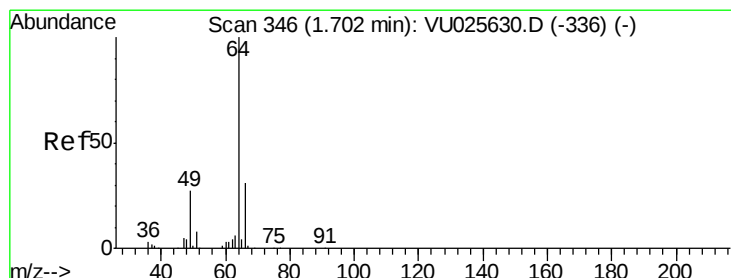
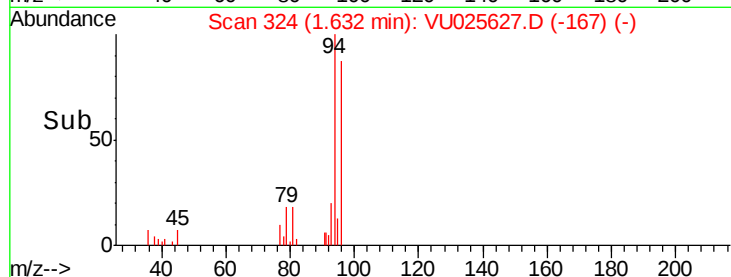
1000

0

Time-->

1.60

1.65



#6

Chloroethane

Concen: 0.898 ug/l

RT: 1.70 min Scan# 346

Delta R.T. 0.00 min

Lab File: VU025627.D

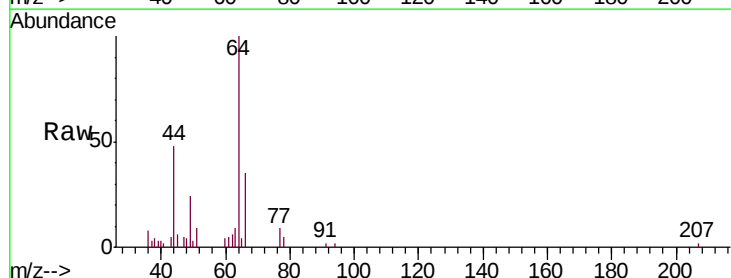
Acq: 25 Jul 2018 10:13

Tgt Ion: 64 Resp: 6555

Ion Ratio Lower Upper

64 100

66 35.4 24.9 37.3



Abundance Ion 64.00 (63.70 to 64.70): VU0

Ion 66.00 (65.70 to 66.70): VU0

6000

5000

4000

3000

2000

1000

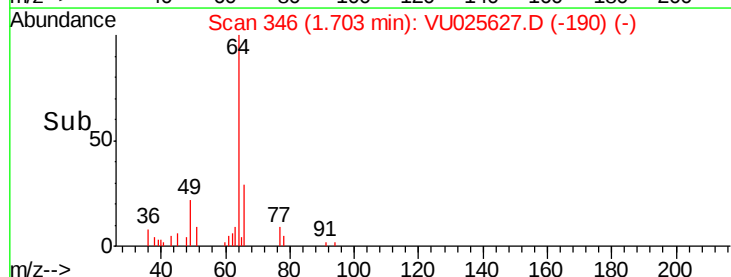
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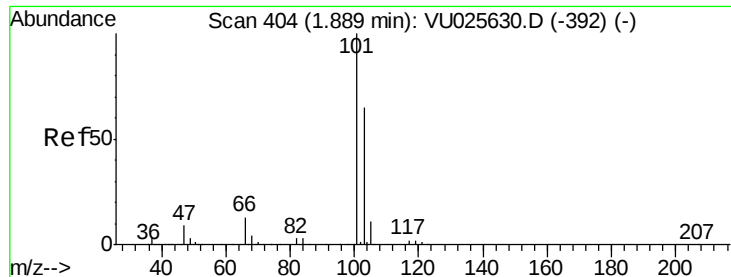
Time-->

1.65

1.70

1.75



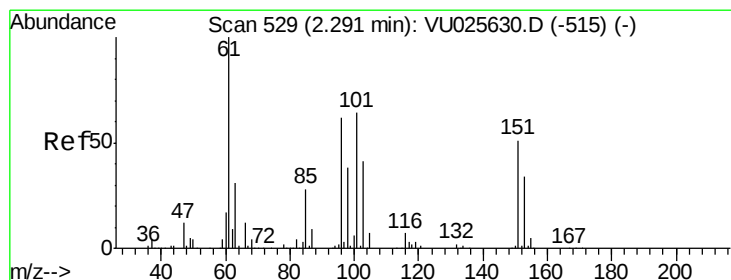
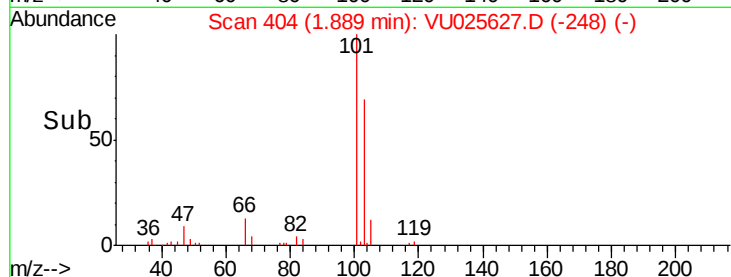
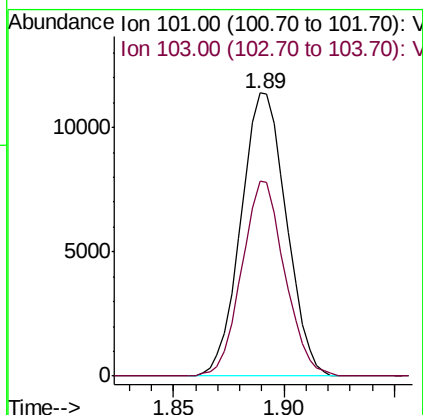
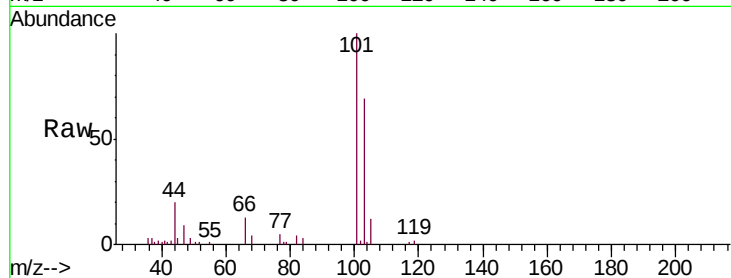


#7

Trichlorofluoromethane  
 Concen: 1.080 ug/l  
 RT: 1.89 min Scan# 404  
 Delta R.T. 0.00 min  
 Lab File: VU025627.D  
 Acq: 25 Jul 2018 10:13

Instrument :  
 MSVOA\_U  
 ClientSampleId :

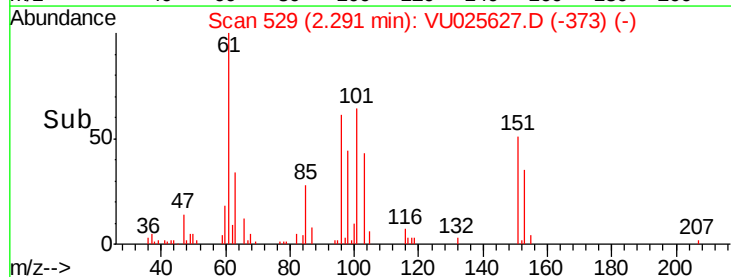
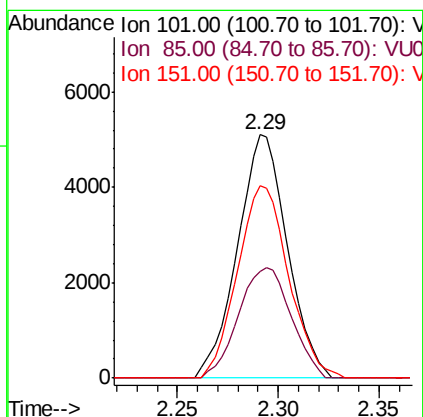
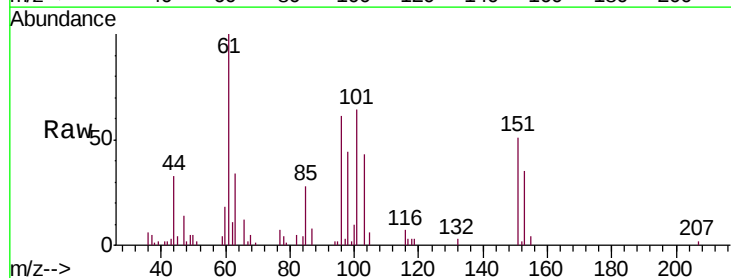
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 Ion Ratio Lower Upper  
 101 100  
 103 68.7 51.4 77.0

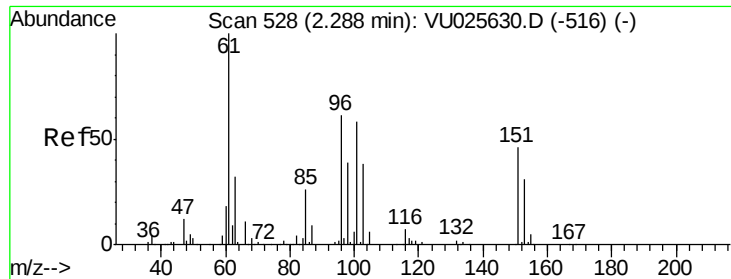


#8

1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 0.952 ug/l  
 RT: 2.29 min Scan# 529  
 Delta R.T. 0.00 min  
 Lab File: VU025627.D  
 Acq: 25 Jul 2018 10:13

Tgt Ion:101 Resp: 8808  
 Ion Ratio Lower Upper  
 101 100  
 85 47.8 35.2 52.8  
 151 81.3 63.5 95.3





#9

1,1-Dichloroethene

Concen: 0.919 ug/l

RT: 2.29 min Scan# 528

Delta R.T. 0.00 min

Lab File: VU025627.D

Acq: 25 Jul 2018 10:13

Instrument :  
MSVOA\_U  
ClientSampleId :

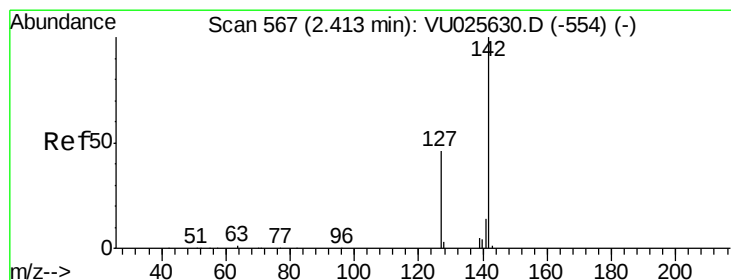
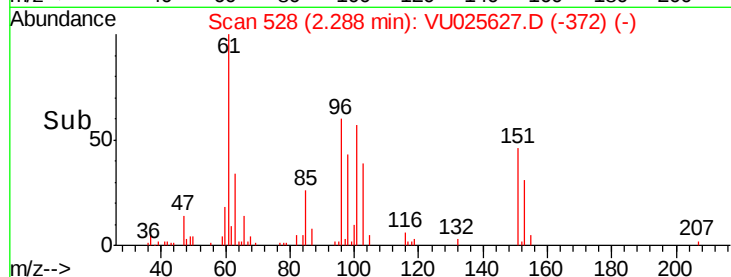
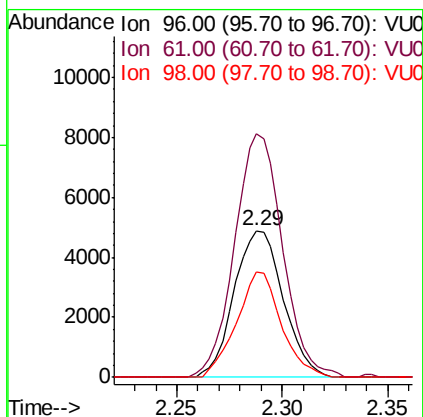
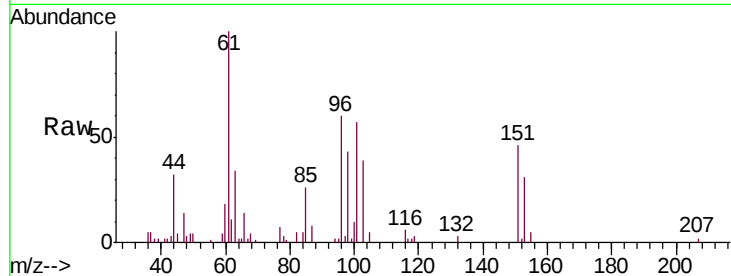
Tot Ion: 96 Resp: 7893

Ion Ratio Lower Upper

96 100

61 166.2 0.0 526.5

98 71.9 0.0 123.4



#10

Iodomethane

Concen: 0.342 ug/l

RT: 2.41 min Scan# 567

Delta R.T. 0.00 min

Lab File: VU025627.D

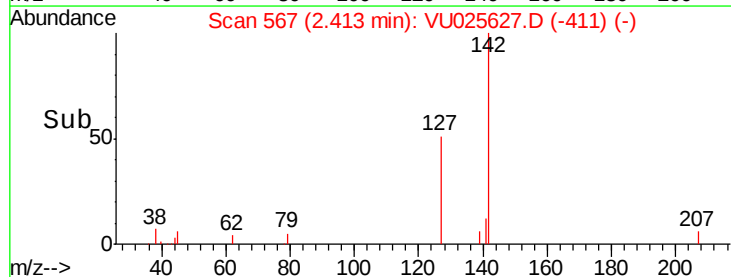
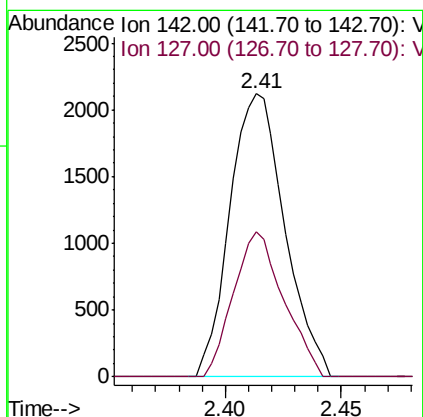
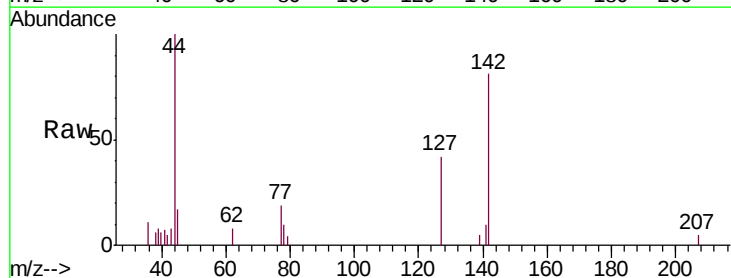
Acq: 25 Jul 2018 10:13

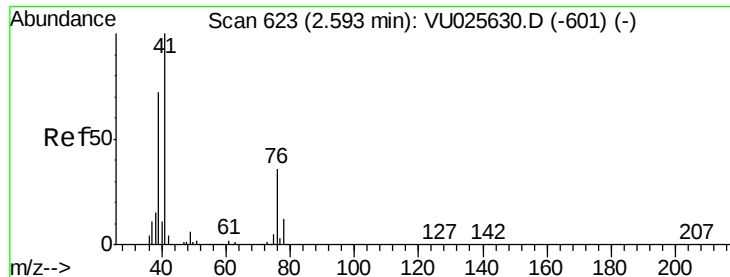
Tgt Ion: 142 Resp: 3488

Ion Ratio Lower Upper

142 100

127 46.8 34.5 51.7

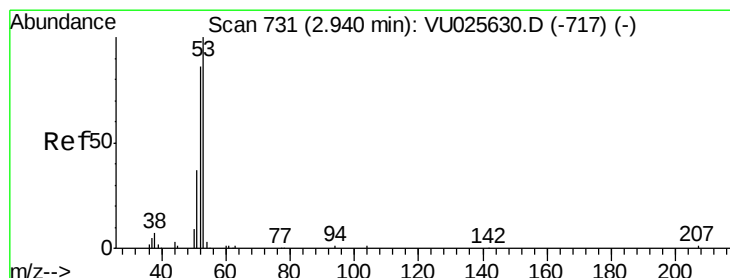
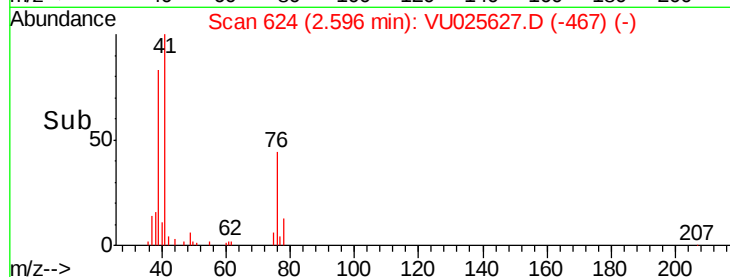
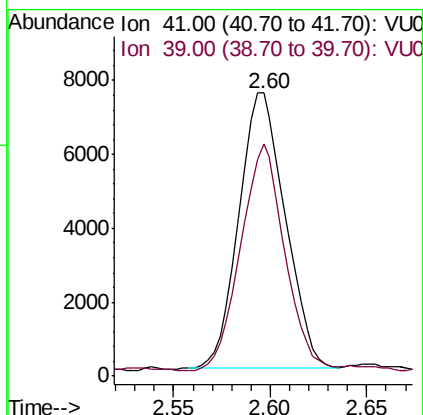
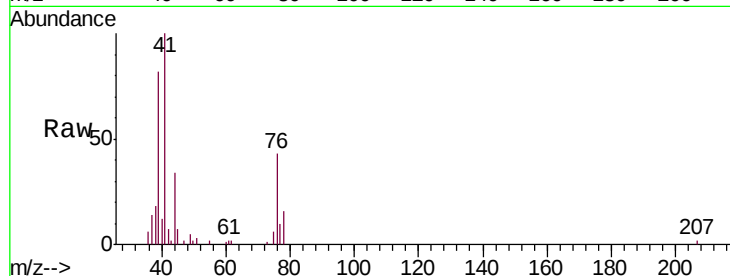




#11  
Allvl Chloride  
Concen: 0.786 ug/l  
RT: 2.60 min Scan# 624  
Delta R.T. 0.00 min  
Lab File: VU025627.D  
Acq: 25 Jul 2018 10:13

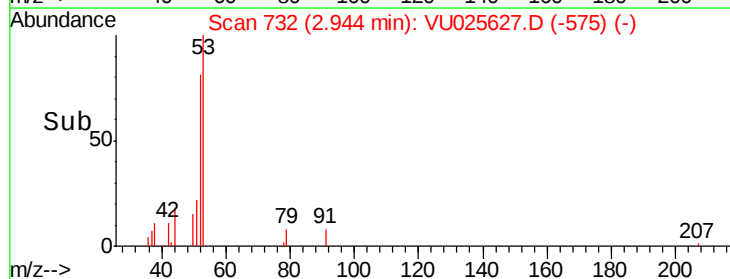
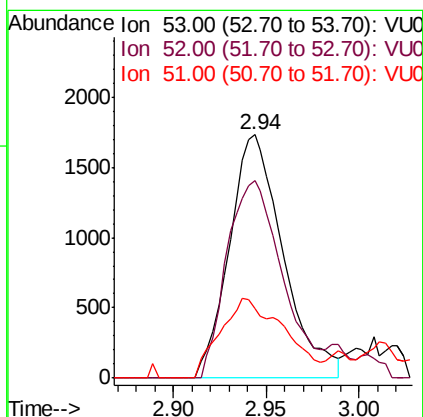
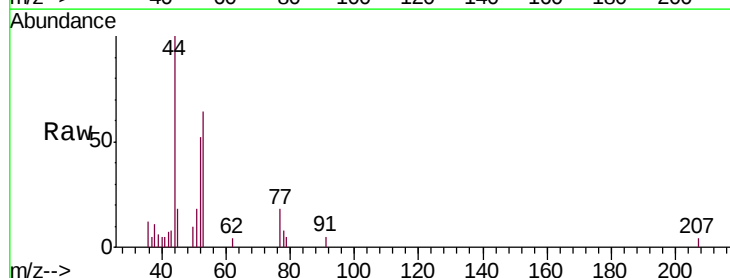
Instrument :  
MSVOA\_U  
ClientSampleId :

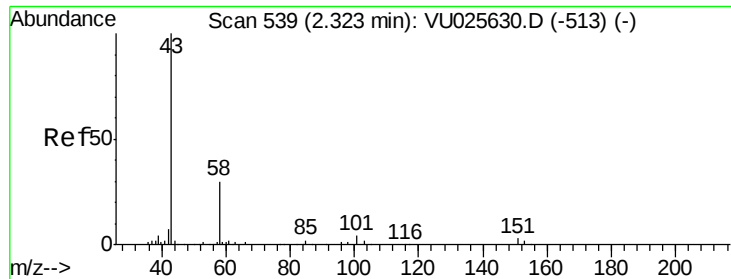
Tot Ion: 41 Resp: 12410  
Ion Ratio Lower Upper  
41 100  
39 78.5 51.4 77.2#



#12  
Acrylonitrile  
Concen: 1.967 ug/l  
RT: 2.94 min Scan# 732  
Delta R.T. 0.00 min  
Lab File: VU025627.D  
Acq: 25 Jul 2018 10:13

Tgt Ion: 53 Resp: 3486  
Ion Ratio Lower Upper  
53 100  
52 83.3 65.1 97.7  
51 39.2 30.2 45.4





#13

Acetone

Concen: 4.783 ug/l

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU025627.D

Acq: 25 Jul 2018 10:13

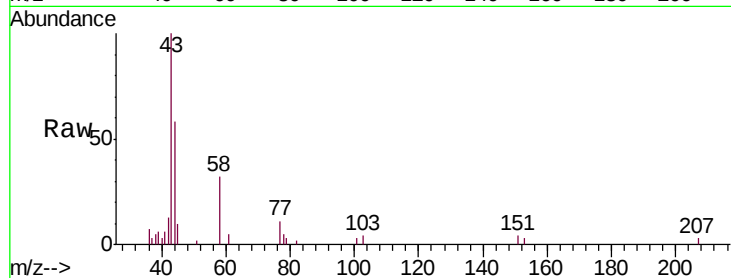
Instrument :  
MSVOA\_U  
ClientSampled :

Tot Ion: 43 Resp: 7195

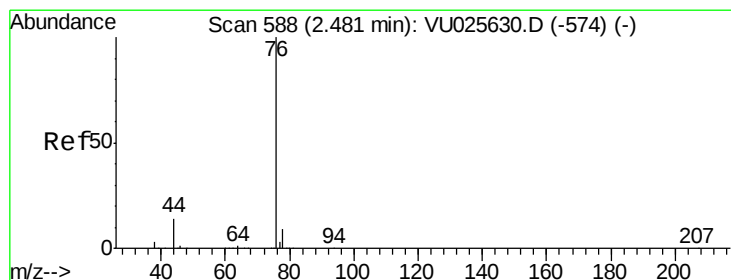
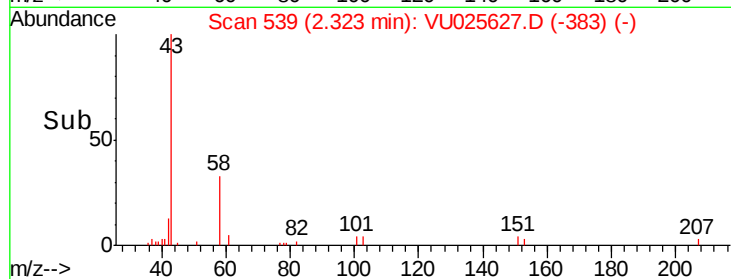
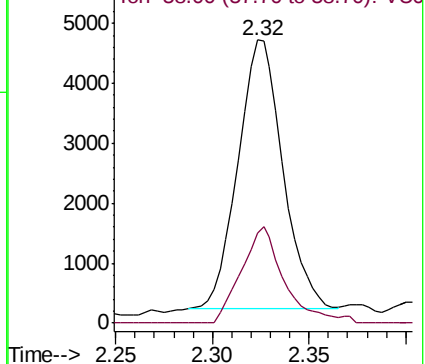
Ion Ratio Lower Upper

43 100

58 33.5 26.0 39.0



Abundance Ion 43.00 (42.70 to 43.70): VU0  
Ion 58.00 (57.70 to 58.70): VU0



#14

Carbon Disulfide

Concen: 0.934 ug/l

RT: 2.48 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU025627.D

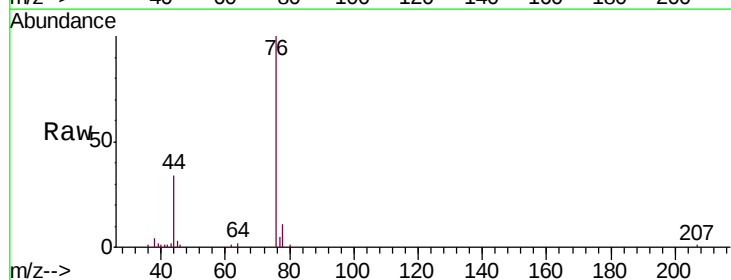
Acq: 25 Jul 2018 10:13

Tgt Ion: 76 Resp: 26392

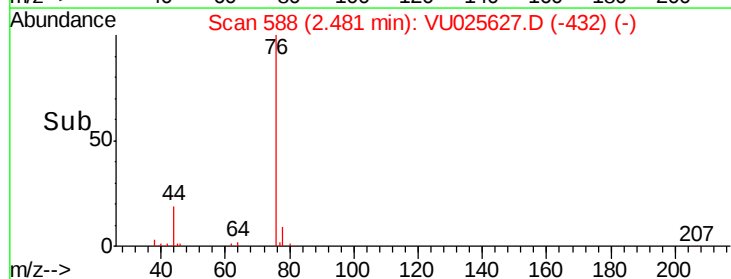
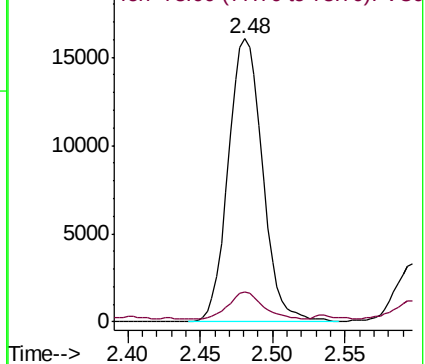
Ion Ratio Lower Upper

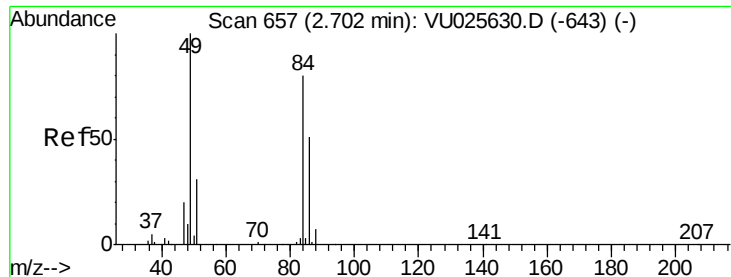
76 100

78 9.4 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VU0  
Ion 78.00 (77.70 to 78.70): VU0

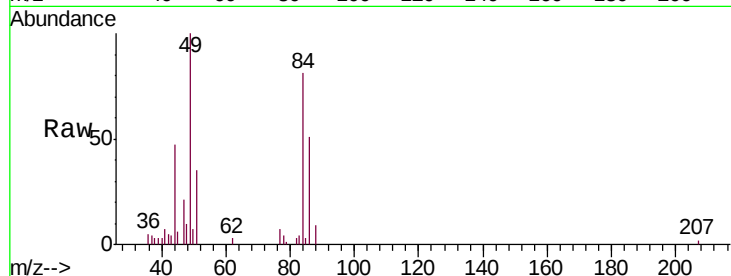




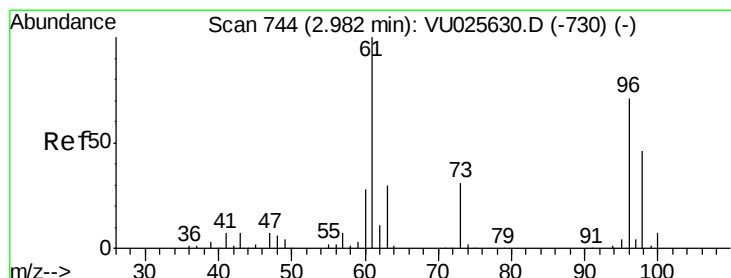
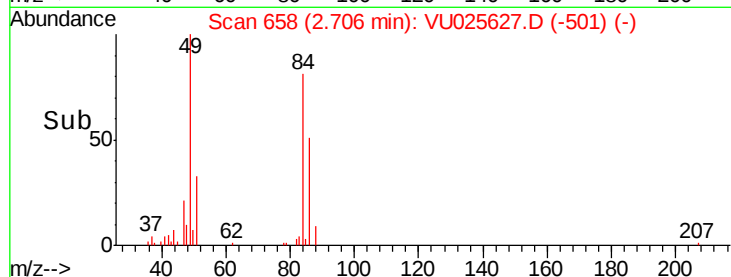
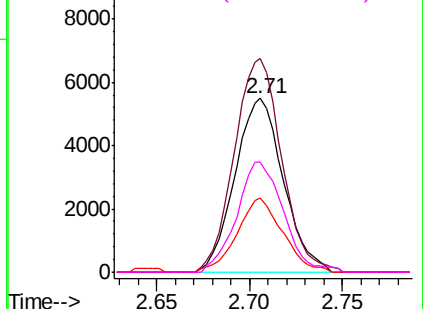
#15  
Methvlene Chloride  
Concen: 1.016 ug/l  
RT: 2.71 min Scan# 658  
Delta R.T. 0.00 min  
Lab File: VU025627.D  
Acq: 25 Jul 2018 10:13

Instrument :  
MSVOA\_U  
ClientSampled :

Tot Ion: 84 Resp: 9939  
Ion Ratio Lower Upper  
84 100  
49 122.9 108.7 163.1  
51 42.8 0.0 82.4  
86 63.1 50.7 76.1

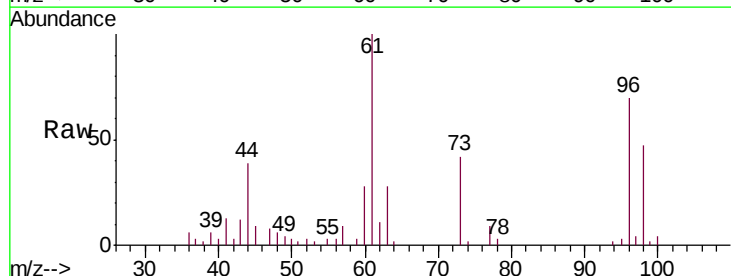


Abundance Ion 84.00 (83.70 to 84.70): VU0  
Ion 49.00 (48.70 to 49.70): VU0  
Ion 51.00 (50.70 to 51.70): VU0  
Ion 86.00 (85.70 to 86.70): VU0

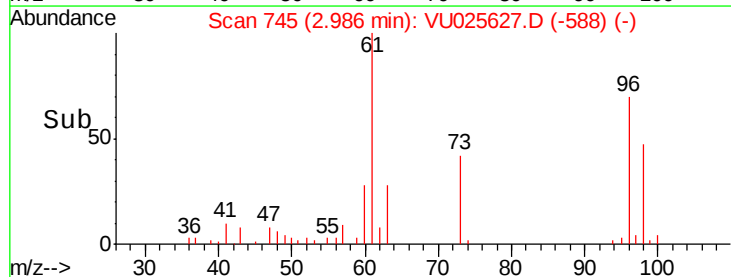
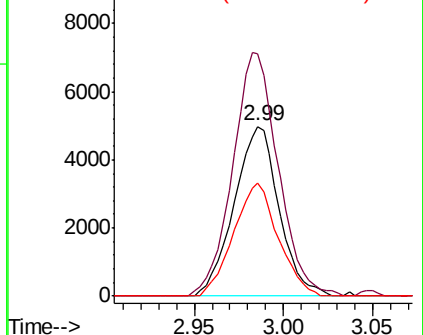


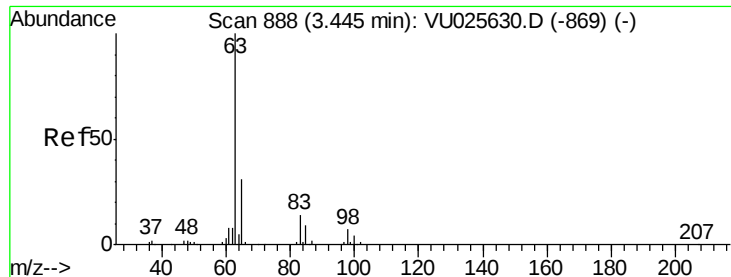
#16  
trans-1,2-Dichloroethene  
Concen: 0.951 ug/l  
RT: 2.99 min Scan# 745  
Delta R.T. 0.00 min  
Lab File: VU025627.D  
Acq: 25 Jul 2018 10:13

Tgt Ion: 96 Resp: 8748  
Ion Ratio Lower Upper  
96 100  
61 142.9 123.9 185.9  
98 66.8 50.6 76.0



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





#17

1,1-Dichloroethane

Concen: 0.923 ug/l

RT: 3.45 min Scan# 889

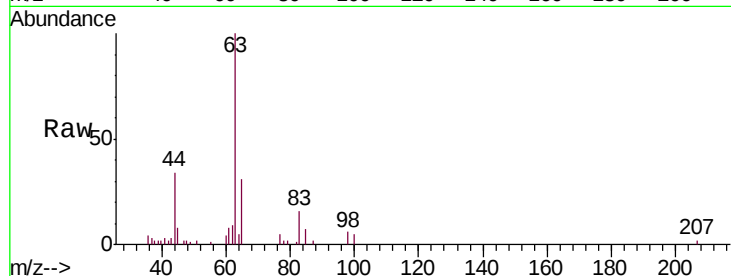
Delta R.T. 0.00 min

Lab File: VU025627.D

Acq: 25 Jul 2018 10:13

Instrument :  
MSVOA\_U  
ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 63    | Resp: | 16730 |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 98       | 6.4   | 2.9   | 8.8   |
| 100      | 4.9   | 2.0   | 5.8   |

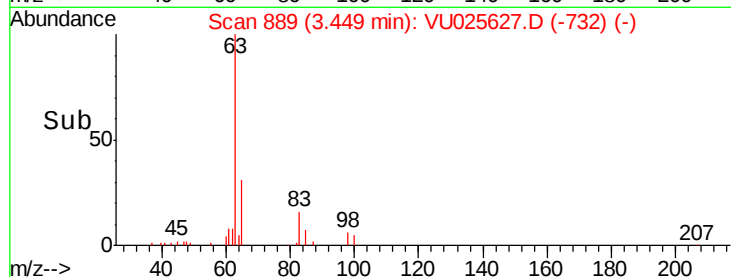


Abundance Ion 63.00 (62.70 to 63.70): VU025627.D (-869) (-)

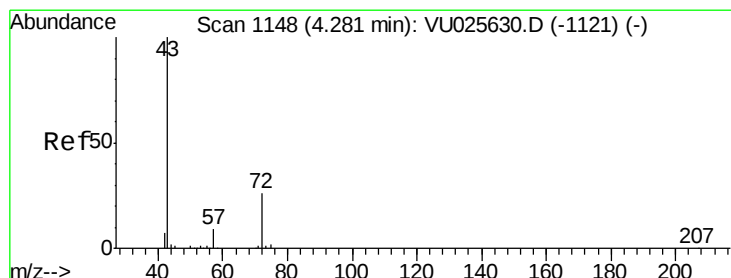
Ion 98.00 (97.70 to 98.70): VU025627.D (-869) (-)

Ion 100.00 (99.70 to 100.70): VU025627.D (-869) (-)

Time-->



Time-->



#18

2-Butanone

Concen: 5.225 ug/l

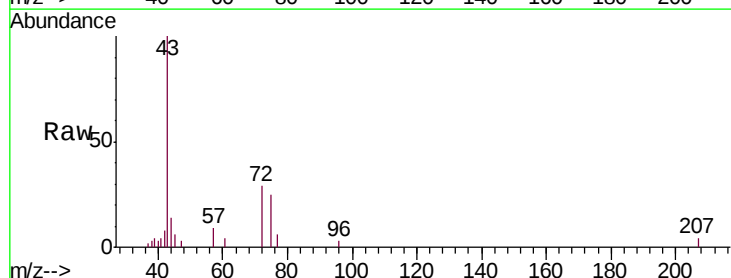
RT: 4.28 min Scan# 1148

Delta R.T. 0.00 min

Lab File: VU025627.D

Acq: 25 Jul 2018 10:13

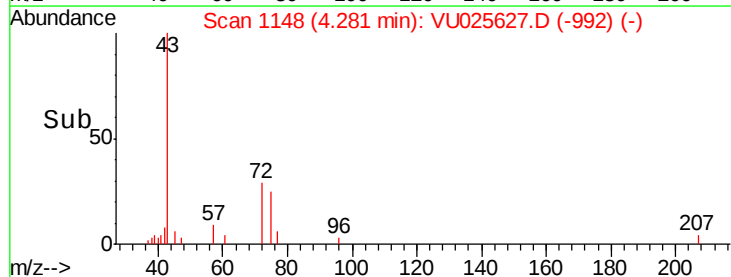
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 12702 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 57       | 9.8   | 0.0   | 15.8  |



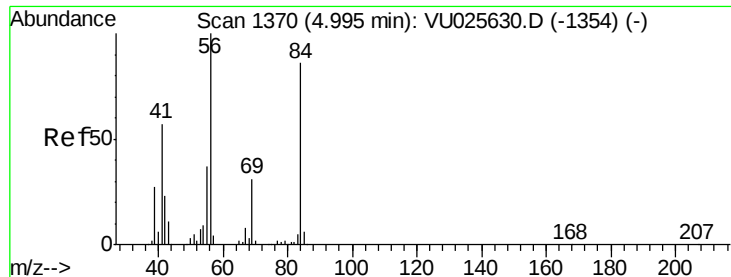
Abundance Ion 43.00 (42.70 to 43.70): VU025627.D (-992) (-)

Ion 57.00 (56.70 to 57.70): VU025627.D (-992) (-)

Time-->



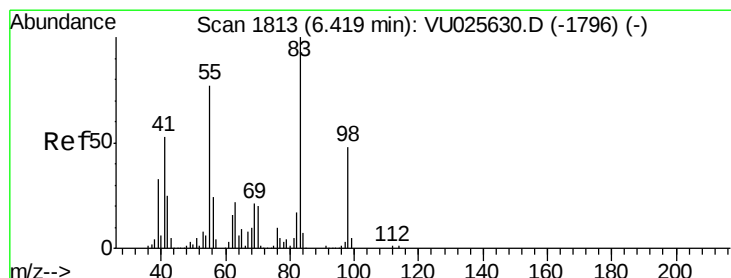
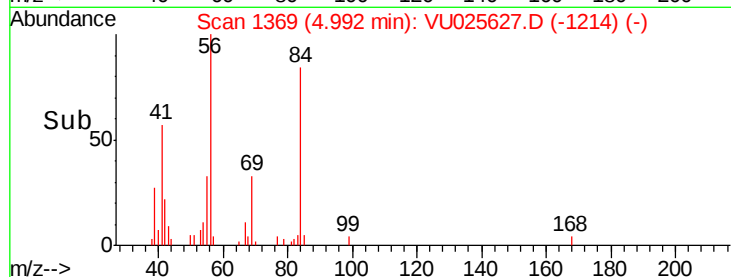
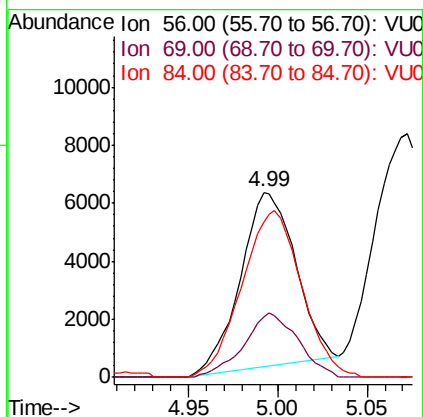
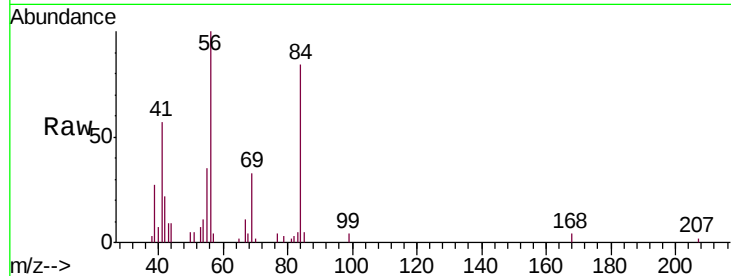
Time-->



#19  
Cyclohexane  
Concen: 0.832 ug/l  
RT: 4.99 min Scan# 1369  
Delta R.T. -0.00 min  
Lab File: VU025627.D  
Acq: 25 Jul 2018 10:13

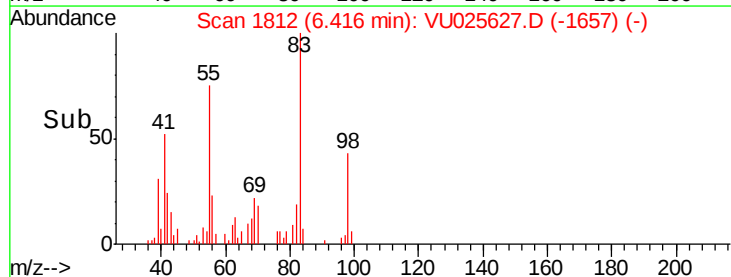
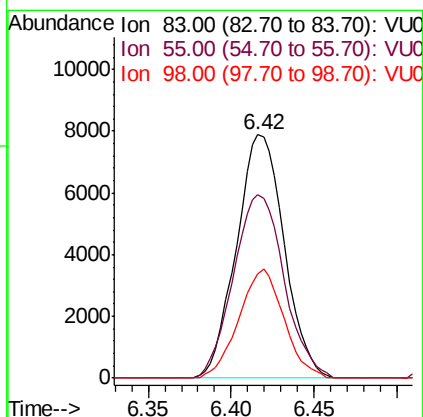
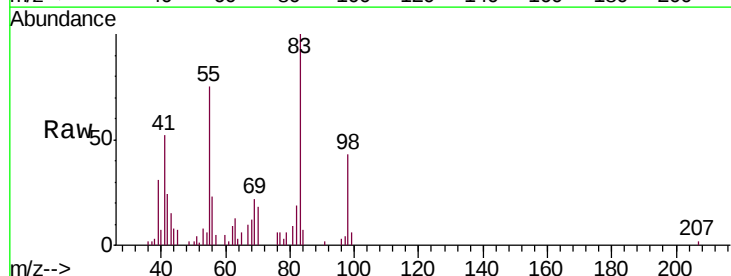
Instrument :  
MSVOA\_U  
ClientSampled :

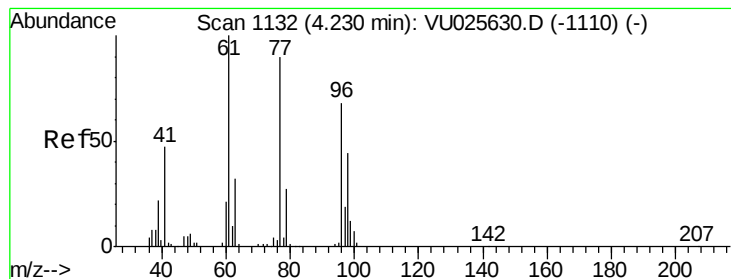
Tot Ion: 56 Resp: 13037  
Ion Ratio Lower Upper  
56 100  
69 36.1 26.0 39.0  
84 103.0 68.3 102.5#



#20  
Methylcyclohexane  
Concen: 0.988 ug/l  
RT: 6.42 min Scan# 1812  
Delta R.T. -0.00 min  
Lab File: VU025627.D  
Acq: 25 Jul 2018 10:13

Tgt Ion: 83 Resp: 15781  
Ion Ratio Lower Upper  
83 100  
55 80.0 66.4 99.6  
98 42.3 35.4 53.2





#21

2,2-Dichloropropane

Concen: 1.187 ug/l

RT: 4.23 min Scan# 1131

Delta R.T. -0.00 min

Lab File: VU025627.D

Acq: 25 Jul 2018 10:13

Instrument :

MSVOA\_U

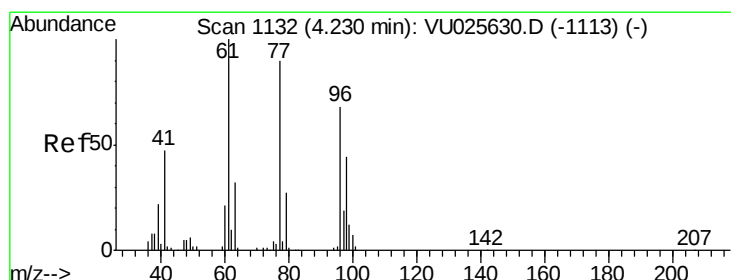
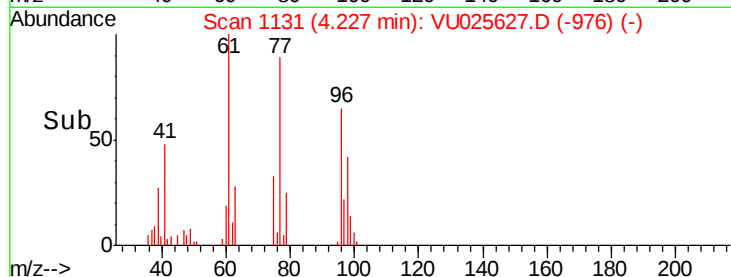
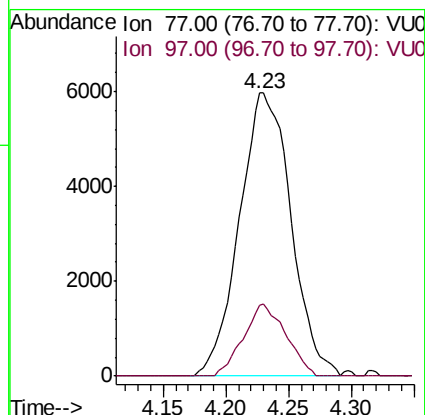
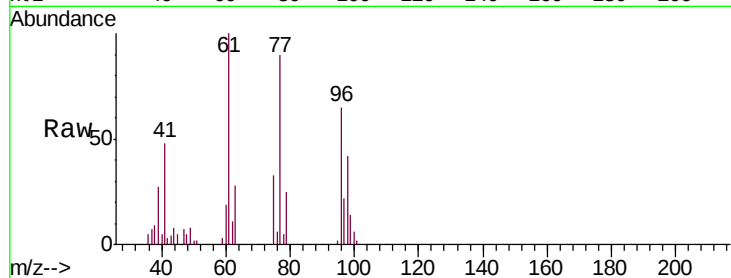
ClientSampleId :

Tot Ion: 77 Resp: 17058

Ion Ratio Lower Upper

77 100

97 20.9 17.9 26.9



#22

cis-1,2-Dichloroethene

Concen: 1.049 ug/l

RT: 4.23 min Scan# 1132

Delta R.T. 0.00 min

Lab File: VU025627.D

Acq: 25 Jul 2018 10:13

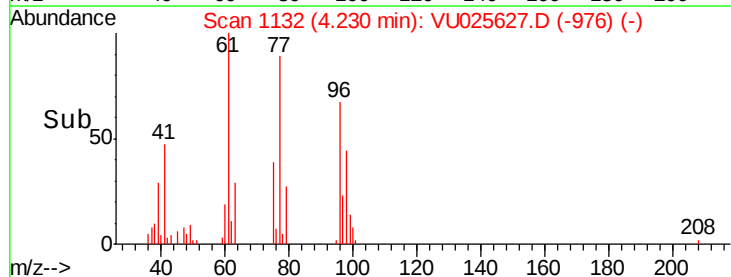
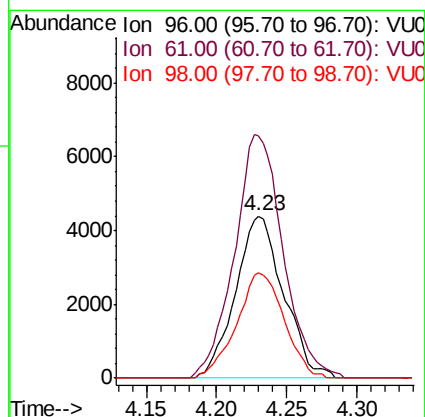
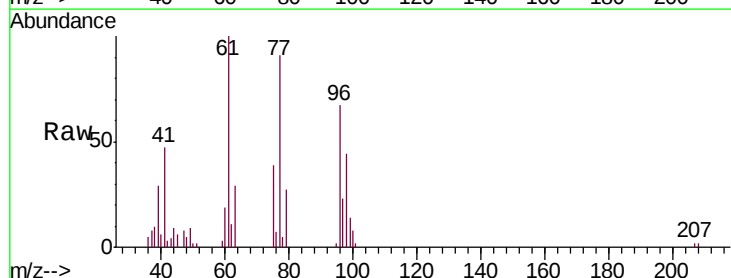
Tgt Ion: 96 Resp: 10449

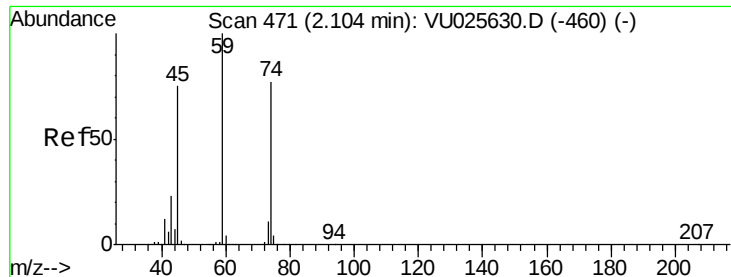
Ion Ratio Lower Upper

96 100

61 152.2 0.0 400.5

98 64.4 32.2 96.6

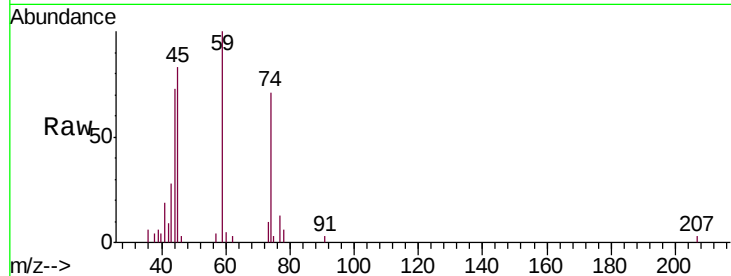




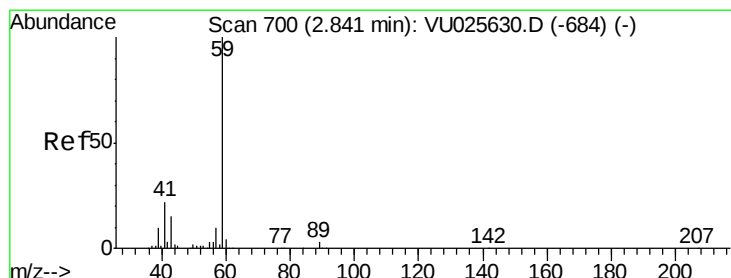
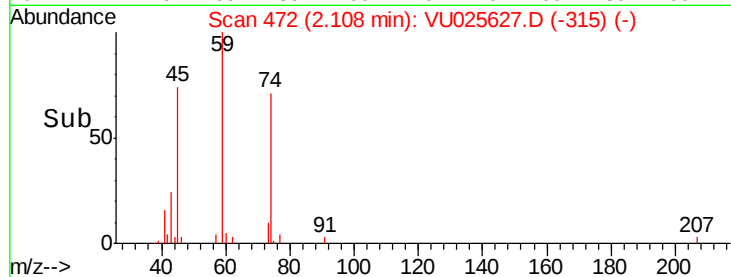
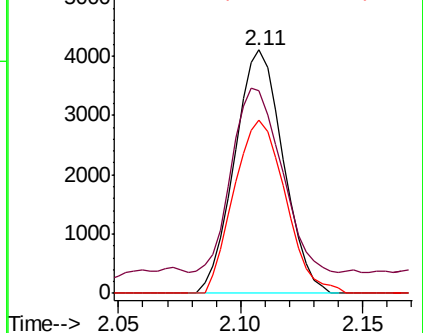
#23  
Diethyl Ether  
Concen: 0.807 ug/l  
RT: 2.11 min Scan# 472  
Delta R.T. 0.00 min  
Lab File: VU025627.D  
Acq: 25 Jul 2018 10:13

Instrument :  
MSVOA\_U  
ClientSampled :

Tot Ion: 59 Resp: 5665  
Ion Ratio Lower Upper  
59 100  
45 77.9 60.0 90.0  
74 75.9 56.5 84.7

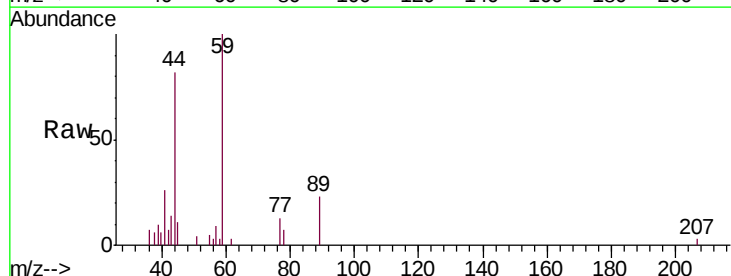


Abundance Ion 59.00 (58.70 to 59.70): VU0  
Ion 45.00 (44.70 to 45.70): VU0  
Ion 74.00 (73.70 to 74.70): VU0

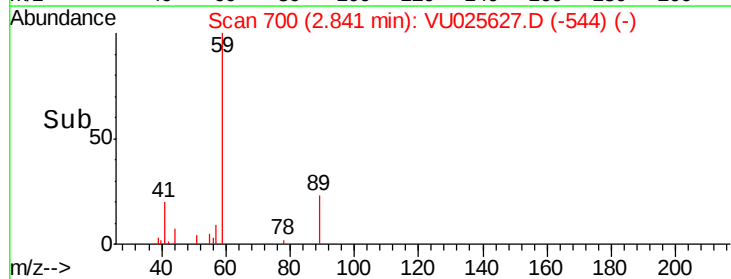
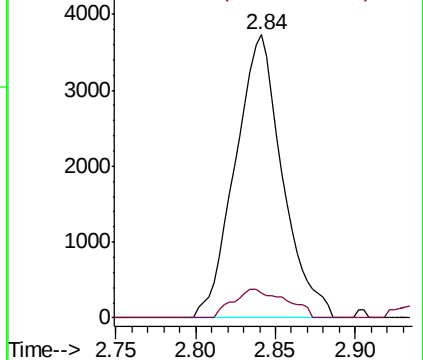


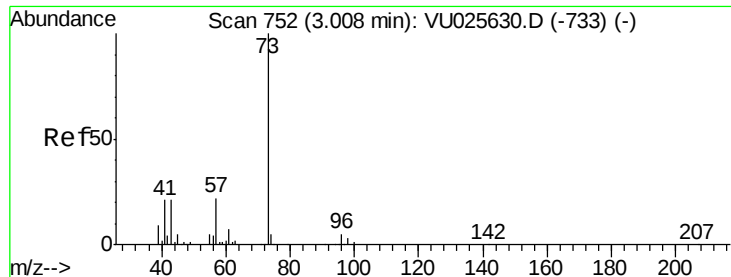
#24  
tert-Butyl Alcohol  
Concen: 14.204 ug/l  
RT: 2.84 min Scan# 700  
Delta R.T. 0.00 min  
Lab File: VU025627.D  
Acq: 25 Jul 2018 10:13

Tgt Ion: 59 Resp: 7521  
Ion Ratio Lower Upper  
59 100  
57 11.4 3.4 5.2#



Abundance Ion 59.00 (58.70 to 59.70): VU0  
Ion 57.00 (56.70 to 57.70): VU0



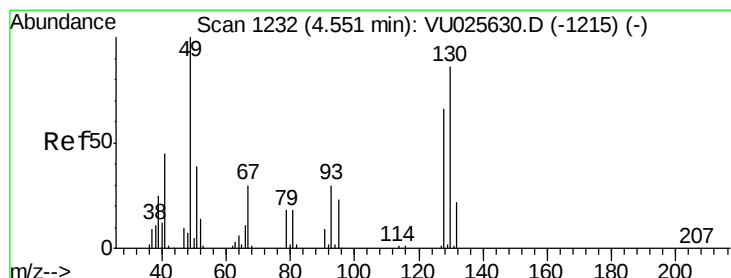
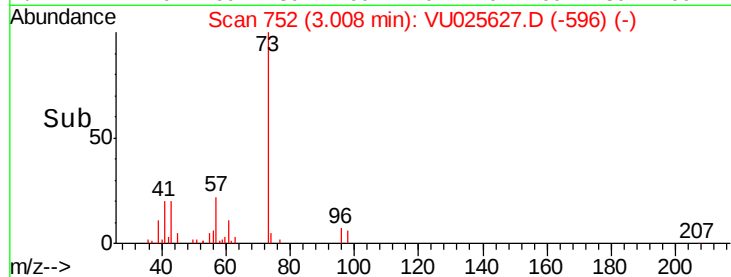
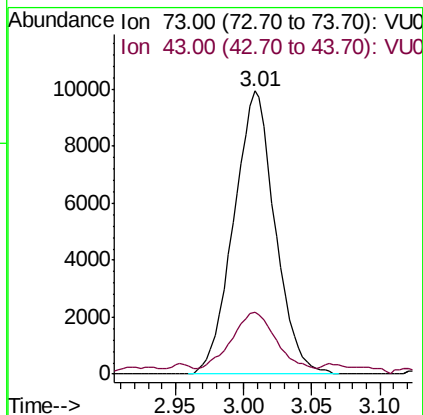
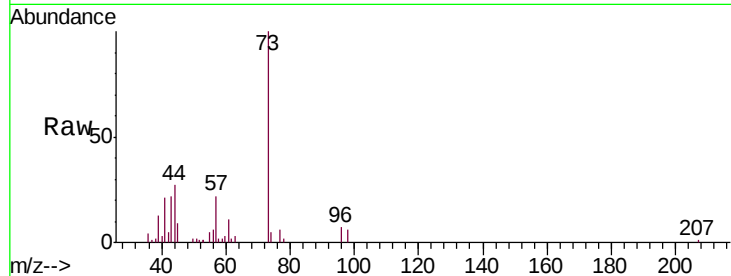


#25

Methyl tert-Butyl Ether  
 Concen: 0.969 ug/l  
 RT: 3.01 min Scan# 752  
 Delta R.T. 0.00 min  
 Lab File: VU025627.D  
 Acq: 25 Jul 2018 10:13

Instrument :  
 MSVOA\_U  
 ClientSampled :

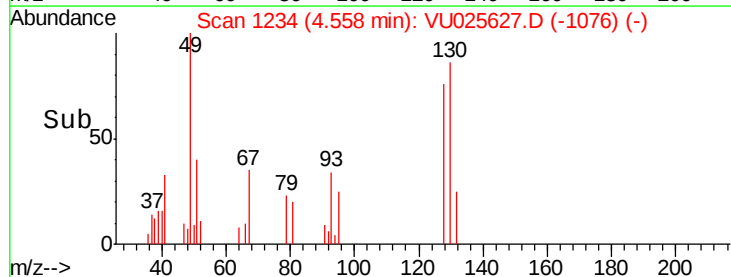
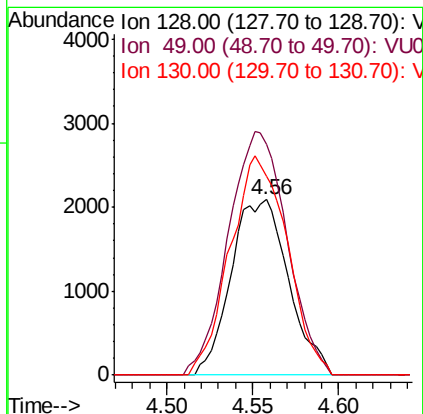
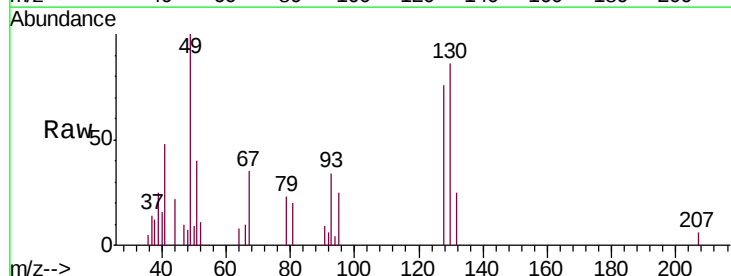
Tot Ion: 73 Resp: 20912  
 Ion Ratio Lower Upper  
 73 100  
 43 20.9 16.2 24.2

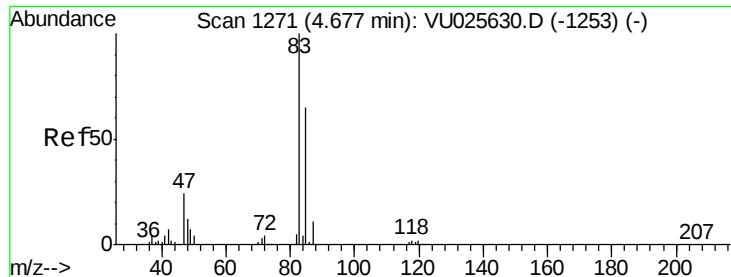


#26

Bromochloromethane  
 Concen: 1.233 ug/l  
 RT: 4.56 min Scan# 1234  
 Delta R.T. 0.01 min  
 Lab File: VU025627.D  
 Acq: 25 Jul 2018 10:13

Tgt Ion: 128 Resp: 4853  
 Ion Ratio Lower Upper  
 128 100  
 49 141.1 0.0 375.2  
 130 124.2 105.8 158.6





#27

Chloroform

Concen: 1.114 ug/l

RT: 4.68 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VU025627.D

Acq: 25 Jul 2018 10:13

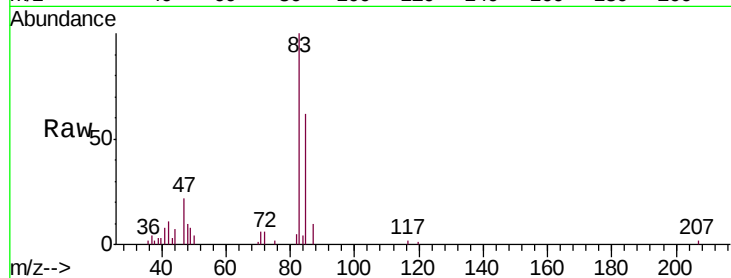
Instrument :  
MSVOA\_U  
ClientSampled :

Tot Ion: 83 Resp: 19020

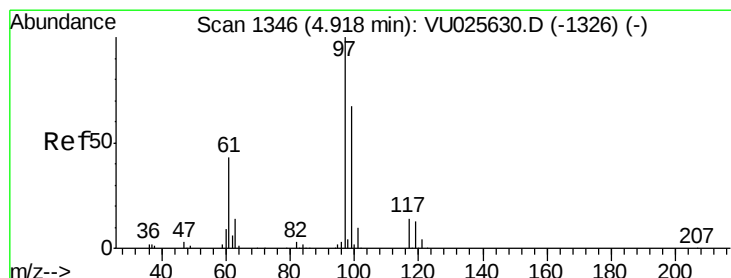
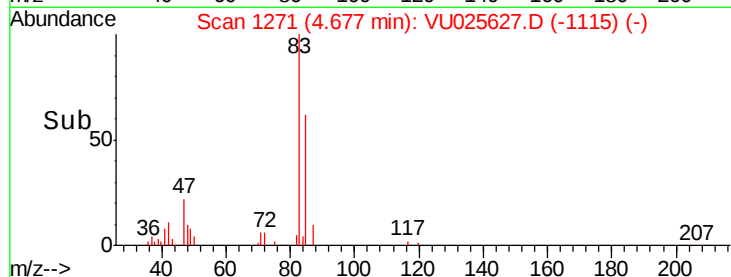
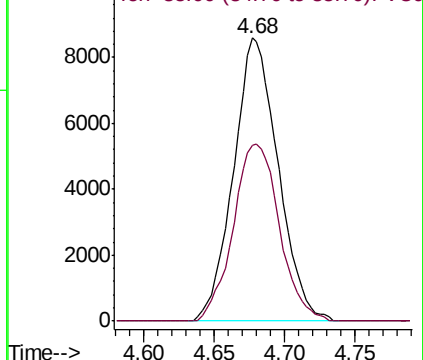
Ion Ratio Lower Upper

83 100

85 62.4 0.0 128.4



Abundance Ion 83.00 (82.70 to 83.70): VU0  
Ion 85.00 (84.70 to 85.70): VU0



#28

1,1,1-Trichloroethane

Concen: 1.274 ug/l

RT: 4.92 min Scan# 1347

Delta R.T. 0.00 min

Lab File: VU025627.D

Acq: 25 Jul 2018 10:13

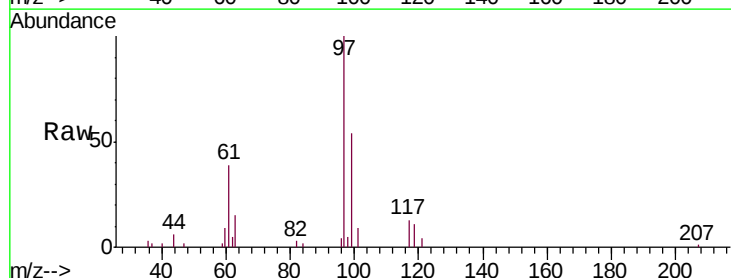
Tgt Ion: 97 Resp: 17843

Ion Ratio Lower Upper

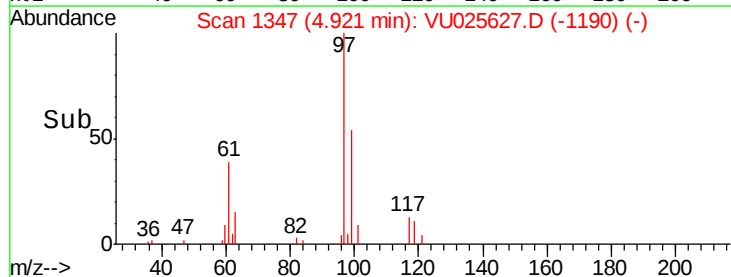
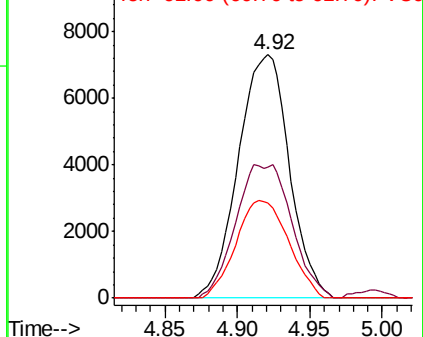
97 100

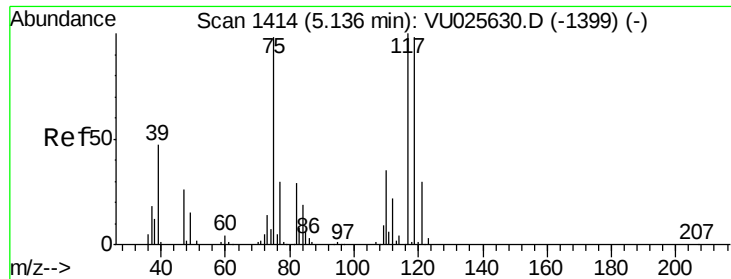
99 31.4 32.3 96.9#

61 41.5 23.2 69.5



Abundance Ion 97.00 (96.70 to 97.70): VU0  
Ion 99.00 (98.70 to 99.70): VU0  
Ion 61.00 (60.70 to 61.70): VU0





#29

1,1-Dichloropropene

Concen: 0.997 ug/l

RT: 5.14 min Scan# 1415

Delta R.T. 0.00 min

Lab File: VU025627.D

Acq: 25 Jul 2018 10:13

Instrument :

MSVOA\_U

ClientSampleId :

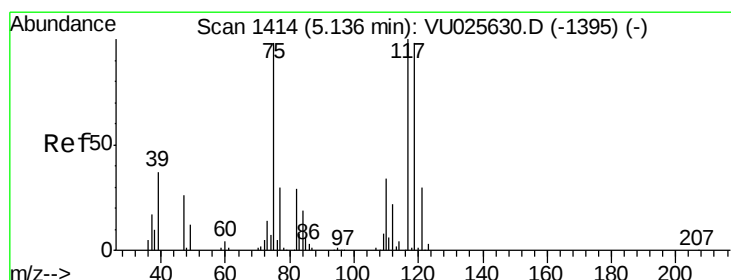
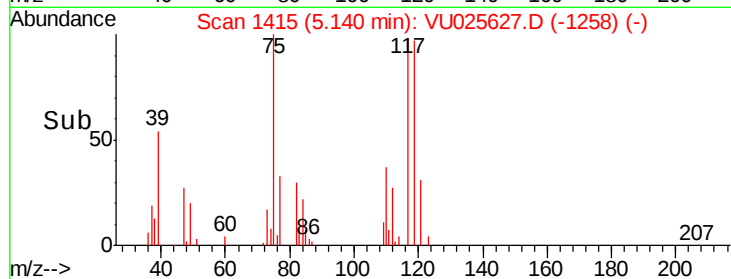
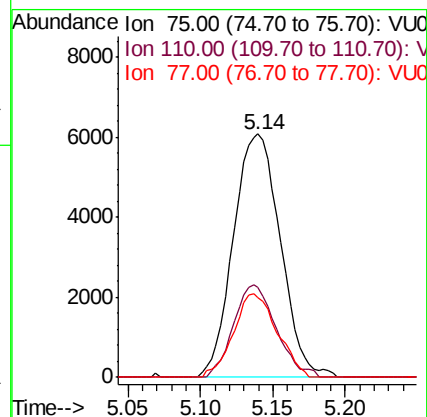
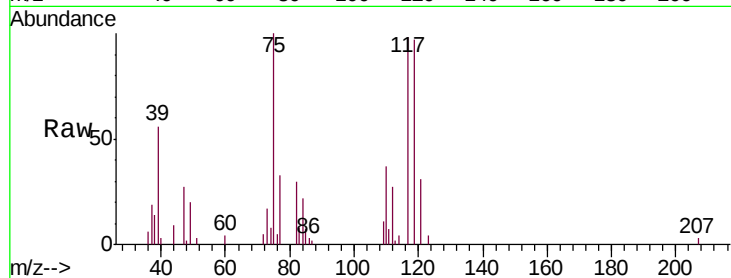
Tot Ion: 75 Resp: 13706

Ion Ratio Lower Upper

75 100

110 34.5 16.9 50.7

77 31.9 24.8 37.2



#30

Carbon Tetrachloride

Concen: 1.221 ug/l

RT: 5.14 min Scan# 1414

Delta R.T. 0.00 min

Lab File: VU025627.D

Acq: 25 Jul 2018 10:13

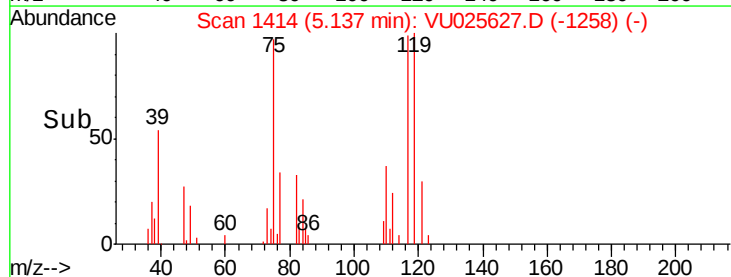
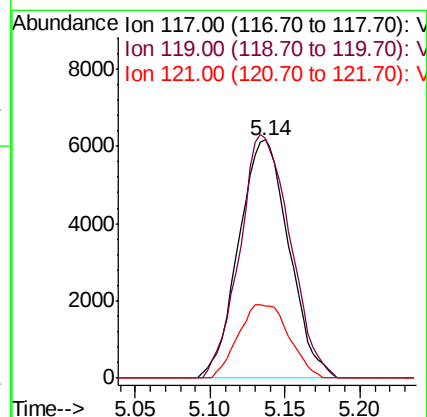
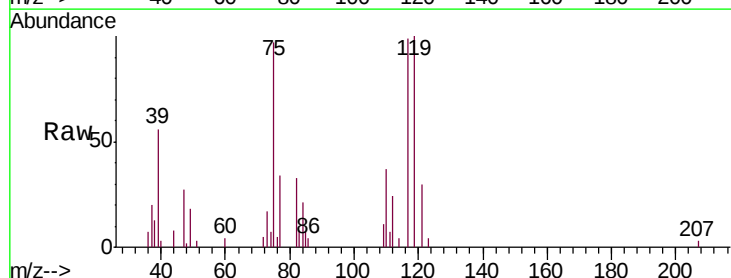
Tgt Ion: 117 Resp: 14385

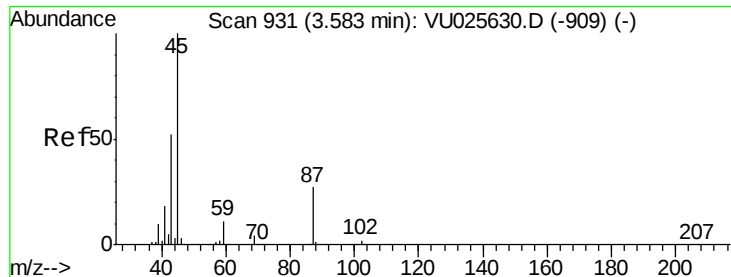
Ion Ratio Lower Upper

117 100

119 100.7 77.3 115.9

121 30.0 24.5 36.7





#31

Isopropyl Ether

Concen: 0.896 ug/l

RT: 3.58 min Scan# 931

Delta R.T. 0.00 min

Lab File: VU025627.D

Acq: 25 Jul 2018 10:13

Instrument :

MSVOA\_U

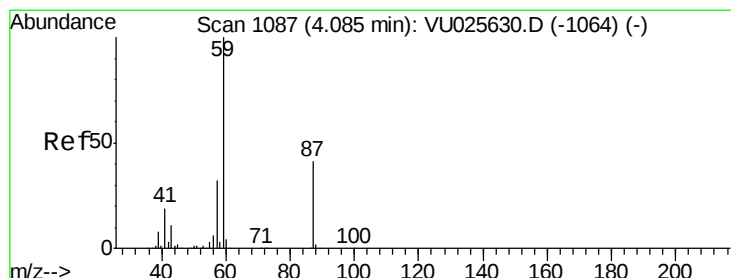
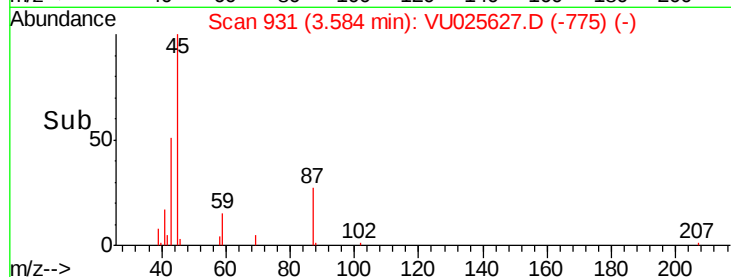
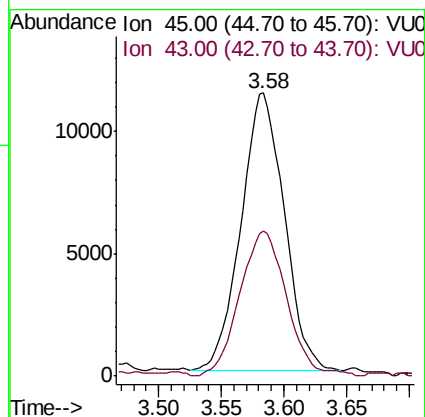
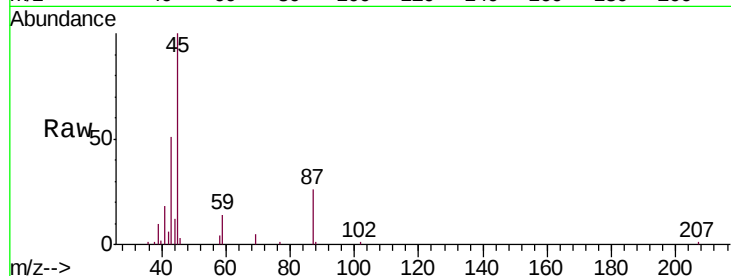
ClientSampleId :

Tot Ion: 45 Resp: 27403

Ion Ratio Lower Upper

45 100

43 56.5 24.0 72.0



#32

Ethyl-t-butyl ether

Concen: 0.975 ug/l

RT: 4.08 min Scan# 1086

Delta R.T. -0.00 min

Lab File: VU025627.D

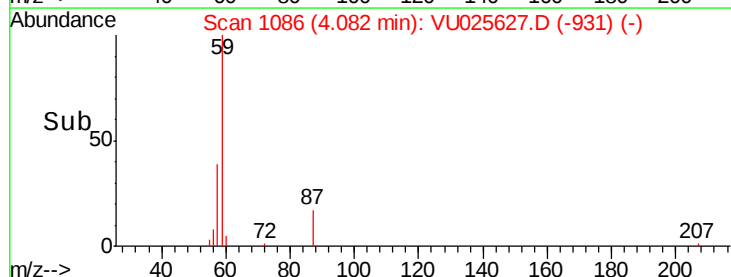
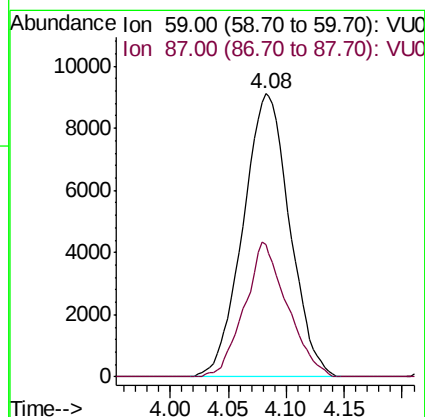
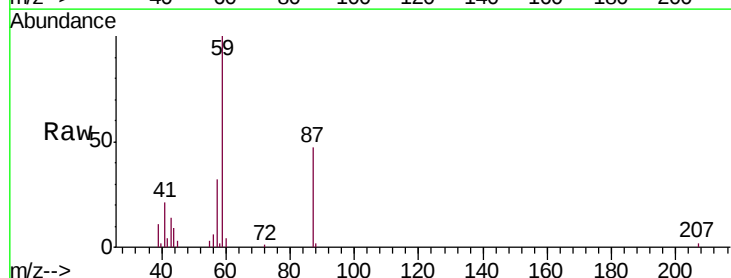
Acq: 25 Jul 2018 10:13

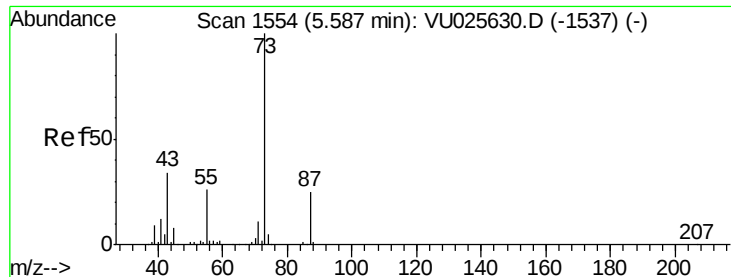
Tgt Ion: 59 Resp: 25490

Ion Ratio Lower Upper

59 100

87 43.7 31.0 46.6

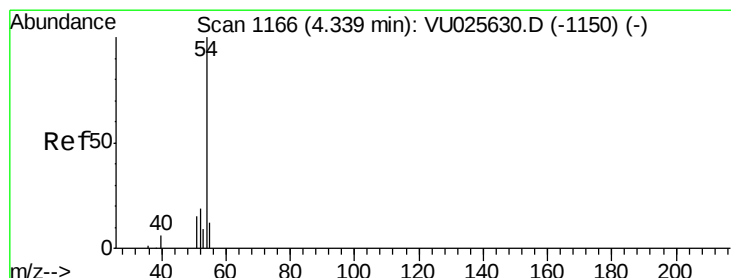
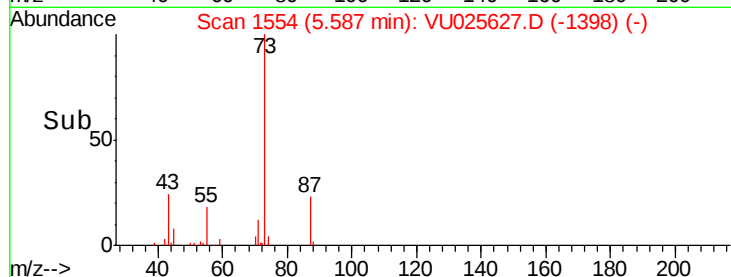
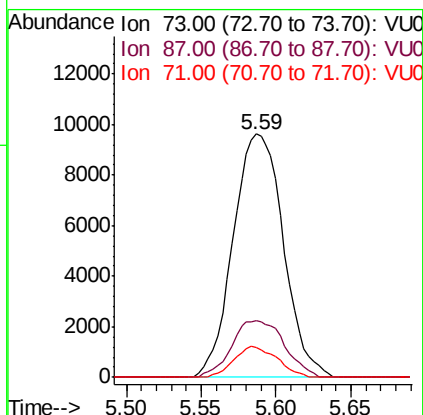
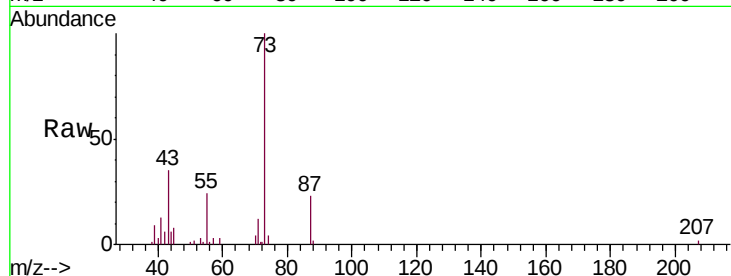




#33  
 Tert-Butyl methyl ether  
 Concen: 1.014 ug/l  
 RT: 5.59 min Scan# 1554  
 Delta R.T. 0.00 min  
 Lab File: VU025627.D  
 Acq: 25 Jul 2018 10:13

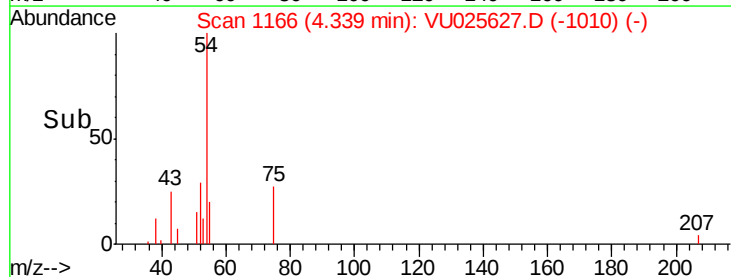
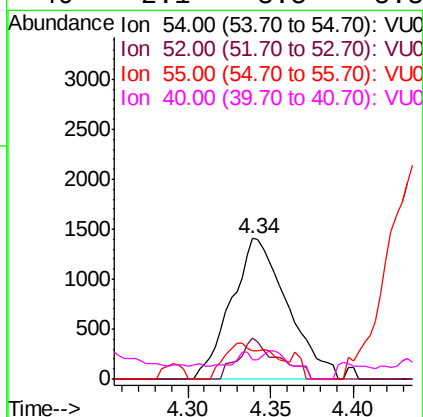
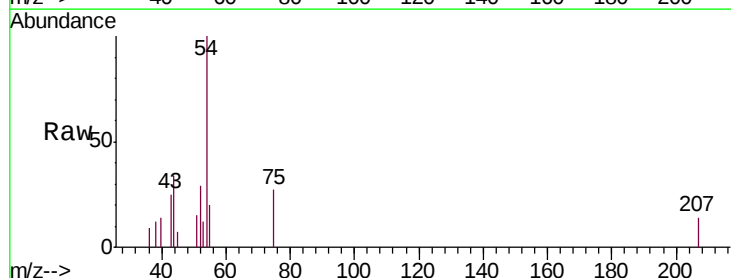
Instrument :  
 MSVOA\_U  
 ClientSampleId :

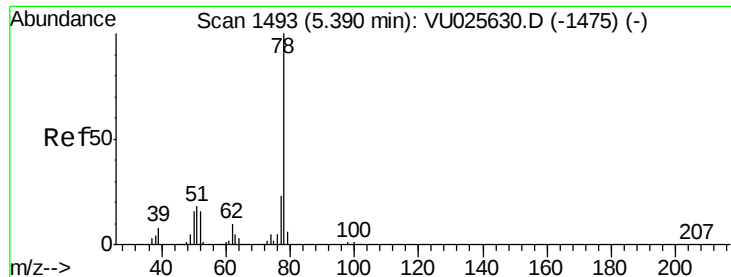
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 73      | 100   |       |       |
| 87      | 24.5  | 18.6  | 28.0  |
| 71      | 10.9  | 9.3   | 13.9  |



#34  
 Propionitrile  
 Concen: 4.775 ug/l  
 RT: 4.34 min Scan# 1166  
 Delta R.T. 0.00 min  
 Lab File: VU025627.D  
 Acq: 25 Jul 2018 10:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 54      | 100   |       |       |
| 52      | 20.5  | 13.7  | 20.5# |
| 55      | 22.2  | 10.2  | 15.2# |
| 40      | 2.1   | 3.5   | 5.3#  |





#35

Benzene

Concen: 0.953 ug/l

RT: 5.39 min Scan# 1493

Delta R.T. 0.00 min

Lab File: VU025627.D

Acq: 25 Jul 2018 10:13

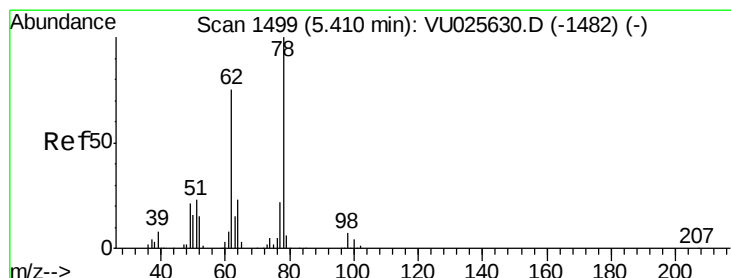
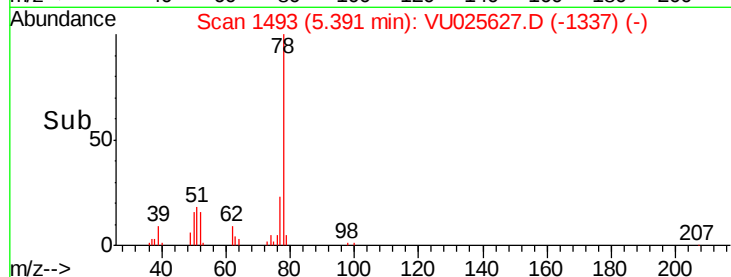
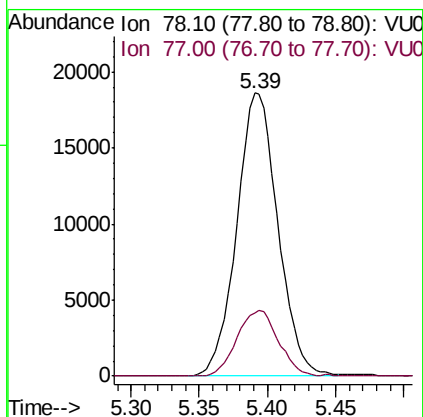
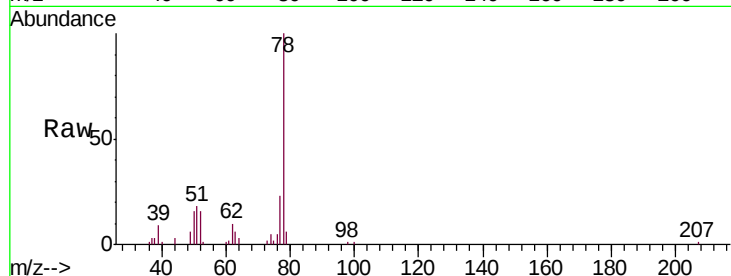
Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 78 Resp: 38931

Ion Ratio Lower Upper

78 100

77 22.6 19.1 28.7



#36

1,2-Dichloroethane

Concen: 1.021 ug/l

RT: 5.41 min Scan# 1500

Delta R.T. 0.00 min

Lab File: VU025627.D

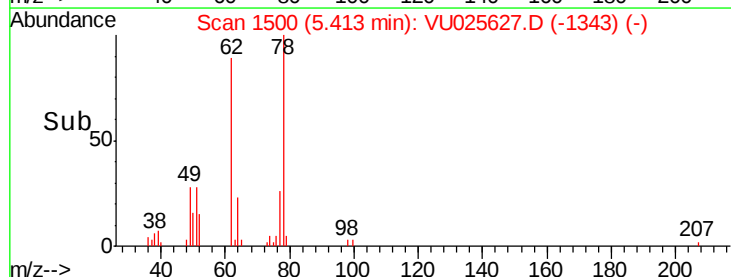
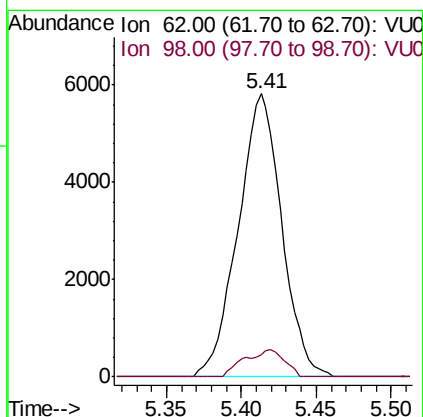
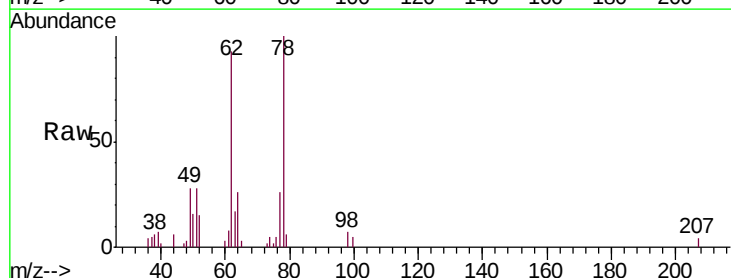
Acq: 25 Jul 2018 10:13

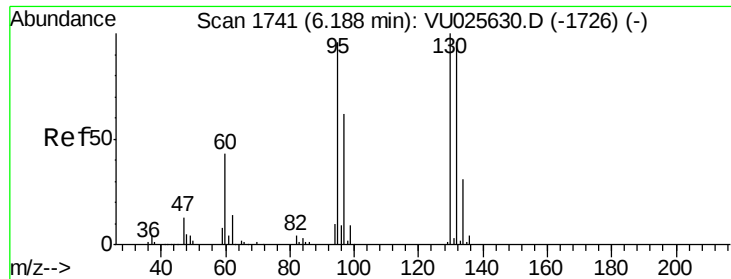
Tgt Ion: 62 Resp: 11789

Ion Ratio Lower Upper

62 100

98 8.9 7.2 10.8





#37

Trichloroethene

Concen: 1.082 ug/l

RT: 6.19 min Scan# 1741

Delta R.T. 0.00 min

Lab File: VU025627.D

Acq: 25 Jul 2018 10:13

Instrument :

MSVOA\_U

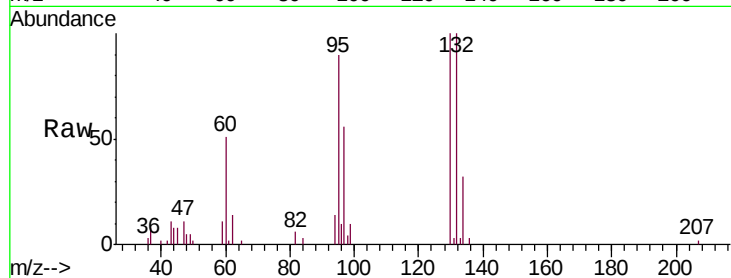
ClientSampleId :

Tot Ion:130 Resp: 11858

Ion Ratio Lower Upper

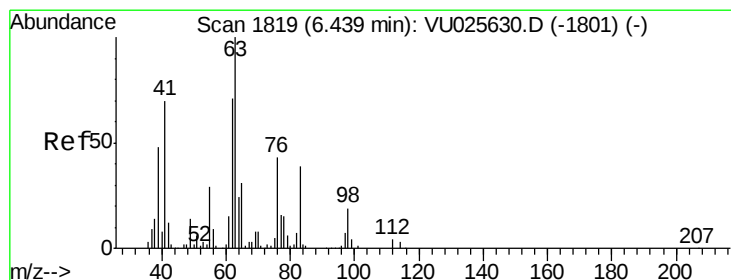
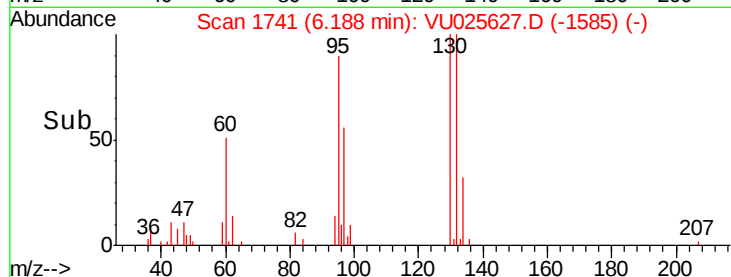
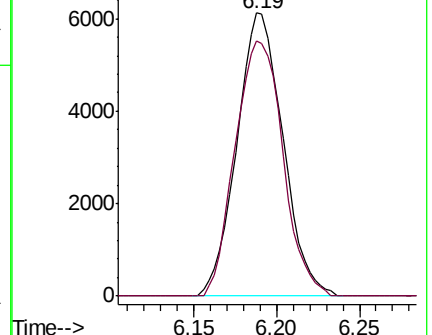
130 100

95 90.3 77.9 116.9



Abundance Ion 129.90 (129.60 to 130.60): VU025630.D (-1726) (-)

Ion 94.90 (94.60 to 95.60): VU025630.D (-1726) (-)



#38

1,2-Dichloropropane

Concen: 0.910 ug/l

RT: 6.44 min Scan# 1819

Delta R.T. 0.00 min

Lab File: VU025627.D

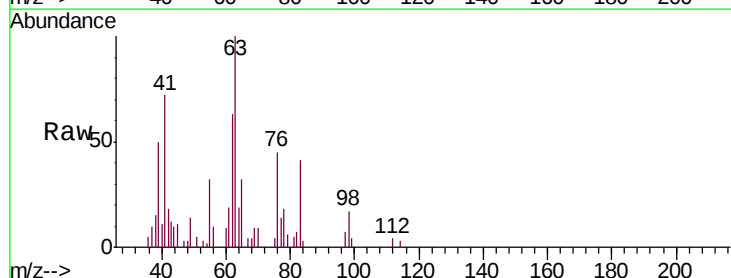
Acq: 25 Jul 2018 10:13

Tgt Ion: 63 Resp: 10188

Ion Ratio Lower Upper

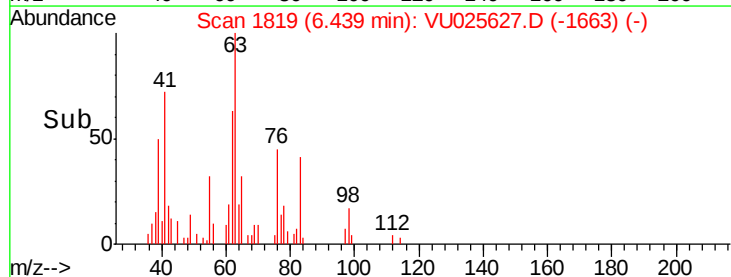
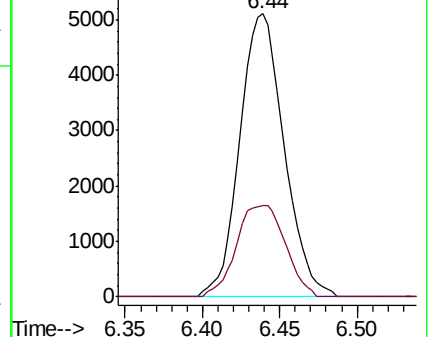
63 100

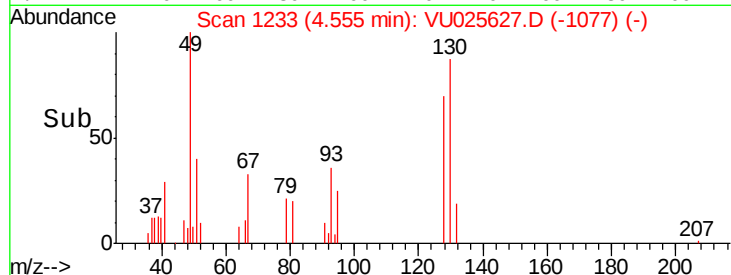
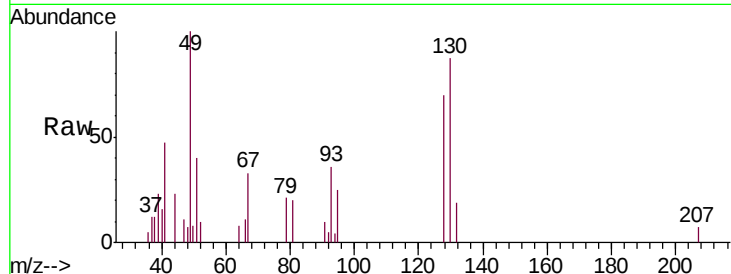
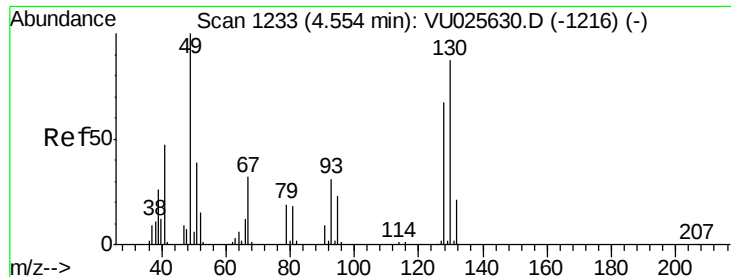
65 32.5 25.8 38.8



Abundance Ion 63.00 (62.70 to 63.70): VU025630.D (-1801) (-)

Ion 65.00 (64.70 to 65.70): VU025630.D (-1801) (-)

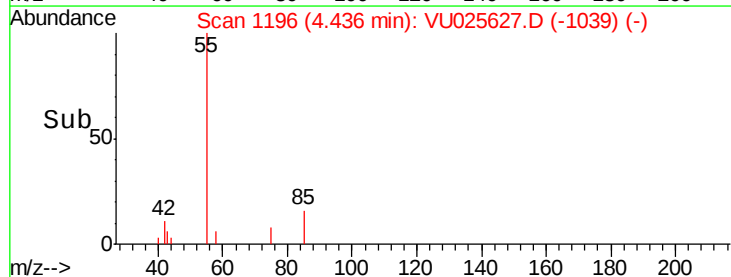
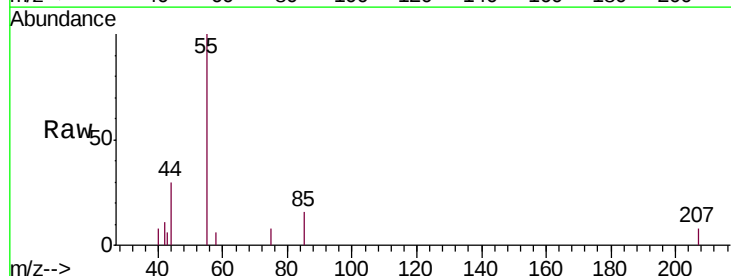
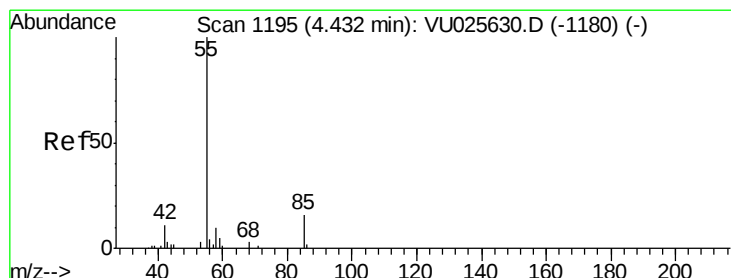
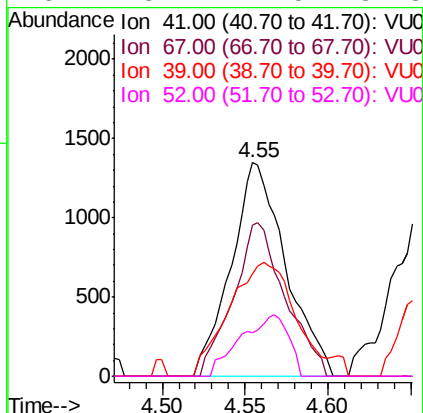




#39  
Methacrylonitrile  
Concen: 0.874 ug/l  
RT: 4.55 min Scan# 1233  
Delta R.T. 0.00 min  
Lab File: VU025627.D  
Acq: 25 Jul 2018 10:13

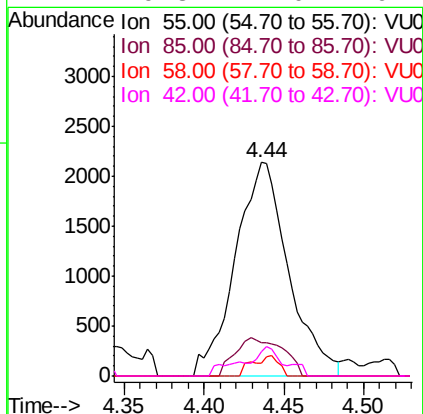
Instrument :  
MSVOA\_U  
ClientSampleId :

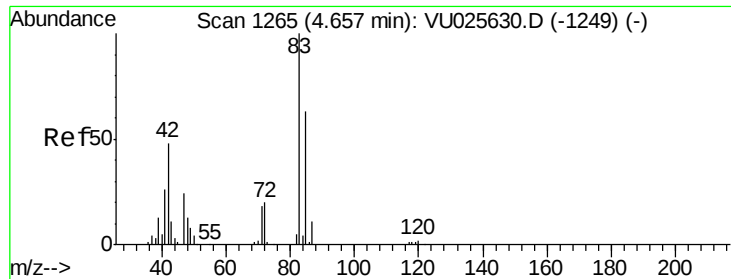
Tot Ion: 41 Resp: 3093  
Ion Ratio Lower Upper  
41 100  
67 68.1 51.3 76.9  
39 64.2 40.6 60.8#  
52 25.1 21.5 32.3



#40  
Methyl acrylate  
Concen: 0.993 ug/l  
RT: 4.44 min Scan# 1196  
Delta R.T. 0.00 min  
Lab File: VU025627.D  
Acq: 25 Jul 2018 10:13

Tgt Ion: 55 Resp: 4877  
Ion Ratio Lower Upper  
55 100  
85 15.9 12.3 18.5  
58 4.6 7.0 10.6#  
42 9.3 7.0 10.4

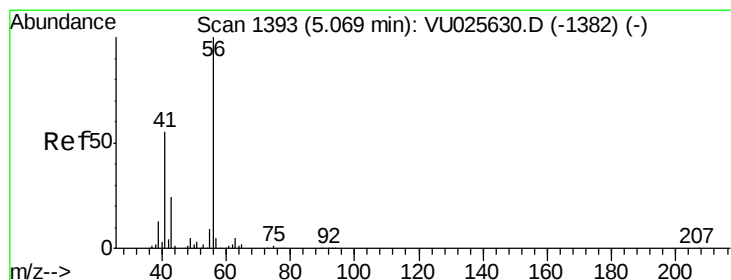
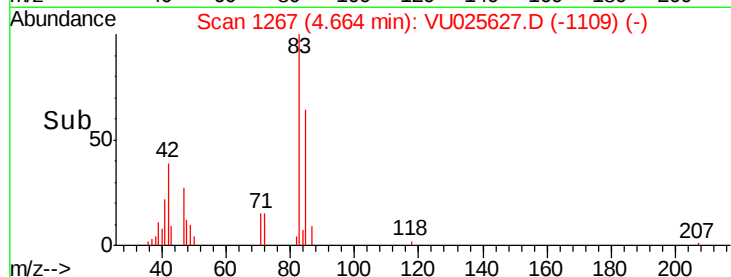
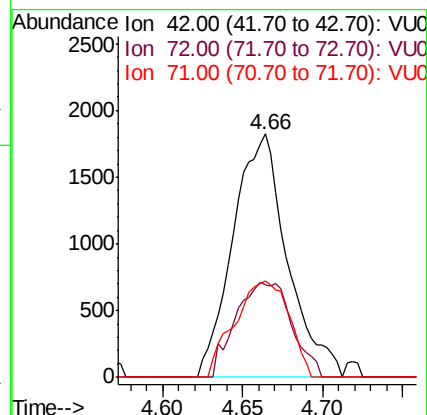
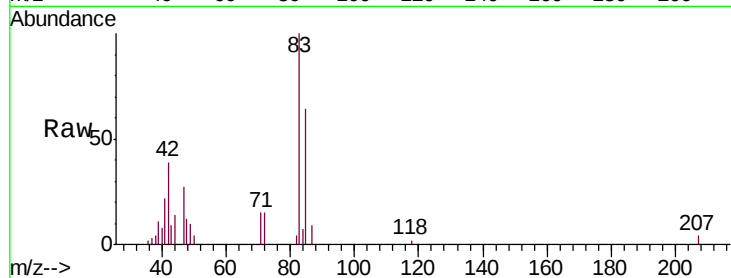




#41  
Tetrahydrofuran  
Concen: 2.334 ug/l  
RT: 4.66 min Scan# 1267  
Delta R.T. 0.01 min  
Lab File: VU025627.D  
Acq: 25 Jul 2018 10:13

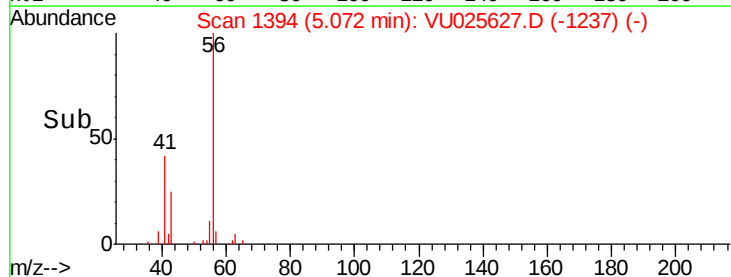
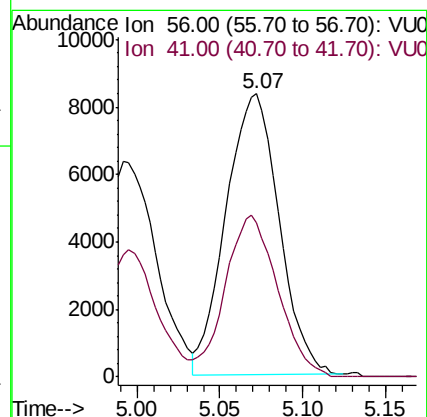
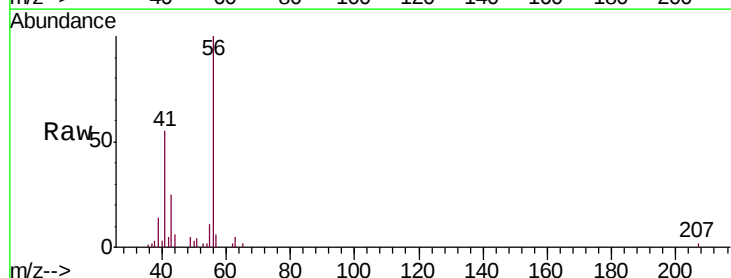
Instrument :  
MSVOA\_U  
ClientSampled :

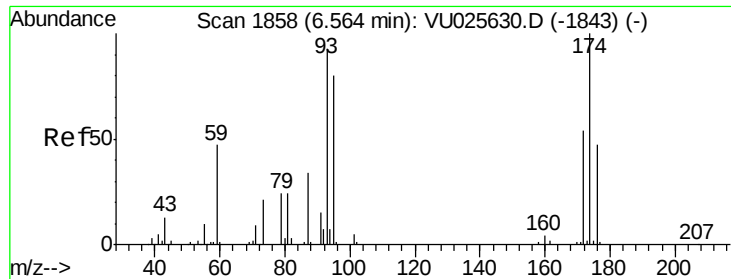
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 40.2  | 33.2  | 49.8  |
| 71      | 39.4  | 29.8  | 44.8  |



#42  
1-Chlorobutane  
Concen: 0.930 ug/l  
RT: 5.07 min Scan# 1394  
Delta R.T. 0.00 min  
Lab File: VU025627.D  
Acq: 25 Jul 2018 10:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 56      | 100   |       |       |
| 41      | 56.7  | 27.5  | 82.5  |

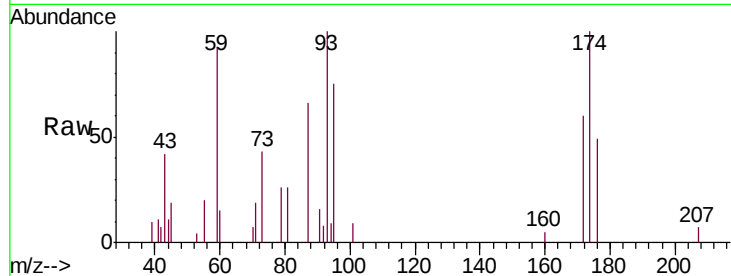




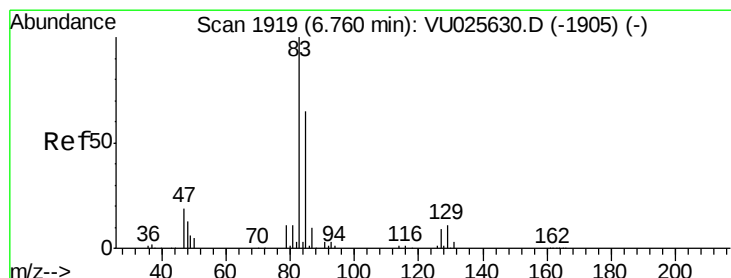
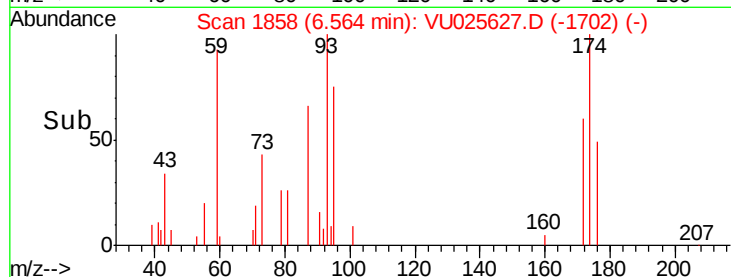
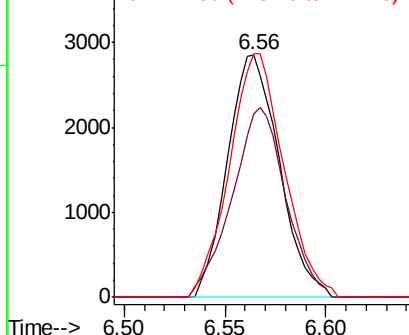
#43  
Dibromomethane  
Concen: 1.062 ug/l  
RT: 6.56 min Scan# 1858  
Delta R.T. 0.00 min  
Lab File: VU025627.D  
Acq: 25 Jul 2018 10:13

Instrument :  
MSVOA\_U  
ClientSampled :

Tot Ion: 93 Resp: 5117  
Ion Ratio Lower Upper  
93 100  
95 81.0 67.2 100.8  
174 105.7 82.8 124.2

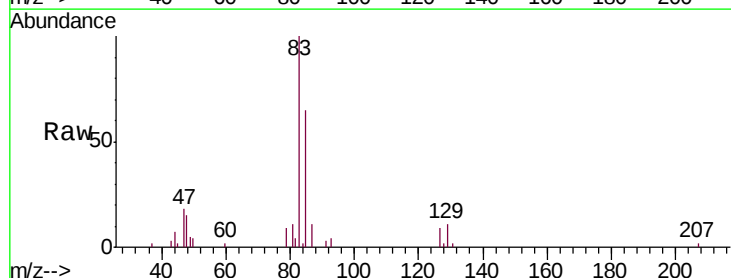


Abundance Ion 93.00 (92.70 to 93.70): VU0  
Ion 95.00 (94.70 to 95.70): VU0  
Ion 174.00 (173.70 to 174.70): V

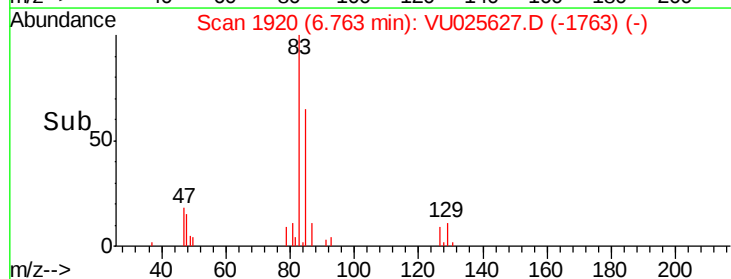
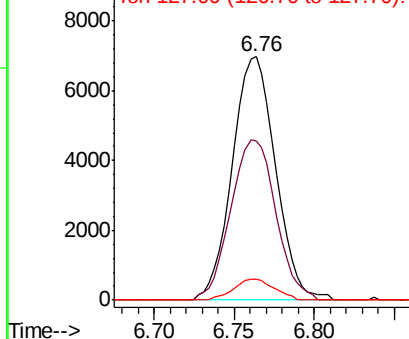


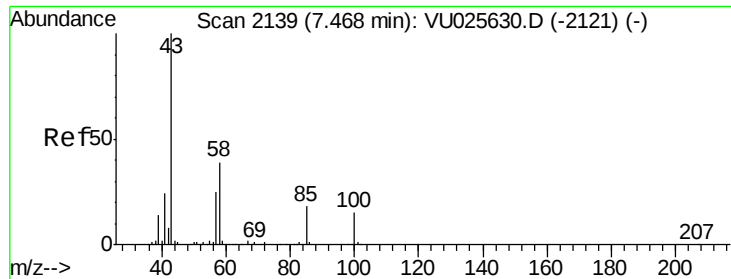
#44  
Bromodichloromethane  
Concen: 1.064 ug/l  
RT: 6.76 min Scan# 1920  
Delta R.T. 0.00 min  
Lab File: VU025627.D  
Acq: 25 Jul 2018 10:13

Tgt Ion: 83 Resp: 12883  
Ion Ratio Lower Upper  
83 100  
85 65.5 52.2 78.4  
127 8.8 7.0 10.4



Abundance Ion 83.00 (82.70 to 83.70): VU0  
Ion 85.00 (84.70 to 85.70): VU0  
Ion 127.00 (126.70 to 127.70): V

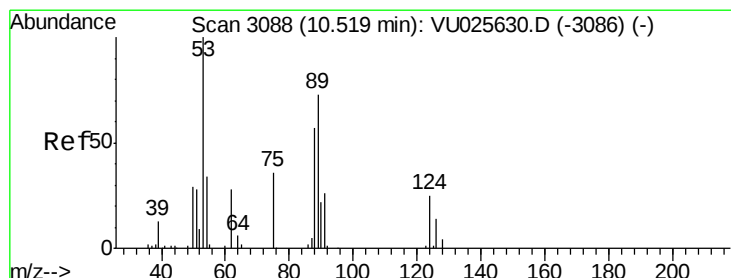
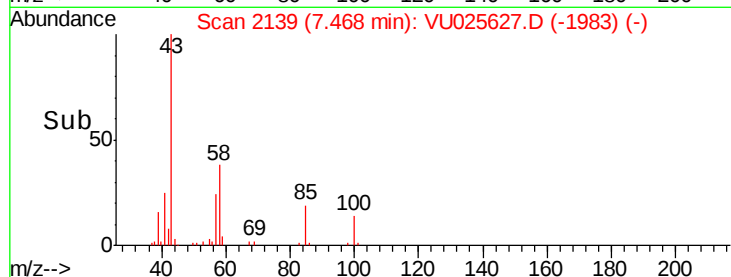
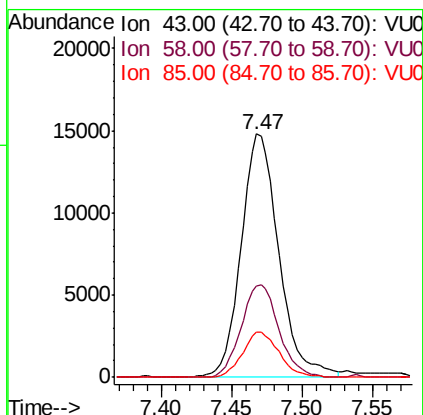
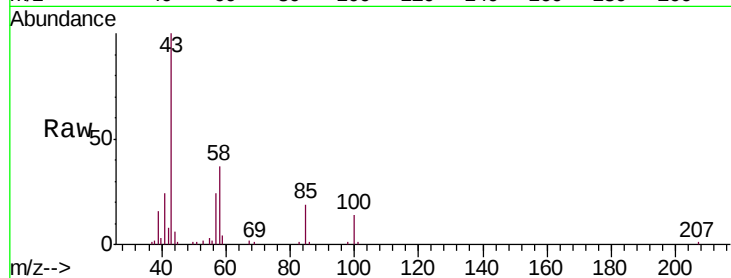




#45  
4-Methyl-2-Pentanone  
Concen: 4.877 ug/l  
RT: 7.47 min Scan# 2139  
Delta R.T. 0.00 min  
Lab File: VU025627.D  
Acq: 25 Jul 2018 10:13

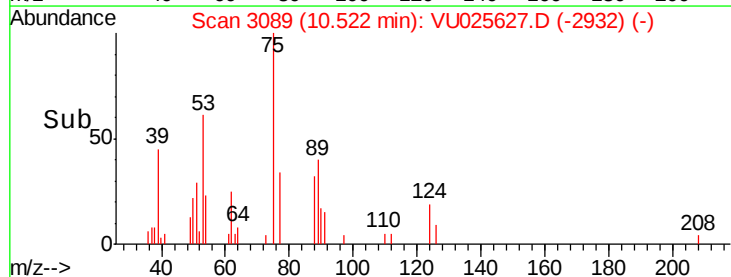
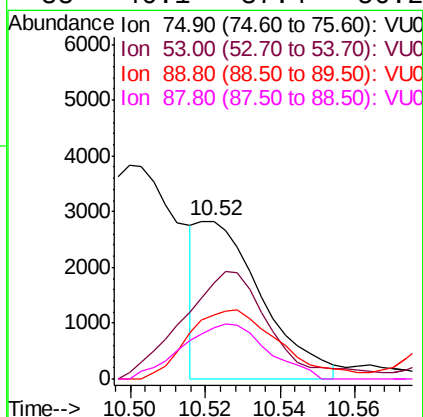
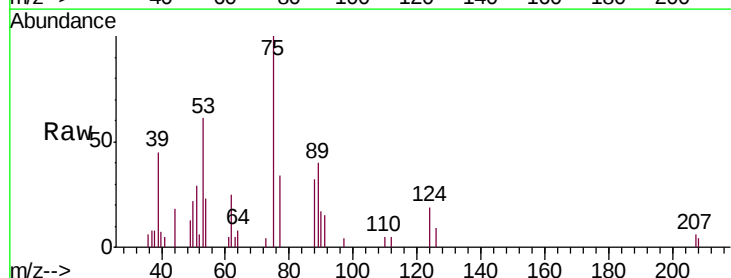
Instrument :  
MSVOA\_U  
ClientSampleId :

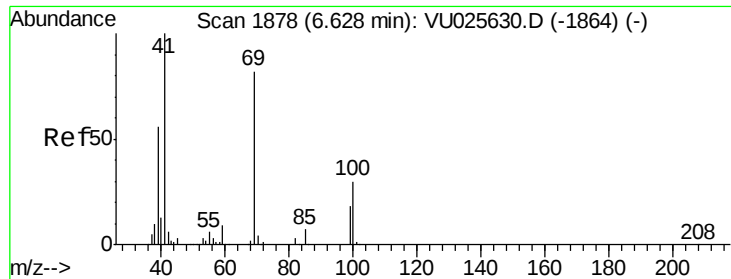
Tot Ion: 43 Resp: 27767  
Ion Ratio Lower Upper  
43 100  
58 37.7 18.8 56.4  
85 18.1 12.6 19.0



#46  
t-1,4-Dichloro-2-butene  
Concen: 2.014 ug/l m  
RT: 10.52 min Scan# 3089  
Delta R.T. 0.00 min  
Lab File: VU025627.D  
Acq: 25 Jul 2018 10:13

Tgt Ion: 75 Resp: 3391  
Ion Ratio Lower Upper  
75 100  
53 94.2 82.2 123.4  
89 63.0 51.3 76.9  
88 46.1 37.4 56.2

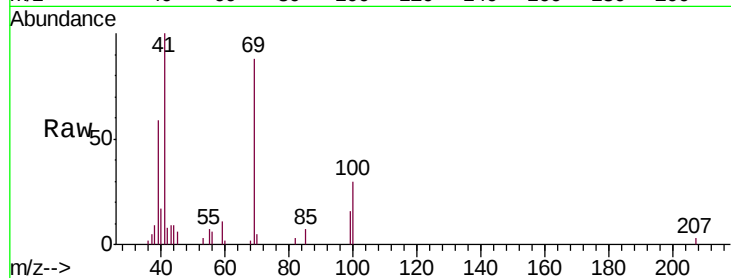




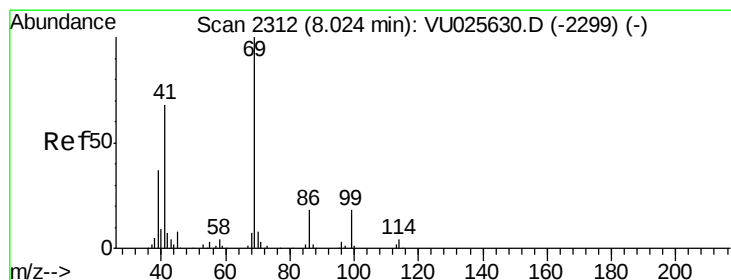
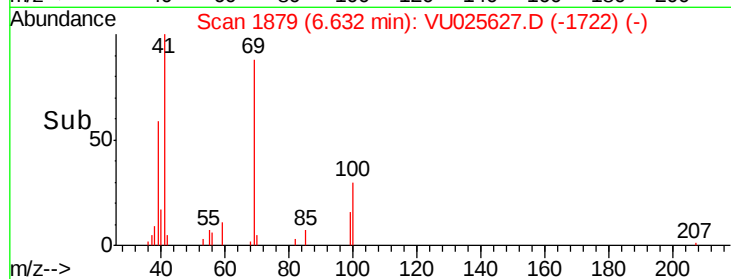
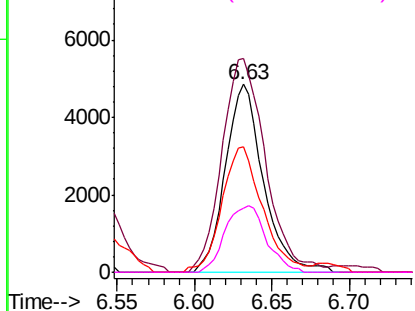
#47  
Methyl methacrylate  
Concen: 1.898 ug/l  
RT: 6.63 min Scan# 1879  
Delta R.T. 0.00 min  
Lab File: VU025627.D  
Acq: 25 Jul 2018 10:13

Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 69 Resp: 8286  
Ion Ratio Lower Upper  
69 100  
41 130.1 0.0 245.4  
39 71.3 49.0 73.4  
100 38.1 27.8 41.8

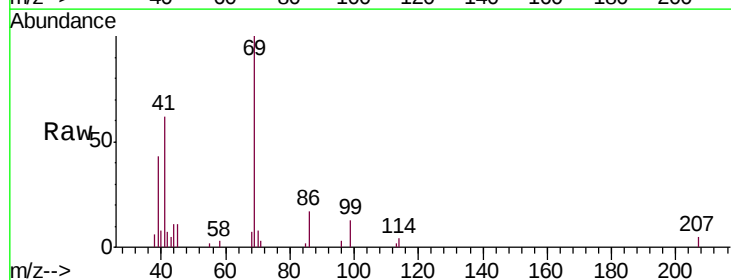


Abundance Ion 69.00 (68.70 to 69.70): VU0  
Ion 41.00 (40.70 to 41.70): VU0  
Ion 39.00 (38.70 to 39.70): VU0  
Ion 100.00 (99.70 to 100.70): VU0

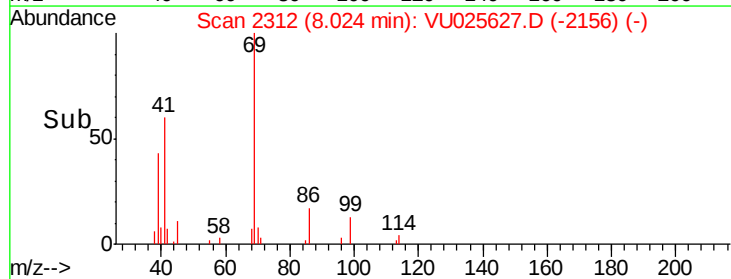
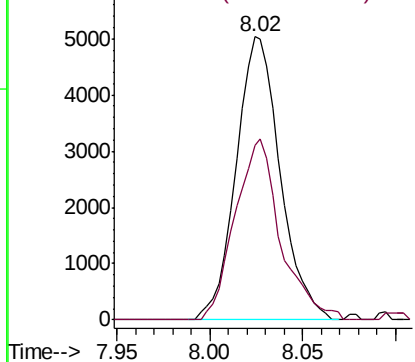


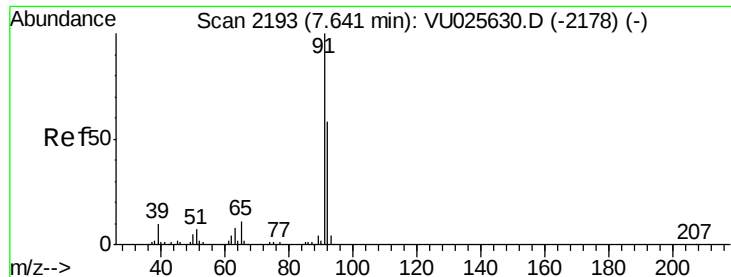
#48  
Ethyl methacrylate  
Concen: 1.088 ug/l  
RT: 8.02 min Scan# 2312  
Delta R.T. 0.00 min  
Lab File: VU025627.D  
Acq: 25 Jul 2018 10:13

Tgt Ion: 69 Resp: 8302  
Ion Ratio Lower Upper  
69 100  
41 65.9 34.2 102.5



Abundance Ion 69.00 (68.70 to 69.70): VU0  
Ion 41.00 (40.70 to 41.70): VU0





#49

Toluene

Concen: 0.960 ug/l

RT: 7.64 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VU025627.D

Acq: 25 Jul 2018 10:13

Instrument :

MSVOA\_U

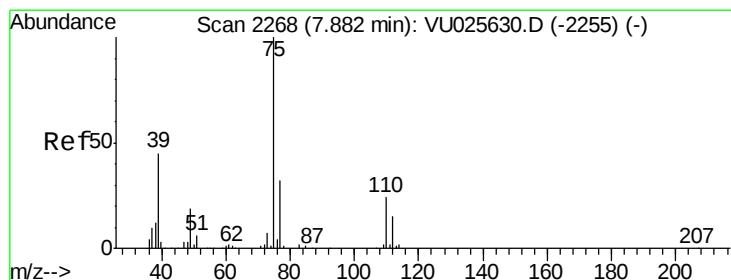
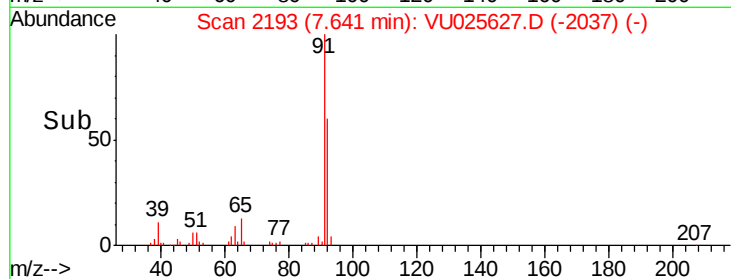
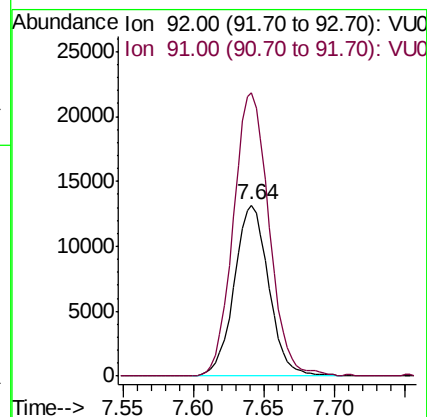
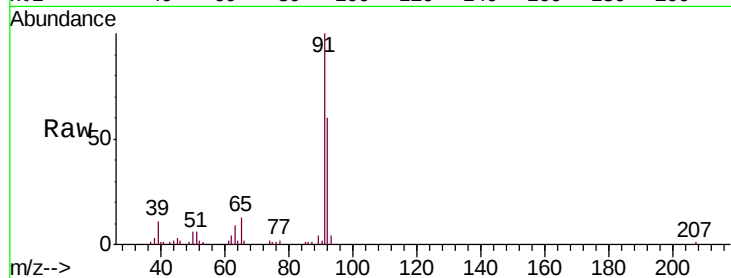
ClientSampleId :

Tot Ion: 92 Resp: 22638

Ion Ratio Lower Upper

92 100

91 170.8 137.1 205.7



#50

t-1,3-Dichloropropene

Concen: 1.095 ug/l

RT: 7.89 min Scan# 2270

Delta R.T. 0.01 min

Lab File: VU025627.D

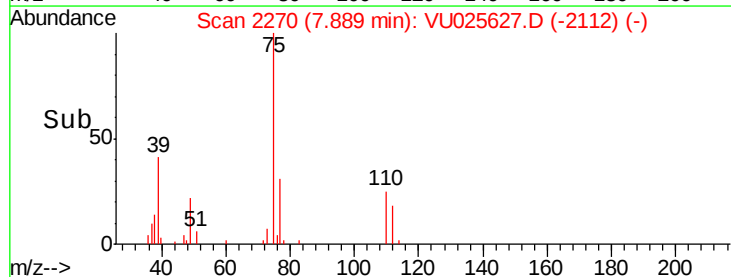
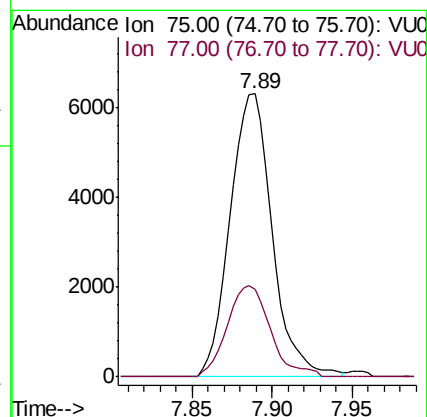
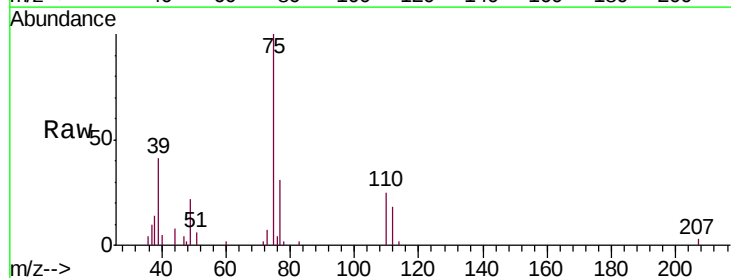
Acq: 25 Jul 2018 10:13

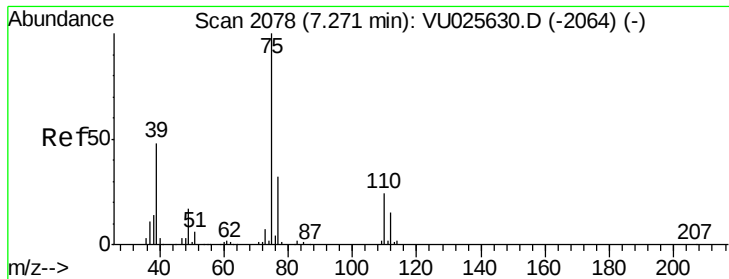
Tgt Ion: 75 Resp: 11309

Ion Ratio Lower Upper

75 100

77 30.9 25.2 37.8



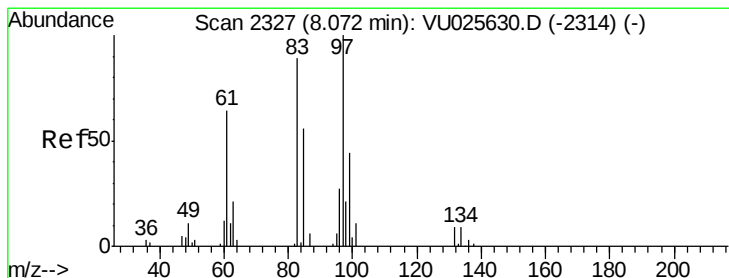
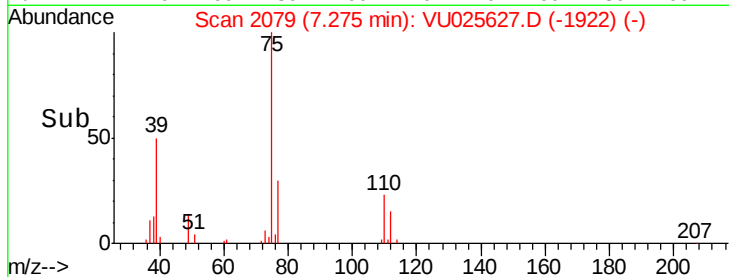
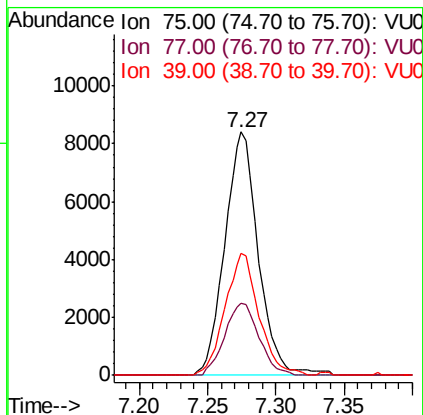
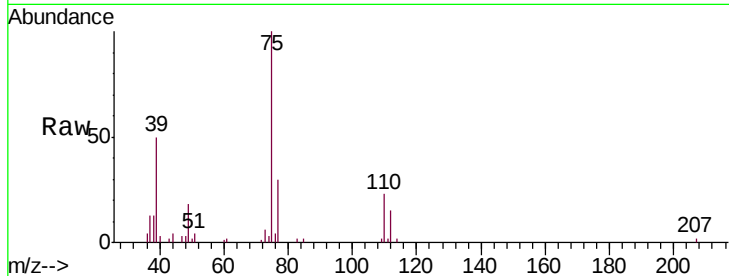


#51

cis-1,3-Dichloropropene  
 Concen: 1.068 ug/l  
 RT: 7.27 min Scan# 2079  
 Delta R.T. 0.00 min  
 Lab File: VU025627.D  
 Acq: 25 Jul 2018 10:13

Instrument :  
 MSVOA\_U  
 ClientSampled :

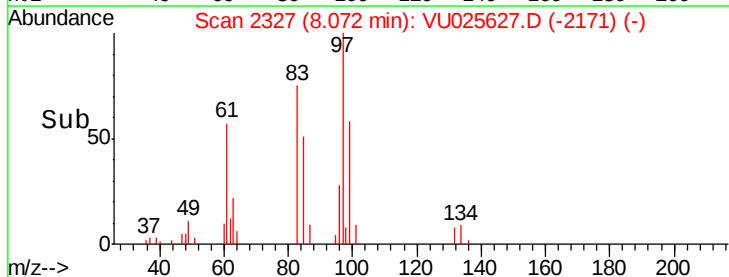
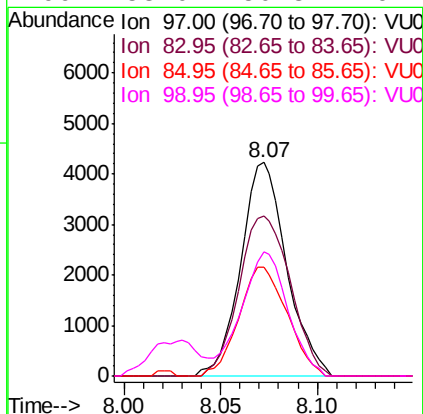
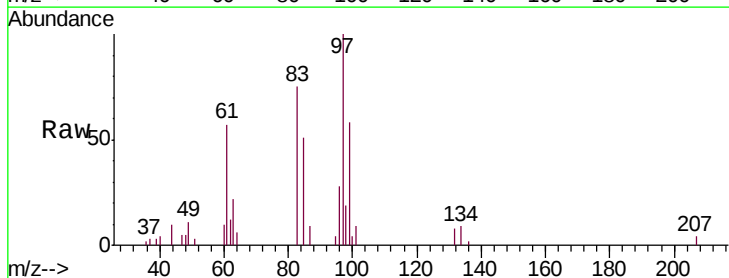
| Tot Ion | 75    | Resp  | 14360 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 75      | 100   |       |       |
| 77      | 29.8  | 25.2  | 37.8  |
| 39      | 50.2  | 36.4  | 54.6  |

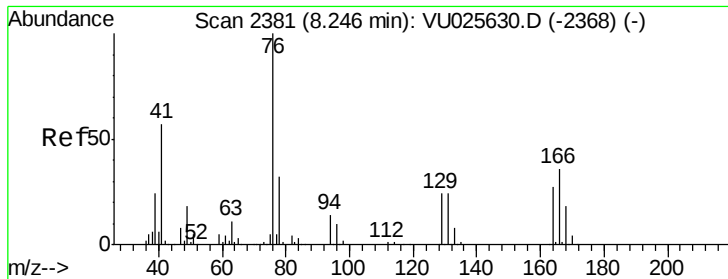


#52

1,1,2-Trichloroethane  
 Concen: 1.017 ug/l  
 RT: 8.07 min Scan# 2327  
 Delta R.T. 0.00 min  
 Lab File: VU025627.D  
 Acq: 25 Jul 2018 10:13

| Tgt Ion | 97    | Resp  | 6974  |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 97      | 100   |       |       |
| 83      | 74.7  | 72.6  | 109.0 |
| 85      | 51.1  | 47.2  | 70.8  |
| 99      | 58.0  | 50.8  | 76.2  |





#53

1,3-Dichloropropane

Concen: 0.938 ug/l

RT: 8.25 min Scan# 2381

Delta R.T. 0.00 min

Lab File: VU025627.D

Acq: 25 Jul 2018 10:13

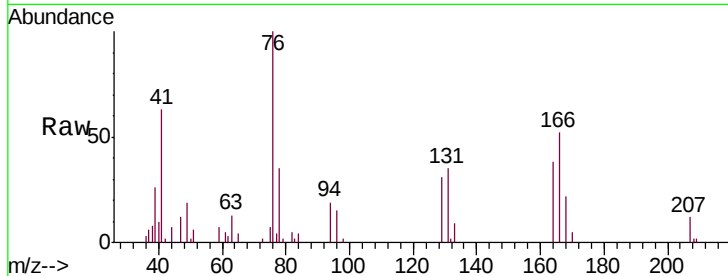
Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 76 Resp: 11429

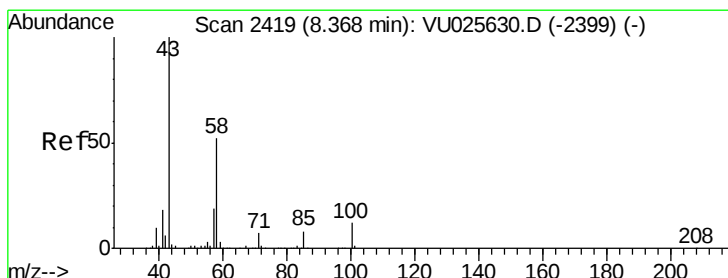
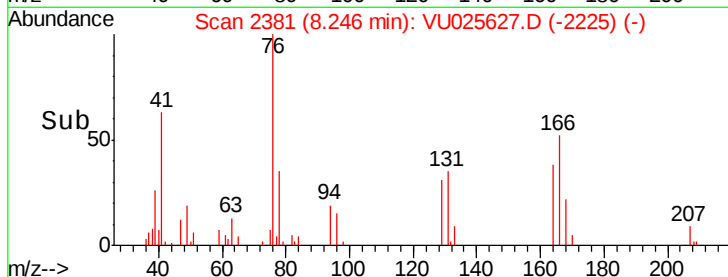
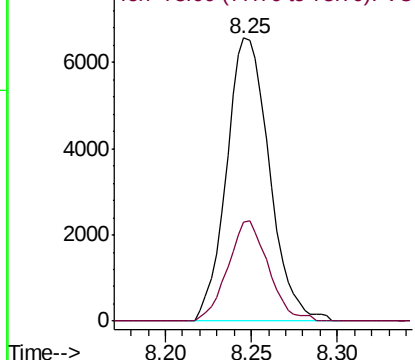
Ion Ratio Lower Upper

76 100

78 33.5 25.7 38.5



Abundance Ion 76.00 (75.70 to 76.70): VU0  
Ion 78.00 (77.70 to 78.70): VU0



#54

2-Hexanone

Concen: 4.939 ug/l

RT: 8.37 min Scan# 2420

Delta R.T. 0.00 min

Lab File: VU025627.D

Acq: 25 Jul 2018 10:13

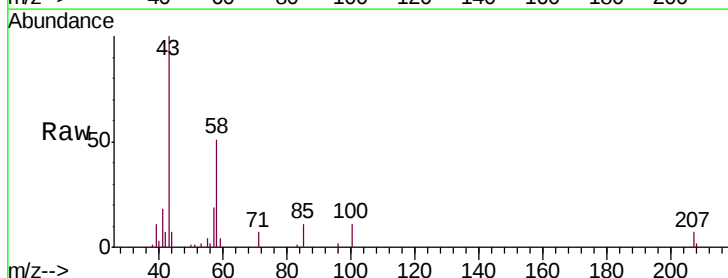
Tgt Ion: 43 Resp: 19156

Ion Ratio Lower Upper

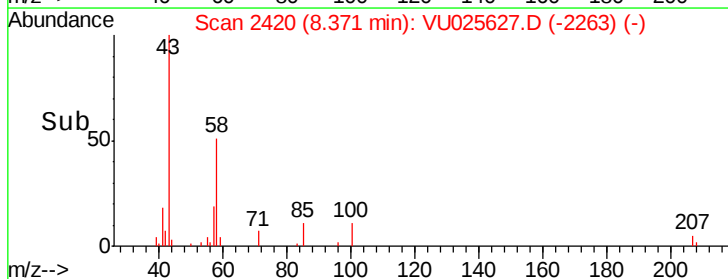
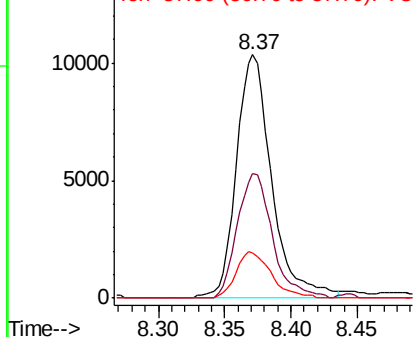
43 100

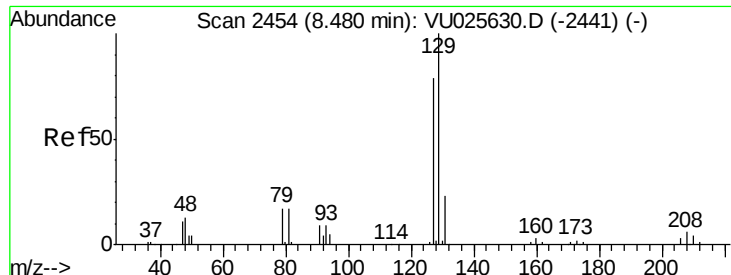
58 50.6 32.5 72.5

57 19.1 0.0 37.9



Abundance Ion 43.00 (42.70 to 43.70): VU0  
Ion 58.00 (57.70 to 58.70): VU0  
Ion 57.00 (56.70 to 57.70): VU0

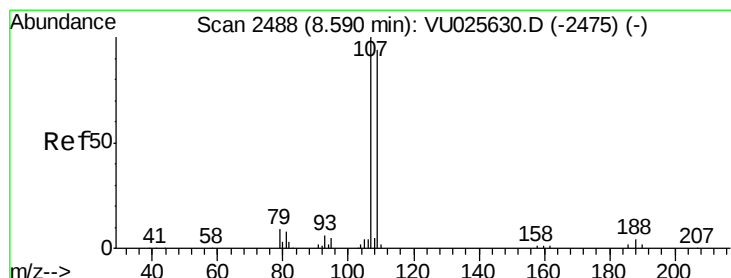
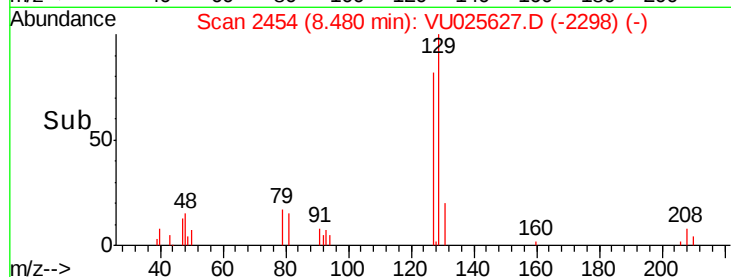
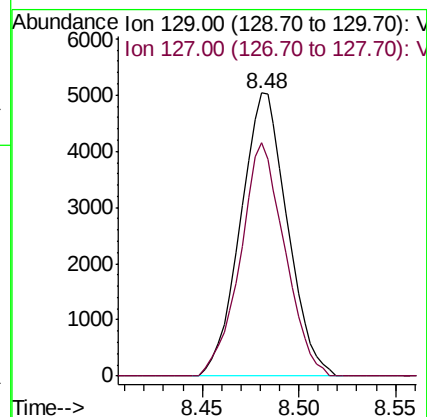
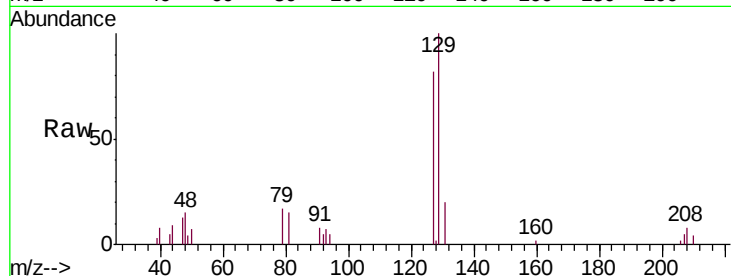




#55  
 Dibromochloromethane  
 Concen: 1.132 ug/l  
 RT: 8.48 min Scan# 2454  
 Delta R.T. 0.00 min  
 Lab File: VU025627.D  
 Acq: 25 Jul 2018 10:13

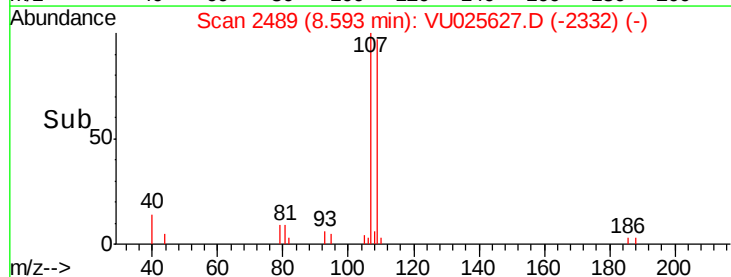
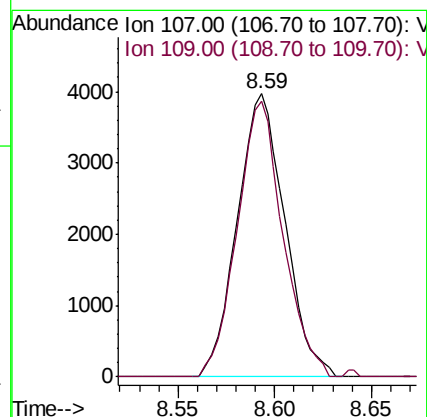
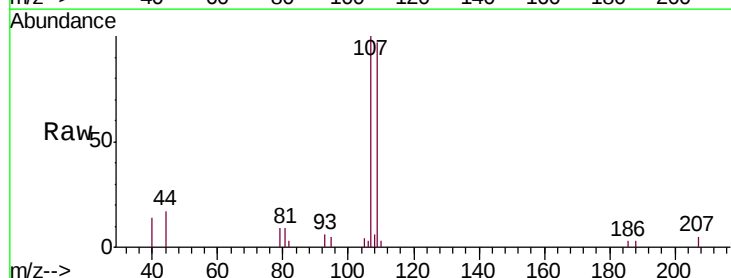
Instrument :  
 MSVOA\_U  
 ClientSampleId :

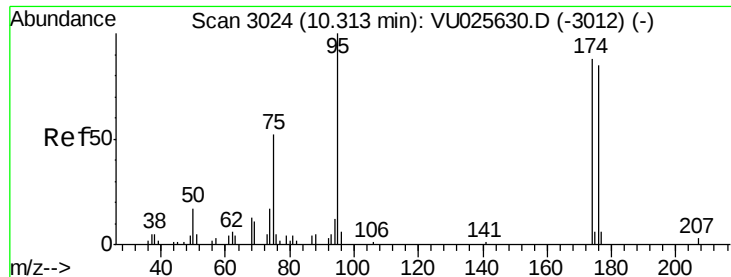
Tot Ion:129 Resp: 8501  
 Ion Ratio Lower Upper  
 129 100  
 127 78.0 61.1 91.7



#56  
 1,2-Dibromoethane  
 Concen: 1.149 ug/l  
 RT: 8.59 min Scan# 2489  
 Delta R.T. 0.00 min  
 Lab File: VU025627.D  
 Acq: 25 Jul 2018 10:13

Tgt Ion:107 Resp: 6787  
 Ion Ratio Lower Upper  
 107 100  
 109 93.7 0.0 189.0

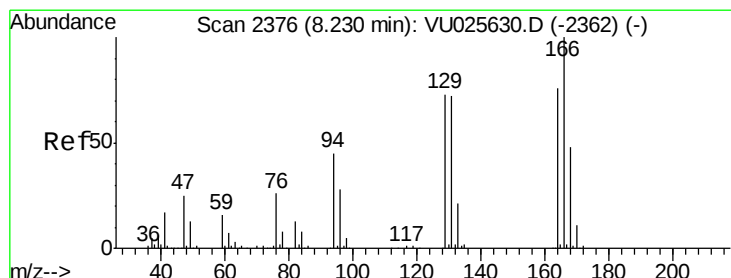
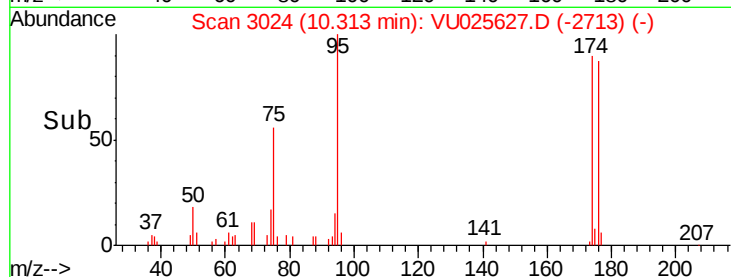
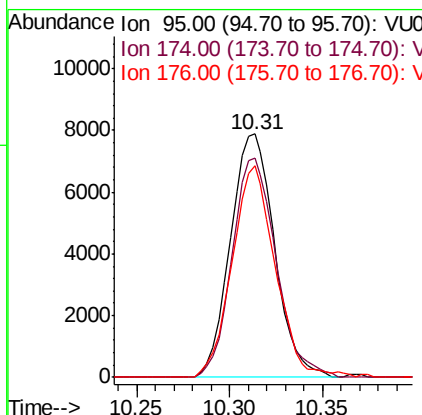
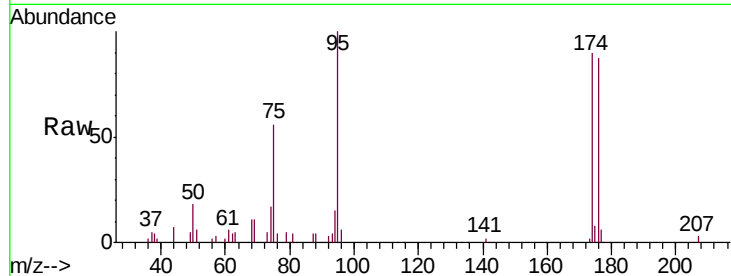




#57  
4-Bromofluorobenzene  
Concen: 1.149 ug/l  
RT: 10.31 min Scan# 3024  
Delta R.T. 0.00 min  
Lab File: VU025627.D  
Acq: 25 Jul 2018 10:13

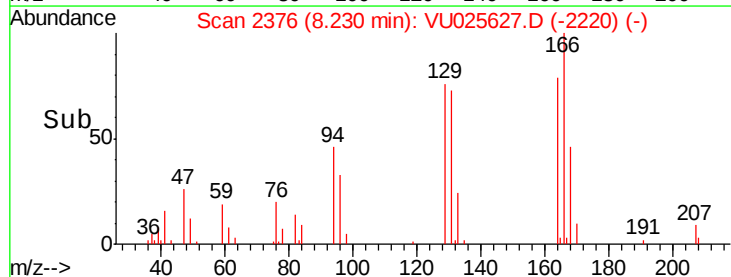
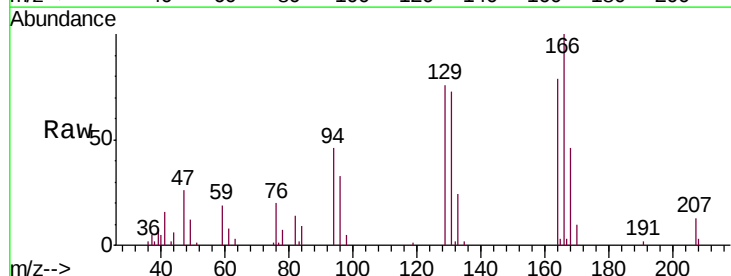
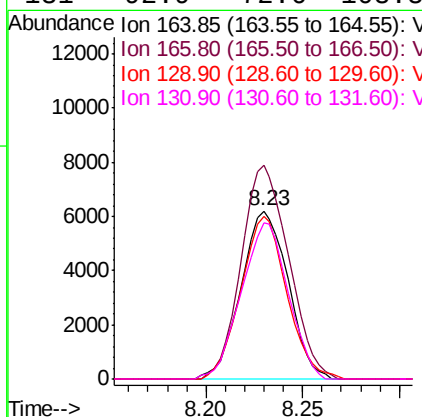
Instrument :  
MSVOA\_U  
ClientSampleId :

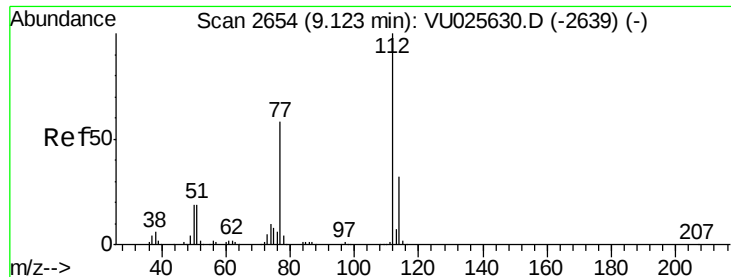
Tot Ion: 95 Resp: 13015  
Ion Ratio Lower Upper  
95 100  
174 90.0 65.6 98.4  
176 85.3 62.0 93.0



#58  
Tetrachloroethene  
Concen: 1.049 ug/l  
RT: 8.23 min Scan# 2376  
Delta R.T. 0.00 min  
Lab File: VU025627.D  
Acq: 25 Jul 2018 10:13

Tgt Ion: 164 Resp: 10490  
Ion Ratio Lower Upper  
164 100  
166 127.2 104.1 156.1  
129 96.7 76.8 115.2  
131 92.9 72.6 108.8

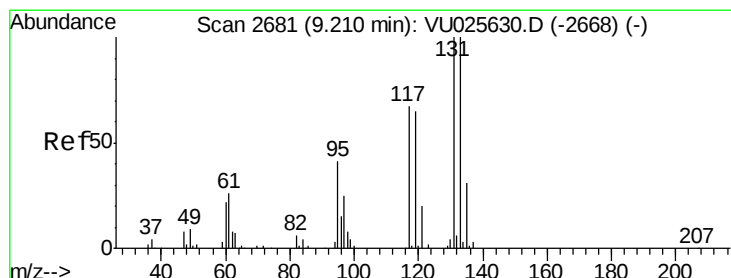
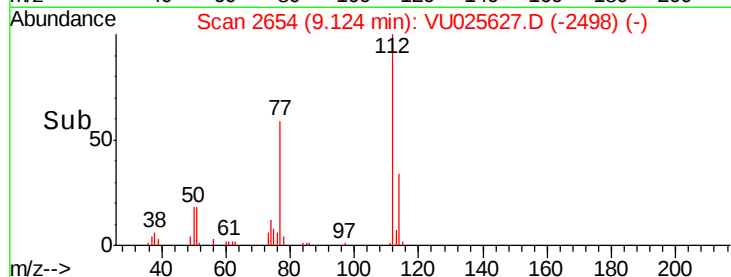
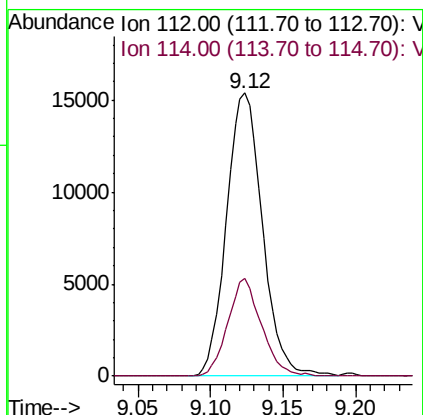
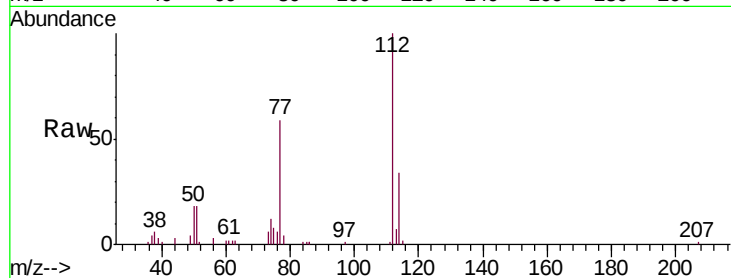




#59  
Chlorobenzene  
Concen: 1.049 ug/l  
RT: 9.12 min Scan# 2654  
Delta R.T. 0.00 min  
Lab File: VU025627.D  
Acq: 25 Jul 2018 10:13

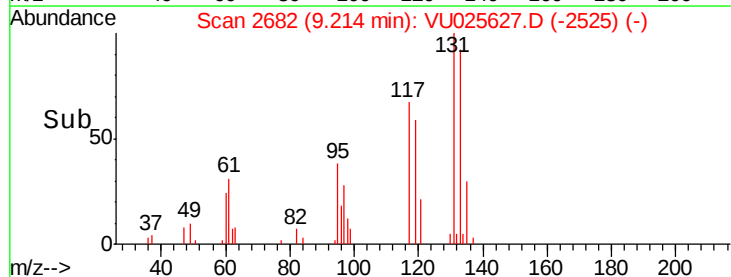
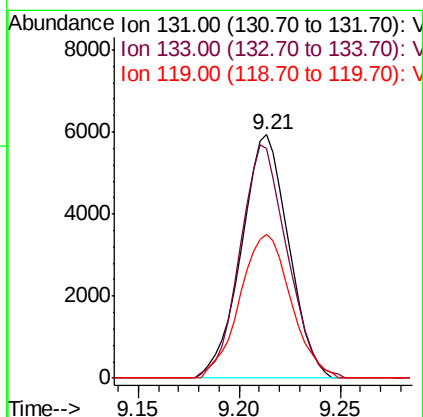
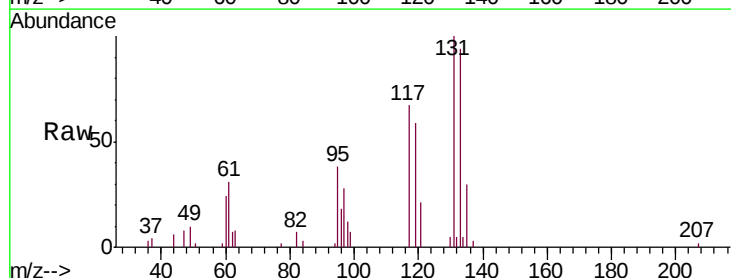
Instrument :  
MSVOA\_U  
ClientSampleId :

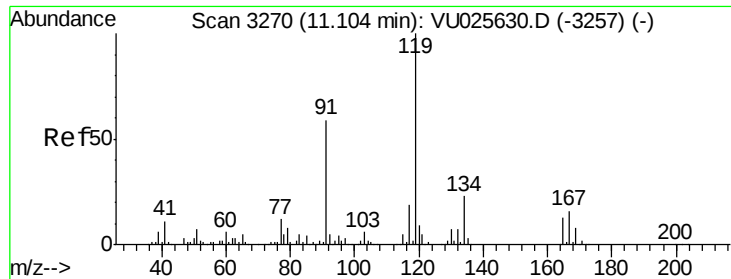
Tot Ion:112 Resp: 26491  
Ion Ratio Lower Upper  
112 100  
114 34.4 25.4 38.2



#60  
1,1,1,2-Tetrachloroethane  
Concen: 1.133 ug/l  
RT: 9.21 min Scan# 2682  
Delta R.T. 0.00 min  
Lab File: VU025627.D  
Acq: 25 Jul 2018 10:13

Tgt Ion:131 Resp: 9720  
Ion Ratio Lower Upper  
131 100  
133 95.8 75.8 113.8  
119 64.0 53.0 79.6

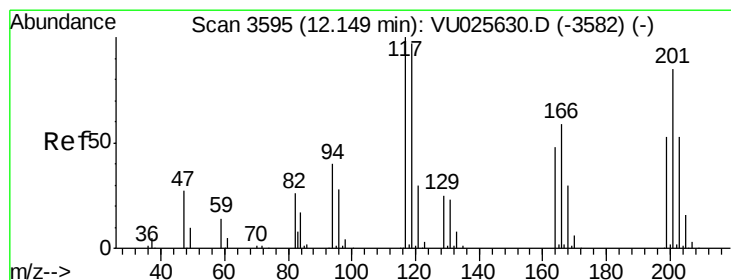
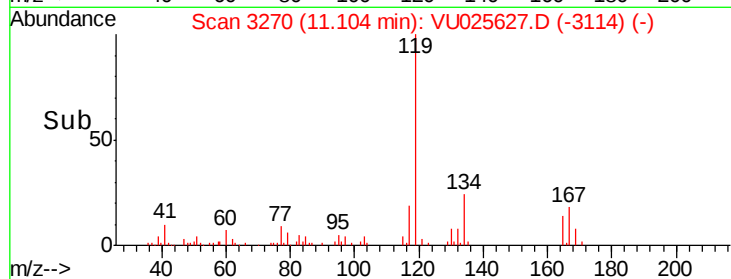
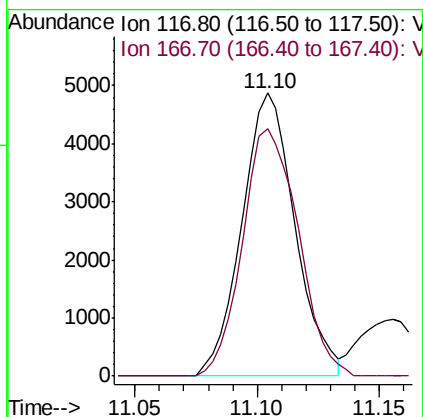
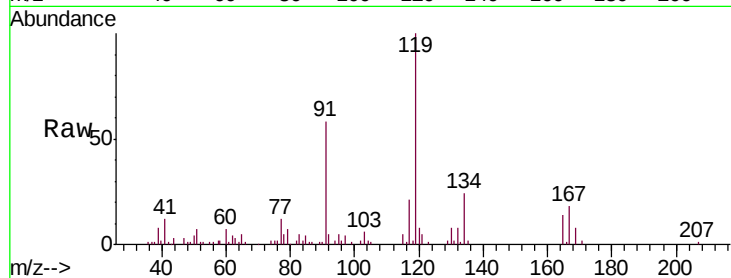




#61  
 Pentachloroethane  
 Concen: 1.209 ug/l  
 RT: 11.10 min Scan# 3270  
 Delta R.T. 0.00 min  
 Lab File: VU025627.D  
 Acq: 25 Jul 2018 10:13

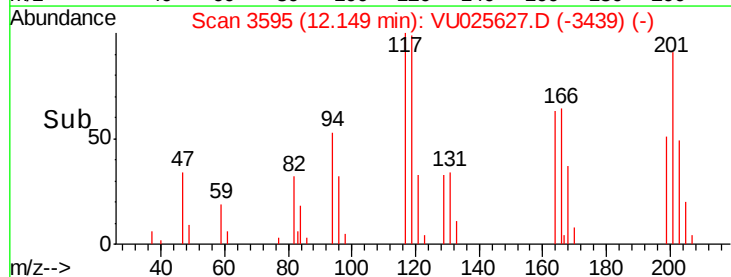
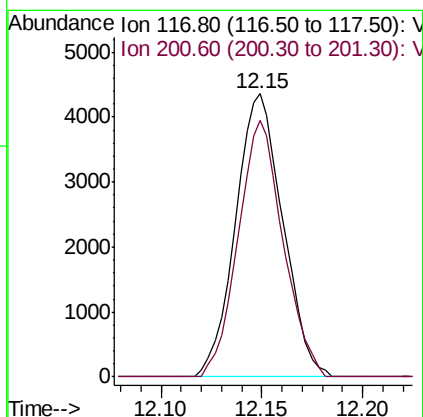
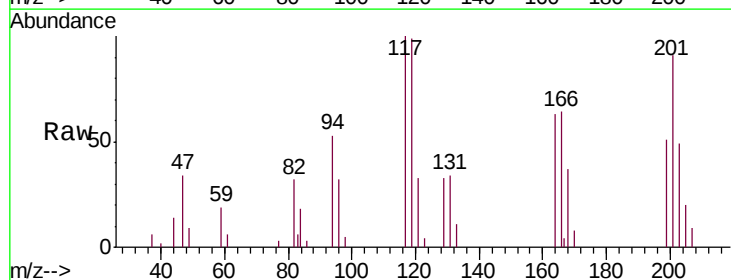
Instrument :  
 MSVOA\_U  
 ClientSampleId :

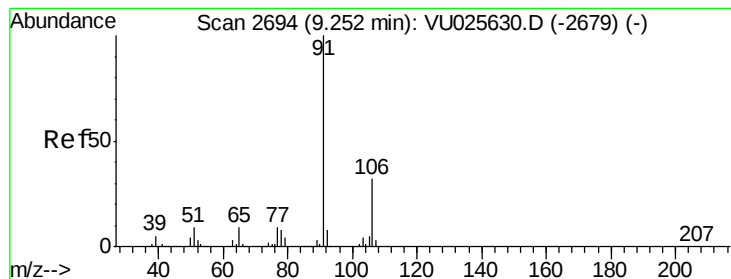
Tot Ion:117 Resp: 7362  
 Ion Ratio Lower Upper  
 117 100  
 167 91.8 69.2 103.8



#62  
 Hexachloroethane  
 Concen: 1.224 ug/l  
 RT: 12.15 min Scan# 3595  
 Delta R.T. 0.00 min  
 Lab File: VU025627.D  
 Acq: 25 Jul 2018 10:13

Tgt Ion:117 Resp: 7149  
 Ion Ratio Lower Upper  
 117 100  
 201 86.1 68.7 103.1





#63

Ethyl Benzene

Concen: 1.031 ug/l

RT: 9.25 min Scan# 2694

Delta R.T. 0.00 min

Lab File: VU025627.D

Acq: 25 Jul 2018 10:13

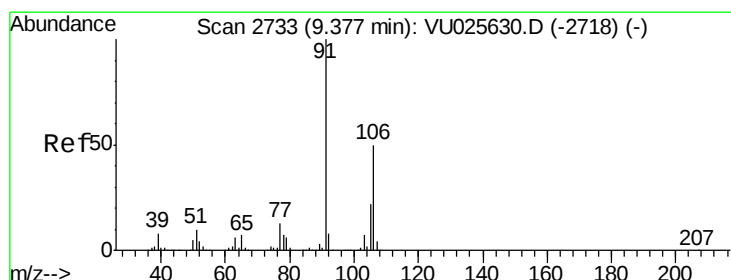
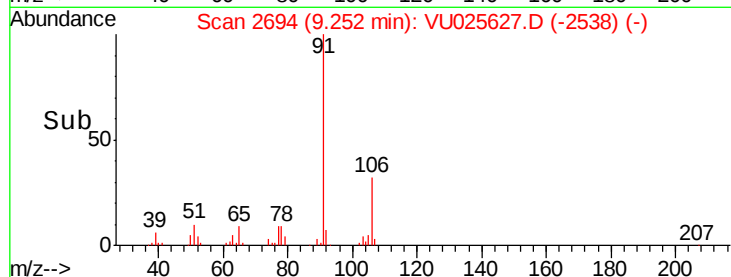
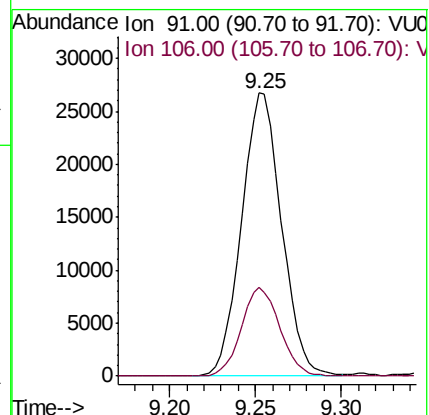
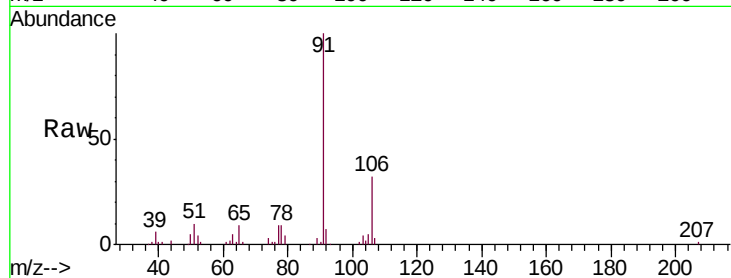
Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 91 Resp: 43257

Ion Ratio Lower Upper

91 100

106 31.5 24.7 37.1



#64

m/p-Xylenes

Concen: 2.056 ug/l

RT: 9.38 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VU025627.D

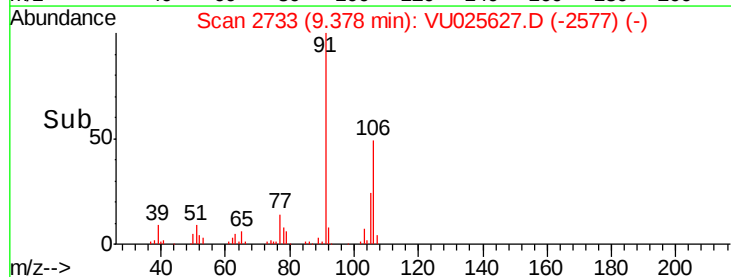
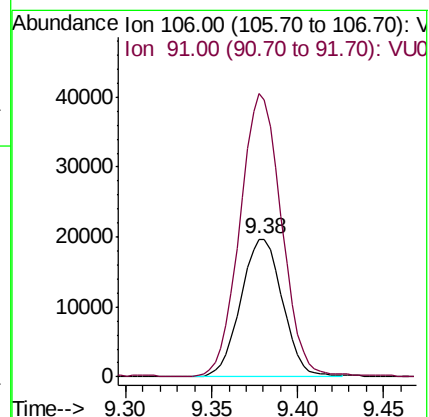
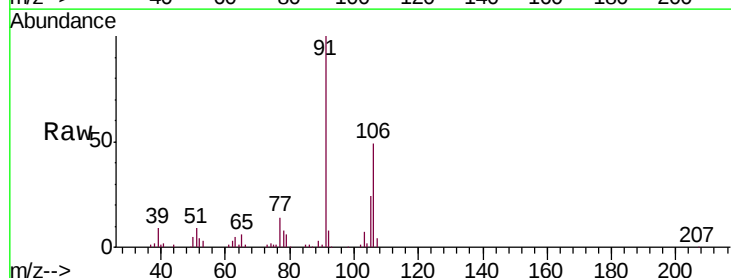
Acq: 25 Jul 2018 10:13

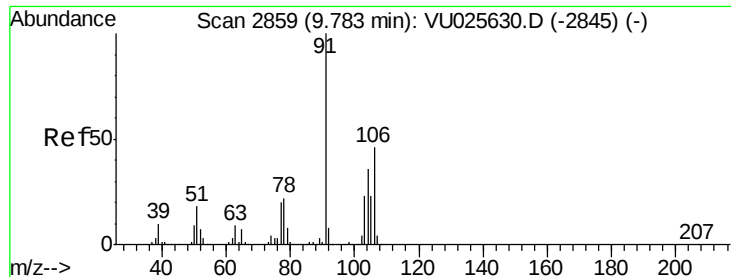
Tgt Ion: 106 Resp: 33286

Ion Ratio Lower Upper

106 100

91 205.4 164.1 246.1

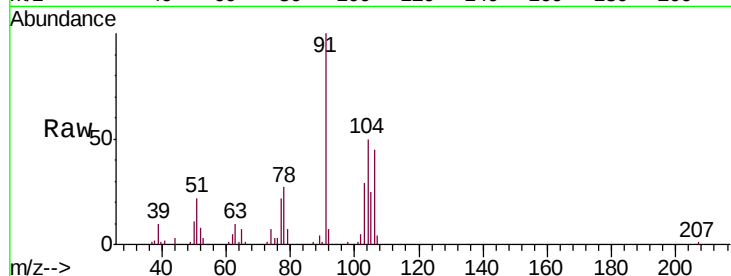




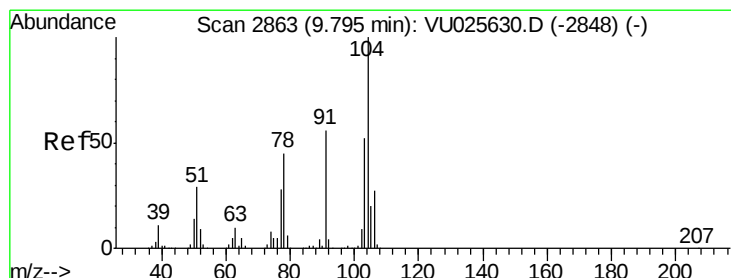
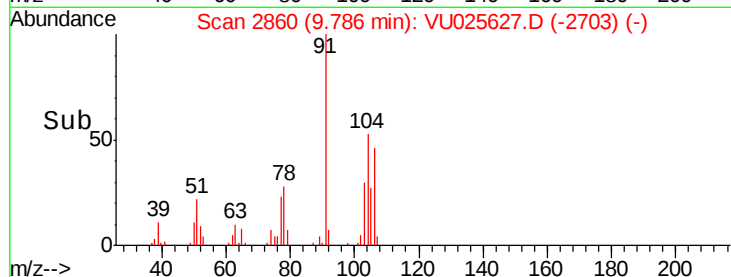
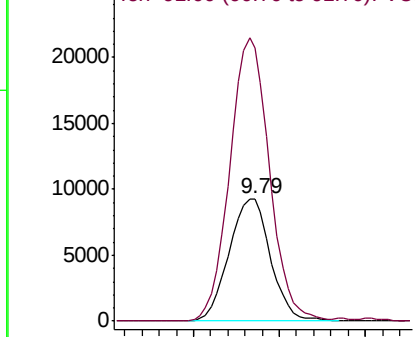
#65  
o-Xylene  
Concen: 0.999 ug/l  
RT: 9.79 min Scan# 2860  
Delta R.T. 0.00 min  
Lab File: VU025627.D  
Acq: 25 Jul 2018 10:13

Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion:106 Resp: 15572  
Ion Ratio Lower Upper  
106 100  
91 221.9 107.9 323.7

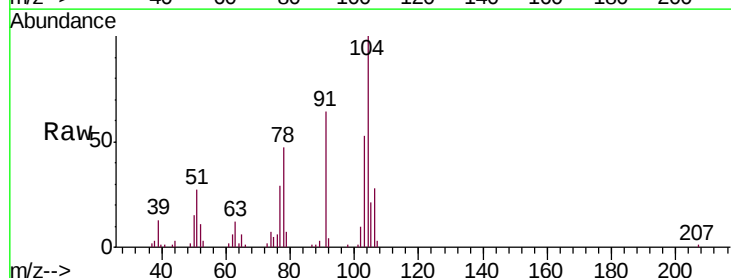


Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VU0

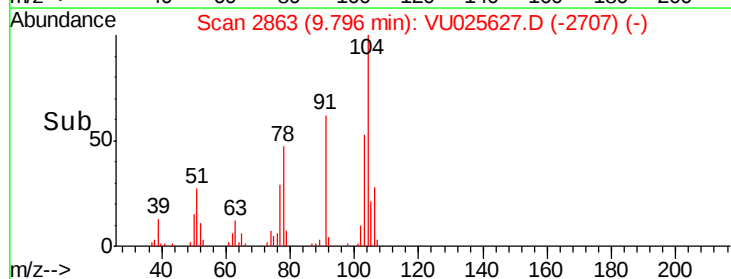
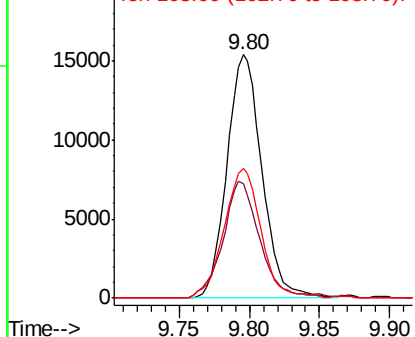


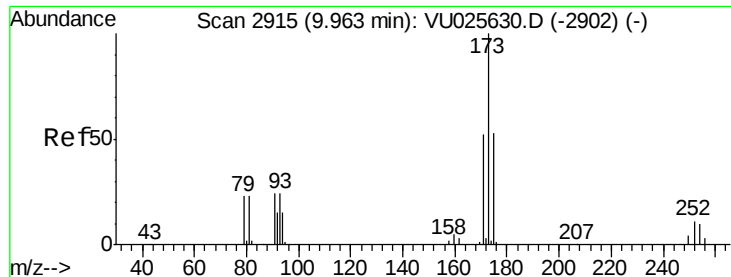
#66  
Styrene  
Concen: 1.040 ug/l  
RT: 9.80 min Scan# 2863  
Delta R.T. 0.00 min  
Lab File: VU025627.D  
Acq: 25 Jul 2018 10:13

Tgt Ion:104 Resp: 26743  
Ion Ratio Lower Upper  
104 100  
78 49.7 40.2 60.2  
103 55.9 44.2 66.4



Abundance Ion 104.00 (103.70 to 104.70): V  
Ion 78.00 (77.70 to 78.70): VU0  
Ion 103.00 (102.70 to 103.70): V

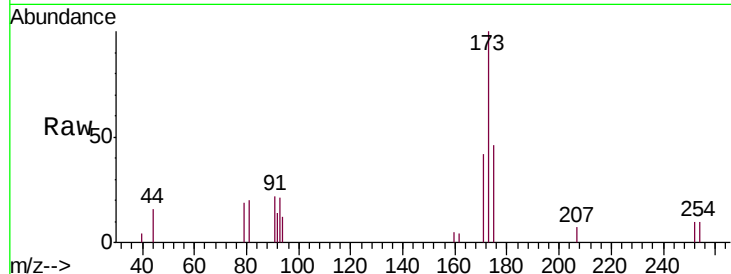




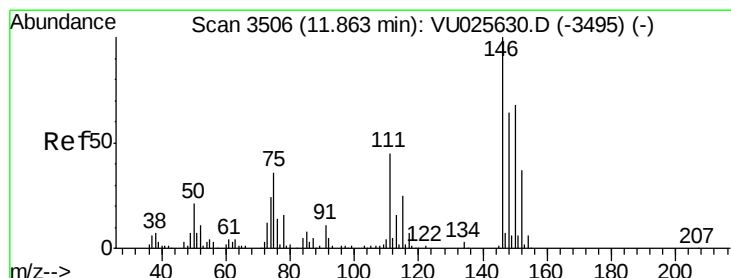
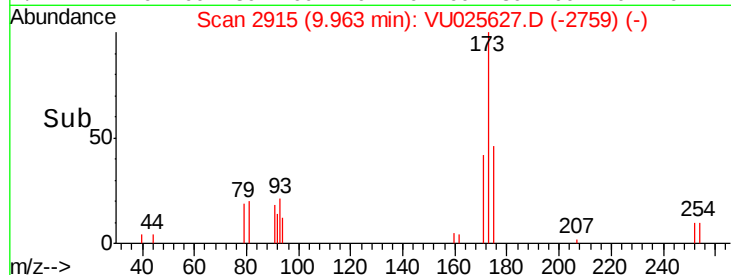
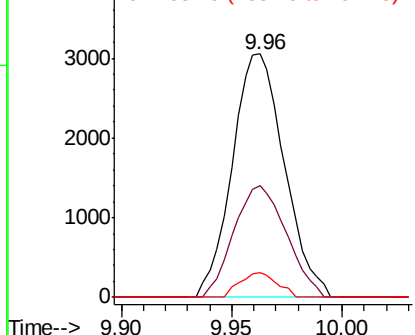
#67  
Bromoform  
Concen: 1.272 ug/l  
RT: 9.96 min Scan# 2915  
Delta R.T. 0.00 min  
Lab File: VU025627.D  
Acq: 25 Jul 2018 10:13

Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion:173 Resp: 4990  
Ion Ratio Lower Upper  
173 100  
175 46.4 38.6 57.8  
254 7.3 8.8 13.2#

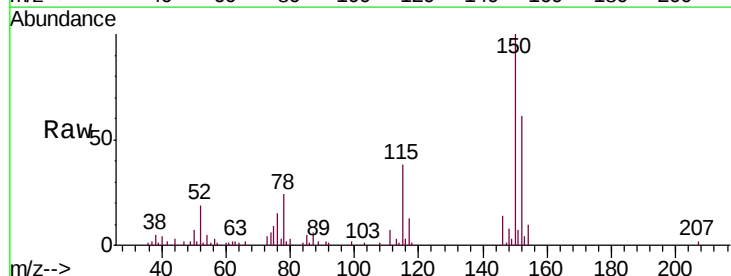


Abundance Ion 172.90 (172.60 to 173.60): V  
Ion 174.90 (174.60 to 175.60): V  
Ion 253.75 (253.45 to 254.45): V

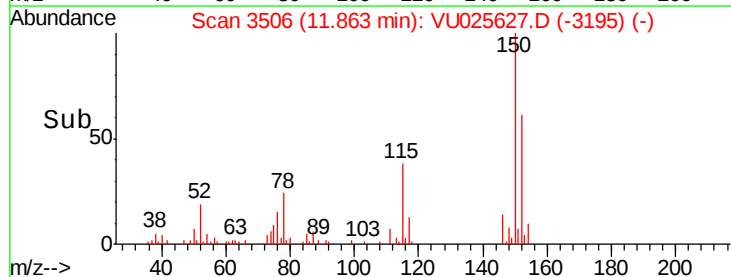
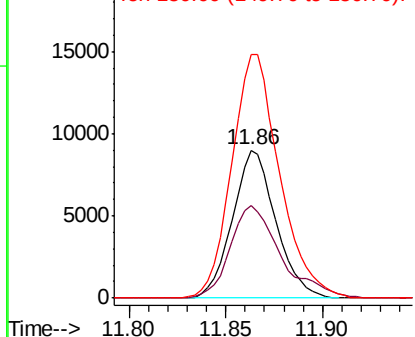


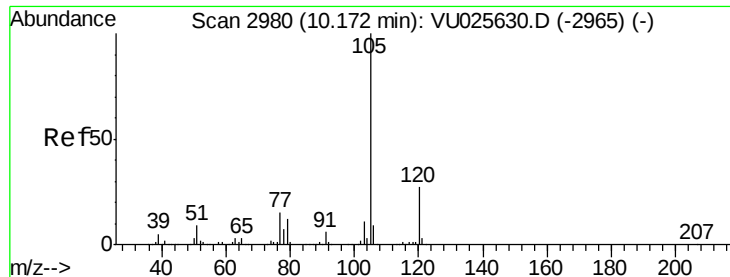
#68  
1,2-Dichlorobenzene-d4  
Concen: 1.272 ug/l  
RT: 11.86 min Scan# 3506  
Delta R.T. 0.00 min  
Lab File: VU025627.D  
Acq: 25 Jul 2018 10:13

Tgt Ion:152 Resp: 13991  
Ion Ratio Lower Upper  
152 100  
115 72.9 0.0 118.8  
150 182.8 0.0 0.0#



Abundance Ion 152.00 (151.70 to 152.70): V  
Ion 115.00 (114.70 to 115.70): V  
Ion 150.00 (149.70 to 150.70): V





#69

Isopropylbenzene

Concen: 1.059 ug/l

RT: 10.17 min Scan# 2979

Delta R.T. -0.00 min

Lab File: VU025627.D

Acq: 25 Jul 2018 10:13

Instrument :

MSVOA\_U

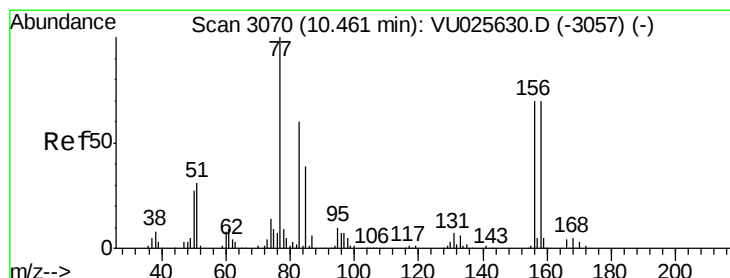
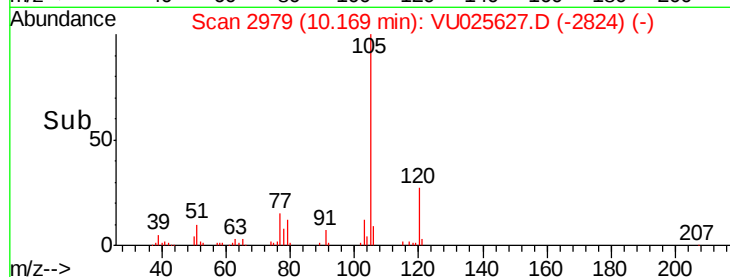
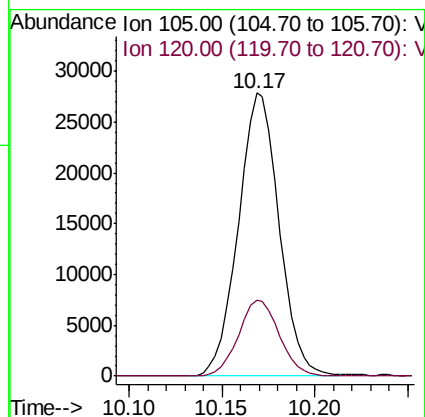
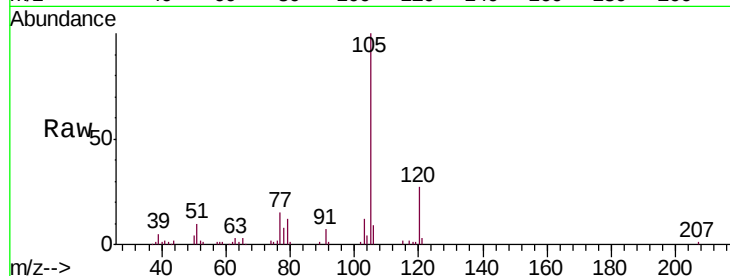
ClientSampled :

Tot Ion:105 Resp: 42513

Ion Ratio Lower Upper

105 100

120 26.8 13.1 39.3



#70

1,1,2,2-Tetrachloroethane

Concen: 1.097 ug/l

RT: 10.46 min Scan# 3071

Delta R.T. 0.00 min

Lab File: VU025627.D

Acq: 25 Jul 2018 10:13

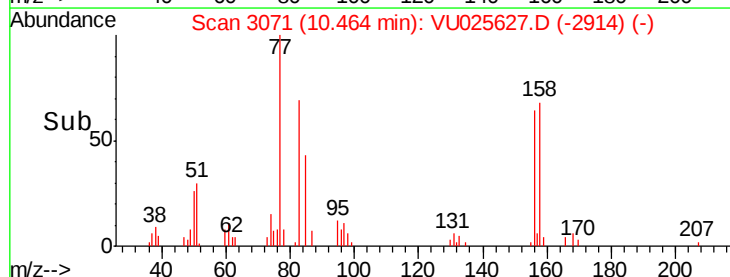
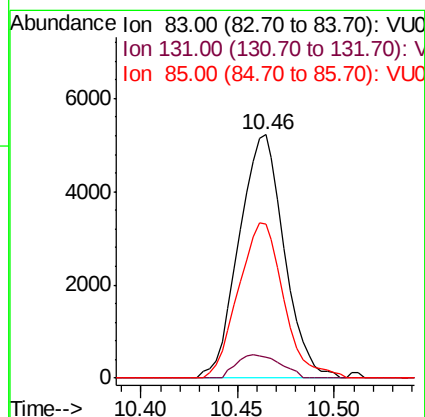
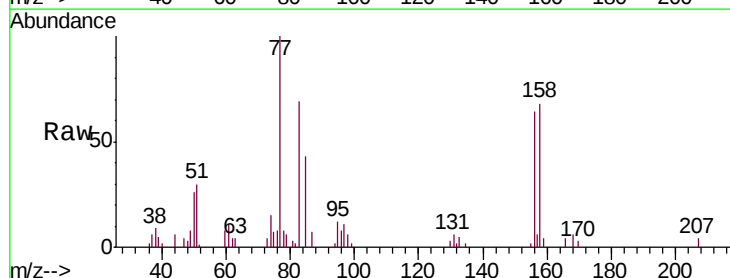
Tgt Ion: 83 Resp: 8473

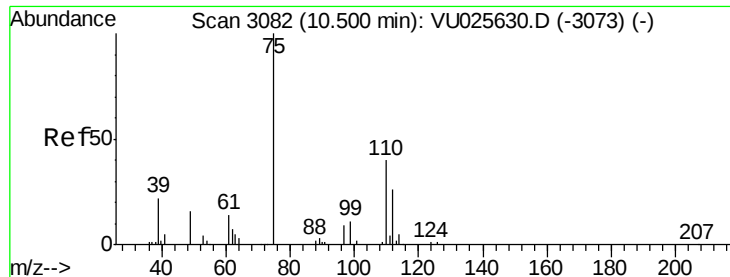
Ion Ratio Lower Upper

83 100

131 9.3 7.9 11.9

85 64.0 51.8 77.6

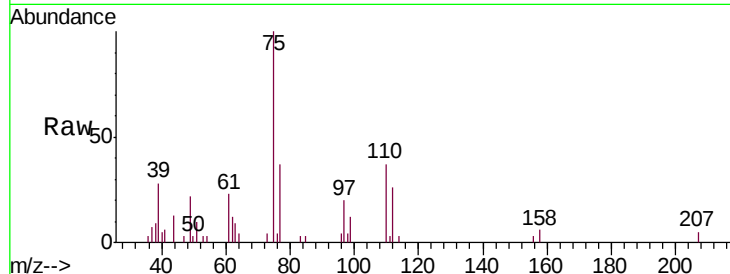




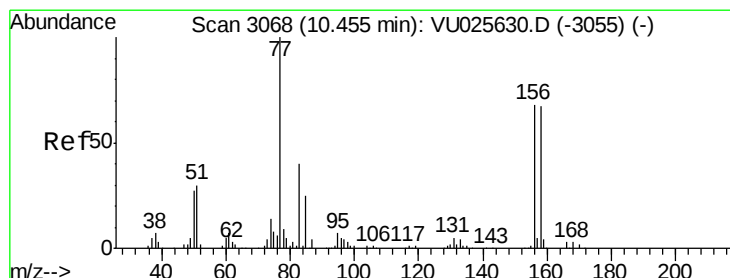
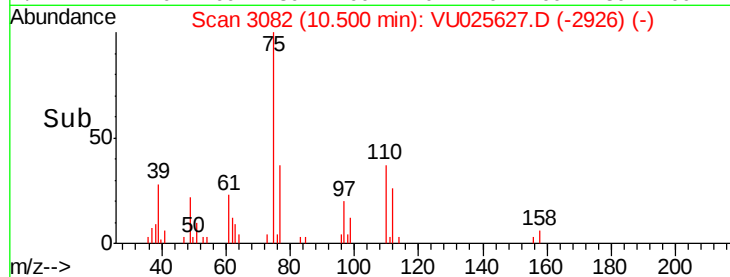
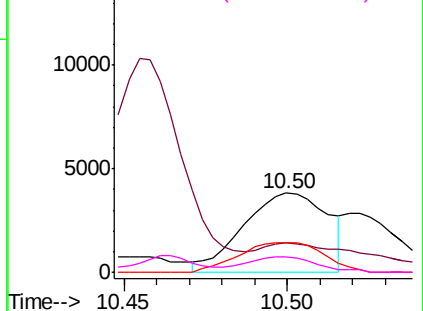
#71  
1,2,3-Trichloropropane  
Concen: 1.257 ug/l m  
RT: 10.50 min Scan# 3082  
Delta R.T. 0.00 min  
Lab File: VU025627.D  
Acq: 25 Jul 2018 10:13

Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 75 Resp: 6948  
Ion Ratio Lower Upper  
75 100  
77 47.5 0.0 0.0#  
110 36.9 0.0 74.0  
97 15.8 0.0 39.6

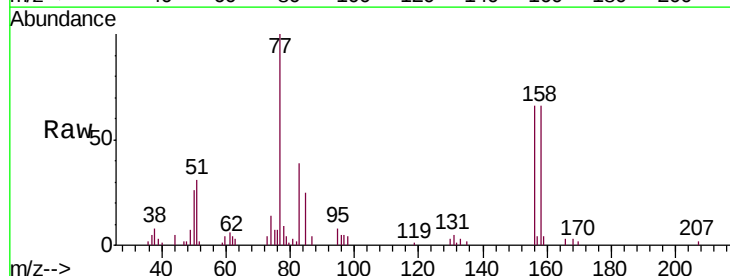


Abundance Ion 75.00 (74.70 to 75.70): VU0  
Ion 77.00 (76.70 to 77.70): VU0  
Ion 110.00 (109.70 to 110.70): V  
Ion 97.00 (96.70 to 97.70): VU0

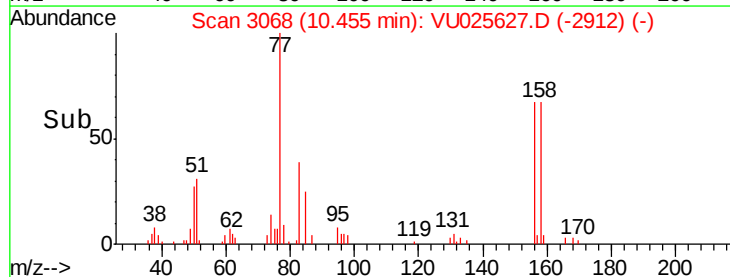
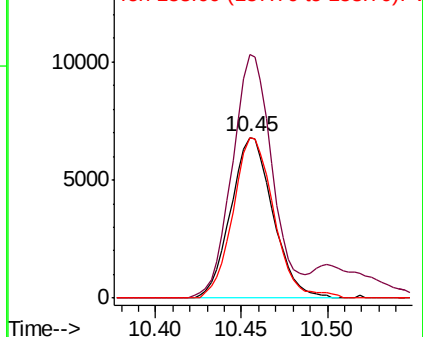


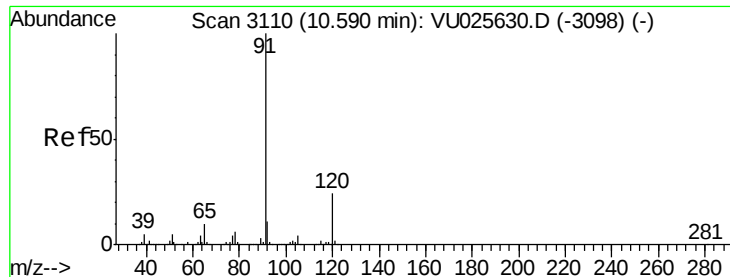
#72  
Bromobenzene  
Concen: 1.161 ug/l  
RT: 10.45 min Scan# 3068  
Delta R.T. 0.00 min  
Lab File: VU025627.D  
Acq: 25 Jul 2018 10:13

Tgt Ion: 156 Resp: 11601  
Ion Ratio Lower Upper  
156 100  
77 145.0 0.0 309.8  
158 96.8 0.0 193.0



Abundance Ion 156.00 (155.70 to 156.70): V  
Ion 77.00 (76.70 to 77.70): VU0  
Ion 158.00 (157.70 to 158.70): V





#73

n-propylbenzene

Concen: 1.034 ug/l

RT: 10.59 min Scan# 3110

Delta R.T. 0.00 min

Lab File: VU025627.D

Acq: 25 Jul 2018 10:13

Instrument :

MSVOA\_U

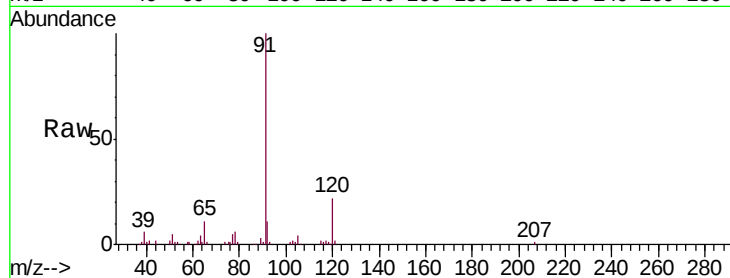
ClientSampleId :

Tot Ion:120 Resp: 11479

Ion Ratio Lower Upper

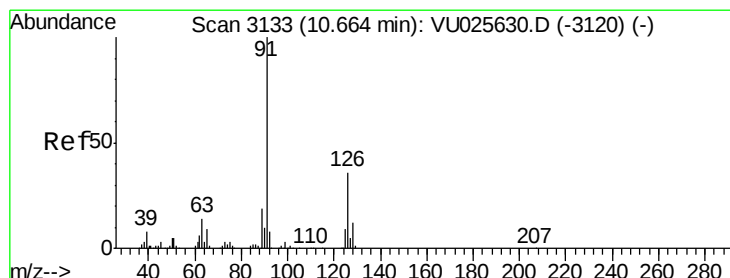
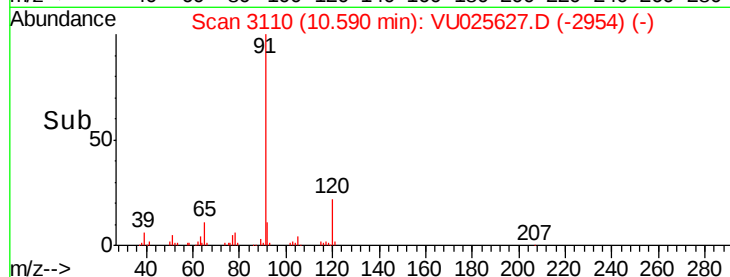
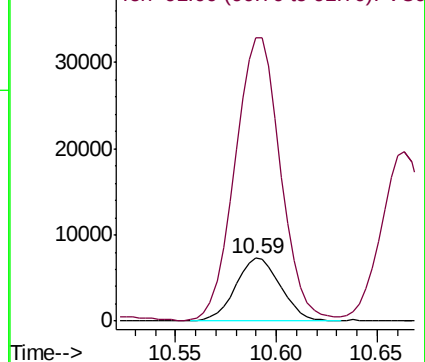
120 100

91 453.6 352.2 528.4



Abundance Ion 120.00 (119.70 to 120.70): V

Ion 91.00 (90.70 to 91.70): VU0



#74

2-Chlorotoluene

Concen: 1.051 ug/l

RT: 10.66 min Scan# 3133

Delta R.T. 0.00 min

Lab File: VU025627.D

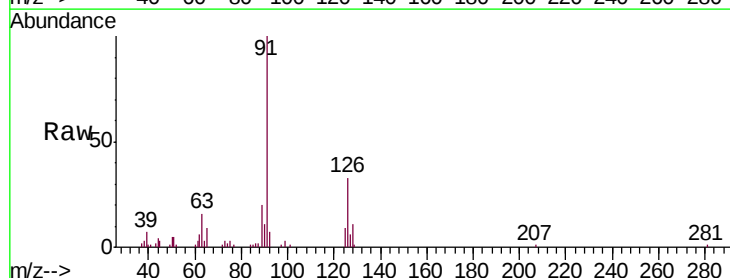
Acq: 25 Jul 2018 10:13

Tgt Ion:126 Resp: 10314

Ion Ratio Lower Upper

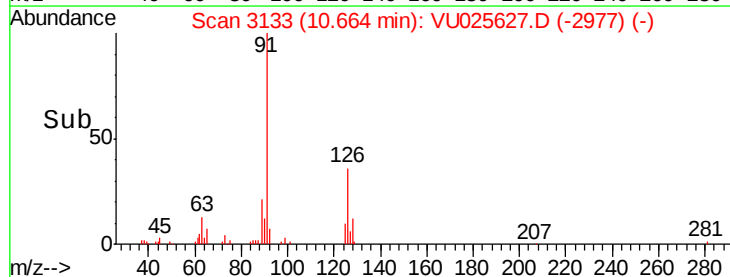
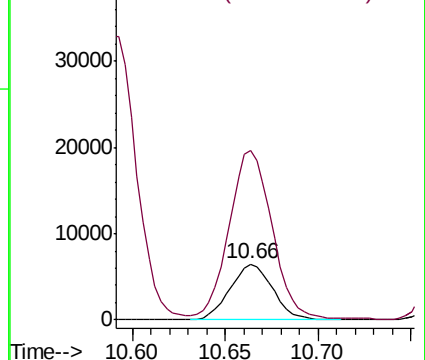
126 100

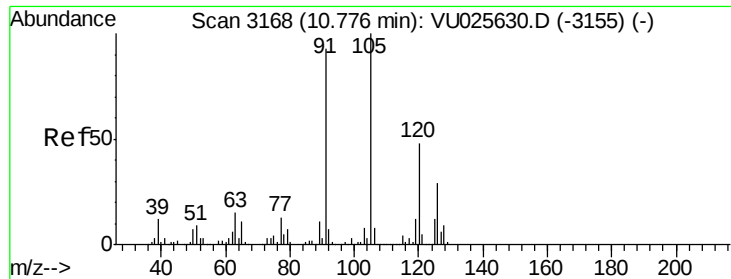
91 304.4 0.0 613.0



Abundance Ion 126.00 (125.70 to 126.70): V

Ion 91.00 (90.70 to 91.70): VU0





#75

1,3,5-Trimethylbenzene

Concen: 1.106 ug/l

RT: 10.78 min Scan# 3168

Delta R.T. 0.00 min

Lab File: VU025627.D

Acq: 25 Jul 2018 10:13

Instrument :

MSVOA\_U

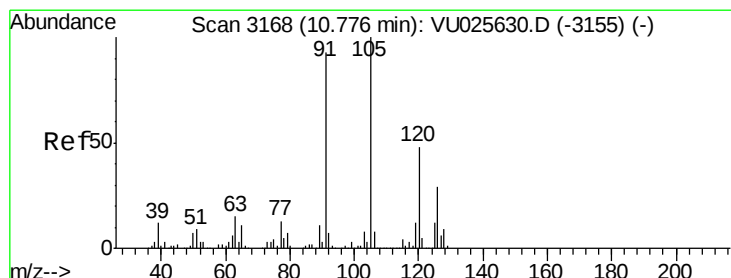
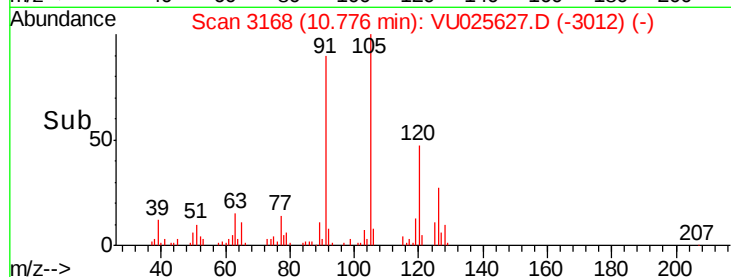
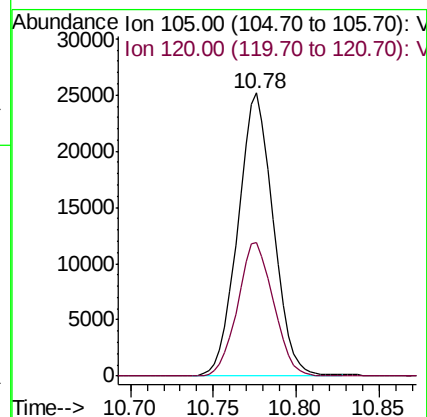
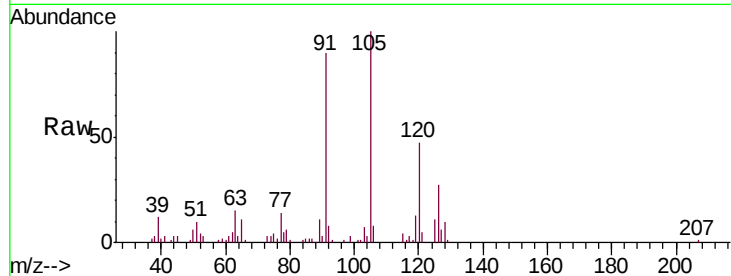
ClientSampleId :

Tot Ion:105 Resp: 37421

Ion Ratio Lower Upper

105 100

120 47.6 39.0 58.6



#76

4-Chlorotoluene

Concen: 1.065 ug/l

RT: 10.78 min Scan# 3168

Delta R.T. 0.00 min

Lab File: VU025627.D

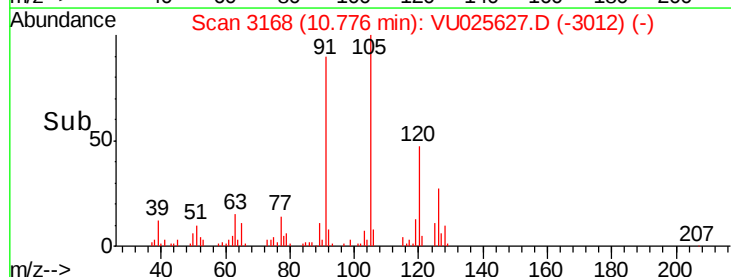
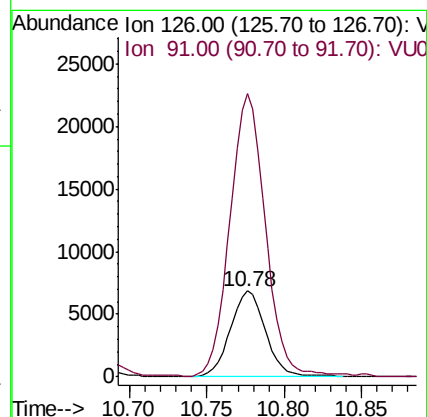
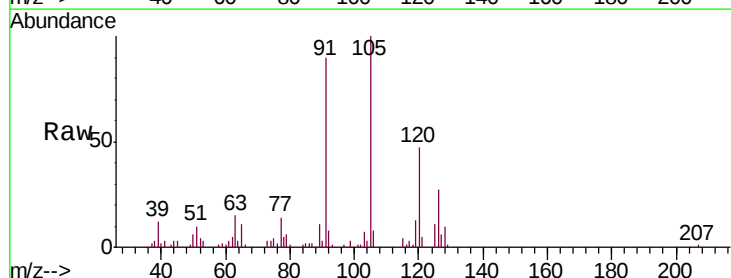
Acq: 25 Jul 2018 10:13

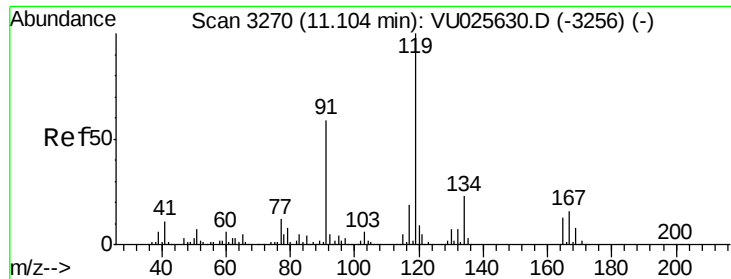
Tgt Ion:126 Resp: 10827

Ion Ratio Lower Upper

126 100

91 331.2 0.0 667.2

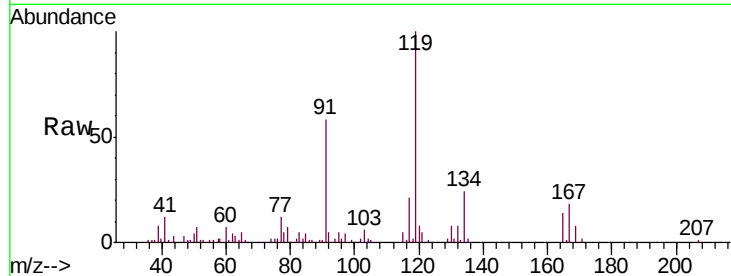




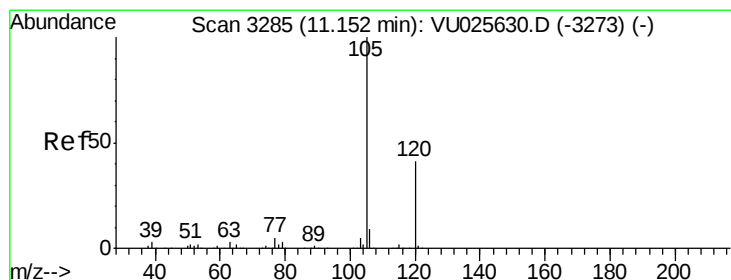
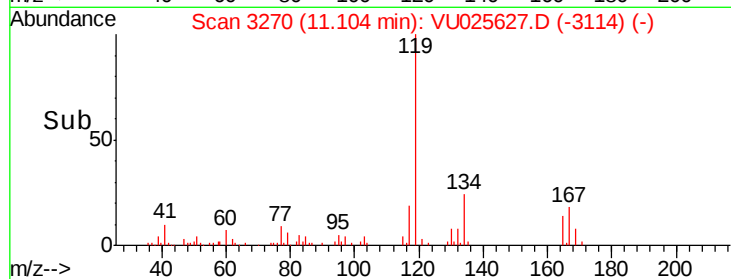
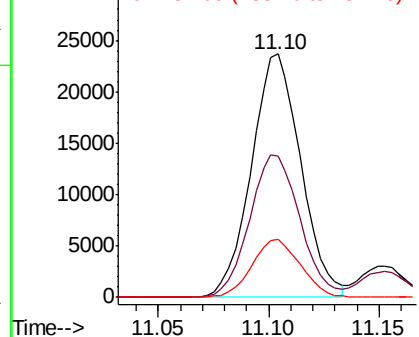
#77  
 tert-Butylbenzene  
 Concen: 1.162 ug/l  
 RT: 11.10 min Scan# 3270  
 Delta R.T. 0.00 min  
 Lab File: VU025627.D  
 Acq: 25 Jul 2018 10:13

Instrument :  
 MSVOA\_U  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 91      | 59.6  | 29.6  | 88.8  |
| 134     | 23.2  | 19.1  | 28.7  |

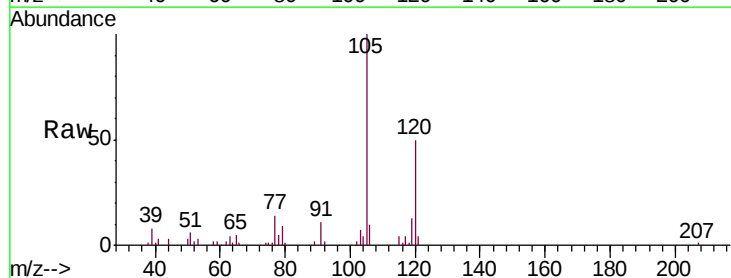


Abundance Ion 119.00 (118.70 to 119.70): V  
 Ion 91.00 (90.70 to 91.70): V  
 Ion 134.00 (133.70 to 134.70): V

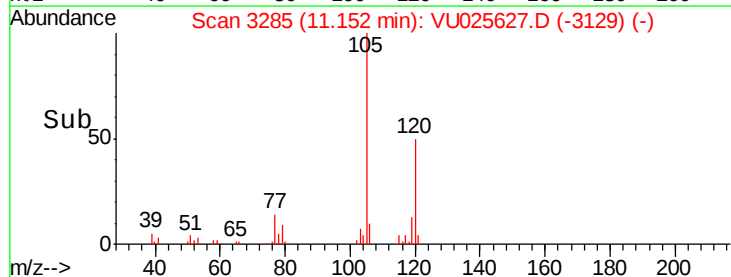
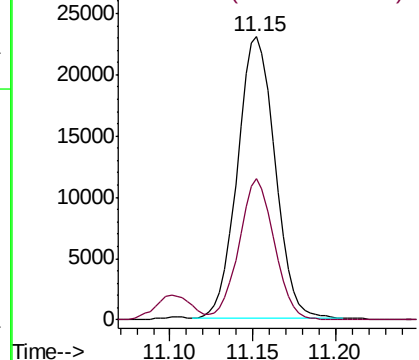


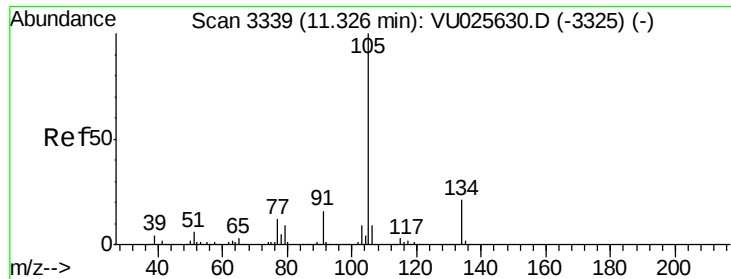
#78  
 1,2,4-Trimethylbenzene  
 Concen: 1.060 ug/l  
 RT: 11.15 min Scan# 3285  
 Delta R.T. 0.00 min  
 Lab File: VU025627.D  
 Acq: 25 Jul 2018 10:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 47.1  | 23.1  | 69.3  |



Abundance Ion 105.00 (104.70 to 105.70): V  
 Ion 120.00 (119.70 to 120.70): V





#79

sec-Butylbenzene

Concen: 1.091 ug/l

RT: 11.33 min Scan# 3339

Delta R.T. 0.00 min

Lab File: VU025627.D

Acq: 25 Jul 2018 10:13

Instrument :

MSVOA\_U

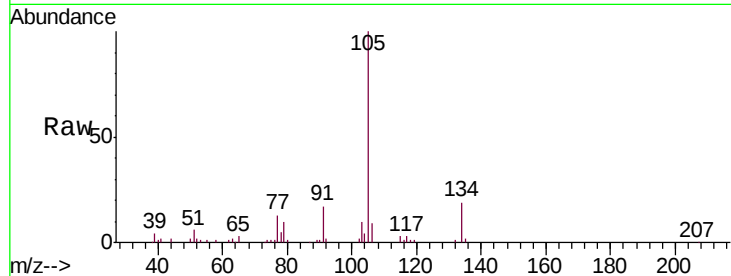
ClientSampleId :

Tot Ion:105 Resp: 48427

Ion Ratio Lower Upper

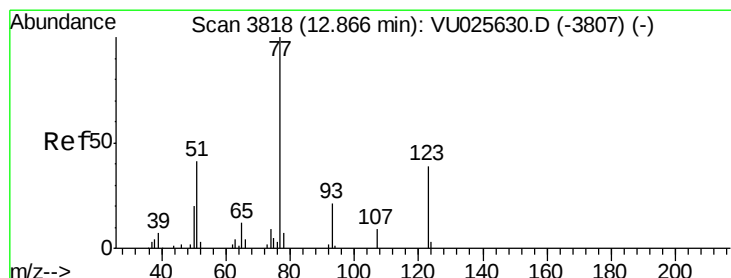
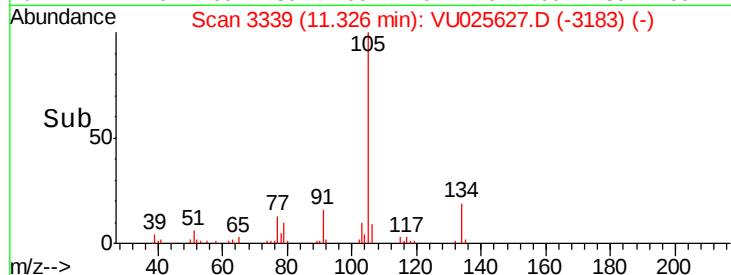
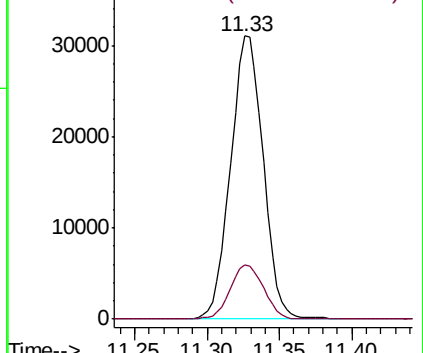
105 100

134 19.4 15.6 23.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#80

Nitrobenzene

Concen: 4.964 ug/l

RT: 12.87 min Scan# 3820

Delta R.T. 0.01 min

Lab File: VU025627.D

Acq: 25 Jul 2018 10:13

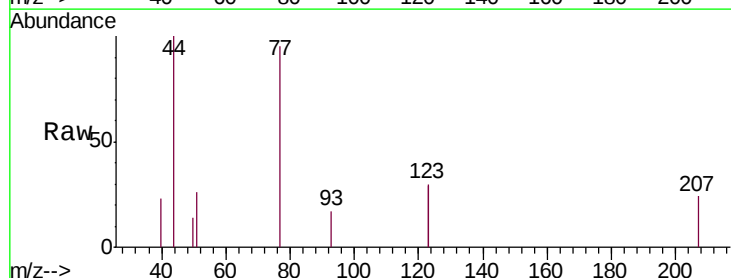
Tgt Ion: 77 Resp: 1332

Ion Ratio Lower Upper

77 100

123 32.4 19.4 68.6

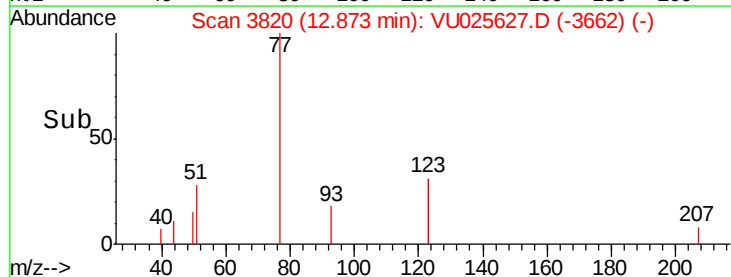
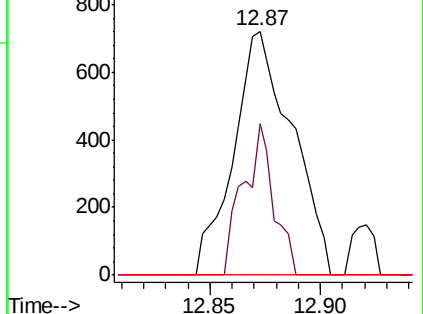
65 0.0 11.2 14.2#

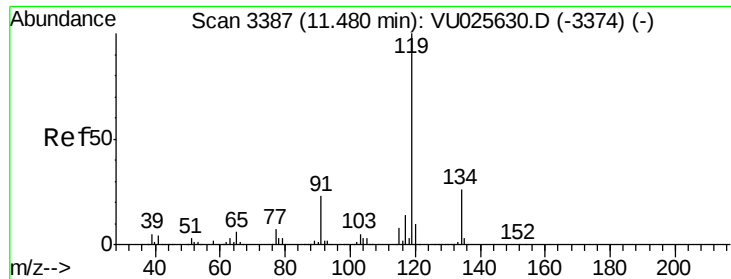


Abundance Ion 77.00 (76.70 to 77.70): VU0

Ion 123.00 (122.70 to 123.70): V

Ion 65.00 (64.70 to 65.70): VU0

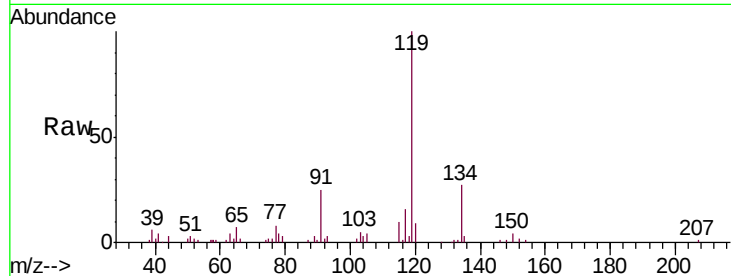




#81  
 p-Isopropyltoluene  
 Concen: 1.104 ug/l  
 RT: 11.48 min Scan# 3387  
 Delta R.T. 0.00 min  
 Lab File: VU025627.D  
 Acq: 25 Jul 2018 10:13

Instrument :  
 MSVOA\_U  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 26.9  | 20.9  | 31.3  |
| 91      | 25.3  | 18.2  | 27.2  |

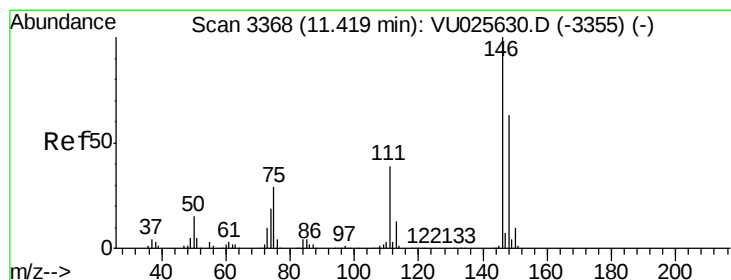
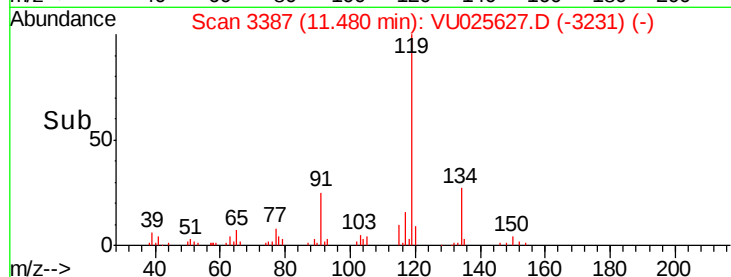
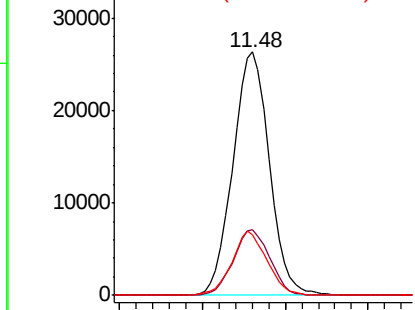


Abundance

Ion 119.00 (118.70 to 119.70): V

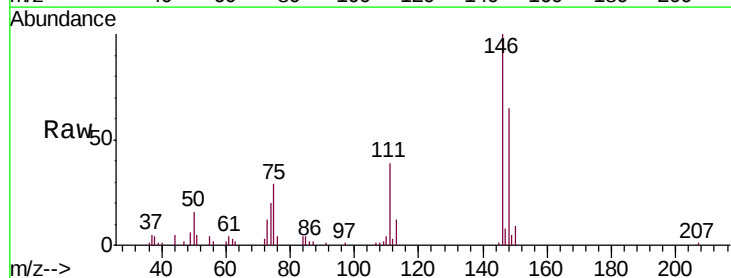
Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V



#82  
 1,3-Dichlorobenzene  
 Concen: 1.208 ug/l  
 RT: 11.42 min Scan# 3368  
 Delta R.T. 0.00 min  
 Lab File: VU025627.D  
 Acq: 25 Jul 2018 10:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 39.0  | 31.8  | 47.6  |
| 148     | 62.4  | 51.0  | 76.4  |

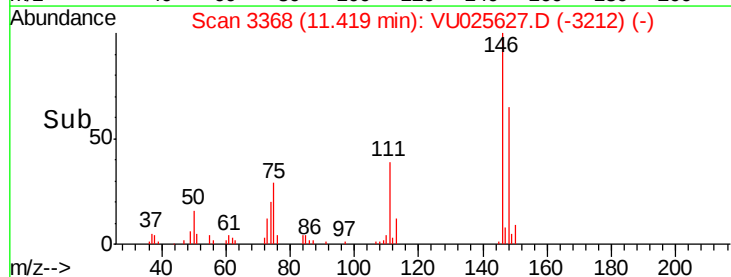
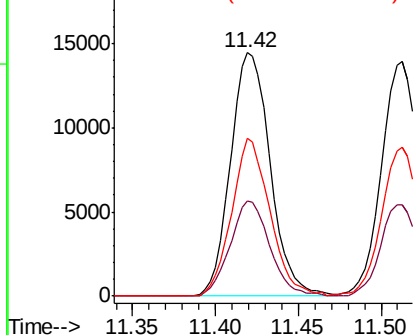


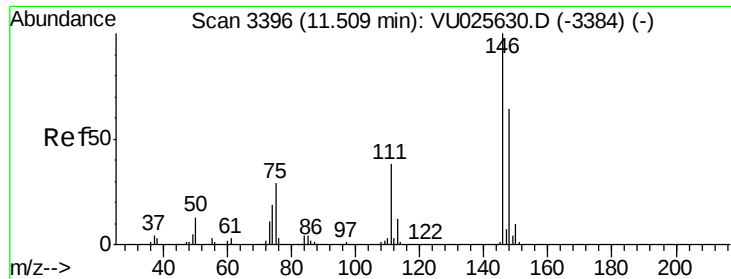
Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

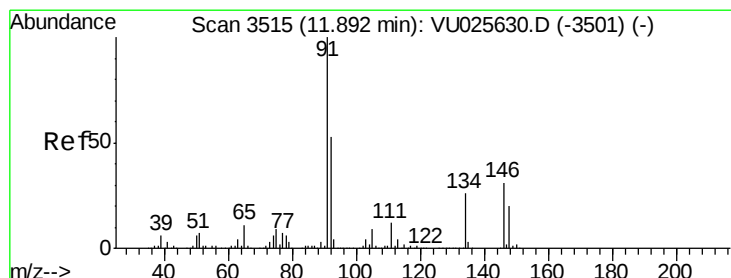
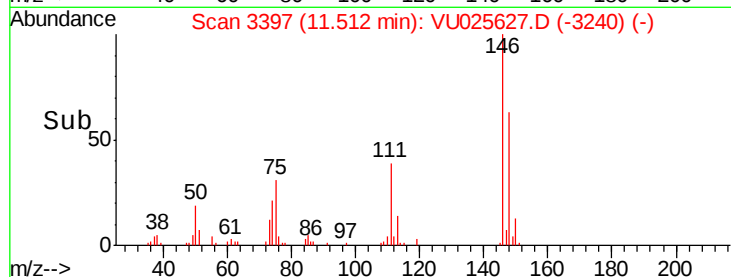
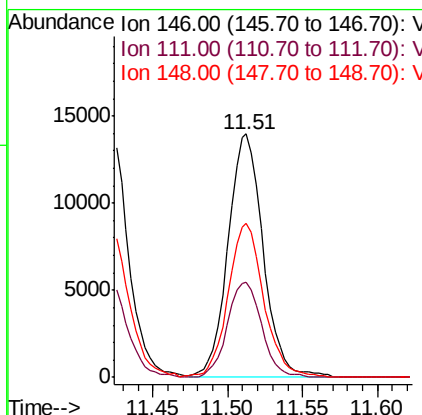
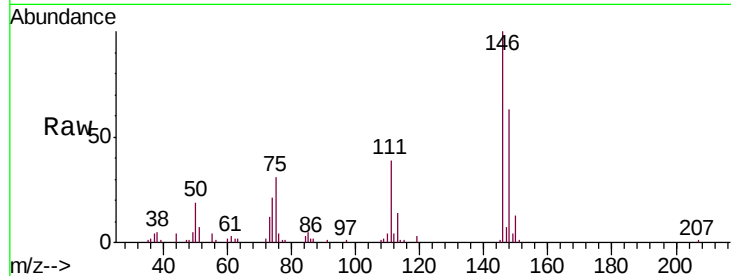




#83  
 1,4-Dichlorobenzene  
 Concen: 1.146 ug/l  
 RT: 11.51 min Scan# 3397  
 Delta R.T. 0.00 min  
 Lab File: VU025627.D  
 Acq: 25 Jul 2018 10:13

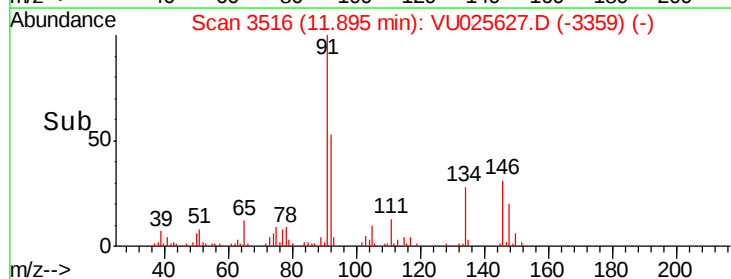
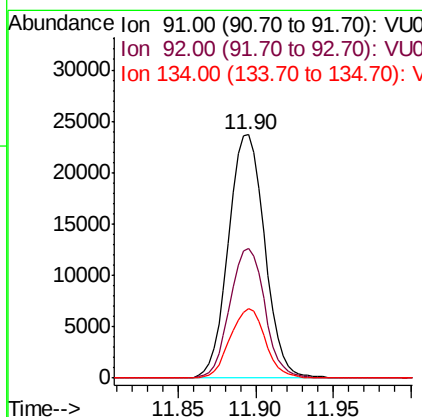
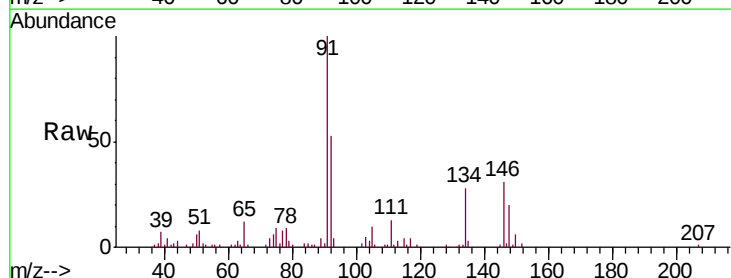
Instrument :  
 MSVOA\_U  
 ClientSampleId :

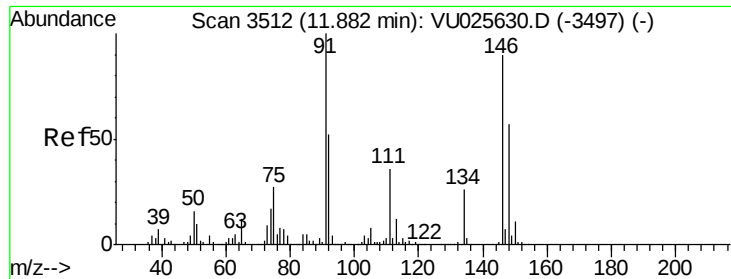
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 38.1  | 30.1  | 45.1  |
| 148     | 64.4  | 50.6  | 76.0  |



#84  
 n-Butylbenzene  
 Concen: 1.083 ug/l  
 RT: 11.90 min Scan# 3516  
 Delta R.T. 0.00 min  
 Lab File: VU025627.D  
 Acq: 25 Jul 2018 10:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 51.4  | 42.2  | 63.2  |
| 134     | 27.4  | 20.3  | 30.5  |

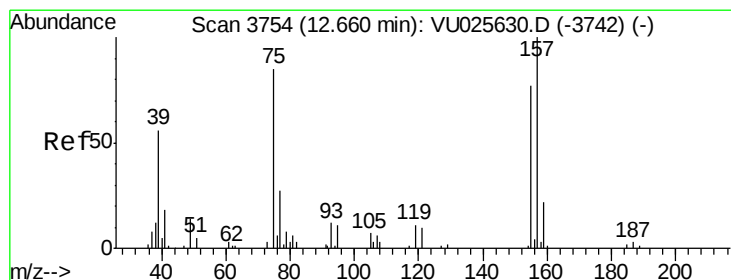
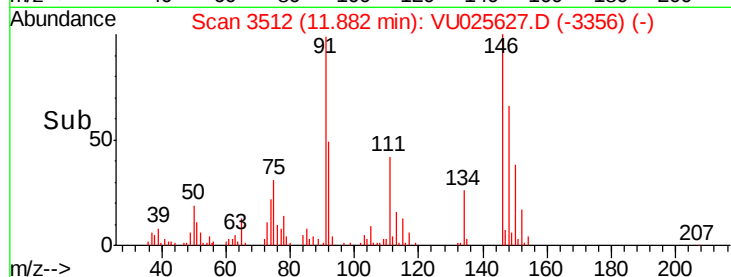
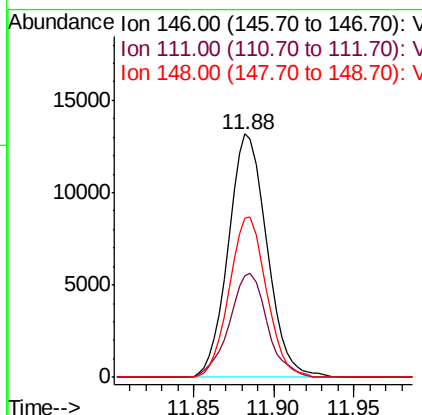
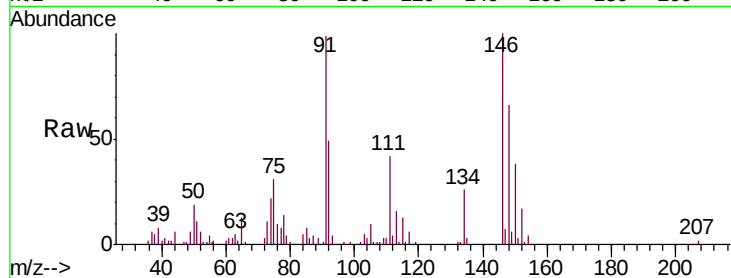




#85  
 1,2-Dichlorobenzene  
 Concen: 1.205 ug/l  
 RT: 11.88 min Scan# 3512  
 Delta R.T. 0.00 min  
 Lab File: VU025627.D  
 Acq: 25 Jul 2018 10:13

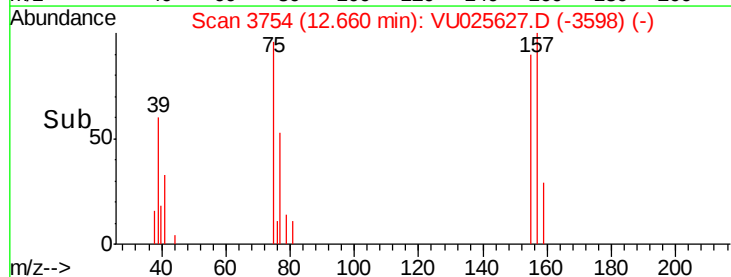
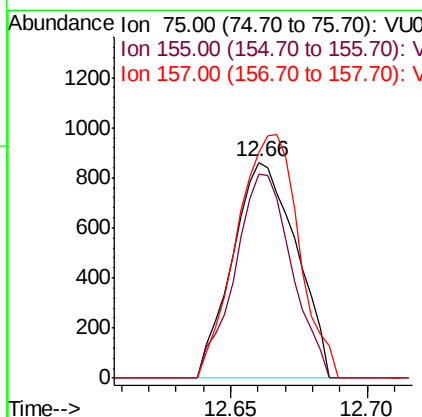
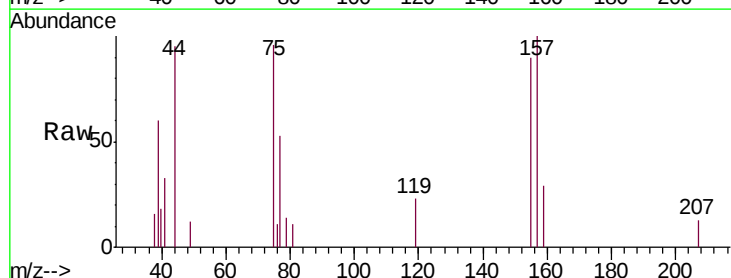
Instrument :  
 MSVOA\_U  
 ClientSampled :

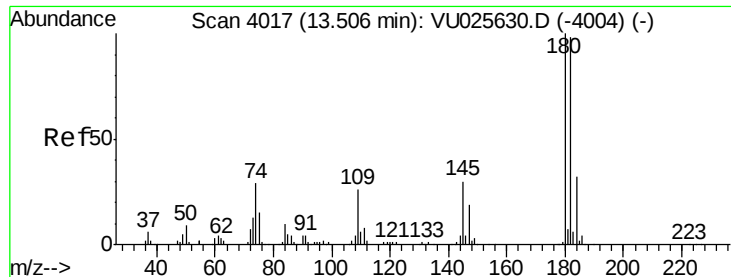
Tot Ion:146 Resp: 21710  
 Ion Ratio Lower Upper  
 146 100  
 111 41.8 20.7 62.1  
 148 63.4 31.9 95.5



#86  
 1,2-Dibromo-3-Chloropropane  
 Concen: 1.280 ug/l  
 RT: 12.66 min Scan# 3754  
 Delta R.T. 0.00 min  
 Lab File: VU025627.D  
 Acq: 25 Jul 2018 10:13

Tgt Ion: 75 Resp: 1396  
 Ion Ratio Lower Upper  
 75 100  
 155 84.1 65.8 98.6  
 157 110.3 83.5 125.3

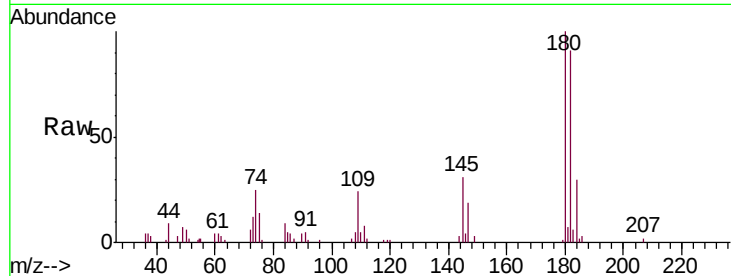




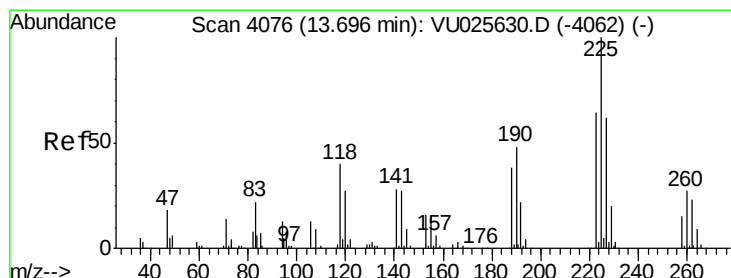
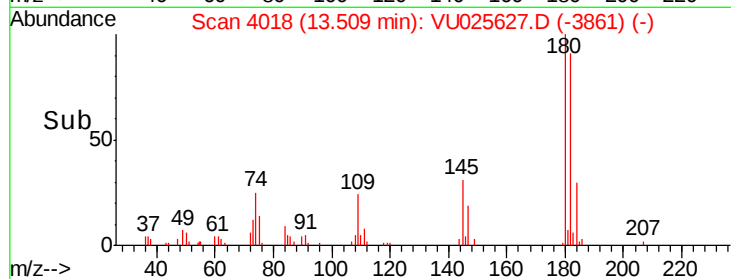
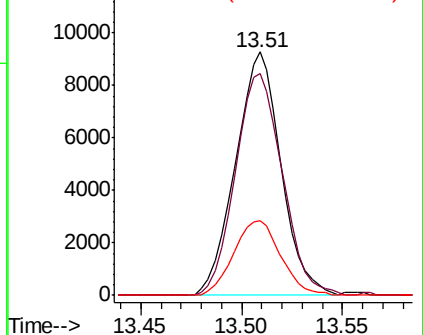
#87  
 1,2,4-Trichlorobenzene  
 Concen: 1.123 ug/l  
 RT: 13.51 min Scan# 4018  
 Delta R.T. 0.00 min  
 Lab File: VU025627.D  
 Acq: 25 Jul 2018 10:13

Instrument :  
 MSVOA\_U  
 ClientSampled :

Tot Ion:180 Resp: 14634  
 Ion Ratio Lower Upper  
 180 100  
 182 94.3 77.1 115.7  
 145 31.8 23.3 34.9

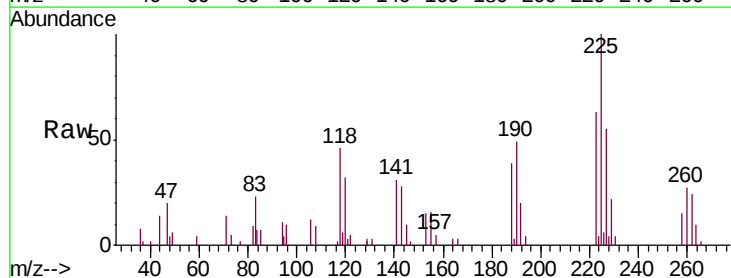


Abundance Ion 179.70 (179.40 to 180.40): V  
 Ion 181.80 (181.50 to 182.50): V  
 Ion 144.80 (144.50 to 145.50): V

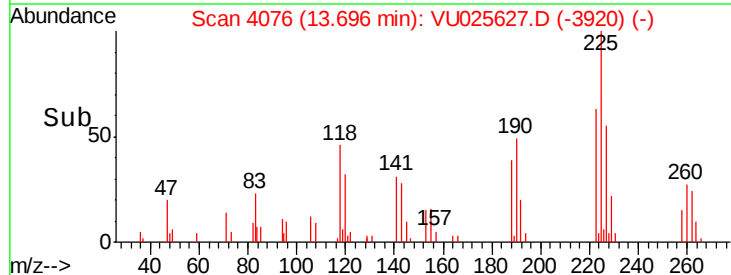
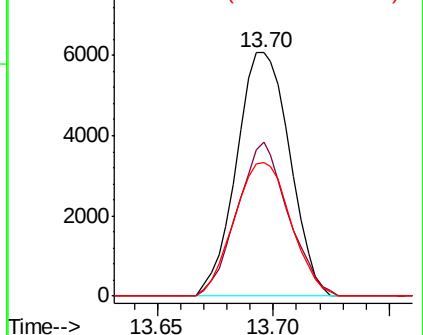


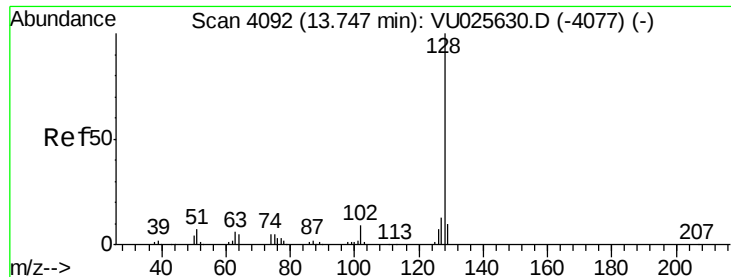
#88  
 Hexachlorobutadiene  
 Concen: 1.225 ug/l  
 RT: 13.70 min Scan# 4076  
 Delta R.T. 0.00 min  
 Lab File: VU025627.D  
 Acq: 25 Jul 2018 10:13

Tgt Ion:225 Resp: 9674  
 Ion Ratio Lower Upper  
 225 100  
 223 60.8 50.6 75.8  
 227 58.2 51.8 77.6



Abundance Ion 224.60 (224.30 to 225.30): V  
 Ion 222.60 (222.30 to 223.30): V  
 Ion 226.60 (226.30 to 227.30): V





#89

Naphthalene

Concen: 1.127 ug/l

RT: 13.75 min Scan# 4093

Delta R.T. 0.00 min

Lab File: VU025627.D

Acq: 25 Jul 2018 10:13

Instrument :

MSVOA\_U

ClientSampleId :

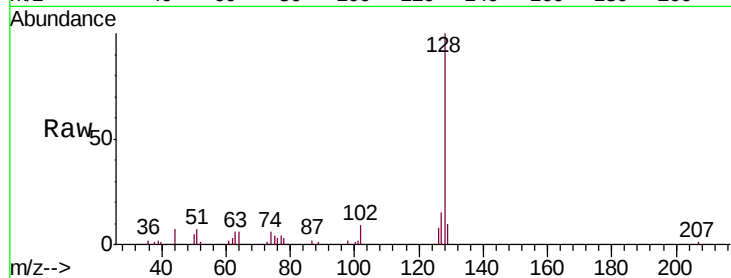
Tot Ion:128 Resp: 22108

Ion Ratio Lower Upper

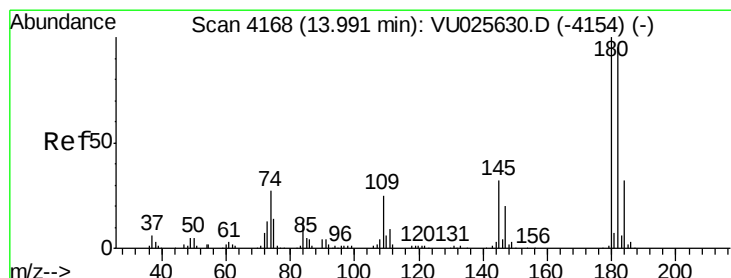
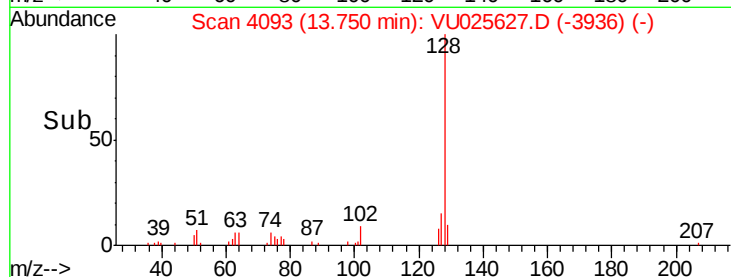
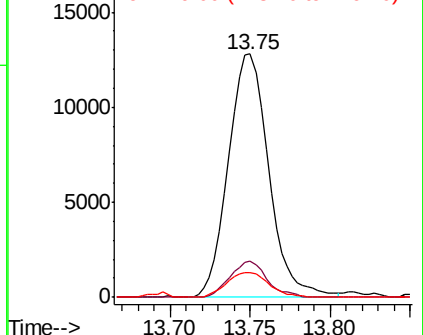
128 100

127 13.4 10.5 15.7

129 10.7 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V  
Ion 127.00 (126.70 to 127.70): V  
Ion 129.00 (128.70 to 129.70): V



#90

1,2,3-Trichlorobenzene

Concen: 1.101 ug/l

RT: 13.99 min Scan# 4168

Delta R.T. 0.00 min

Lab File: VU025627.D

Acq: 25 Jul 2018 10:13

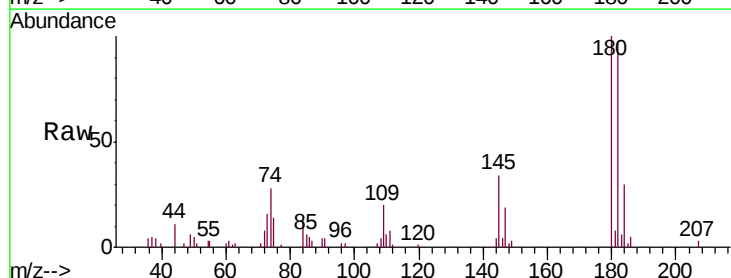
Tgt Ion:180 Resp: 13461

Ion Ratio Lower Upper

180 100

182 93.4 76.8 115.2

145 31.4 24.6 36.8



Abundance Ion 179.70 (179.40 to 180.40): V  
Ion 181.70 (181.40 to 182.40): V  
Ion 144.80 (144.50 to 145.50): V

