

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD080718\  
 Data File : VD059701.D  
 Acq On : 7 Aug 2018 13:26  
 Operator : VA/AP  
 Sample : J4297-05  
 Misc : 5.70g/5ml/MSVOA D/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Aug 08 08:05:23 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D080618S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 08 02:03:19 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.62  | 168  | 168258   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.68  | 114  | 227975   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.70 | 117  | 104033   | 50.00 | ug/l  | 0.02     |
| 72) 1,4-Dichlorobenzene-d4 | 12.89 | 152  | 60752    | 50.00 | ug/l  | -0.01    |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.00   | 65  | 103084   | 47.63 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 95.26%  |      |
| 35) Dibromofluoromethane  | 5.53   | 113 | 88055    | 43.00 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 86.00%  |      |
| 50) Toluene-d8            | 8.71   | 98  | 345452   | 77.50 | ug/l    | 0.02 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 155.00% |      |
| 62) 4-Bromofluorobenzene  | 11.92  | 95  | 144421   | 70.21 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 140.42% |      |

## Target Compounds

|                               |       |     |         |           |        | Qvalue |
|-------------------------------|-------|-----|---------|-----------|--------|--------|
| 14) Allyl chloride            | 2.97  | 41  | 2090    | 1.105     | ug/l # | 57     |
| 15) Acrylonitrile             | 3.36  | 53  | 1830    | 8.377     | ug/l # | 58     |
| 16) Acetone                   | 2.59  | 43  | 43377   | 106.687   | ug/l   | 100    |
| 18) Methyl Acetate            | 3.06  | 43  | 61957   | 82.468    | ug/l # | 57     |
| 20) Methylene Chloride        | 3.05  | 84  | 1104    | Below Cal | #      | 80     |
| 25) 2-Butanone                | 4.82  | 43  | 10148   | 19.003    | ug/l   | 94     |
| 29) Tetrahydrofuran           | 5.57  | 42  | 207966  | 1005.562  | ug/l # | 33     |
| 30) Chloroform                | 5.25  | 83  | 6605    | 1.840     | ug/l # | 17     |
| 31) Cyclohexane               | 5.57  | 56  | 388439  | 211.212   | ug/l # | 76     |
| 36) 1,1-Dichloropropene       | 5.63  | 75  | 16039   | 6.328     | ug/l # | 59     |
| 37) Ethyl Acetate             | 4.82  | 43  | 10148   | 8.246     | ug/l # | 91     |
| 38) Carbon Tetrachloride      | 5.62  | 117 | 17663   | 5.208     | ug/l # | 13     |
| 39) Methylcyclohexane         | 7.29  | 83  | 2424288 | 1131.805  | ug/l   | 96     |
| 40) Benzene                   | 6.00  | 78  | 72191   | 14.687    | ug/l   | 93     |
| 41) Methacrylonitrile         | 5.13  | 41  | 2780    | 4.832     | ug/l # | 53     |
| 43) Isopropyl Acetate         | 7.65  | 43  | 123118  | 76.545    | ug/l # | 46     |
| 45) 1,2-Dichloropropane       | 7.29  | 63  | 38854   | 29.935    | ug/l # | 1      |
| 47) Bromodichloromethane      | 7.68  | 83  | 33684   | 11.758    | ug/l # | 83     |
| 48) Methyl methacrylate       | 7.54  | 41  | 244237  | 230.056   | ug/l # | 80     |
| 51) 4-Methyl-2-Pentanone      | 8.71  | 43  | 189385  | 161.452   | ug/l # | 47     |
| 52) Toluene                   | 8.81  | 92  | 1662514 | 530.220   | ug/l   | 96     |
| 55) 1,1,2-Trichloroethane     | 9.38  | 97  | 544884  | 452.435   | ug/l # | 18     |
| 56) Ethyl methacrylate        | 9.38  | 69  | 143609  | 108.074   | ug/l # | 1      |
| 58) 2-Chloroethyl Vinyl ether | 8.17  | 63  | 3933    | 6.213     | ug/l # | 49     |
| 59) 2-Hexanone                | 9.77  | 43  | 2285711 | 2594.888  | ug/l # | 39     |
| 60) Dibromochloromethane      | 9.94  | 129 | 2528    | 1.321     | ug/l   | 65     |
| 61) 1,2-Dibromoethane         | 10.16 | 107 | 1774    | 1.281     | ug/l # | 1      |
| 65) Chlorobenzene             | 10.66 | 112 | 16386   | 7.474     | ug/l # | 42     |
| 67) Ethyl Benzene             | 10.87 | 91  | 2713804 | 687.353   | ug/l   | 95     |
| 68) m/p-Xylenes               | 11.04 | 106 | 2427139 | 1921.686  | ug/l   | 91     |
| 69) o-Xylene                  | 11.44 | 106 | 1307738 | 1065.049  | ug/l   | 94     |
| 70) Styrene                   | 11.44 | 104 | 68526   | 33.248    | ug/l # | 1      |
| 73) Isopropylbenzene          | 11.79 | 105 | 1377633 | 337.422   | ug/l   | 92     |
| 74) N-amyl acetate            | 11.63 | 43  | 1368972 | 1048.063  | ug/l # | 68     |

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 Acq On : 7 Aug 2018 13:26  
 Operator : VA/AP  
 Sample : J4297-05  
 Misc : 5.70g/5ml/MSVOA D/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

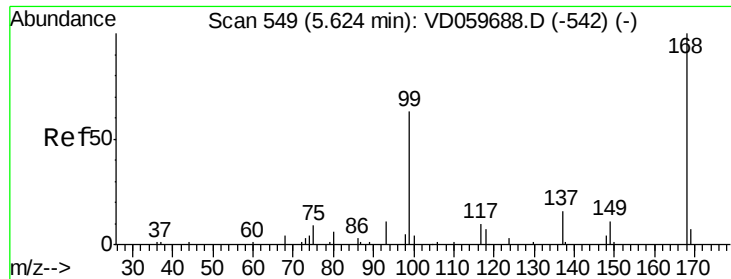
Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Aug 08 08:05:23 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D080618S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 08 02:03:19 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 75) 1,1,2,2-Tetrachloroethane  | 12.12 | 83   | 519605   | 634.223  | ug/l # | 43       |
| 76) 1,2,3-Trichloropropane     | 12.17 | 75   | 24605    | 26.199   | ug/l # | 1        |
| 77) Bromobenzene               | 12.14 | 156  | 1792     | 1.506    | ug/l # | 1        |
| 78) n-propylbenzene            | 12.17 | 91   | 2982967  | 589.562  | ug/l   | 94       |
| 79) 2-Chlorotoluene            | 12.17 | 91   | 2982967  | 976.207  | ug/l # | 48       |
| 80) 1,3,5-Trimethylbenzene     | 12.35 | 105  | 1868316  | 549.348  | ug/l   | 95       |
| 81) trans-1,4-Dichloro-2-buten | 11.79 | 75   | 22764    | 99.320   | ug/l # | 1        |
| 82) 4-Chlorotoluene            | 12.35 | 91   | 277844   | 77.674   | ug/l # | 57       |
| 83) tert-Butylbenzene          | 12.60 | 119  | 43502    | 11.428   | ug/l   | 68       |
| 84) 1,2,4-Trimethylbenzene     | 12.67 | 105  | 3961013  | 1098.996 | ug/l   | 98       |
| 85) sec-Butylbenzene           | 12.78 | 105  | 773913   | 183.074  | ug/l   | 88       |
| 86) p-Isopropyltoluene         | 12.86 | 119  | 711252   | 197.295  | ug/l   | 90       |
| 89) n-Butylbenzene             | 13.22 | 91   | 1241881  | 339.745  | ug/l # | 71       |
| 90) Hexachloroethane           | 13.42 | 117  | 259408   | 277.634  | ug/l # | 7        |
| 92) 1,2-Dibromo-3-Chloropropan | 13.79 | 75   | 18735    | 109.485  | ug/l # | 1        |
| 95) Naphthalene                | 14.52 | 128  | 367152   | 159.329  | ug/l   | 99       |

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

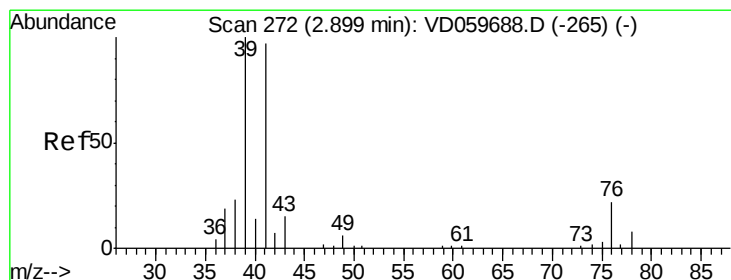
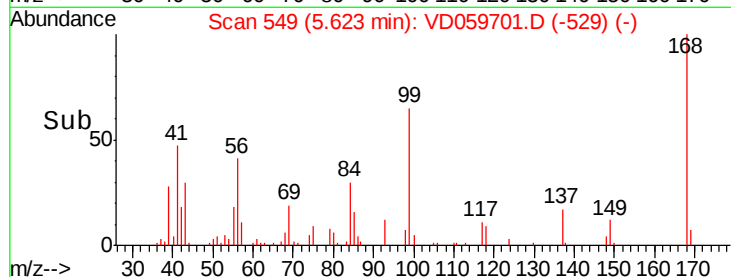
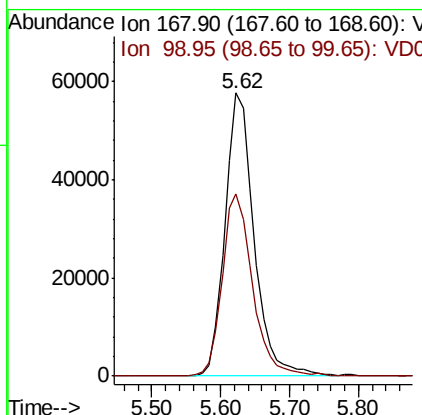
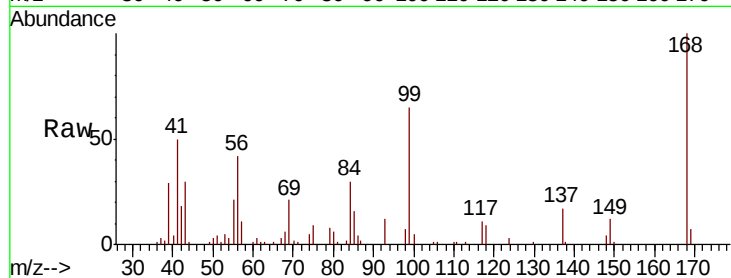




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.62 min Scan# 549  
Delta R.T. -0.00 min  
Lab File: VD059701.D  
Acq: 7 Aug 2018 13:26

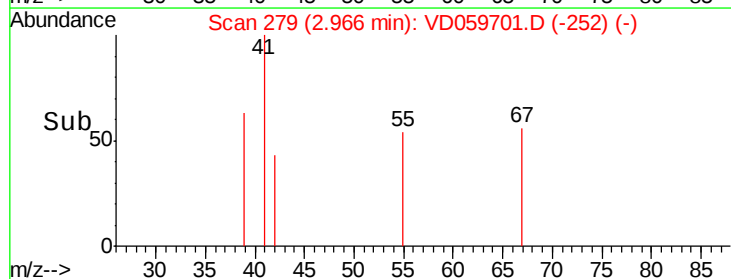
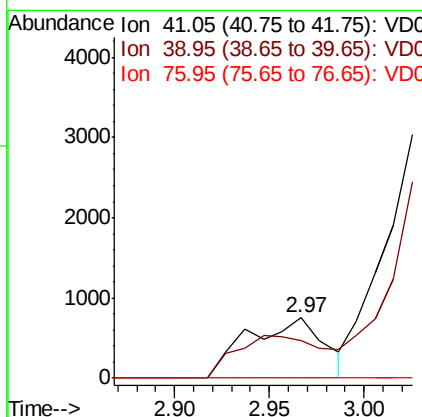
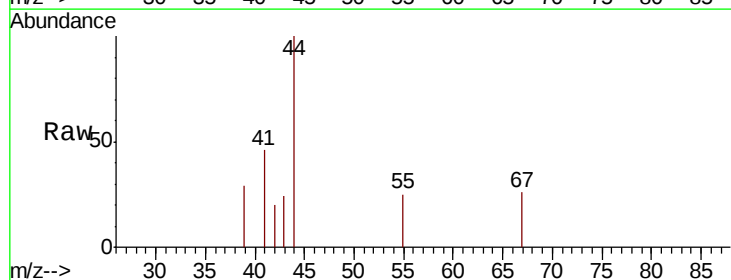
Instrument :  
MSVOA\_D  
ClientSampleId :

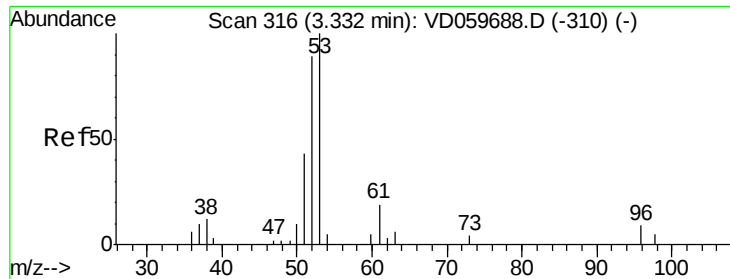
Tot Ion:168 Resp: 168258  
Ion Ratio Lower Upper  
168 100  
99 64.6 53.4 80.2



#14  
Allyl chloride  
Concen: 1.105 ug/l  
RT: 2.97 min Scan# 279  
Delta R.T. 0.07 min  
Lab File: VD059701.D  
Acq: 7 Aug 2018 13:26

Tgt Ion: 41 Resp: 2090  
Ion Ratio Lower Upper  
41 100  
39 62.6 82.5 123.7#  
76 0.0 22.1 33.1#





#15

Acrylonitrile

Concen: 8.377 ug/l

RT: 3.36 min Scan# 319

Delta R.T. 0.03 min

Lab File: VD059701.D

Acq: 7 Aug 2018 13:26

Instrument :

MSVOA\_D

ClientSampled :

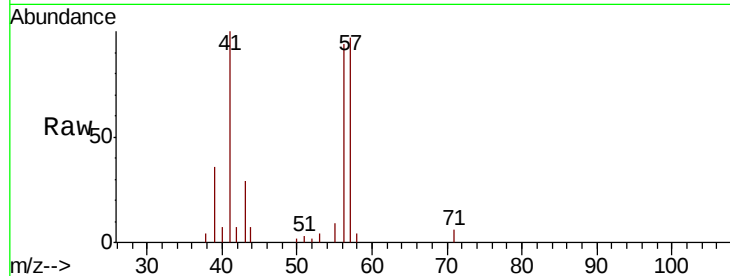
Tot Ion: 53 Resp: 1830

Ion Ratio Lower Upper

53 100

52 60.9 71.4 107.0#

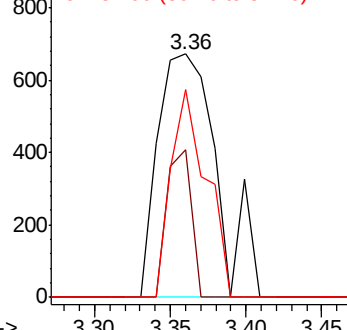
51 85.1 34.2 51.4#



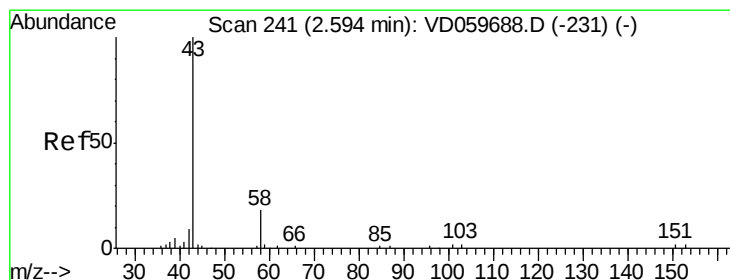
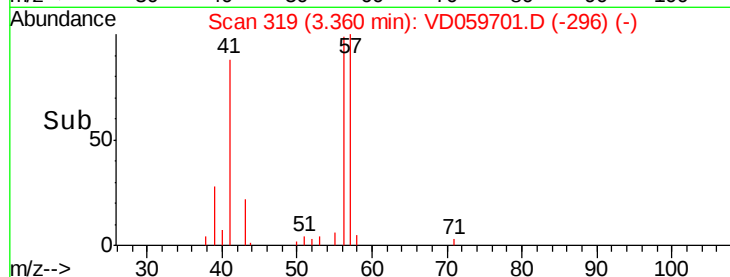
Abundance Ion 53.00 (52.70 to 53.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

Ion 51.00 (50.70 to 51.70): VDC



Time-->



#16

Acetone

Concen: 106.687 ug/l

RT: 2.59 min Scan# 241

Delta R.T. -0.00 min

Lab File: VD059701.D

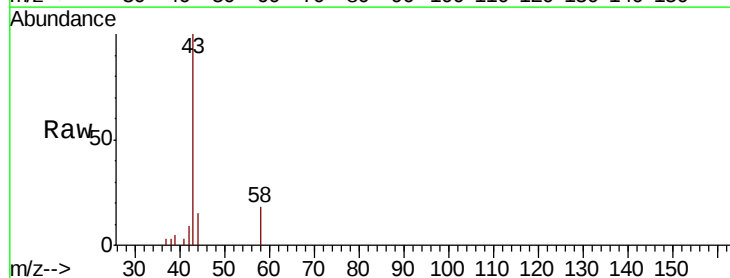
Acq: 7 Aug 2018 13:26

Tgt Ion: 43 Resp: 43377

Ion Ratio Lower Upper

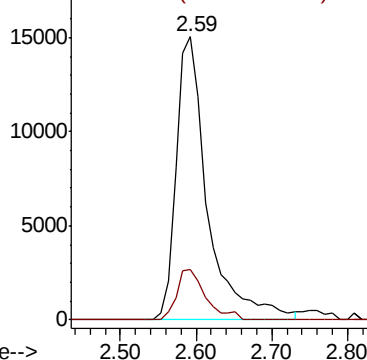
43 100

58 17.9 14.2 21.2

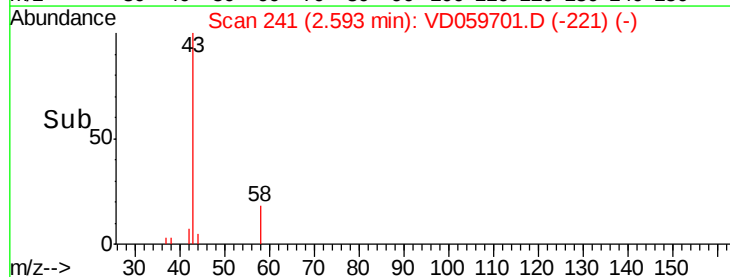


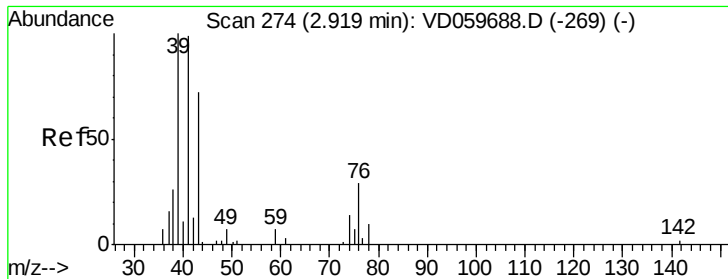
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



Time-->

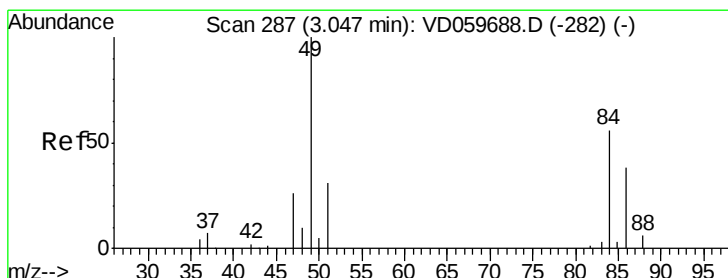
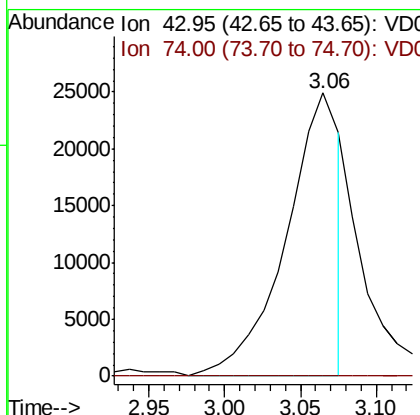
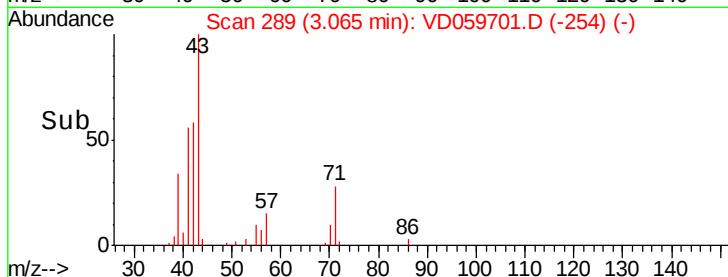
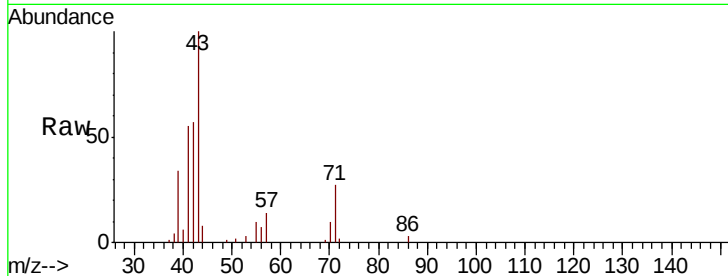




#18  
Methyl Acetate  
Concen: 82.468 ug/l  
RT: 3.06 min Scan# 289  
Delta R.T. 0.15 min  
Lab File: VD059701.D  
Acq: 7 Aug 2018 13:26

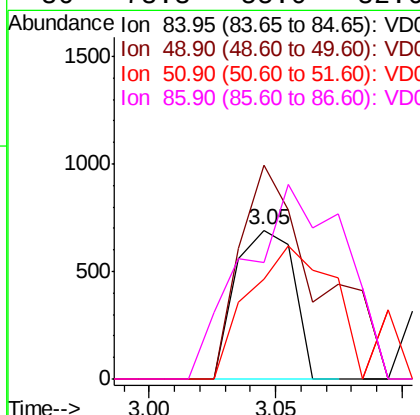
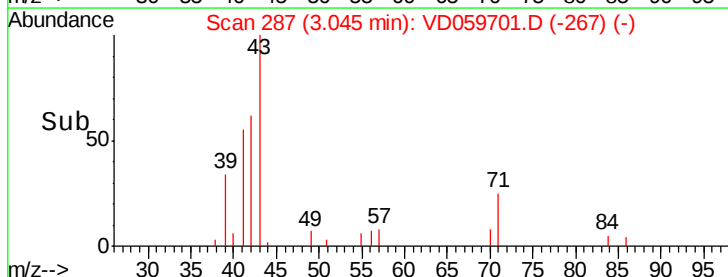
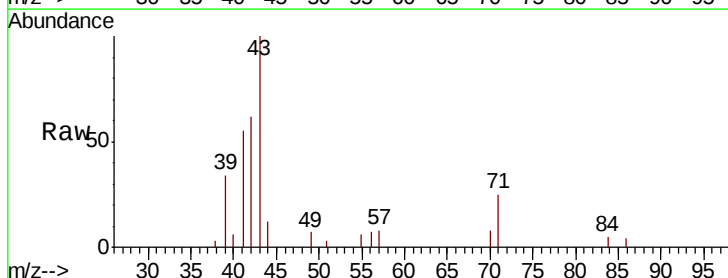
Instrument :  
MSVOA\_D  
ClientSampled :

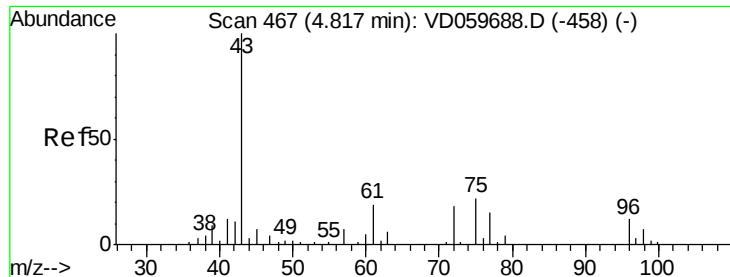
Tot Ion: 43 Resp: 61957  
Ion Ratio Lower Upper  
43 100  
74 0.0 15.7 23.5#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 3.05 min Scan# 287  
Delta R.T. -0.00 min  
Lab File: VD059701.D  
Acq: 7 Aug 2018 13:26

Tgt Ion: 84 Resp: 1104  
Ion Ratio Lower Upper  
84 100  
49 143.7 143.4 215.2  
51 67.0 44.2 66.4#  
86 78.3 55.0 82.6





#25

2-Butanone

Concen: 19.003 ug/l

RT: 4.82 min Scan# 467

Delta R.T. -0.00 min

Lab File: VD059701.D

Acq: 7 Aug 2018 13:26

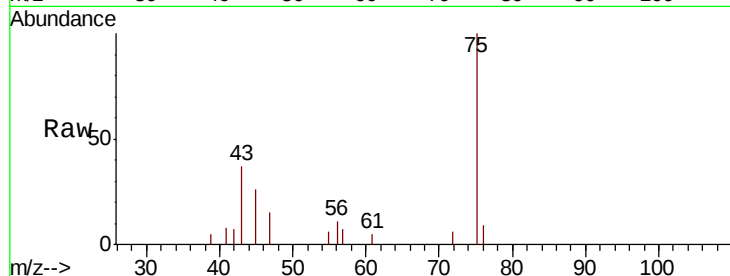
Instrument :  
MSVOA\_D  
ClientSampled :

Tot Ion: 43 Resp: 10148

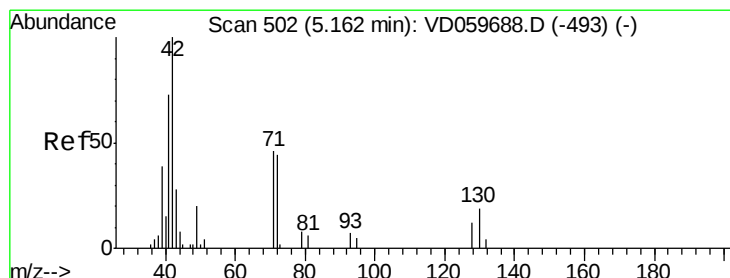
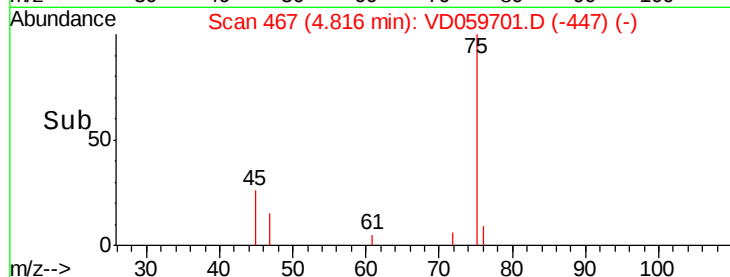
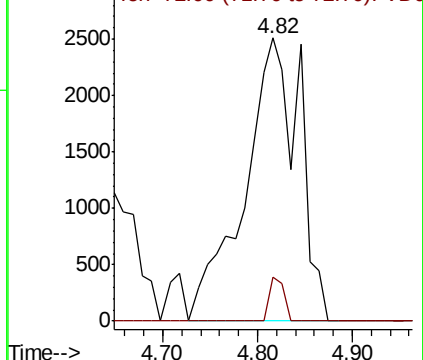
Ion Ratio Lower Upper

43 100

72 15.6 14.6 21.8



Abundance Ion 42.95 (42.65 to 43.65): VDC  
Ion 72.00 (71.70 to 72.70): VDC



#29

Tetrahydrofuran

Concen: 1005.562 ug/l

RT: 5.57 min Scan# 544

Delta R.T. 0.41 min

Lab File: VD059701.D

Acq: 7 Aug 2018 13:26

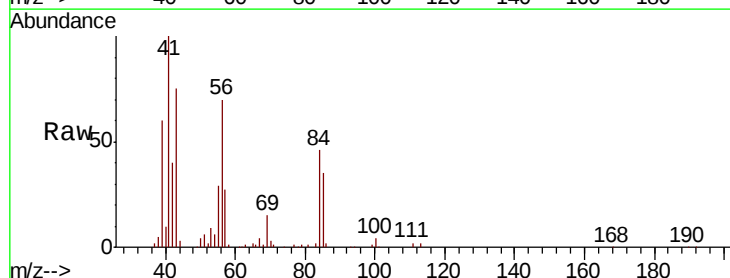
Tgt Ion: 42 Resp: 207966

Ion Ratio Lower Upper

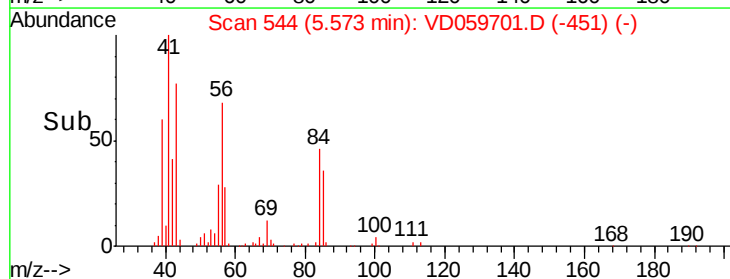
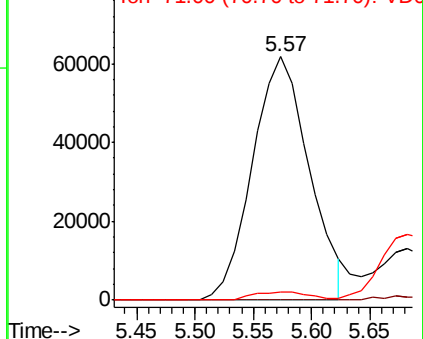
42 100

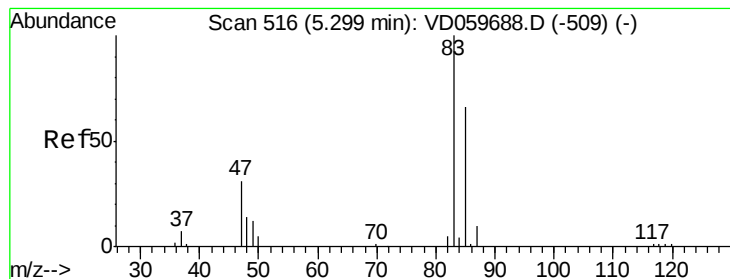
72 0.0 36.7 55.1#

71 3.4 36.3 54.5#



Abundance Ion 42.00 (41.70 to 42.70): VDC  
Ion 72.00 (71.70 to 72.70): VDC  
Ion 71.00 (70.70 to 71.70): VDC





#30

Chloroform

Concen: 1.840 ug/l

RT: 5.25 min Scan# 511

Delta R.T. -0.05 min

Lab File: VD059701.D

Acq: 7 Aug 2018 13:26

Instrument :

MSVOA\_D

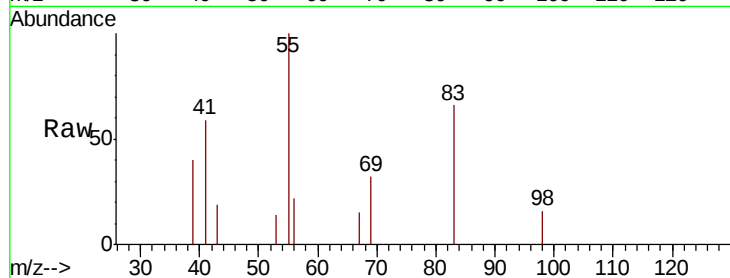
ClientSampleId :

Tot Ion: 83 Resp: 6605

Ion Ratio Lower Upper

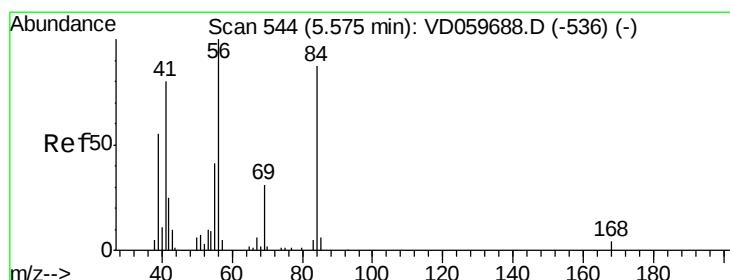
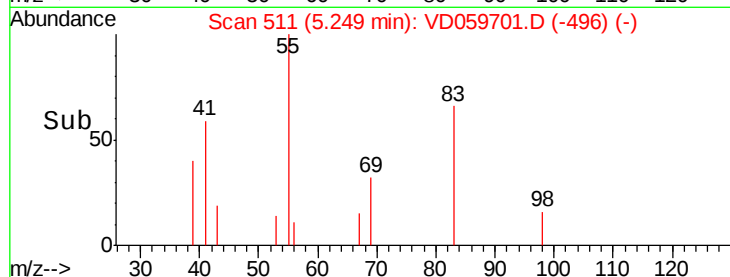
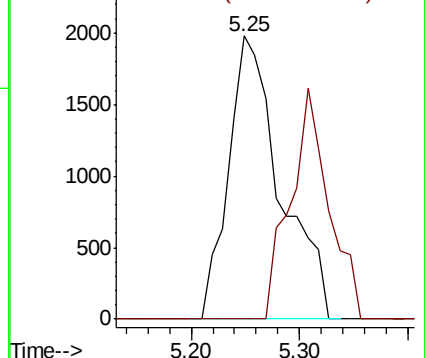
83 100

85 0.0 52.6 79.0#



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC



#31

Cyclohexane

Concen: 211.212 ug/l

RT: 5.57 min Scan# 544

Delta R.T. -0.00 min

Lab File: VD059701.D

Acq: 7 Aug 2018 13:26

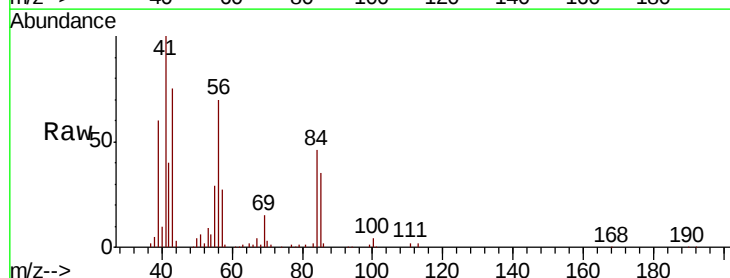
Tgt Ion: 56 Resp: 388439

Ion Ratio Lower Upper

56 100

69 21.7 24.7 37.1#

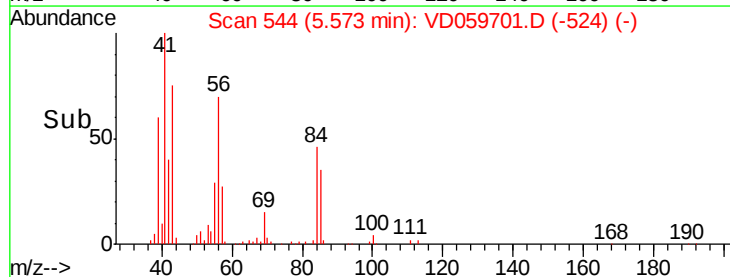
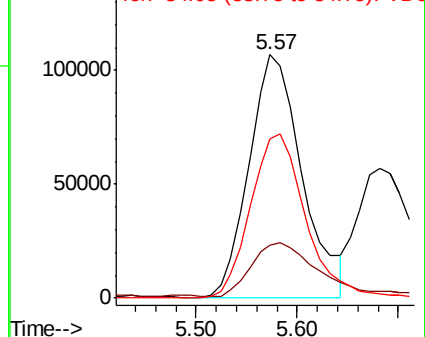
84 65.4 72.2 108.2#

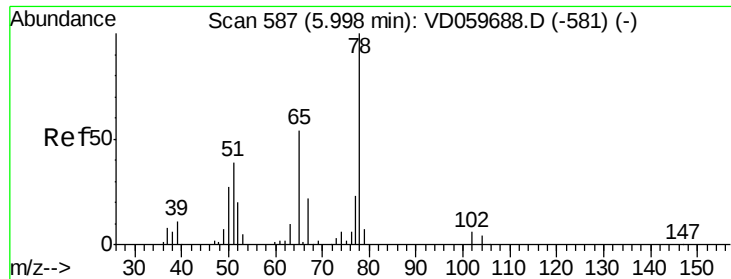


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC

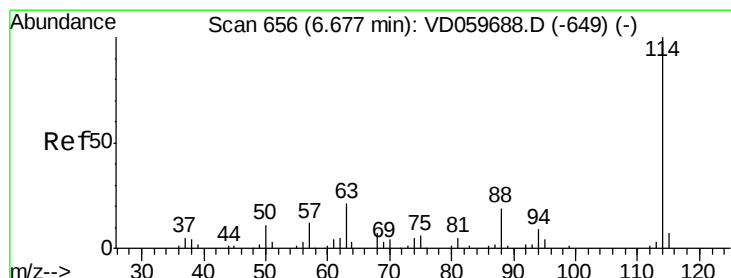
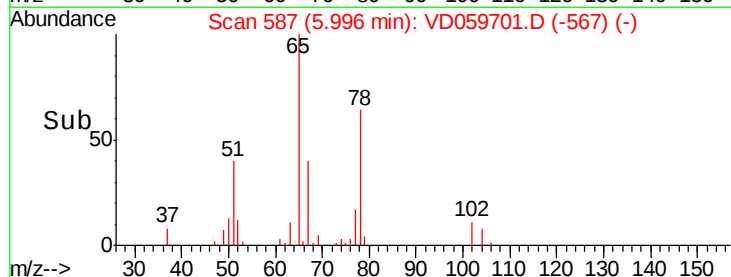
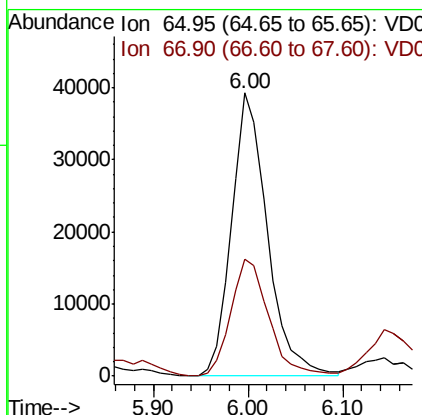
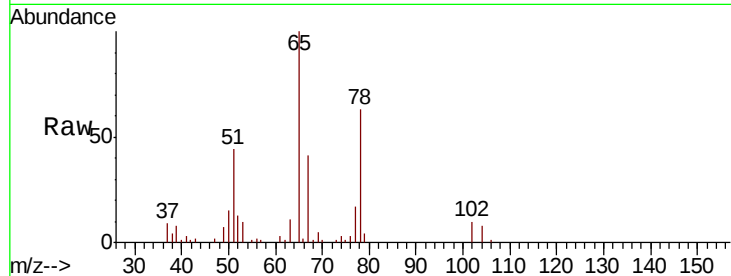




#33  
 1,2-Dichloroethane-d4  
 Concen: N.D. ug/l  
 RT: 6.00 min Scan# 587  
 Delta R.T. -0.00 min  
 Lab File: VD059701.D  
 Acq: 7 Aug 2018 13:26

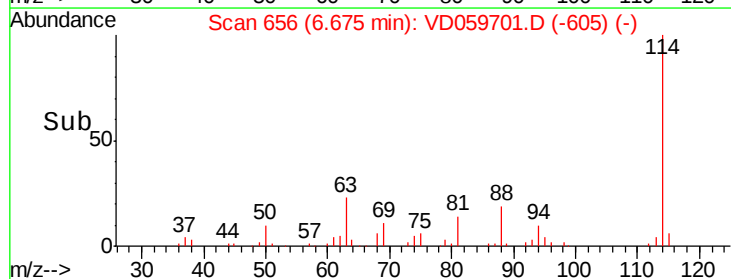
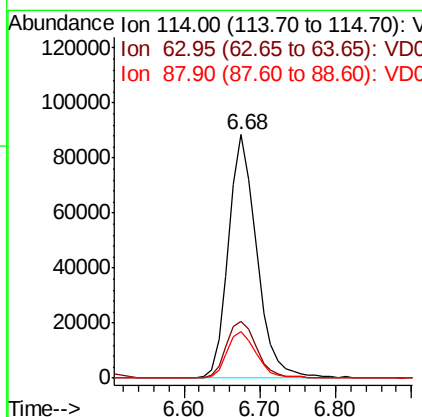
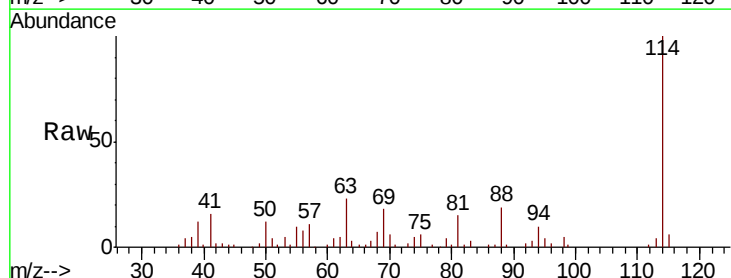
Instrument :  
 MSVOA\_D  
 ClientSampled :

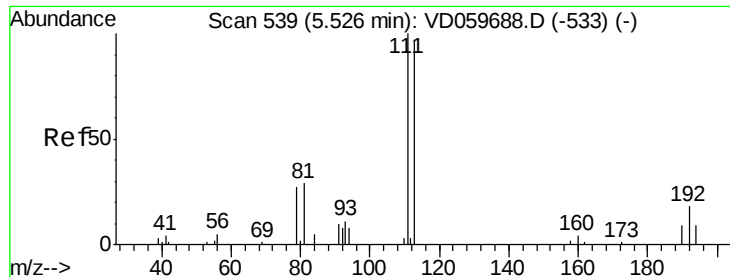
Tot Ion: 65 Resp: 103084  
 Ion Ratio Lower Upper  
 65 100  
 67 41.2 0.0 80.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.68 min Scan# 656  
 Delta R.T. -0.00 min  
 Lab File: VD059701.D  
 Acq: 7 Aug 2018 13:26

Tgt Ion:114 Resp: 227975  
 Ion Ratio Lower Upper  
 114 100  
 63 23.4 0.0 42.6  
 88 19.1 0.0 38.8

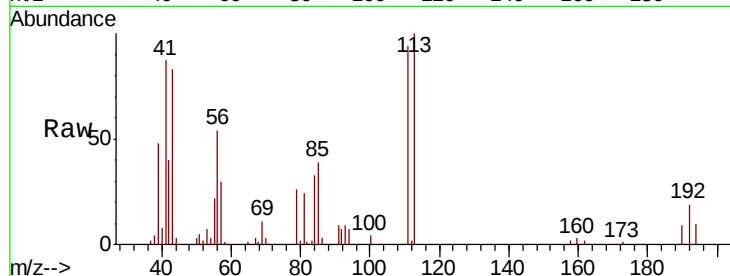




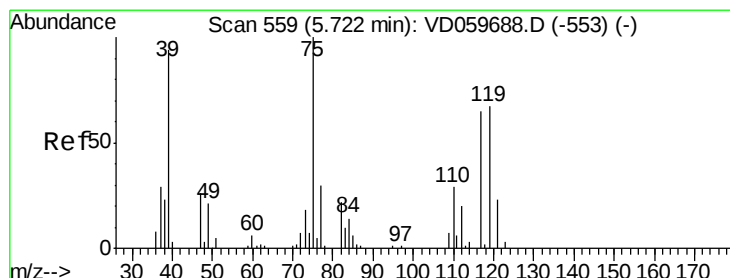
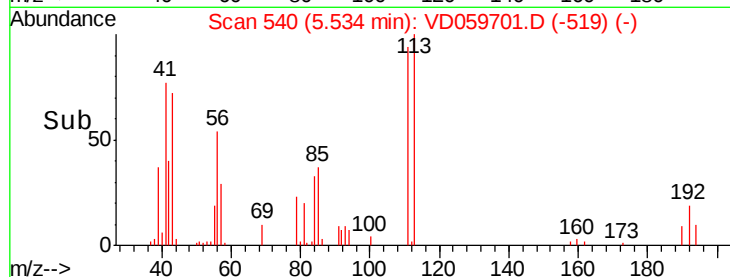
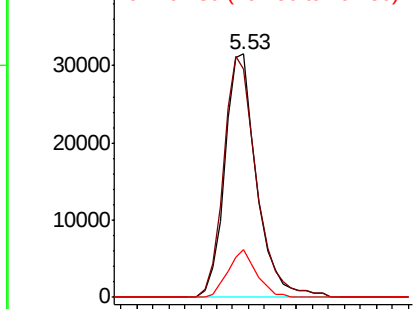
#35  
Dibromofluoromethane  
Concen: 50.000 ug/l  
RT: 5.53 min Scan# 540  
Delta R.T. 0.01 min  
Lab File: VD059701.D  
Acq: 7 Aug 2018 13:26

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion:113 Resp: 88055  
Ion Ratio Lower Upper  
113 100  
111 93.9 82.8 124.2  
192 19.4 14.6 22.0

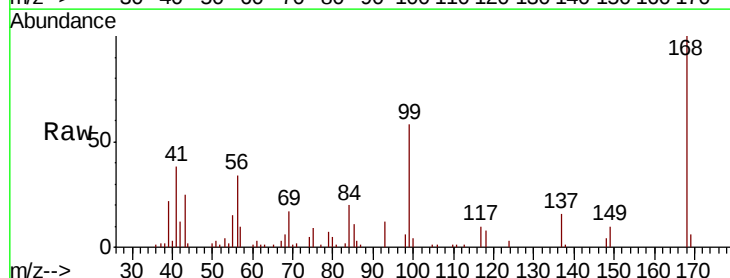


Abundance Ion 112.90 (112.60 to 113.60): V  
Ion 110.90 (110.60 to 111.60): V  
Ion 191.80 (191.50 to 192.50): V

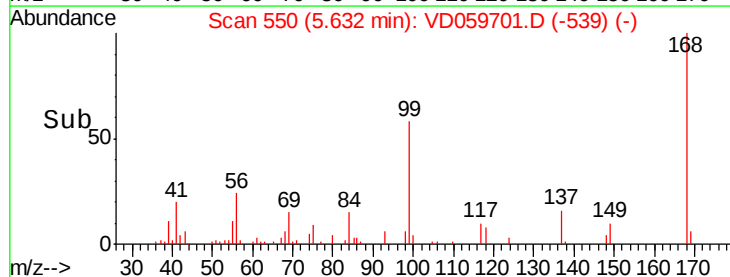
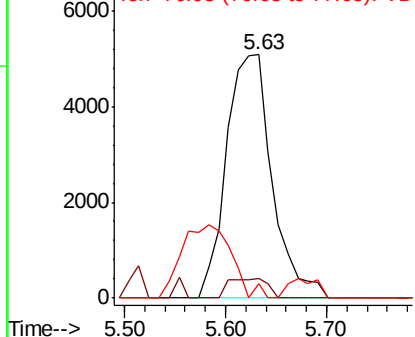


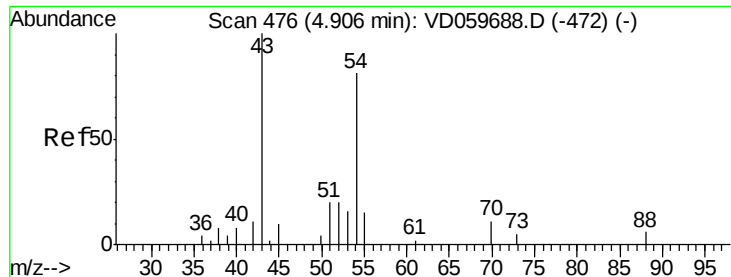
#36  
1,1-Dichloropropene  
Concen: 6.328 ug/l  
RT: 5.63 min Scan# 550  
Delta R.T. -0.09 min  
Lab File: VD059701.D  
Acq: 7 Aug 2018 13:26

Tgt Ion: 75 Resp: 16039  
Ion Ratio Lower Upper  
75 100  
110 8.1 14.1 42.3#  
77 5.9 23.9 35.9#



Abundance Ion 75.00 (74.70 to 75.70): VDC  
Ion 109.90 (109.60 to 110.60): V  
Ion 76.95 (76.65 to 77.65): VDC





#37

Ethyl Acetate

Concen: 8.246 ug/l

RT: 4.82 min Scan# 467

Delta R.T. -0.09 min

Lab File: VD059701.D

Acq: 7 Aug 2018 13:26

Instrument :

MSVOA\_D

ClientSampleId :

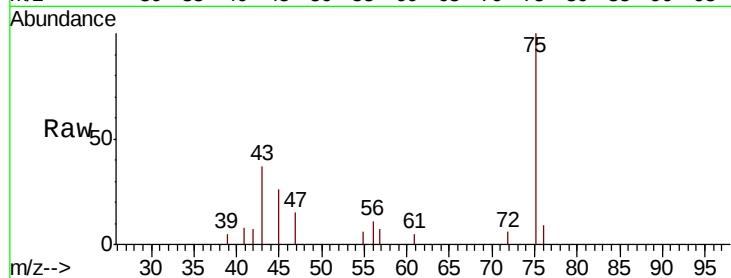
Tot Ion: 43 Resp: 10148

Ion Ratio Lower Upper

43 100

61 13.7 10.1 15.1

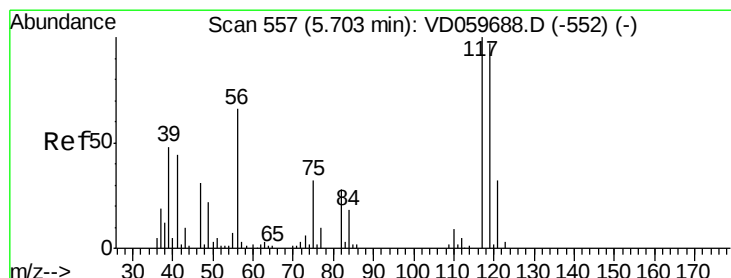
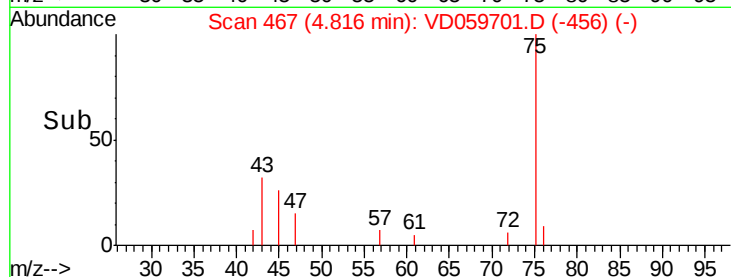
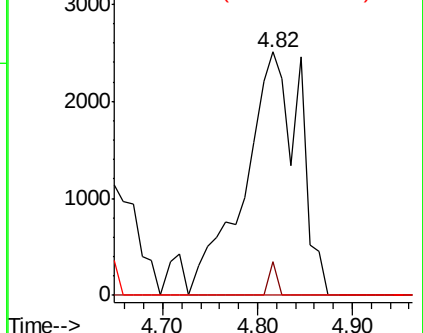
70 0.0 5.4 8.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC



#38

Carbon Tetrachloride

Concen: 5.208 ug/l

RT: 5.62 min Scan# 549

Delta R.T. -0.08 min

Lab File: VD059701.D

Acq: 7 Aug 2018 13:26

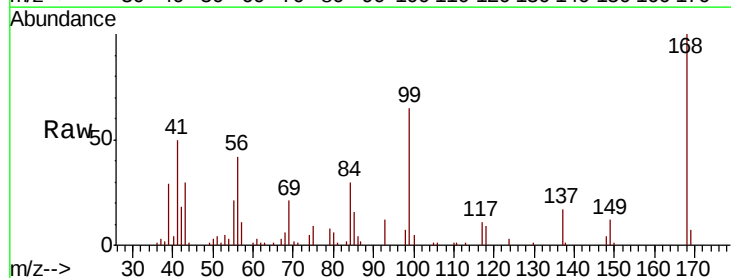
Tgt Ion: 117 Resp: 17663

Ion Ratio Lower Upper

117 100

119 0.0 75.3 112.9#

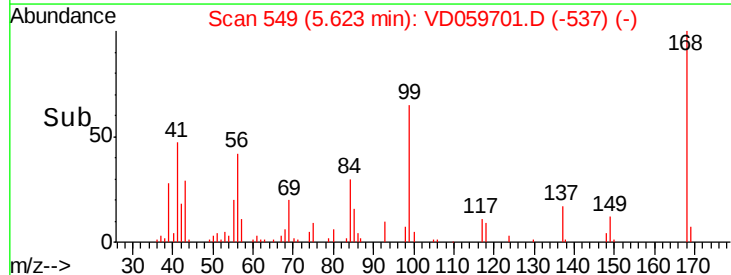
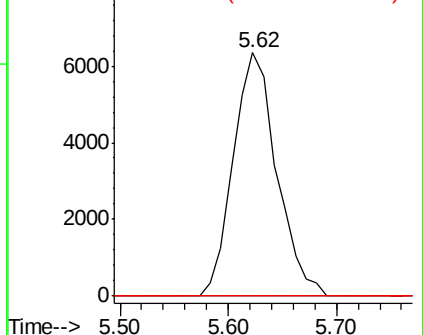
121 0.0 24.4 36.6#

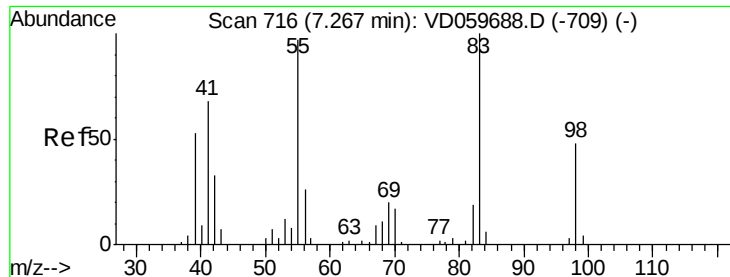


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V

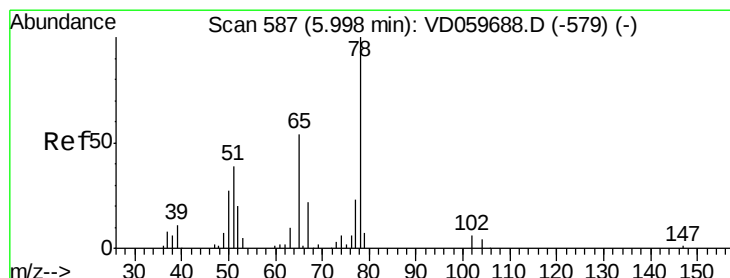
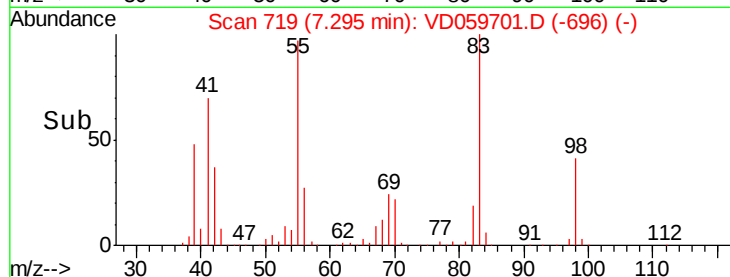
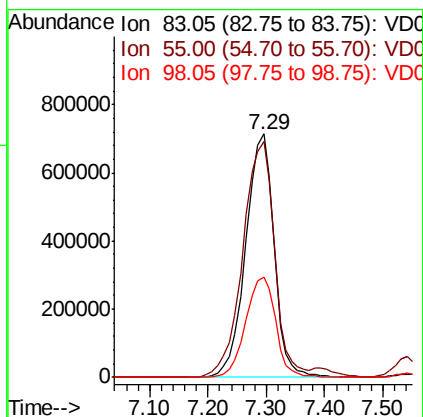
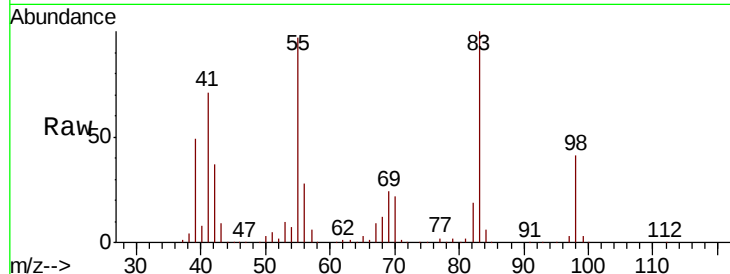




#39  
Methvlcvclohexane  
Concen: 1131.805 ug/l  
RT: 7.29 min Scan# 719  
Delta R.T. 0.03 min  
Lab File: VD059701.D  
Acq: 7 Aug 2018 13:26

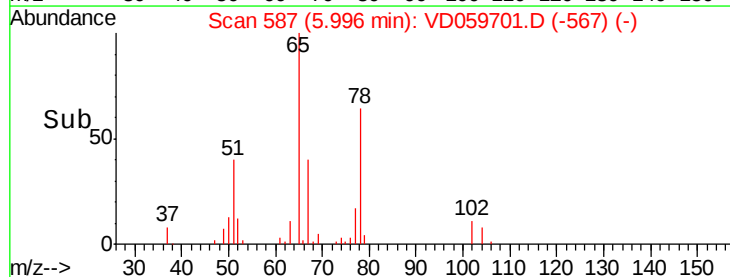
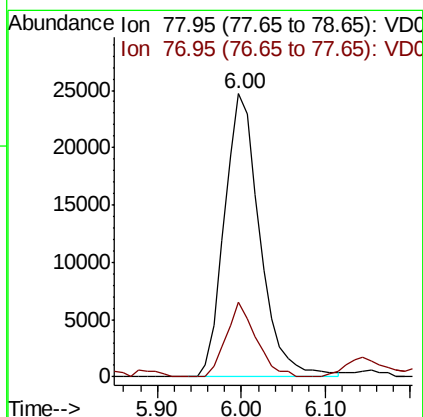
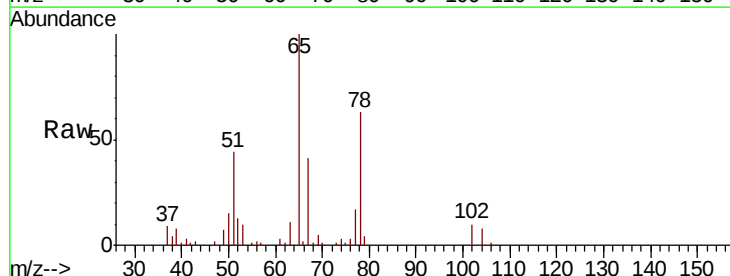
Instrument :  
MSVOA\_D  
ClientSampleId :

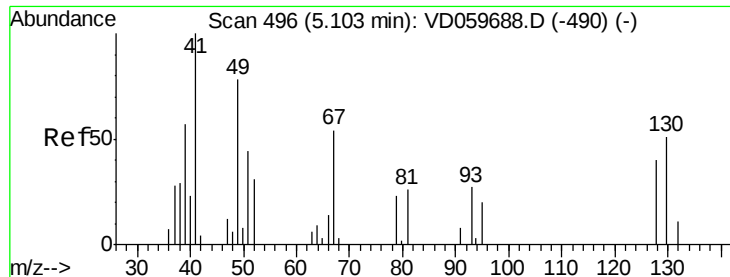
Tot Ion: 83 Resp: 2424288  
Ion Ratio Lower Upper  
83 100  
55 97.0 77.7 116.5  
98 40.9 38.7 58.1



#40  
Benzene  
Concen: 14.687 ug/l  
RT: 6.00 min Scan# 587  
Delta R.T. -0.00 min  
Lab File: VD059701.D  
Acq: 7 Aug 2018 13:26

Tgt Ion: 78 Resp: 72191  
Ion Ratio Lower Upper  
78 100  
77 26.4 18.4 27.6

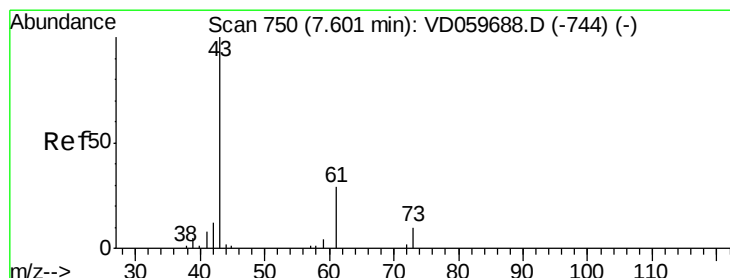
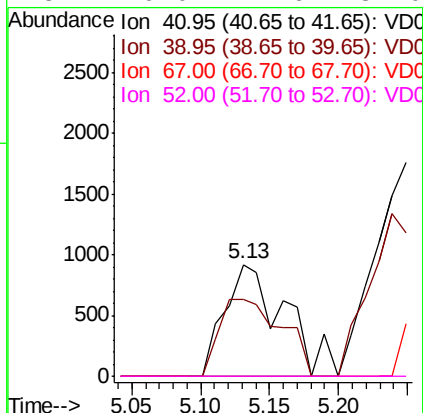
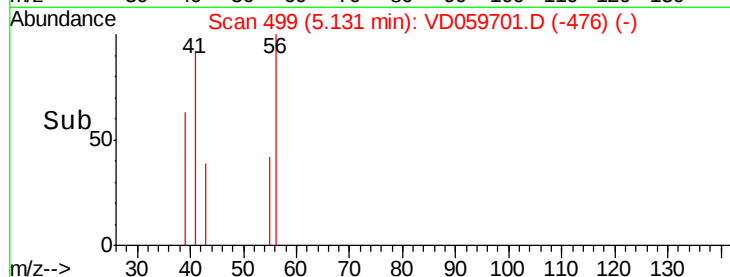
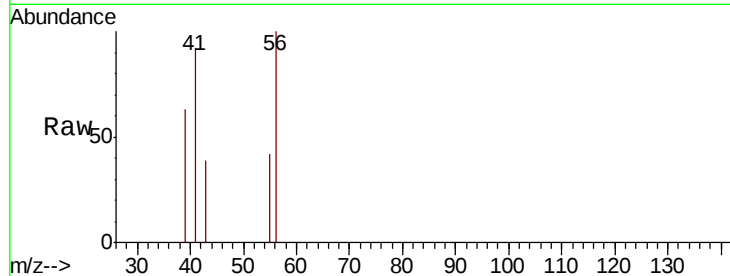




#41  
Methacrylonitrile  
Concen: 4.832 ug/l  
RT: 5.13 min Scan# 499  
Delta R.T. 0.03 min  
Lab File: VD059701.D  
Acq: 7 Aug 2018 13:26

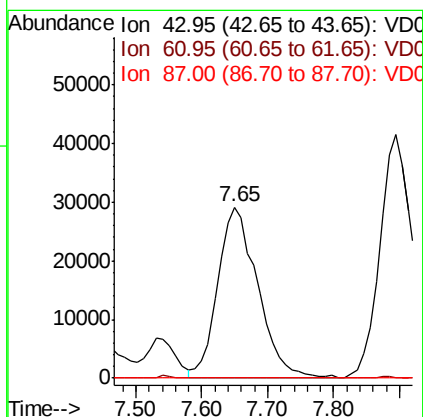
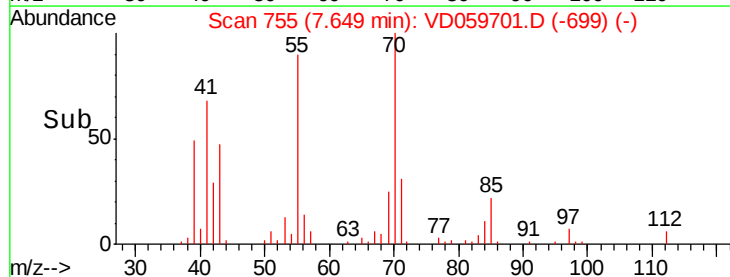
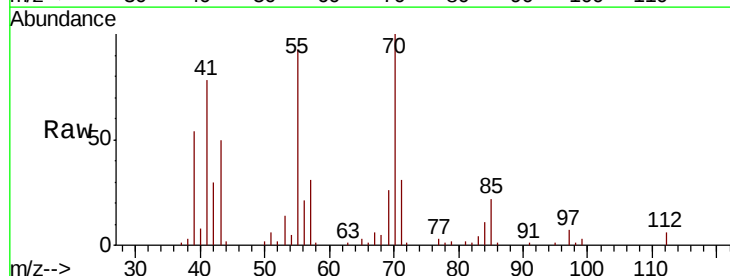
Instrument :  
MSVOA\_D  
ClientSampled :

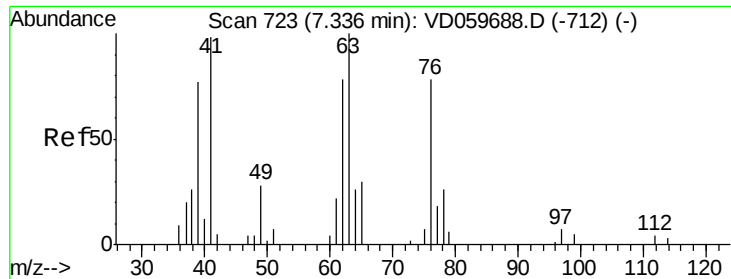
Tot Ion: 41 Resp: 2780  
Ion Ratio Lower Upper  
41 100  
39 68.1 45.8 68.8  
67 0.0 43.4 65.2#  
52 0.0 24.6 37.0#



#43  
Isopropyl Acetate  
Concen: 76.545 ug/l  
RT: 7.65 min Scan# 755  
Delta R.T. 0.05 min  
Lab File: VD059701.D  
Acq: 7 Aug 2018 13:26

Tgt Ion: 43 Resp: 123118  
Ion Ratio Lower Upper  
43 100  
61 0.0 22.9 34.3#  
87 0.0 0.0 0.0





#45

1,2-Dichloropropane

Concen: 29.935 ug/l

RT: 7.29 min Scan# 719

Delta R.T. -0.04 min

Lab File: VD059701.D

Acq: 7 Aug 2018 13:26

Instrument :

MSVOA\_D

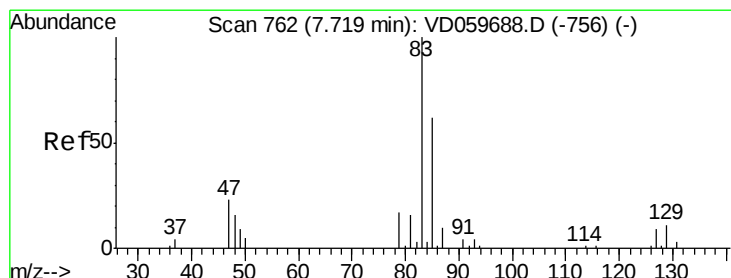
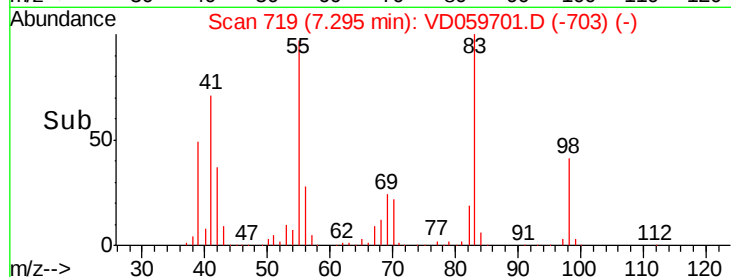
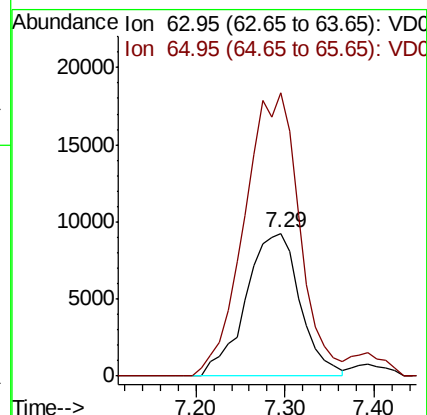
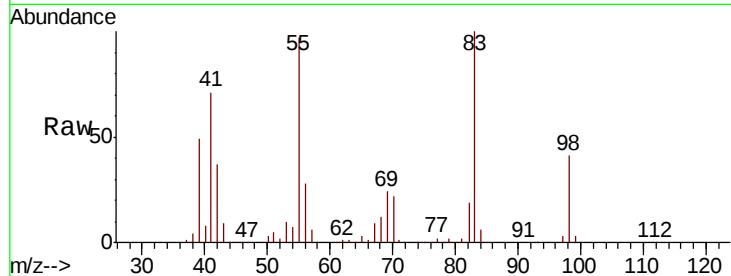
ClientSampleId :

Tot Ion: 63 Resp: 38854

Ion Ratio Lower Upper

63 100

65 198.1 24.2 36.4#



#47

Bromodichloromethane

Concen: 11.758 ug/l

RT: 7.68 min Scan# 758

Delta R.T. -0.04 min

Lab File: VD059701.D

Acq: 7 Aug 2018 13:26

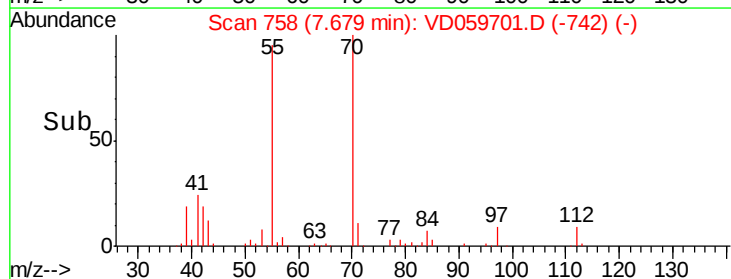
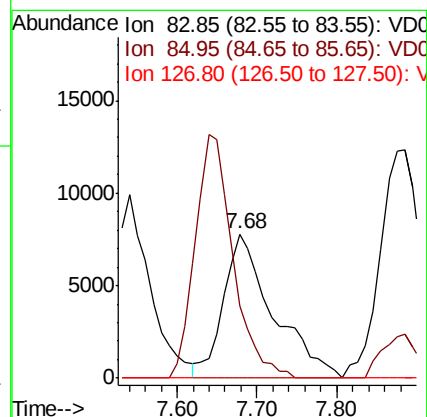
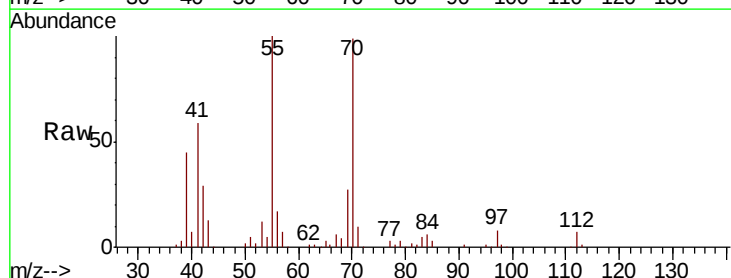
Tgt Ion: 83 Resp: 33684

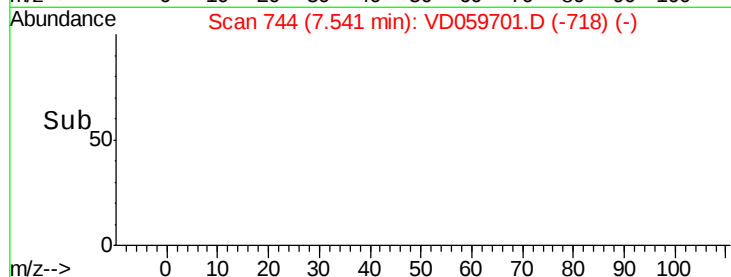
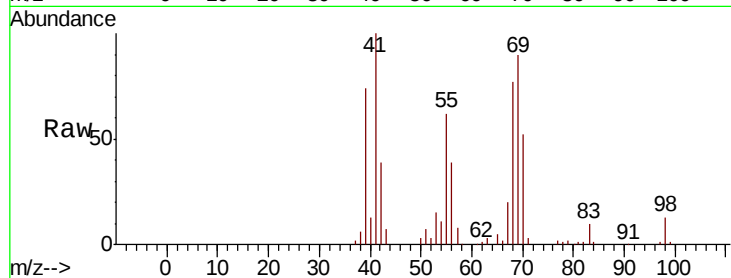
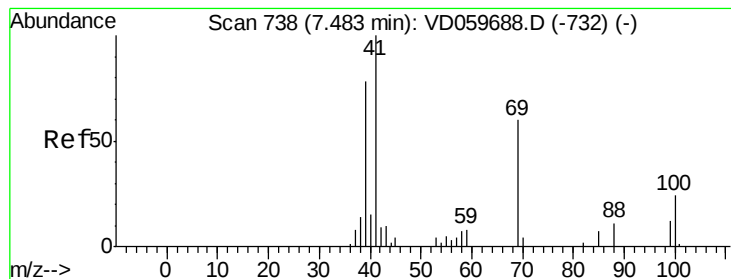
Ion Ratio Lower Upper

83 100

85 50.1 49.8 74.8

127 0.0 7.3 10.9#





#48

Methyl methacrylate

Concen: 230.056 ug/l

RT: 7.54 min Scan# 744

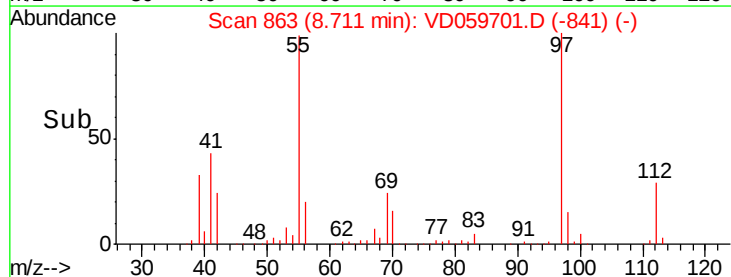
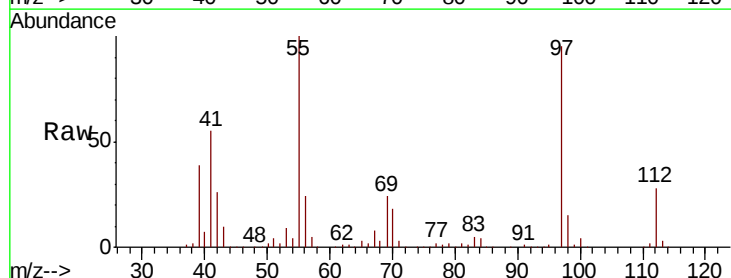
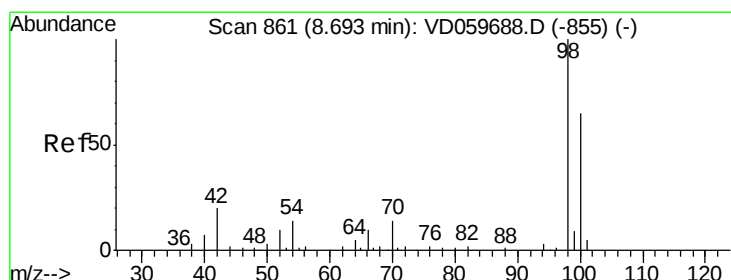
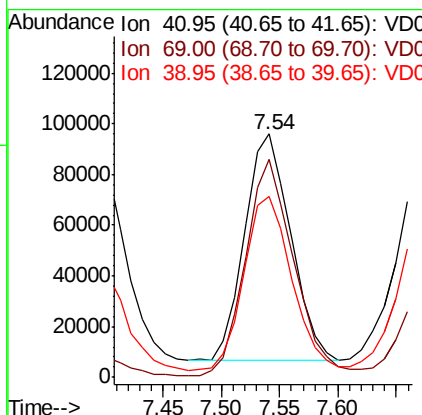
Delta R.T. 0.06 min

Lab File: VD059701.D

Acq: 7 Aug 2018 13:26

Tot Ion: 41 Resp: 244237

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 41  | 100   |       |       |
| 69  | 89.8  | 47.3  | 70.9# |
| 39  | 74.3  | 62.9  | 94.3  |



#50

Toluene-d8

Concen: N.D. ug/l

RT: 8.71 min Scan# 863

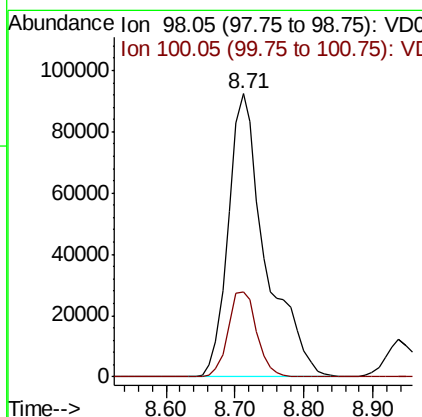
Delta R.T. 0.02 min

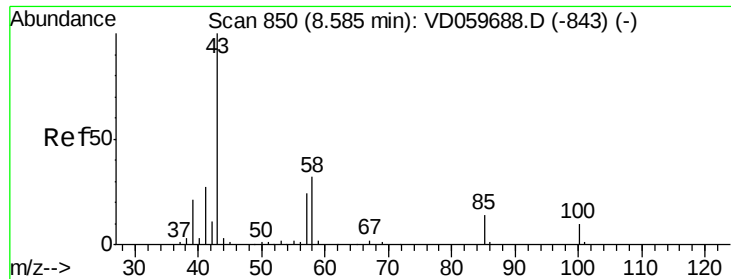
Lab File: VD059701.D

Acq: 7 Aug 2018 13:26

Tgt Ion: 98 Resp: 345452

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 98  | 100   |       |       |
| 100 | 30.2  | 52.5  | 78.7# |





#51

4-Methyl-2-Pentanone

Concen: 161.452 ug/l

RT: 8.71 min Scan# 863

Delta R.T. 0.13 min

Lab File: VD059701.D

Acq: 7 Aug 2018 13:26

Instrument :

MSVOA\_D

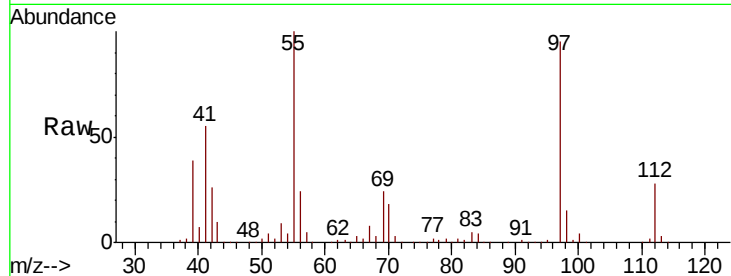
ClientSampleId :

Tot Ion: 43 Resp: 189385

Ion Ratio Lower Upper

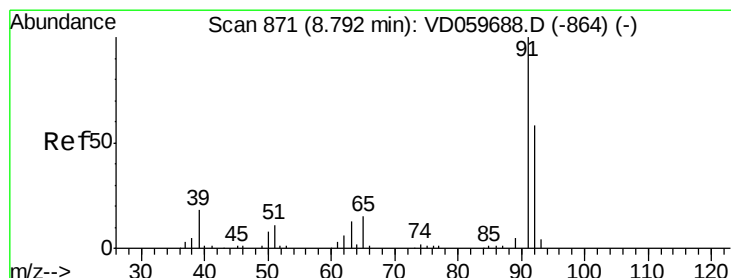
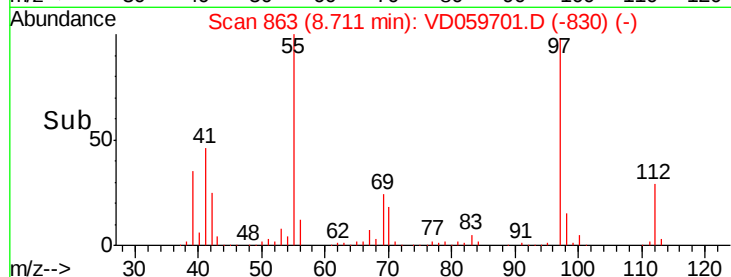
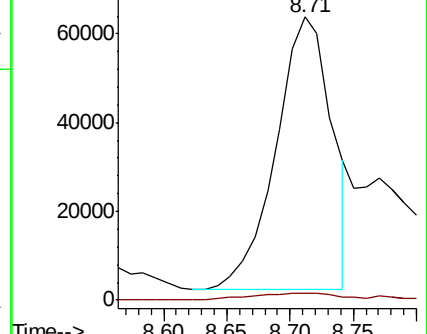
43 100

58 2.7 25.7 38.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 530.220 ug/l

RT: 8.81 min Scan# 873

Delta R.T. 0.02 min

Lab File: VD059701.D

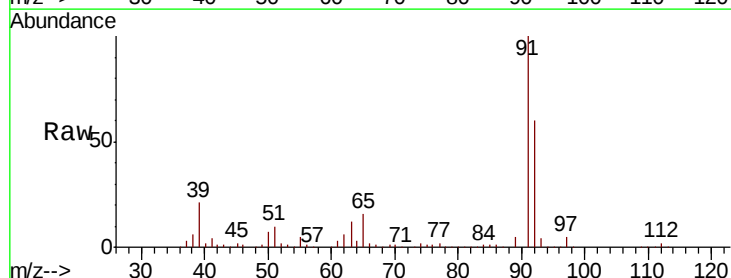
Acq: 7 Aug 2018 13:26

Tgt Ion: 92 Resp: 1662514

Ion Ratio Lower Upper

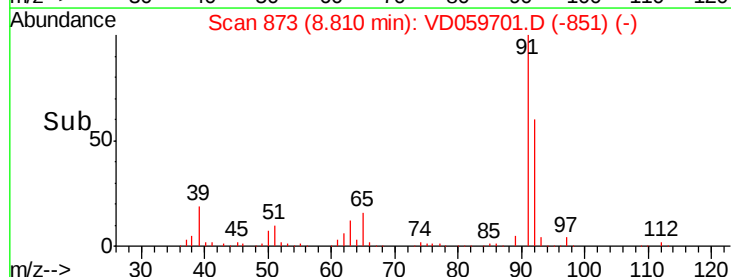
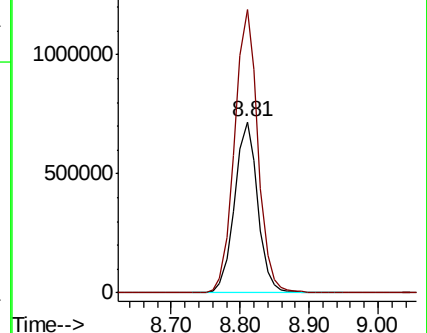
92 100

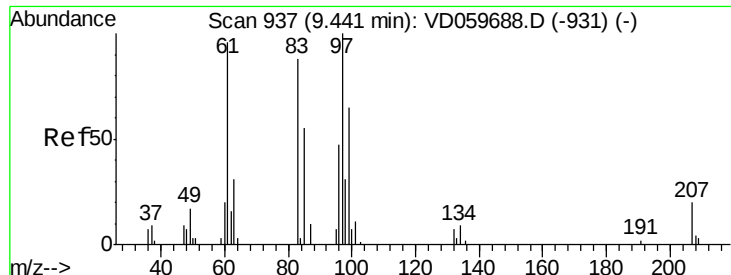
91 165.7 137.0 205.6



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC





#55

1,1,2-Trichloroethane

Concen: 452.435 ug/l

RT: 9.38 min Scan# 931

Delta R.T. -0.06 min

Lab File: VD059701.D

Acq: 7 Aug 2018 13:26

Instrument :

MSVOA\_D

ClientSampleId :

Tot Ion: 97 Resp: 544884

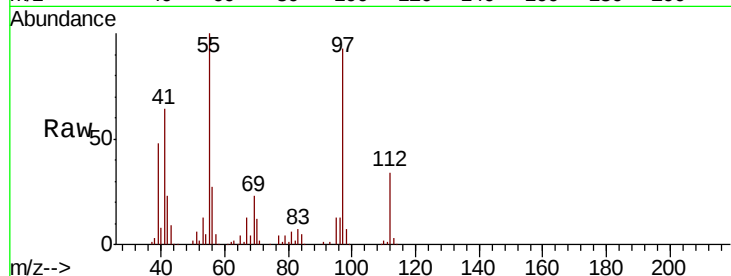
Ion Ratio Lower Upper

97 100

83 7.4 70.8 106.2#

85 0.5 44.1 66.1#

99 0.2 52.2 78.4#

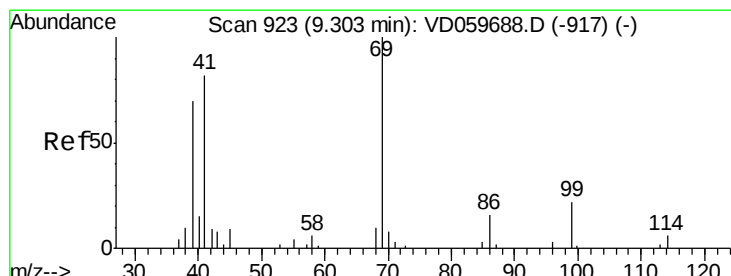
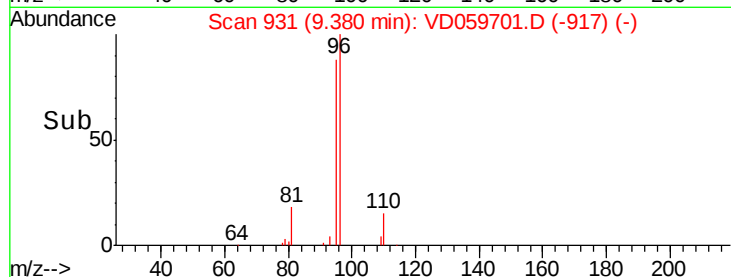
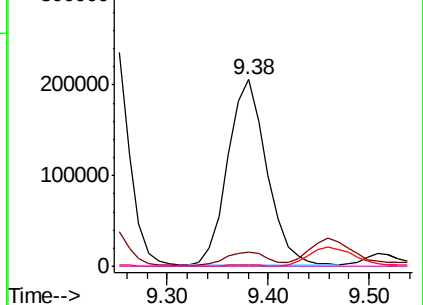


Abundance Ion 96.85 (96.55 to 97.55): VDC

Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

Ion 98.85 (98.55 to 99.55): VDC



#56

Ethyl methacrylate

Concen: 108.074 ug/l

RT: 9.38 min Scan# 931

Delta R.T. 0.08 min

Lab File: VD059701.D

Acq: 7 Aug 2018 13:26

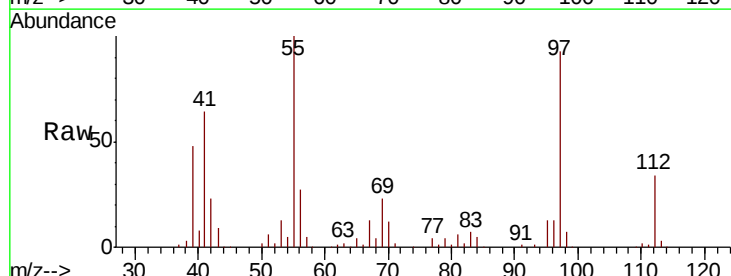
Tgt Ion: 69 Resp: 143609

Ion Ratio Lower Upper

69 100

41 272.8 65.7 98.5#

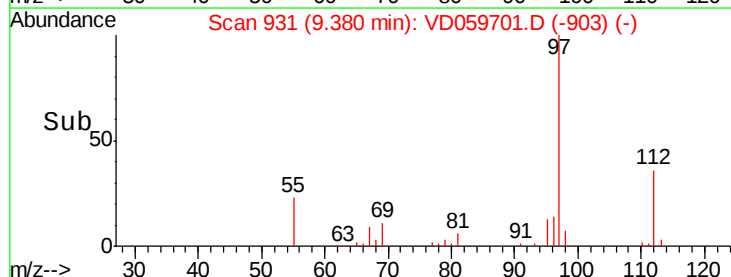
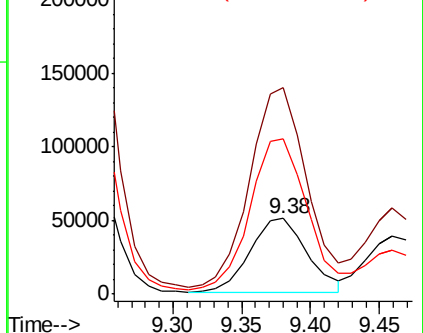
39 204.1 55.8 83.8#

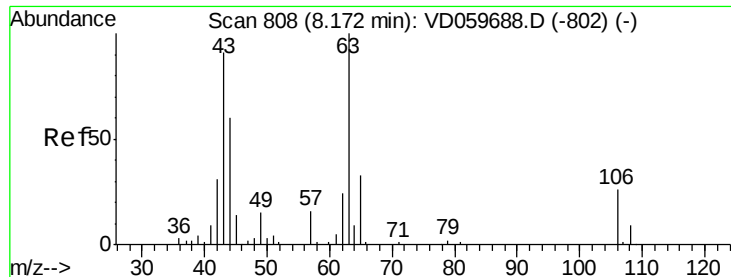


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC





#58

2-Chloroethyl Vinyl ether

Concen: 6.213 ug/l

RT: 8.17 min Scan# 808

Delta R.T. -0.00 min

Lab File: VD059701.D

Acq: 7 Aug 2018 13:26

Instrument :

MSVOA\_D

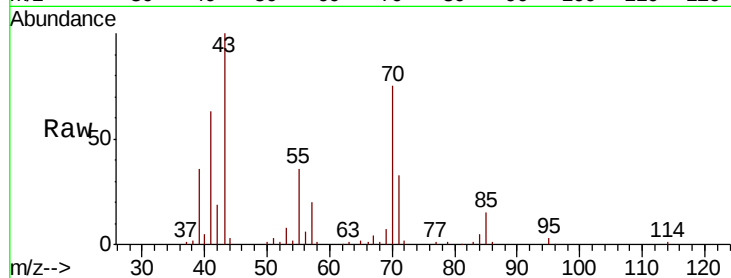
ClientSampled :

Tot Ion: 63 Resp: 3933

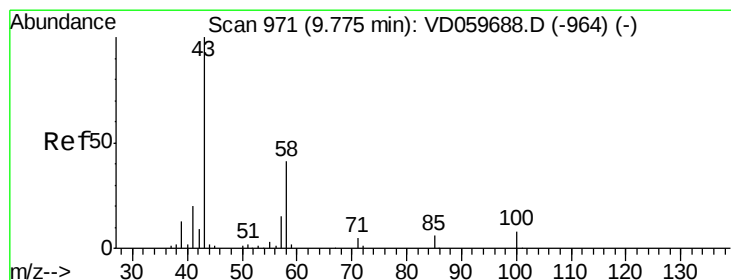
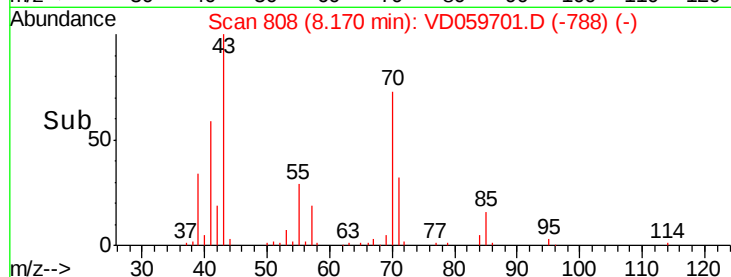
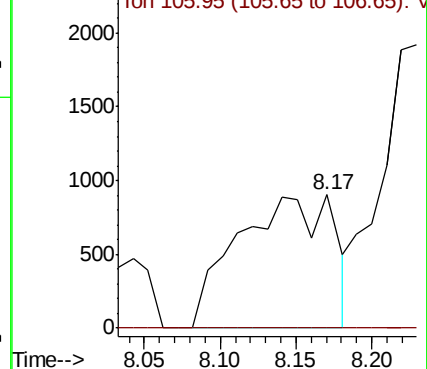
Ion Ratio Lower Upper

63 100

106 0.0 20.7 31.1#



Abundance Ion 62.95 (62.65 to 63.65): VDC



#59

2-Hexanone

Concen: 2594.888 ug/l

RT: 9.77 min Scan# 971

Delta R.T. -0.00 min

Lab File: VD059701.D

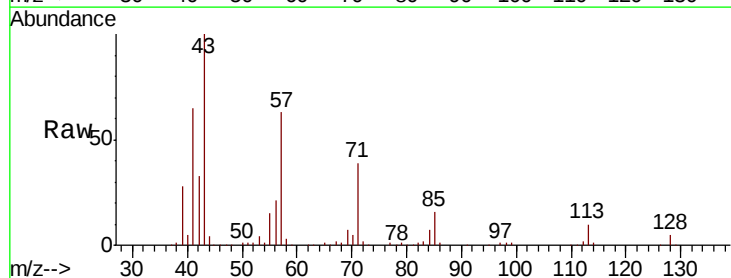
Acq: 7 Aug 2018 13:26

Tgt Ion: 43 Resp: 2285711

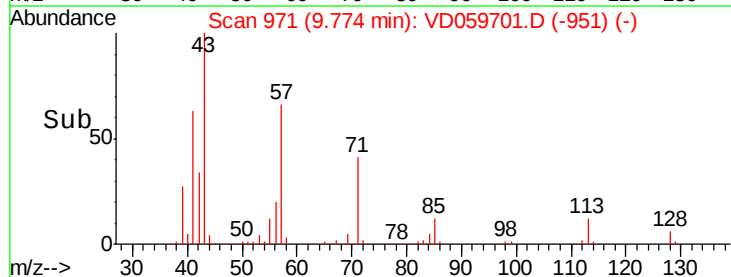
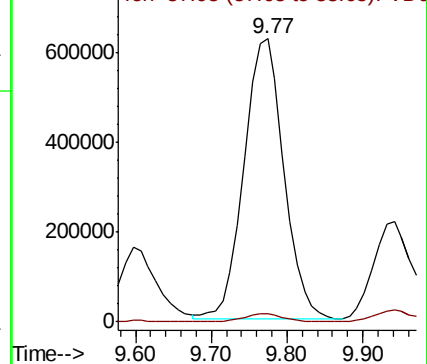
Ion Ratio Lower Upper

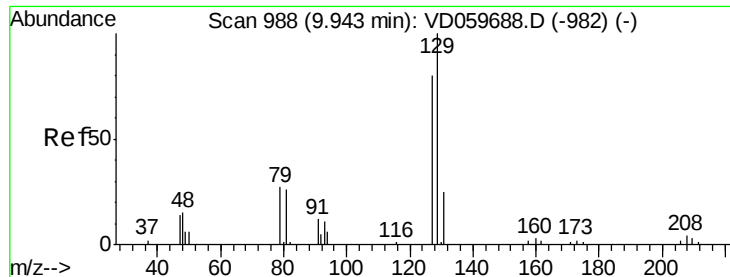
43 100

58 2.9 20.4 61.3#



Abundance Ion 42.95 (42.65 to 43.65): VDC





#60

Dibromochloromethane

Concen: 1.321 ug/l

RT: 9.94 min Scan# 988

Delta R.T. -0.00 min

Lab File: VD059701.D

Acq: 7 Aug 2018 13:26

Instrument :

MSVOA\_D

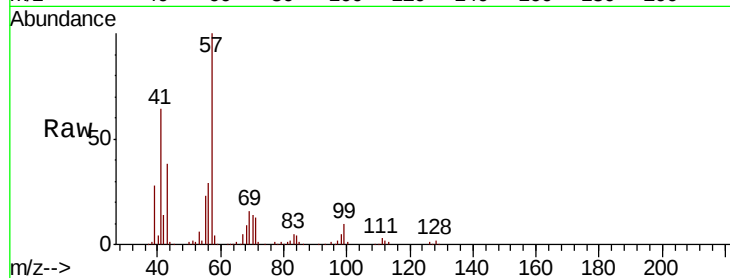
ClientSampleId :

Tot Ion:129 Resp: 2528

Ion Ratio Lower Upper

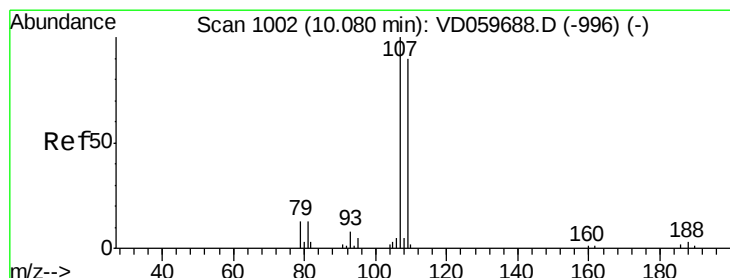
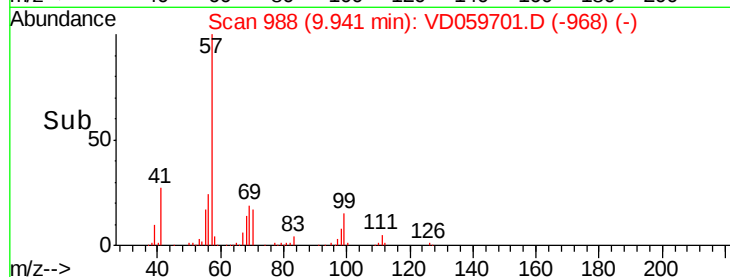
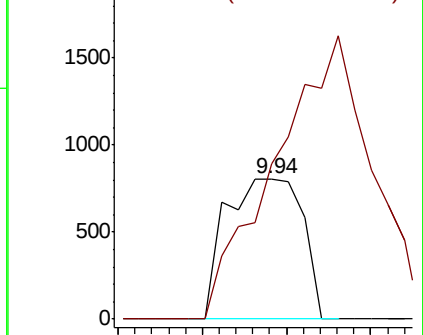
129 100

127 110.7 40.0 119.9



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#61

1,2-Dibromoethane

Concen: 1.281 ug/l

RT: 10.16 min Scan# 1010

Delta R.T. 0.08 min

Lab File: VD059701.D

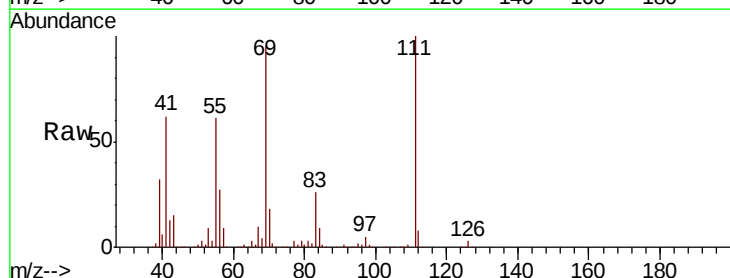
Acq: 7 Aug 2018 13:26

Tgt Ion:107 Resp: 1774

Ion Ratio Lower Upper

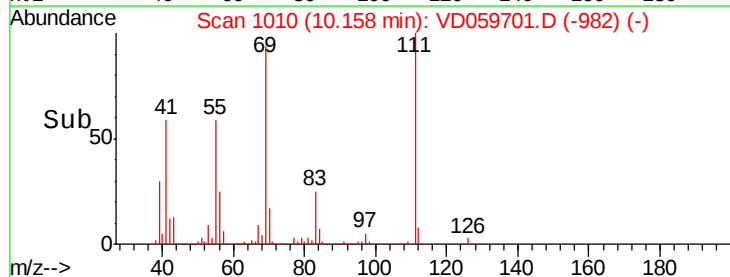
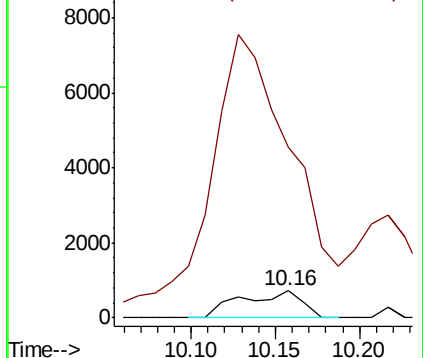
107 100

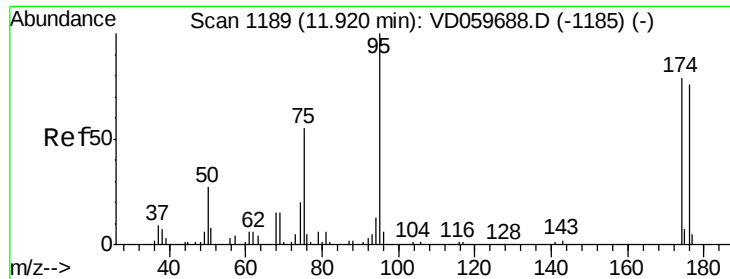
109 637.7 72.0 108.0#



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V





#62

4-Bromofluorobenzene

Concen: 1.281 ug/l

RT: 11.92 min Scan# 1189

Delta R.T. -0.00 min

Lab File: VD059701.D

Acq: 7 Aug 2018 13:26

Instrument :

MSVOA\_D

ClientSampleId :

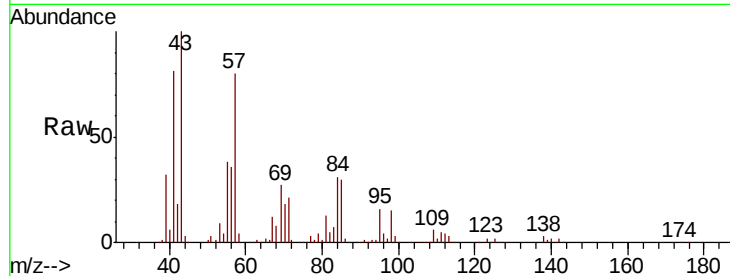
Tot Ion: 95 Resp: 144421

Ion Ratio Lower Upper

95 100

174 0.8 0.0 158.4

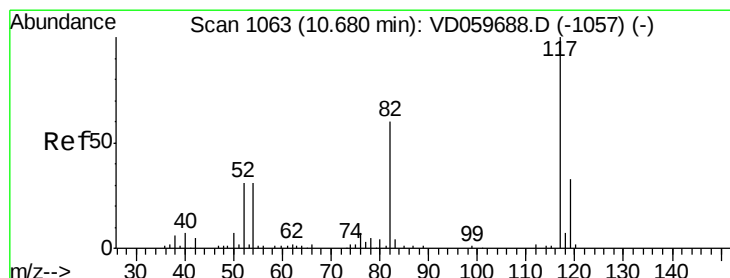
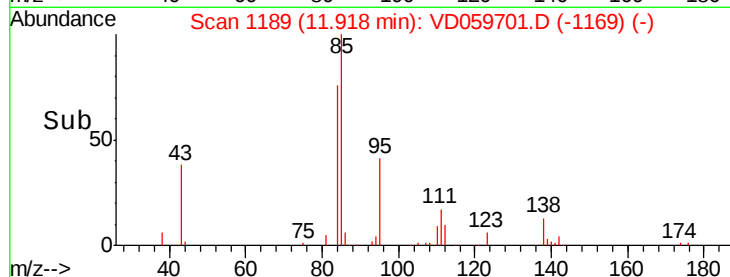
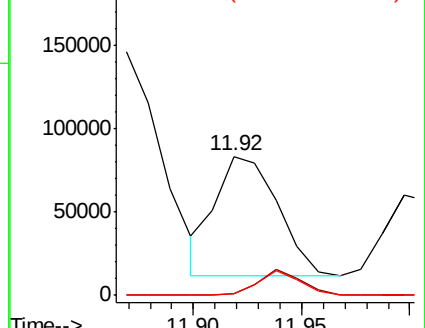
176 0.9 0.0 153.0



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.70 min Scan# 1065

Delta R.T. 0.02 min

Lab File: VD059701.D

Acq: 7 Aug 2018 13:26

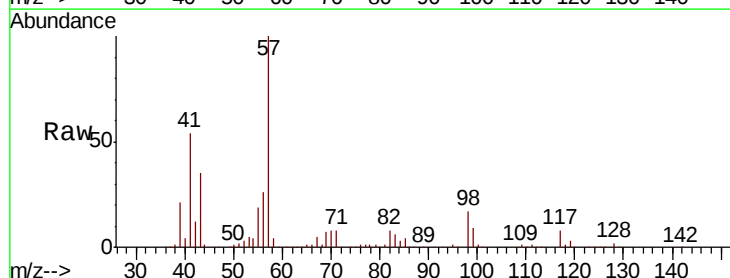
Tgt Ion: 117 Resp: 104033

Ion Ratio Lower Upper

117 100

82 99.0 47.7 71.5#

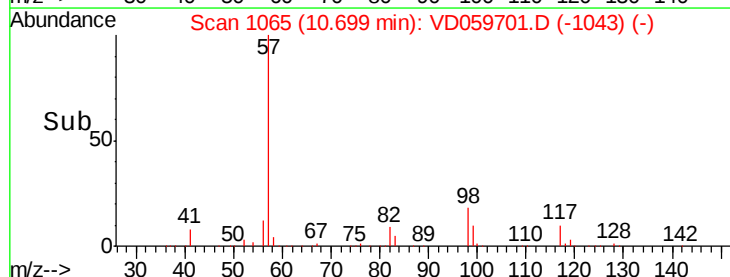
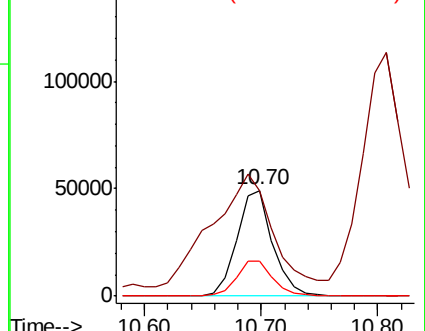
119 33.5 26.6 40.0

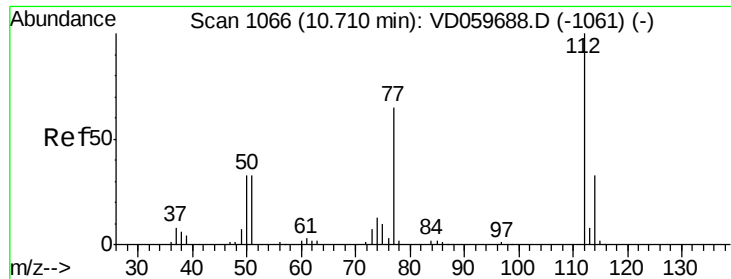


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

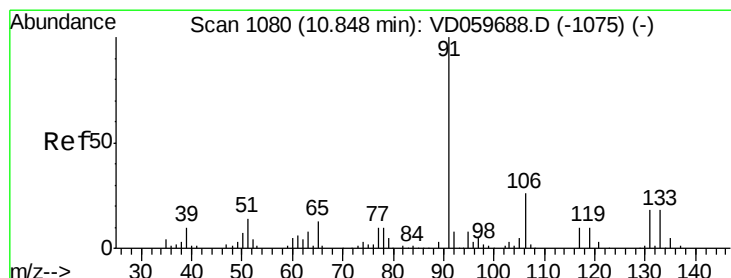
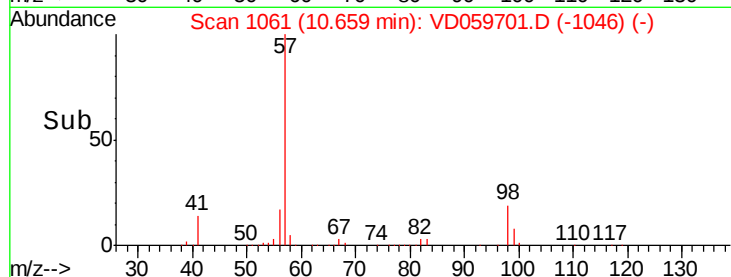
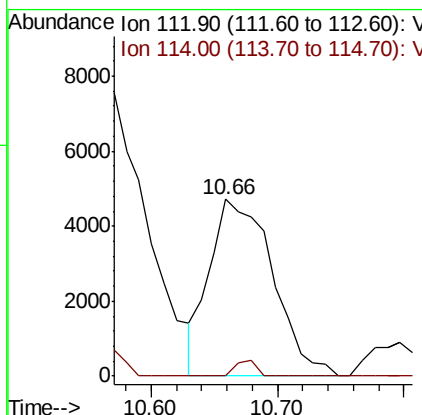
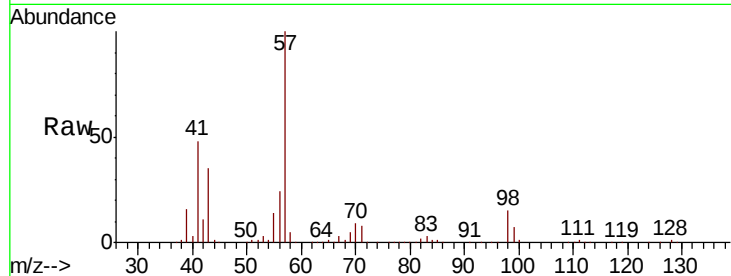




#65  
Chlorobenzene  
Concen: 7.474 ug/l  
RT: 10.66 min Scan# 1061  
Delta R.T. -0.05 min  
Lab File: VD059701.D  
Acq: 7 Aug 2018 13:26

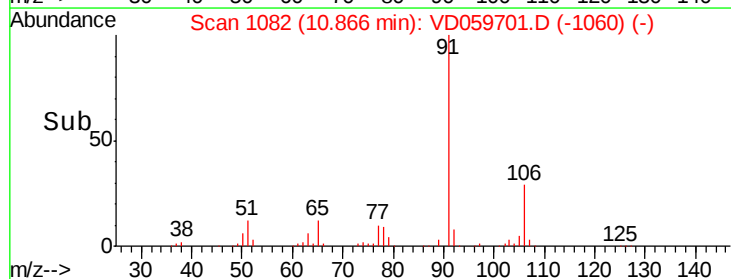
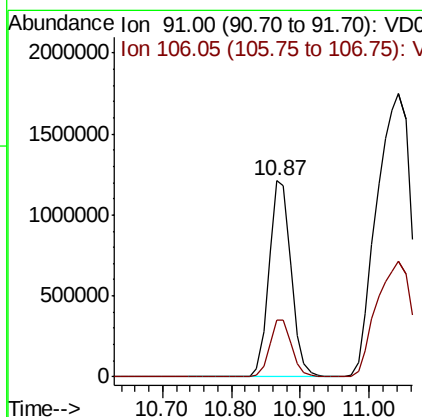
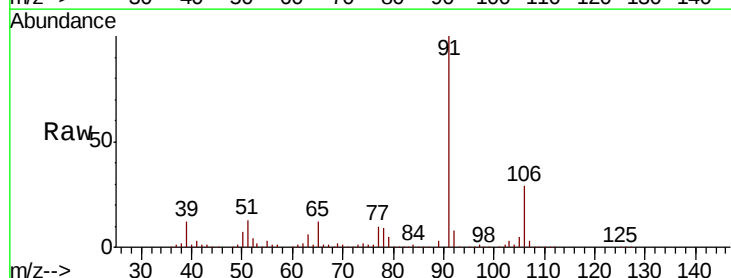
Instrument :  
MSVOA\_D  
ClientSampled :

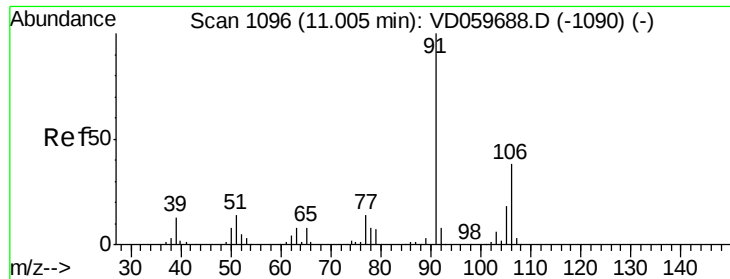
Tot Ion:112 Resp: 16386  
Ion Ratio Lower Upper  
112 100  
114 0.0 26.1 39.1#



#67  
Ethyl Benzene  
Concen: 687.353 ug/l  
RT: 10.87 min Scan# 1082  
Delta R.T. 0.02 min  
Lab File: VD059701.D  
Acq: 7 Aug 2018 13:26

Tgt Ion: 91 Resp: 2713804  
Ion Ratio Lower Upper  
91 100  
106 28.7 20.9 31.3

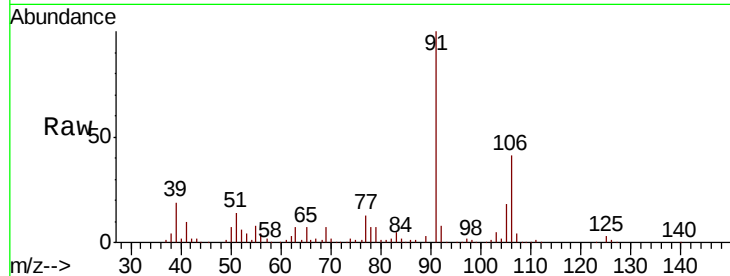




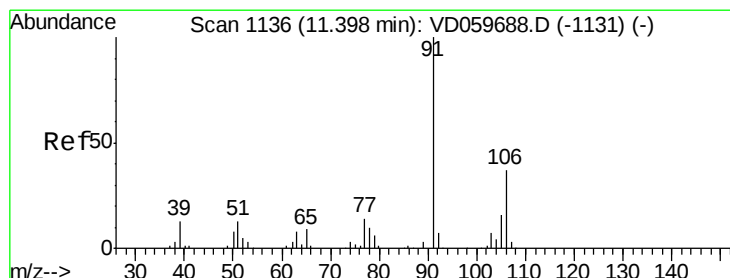
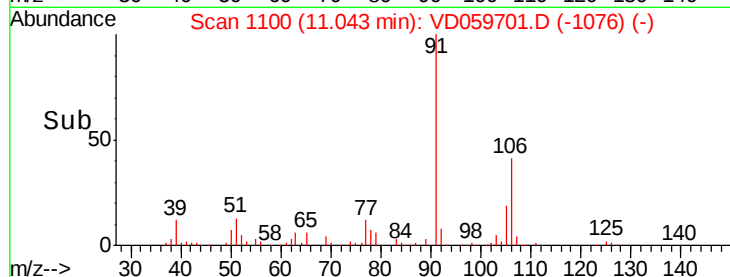
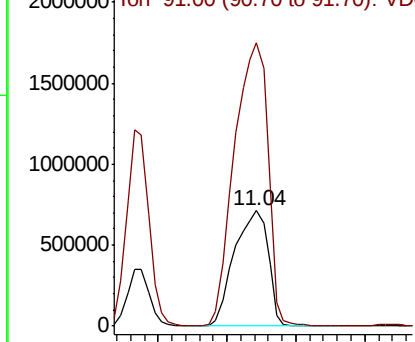
#68  
m/p-Xylenes  
Concen: 1921.686 ug/l  
RT: 11.04 min Scan# 1100  
Delta R.T. 0.04 min  
Lab File: VD059701.D  
Acq: 7 Aug 2018 13:26

Instrument :  
MSVOA\_D  
ClientSampled :

Tot Ion:106 Resp: 2427139  
Ion Ratio Lower Upper  
106 100  
91 245.8 209.7 314.5

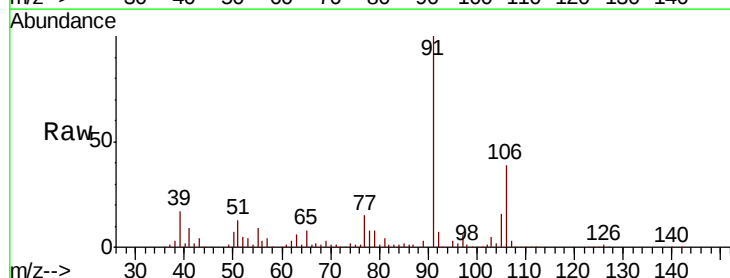


Abundance Ion 106.05 (105.75 to 106.75): V  
Ion 91.00 (90.70 to 91.70): VDC

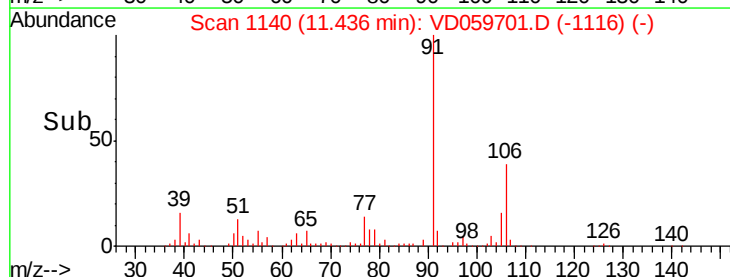
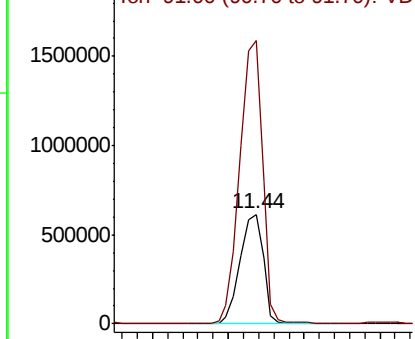


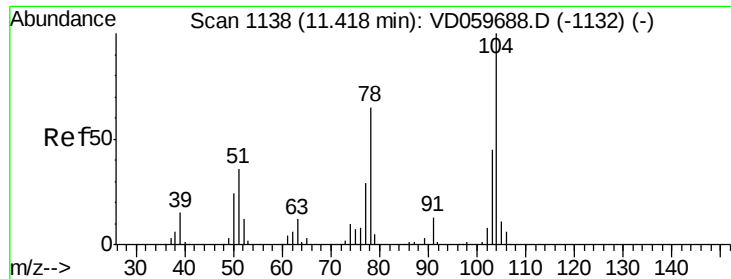
#69  
o-Xylene  
Concen: 1065.049 ug/l  
RT: 11.44 min Scan# 1140  
Delta R.T. 0.04 min  
Lab File: VD059701.D  
Acq: 7 Aug 2018 13:26

Tgt Ion:106 Resp: 1307738  
Ion Ratio Lower Upper  
106 100  
91 258.5 135.2 405.6



Abundance Ion 106.05 (105.75 to 106.75): V  
Ion 91.00 (90.70 to 91.70): VDC

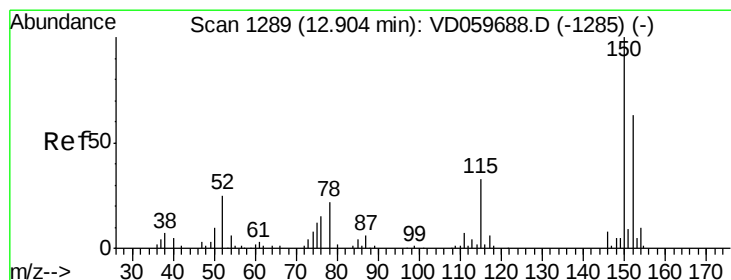
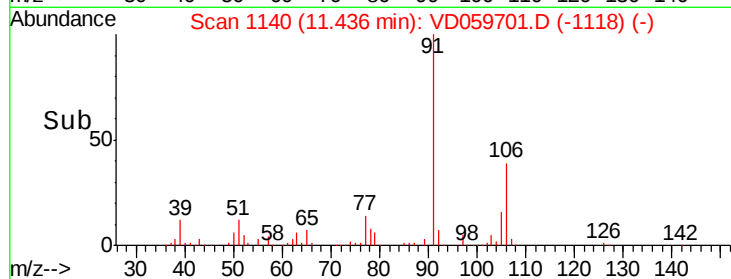
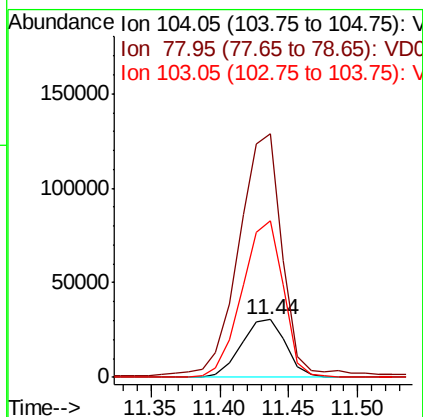
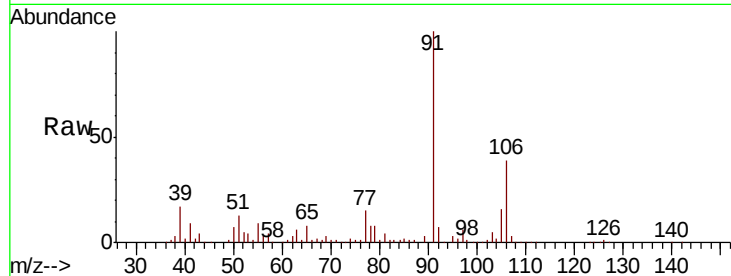




#70  
Stvrene  
Concen: 33.248 ug/l  
RT: 11.44 min Scan# 1140  
Delta R.T. 0.02 min  
Lab File: VD059701.D  
Acq: 7 Aug 2018 13:26

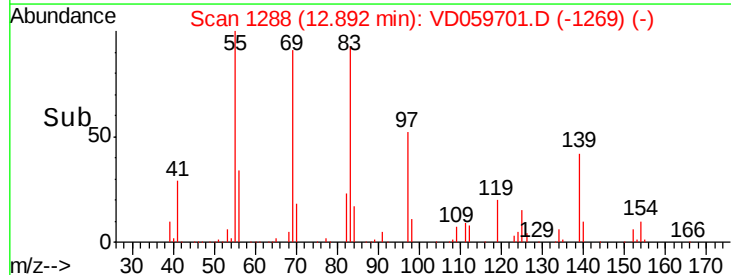
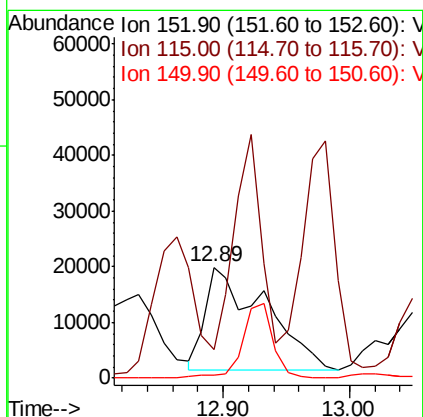
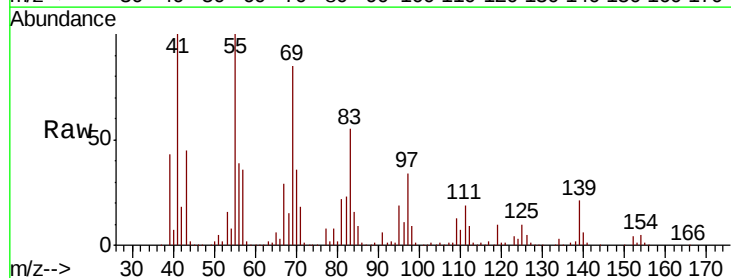
Instrument :  
MSVOA\_D  
ClientSampleId :

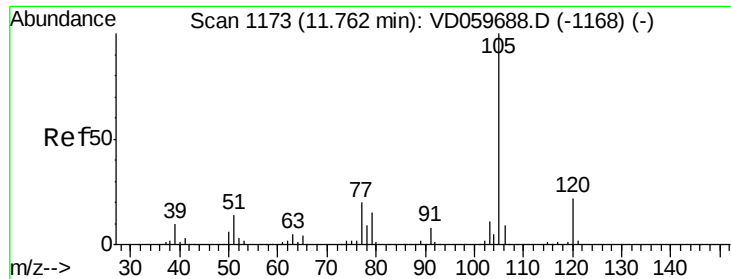
Tot Ion:104 Resp: 68526  
Ion Ratio Lower Upper  
104 100  
78 421.9 51.9 77.9#  
103 271.2 36.2 54.4#



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.89 min Scan# 1288  
Delta R.T. -0.01 min  
Lab File: VD059701.D  
Acq: 7 Aug 2018 13:26

Tgt Ion:152 Resp: 60752  
Ion Ratio Lower Upper  
152 100  
115 26.2 28.8 86.4#  
150 3.0 0.0 318.0





#73

Isopropylbenzene

Concen: 337.422 ug/l

RT: 11.79 min Scan# 1176

Delta R.T. 0.03 min

Lab File: VD059701.D

Acq: 7 Aug 2018 13:26

Instrument :

MSVOA\_D

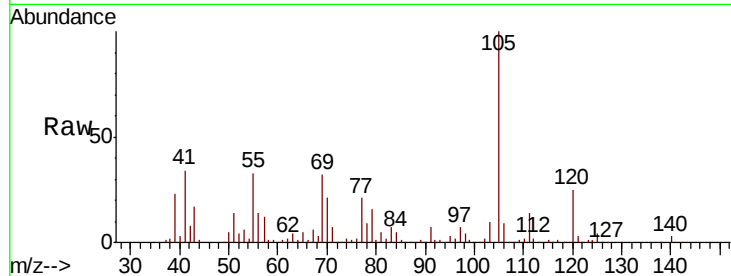
ClientSampleId :

Tot Ion:105 Resp: 1377633

Ion Ratio Lower Upper

105 100

120 25.3 10.8 32.3



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

11.79

800000

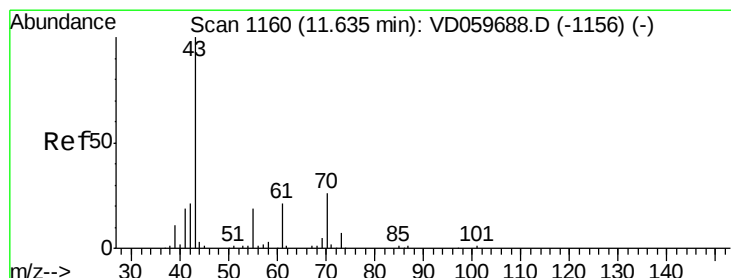
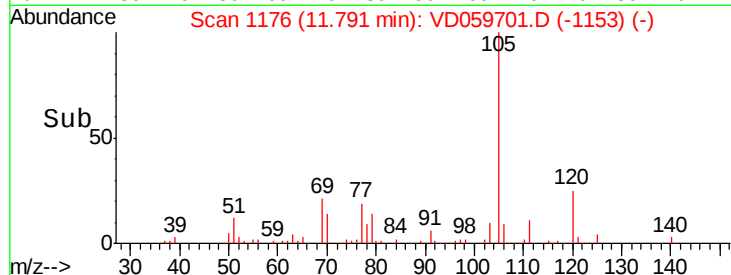
600000

400000

200000

0

Time-->



#74

N-ethyl acetate

Concen: 1048.063 ug/l

RT: 11.63 min Scan# 1160

Delta R.T. -0.00 min

Lab File: VD059701.D

Acq: 7 Aug 2018 13:26

Tgt Ion: 43 Resp: 1368972

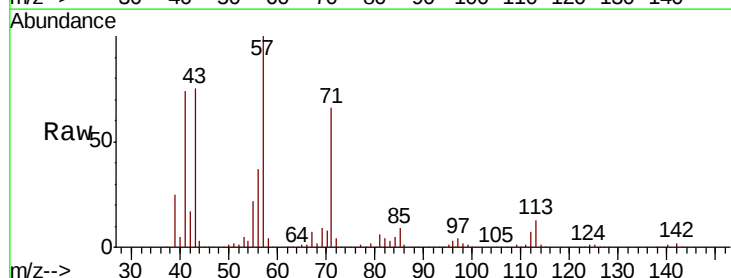
Ion Ratio Lower Upper

43 100

71 11.2 21.0 31.6#

55 29.4 15.4 23.2#

61 0.0 16.8 25.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC

1200000

1000000

800000

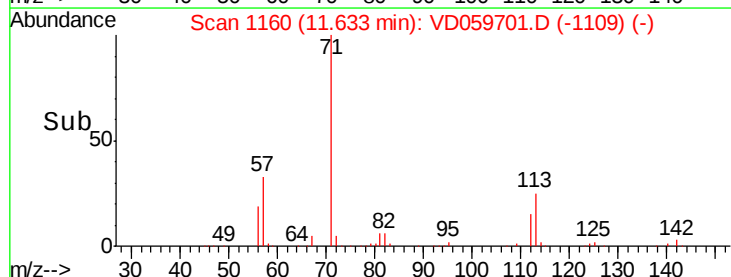
600000

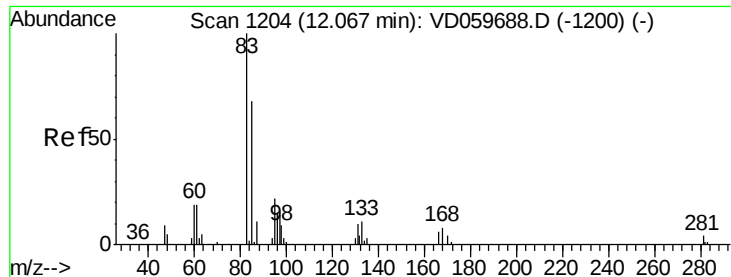
400000

200000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 634.223 ug/l

RT: 12.12 min Scan# 1209

Delta R.T. 0.05 min

Lab File: VD059701.D

Acq: 7 Aug 2018 13:26

Instrument :

MSVOA\_D

ClientSampleId :

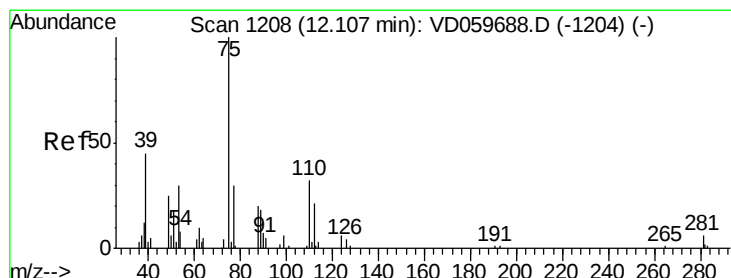
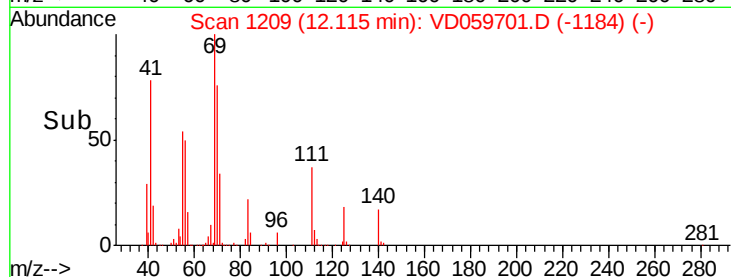
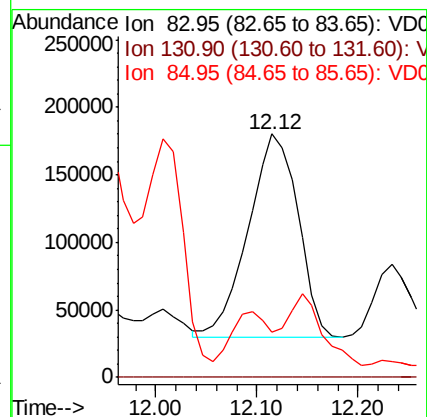
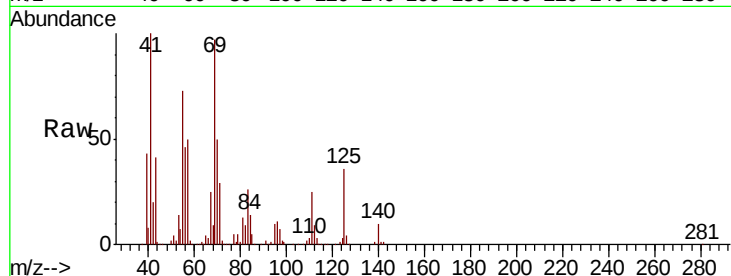
Tot Ion: 83 Resp: 519605

Ion Ratio Lower Upper

83 100

131 0.0 5.3 15.9#

85 18.4 34.1 102.2#



#76

1,2,3-Trichloropropane

Concen: 26.199 ug/l

RT: 12.17 min Scan# 1215

Delta R.T. 0.07 min

Lab File: VD059701.D

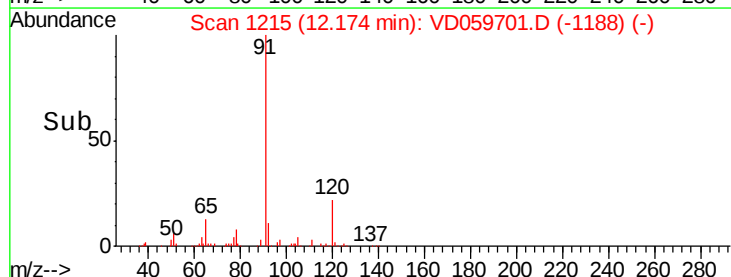
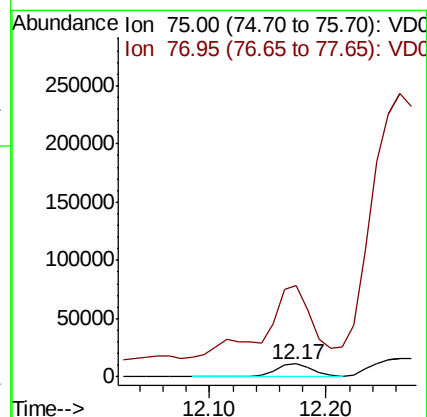
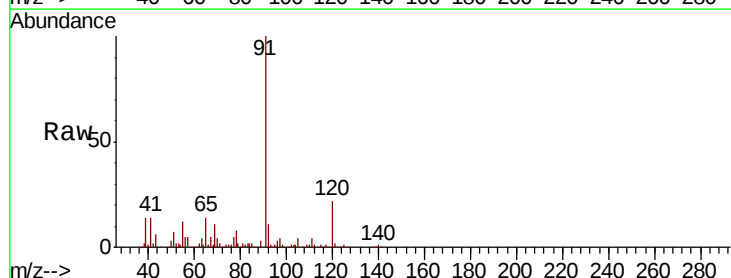
Acq: 7 Aug 2018 13:26

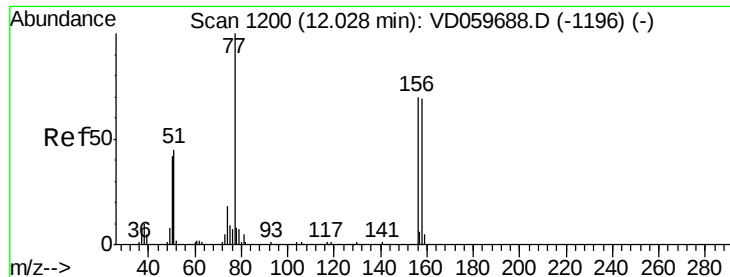
Tgt Ion: 75 Resp: 24605

Ion Ratio Lower Upper

75 100

77 694.6 15.5 46.5#





#77

Bromobenzene

Concen: 1.506 ug/l

RT: 12.14 min Scan# 1212

Delta R.T. 0.12 min

Lab File: VD059701.D

Acq: 7 Aug 2018 13:26

Instrument :

MSVOA\_D

ClientSampleId :

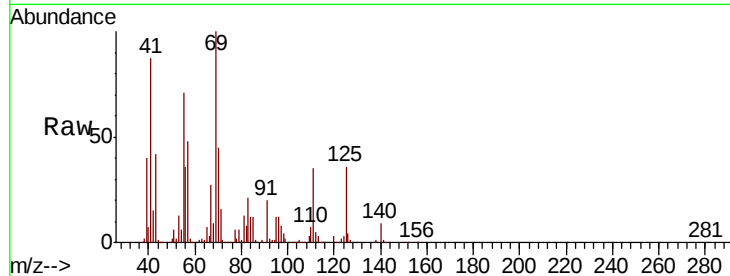
Tot Ion:156 Resp: 1792

Ion Ratio Lower Upper

156 100

77 3334.3 71.2 213.6#

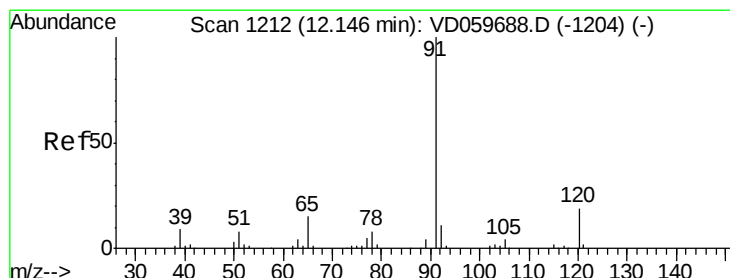
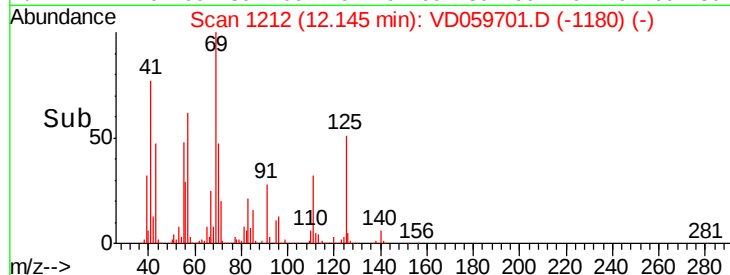
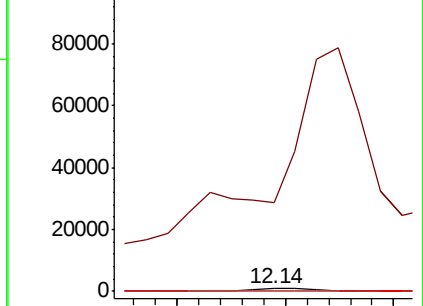
158 0.0 49.1 147.3#



Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): V

Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 589.562 ug/l

RT: 12.17 min Scan# 1215

Delta R.T. 0.03 min

Lab File: VD059701.D

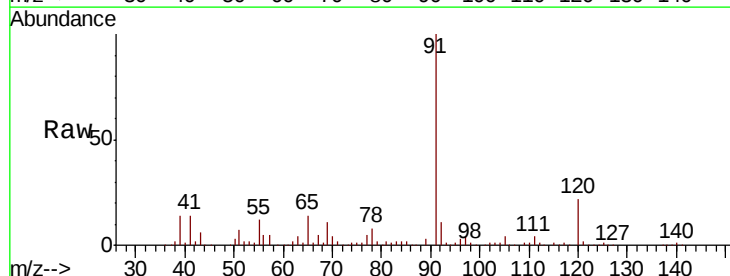
Acq: 7 Aug 2018 13:26

Tgt Ion: 91 Resp: 2982967

Ion Ratio Lower Upper

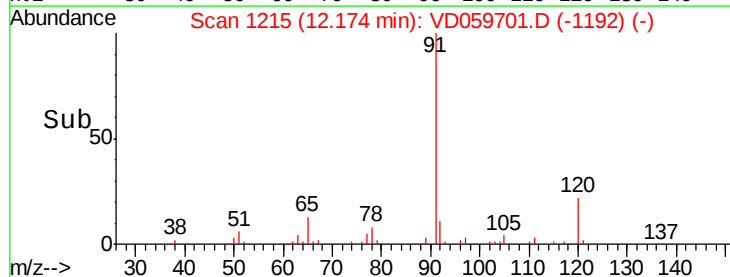
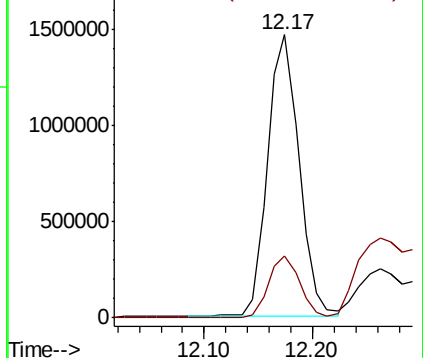
91 100

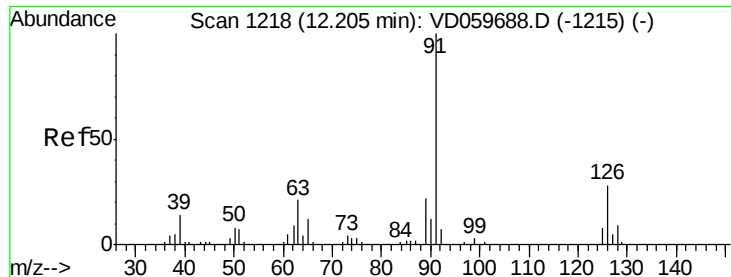
120 21.9 9.5 28.5



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V

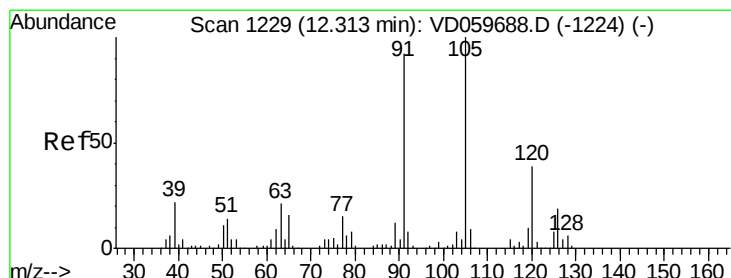
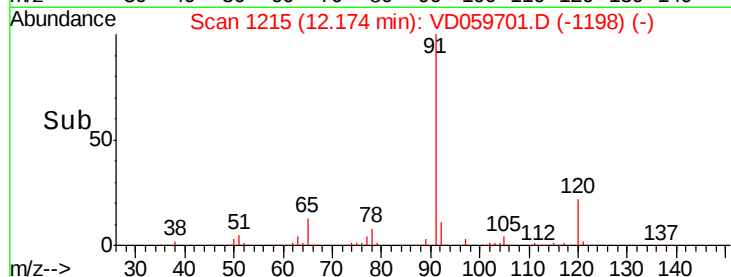
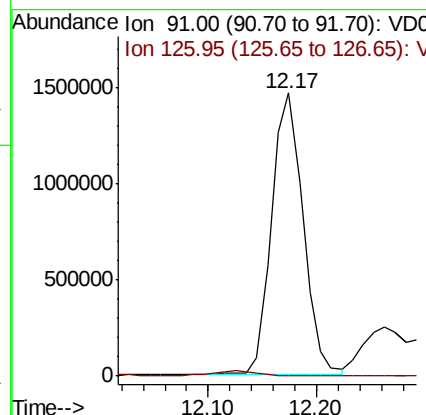
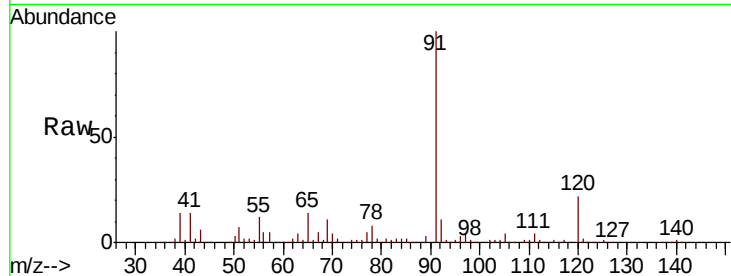




#79  
2-Chlorotoluene  
Concen: 976.207 ug/l  
RT: 12.17 min Scan# 1215  
Delta R.T. -0.03 min  
Lab File: VD059701.D  
Acq: 7 Aug 2018 13:26

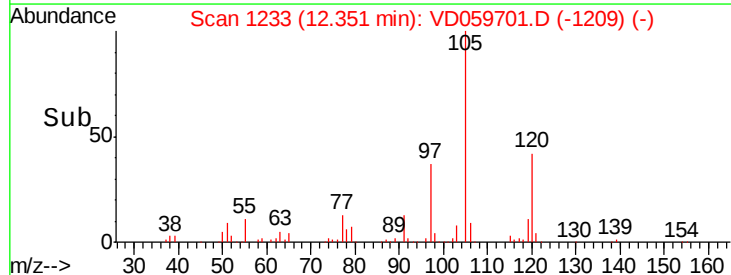
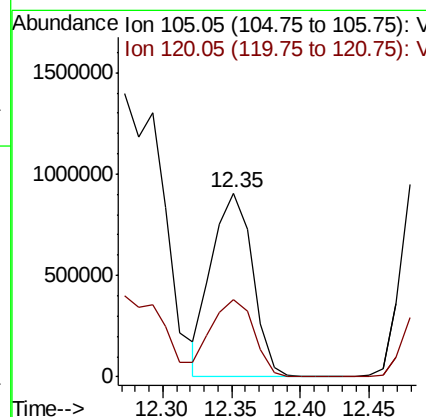
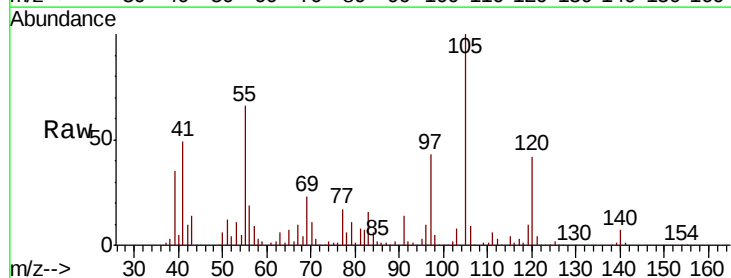
Instrument :  
MSVOA\_D  
ClientSampleId :

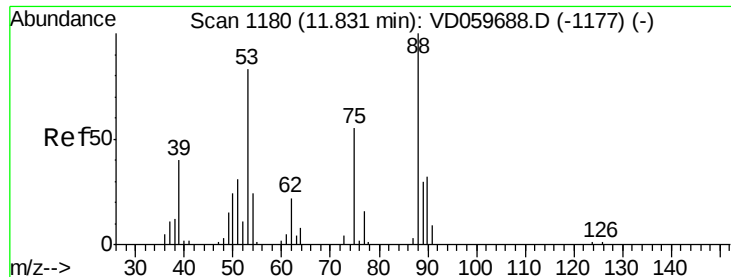
Tot Ion: 91 Resp: 2982967  
Ion Ratio Lower Upper  
91 100  
126 0.2 13.7 41.0#



#80  
1,3,5-Trimethylbenzene  
Concen: 549.348 ug/l  
RT: 12.35 min Scan# 1233  
Delta R.T. 0.04 min  
Lab File: VD059701.D  
Acq: 7 Aug 2018 13:26

Tgt Ion:105 Resp: 1868316  
Ion Ratio Lower Upper  
105 100  
120 42.3 19.7 59.1

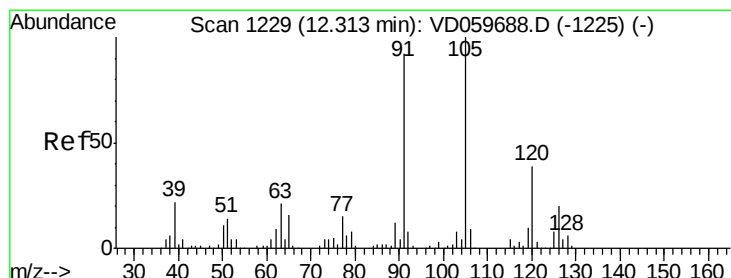
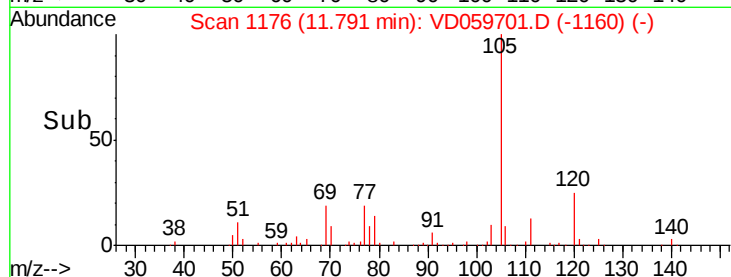
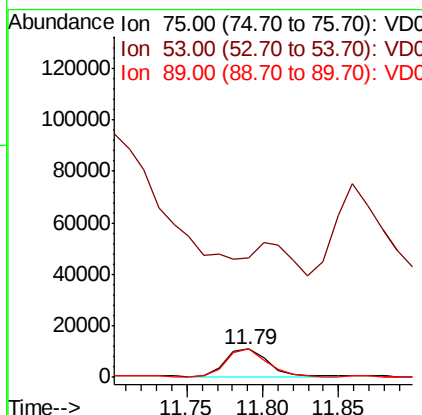
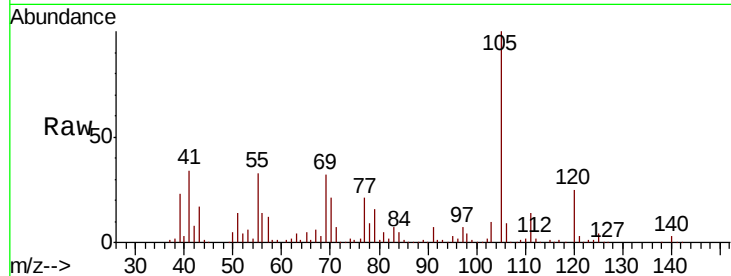




#81  
trans-1,4-Dichloro-2-butene  
Concen: 99.320 ug/l  
RT: 11.79 min Scan# 1176  
Delta R.T. -0.04 min  
Lab File: VD059701.D  
Acq: 7 Aug 2018 13:26

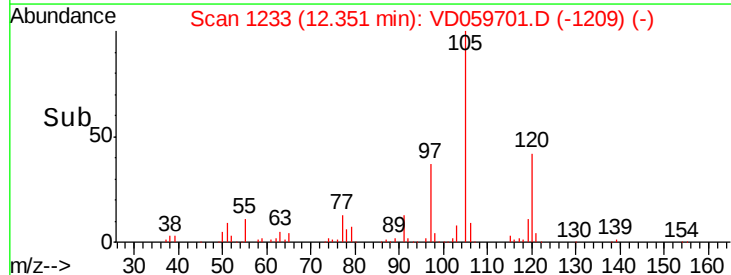
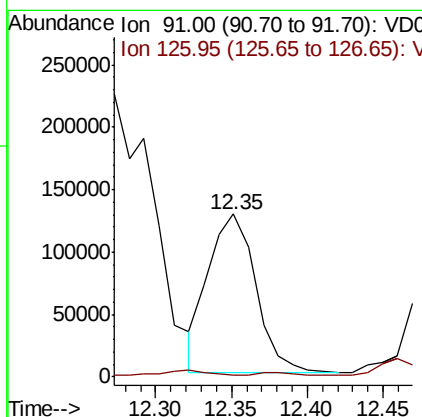
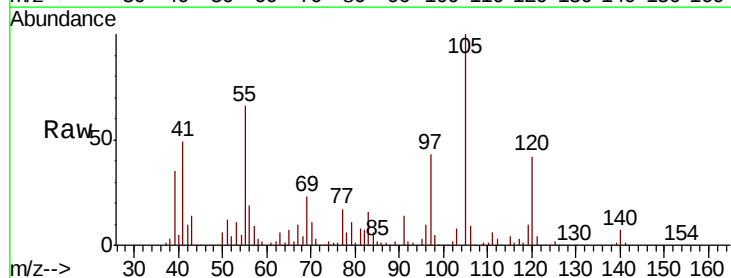
Instrument :  
MSVOA\_D  
ClientSampleId :

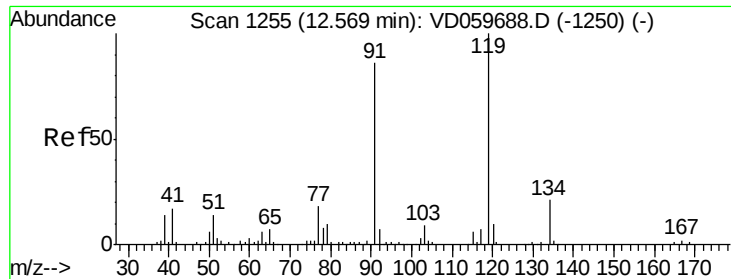
Tot Ion: 75 Resp: 22764  
Ion Ratio Lower Upper  
75 100  
53 420.4 120.5 180.7#  
89 101.6 44.4 66.6#



#82  
4-Chlorotoluene  
Concen: 77.674 ug/l  
RT: 12.35 min Scan# 1233  
Delta R.T. 0.04 min  
Lab File: VD059701.D  
Acq: 7 Aug 2018 13:26

Tgt Ion: 91 Resp: 277844  
Ion Ratio Lower Upper  
91 100  
126 1.3 10.7 31.9#

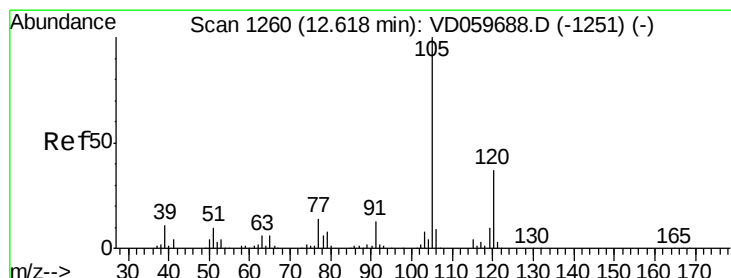
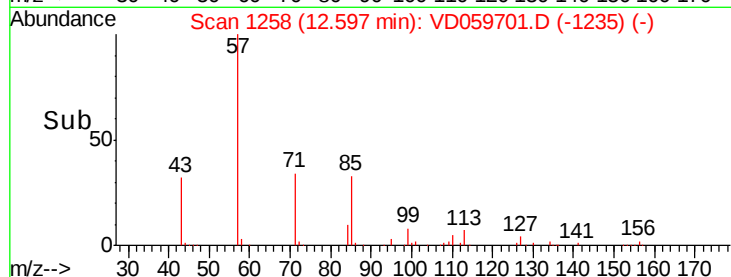
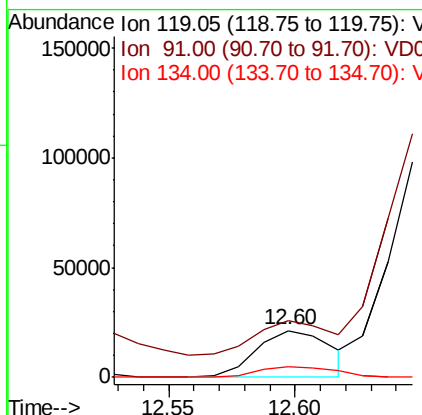
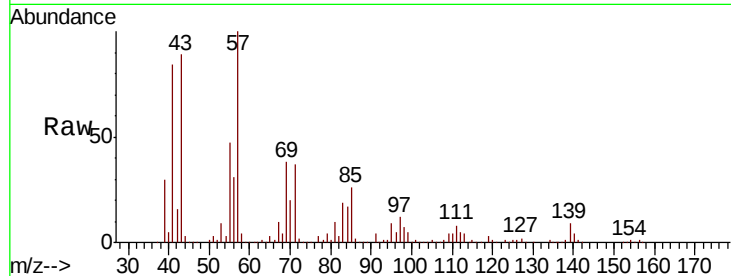




#83  
 tert-Butylbenzene  
 Concen: 11.428 ug/l  
 RT: 12.60 min Scan# 1258  
 Delta R.T. 0.03 min  
 Lab File: VD059701.D  
 Acq: 7 Aug 2018 13:26

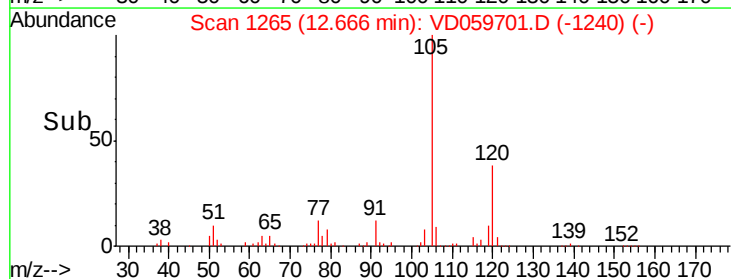
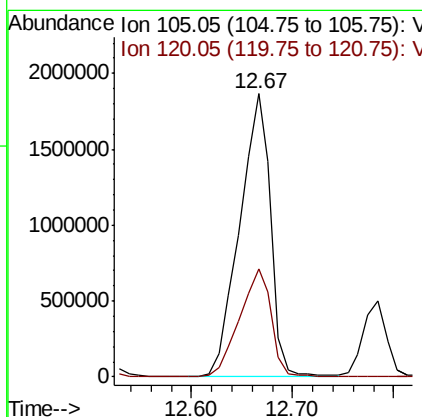
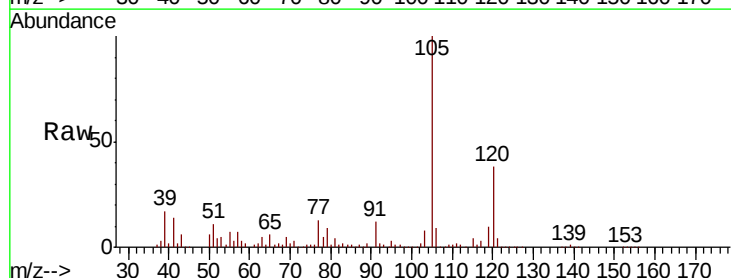
Instrument :  
 MSVOA\_D  
 ClientSampled :

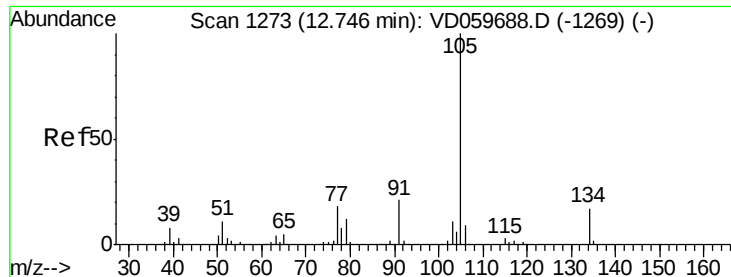
Tot Ion:119 Resp: 43502  
 Ion Ratio Lower Upper  
 119 100  
 91 122.5 43.3 129.9  
 134 21.8 10.5 31.6



#84  
 1,2,4-Trimethylbenzene  
 Concen: 1098.996 ug/l  
 RT: 12.67 min Scan# 1265  
 Delta R.T. 0.05 min  
 Lab File: VD059701.D  
 Acq: 7 Aug 2018 13:26

Tgt Ion:105 Resp: 3961013  
 Ion Ratio Lower Upper  
 105 100  
 120 38.3 18.7 56.1

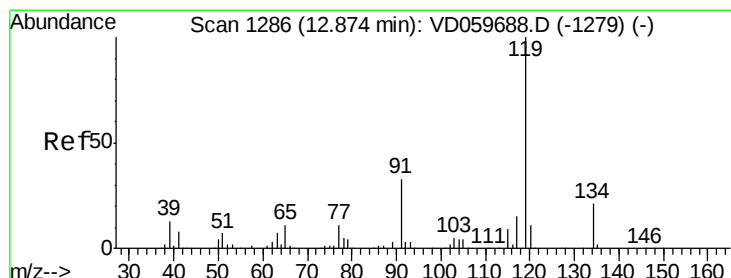
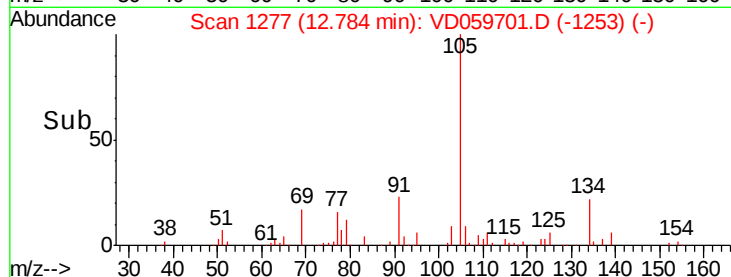
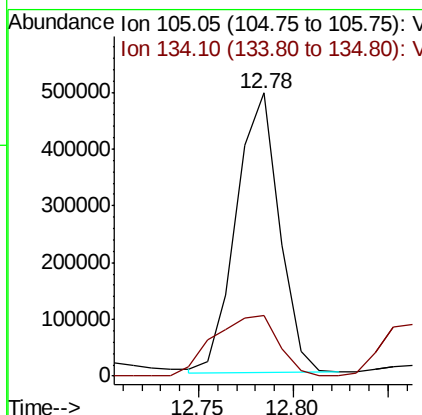
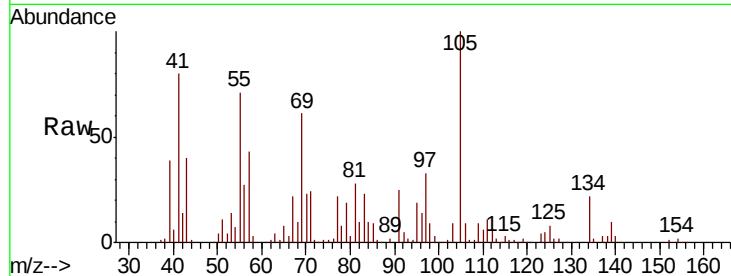




#85  
 sec-Butylbenzene  
 Concen: 183.074 ug/l  
 RT: 12.78 min Scan# 1277  
 Delta R.T. 0.04 min  
 Lab File: VD059701.D  
 Acq: 7 Aug 2018 13:26

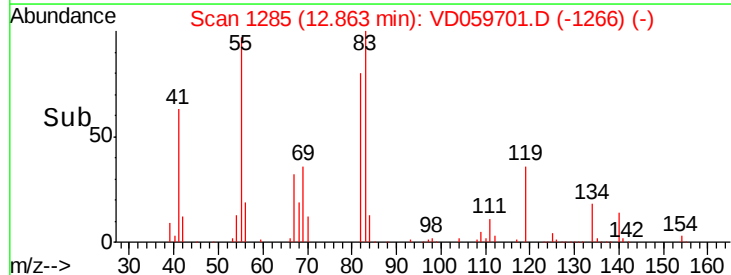
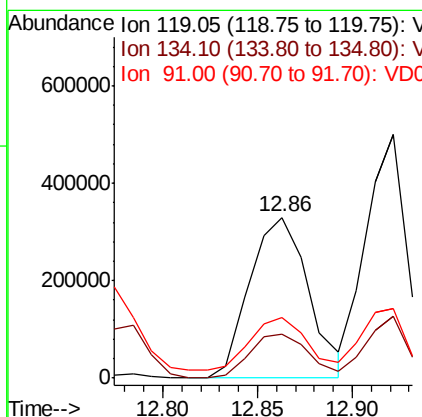
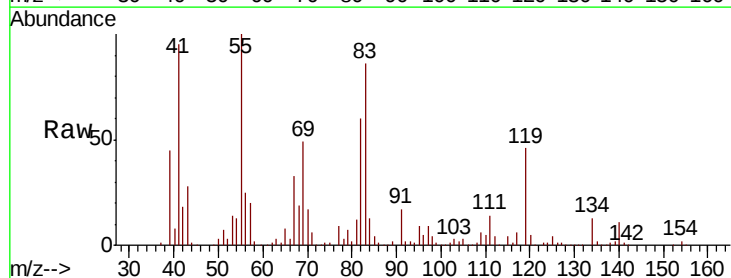
Instrument :  
 MSVOA\_D  
 ClientSampleId :

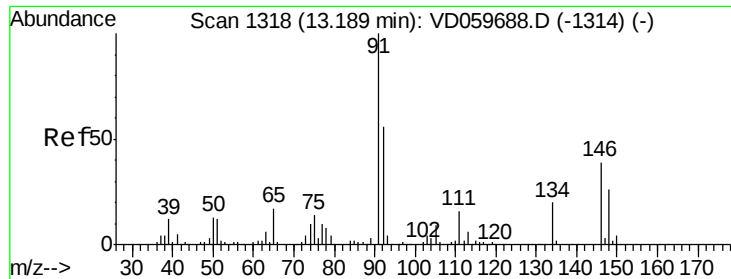
Tot Ion:105 Resp: 773913  
 Ion Ratio Lower Upper  
 105 100  
 134 21.6 8.3 24.9



#86  
 p-Isopropyltoluene  
 Concen: 197.295 ug/l  
 RT: 12.86 min Scan# 1285  
 Delta R.T. -0.01 min  
 Lab File: VD059701.D  
 Acq: 7 Aug 2018 13:26

Tgt Ion:119 Resp: 711252  
 Ion Ratio Lower Upper  
 119 100  
 134 27.6 10.7 32.1  
 91 37.7 16.6 49.7

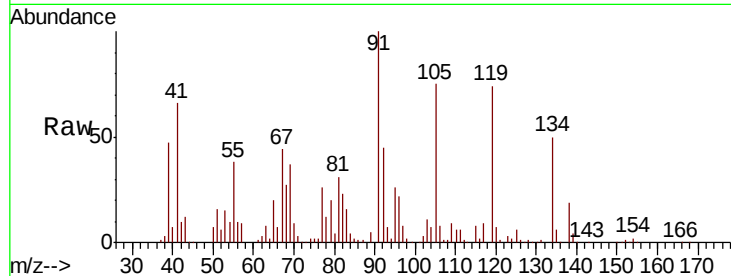




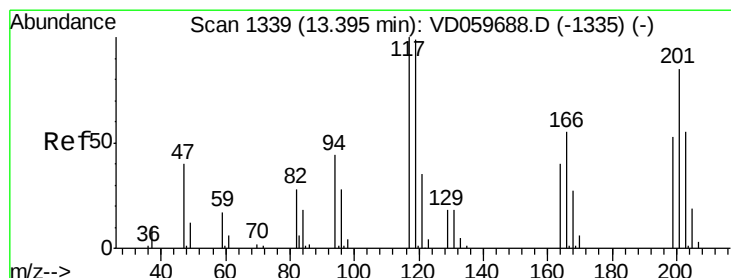
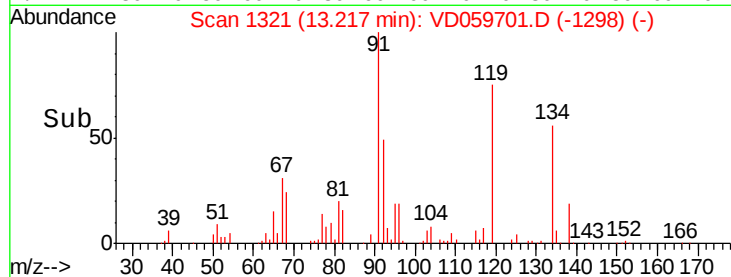
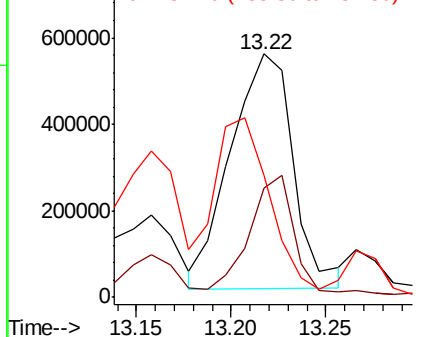
#89  
n-Butylbenzene  
Concen: 339.745 ug/l  
RT: 13.22 min Scan# 1321  
Delta R.T. 0.03 min  
Lab File: VD059701.D  
Acq: 7 Aug 2018 13:26

Instrument :  
MSVOA\_D  
ClientSampled :

Tot Ion: 91 Resp: 1241881  
Ion Ratio Lower Upper  
91 100  
92 44.8 28.2 84.6  
134 50.0 9.8 29.5#

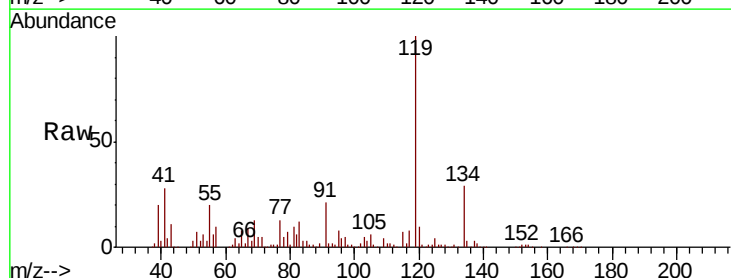


Abundance Ion 91.00 (90.70 to 91.70): VDC  
Ion 92.00 (91.70 to 92.70): VDC  
Ion 134.10 (133.80 to 134.80): V

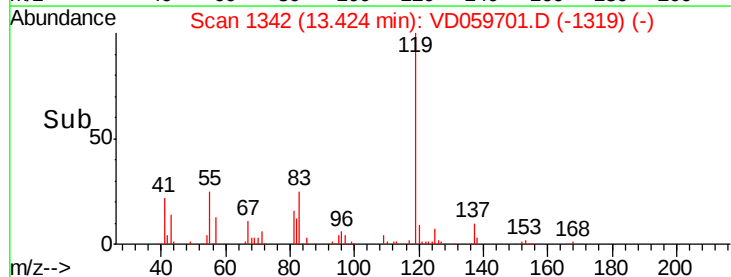
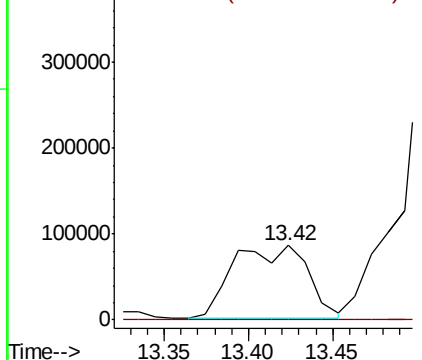


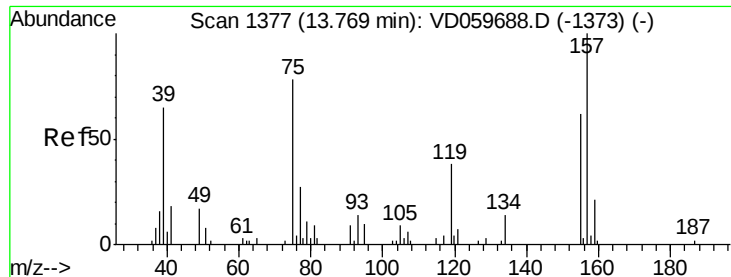
#90  
Hexachloroethane  
Concen: 277.634 ug/l  
RT: 13.42 min Scan# 1342  
Delta R.T. 0.03 min  
Lab File: VD059701.D  
Acq: 7 Aug 2018 13:26

Tgt Ion:117 Resp: 259408  
Ion Ratio Lower Upper  
117 100  
201 0.0 42.4 127.1#



Abundance Ion 116.85 (116.55 to 117.55): V  
Ion 200.75 (200.45 to 201.45): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 109.485 ug/l

RT: 13.79 min Scan# 1379

Delta R.T. 0.02 min

Lab File: VD059701.D

Acq: 7 Aug 2018 13:26

Instrument :

MSVOA\_D

ClientSampleID :

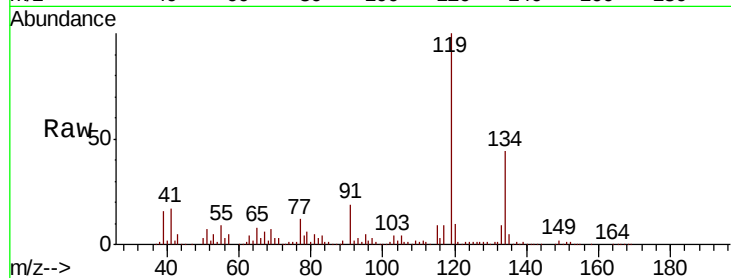
Tot Ion: 75 Resp: 18735

Ion Ratio Lower Upper

75 100

155 4.3 40.0 119.9#

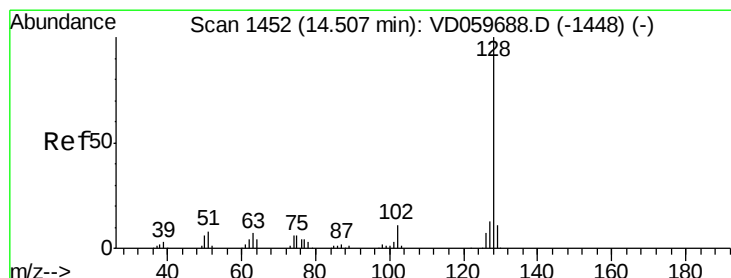
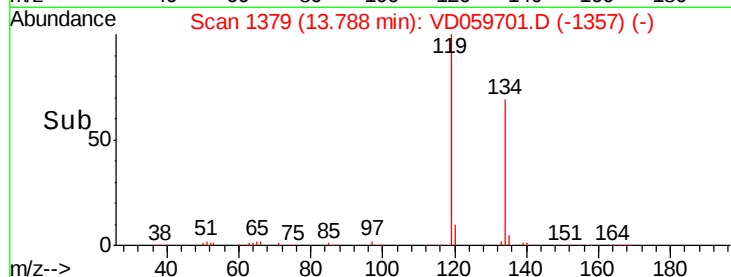
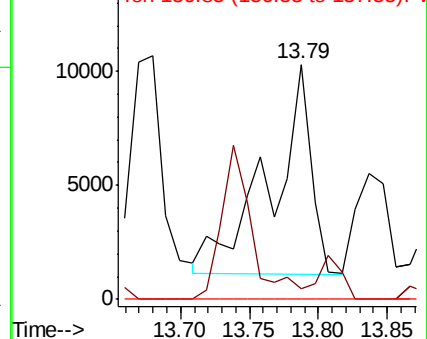
157 0.0 64.3 192.7#



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 154.90 (154.60 to 155.60): V

Ion 156.85 (156.55 to 157.55): V



#95

Naphthalene

Concen: 159.329 ug/l

RT: 14.52 min Scan# 1453

Delta R.T. 0.01 min

Lab File: VD059701.D

Acq: 7 Aug 2018 13:26

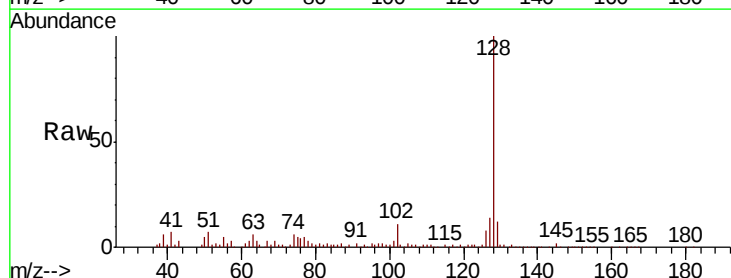
Tgt Ion:128 Resp: 367152

Ion Ratio Lower Upper

128 100

127 13.7 10.6 16.0

129 11.7 8.8 13.2



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

