

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD032019\  
 Data File : VD061217.D  
 Acq On : 20 Mar 2019 19:26  
 Operator : VA/AP  
 Sample : K2004-03  
 Misc : 5.02g/5ml/MSVOA D/SOIL  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Mar 22 02:02:42 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D030719S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 08 02:35:39 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.04  | 168  | 100808   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.21  | 114  | 194096   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 12.36 | 117  | 98750    | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 14.52 | 152  | 24819    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.44  | 65   | 70149    | 83.60  | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =      | 167.20% |          |
| 35) Dibromofluoromethane    | 6.92  | 113  | 85194    | 59.14  | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =      | 118.28% |          |
| 50) Toluene-d8              | 10.40 | 98   | 171041   | 47.28  | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =      | 94.56%  |          |
| 62) 4-Bromofluorobenzene    | 13.54 | 95   | 301746   | 214.99 | ug/l    | -0.01    |
| Spiked Amount               |       |      | Recovery | =      | 429.98% |          |

| Target Compounds               | R.T.  | QIon | Response | Conc     | Units  | Qvalue |
|--------------------------------|-------|------|----------|----------|--------|--------|
| 15) Acrylonitrile              | 4.23  | 53   | 248      | 1.314    | ug/l # | 15     |
| 16) Acetone                    | 3.22  | 43   | 50072    | 208.676  | ug/l   | 98     |
| 18) Methyl Acetate             | 3.79  | 43   | 15789    | 33.436   | ug/l # | 59     |
| 20) Methylene Chloride         | 3.82  | 84   | 14265    | 9.236    | ug/l   | 88     |
| 25) 2-Butanone                 | 6.02  | 43   | 53095    | 195.003  | ug/l # | 55     |
| 29) Tetrahydrofuran            | 6.65  | 42   | 9659     | 65.331   | ug/l # | 1      |
| 31) Cyclohexane                | 7.10  | 56   | 514986   | 346.829  | ug/l # | 19     |
| 36) 1,1-Dichloropropene        | 7.04  | 75   | 6647     | 3.973    | ug/l # | 39     |
| 37) Ethyl Acetate              | 6.02  | 43   | 40851    | 52.032   | ug/l # | 66     |
| 38) Carbon Tetrachloride       | 7.04  | 117  | 9161     | 4.971    | ug/l # | 11     |
| 39) Methylcyclohexane          | 8.83  | 83   | 786384   | 453.286  | ug/l # | 38     |
| 43) Isopropyl Acetate          | 9.27  | 43   | 1045111  | 961.096  | ug/l # | 43     |
| 45) 1,2-Dichloropropane        | 8.94  | 63   | 4638     | 4.223    | ug/l # | 1      |
| 47) Bromodichloromethane       | 9.31  | 83   | 100990   | 64.236   | ug/l # | 62     |
| 48) Methyl methacrylate        | 9.10  | 41   | 65383    | 106.791  | ug/l # | 41     |
| 51) 4-Methyl-2-Pentanone       | 10.36 | 43   | 136889   | 205.484  | ug/l # | 76     |
| 55) 1,1,2-Trichloroethane      | 11.10 | 97   | 1954261  | 2257.329 | ug/l # | 18     |
| 56) Ethyl methacrylate         | 11.10 | 69   | 430016   | 474.536  | ug/l # | 1      |
| 59) 2-Hexanone                 | 11.49 | 43   | 534571   | 1096.990 | ug/l # | 36     |
| 60) Dibromochloromethane       | 11.64 | 129  | 12618    | 9.903    | ug/l # | 47     |
| 65) Chlorobenzene              | 12.43 | 112  | 2335     | 1.206    | ug/l # | 42     |
| 67) Ethyl Benzene              | 12.55 | 91   | 12771    | 4.431    | ug/l # | 43     |
| 73) Isopropylbenzene           | 13.41 | 105  | 4457     | 2.492    | ug/l   | 97     |
| 74) N-ethyl acetate            | 13.28 | 43   | 1310329  | 2601.700 | ug/l # | 47     |
| 75) 1,1,2,2-Tetrachloroethane  | 13.71 | 83   | 395494   | 1133.295 | ug/l # | 64     |
| 76) 1,2,3-Trichloropropane     | 13.72 | 75   | 989      | 2.770    | ug/l # | 1      |
| 77) Bromobenzene               | 13.73 | 156  | 2746     | 6.014    | ug/l # | 1      |
| 78) n-propylbenzene            | 13.72 | 91   | 19408    | 9.269    | ug/l # | 54     |
| 79) 2-Chlorotoluene            | 13.98 | 91   | 15965    | 13.849   | ug/l   | 78     |
| 80) 1,3,5-Trimethylbenzene     | 14.23 | 105  | 12521    | 9.221    | ug/l   | 98     |
| 81) trans-1,4-Dichloro-2-buten | 13.46 | 75   | 814      | 7.732    | ug/l # | 1      |
| 82) 4-Chlorotoluene            | 13.98 | 91   | 26275    | 19.279   | ug/l   | 80     |
| 83) tert-Butylbenzene          | 14.19 | 119  | 43394    | 29.201   | ug/l # | 69     |
| 84) 1,2,4-Trimethylbenzene     | 14.23 | 105  | 12521    | 9.221    | ug/l   | 98     |

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Misc : 5.02g/5ml/MSVOA D/SOIL  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

Quant Time: Mar 22 02:02:42 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D030719S.M  
Quant Title : SW846 8260  
QLast Update : Fri Mar 08 02:35:39 2019  
Response via : Initial Calibration

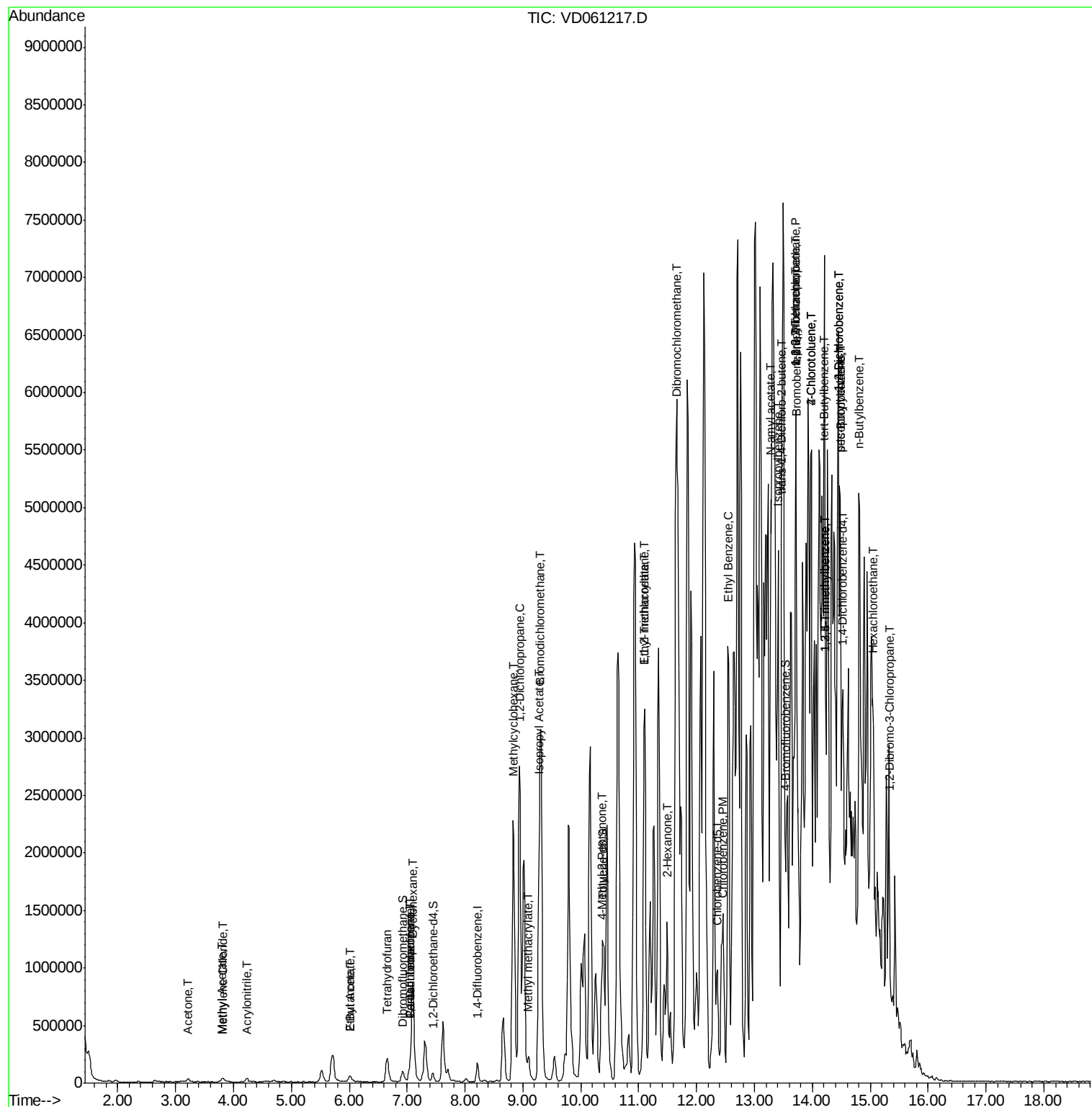
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 85) sec-Butylbenzene           | 14.49 | 105  | 3682     | 2.030  | ug/l   | 96       |
| 86) p-Isopropyltoluene         | 14.49 | 119  | 2537     | 1.711  | ug/l # | 1        |
| 87) 1,3-Dichlorobenzene        | 14.46 | 146  | 2195     | 2.692  | ug/l # | 1        |
| 88) 1,4-Dichlorobenzene        | 14.46 | 146  | 2195     | 2.740  | ug/l # | 1        |
| 89) n-Butylbenzene             | 14.81 | 91   | 54386    | 38.191 | ug/l # | 44       |
| 90) Hexachloroethane           | 15.05 | 117  | 27026    | 64.543 | ug/l # | 13       |
| 92) 1,2-Dibromo-3-Chloropropan | 15.34 | 75   | 2219     | 52.766 | ug/l # | 31       |

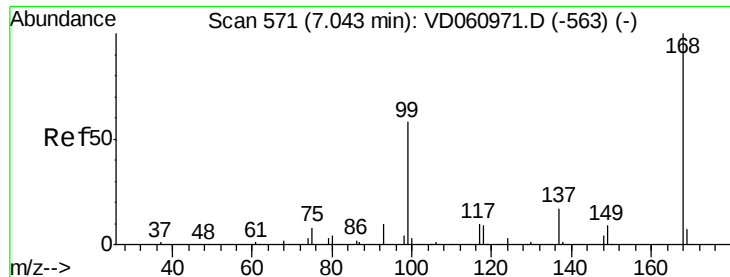
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD032019\  
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Sample : K2004-03  
Misc : 5.02a/5ml/MSVOA D/SOIL  
ALS Vial : 20 Sample Multiplier: 1

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MSVOA\_D  
ClientSampled :

Quant Time: Mar 22 02:02:42 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D030719S.M  
Quant Title : SW846 8260  
QLast Update : Fri Mar 08 02:35:39 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.00 min

Lab File: VD061217.D

Acq: 20 Mar 2019 19:26

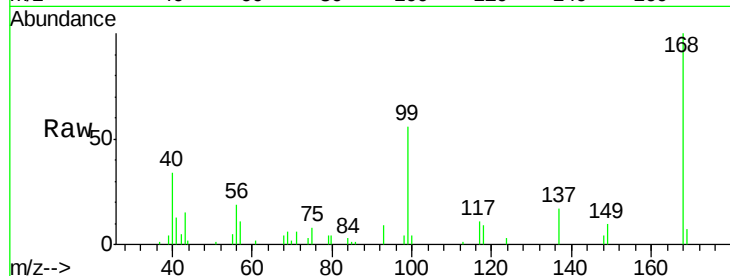
Instrument :  
MSVOA\_D  
ClientSampled :

Tot Ion:168 Resp: 100808

Ion Ratio Lower Upper

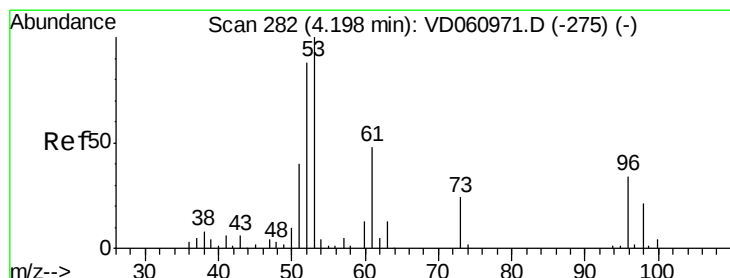
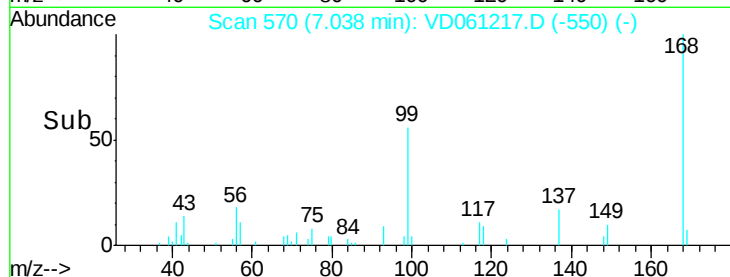
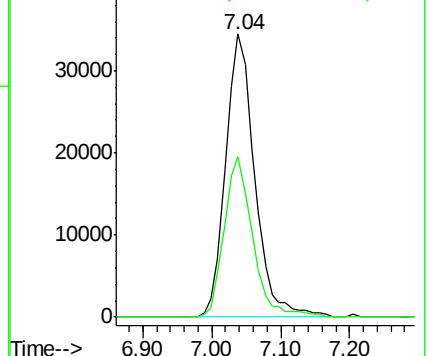
168 100

99 56.5 47.3 70.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#15

Acrylonitrile

Concen: 1.314 ug/l

RT: 4.23 min Scan# 285

Delta R.T. 0.03 min

Lab File: VD061217.D

Acq: 20 Mar 2019 19:26

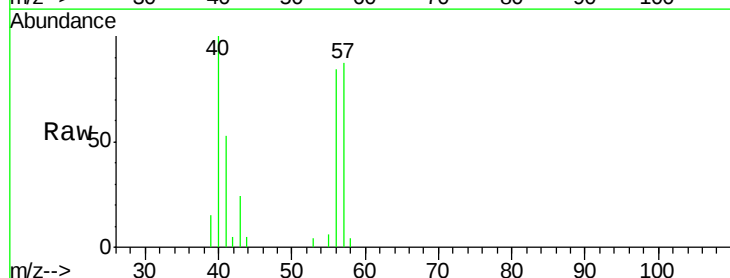
Tgt Ion: 53 Resp: 248

Ion Ratio Lower Upper

53 100

52 0.0 70.2 105.4#

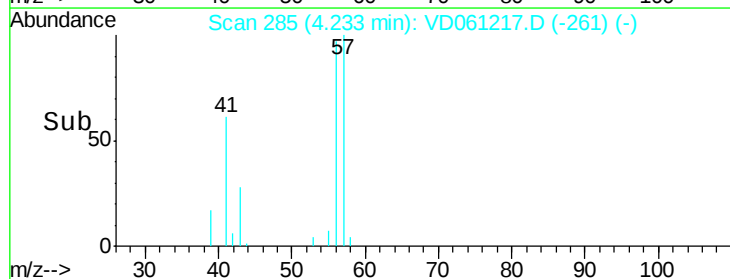
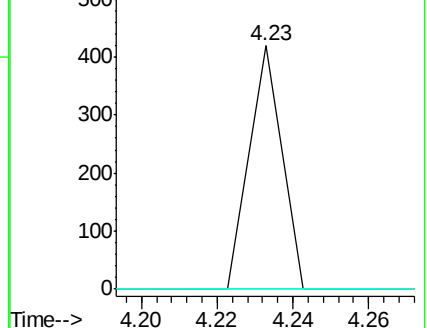
51 0.0 31.7 47.5#

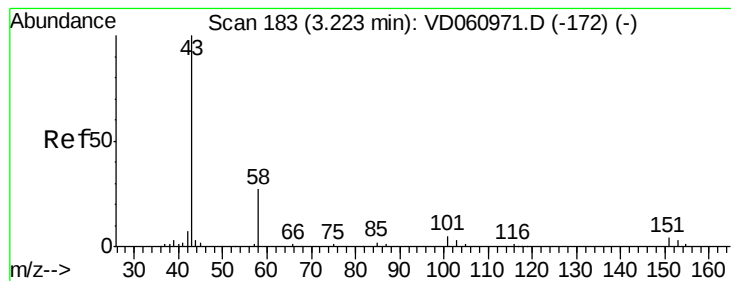


Abundance Ion 53.00 (52.70 to 53.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

Ion 51.00 (50.70 to 51.70): VDC





#16

Acetone

Concen: 208.676 ug/l

RT: 3.22 min Scan# 182

Delta R.T. -0.00 min

Lab File: VD061217.D

Acq: 20 Mar 2019 19:26

Instrument :

MSVOA\_D

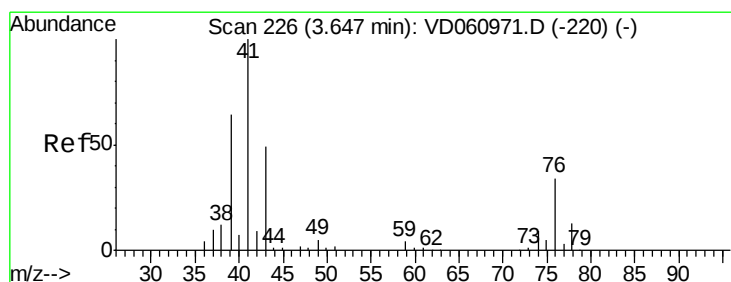
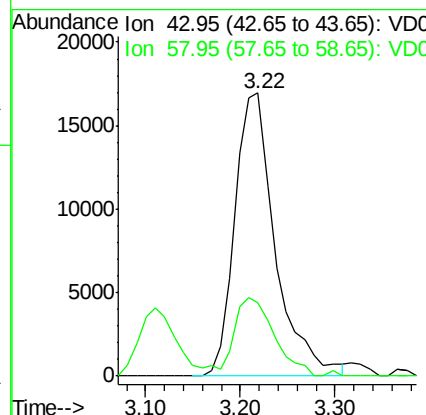
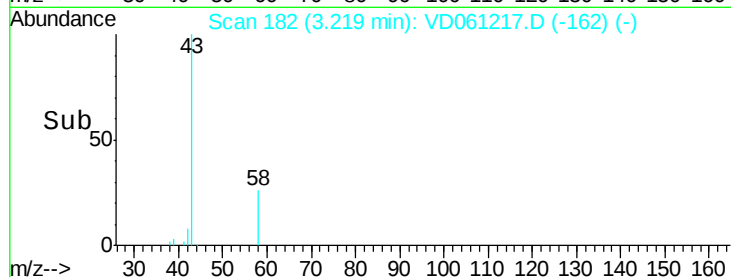
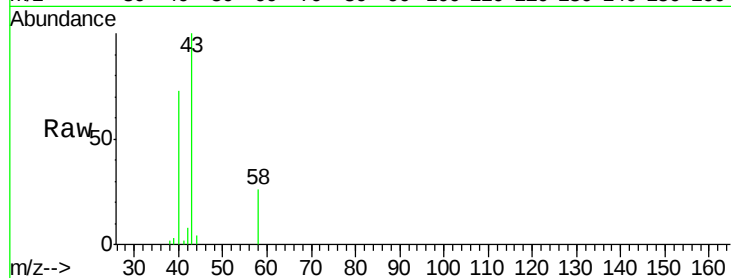
ClientSampleId :

Tot Ion: 43 Resp: 50072

Ion Ratio Lower Upper

43 100

58 25.8 21.6 32.4



#18

Methyl Acetate

Concen: 33.436 ug/l

RT: 3.79 min Scan# 240

Delta R.T. 0.14 min

Lab File: VD061217.D

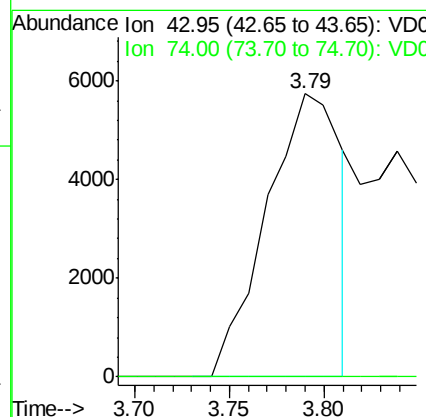
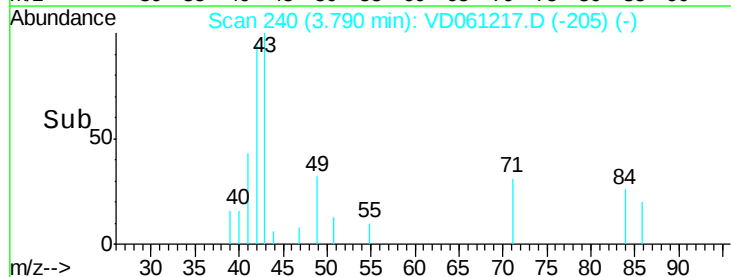
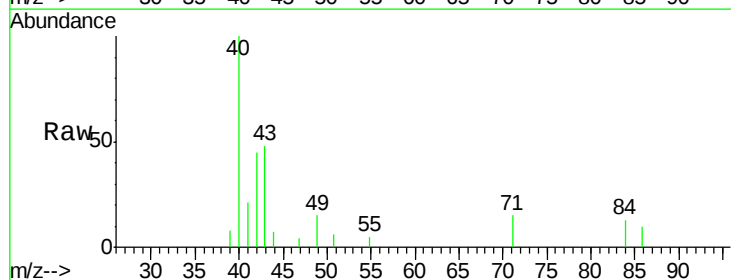
Acq: 20 Mar 2019 19:26

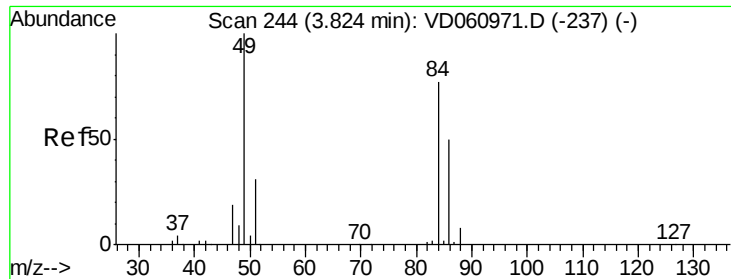
Tgt Ion: 43 Resp: 15789

Ion Ratio Lower Upper

43 100

74 0.0 14.6 21.8#

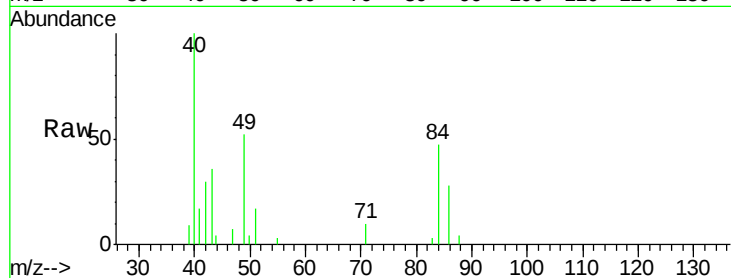




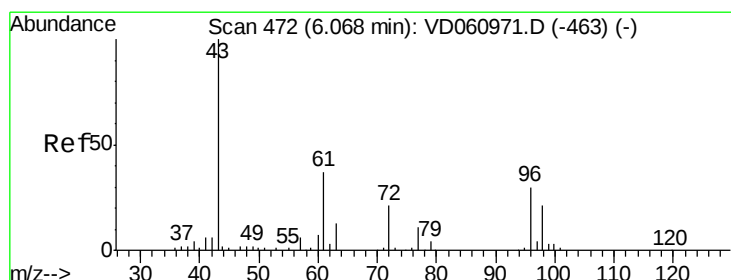
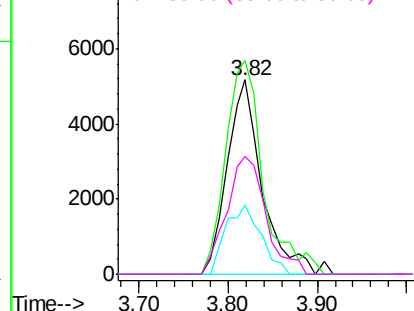
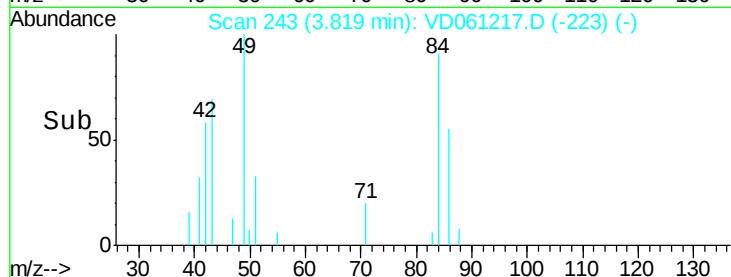
#20  
Methylene Chloride  
Concen: 9.236 ug/l  
RT: 3.82 min Scan# 243  
Delta R.T. -0.00 min  
Lab File: VD061217.D  
Acq: 20 Mar 2019 19:26

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion: 84 Resp: 14265  
Ion Ratio Lower Upper  
84 100  
49 110.1 104.2 156.2  
51 36.0 32.3 48.5  
86 60.7 52.3 78.5

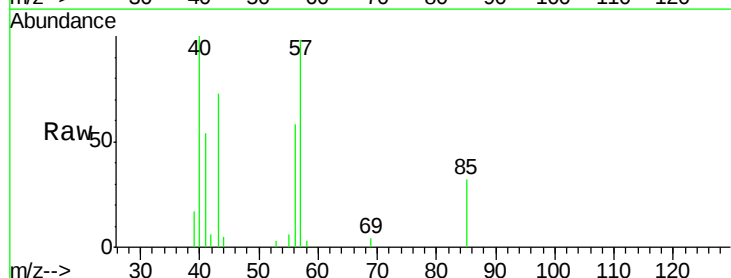


Abundance Ion 83.95 (83.65 to 84.65): VDC  
Ion 48.90 (48.60 to 49.60): VDC  
Ion 50.90 (50.60 to 51.60): VDC  
Ion 85.90 (85.60 to 86.60): VDC

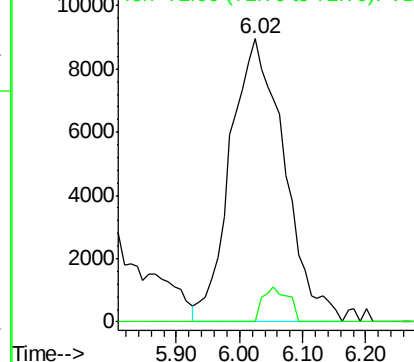
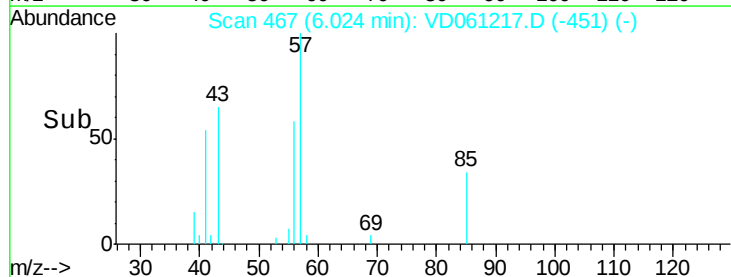


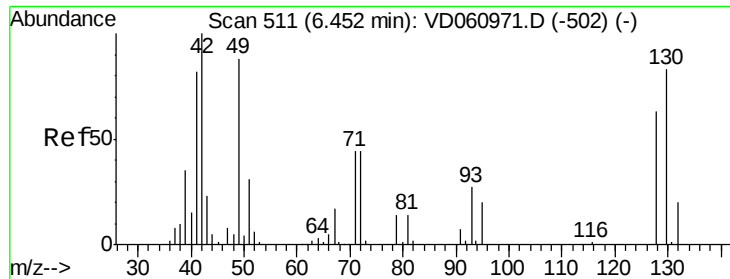
#25  
2-Butanone  
Concen: 195.003 ug/l  
RT: 6.02 min Scan# 467  
Delta R.T. -0.04 min  
Lab File: VD061217.D  
Acq: 20 Mar 2019 19:26

Tgt Ion: 43 Resp: 53095  
Ion Ratio Lower Upper  
43 100  
72 0.0 16.7 25.1#



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

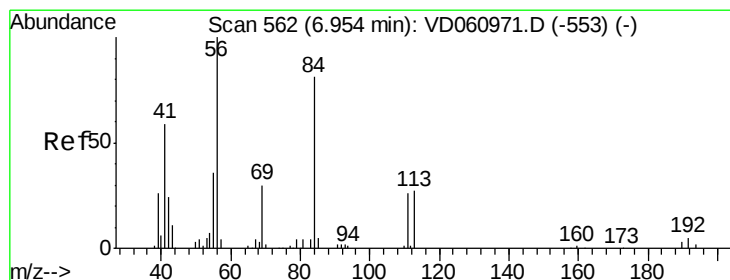
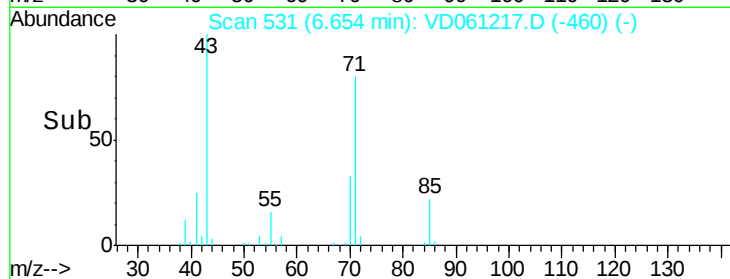
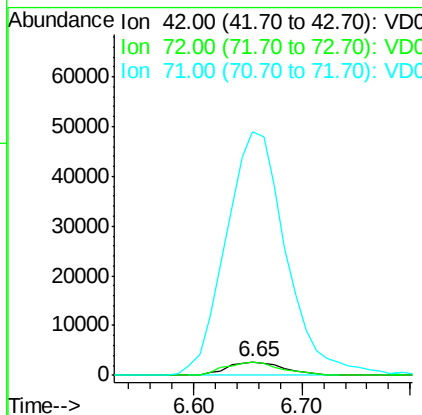
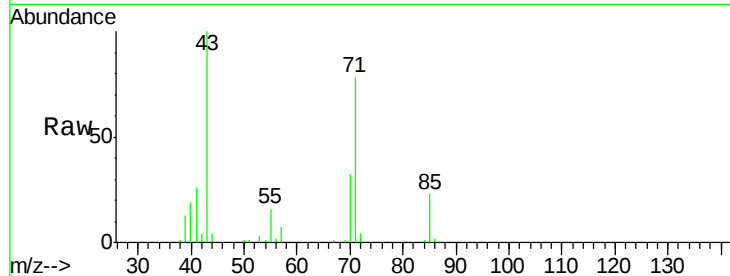




#29  
Tetrahydrofuran  
Concen: 65.331 ug/l  
RT: 6.65 min Scan# 531  
Delta R.T. 0.20 min  
Lab File: VD061217.D  
Acq: 20 Mar 2019 19:26

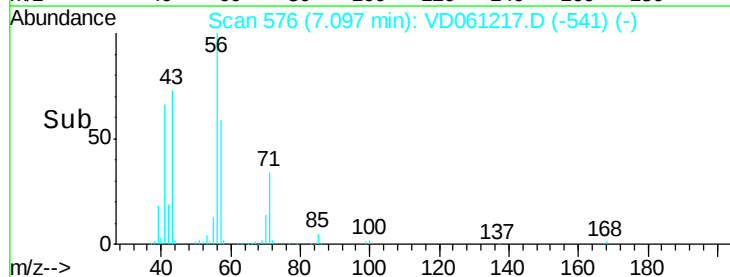
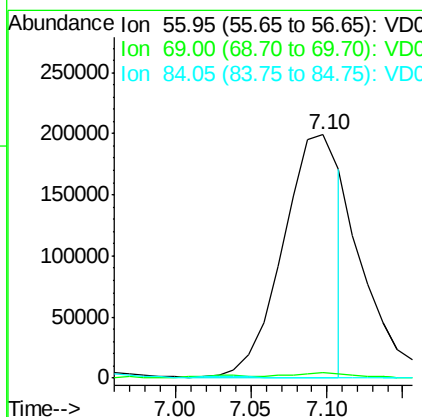
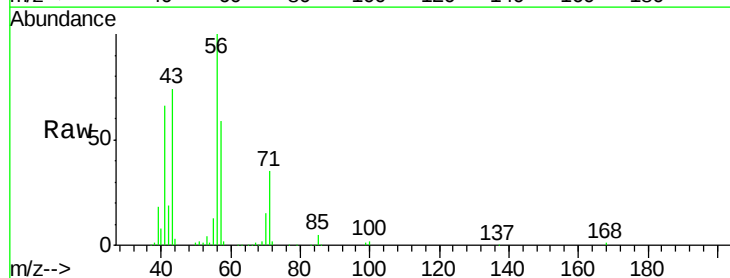
Instrument :  
MSVOA\_D  
ClientSampleId :

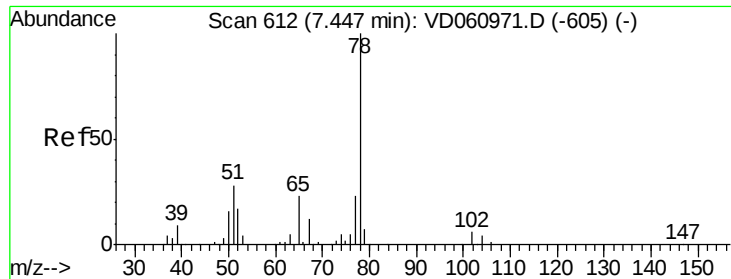
Tot Ion: 42 Resp: 9659  
Ion Ratio Lower Upper  
42 100  
72 98.5 34.5 51.7#  
71 1971.0 33.8 50.6#



#31  
Cyclohexane  
Concen: 346.829 ug/l  
RT: 7.10 min Scan# 576  
Delta R.T. 0.14 min  
Lab File: VD061217.D  
Acq: 20 Mar 2019 19:26

Tgt Ion: 56 Resp: 514986  
Ion Ratio Lower Upper  
56 100  
69 2.1 24.0 36.0#  
84 0.3 65.8 98.6#





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.44 min Scan# 611

Delta R.T. -0.00 min

Lab File: VD061217.D

Acq: 20 Mar 2019 19:26

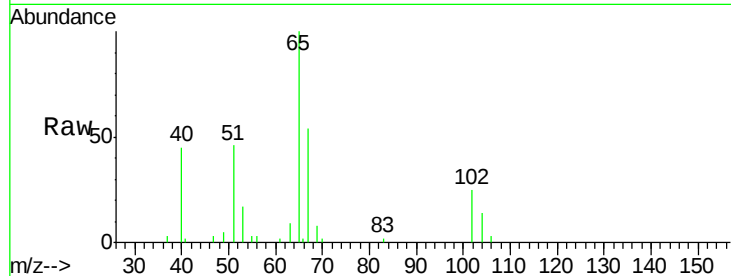
Instrument :  
MSVOA\_D  
ClientSampled :

Tot Ion: 65 Resp: 70149

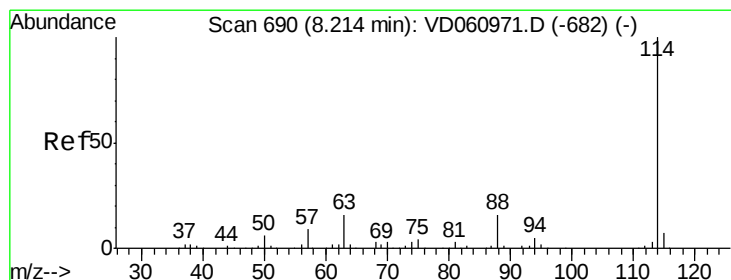
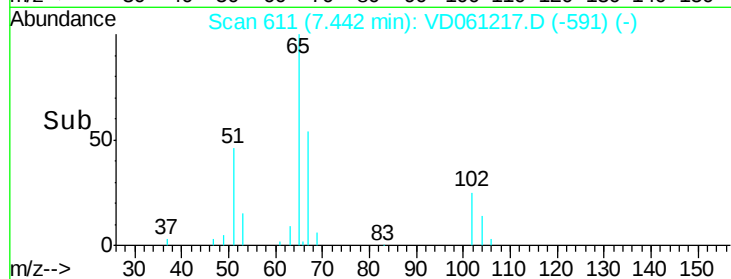
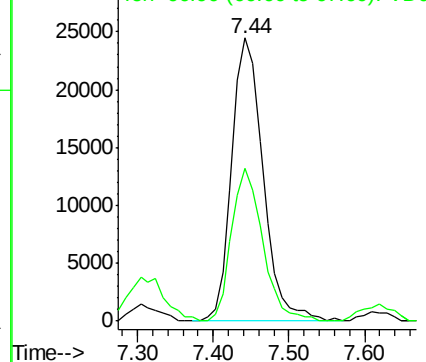
Ion Ratio Lower Upper

65 100

67 54.0 0.0 105.2



Abundance Ion 64.95 (64.65 to 65.65): VDC  
Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.21 min Scan# 689

Delta R.T. -0.00 min

Lab File: VD061217.D

Acq: 20 Mar 2019 19:26

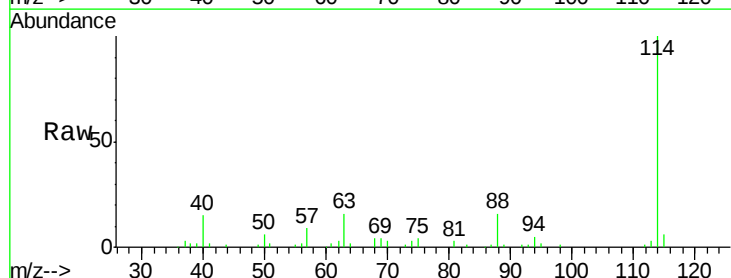
Tgt Ion: 114 Resp: 194096

Ion Ratio Lower Upper

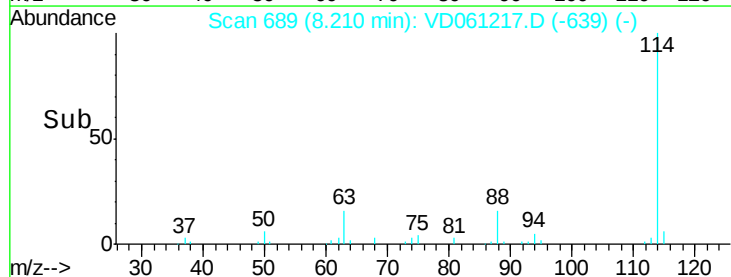
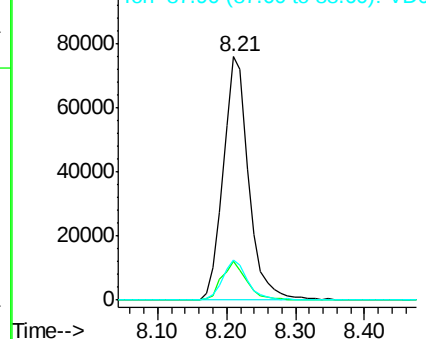
114 100

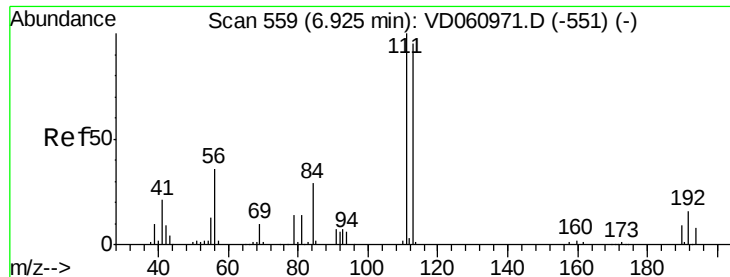
63 15.7 0.0 31.4

88 16.3 0.0 33.0



Abundance Ion 114.00 (113.70 to 114.70): VDC  
Ion 62.95 (62.65 to 63.65): VDC  
Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.92 min Scan# 558

Delta R.T. -0.00 min

Lab File: VD061217.D

Acq: 20 Mar 2019 19:26

Instrument :  
MSVOA\_D  
ClientSampleId :

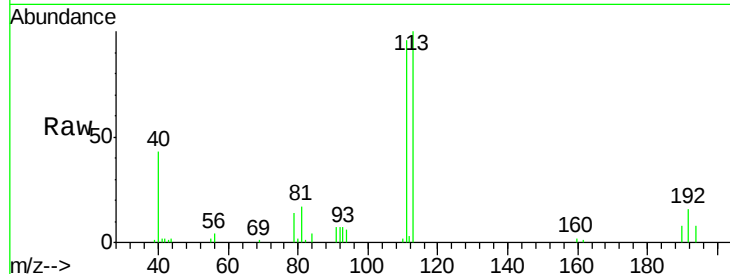
Tot Ion:113 Resp: 85194

Ion Ratio Lower Upper

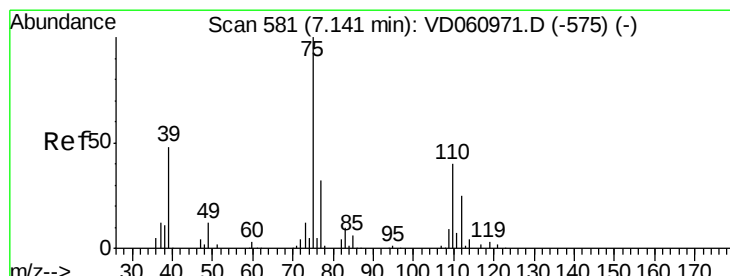
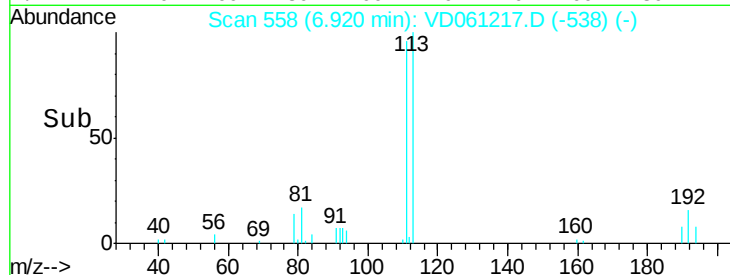
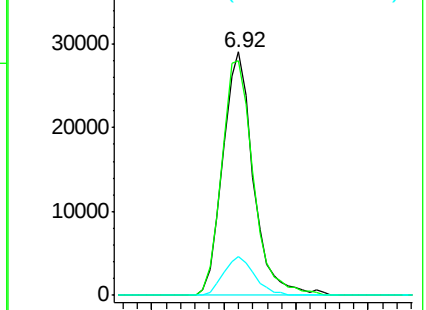
113 100

111 96.5 84.2 126.4

192 15.8 13.1 19.7



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: 3.973 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.10 min

Lab File: VD061217.D

Acq: 20 Mar 2019 19:26

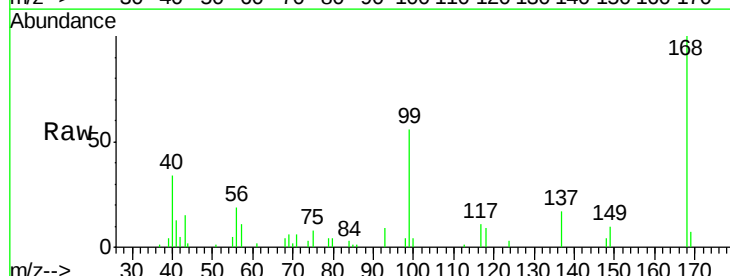
Tgt Ion: 75 Resp: 6647

Ion Ratio Lower Upper

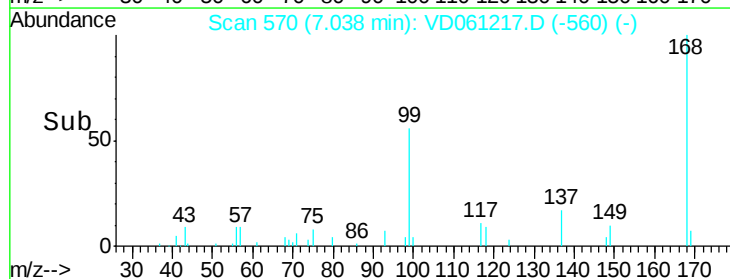
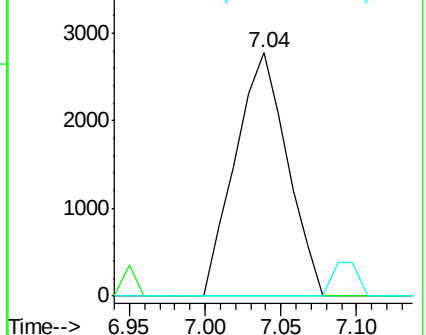
75 100

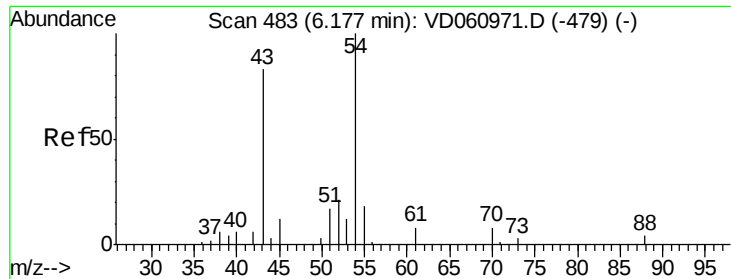
110 0.0 19.7 59.1#

77 0.0 24.7 37.1#



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

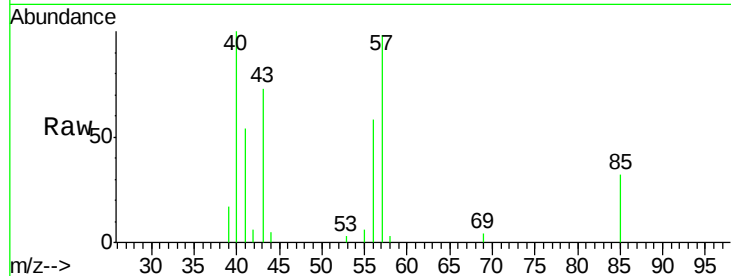




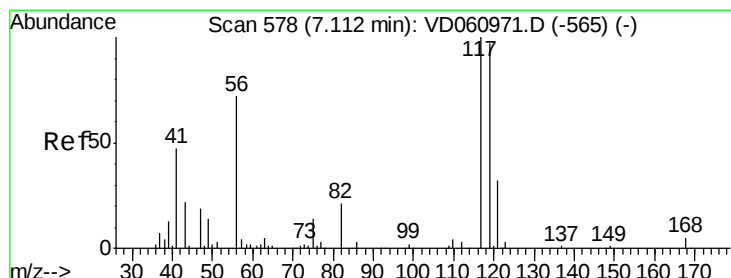
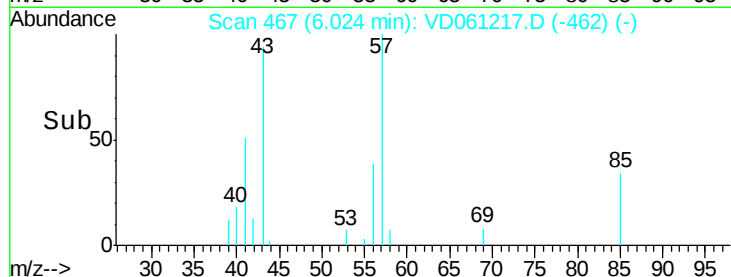
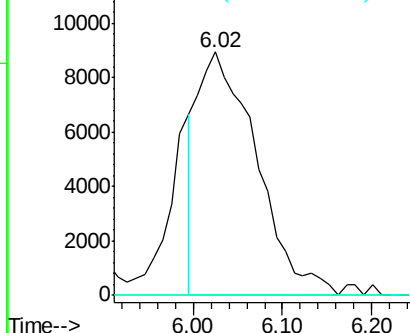
#37  
Ethyl Acetate  
Concen: 52.032 ug/l  
RT: 6.02 min Scan# 467  
Delta R.T. -0.15 min  
Lab File: VD061217.D  
Acq: 20 Mar 2019 19:26

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion: 43 Resp: 40851  
Ion Ratio Lower Upper  
43 100  
61 0.0 13.7 20.5#  
70 0.0 7.1 10.7#

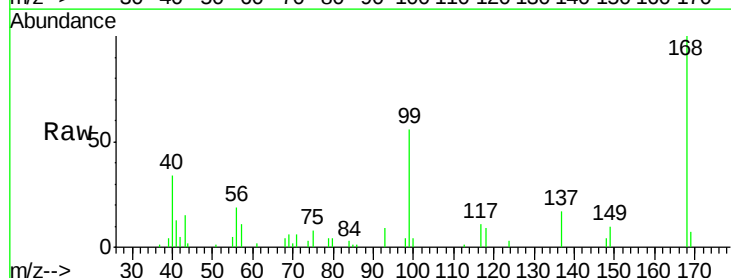


Abundance Ion 42.95 (42.65 to 43.65): VDC  
Ion 60.95 (60.65 to 61.65): VDC  
Ion 70.00 (69.70 to 70.70): VDC

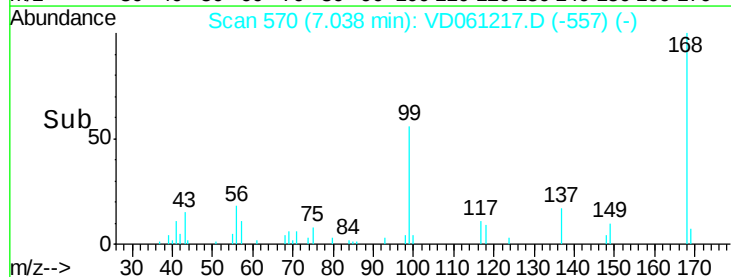
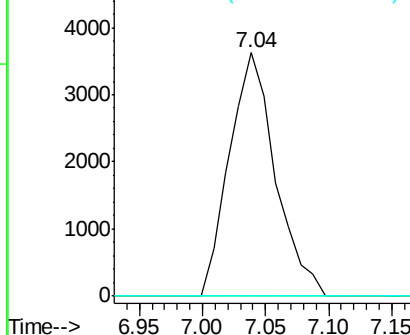


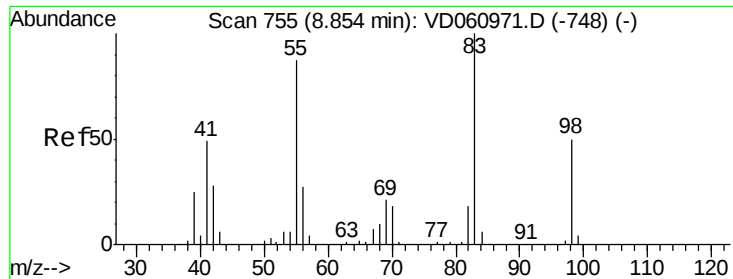
#38  
Carbon Tetrachloride  
Concen: 4.971 ug/l  
RT: 7.04 min Scan# 570  
Delta R.T. -0.07 min  
Lab File: VD061217.D  
Acq: 20 Mar 2019 19:26

Tgt Ion: 117 Resp: 9161  
Ion Ratio Lower Upper  
117 100  
119 0.0 77.8 116.8#  
121 0.0 25.3 37.9#



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

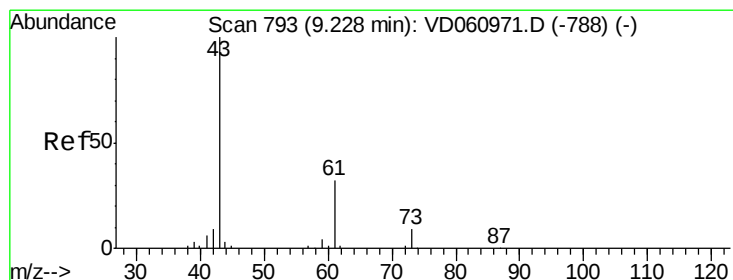
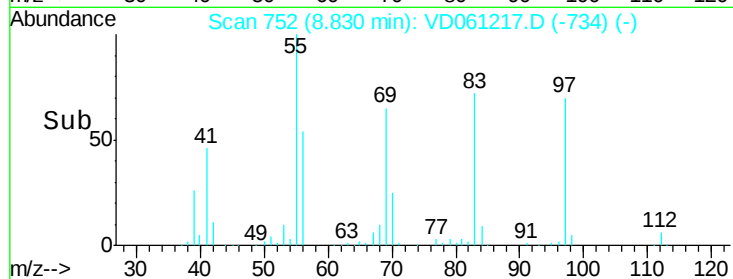
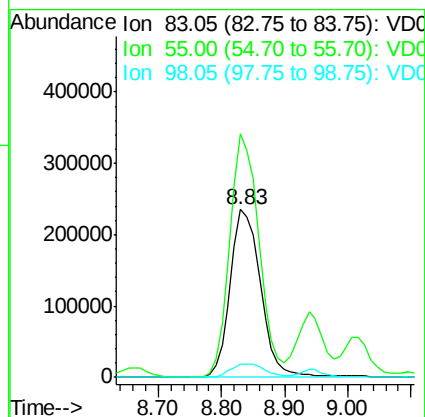
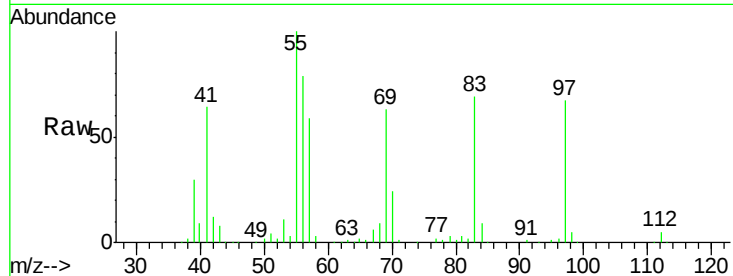




#39  
Methylcyclohexane  
Concen: 453.286 ug/l  
RT: 8.83 min Scan# 752  
Delta R.T. -0.02 min  
Lab File: VD061217.D  
Acq: 20 Mar 2019 19:26

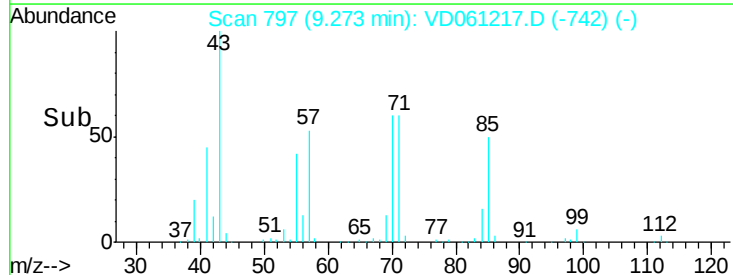
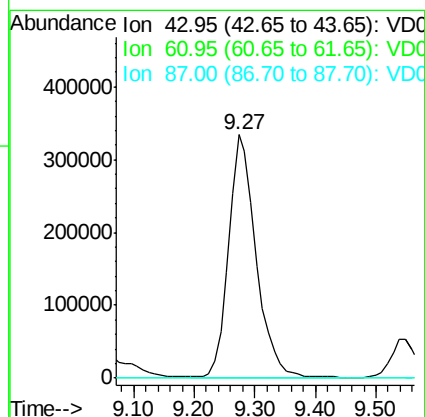
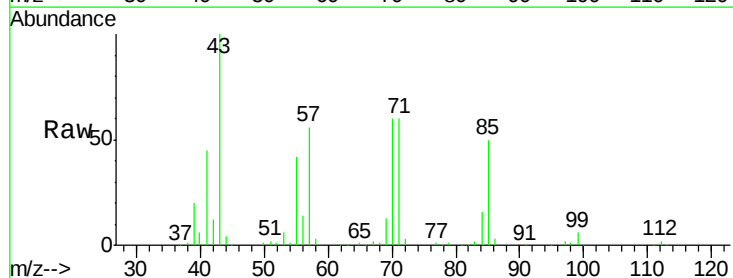
Instrument :  
MSVOA\_D  
ClientSampled :

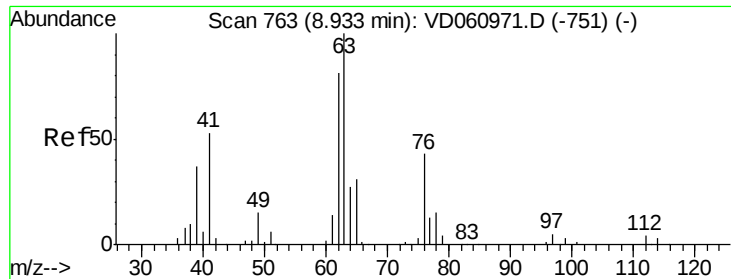
Tot Ion: 83 Resp: 786384  
Ion Ratio Lower Upper  
83 100  
55 144.9 69.6 104.4#  
98 7.7 40.0 60.0#



#43  
Isopropyl Acetate  
Concen: 961.096 ug/l  
RT: 9.27 min Scan# 797  
Delta R.T. 0.04 min  
Lab File: VD061217.D  
Acq: 20 Mar 2019 19:26

Tgt Ion: 43 Resp: 1045111  
Ion Ratio Lower Upper  
43 100  
61 0.0 25.6 38.4#  
87 0.0 0.2 0.4#





#45

1,2-Dichloropropane

Concen: 4.223 ug/l

RT: 8.94 min Scan# 763

Delta R.T. 0.01 min

Lab File: VD061217.D

Acq: 20 Mar 2019 19:26

Instrument :

MSVOA\_D

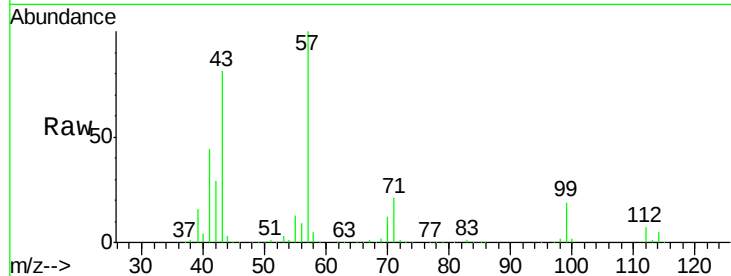
ClientSampleId :

Tot Ion: 63 Resp: 4638

Ion Ratio Lower Upper

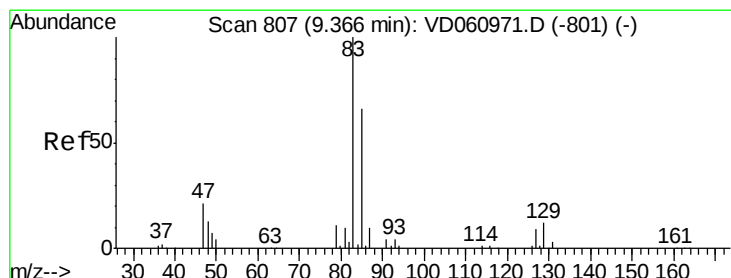
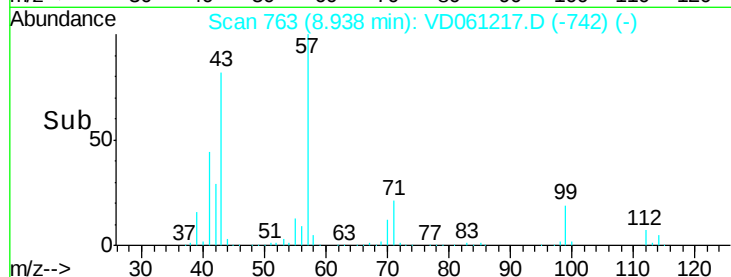
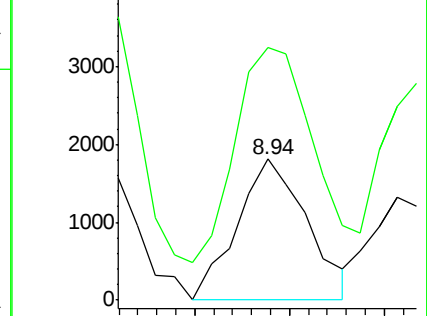
63 100

65 179.8 24.8 37.2#



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC



#47

Bromodichloromethane

Concen: 64.236 ug/l

RT: 9.31 min Scan# 801

Delta R.T. -0.05 min

Lab File: VD061217.D

Acq: 20 Mar 2019 19:26

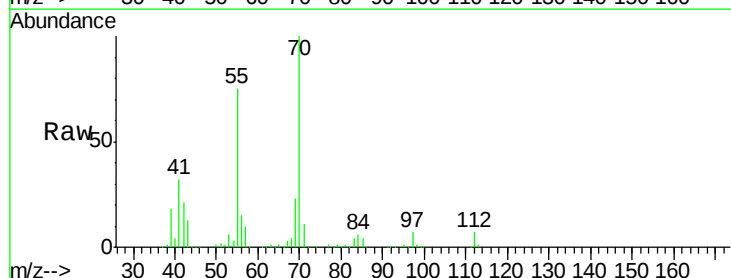
Tgt Ion: 83 Resp: 100990

Ion Ratio Lower Upper

83 100

85 97.4 52.5 78.7#

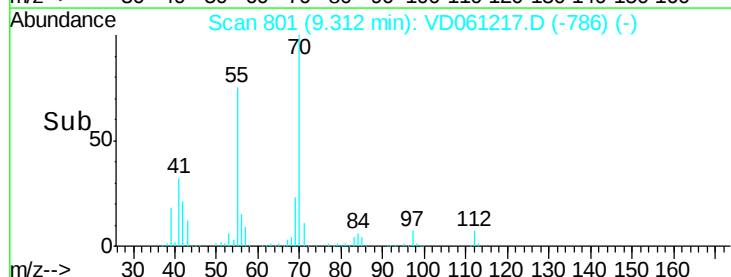
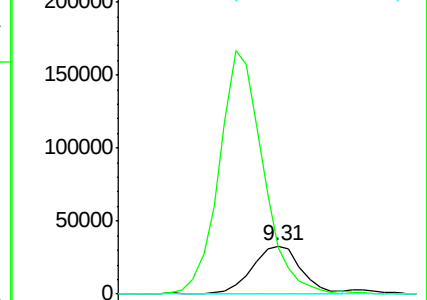
127 0.0 7.5 11.3#

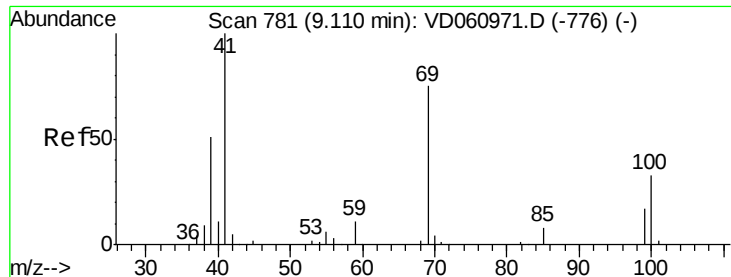


Abundance Ion 82.85 (82.55 to 83.55): VDC

Ion 84.95 (84.65 to 85.65): VDC

Ion 126.80 (126.50 to 127.50): V

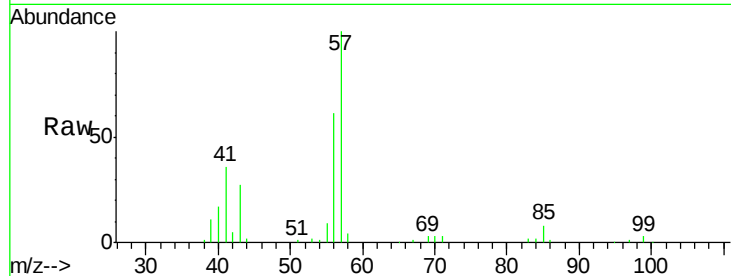




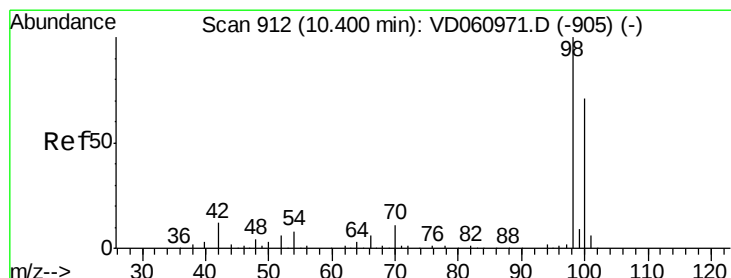
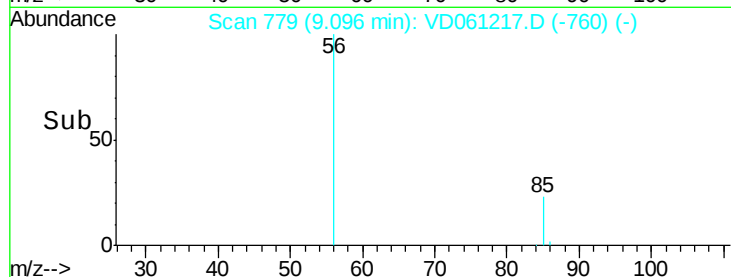
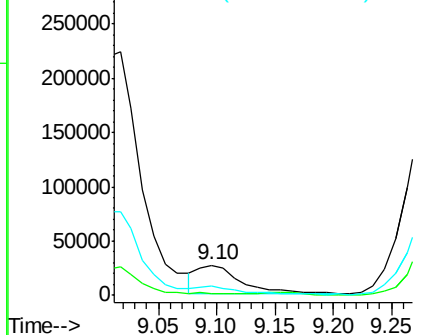
#48  
Methyl methacrylate  
Concen: 106.791 ug/l  
RT: 9.10 min Scan# 779  
Delta R.T. -0.01 min  
Lab File: VD061217.D  
Acq: 20 Mar 2019 19:26

Instrument :  
MSVOA\_D  
ClientSampleID :

Tot Ion: 41 Resp: 65383  
Ion Ratio Lower Upper  
41 100  
69 7.7 59.9 89.9#  
39 30.4 40.9 61.3#

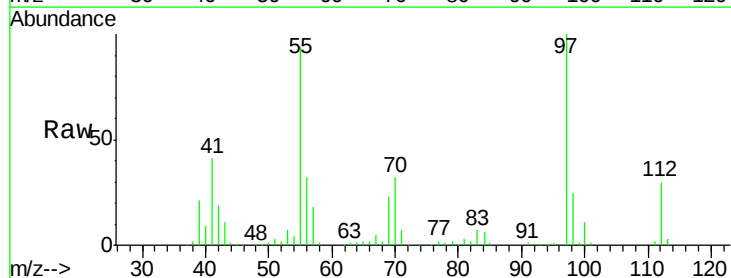


Abundance Ion 40.95 (40.65 to 41.65): VDC  
Ion 69.00 (68.70 to 69.70): VDC  
Ion 38.95 (38.65 to 39.65): VDC

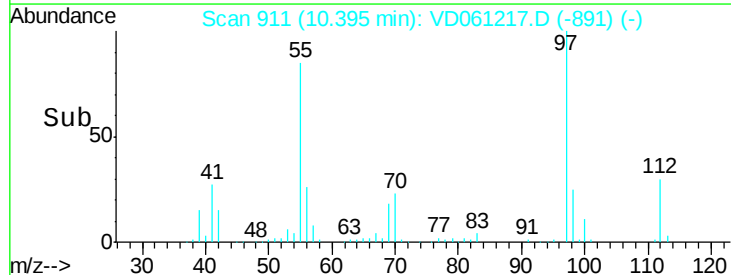
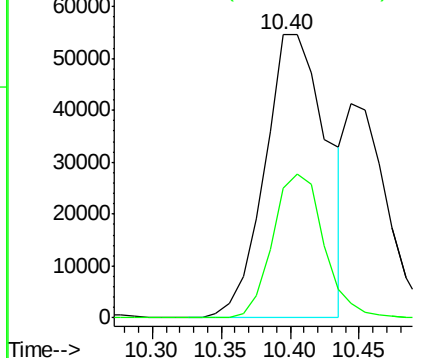


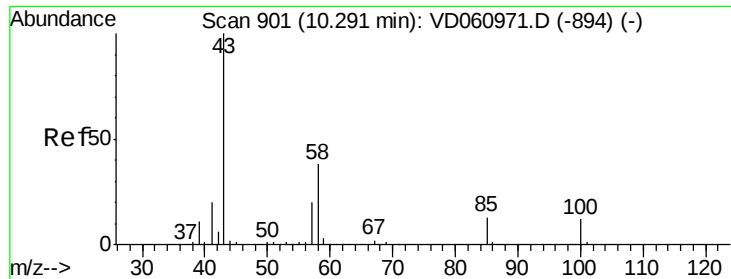
#50  
Toluene-d8  
Concen: N.D. ug/l  
RT: 10.40 min Scan# 911  
Delta R.T. -0.00 min  
Lab File: VD061217.D  
Acq: 20 Mar 2019 19:26

Tgt Ion: 98 Resp: 171041  
Ion Ratio Lower Upper  
98 100  
100 45.9 57.4 86.2#



Abundance Ion 98.05 (97.75 to 98.75): VDC  
Ion 100.05 (99.75 to 100.75): VDC

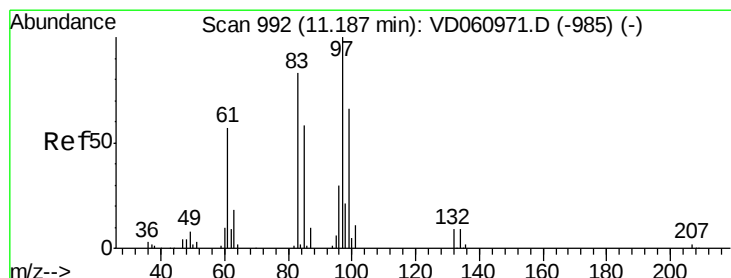
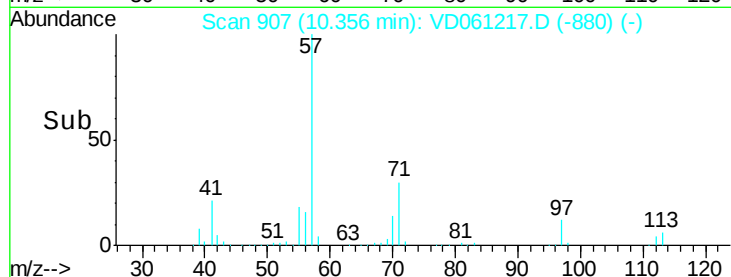
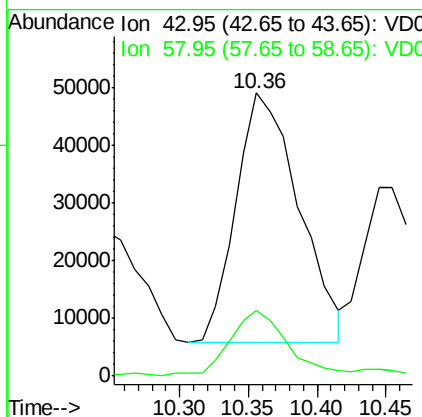
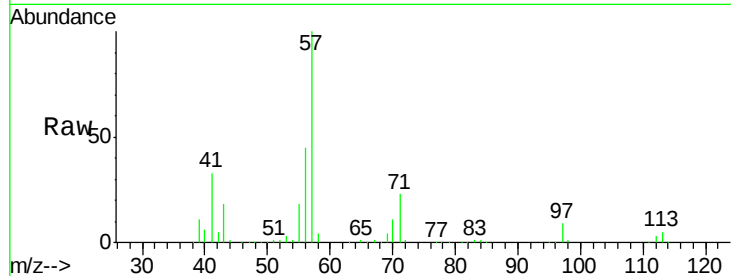




#51  
 4-Methyl-2-Pentanone  
 Concen: 205.484 ug/l  
 RT: 10.36 min Scan# 907  
 Delta R.T. 0.06 min  
 Lab File: VD061217.D  
 Acq: 20 Mar 2019 19:26

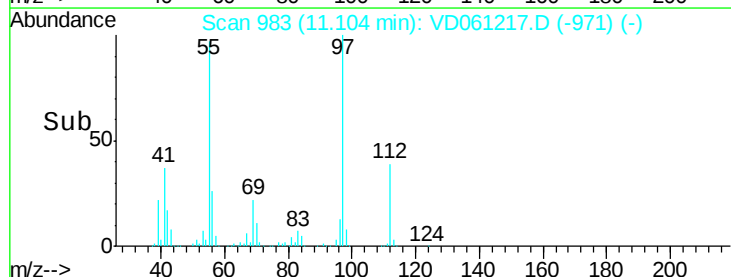
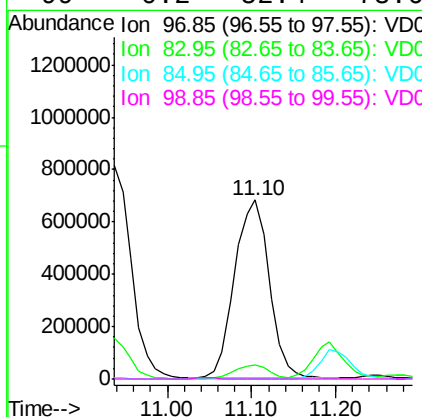
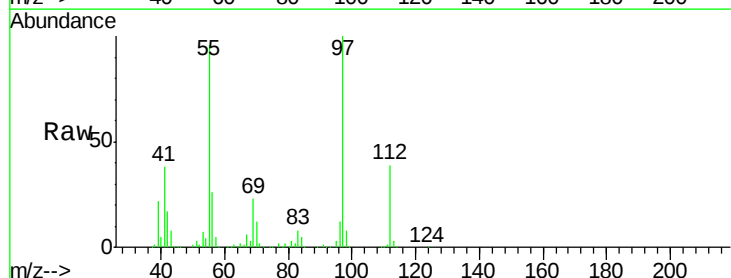
Instrument :  
 MSVOA\_D  
 ClientSampleId :

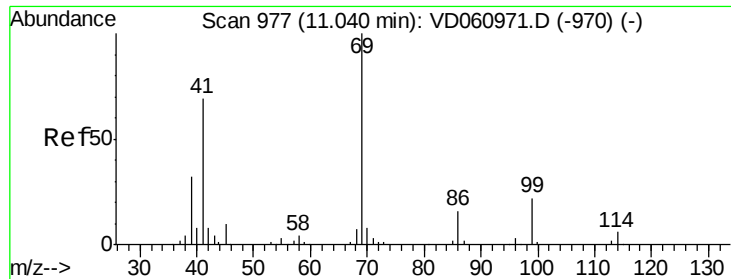
Tot Ion: 43 Resp: 136889  
 Ion Ratio Lower Upper  
 43 100  
 58 23.4 30.2 45.2#



#55  
 1,1,2-Trichloroethane  
 Concen: 2257.329 ug/l  
 RT: 11.10 min Scan# 983  
 Delta R.T. -0.08 min  
 Lab File: VD061217.D  
 Acq: 20 Mar 2019 19:26

Tgt Ion: 97 Resp: 1954261  
 Ion Ratio Lower Upper  
 97 100  
 83 7.9 66.6 100.0#  
 85 0.3 46.4 69.6#  
 99 0.2 52.4 78.6#

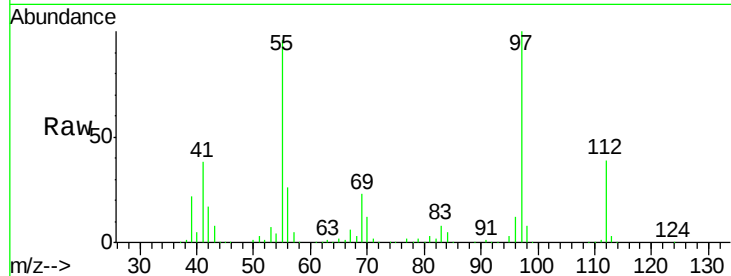




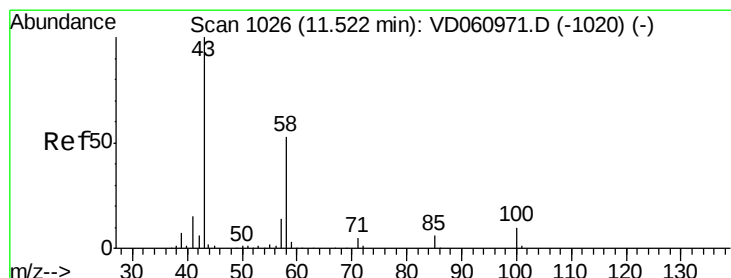
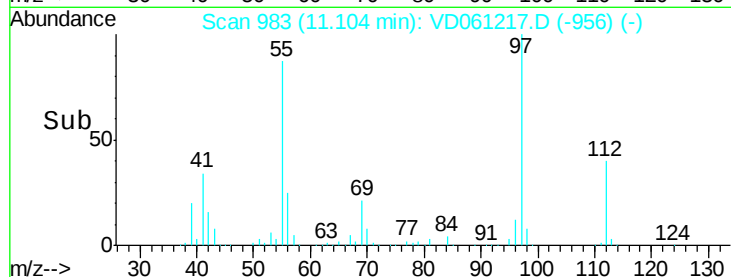
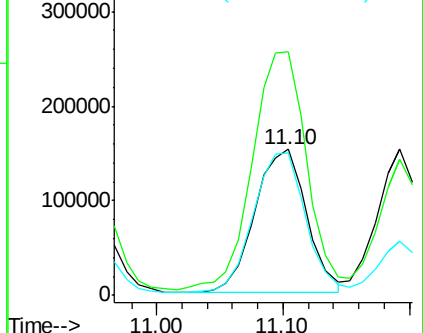
#56  
Ethyl methacrylate  
Concen: 474.536 ug/l  
RT: 11.10 min Scan# 983  
Delta R.T. 0.06 min  
Lab File: VD061217.D  
Acq: 20 Mar 2019 19:26

Instrument :  
MSVOA\_D  
ClientSampled :

Tot Ion: 69 Resp: 430016  
Ion Ratio Lower Upper  
69 100  
41 166.9 55.5 83.3#  
39 97.4 26.2 39.2#

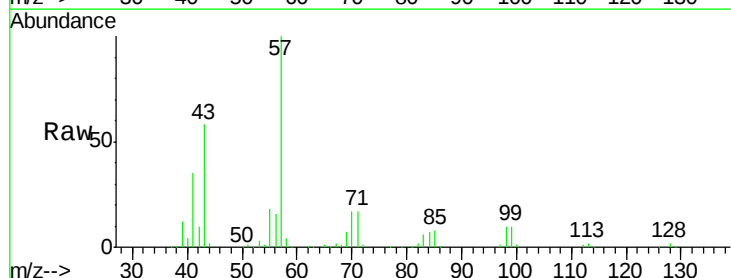


Abundance Ion 69.00 (68.70 to 69.70): VDC  
Ion 41.05 (40.75 to 41.75): VDC  
Ion 38.95 (38.65 to 39.65): VDC

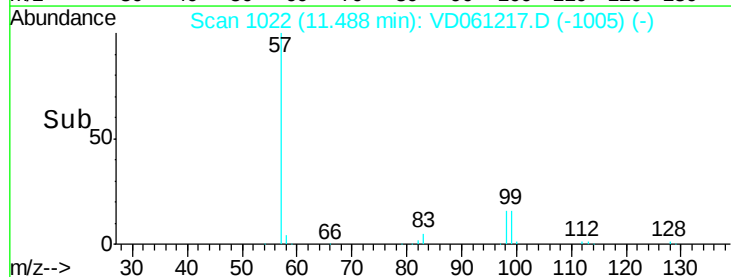
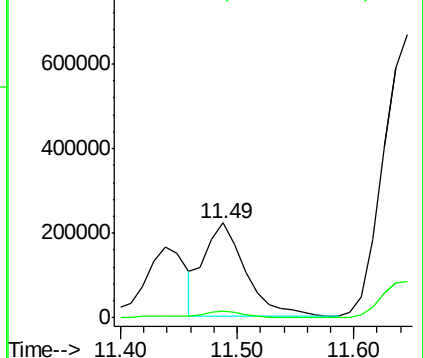


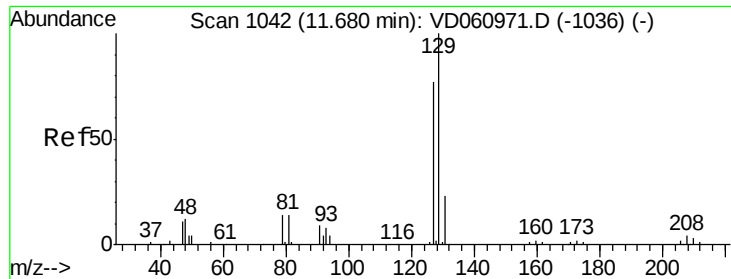
#59  
2-Hexanone  
Concen: 1096.990 ug/l  
RT: 11.49 min Scan# 1022  
Delta R.T. -0.03 min  
Lab File: VD061217.D  
Acq: 20 Mar 2019 19:26

Tgt Ion: 43 Resp: 534571  
Ion Ratio Lower Upper  
43 100  
58 7.6 26.5 79.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC  
Ion 57.95 (57.65 to 58.65): VDC

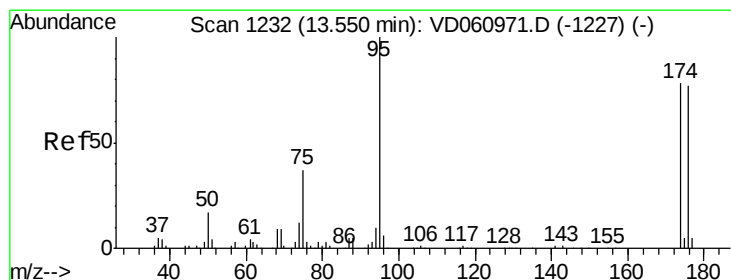
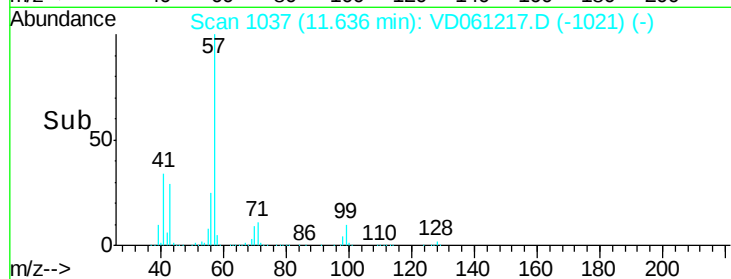
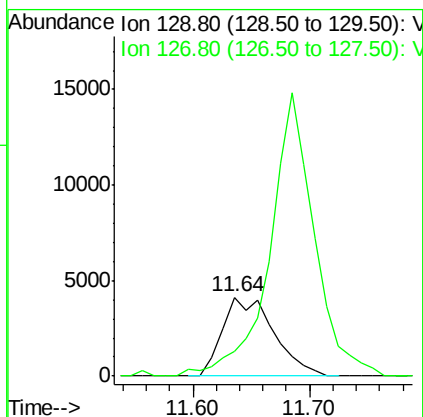
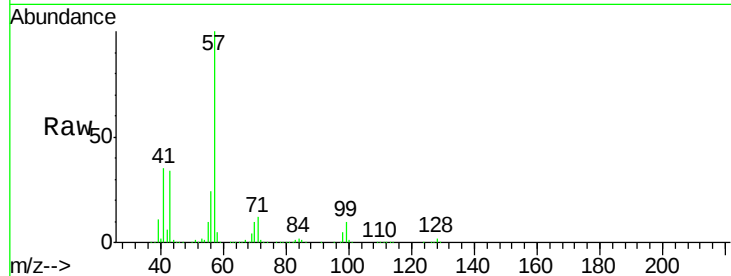




#60  
Dibromochloromethane  
Concen: 9.903 ug/l  
RT: 11.64 min Scan# 1037  
Delta R.T. -0.04 min  
Lab File: VD061217.D  
Acq: 20 Mar 2019 19:26

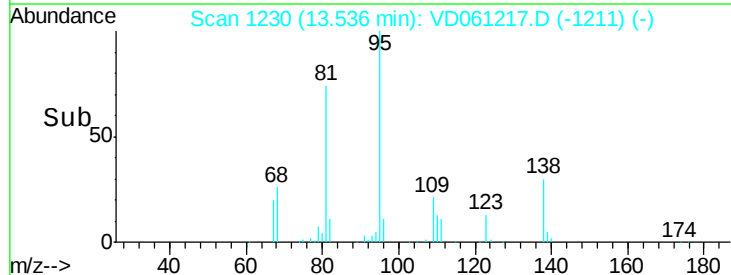
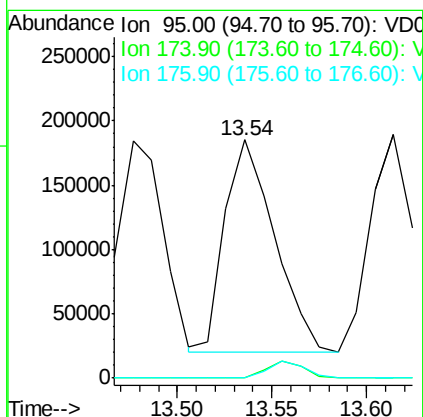
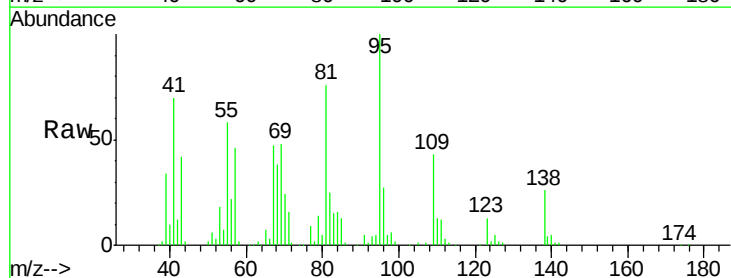
Instrument :  
MSVOA\_D  
ClientSampleId :

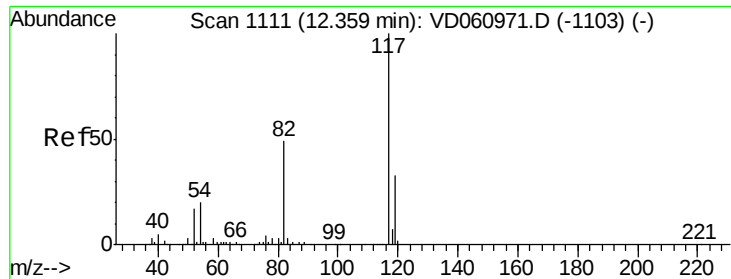
Tot Ion:129 Resp: 12618  
Ion Ratio Lower Upper  
129 100  
127 30.9 38.3 114.9#



#62  
4-Bromofluorobenzene  
Concen: Below ug/l  
RT: 13.54 min Scan# 1230  
Delta R.T. -0.01 min  
Lab File: VD061217.D  
Acq: 20 Mar 2019 19:26

Tgt Ion: 95 Resp: 301746  
Ion Ratio Lower Upper  
95 100  
174 0.2 0.0 155.6  
176 0.4 0.0 153.8

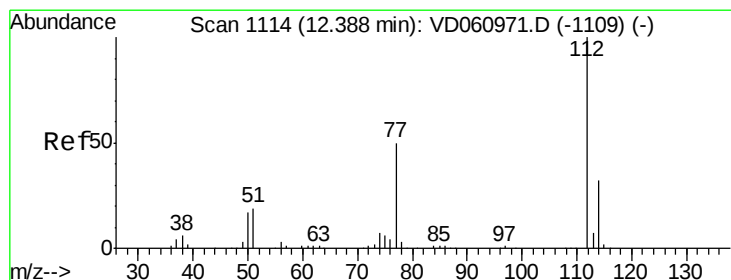
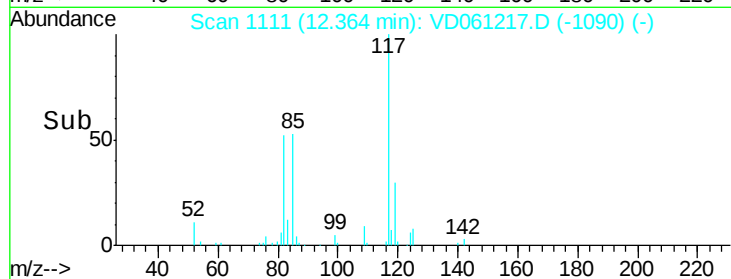
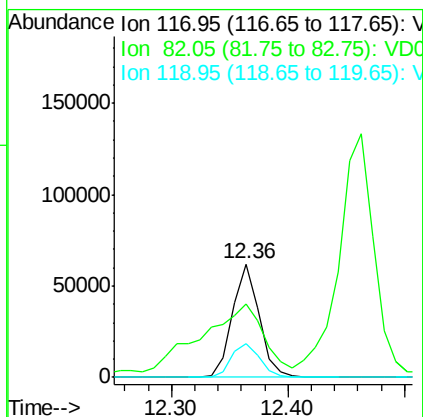
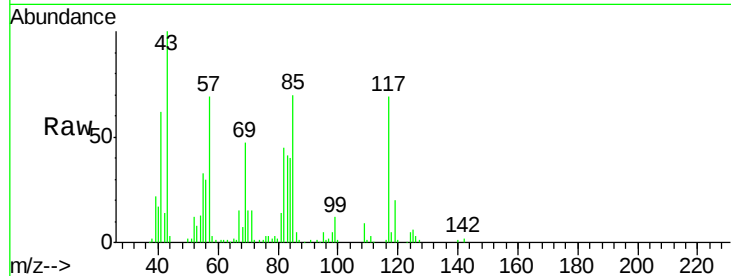




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 12.36 min Scan# 1111  
Delta R.T. 0.01 min  
Lab File: VD061217.D  
Acq: 20 Mar 2019 19:26

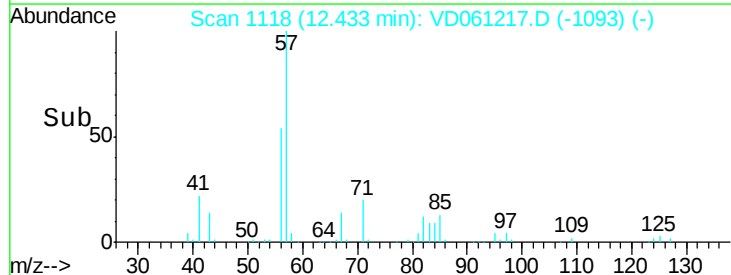
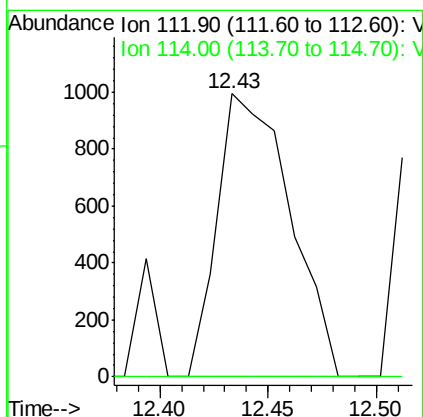
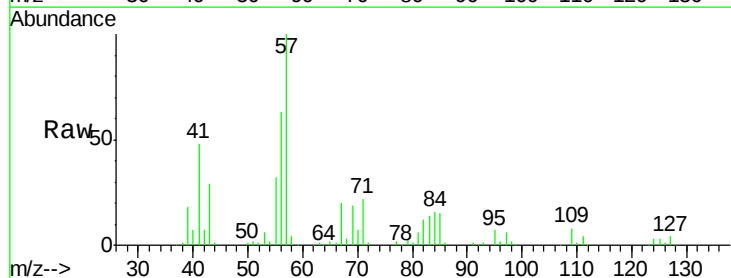
Instrument :  
MSVOA\_D  
ClientSampleId :

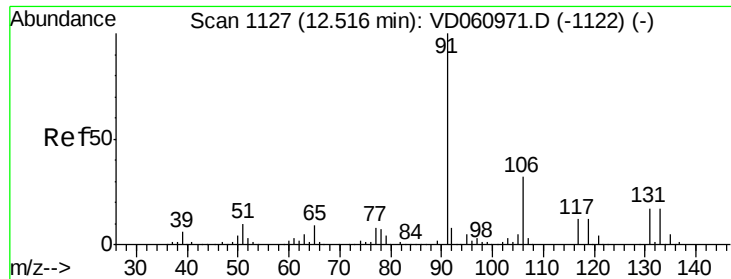
Tot Ion:117 Resp: 98750  
Ion Ratio Lower Upper  
117 100  
82 64.7 38.9 58.3#  
119 29.5 26.6 39.8



#65  
Chlorobenzene  
Concen: 1.206 ug/l  
RT: 12.43 min Scan# 1118  
Delta R.T. 0.04 min  
Lab File: VD061217.D  
Acq: 20 Mar 2019 19:26

Tgt Ion:112 Resp: 2335  
Ion Ratio Lower Upper  
112 100  
114 0.0 26.0 39.0#

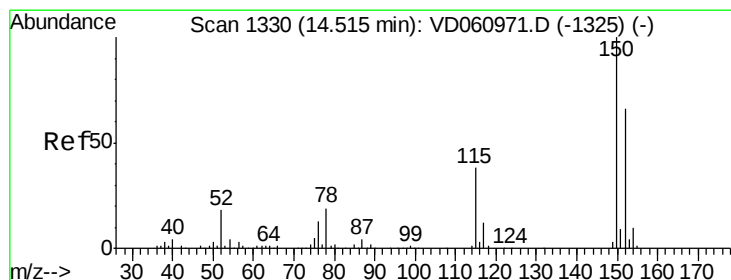
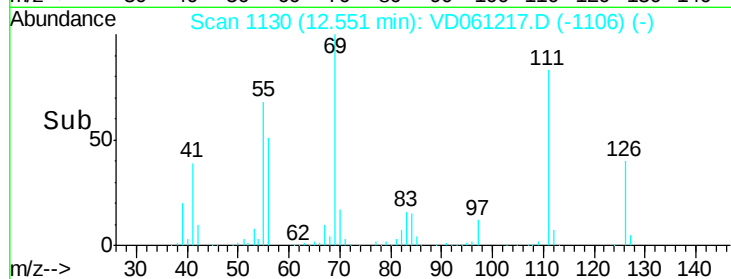
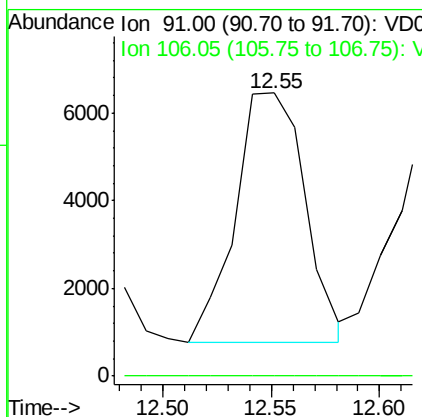
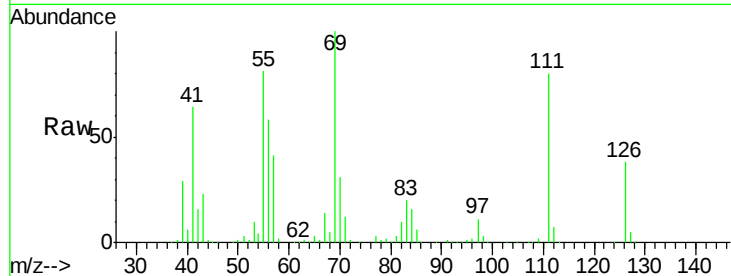




#67  
Ethyl Benzene  
Concen: 4.431 ug/l  
RT: 12.55 min Scan# 1130  
Delta R.T. 0.03 min  
Lab File: VD061217.D  
Acq: 20 Mar 2019 19:26

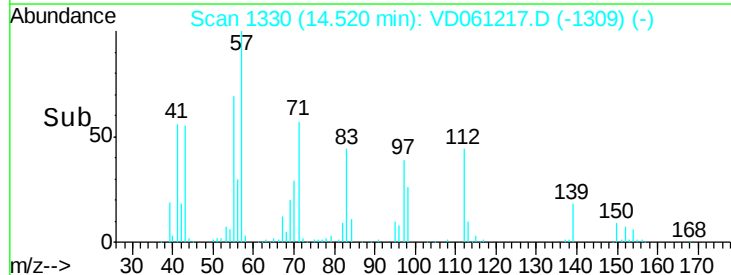
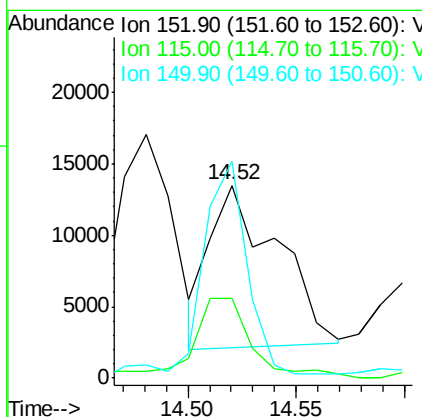
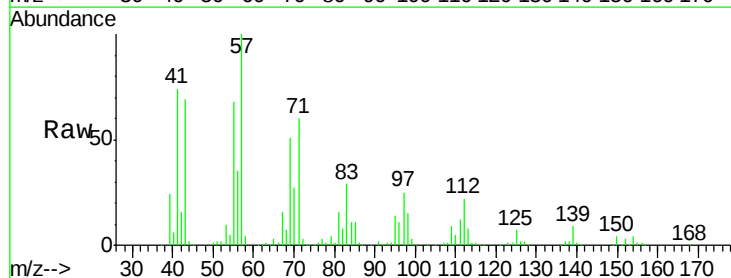
Instrument :  
MSVOA\_D  
ClientSampled :

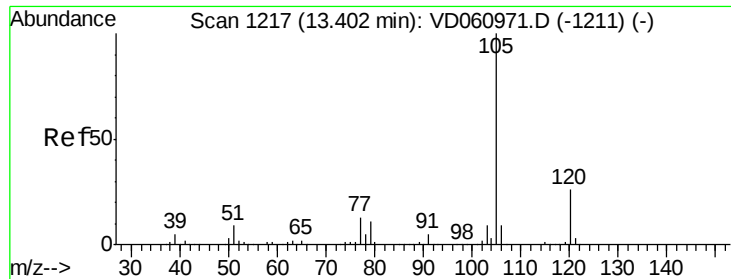
Tot Ion: 91 Resp: 12771  
Ion Ratio Lower Upper  
91 100  
106 0.0 25.7 38.5#



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 14.52 min Scan# 1330  
Delta R.T. 0.01 min  
Lab File: VD061217.D  
Acq: 20 Mar 2019 19:26

Tgt Ion: 152 Resp: 24819  
Ion Ratio Lower Upper  
152 100  
115 41.6 28.6 85.9  
150 112.7 0.0 310.6





#73

Isopropylbenzene

Concen: 2.492 ug/l

RT: 13.41 min Scan# 1217

Delta R.T. 0.01 min

Lab File: VD061217.D

Acq: 20 Mar 2019 19:26

Instrument :

MSVOA\_D

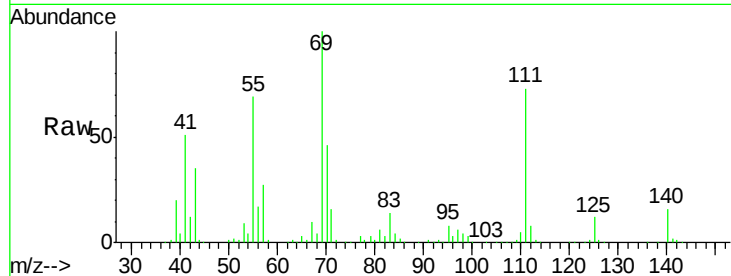
ClientSampleId :

Tot Ion:105 Resp: 4457

Ion Ratio Lower Upper

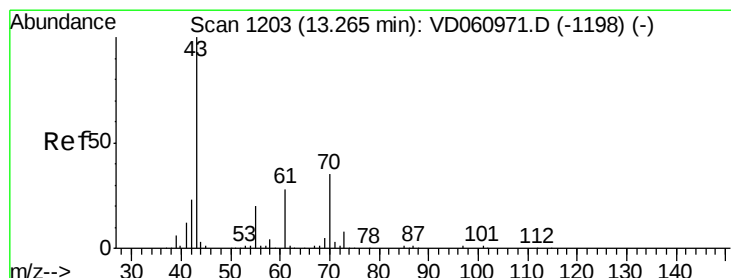
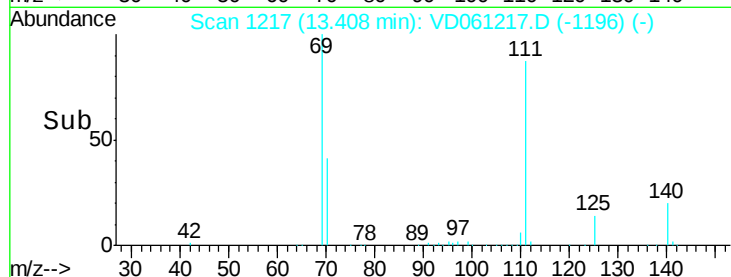
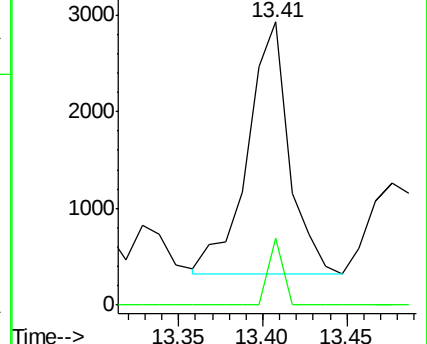
105 100

120 23.9 12.8 38.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 2601.700 ug/l

RT: 13.28 min Scan# 1204

Delta R.T. 0.02 min

Lab File: VD061217.D

Acq: 20 Mar 2019 19:26

Tgt Ion: 43 Resp: 1310329

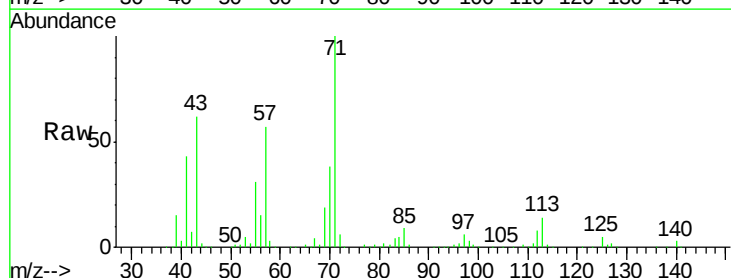
Ion Ratio Lower Upper

43 100

70 61.0 27.7 41.5#

55 50.6 16.2 24.2#

61 0.0 22.3 33.5#

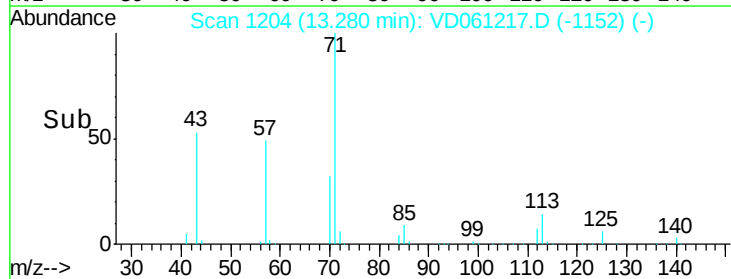
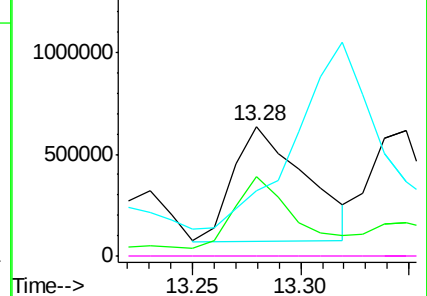


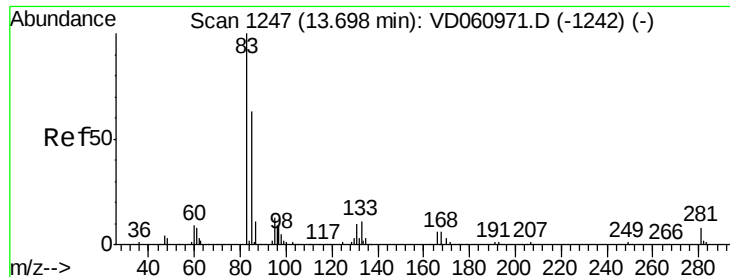
Abundance Ion 42.95 (42.65 to 43.65): VDC

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





#75

1,1,2,2-Tetrachloroethane

Concen: 1133.295 ug/l

RT: 13.71 min Scan# 1248

Delta R.T. 0.02 min

Lab File: VD061217.D

Acq: 20 Mar 2019 19:26

Instrument :

MSVOA\_D

ClientSampled :

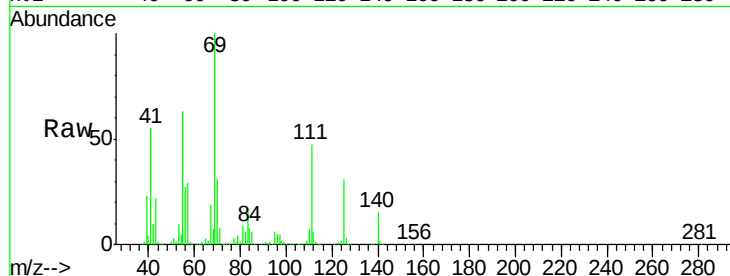
Tot Ion: 83 Resp: 395494

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.3#

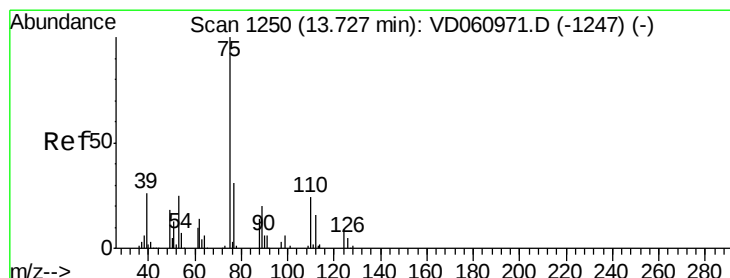
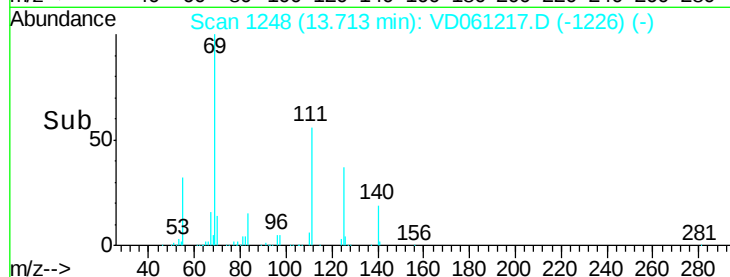
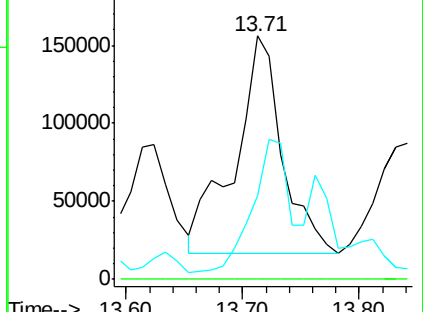
85 34.4 31.5 94.5



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC



#76

1,2,3-Trichloropropane

Concen: 2.770 ug/l

RT: 13.72 min Scan# 1249

Delta R.T. -0.00 min

Lab File: VD061217.D

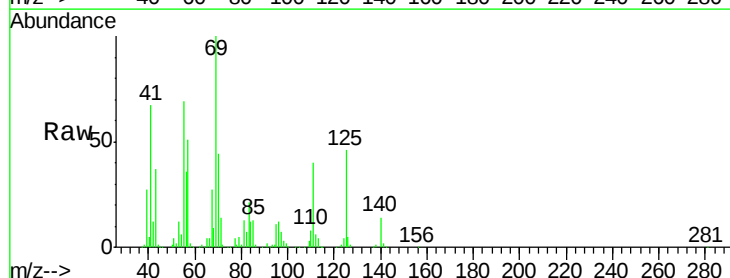
Acq: 20 Mar 2019 19:26

Tgt Ion: 75 Resp: 989

Ion Ratio Lower Upper

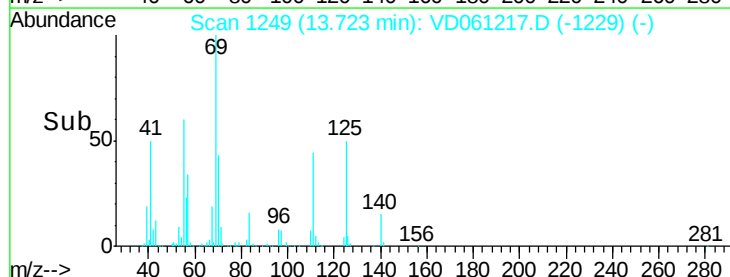
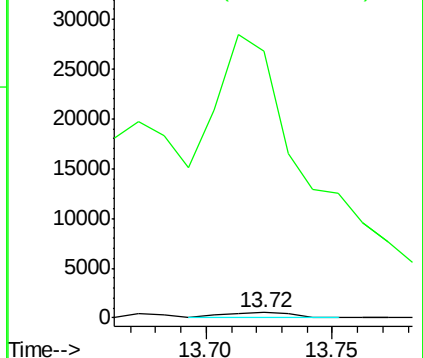
75 100

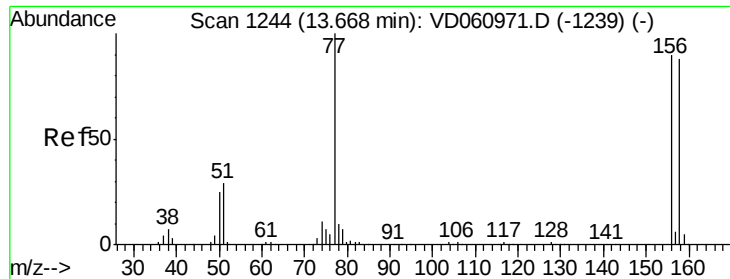
77 5323.8 16.6 49.7#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 6.014 ug/l

RT: 13.73 min Scan# 1250

Delta R.T. 0.06 min

Lab File: VD061217.D

Acq: 20 Mar 2019 19:26

Instrument :

MSVOA\_D

ClientSampleId :

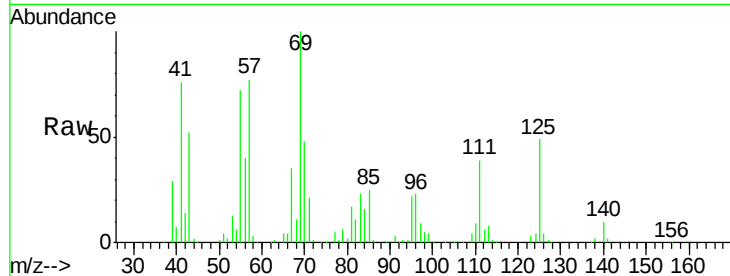
Tot Ion:156 Resp: 2746

Ion Ratio Lower Upper

156 100

77 1019.8 55.5 166.7#

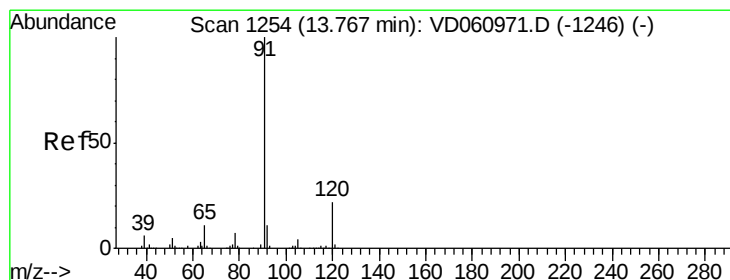
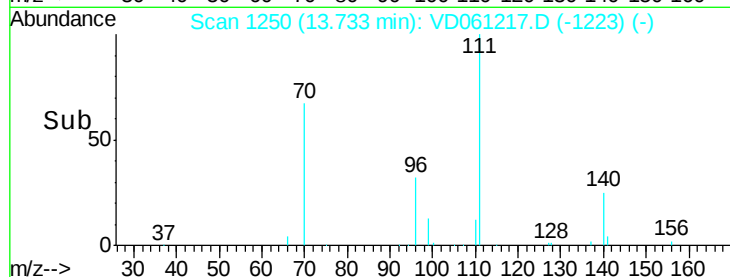
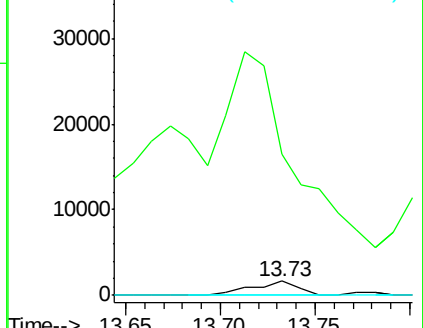
158 0.0 49.0 147.0#



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: 9.269 ug/l

RT: 13.72 min Scan# 1249

Delta R.T. -0.04 min

Lab File: VD061217.D

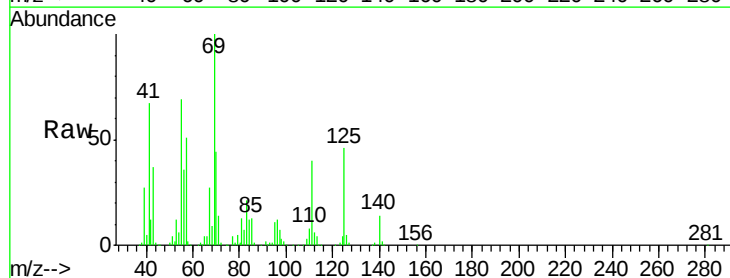
Acq: 20 Mar 2019 19:26

Tgt Ion: 91 Resp: 19408

Ion Ratio Lower Upper

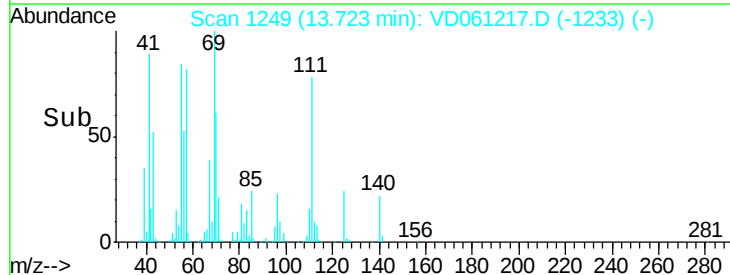
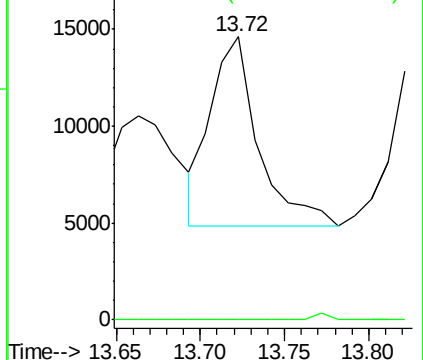
91 100

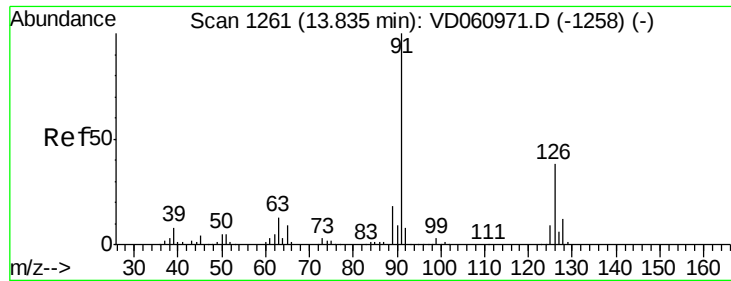
120 0.0 10.8 32.3#



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 13.849 ug/l

RT: 13.98 min Scan# 1275

Delta R.T. 0.14 min

Lab File: VD061217.D

Acq: 20 Mar 2019 19:26

Instrument :

MSVOA\_D

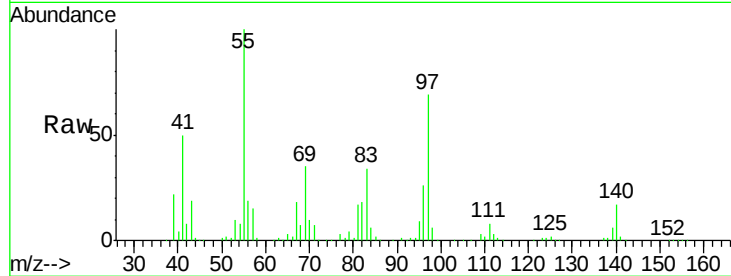
ClientSampled :

Tot Ion: 91 Resp: 15965

Ion Ratio Lower Upper

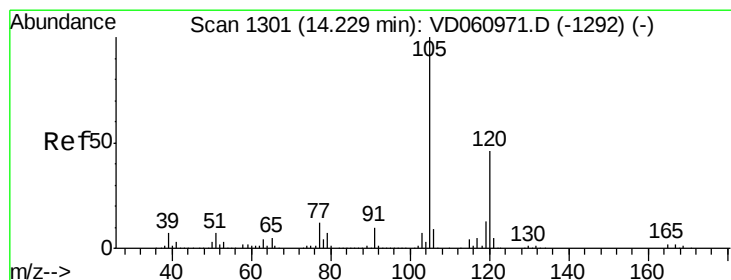
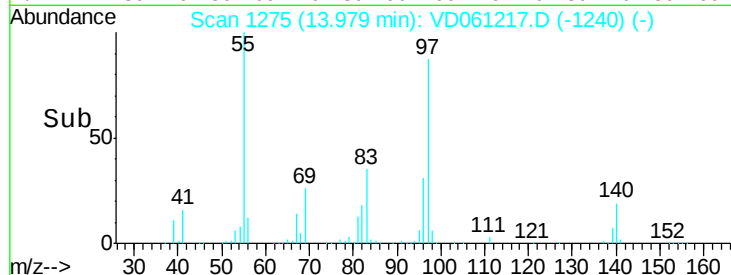
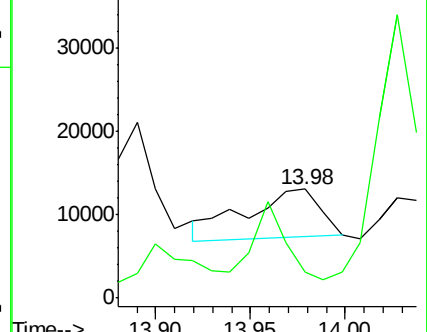
91 100

126 24.1 18.6 55.6



Abundance Ion 91.00 (90.70 to 91.70): VD061217.D (-1258) (-)

Ion 125.95 (125.65 to 126.65): VD061217.D (-1258) (-)



#80

1,3,5-Trimethylbenzene

Concen: 9.221 ug/l

RT: 14.23 min Scan# 1301

Delta R.T. 0.01 min

Lab File: VD061217.D

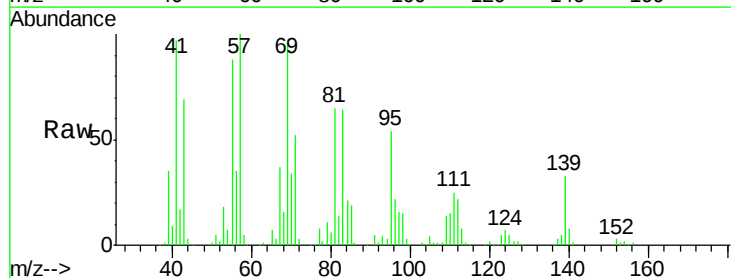
Acq: 20 Mar 2019 19:26

Tgt Ion: 105 Resp: 12521

Ion Ratio Lower Upper

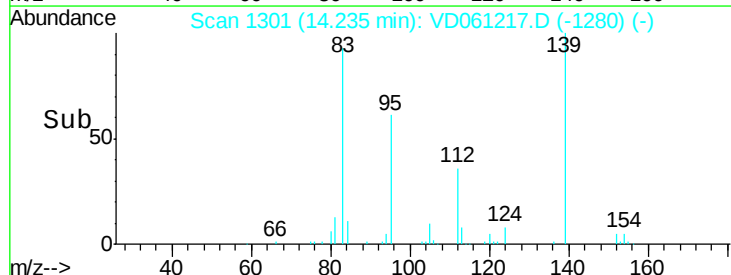
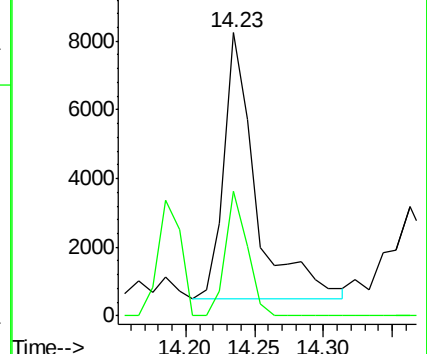
105 100

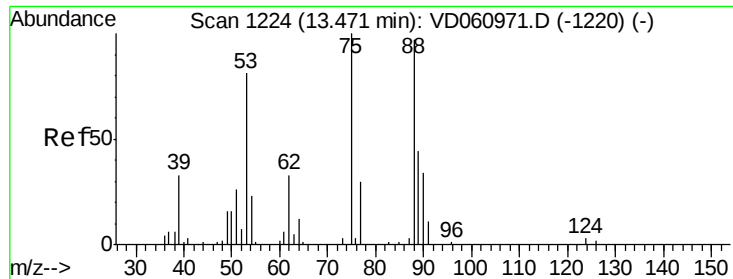
120 44.2 22.9 68.5



Abundance Ion 105.05 (104.75 to 105.75): VD061217.D (-1280) (-)

Ion 120.05 (119.75 to 120.75): VD061217.D (-1280) (-)

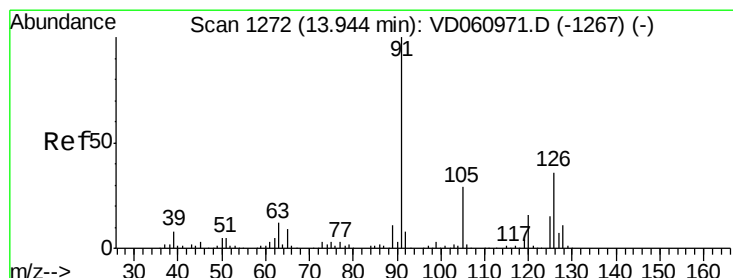
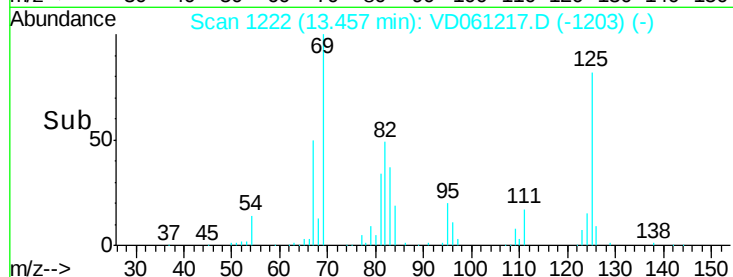
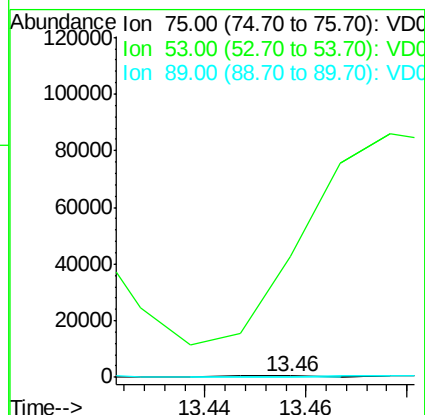
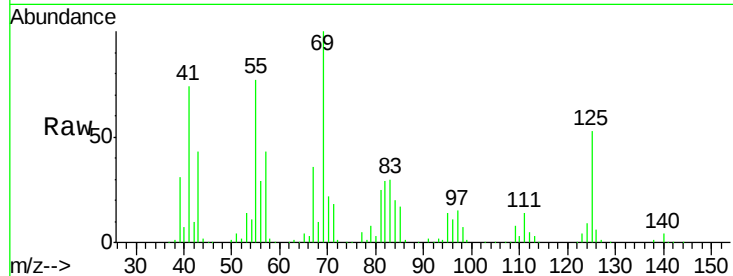




#81  
trans-1,4-Dichloro-2-butene  
Concen: 7.732 ug/l  
RT: 13.46 min Scan# 1222  
Delta R.T. -0.01 min  
Lab File: VD061217.D  
Acq: 20 Mar 2019 19:26

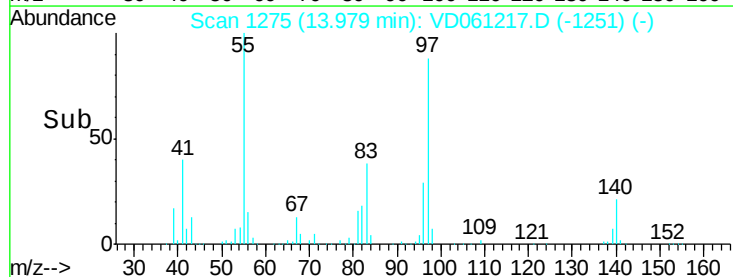
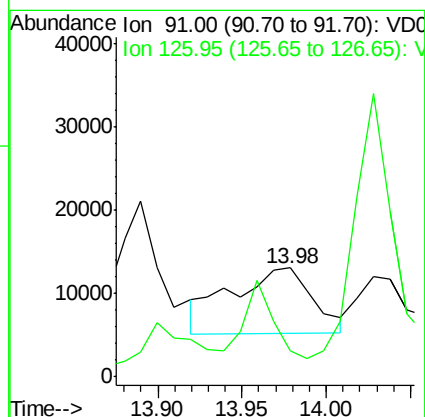
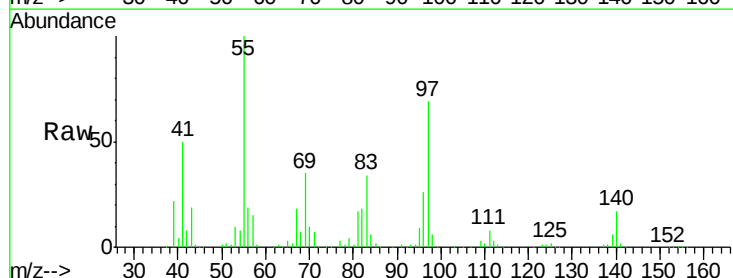
Instrument :  
MSVOA\_D  
ClientSampleId :

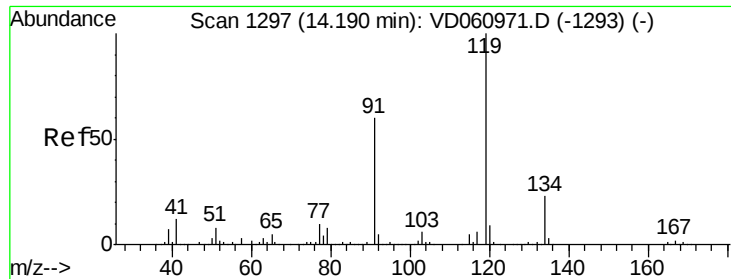
Tot Ion: 75 Resp: 814  
Ion Ratio Lower Upper  
75 100  
53 8114.7 64.4 96.6#  
89 69.2 34.8 52.2#



#82  
4-Chlorotoluene  
Concen: 19.279 ug/l  
RT: 13.98 min Scan# 1275  
Delta R.T. 0.04 min  
Lab File: VD061217.D  
Acq: 20 Mar 2019 19:26

Tgt Ion: 91 Resp: 26275  
Ion Ratio Lower Upper  
91 100  
126 24.1 18.0 54.0





#83

tert-Butylbenzene

Concen: 29.201 ug/l

RT: 14.19 min Scan# 1296

Delta R.T. -0.00 min

Lab File: VD061217.D

Acq: 20 Mar 2019 19:26

Instrument :

MSVOA\_D

ClientSampleId :

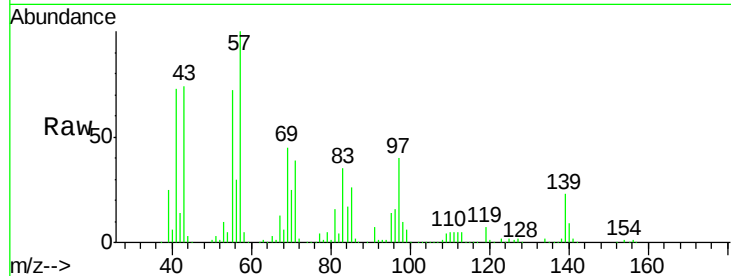
Tot Ion:119 Resp: 43394

Ion Ratio Lower Upper

119 100

91 92.4 30.1 90.3#

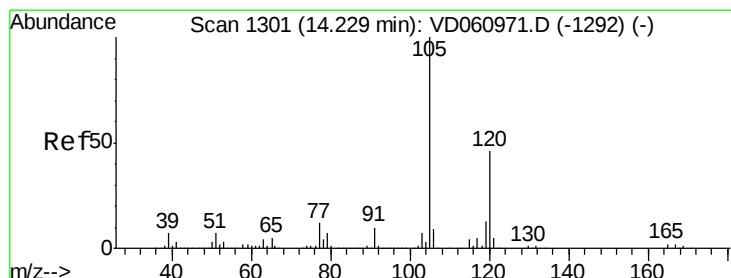
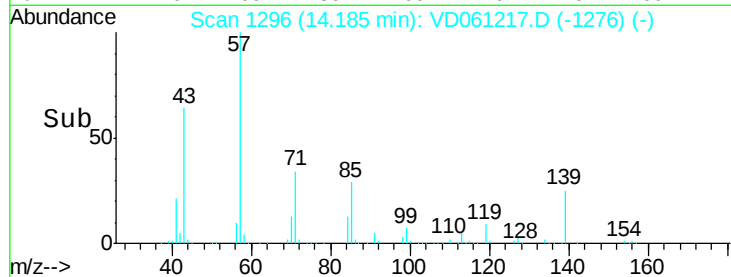
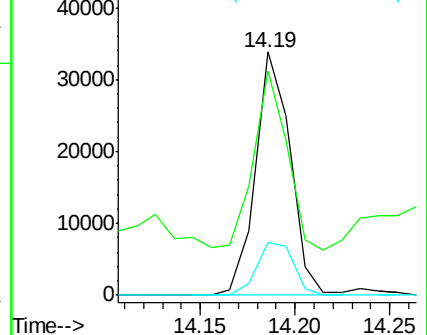
134 22.0 11.6 34.7



Abundance Ion 119.05 (118.75 to 119.75): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 9.221 ug/l

RT: 14.23 min Scan# 1301

Delta R.T. 0.01 min

Lab File: VD061217.D

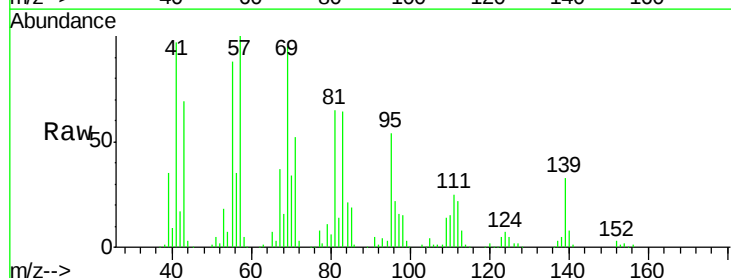
Acq: 20 Mar 2019 19:26

Tgt Ion:105 Resp: 12521

Ion Ratio Lower Upper

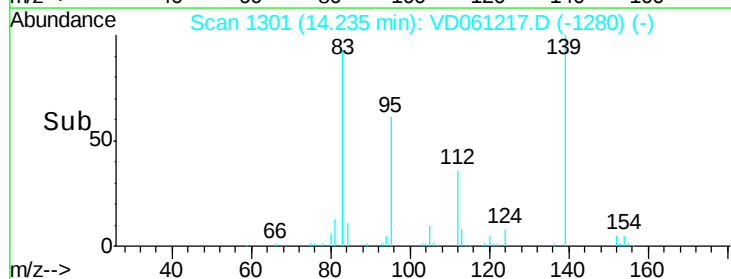
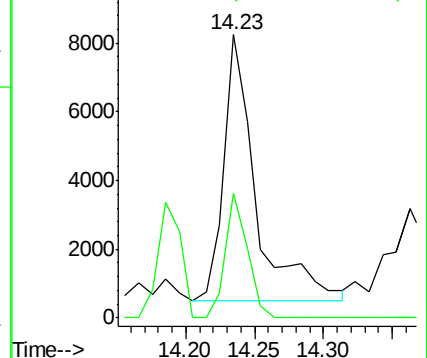
105 100

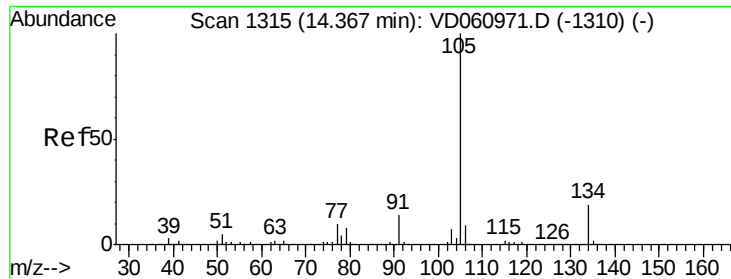
120 44.2 22.9 68.5



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

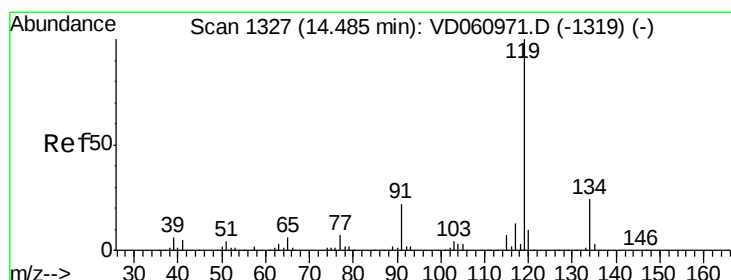
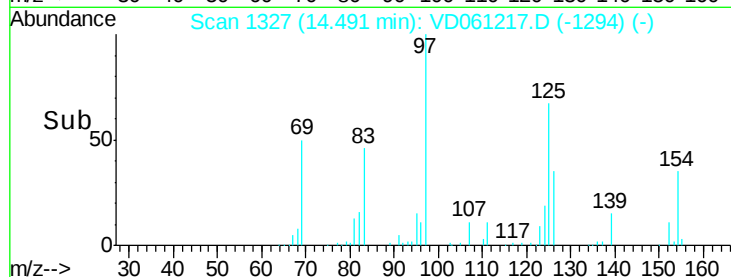
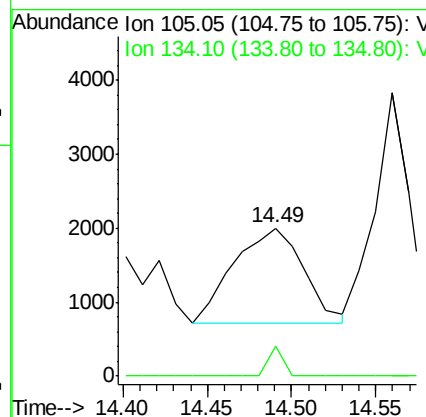
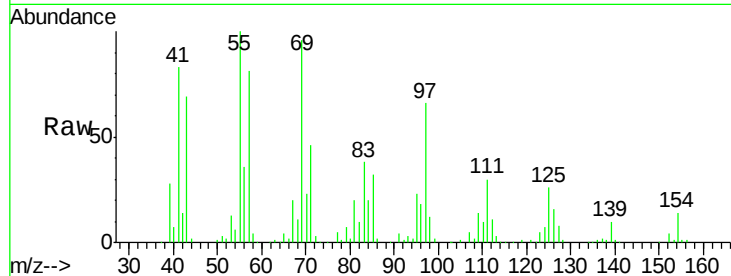




#85  
 sec-Butylbenzene  
 Concen: 2.030 ug/l  
 RT: 14.49 min Scan# 1327  
 Delta R.T. 0.12 min  
 Lab File: VD061217.D  
 Acq: 20 Mar 2019 19:26

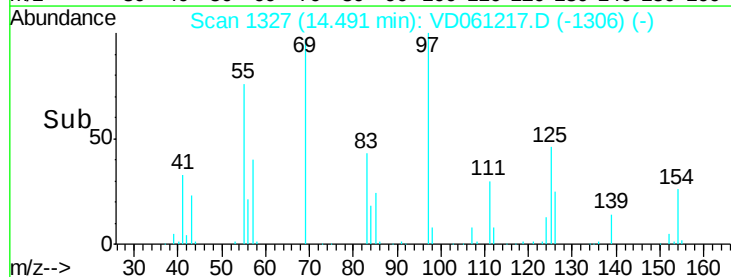
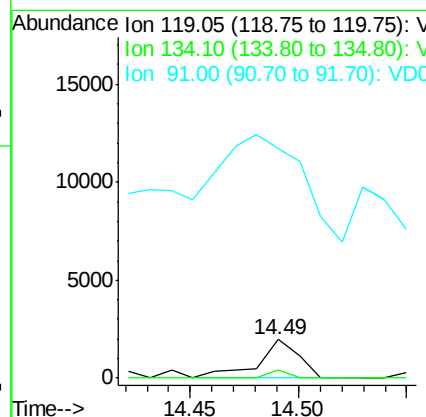
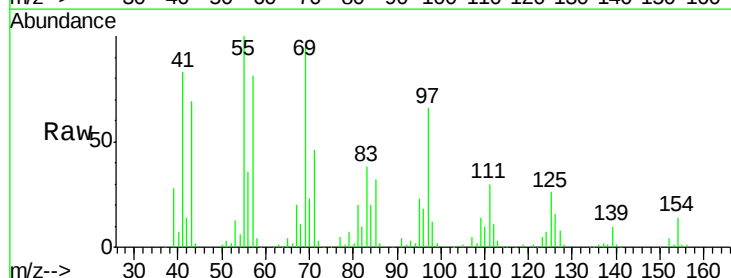
Instrument :  
 MSVOA\_D  
 ClientSampled :

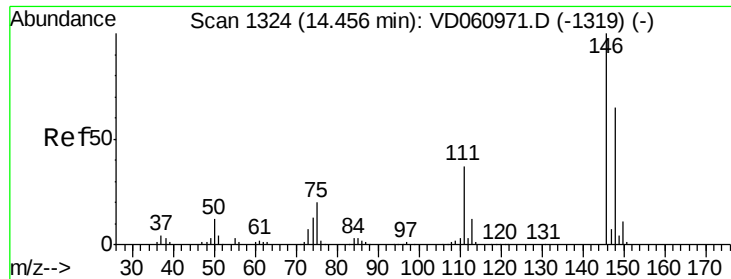
Tot Ion:105 Resp: 3682  
 Ion Ratio Lower Upper  
 105 100  
 134 20.6 9.4 28.2



#86  
 p-Isopropyltoluene  
 Concen: 1.711 ug/l  
 RT: 14.49 min Scan# 1327  
 Delta R.T. 0.01 min  
 Lab File: VD061217.D  
 Acq: 20 Mar 2019 19:26

Tgt Ion:119 Resp: 2537  
 Ion Ratio Lower Upper  
 119 100  
 134 21.0 12.0 36.1  
 91 599.8 11.2 33.6#





#87

1,3-Dichlorobenzene

Concen: 2.692 ug/l

RT: 14.46 min Scan# 1324

Delta R.T. 0.01 min

Lab File: VD061217.D

Acq: 20 Mar 2019 19:26

Instrument :

MSVOA\_D

ClientSampled :

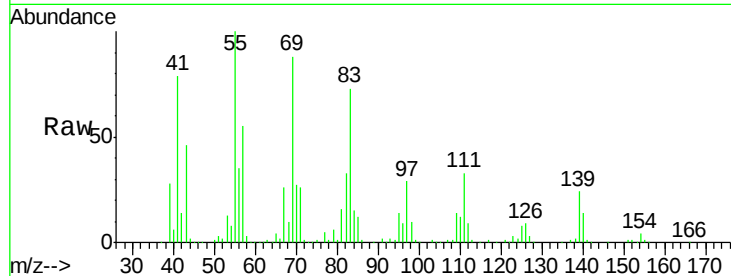
Tot Ion:146 Resp: 2195

Ion Ratio Lower Upper

146 100

111 7387.3 18.4 55.4#

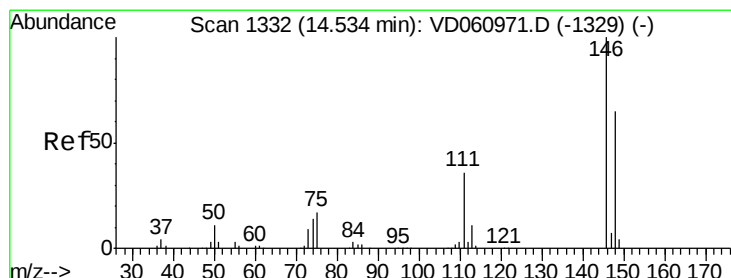
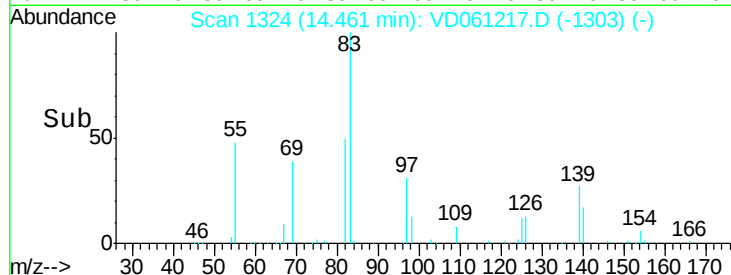
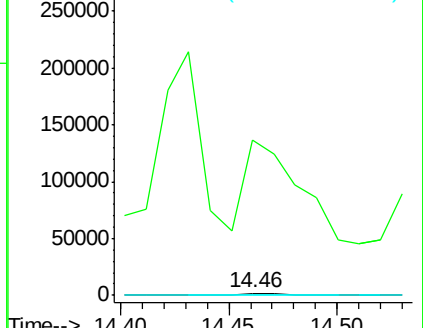
148 0.0 32.5 97.4#



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#88

1,4-Dichlorobenzene

Concen: 2.740 ug/l

RT: 14.46 min Scan# 1324

Delta R.T. -0.07 min

Lab File: VD061217.D

Acq: 20 Mar 2019 19:26

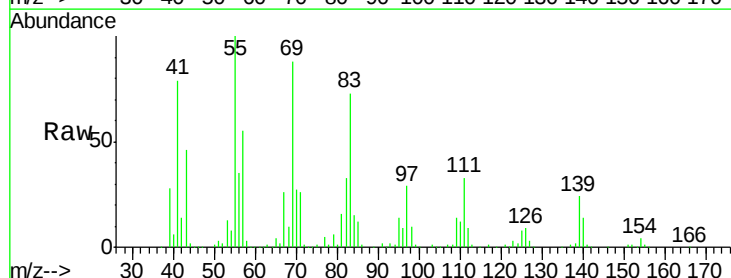
Tgt Ion:146 Resp: 2195

Ion Ratio Lower Upper

146 100

111 7387.3 18.4 55.2#

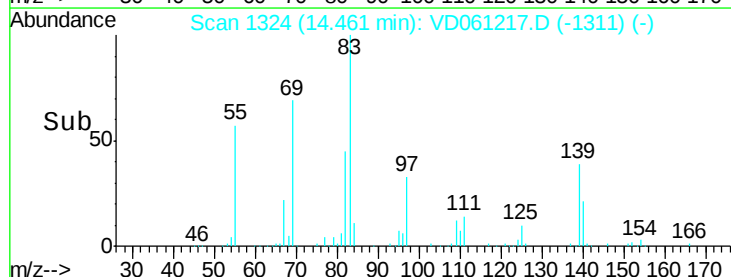
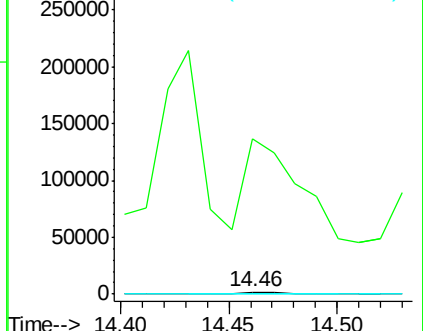
148 0.0 32.5 97.5#

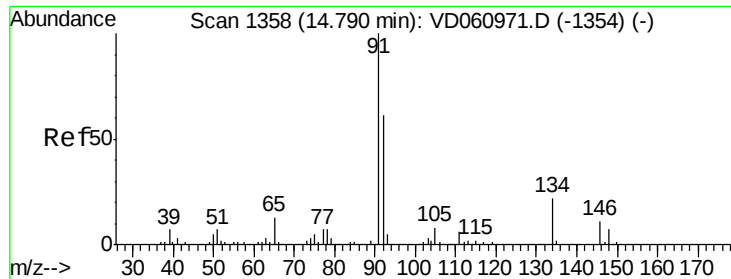


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#89

n-Butylbenzene

Concen: 38.191 ug/l

RT: 14.81 min Scan# 1359

Delta R.T. 0.02 min

Lab File: VD061217.D

Acq: 20 Mar 2019 19:26

Instrument :

MSVOA\_D

ClientSampled :

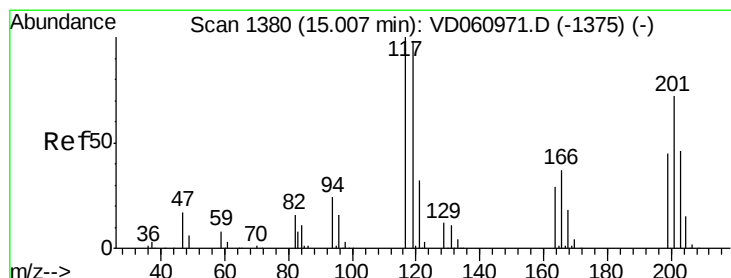
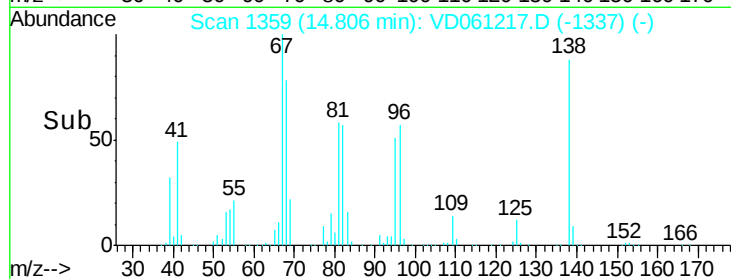
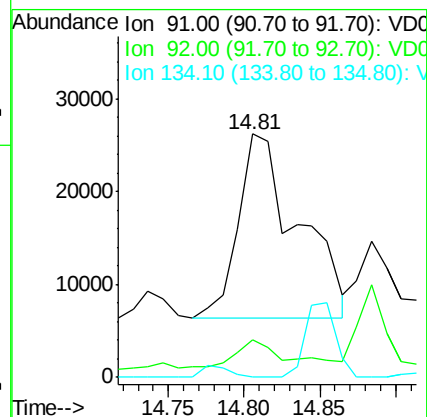
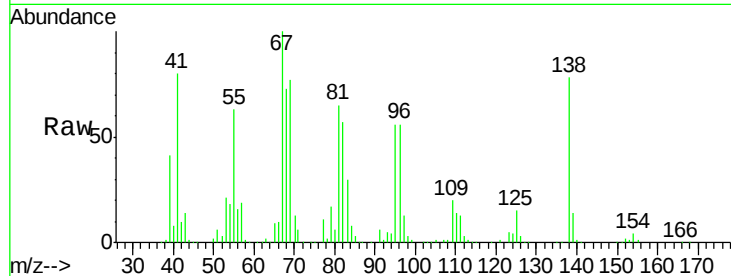
Tot Ion: 91 Resp: 54386

Ion Ratio Lower Upper

91 100

92 15.2 30.6 91.8#

134 0.0 11.0 33.0#



#90

Hexachloroethane

Concen: 64.543 ug/l

RT: 15.05 min Scan# 1384

Delta R.T. 0.04 min

Lab File: VD061217.D

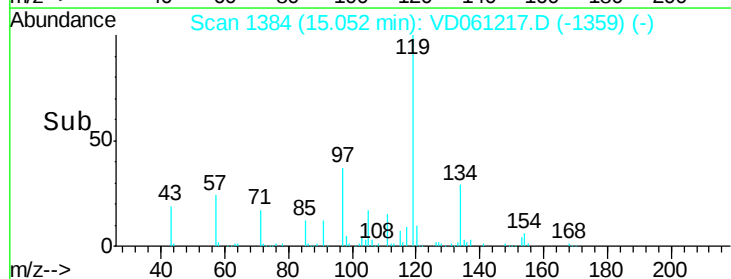
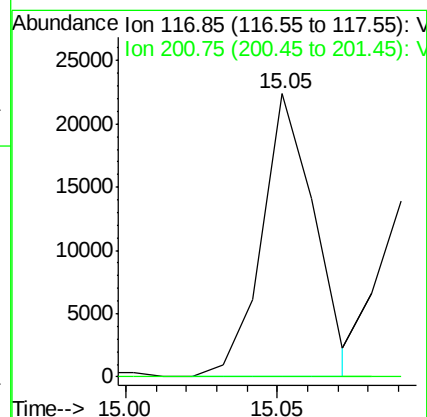
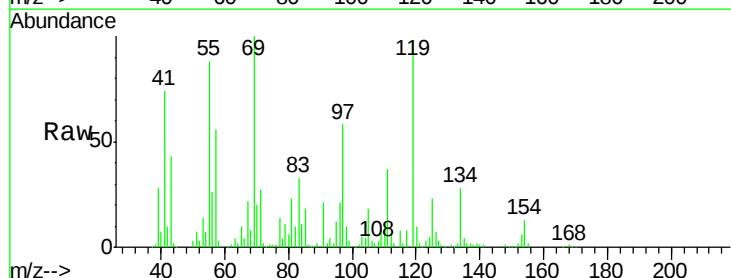
Acq: 20 Mar 2019 19:26

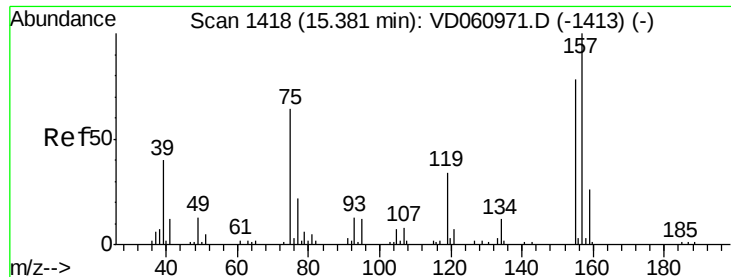
Tgt Ion: 117 Resp: 27026

Ion Ratio Lower Upper

117 100

201 0.0 36.2 108.6#





#92

1,2-Dibromo-3-Chloropropane

Concen: 52.766 ug/l

RT: 15.34 min Scan# 1413

Delta R.T. -0.04 min

Lab File: VD061217.D

Acq: 20 Mar 2019 19:26

Instrument :

MSVOA\_D

ClientSampleId :

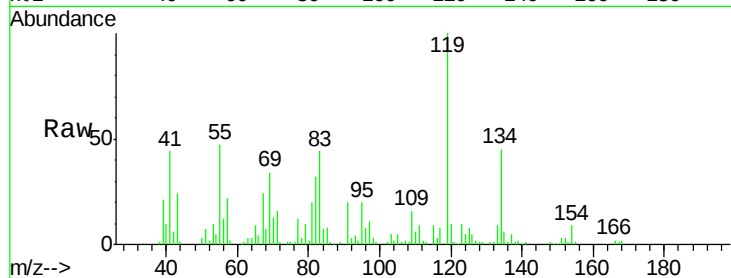
Tot Ion: 75 Resp: 2219

Ion Ratio Lower Upper

75 100

155 126.4 61.2 183.5

157 0.0 78.3 234.8#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 154.90 (154.60 to 155.60): V

Ion 156.85 (156.55 to 157.55): V

