

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD032719\  
 Data File : VD061346.D  
 Acq On : 27 Mar 2019 10:00  
 Operator : VA/AP  
 Sample : BFB  
 Misc : 5.00g/5ml/MSVOA D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 BFB

Quant Time: Mar 28 07:44:28 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D032719S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Mar 28 02:13:53 2019  
 Response via : Initial Calibration

| Internal Standards            | R.T.   | QIon | Response | Conc     | Units     | Dev(Min) |
|-------------------------------|--------|------|----------|----------|-----------|----------|
| 1) Pentafluorobenzene         | 7.04   | 168  | 4270     | 50.00    | ug/l      | 0.02     |
| 34) 1,4-Difluorobenzene       | 8.21   | 114  | 2846     | 50.00    | ug/l      | 0.02     |
| 63) Chlorobenzene-d5          | 12.36  | 117  | 3692     | 50.00    | ug/l      | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 14.50  | 152  | 3551     | 50.00    | ug/l      | 0.00     |
| System Monitoring Compounds   |        |      |          |          |           |          |
| 33) 1,2-Dichloroethane-d4     | 0.00   | 65   | 0        | 0.00     | ug/l      |          |
| Spiked Amount                 | 50.000 |      | Recovery | =        | 0.00%     |          |
| 35) Dibromofluoromethane      | 0.00   | 113  | 0        | 0.00     | ug/l      |          |
| Spiked Amount                 | 50.000 |      | Recovery | =        | 0.00%     |          |
| 50) Toluene-d8                | 10.39  | 98   | 2106     | 40.37    | ug/l      | 0.00     |
| Spiked Amount                 | 50.000 |      | Recovery | =        | 80.74%    |          |
| 62) 4-Bromofluorobenzene      | 13.54  | 95   | 229767   | 11486.57 | ug/l      | 0.00     |
| Spiked Amount                 | 50.000 |      | Recovery | =        | 22973.14% |          |
| Target Compounds              |        |      |          |          |           |          |
|                               |        |      |          |          | Qvalue    |          |
| 2) Dichlorodifluoromethane    | 1.60   | 85   | 1698     | 37.235   | ug/l      | 73       |
| 3) Chloromethane              | 1.80   | 50   | 452      | 12.154   | ug/l #    | 42       |
| 5) Bromomethane               | 2.19   | 94   | 3068     | 453.083  | ug/l #    | 10       |
| 7) Trichlorofluoromethane     | 2.55   | 101  | 192      | 3.867    | ug/l #    | 62       |
| 8) Diethyl Ether              | 2.90   | 74   | 1952     | 122.096  | ug/l      | 94       |
| 10) Methyl Iodide             | 3.33   | 142  | 4521     | 55.312   | ug/l #    | 84       |
| 15) Acrylonitrile             | 4.20   | 53   | 262      | 33.230   | ug/l #    | 71       |
| 16) Acetone                   | 3.23   | 43   | 6082     | 648.624  | ug/l      | 96       |
| 17) Carbon Disulfide          | 3.41   | 76   | 1260     | 8.461    | ug/l #    | 75       |
| 20) Methylene Chloride        | 3.83   | 84   | 27942    | 551.186  | ug/l      | 95       |
| 23) Vinyl Acetate             | 5.06   | 43   | 1106     | 15.051   | ug/l #    | 76       |
| 25) 2-Butanone                | 6.06   | 43   | 199      | 16.871   | ug/l #    | 54       |
| 29) Tetrahydrofuran           | 6.45   | 42   | 3108     | 543.637  | ug/l #    | 81       |
| 31) Cyclohexane               | 6.94   | 56   | 406      | 6.462    | ug/l #    | 71       |
| 36) 1,1-Dichloropropene       | 7.14   | 75   | 202      | 8.132    | ug/l #    | 38       |
| 37) Ethyl Acetate             | 6.06   | 43   | 199      | 18.733   | ug/l #    | 65       |
| 38) Carbon Tetrachloride      | 7.04   | 117  | 193      | 6.824    | ug/l #    | 10       |
| 39) Methylcyclohexane         | 8.84   | 83   | 626      | 24.198   | ug/l #    | 66       |
| 40) Benzene                   | 7.45   | 78   | 1236     | 19.827   | ug/l #    | 54       |
| 41) Methacrylonitrile         | 6.44   | 41   | 1801     | 144.997  | ug/l #    | 43       |
| 43) Isopropyl Acetate         | 9.53   | 43   | 5500     | 355.839  | ug/l #    | 42       |
| 44) Trichloroethene           | 8.52   | 130  | 241      | 10.388   | ug/l      | 4        |
| 51) 4-Methyl-2-Pentanone      | 10.33  | 43   | 2131     | 226.616  | ug/l #    | 35       |
| 52) Toluene                   | 10.50  | 92   | 1258     | 33.078   | ug/l #    | 59       |
| 58) 2-Chloroethyl Vinyl ether | 9.84   | 63   | 1590     | 228.502  | ug/l #    | 47       |
| 59) 2-Hexanone                | 11.52  | 43   | 503      | 73.828   | ug/l #    | 26       |
| 60) Dibromochloromethane      | 11.66  | 129  | 184      | 8.974    | ug/l #    | 10       |
| 64) Tetrachloroethene         | 11.24  | 164  | 184      | 6.350    | ug/l #    | 56       |
| 65) Chlorobenzene             | 12.39  | 112  | 1867     | 24.744   | ug/l #    | 86       |
| 67) Ethyl Benzene             | 12.51  | 91   | 1804     | 15.664   | ug/l #    | 42       |
| 68) m/p-Xylenes               | 12.66  | 106  | 1671     | 38.303   | ug/l #    | 68       |
| 69) o-Xylene                  | 13.04  | 106  | 238      | 5.622    | ug/l      | 75       |
| 70) Styrene                   | 13.07  | 104  | 1228     | 16.640   | ug/l      | 92       |
| 73) Isopropylbenzene          | 13.39  | 105  | 2451     | 9.917    | ug/l      | 97       |

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 Operator : VA/AP  
 Sample : BFB  
 Misc : 5.00g/5ml/MSVOA D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

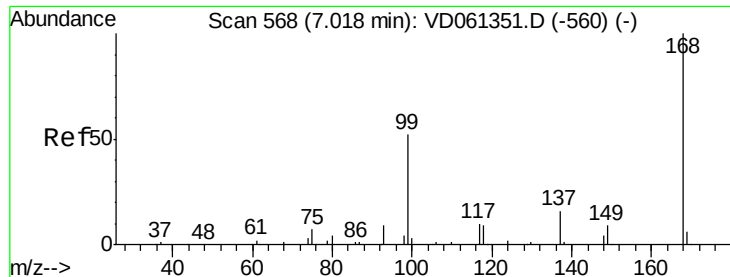
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 BFB

Quant Time: Mar 28 07:44:28 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D032719S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Mar 28 02:13:53 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| -----                          |       |      |          |          |        |          |
| 74) N-amyl acetate             | 13.25 | 43   | 520      | 7.553    | ug/l # | 47       |
| 75) 1,1,2,2-Tetrachloroethane  | 13.69 | 83   | 236      | 4.527    | ug/l # | 26       |
| 77) Bromobenzene               | 13.66 | 156  | 846      | 11.547   | ug/l   | 93       |
| 78) n-propylbenzene            | 13.77 | 91   | 2978     | 9.846    | ug/l   | 98       |
| 79) 2-Chlorotoluene            | 13.93 | 91   | 2377     | 14.474   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 14.23 | 105  | 2804     | 13.507   | ug/l   | 79       |
| 81) trans-1,4-Dichloro-2-buten | 13.54 | 75   | 82380    | 5267.294 | ug/l # | 18       |
| 82) 4-Chlorotoluene            | 13.93 | 91   | 2377     | 13.312   | ug/l   | 100      |
| 83) tert-Butylbenzene          | 14.18 | 119  | 1506     | 6.284    | ug/l # | 78       |
| 84) 1,2,4-Trimethylbenzene     | 14.23 | 105  | 2804     | 13.507   | ug/l   | 79       |
| 85) sec-Butylbenzene           | 14.36 | 105  | 2352     | 9.239    | ug/l   | 80       |
| 86) p-Isopropyltoluene         | 14.47 | 119  | 1631     | 7.576    | ug/l # | 74       |
| 87) 1,3-Dichlorobenzene        | 14.45 | 146  | 2298     | 18.521   | ug/l   | 85       |
| 88) 1,4-Dichlorobenzene        | 14.52 | 146  | 3247     | 26.836   | ug/l   | 93       |
| 89) n-Butylbenzene             | 14.79 | 91   | 3233     | 16.362   | ug/l   | 88       |
| 90) Hexachloroethane           | 15.00 | 117  | 221      | 3.634    | ug/l # | 10       |
| 91) 1,2-Dichlorobenzene        | 14.80 | 146  | 1890     | 18.571   | ug/l   | 93       |
| 93) 1,2,4-Trichlorobenzene     | 15.93 | 180  | 1709     | 36.864   | ug/l   | 92       |
| 94) Hexachlorobutadiene        | 16.03 | 225  | 673      | 18.577   | ug/l   | 88       |
| 95) Naphthalene                | 16.12 | 128  | 4492     | 63.568   | ug/l   | 98       |
| 96) 1,2,3-Trichlorobenzene     | 16.26 | 180  | 863      | 42.303   | ug/l # | 66       |
| -----                          |       |      |          |          |        |          |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 571

Delta R.T. 0.02 min

Lab File: VD061346.D

Acq: 27 Mar 2019 10:00

Instrument :

MSVOA\_D

ClientSampleId :

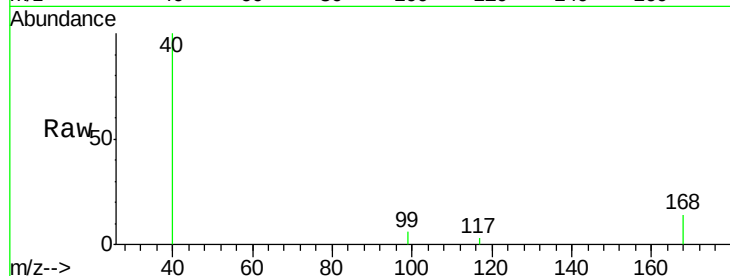
BFB

Tot Ion:168 Resp: 4270

Ion Ratio Lower Upper

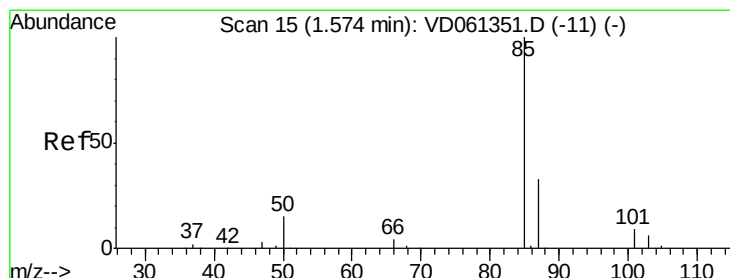
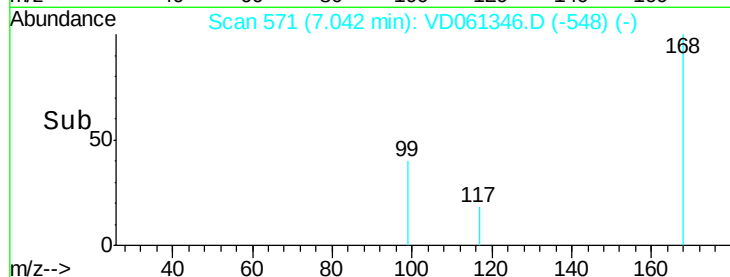
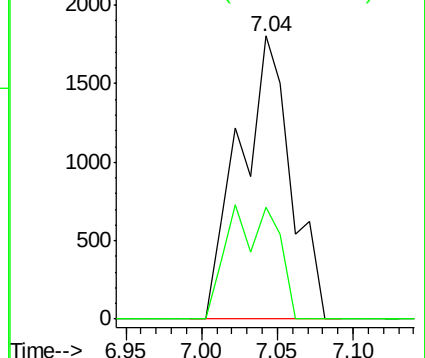
168 100

99 39.7 43.1 64.7#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 37.235 ug/l

RT: 1.60 min Scan# 18

Delta R.T. 0.02 min

Lab File: VD061346.D

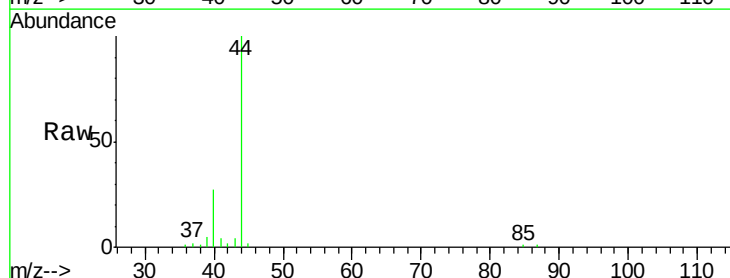
Acq: 27 Mar 2019 10:00

Tgt Ion: 85 Resp: 1698

Ion Ratio Lower Upper

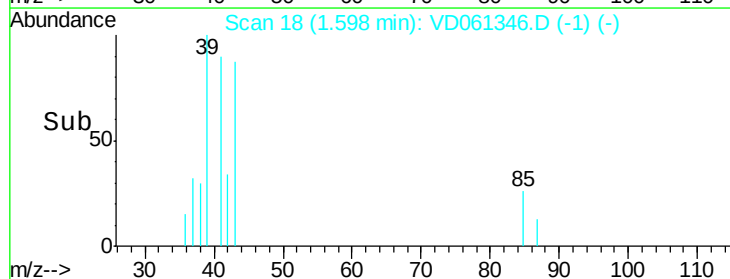
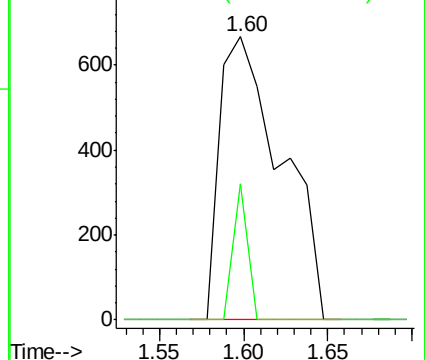
85 100

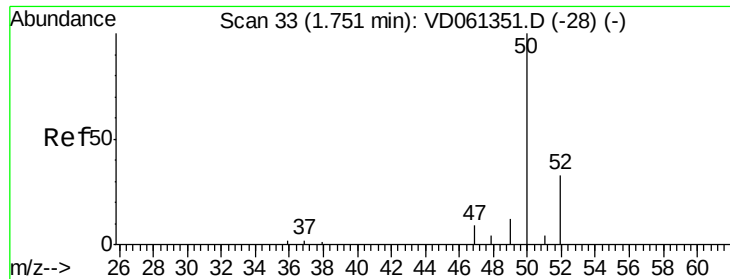
87 48.3 16.6 49.7



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 12.154 ug/l

RT: 1.80 min Scan# 39

Delta R.T. 0.05 min

Lab File: VD061346.D

Acq: 27 Mar 2019 10:00

Instrument :

MSVOA\_D

ClientSampled :

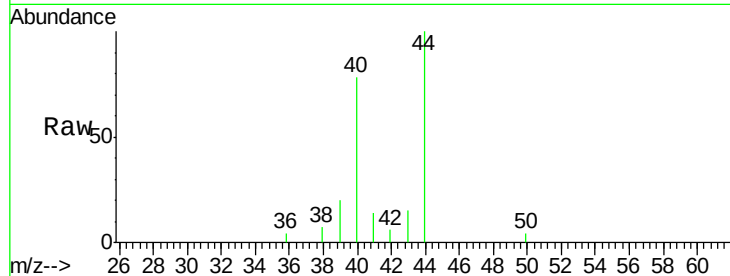
BFB

Tot Ion: 50 Resp: 452

Ion Ratio Lower Upper

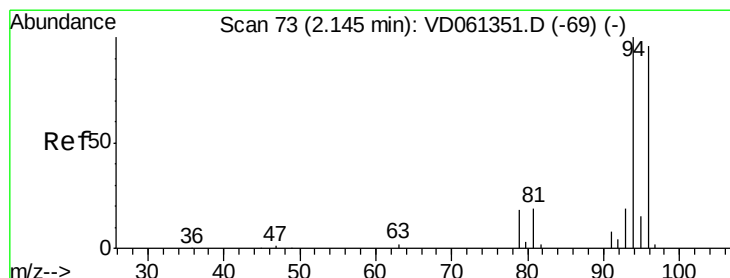
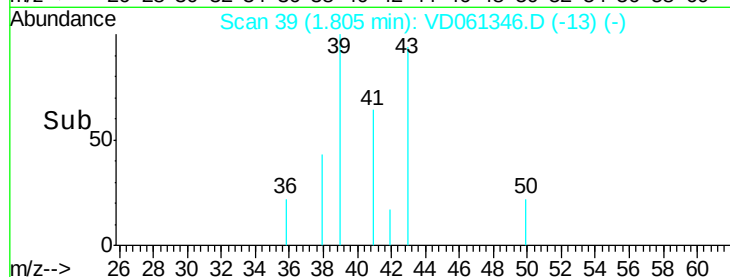
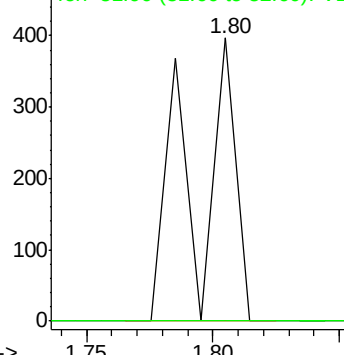
50 100

52 0.0 26.1 39.1#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#5

Bromomethane

Concen: 453.083 ug/l

RT: 2.19 min Scan# 78

Delta R.T. 0.04 min

Lab File: VD061346.D

Acq: 27 Mar 2019 10:00

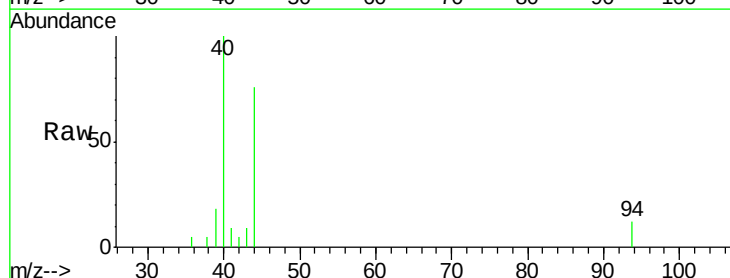
Tgt Ion: 94 Resp: 3068

Ion Ratio Lower Upper

94 100

96 0.0 78.3 117.5#

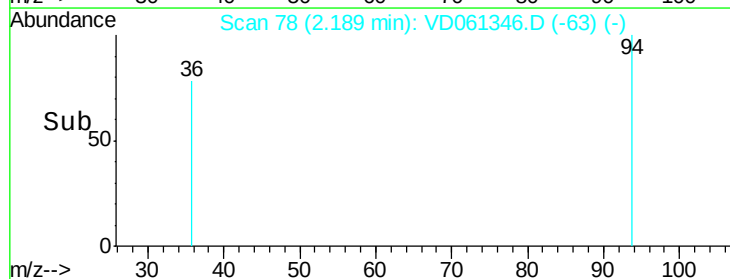
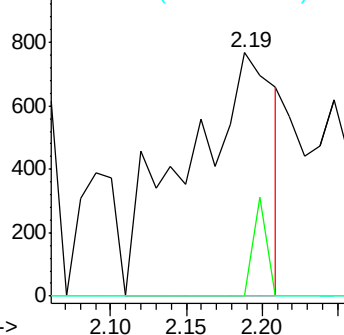
93 0.0 15.6 23.4#

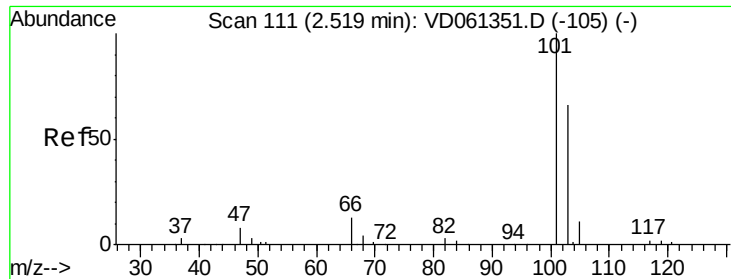


Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC



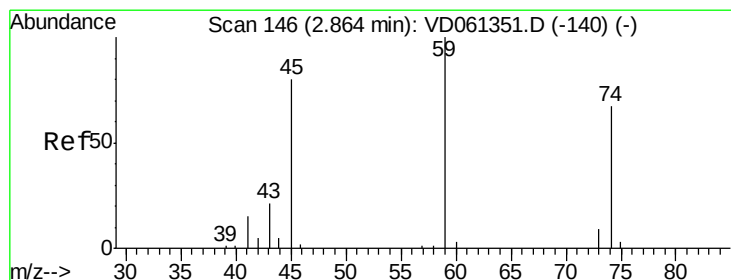
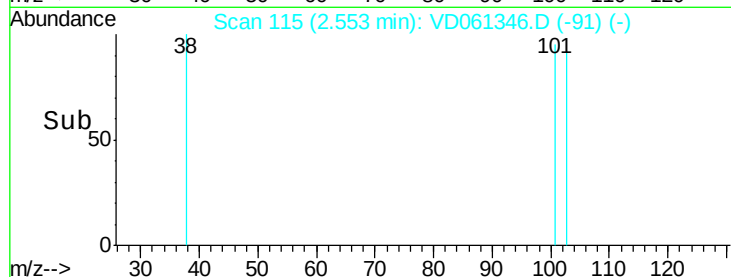
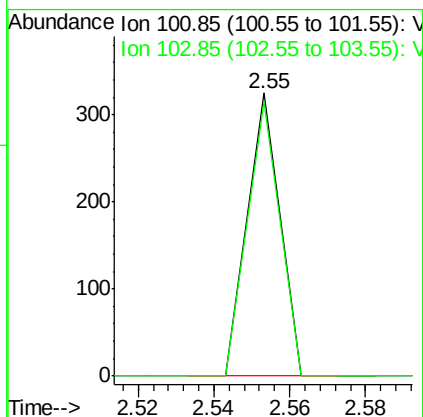
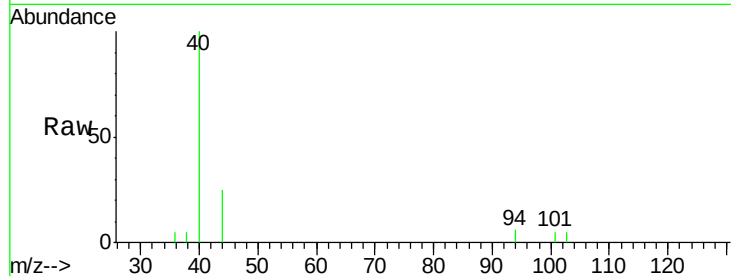


#7

Trichlorofluoromethane  
 Concen: 3.867 ug/l  
 RT: 2.55 min Scan# 115  
 Delta R.T. 0.03 min  
 Lab File: VD061346.D  
 Acq: 27 Mar 2019 10:00

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 BFB

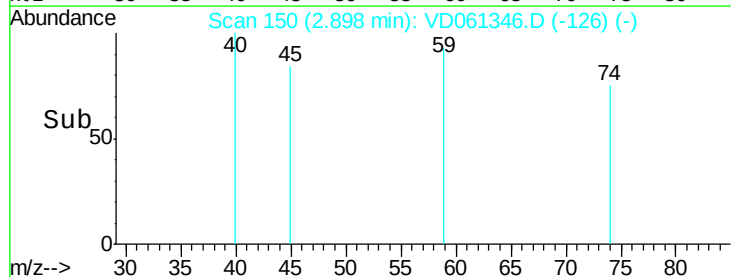
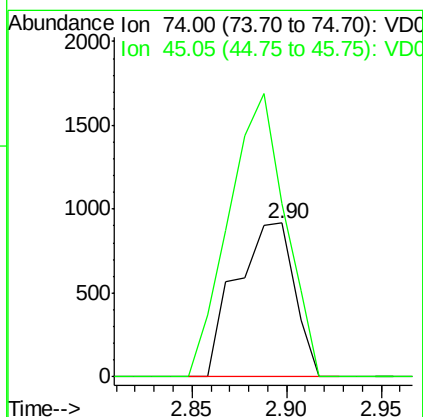
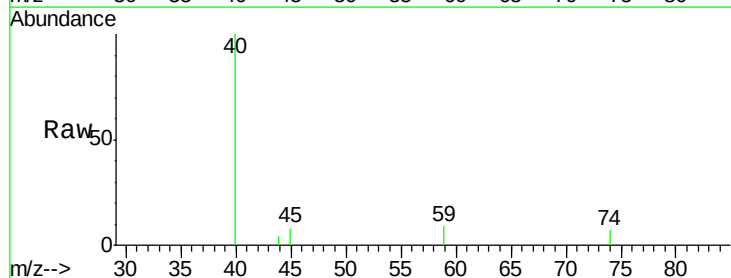
Tot Ion:101 Resp: 192  
 Ion Ratio Lower Upper  
 101 100  
 103 96.9 53.1 79.7#

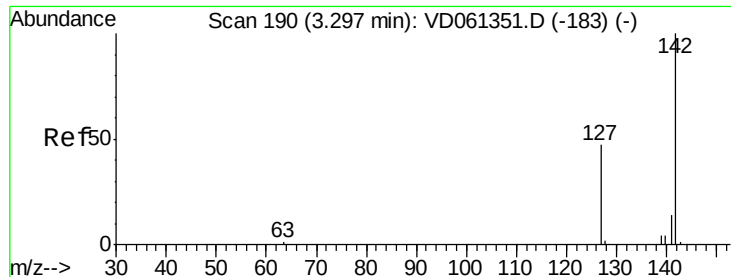


#8

Diethyl Ether  
 Concen: 122.096 ug/l  
 RT: 2.90 min Scan# 150  
 Delta R.T. 0.03 min  
 Lab File: VD061346.D  
 Acq: 27 Mar 2019 10:00

Tgt Ion: 74 Resp: 1952  
 Ion Ratio Lower Upper  
 74 100  
 45 112.7 59.7 179.1

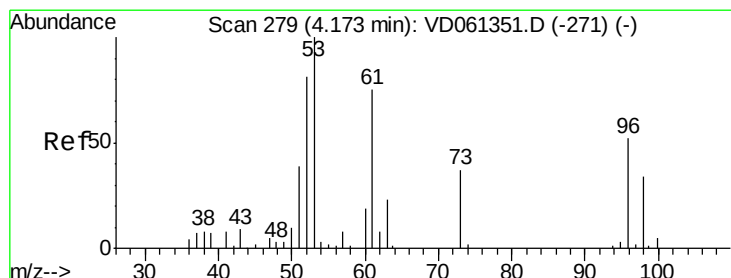
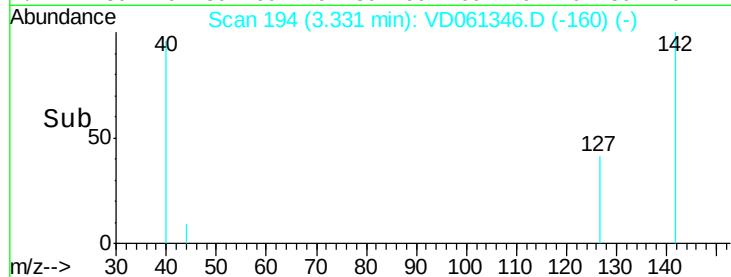
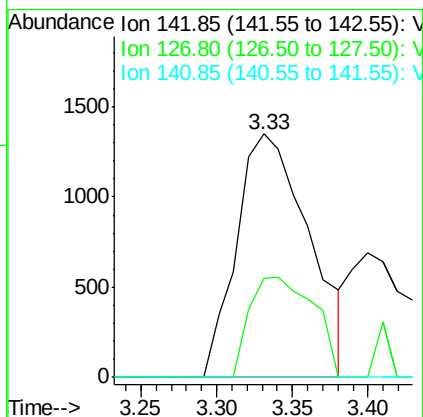
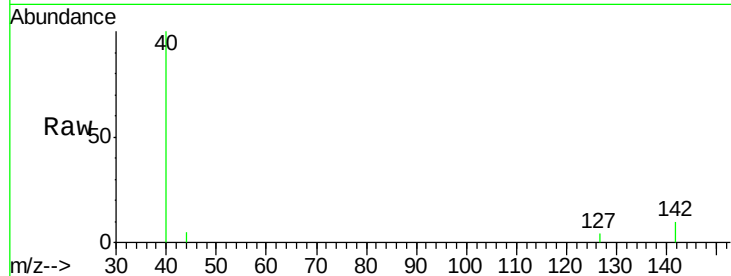




#10  
Methyl Iodide  
Concen: 55.312 ug/l  
RT: 3.33 min Scan# 194  
Delta R.T. 0.03 min  
Lab File: VD061346.D  
Acq: 27 Mar 2019 10:00

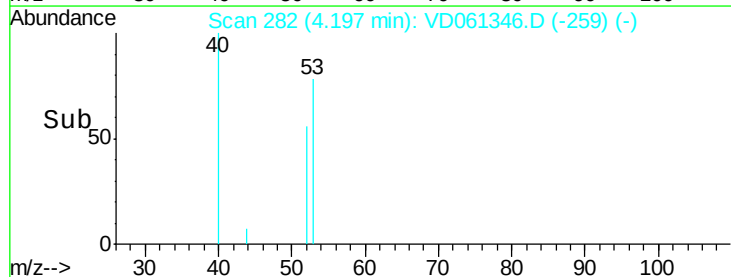
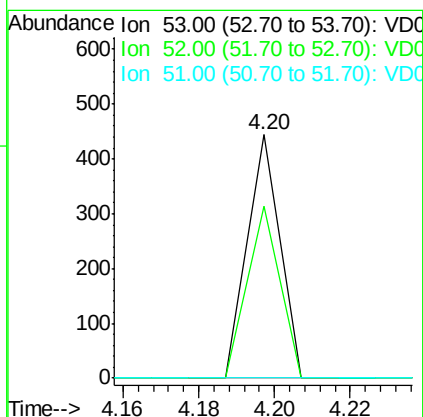
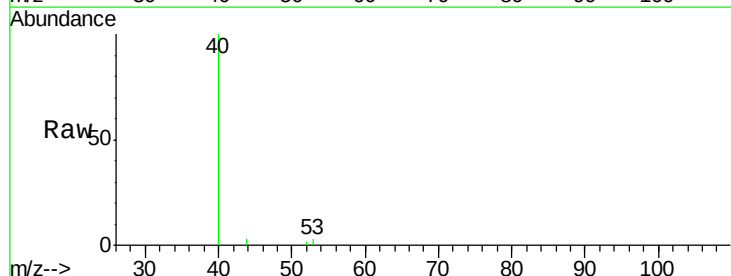
Instrument :  
MSVOA\_D  
ClientSampled :  
BFB

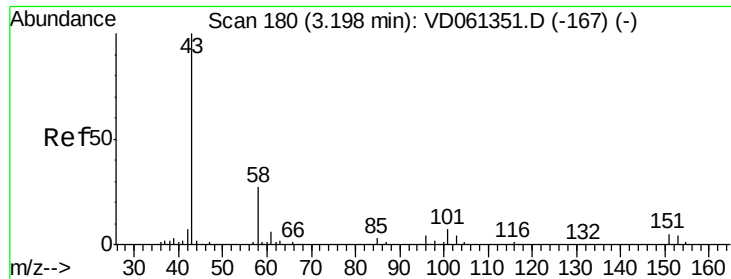
Tot Ion:142 Resp: 4521  
Ion Ratio Lower Upper  
142 100  
127 40.6 37.7 56.5  
141 0.0 11.5 17.3#



#15  
Acrylonitrile  
Concen: 33.230 ug/l  
RT: 4.20 min Scan# 282  
Delta R.T. 0.02 min  
Lab File: VD061346.D  
Acq: 27 Mar 2019 10:00

Tgt Ion: 53 Resp: 262  
Ion Ratio Lower Upper  
53 100  
52 70.9 64.8 97.2  
51 0.0 31.4 47.2#





#16

Acetone

Concen: 648.624 ug/l

RT: 3.23 min Scan# 184

Delta R.T. 0.03 min

Lab File: VD061346.D

Acq: 27 Mar 2019 10:00

Instrument :

MSVOA\_D

ClientSampleId :

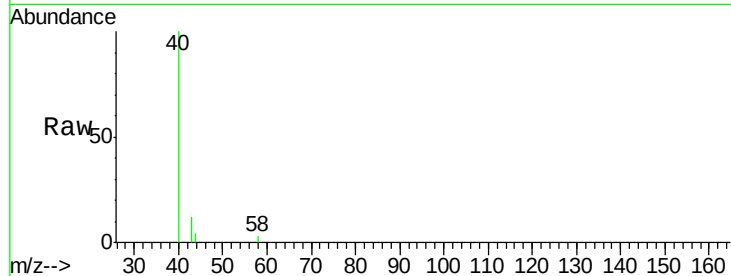
BFB

Tot Ion: 43 Resp: 6082

Ion Ratio Lower Upper

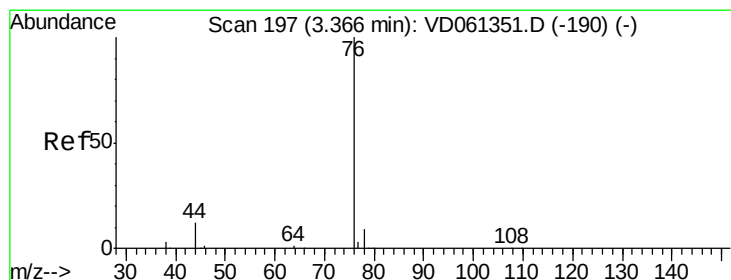
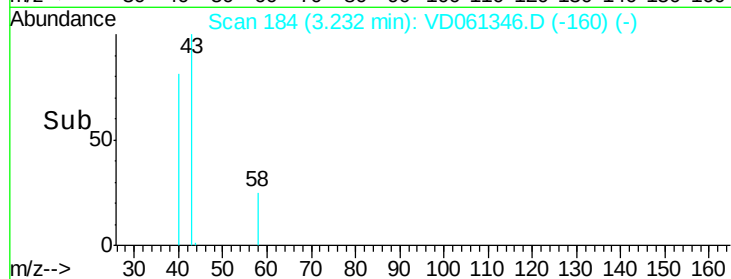
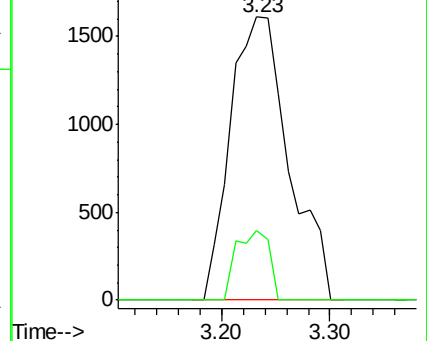
43 100

58 24.6 21.5 32.3



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#17

Carbon Disulfide

Concen: 8.461 ug/l

RT: 3.41 min Scan# 202

Delta R.T. 0.04 min

Lab File: VD061346.D

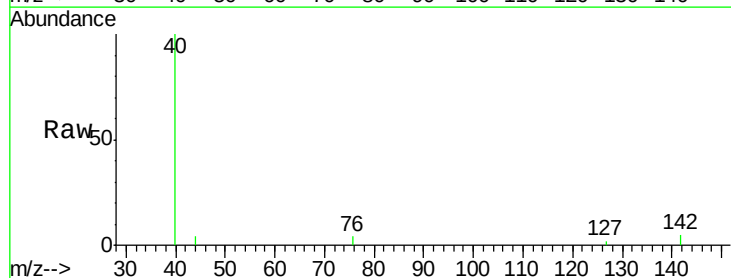
Acq: 27 Mar 2019 10:00

Tgt Ion: 76 Resp: 1260

Ion Ratio Lower Upper

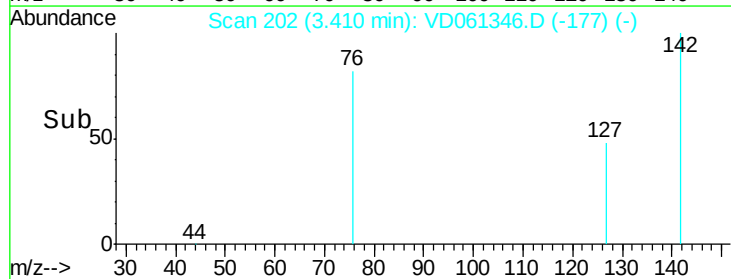
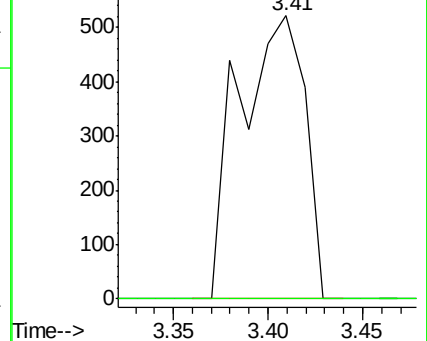
76 100

78 0.0 7.1 10.7#

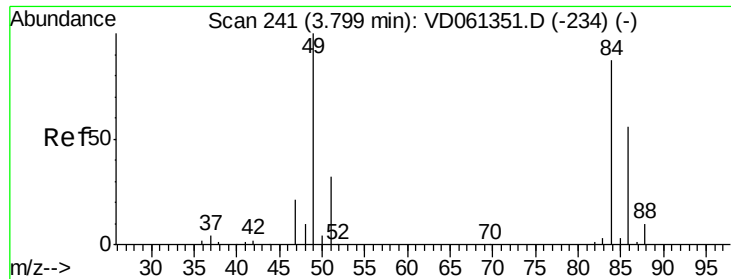


Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



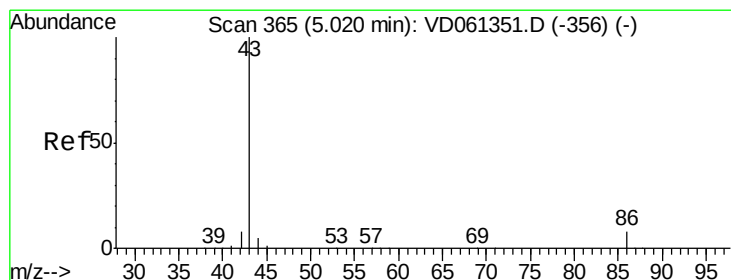
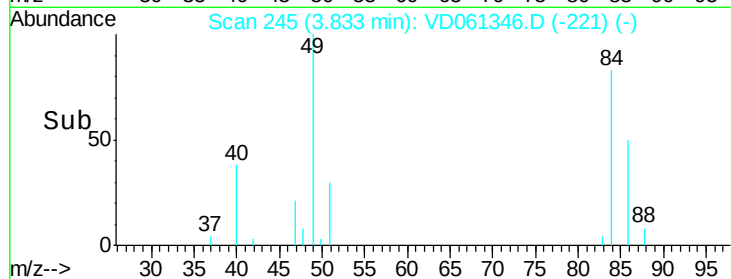
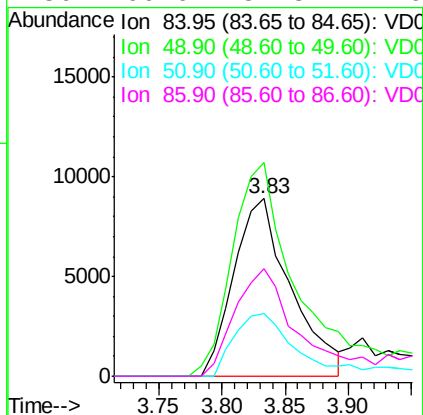
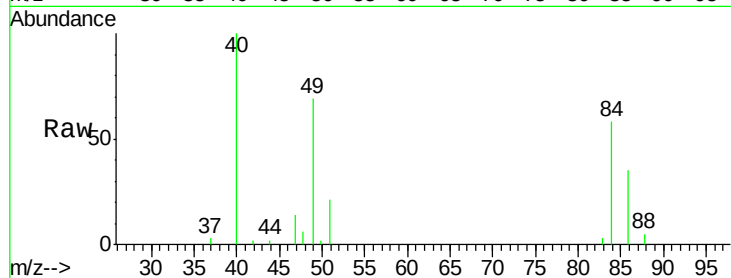




#20  
Methvlene Chloride  
Concen: 551.186 ug/l  
RT: 3.83 min Scan# 245  
Delta R.T. 0.03 min  
Lab File: VD061346.D  
Acq: 27 Mar 2019 10:00

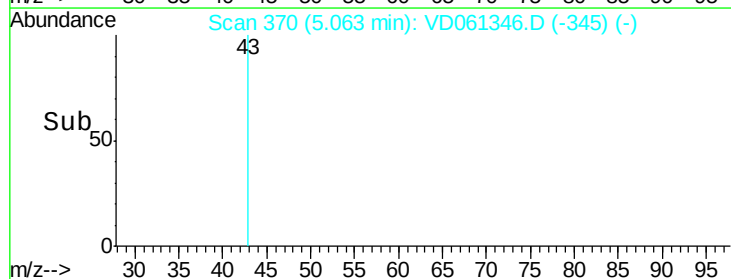
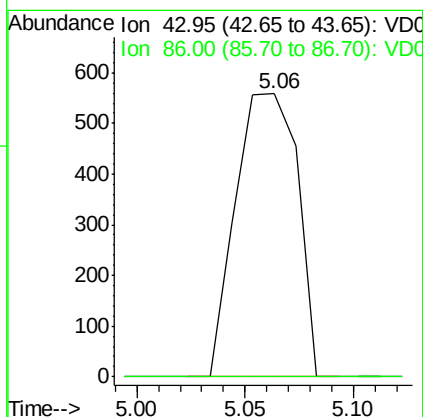
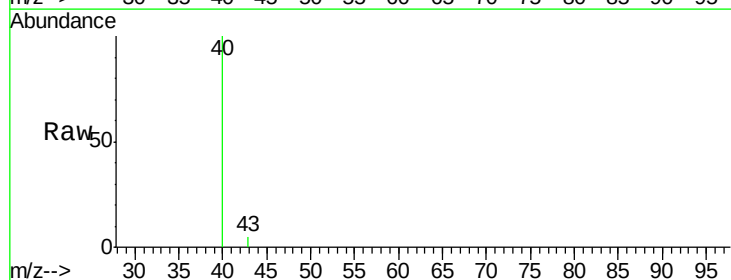
Instrument :  
MSVOA\_D  
ClientSampleId :  
BFB

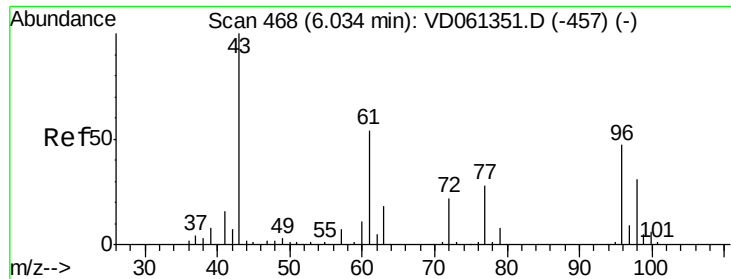
Tot Ion: 84 Resp: 27942  
Ion Ratio Lower Upper  
84 100  
49 120.5 91.8 137.8  
51 35.6 29.8 44.8  
86 60.6 51.8 77.6



#23  
Vinyl Acetate  
Concen: 15.051 ug/l  
RT: 5.06 min Scan# 370  
Delta R.T. 0.04 min  
Lab File: VD061346.D  
Acq: 27 Mar 2019 10:00

Tgt Ion: 43 Resp: 1106  
Ion Ratio Lower Upper  
43 100  
86 0.0 6.7 10.1#

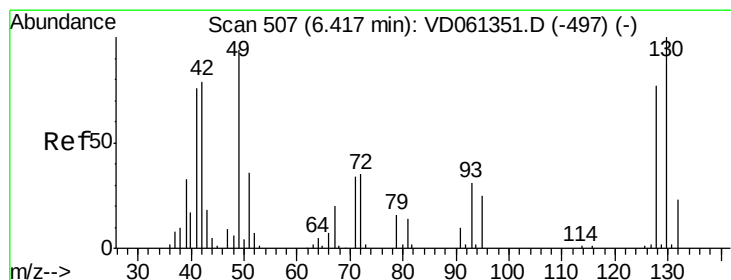
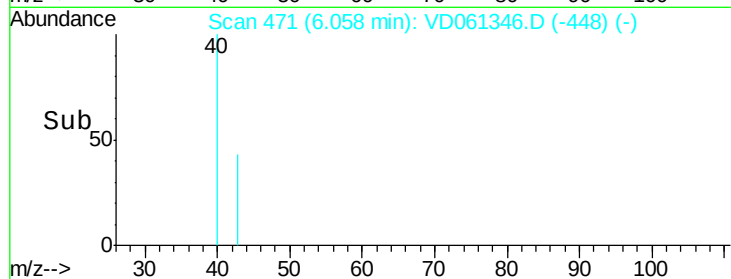
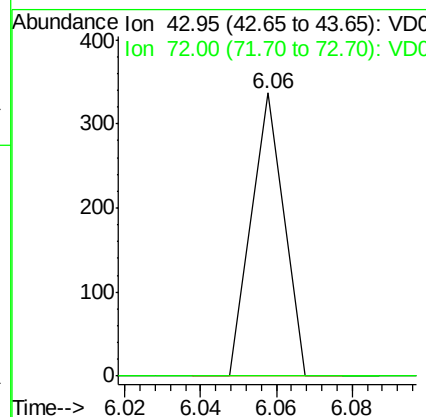
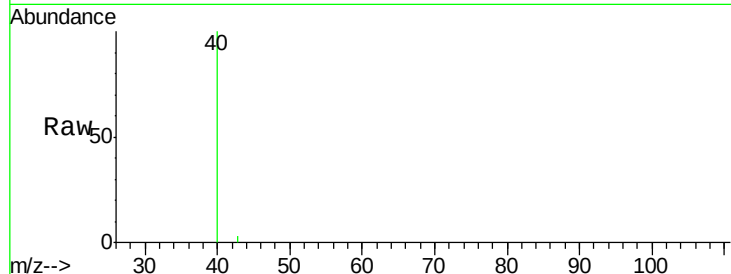




#25  
2-Butanone  
Concen: 16.871 ug/l  
RT: 6.06 min Scan# 471  
Delta R.T. 0.02 min  
Lab File: VD061346.D  
Acq: 27 Mar 2019 10:00

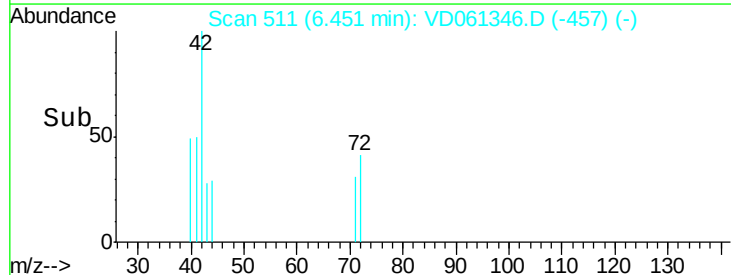
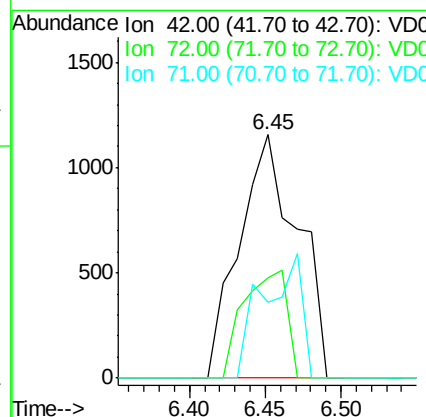
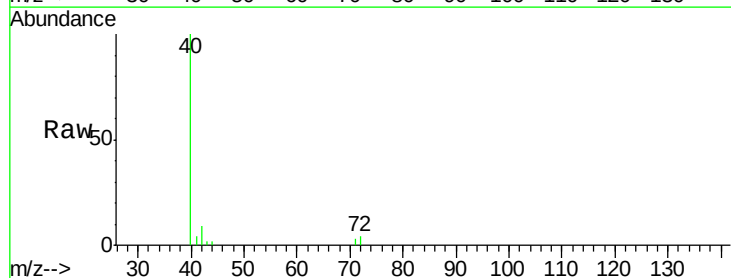
Instrument :  
MSVOA\_D  
ClientSampleId :  
BFB

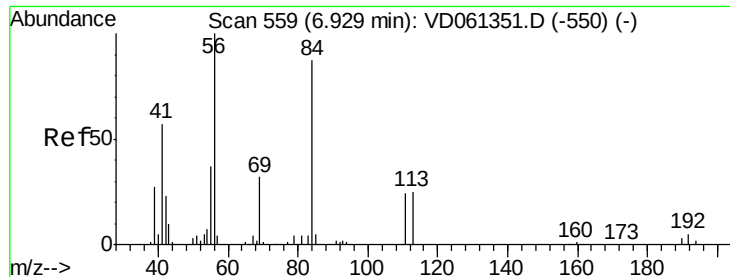
Tot Ion: 43 Resp: 199  
Ion Ratio Lower Upper  
43 100  
72 0.0 17.2 25.8#



#29  
Tetrahydrofuran  
Concen: 543.637 ug/l  
RT: 6.45 min Scan# 511  
Delta R.T. 0.03 min  
Lab File: VD061346.D  
Acq: 27 Mar 2019 10:00

Tgt Ion: 42 Resp: 3108  
Ion Ratio Lower Upper  
42 100  
72 32.9 37.4 56.0#  
71 33.9 36.7 55.1#

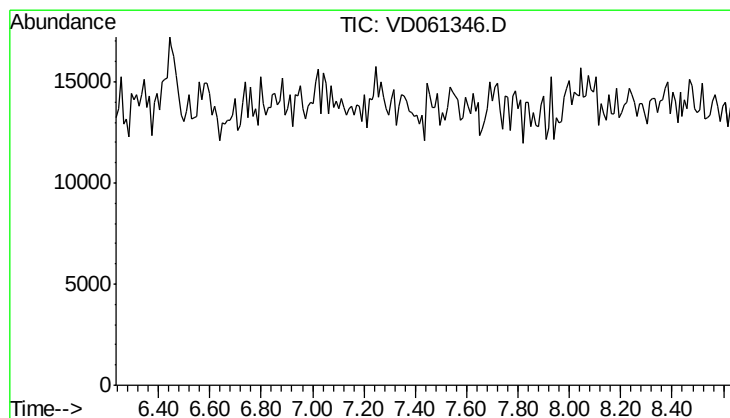
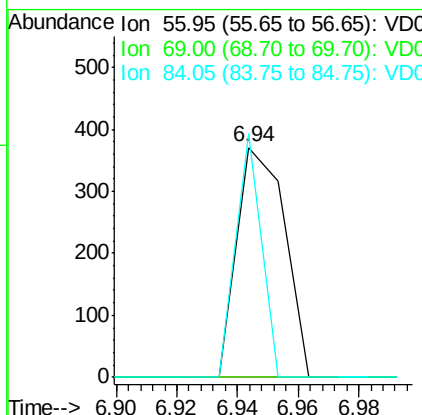
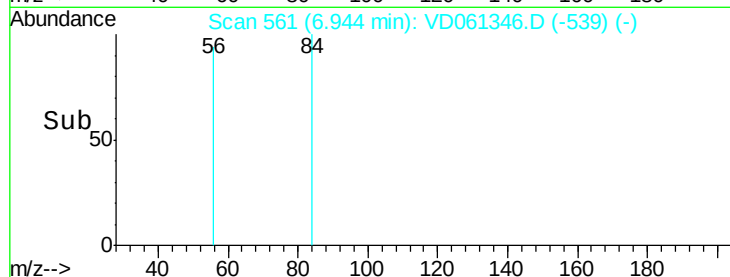
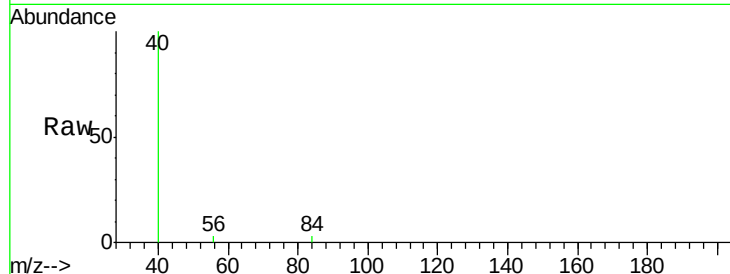




#31  
Cyclohexane  
Concen: 6.462 ug/l  
RT: 6.94 min Scan# 561  
Delta R.T. 0.01 min  
Lab File: VD061346.D  
Acq: 27 Mar 2019 10:00

Instrument :  
MSVOA\_D  
ClientSampleId :  
BFB

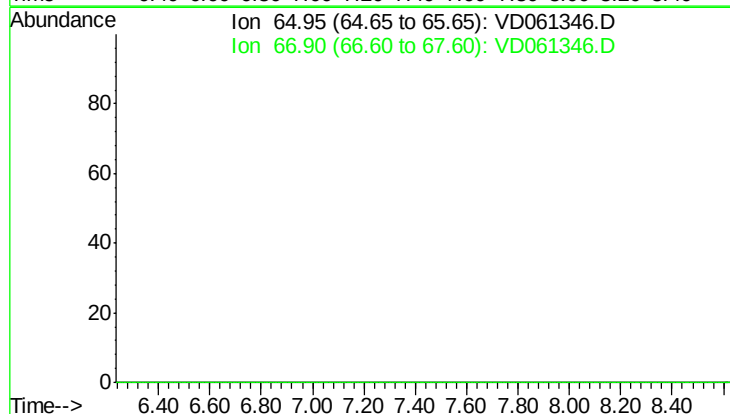
Tot Ion: 56 Resp: 406  
Ion Ratio Lower Upper  
56 100  
69 0.0 25.7 38.5#  
84 105.9 70.6 105.8#

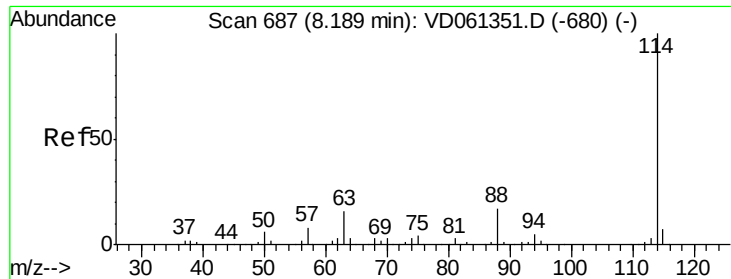


#33  
1,2-Dichloroethane-d4  
Concen: N.D. ug/l  
Expected RT: 7.43 min

Lab File: VD061346.D  
Acq: 27 Mar 2019 10:00

Tgt Ion: 65  
Sig Exp Ratio  
65 100  
67 49.9





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.21 min Scan# 690

Delta R.T. 0.02 min

Lab File: VD061346.D

Acq: 27 Mar 2019 10:00

Instrument :

MSVOA\_D

ClientSampleId :

BFB

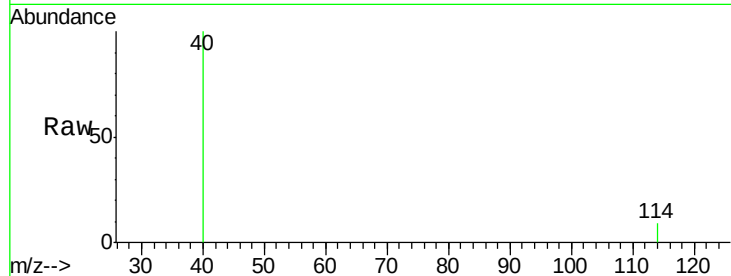
Tot Ion:114 Resp: 2846

Ion Ratio Lower Upper

114 100

63 0.0 0.0 31.6

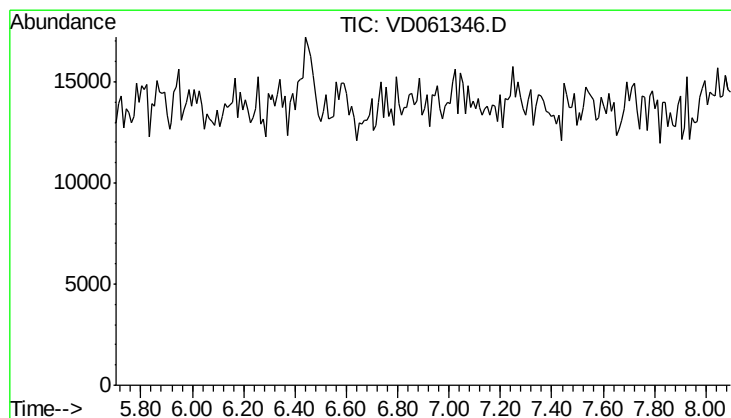
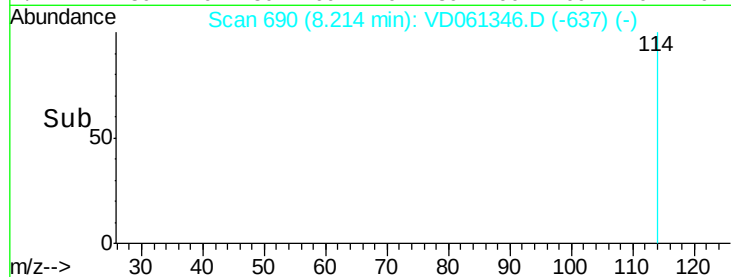
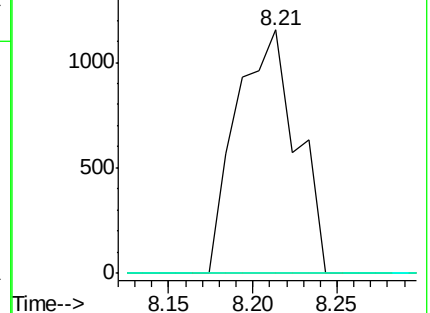
88 0.0 0.0 33.4



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 50.000 ug/l

Expected RT: 6.90 min

Lab File: VD061346.D

Acq: 27 Mar 2019 10:00

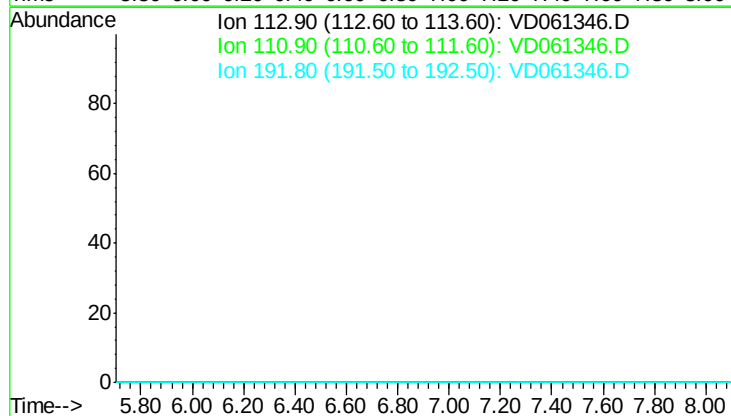
Tgt Ion: 113

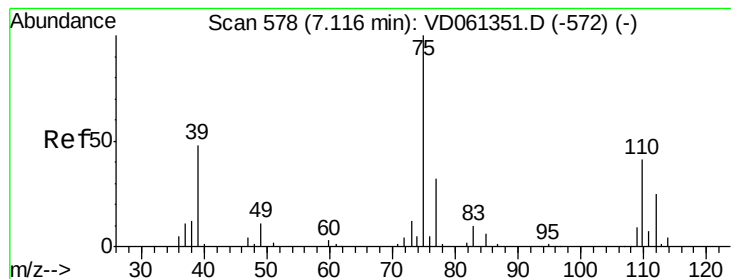
Sig Exp Ratio

113 100

111 101.3

192 18.0





#36

1,1-Dichloropropene

Concen: 8.132 ug/l

RT: 7.14 min Scan# 581

Delta R.T. 0.02 min

Lab File: VD061346.D

Acq: 27 Mar 2019 10:00

Instrument :

MSVOA\_D

ClientSampleId :

BFB

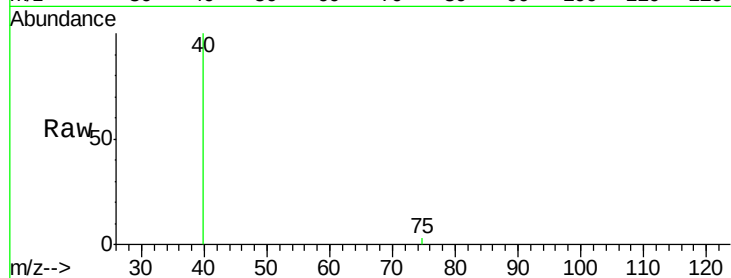
Tot Ion: 75 Resp: 202

Ion Ratio Lower Upper

75 100

110 0.0 20.4 61.3#

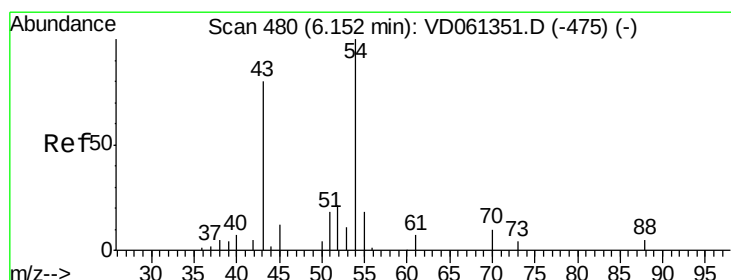
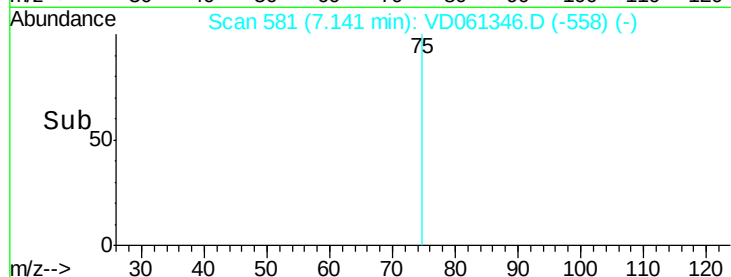
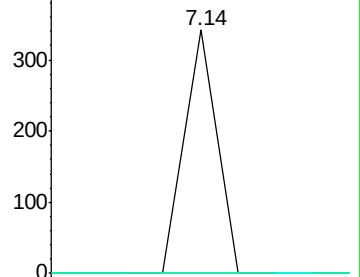
77 0.0 24.9 37.3#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): VDC

Ion 76.95 (76.65 to 77.65): VDC



#37

Ethyl Acetate

Concen: 18.733 ug/l

RT: 6.06 min Scan# 471

Delta R.T. -0.09 min

Lab File: VD061346.D

Acq: 27 Mar 2019 10:00

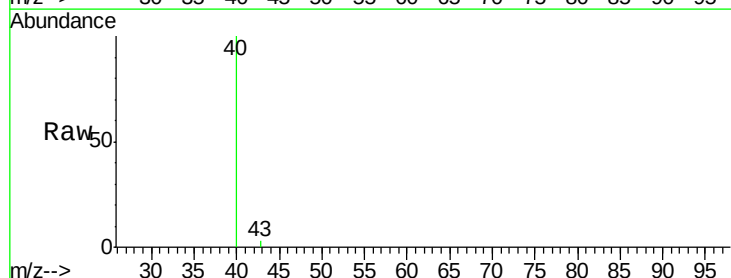
Tgt Ion: 43 Resp: 199

Ion Ratio Lower Upper

43 100

61 0.0 13.8 20.8#

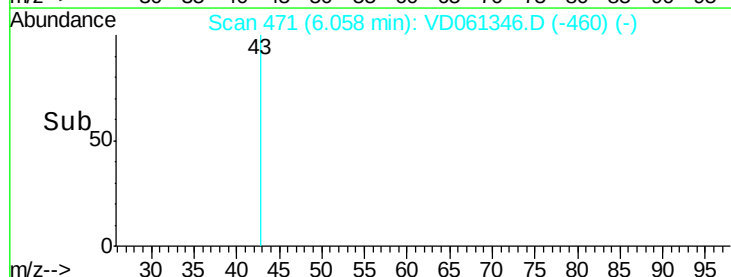
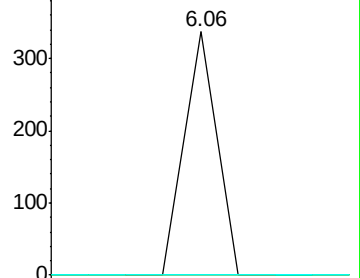
70 0.0 7.8 11.8#

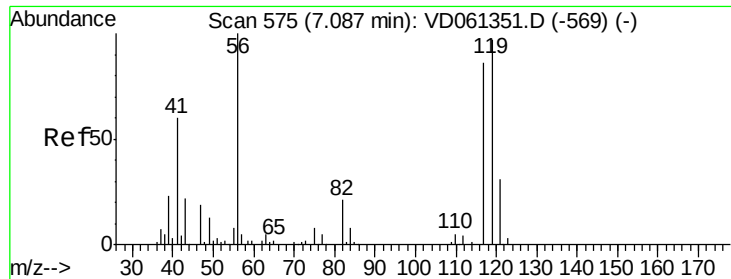


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC





#38

Carbon Tetrachloride

Concen: 6.824 ug/l

RT: 7.04 min Scan# 571

Delta R.T. -0.04 min

Lab File: VD061346.D

Acq: 27 Mar 2019 10:00

Instrument :

MSVOA\_D

ClientSampleId :

BFB

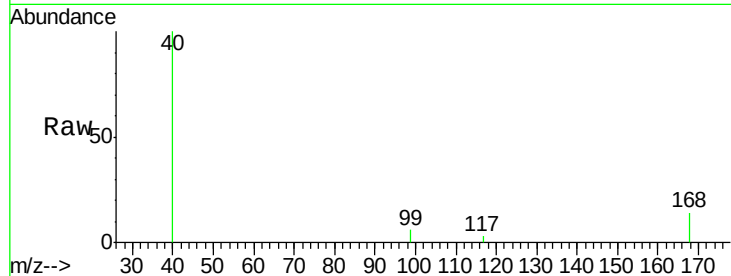
Tot Ion:117 Resp: 193

Ion Ratio Lower Upper

117 100

119 0.0 80.1 120.1#

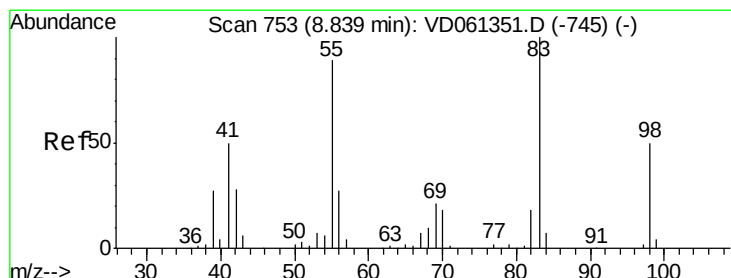
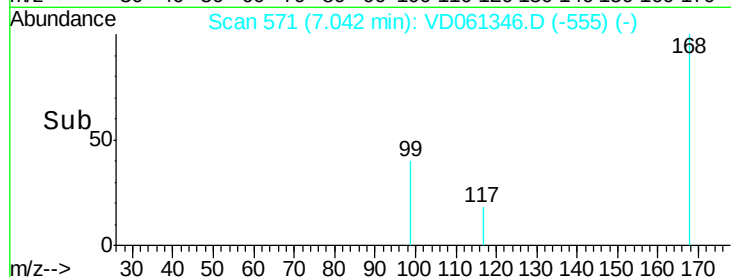
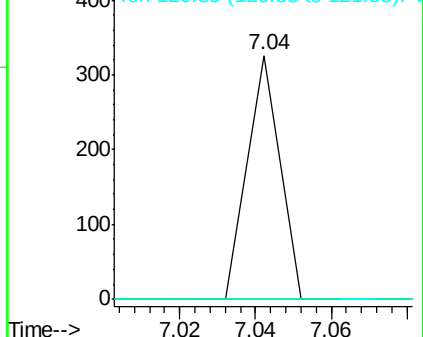
121 0.0 25.6 38.4#



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: 24.198 ug/l

RT: 8.84 min Scan# 754

Delta R.T. 0.00 min

Lab File: VD061346.D

Acq: 27 Mar 2019 10:00

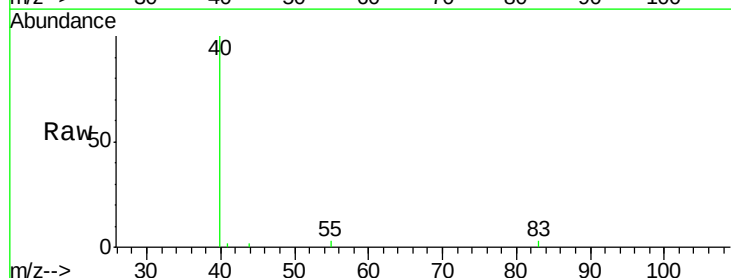
Tgt Ion: 83 Resp: 626

Ion Ratio Lower Upper

83 100

55 101.0 71.5 107.3

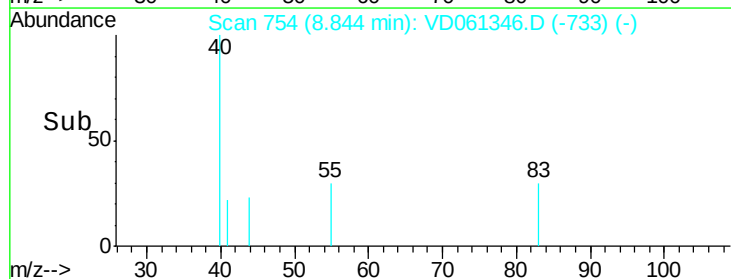
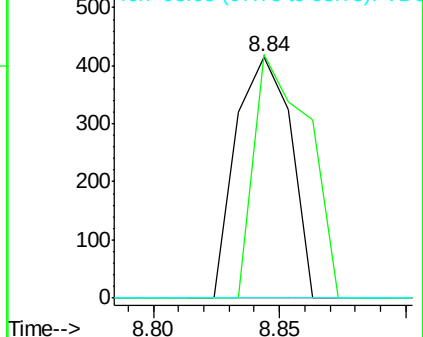
98 0.0 40.3 60.5#

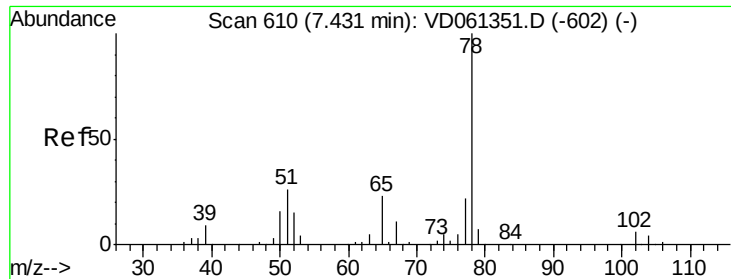


Abundance Ion 83.05 (82.75 to 83.75): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 98.05 (97.75 to 98.75): VDC





#40

Benzene

Concen: 19.827 ug/l

RT: 7.45 min Scan# 612

Delta R.T. 0.01 min

Lab File: VD061346.D

Acq: 27 Mar 2019 10:00

Instrument :

MSVOA\_D

ClientSampleId :

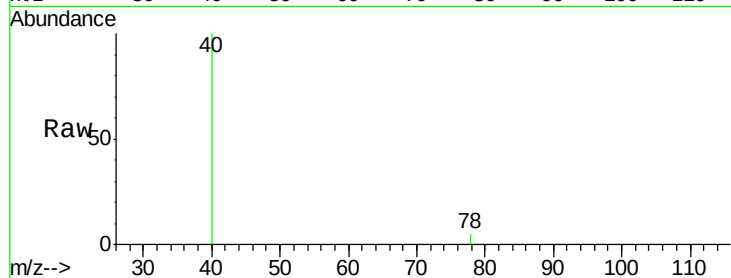
BFB

Tot Ion: 78 Resp: 1236

Ion Ratio Lower Upper

78 100

77 0.0 17.8 26.6#



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC

7.45

800

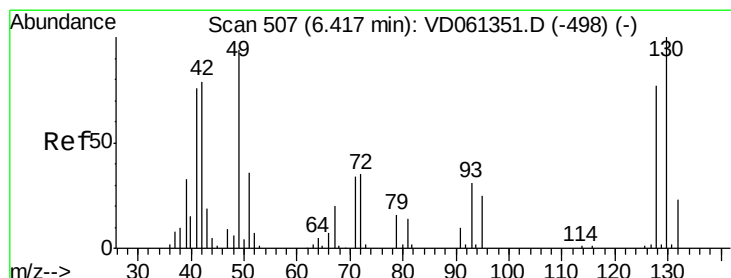
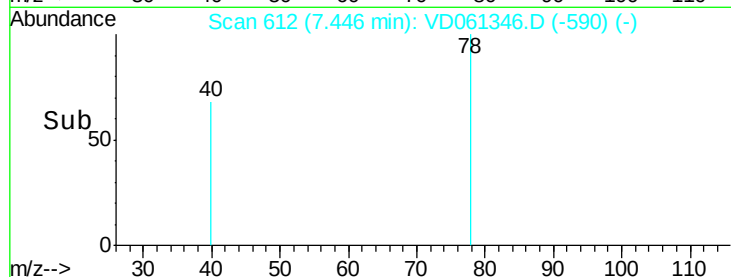
600

400

200

0

Time-->



#41

Methacrylonitrile

Concen: 144.997 ug/l

RT: 6.44 min Scan# 510

Delta R.T. 0.02 min

Lab File: VD061346.D

Acq: 27 Mar 2019 10:00

Tgt Ion: 41 Resp: 1801

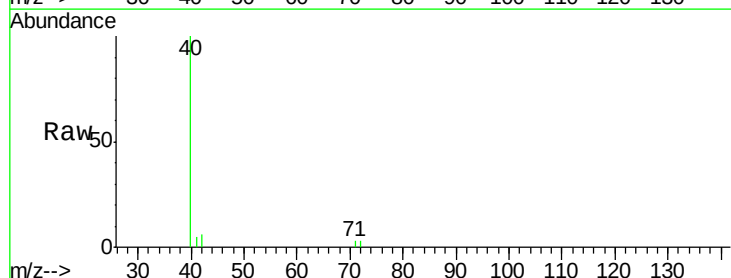
Ion Ratio Lower Upper

41 100

39 0.0 35.0 52.6#

67 0.0 21.0 31.6#

52 0.0 7.7 11.5#



Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

1000

800

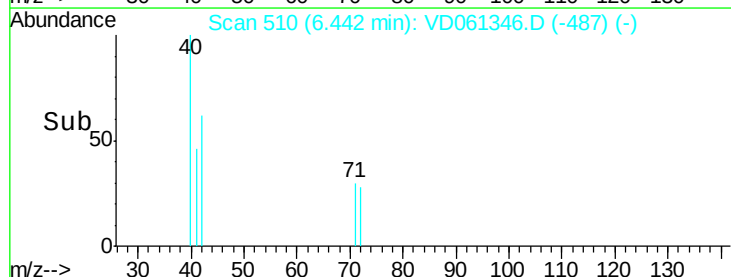
600

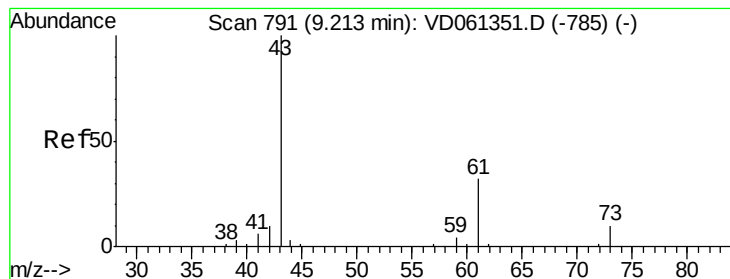
400

200

0

Time-->





#43

Isopropyl Acetate

Concen: 355.839 ug/l

RT: 9.53 min Scan# 824

Delta R.T. 0.32 min

Lab File: VD061346.D

Acq: 27 Mar 2019 10:00

Instrument :

MSVOA\_D

ClientSampleId :

BFB

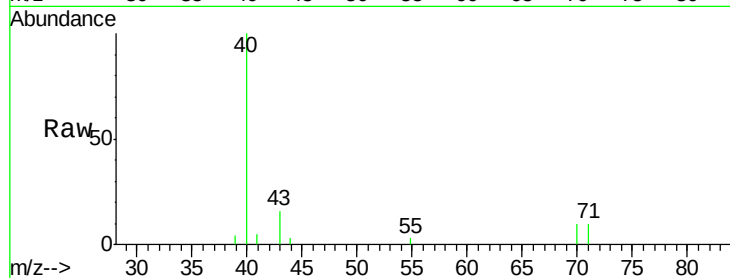
Tot Ion: 43 Resp: 5500

Ion Ratio Lower Upper

43 100

61 0.0 25.8 38.6#

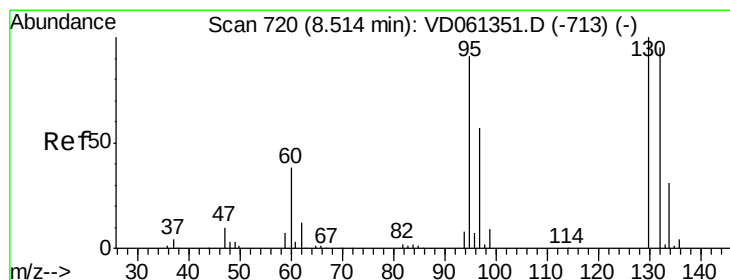
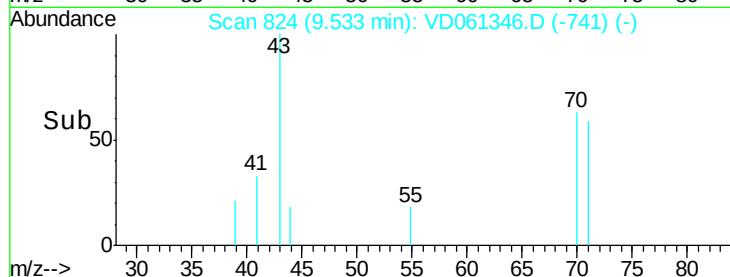
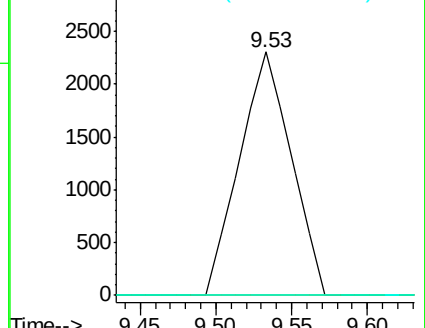
87 0.0 0.0 0.0



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 87.00 (86.70 to 87.70): VDC



#44

Trichloroethene

Concen: 10.388 ug/l

RT: 8.52 min Scan# 721

Delta R.T. 0.00 min

Lab File: VD061346.D

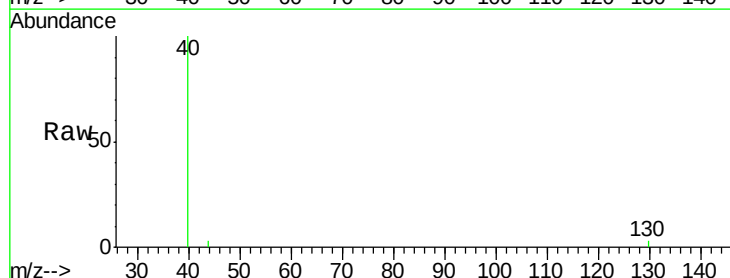
Acq: 27 Mar 2019 10:00

Tgt Ion:130 Resp: 241

Ion Ratio Lower Upper

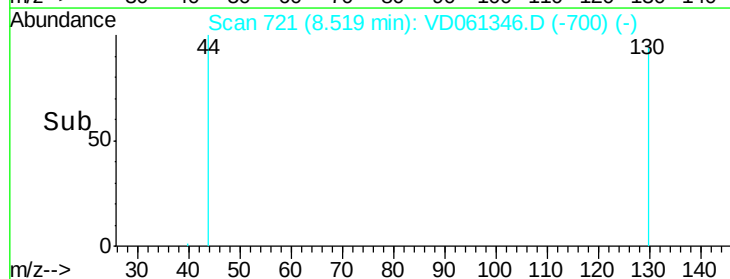
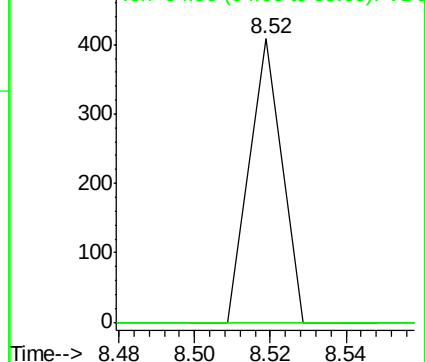
130 100

95 0.0 0.0 181.4

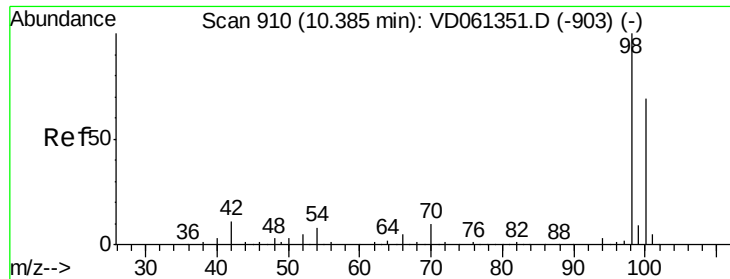


Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC



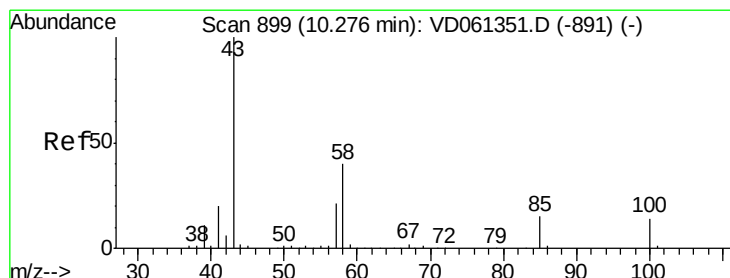
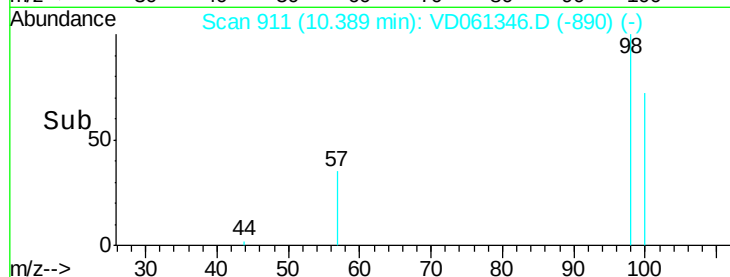
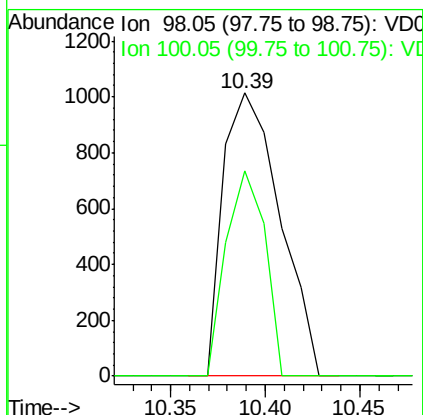
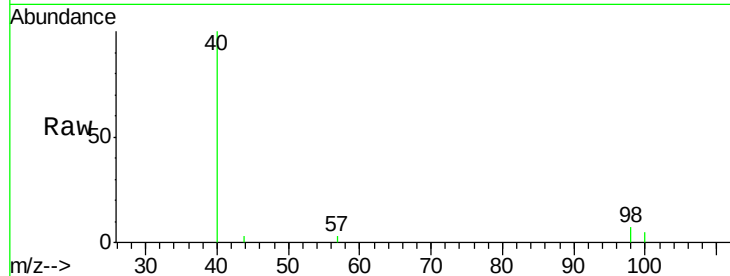




#50  
Toluene-d8  
Concen: N.D. ug/l  
RT: 10.39 min Scan# 911  
Delta R.T. 0.00 min  
Lab File: VD061346.D  
Acq: 27 Mar 2019 10:00

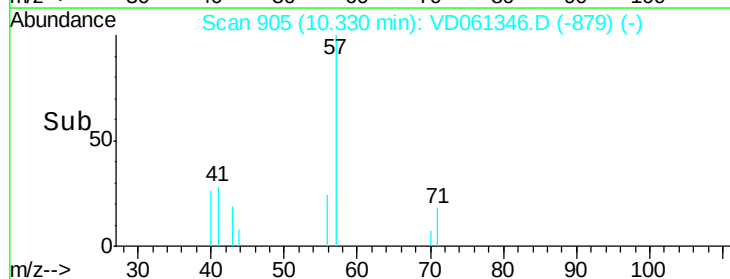
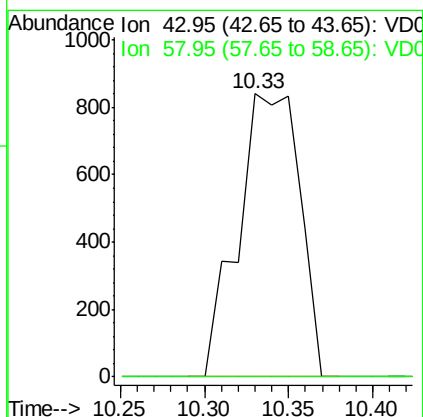
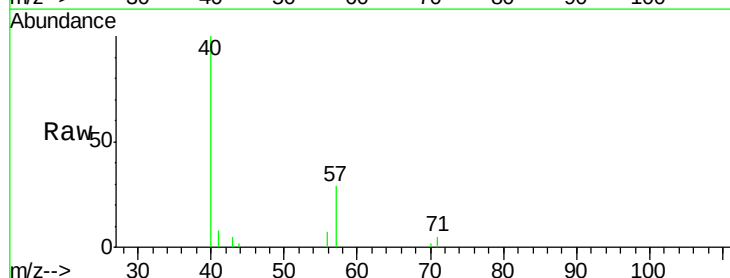
Instrument :  
MSVOA\_D  
ClientSampleId :  
BFB

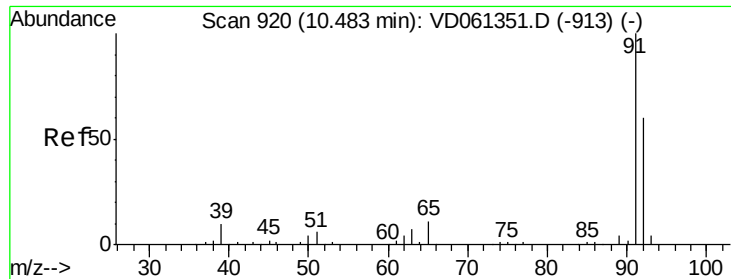
Tot Ion: 98 Resp: 2106  
Ion Ratio Lower Upper  
98 100  
100 72.5 56.2 84.2



#51  
4-Methyl-2-Pentanone  
Concen: 226.616 ug/l  
RT: 10.33 min Scan# 905  
Delta R.T. 0.05 min  
Lab File: VD061346.D  
Acq: 27 Mar 2019 10:00

Tgt Ion: 43 Resp: 2131  
Ion Ratio Lower Upper  
43 100  
58 0.0 31.8 47.8#





#52

Toluene

Concen: 33.078 ug/l

RT: 10.50 min Scan# 922

Delta R.T. 0.01 min

Lab File: VD061346.D

Acq: 27 Mar 2019 10:00

Instrument :

MSVOA\_D

ClientSampleId :

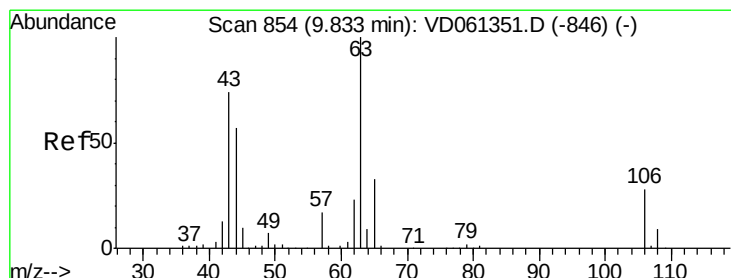
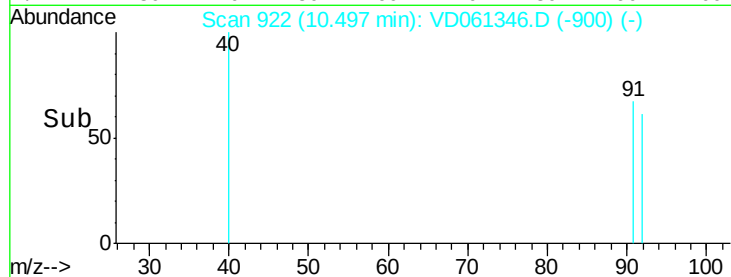
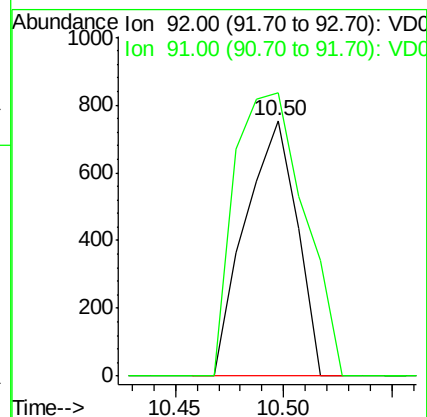
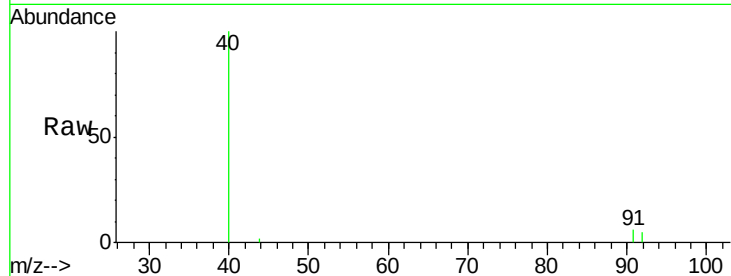
BFB

Tot Ion: 92 Resp: 1258

Ion Ratio Lower Upper

92 100

91 110.7 133.3 199.9#



#58

2-Chloroethyl Vinyl ether

Concen: 228.502 ug/l

RT: 9.84 min Scan# 855

Delta R.T. 0.00 min

Lab File: VD061346.D

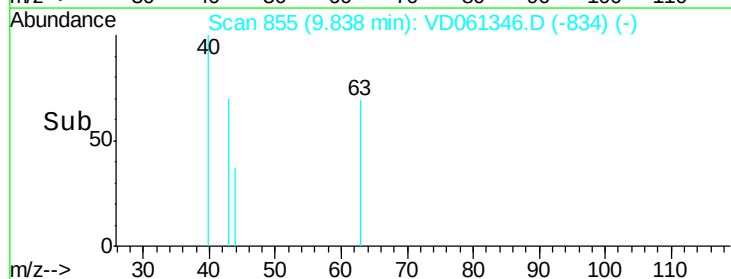
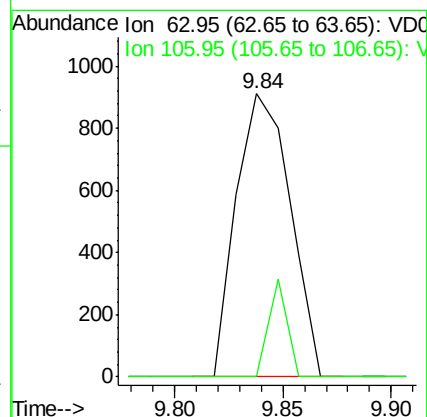
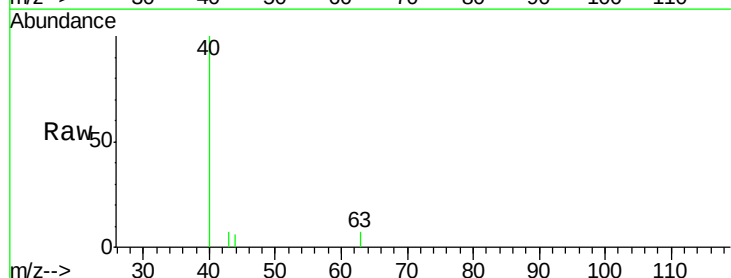
Acq: 27 Mar 2019 10:00

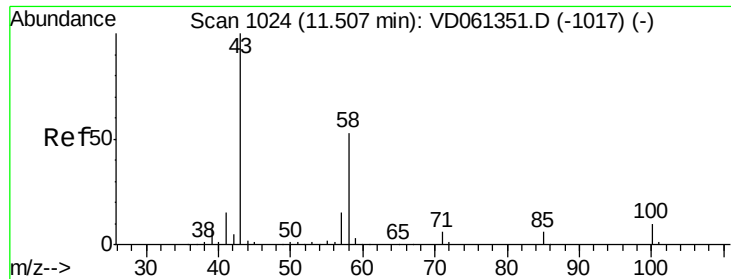
Tgt Ion: 63 Resp: 1590

Ion Ratio Lower Upper

63 100

106 0.0 22.4 33.6#

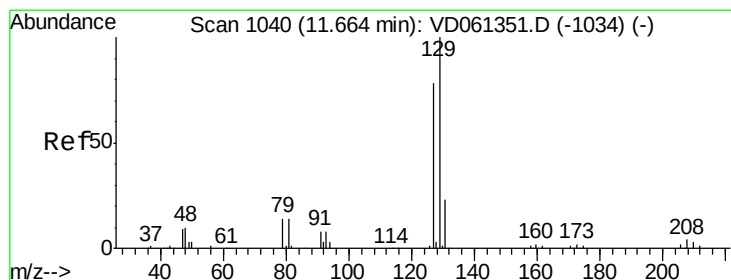
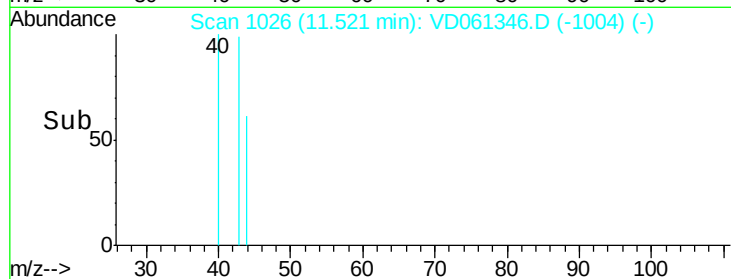
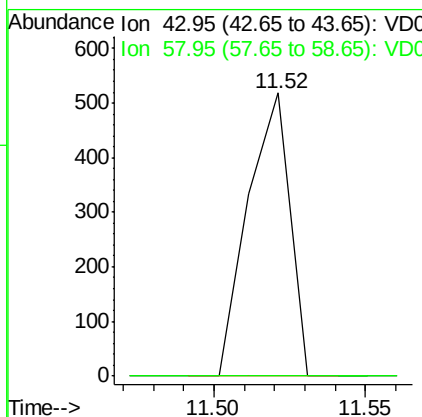
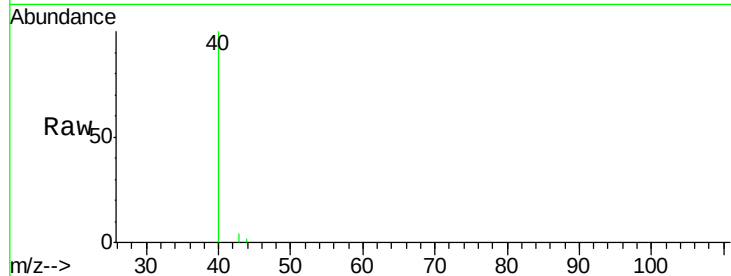




#59  
2-Hexanone  
Concen: 73.828 ug/l  
RT: 11.52 min Scan# 1026  
Delta R.T. 0.01 min  
Lab File: VD061346.D  
Acq: 27 Mar 2019 10:00

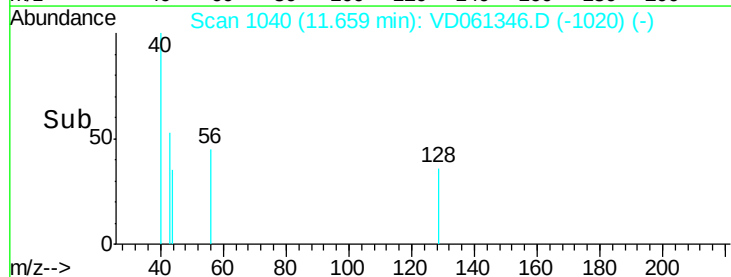
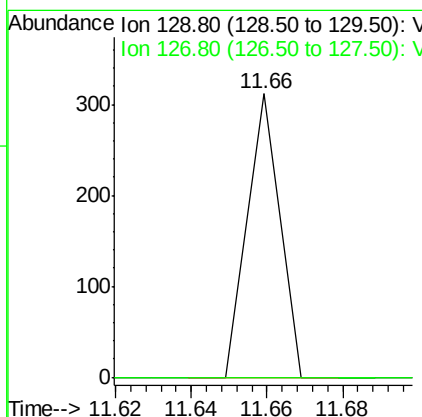
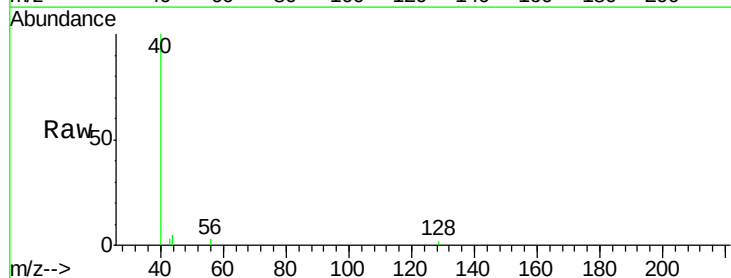
Instrument :  
MSVOA\_D  
ClientSampleId :  
BFB

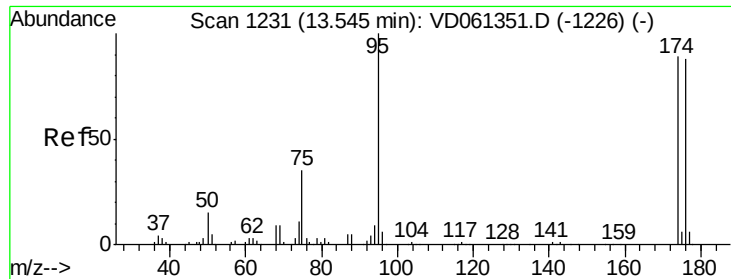
Tot Ion: 43 Resp: 503  
Ion Ratio Lower Upper  
43 100  
58 0.0 26.3 78.9#



#60  
Dibromochloromethane  
Concen: 8.974 ug/l  
RT: 11.66 min Scan# 1040  
Delta R.T. -0.01 min  
Lab File: VD061346.D  
Acq: 27 Mar 2019 10:00

Tgt Ion: 129 Resp: 184  
Ion Ratio Lower Upper  
129 100  
127 0.0 39.0 116.9#

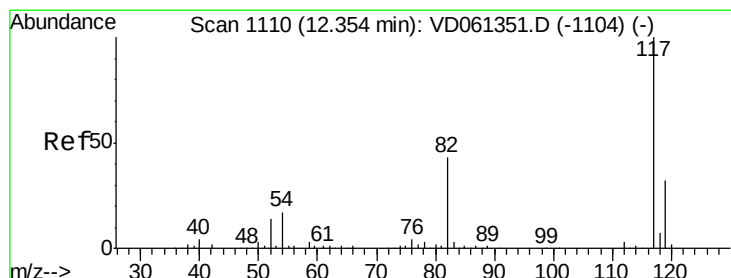
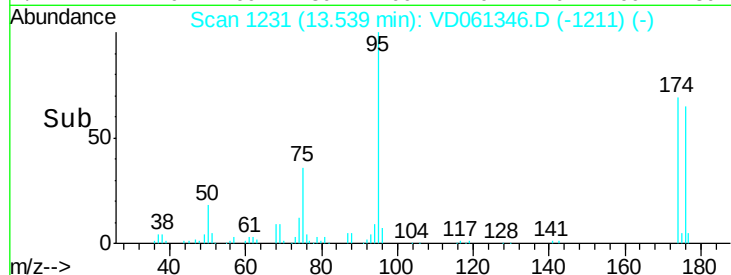
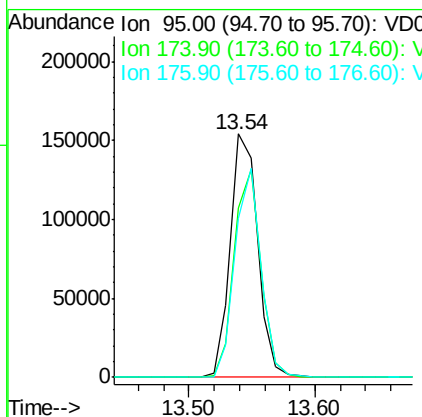
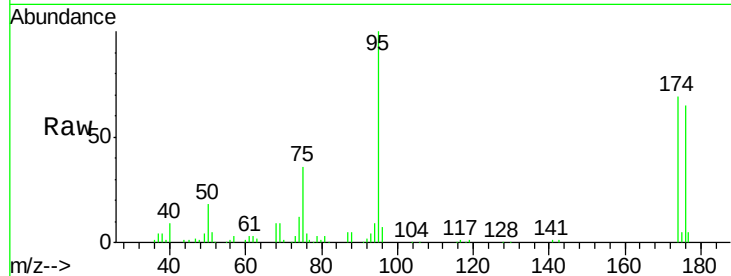




#62  
4-Bromofluorobenzene  
Concen: N.D. ug/l  
RT: 13.54 min Scan# 1231  
Delta R.T. -0.01 min  
Lab File: VD061346.D  
Acq: 27 Mar 2019 10:00

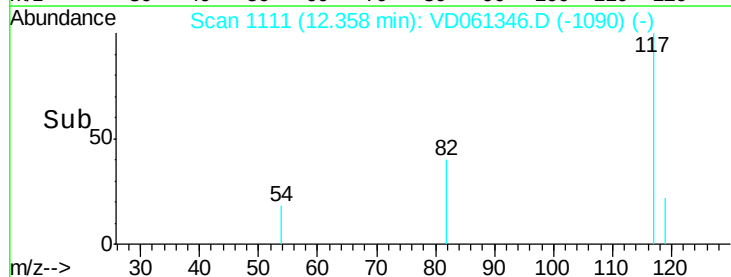
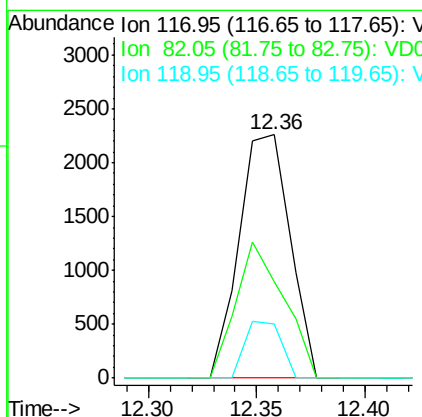
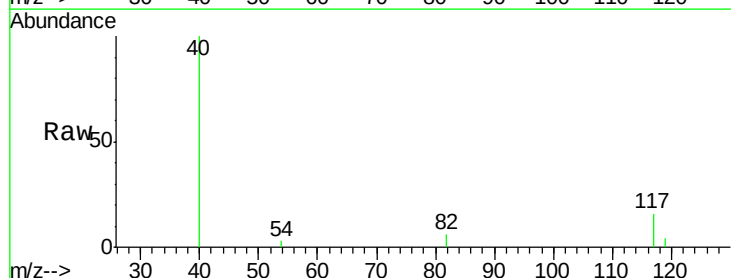
Instrument :  
MSVOA\_D  
ClientSampled :  
BFB

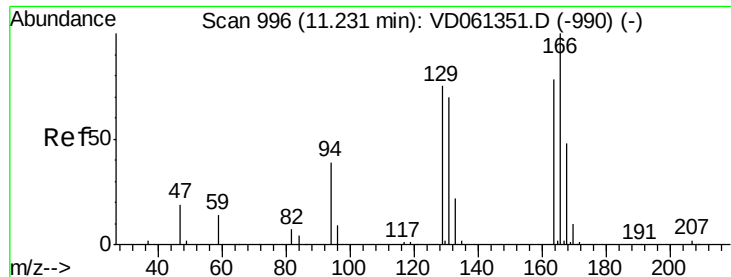
Tot Ion: 95 Resp: 229767  
Ion Ratio Lower Upper  
95 100  
174 69.5 0.0 178.0  
176 65.4 0.0 175.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 12.36 min Scan# 1111  
Delta R.T. 0.00 min  
Lab File: VD061346.D  
Acq: 27 Mar 2019 10:00

Tgt Ion: 117 Resp: 3692  
Ion Ratio Lower Upper  
117 100  
82 39.7 34.4 51.6  
119 22.3 25.8 38.6#

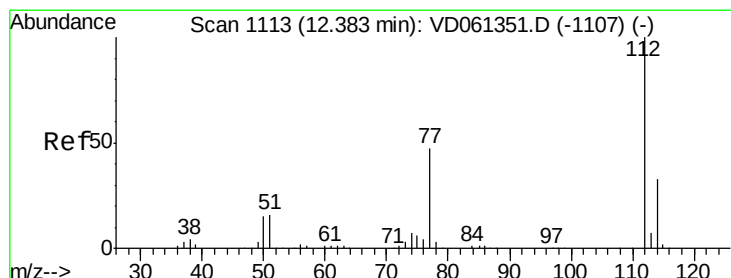
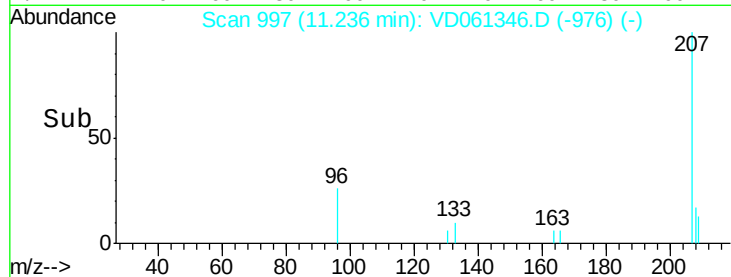
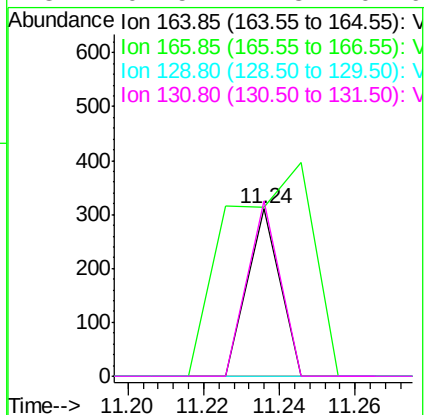
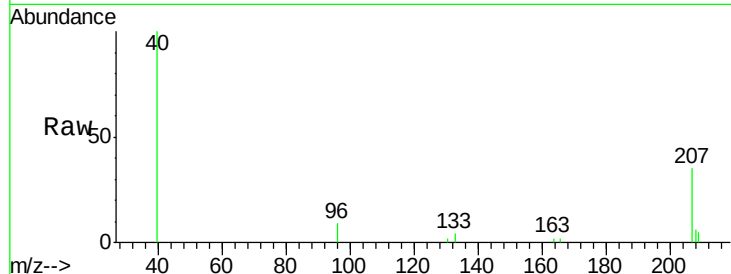




#64  
Tetrachloroethene  
Concen: 6.350 ug/l  
RT: 11.24 min Scan# 997  
Delta R.T. 0.00 min  
Lab File: VD061346.D  
Acq: 27 Mar 2019 10:00

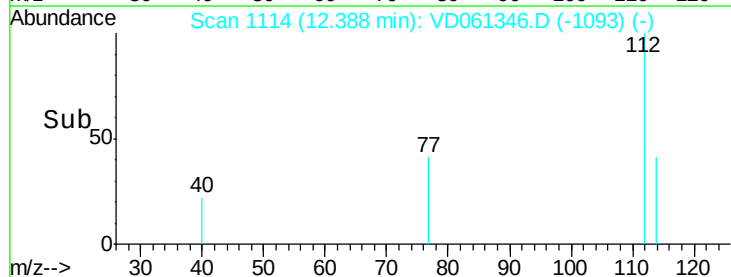
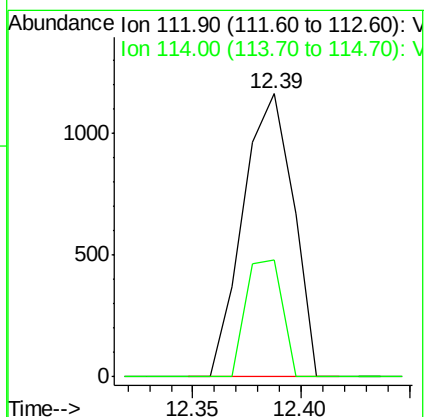
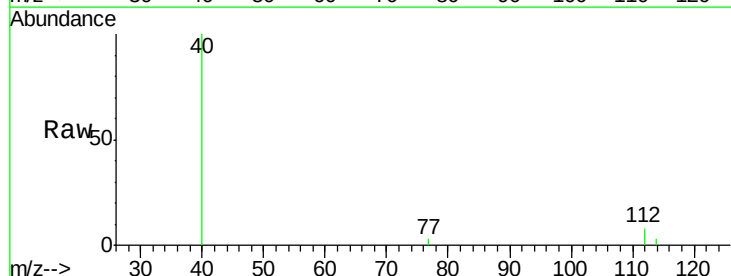
Instrument :  
MSVOA\_D  
ClientSampleId :  
BFB

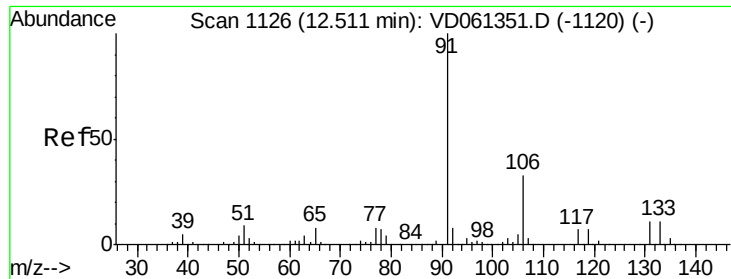
Tot Ion:164 Resp: 184  
Ion Ratio Lower Upper  
164 100  
166 100.6 102.4 153.6#  
129 0.0 76.8 115.2#  
131 104.5 71.8 107.6



#65  
Chlorobenzene  
Concen: 24.744 ug/l  
RT: 12.39 min Scan# 1114  
Delta R.T. 0.00 min  
Lab File: VD061346.D  
Acq: 27 Mar 2019 10:00

Tgt Ion:112 Resp: 1867  
Ion Ratio Lower Upper  
112 100  
114 41.2 26.6 39.8#

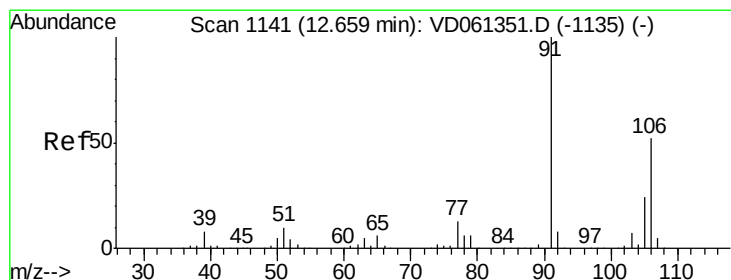
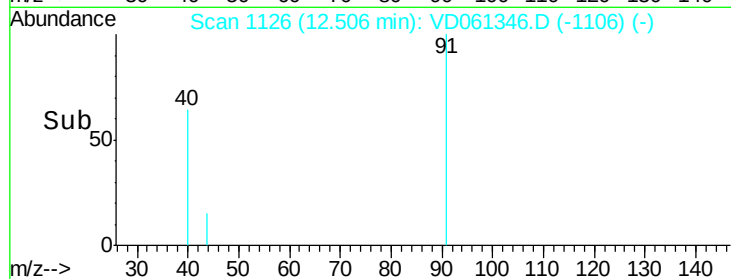
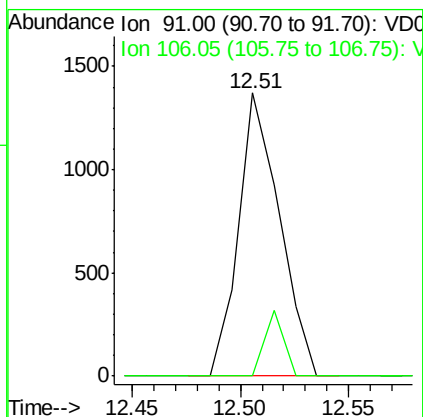
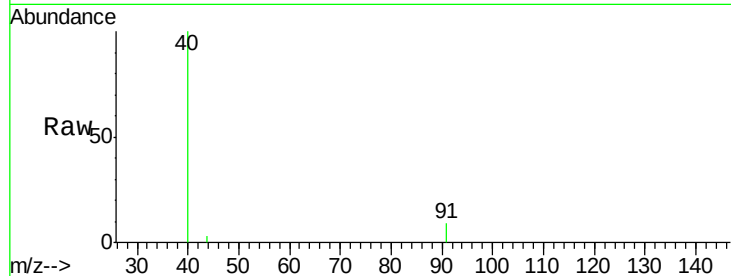




#67  
Ethyl Benzene  
Concen: 15.664 ug/l  
RT: 12.51 min Scan# 1126  
Delta R.T. -0.01 min  
Lab File: VD061346.D  
Acq: 27 Mar 2019 10:00

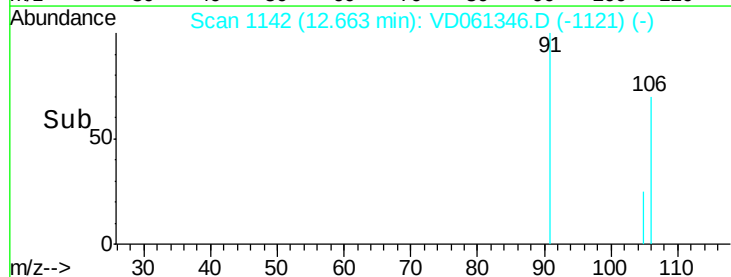
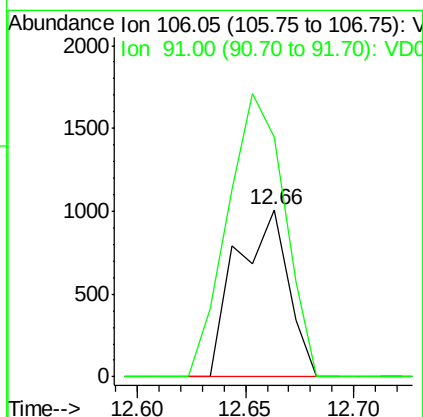
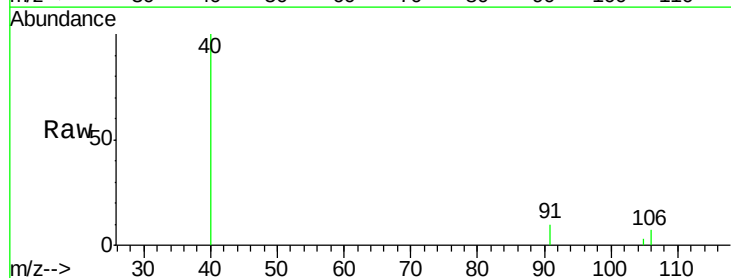
Instrument :  
MSVOA\_D  
ClientSampled :  
BFB

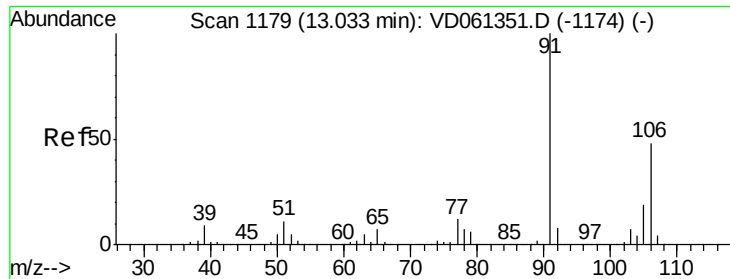
Tot Ion: 91 Resp: 1804  
Ion Ratio Lower Upper  
91 100  
106 0.0 26.1 39.1#



#68  
m/p-Xylenes  
Concen: 38.303 ug/l  
RT: 12.66 min Scan# 1142  
Delta R.T. 0.00 min  
Lab File: VD061346.D  
Acq: 27 Mar 2019 10:00

Tgt Ion: 106 Resp: 1671  
Ion Ratio Lower Upper  
106 100  
91 143.5 153.1 229.7#

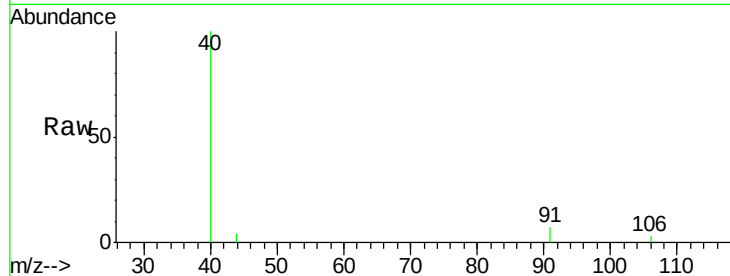




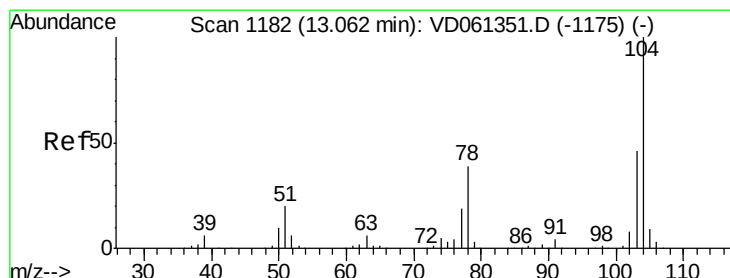
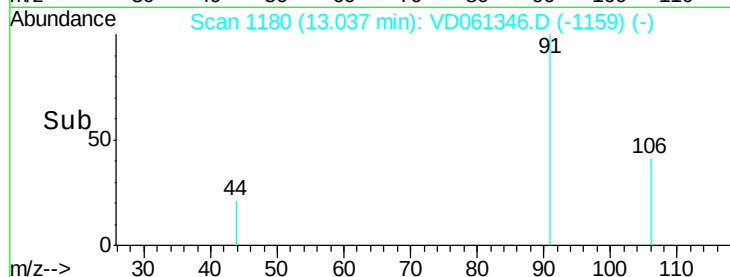
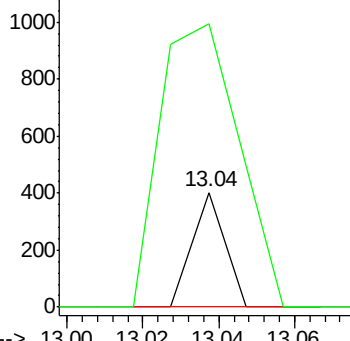
#69  
o-Xylene  
Concen: 5.622 ug/l  
RT: 13.04 min Scan# 1180  
Delta R.T. 0.00 min  
Lab File: VD061346.D  
Acq: 27 Mar 2019 10:00

Instrument :  
MSVOA\_D  
ClientSampleId :  
BFB

Tot Ion:106 Resp: 238  
Ion Ratio Lower Upper  
106 100  
91 246.4 103.8 311.3

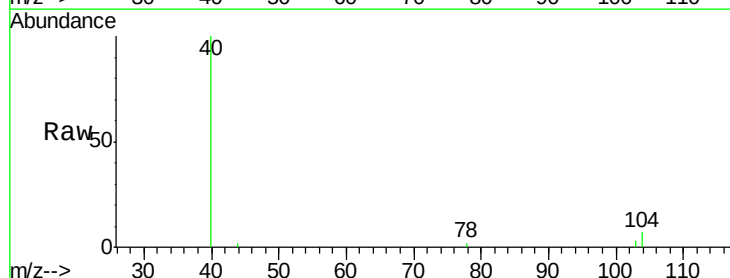


Abundance Ion 106.05 (105.75 to 106.75): V  
Ion 91.00 (90.70 to 91.70): V

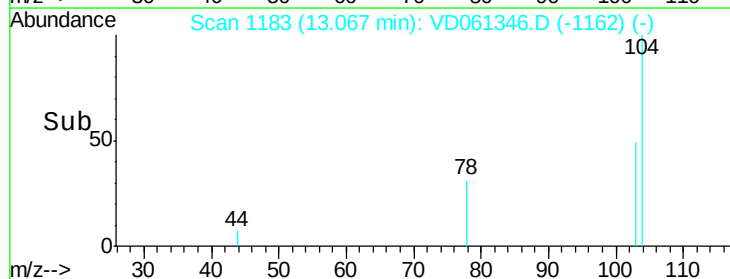
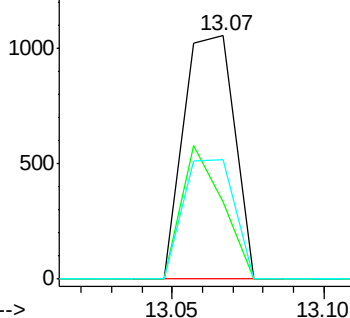


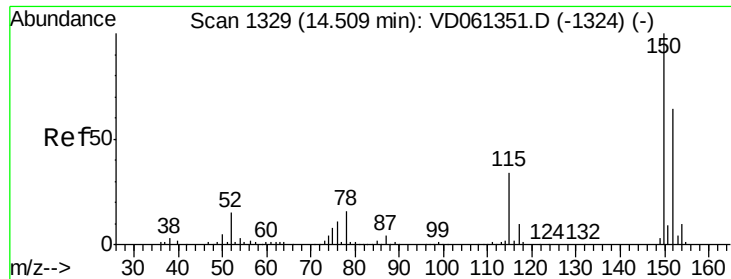
#70  
Styrene  
Concen: 16.640 ug/l  
RT: 13.07 min Scan# 1183  
Delta R.T. 0.00 min  
Lab File: VD061346.D  
Acq: 27 Mar 2019 10:00

Tgt Ion:104 Resp: 1228  
Ion Ratio Lower Upper  
104 100  
78 31.5 31.0 46.6  
103 49.3 37.0 55.4



Abundance Ion 104.05 (103.75 to 104.75): V  
Ion 77.95 (77.65 to 78.65): V  
Ion 103.05 (102.75 to 103.75): V



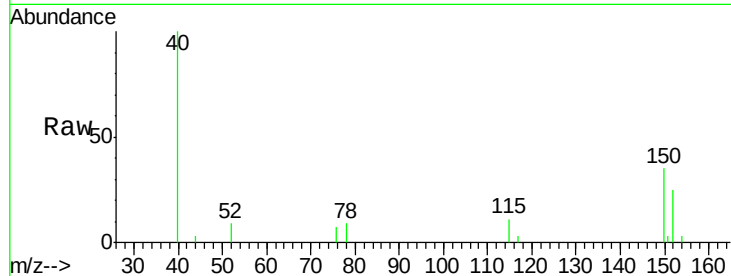


#72

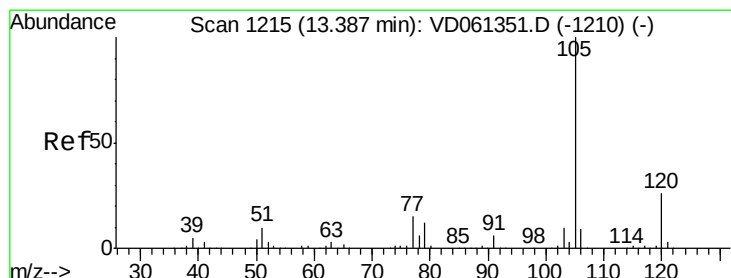
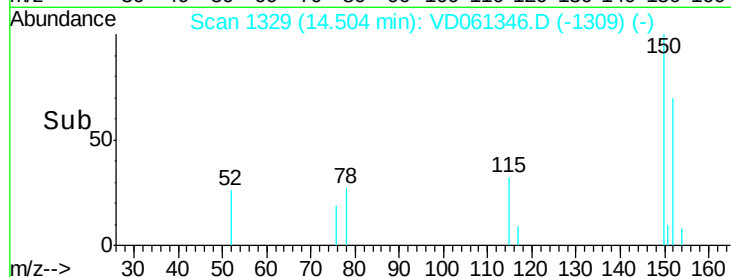
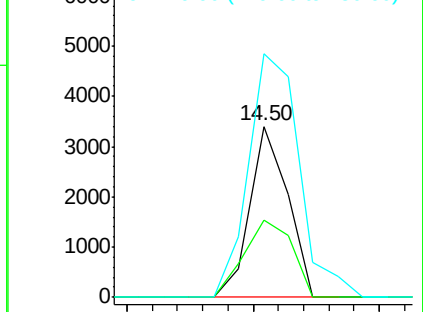
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 14.50 min Scan# 1329  
Delta R.T. -0.01 min  
Lab File: VD061346.D  
Acq: 27 Mar 2019 10:00

Instrument :  
MSVOA\_D  
ClientSampled :  
BFB

Tot Ion:152 Resp: 3551  
Ion Ratio Lower Upper  
152 100  
115 45.2 26.9 80.6  
150 142.5 0.0 318.0



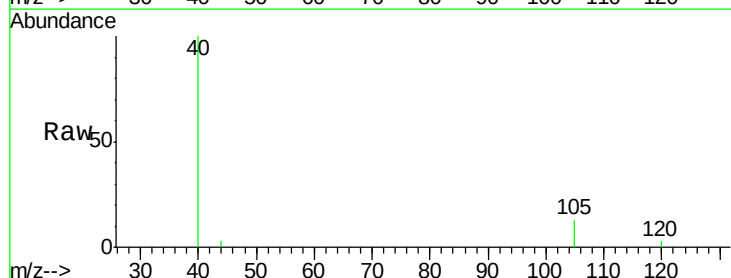
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 115.00 (114.70 to 115.70): V  
Ion 149.90 (149.60 to 150.60): V



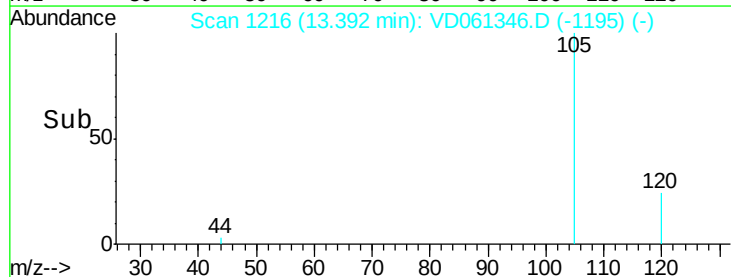
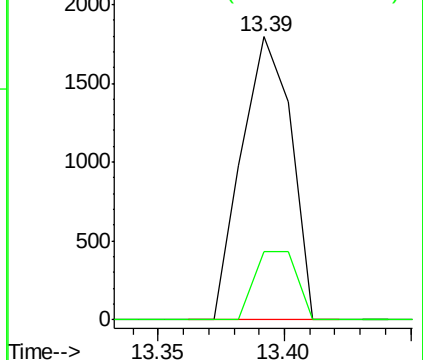
#73

Isopropylbenzene  
Concen: 9.917 ug/l  
RT: 13.39 min Scan# 1216  
Delta R.T. 0.00 min  
Lab File: VD061346.D  
Acq: 27 Mar 2019 10:00

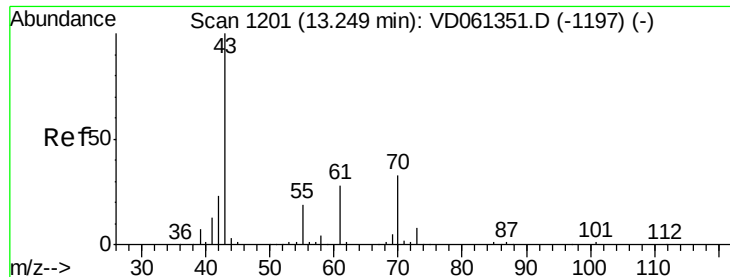
Tgt Ion:105 Resp: 2451  
Ion Ratio Lower Upper  
105 100  
120 24.0 12.8 38.3



Abundance Ion 105.05 (104.75 to 105.75): V  
Ion 120.05 (119.75 to 120.75): V







#74

N-amvl acetate

Concen: 7.553 ug/l

RT: 13.25 min Scan# 1202

Delta R.T. 0.00 min

Lab File: VD061346.D

Acq: 27 Mar 2019 10:00

Instrument :

MSVOA\_D

ClientSampleId :

BFB

Tot Ion: 43 Resp: 520

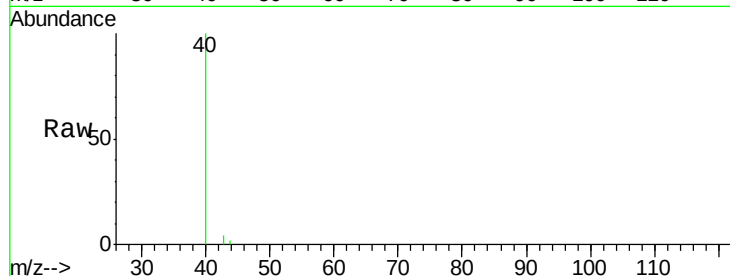
Ion Ratio Lower Upper

43 100

70 0.0 26.6 40.0#

55 0.0 15.4 23.2#

61 0.0 22.2 33.4#

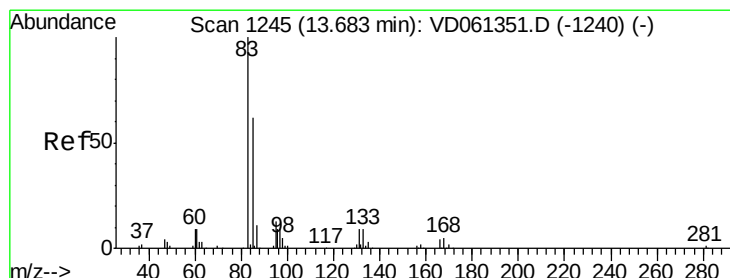
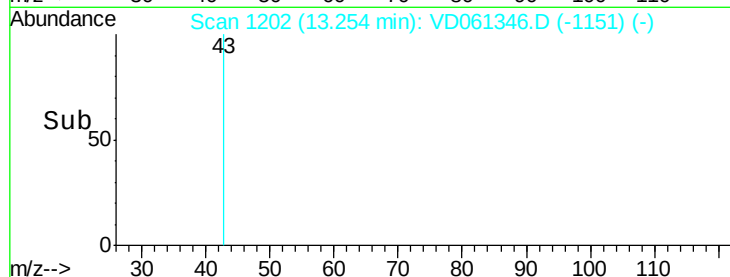
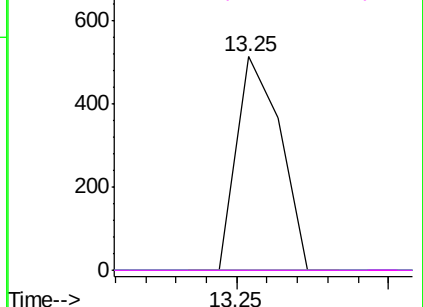


Abundance Ion 42.95 (42.65 to 43.65): VDC

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: 4.527 ug/l

RT: 13.69 min Scan# 1246

Delta R.T. 0.00 min

Lab File: VD061346.D

Acq: 27 Mar 2019 10:00

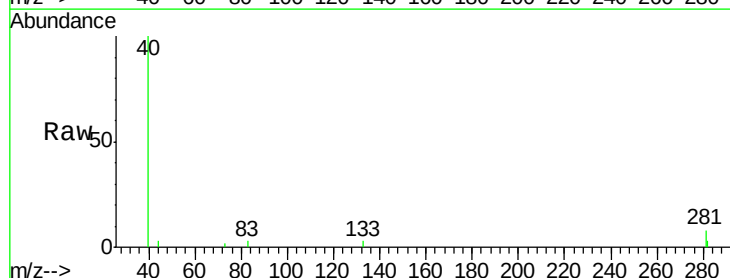
Tgt Ion: 83 Resp: 236

Ion Ratio Lower Upper

83 100

131 0.0 4.3 13.1#

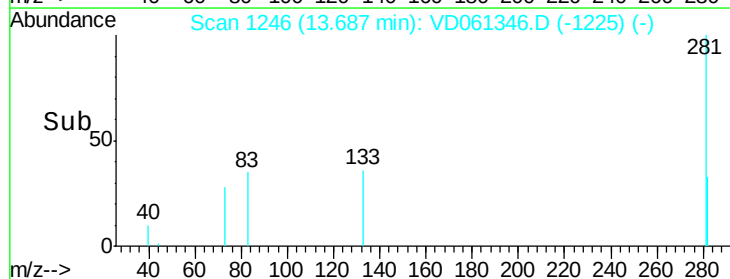
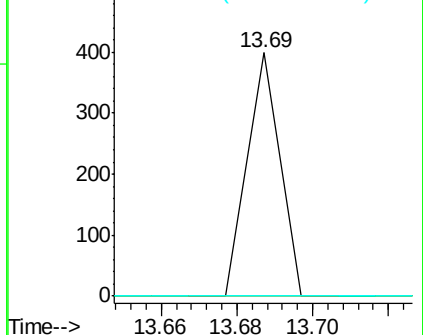
85 0.0 31.2 93.6#

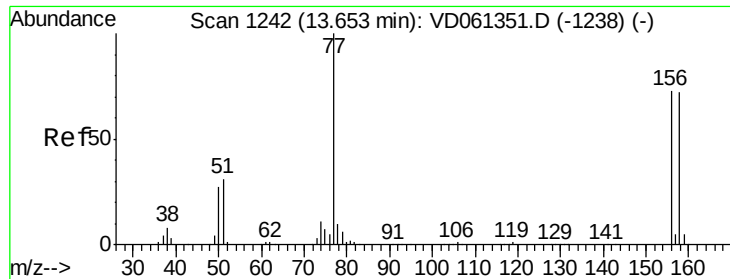


Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): V

Ion 84.95 (84.65 to 85.65): VDC





#77

Bromobenzene

Concen: 11.547 ug/l

RT: 13.66 min Scan# 1243

Delta R.T. 0.00 min

Lab File: VD061346.D

Acq: 27 Mar 2019 10:00

Instrument :

MSVOA\_D

ClientSampled :

BFB

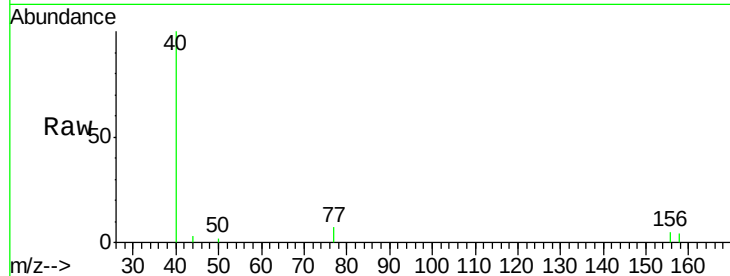
Tot Ion:156 Resp: 846

Ion Ratio Lower Upper

156 100

77 141.4 68.5 205.6

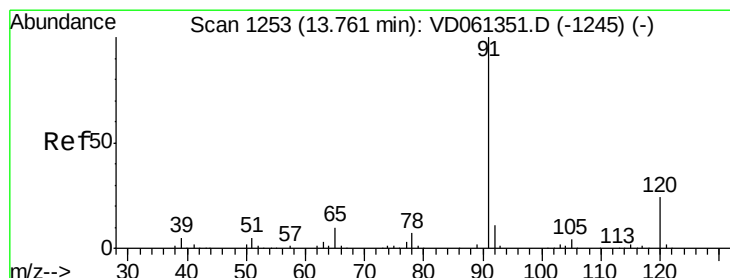
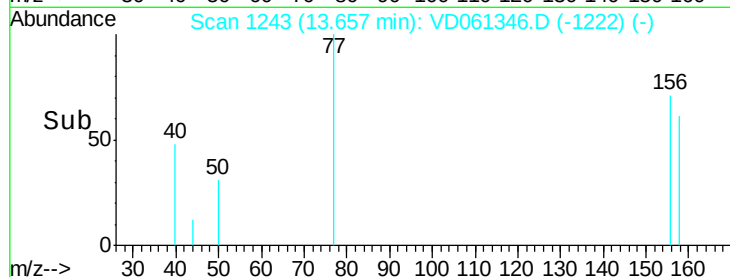
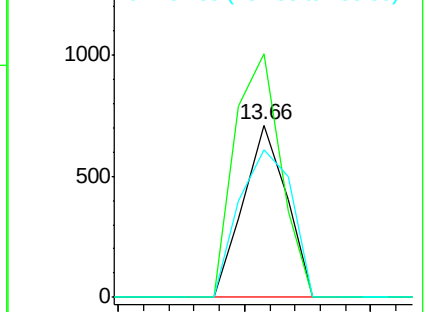
158 86.1 49.1 147.3



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: 9.846 ug/l

RT: 13.77 min Scan# 1254

Delta R.T. 0.00 min

Lab File: VD061346.D

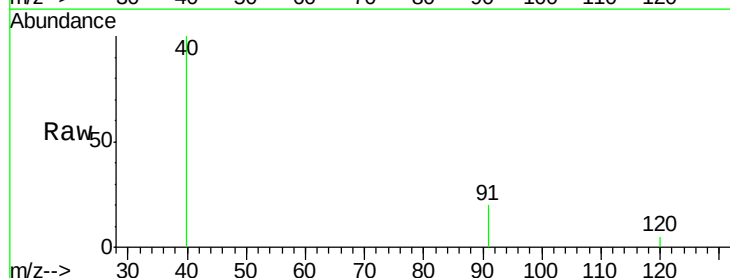
Acq: 27 Mar 2019 10:00

Tgt Ion: 91 Resp: 2978

Ion Ratio Lower Upper

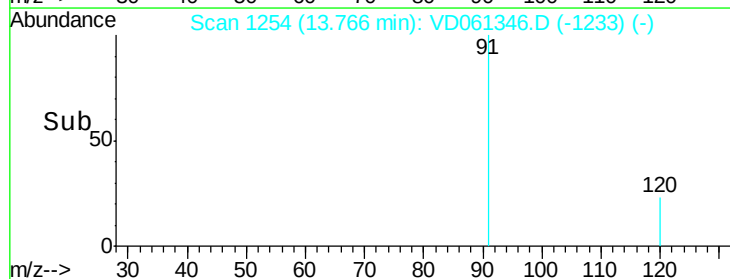
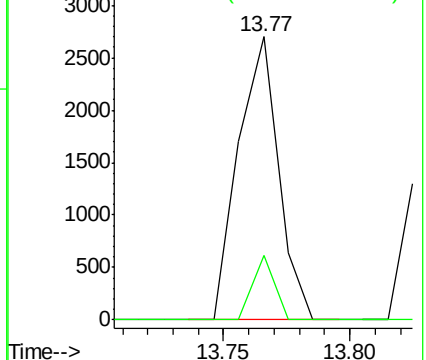
91 100

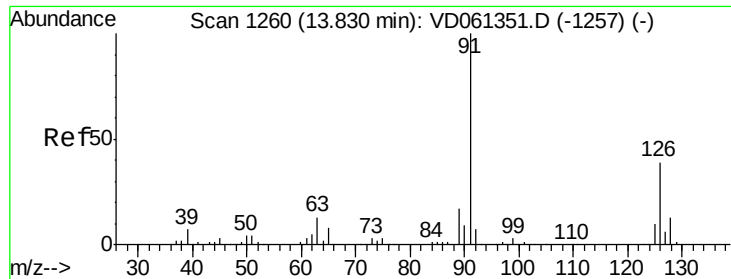
120 22.6 11.8 35.3



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V

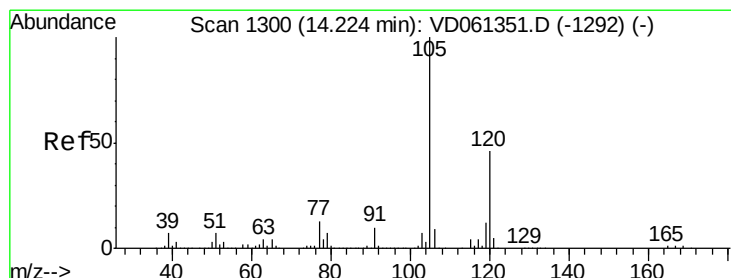
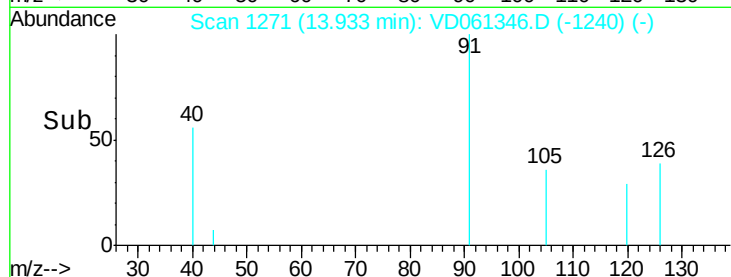
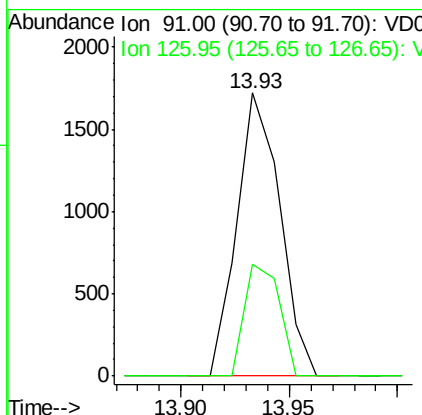
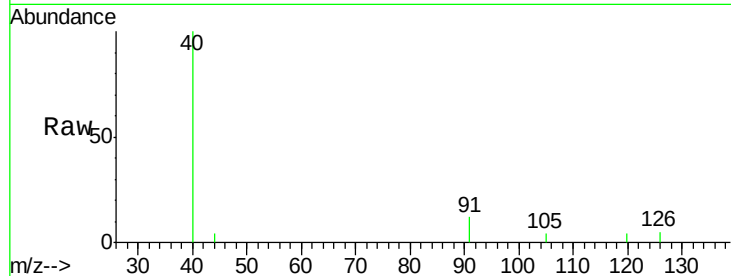




#79  
 2-Chlorotoluene  
 Concen: 14.474 ug/l  
 RT: 13.93 min Scan# 1271  
 Delta R.T. 0.10 min  
 Lab File: VD061346.D  
 Acq: 27 Mar 2019 10:00

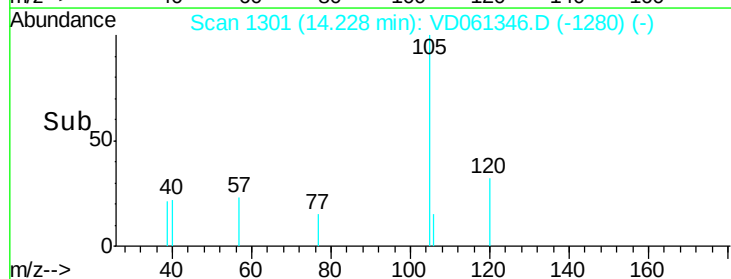
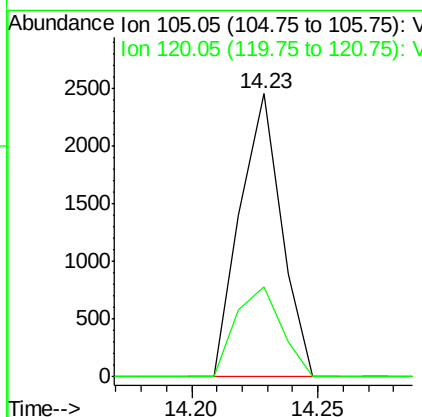
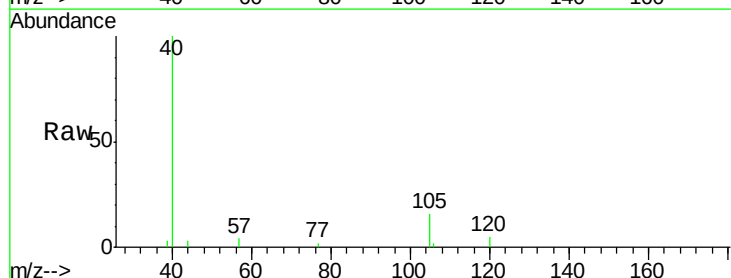
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 BFB

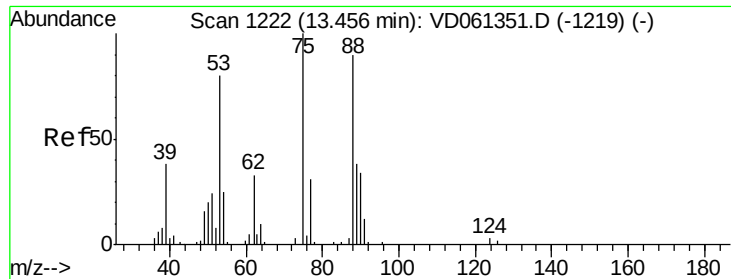
Tot Ion: 91 Resp: 2377  
 Ion Ratio Lower Upper  
 91 100  
 126 39.4 19.4 58.2



#80  
 1,3,5-Trimethylbenzene  
 Concen: 13.507 ug/l  
 RT: 14.23 min Scan# 1301  
 Delta R.T. 0.00 min  
 Lab File: VD061346.D  
 Acq: 27 Mar 2019 10:00

Tgt Ion: 105 Resp: 2804  
 Ion Ratio Lower Upper  
 105 100  
 120 31.8 22.8 68.4





#81

trans-1,4-Dichloro-2-butene

Concen: 5267.294 ug/l

RT: 13.54 min Scan# 1231

Delta R.T. 0.08 min

Lab File: VD061346.D

Acq: 27 Mar 2019 10:00

Instrument :

MSVOA\_D

ClientSampled :

BFB

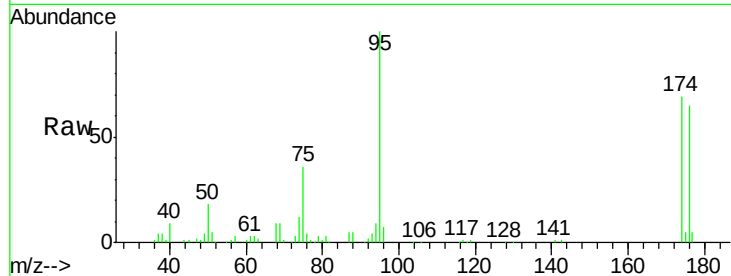
Tot Ion: 75 Resp: 82380

Ion Ratio Lower Upper

75 100

53 0.0 63.8 95.8#

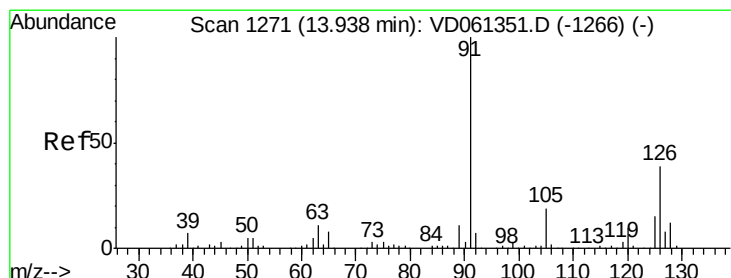
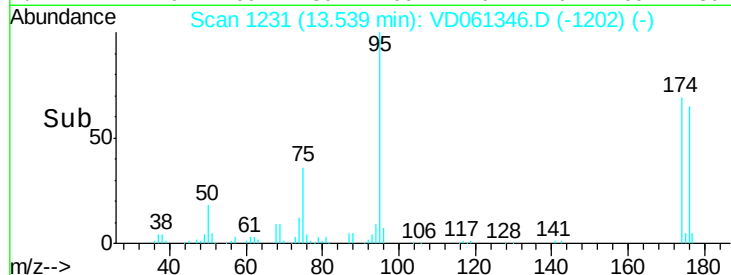
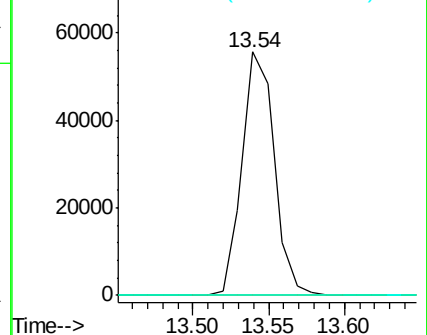
89 0.0 30.5 45.7#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC



#82

4-Chlorotoluene

Concen: 13.312 ug/l

RT: 13.93 min Scan# 1271

Delta R.T. -0.01 min

Lab File: VD061346.D

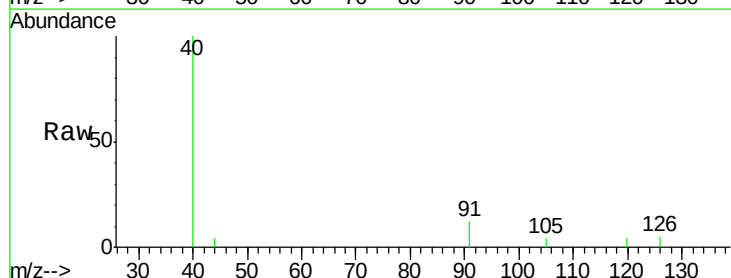
Acq: 27 Mar 2019 10:00

Tgt Ion: 91 Resp: 2377

Ion Ratio Lower Upper

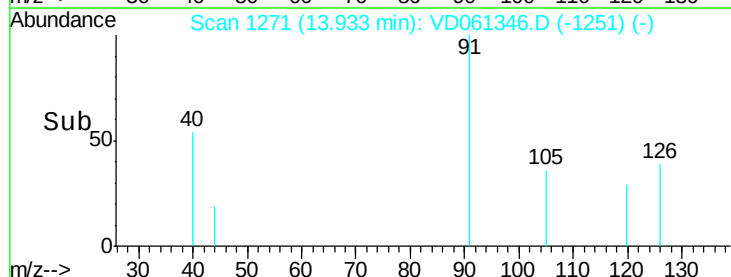
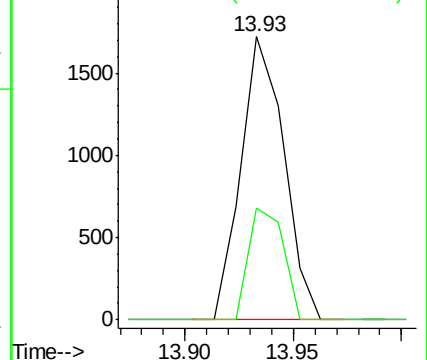
91 100

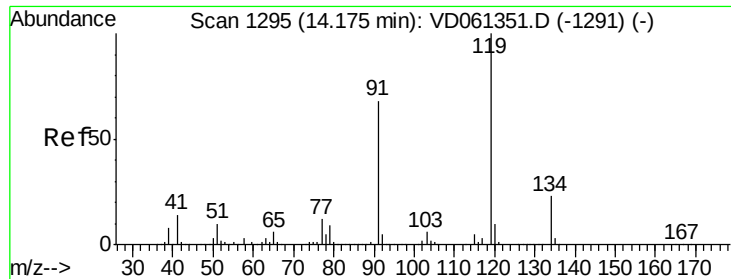
126 39.4 19.6 58.8



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V





#83

tert-Butylbenzene

Concen: 6.284 ug/l

RT: 14.18 min Scan# 1296

Delta R.T. 0.00 min

Lab File: VD061346.D

Acq: 27 Mar 2019 10:00

Instrument :

MSVOA\_D

ClientSampleId :

BFB

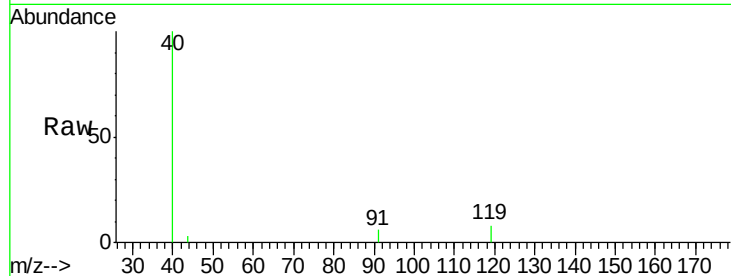
Tot Ion:119 Resp: 1506

Ion Ratio Lower Upper

119 100

91 78.4 34.1 102.3

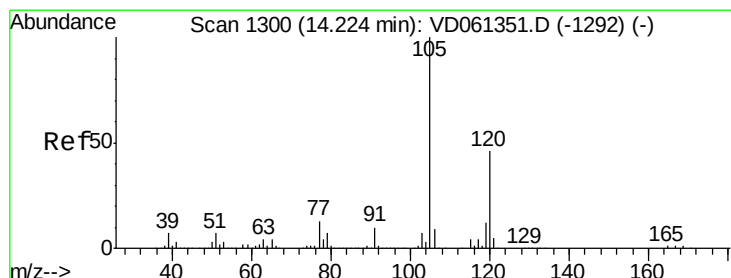
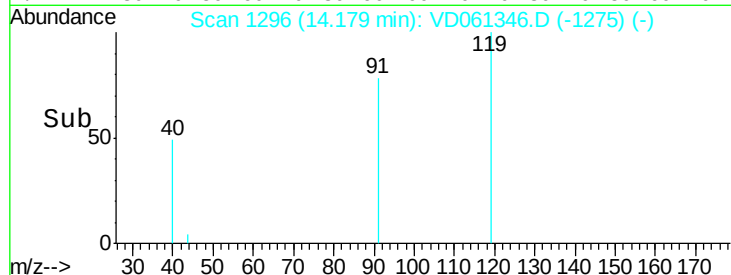
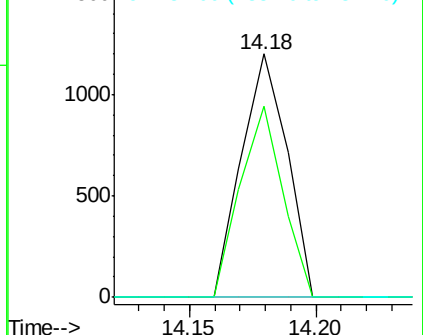
134 0.0 11.6 34.8#



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: 13.507 ug/l

RT: 14.23 min Scan# 1301

Delta R.T. 0.00 min

Lab File: VD061346.D

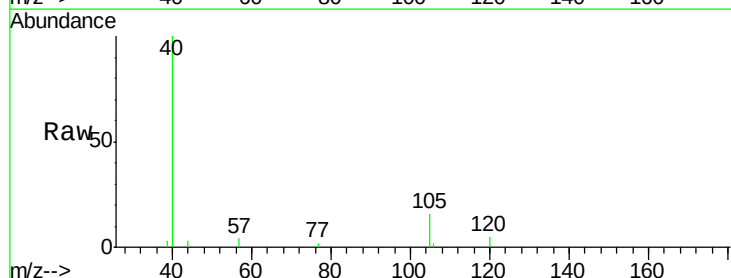
Acq: 27 Mar 2019 10:00

Tgt Ion:105 Resp: 2804

Ion Ratio Lower Upper

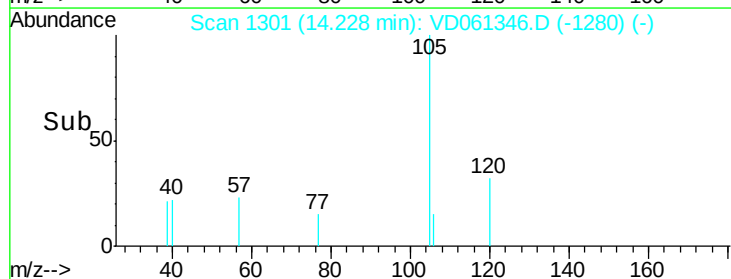
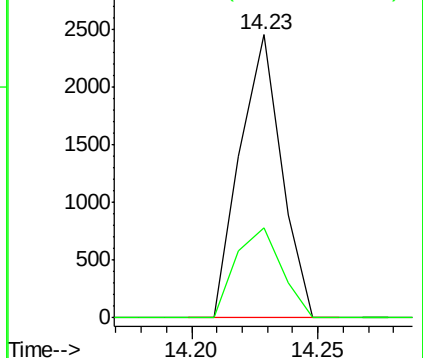
105 100

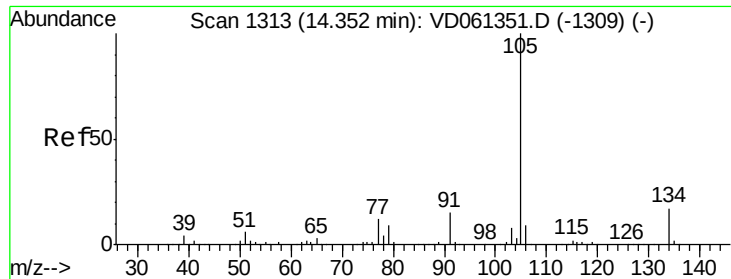
120 31.8 22.8 68.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#85

sec-Butylbenzene

Concen: 9.239 ug/l

RT: 14.36 min Scan# 1314

Delta R.T. 0.00 min

Lab File: VD061346.D

Acq: 27 Mar 2019 10:00

Instrument :

MSVOA\_D

ClientSampleId :

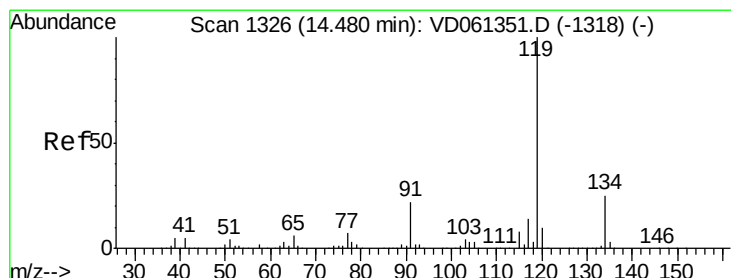
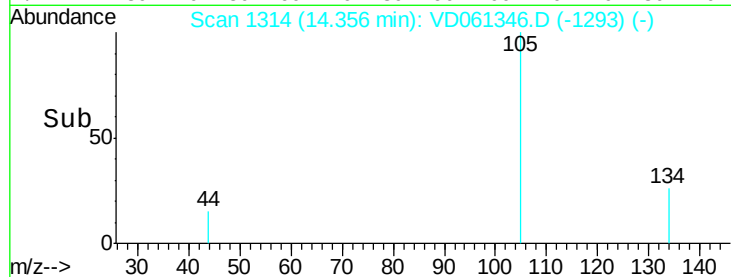
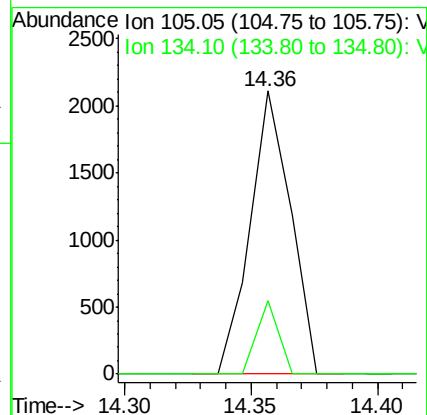
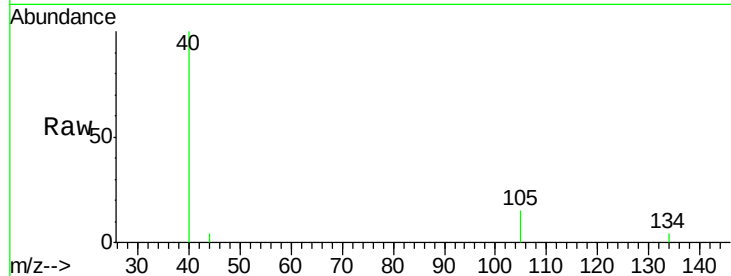
BFB

Tot Ion:105 Resp: 2352

Ion Ratio Lower Upper

105 100

134 25.9 8.7 26.1



#86

p-Isopropyltoluene

Concen: 7.576 ug/l

RT: 14.47 min Scan# 1326

Delta R.T. -0.01 min

Lab File: VD061346.D

Acq: 27 Mar 2019 10:00

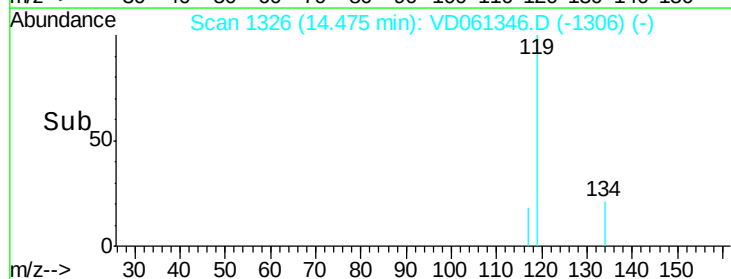
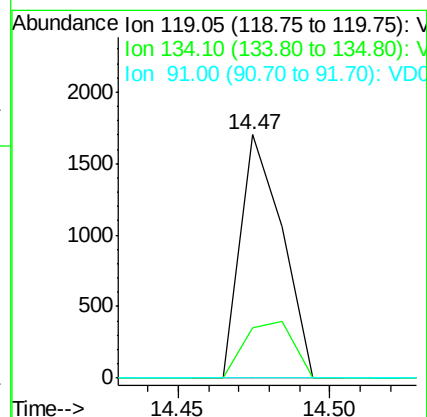
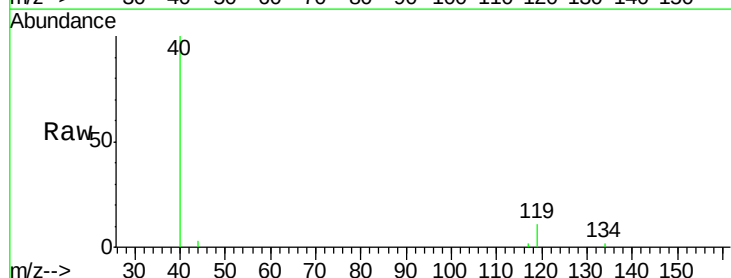
Tgt Ion:119 Resp: 1631

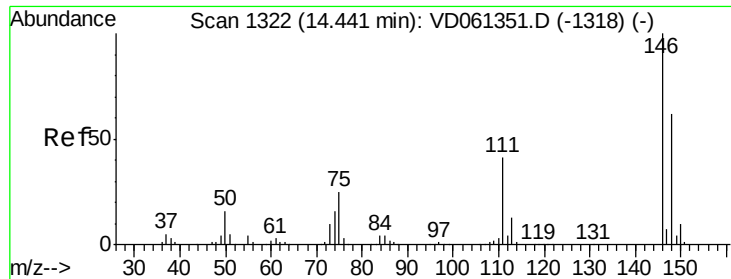
Ion Ratio Lower Upper

119 100

134 20.8 12.3 36.8

91 0.0 11.1 33.1#

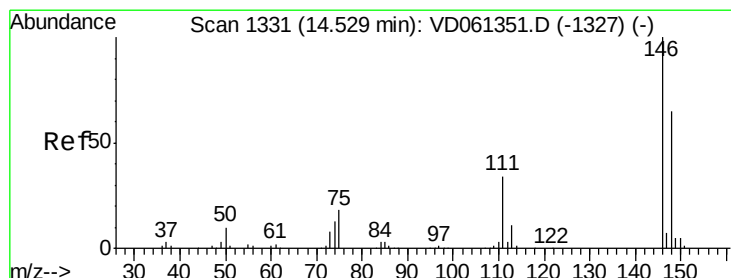
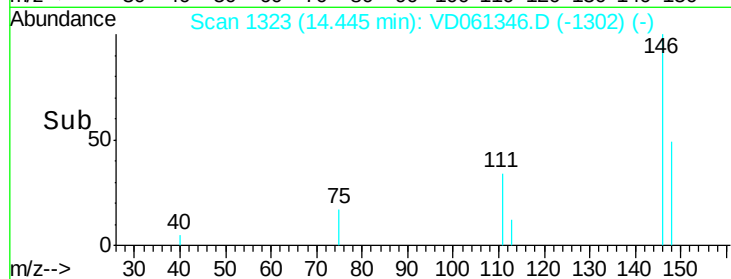
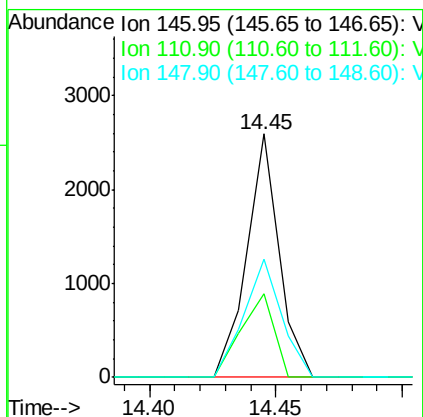
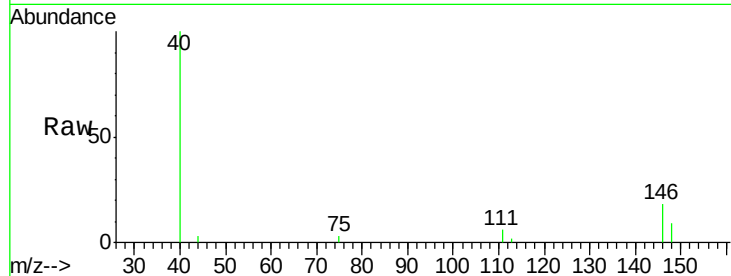




#87  
 1,3-Dichlorobenzene  
 Concen: 18.521 ug/l  
 RT: 14.45 min Scan# 1323  
 Delta R.T. 0.00 min  
 Lab File: VD061346.D  
 Acq: 27 Mar 2019 10:00

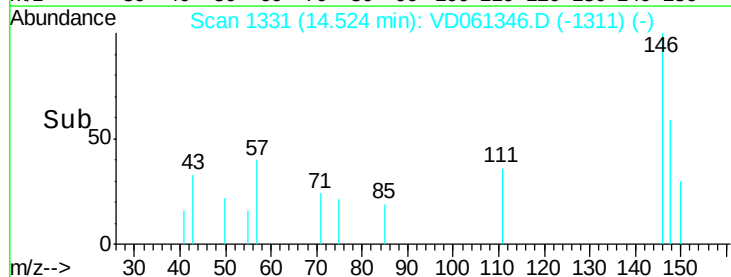
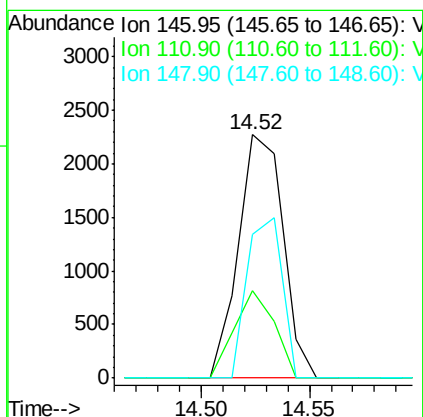
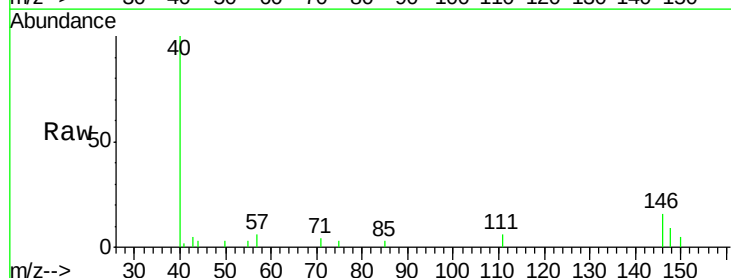
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 BFB

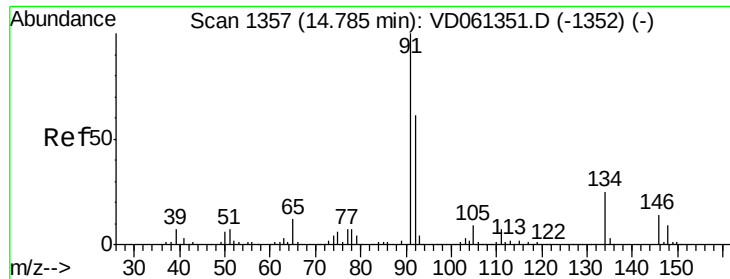
Tot Ion:146 Resp: 2298  
 Ion Ratio Lower Upper  
 146 100  
 111 34.2 20.6 61.9  
 148 48.7 31.1 93.3



#88  
 1,4-Dichlorobenzene  
 Concen: 26.836 ug/l  
 RT: 14.52 min Scan# 1331  
 Delta R.T. -0.01 min  
 Lab File: VD061346.D  
 Acq: 27 Mar 2019 10:00

Tgt Ion:146 Resp: 3247  
 Ion Ratio Lower Upper  
 146 100  
 111 35.9 16.8 50.4  
 148 59.1 32.6 98.0

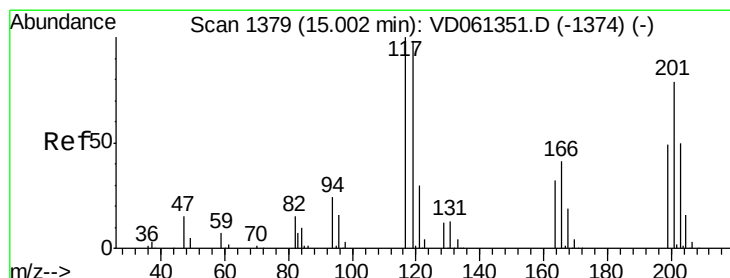
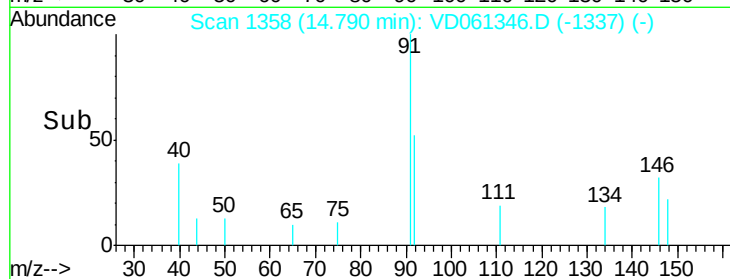
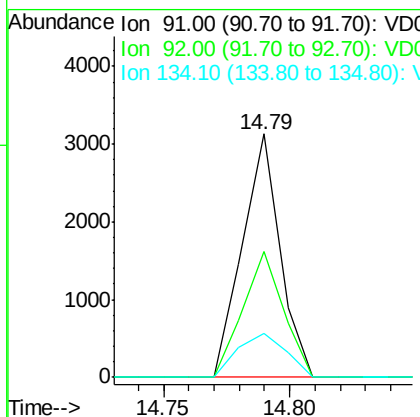
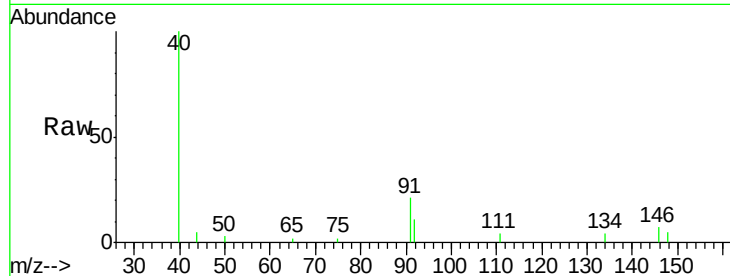




#89  
n-Butylbenzene  
Concen: 16.362 ug/l  
RT: 14.79 min Scan# 1358  
Delta R.T. 0.00 min  
Lab File: VD061346.D  
Acq: 27 Mar 2019 10:00

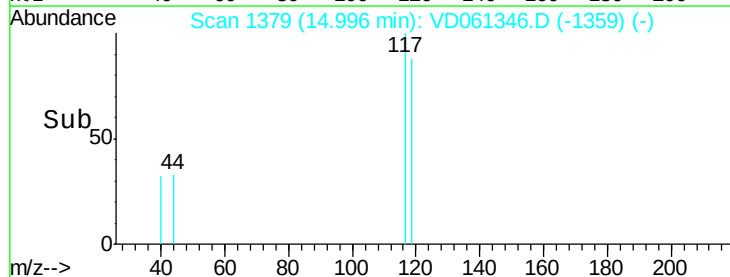
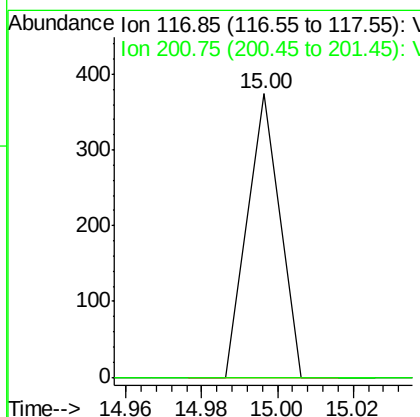
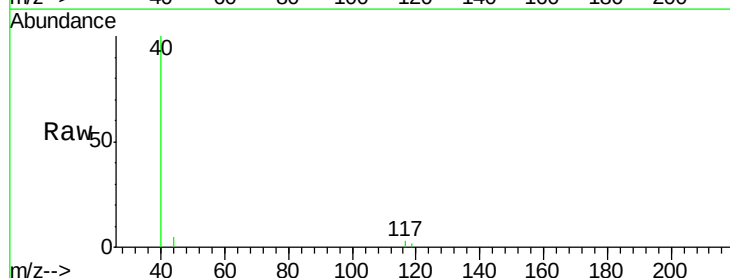
Instrument :  
MSVOA\_D  
ClientSampleId :  
BFB

Tot Ion: 91 Resp: 3233  
Ion Ratio Lower Upper  
91 100  
92 51.6 30.3 91.0  
134 18.0 12.4 37.0

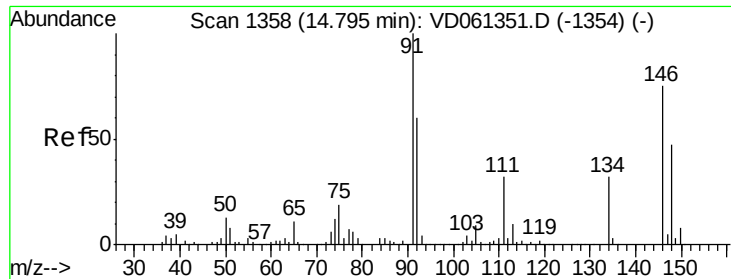


#90  
Hexachloroethane  
Concen: 3.634 ug/l  
RT: 15.00 min Scan# 1379  
Delta R.T. -0.01 min  
Lab File: VD061346.D  
Acq: 27 Mar 2019 10:00

Tgt Ion: 117 Resp: 221  
Ion Ratio Lower Upper  
117 100  
201 0.0 39.6 119.0#



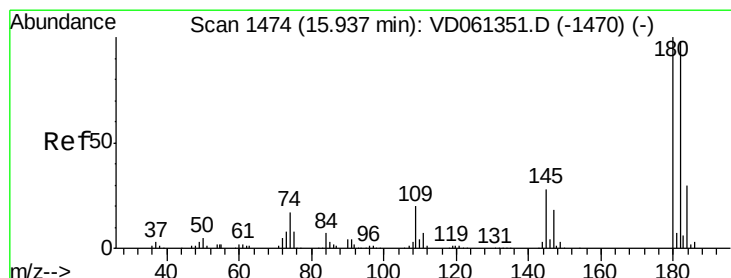
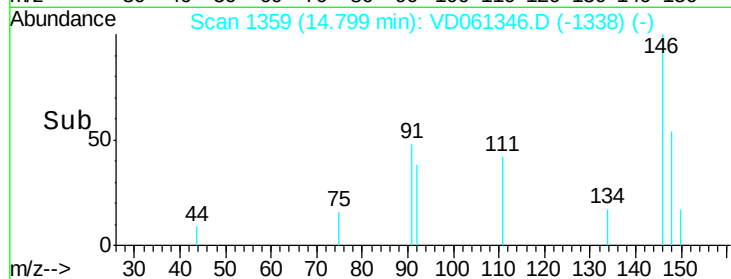
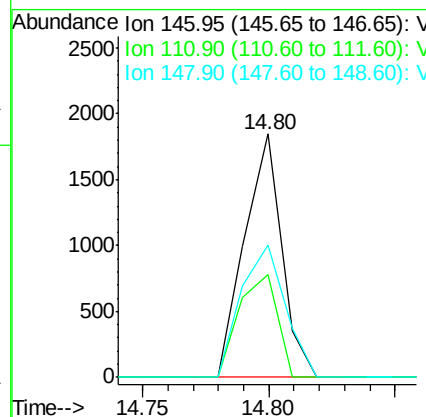
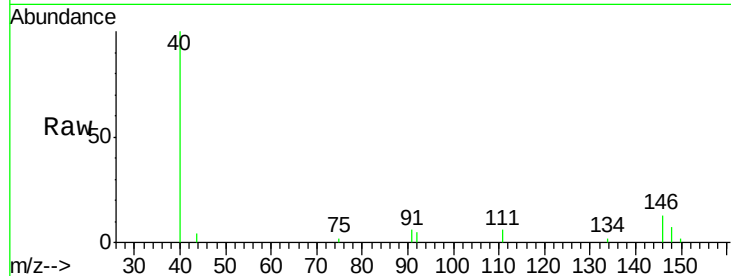




#91  
 1,2-Dichlorobenzene  
 Concen: 18.571 ug/l  
 RT: 14.80 min Scan# 1359  
 Delta R.T. 0.00 min  
 Lab File: VD061346.D  
 Acq: 27 Mar 2019 10:00

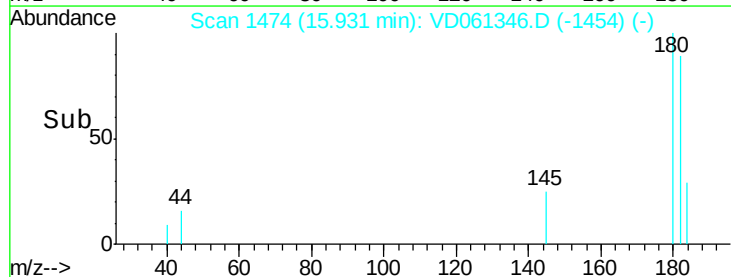
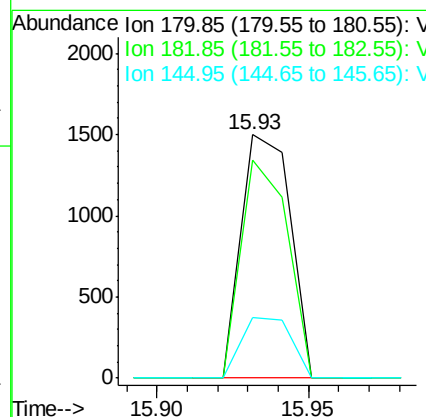
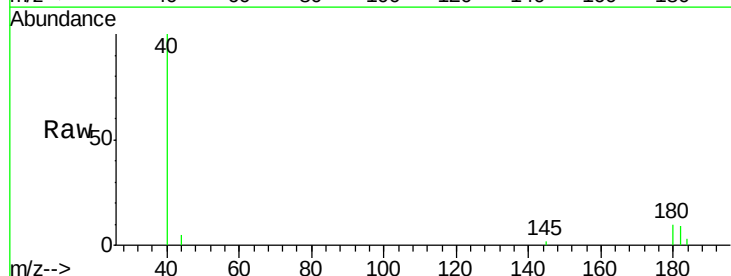
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 BFB

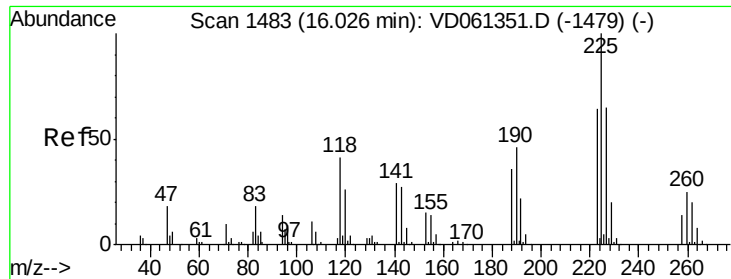
Tot Ion:146 Resp: 1890  
 Ion Ratio Lower Upper  
 146 100  
 111 42.2 21.2 63.6  
 148 54.4 31.6 95.0



#93  
 1,2,4-Trichlorobenzene  
 Concen: 36.864 ug/l  
 RT: 15.93 min Scan# 1474  
 Delta R.T. -0.01 min  
 Lab File: VD061346.D  
 Acq: 27 Mar 2019 10:00

Tgt Ion:180 Resp: 1709  
 Ion Ratio Lower Upper  
 180 100  
 182 89.5 48.9 146.8  
 145 24.7 14.1 42.3





#94

Hexachlorobutadiene

Concen: 18.577 ug/l

RT: 16.03 min Scan# 1484

Delta R.T. 0.00 min

Lab File: VD061346.D

Acq: 27 Mar 2019 10:00

Instrument :

MSVOA\_D

ClientSampleId :

BFB

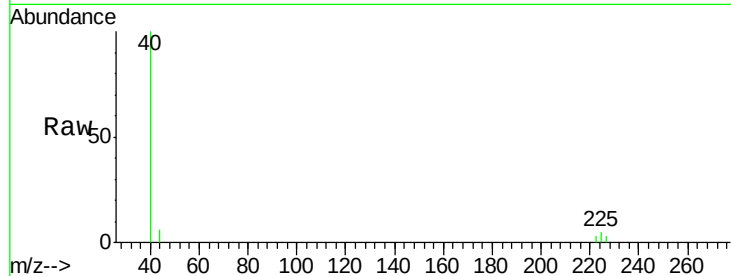
Tot Ion:225 Resp: 673

Ion Ratio Lower Upper

225 100

223 56.6 32.0 96.0

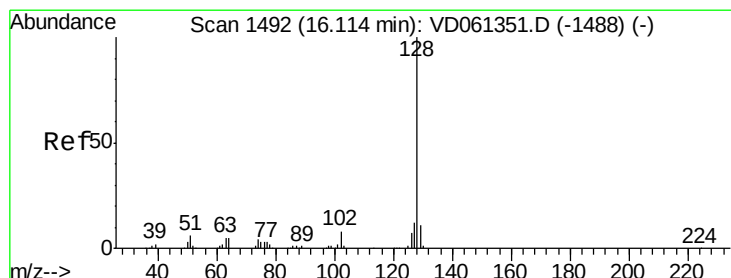
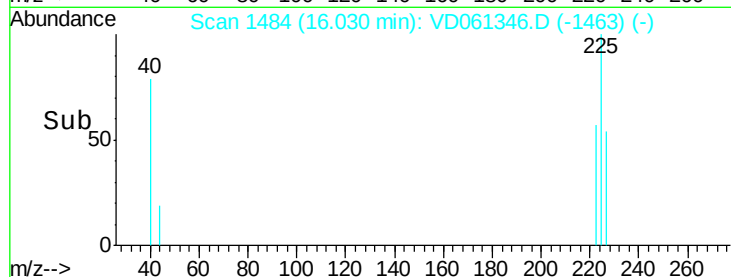
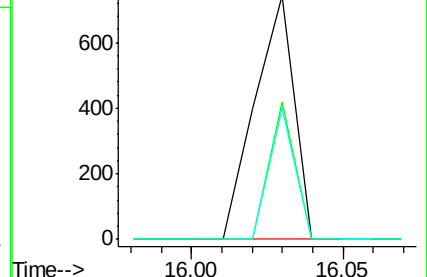
227 53.9 32.4 97.2



Abundance Ion 224.75 (224.45 to 225.45): V

Ion 222.75 (222.45 to 223.45): V

Ion 226.75 (226.45 to 227.45): V



#95

Naphthalene

Concen: 63.568 ug/l

RT: 16.12 min Scan# 1493

Delta R.T. 0.00 min

Lab File: VD061346.D

Acq: 27 Mar 2019 10:00

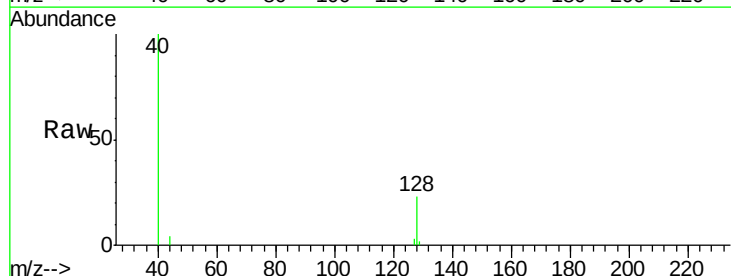
Tgt Ion:128 Resp: 4492

Ion Ratio Lower Upper

128 100

127 12.8 9.9 14.9

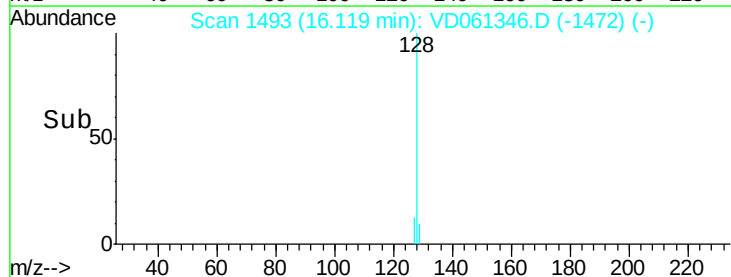
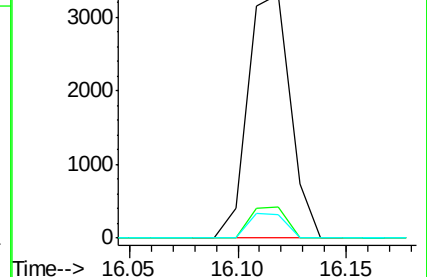
129 9.7 8.9 13.3

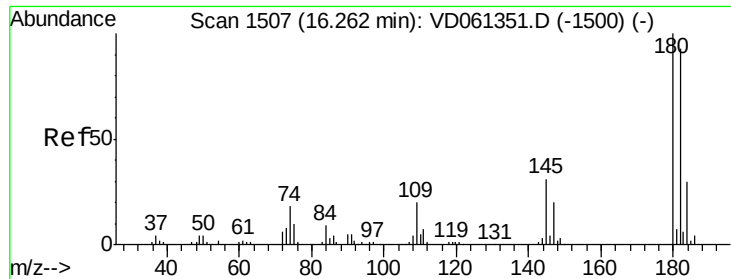


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

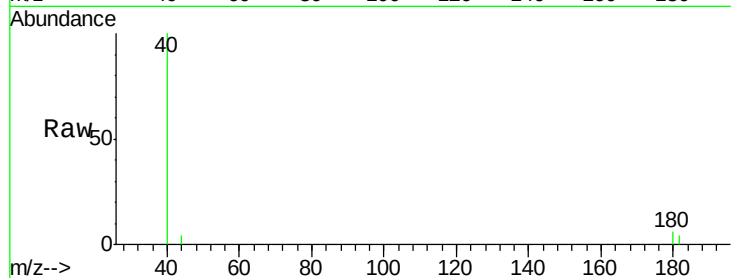




#96  
 1,2,3-Trichlorobenzene  
 Concen: 42.303 ug/l  
 RT: 16.26 min Scan# 1507  
 Delta R.T. -0.01 min  
 Lab File: VD061346.D  
 Acq: 27 Mar 2019 10:00

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 BFB

Tot Ion:180 Resp: 863  
 Ion Ratio Lower Upper  
 180 100  
 182 67.4 46.4 139.1  
 145 0.0 15.3 45.9#



Abundance Ion 179.85 (179.55 to 180.55): V  
 Ion 181.85 (181.55 to 182.55): V  
 Ion 144.95 (144.65 to 145.65): V

