

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD111418\  
 Data File : VD060387.D  
 Acq On : 14 Nov 2018 19:02  
 Operator : JC/SY  
 Sample : J5918-10  
 Misc : 5.01µl/5ml/MSVOA D/SOIL  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 FDSB-10(20-22)

Quant Time: Nov 15 05:43:43 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D110618S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 06 13:56:04 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 6.37  | 168  | 1629105  | 50.00 | ug/l  | -0.05    |
| 34) 1,4-Difluorobenzene    | 7.41  | 114  | 2215753  | 50.00 | ug/l  | -0.05    |
| 63) Chlorobenzene-d5       | 11.26 | 117  | 1797778  | 50.00 | ug/l  | -0.04    |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 942635   | 50.00 | ug/l  | -0.03    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.75  | 65   | 500692   | 42.92 | ug/l   | -0.05    |
| Spiked Amount               |       |      | Recovery | =     | 85.84% |          |
| 35) Dibromofluoromethane    | 6.29  | 113  | 674969   | 40.85 | ug/l   | -0.05    |
| Spiked Amount               |       |      | Recovery | =     | 81.70% |          |
| 50) Toluene-d8              | 9.43  | 98   | 1866191  | 38.59 | ug/l   | -0.04    |
| Spiked Amount               |       |      | Recovery | =     | 77.18% |          |
| 62) 4-Bromofluorobenzene    | 12.41 | 95   | 712162   | 40.64 | ug/l   | -0.03    |
| Spiked Amount               |       |      | Recovery | =     | 81.28% |          |

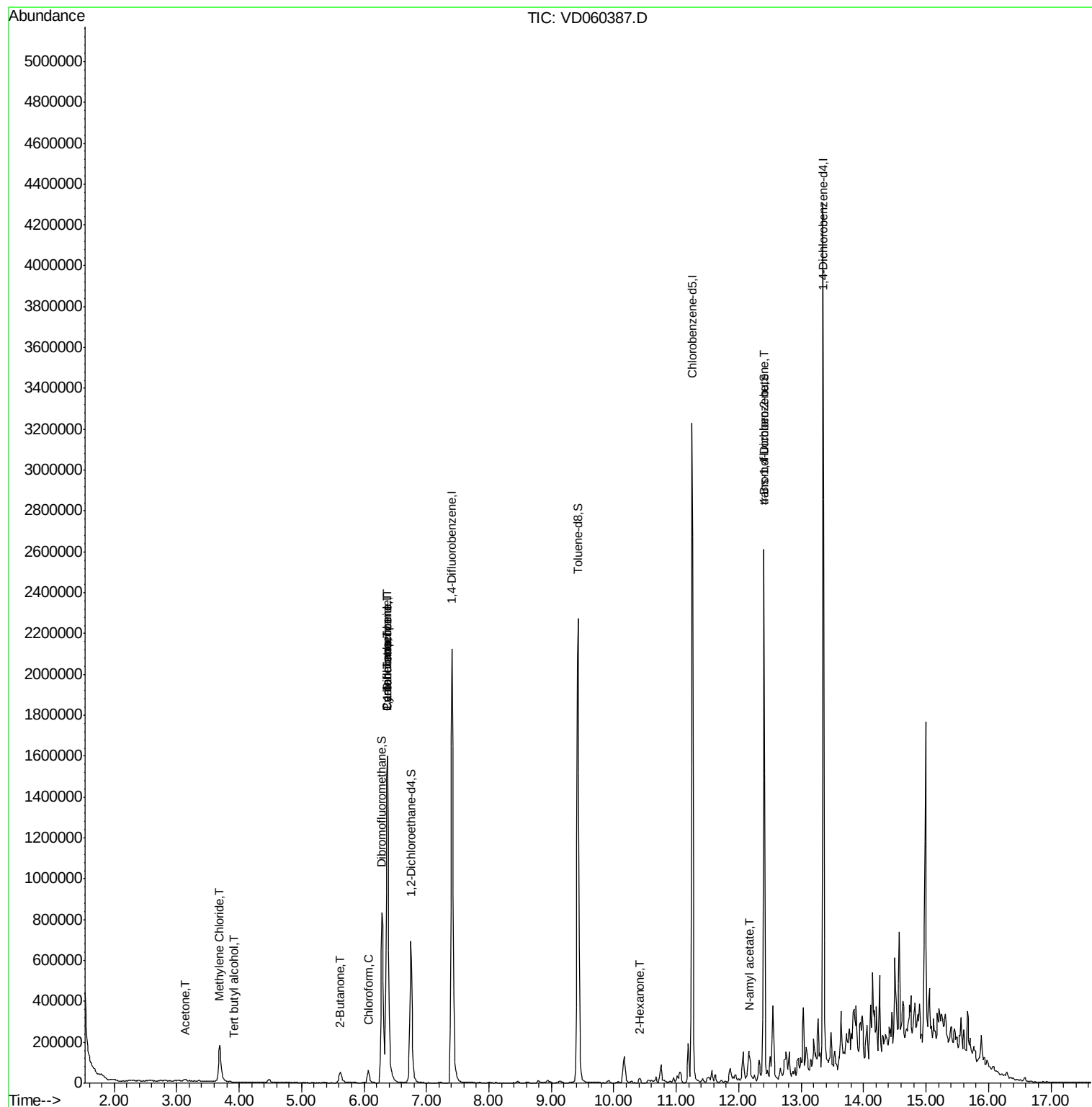
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.57  | 85   | 2596     | Below Cal | #      | 41     |
| 11) Tert butyl alcohol         | 3.93  | 59   | 1513     | 3.159     | ug/l # | 70     |
| 16) Acetone                    | 3.14  | 43   | 20269    | 10.018    | ug/l # | 90     |
| 20) Methylene Chloride         | 3.69  | 84   | 118831   | 6.621     | ug/l   | 96     |
| 25) 2-Butanone                 | 5.63  | 43   | 7096     | 1.687     | ug/l # | 60     |
| 30) Chloroform                 | 6.07  | 83   | 61558    | 2.113     | ug/l   | 99     |
| 31) Cyclohexane                | 6.37  | 56   | 29819    | 1.071     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 6.37  | 75   | 108234   | 4.944     | ug/l # | 46     |
| 38) Carbon Tetrachloride       | 6.37  | 117  | 125232   | 6.167     | ug/l # | 16     |
| 59) 2-Hexanone                 | 10.42 | 43   | 12557    | 2.139     | ug/l # | 31     |
| 74) N-amyl acetate             | 12.18 | 43   | 39752    | 2.258     | ug/l # | 48     |
| 81) trans-1,4-Dichloro-2-buten | 12.41 | 75   | 281417   | 87.661    | ug/l # | 15     |
| 89) n-Butylbenzene             | 13.63 | 91   | 28175    | Below Cal |        | 97     |

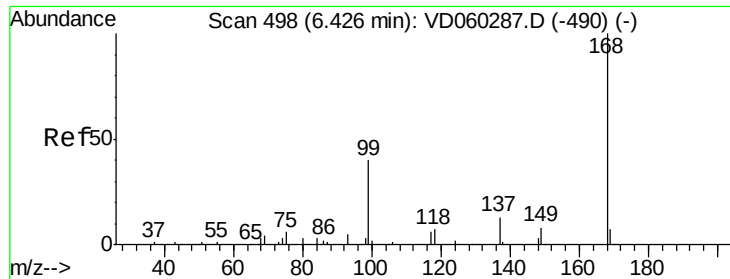
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD111418\  
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Sample : J5918-10  
Misc : 5.01µl/5ml/MSVOA D/SOIL  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
FDSB-10(20-22)

Quant Time: Nov 15 05:43:43 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D110618S.M  
Quant Title : SW846 8260  
QLast Update : Tue Nov 06 13:56:04 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.37 min Scan# 493

Delta R.T. -0.05 min

Lab File: VD060387.D

Acq: 14 Nov 2018 19:02

Instrument :

MSVOA\_D

ClientSampleId :

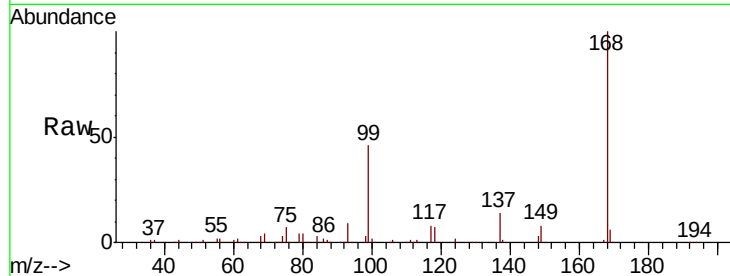
FDSB-10(20-22)

Tot Ion:168 Resp: 1629105

Ion Ratio Lower Upper

168 100

99 46.4 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.37

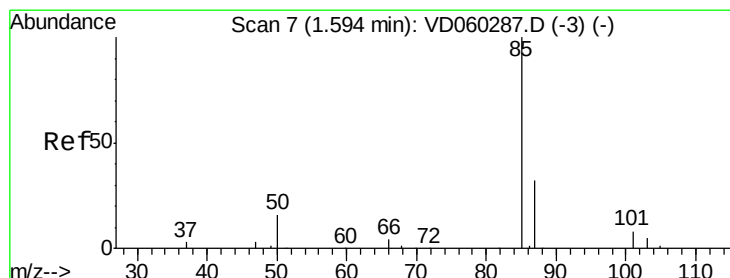
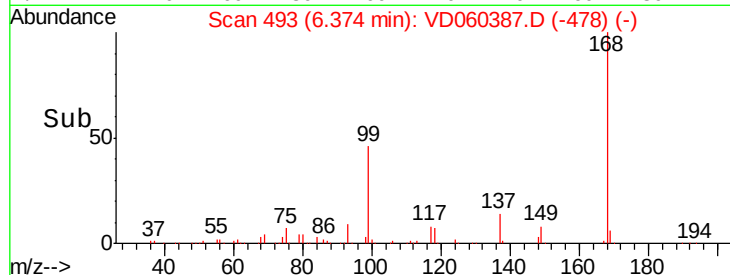
600000

400000

200000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.57 min Scan# 5

Delta R.T. -0.02 min

Lab File: VD060387.D

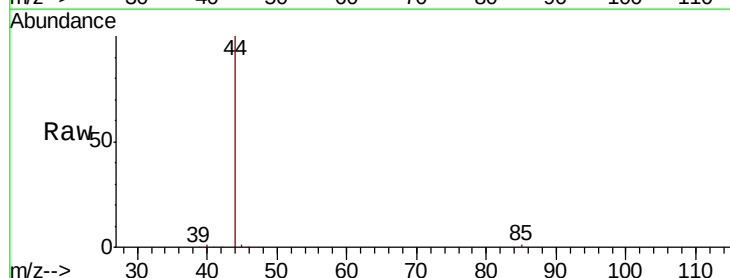
Acq: 14 Nov 2018 19:02

Tgt Ion: 85 Resp: 2596

Ion Ratio Lower Upper

85 100

87 0.0 16.8 50.4#



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

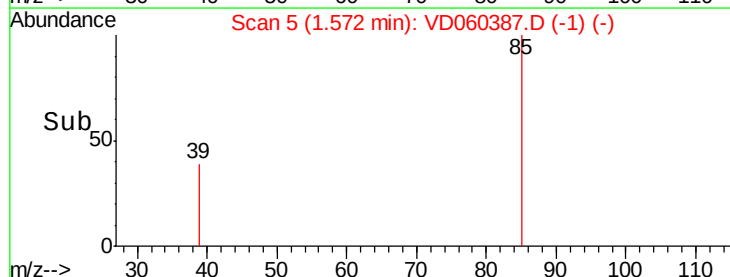
1.57

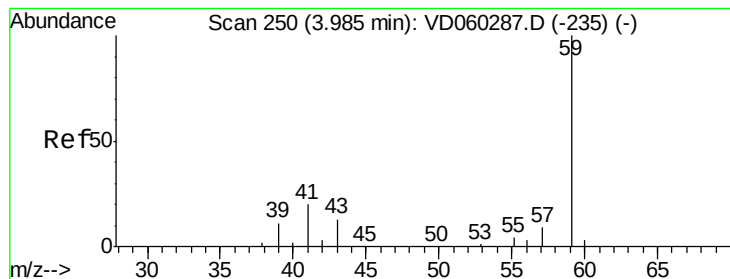
1000

500

0

Time-->





#11

Tert butyl alcohol

Concen: 3.159 ug/l

RT: 3.93 min Scan# 245

Delta R.T. -0.05 min

Lab File: VD060387.D

Acq: 14 Nov 2018 19:02

Instrument :

MSVOA\_D

ClientSampleId :

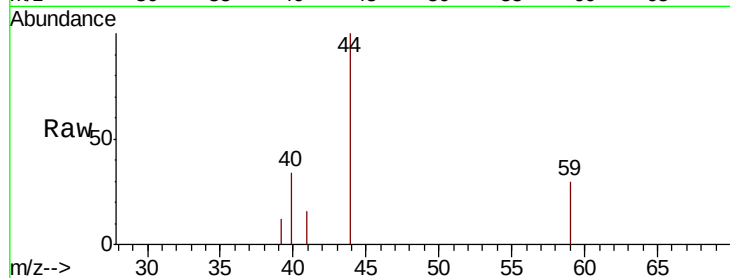
FDSB-10(20-22)

Tot Ion: 59 Resp: 1513

Ion Ratio Lower Upper

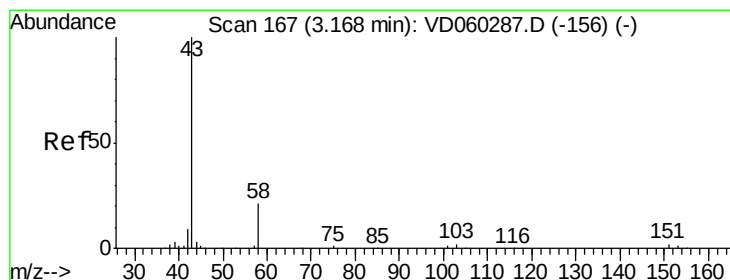
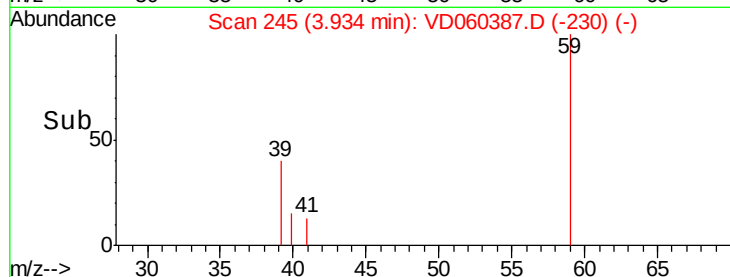
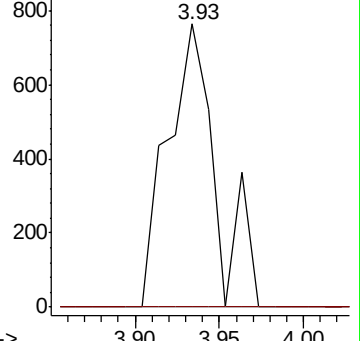
59 100

57 0.0 9.3 13.9#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC



#16

Acetone

Concen: 10.018 ug/l

RT: 3.14 min Scan# 164

Delta R.T. -0.03 min

Lab File: VD060387.D

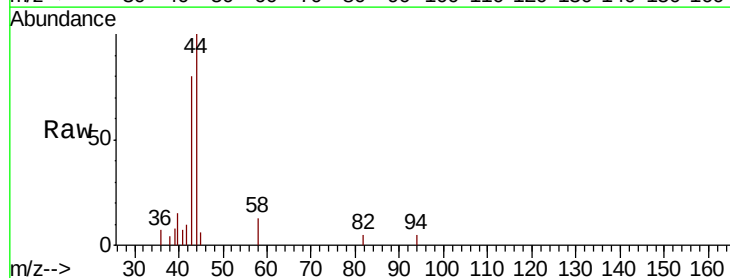
Acq: 14 Nov 2018 19:02

Tgt Ion: 43 Resp: 20269

Ion Ratio Lower Upper

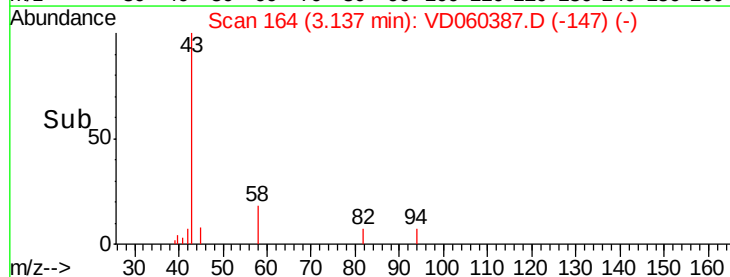
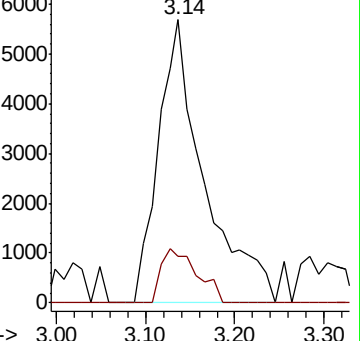
43 100

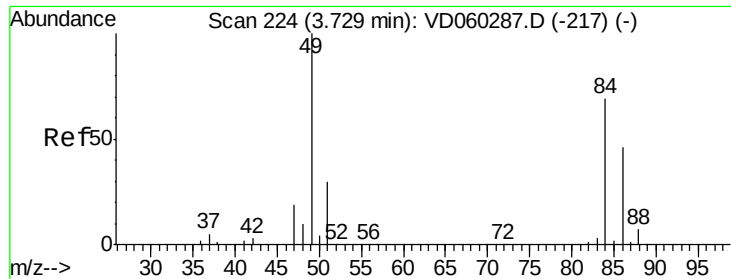
58 16.3 16.9 25.3#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

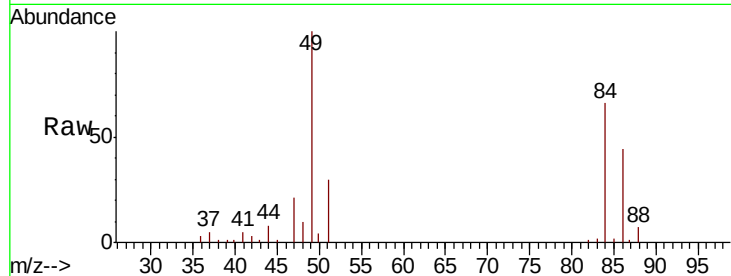




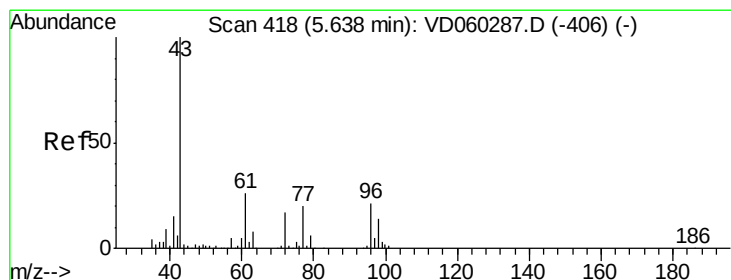
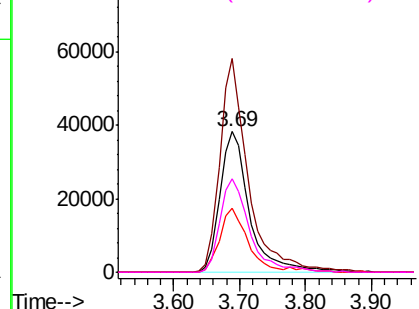
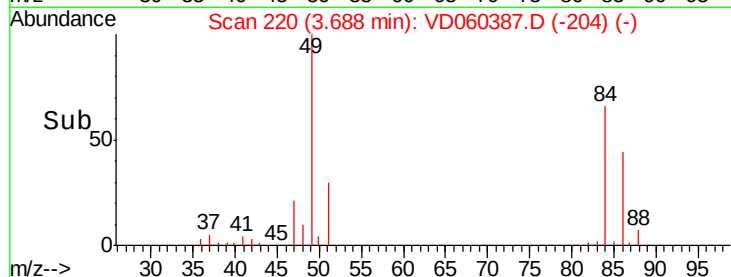
#20  
Methylene Chloride  
Concen: 6.621 ug/l  
RT: 3.69 min Scan# 220  
Delta R.T. -0.04 min  
Lab File: VD060387.D  
Acq: 14 Nov 2018 19:02

Instrument :  
MSVOA\_D  
ClientSampleId :  
FDSB-10(20-22)

Tot Ion: 84 Resp: 118831  
Ion Ratio Lower Upper  
84 100  
49 151.8 115.6 173.4  
51 45.8 35.6 53.4  
86 66.1 52.3 78.5

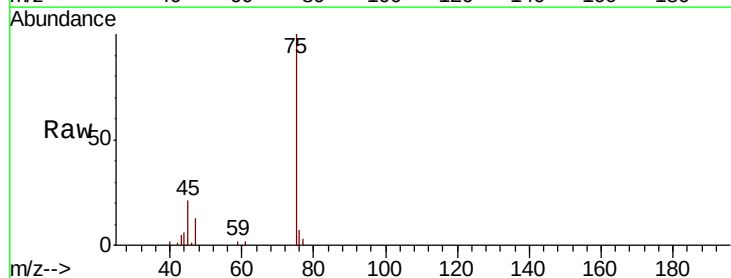


Abundance Ion 83.95 (83.65 to 84.65): VDC  
Ion 48.90 (48.60 to 49.60): VDC  
Ion 50.90 (50.60 to 51.60): VDC  
Ion 85.90 (85.60 to 86.60): VDC

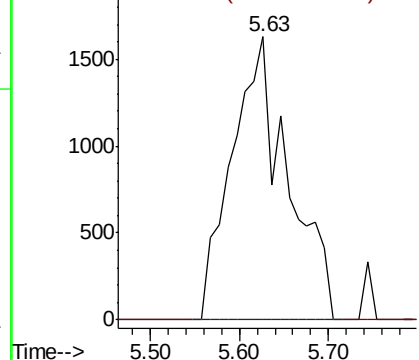
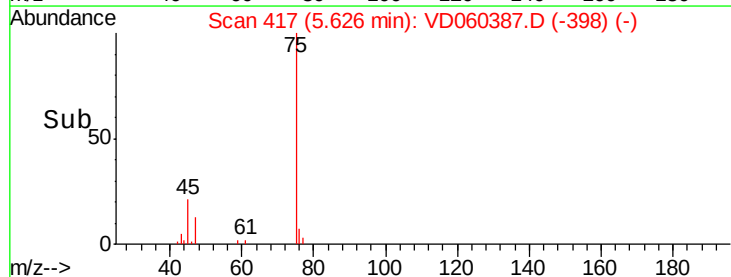


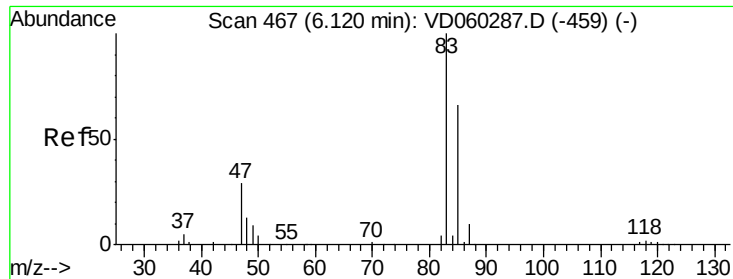
#25  
2-Butanone  
Concen: 1.687 ug/l  
RT: 5.63 min Scan# 417  
Delta R.T. -0.01 min  
Lab File: VD060387.D  
Acq: 14 Nov 2018 19:02

Tgt Ion: 43 Resp: 7096  
Ion Ratio Lower Upper  
43 100  
72 0.0 13.8 20.8#



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

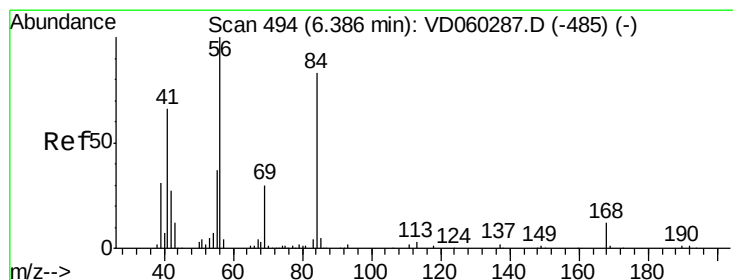
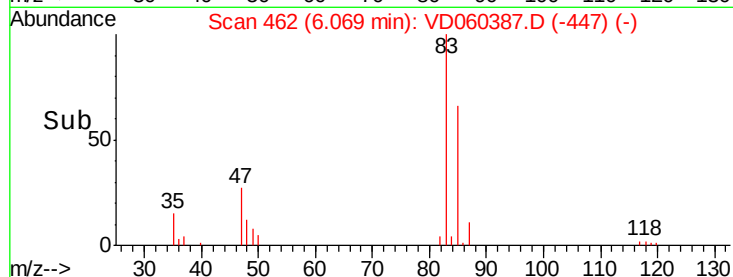
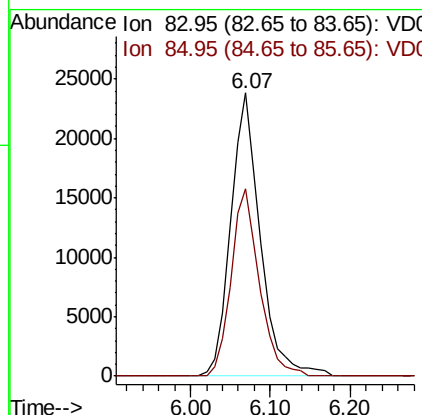
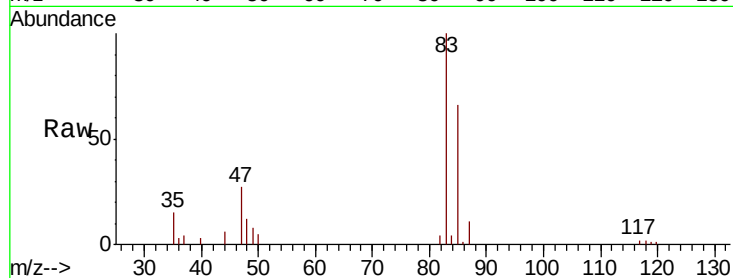




#30  
Chloroform  
Concen: 2.113 ug/l  
RT: 6.07 min Scan# 462  
Delta R.T. -0.05 min  
Lab File: VD060387.D  
Acq: 14 Nov 2018 19:02

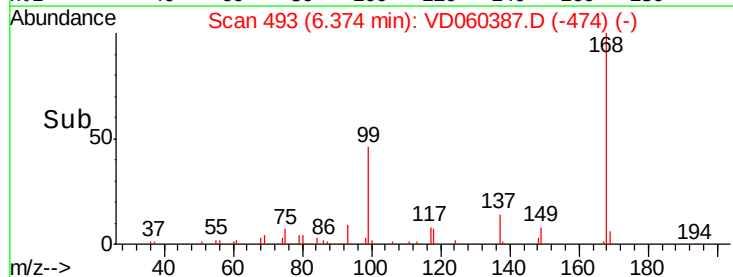
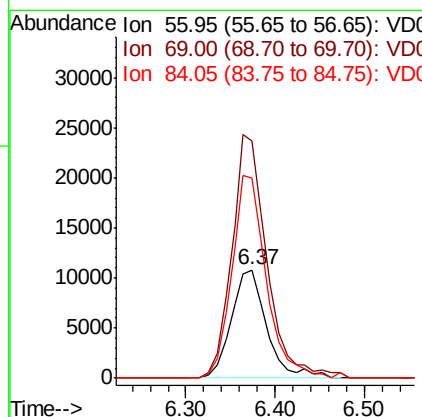
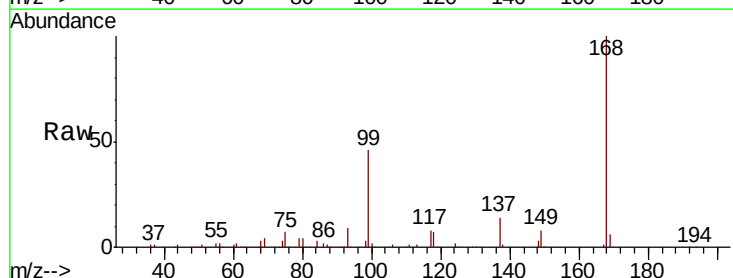
Instrument :  
MSVOA\_D  
ClientSampleId :  
FDSB-10(20-22)

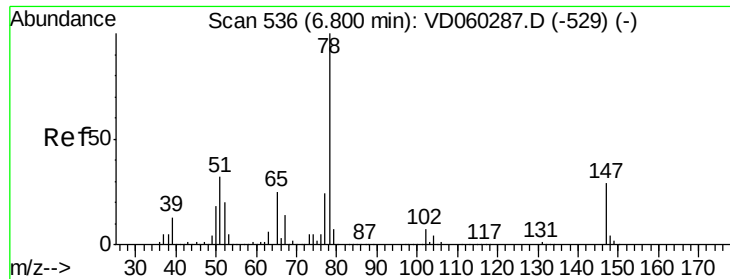
Tot Ion: 83 Resp: 61558  
Ion Ratio Lower Upper  
83 100  
85 66.1 52.5 78.7



#31  
Cyclohexane  
Concen: 1.071 ug/l  
RT: 6.37 min Scan# 493  
Delta R.T. -0.01 min  
Lab File: VD060387.D  
Acq: 14 Nov 2018 19:02

Tgt Ion: 56 Resp: 29819  
Ion Ratio Lower Upper  
56 100  
69 219.9 22.2 33.2#  
84 184.6 63.0 94.4#

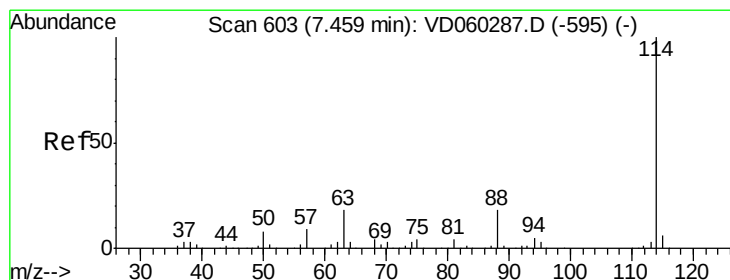
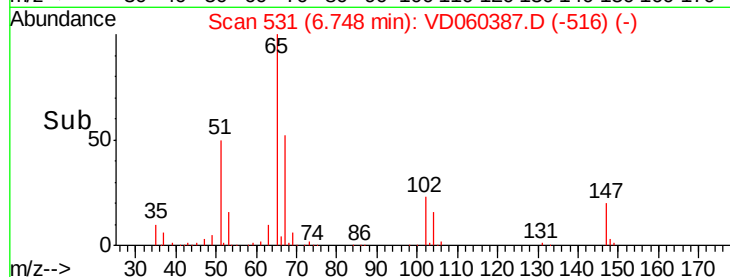
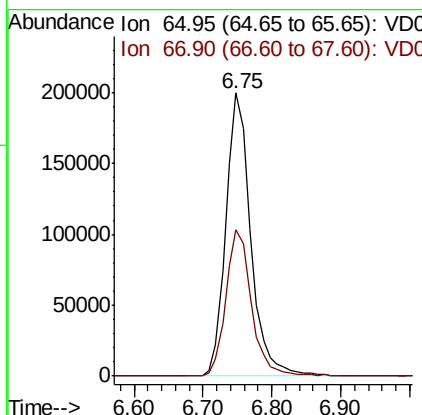
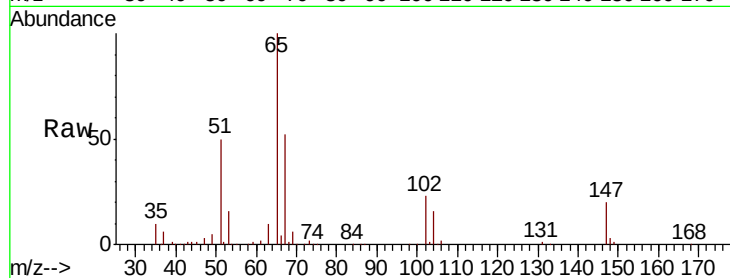




#33  
 1,2-Dichloroethane-d4  
 Concen: N.D. ug/l  
 RT: 6.75 min Scan# 531  
 Delta R.T. -0.05 min  
 Lab File: VD060387.D  
 Acq: 14 Nov 2018 19:02

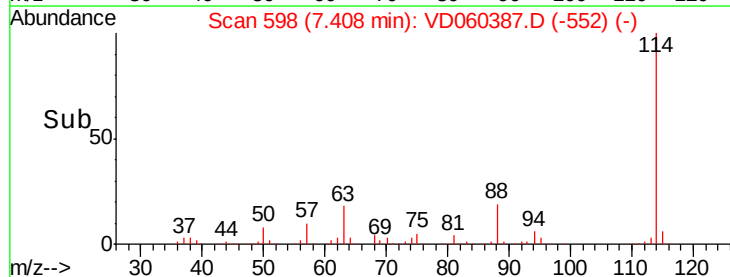
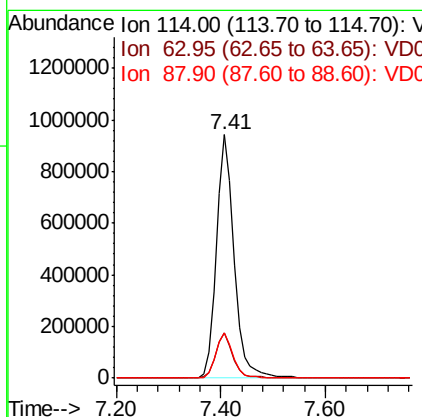
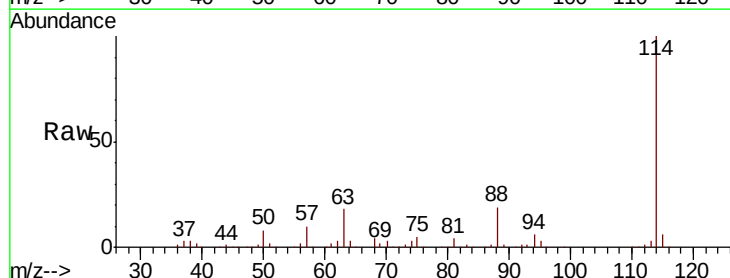
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 FDSB-10(20-22)

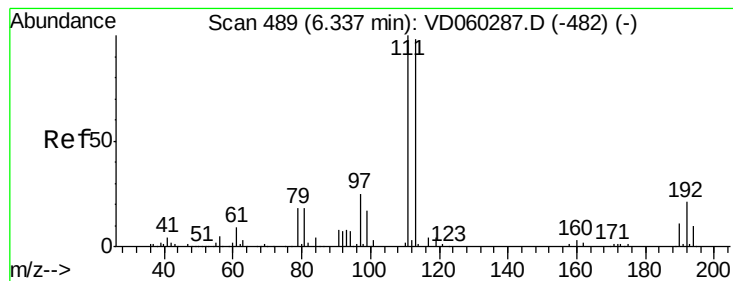
Tot Ion: 65 Resp: 500692  
 Ion Ratio Lower Upper  
 65 100  
 67 51.9 0.0 109.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 7.41 min Scan# 598  
 Delta R.T. -0.05 min  
 Lab File: VD060387.D  
 Acq: 14 Nov 2018 19:02

Tgt Ion: 114 Resp: 2215753  
 Ion Ratio Lower Upper  
 114 100  
 63 18.4 0.0 34.0  
 88 18.5 0.0 35.4





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.29 min Scan# 484

Delta R.T. -0.05 min

Lab File: VD060387.D

Acq: 14 Nov 2018 19:02

Instrument :

MSVOA\_D

ClientSampleId :

FDSB-10(20-22)

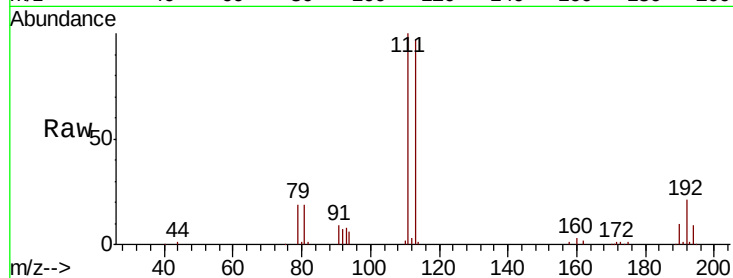
Tot Ion:113 Resp: 674969

Ion Ratio Lower Upper

113 100

111 103.5 81.6 122.4

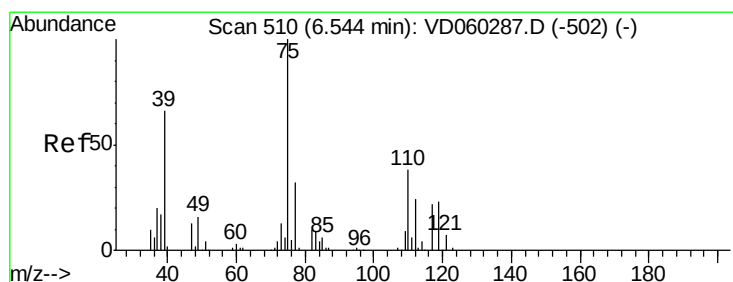
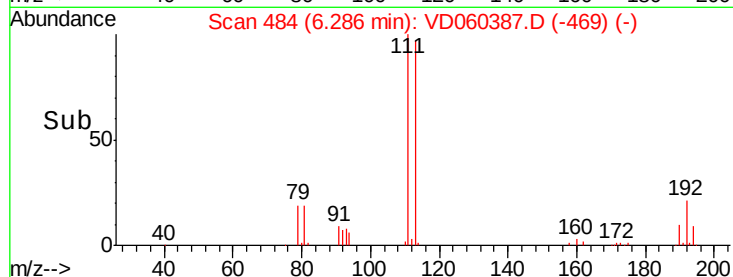
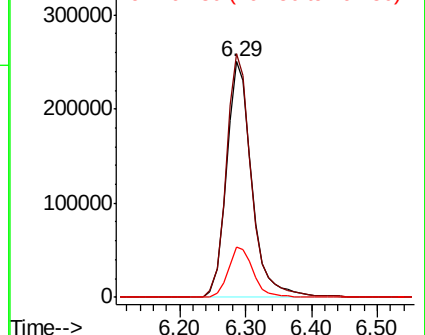
192 21.4 16.5 24.7



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: 4.944 ug/l

RT: 6.37 min Scan# 493

Delta R.T. -0.17 min

Lab File: VD060387.D

Acq: 14 Nov 2018 19:02

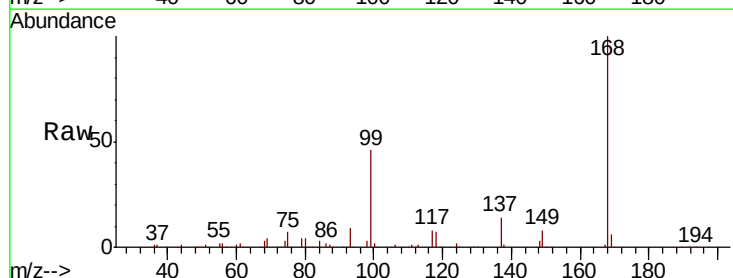
Tgt Ion: 75 Resp: 108234

Ion Ratio Lower Upper

75 100

110 5.6 18.0 54.0#

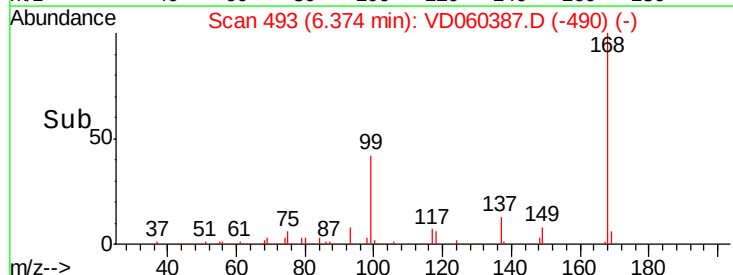
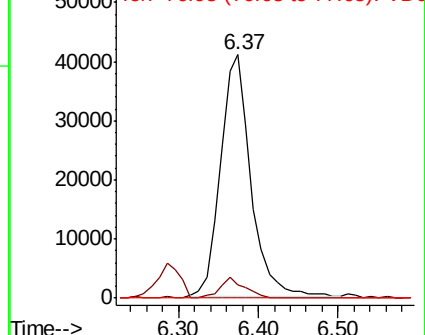
77 0.0 25.6 38.4#



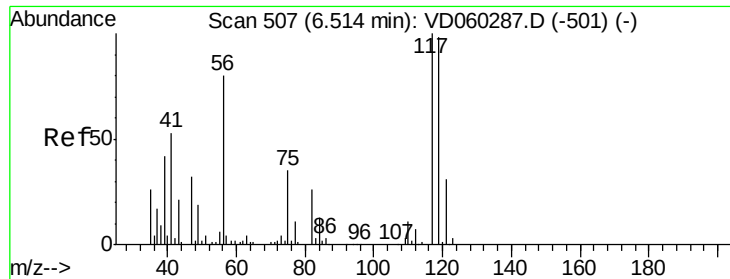
Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V







#38

Carbon Tetrachloride

Concen: 6.167 ug/l

RT: 6.37 min Scan# 493

Delta R.T. -0.14 min

Lab File: VD060387.D

Acq: 14 Nov 2018 19:02

Instrument :

MSVOA\_D

ClientSampleId :

FDSB-10(20-22)

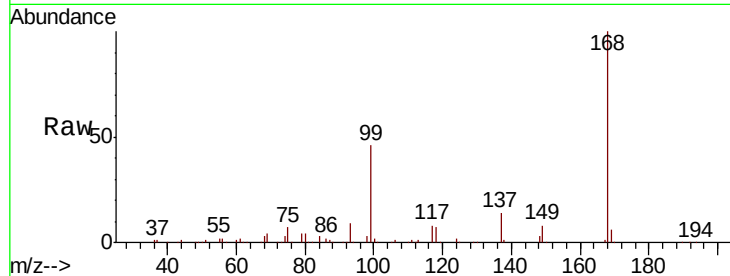
Tot Ion:117 Resp: 125232

Ion Ratio Lower Upper

117 100

119 5.1 76.6 115.0#

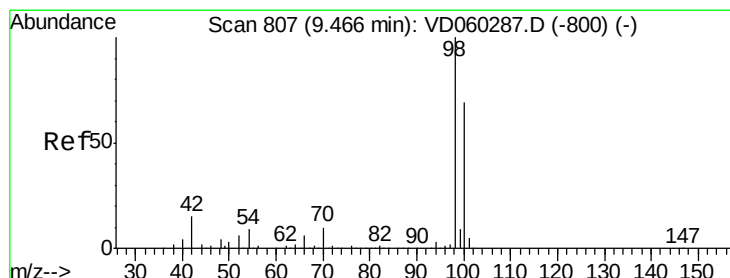
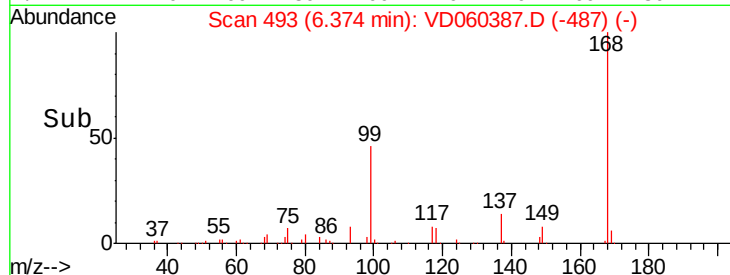
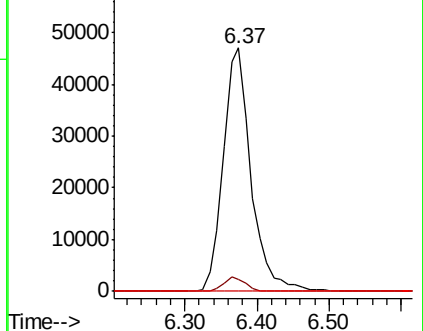
121 0.0 24.3 36.5#



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



#50

Toluene-d8

Concen: N.D. ug/l

RT: 9.43 min Scan# 803

Delta R.T. -0.04 min

Lab File: VD060387.D

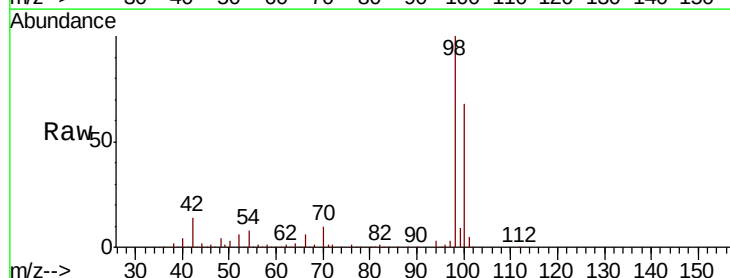
Acq: 14 Nov 2018 19:02

Tgt Ion: 98 Resp: 1866191

Ion Ratio Lower Upper

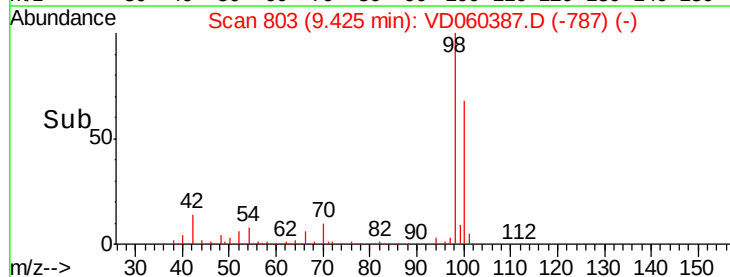
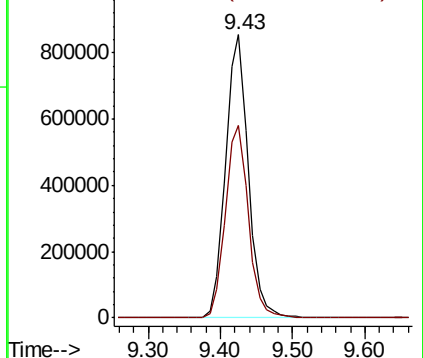
98 100

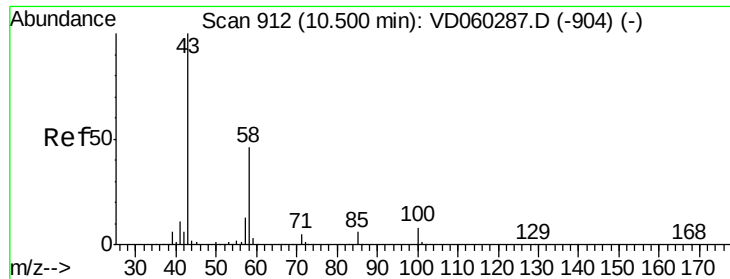
100 68.2 55.2 82.8



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V

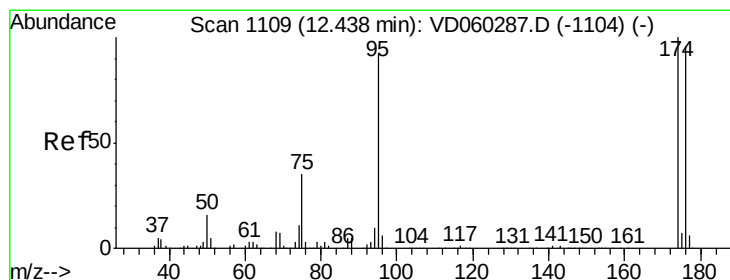
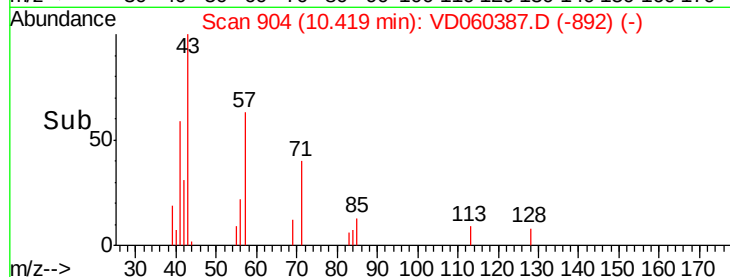
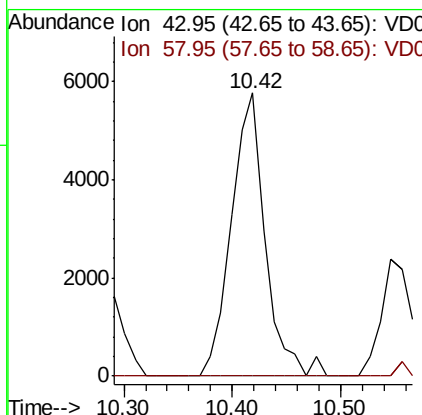
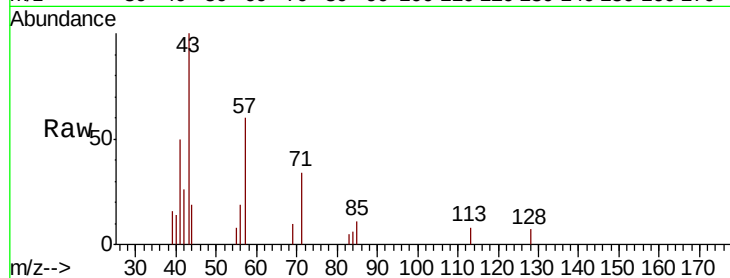




#59  
2-Hexanone  
Concen: 2.139 ug/l  
RT: 10.42 min Scan# 904  
Delta R.T. -0.08 min  
Lab File: VD060387.D  
Acq: 14 Nov 2018 19:02

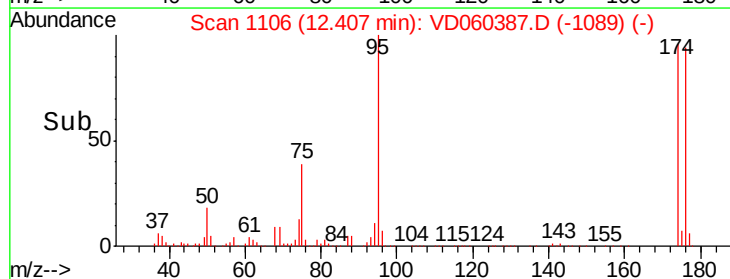
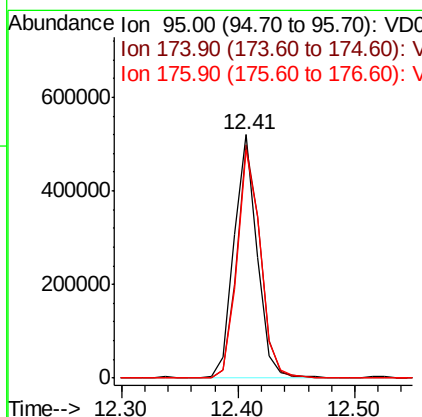
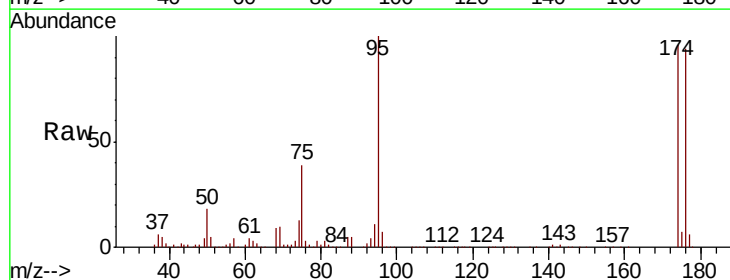
Instrument :  
MSVOA\_D  
ClientSampleId :  
FDSB-10(20-22)

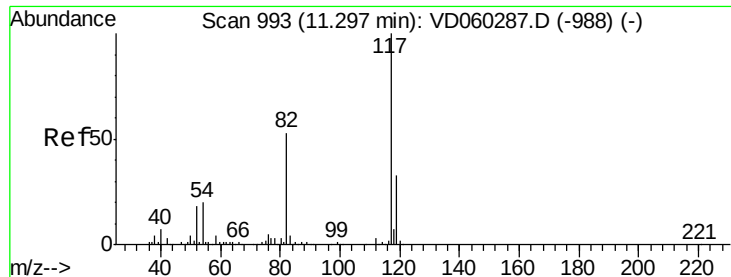
Tot Ion: 43 Resp: 12557  
Ion Ratio Lower Upper  
43 100  
58 0.0 22.9 68.5#



#62  
4-Bromofluorobenzene  
Concen: N.D. ug/l  
RT: 12.41 min Scan# 1106  
Delta R.T. -0.03 min  
Lab File: VD060387.D  
Acq: 14 Nov 2018 19:02

Tgt Ion: 95 Resp: 712162  
Ion Ratio Lower Upper  
95 100  
174 95.7 0.0 160.8  
176 93.8 0.0 154.6

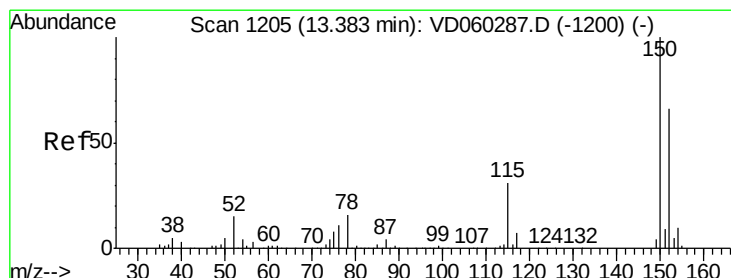
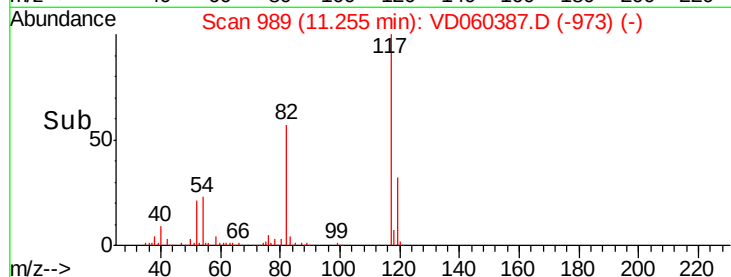
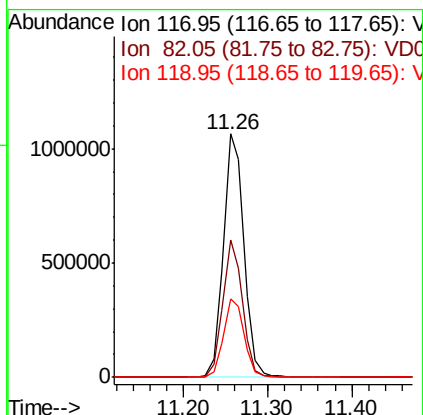
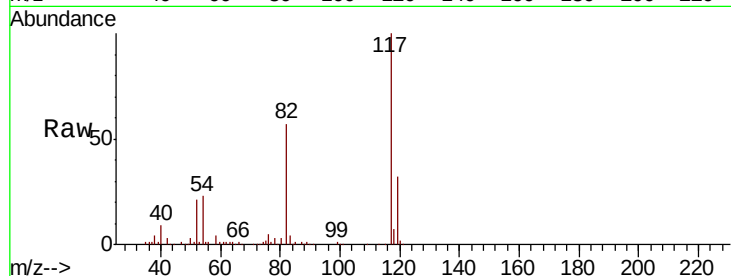




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.26 min Scan# 989  
Delta R.T. -0.04 min  
Lab File: VD060387.D  
Acq: 14 Nov 2018 19:02

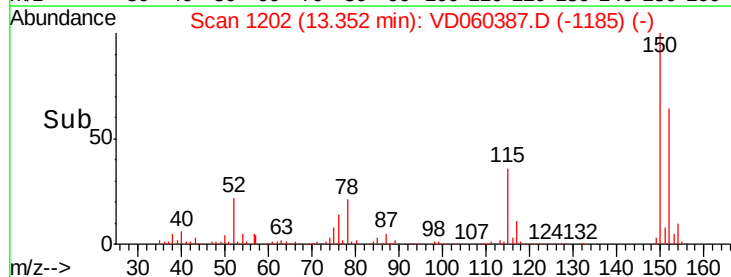
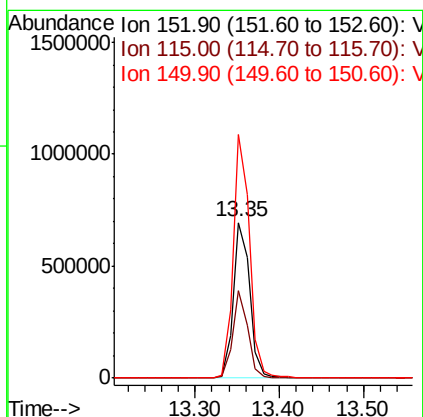
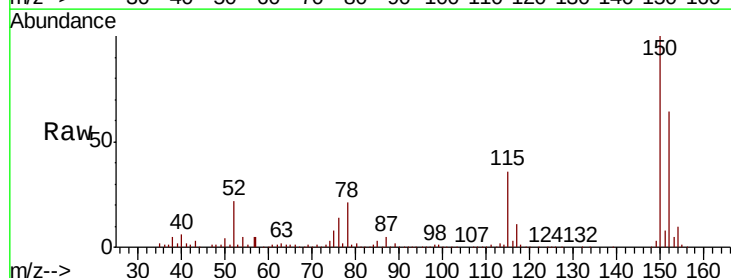
Instrument :  
MSVOA\_D  
ClientSampleId :  
FDSB-10(20-22)

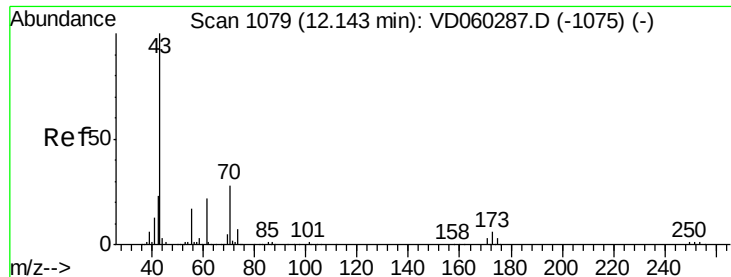
Tot Ion:117 Resp: 1797778  
Ion Ratio Lower Upper  
117 100  
82 56.6 43.7 65.5  
119 32.3 26.1 39.1



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.35 min Scan# 1202  
Delta R.T. -0.03 min  
Lab File: VD060387.D  
Acq: 14 Nov 2018 19:02

Tgt Ion:152 Resp: 942635  
Ion Ratio Lower Upper  
152 100  
115 55.9 24.1 72.3  
150 156.7 0.0 310.6





#74

N-amvl acetate

Concen: 2.258 ug/l

RT: 12.18 min Scan# 1083

Delta R.T. 0.04 min

Lab File: VD060387.D

Acq: 14 Nov 2018 19:02

Instrument :

MSVOA\_D

ClientSampleId :

FDSB-10(20-22)

Tot Ion: 43 Resp: 39752

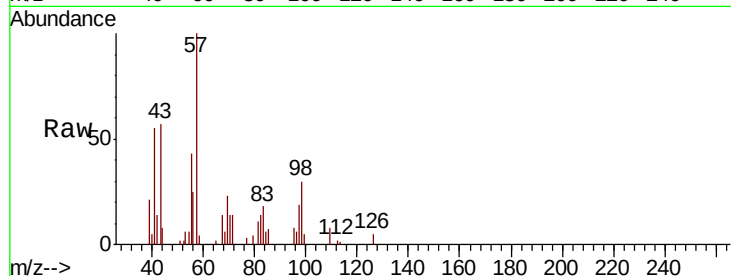
Ion Ratio Lower Upper

43 100

70 25.3 23.0 34.4

55 76.2 14.2 21.4#

61 0.0 17.8 26.8#

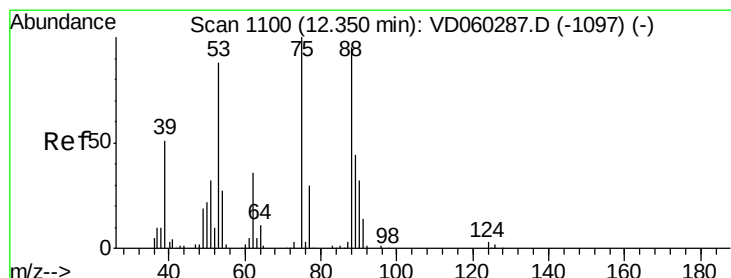
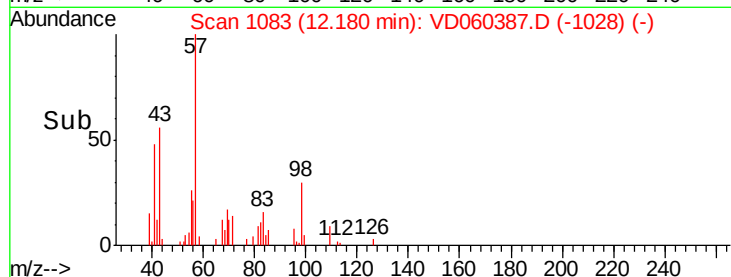
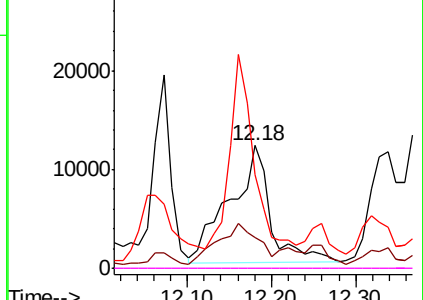


Abundance Ion 42.95 (42.65 to 43.65): VDC

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



#81

trans-1,4-Dichloro-2-butene

Concen: 87.661 ug/l

RT: 12.41 min Scan# 1106

Delta R.T. 0.06 min

Lab File: VD060387.D

Acq: 14 Nov 2018 19:02

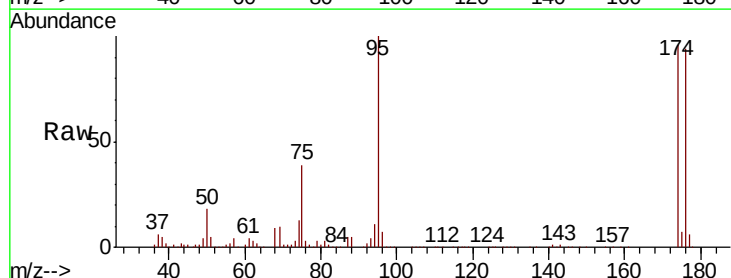
Tgt Ion: 75 Resp: 281417

Ion Ratio Lower Upper

75 100

53 0.2 68.6 103.0#

89 0.0 34.1 51.1#



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

