

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_D\DATA\VD112618\  
 Data File : VD060452.D  
 Acq On : 26 Nov 2018 13:32  
 Operator : VA/AP  
 Sample : J5918-02  
 Misc : 5.00g/5ml/MSVOA\_D/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 FDSB-05(25-27)

Quant Time: Nov 26 14:09:53 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D110618S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Nov 19 16:31:59 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 6.44  | 168  | 1769193  | 50.00 | ug/l  | 0.02     |
| 34) 1,4-Difluorobenzene    | 7.48  | 114  | 2339402  | 50.00 | ug/l  | 0.02     |
| 63) Chlorobenzene-d5       | 11.30 | 117  | 1846444  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.39 | 152  | 898365   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| System Monitoring Compounds |        |     |          |       |        |      |
| 33) 1,2-Dichloroethane-d4   | 6.82   | 65  | 553295   | 43.68 | ug/l   | 0.02 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 87.36% |      |
| 35) Dibromofluoromethane    | 6.35   | 113 | 801939   | 45.97 | ug/l   | 0.02 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 91.94% |      |
| 50) Toluene-d8              | 9.48   | 98  | 2360466  | 46.23 | ug/l   | 0.02 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 92.46% |      |
| 62) 4-Bromofluorobenzene    | 12.45  | 95  | 803901   | 43.45 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 86.90% |      |

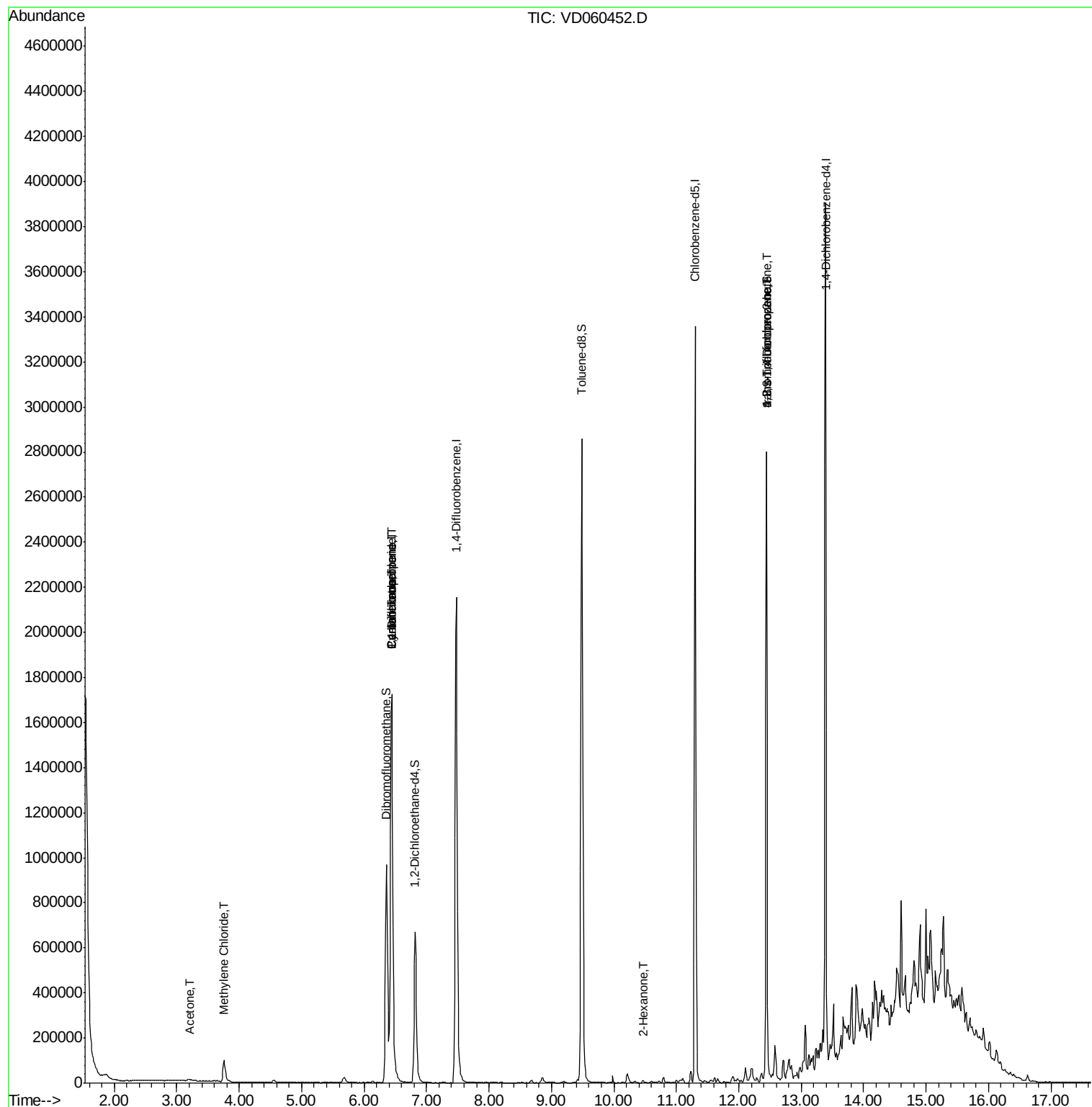
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 2) Dichlorodifluoromethane     | 1.61  | 85   | 223      | Below Cal | #     | 41     |
| 16) Acetone                    | 3.19  | 43   | 21631    | 9.84      | ug/l  | 96     |
| 20) Methylene Chloride         | 3.76  | 84   | 62121    | 3.19      | ug/l  | 98     |
| 31) Cyclohexane                | 6.43  | 56   | 33270    | 1.10      | ug/l  | # 1    |
| 36) 1,1-Dichloropropene        | 6.43  | 75   | 122234   | 5.29      | ug/l  | # 46   |
| 38) Carbon Tetrachloride       | 6.44  | 117  | 137537   | 6.42      | ug/l  | # 16   |
| 59) 2-Hexanone                 | 10.47 | 43   | 6725     | 1.09      | ug/l  | # 31   |
| 76) 1,2,3-Trichloropropane     | 12.45 | 75   | 299490   | 27.87     | ug/l  | # 44   |
| 81) trans-1,4-Dichloro-2-buten | 12.45 | 75   | 317703   | 103.84    | ug/l  | # 15   |
| 89) n-Butylbenzene             | 13.67 | 91   | 13455    | Below Cal |       | 82     |

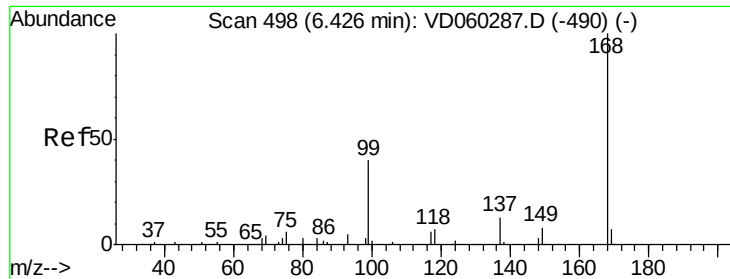
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D110618S.M  
Quant Title : SW846 8260  
QLast Update : Mon Nov 19 16:31:59 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 6.44 min Scan# 500

Delta R.T. 0.02 min

Lab File: VD060452.D

Acq: 26 Nov 2018 13:32

Instrument :

MSVOA\_D

ClientSampleId :

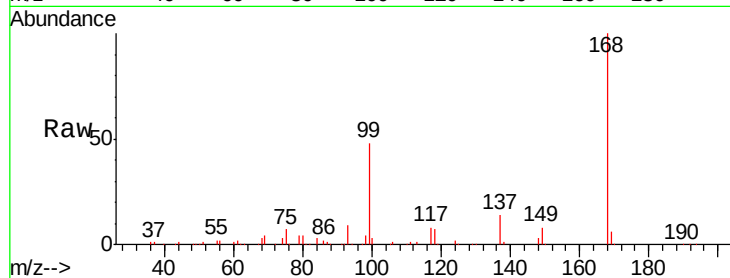
FDSB-05(25-27)

Tgt Ion:168 Resp: 1769193

Ion Ratio Lower Upper

168 100

99 47.7 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): V

6.44

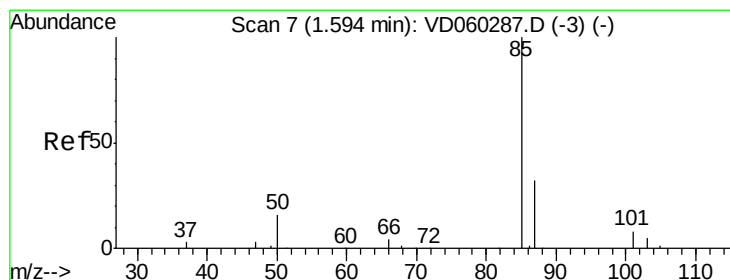
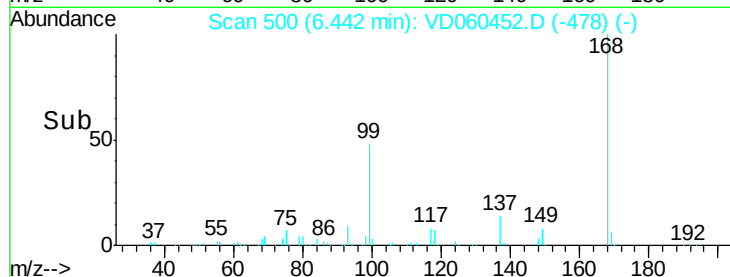
600000

400000

200000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.61 min Scan# 9

Delta R.T. 0.02 min

Lab File: VD060452.D

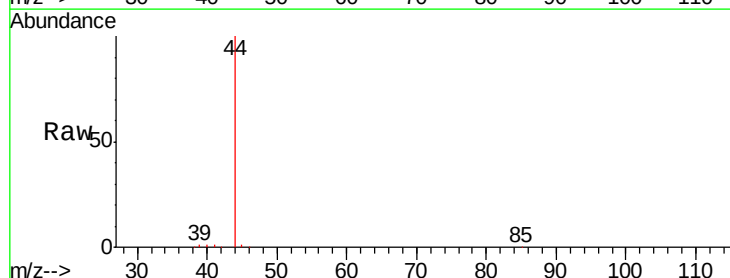
Acq: 26 Nov 2018 13:32

Tgt Ion: 85 Resp: 223

Ion Ratio Lower Upper

85 100

87 0.0 16.8 50.4#



Abundance Ion 84.95 (84.65 to 85.65): V

Ion 86.90 (86.60 to 87.60): V

1.61

400

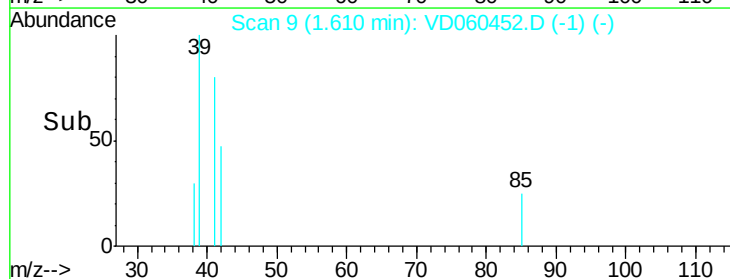
300

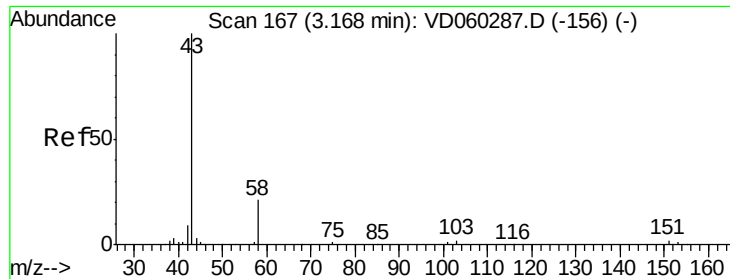
200

100

0

Time-->





#16

Acetone

Concen: 9.84 ug/l

RT: 3.19 min Scan# 170

Delta R.T. 0.03 min

Lab File: VD060452.D

Acq: 26 Nov 2018 13:32

Instrument :

MSVOA\_D

ClientSampleId :

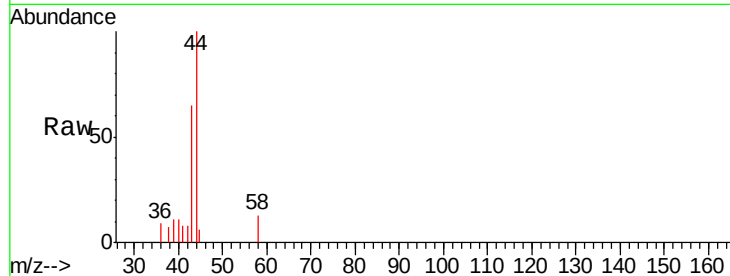
FDSB-05(25-27)

Tgt Ion: 43 Resp: 21631

Ion Ratio Lower Upper

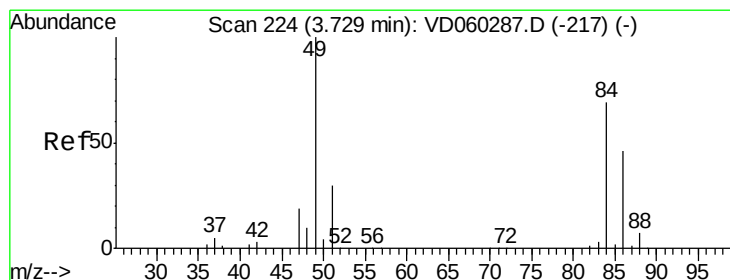
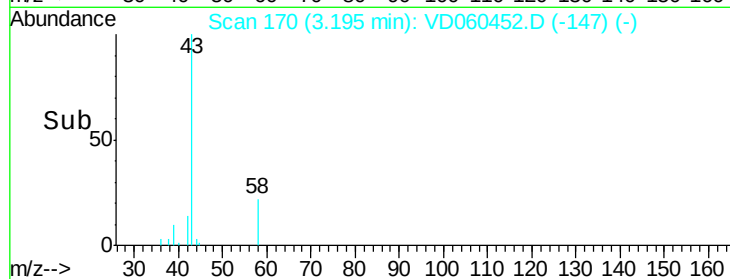
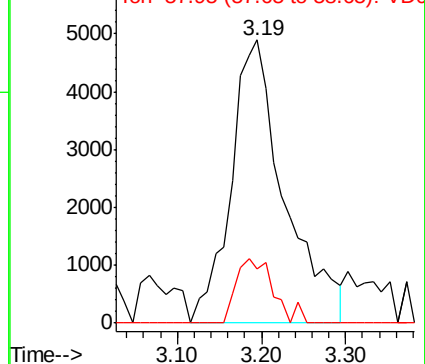
43 100

58 19.4 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: 3.19 ug/l

RT: 3.76 min Scan# 227

Delta R.T. 0.03 min

Lab File: VD060452.D

Acq: 26 Nov 2018 13:32

Tgt Ion: 84 Resp: 62121

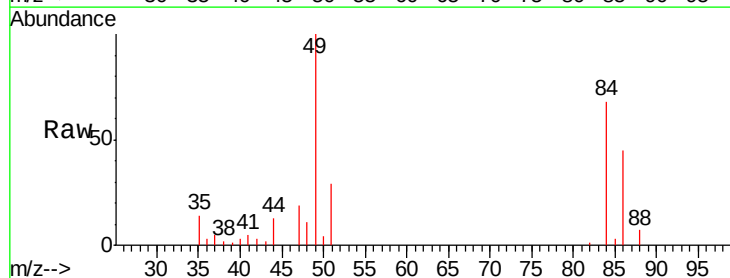
Ion Ratio Lower Upper

84 100

49 146.6 115.6 173.4

51 43.2 35.6 53.4

86 66.3 52.3 78.5

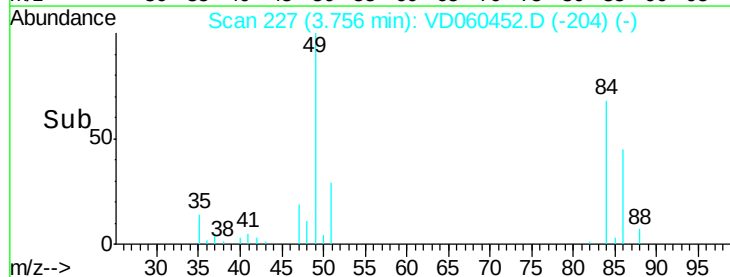
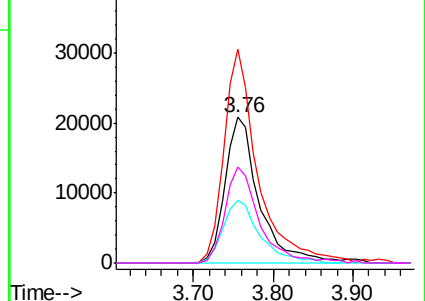


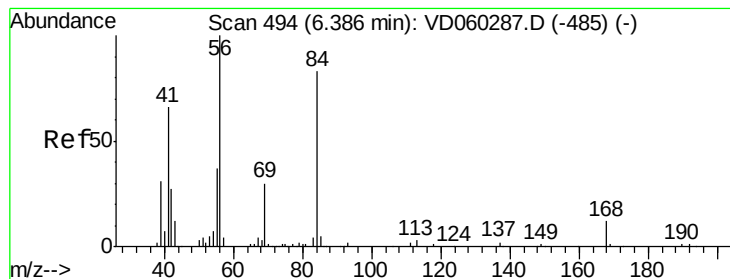
Abundance Ion 83.95 (83.65 to 84.65): VDC

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





#31

Cyclohexane

Concen: 1.10 ug/l

RT: 6.43 min Scan# 499

Delta R.T. 0.05 min

Lab File: VD060452.D

Acq: 26 Nov 2018 13:32

Instrument :

MSVOA\_D

ClientSampleId :

FDSB-05(25-27)

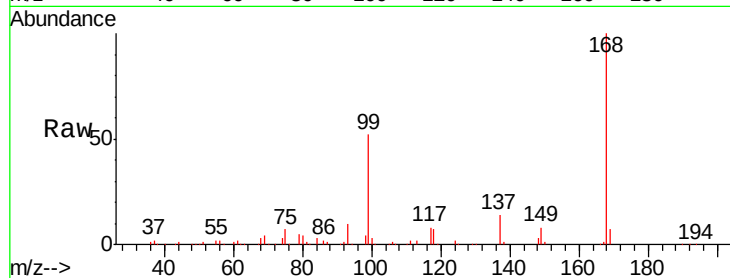
Tgt Ion: 56 Resp: 33270

Ion Ratio Lower Upper

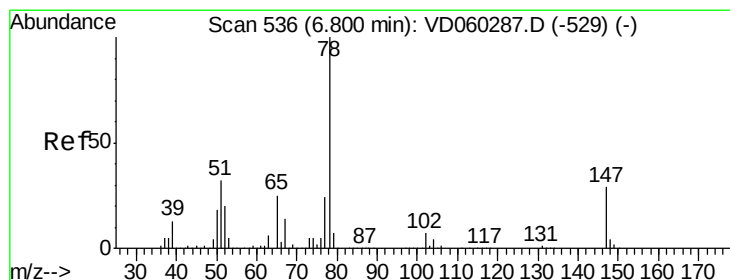
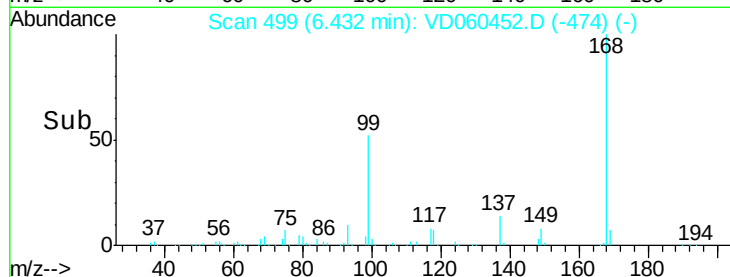
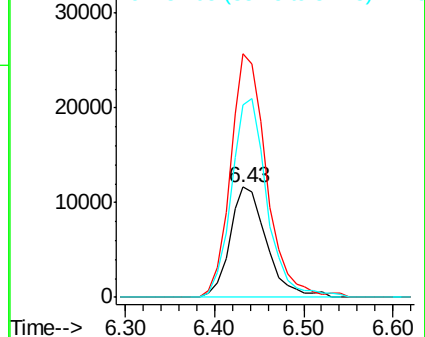
56 100

69 221.2 22.2 33.2#

84 174.8 63.0 94.4#



Abundance Ion 55.95 (55.65 to 56.65): VDC  
Ion 69.00 (68.70 to 69.70): VDC  
Ion 84.05 (83.75 to 84.75): VDC



#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 6.82 min Scan# 538

Delta R.T. 0.02 min

Lab File: VD060452.D

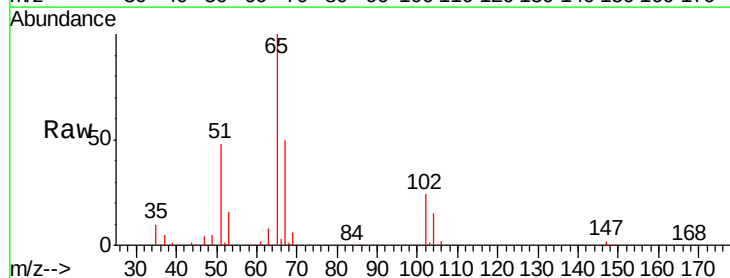
Acq: 26 Nov 2018 13:32

Tgt Ion: 65 Resp: 553295

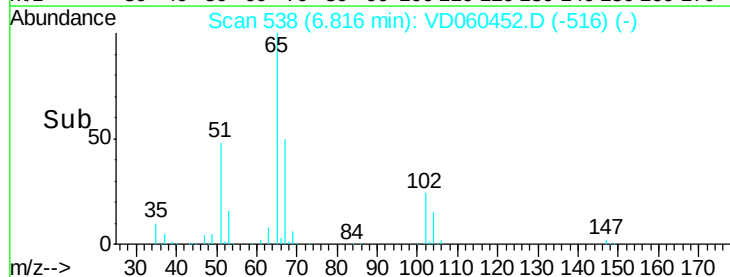
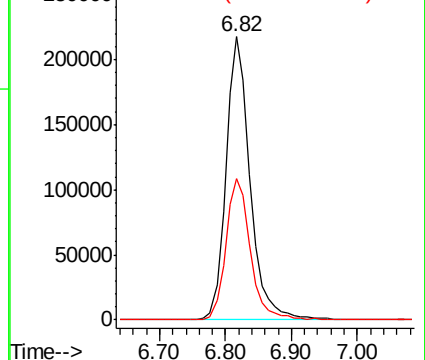
Ion Ratio Lower Upper

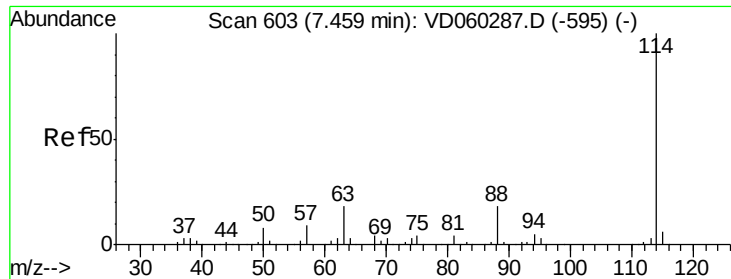
65 100

67 49.9 0.0 109.8



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

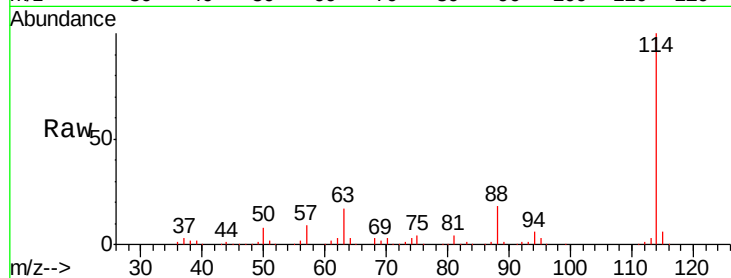




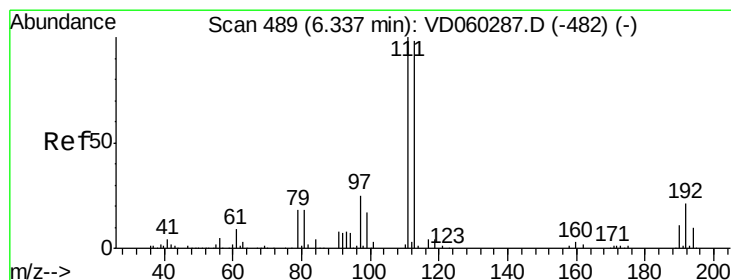
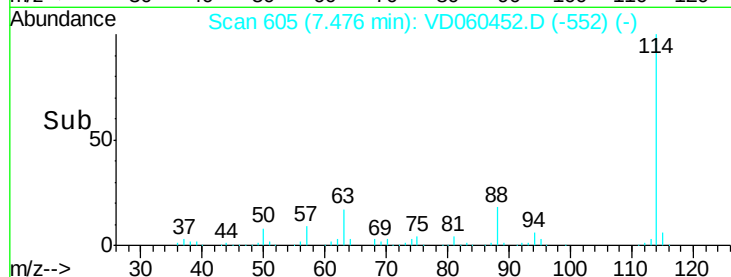
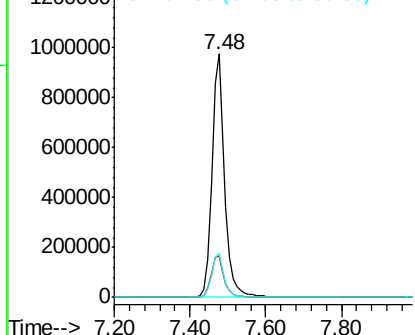
#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 7.48 min Scan# 605  
 Delta R.T. 0.02 min  
 Lab File: VD060452.D  
 Acq: 26 Nov 2018 13:32

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 FDSB-05(25-27)

Tgt Ion:114 Resp: 2339402  
 Ion Ratio Lower Upper  
 114 100  
 63 17.1 0.0 34.0  
 88 17.8 0.0 35.4

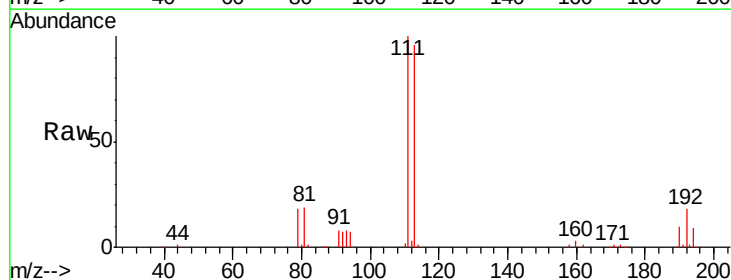


Abundance Ion 114.00 (113.70 to 114.70): V  
 Ion 62.95 (62.65 to 63.65): V  
 Ion 87.90 (87.60 to 88.60): V

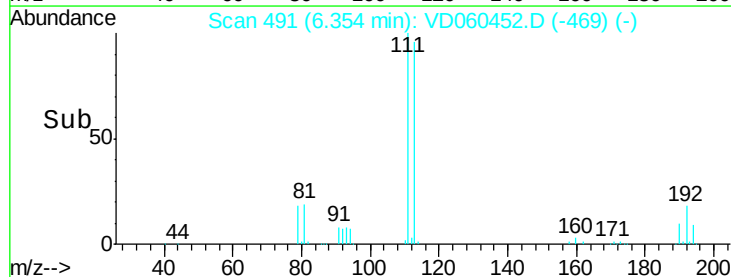
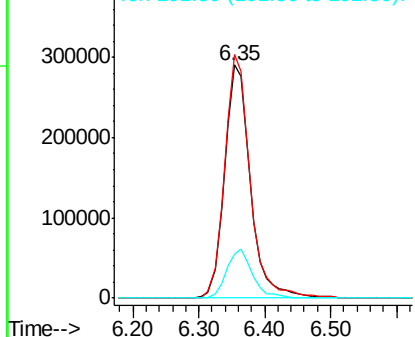


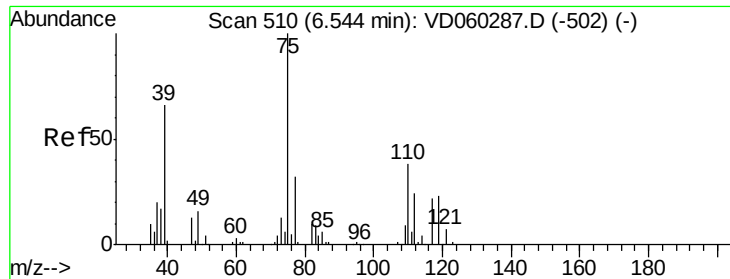
#35  
 Dibromofluoromethane  
 Concen: 50.00 ug/l  
 RT: 6.35 min Scan# 491  
 Delta R.T. 0.02 min  
 Lab File: VD060452.D  
 Acq: 26 Nov 2018 13:32

Tgt Ion:113 Resp: 801939  
 Ion Ratio Lower Upper  
 113 100  
 111 104.5 81.6 122.4  
 192 19.1 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

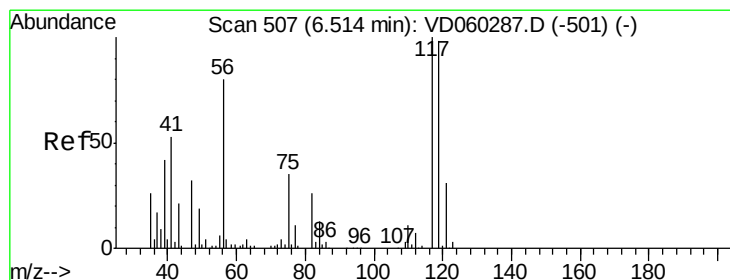
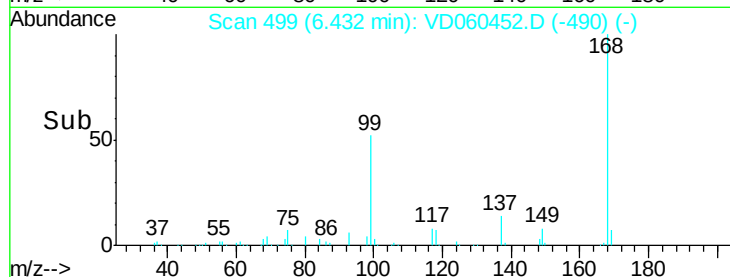
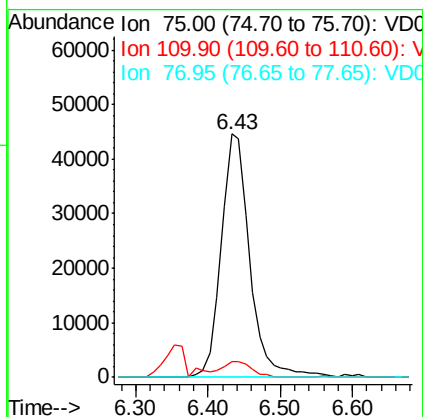
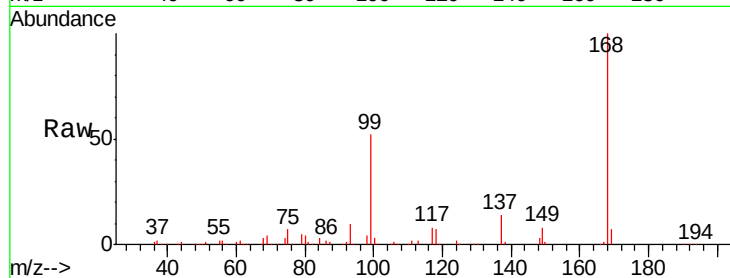




#36  
 1,1-Dichloropropene  
 Concen: 5.29 ug/l  
 RT: 6.43 min Scan# 499  
 Delta R.T. -0.11 min  
 Lab File: VD060452.D  
 Acq: 26 Nov 2018 13:32

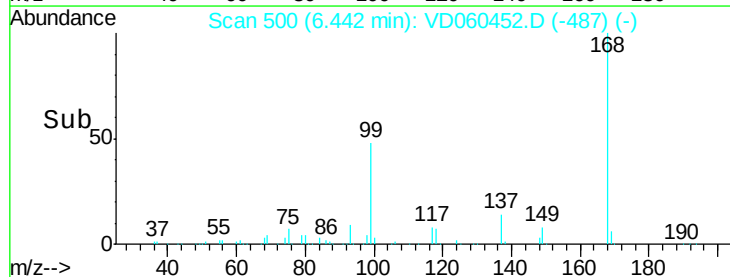
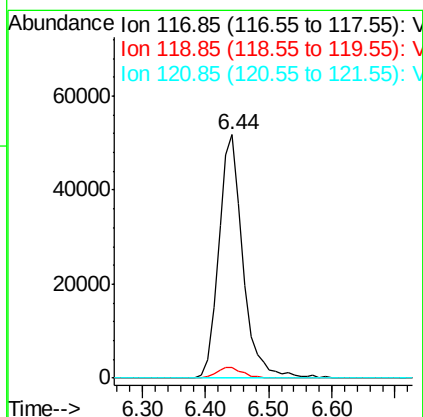
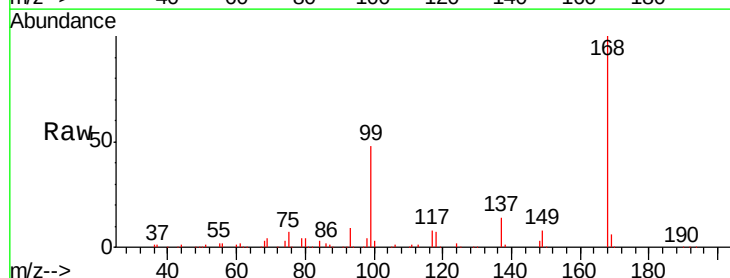
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 FDSB-05(25-27)

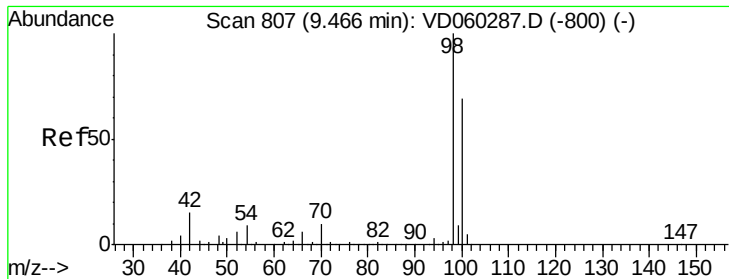
Tgt Ion: 75 Resp: 122234  
 Ion Ratio Lower Upper  
 75 100  
 110 6.5 18.0 54.0#  
 77 0.0 25.6 38.4#



#38  
 Carbon Tetrachloride  
 Concen: 6.42 ug/l  
 RT: 6.44 min Scan# 500  
 Delta R.T. -0.07 min  
 Lab File: VD060452.D  
 Acq: 26 Nov 2018 13:32

Tgt Ion: 117 Resp: 137537  
 Ion Ratio Lower Upper  
 117 100  
 119 4.5 76.6 115.0#  
 121 0.0 24.3 36.5#

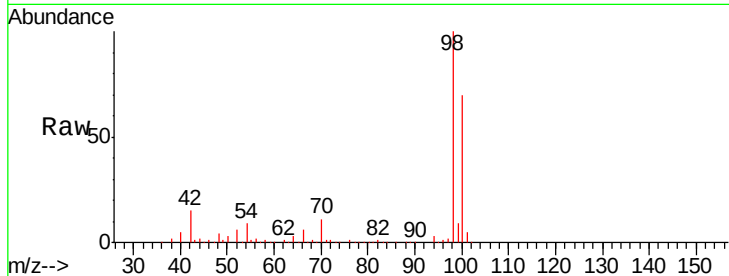




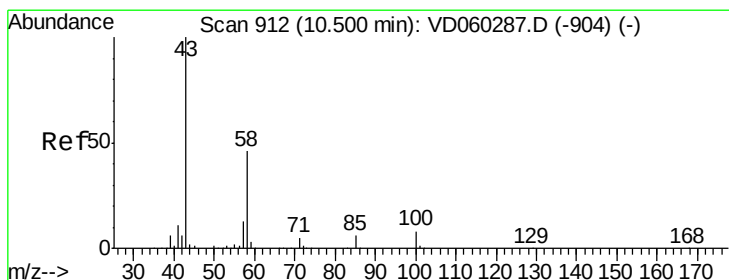
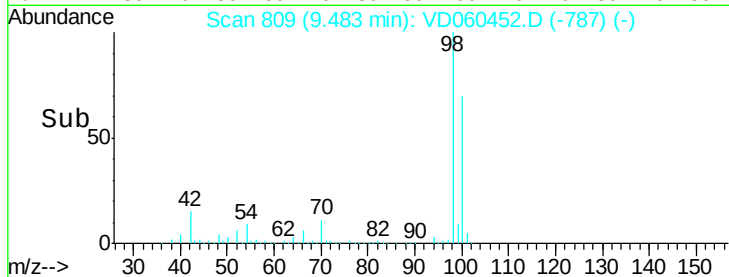
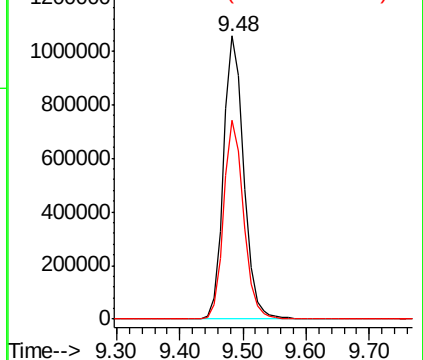
#50  
Toluene-d8  
Concen: N.D. ug/l  
RT: 9.48 min Scan# 809  
Delta R.T. 0.02 min  
Lab File: VD060452.D  
Acq: 26 Nov 2018 13:32

Instrument :  
MSVOA\_D  
ClientSampleId :  
FDSB-05(25-27)

Tgt Ion: 98 Resp: 2360466  
Ion Ratio Lower Upper  
98 100  
100 70.2 55.2 82.8

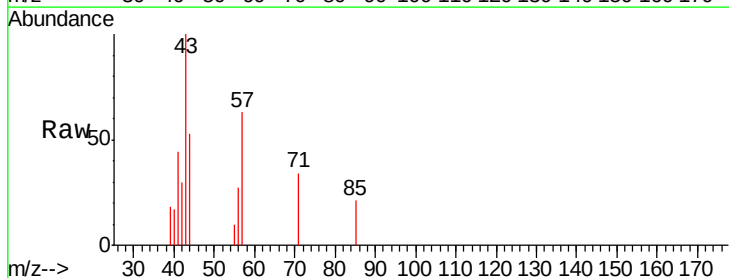


Abundance Ion 98.05 (97.75 to 98.75): VDC  
Ion 100.05 (99.75 to 100.75): VDC

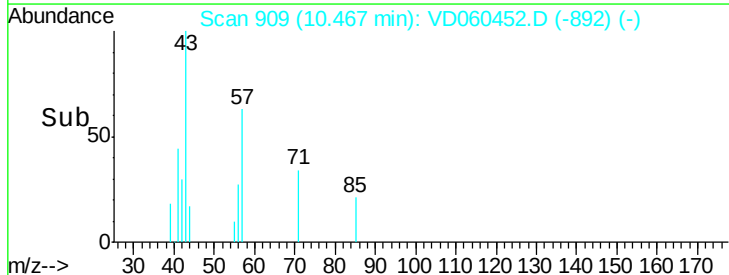
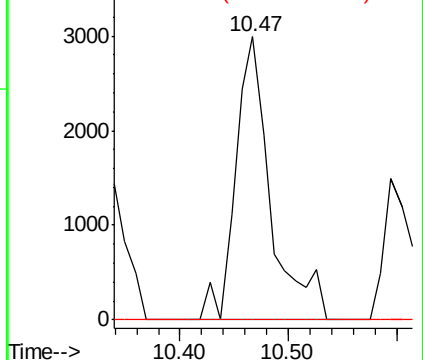


#59  
2-Hexanone  
Concen: 1.09 ug/l  
RT: 10.47 min Scan# 909  
Delta R.T. -0.03 min  
Lab File: VD060452.D  
Acq: 26 Nov 2018 13:32

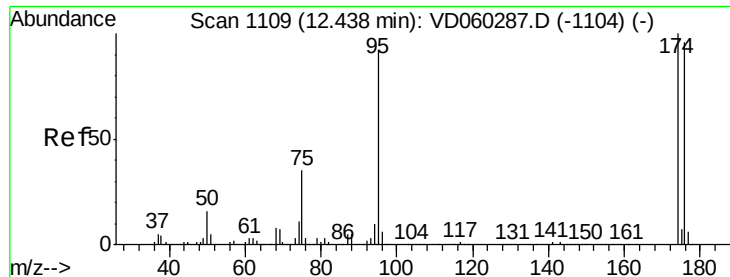
Tgt Ion: 43 Resp: 6725  
Ion Ratio Lower Upper  
43 100  
58 0.0 22.9 68.5#



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



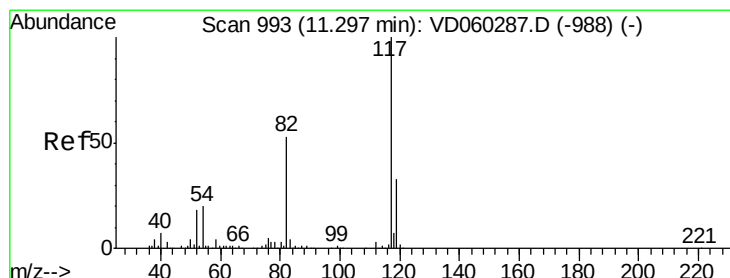
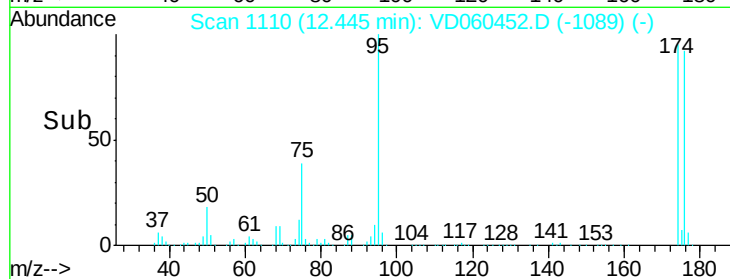
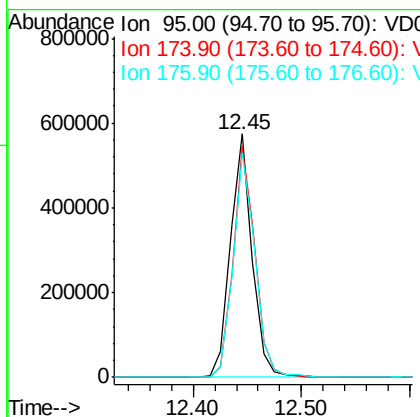
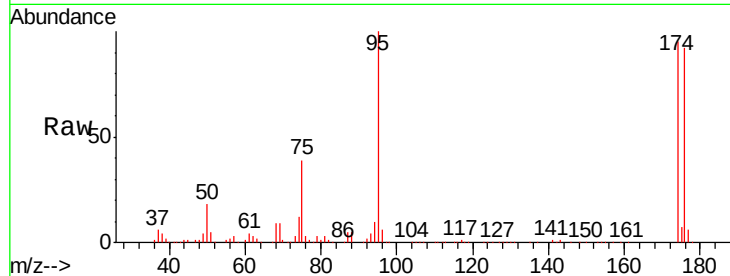




#62  
4-Bromofluorobenzene  
Concen: N.D. ug/l  
RT: 12.45 min Scan# 1110  
Delta R.T. 0.01 min  
Lab File: VD060452.D  
Acq: 26 Nov 2018 13:32

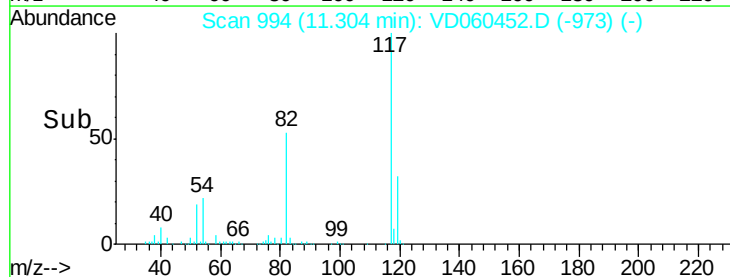
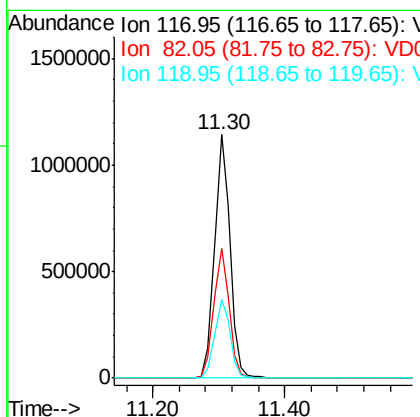
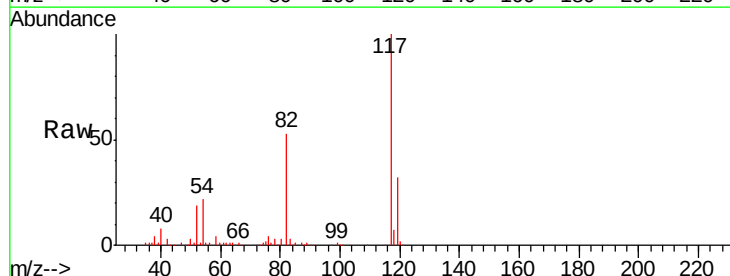
Instrument :  
MSVOA\_D  
ClientSampleId :  
FDSB-05(25-27)

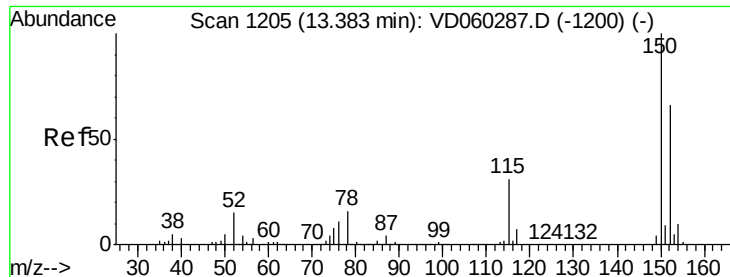
Tgt Ion: 95 Resp: 803901  
Ion Ratio Lower Upper  
95 100  
174 94.7 0.0 160.8  
176 92.0 0.0 154.6



#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.30 min Scan# 994  
Delta R.T. 0.01 min  
Lab File: VD060452.D  
Acq: 26 Nov 2018 13:32

Tgt Ion: 117 Resp: 1846444  
Ion Ratio Lower Upper  
117 100  
82 53.1 43.7 65.5  
119 32.1 26.1 39.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.39 min Scan# 1206

Delta R.T. 0.01 min

Lab File: VD060452.D

Acq: 26 Nov 2018 13:32

Instrument :

MSVOA\_D

ClientSampleId :

FDSB-05(25-27)

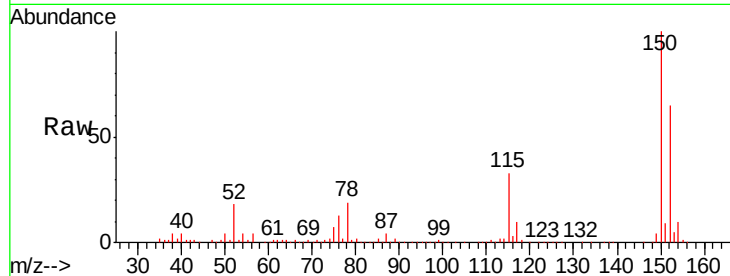
Tgt Ion: 152 Resp: 898365

Ion Ratio Lower Upper

152 100

115 51.1 24.1 72.3

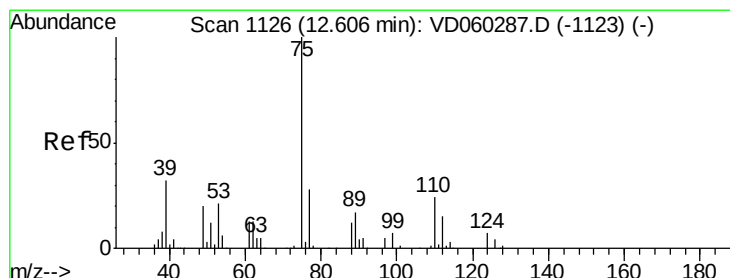
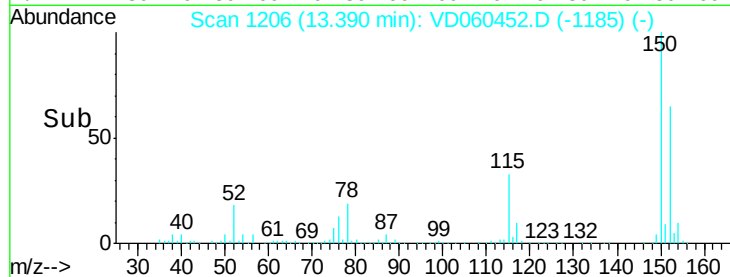
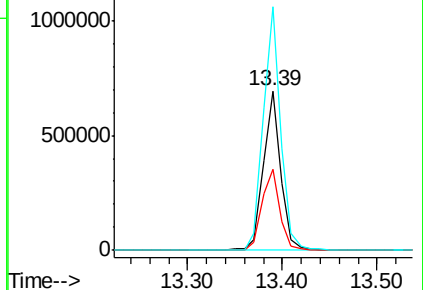
150 152.8 0.0 310.6



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



#76

1,2,3-Trichloropropane

Concen: 27.87 ug/l

RT: 12.45 min Scan# 1110

Delta R.T. -0.16 min

Lab File: VD060452.D

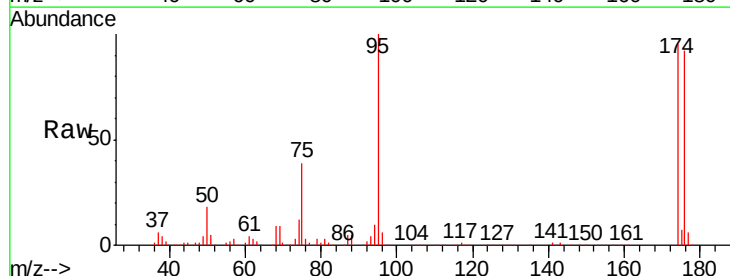
Acq: 26 Nov 2018 13:32

Tgt Ion: 75 Resp: 299490

Ion Ratio Lower Upper

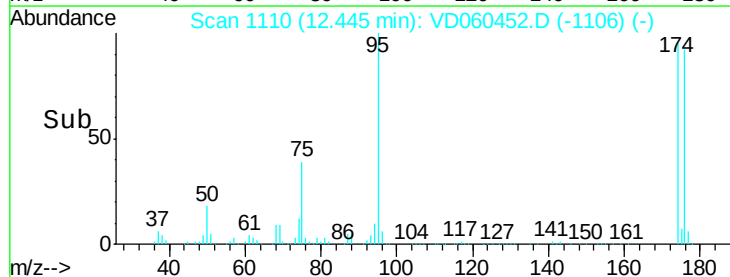
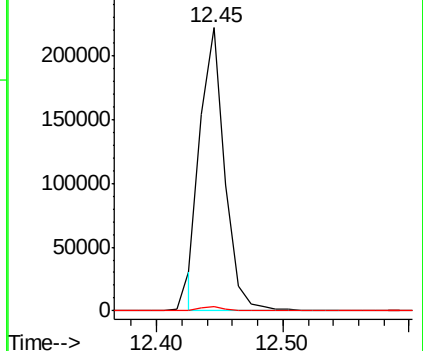
75 100

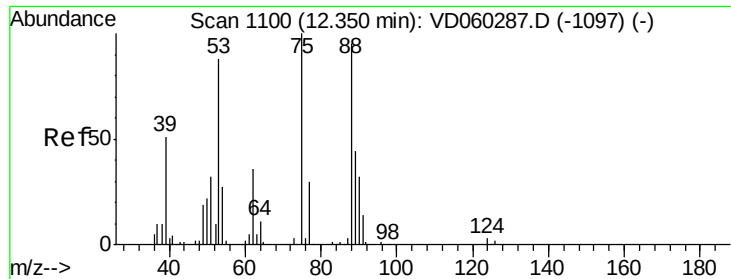
77 1.3 16.4 49.1#



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 76.95 (76.65 to 77.65): V





#81

trans-1,4-Dichloro-2-butene

Concen: 103.84 ug/l

RT: 12.45 min Scan# 1110

Delta R.T. 0.10 min

Lab File: VD060452.D

Acq: 26 Nov 2018 13:32

Instrument :

MSVOA\_D

ClientSampleId :

FDSB-05(25-27)

Tgt Ion: 75 Resp: 317703

Ion Ratio Lower Upper

75 100

53 0.0 68.6 103.0#

89 0.0 34.1 51.1#

