

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW051719\  
 Data File : VW010432.D  
 Acq On : 18 May 2019 01:52  
 Operator : SY/VA  
 Sample : K2845-02  
 Misc : 6.32G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 FEBH-02

Quant Time: May 18 05:07:08 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W051719S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat May 18 01:59:40 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 664524   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 1247006  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 1077801  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 448390   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.31  | 65   | 410414   | 56.31 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 112.62% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 392544   | 50.97 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.94% |          |
| 50) Toluene-d8              | 10.32 | 98   | 1506744  | 52.46 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.92% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 552402   | 48.99 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.98%  |          |

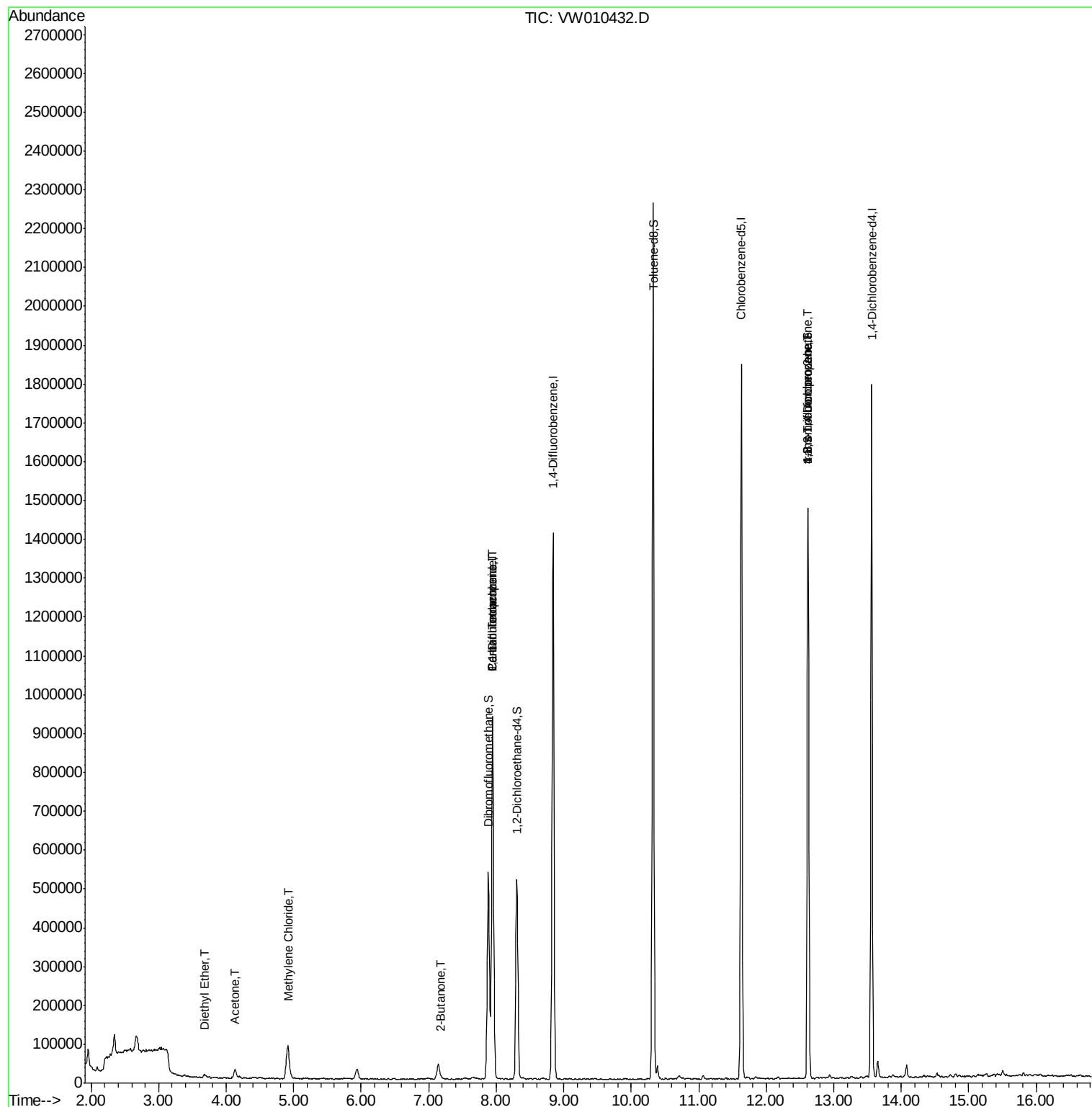
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 2) Dichlorodifluoromethane     | 2.00  | 85   | 661      | Below Cal | #     | 42     |
| 3) Chloromethane               | 2.21  | 50   | 1756     | Below Cal | #     | 53     |
| 5) Bromomethane                | 2.78  | 94   | 1535     | Below Cal | #     | 57     |
| 8) Diethyl Ether               | 3.68  | 74   | 4836     | 1.231     | ug/l  | 98     |
| 13) Acrolein                   | 3.91  | 56   | 961      | Below Cal | #     | 33     |
| 16) Acetone                    | 4.13  | 43   | 42735    | 33.288    | ug/l  | 97     |
| 20) Methylene Chloride         | 4.92  | 84   | 68892    | 6.932     | ug/l  | 97     |
| 25) 2-Butanone                 | 7.18  | 43   | 2433     | 1.112     | ug/l  | 95     |
| 31) Cyclohexane                | 7.94  | 56   | 14302    | Below Cal | #     | 2      |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 54263    | 4.915     | ug/l  | 49     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 73211    | 6.145     | ug/l  | 16     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 269759   | 56.183    | ug/l  | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 269759   | 110.867   | ug/l  | 14     |

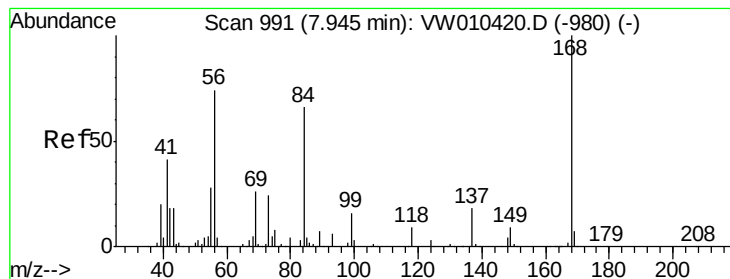
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW051719\  
Data File : VW010432.D  
Acq On : 18 May 2019 01:52  
Operator : SY/VA  
Sample : K2845-02  
Misc : 6.32G/5ML/MSVOA\_W/SOIL  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
FEBH-02

Quant Time: May 18 05:07:08 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W051719S.M  
Quant Title : SW846 8260  
QLast Update : Sat May 18 01:59:40 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW010432.D

Acq: 18 May 2019 01:52

Instrument :

MSVOA\_W

ClientSampled :

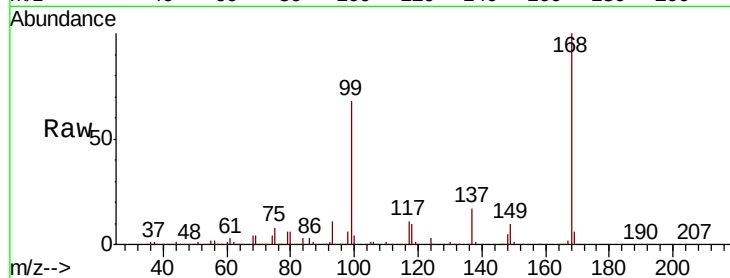
FEBH-02

Tgt Ion:168 Resp: 664524

Ion Ratio Lower Upper

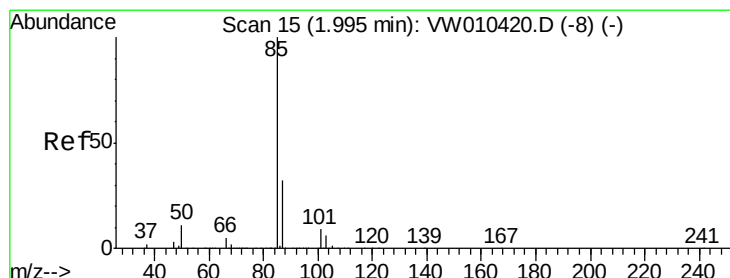
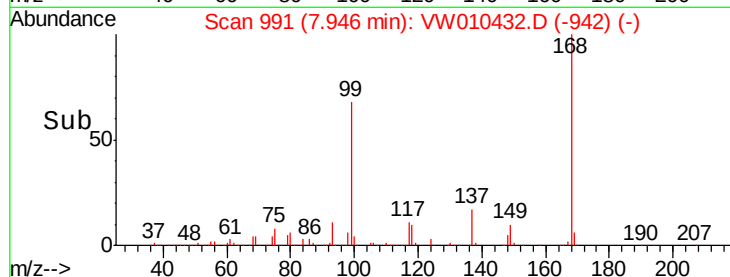
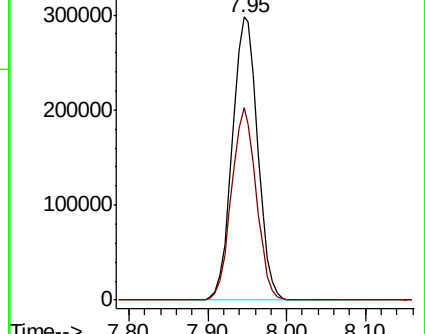
168 100

99 67.8 50.8 76.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.00 min Scan# 15

Delta R.T. 0.00 min

Lab File: VW010432.D

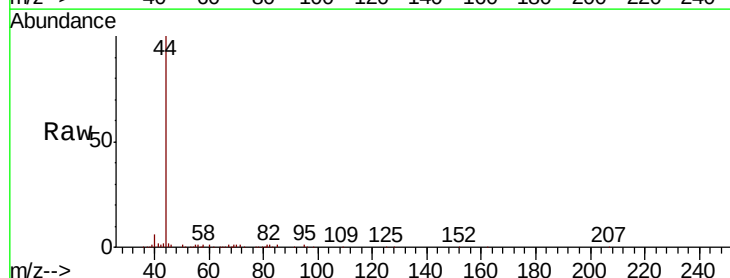
Acq: 18 May 2019 01:52

Tgt Ion: 85 Resp: 661

Ion Ratio Lower Upper

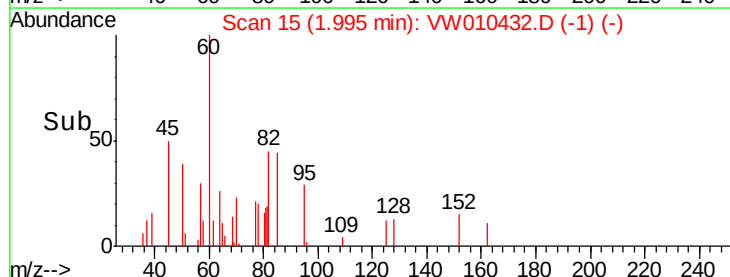
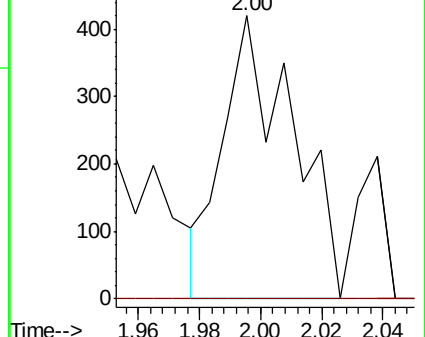
85 100

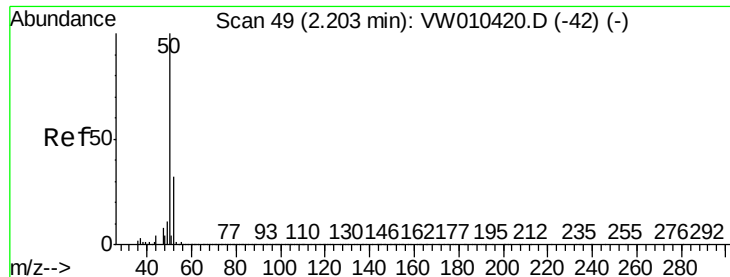
87 0.0 16.2 48.5#



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW





#3

Chloromethane

Concen: Below Cal

RT: 2.21 min Scan# 50

Delta R.T. 0.01 min

Lab File: VW010432.D

Acq: 18 May 2019 01:52

Instrument :

MSVOA\_W

ClientSampleId :

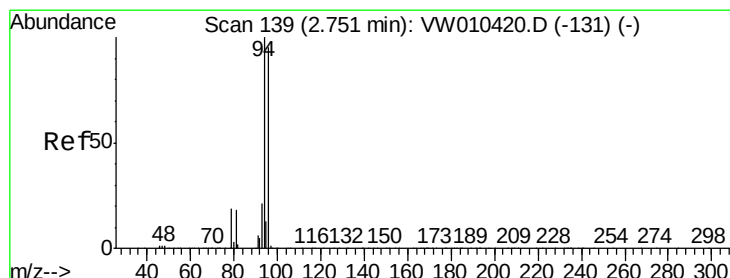
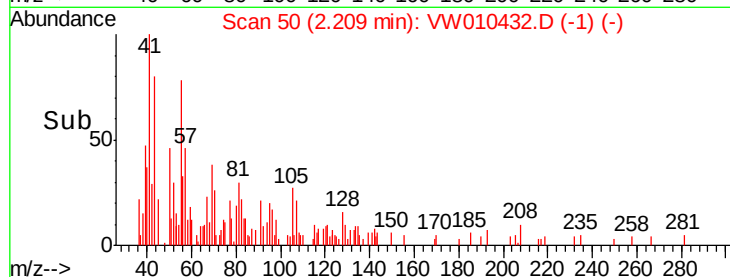
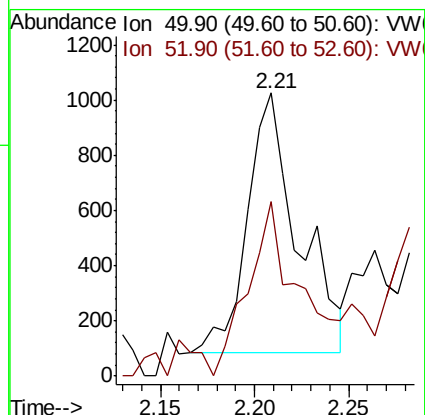
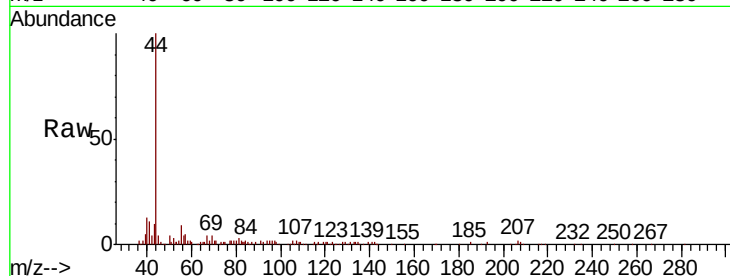
FEBH-02

Tgt Ion: 50 Resp: 1756

Ion Ratio Lower Upper

50 100

52 57.9 25.4 38.0#



#5

Bromomethane

Concen: Below Cal

RT: 2.78 min Scan# 143

Delta R.T. 0.02 min

Lab File: VW010432.D

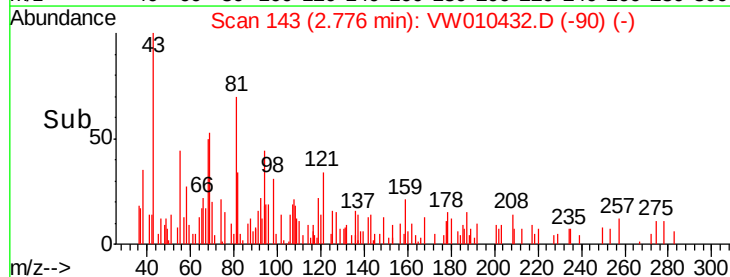
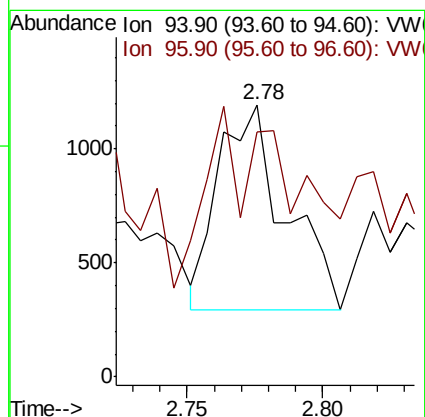
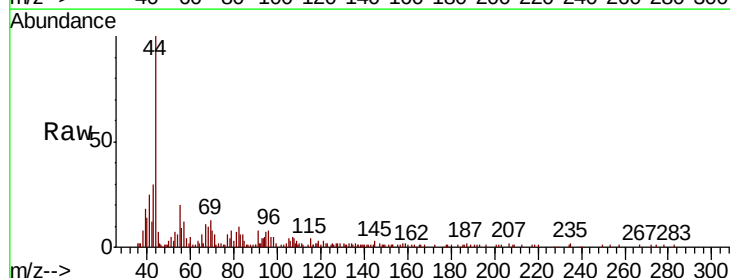
Acq: 18 May 2019 01:52

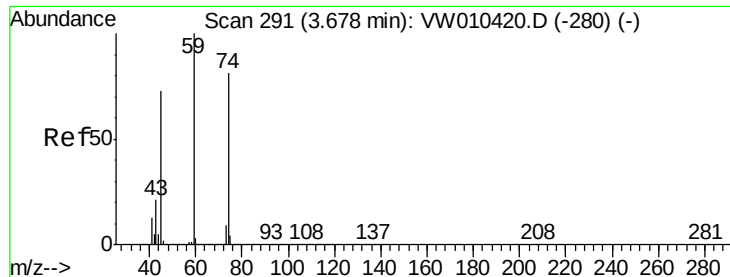
Tgt Ion: 94 Resp: 1535

Ion Ratio Lower Upper

94 100

96 53.0 75.8 113.6#





#8

Diethyl Ether

Concen: 1.231 ug/l

RT: 3.68 min Scan# 291

Delta R.T. 0.00 min

Lab File: VW010432.D

Acq: 18 May 2019 01:52

Instrument :

MSVOA\_W

ClientSampleId :

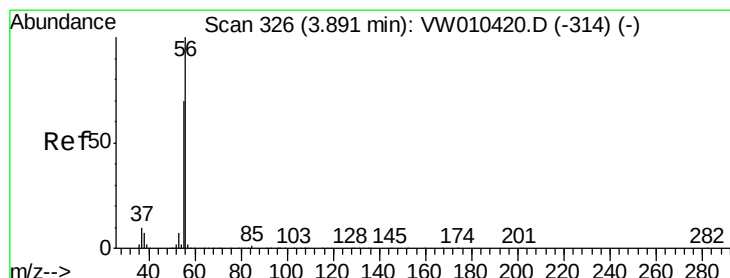
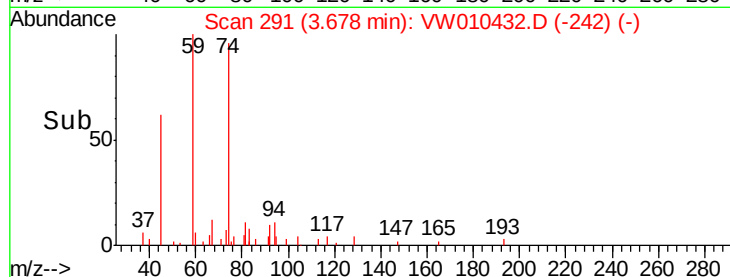
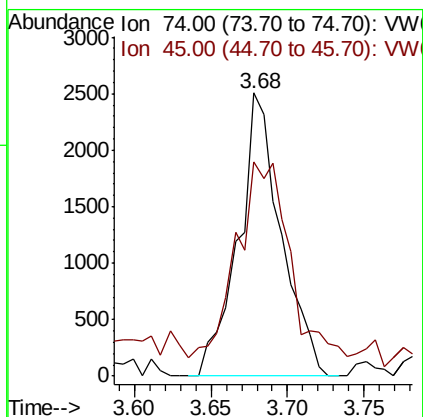
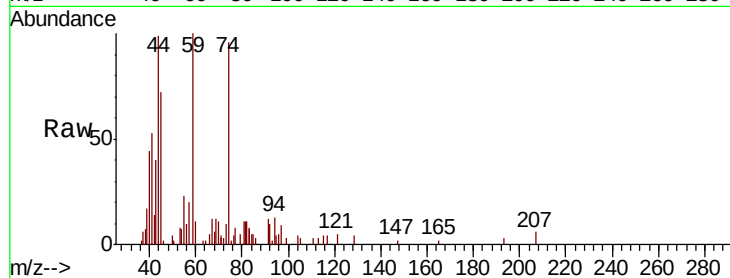
FEBH-02

Tgt Ion: 74 Resp: 4836

Ion Ratio Lower Upper

74 100

45 85.0 43.4 130.2



#13

Acrolein

Concen: Below Cal

RT: 3.91 min Scan# 329

Delta R.T. 0.02 min

Lab File: VW010432.D

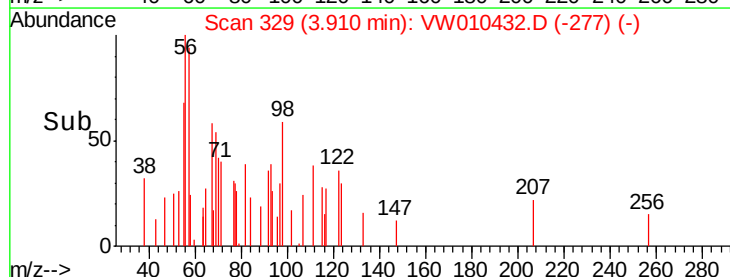
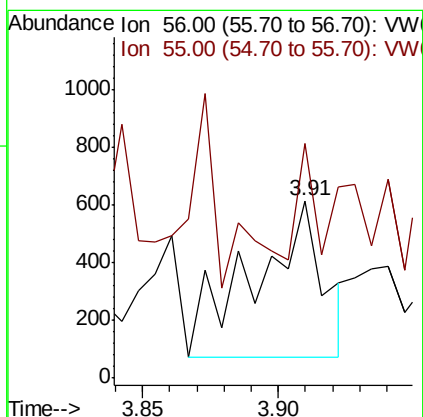
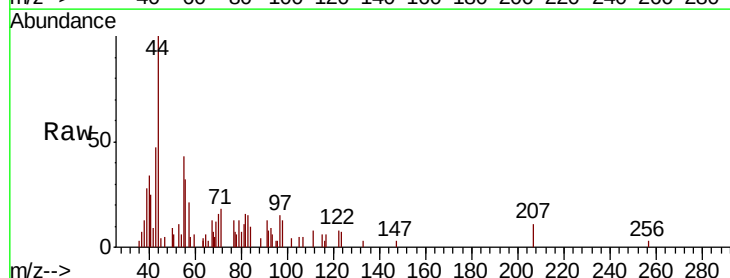
Acq: 18 May 2019 01:52

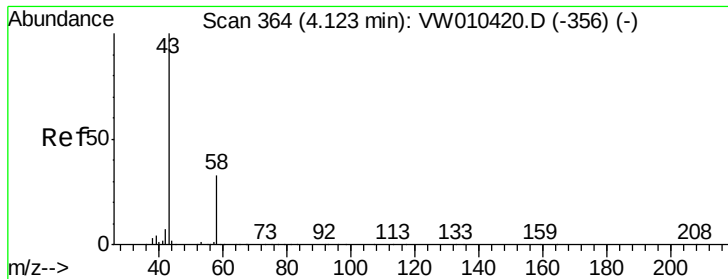
Tgt Ion: 56 Resp: 961

Ion Ratio Lower Upper

56 100

55 16.1 57.6 86.4#

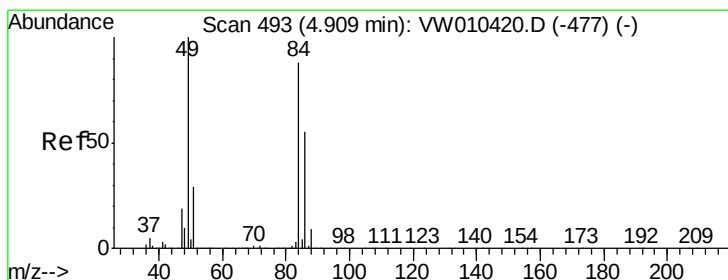
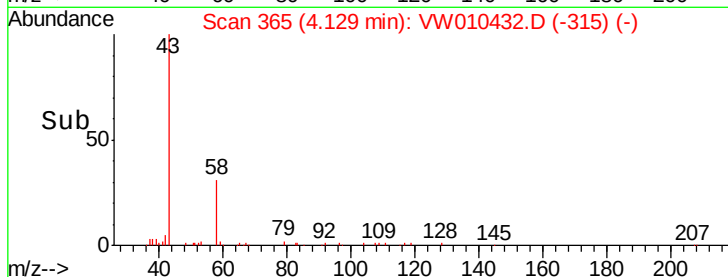
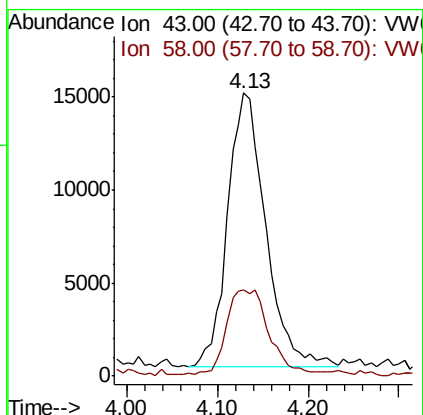
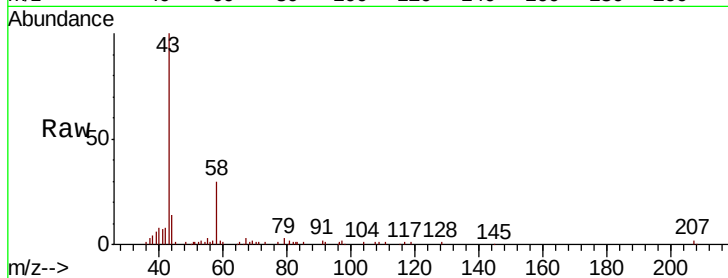




#16  
Acetone  
Concen: 33.288 ug/l  
RT: 4.13 min Scan# 365  
Delta R.T. 0.01 min  
Lab File: VW010432.D  
Acq: 18 May 2019 01:52

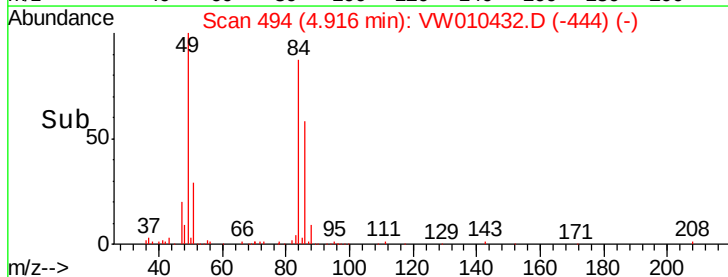
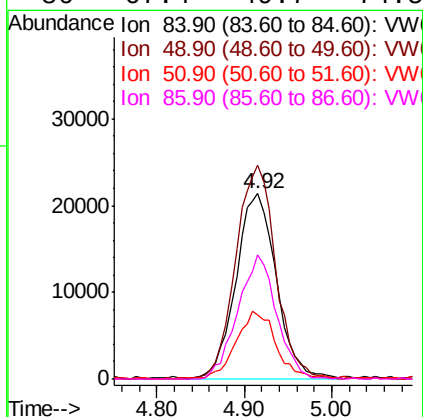
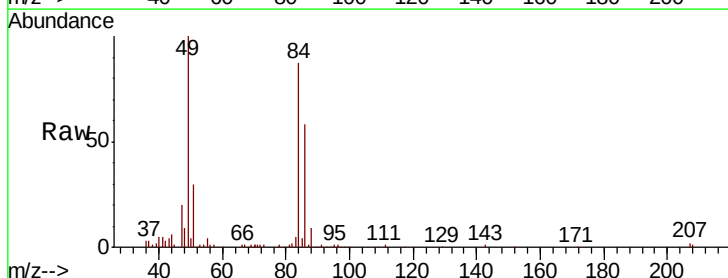
Instrument :  
MSVOA\_W  
ClientSampleId :  
FEBH-02

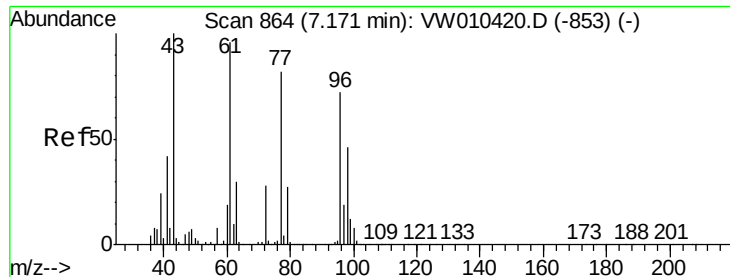
Tgt Ion: 43 Resp: 42735  
Ion Ratio Lower Upper  
43 100  
58 30.6 26.0 39.0



#20  
Methylene Chloride  
Concen: 6.932 ug/l  
RT: 4.92 min Scan# 494  
Delta R.T. 0.01 min  
Lab File: VW010432.D  
Acq: 18 May 2019 01:52

Tgt Ion: 84 Resp: 68892  
Ion Ratio Lower Upper  
84 100  
49 115.4 90.6 135.8  
51 33.9 26.6 40.0  
86 67.4 49.7 74.5





#25

2-Butanone

Concen: 1.112 ug/l

RT: 7.18 min Scan# 866

Delta R.T. 0.01 min

Lab File: VW010432.D

Acq: 18 May 2019 01:52

Instrument :

MSVOA\_W

ClientSampled :

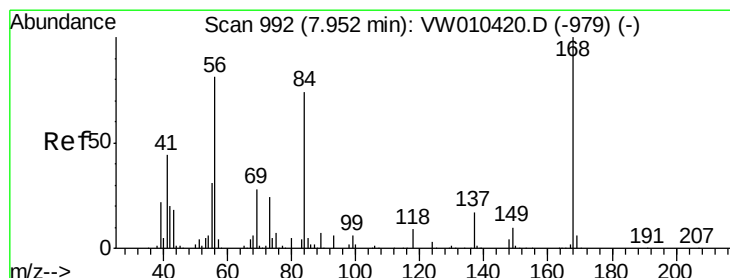
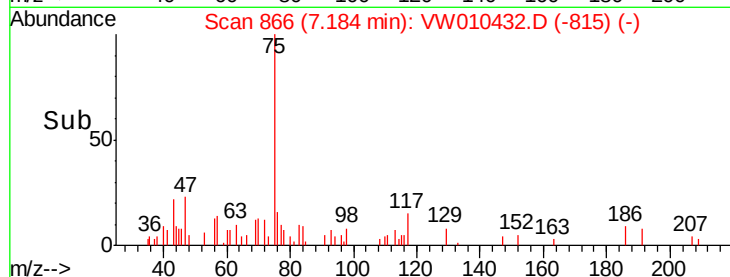
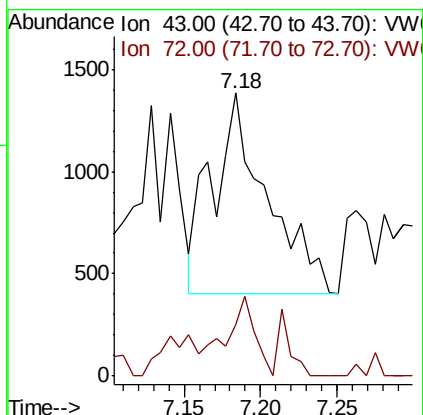
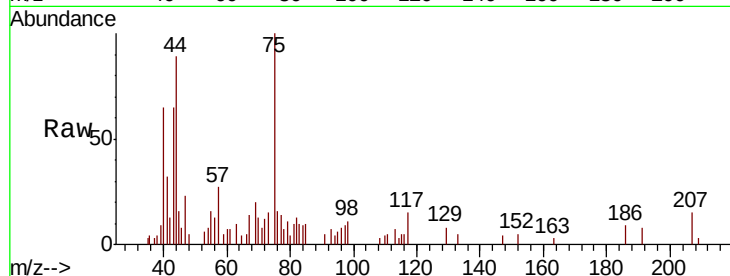
FEBH-02

Tgt Ion: 43 Resp: 2433

Ion Ratio Lower Upper

43 100

72 25.5 22.6 33.8



#31

Cyclohexane

Concen: Below Cal

RT: 7.94 min Scan# 990

Delta R.T. -0.01 min

Lab File: VW010432.D

Acq: 18 May 2019 01:52

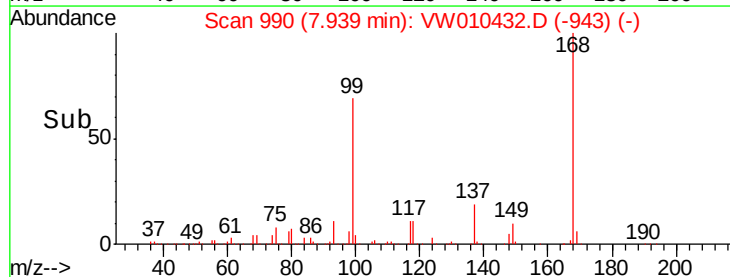
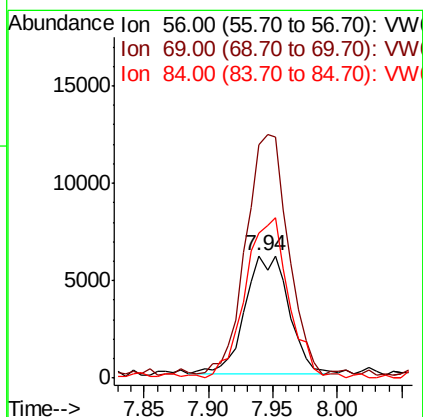
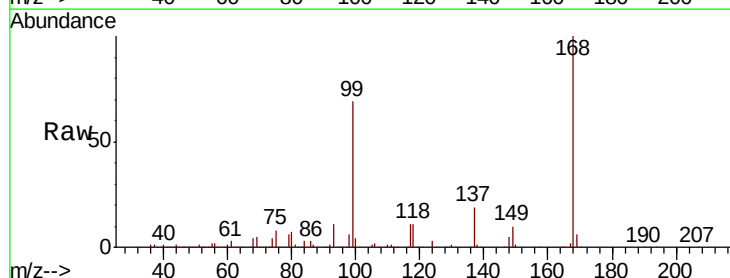
Tgt Ion: 56 Resp: 14302

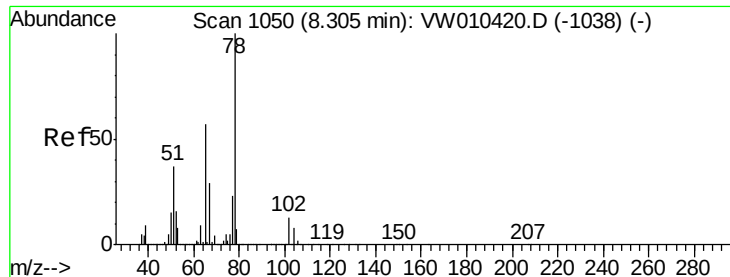
Ion Ratio Lower Upper

56 100

69 193.9 27.6 41.4#

84 120.2 72.9 109.3#

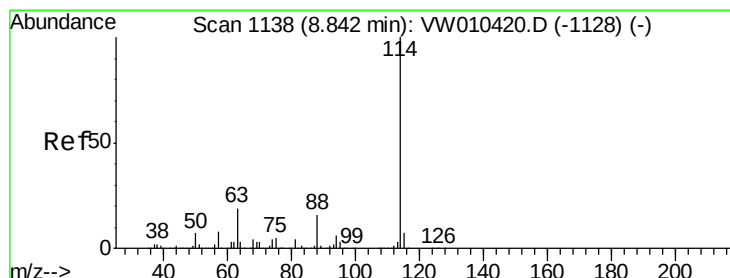
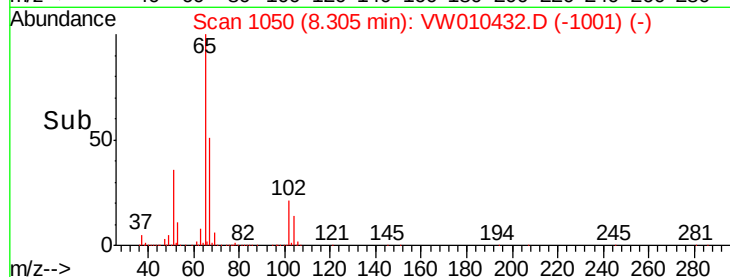
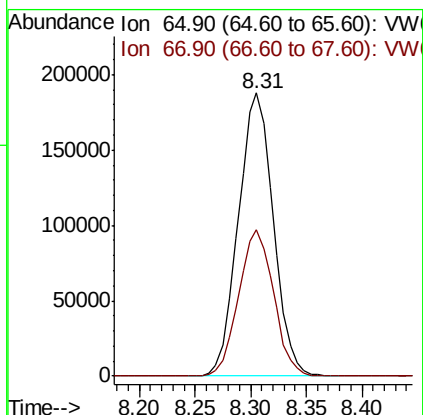
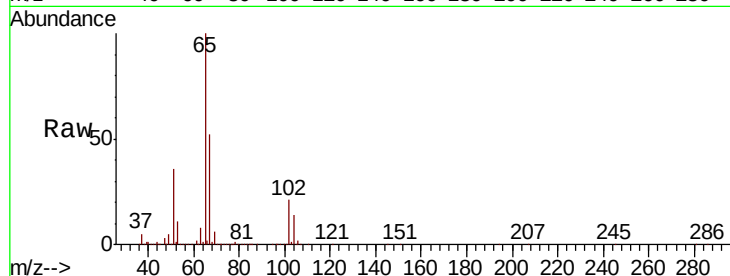




#33  
 1,2-Dichloroethane-d4  
 Concen: 56.314 ug/l  
 RT: 8.31 min Scan# 1050  
 Delta R.T. 0.00 min  
 Lab File: VW010432.D  
 Acq: 18 May 2019 01:52

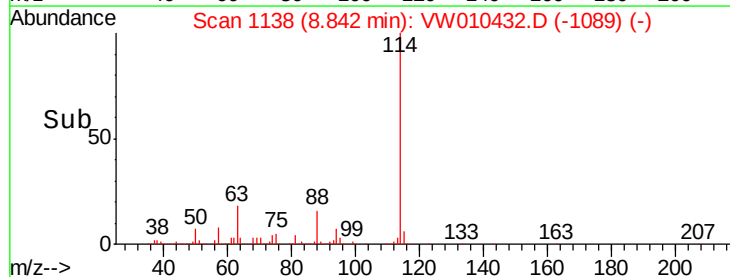
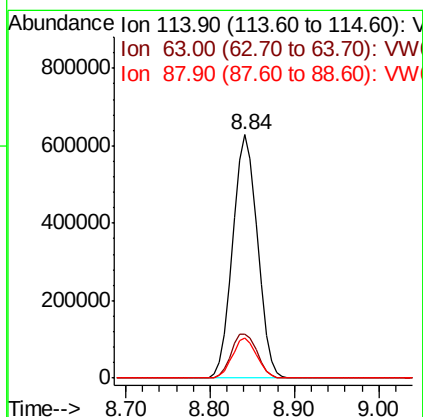
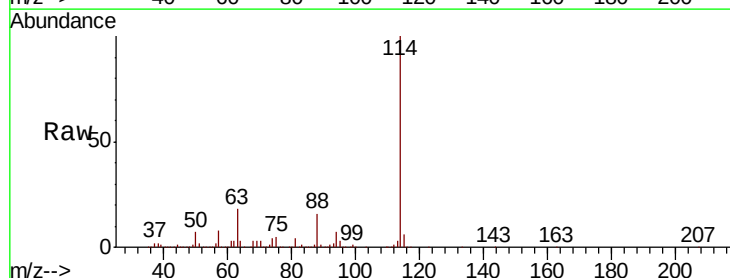
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 FEBH-02

Tgt Ion: 65 Resp: 410414  
 Ion Ratio Lower Upper  
 65 100  
 67 51.5 0.0 104.2

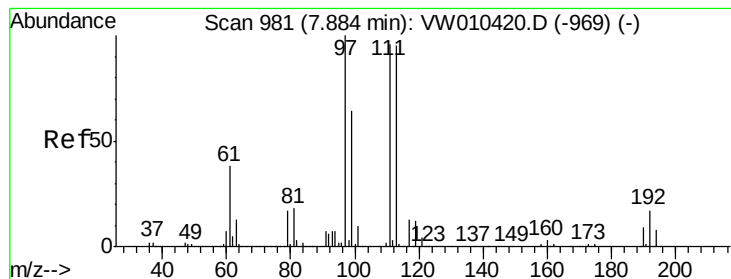


#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. 0.00 min  
 Lab File: VW010432.D  
 Acq: 18 May 2019 01:52

Tgt Ion: 114 Resp: 1247006  
 Ion Ratio Lower Upper  
 114 100  
 63 18.3 0.0 38.8  
 88 16.4 0.0 31.6







#35

Dibromofluoromethane

Concen: 50.968 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.00 min

Lab File: VW010432.D

Acq: 18 May 2019 01:52

Instrument :

MSVOA\_W

ClientSampleId :

FEBH-02

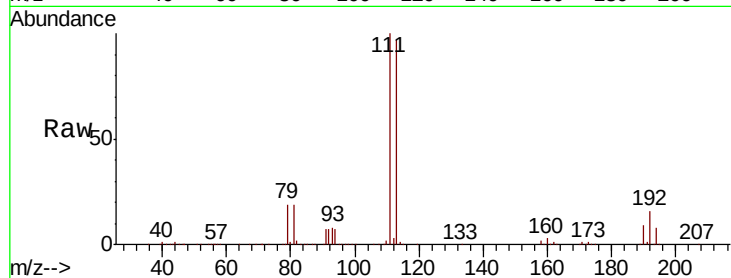
Tgt Ion:113 Resp: 392544

Ion Ratio Lower Upper

113 100

111 103.1 82.5 123.7

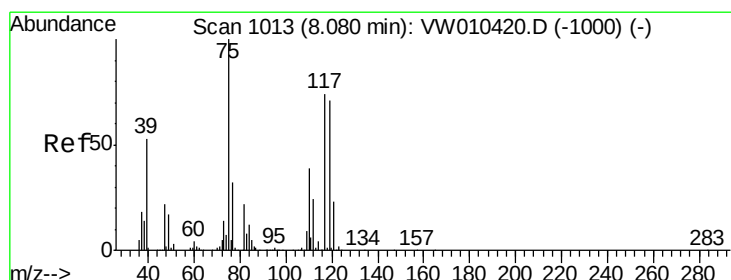
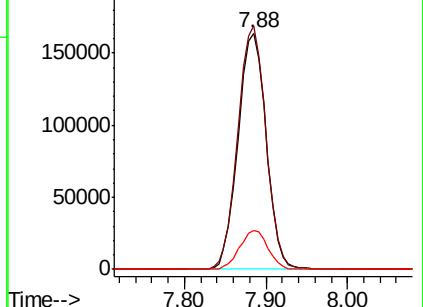
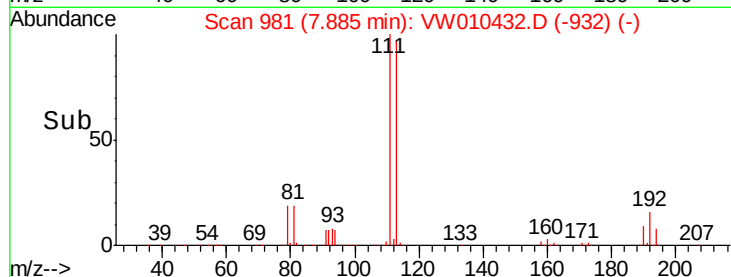
192 16.6 14.2 21.4



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.915 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW010432.D

Acq: 18 May 2019 01:52

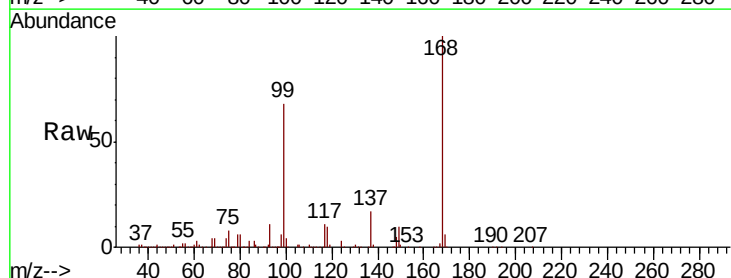
Tgt Ion: 75 Resp: 54263

Ion Ratio Lower Upper

75 100

110 9.5 19.4 58.1#

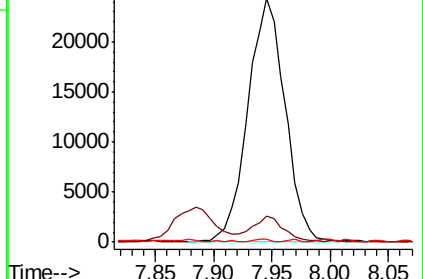
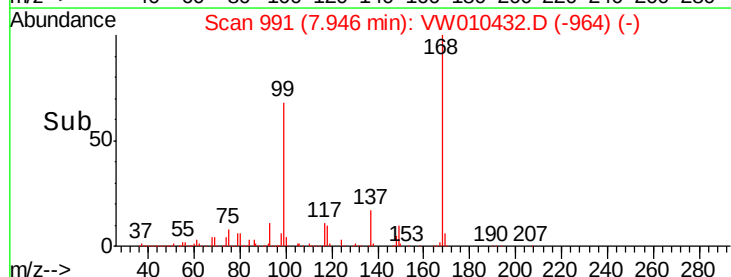
77 0.5 24.7 37.1#

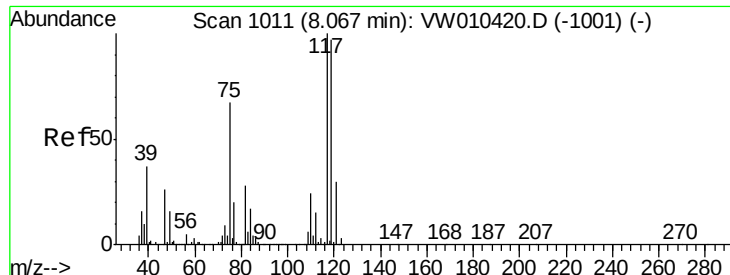


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW





#38

Carbon Tetrachloride

Concen: 6.145 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW010432.D

Acq: 18 May 2019 01:52

Instrument :

MSVOA\_W

ClientSampleId :

FEBH-02

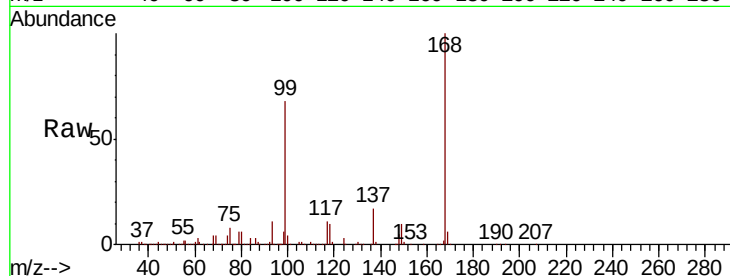
Tgt Ion:117 Resp: 73211

Ion Ratio Lower Upper

117 100

119 5.7 77.8 116.6#

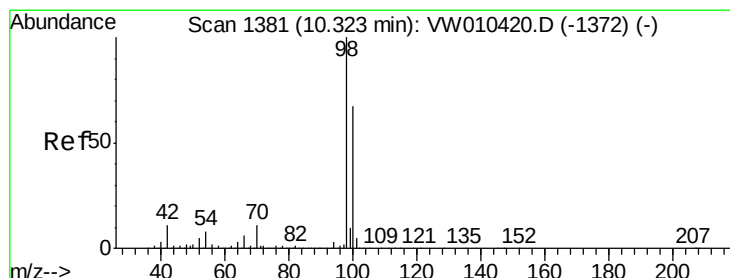
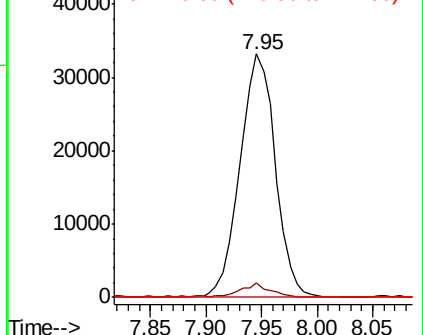
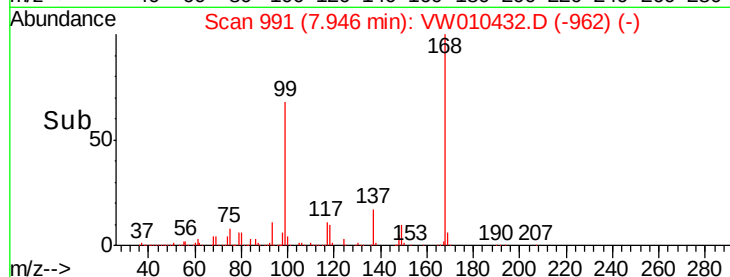
121 0.0 24.2 36.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 52.461 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW010432.D

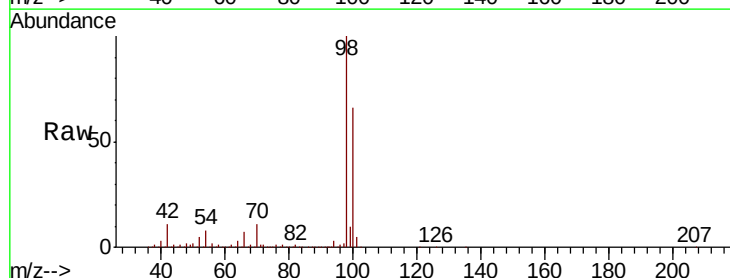
Acq: 18 May 2019 01:52

Tgt Ion: 98 Resp: 1506744

Ion Ratio Lower Upper

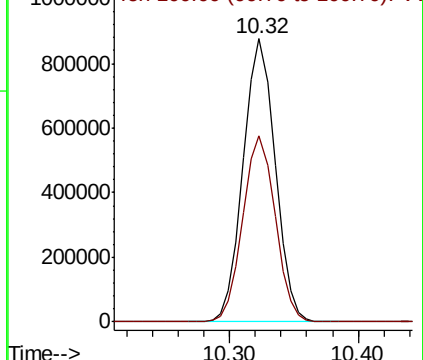
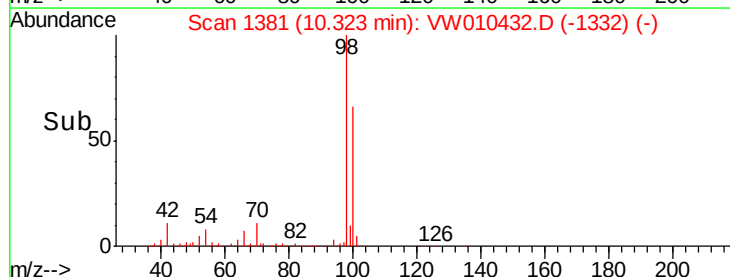
98 100

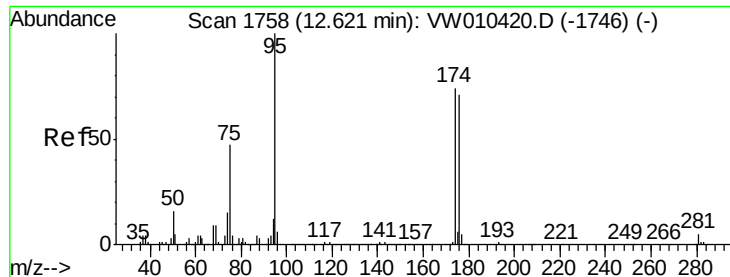
100 66.6 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW

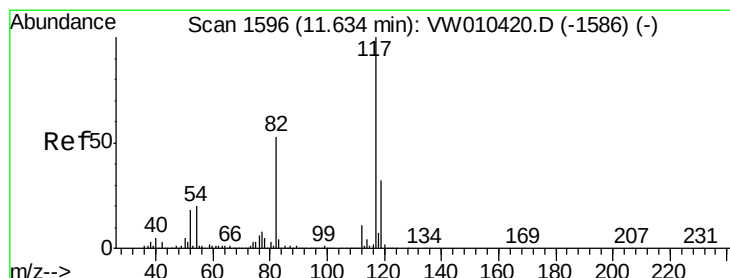
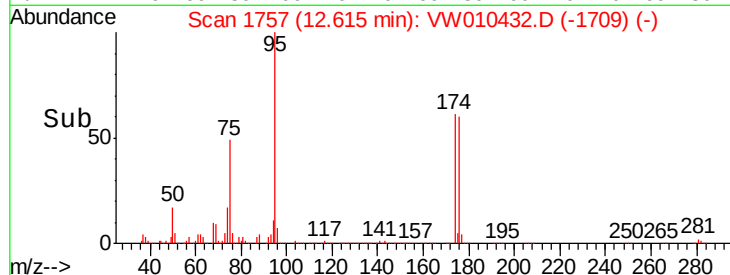
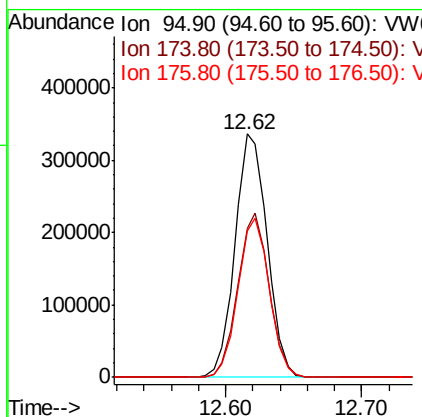
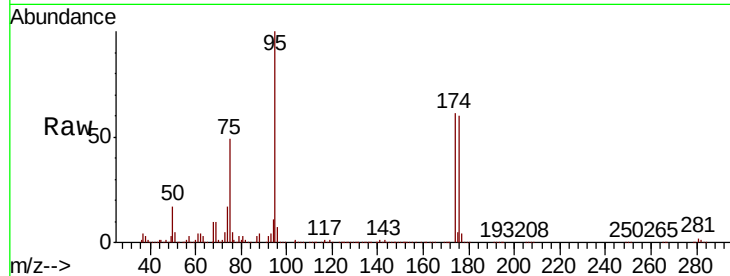




#62  
4-Bromofluorobenzene  
Concen: 48.988 ug/l  
RT: 12.62 min Scan# 1757  
Delta R.T. -0.01 min  
Lab File: VW010432.D  
Acq: 18 May 2019 01:52

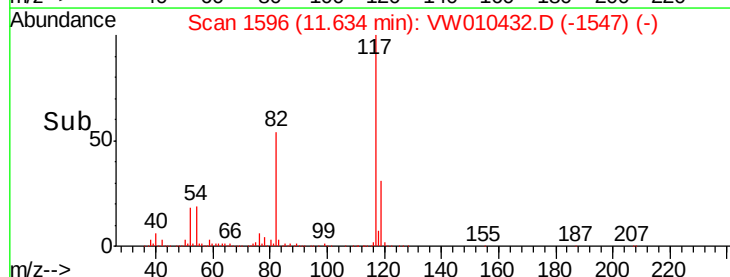
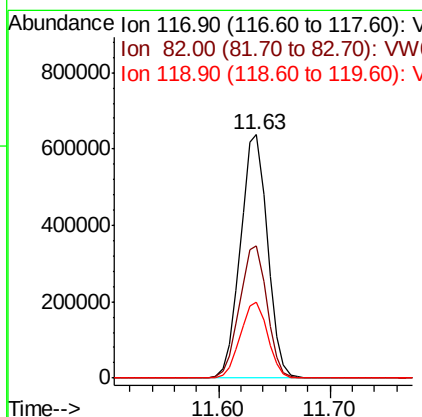
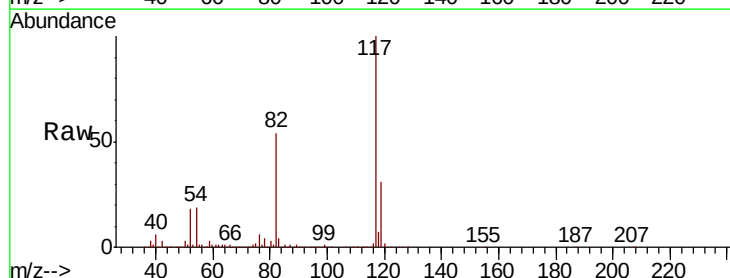
Instrument :  
MSVOA\_W  
ClientSampleId :  
FEBH-02

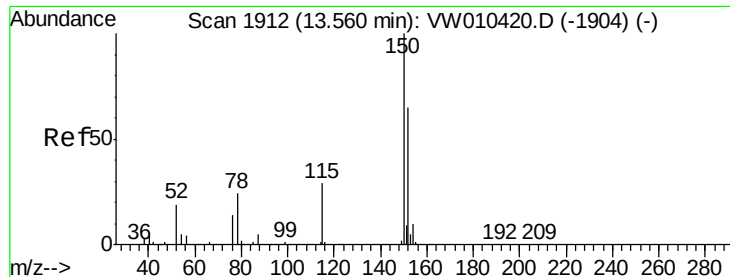
Tgt Ion: 95 Resp: 552402  
Ion Ratio Lower Upper  
95 100  
174 66.0 0.0 146.6  
176 64.0 0.0 141.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. 0.00 min  
Lab File: VW010432.D  
Acq: 18 May 2019 01:52

Tgt Ion: 117 Resp: 1077801  
Ion Ratio Lower Upper  
117 100  
82 54.4 42.1 63.1  
119 31.2 25.6 38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW010432.D

Acq: 18 May 2019 01:52

Instrument :

MSVOA\_W

ClientSampleId :

FEBH-02

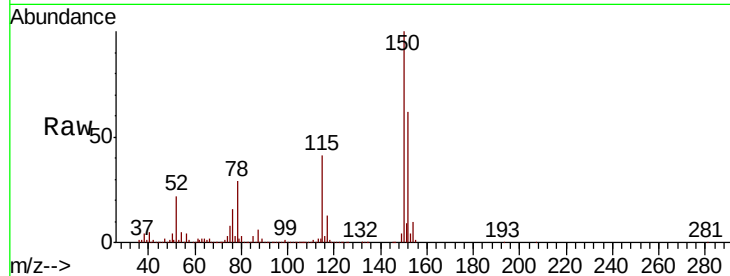
Tgt Ion:152 Resp: 448390

Ion Ratio Lower Upper

152 100

115 65.5 30.0 90.1

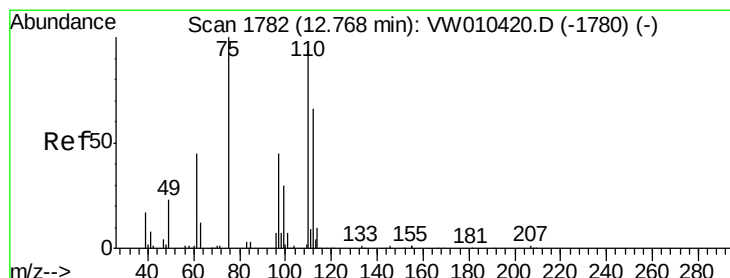
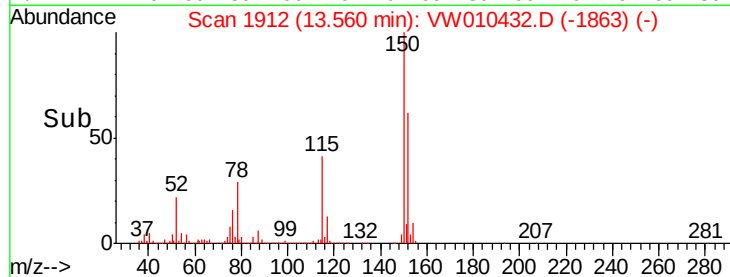
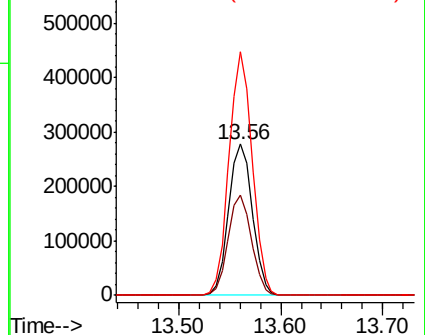
150 156.6 0.0 350.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 56.183 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW010432.D

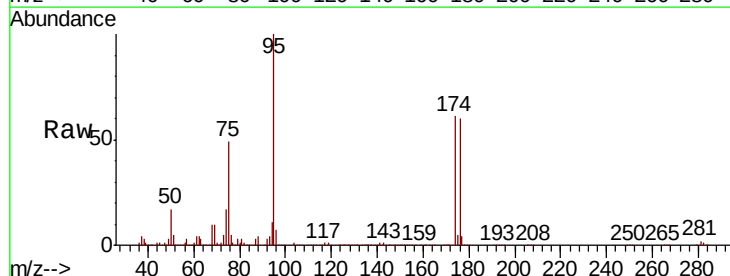
Acq: 18 May 2019 01:52

Tgt Ion: 75 Resp: 269759

Ion Ratio Lower Upper

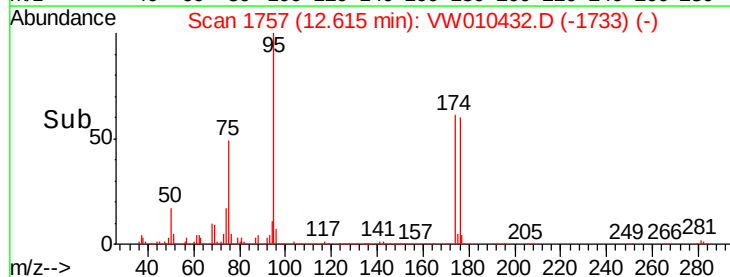
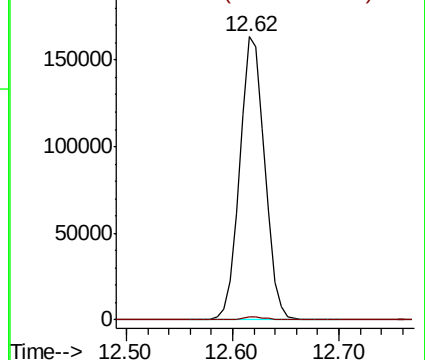
75 100

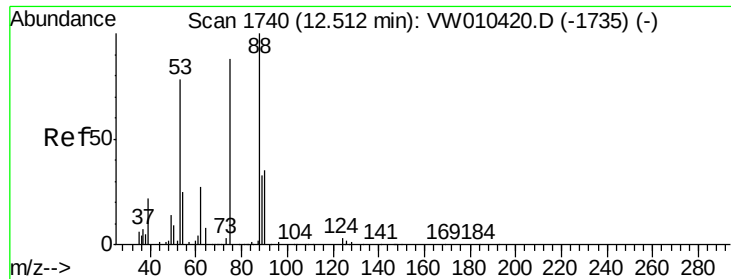
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#81

trans-1,4-Dichloro-2-butene

Concen: 110.867 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW010432.D

Acq: 18 May 2019 01:52

Instrument :

MSVOA\_W

ClientSampleId :

FEBH-02

Tgt Ion: 75 Resp: 269759

Ion Ratio Lower Upper

75 100

53 0.2 70.7 106.1#

89 0.0 38.6 58.0#

