

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF041819\  
 Data File : VF062210.D  
 Acq On : 18 Apr 2019 17:40  
 Operator : FY/SY  
 Sample : K2407-10  
 Misc : 5.93g/5mL/MSVOA F/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 TP-17-S2

Quant Time: Apr 19 02:32:35 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82F041719S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Apr 18 07:43:02 2019  
 Response via : Initial Calibration

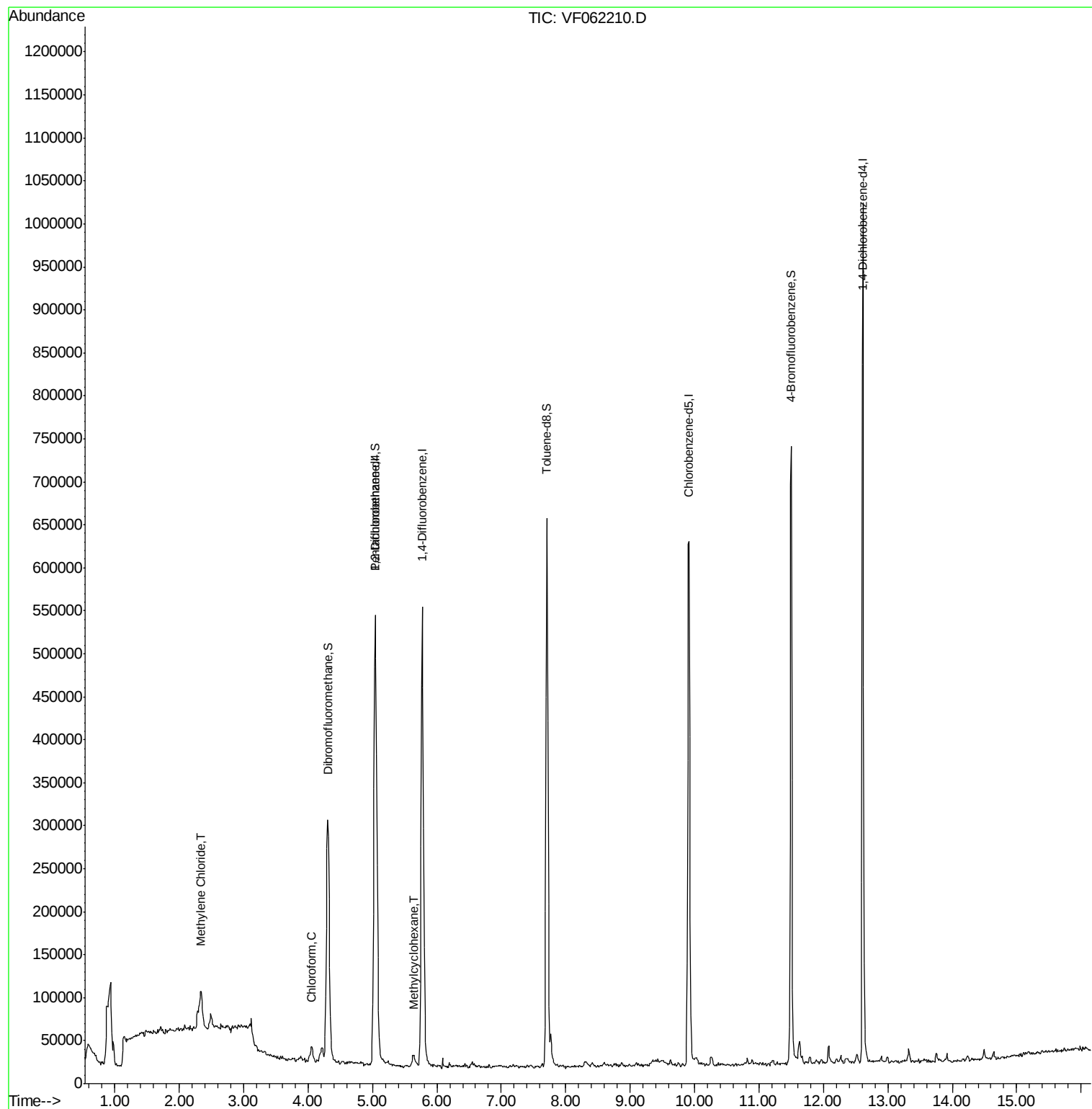
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 1) Pentafluorobenzene       | 5.05  | 168  | 423387   | 50.00 | ug/l    | 0.02     |
| 34) 1,4-Difluorobenzene     | 5.77  | 114  | 635748   | 50.00 | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 9.91  | 117  | 489920   | 50.00 | ug/l    | 0.02     |
| 72) 1,4-Dichlorobenzene-d4  | 12.61 | 152  | 274620   | 50.00 | ug/l    | 0.00     |
| System Monitoring Compounds |       |      |          |       |         |          |
| 33) 1,2-Dichloroethane-d4   | 5.03  | 65   | 215470   | 55.50 | ug/l    | 0.02     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 111.00% |          |
| 35) Dibromofluoromethane    | 4.30  | 113  | 278248   | 50.03 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 100.06% |          |
| 50) Toluene-d8              | 7.71  | 98   | 595832   | 42.33 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 84.66%  |          |
| 62) 4-Bromofluorobenzene    | 11.49 | 95   | 281158   | 51.92 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 103.84% |          |
| Target Compounds            |       |      |          |       |         |          |
| 20) Methylene Chloride      | 2.32  | 84   | 36227    | 1.929 | ug/l    | 93       |
| 30) Chloroform              | 4.06  | 83   | 17826    | 1.915 | ug/l    | 90       |
| 39) Methylcyclohexane       | 5.65  | 83   | 10799    | 1.183 | ug/l    | 84       |

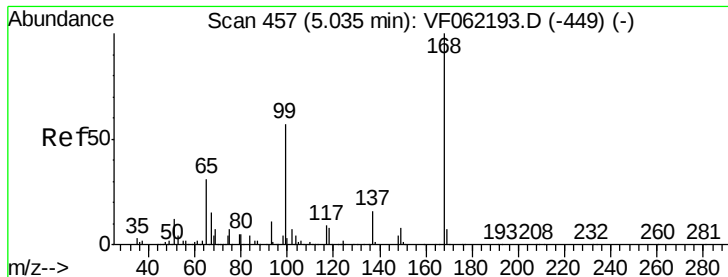
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF041819\  
Data File : VF062210.D  
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MSVOA\_F  
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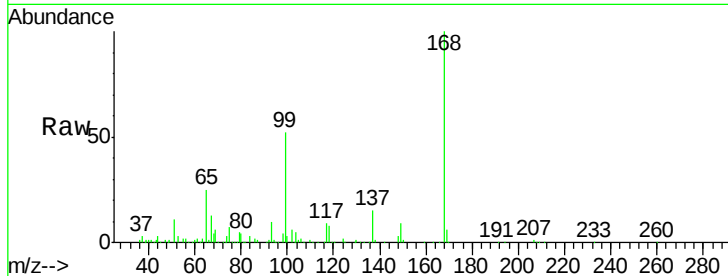


#1

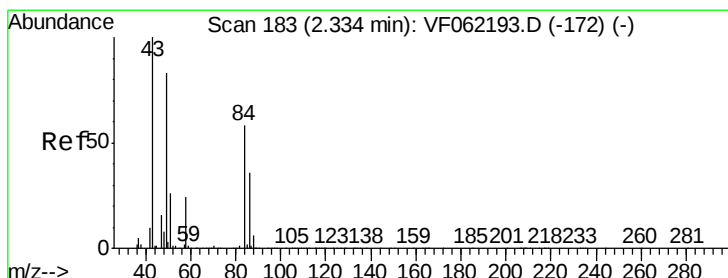
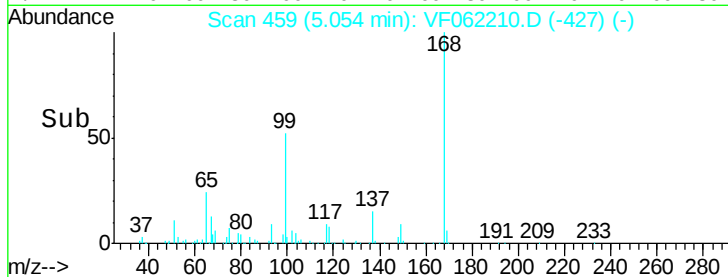
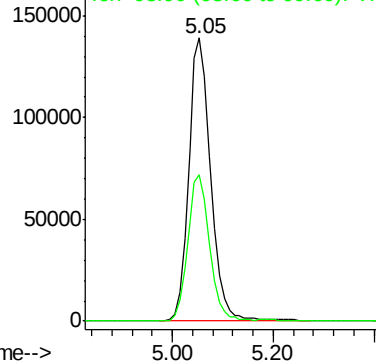
Pentafluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.05 min Scan# 459  
 Delta R.T. 0.02 min  
 Lab File: VF062210.D  
 Acq: 18 Apr 2019 17:40

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 TP-17-S2

Tot Ion:168 Resp: 423387  
 Ion Ratio Lower Upper  
 168 100  
 99 51.7 45.5 68.3



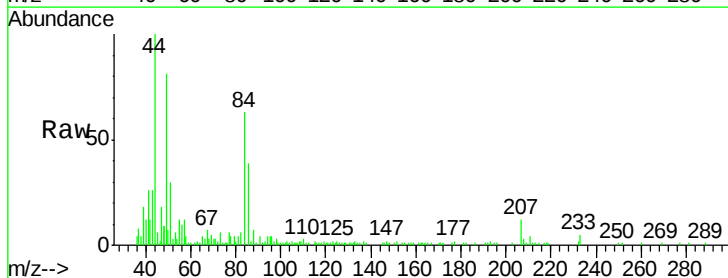
Abundance Ion 167.90 (167.60 to 168.60): VF0  
 Ion 98.90 (98.60 to 99.60): VF0



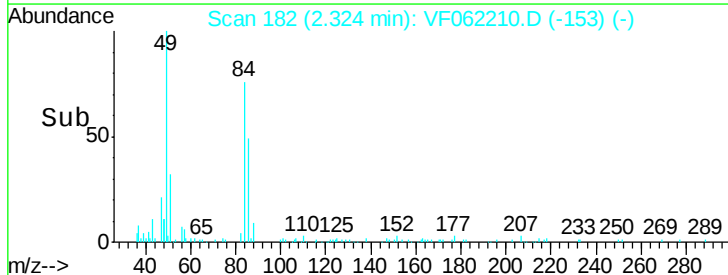
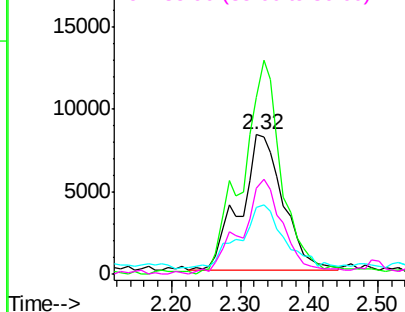
#20

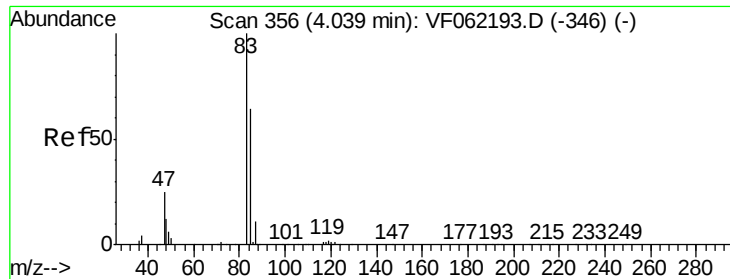
Methylene Chloride  
 Concen: 1.929 ug/l  
 RT: 2.32 min Scan# 182  
 Delta R.T. -0.01 min  
 Lab File: VF062210.D  
 Acq: 18 Apr 2019 17:40

Tgt Ion: 84 Resp: 36227  
 Ion Ratio Lower Upper  
 84 100  
 49 129.2 114.0 171.0  
 51 44.6 37.0 55.4  
 86 63.5 49.8 74.8



Abundance Ion 83.90 (83.60 to 84.60): VF0  
 Ion 48.90 (48.60 to 49.60): VF0  
 Ion 50.90 (50.60 to 51.60): VF0  
 Ion 85.90 (85.60 to 86.60): VF0





#30

Chloroform

Concen: 1.915 ug/l

RT: 4.06 min Scan# 358

Delta R.T. 0.02 min

Lab File: VF062210.D

Acq: 18 Apr 2019 17:40

Instrument :

MSVOA\_F

ClientSampleId :

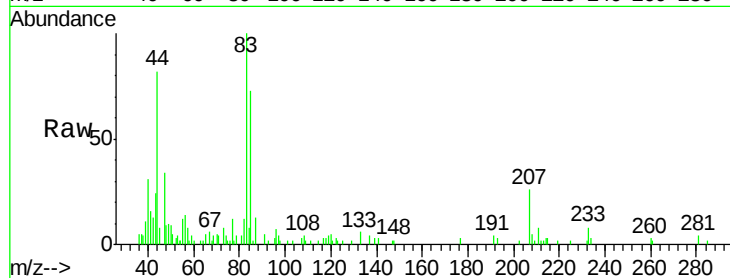
TP-17-S2

Tot Ion: 83 Resp: 17826

Ion Ratio Lower Upper

83 100

85 72.7 51.8 77.8



Abundance Ion 82.90 (82.60 to 83.60): VF0

Ion 84.90 (84.60 to 85.60): VF0

4.06

6000

5000

4000

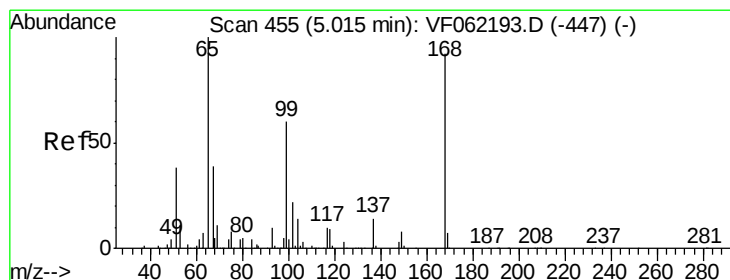
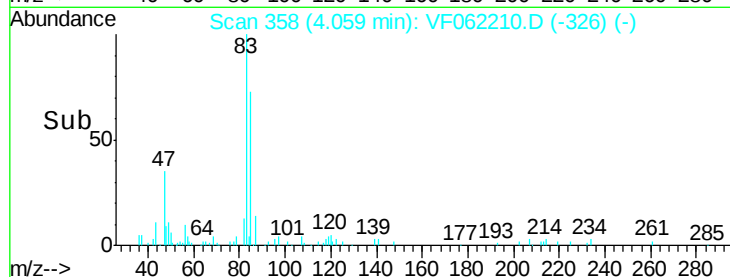
3000

2000

1000

0

Time-->



#33

1,2-Dichloroethane-d4

Concen: 55.502 ug/l

RT: 5.03 min Scan# 457

Delta R.T. 0.02 min

Lab File: VF062210.D

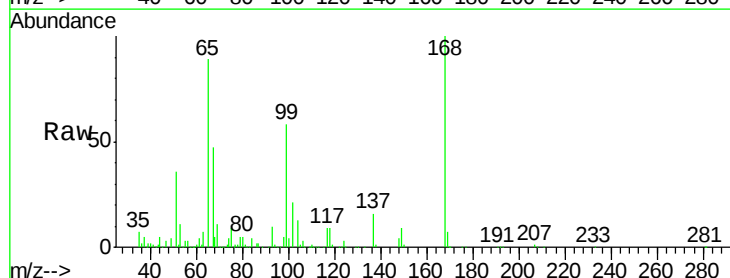
Acq: 18 Apr 2019 17:40

Tgt Ion: 65 Resp: 215470

Ion Ratio Lower Upper

65 100

67 52.0 0.0 109.4



Abundance Ion 64.90 (64.60 to 65.60): VF0

Ion 66.90 (66.60 to 67.60): VF0

5.03

80000

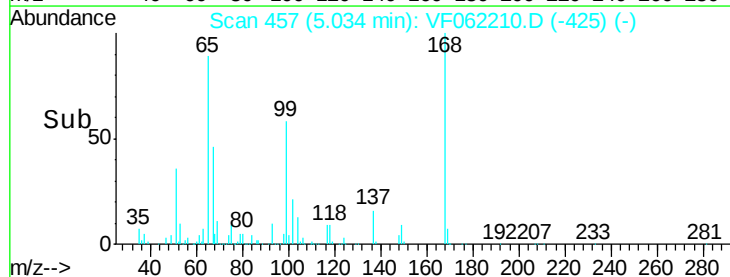
60000

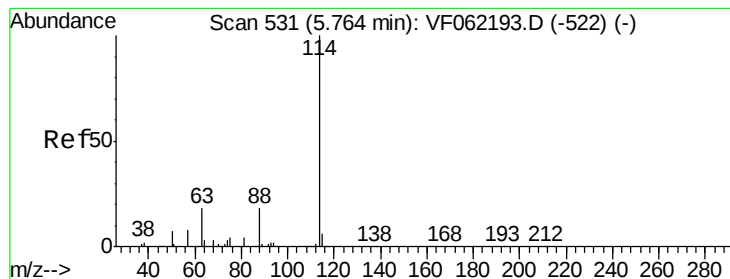
40000

20000

0

Time-->





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.77 min Scan# 532

Delta R.T. 0.01 min

Lab File: VF062210.D

Acq: 18 Apr 2019 17:40

Instrument :

MSVOA\_F

ClientSampleId :

TP-17-S2

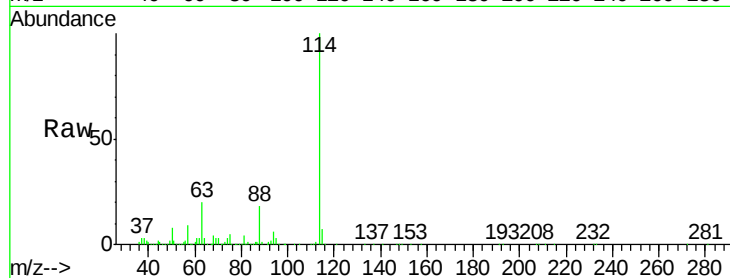
Tot Ion:114 Resp: 635748

Ion Ratio Lower Upper

114 100

63 20.0 0.0 36.6

88 18.2 0.0 35.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 87.90 (87.60 to 88.60): VF0

300000

250000

200000

150000

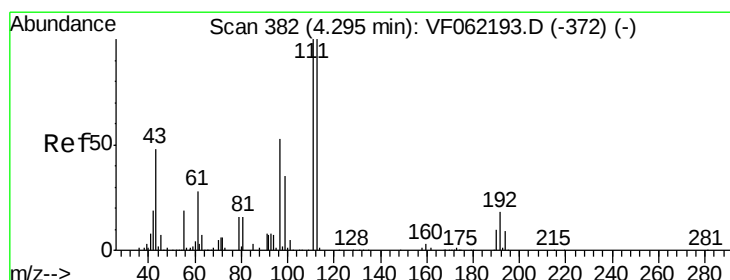
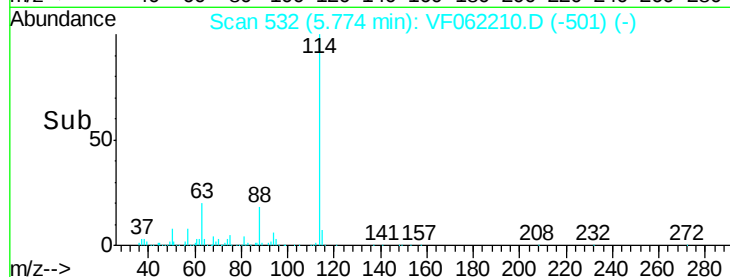
100000

50000

0

5.60 5.80 6.00

Time-->



#35

Dibromofluoromethane

Concen: 50.035 ug/l

RT: 4.30 min Scan# 383

Delta R.T. 0.01 min

Lab File: VF062210.D

Acq: 18 Apr 2019 17:40

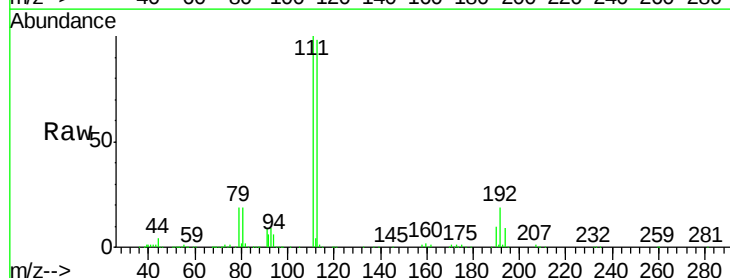
Tgt Ion:113 Resp: 278248

Ion Ratio Lower Upper

113 100

111 102.5 81.1 121.7

192 19.6 14.7 22.1



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

120000

100000

80000

60000

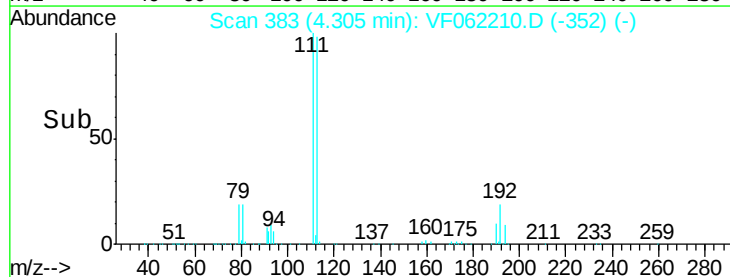
40000

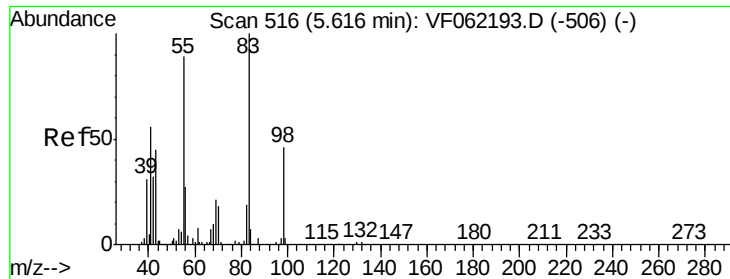
20000

0

4.20 4.40 4.60

Time-->

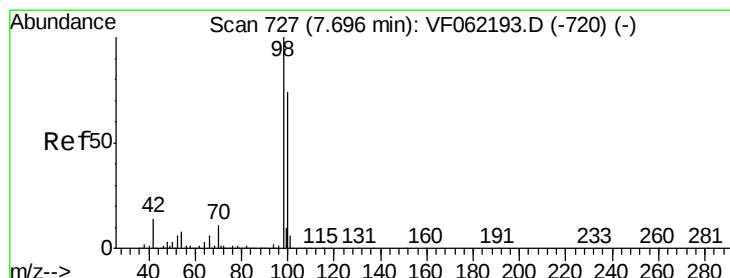
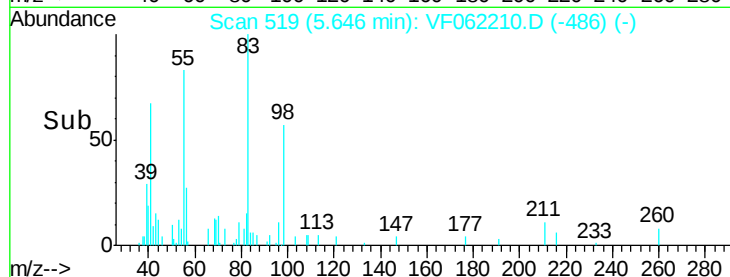
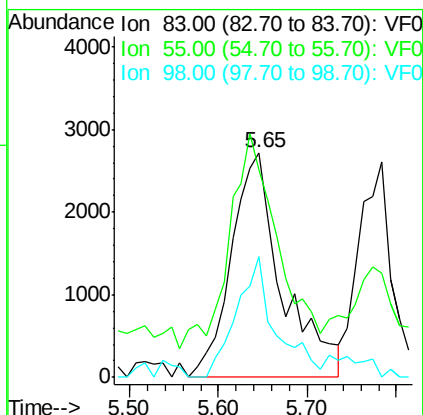
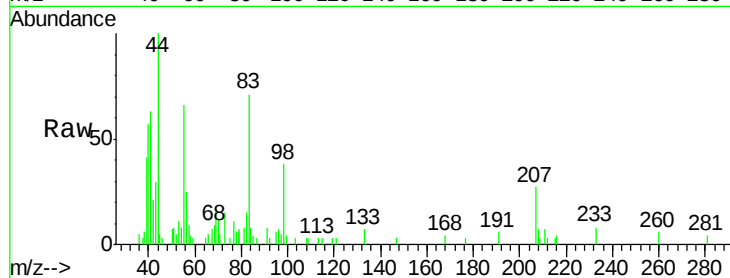




#39  
Methvlcvclohexane  
Concen: 1.183 ug/l  
RT: 5.65 min Scan# 519  
Delta R.T. 0.03 min  
Lab File: VF062210.D  
Acq: 18 Apr 2019 17:40

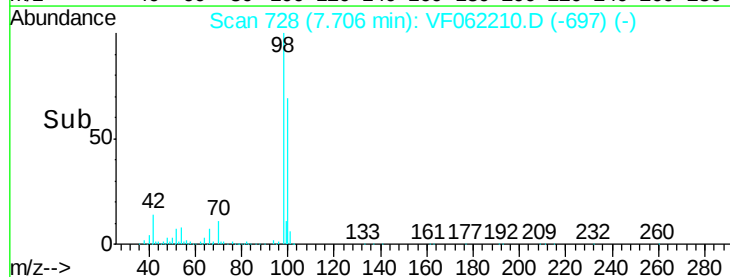
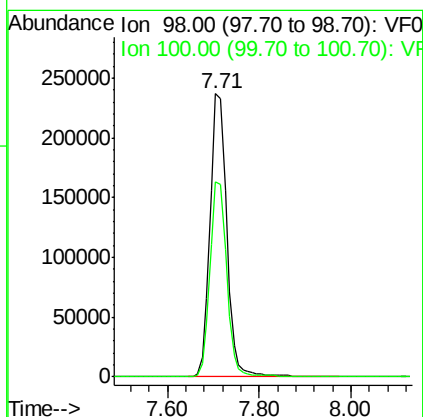
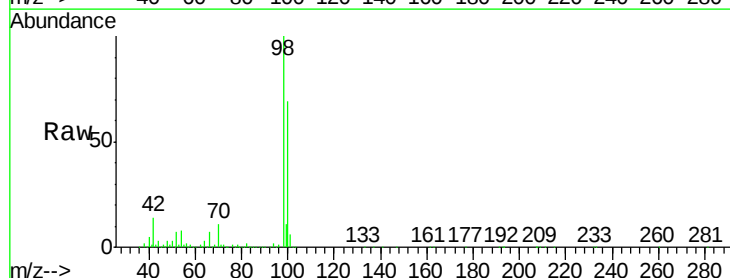
Instrument :  
MSVOA\_F  
ClientSampleId :  
TP-17-S2

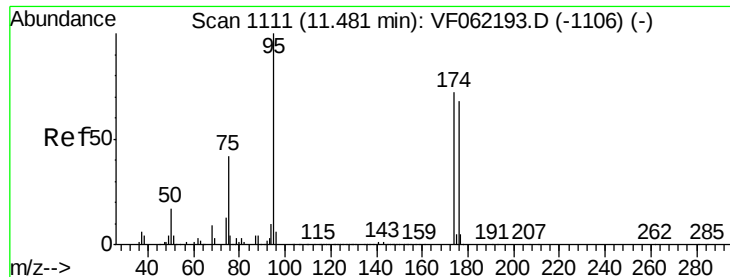
Tot Ion: 83 Resp: 10799  
Ion Ratio Lower Upper  
83 100  
55 71.1 71.0 106.6  
98 53.7 36.7 55.1



#50  
Toluene-d8  
Concen: 42.326 ug/l  
RT: 7.71 min Scan# 728  
Delta R.T. 0.01 min  
Lab File: VF062210.D  
Acq: 18 Apr 2019 17:40

Tgt Ion: 98 Resp: 595832  
Ion Ratio Lower Upper  
98 100  
100 68.8 56.2 84.2





#62

4-Bromofluorobenzene

Concen: 51.918 ug/l

RT: 11.49 min Scan# 1112

Delta R.T. 0.01 min

Lab File: VF062210.D

Acq: 18 Apr 2019 17:40

Instrument :

MSVOA\_F

ClientSampleId :

TP-17-S2

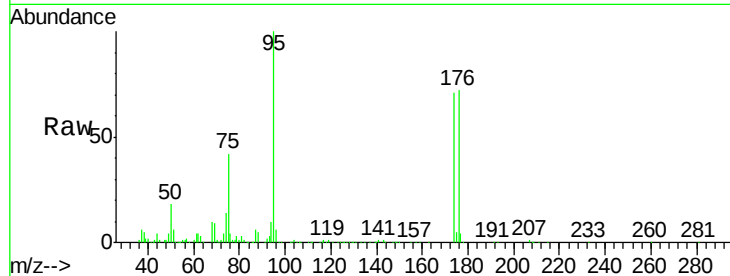
Tot Ion: 95 Resp: 281158

Ion Ratio Lower Upper

95 100

174 83.6 0.0 159.4

176 82.7 0.0 155.4



Abundance Ion 94.90 (94.60 to 95.60): VF0

Ion 173.80 (173.50 to 174.50): VF0

Ion 175.80 (175.50 to 176.50): VF0

11.49

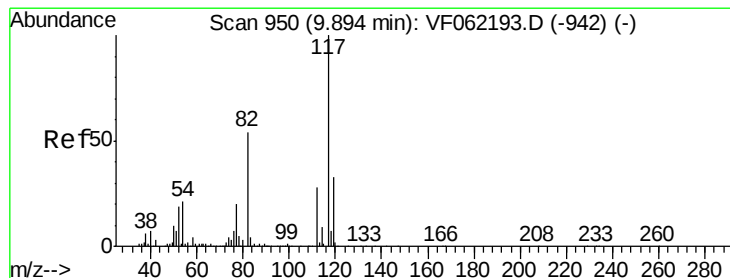
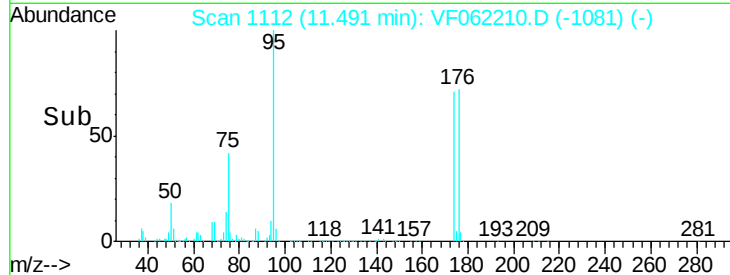
150000

100000

50000

0

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.91 min Scan# 952

Delta R.T. 0.02 min

Lab File: VF062210.D

Acq: 18 Apr 2019 17:40

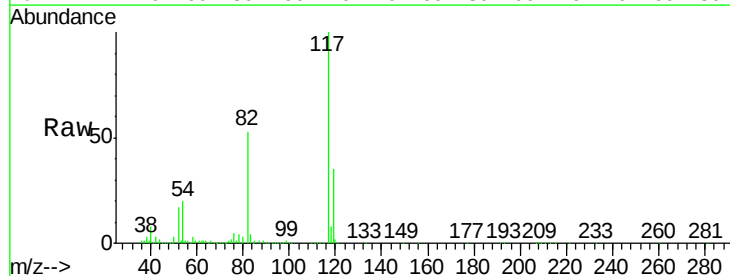
Tgt Ion: 117 Resp: 489920

Ion Ratio Lower Upper

117 100

82 53.2 43.2 64.8

119 34.5 26.2 39.4



Abundance Ion 116.90 (116.60 to 117.60): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 118.90 (118.60 to 119.60): VF0

9.91

250000

200000

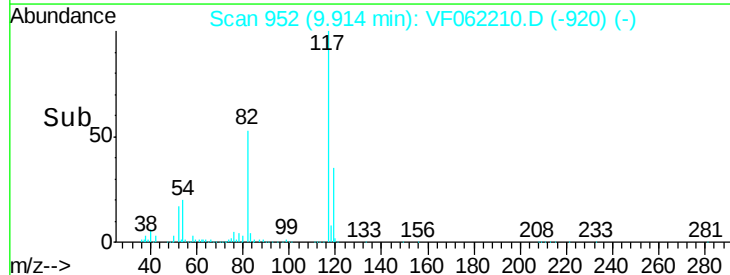
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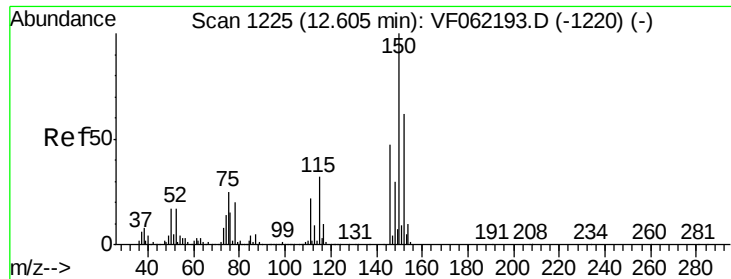
100000

50000

0

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.61 min Scan# 1226

Delta R.T. 0.01 min

Lab File: VF062210.D

Acq: 18 Apr 2019 17:40

Instrument :

MSVOA\_F

ClientSampleId :

TP-17-S2

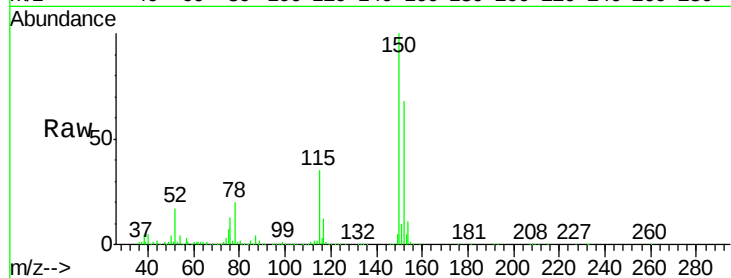
Tot Ion:152 Resp: 274620

Ion Ratio Lower Upper

152 100

115 55.1 27.8 83.3

150 153.1 0.0 341.8



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

