

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD061319\  
 Data File : VD062687.D  
 Acq On : 13 Jun 2019 11:52  
 Operator : VA/AP  
 Sample : VD0613SBL01  
 Misc : 5.00g/5ml/MSVOA D/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0613SBL01

Quant Time: Jun 14 06:55:35 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D060719S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jun 08 00:02:21 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.05  | 168  | 686994   | 50.00 | ug/l  | 0.01     |
| 34) 1,4-Difluorobenzene    | 8.23  | 114  | 909429   | 50.00 | ug/l  | 0.01     |
| 63) Chlorobenzene-d5       | 12.38 | 117  | 722570   | 50.00 | ug/l  | 0.01     |
| 72) 1,4-Dichlorobenzene-d4 | 14.52 | 152  | 400995   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.46  | 65   | 528595   | 53.32 | ug/l    | 0.01     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 106.64% |          |
| 35) Dibromofluoromethane    | 6.93  | 113  | 529758   | 55.23 | ug/l    | 0.01     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 110.46% |          |
| 50) Toluene-d8              | 10.42 | 98   | 1208427  | 59.89 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 119.78% |          |
| 62) 4-Bromofluorobenzene    | 13.56 | 95   | 541930   | 57.57 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 115.14% |          |

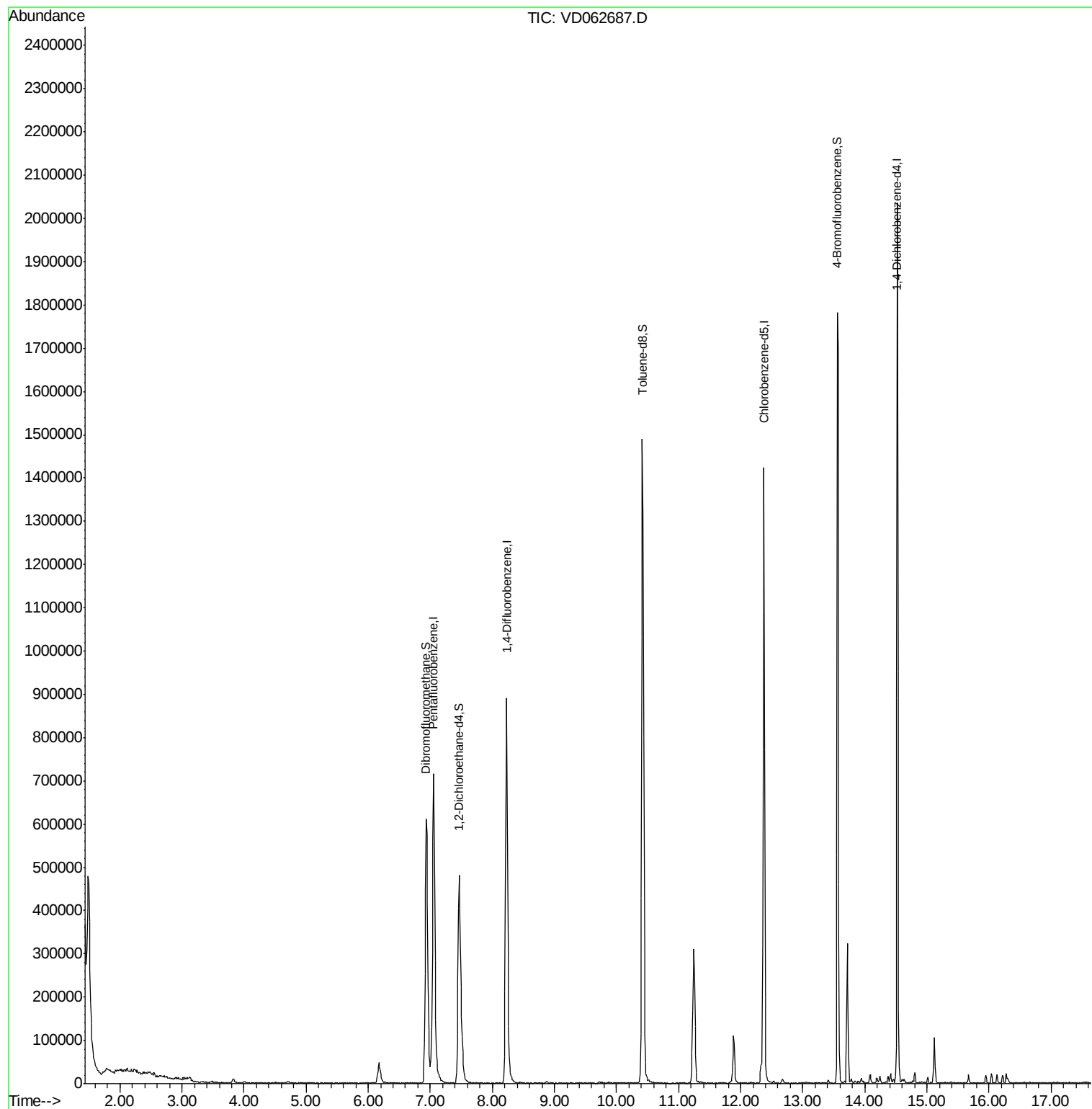
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

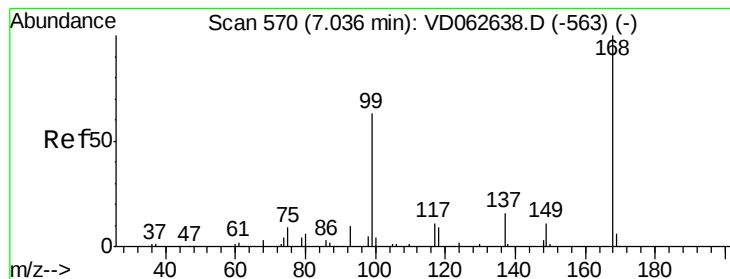
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Sat Jun 08 00:02:21 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.01 min

Lab File: VD062687.D

Acq: 13 Jun 2019 11:52

Instrument :

MSVOA\_D

ClientSampleId :

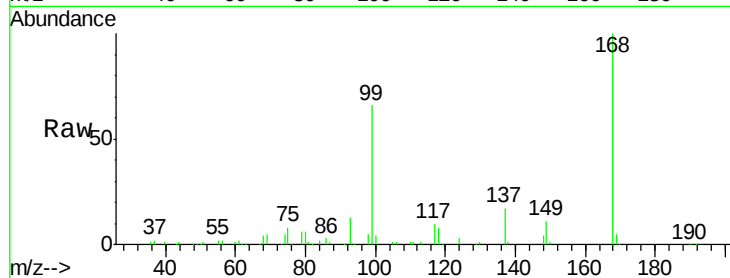
VD0613SBL01

Tot Ion:168 Resp: 686994

Ion Ratio Lower Upper

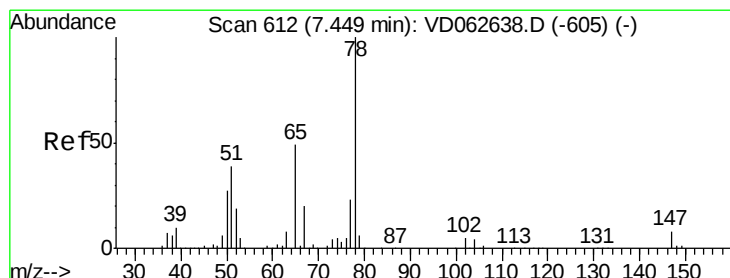
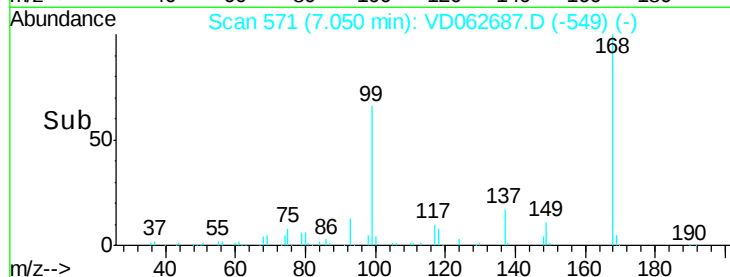
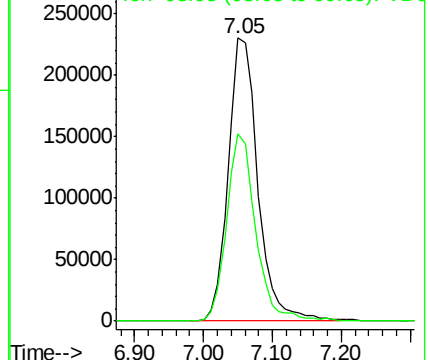
168 100

99 66.3 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#33

1,2-Dichloroethane-d4

Concen: 53.322 ug/l

RT: 7.46 min Scan# 613

Delta R.T. 0.01 min

Lab File: VD062687.D

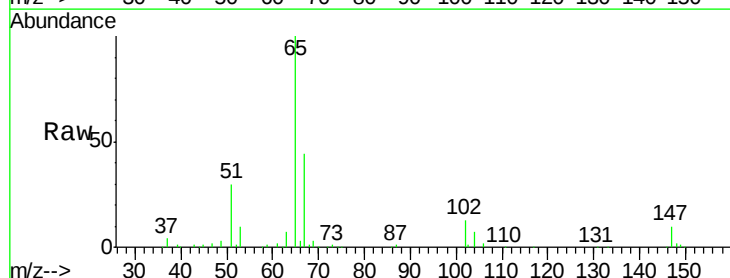
Acq: 13 Jun 2019 11:52

Tgt Ion: 65 Resp: 528595

Ion Ratio Lower Upper

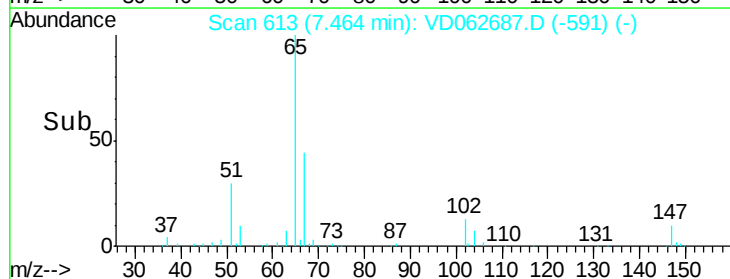
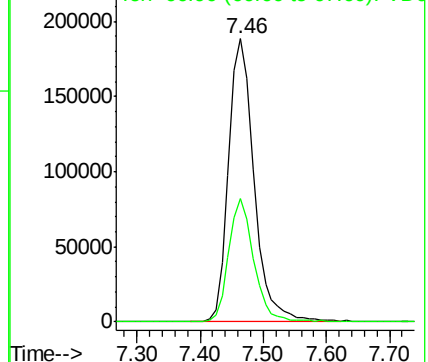
65 100

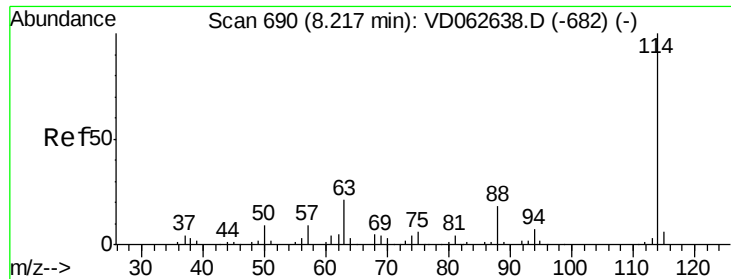
67 43.6 0.0 81.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.23 min Scan# 691

Delta R.T. 0.01 min

Lab File: VD062687.D

Acq: 13 Jun 2019 11:52

Instrument :

MSVOA\_D

ClientSampleId :

VD0613SBL01

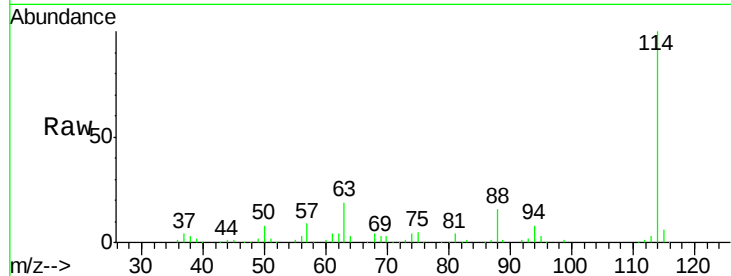
Tot Ion:114 Resp: 909429

Ion Ratio Lower Upper

114 100

63 18.6 0.0 42.4

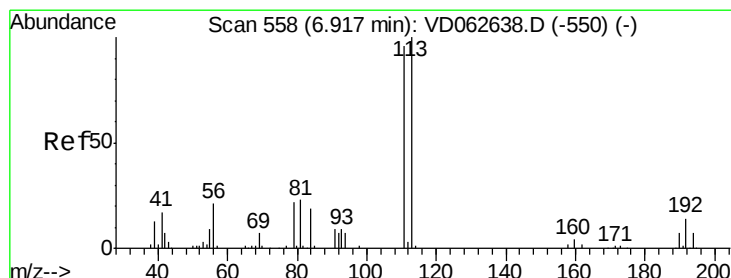
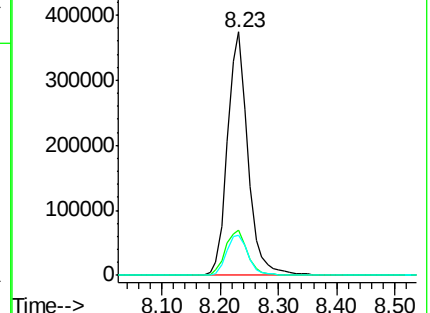
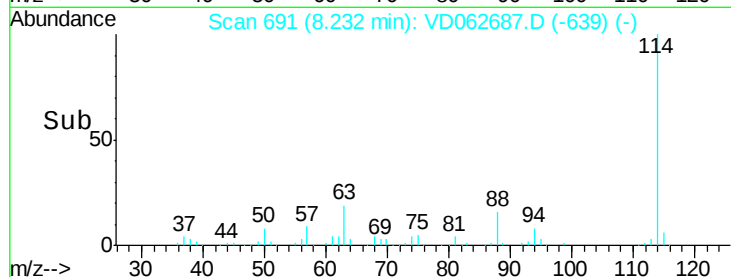
88 16.3 0.0 36.8



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC



#35

Dibromofluoromethane

Concen: 55.234 ug/l

RT: 6.93 min Scan# 559

Delta R.T. 0.01 min

Lab File: VD062687.D

Acq: 13 Jun 2019 11:52

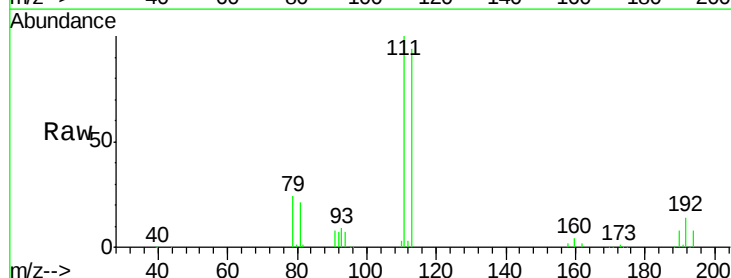
Tgt Ion:113 Resp: 529758

Ion Ratio Lower Upper

113 100

111 106.6 76.4 114.6

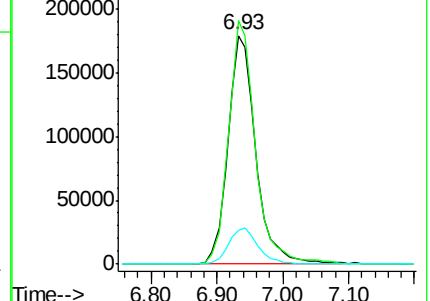
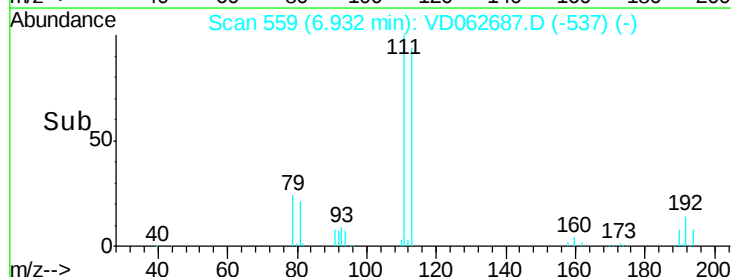
192 15.0 11.4 17.0

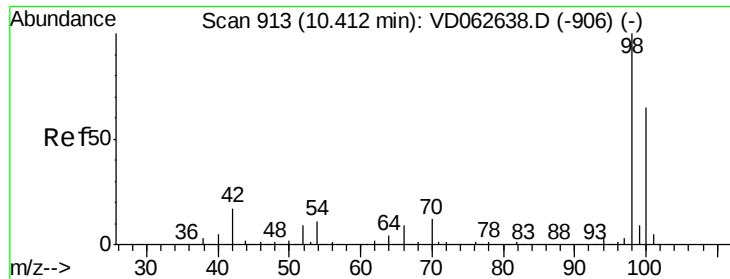


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

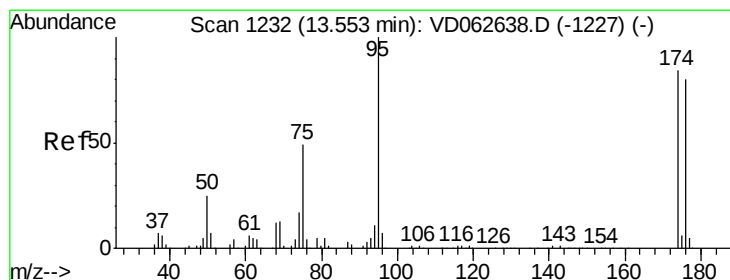
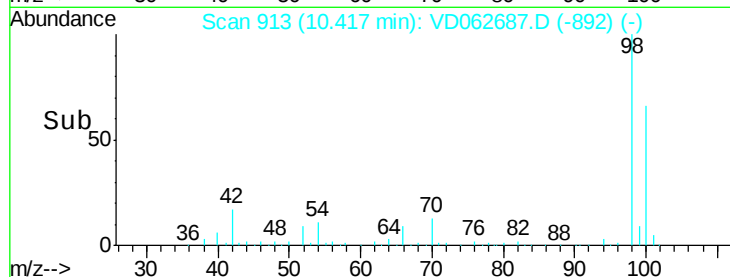
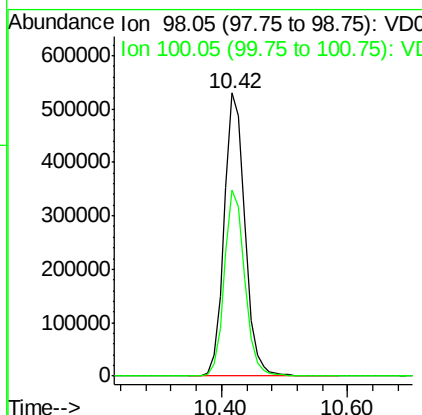
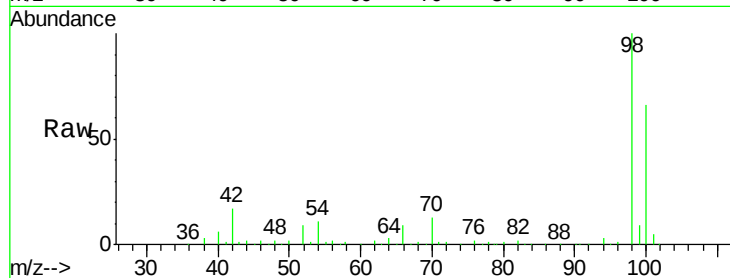




#50  
Toluene-d8  
Concen: 59.893 ug/l  
RT: 10.42 min Scan# 913  
Delta R.T. 0.00 min  
Lab File: VD062687.D  
Acq: 13 Jun 2019 11:52

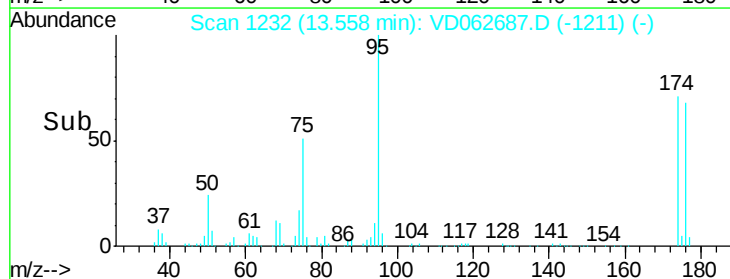
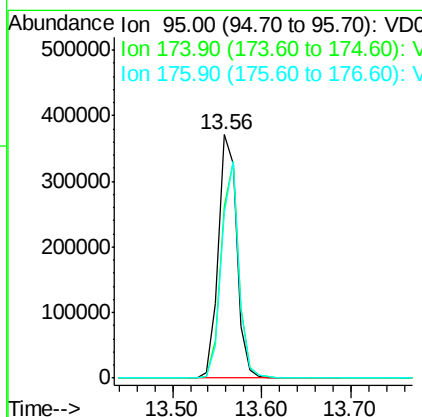
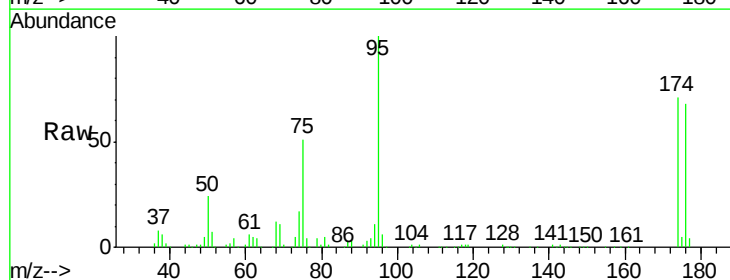
Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0613SBL01

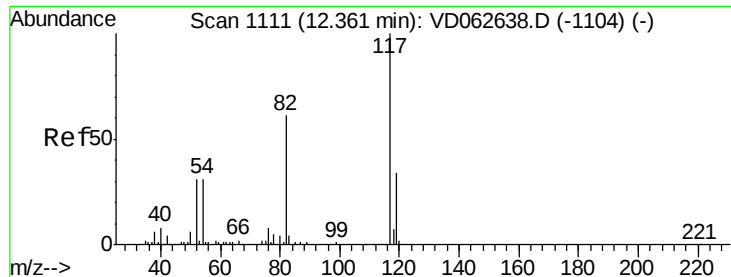
Tot Ion: 98 Resp: 1208427  
Ion Ratio Lower Upper  
98 100  
100 65.7 52.1 78.1



#62  
4-Bromofluorobenzene  
Concen: 57.573 ug/l  
RT: 13.56 min Scan# 1232  
Delta R.T. 0.00 min  
Lab File: VD062687.D  
Acq: 13 Jun 2019 11:52

Tgt Ion: 95 Resp: 541930  
Ion Ratio Lower Upper  
95 100  
174 70.6 0.0 167.0  
176 67.9 0.0 159.2

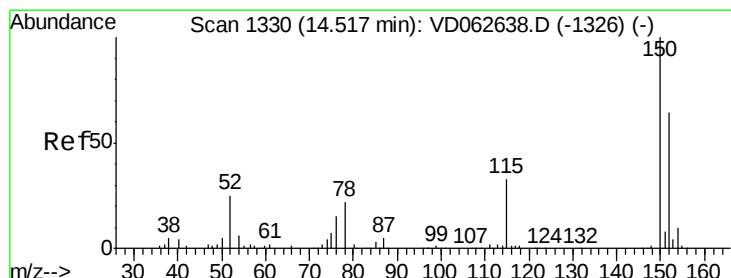
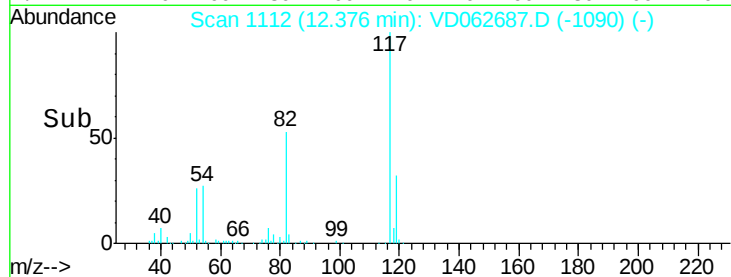
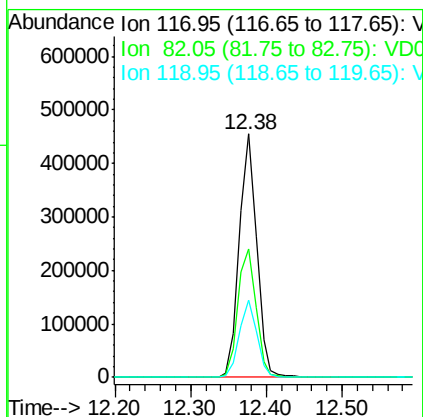
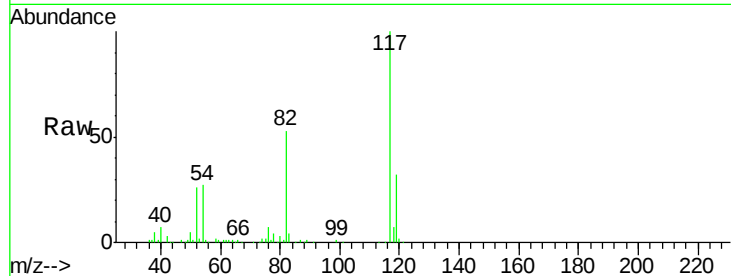




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 12.38 min Scan# 1112  
Delta R.T. 0.01 min  
Lab File: VD062687.D  
Acq: 13 Jun 2019 11:52

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0613SBL01

Tot Ion:117 Resp: 722570  
Ion Ratio Lower Upper  
117 100  
82 53.0 48.7 73.1  
119 31.7 27.0 40.6



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 14.52 min Scan# 1330  
Delta R.T. 0.00 min  
Lab File: VD062687.D  
Acq: 13 Jun 2019 11:52

Tgt Ion:152 Resp: 400995  
Ion Ratio Lower Upper  
152 100  
115 59.4 30.1 90.5  
150 151.9 0.0 314.0

