

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD031219\  
 Data File : VD061027.D  
 Acq On : 12 Mar 2019 16:37  
 Operator : VA/AP  
 Sample : K1824-05RE  
 Misc : 5.10g/5ml/MSVOA D/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 TP-26

Quant Time: Mar 13 04:08:51 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D030719S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 08 02:35:39 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.04  | 168  | 624564   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.21  | 114  | 1119601  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 12.37 | 117  | 913288   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 14.51 | 152  | 416171   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.45  | 65   | 264237   | 50.83 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 101.66% |          |
| 35) Dibromofluoromethane    | 6.92  | 113  | 409955   | 49.34 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 98.68%  |          |
| 50) Toluene-d8              | 10.41 | 98   | 925141   | 44.34 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 88.68%  |          |
| 62) 4-Bromofluorobenzene    | 13.55 | 95   | 371198   | 45.85 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 91.70%  |          |

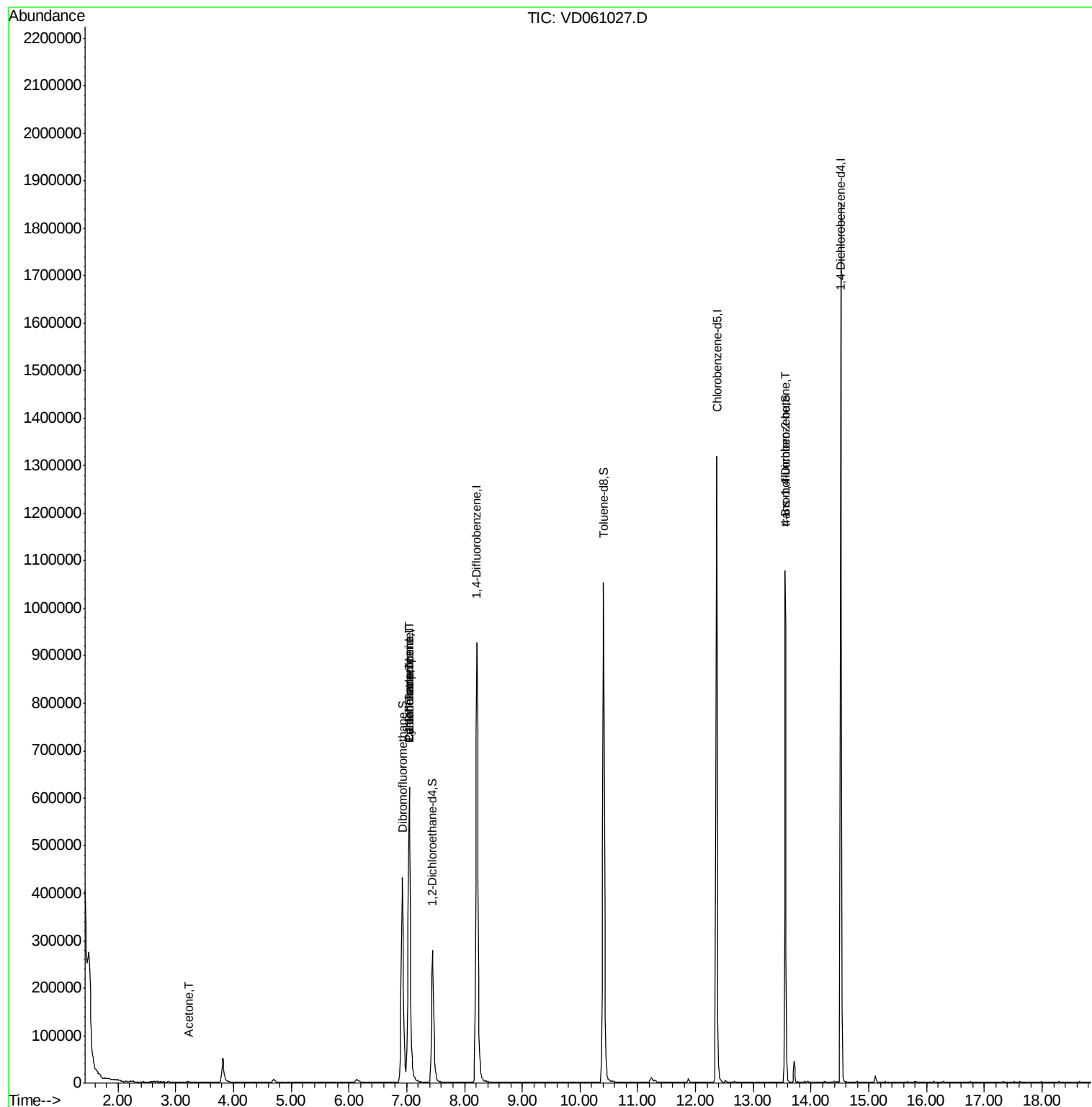
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 2.12  | 94   | 183      | Below Cal | #      | 8      |
| 16) Acetone                    | 3.23  | 43   | 2810     | 1.890     | ug/l # | 48     |
| 31) Cyclohexane                | 7.04  | 56   | 11316    | 1.230     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.04  | 75   | 46763    | 4.845     | ug/l # | 45     |
| 38) Carbon Tetrachloride       | 7.04  | 117  | 60420    | 5.684     | ug/l # | 15     |
| 81) trans-1,4-Dichloro-2-buten | 13.55 | 75   | 133681   | 75.731    | ug/l # | 17     |

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

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MSVOA\_D  
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TP-26

Quant Time: Mar 13 04:08:51 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D030719S.M  
Quant Title : SW846 8260  
QLast Update : Fri Mar 08 02:35:39 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 571

Delta R.T. -0.00 min

Lab File: VD061027.D

Acq: 12 Mar 2019 16:37

Instrument :

MSVOA\_D

ClientSampleId :

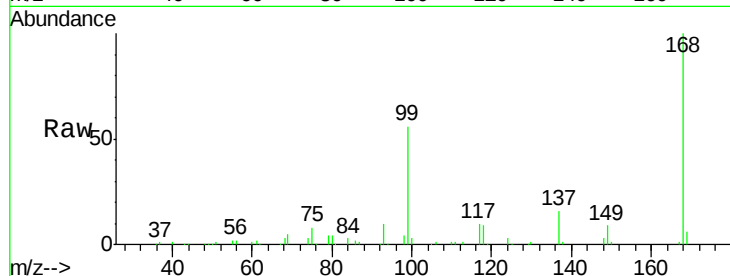
TP-26

Tot Ion:168 Resp: 624564

Ion Ratio Lower Upper

168 100

99 56.2 47.3 70.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.04

250000

200000

150000

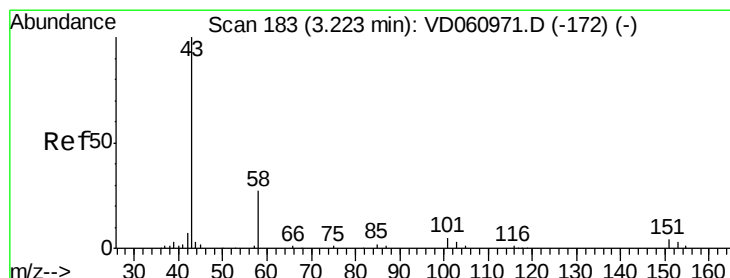
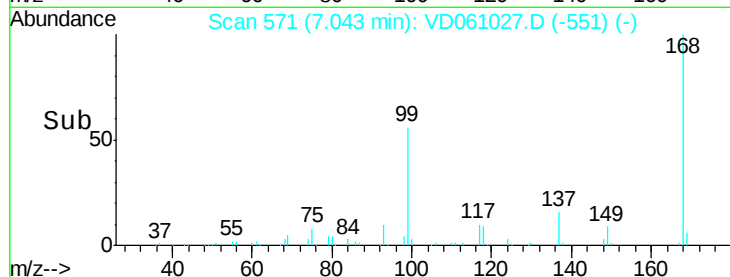
100000

50000

0

6.90 7.00 7.10 7.20

Time-->



#16

Acetone

Concen: 1.890 ug/l

RT: 3.23 min Scan# 184

Delta R.T. 0.01 min

Lab File: VD061027.D

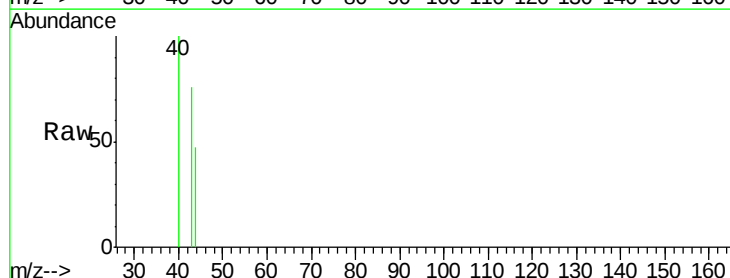
Acq: 12 Mar 2019 16:37

Tgt Ion: 43 Resp: 2810

Ion Ratio Lower Upper

43 100

58 0.0 21.6 32.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

3.23

1200

1000

800

600

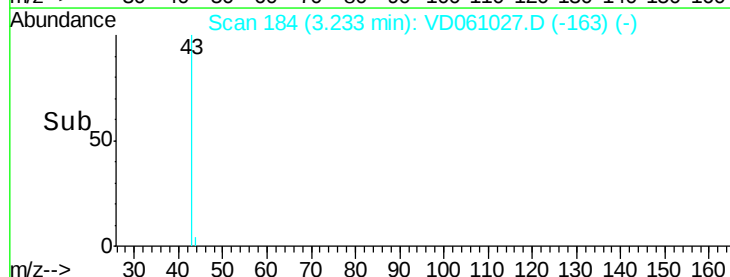
400

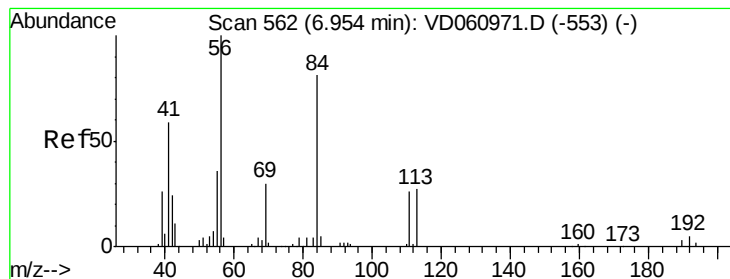
200

0

3.15 3.20 3.25 3.30

Time-->





#31

Cvclohexane

Concen: 1.230 ug/l

RT: 7.04 min Scan# 571

Delta R.T. 0.09 min

Lab File: VD061027.D

Acq: 12 Mar 2019 16:37

Instrument :

MSVOA\_D

ClientSampleId :

TP-26

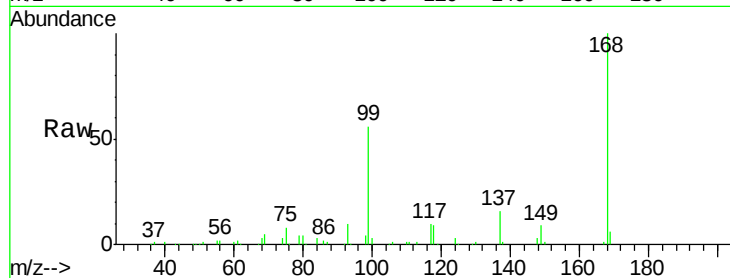
Tot Ion: 56 Resp: 11316

Ion Ratio Lower Upper

56 100

69 285.0 24.0 36.0#

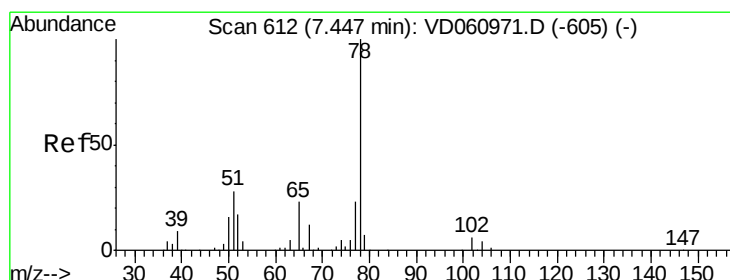
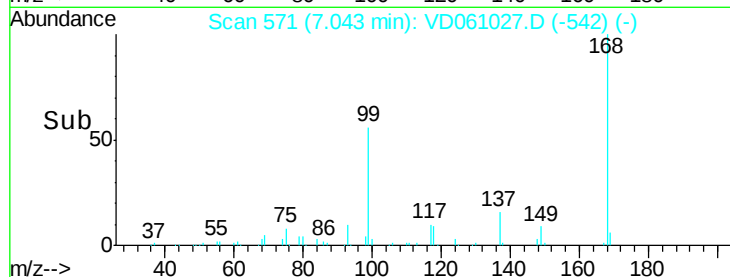
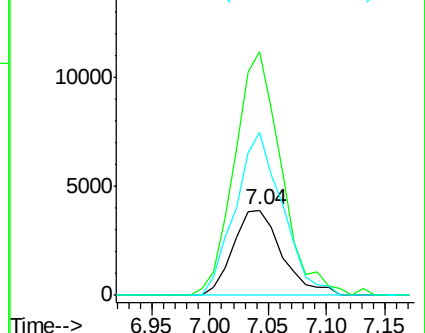
84 191.2 65.8 98.6#



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: N.D. ug/l

RT: 7.45 min Scan# 612

Delta R.T. -0.00 min

Lab File: VD061027.D

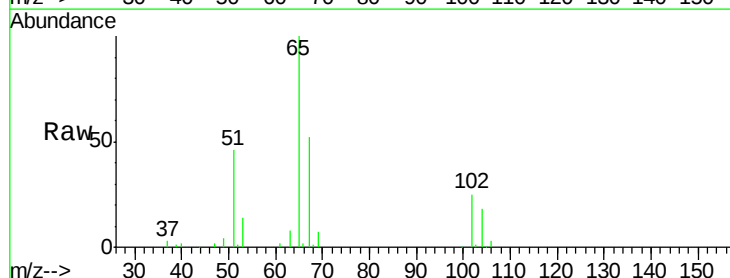
Acq: 12 Mar 2019 16:37

Tgt Ion: 65 Resp: 264237

Ion Ratio Lower Upper

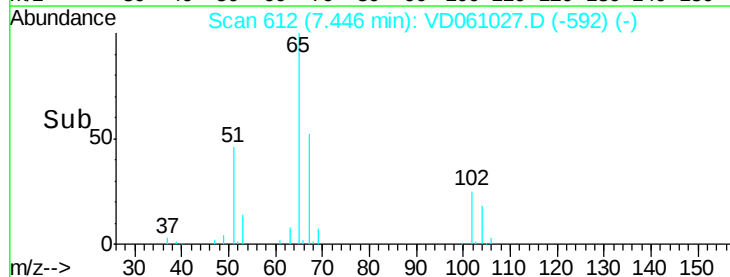
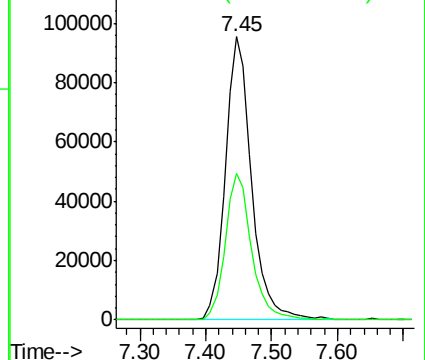
65 100

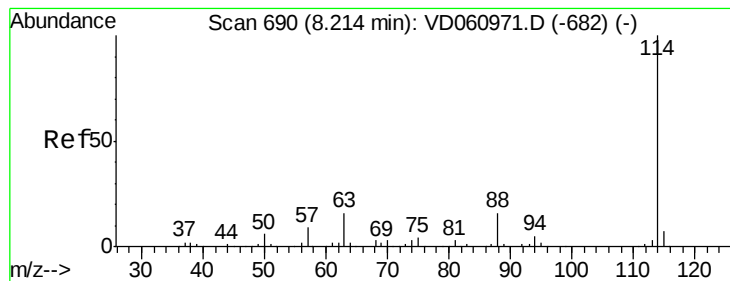
67 51.7 0.0 105.2



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: 8.21 min Scan# 690

Delta R.T. -0.00 min

Lab File: VD061027.D

Acq: 12 Mar 2019 16:37

Instrument :

MSVOA\_D

ClientSampleId :

TP-26

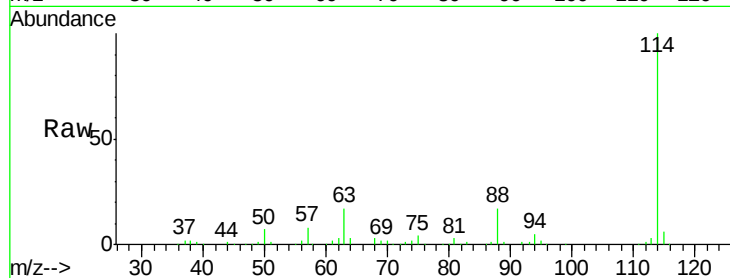
Tot Ion:114 Resp: 1119601

Ion Ratio Lower Upper

114 100

63 16.7 0.0 31.4

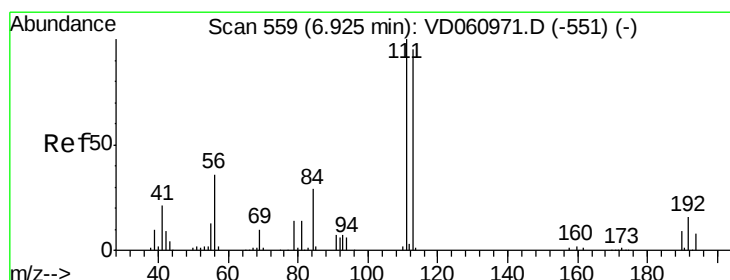
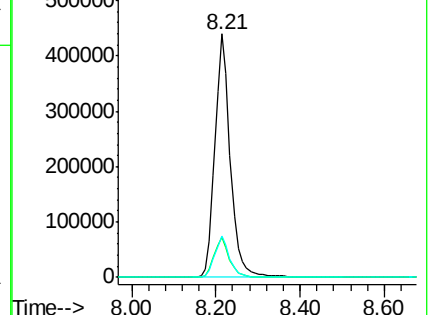
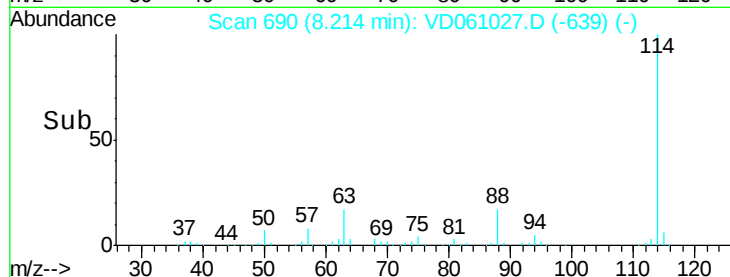
88 17.0 0.0 33.0



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: 50.000 ug/l

RT: 6.92 min Scan# 559

Delta R.T. -0.00 min

Lab File: VD061027.D

Acq: 12 Mar 2019 16:37

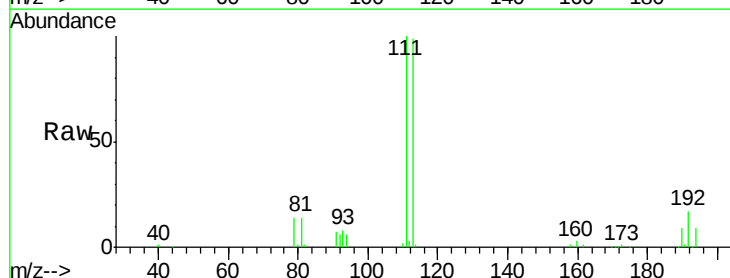
Tgt Ion:113 Resp: 409955

Ion Ratio Lower Upper

113 100

111 100.7 84.2 126.4

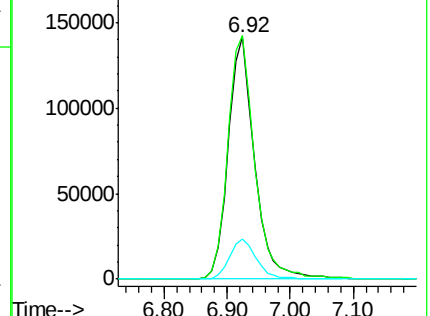
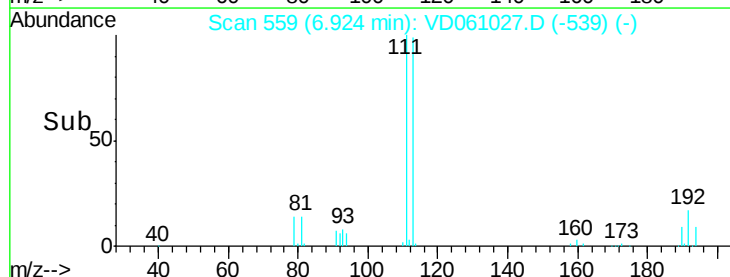
192 16.8 13.1 19.7

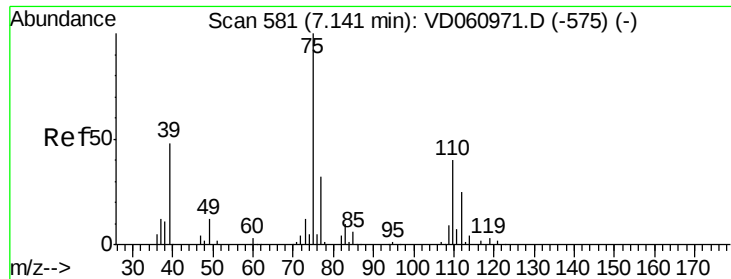


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

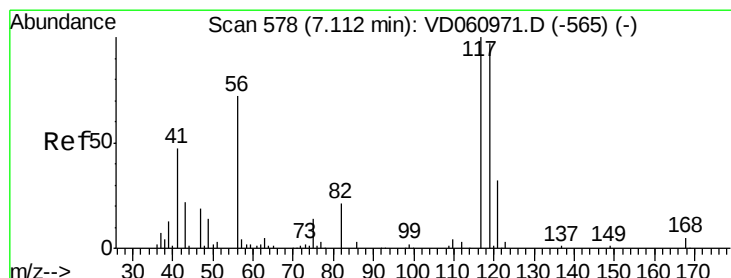
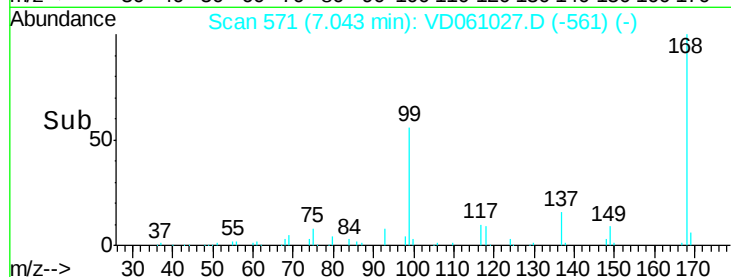
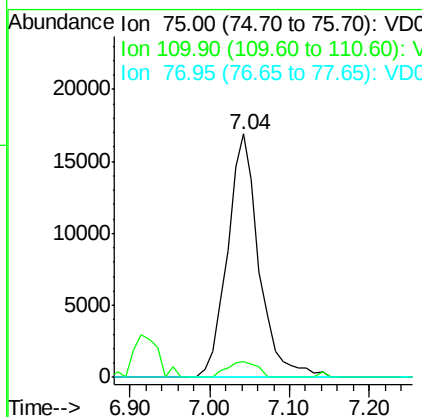
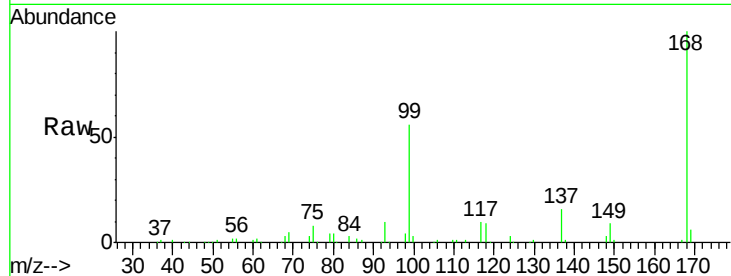




#36  
 1,1-Dichloropropene  
 Concen: 4.845 ug/l  
 RT: 7.04 min Scan# 571  
 Delta R.T. -0.10 min  
 Lab File: VD061027.D  
 Acq: 12 Mar 2019 16:37

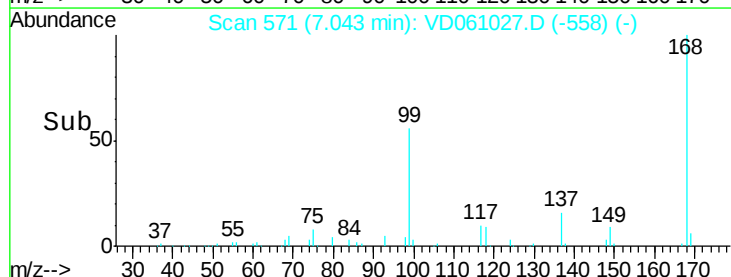
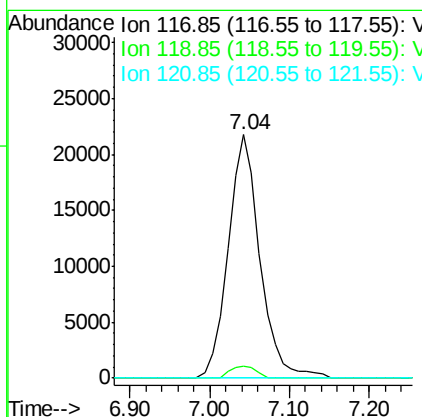
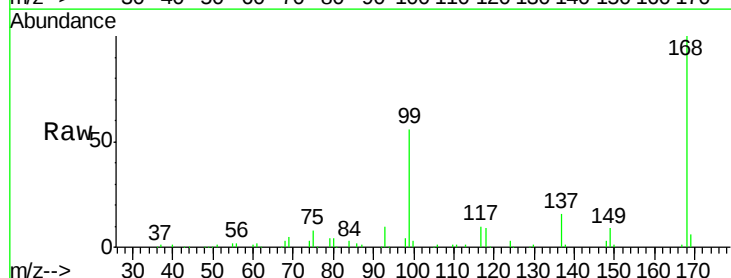
Instrument :  
 MSVOA\_D  
 ClientSampled :  
 TP-26

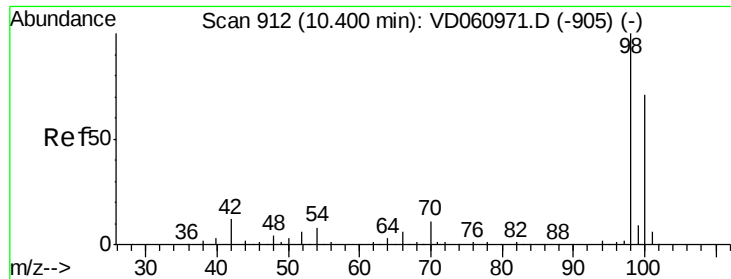
| Tot Ion   | 75    | Resp  | 46763 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 110       | 6.5   | 19.7  | 59.1# |
| 77        | 0.0   | 24.7  | 37.1# |



#38  
 Carbon Tetrachloride  
 Concen: 5.684 ug/l  
 RT: 7.04 min Scan# 571  
 Delta R.T. -0.07 min  
 Lab File: VD061027.D  
 Acq: 12 Mar 2019 16:37

| Tgt Ion   | 117   | Resp  | 60420  |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 119       | 5.0   | 77.8  | 116.8# |
| 121       | 0.0   | 25.3  | 37.9#  |





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.41 min Scan# 913

Delta R.T. 0.01 min

Lab File: VD061027.D

Acq: 12 Mar 2019 16:37

Instrument :

MSVOA\_D

ClientSampleId :

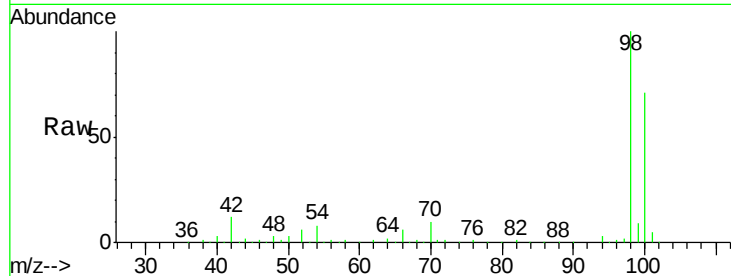
TP-26

Tot Ion: 98 Resp: 925141

Ion Ratio Lower Upper

98 100

100 71.4 57.4 86.2



Abundance Ion 98.05 (97.75 to 98.75): VD060971.D (-905) (-)

Ion 100.05 (99.75 to 100.75): VD060971.D (-905) (-)

10.41

400000

300000

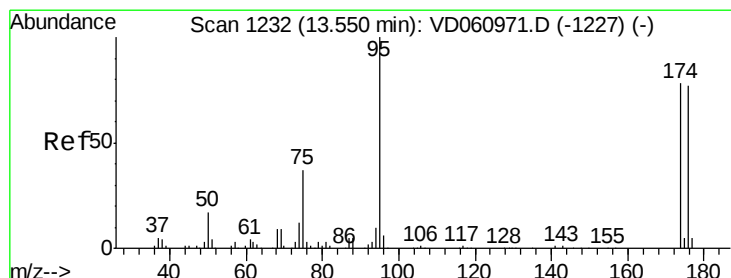
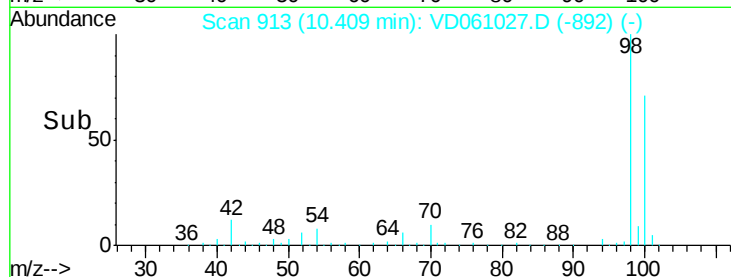
200000

100000

0

10.30 10.40 10.50 10.60

Time-->



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VD061027.D

Acq: 12 Mar 2019 16:37

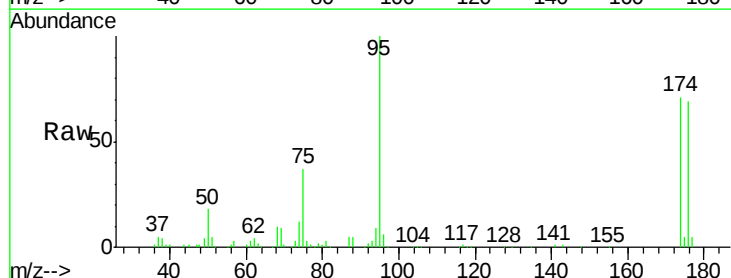
Tgt Ion: 95 Resp: 371198

Ion Ratio Lower Upper

95 100

174 70.6 0.0 155.6

176 69.2 0.0 153.8



Abundance Ion 95.00 (94.70 to 95.70): VD060971.D (-1227) (-)

Ion 173.90 (173.60 to 174.60): VD060971.D (-1227) (-)

Ion 175.90 (175.60 to 176.60): VD060971.D (-1227) (-)

300000

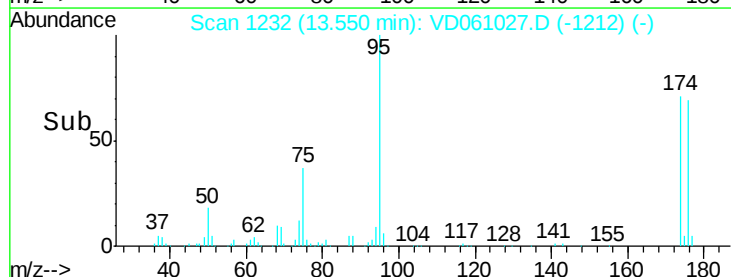
200000

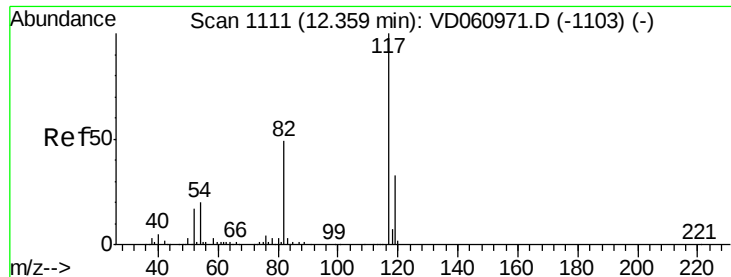
100000

0

13.50 13.60

Time-->

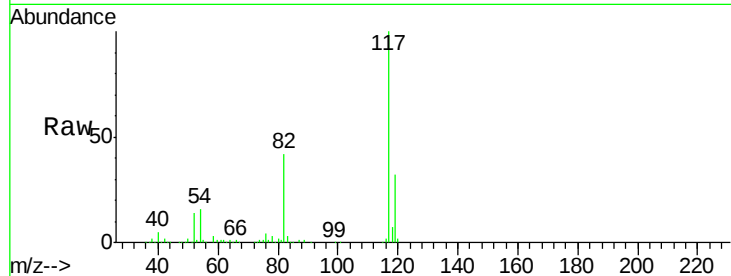




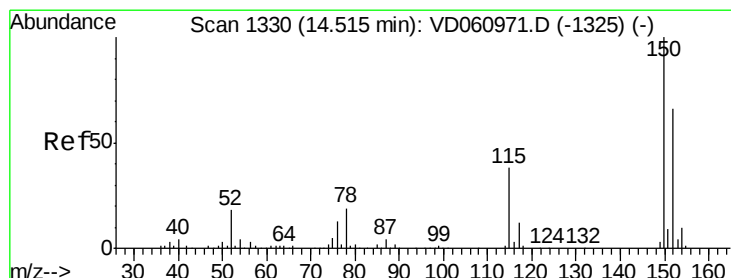
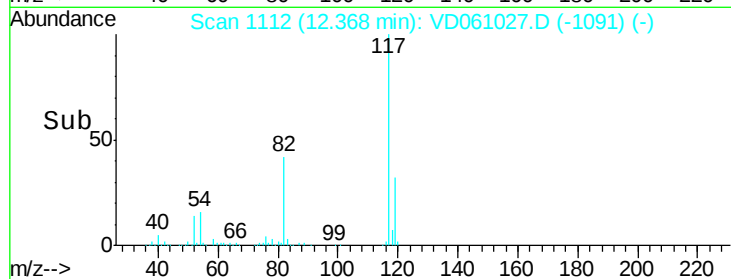
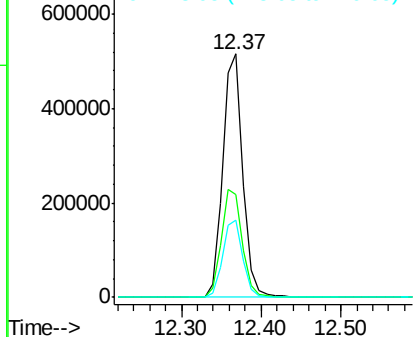
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 12.37 min Scan# 1112  
Delta R.T. 0.01 min  
Lab File: VD061027.D  
Acq: 12 Mar 2019 16:37

Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-26

Tot Ion:117 Resp: 913288  
Ion Ratio Lower Upper  
117 100  
82 42.1 38.9 58.3  
119 31.9 26.6 39.8

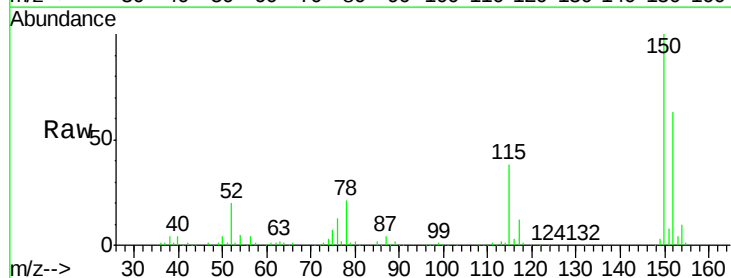


Abundance Ion 116.95 (116.65 to 117.65): V  
Ion 82.05 (81.75 to 82.75): V  
Ion 118.95 (118.65 to 119.65): V

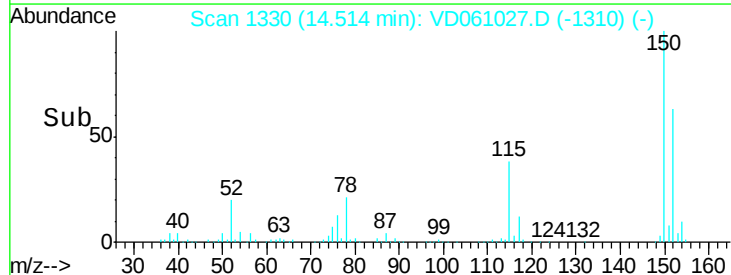
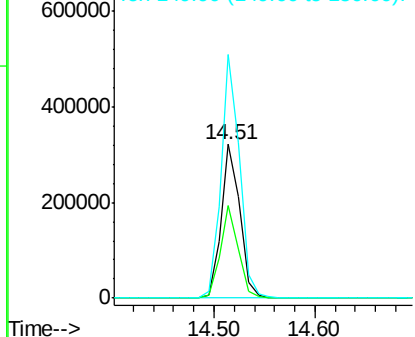


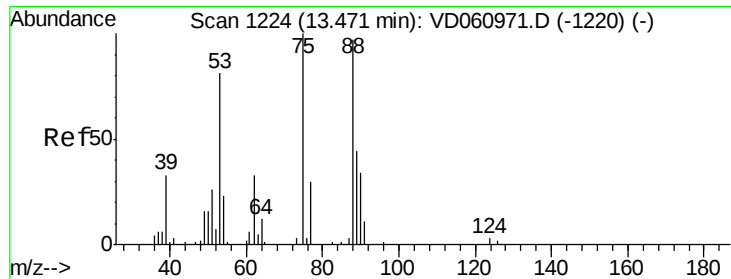
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 14.51 min Scan# 1330  
Delta R.T. -0.00 min  
Lab File: VD061027.D  
Acq: 12 Mar 2019 16:37

Tgt Ion:152 Resp: 416171  
Ion Ratio Lower Upper  
152 100  
115 60.3 28.6 85.9  
150 158.1 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





#81

trans-1,4-Dichloro-2-butene

Concen: 75.731 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD061027.D

Acq: 12 Mar 2019 16:37

Instrument :

MSVOA\_D

ClientSampleId :

TP-26

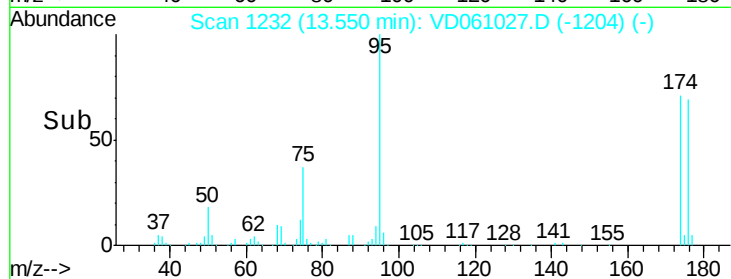
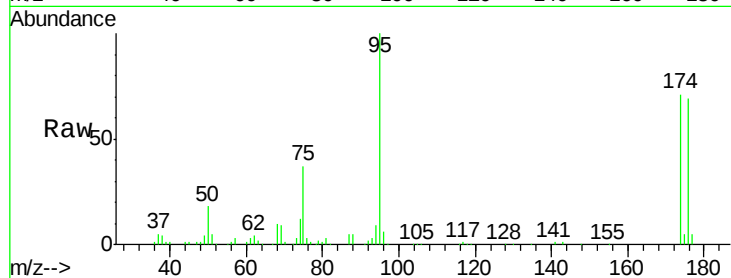
Tot Ion: 75 Resp: 133681

Ion Ratio Lower Upper

75 100

53 0.0 64.4 96.6#

89 0.0 34.8 52.2#



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

