

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD120618\  
 Data File : VD060501.D  
 Acq On : 6 Dec 2018 13:15  
 Operator : VA/AP  
 Sample : J6195-01  
 Misc : 6.6µl/MSVOA D/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 OR-01-120518-A

Quant Time: Dec 07 03:54:57 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D120518S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 06 01:49:20 2018  
 Response via : Initial Calibration

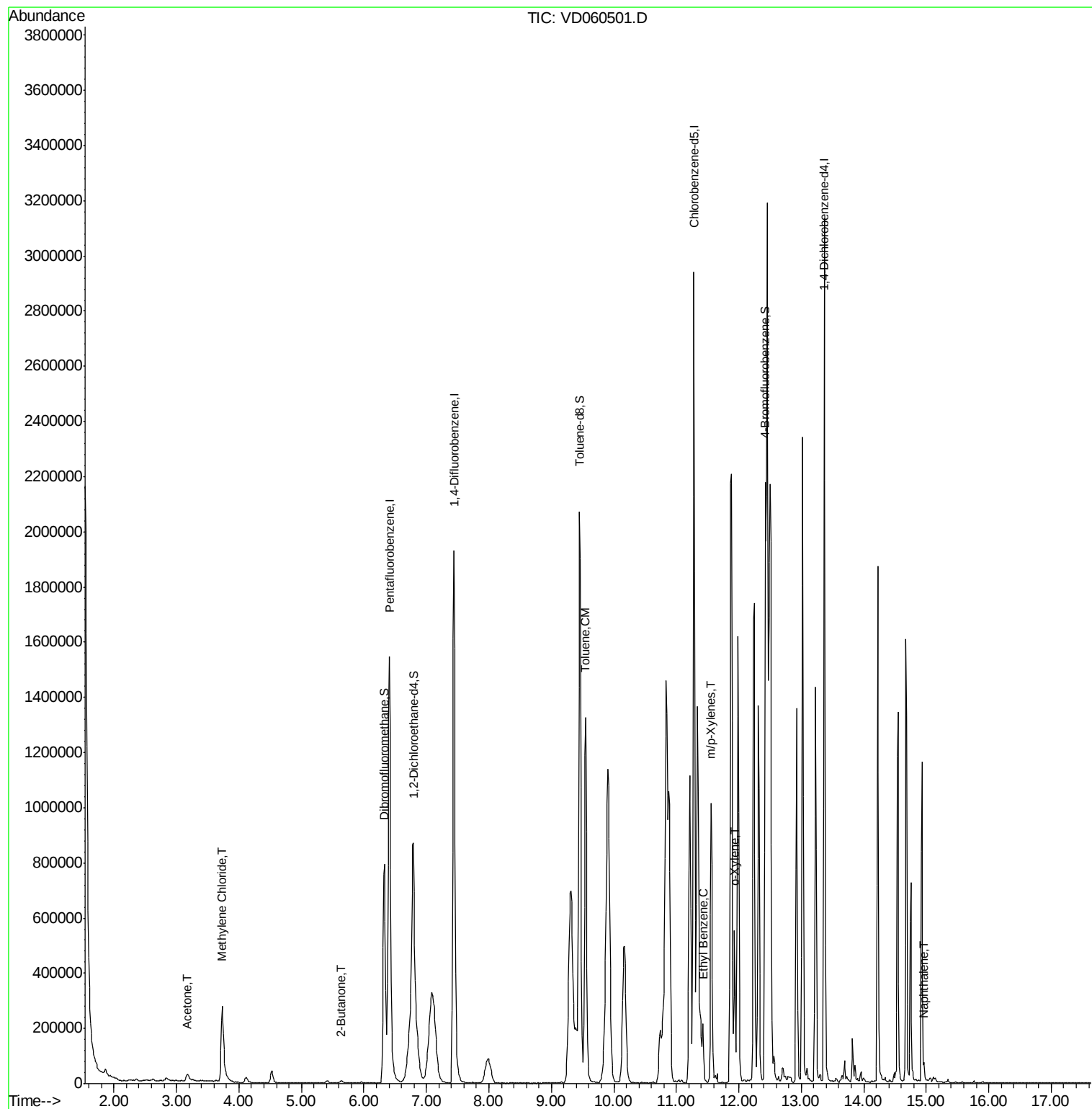
| Internal Standards          | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|--------|--------|----------|
| 1) Pentafluorobenzene       | 6.41   | 168  | 1537949  | 50.00  | ug/l   | -0.01    |
| 34) 1,4-Difluorobenzene     | 7.44   | 114  | 2112163  | 50.00  | ug/l   | -0.01    |
| 63) Chlorobenzene-d5        | 11.28  | 117  | 1676226  | 50.00  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.37  | 152  | 731954   | 50.00  | ug/l   | -0.01    |
| System Monitoring Compounds |        |      |          |        |        |          |
| 33) 1,2-Dichloroethane-d4   | 6.78   | 65   | 542121   | 49.73  | ug/l   | -0.01    |
| Spiked Amount               | 50.000 |      | Recovery | =      | 99.46% |          |
| 35) Dibromofluoromethane    | 6.33   | 113  | 654733   | 42.20  | ug/l   | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =      | 84.40% |          |
| 50) Toluene-d8              | 9.45   | 98   | 1711134  | 38.11  | ug/l   | -0.01    |
| Spiked Amount               | 50.000 |      | Recovery | =      | 76.22% |          |
| 62) 4-Bromofluorobenzene    | 12.42  | 95   | 593697   | 36.96  | ug/l   | -0.01    |
| Spiked Amount               | 50.000 |      | Recovery | =      | 73.92% |          |
| Target Compounds            |        |      |          |        |        |          |
|                             |        |      |          |        | Qvalue |          |
| 16) Acetone                 | 3.17   | 43   | 67442    | 38.597 | ug/l   | 94       |
| 20) Methylene Chloride      | 3.73   | 84   | 182499   | 7.580  | ug/l   | 98       |
| 25) 2-Butanone              | 5.62   | 43   | 12930    | 3.761  | ug/l # | 83       |
| 52) Toluene                 | 9.55   | 92   | 712499   | 21.604 | ug/l   | 96       |
| 67) Ethyl Benzene           | 11.43  | 91   | 143588   | 2.374  | ug/l   | 98       |
| 68) m/p-Xylenes             | 11.56  | 106  | 308254   | 13.775 | ug/l   | 100      |
| 69) o-Xylene                | 11.93  | 106  | 124640   | 5.845  | ug/l   | 92       |
| 95) Naphthalene             | 14.97  | 128  | 36414    | 1.944  | ug/l   | 98       |

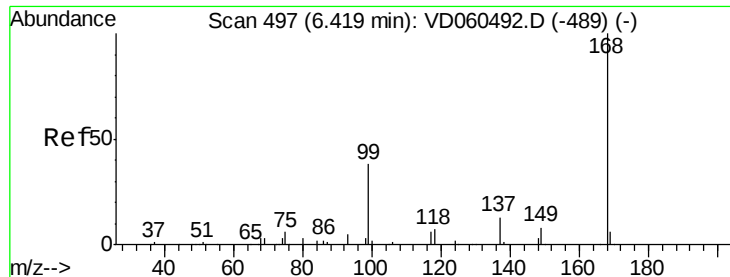
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD120618\  
Data File : VD060501.D  
Acq On : 6 Dec 2018 13:15  
Operator : VA/AP  
Sample : J6195-01  
Misc : 6.6a/5ml/MSVOA D/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
OR-01-120518-A

Quant Time: Dec 07 03:54:57 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D120518S.M  
Quant Title : SW846 8260  
QLast Update : Thu Dec 06 01:49:20 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.41 min Scan# 496

Delta R.T. -0.01 min

Lab File: VD060501.D

Acq: 6 Dec 2018 13:15

Instrument :

MSVOA\_D

ClientSampleId :

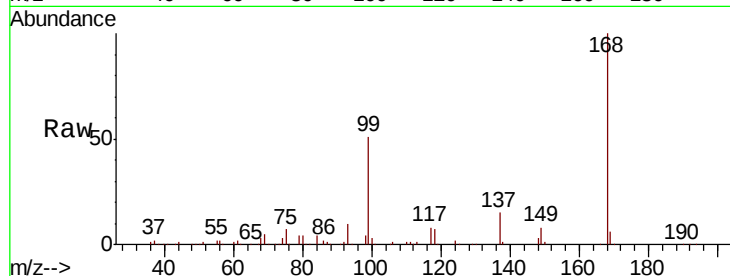
OR-01-120518-A

Tot Ion:168 Resp: 1537949

Ion Ratio Lower Upper

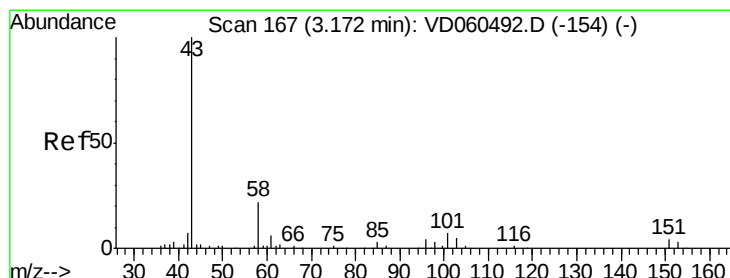
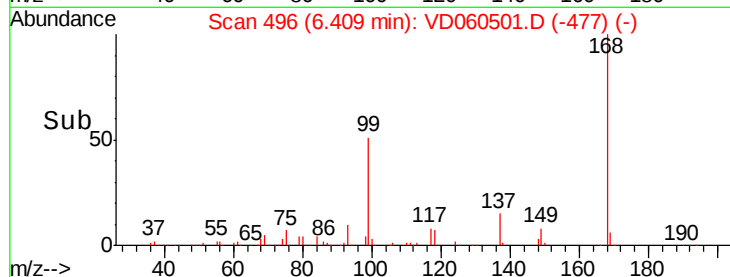
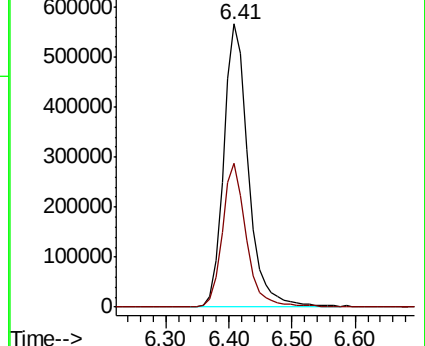
168 100

99 50.9 35.6 53.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#16

Acetone

Concen: 38.597 ug/l

RT: 3.17 min Scan# 167

Delta R.T. -0.00 min

Lab File: VD060501.D

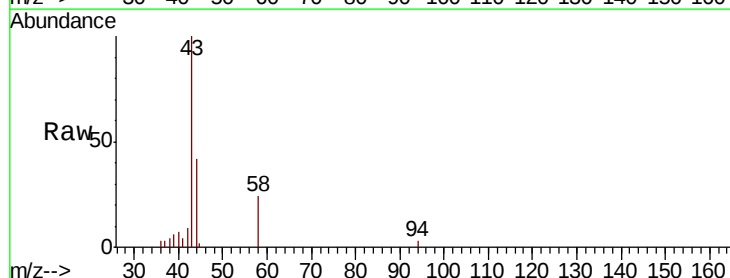
Acq: 6 Dec 2018 13:15

Tgt Ion: 43 Resp: 67442

Ion Ratio Lower Upper

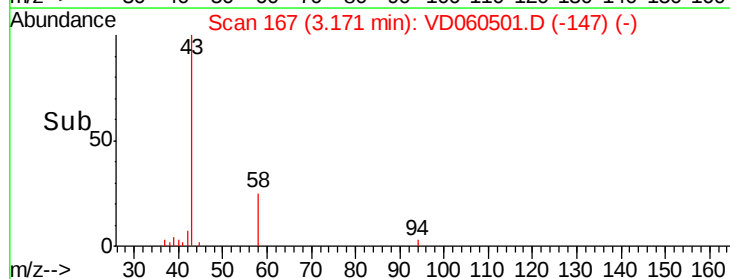
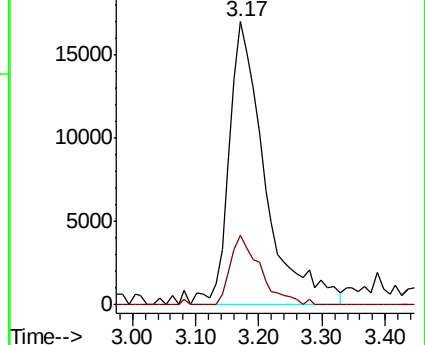
43 100

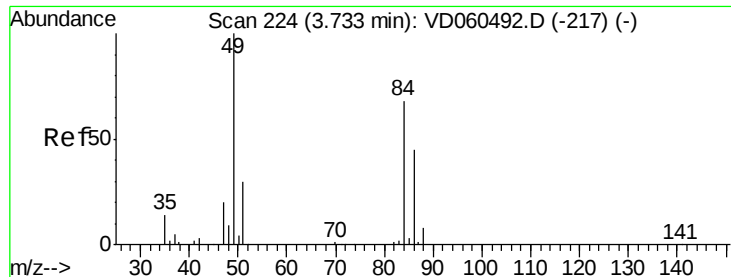
58 24.4 17.3 25.9



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

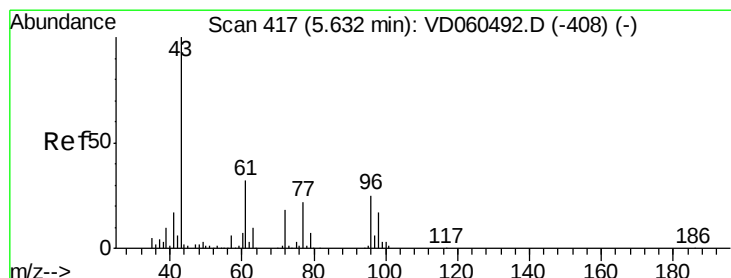
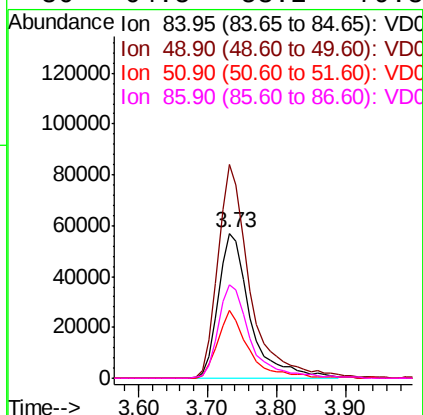
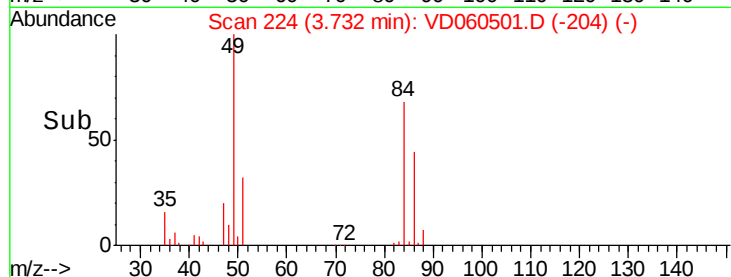
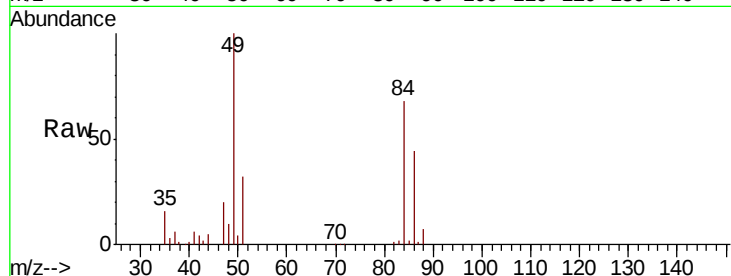




#20  
Methvlene Chloride  
Concen: 7.580 ug/l  
RT: 3.73 min Scan# 224  
Delta R.T. -0.00 min  
Lab File: VD060501.D  
Acq: 6 Dec 2018 13:15

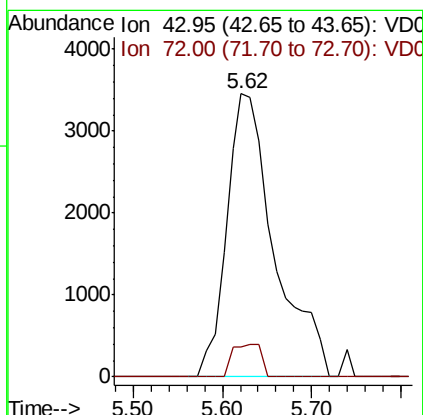
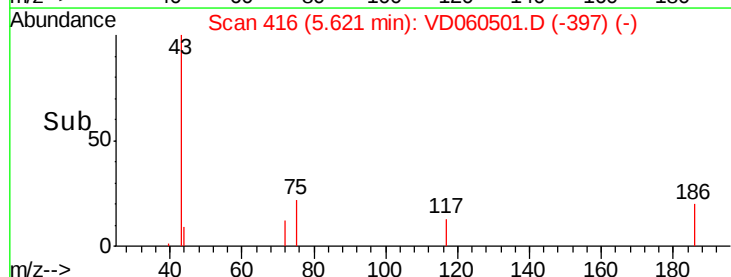
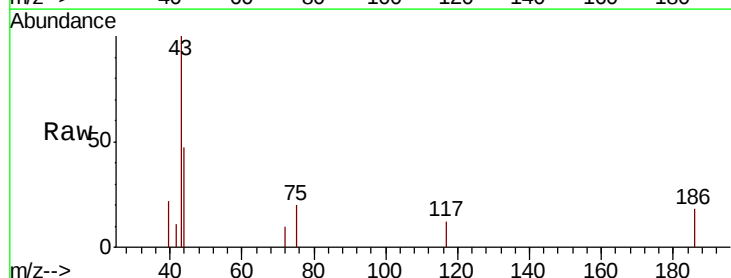
Instrument :  
MSVOA\_D  
ClientSampleId :  
OR-01-120518-A

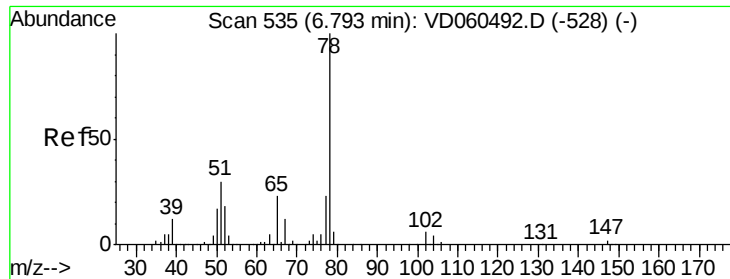
Tot Ion: 84 Resp: 182499  
Ion Ratio Lower Upper  
84 100  
49 147.5 117.2 175.8  
51 46.8 35.3 52.9  
86 64.5 53.2 79.8



#25  
2-Butanone  
Concen: 3.761 ug/l  
RT: 5.62 min Scan# 416  
Delta R.T. -0.01 min  
Lab File: VD060501.D  
Acq: 6 Dec 2018 13:15

Tgt Ion: 43 Resp: 12930  
Ion Ratio Lower Upper  
43 100  
72 10.4 14.6 21.8#





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 6.78 min Scan# 534

Delta R.T. -0.01 min

Lab File: VD060501.D

Acq: 6 Dec 2018 13:15

Instrument :

MSVOA\_D

ClientSampleId :

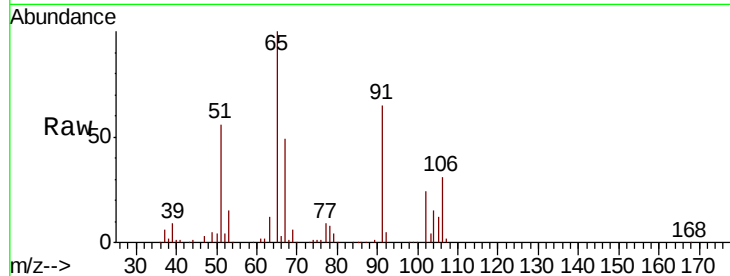
OR-01-120518-A

Tot Ion: 65 Resp: 542121

Ion Ratio Lower Upper

65 100

67 49.4 0.0 106.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

6.78

200000

150000

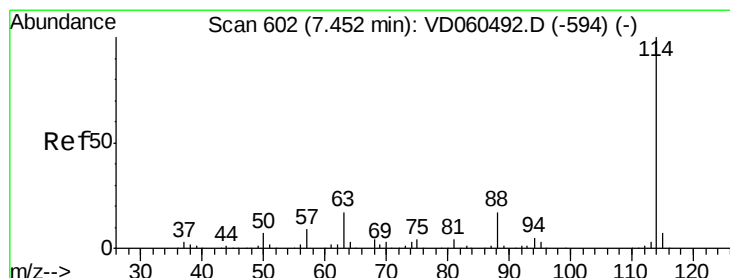
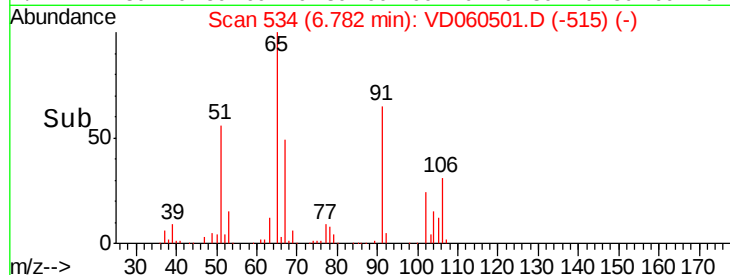
100000

50000

0

6.60 6.80 7.00

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 7.44 min Scan# 601

Delta R.T. -0.01 min

Lab File: VD060501.D

Acq: 6 Dec 2018 13:15

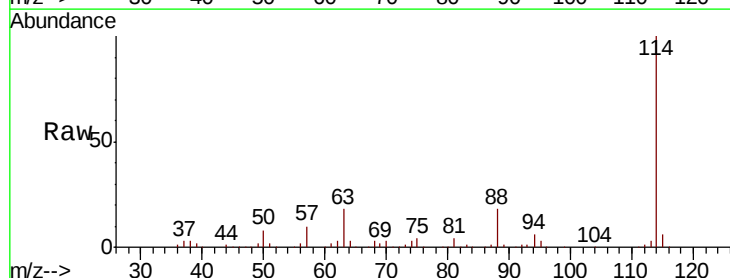
Tgt Ion:114 Resp: 2112163

Ion Ratio Lower Upper

114 100

63 17.8 0.0 34.2

88 18.1 0.0 35.0



Abundance Ion 114.00 (113.70 to 114.70): VDC

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

7.44

1000000

800000

600000

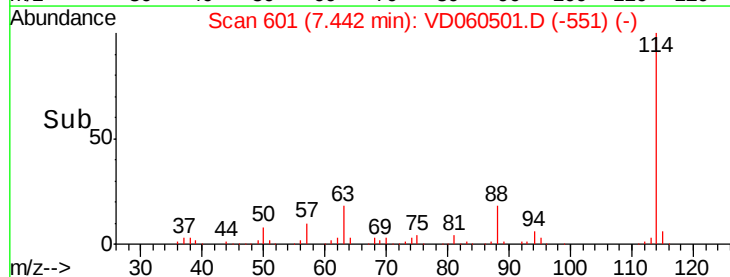
400000

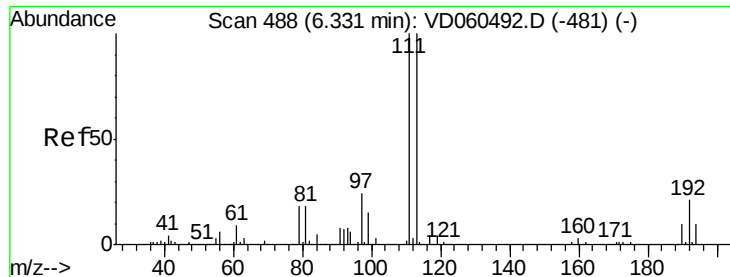
200000

0

7.40 7.60

Time-->





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.33 min Scan# 488

Delta R.T. -0.00 min

Lab File: VD060501.D

Acq: 6 Dec 2018 13:15

Instrument :

MSVOA\_D

ClientSampleId :

OR-01-120518-A

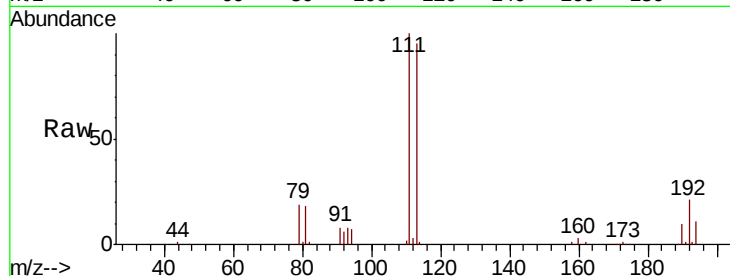
Tot Ion:113 Resp: 654733

Ion Ratio Lower Upper

113 100

111 105.4 80.2 120.4

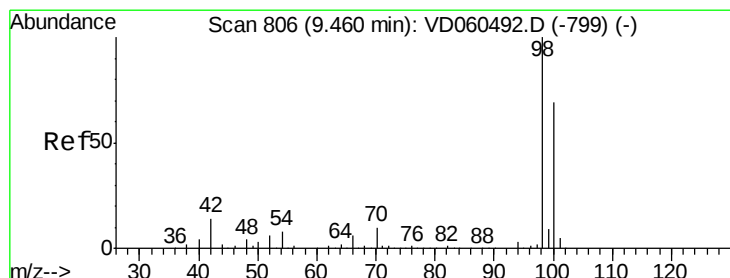
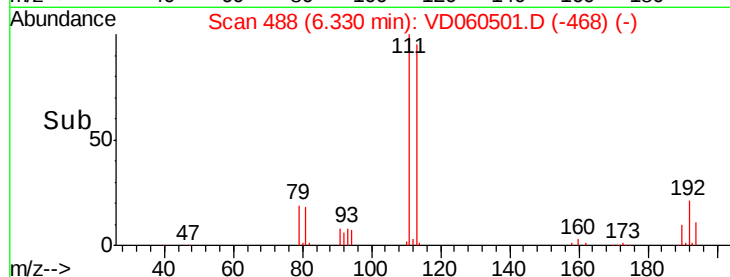
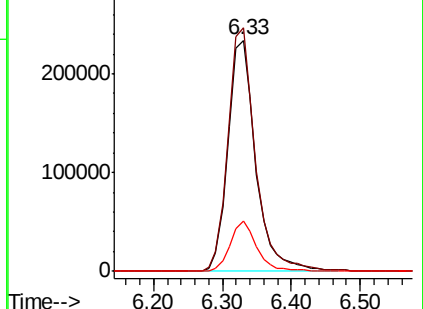
192 21.8 16.6 24.8



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: N.D. ug/l

RT: 9.45 min Scan# 805

Delta R.T. -0.01 min

Lab File: VD060501.D

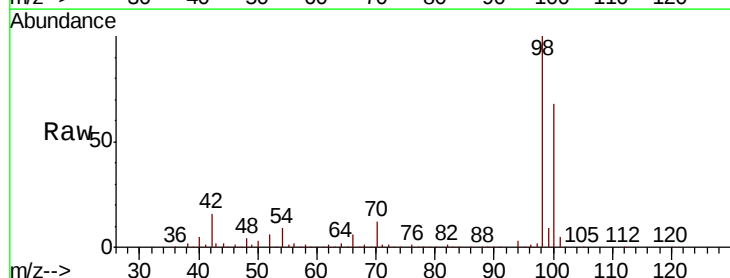
Acq: 6 Dec 2018 13:15

Tgt Ion: 98 Resp: 1711134

Ion Ratio Lower Upper

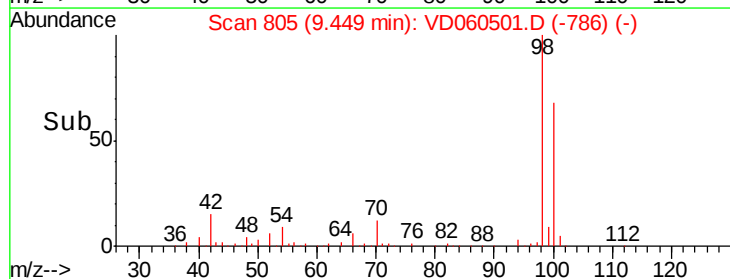
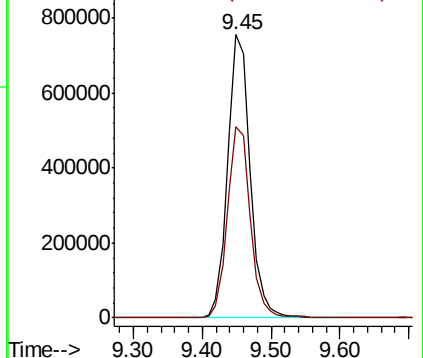
98 100

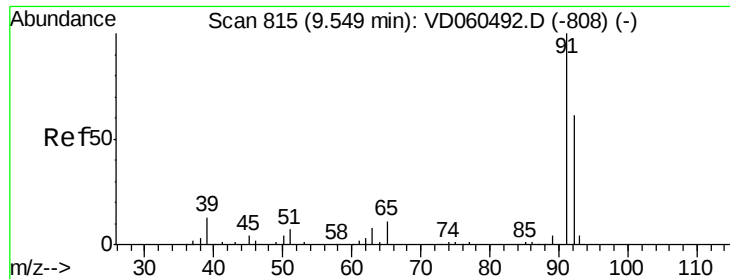
100 67.8 55.7 83.5



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V





#52

Toluene

Concen: 21.604 ug/l

RT: 9.55 min Scan# 815

Delta R.T. -0.00 min

Lab File: VD060501.D

Acq: 6 Dec 2018 13:15

Instrument :

MSVOA\_D

ClientSampleId :

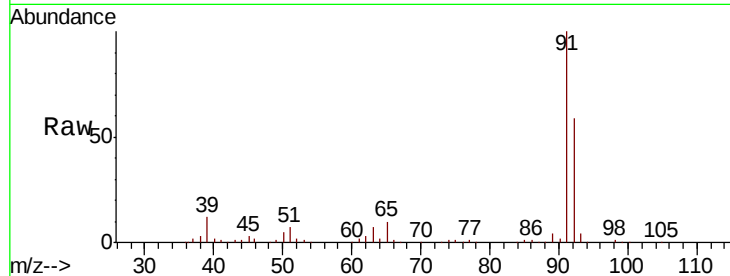
OR-01-120518-A

Tot Ion: 92 Resp: 712499

Ion Ratio Lower Upper

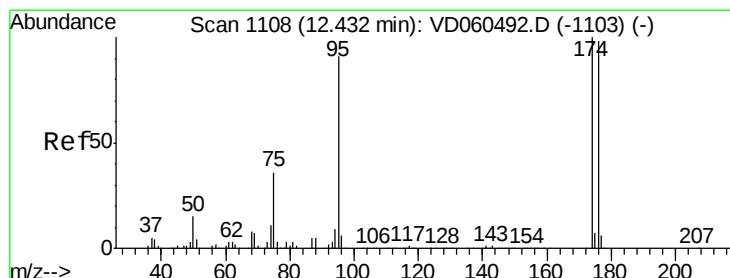
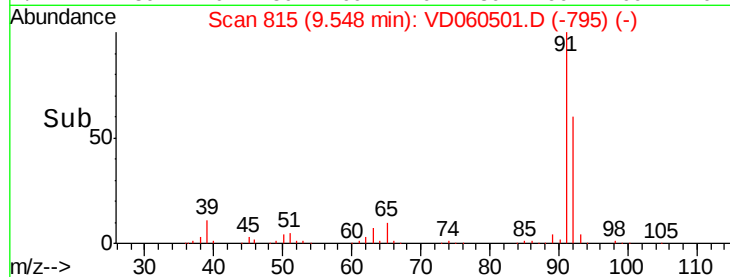
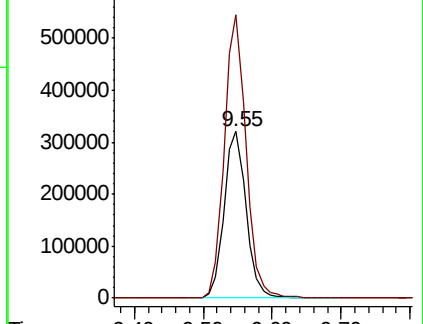
92 100

91 169.7 131.7 197.5



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#62

4-Bromofluorobenzene

Concen: Below ug/l

RT: 12.42 min Scan# 1107

Delta R.T. -0.01 min

Lab File: VD060501.D

Acq: 6 Dec 2018 13:15

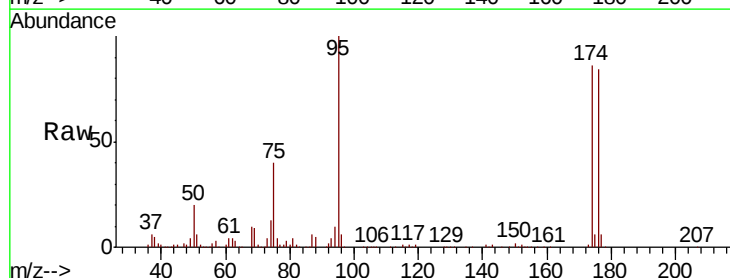
Tgt Ion: 95 Resp: 593697

Ion Ratio Lower Upper

95 100

174 86.0 0.0 219.4

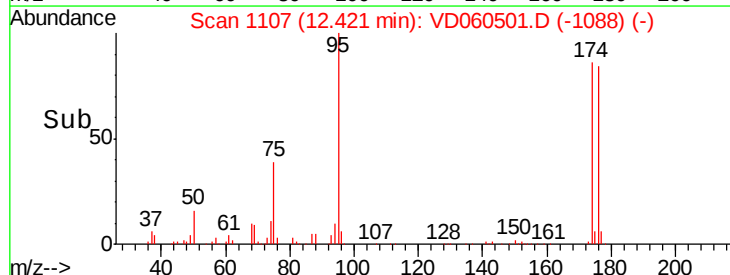
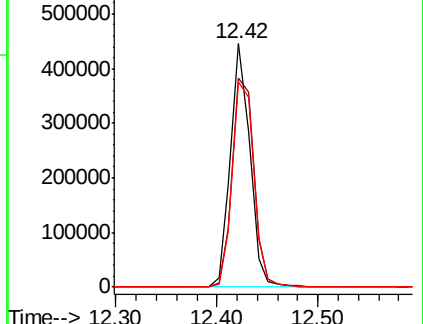
176 84.3 0.0 214.6

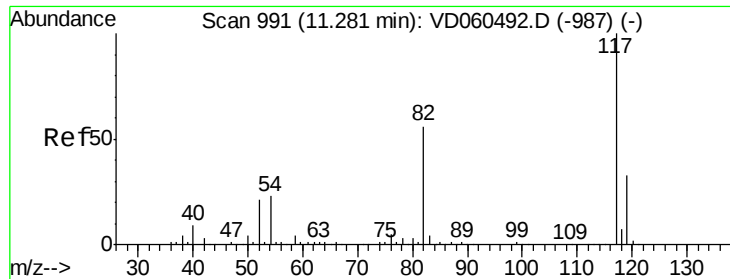


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

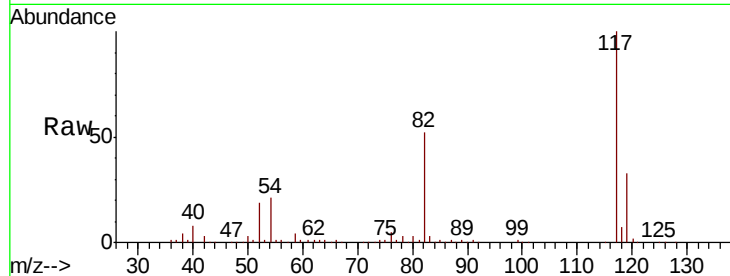




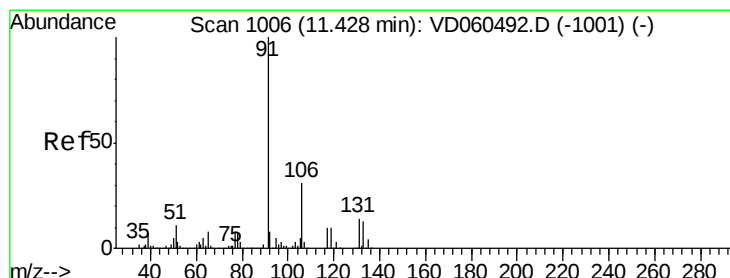
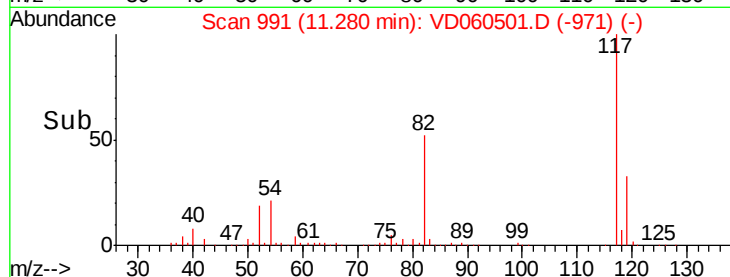
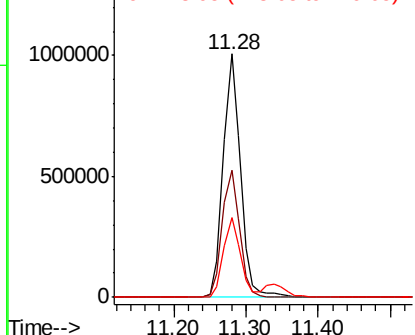
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.28 min Scan# 991  
Delta R.T. -0.00 min  
Lab File: VD060501.D  
Acq: 6 Dec 2018 13:15

Instrument :  
MSVOA\_D  
ClientSampleId :  
OR-01-120518-A

Tot Ion:117 Resp: 1676226  
Ion Ratio Lower Upper  
117 100  
82 52.4 45.2 67.8  
119 32.6 26.1 39.1

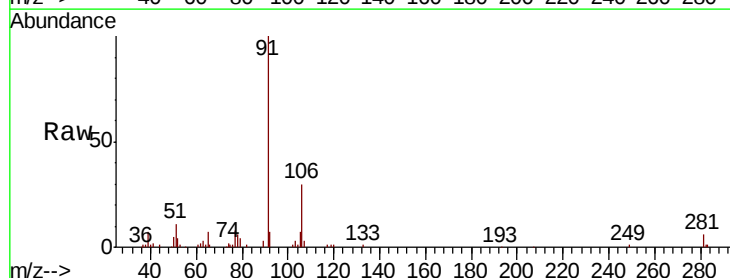


Abundance Ion 116.95 (116.65 to 117.65): V  
Ion 82.05 (81.75 to 82.75): VDC  
Ion 118.95 (118.65 to 119.65): V

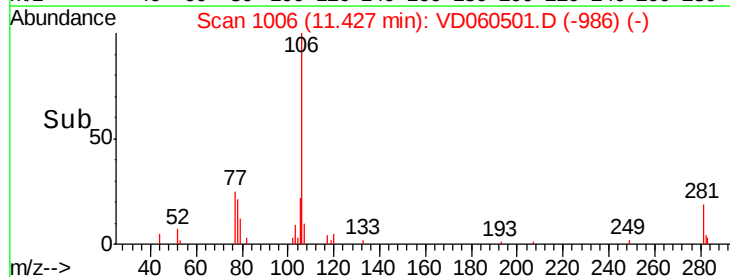
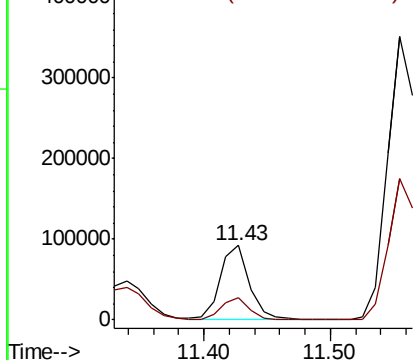


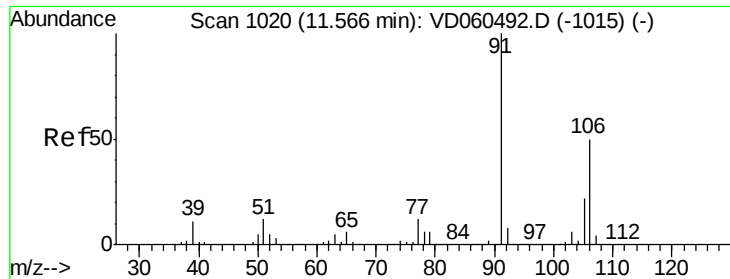
#67  
Ethyl Benzene  
Concen: 2.374 ug/l  
RT: 11.43 min Scan# 1006  
Delta R.T. -0.00 min  
Lab File: VD060501.D  
Acq: 6 Dec 2018 13:15

Tgt Ion: 91 Resp: 143588  
Ion Ratio Lower Upper  
91 100  
106 29.6 24.6 37.0



Abundance Ion 91.00 (90.70 to 91.70): VDC  
Ion 106.05 (105.75 to 106.75): V

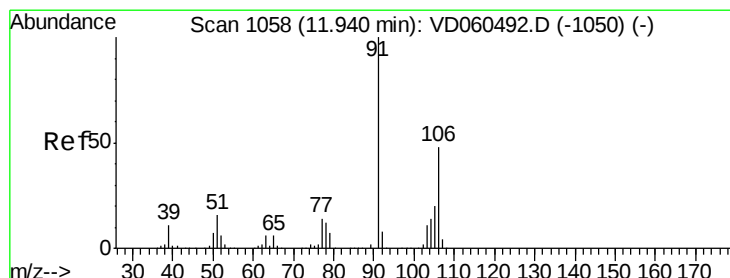
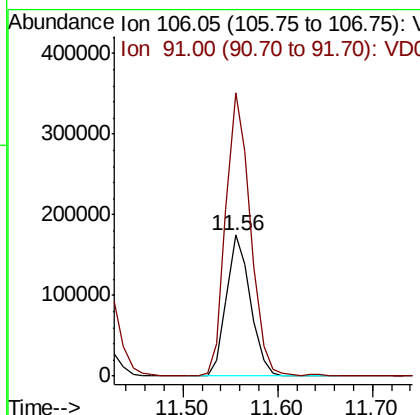
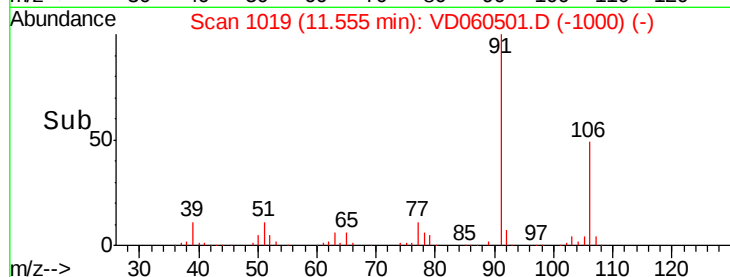
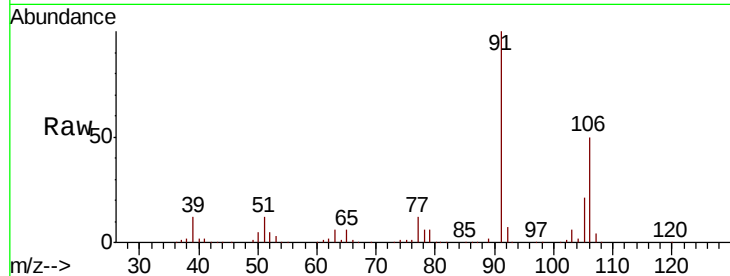




#68  
m/p-Xvlenes  
Concen: 13.775 ug/l  
RT: 11.56 min Scan# 1019  
Delta R.T. -0.01 min  
Lab File: VD060501.D  
Acq: 6 Dec 2018 13:15

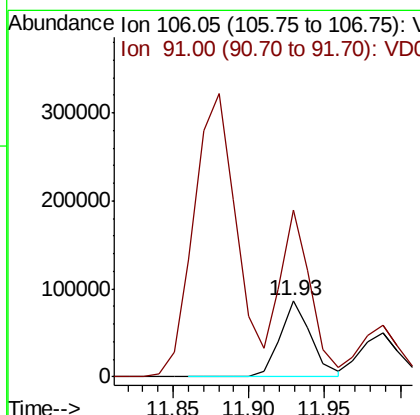
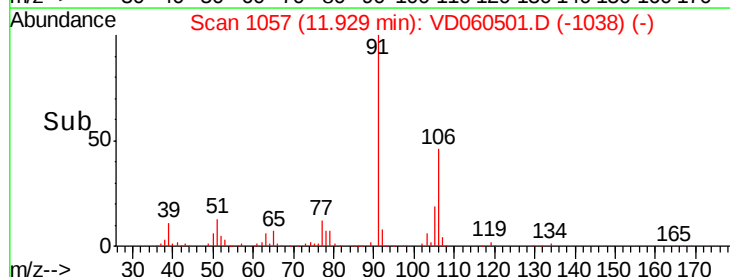
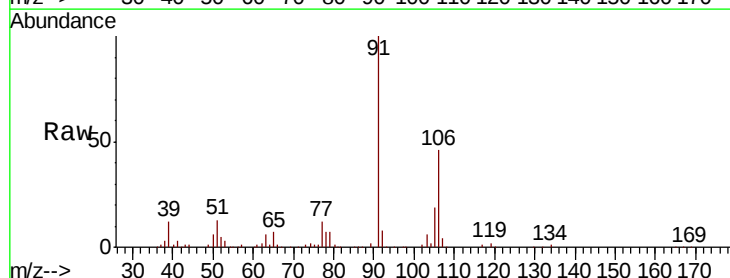
Instrument :  
MSVOA\_D  
ClientSampleId :  
OR-01-120518-A

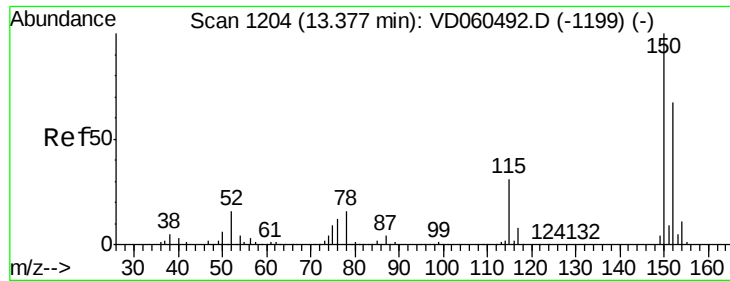
Tot Ion:106 Resp: 308254  
Ion Ratio Lower Upper  
106 100  
91 201.2 160.5 240.7



#69  
o-Xylene  
Concen: 5.845 ug/l  
RT: 11.93 min Scan# 1057  
Delta R.T. -0.01 min  
Lab File: VD060501.D  
Acq: 6 Dec 2018 13:15

Tgt Ion:106 Resp: 124640  
Ion Ratio Lower Upper  
106 100  
91 219.1 103.4 310.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.37 min Scan# 1203

Delta R.T. -0.01 min

Lab File: VD060501.D

Acq: 6 Dec 2018 13:15

Instrument :

MSVOA\_D

ClientSampleId :

OR-01-120518-A

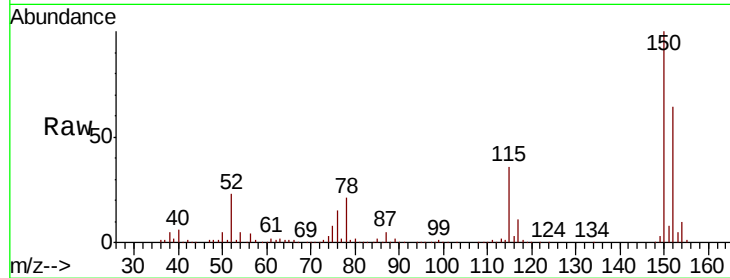
Tot Ion:152 Resp: 731954

Ion Ratio Lower Upper

152 100

115 56.0 24.6 74.0

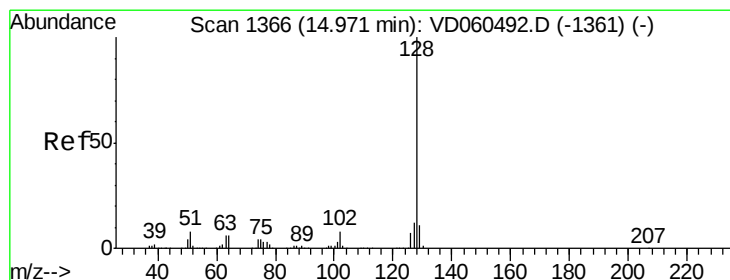
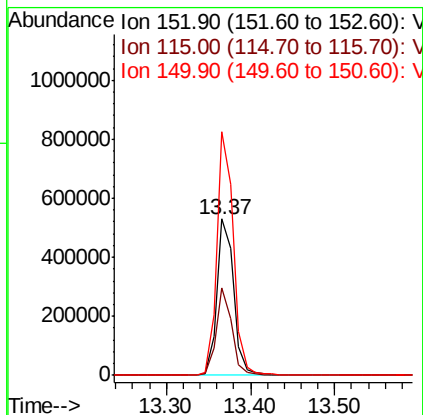
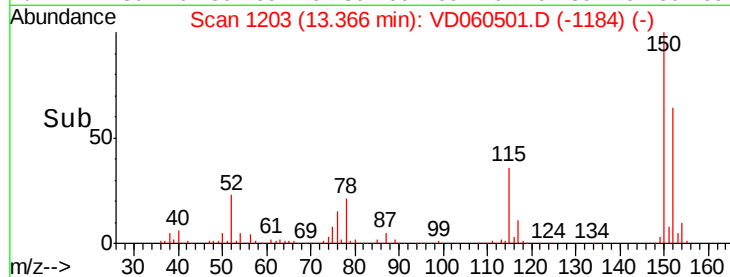
150 155.9 0.0 309.0



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



#95

Naphthalene

Concen: 1.944 ug/l

RT: 14.97 min Scan# 1366

Delta R.T. -0.00 min

Lab File: VD060501.D

Acq: 6 Dec 2018 13:15

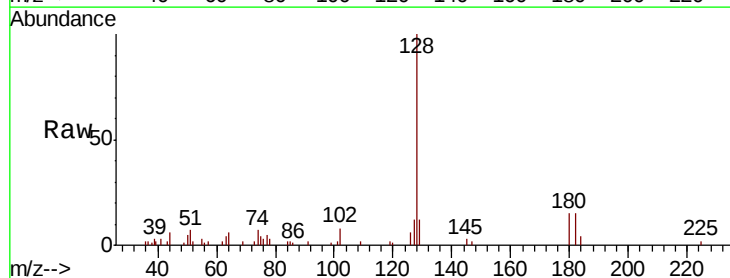
Tgt Ion:128 Resp: 36414

Ion Ratio Lower Upper

128 100

127 12.4 9.8 14.8

129 12.2 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

