

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_D\DATA\VD121718\  
 Data File : VD060601.D  
 Acq On : 17 Dec 2018 16:02  
 Operator : VA/AP  
 Sample : J6424-01  
 Misc : 5.06g/5ml/MSVOA\_D/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 EB12\_1.5-2.5

Quant Time: Dec 18 11:16:45 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      | 6.42  | 168  | 1378544  | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 7.47  | 114  | 1921791  | 50.00 | ug/l  | 0.01     |
| 63) Chlorobenzene-d5       | 11.29 | 117  | 1519443  | 50.00 | ug/l  | 0.01     |
| 72) 1,4-Dichlorobenzene-d4 | 13.38 | 152  | 806993   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.81  | 65   | 472929   | 48.40 | ug/l   | 0.01     |
| Spiked Amount               |       |      | Recovery | =     | 96.80% |          |
| 35) Dibromofluoromethane    | 6.34  | 113  | 663672   | 47.02 | ug/l   | 0.01     |
| Spiked Amount               |       |      | Recovery | =     | 94.04% |          |
| 50) Toluene-d8              | 9.47  | 98   | 1926620  | 47.16 | ug/l   | 0.01     |
| Spiked Amount               |       |      | Recovery | =     | 94.32% |          |
| 62) 4-Bromofluorobenzene    | 12.44 | 95   | 646565   | 44.24 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 88.48% |          |

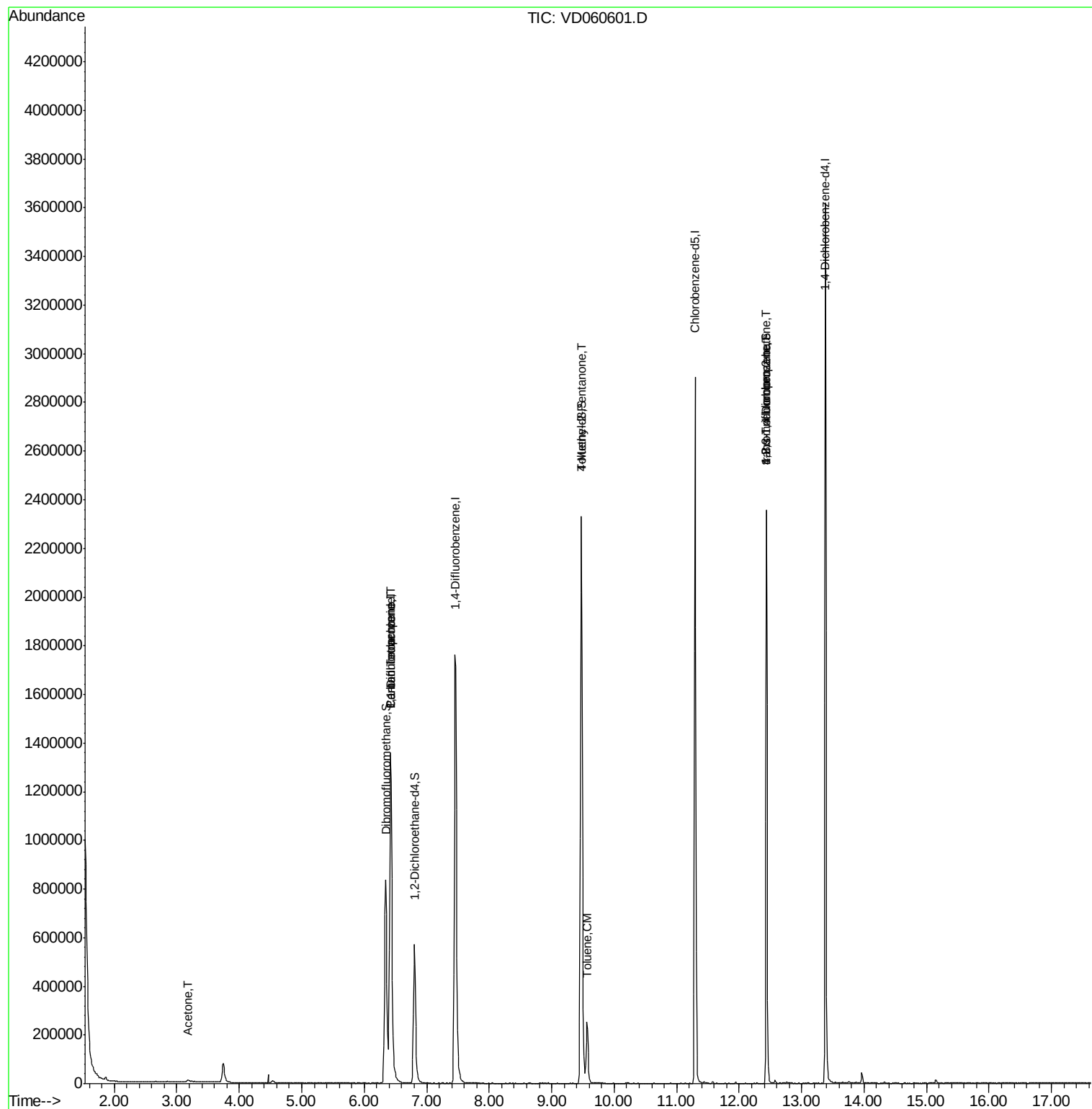
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 16) Acetone                    | 3.18  | 43   | 20373    | 13.008    | ug/l   | 92     |
| 20) Methylene Chloride         | 3.75  | 84   | 52524    | Below Cal |        | 92     |
| 31) Cyclohexane                | 6.42  | 56   | 23842    | Below Cal | #      | 1      |
| 36) 1,1-Dichloropropene        | 6.42  | 75   | 96687    | 5.147     | ug/l # | 46     |
| 38) Carbon Tetrachloride       | 6.42  | 117  | 103677   | 6.148     | ug/l # | 16     |
| 51) 4-Methyl-2-Pentanone       | 9.47  | 43   | 11403    | 1.823     | ug/l # | 1      |
| 52) Toluene                    | 9.56  | 92   | 126769   | 4.225     | ug/l   | 91     |
| 76) 1,2,3-Trichloropropane     | 12.44 | 75   | 258186   | 28.236    | ug/l # | 44     |
| 81) trans-1,4-Dichloro-2-buten | 12.44 | 75   | 265751   | 104.207   | ug/l # | 14     |
| 89) n-Butylbenzene             | 13.66 | 91   | 950      | Below Cal | #      | 84     |

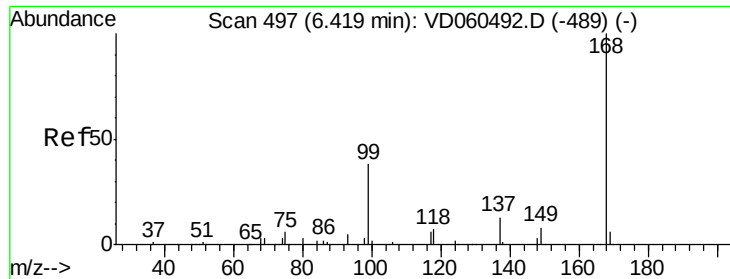
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_D\DATA\VD121718\  
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Sample : J6424-01  
Misc : 5.06g/5ml/MSVOA\_D/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
EB12\_1.5-2.5

Quant Time: Dec 18 11:16:45 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: 6.42 min Scan# 498

Delta R.T. 0.00 min

Lab File: VD060601.D

Acq: 17 Dec 2018 16:02

Instrument :

MSVOA\_D

ClientSampleId :

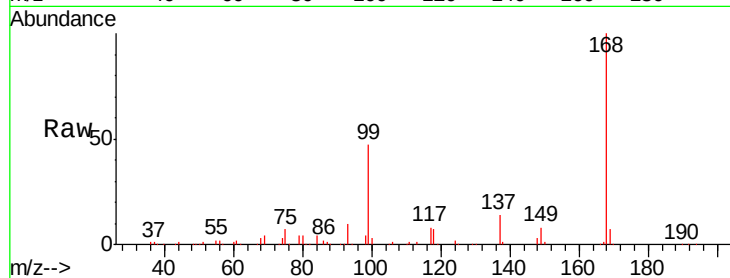
EB12\_1.5-2.5

Tgt Ion:168 Resp: 1378544

Ion Ratio Lower Upper

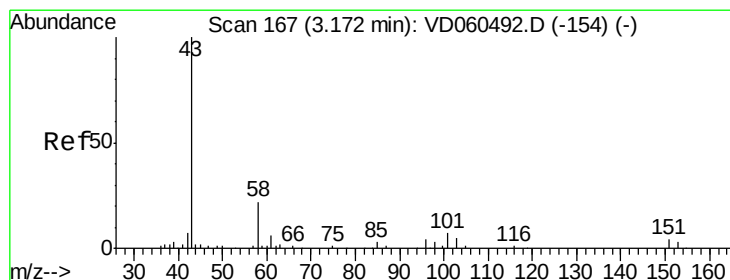
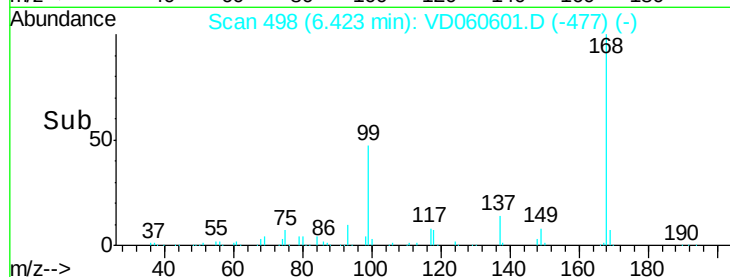
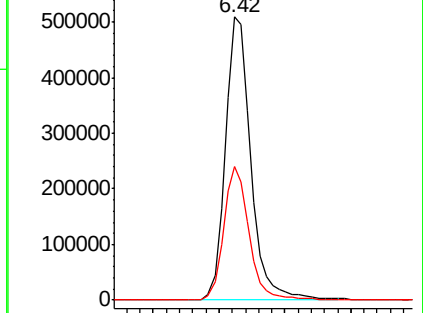
168 100

99 47.4 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: 13.008 ug/l

RT: 3.18 min Scan# 168

Delta R.T. 0.00 min

Lab File: VD060601.D

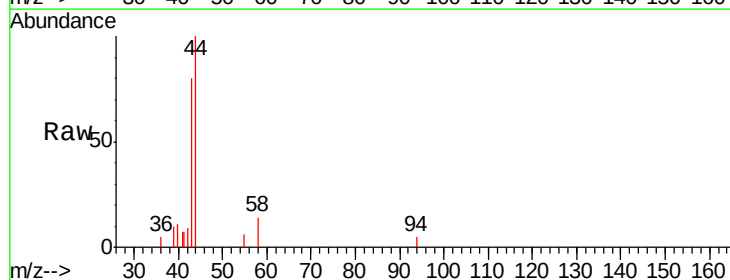
Acq: 17 Dec 2018 16:02

Tgt Ion: 43 Resp: 20373

Ion Ratio Lower Upper

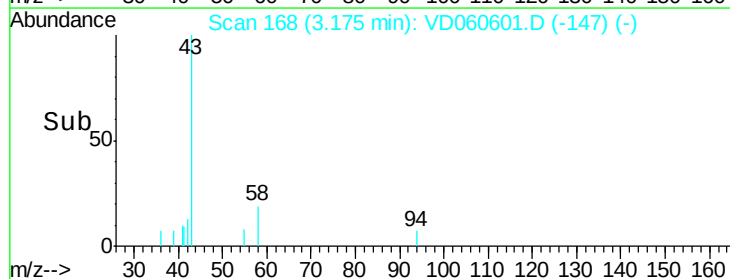
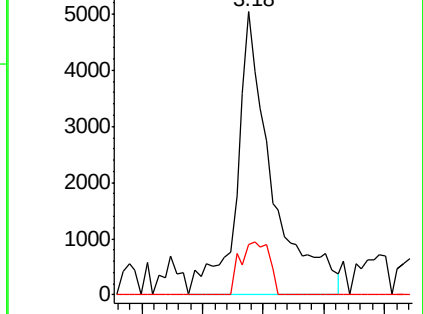
43 100

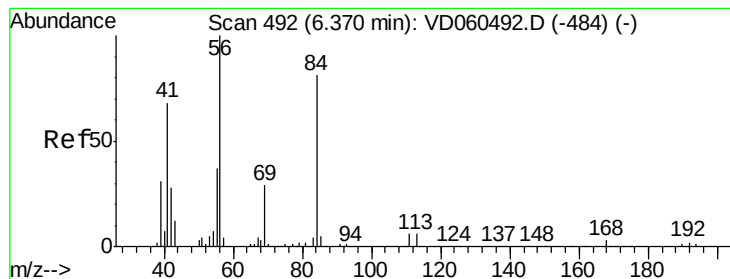
58 17.6 17.3 25.9



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#31

Cyclohexane

Concen: Below Cal

RT: 6.42 min Scan# 498

Delta R.T. 0.05 min

Lab File: VD060601.D

Acq: 17 Dec 2018 16:02

Instrument :

MSVOA\_D

ClientSampleId :

EB12\_1.5-2.5

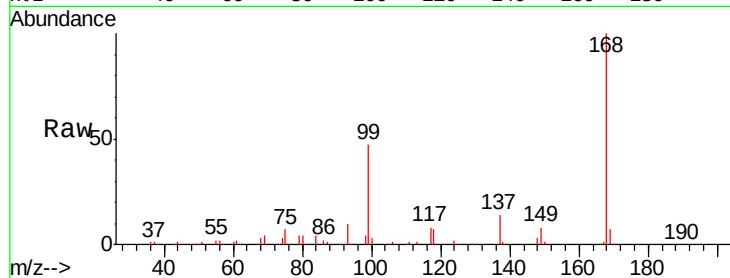
Tgt Ion: 56 Resp: 23842

Ion Ratio Lower Upper

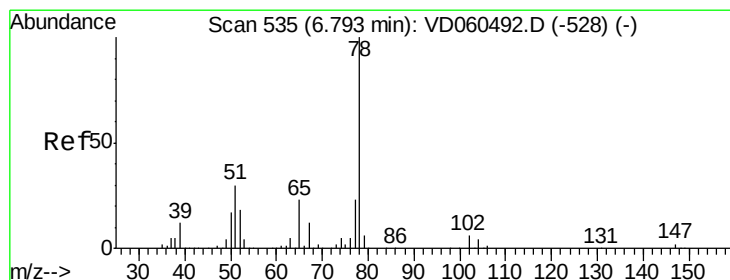
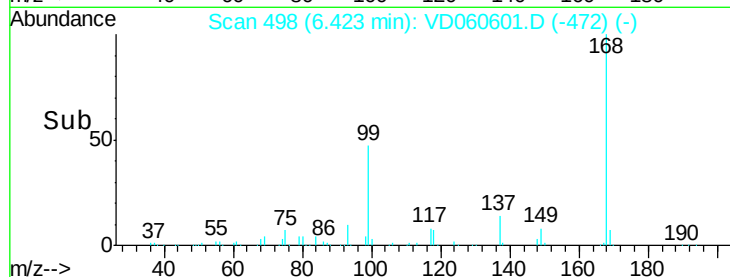
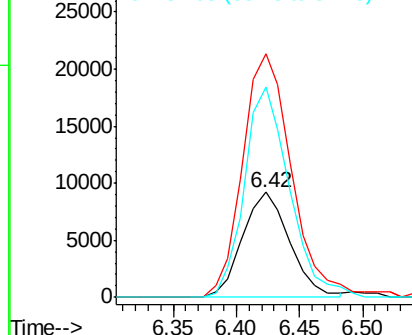
56 100

69 231.4 22.8 34.2#

84 200.3 65.1 97.7#



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: 6.81 min Scan# 537

Delta R.T. 0.01 min

Lab File: VD060601.D

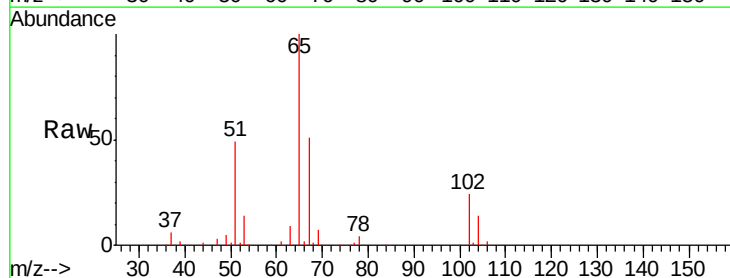
Acq: 17 Dec 2018 16:02

Tgt Ion: 65 Resp: 472929

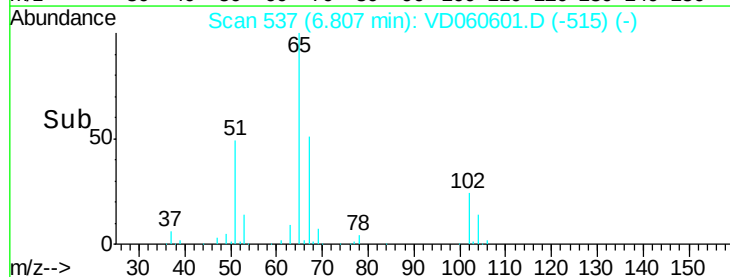
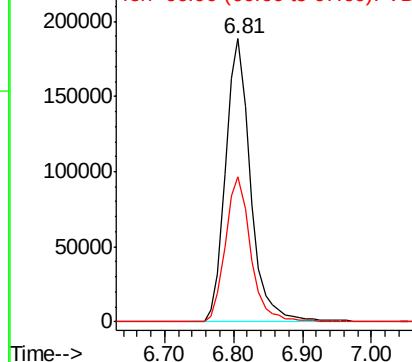
Ion Ratio Lower Upper

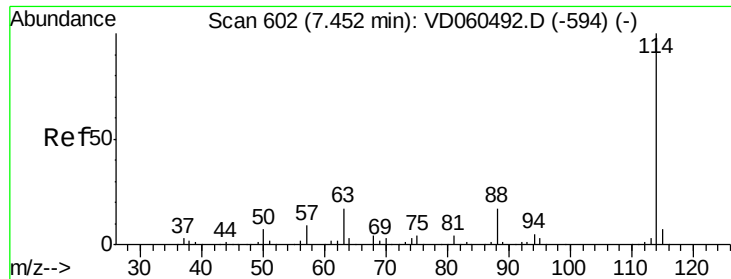
65 100

67 51.1 0.0 106.8



Abundance Ion 64.95 (64.65 to 65.65): VDC  
Ion 66.90 (66.60 to 67.60): VDC

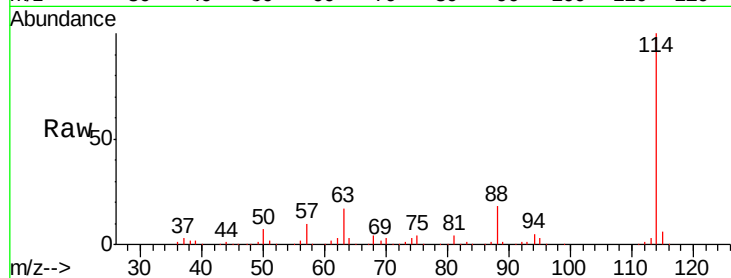




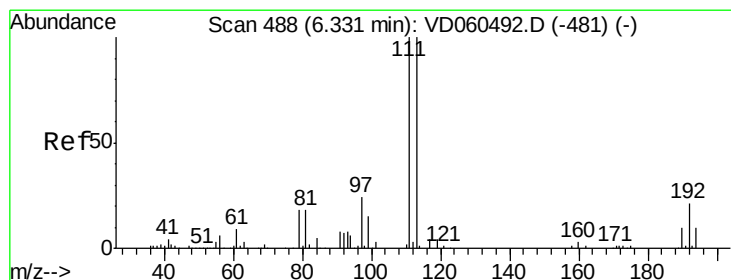
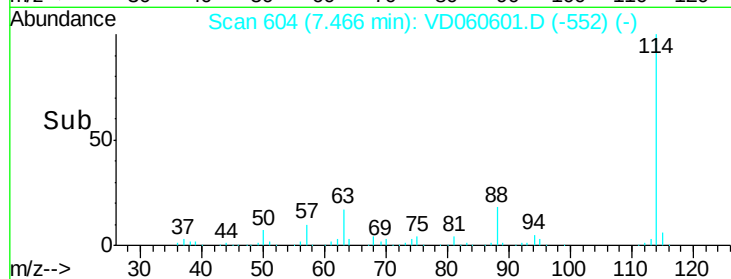
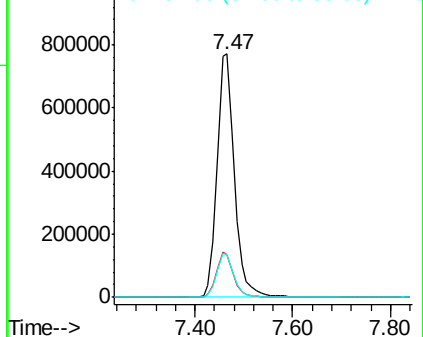
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 7.47 min Scan# 604  
 Delta R.T. 0.01 min  
 Lab File: VD060601.D  
 Acq: 17 Dec 2018 16:02

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 EB12\_1.5-2.5

Tgt Ion:114 Resp: 1921791  
 Ion Ratio Lower Upper  
 114 100  
 63 17.4 0.0 34.2  
 88 17.7 0.0 35.0

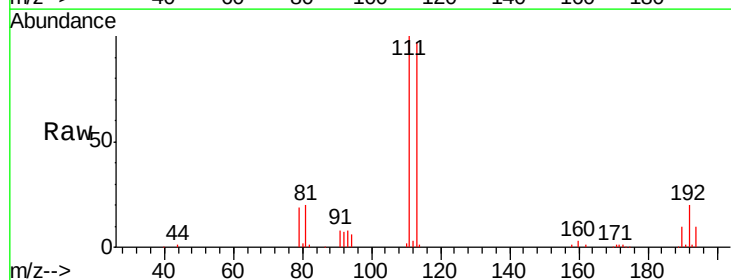


Abundance Ion 114.00 (113.70 to 114.70): V  
 Ion 62.95 (62.65 to 63.65): V  
 Ion 87.90 (87.60 to 88.60): V

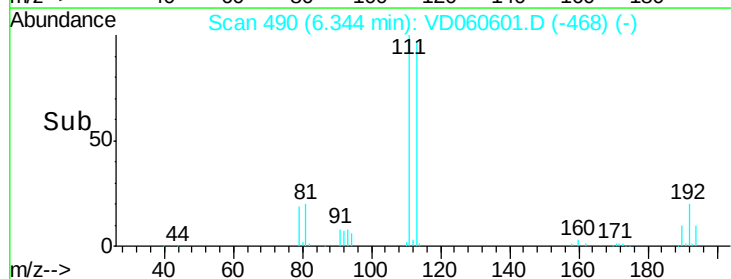
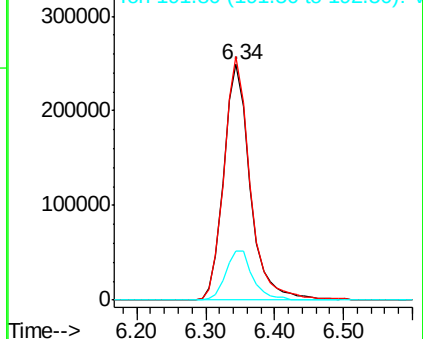


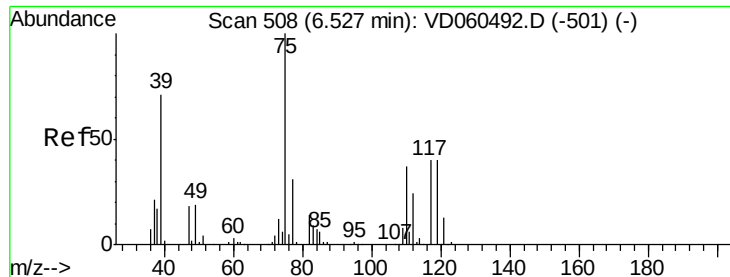
#35  
 Dibromofluoromethane  
 Concen: 50.000 ug/l  
 RT: 6.34 min Scan# 490  
 Delta R.T. 0.01 min  
 Lab File: VD060601.D  
 Acq: 17 Dec 2018 16:02

Tgt Ion:113 Resp: 663672  
 Ion Ratio Lower Upper  
 113 100  
 111 103.4 80.2 120.4  
 192 20.9 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

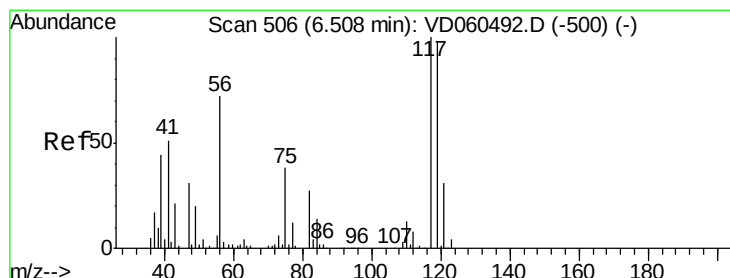
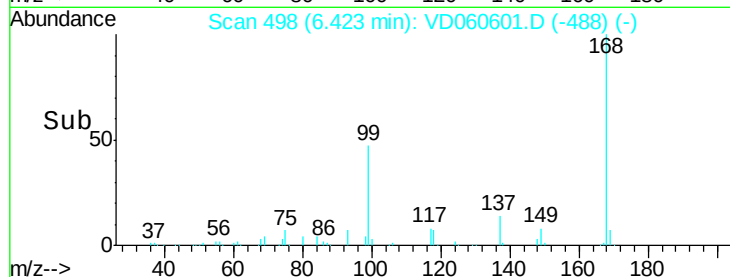
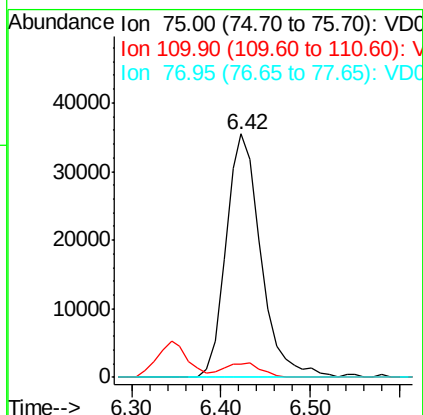
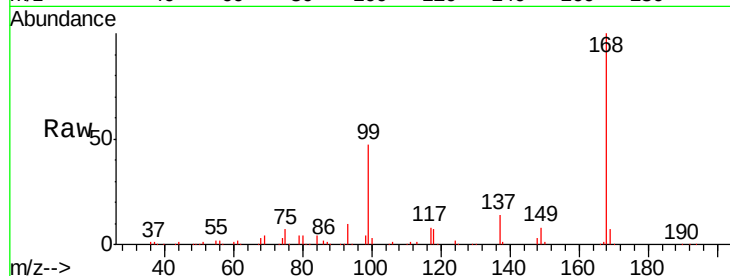




#36  
 1,1-Dichloropropene  
 Concen: 5.147 ug/l  
 RT: 6.42 min Scan# 498  
 Delta R.T. -0.10 min  
 Lab File: VD060601.D  
 Acq: 17 Dec 2018 16:02

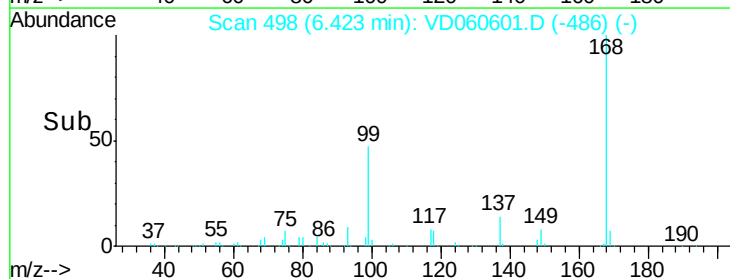
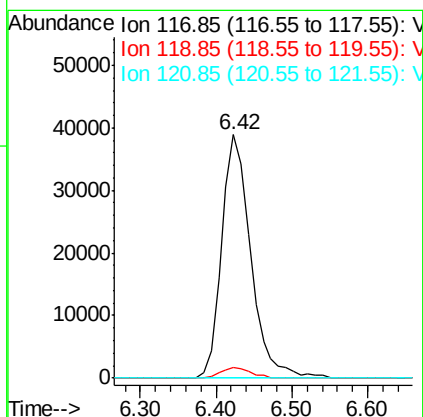
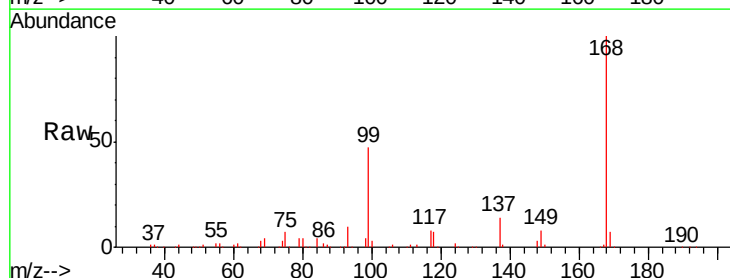
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 EB12\_1.5-2.5

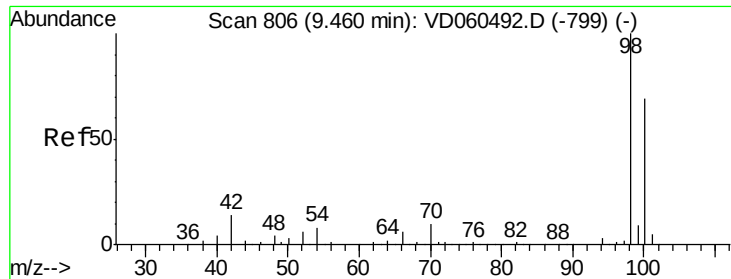
Tgt Ion: 75 Resp: 96687  
 Ion Ratio Lower Upper  
 75 100  
 110 5.4 18.3 54.8#  
 77 0.0 24.6 37.0#



#38  
 Carbon Tetrachloride  
 Concen: 6.148 ug/l  
 RT: 6.42 min Scan# 498  
 Delta R.T. -0.08 min  
 Lab File: VD060601.D  
 Acq: 17 Dec 2018 16:02

Tgt Ion: 117 Resp: 103677  
 Ion Ratio Lower Upper  
 117 100  
 119 4.6 76.8 115.2#  
 121 0.0 24.4 36.6#

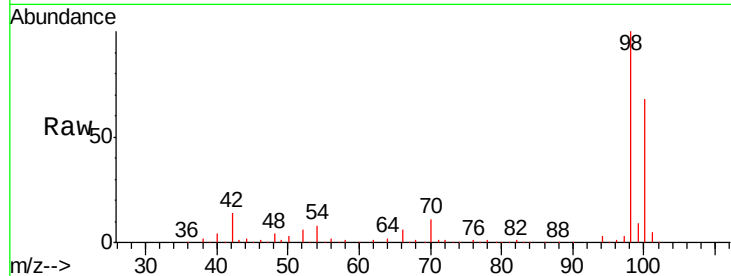




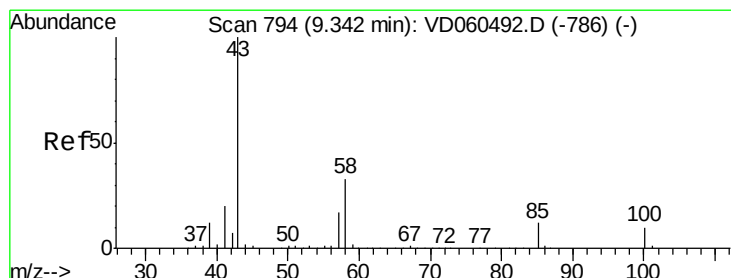
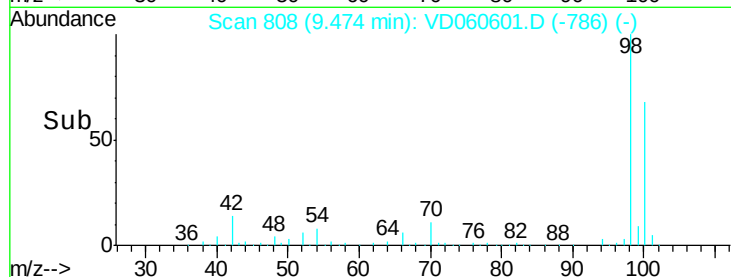
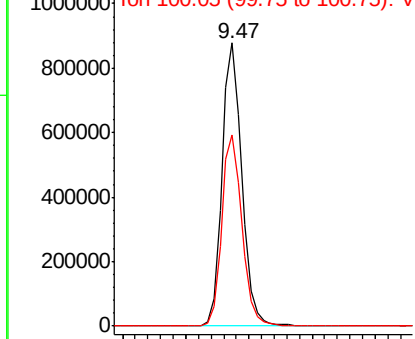
#50  
Toluene-d8  
Concen: N.D. ug/l  
RT: 9.47 min Scan# 808  
Delta R.T. 0.01 min  
Lab File: VD060601.D  
Acq: 17 Dec 2018 16:02

Instrument :  
MSVOA\_D  
ClientSampleId :  
EB12\_1.5-2.5

Tgt Ion: 98 Resp: 1926620  
Ion Ratio Lower Upper  
98 100  
100 67.5 55.7 83.5

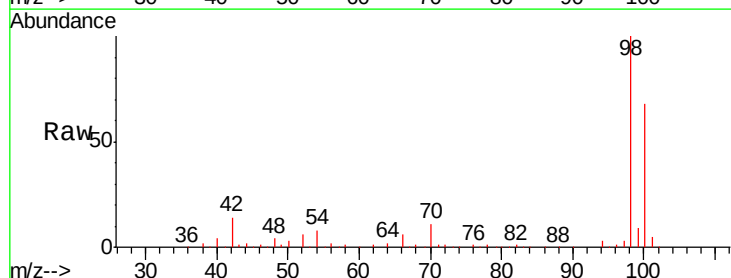


Abundance Ion 98.05 (97.75 to 98.75): VDC  
Ion 100.05 (99.75 to 100.75): VDC

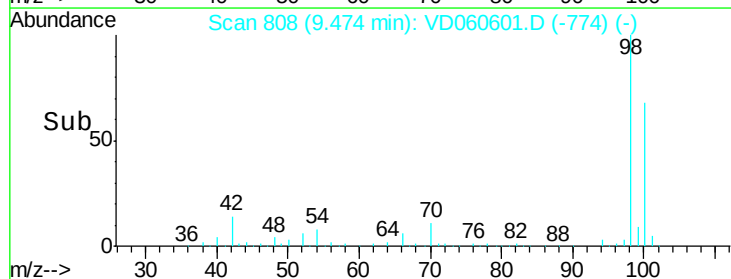
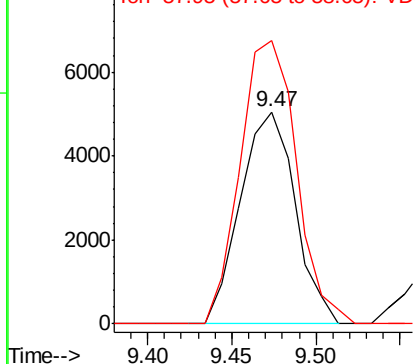


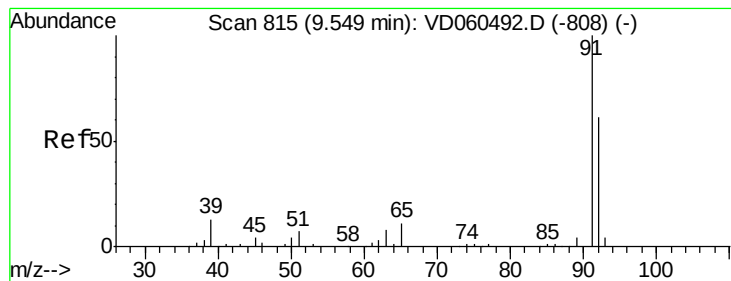
#51  
4-Methyl-2-Pentanone  
Concen: 1.823 ug/l  
RT: 9.47 min Scan# 808  
Delta R.T. 0.13 min  
Lab File: VD060601.D  
Acq: 17 Dec 2018 16:02

Tgt Ion: 43 Resp: 11403  
Ion Ratio Lower Upper  
43 100  
58 133.4 26.3 39.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC  
Ion 57.95 (57.65 to 58.65): VDC





#52

Toluene

Concen: 4.225 ug/l

RT: 9.56 min Scan# 817

Delta R.T. 0.01 min

Lab File: VD060601.D

Acq: 17 Dec 2018 16:02

Instrument :

MSVOA\_D

ClientSampleId :

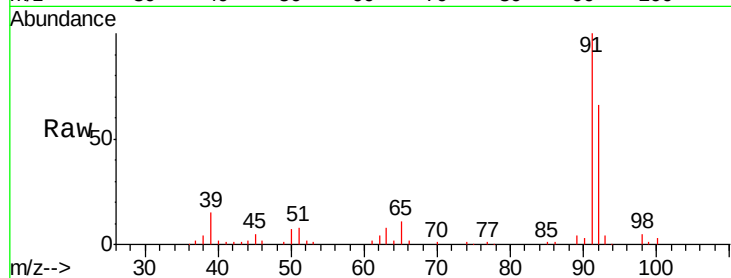
EB12\_1.5-2.5

Tgt Ion: 92 Resp: 126769

Ion Ratio Lower Upper

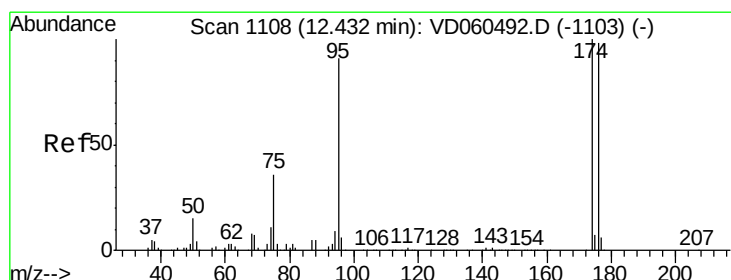
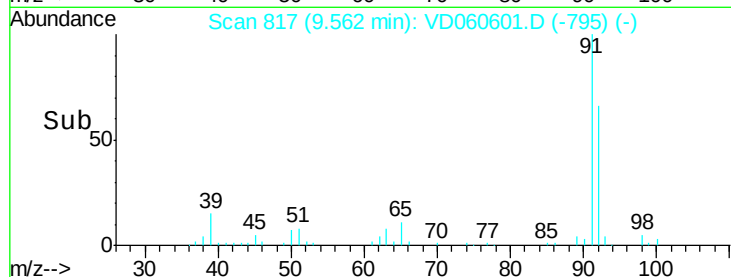
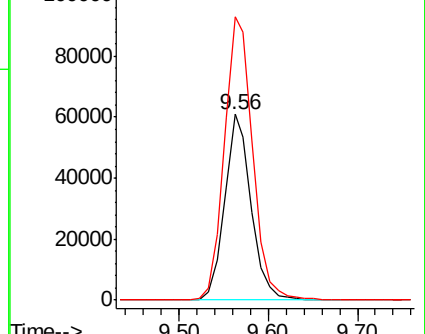
92 100

91 152.3 131.7 197.5



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.44 min Scan# 1109

Delta R.T. 0.00 min

Lab File: VD060601.D

Acq: 17 Dec 2018 16:02

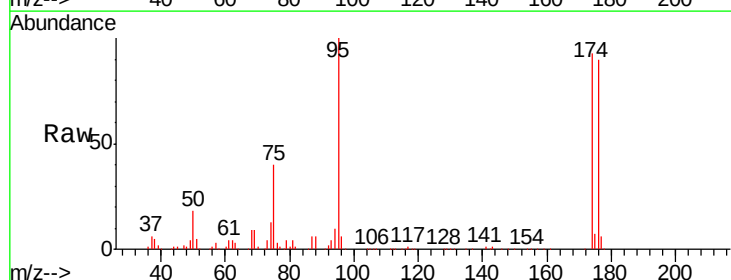
Tgt Ion: 95 Resp: 646565

Ion Ratio Lower Upper

95 100

174 93.3 0.0 219.4

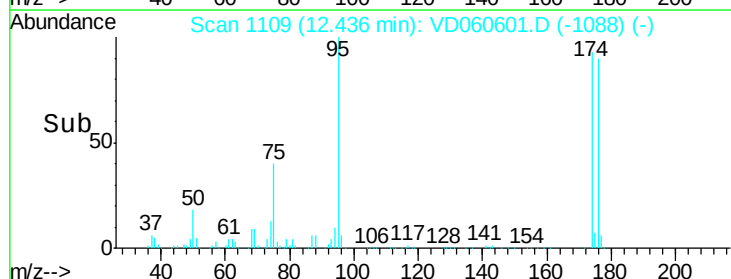
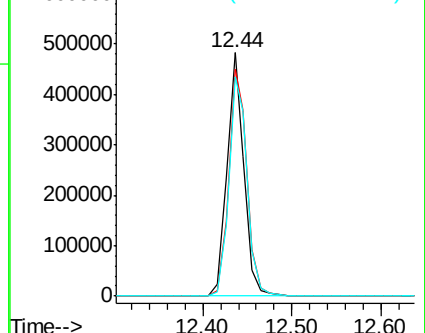
176 89.9 0.0 214.6



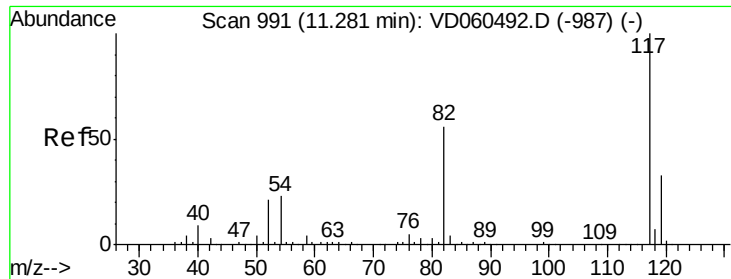
Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



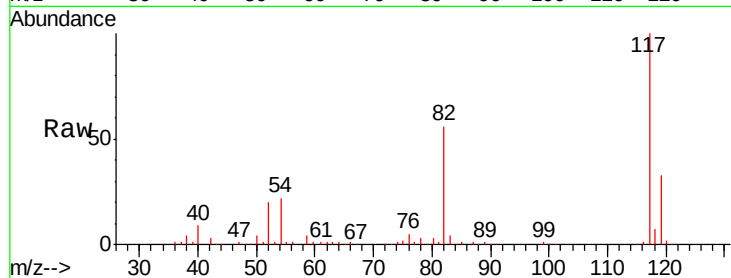




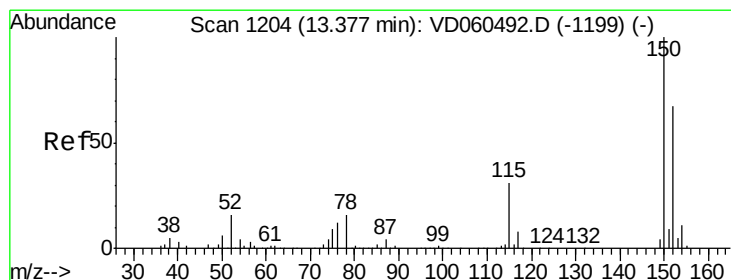
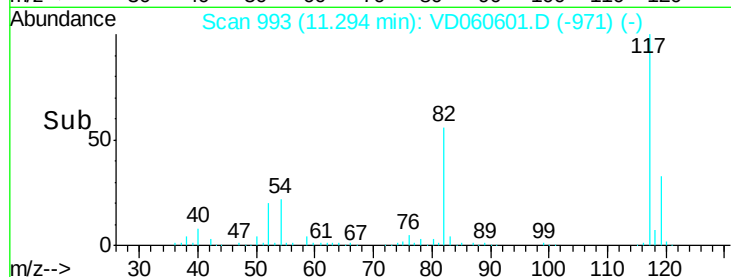
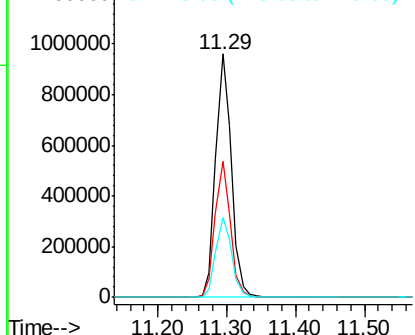
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.29 min Scan# 993  
Delta R.T. 0.01 min  
Lab File: VD060601.D  
Acq: 17 Dec 2018 16:02

Instrument :  
MSVOA\_D  
ClientSampleId :  
EB12\_1.5-2.5

Tgt Ion:117 Resp: 1519443  
Ion Ratio Lower Upper  
117 100  
82 55.8 45.2 67.8  
119 33.0 26.1 39.1

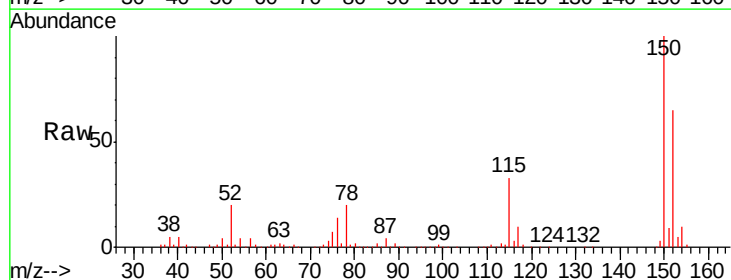


Abundance Ion 116.95 (116.65 to 117.65): V  
Ion 82.05 (81.75 to 82.75): V  
Ion 118.95 (118.65 to 119.65): V

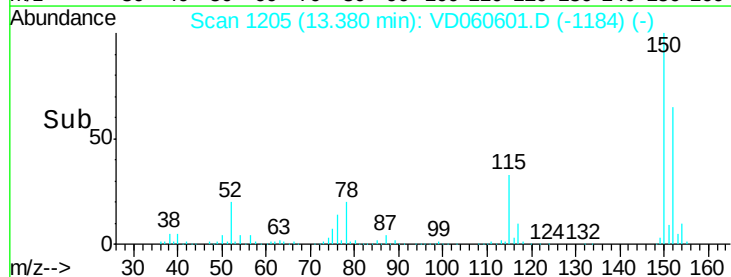
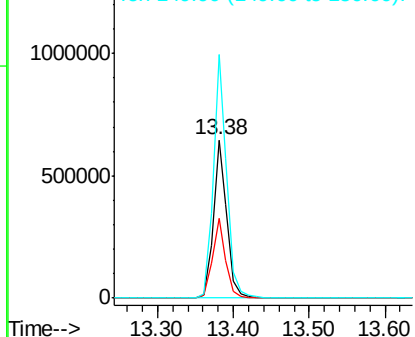


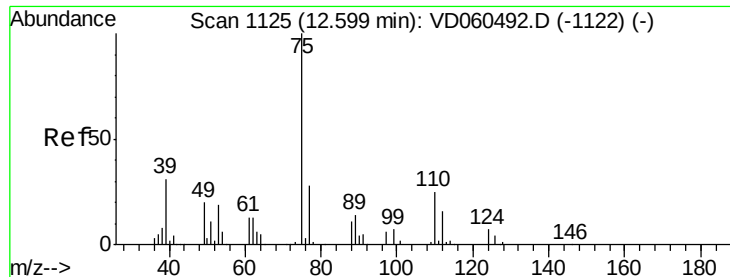
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.38 min Scan# 1205  
Delta R.T. 0.00 min  
Lab File: VD060601.D  
Acq: 17 Dec 2018 16:02

Tgt Ion:152 Resp: 806993  
Ion Ratio Lower Upper  
152 100  
115 50.9 24.6 74.0  
150 154.2 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





#76

1,2,3-Trichloropropane

Concen: 28.236 ug/l

RT: 12.44 min Scan# 1109

Delta R.T. -0.16 min

Lab File: VD060601.D

Acq: 17 Dec 2018 16:02

Instrument :

MSVOA\_D

ClientSampleId :

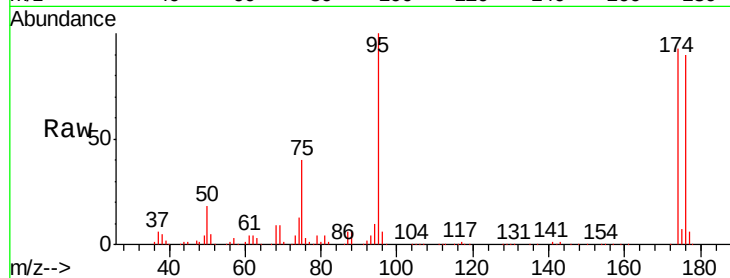
EB12\_1.5-2.5

Tgt Ion: 75 Resp: 258186

Ion Ratio Lower Upper

75 100

77 1.4 16.4 49.4#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

12.44

200000

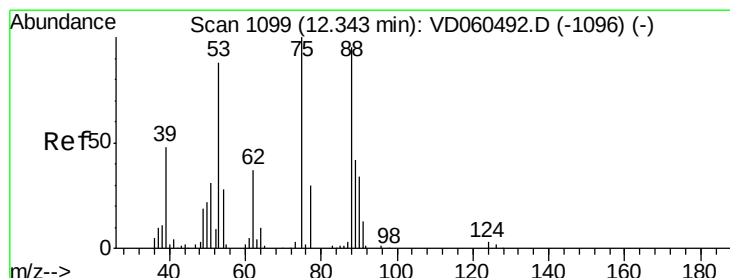
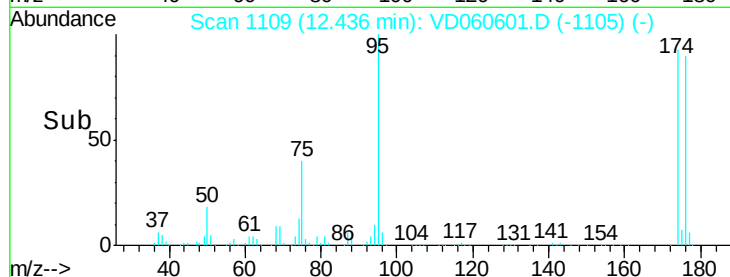
150000

100000

50000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 104.207 ug/l

RT: 12.44 min Scan# 1109

Delta R.T. 0.09 min

Lab File: VD060601.D

Acq: 17 Dec 2018 16:02

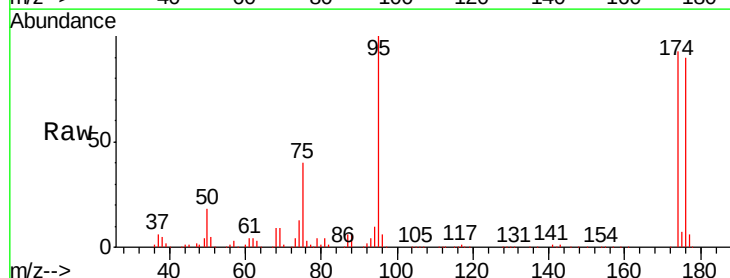
Tgt Ion: 75 Resp: 265751

Ion Ratio Lower Upper

75 100

53 0.0 70.5 105.7#

89 0.0 33.6 50.4#



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

12.44

250000

200000

150000

100000

50000

0

Time-->

