

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_D\DATA\VD091718\  
 Data File : VD060034.D  
 Acq On : 17 Sep 2018 21:16  
 Operator : JC/SY  
 Sample : J4935-01RE  
 Misc : 1.49g/5ml/MSVOA\_D/SOIL  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 PHASE-1RE

Quant Time: Sep 18 04:41:50 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D091318S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 13 16:17:40 2018  
 Response via : Initial Calibration

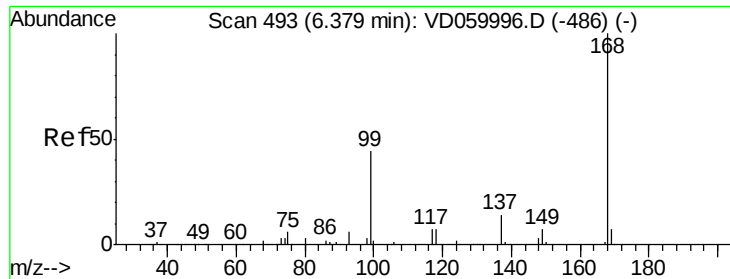
| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 6.40  | 168  | 899677   | 50.00 | ug/l  | 0.02     |
| 34) 1,4-Difluorobenzene    | 7.44  | 114  | 1414231  | 50.00 | ug/l  | 0.01     |
| 63) Chlorobenzene-d5       | 11.28 | 117  | 1164437  | 50.00 | ug/l  | 0.01     |
| 72) 1,4-Dichlorobenzene-d4 | 13.37 | 152  | 566214   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.78  | 65   | 417038   | 59.44 | ug/l    | 0.01     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 118.88% |          |
| 35) Dibromofluoromethane    | 6.31  | 113  | 486745   | 44.05 | ug/l    | 0.01     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 88.10%  |          |
| 50) Toluene-d8              | 9.45  | 98   | 1230452  | 40.18 | ug/l    | 0.01     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 80.36%  |          |
| 62) 4-Bromofluorobenzene    | 12.43 | 95   | 467381   | 39.95 | ug/l    | 0.01     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 79.90%  |          |

| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 16) Acetone                    | 3.15  | 43   | 44711    | 33.007    | ug/l   | 99     |
| 18) Methyl Acetate             | 3.54  | 43   | 4245     | 1.541     | ug/l # | 64     |
| 20) Methylene Chloride         | 3.71  | 84   | 95085    | 3.105     | ug/l   | 97     |
| 29) Tetrahydrofuran            | 5.94  | 42   | 2491     | 1.271     | ug/l # | 67     |
| 31) Cyclohexane                | 6.40  | 56   | 17837    | 1.145     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 6.40  | 75   | 66812    | 4.756     | ug/l # | 45     |
| 38) Carbon Tetrachloride       | 6.39  | 117  | 72134    | 5.501     | ug/l # | 16     |
| 51) 4-Methyl-2-Pentanone       | 9.45  | 43   | 7643     | Below Cal | #      | 1      |
| 52) Toluene                    | 9.55  | 92   | 52964    | 2.308     | ug/l   | 97     |
| 59) 2-Hexanone                 | 10.61 | 43   | 189      | Below Cal | #      | 30     |
| 76) 1,2,3-Trichloropropane     | 12.43 | 75   | 192423   | 22.252    | ug/l # | 44     |
| 81) trans-1,4-Dichloro-2-buten | 12.43 | 75   | 196807   | 75.393    | ug/l # | 15     |
| 89) n-Butylbenzene             | 13.65 | 91   | 887      | Below Cal | #      | 79     |
| 91) 1,2-Dichlorobenzene        | 13.67 | 146  | 270      | Below Cal | #      | 63     |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.40 min Scan# 496

Delta R.T. 0.02 min

Lab File: VD060034.D

Acq: 17 Sep 2018 21:16

Instrument :

MSVOA\_D

ClientSampleId :

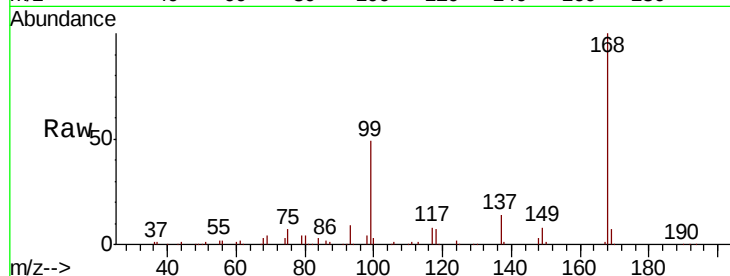
PHASE-1RE

Tgt Ion:168 Resp: 899677

Ion Ratio Lower Upper

168 100

99 49.1 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.40

400000

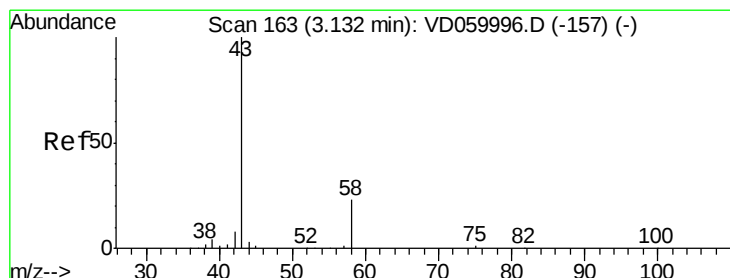
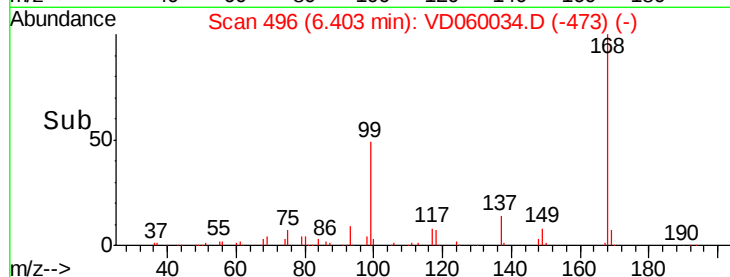
300000

200000

100000

0

Time-->



#16

Acetone

Concen: 33.007 ug/l

RT: 3.15 min Scan# 165

Delta R.T. 0.01 min

Lab File: VD060034.D

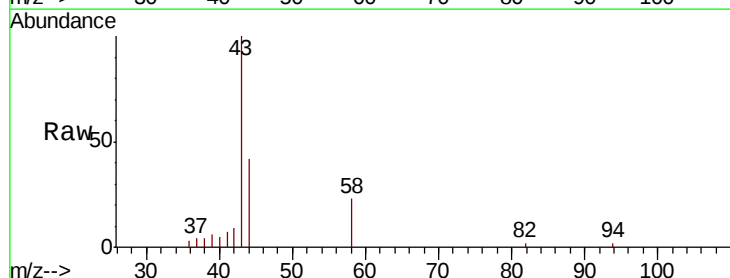
Acq: 17 Sep 2018 21:16

Tgt Ion: 43 Resp: 44711

Ion Ratio Lower Upper

43 100

58 23.0 18.1 27.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

3.15

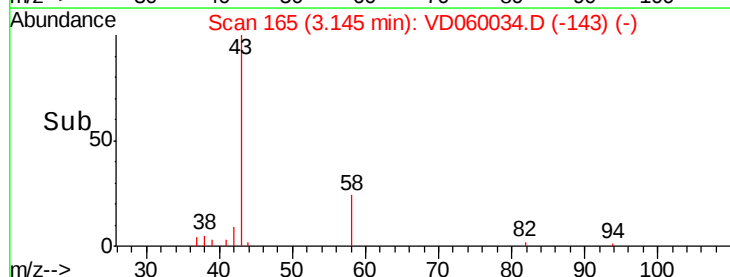
15000

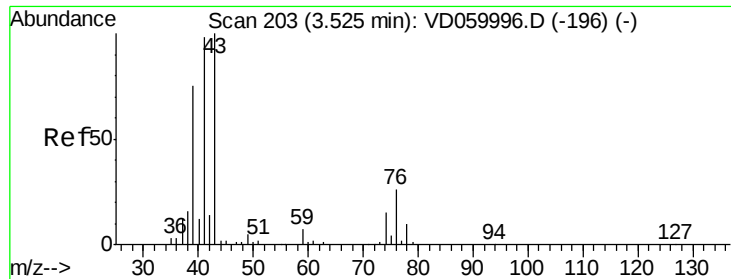
10000

5000

0

Time-->

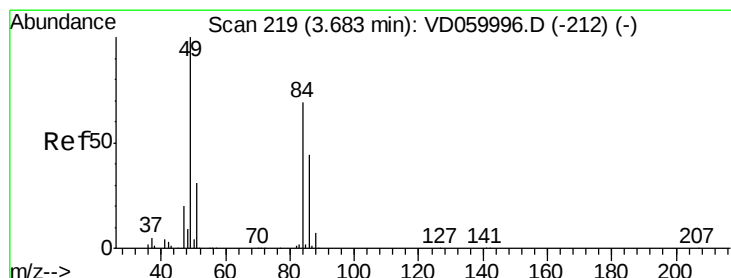
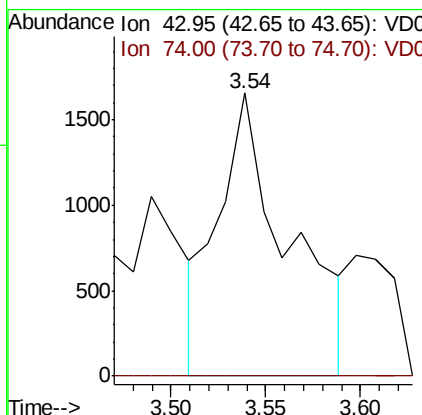
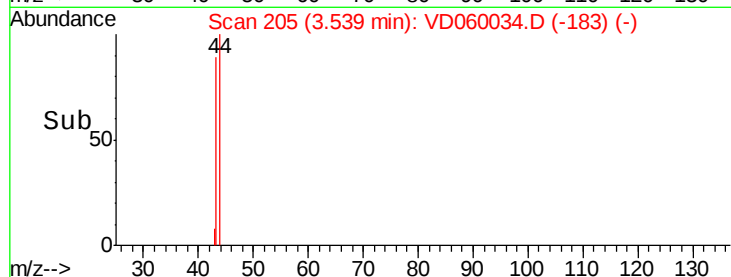
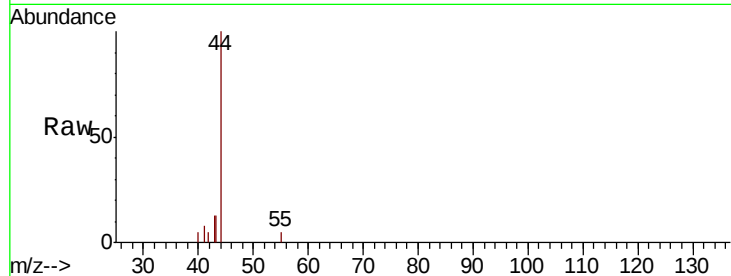




#18  
Methyl Acetate  
Concen: 1.541 ug/l  
RT: 3.54 min Scan# 205  
Delta R.T. 0.01 min  
Lab File: VD060034.D  
Acq: 17 Sep 2018 21:16

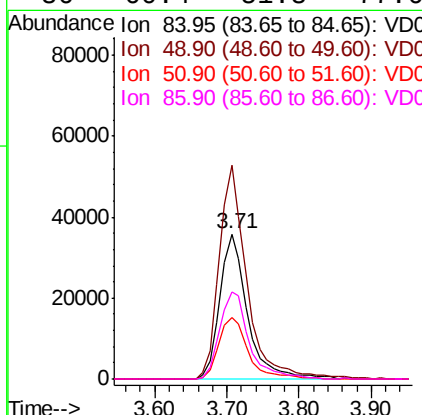
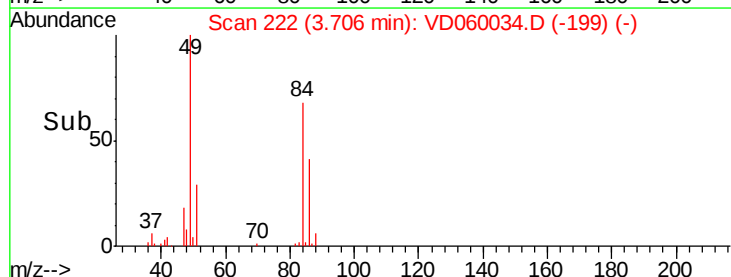
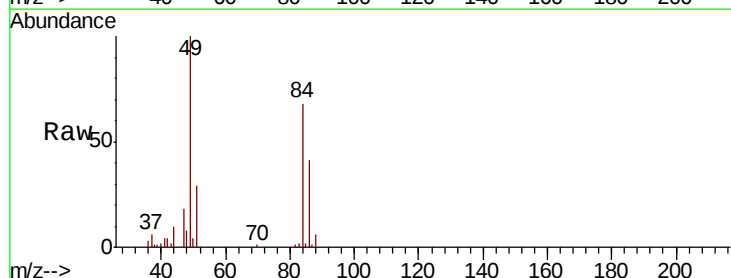
Instrument :  
MSVOA\_D  
ClientSampleId :  
PHASE-1RE

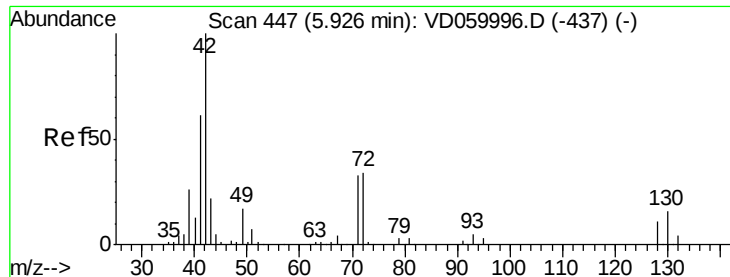
Tgt Ion: 43 Resp: 4245  
Ion Ratio Lower Upper  
43 100  
74 0.0 11.8 17.8#



#20  
Methylene Chloride  
Concen: 3.105 ug/l  
RT: 3.71 min Scan# 222  
Delta R.T. 0.02 min  
Lab File: VD060034.D  
Acq: 17 Sep 2018 21:16

Tgt Ion: 84 Resp: 95085  
Ion Ratio Lower Upper  
84 100  
49 147.4 116.6 175.0  
51 42.2 35.9 53.9  
86 60.4 51.8 77.6





#29

Tetrahydrofuran

Concen: 1.271 ug/l

RT: 5.94 min Scan# 449

Delta R.T. 0.01 min

Lab File: VD060034.D

Acq: 17 Sep 2018 21:16

Instrument :

MSVOA\_D

ClientSampleId :

PHASE-1RE

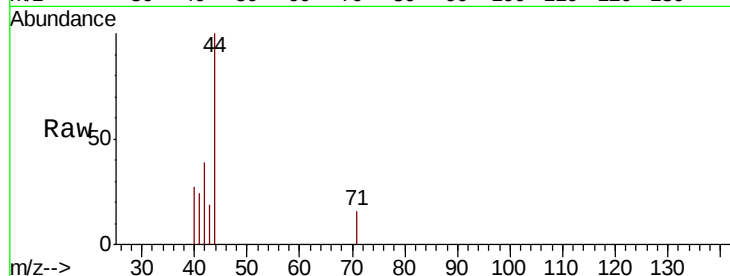
Tgt Ion: 42 Resp: 2491

Ion Ratio Lower Upper

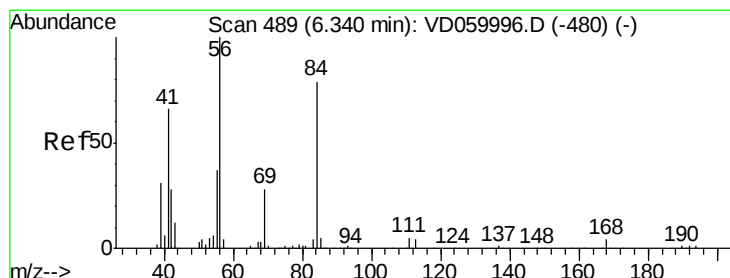
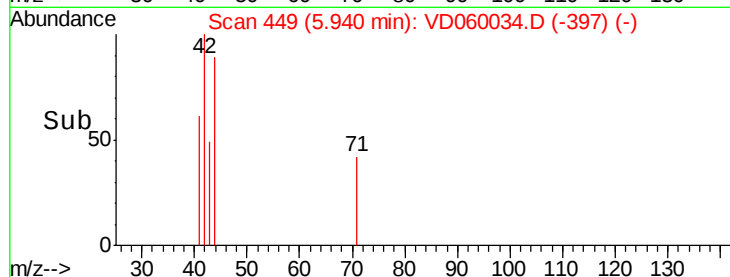
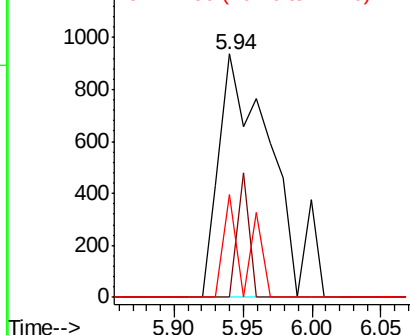
42 100

72 11.4 26.9 40.3#

71 17.1 26.2 39.4#



Abundance Ion 42.00 (41.70 to 42.70): VDC  
Ion 72.00 (71.70 to 72.70): VDC  
Ion 71.00 (70.70 to 71.70): VDC



#31

Cyclohexane

Concen: 1.145 ug/l

RT: 6.40 min Scan# 496

Delta R.T. 0.06 min

Lab File: VD060034.D

Acq: 17 Sep 2018 21:16

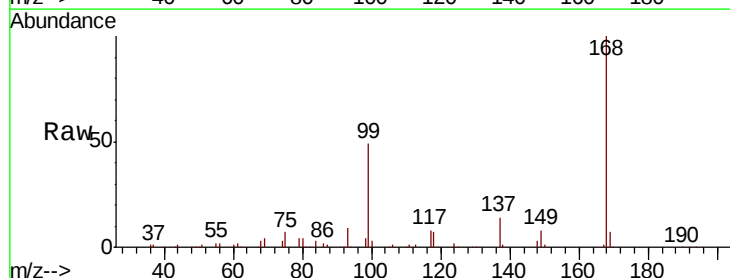
Tgt Ion: 56 Resp: 17837

Ion Ratio Lower Upper

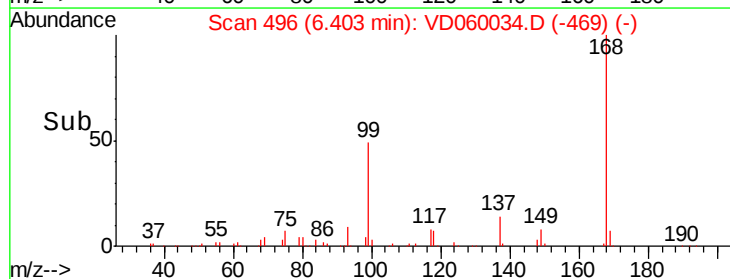
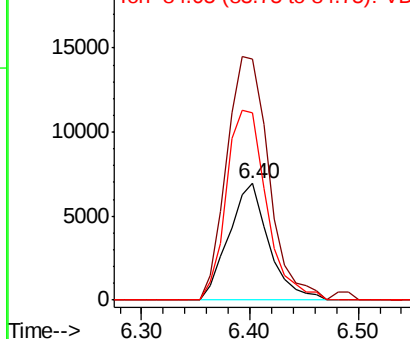
56 100

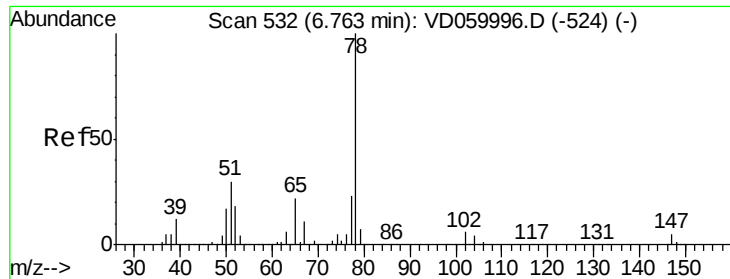
69 206.6 22.7 34.1#

84 161.0 64.0 96.0#



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: 6.78 min Scan# 534

Delta R.T. 0.01 min

Lab File: VD060034.D

Acq: 17 Sep 2018 21:16

Instrument :

MSVOA\_D

ClientSampleId :

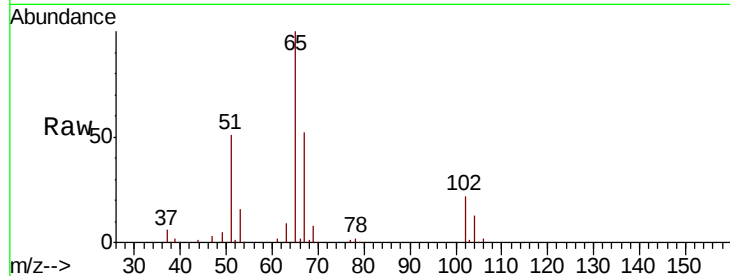
PHASE-1RE

Tgt Ion: 65 Resp: 417038

Ion Ratio Lower Upper

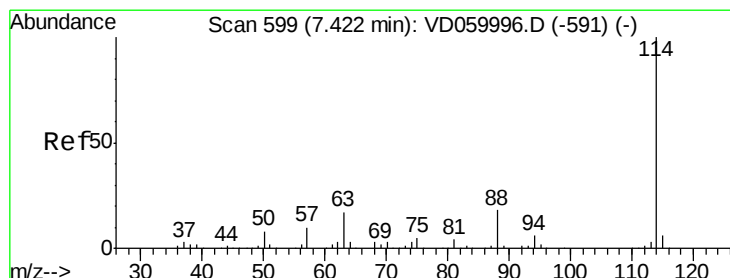
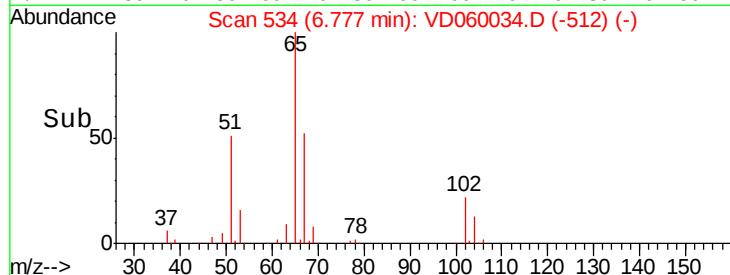
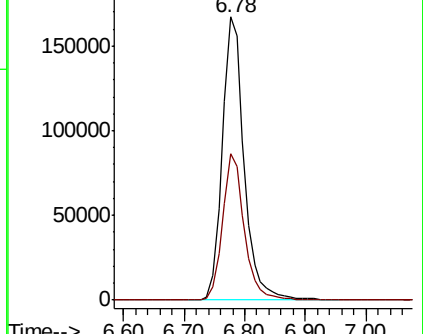
65 100

67 51.7 0.0 104.8



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: 7.44 min Scan# 601

Delta R.T. 0.01 min

Lab File: VD060034.D

Acq: 17 Sep 2018 21:16

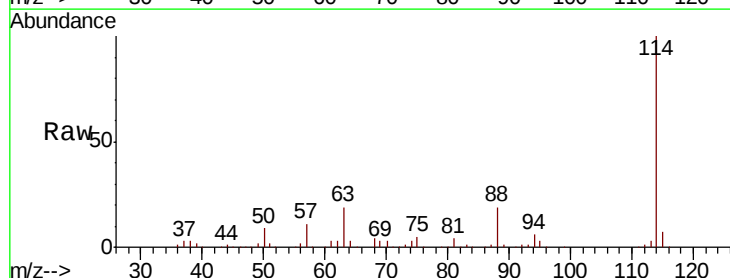
Tgt Ion: 114 Resp: 1414231

Ion Ratio Lower Upper

114 100

63 18.9 0.0 34.4

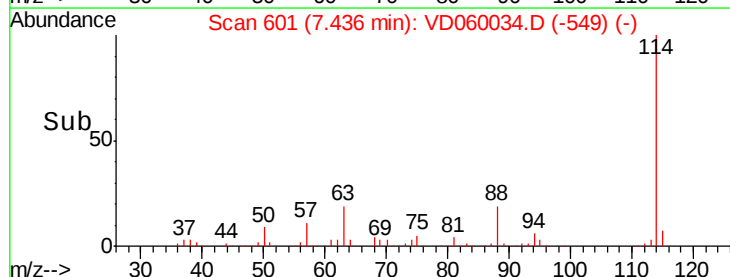
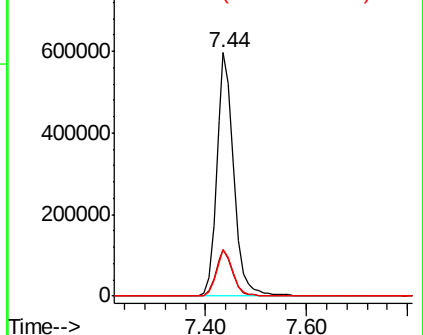
88 19.0 0.0 35.8

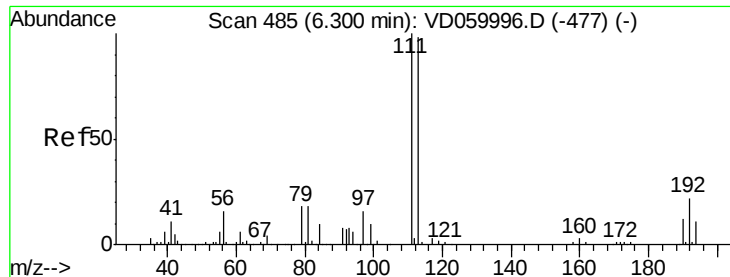


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

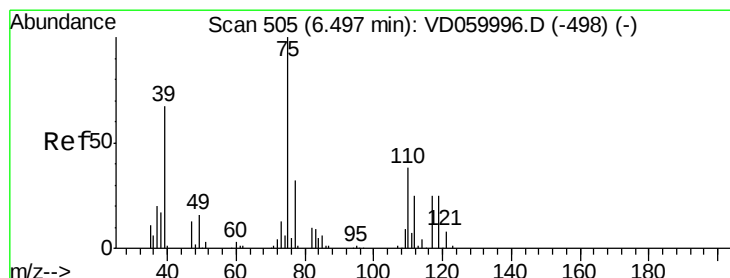
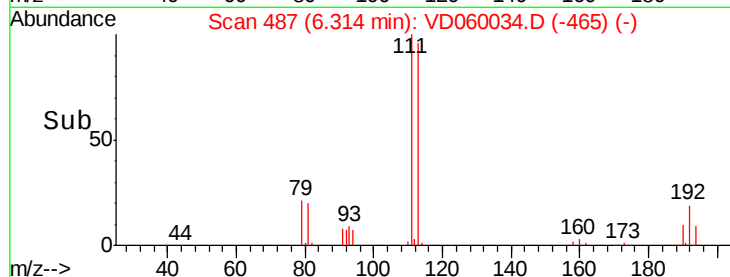
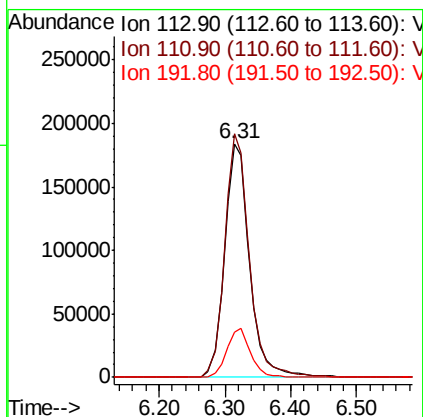
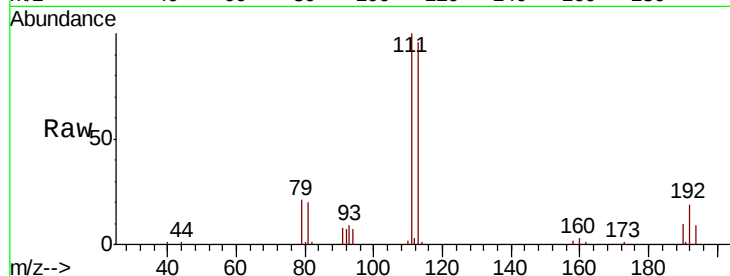




#35  
 Dibromofluoromethane  
 Concen: 50.000 ug/l  
 RT: 6.31 min Scan# 487  
 Delta R.T. 0.01 min  
 Lab File: VD060034.D  
 Acq: 17 Sep 2018 21:16

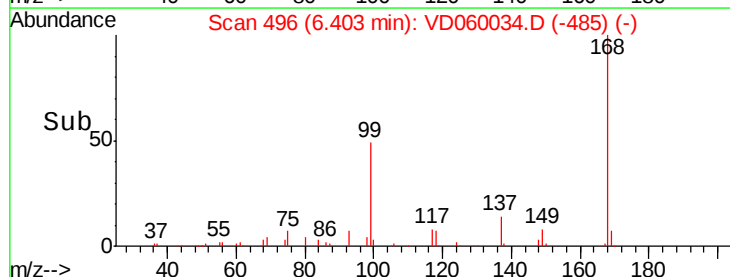
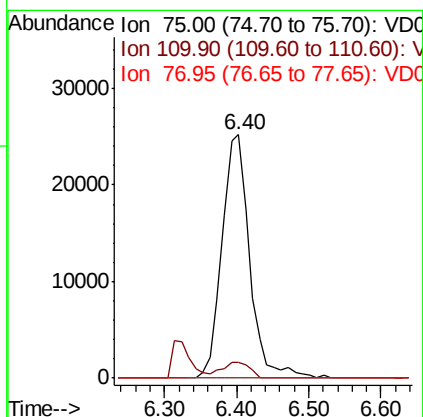
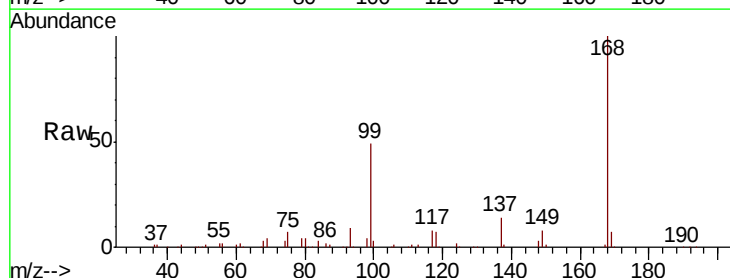
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 PHASE-1RE

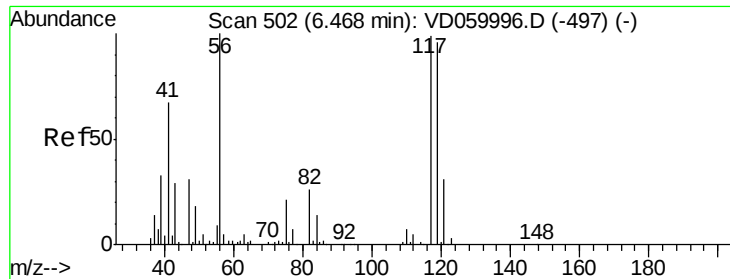
Tgt Ion:113 Resp: 486745  
 Ion Ratio Lower Upper  
 113 100  
 111 104.3 81.3 121.9  
 192 19.4 18.1 27.1



#36  
 1,1-Dichloropropene  
 Concen: 4.756 ug/l  
 RT: 6.40 min Scan# 496  
 Delta R.T. -0.09 min  
 Lab File: VD060034.D  
 Acq: 17 Sep 2018 21:16

Tgt Ion: 75 Resp: 66812  
 Ion Ratio Lower Upper  
 75 100  
 110 6.3 18.9 56.9#  
 77 0.0 25.3 37.9#

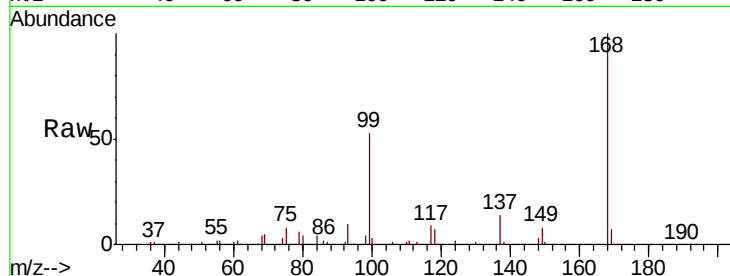




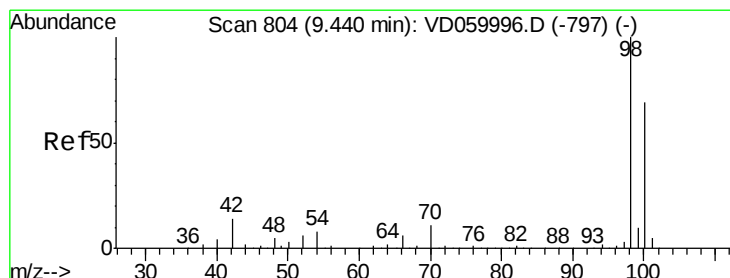
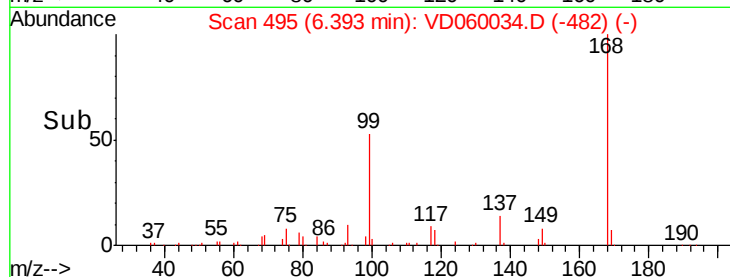
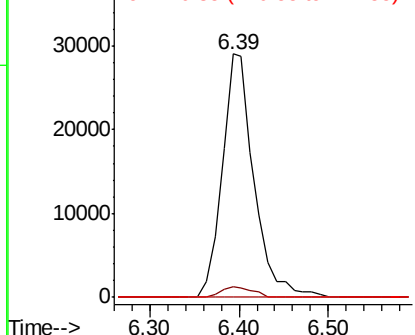
#38  
Carbon Tetrachloride  
Concen: 5.501 ug/l  
RT: 6.39 min Scan# 495  
Delta R.T. -0.07 min  
Lab File: VD060034.D  
Acq: 17 Sep 2018 21:16

Instrument :  
MSVOA\_D  
ClientSampleId :  
PHASE-1RE

Tgt Ion:117 Resp: 72134  
Ion Ratio Lower Upper  
117 100  
119 4.6 76.7 115.1#  
121 0.0 24.9 37.3#

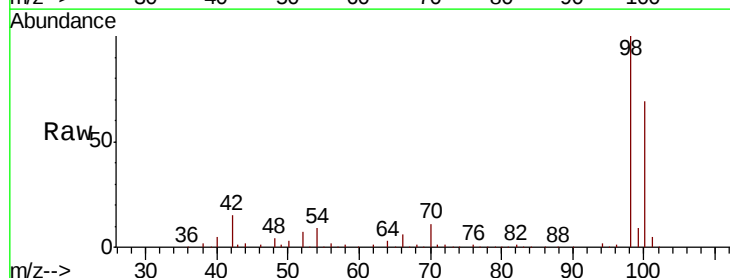


Abundance Ion 116.85 (116.55 to 117.55): V  
Ion 118.85 (118.55 to 119.55): V  
Ion 120.85 (120.55 to 121.55): V

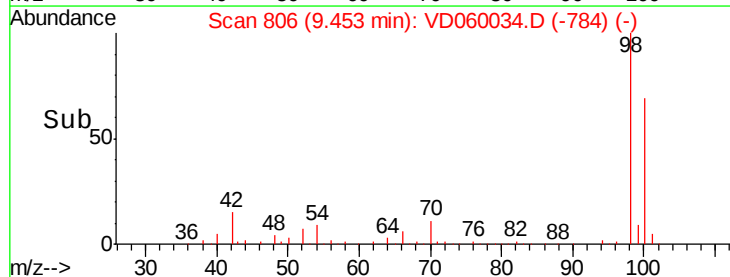
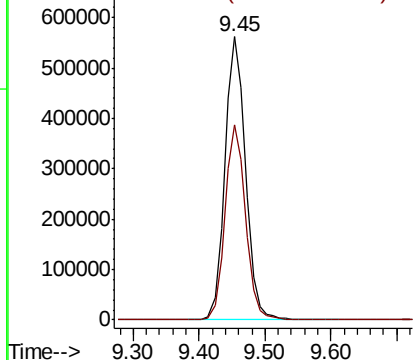


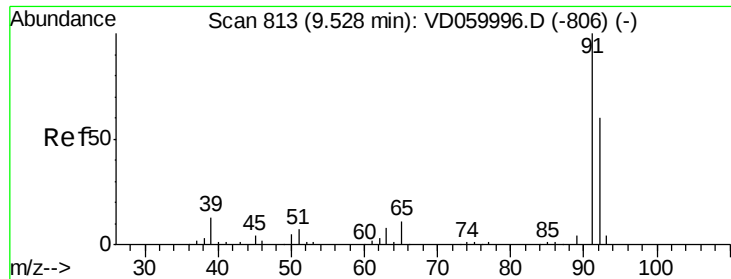
#50  
Toluene-d8  
Concen: N.D. ug/l  
RT: 9.45 min Scan# 806  
Delta R.T. 0.01 min  
Lab File: VD060034.D  
Acq: 17 Sep 2018 21:16

Tgt Ion: 98 Resp: 1230452  
Ion Ratio Lower Upper  
98 100  
100 69.0 55.8 83.6



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





#52

Toluene

Concen: 2.308 ug/l

RT: 9.55 min Scan# 816

Delta R.T. 0.02 min

Lab File: VD060034.D

Acq: 17 Sep 2018 21:16

Instrument :

MSVOA\_D

ClientSampleId :

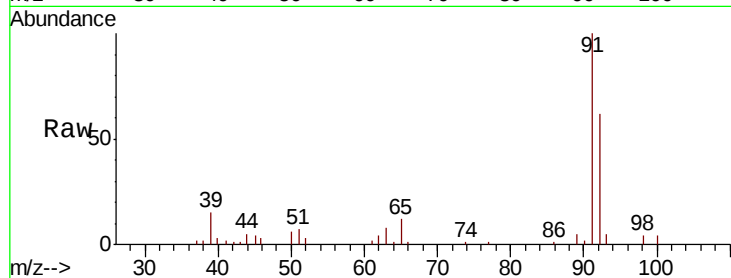
PHASE-1RE

Tgt Ion: 92 Resp: 52964

Ion Ratio Lower Upper

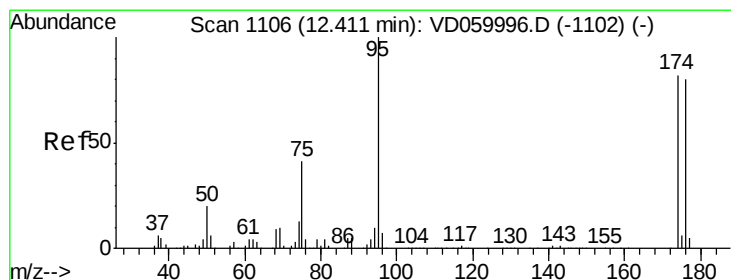
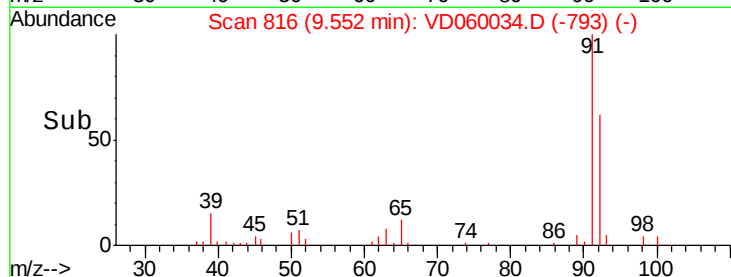
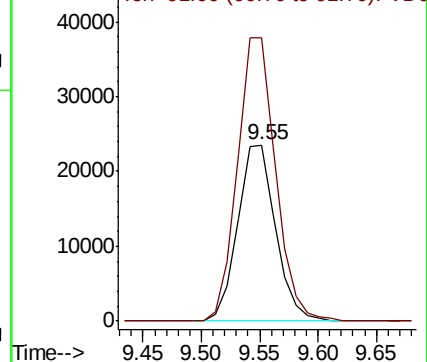
92 100

91 160.9 132.3 198.5



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: 12.43 min Scan# 1108

Delta R.T. 0.01 min

Lab File: VD060034.D

Acq: 17 Sep 2018 21:16

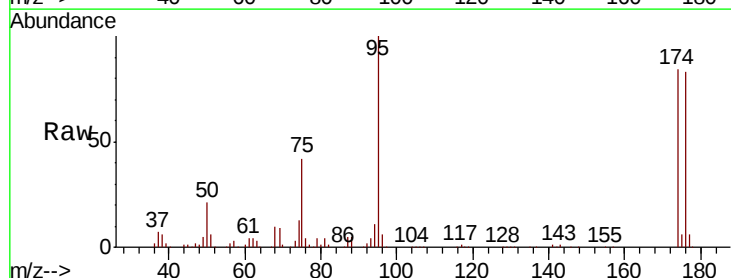
Tgt Ion: 95 Resp: 467381

Ion Ratio Lower Upper

95 100

174 84.3 0.0 165.0

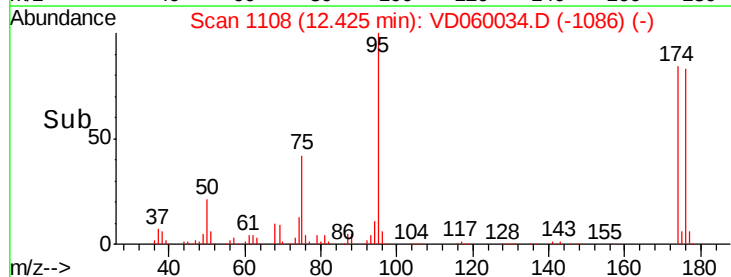
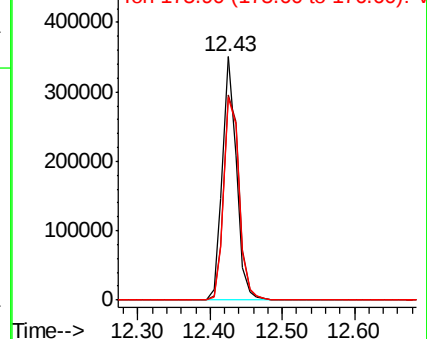
176 83.1 0.0 160.2

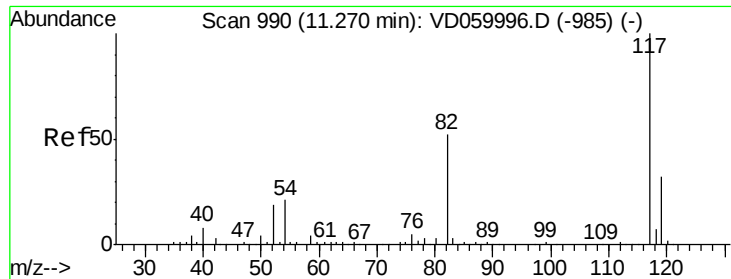


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

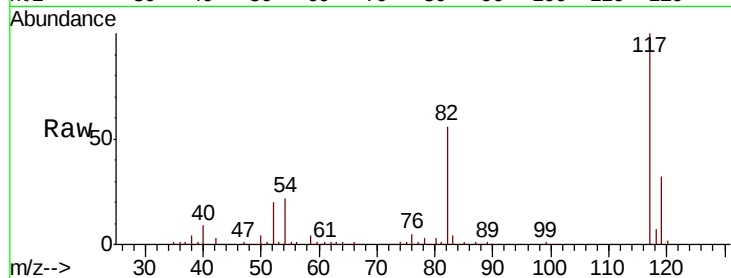




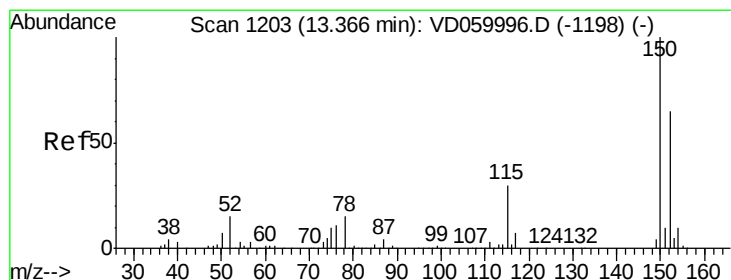
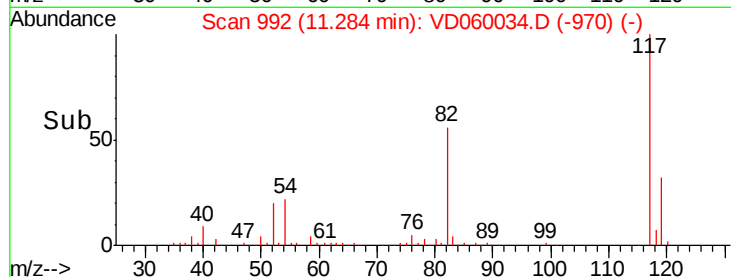
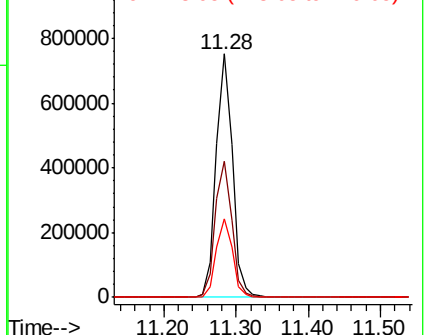
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.28 min Scan# 992  
Delta R.T. 0.01 min  
Lab File: VD060034.D  
Acq: 17 Sep 2018 21:16

Instrument :  
MSVOA\_D  
ClientSampleId :  
PHASE-1RE

Tgt Ion:117 Resp: 1164437  
Ion Ratio Lower Upper  
117 100  
82 55.7 41.7 62.5  
119 32.1 26.0 39.0

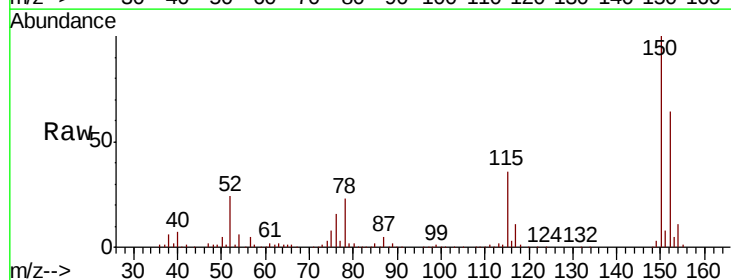


Abundance Ion 116.95 (116.65 to 117.65): V  
Ion 82.05 (81.75 to 82.75): V  
Ion 118.95 (118.65 to 119.65): V

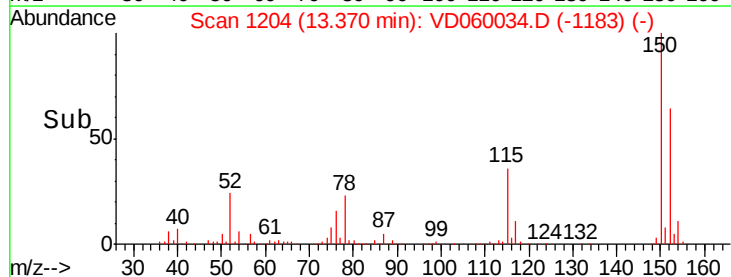
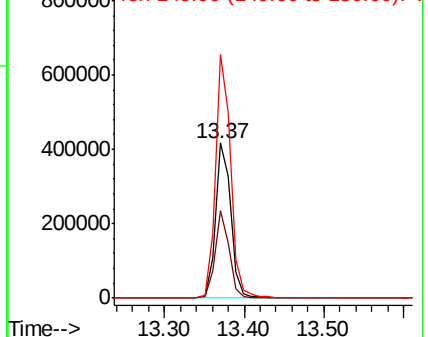


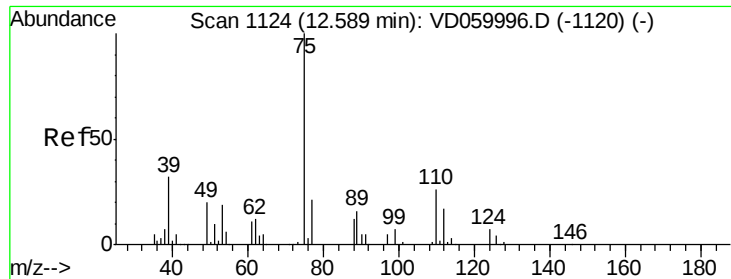
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.37 min Scan# 1204  
Delta R.T. 0.00 min  
Lab File: VD060034.D  
Acq: 17 Sep 2018 21:16

Tgt Ion:152 Resp: 566214  
Ion Ratio Lower Upper  
152 100  
115 56.0 24.6 73.8  
150 157.0 0.0 313.4



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: 22.252 ug/l

RT: 12.43 min Scan# 1108

Delta R.T. -0.16 min

Lab File: VD060034.D

Acq: 17 Sep 2018 21:16

Instrument :

MSVOA\_D

ClientSampleId :

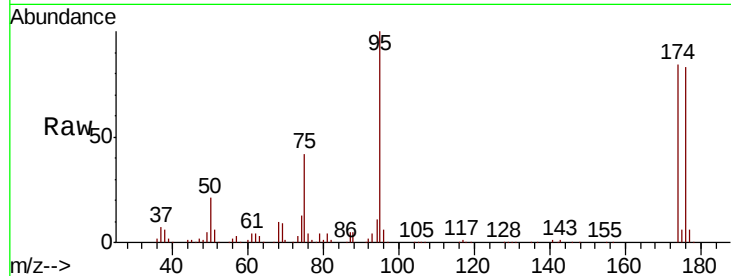
PHASE-1RE

Tgt Ion: 75 Resp: 192423

Ion Ratio Lower Upper

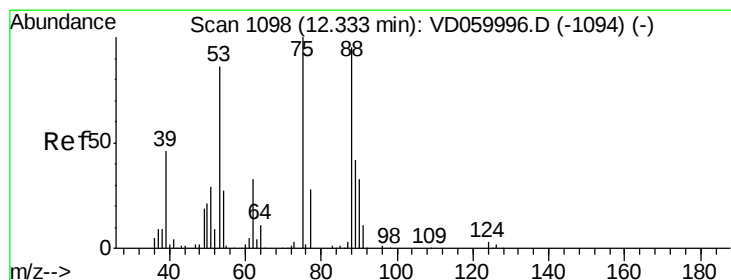
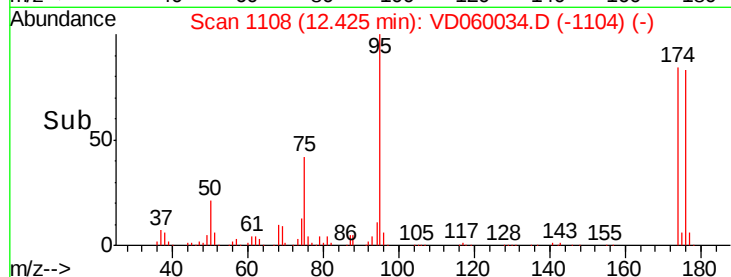
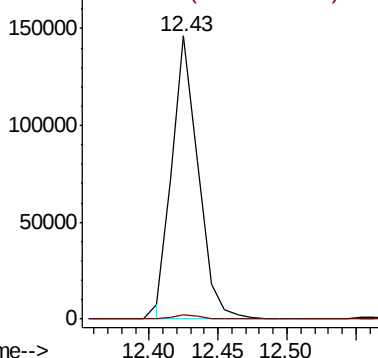
75 100

77 1.5 16.4 49.4#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 75.393 ug/l

RT: 12.43 min Scan# 1108

Delta R.T. 0.09 min

Lab File: VD060034.D

Acq: 17 Sep 2018 21:16

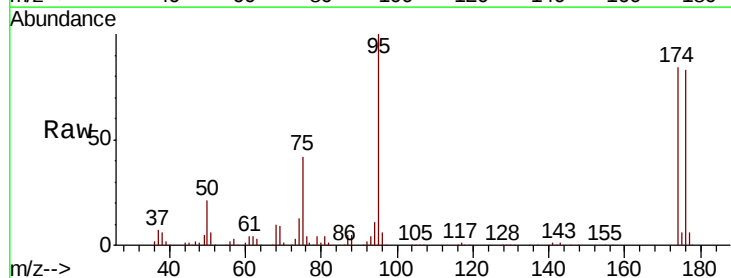
Tgt Ion: 75 Resp: 196807

Ion Ratio Lower Upper

75 100

53 0.0 68.4 102.6#

89 0.0 33.8 50.6#



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

