

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD090518\  
 Data File : VD059974.D  
 Acq On : 5 Sep 2018 17:33  
 Operator : JC/SY  
 Sample : J4724-14  
 Misc : 5.61g/5ml/MSVOA D/SOIL  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 EP1-SUT-8USTS-W

Quant Time: Sep 05 18:13:42 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D082218S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Aug 23 03:03:08 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 6.38  | 168  | 1408126  | 50.00 | ug/l  | -0.03    |
| 34) 1,4-Difluorobenzene    | 7.42  | 114  | 1944398  | 50.00 | ug/l  | -0.02    |
| 63) Chlorobenzene-d5       | 11.27 | 117  | 1395154  | 50.00 | ug/l  | -0.02    |
| 72) 1,4-Dichlorobenzene-d4 | 13.36 | 152  | 758449   | 50.00 | ug/l  | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.76  | 65   | 611883   | 51.56 | ug/l    | -0.03    |
| Spiked Amount               |       |      | Recovery | =     | 103.12% |          |
| 35) Dibromofluoromethane    | 6.30  | 113  | 783758   | 51.41 | ug/l    | -0.03    |
| Spiked Amount               |       |      | Recovery | =     | 102.82% |          |
| 50) Toluene-d8              | 9.44  | 98   | 1641448  | 38.80 | ug/l    | -0.02    |
| Spiked Amount               |       |      | Recovery | =     | 77.60%  |          |
| 62) 4-Bromofluorobenzene    | 12.42 | 95   | 737720   | 42.93 | ug/l    | -0.01    |
| Spiked Amount               |       |      | Recovery | =     | 85.86%  |          |

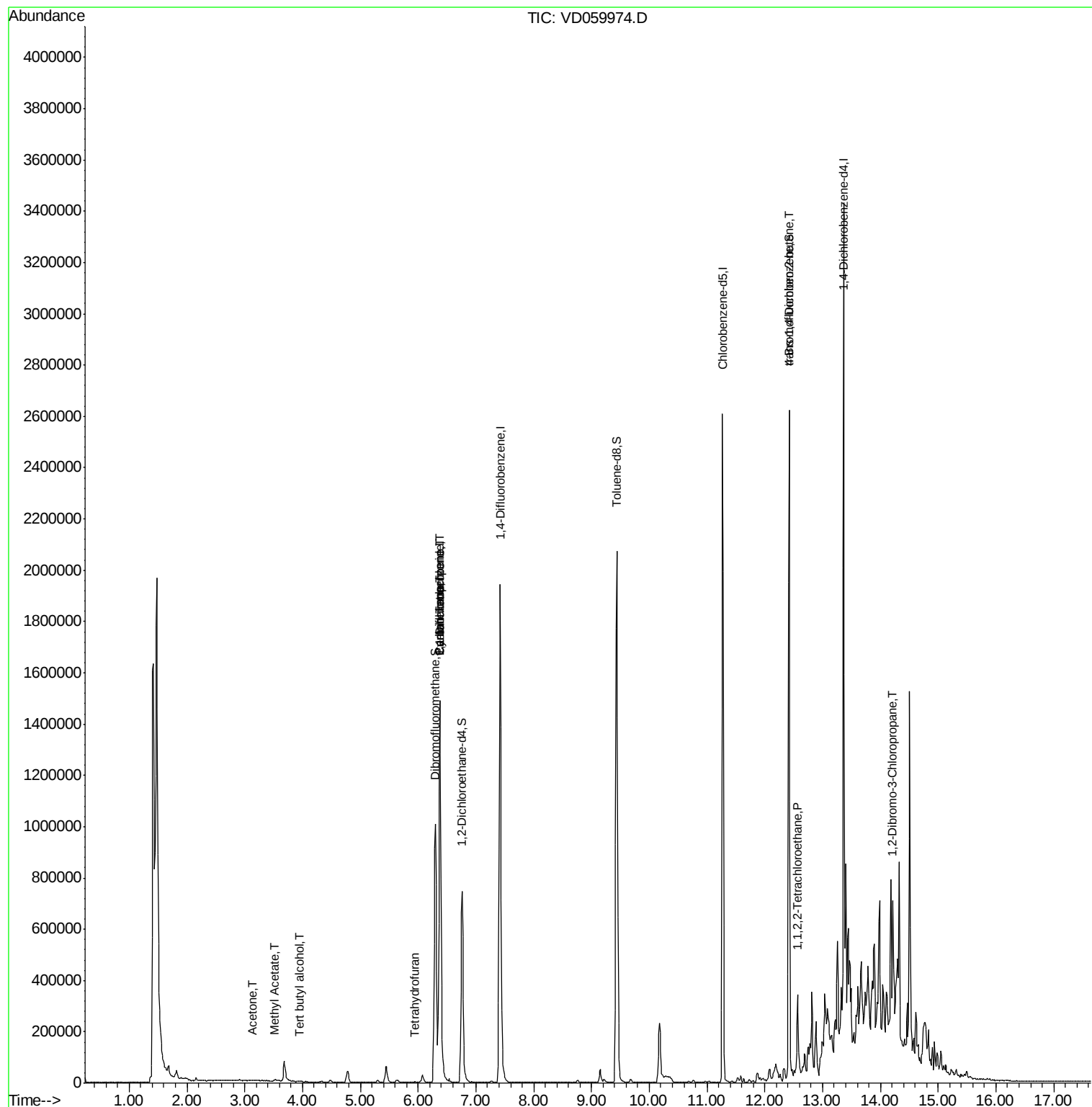
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 3.95  | 59   | 5657     | 6.247     | ug/l # | 75     |
| 16) Acetone                    | 3.13  | 43   | 8059     | 3.727     | ug/l # | 90     |
| 18) Methyl Acetate             | 3.52  | 43   | 12739    | 2.822     | ug/l # | 66     |
| 20) Methylene Chloride         | 3.68  | 84   | 41503    | Below Cal |        | 95     |
| 29) Tetrahydrofuran            | 5.92  | 42   | 3111     | 1.020     | ug/l # | 43     |
| 31) Cyclohexane                | 6.38  | 56   | 26350    | 1.166     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 6.38  | 75   | 100369   | 5.694     | ug/l # | 46     |
| 38) Carbon Tetrachloride       | 6.38  | 117  | 110268   | 6.199     | ug/l # | 16     |
| 75) 1,1,2,2-Tetrachloroethane  | 12.57 | 83   | 18145    | 1.620     | ug/l # | 48     |
| 81) trans-1,4-Dichloro-2-buten | 12.42 | 75   | 298382   | 81.373    | ug/l # | 12     |
| 89) n-Butylbenzene             | 13.68 | 91   | 3503     | Below Cal | #      | 48     |
| 92) 1,2-Dibromo-3-Chloropropan | 14.21 | 75   | 2088     | 1.213     | ug/l # | 1      |

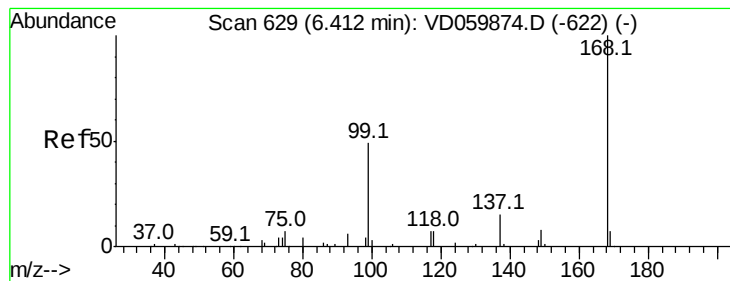
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD090518\  
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Quant Title : SW846 8260  
QLast Update : Thu Aug 23 03:03:08 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.38 min Scan# 625

Delta R.T. -0.03 min

Lab File: VD059974.D

Acq: 5 Sep 2018 17:33

Instrument :

MSVOA\_D

ClientSampleId :

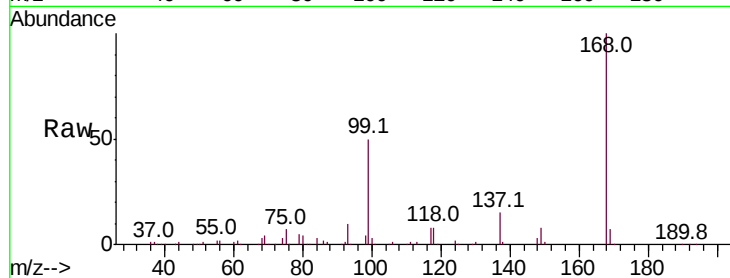
EP1-SUT-8USTS-W

Tot Ion:168 Resp: 1408126

Ion Ratio Lower Upper

168 100

99 50.1 42.2 63.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.38

500000

400000

300000

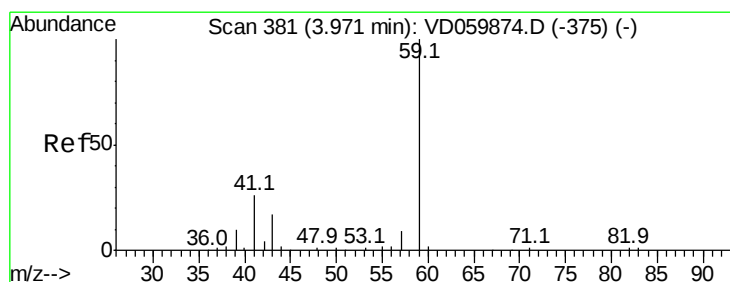
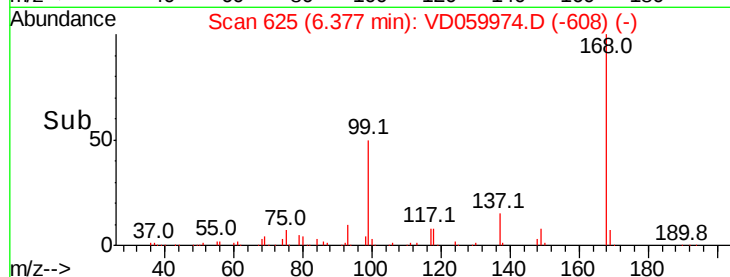
200000

100000

0

Time-->

6.20 6.30 6.40 6.50 6.60



#11

Tert butyl alcohol

Concen: 6.247 ug/l

RT: 3.95 min Scan# 378

Delta R.T. -0.02 min

Lab File: VD059974.D

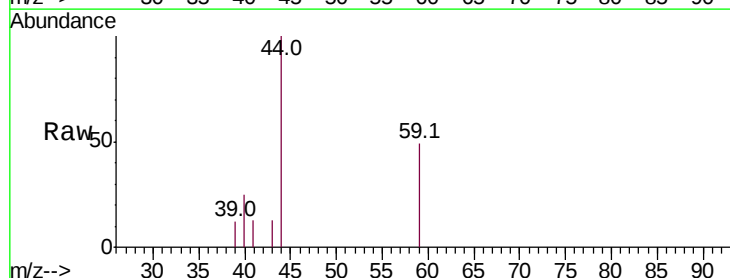
Acq: 5 Sep 2018 17:33

Tgt Ion: 59 Resp: 5657

Ion Ratio Lower Upper

59 100

57 0.0 7.4 11.0#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

3.95

2000

1500

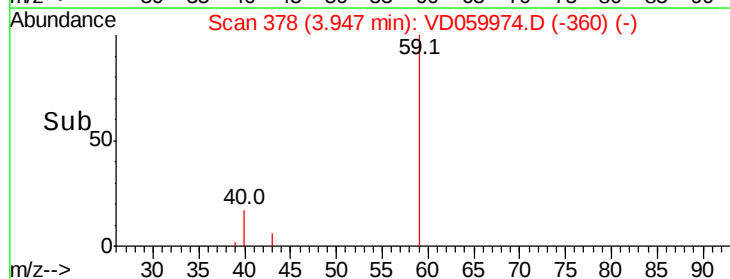
1000

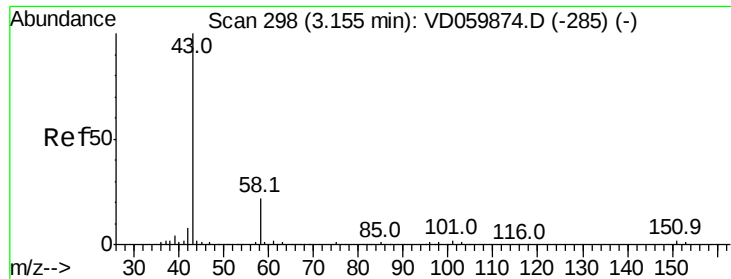
500

0

Time-->

3.85 3.90 3.95 4.00 4.05





#16

Acetone

Concen: 3.727 ug/l

RT: 3.13 min Scan# 295

Delta R.T. -0.02 min

Lab File: VD059974.D

Acq: 5 Sep 2018 17:33

Instrument :

MSVOA\_D

ClientSampleId :

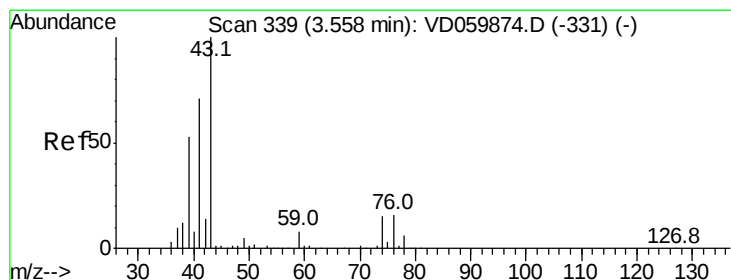
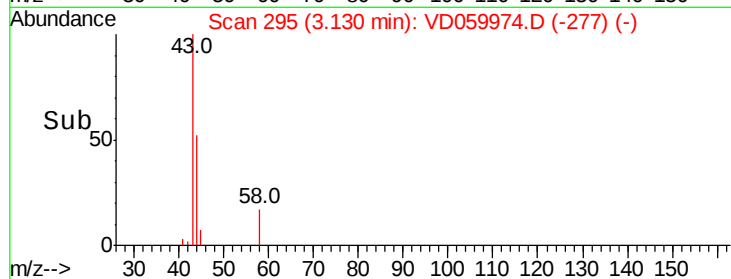
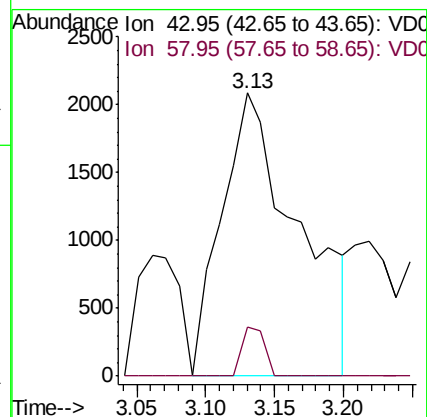
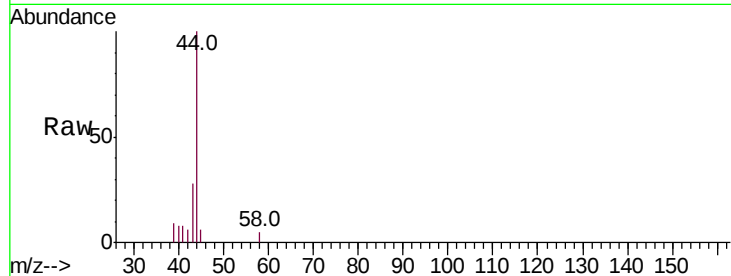
EP1-SUT-8USTS-W

Tot Ion: 43 Resp: 8059

Ion Ratio Lower Upper

43 100

58 17.2 17.6 26.4#



#18

Methyl Acetate

Concen: 2.822 ug/l

RT: 3.52 min Scan# 335

Delta R.T. -0.03 min

Lab File: VD059974.D

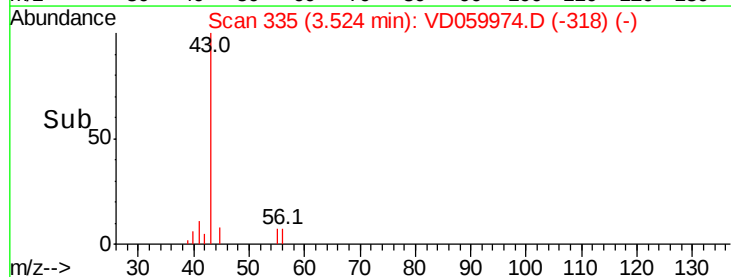
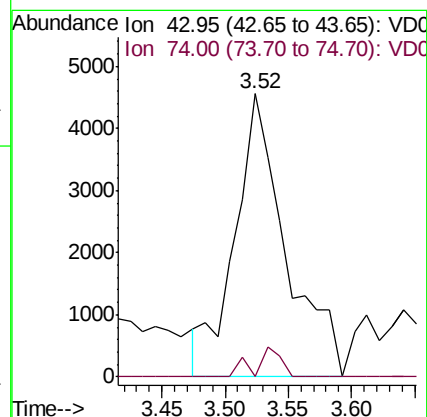
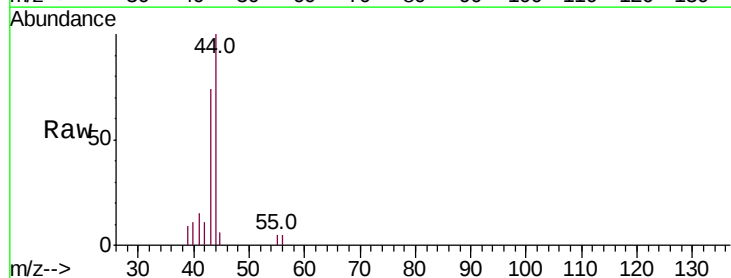
Acq: 5 Sep 2018 17:33

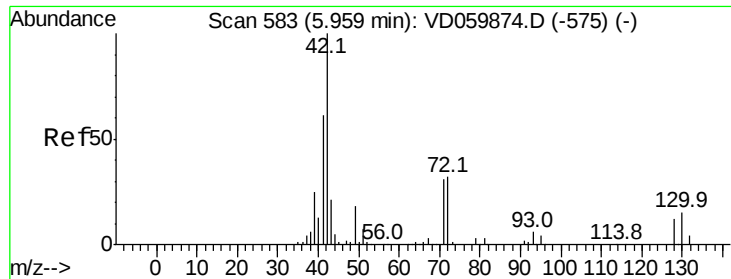
Tgt Ion: 43 Resp: 12739

Ion Ratio Lower Upper

43 100

74 0.0 11.2 16.8#

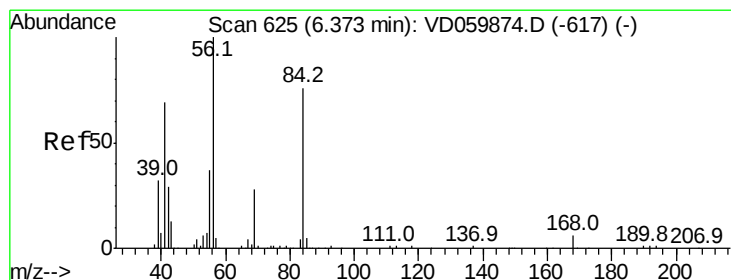
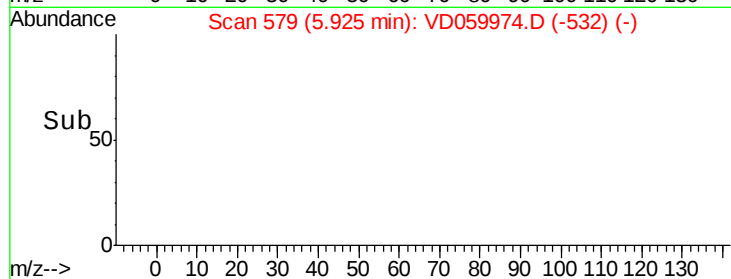
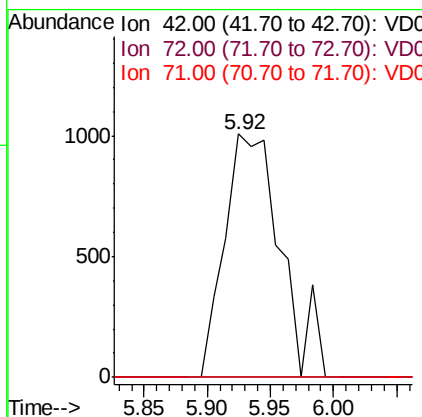
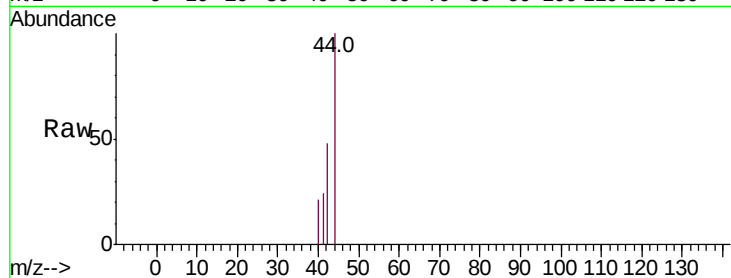




#29  
Tetrahydrofuran  
Concen: 1.020 ug/l  
RT: 5.92 min Scan# 579  
Delta R.T. -0.03 min  
Lab File: VD059974.D  
Acq: 5 Sep 2018 17:33

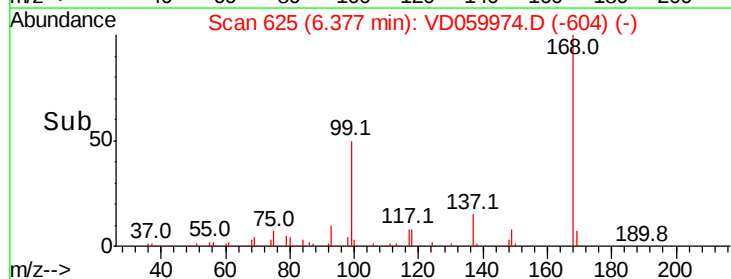
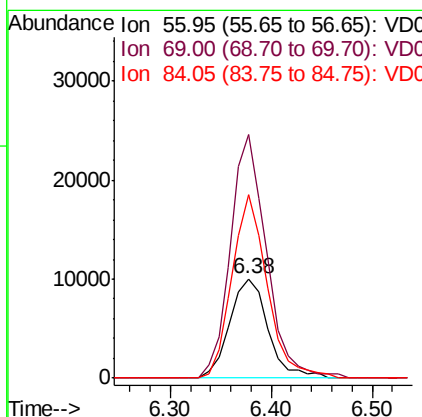
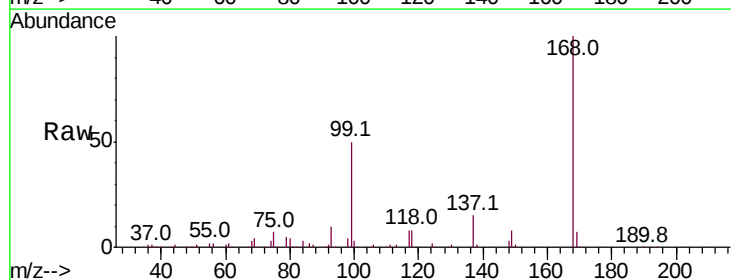
Instrument :  
MSVOA\_D  
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EP1-SUT-8USTS-W

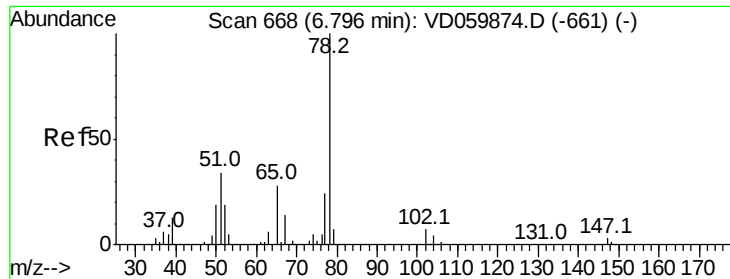
Tot Ion: 42 Resp: 3111  
Ion Ratio Lower Upper  
42 100  
72 0.0 25.7 38.5#  
71 0.0 25.3 37.9#



#31  
Cyclohexane  
Concen: 1.166 ug/l  
RT: 6.38 min Scan# 625  
Delta R.T. 0.00 min  
Lab File: VD059974.D  
Acq: 5 Sep 2018 17:33

Tgt Ion: 56 Resp: 26350  
Ion Ratio Lower Upper  
56 100  
69 245.6 22.4 33.6#  
84 185.6 62.1 93.1#

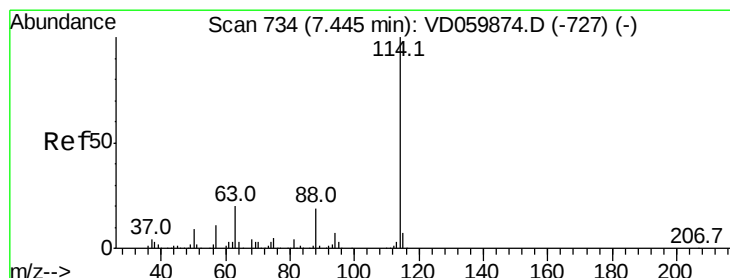
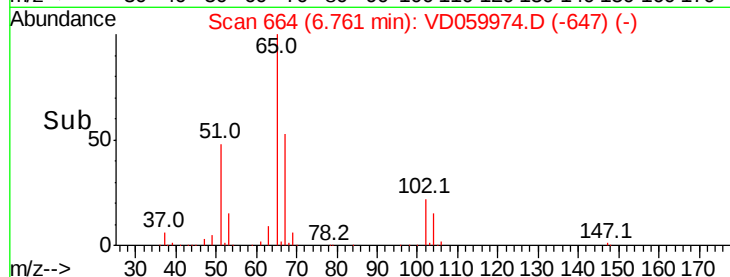
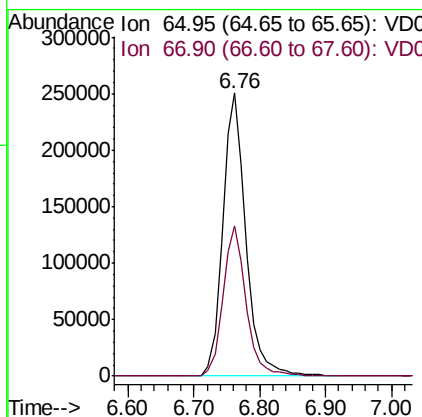
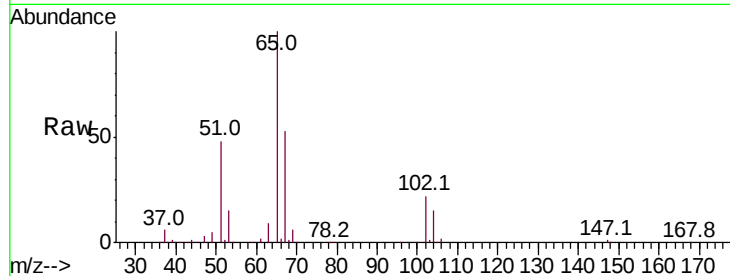




#33  
 1,2-Dichloroethane-d4  
 Concen: N.D. ug/l  
 RT: 6.76 min Scan# 664  
 Delta R.T. -0.03 min  
 Lab File: VD059974.D  
 Acq: 5 Sep 2018 17:33

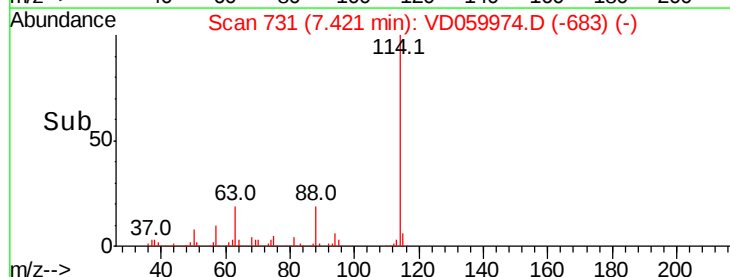
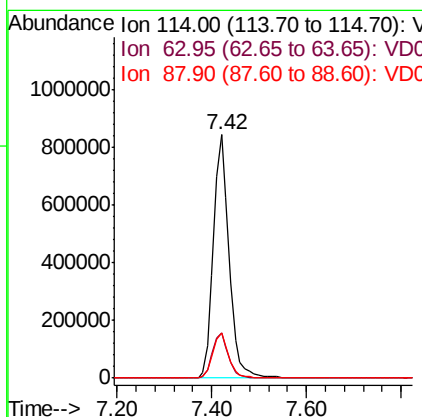
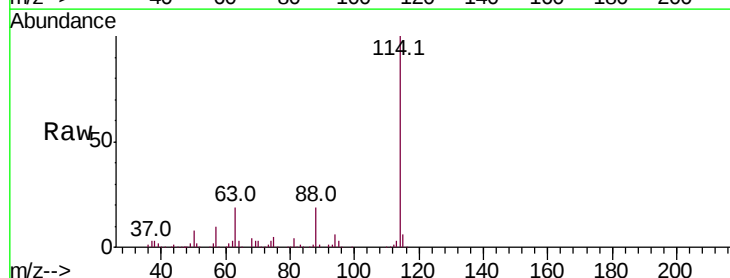
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 EP1-SUT-8USTS-W

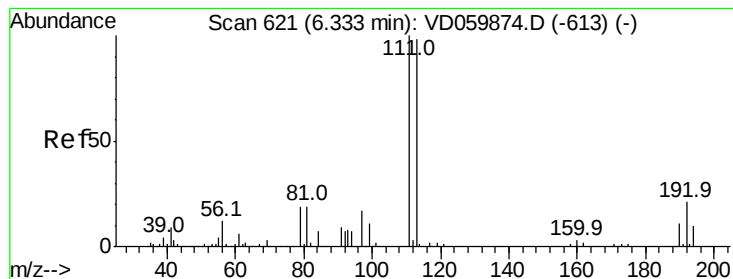
Tot Ion: 65 Resp: 611883  
 Ion Ratio Lower Upper  
 65 100  
 67 53.3 0.0 103.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 7.42 min Scan# 731  
 Delta R.T. -0.02 min  
 Lab File: VD059974.D  
 Acq: 5 Sep 2018 17:33

Tgt Ion:114 Resp: 1944398  
 Ion Ratio Lower Upper  
 114 100  
 63 18.8 0.0 39.4  
 88 18.5 0.0 37.6





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.30 min Scan# 617

Delta R.T. -0.03 min

Lab File: VD059974.D

Acq: 5 Sep 2018 17:33

Instrument :  
MSVOA\_D  
ClientSampleId :  
EP1-SUT-8USTS-W

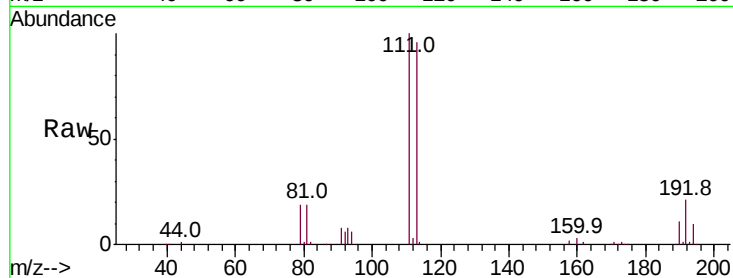
Tot Ion:113 Resp: 783758

Ion Ratio Lower Upper

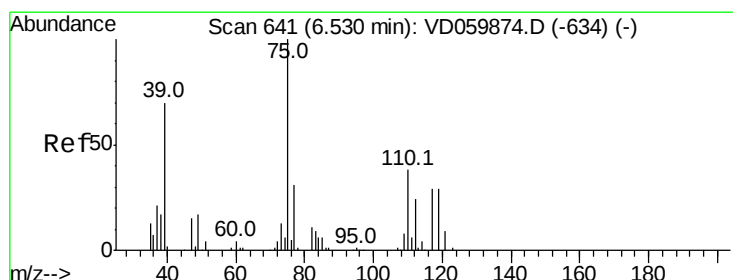
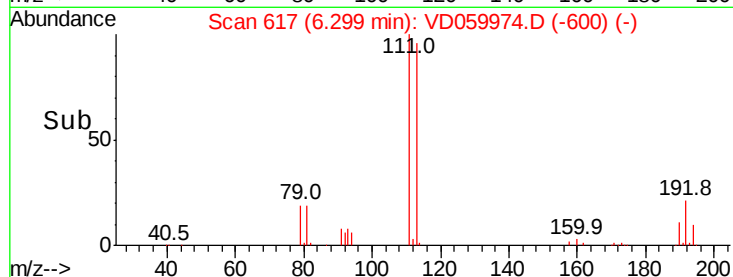
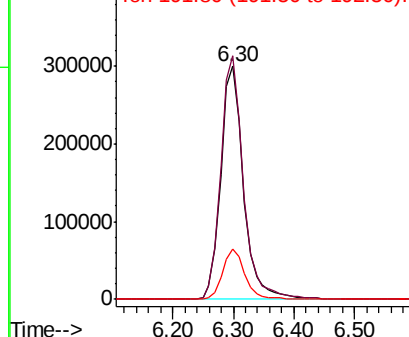
113 100

111 104.5 81.4 122.2

192 21.4 17.0 25.6



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: 5.694 ug/l

RT: 6.38 min Scan# 625

Delta R.T. -0.15 min

Lab File: VD059974.D

Acq: 5 Sep 2018 17:33

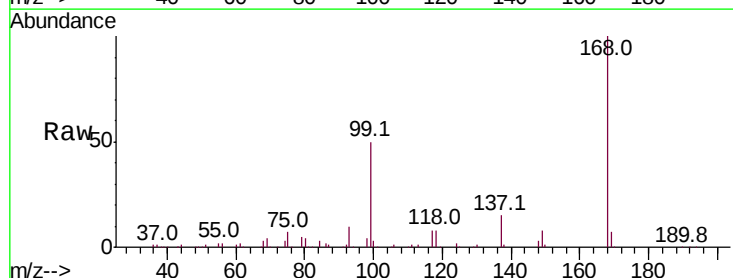
Tgt Ion: 75 Resp: 100369

Ion Ratio Lower Upper

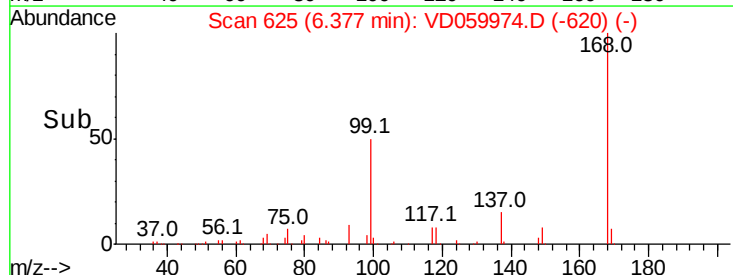
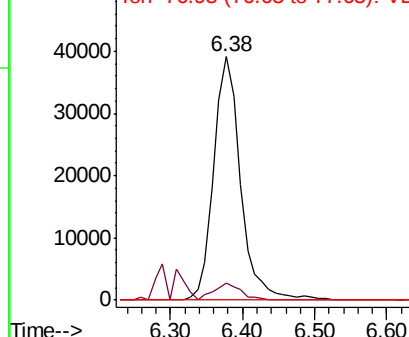
75 100

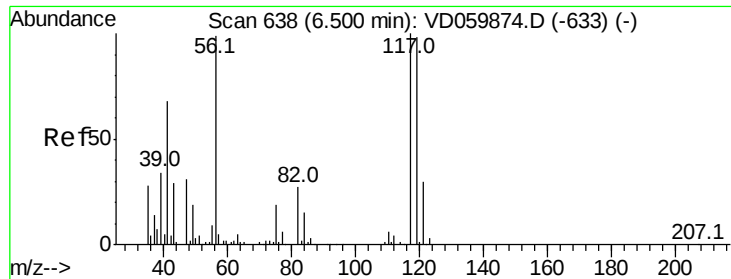
110 6.8 18.6 56.0#

77 0.0 25.1 37.7#



Abundance Ion 75.00 (74.70 to 75.70): VDC  
Ion 109.90 (109.60 to 110.60): V  
Ion 76.95 (76.65 to 77.65): VDC





#38

Carbon Tetrachloride

Concen: 6.199 ug/l

RT: 6.38 min Scan# 625

Delta R.T. -0.12 min

Lab File: VD059974.D

Acq: 5 Sep 2018 17:33

Instrument :

MSVOA\_D

ClientSampleId :

EP1-SUT-8USTS-W

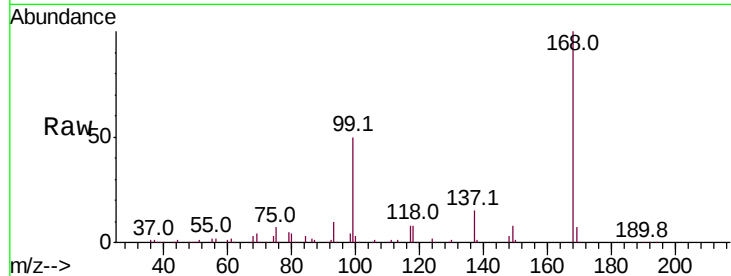
Tot Ion:117 Resp: 110268

Ion Ratio Lower Upper

117 100

119 4.9 77.2 115.8#

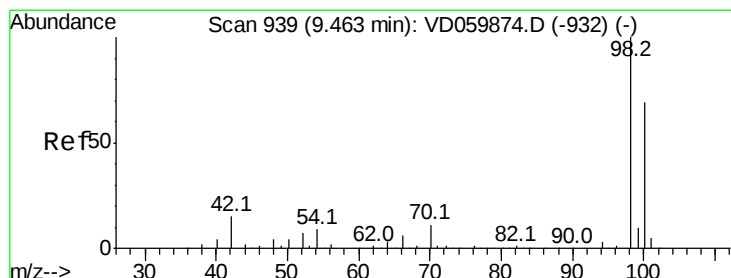
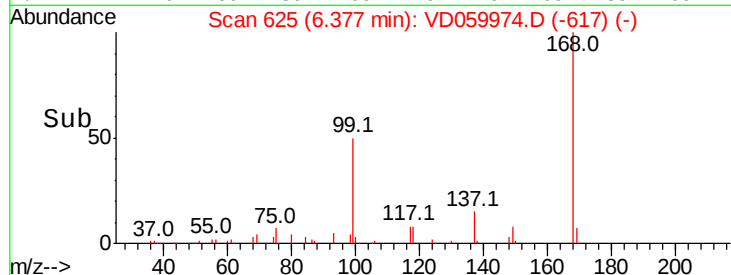
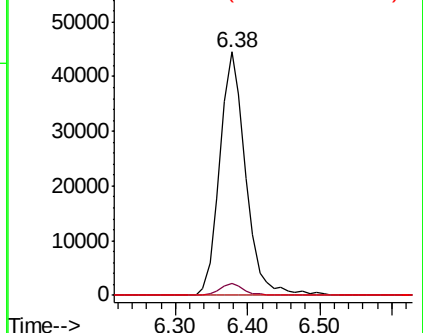
121 0.0 24.0 36.0#



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: 9.44 min Scan# 936

Delta R.T. -0.02 min

Lab File: VD059974.D

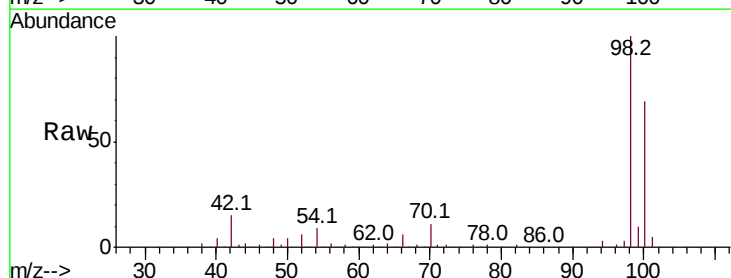
Acq: 5 Sep 2018 17:33

Tgt Ion: 98 Resp: 1641448

Ion Ratio Lower Upper

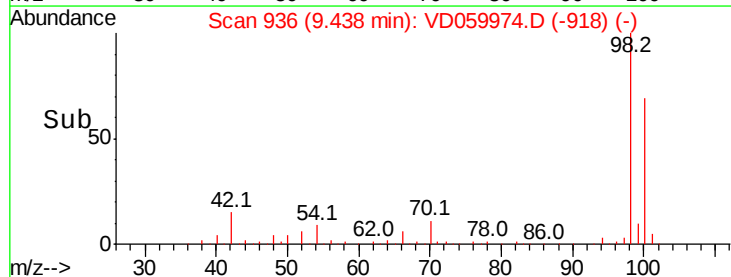
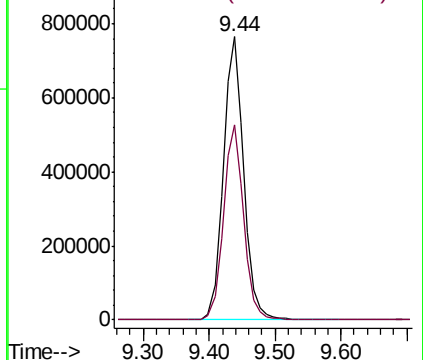
98 100

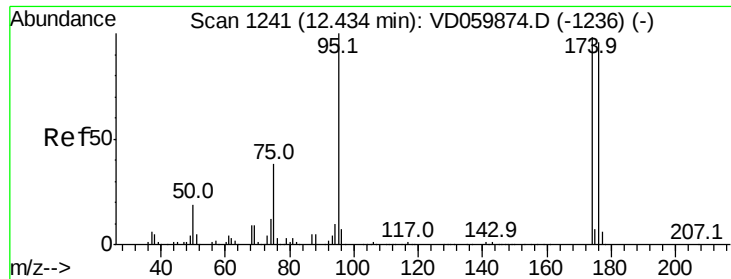
100 68.7 55.8 83.6



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V

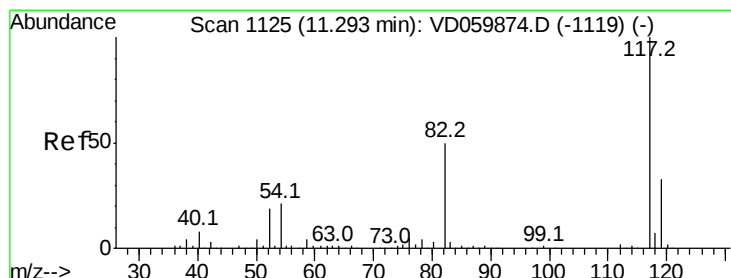
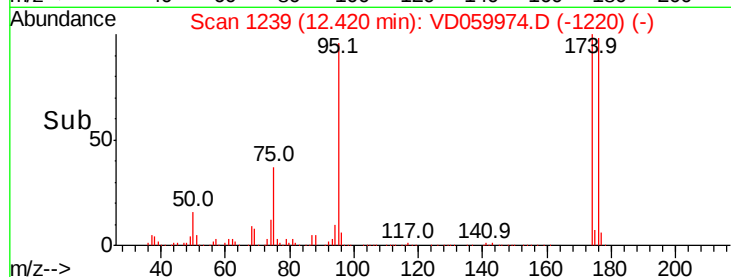
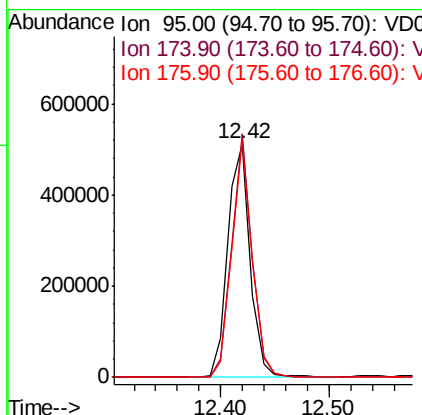
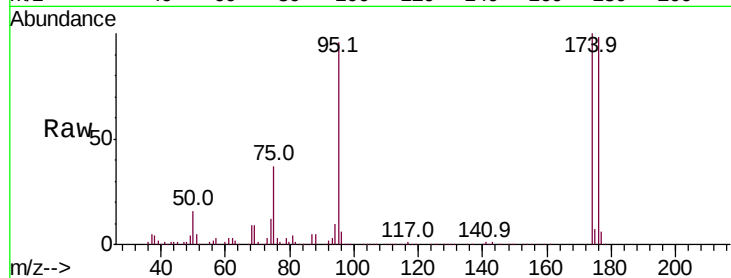




#62  
4-Bromofluorobenzene  
Concen: N.D. ug/l  
RT: 12.42 min Scan# 1239  
Delta R.T. -0.01 min  
Lab File: VD059974.D  
Acq: 5 Sep 2018 17:33

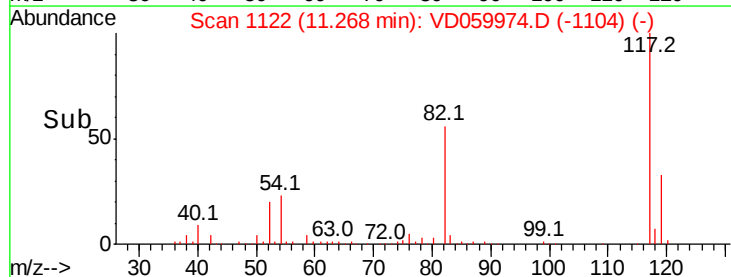
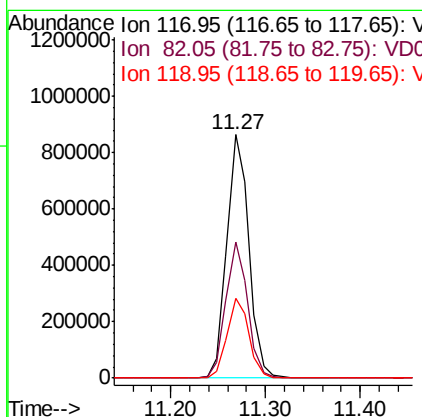
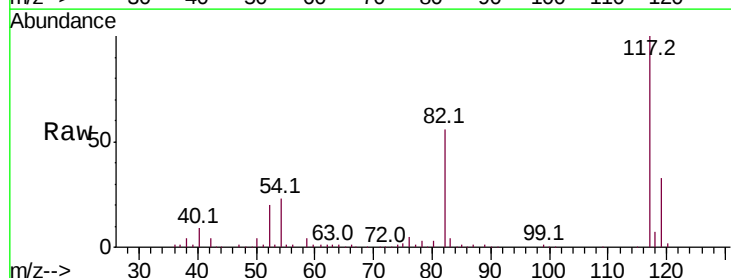
Instrument :  
MSVOA\_D  
ClientSampleId :  
EP1-SUT-8USTS-W

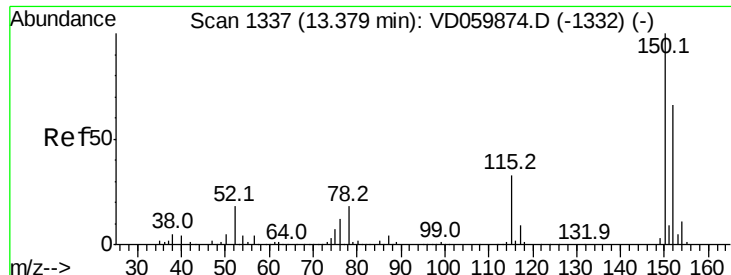
Tot Ion: 95 Resp: 737720  
Ion Ratio Lower Upper  
95 100  
174 104.2 0.0 195.6  
176 102.0 0.0 191.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.27 min Scan# 1122  
Delta R.T. -0.02 min  
Lab File: VD059974.D  
Acq: 5 Sep 2018 17:33

Tgt Ion: 117 Resp: 1395154  
Ion Ratio Lower Upper  
117 100  
82 55.7 40.1 60.1  
119 32.5 26.7 40.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.36 min Scan# 1335

Delta R.T. -0.01 min

Lab File: VD059974.D

Acq: 5 Sep 2018 17:33

Instrument :

MSVOA\_D

ClientSampleId :

EP1-SUT-8USTS-W

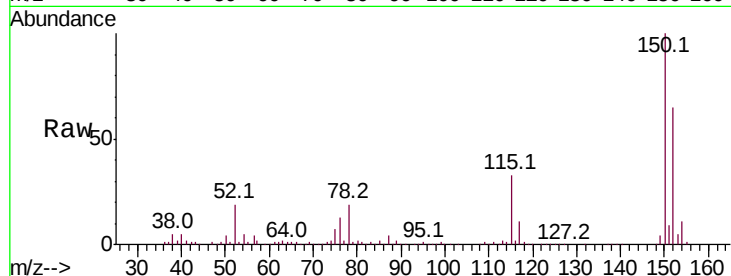
Tot Ion:152 Resp: 758449

Ion Ratio Lower Upper

152 100

115 51.0 25.7 77.0

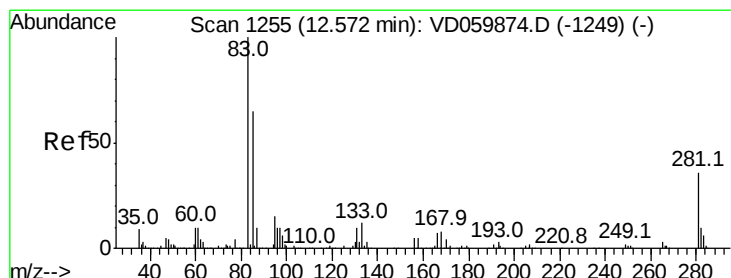
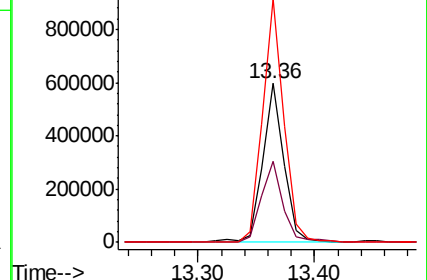
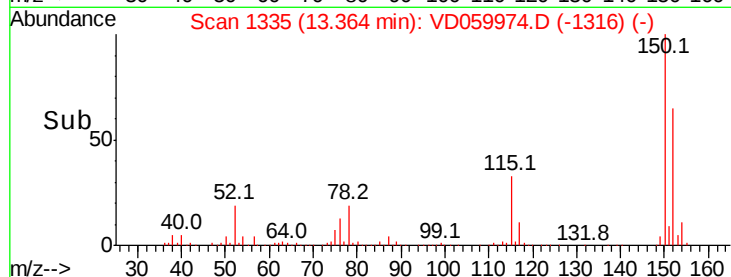
150 153.1 0.0 310.2



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



#75

1,1,2,2-Tetrachloroethane

Concen: 1.620 ug/l

RT: 12.57 min Scan# 1254

Delta R.T. -0.00 min

Lab File: VD059974.D

Acq: 5 Sep 2018 17:33

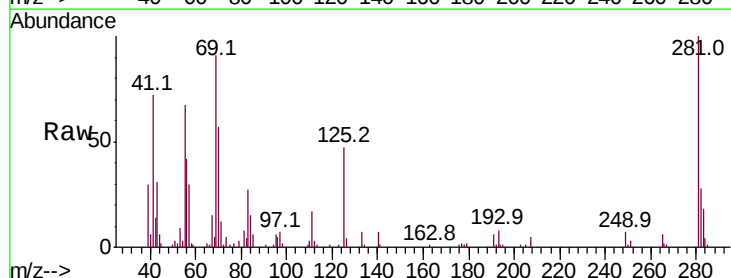
Tgt Ion: 83 Resp: 18145

Ion Ratio Lower Upper

83 100

131 0.0 4.8 14.4#

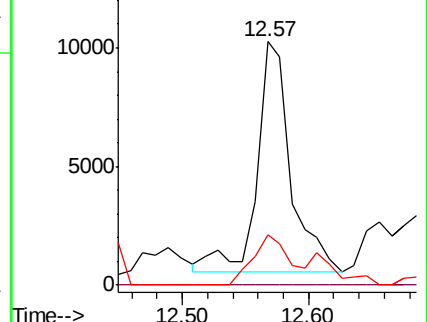
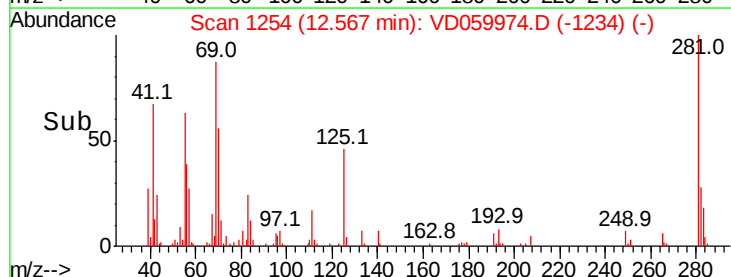
85 20.8 32.6 97.8#

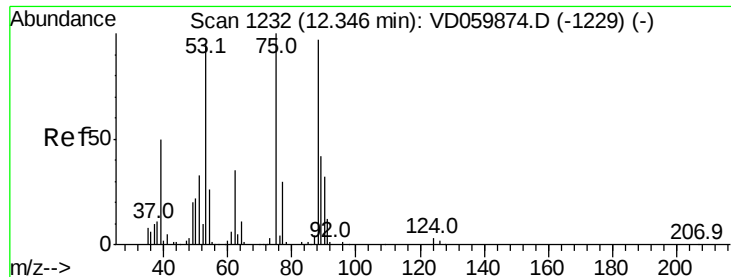


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 130.90 (130.60 to 131.60): V

Ion 84.95 (84.65 to 85.65): V





#81

trans-1,4-Dichloro-2-butene

Concen: 81.373 ug/l

RT: 12.42 min Scan# 1239

Delta R.T. 0.07 min

Lab File: VD059974.D

Acq: 5 Sep 2018 17:33

Instrument :

MSVOA\_D

ClientSampleId :

EP1-SUT-8USTS-W

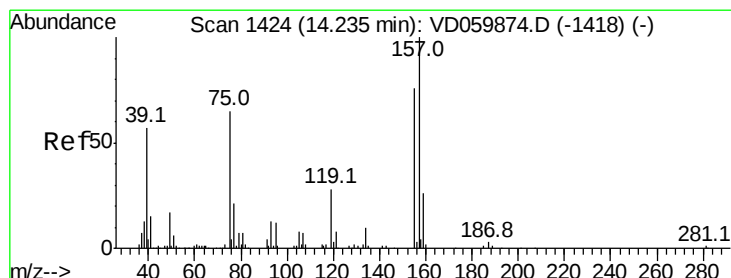
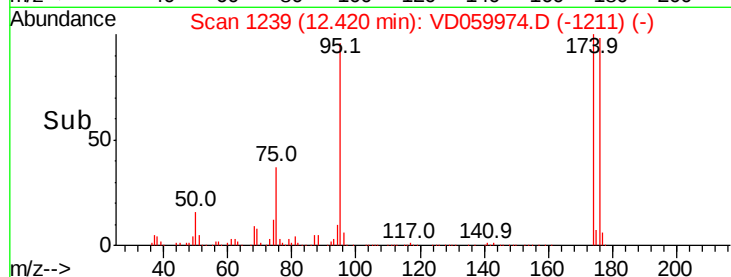
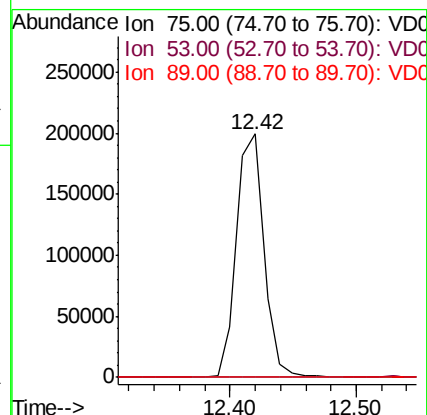
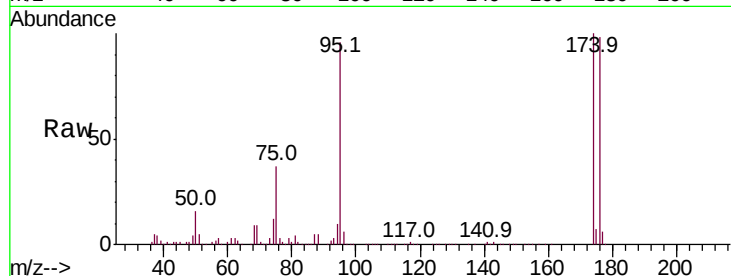
Tot Ion: 75 Resp: 298382

Ion Ratio Lower Upper

75 100

53 0.2 75.8 113.6#

89 0.0 33.6 50.4#



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.213 ug/l

RT: 14.21 min Scan# 1421

Delta R.T. -0.02 min

Lab File: VD059974.D

Acq: 5 Sep 2018 17:33

Tgt Ion: 75 Resp: 2088

Ion Ratio Lower Upper

75 100

155 0.0 58.2 174.6#

157 0.0 76.8 230.4#

