

Data File : VW004865.D  
Acq On : 22 Aug 2018 03:37  
Operator : SY/AP  
Sample : J4275-13  
Misc : 7.11G/5ML/MSVOA\_W/SOIL  
ALS Vial : 39 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
CL-01-082018-C

Quant Time: Aug 22 07:50:22 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W081918S.M  
Quant Title : SW846 8260  
QLast Update : Sat Aug 18 01:49:53 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 578102   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 918571   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 625676   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 243335   | 50.00 | ug/l  | 0.00     |

System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 320943   | 57.42 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 114.84% |      |
| 35) Dibromofluoromethane  | 7.88   | 113 | 321766   | 54.81 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 109.62% |      |
| 50) Toluene-d8            | 10.33  | 98  | 557340   | 24.32 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 48.64%  |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 262771   | 31.87 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 63.74%  |      |

Target Compounds

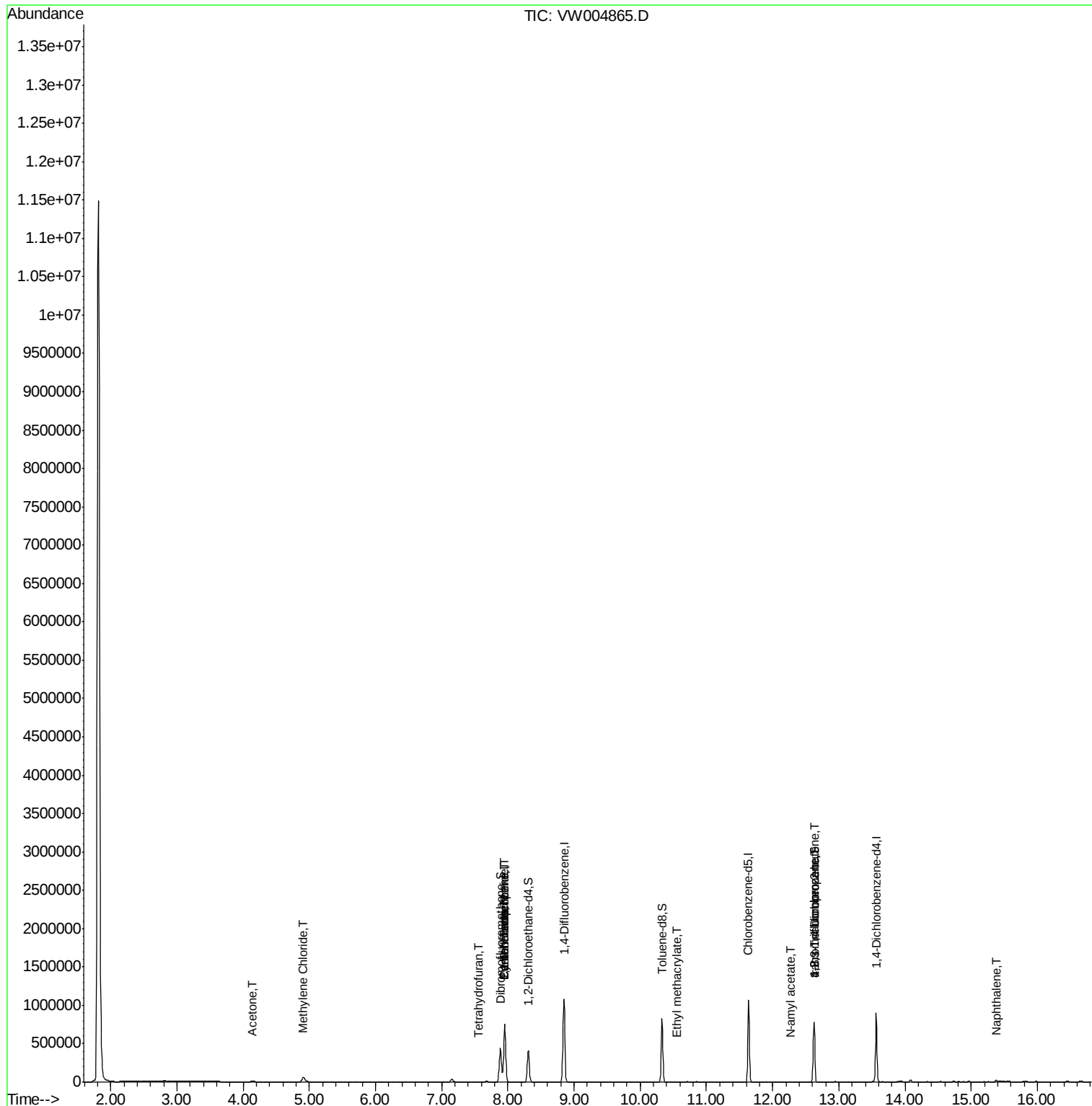
|                                |       |     |        |         |        | Qvalue |
|--------------------------------|-------|-----|--------|---------|--------|--------|
| 16) Acetone                    | 4.14  | 43  | 27459  | 19.246  | ug/l   | 97     |
| 20) Methylene Chloride         | 4.92  | 84  | 49740  | 3.633   | ug/l   | 98     |
| 29) Tetrahydrofuran            | 7.55  | 42  | 1126   | 1.086   | ug/l   | 92     |
| 31) Cyclohexane                | 7.95  | 56  | 11058  | 1.012   | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.95  | 75  | 42995  | 4.544   | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 7.95  | 117 | 52330  | 6.008   | ug/l # | 16     |
| 56) Ethyl methacrylate         | 10.55 | 69  | 23     | 2.984   | ug/l # | 1      |
| 74) N-amyl acetate             | 12.28 | 43  | 23     | 4.024   | ug/l # | 26     |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75  | 124633 | 58.102  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.63 | 75  | 124633 | 135.046 | ug/l # | 13     |
| 95) Naphthalene                | 15.38 | 128 | 18862  | 5.256   | ug/l # | 95     |

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.00 min

Lab File: VW004865.D

Acq: 22 Aug 2018 03:37

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MSVOA\_W

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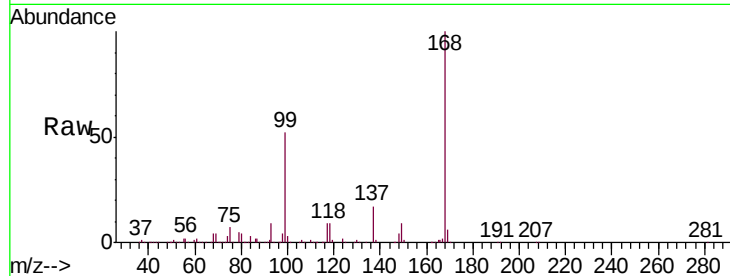
CL-01-082018-C

Tgt Ion:168 Resp: 578102

Ion Ratio Lower Upper

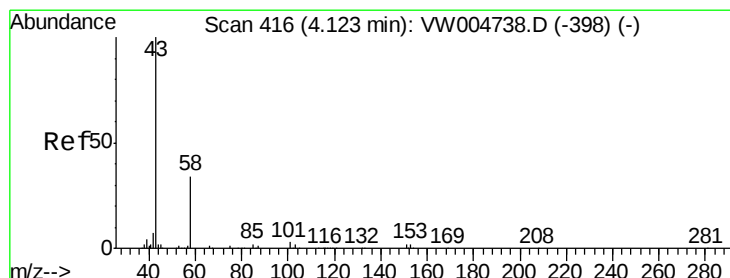
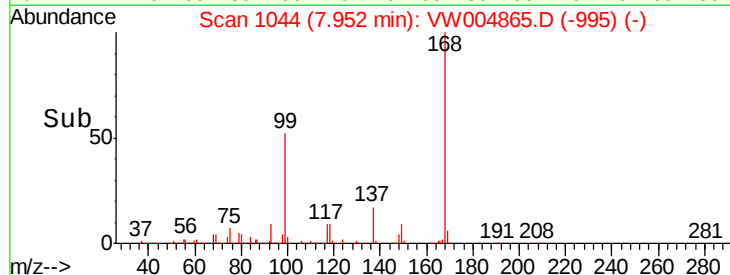
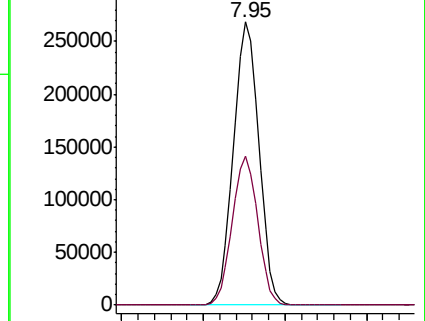
168 100

99 52.4 41.0 61.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#16

Acetone

Concen: 19.246 ug/l

RT: 4.14 min Scan# 419

Delta R.T. 0.02 min

Lab File: VW004865.D

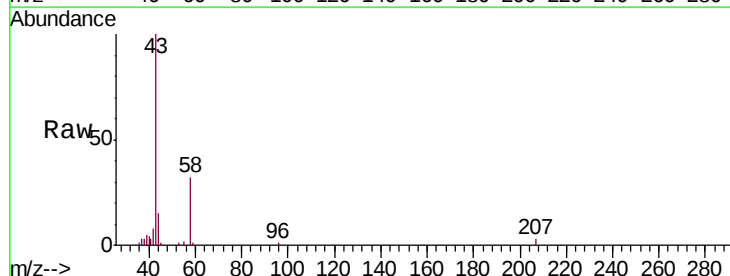
Acq: 22 Aug 2018 03:37

Tgt Ion: 43 Resp: 27459

Ion Ratio Lower Upper

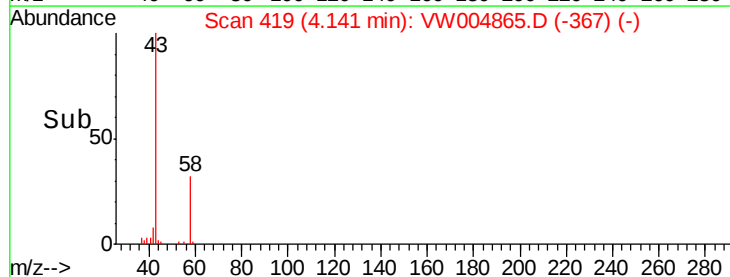
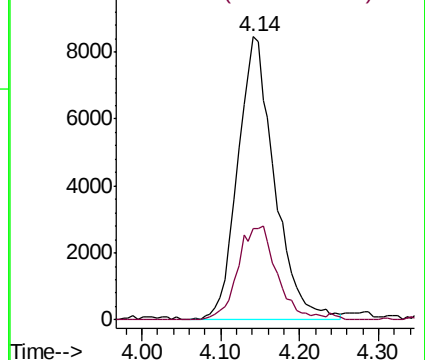
43 100

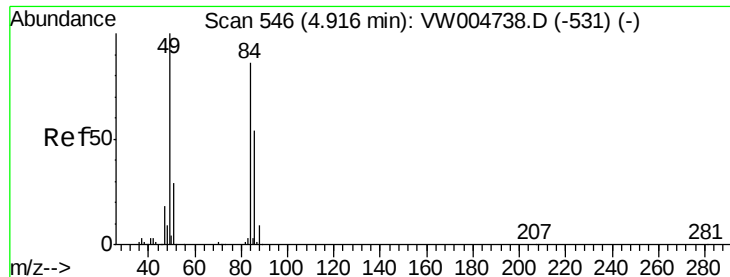
58 32.2 27.3 40.9



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

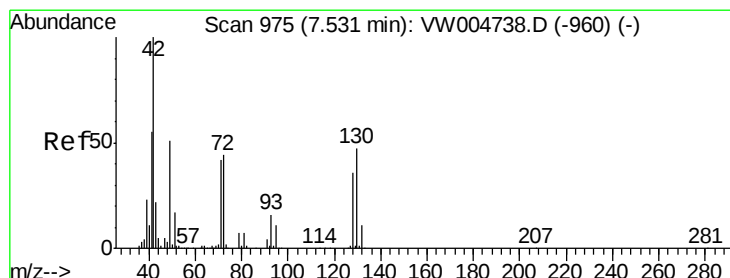
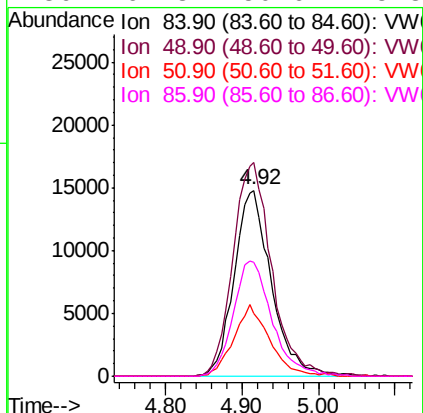
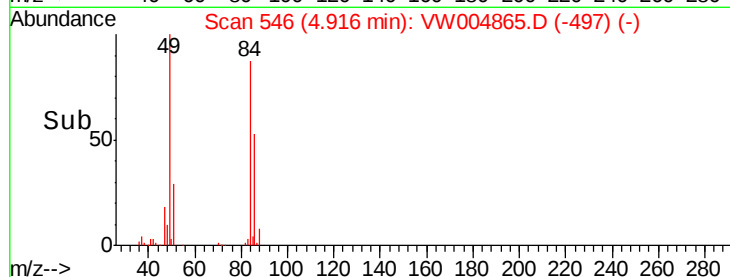
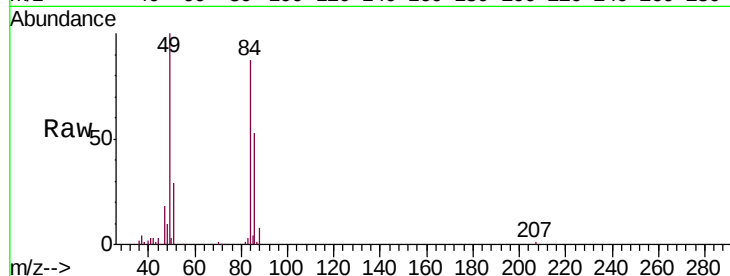




#20  
Methylene Chloride  
Concen: 3.633 ug/l  
RT: 4.92 min Scan# 546  
Delta R.T. 0.00 min  
Lab File: VW004865.D  
Acq: 22 Aug 2018 03:37

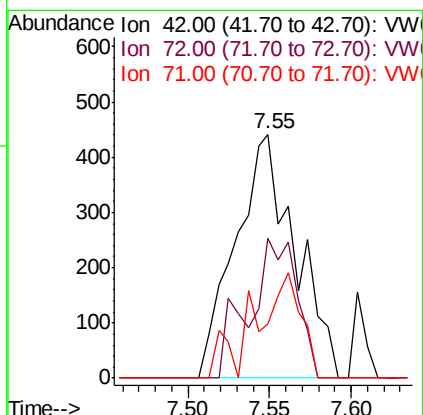
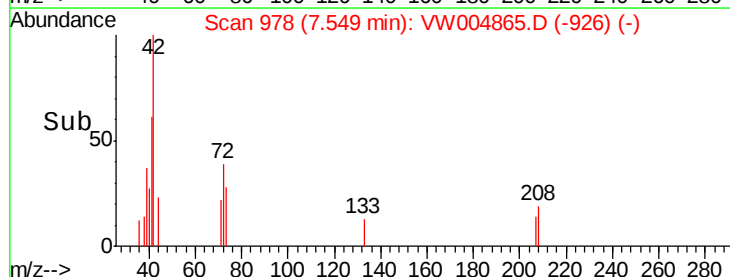
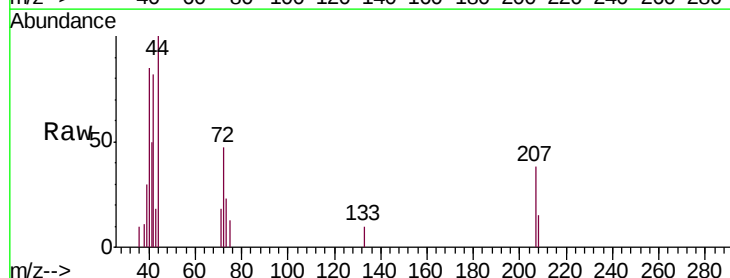
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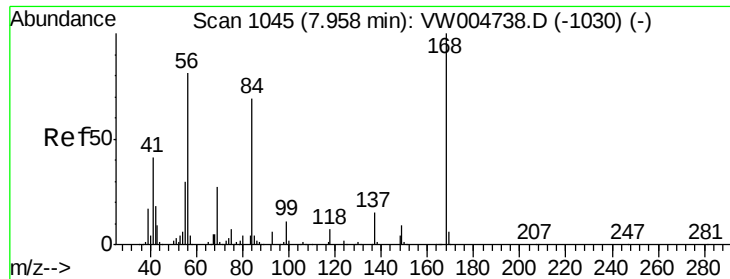
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 49740 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 115.1 | 93.2  | 139.8 |
| 51       | 33.8  | 27.4  | 41.0  |
| 86       | 61.3  | 50.6  | 75.8  |



#29  
Tetrahydrofuran  
Concen: 1.086 ug/l  
RT: 7.55 min Scan# 978  
Delta R.T. 0.02 min  
Lab File: VW004865.D  
Acq: 22 Aug 2018 03:37

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 1126  |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 46.2  | 34.9  | 52.3  |
| 71       | 34.2  | 33.8  | 50.6  |

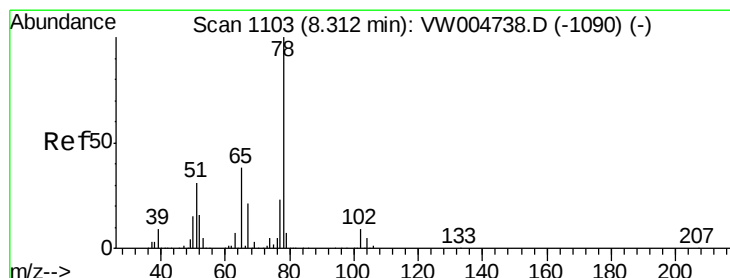
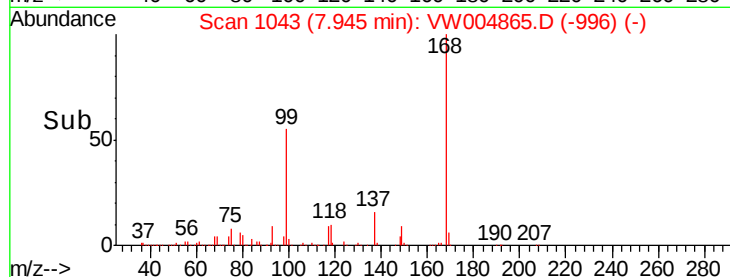
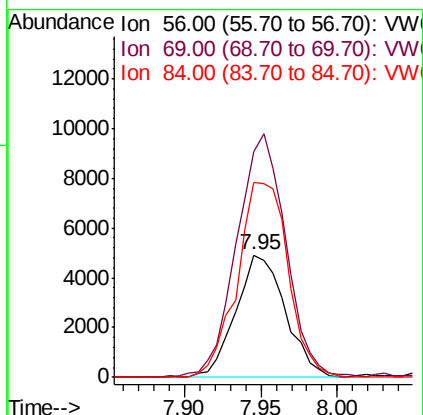
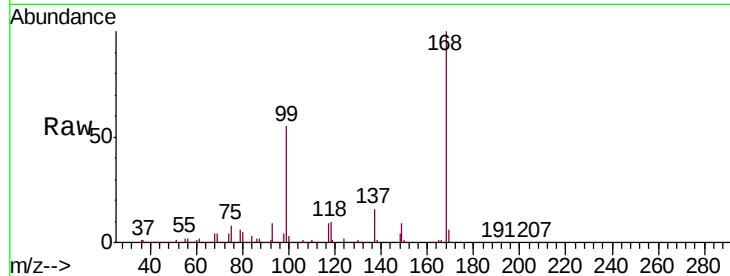




#31  
Cyclohexane  
Concen: 1.012 ug/l  
RT: 7.95 min Scan# 1043  
Delta R.T. -0.01 min  
Lab File: VW004865.D  
Acq: 22 Aug 2018 03:37

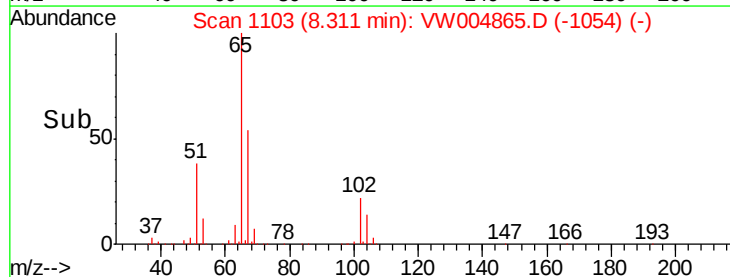
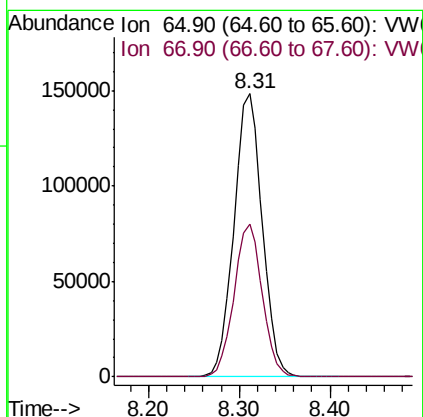
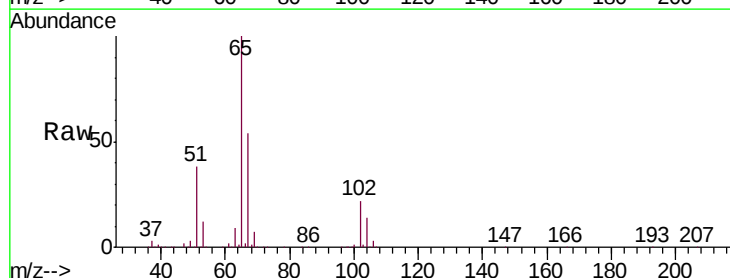
Instrument :  
MSVOA\_W  
ClientSampleId :  
CL-01-082018-C

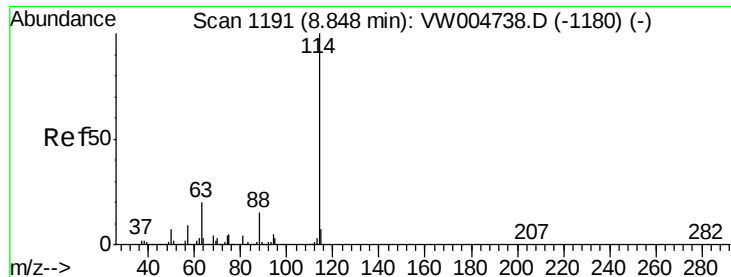
Tgt Ion: 56 Resp: 11058  
Ion Ratio Lower Upper  
56 100  
69 182.5 27.1 40.7#  
84 159.9 68.3 102.5#



#33  
1,2-Dichloroethane-d4  
Concen: 57.423 ug/l  
RT: 8.31 min Scan# 1103  
Delta R.T. -0.00 min  
Lab File: VW004865.D  
Acq: 22 Aug 2018 03:37

Tgt Ion: 65 Resp: 320943  
Ion Ratio Lower Upper  
65 100  
67 53.9 0.0 109.4

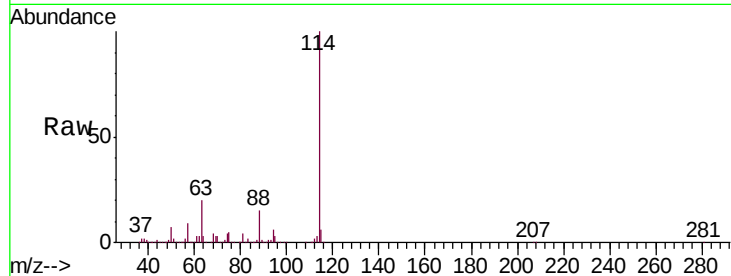




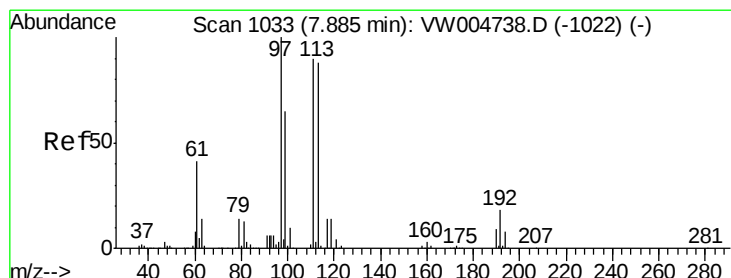
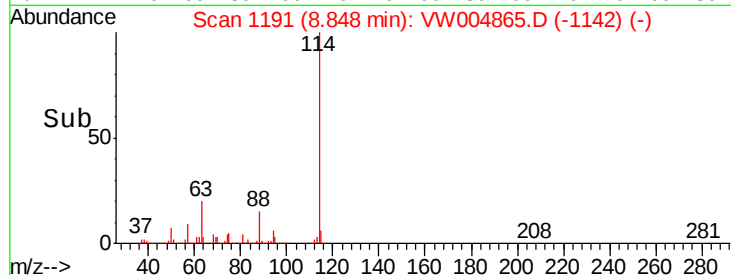
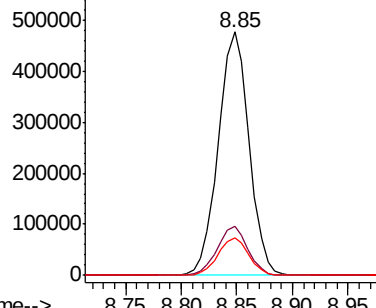
#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.85 min Scan# 1191  
Delta R.T. -0.00 min  
Lab File: VW004865.D  
Acq: 22 Aug 2018 03:37

Instrument :  
MSVOA\_W  
ClientSampleId :  
CL-01-082018-C

Tgt Ion:114 Resp: 918571  
Ion Ratio Lower Upper  
114 100  
63 20.1 0.0 39.0  
88 15.4 0.0 30.0

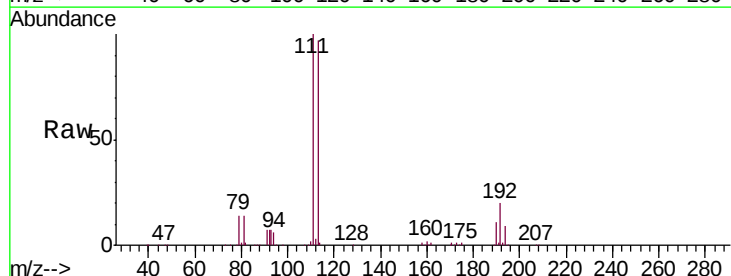


Abundance Ion 113.90 (113.60 to 114.60): V  
Ion 63.00 (62.70 to 63.70): VW  
Ion 87.90 (87.60 to 88.60): VW

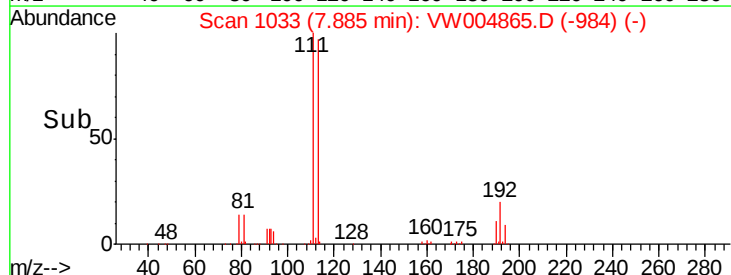
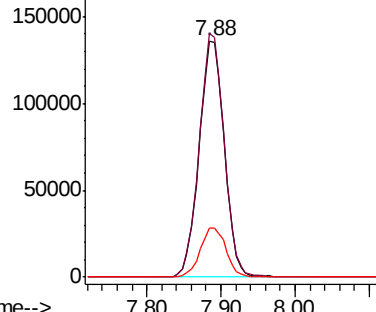


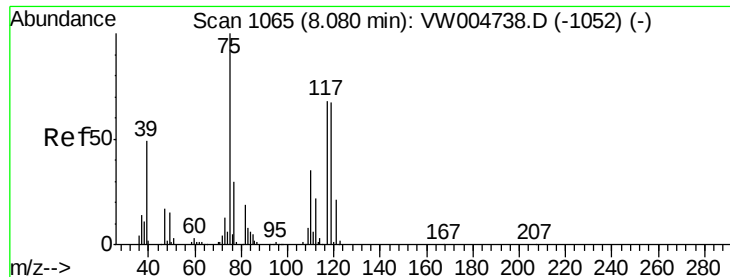
#35  
Dibromofluoromethane  
Concen: 54.807 ug/l  
RT: 7.88 min Scan# 1033  
Delta R.T. -0.00 min  
Lab File: VW004865.D  
Acq: 22 Aug 2018 03:37

Tgt Ion:113 Resp: 321766  
Ion Ratio Lower Upper  
113 100  
111 102.1 82.4 123.6  
192 21.3 16.7 25.1



Abundance Ion 112.80 (112.50 to 113.50): V  
Ion 110.80 (110.50 to 111.50): V  
Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.544 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.13 min

Lab File: VW004865.D

Acq: 22 Aug 2018 03:37

Instrument :

MSVOA\_W

ClientSampleId :

CL-01-082018-C

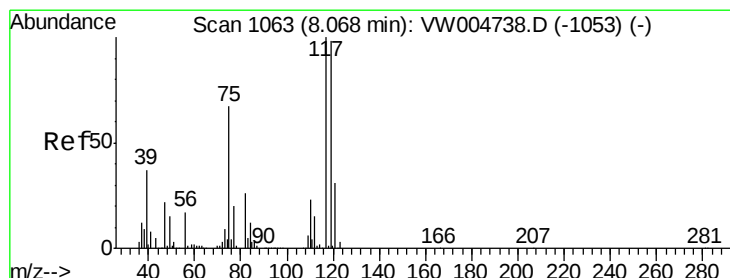
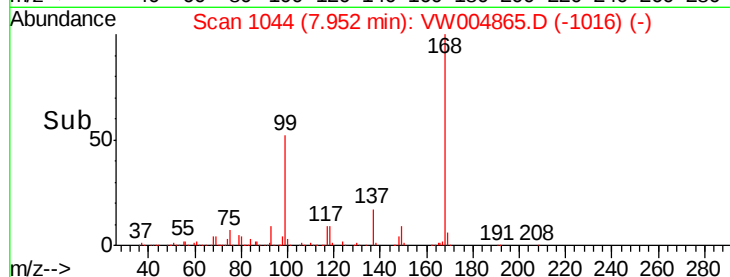
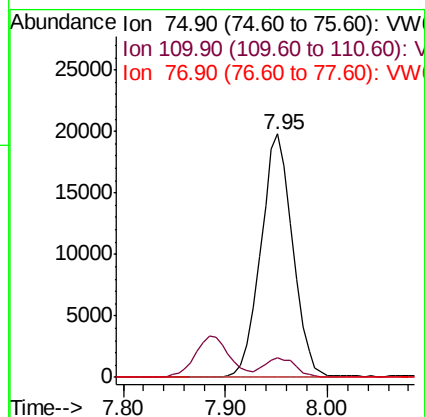
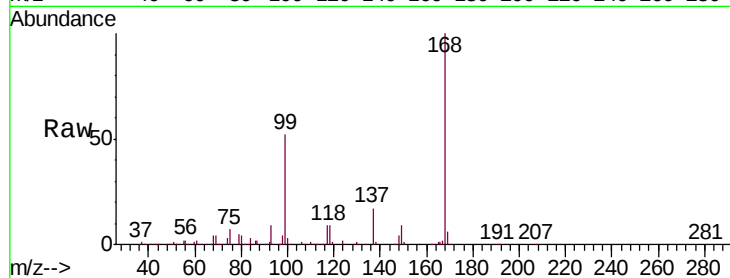
Tgt Ion: 75 Resp: 42995

Ion Ratio Lower Upper

75 100

110 7.8 17.8 53.5#

77 0.0 24.9 37.3#



#38

Carbon Tetrachloride

Concen: 6.008 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.12 min

Lab File: VW004865.D

Acq: 22 Aug 2018 03:37

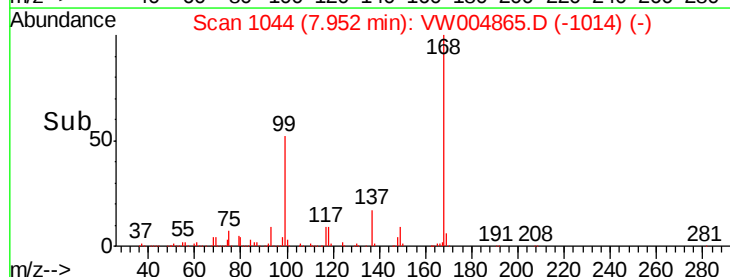
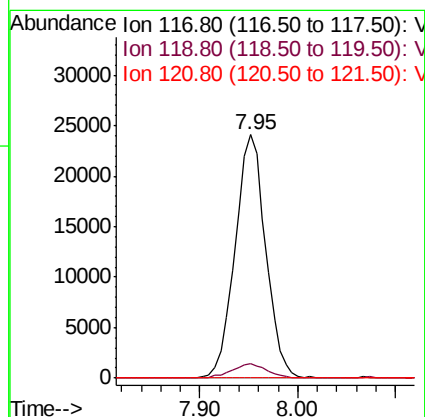
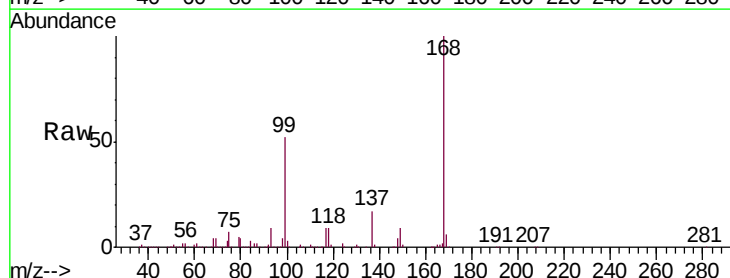
Tgt Ion: 117 Resp: 52330

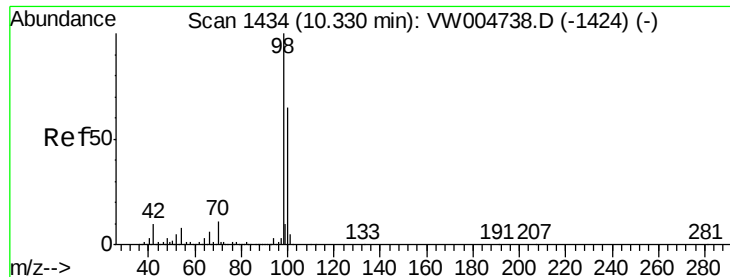
Ion Ratio Lower Upper

117 100

119 6.1 78.0 117.0#

121 0.0 24.8 37.2#





#50

Toluene-d8

Concen: 24.319 ug/l

RT: 10.33 min Scan# 1434

Delta R.T. -0.00 min

Lab File: VW004865.D

Acq: 22 Aug 2018 03:37

Instrument :

MSVOA\_W

ClientSampleId :

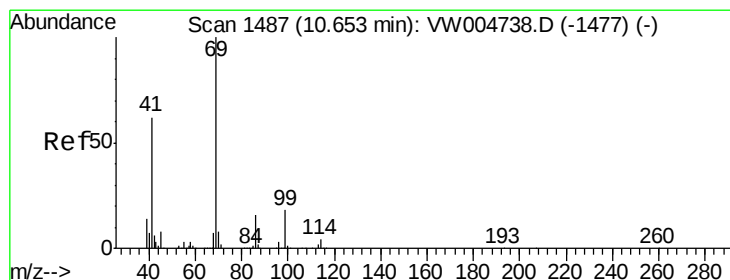
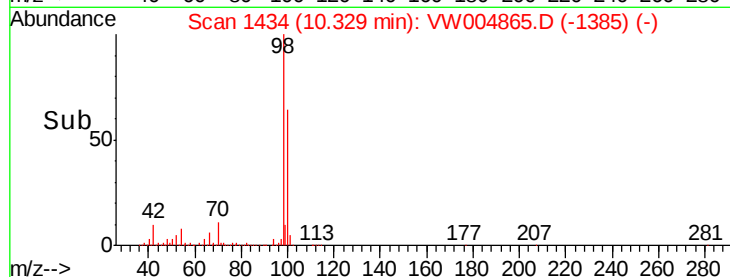
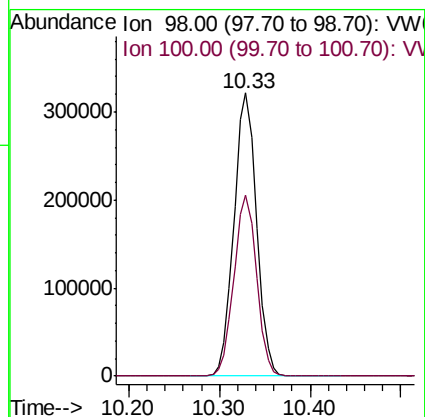
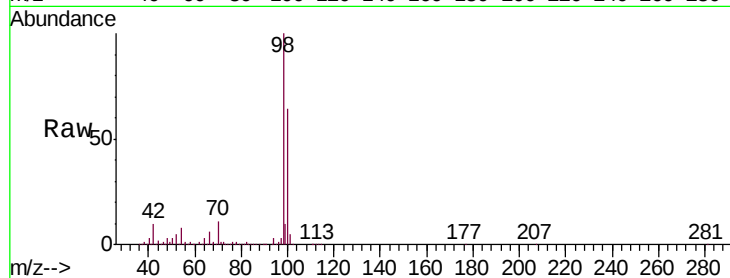
CL-01-082018-C

Tgt Ion: 98 Resp: 557340

Ion Ratio Lower Upper

98 100

100 63.8 51.8 77.8



#56

Ethyl methacrylate

Concen: 2.984 ug/l

RT: 10.55 min Scan# 1470

Delta R.T. -0.10 min

Lab File: VW004865.D

Acq: 22 Aug 2018 03:37

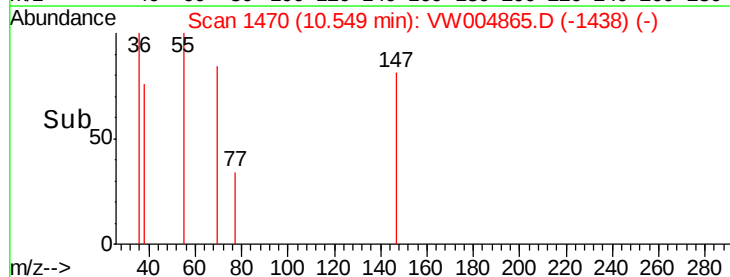
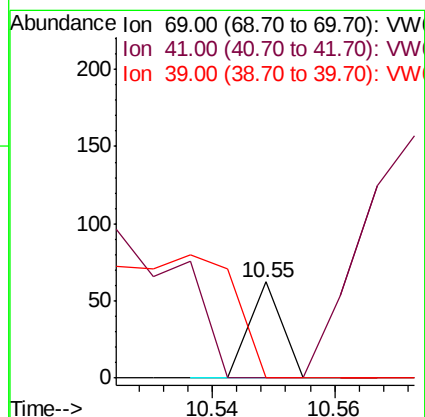
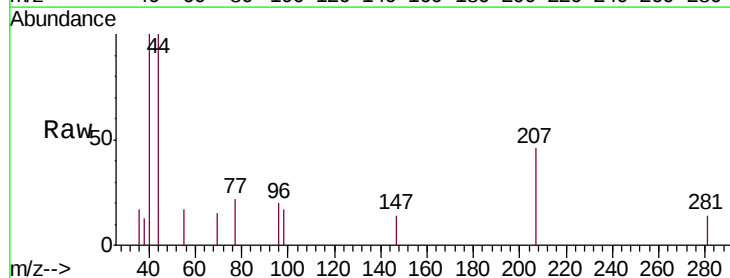
Tgt Ion: 69 Resp: 23

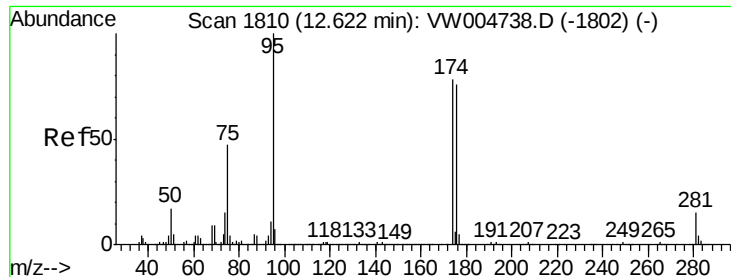
Ion Ratio Lower Upper

69 100

41 0.0 50.7 76.1#

39 469.6 21.4 32.2#

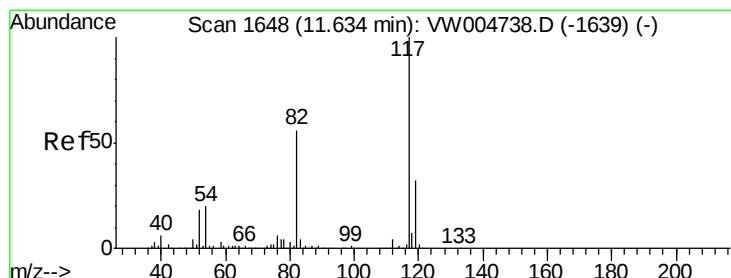
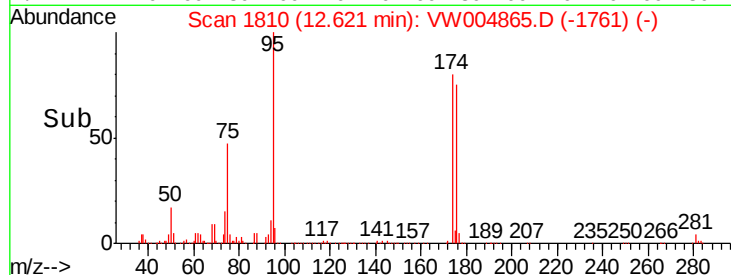
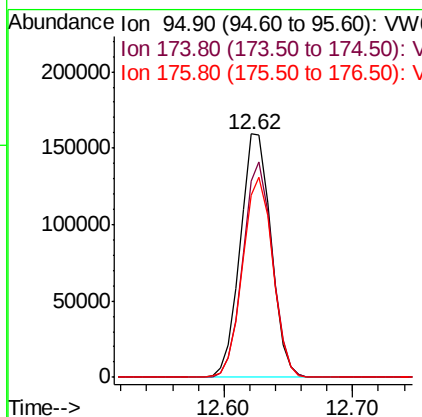
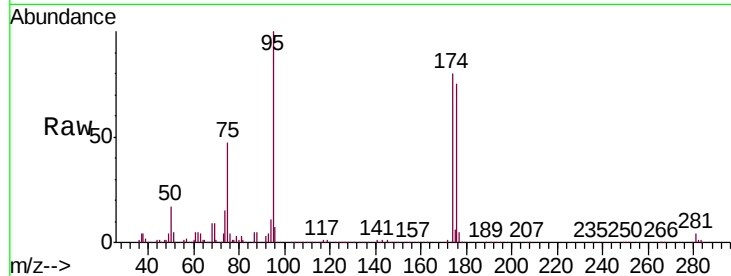




#62  
4-Bromofluorobenzene  
Concen: 31.871 ug/l  
RT: 12.62 min Scan# 1810  
Delta R.T. -0.00 min  
Lab File: VW004865.D  
Acq: 22 Aug 2018 03:37

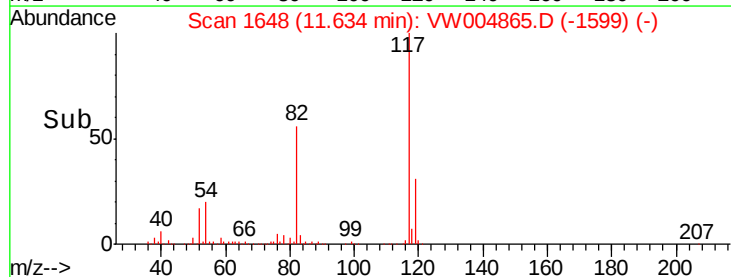
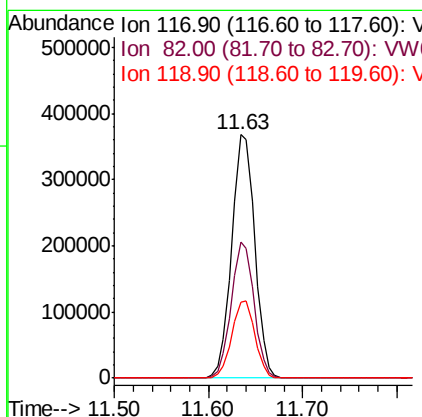
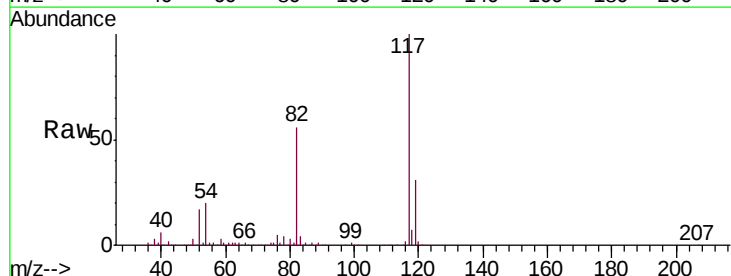
Instrument :  
MSVOA\_W  
ClientSampleId :  
CL-01-082018-C

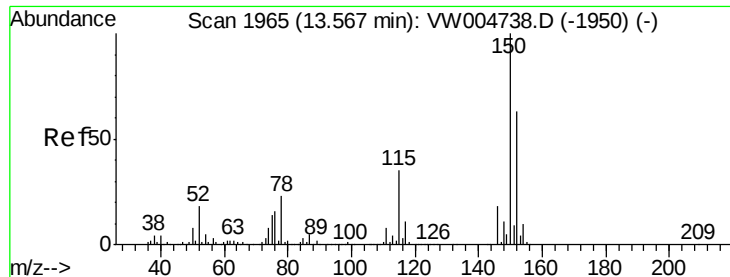
Tgt Ion: 95 Resp: 262771  
Ion Ratio Lower Upper  
95 100  
174 84.8 0.0 165.8  
176 80.8 0.0 159.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1648  
Delta R.T. -0.00 min  
Lab File: VW004865.D  
Acq: 22 Aug 2018 03:37

Tgt Ion: 117 Resp: 625676  
Ion Ratio Lower Upper  
117 100  
82 55.8 44.6 67.0  
119 31.3 25.6 38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.57 min Scan# 1965

Delta R.T. -0.00 min

Lab File: VW004865.D

Acq: 22 Aug 2018 03:37

Instrument :

MSVOA\_W

ClientSampleId :

CL-01-082018-C

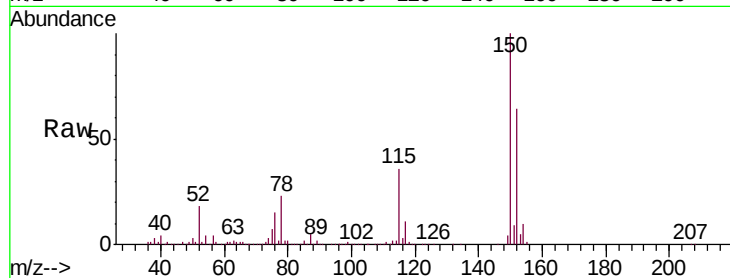
Tgt Ion:152 Resp: 243335

Ion Ratio Lower Upper

152 100

115 56.3 28.5 85.5

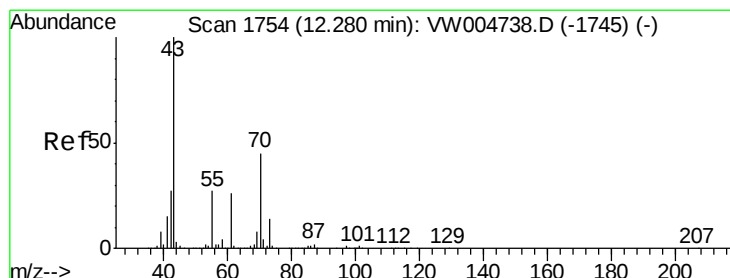
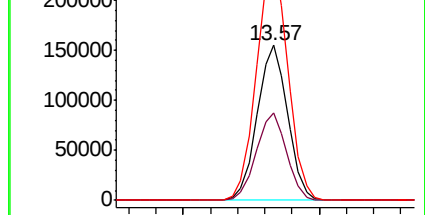
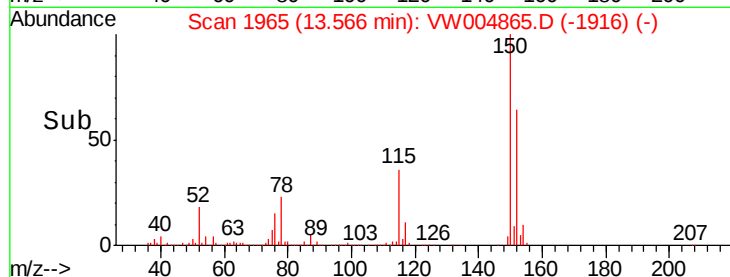
150 158.5 0.0 344.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 4.024 ug/l

RT: 12.28 min Scan# 1754

Delta R.T. 0.00 min

Lab File: VW004865.D

Acq: 22 Aug 2018 03:37

Tgt Ion: 43 Resp: 23

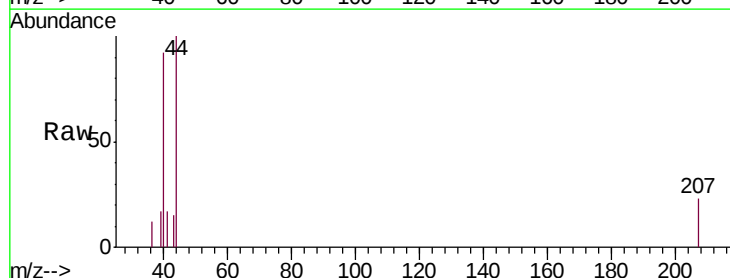
Ion Ratio Lower Upper

43 100

70 0.0 36.3 54.5#

55 82.6 22.6 33.8#

61 0.0 20.2 30.4#

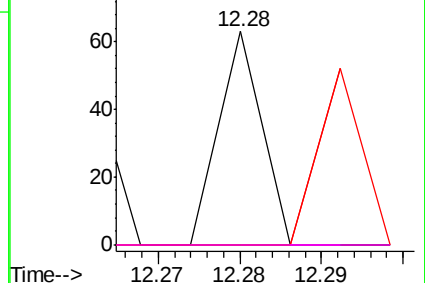
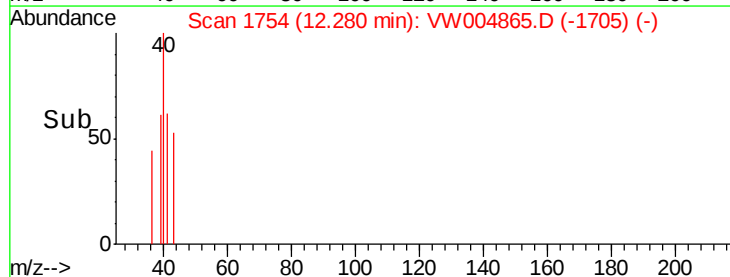


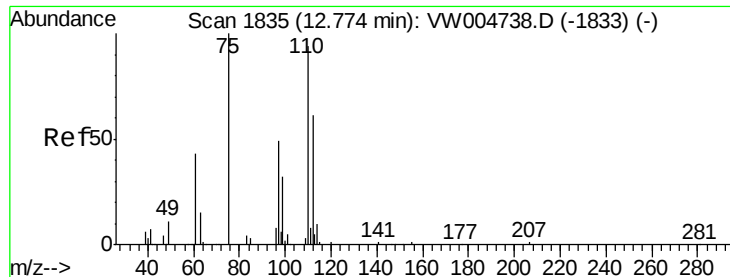
Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW





#76

1,2,3-Trichloropropane

Concen: 58.102 ug/l

RT: 12.63 min Scan# 1811

Delta R.T. -0.15 min

Lab File: VW004865.D

Acq: 22 Aug 2018 03:37

Instrument :

MSVOA\_W

ClientSampleId :

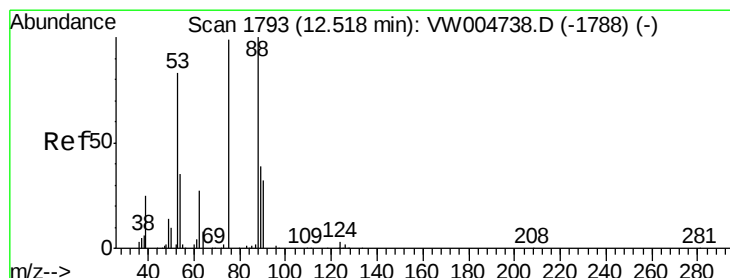
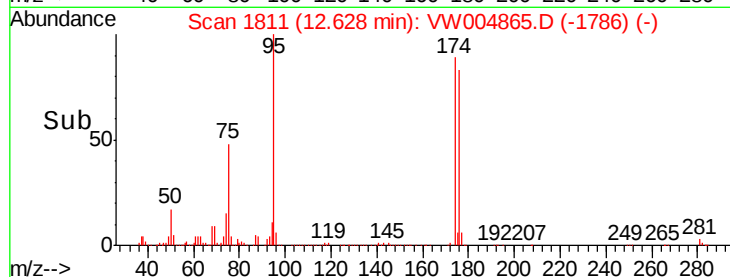
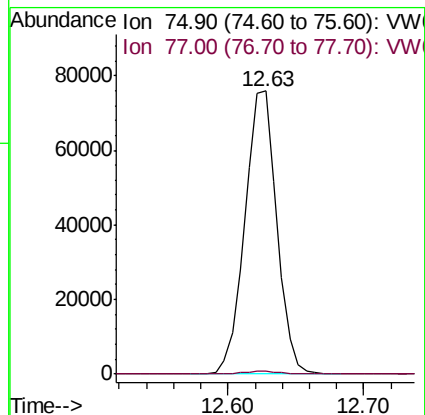
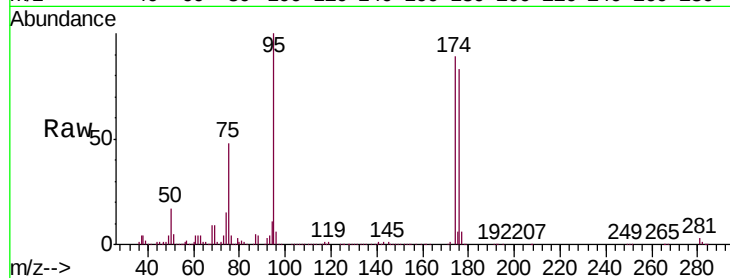
CL-01-082018-C

Tgt Ion: 75 Resp: 124633

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 135.046 ug/l

RT: 12.63 min Scan# 1811

Delta R.T. 0.11 min

Lab File: VW004865.D

Acq: 22 Aug 2018 03:37

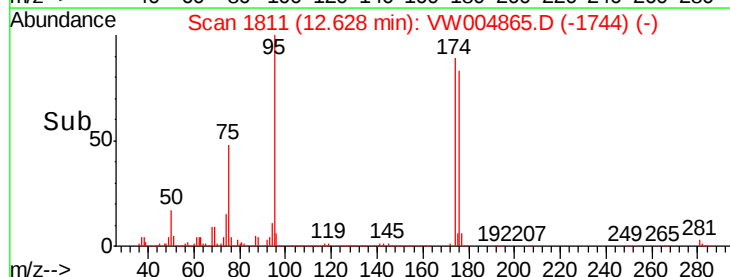
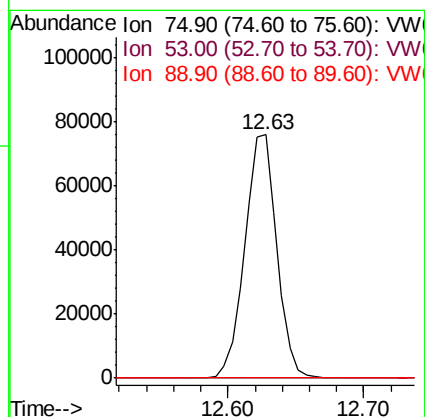
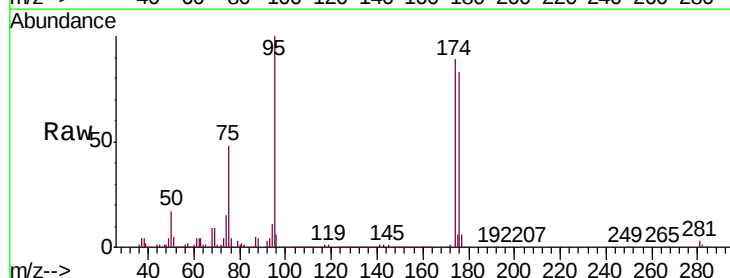
Tgt Ion: 75 Resp: 124633

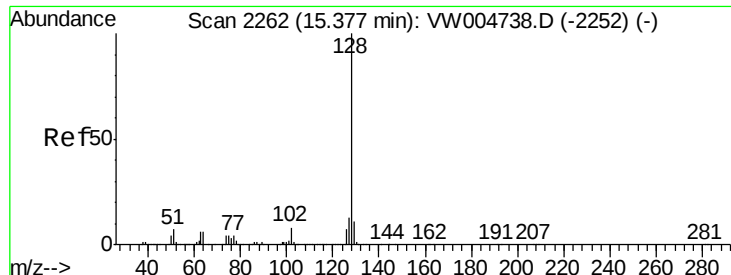
Ion Ratio Lower Upper

75 100

53 0.1 72.2 108.4#

89 0.0 35.2 52.8#





#95

Naphthalene

Concen: 5.256 ug/l

RT: 15.38 min Scan# 2262

Delta R.T. 0.00 min

Lab File: VW004865.D

Acq: 22 Aug 2018 03:37

Instrument :

MSVOA\_W

ClientSampleId :

CL-01-082018-C

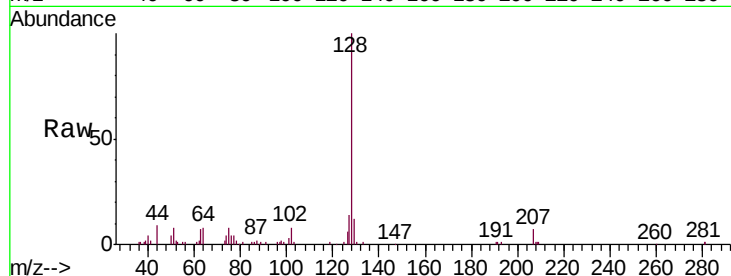
Tgt Ion:128 Resp: 18862

Ion Ratio Lower Upper

128 100

127 15.8 10.4 15.6#

129 11.5 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

15000 Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

