

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW090118\  
 Data File : VW005074.D  
 Acq On : 01 Sep 2018 09:06  
 Operator : SY/AP  
 Sample : J4710-01RE  
 Misc : 5.54G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 ENY-SB-04-9.5-10RE

Quant Time: Sep 03 23:54:30 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W090118S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Sep 01 03:35:05 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.96  | 168  | 350009   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 545956   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 529436   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 242791   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.31  | 65   | 124584   | 42.94 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 85.88% |          |
| 35) Dibromofluoromethane    | 7.89  | 113  | 124193   | 39.36 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 78.72% |          |
| 50) Toluene-d8              | 10.33 | 98   | 479530   | 32.99 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 65.98% |          |
| 62) 4-Bromofluorobenzene    | 12.63 | 95   | 156063   | 30.44 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 60.88% |          |

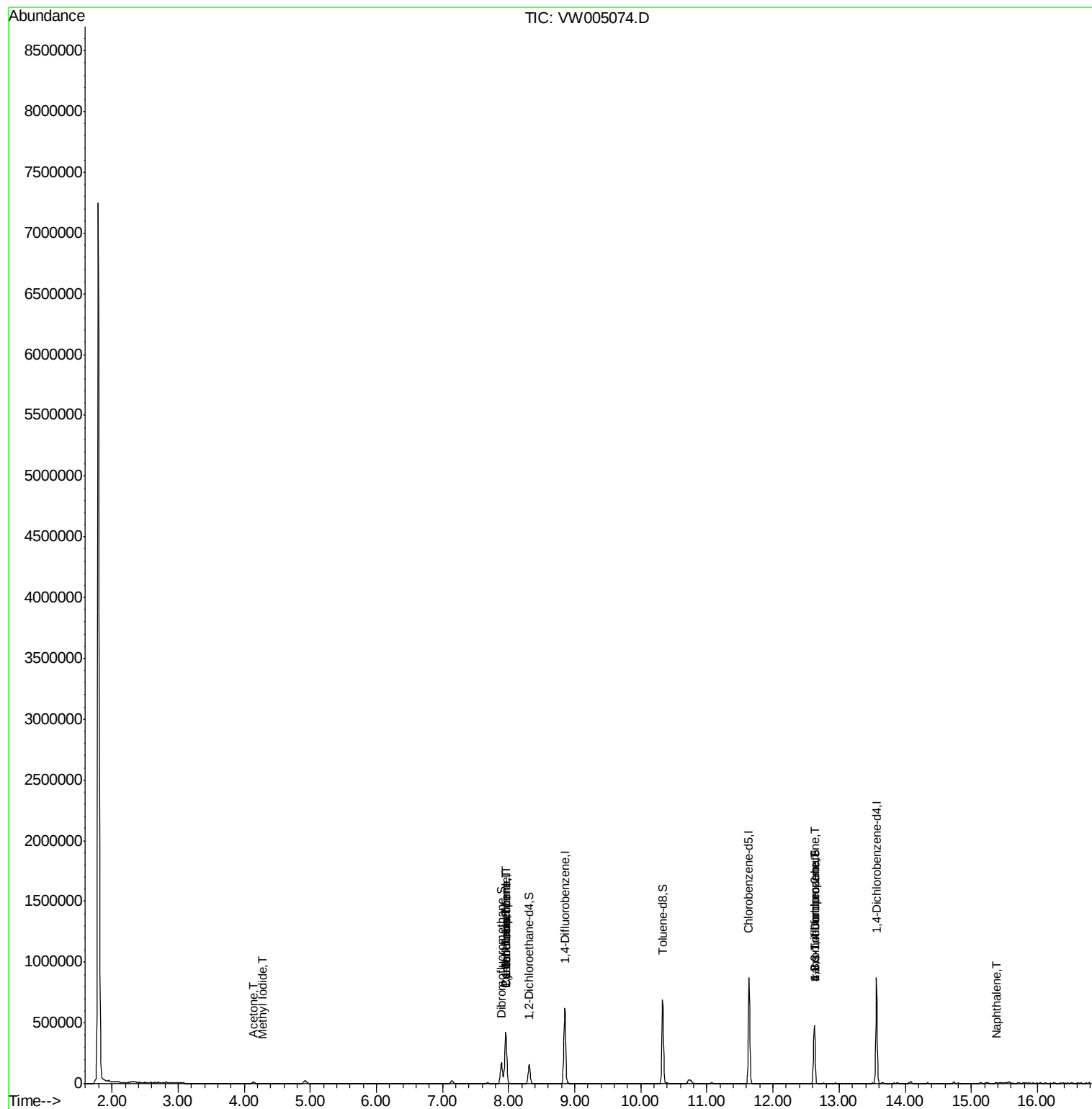
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 2.78  | 94   | 604      | Below Cal | #      | 39     |
| 10) Methyl Iodide              | 4.28  | 142  | 597      | 3.939     | ug/l # | 84     |
| 11) Tert butyl alcohol         | 5.14  | 59   | 649      | Below Cal | #      | 72     |
| 16) Acetone                    | 4.14  | 43   | 20324    | 34.929    | ug/l   | 100    |
| 31) Cyclohexane                | 7.96  | 56   | 5809     | 1.019     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 23485    | 4.517     | ug/l # | 47     |
| 38) Carbon Tetrachloride       | 7.96  | 117  | 30876    | 6.245     | ug/l # | 17     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 71301    | 39.124    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 71301    | 94.167    | ug/l # | 15     |
| 95) Naphthalene                | 15.38 | 128  | 2854     | 4.280     | ug/l   | 95     |

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

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Acq On : 01 Sep 2018 09:06  
Operator : SY/AP  
Sample : J4710-01RE  
Misc : 5.54G/5ML/MSVOA\_W/SOIL  
ALS Vial : 27 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
ENY-SB-04-9.5-10RE

Quant Time: Sep 03 23:54:30 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W090118S.M  
Quant Title : SW846 8260  
QLast Update : Sat Sep 01 03:35:05 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.96 min Scan# 1045

Delta R.T. 0.00 min

Lab File: VW005074.D

Acq: 01 Sep 2018 09:06

Instrument :

MSVOA\_W

ClientSampleId :

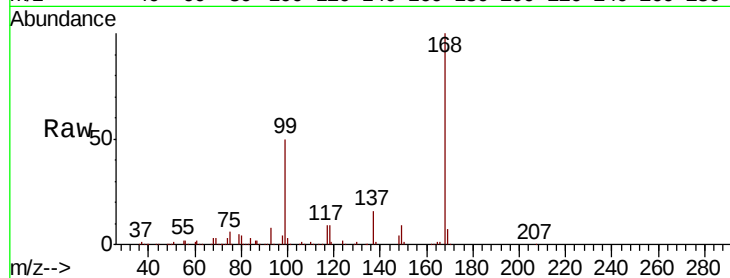
ENY-SB-04-9.5-10RE

Tgt Ion: 168 Resp: 350009

Ion Ratio Lower Upper

168 100

99 50.3 39.4 59.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.96

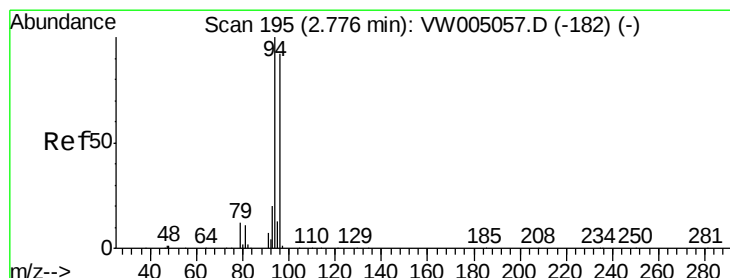
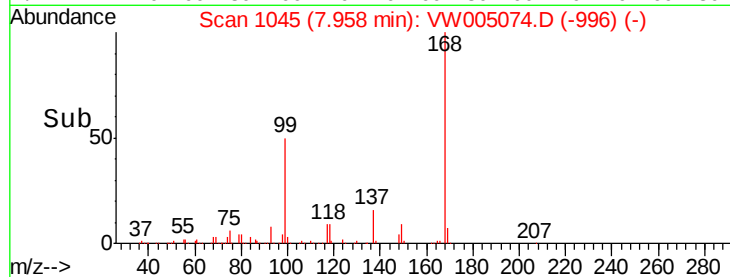
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.78 min Scan# 195

Delta R.T. 0.00 min

Lab File: VW005074.D

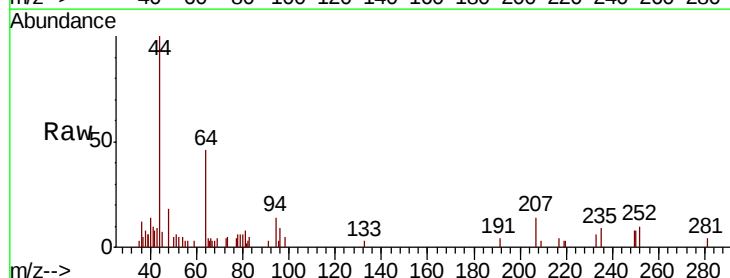
Acq: 01 Sep 2018 09:06

Tgt Ion: 94 Resp: 604

Ion Ratio Lower Upper

94 100

96 33.1 73.2 109.8#



Abundance Ion 93.90 (93.60 to 94.60): VW

Ion 95.90 (95.60 to 96.60): VW

2.78

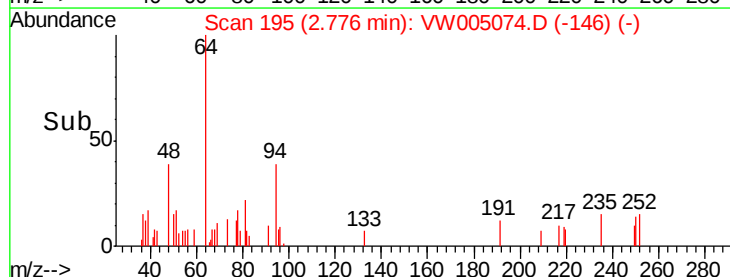
300

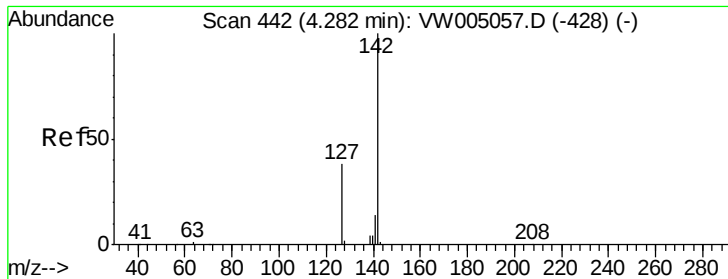
200

100

0

Time-->

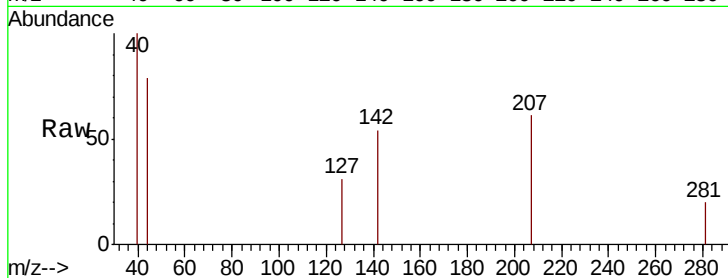




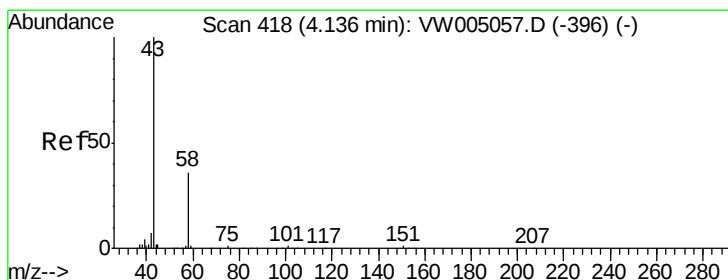
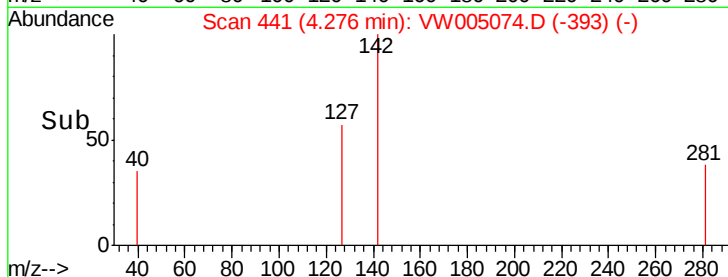
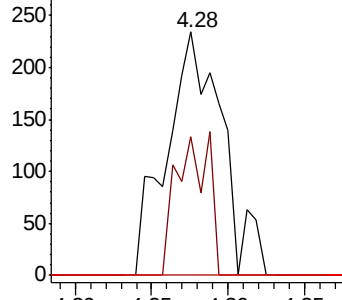
#10  
Methyl Iodide  
Concen: 3.939 ug/l  
RT: 4.28 min Scan# 441  
Delta R.T. -0.01 min  
Lab File: VW005074.D  
Acq: 01 Sep 2018 09:06

Instrument :  
MSVOA\_W  
ClientSampleId :  
ENY-SB-04-9.5-10RE

Tgt Ion:142 Resp: 597  
Ion Ratio Lower Upper  
142 100  
127 33.5 30.8 46.2  
141 0.0 11.6 17.4#

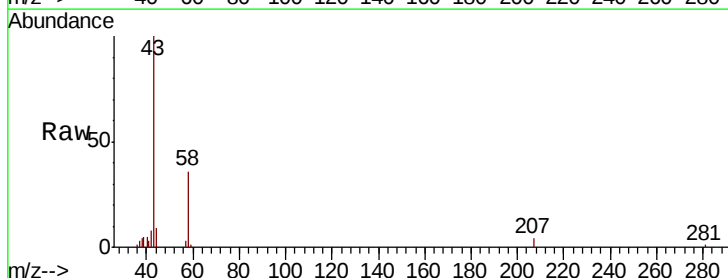


Abundance Ion 141.80 (141.50 to 142.50): V  
Ion 126.80 (126.50 to 127.50): V  
Ion 140.80 (140.50 to 141.50): V

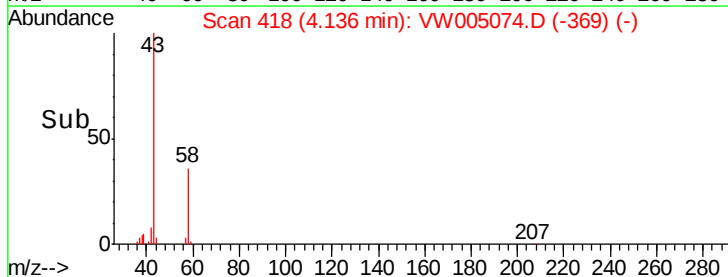
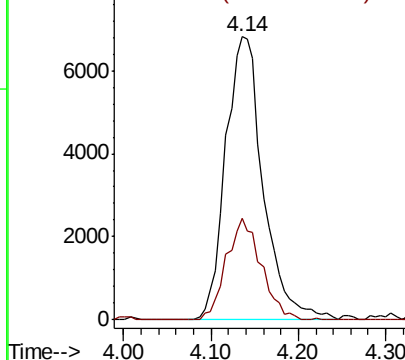


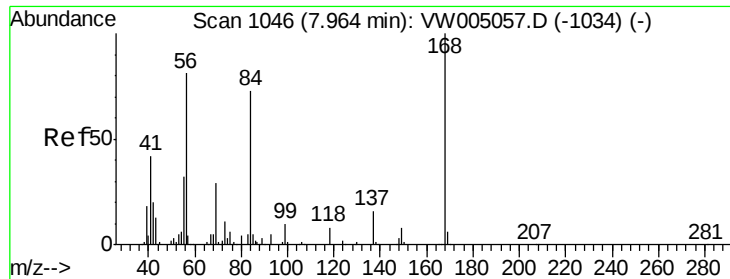
#16  
Acetone  
Concen: 34.929 ug/l  
RT: 4.14 min Scan# 418  
Delta R.T. 0.00 min  
Lab File: VW005074.D  
Acq: 01 Sep 2018 09:06

Tgt Ion: 43 Resp: 20324  
Ion Ratio Lower Upper  
43 100  
58 36.0 29.0 43.6



Abundance Ion 43.00 (42.70 to 43.70): VW  
Ion 58.00 (57.70 to 58.70): VW

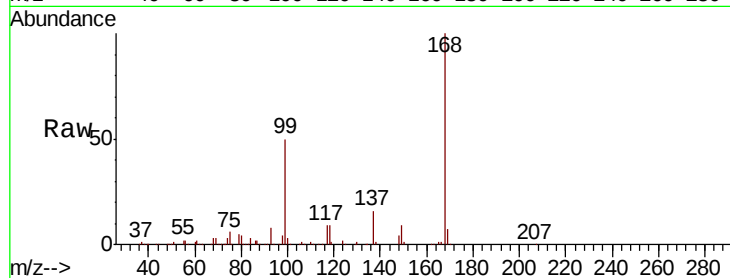




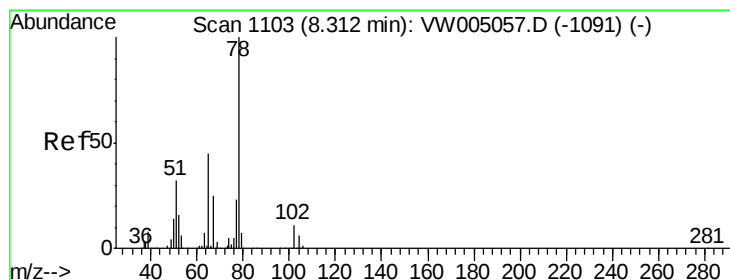
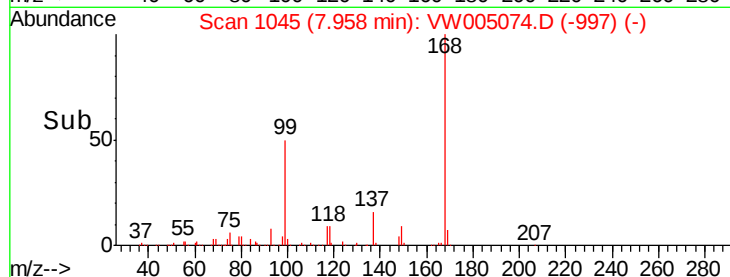
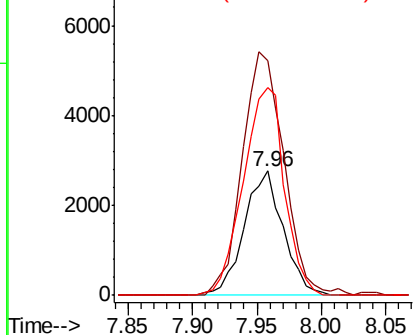
#31  
Cyclohexane  
Concen: 1.019 ug/l  
RT: 7.96 min Scan# 1045  
Delta R.T. -0.01 min  
Lab File: VW005074.D  
Acq: 01 Sep 2018 09:06

Instrument :  
MSVOA\_W  
ClientSampleId :  
ENY-SB-04-9.5-10RE

Tgt Ion: 56 Resp: 5809  
Ion Ratio Lower Upper  
56 100  
69 189.2 28.2 42.2#  
84 167.5 71.8 107.8#

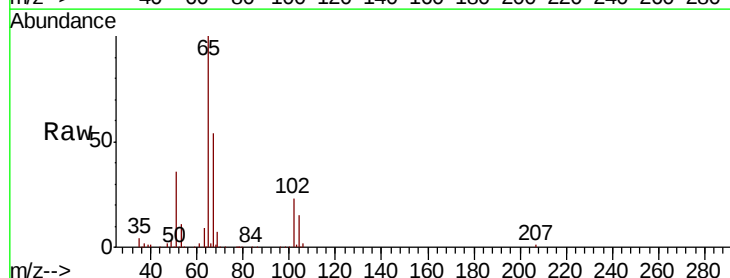


Abundance Ion 56.00 (55.70 to 56.70): VW  
Ion 69.00 (68.70 to 69.70): VW  
Ion 84.00 (83.70 to 84.70): VW

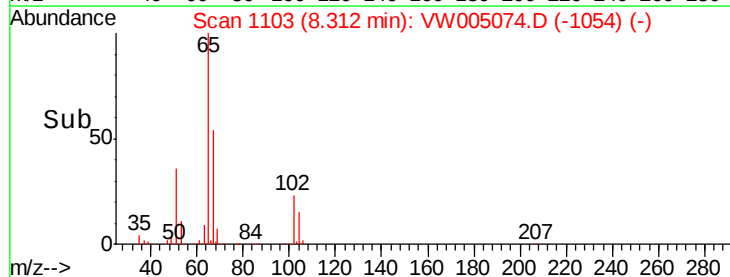
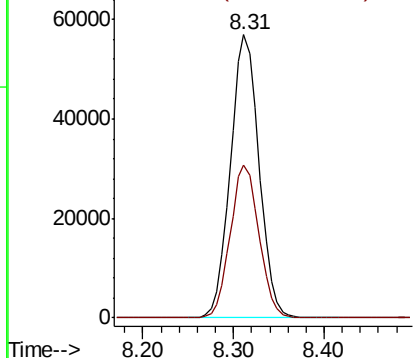


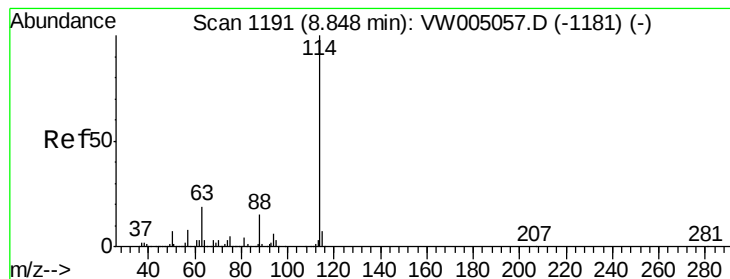
#33  
1,2-Dichloroethane-d4  
Concen: 42.939 ug/l  
RT: 8.31 min Scan# 1103  
Delta R.T. 0.00 min  
Lab File: VW005074.D  
Acq: 01 Sep 2018 09:06

Tgt Ion: 65 Resp: 124584  
Ion Ratio Lower Upper  
65 100  
67 54.3 0.0 109.4



Abundance Ion 64.90 (64.60 to 65.60): VW  
Ion 66.90 (66.60 to 67.60): VW





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.85 min Scan# 1191

Delta R.T. 0.00 min

Lab File: VW005074.D

Acq: 01 Sep 2018 09:06

Instrument :

MSVOA\_W

ClientSampleId :

ENY-SB-04-9.5-10RE

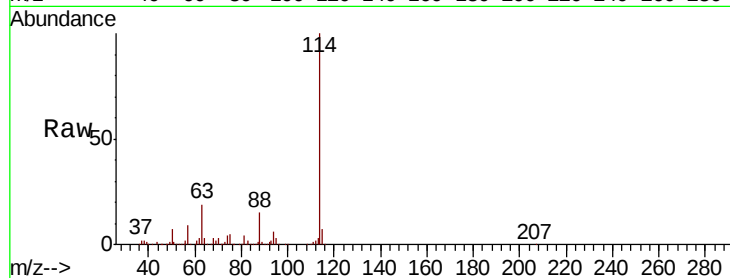
Tgt Ion:114 Resp: 545956

Ion Ratio Lower Upper

114 100

63 18.7 0.0 38.0

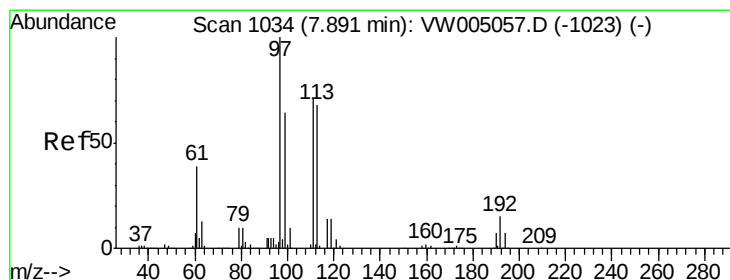
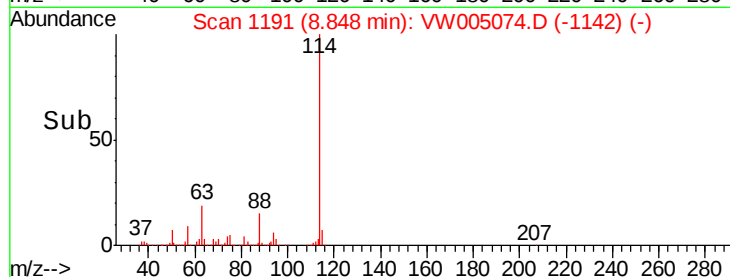
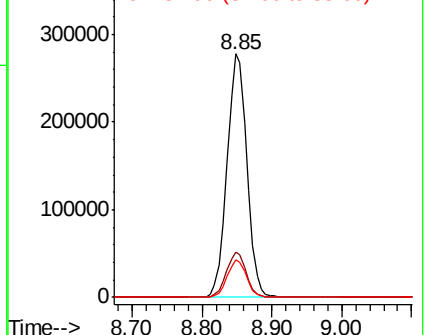
88 15.3 0.0 30.2



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: 39.364 ug/l

RT: 7.89 min Scan# 1034

Delta R.T. 0.00 min

Lab File: VW005074.D

Acq: 01 Sep 2018 09:06

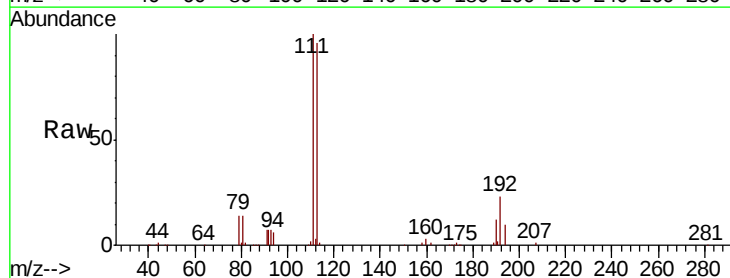
Tgt Ion:113 Resp: 124193

Ion Ratio Lower Upper

113 100

111 103.2 82.2 123.2

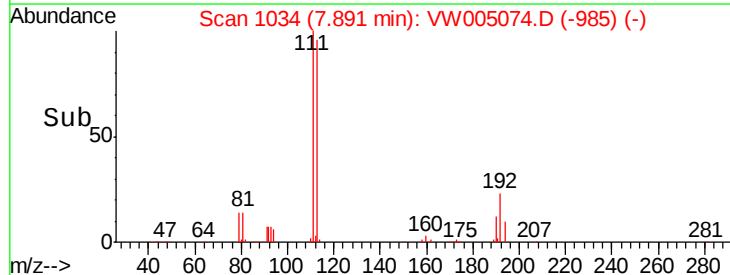
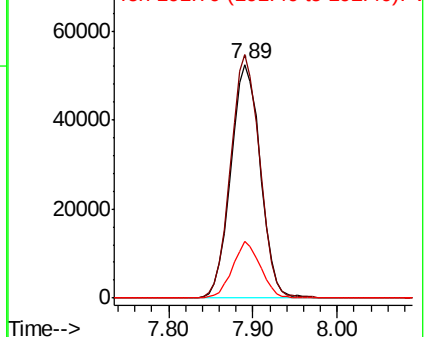
192 22.9 18.1 27.1

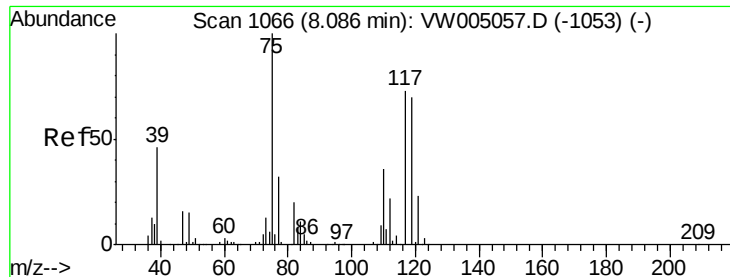


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

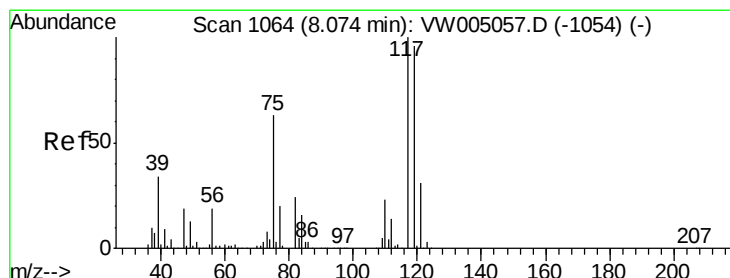
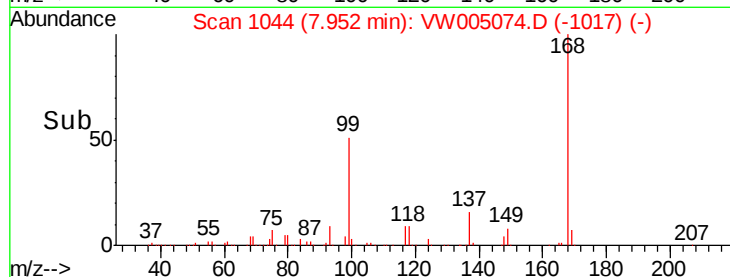
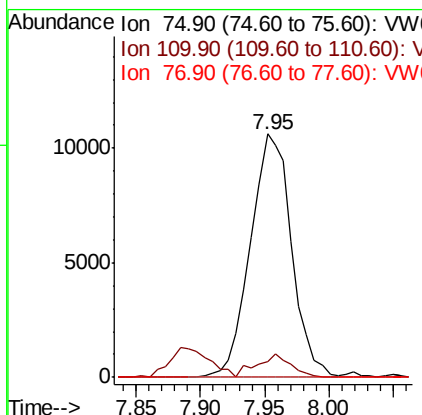
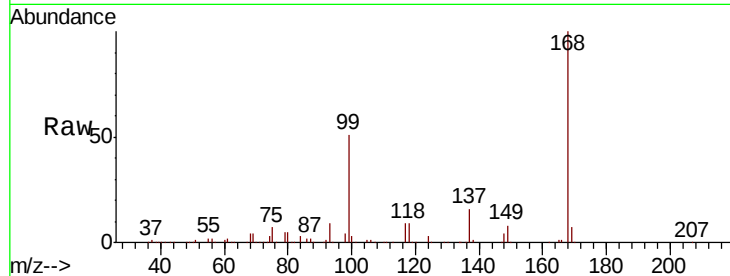




#36  
 1,1-Dichloropropene  
 Concen: 4.517 ug/l  
 RT: 7.95 min Scan# 1044  
 Delta R.T. -0.13 min  
 Lab File: VW005074.D  
 Acq: 01 Sep 2018 09:06

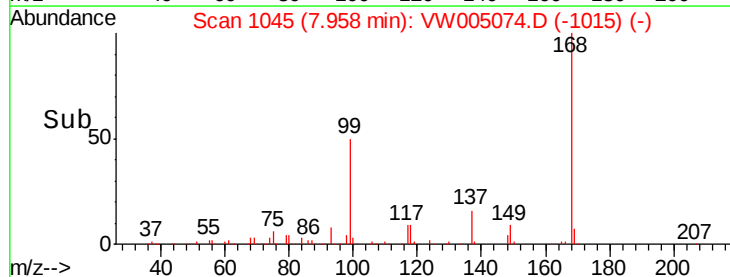
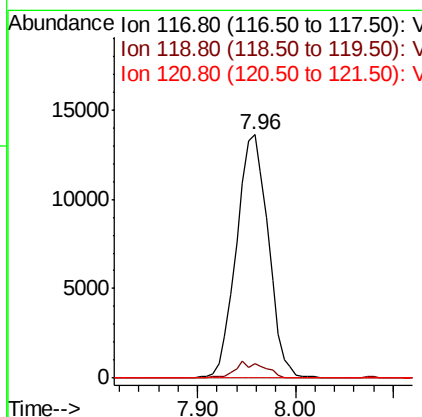
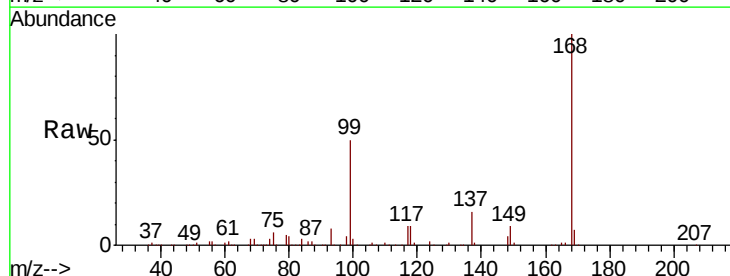
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 ENY-SB-04-9.5-10RE

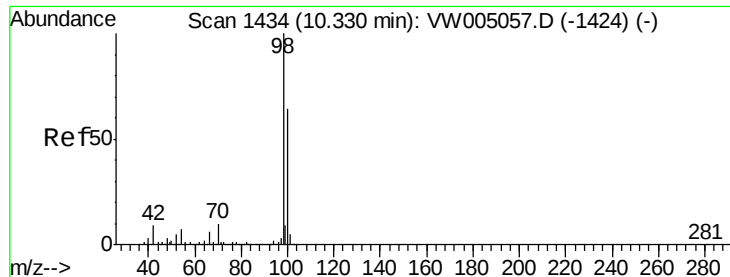
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 8.0   | 18.9  | 56.7# |
| 77      | 0.0   | 25.5  | 38.3# |



#38  
 Carbon Tetrachloride  
 Concen: 6.245 ug/l  
 RT: 7.96 min Scan# 1045  
 Delta R.T. -0.12 min  
 Lab File: VW005074.D  
 Acq: 01 Sep 2018 09:06

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 5.9   | 76.6  | 115.0# |
| 121     | 0.0   | 24.8  | 37.2#  |





#50

Toluene-d8

Concen: 32.985 ug/l

RT: 10.33 min Scan# 1434

Delta R.T. 0.00 min

Lab File: VW005074.D

Acq: 01 Sep 2018 09:06

Instrument :

MSVOA\_W

ClientSampleId :

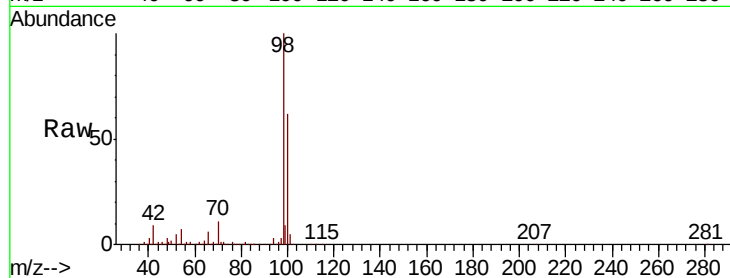
ENY-SB-04-9.5-10RE

Tgt Ion: 98 Resp: 479530

Ion Ratio Lower Upper

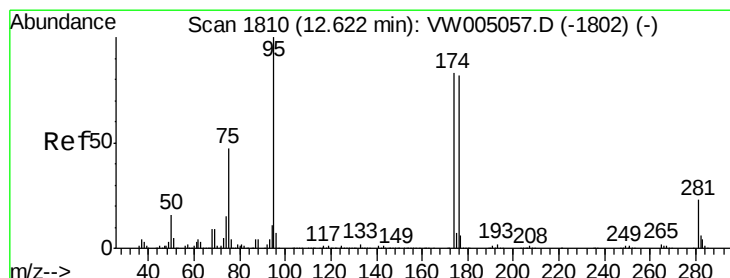
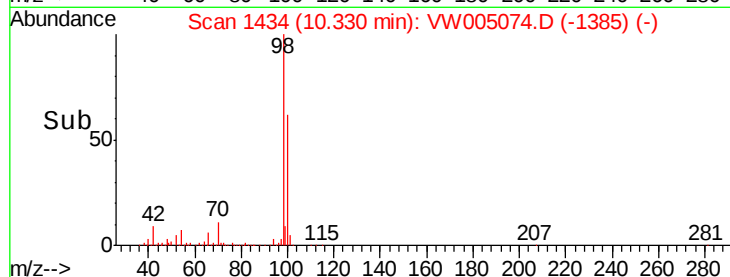
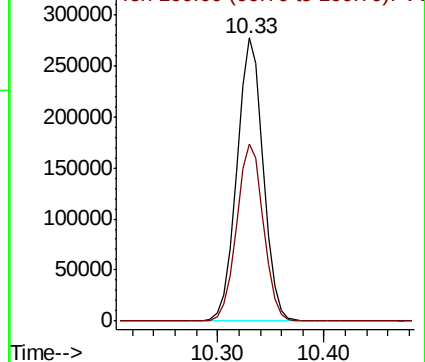
98 100

100 63.8 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW



#62

4-Bromofluorobenzene

Concen: 30.445 ug/l

RT: 12.63 min Scan# 1811

Delta R.T. 0.01 min

Lab File: VW005074.D

Acq: 01 Sep 2018 09:06

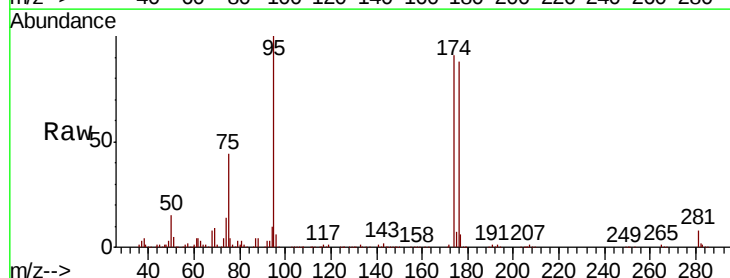
Tgt Ion: 95 Resp: 156063

Ion Ratio Lower Upper

95 100

174 89.1 0.0 173.4

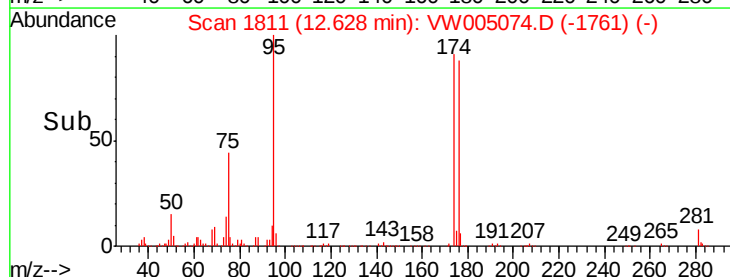
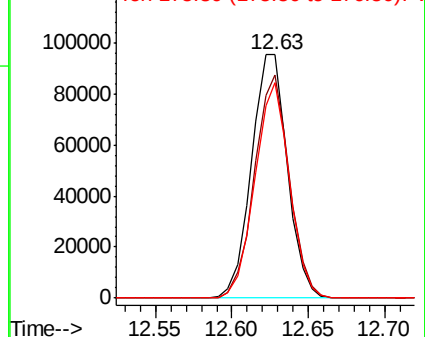
176 85.3 0.0 167.4

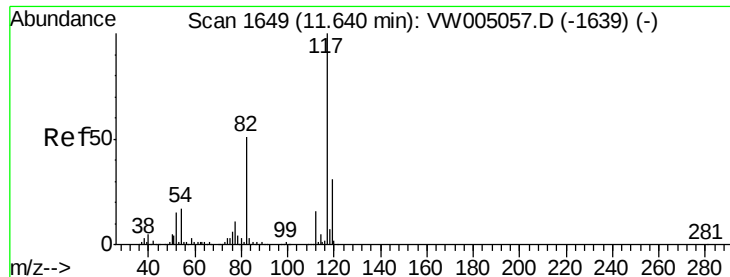


Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

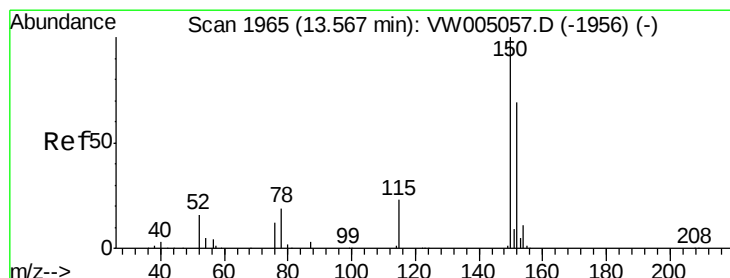
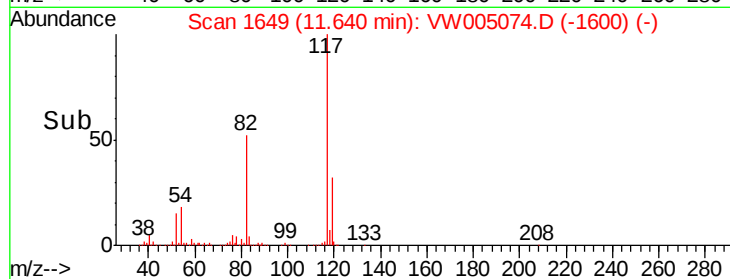
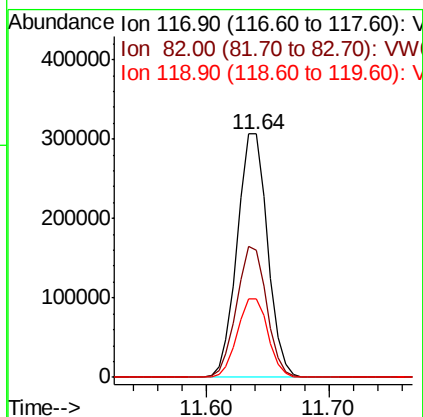
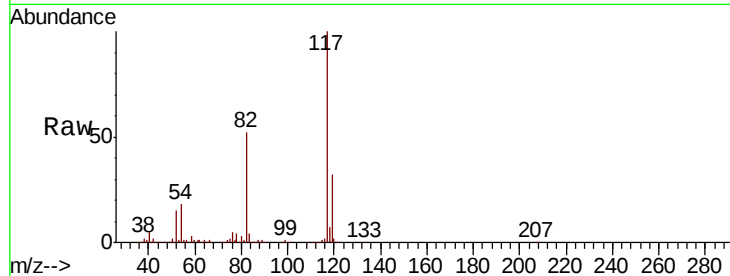




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.64 min Scan# 1649  
Delta R.T. 0.00 min  
Lab File: VW005074.D  
Acq: 01 Sep 2018 09:06

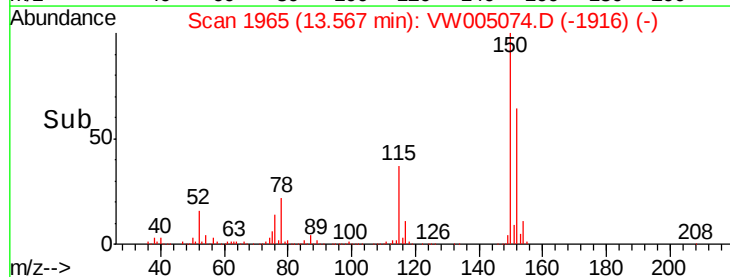
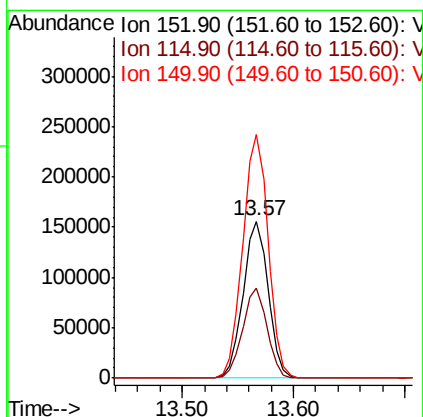
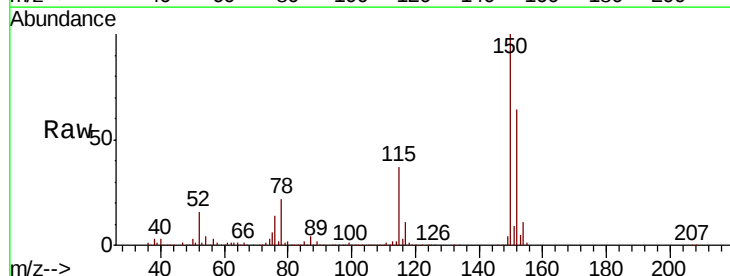
Instrument :  
MSVOA\_W  
ClientSampleId :  
ENY-SB-04-9.5-10RE

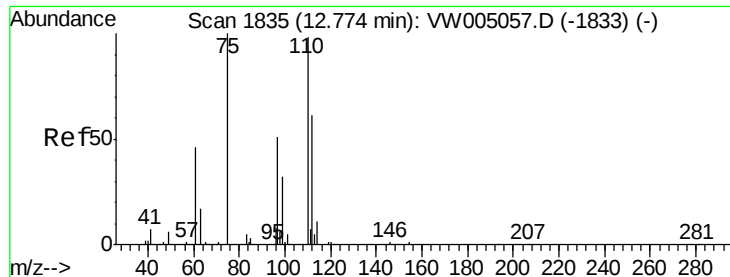
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 52.2  | 40.9  | 61.3  |
| 119     | 32.3  | 24.9  | 37.3  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.57 min Scan# 1965  
Delta R.T. 0.00 min  
Lab File: VW005074.D  
Acq: 01 Sep 2018 09:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 56.5  | 27.8  | 83.4  |
| 150     | 157.8 | 0.0   | 351.4 |





#76

1,2,3-Trichloropropane

Concen: 39.124 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. -0.15 min

Lab File: VW005074.D

Acq: 01 Sep 2018 09:06

Instrument :

MSVOA\_W

ClientSampleId :

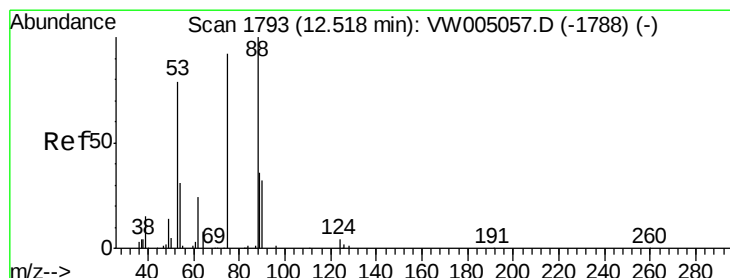
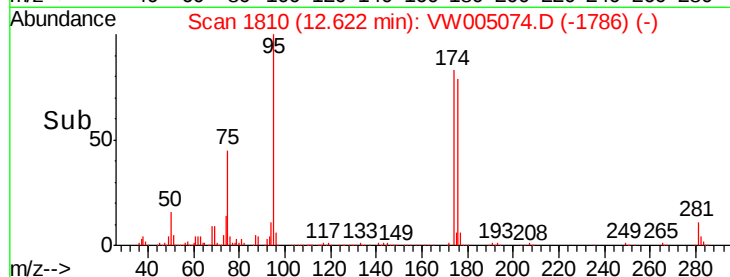
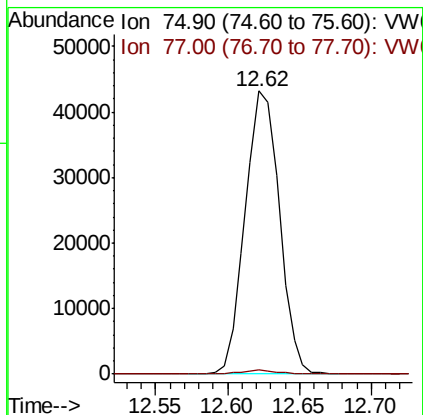
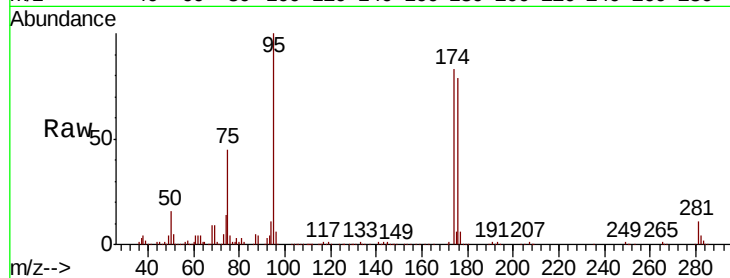
ENY-SB-04-9.5-10RE

Tgt Ion: 75 Resp: 71301

Ion Ratio Lower Upper

75 100

77 1.7 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 94.167 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. 0.10 min

Lab File: VW005074.D

Acq: 01 Sep 2018 09:06

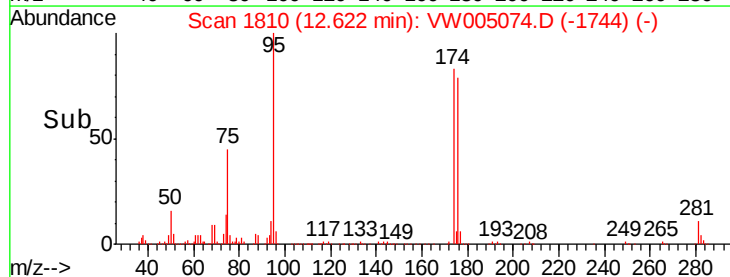
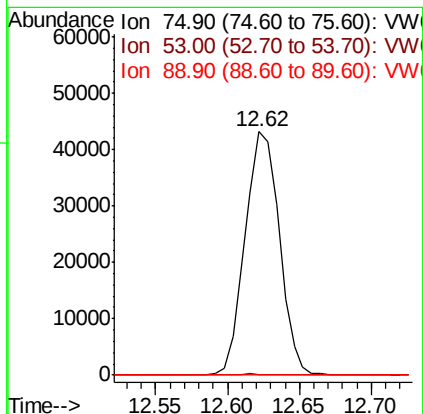
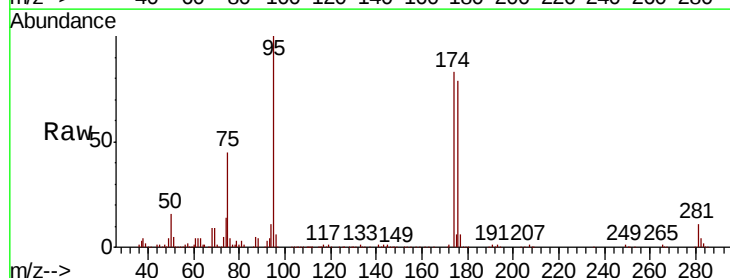
Tgt Ion: 75 Resp: 71301

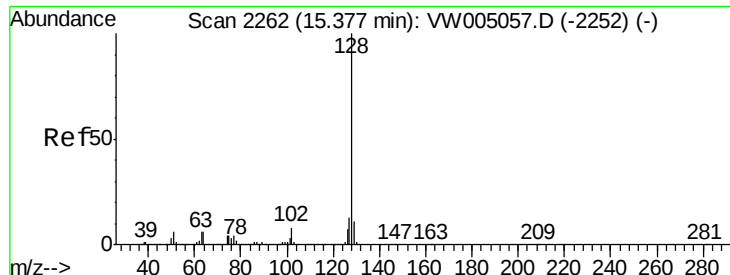
Ion Ratio Lower Upper

75 100

53 0.3 69.8 104.8#

89 0.0 36.0 54.0#





#95

Naphthalene

Concen: 4.280 ug/l

RT: 15.38 min Scan# 2262

Delta R.T. 0.00 min

Lab File: VW005074.D

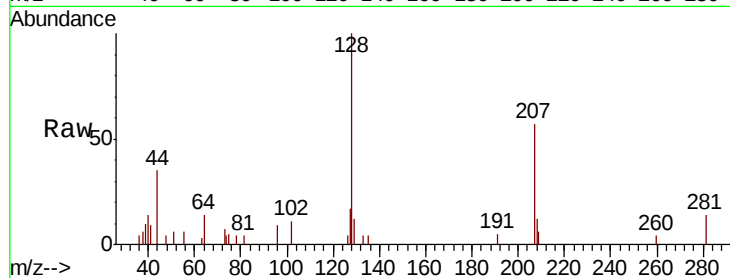
Acq: 01 Sep 2018 09:06

Instrument :

MSVOA\_W

ClientSampleId :

ENY-SB-04-9.5-10RE



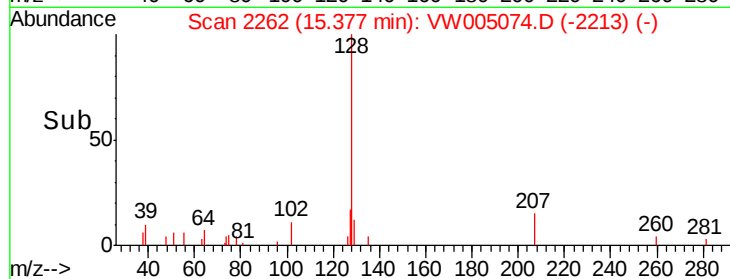
Tgt Ion:128 Resp: 2854

Ion Ratio Lower Upper

128 100

127 15.1 10.4 15.6

129 8.9 8.7 13.1



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

