

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW090418\  
 Data File : VW005085.D  
 Acq On : 04 Sep 2018 17:41  
 Operator : SY/AP  
 Sample : J4687-01  
 Misc : 3.08G/5ML/MSVOA W/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Sep 04 18:03:41 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  | 232752   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 302242   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 179435   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 27540    | 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   | 123153   | 63.83 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 127.66% |          |
| 35) Dibromofluoromethane    | 7.89  | 113  | 130350   | 74.63 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 149.26% |          |
| 50) Toluene-d8              | 10.33 | 98   | 261412   | 32.48 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 64.96%  |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 31059    | 10.94 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 21.88%  |          |

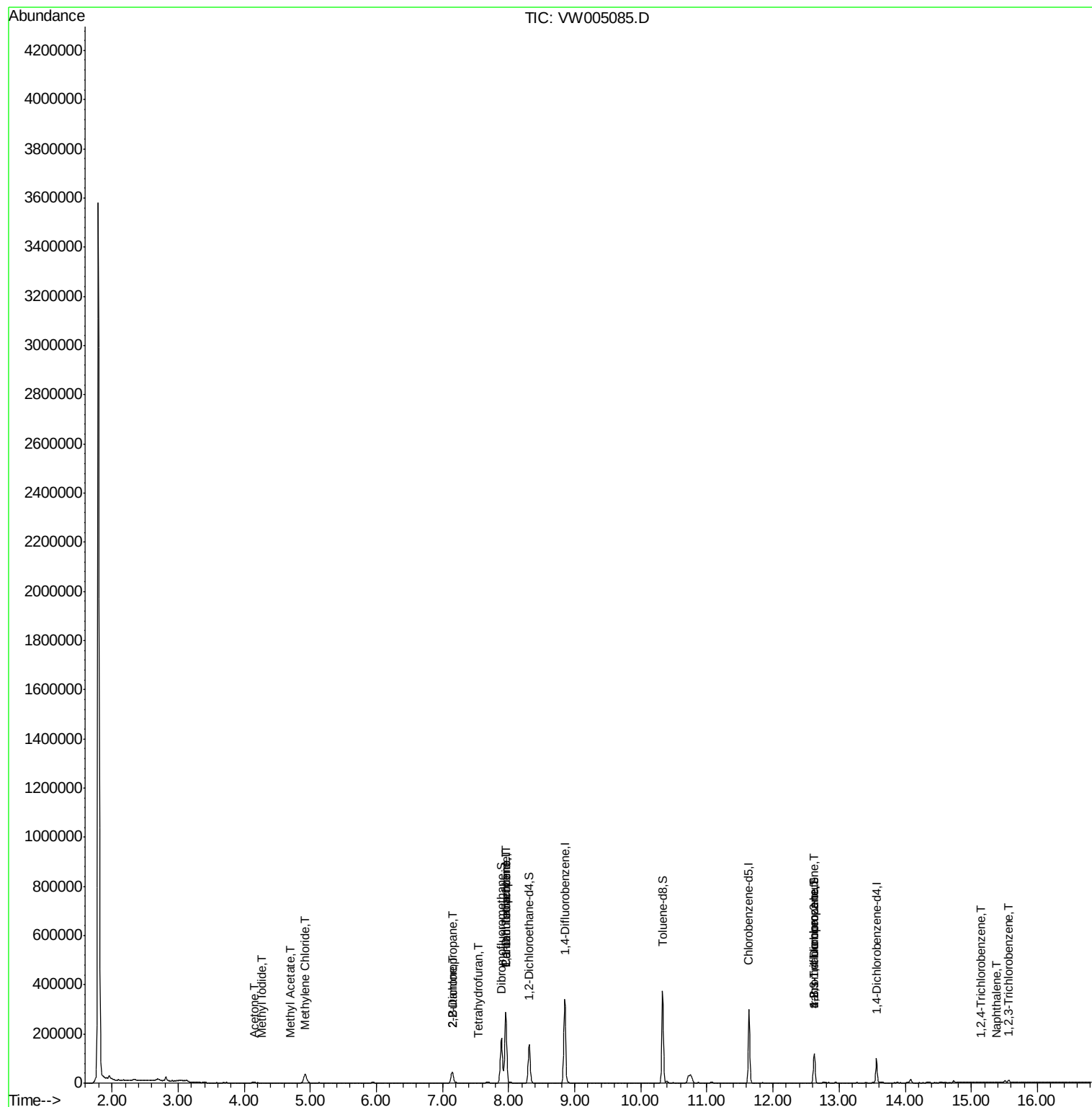
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 2.79  | 94   | 756      | Below Cal | #      | 35     |
| 10) Methyl Iodide              | 4.27  | 142  | 446      | 3.953     | ug/l # | 76     |
| 11) Tert butyl alcohol         | 5.12  | 59   | 497      | Below Cal | #      | 72     |
| 16) Acetone                    | 4.14  | 43   | 4532     | 11.712    | ug/l   | 100    |
| 18) Methyl Acetate             | 4.68  | 43   | 1743     | 1.531     | ug/l   | 97     |
| 20) Methylene Chloride         | 4.92  | 84   | 30465    | 8.417     | ug/l   | 94     |
| 25) 2-Butanone                 | 7.14  | 43   | 1147     | 1.709     | ug/l # | 79     |
| 26) 2,2-Dichloropropane        | 7.15  | 77   | 3202     | 1.007     | ug/l # | 51     |
| 29) Tetrahydrofuran            | 7.54  | 42   | 455      | 1.327     | ug/l # | 68     |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 15768    | 5.478     | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 7.96  | 117  | 21282    | 7.776     | ug/l # | 18     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 15064    | 72.871    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 15064    | 175.392   | ug/l # | 14     |
| 93) 1,2,4-Trichlorobenzene     | 15.15 | 180  | 591      | 1.029     | ug/l # | 92     |
| 95) Naphthalene                | 15.38 | 128  | 1408     | 5.285     | ug/l # | 87     |
| 96) 1,2,3-Trichlorobenzene     | 15.57 | 180  | 596      | 1.212     | ug/l   | 94     |

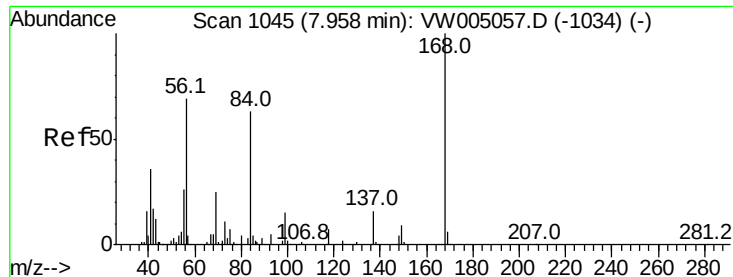
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW090418\  
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Sample : J4687-01  
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ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :

Quant Time: Sep 04 18:03:41 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: VW005085.D

Acq: 04 Sep 2018 17:41

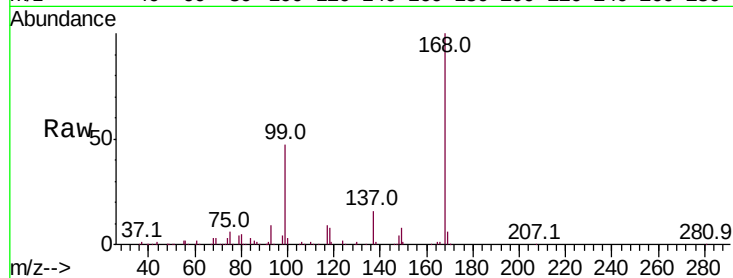
Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion:168 Resp: 232752

Ion Ratio Lower Upper

168 100

99 46.5 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

120000

100000

80000

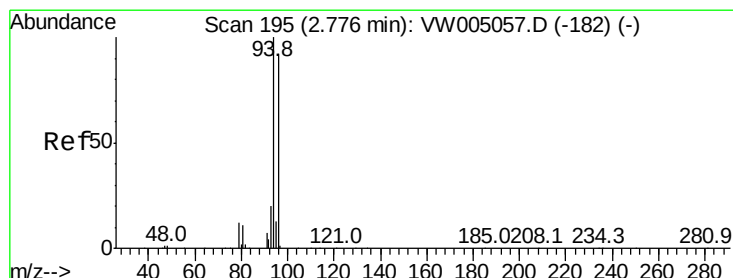
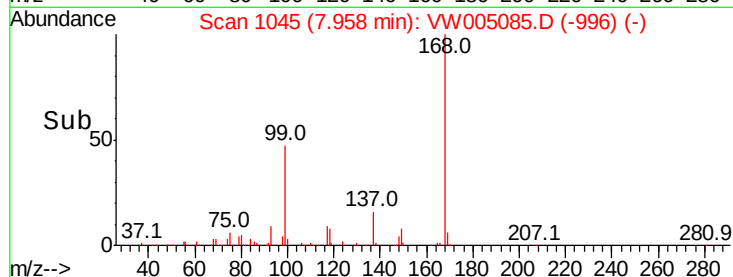
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.79 min Scan# 197

Delta R.T. 0.01 min

Lab File: VW005085.D

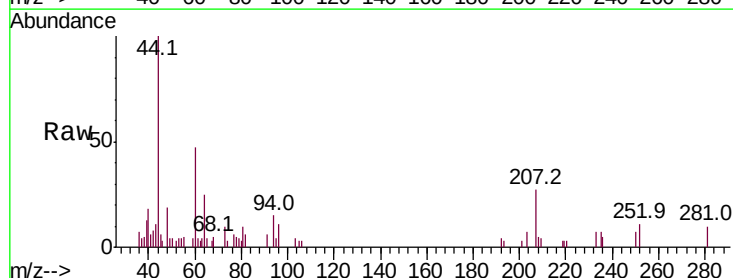
Acq: 04 Sep 2018 17:41

Tgt Ion: 94 Resp: 756

Ion Ratio Lower Upper

94 100

96 30.0 73.2 109.8#



Abundance Ion 93.90 (93.60 to 94.60): VW

Ion 95.90 (95.60 to 96.60): VW

2.79

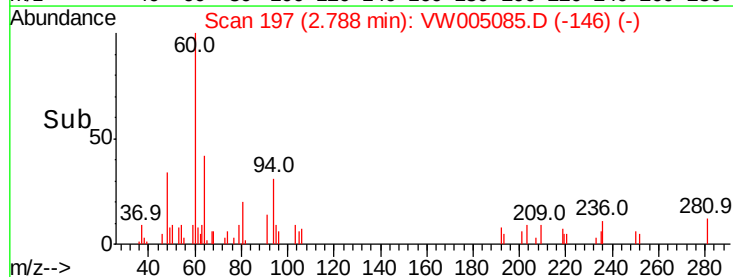
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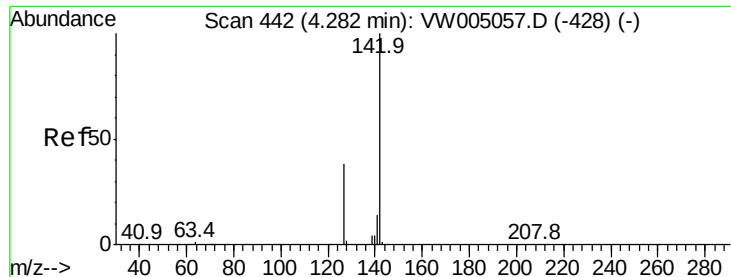
200

100

0

Time-->

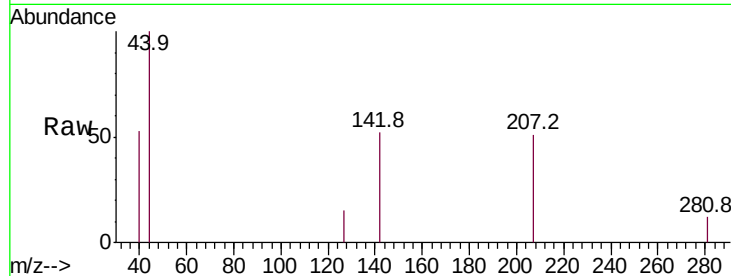




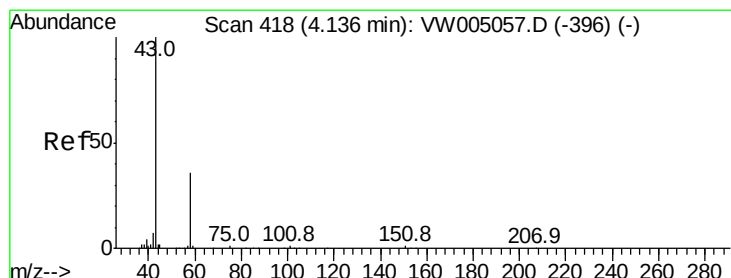
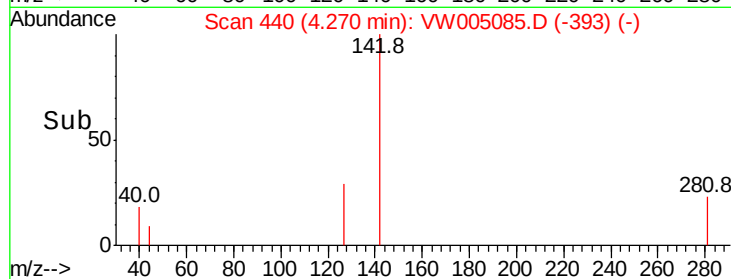
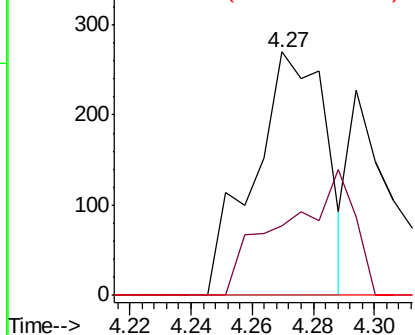
#10  
Methvl Iodide  
Concen: 3.953 ug/l  
RT: 4.27 min Scan# 440  
Delta R.T. -0.01 min  
Lab File: VW005085.D  
Acq: 04 Sep 2018 17:41

Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion:142 Resp: 446  
Ion Ratio Lower Upper  
142 100  
127 50.4 30.8 46.2#  
141 0.0 11.6 17.4#

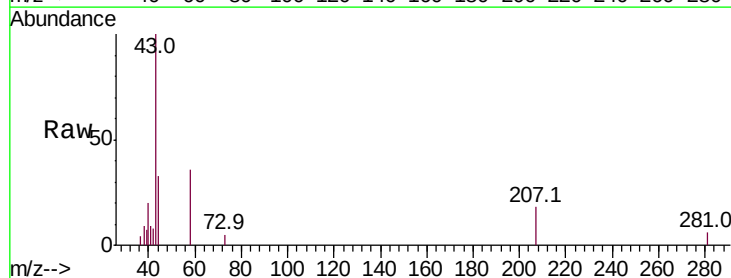


Abundance Ion 141.80 (141.50 to 142.50): V  
Ion 126.80 (126.50 to 127.50): V  
Ion 140.80 (140.50 to 141.50): V

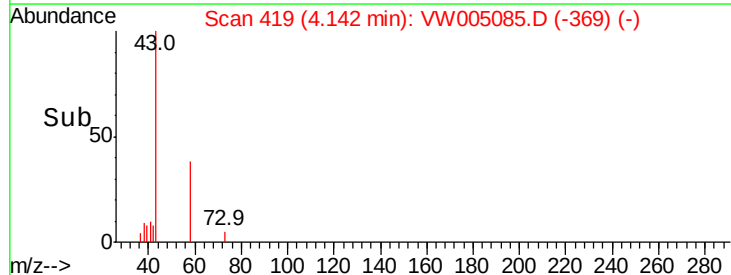
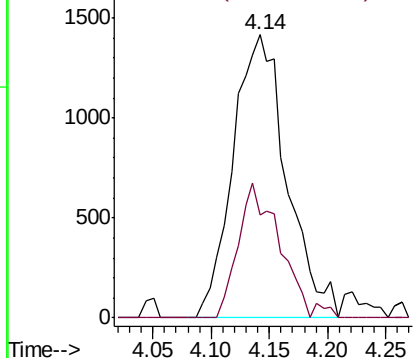


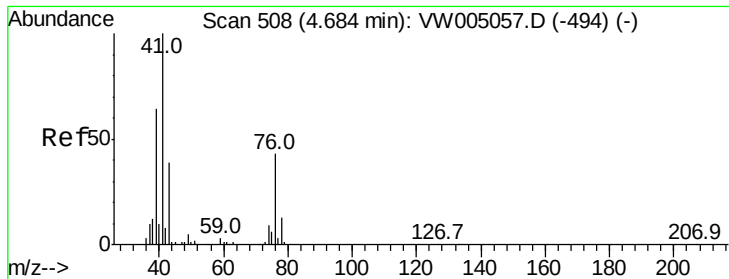
#16  
Acetone  
Concen: 11.712 ug/l  
RT: 4.14 min Scan# 419  
Delta R.T. 0.01 min  
Lab File: VW005085.D  
Acq: 04 Sep 2018 17:41

Tgt Ion: 43 Resp: 4532  
Ion Ratio Lower Upper  
43 100  
58 36.3 29.0 43.6



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

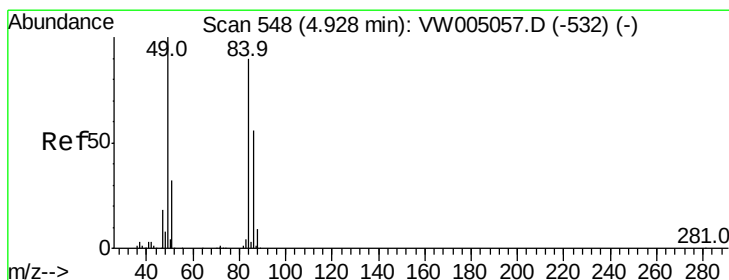
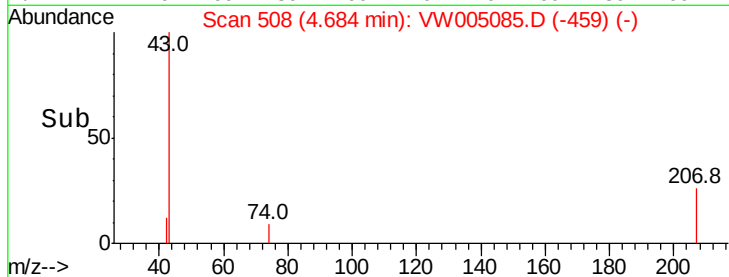
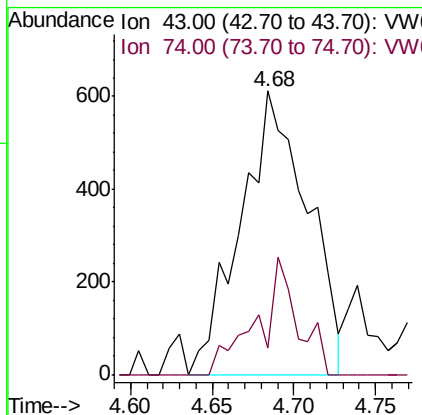
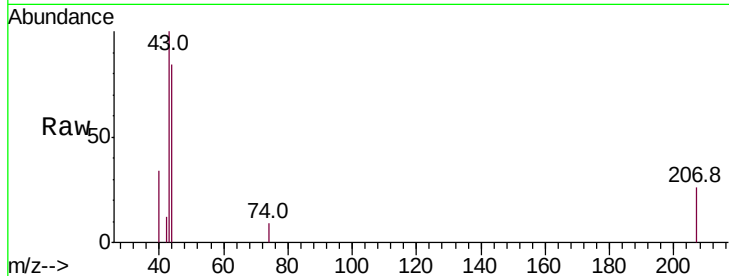




#18  
Methvl Acetate  
Concen: 1.531 ug/l  
RT: 4.68 min Scan# 508  
Delta R.T. 0.00 min  
Lab File: VW005085.D  
Acq: 04 Sep 2018 17:41

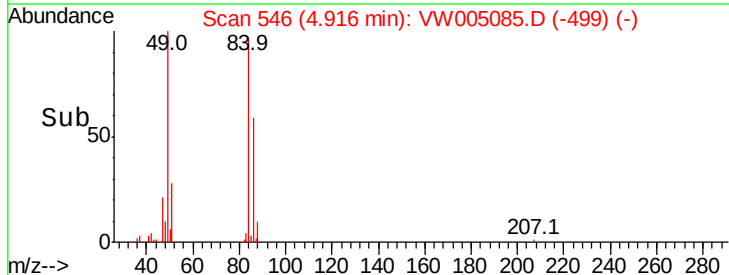
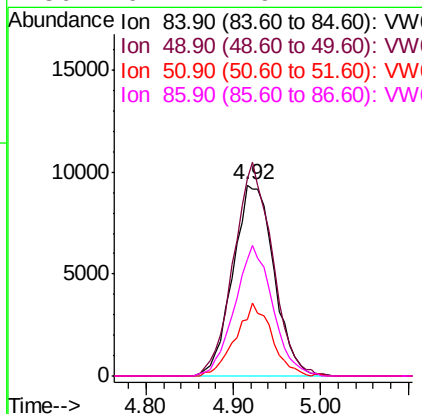
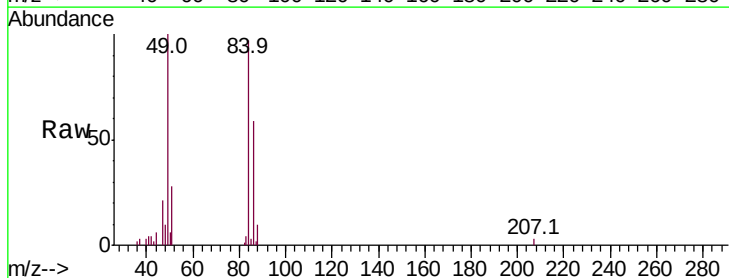
Instrument :  
MSVOA\_W  
ClientSampleId :

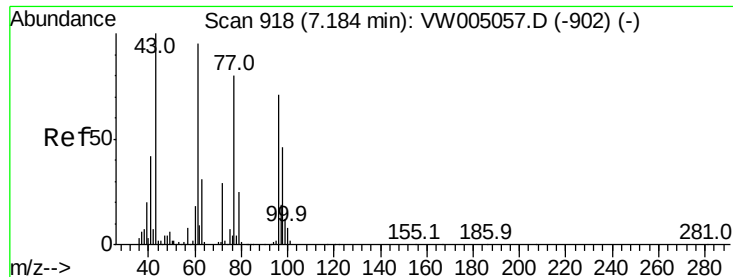
Tot Ion: 43 Resp: 1743  
Ion Ratio Lower Upper  
43 100  
74 24.5 20.7 31.1



#20  
Methylene Chloride  
Concen: 8.417 ug/l  
RT: 4.92 min Scan# 546  
Delta R.T. -0.01 min  
Lab File: VW005085.D  
Acq: 04 Sep 2018 17:41

Tgt Ion: 84 Resp: 30465  
Ion Ratio Lower Upper  
84 100  
49 103.2 88.7 133.1  
51 29.3 28.6 42.8  
86 61.1 49.4 74.2





#25

2-Butanone

Concen: 1.709 ug/l

RT: 7.14 min Scan# 911

Delta R.T. -0.04 min

Lab File: VW005085.D

Acq: 04 Sep 2018 17:41

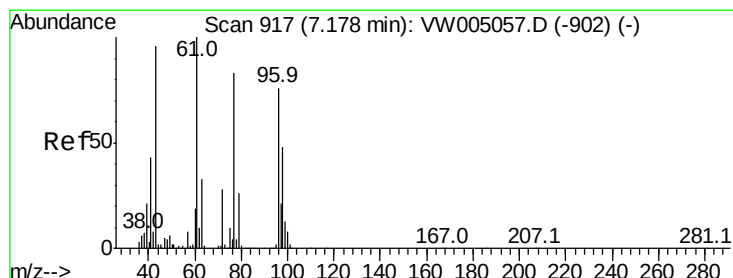
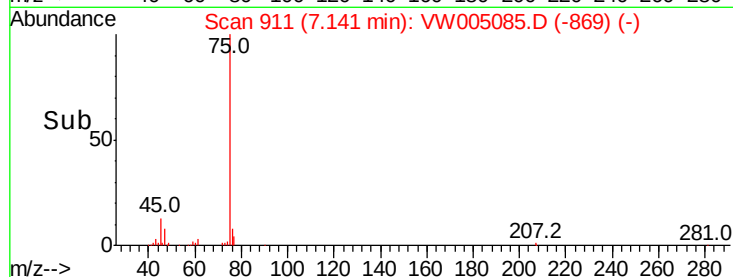
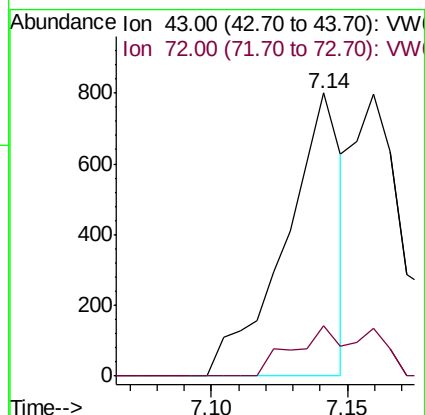
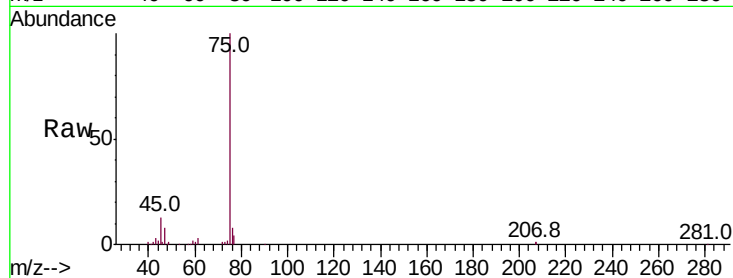
Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion: 43 Resp: 1147

Ion Ratio Lower Upper

43 100

72 17.9 23.1 34.7#



#26

2,2-Dichloropropane

Concen: 1.007 ug/l

RT: 7.15 min Scan# 912

Delta R.T. -0.03 min

Lab File: VW005085.D

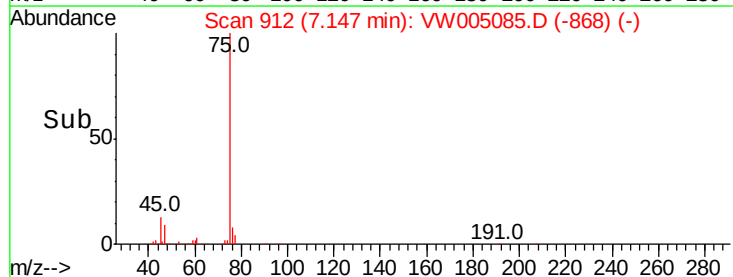
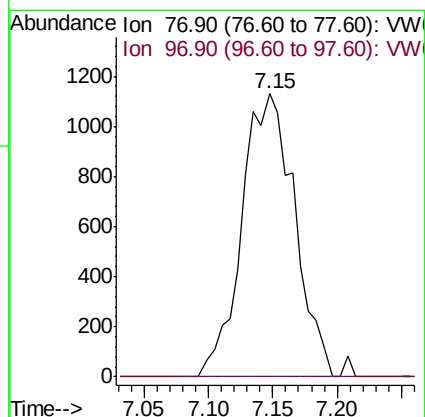
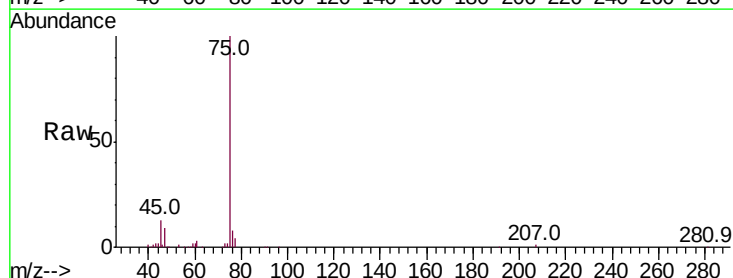
Acq: 04 Sep 2018 17:41

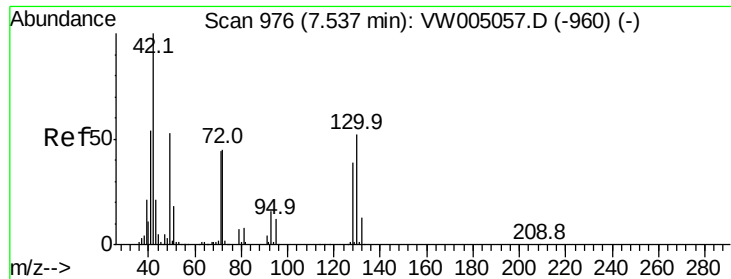
Tgt Ion: 77 Resp: 3202

Ion Ratio Lower Upper

77 100

97 0.0 12.2 36.6#

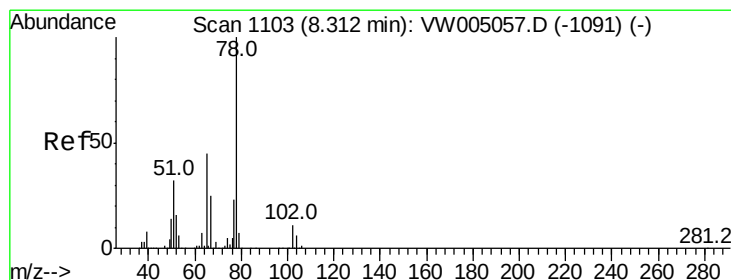
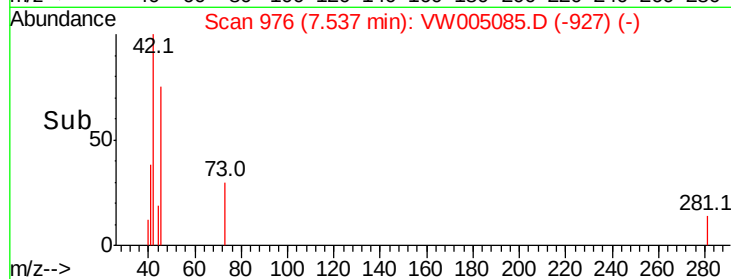
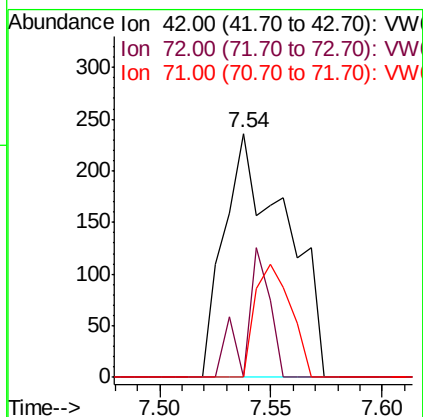
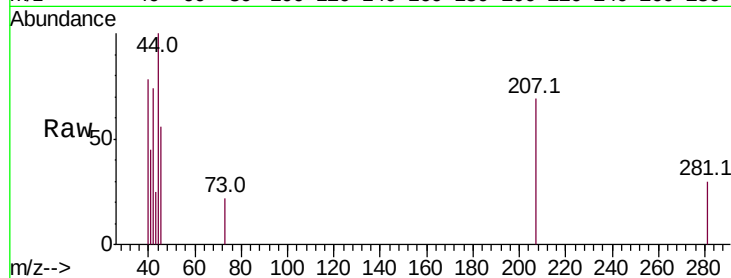




#29  
Tetrahydrofuran  
Concen: 1.327 ug/l  
RT: 7.54 min Scan# 976  
Delta R.T. 0.00 min  
Lab File: VW005085.D  
Acq: 04 Sep 2018 17:41

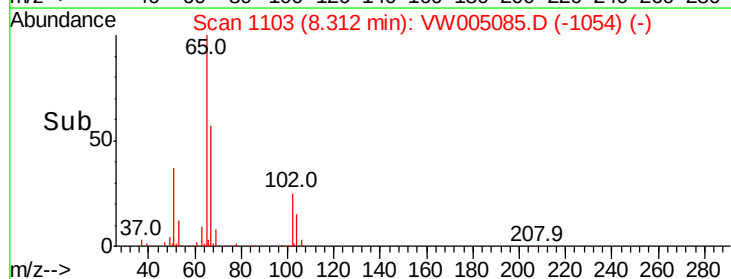
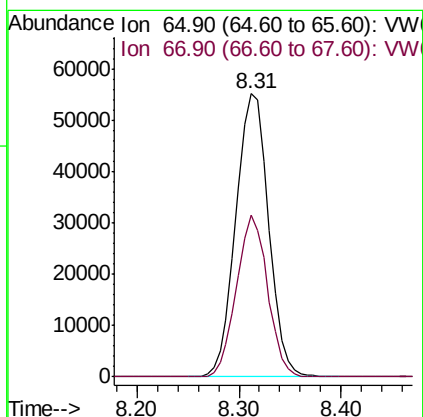
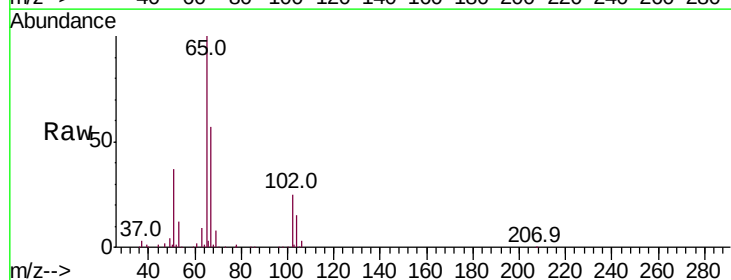
Instrument :  
MSVOA\_W  
ClientSampled :

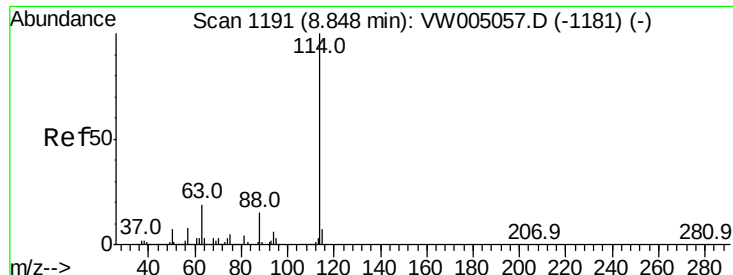
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 20.9  | 37.0  | 55.4# |
| 71      | 27.0  | 35.0  | 52.6# |



#33  
1,2-Dichloroethane-d4  
Concen: 63.829 ug/l  
RT: 8.31 min Scan# 1103  
Delta R.T. 0.00 min  
Lab File: VW005085.D  
Acq: 04 Sep 2018 17:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 65      | 100   |       |       |
| 67      | 54.3  | 0.0   | 109.4 |

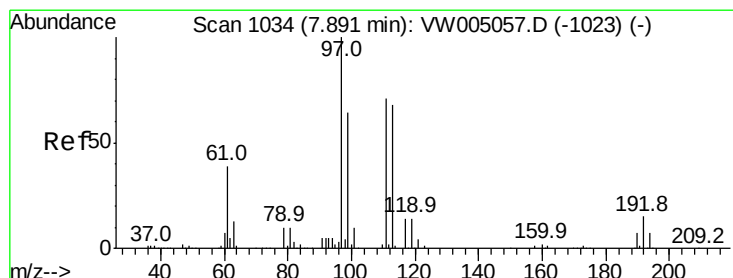
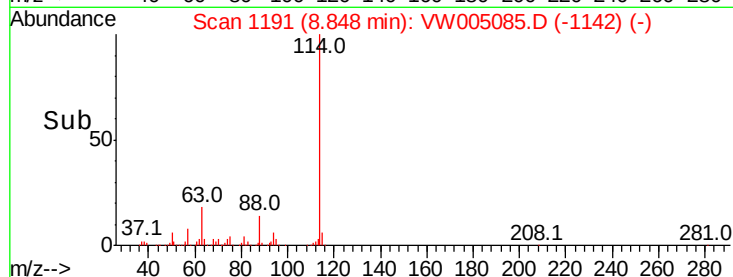
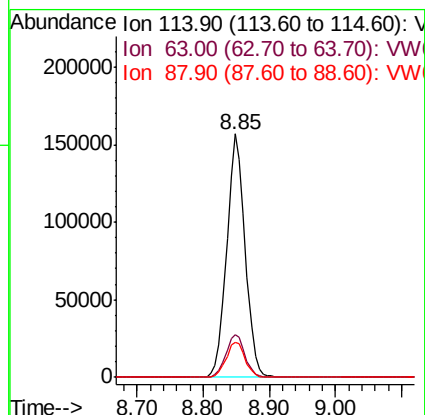
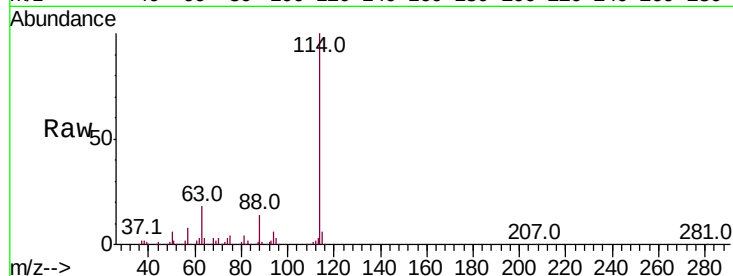




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.85 min Scan# 1191  
 Delta R.T. 0.00 min  
 Lab File: VW005085.D  
 Acq: 04 Sep 2018 17:41

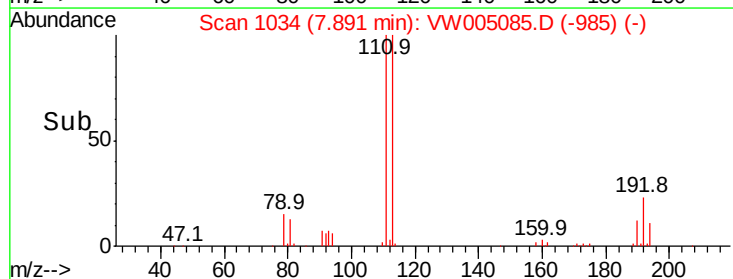
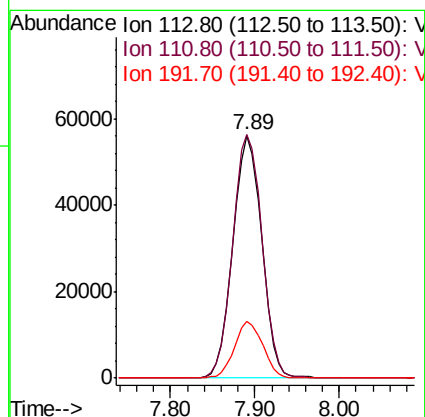
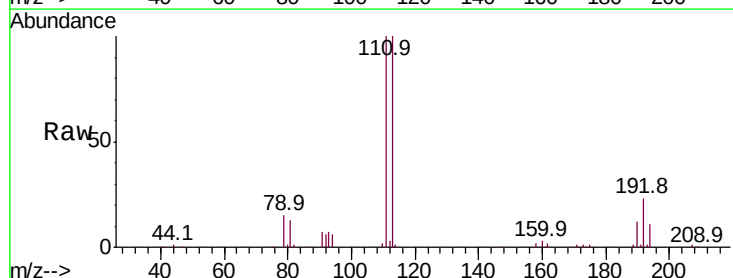
Instrument :  
 MSVOA\_W  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 17.6  | 0.0   | 38.0  |
| 88      | 14.5  | 0.0   | 30.2  |

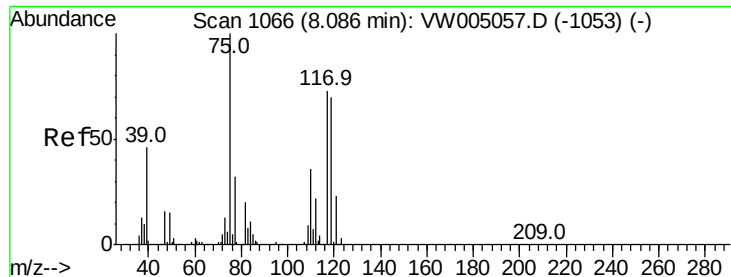


#35  
 Dibromofluoromethane  
 Concen: 74.630 ug/l  
 RT: 7.89 min Scan# 1034  
 Delta R.T. 0.00 min  
 Lab File: VW005085.D  
 Acq: 04 Sep 2018 17:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.8 | 82.2  | 123.2 |
| 192     | 22.9  | 18.1  | 27.1  |







#36

1,1-Dichloropropene

Concen: 5.478 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.13 min

Lab File: VW005085.D

Acq: 04 Sep 2018 17:41

Instrument :  
MSVOA\_W  
ClientSampleId :

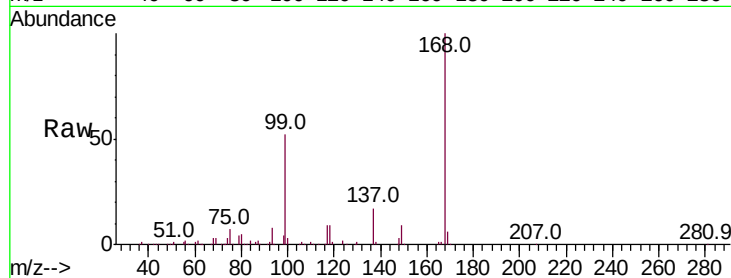
Tot Ion: 75 Resp: 15768

Ion Ratio Lower Upper

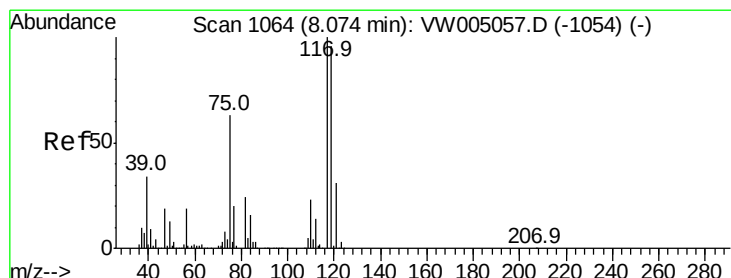
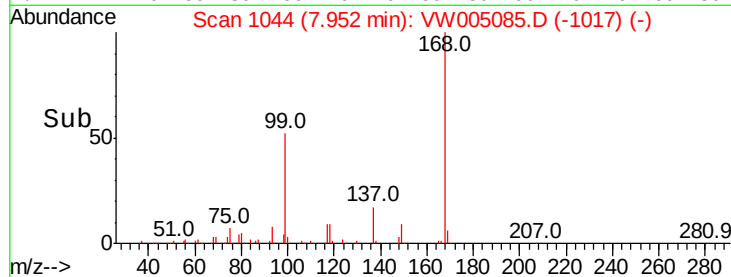
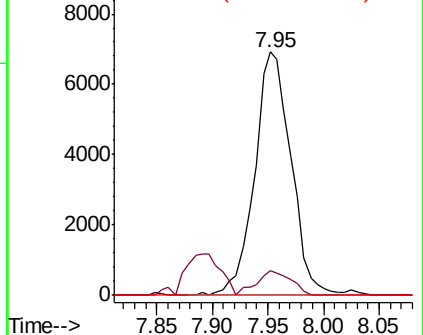
75 100

110 9.6 18.9 56.7#

77 0.0 25.5 38.3#



Abundance Ion 74.90 (74.60 to 75.60): VW  
Ion 109.90 (109.60 to 110.60): V  
Ion 76.90 (76.60 to 77.60): VW



#38

Carbon Tetrachloride

Concen: 7.776 ug/l

RT: 7.96 min Scan# 1045

Delta R.T. -0.12 min

Lab File: VW005085.D

Acq: 04 Sep 2018 17:41

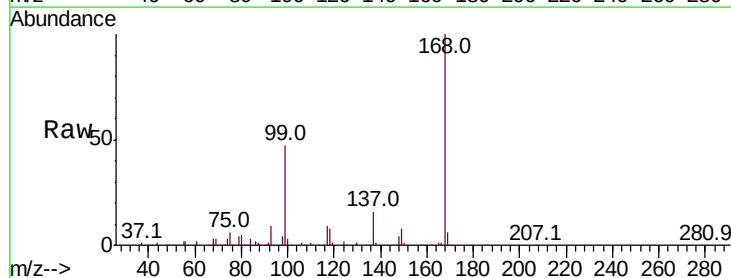
Tgt Ion: 117 Resp: 21282

Ion Ratio Lower Upper

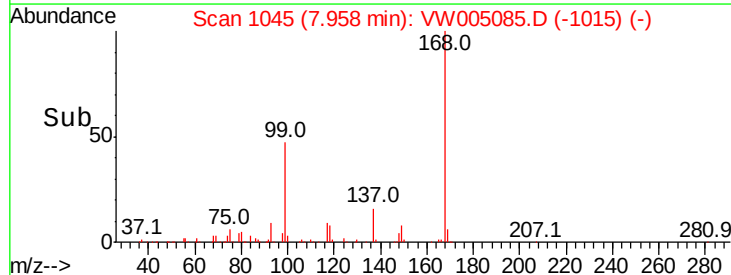
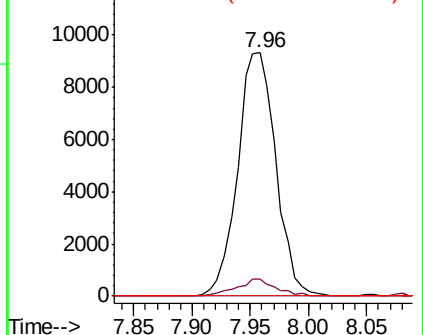
117 100

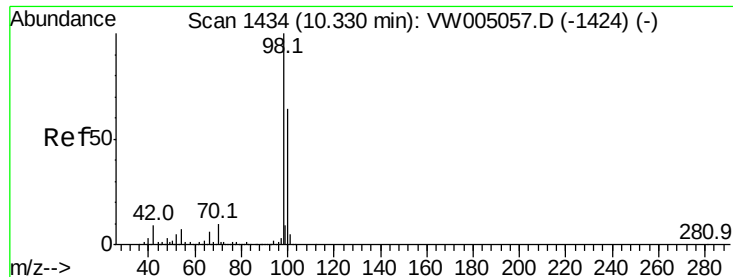
119 7.1 76.6 115.0#

121 0.0 24.8 37.2#



Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 32.481 ug/l

RT: 10.33 min Scan# 1434

Delta R.T. 0.00 min

Lab File: VW005085.D

Acq: 04 Sep 2018 17:41

Instrument :

MSVOA\_W

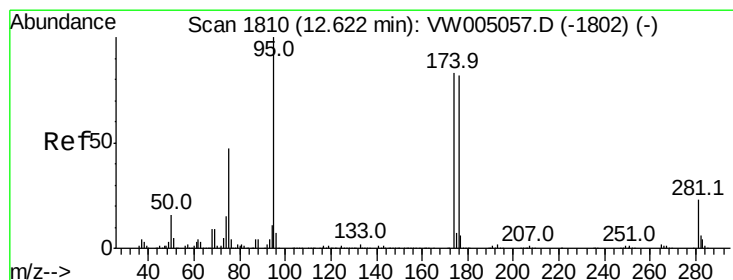
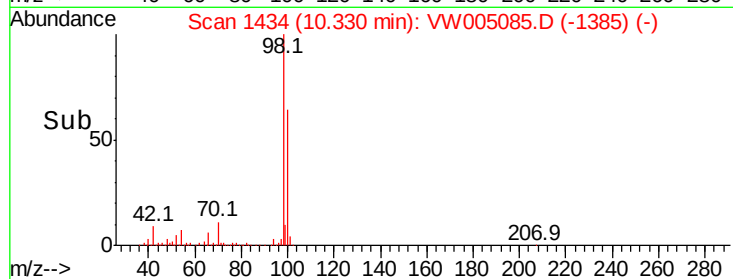
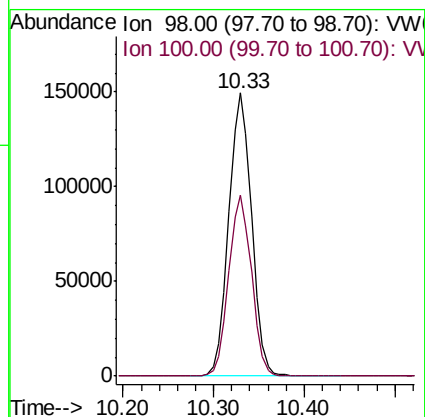
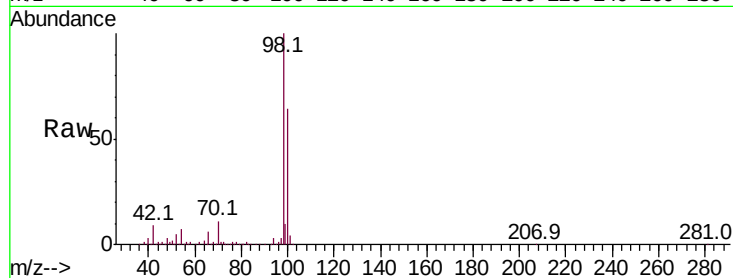
ClientSampleId :

Tot Ion: 98 Resp: 261412

Ion Ratio Lower Upper

98 100

100 63.9 51.7 77.5



#62

4-Bromofluorobenzene

Concen: 10.945 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VW005085.D

Acq: 04 Sep 2018 17:41

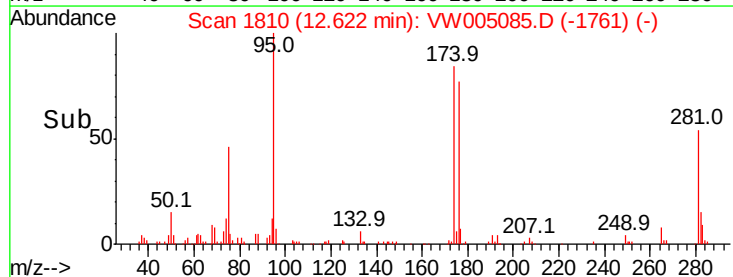
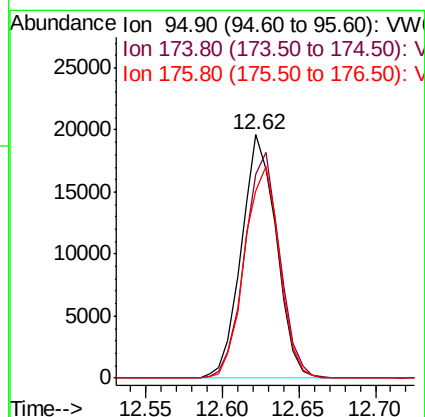
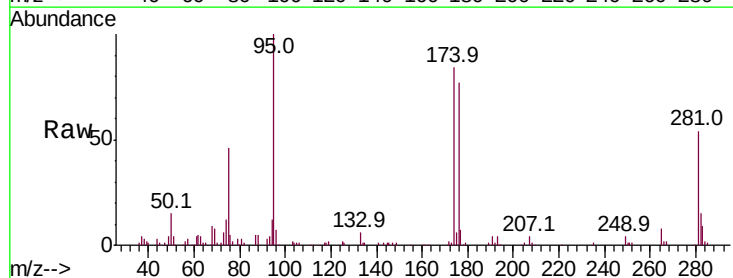
Tgt Ion: 95 Resp: 31059

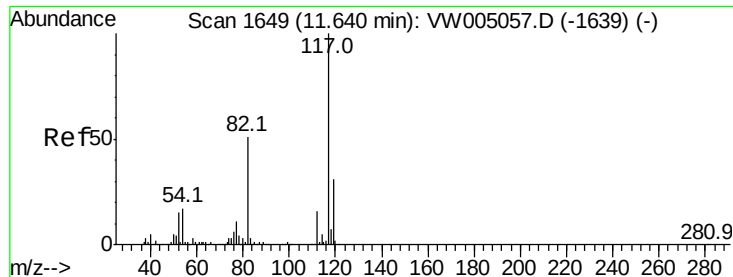
Ion Ratio Lower Upper

95 100

174 93.0 0.0 173.4

176 88.1 0.0 167.4

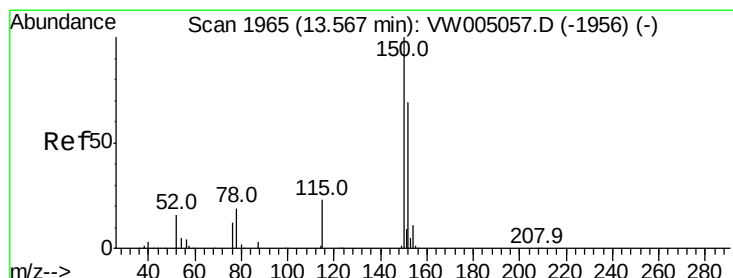
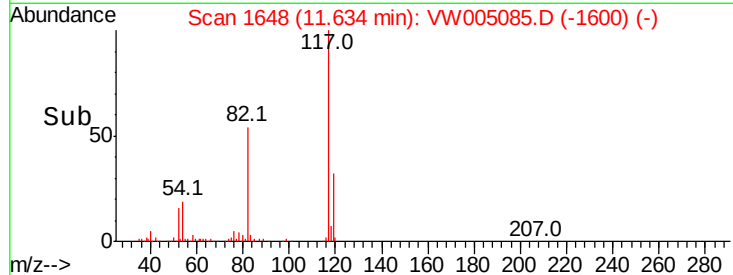
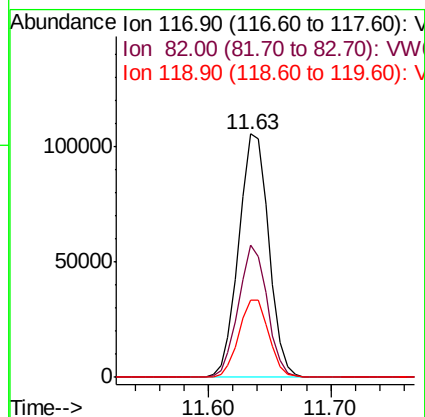
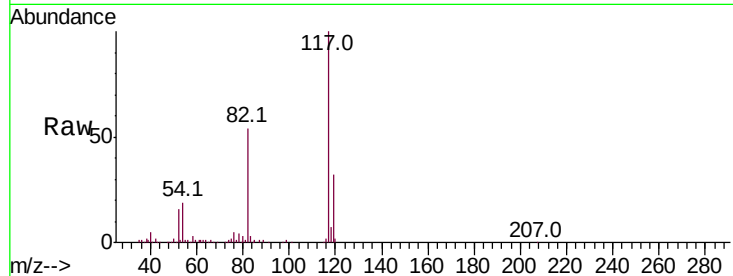




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1648  
Delta R.T. -0.01 min  
Lab File: VW005085.D  
Acq: 04 Sep 2018 17:41

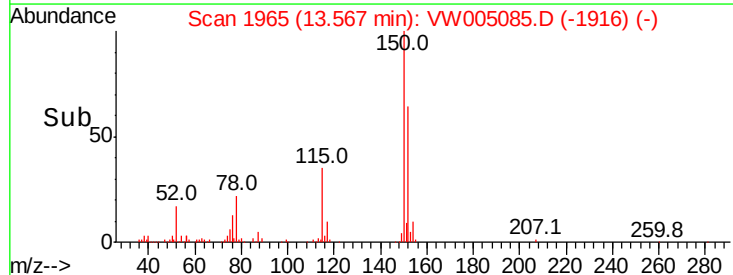
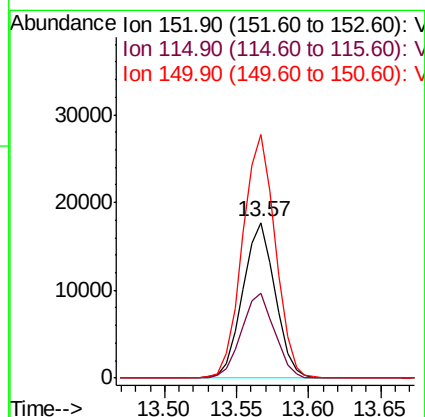
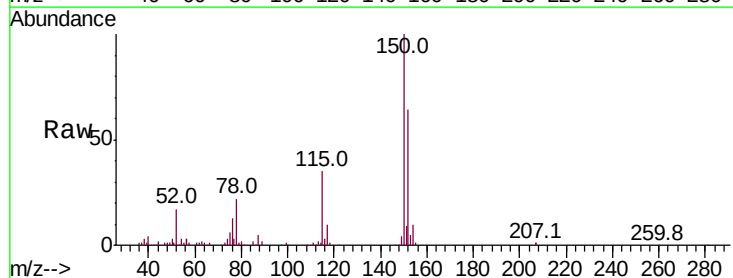
Instrument :  
MSVOA\_W  
ClientSampled :

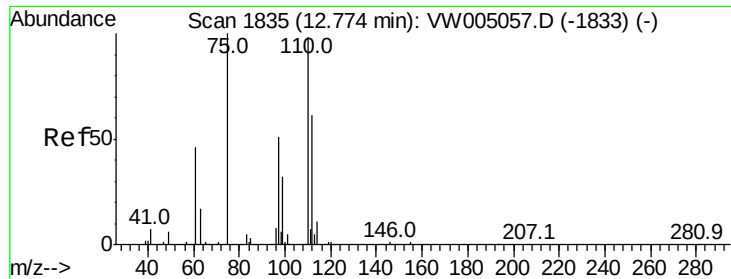
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 54.1  | 40.9  | 61.3  |
| 119     | 31.8  | 24.9  | 37.3  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.57 min Scan# 1965  
Delta R.T. 0.00 min  
Lab File: VW005085.D  
Acq: 04 Sep 2018 17:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 56.0  | 27.8  | 83.4  |
| 150     | 158.6 | 0.0   | 351.4 |





#76

1,2,3-Trichloropropane

Concen: 72.871 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. -0.15 min

Lab File: VW005085.D

Acq: 04 Sep 2018 17:41

Instrument :

MSVOA\_W

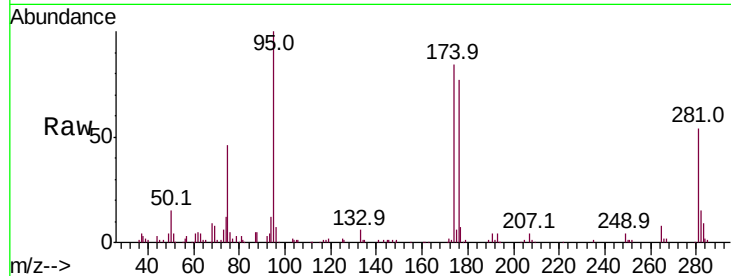
ClientSampled :

Tot Ion: 75 Resp: 15064

Ion Ratio Lower Upper

75 100

77 2.6 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

12.62

10000

8000

6000

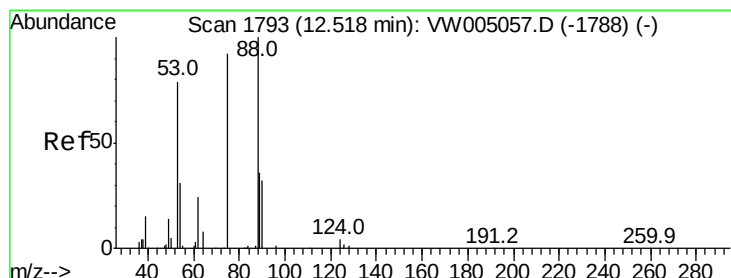
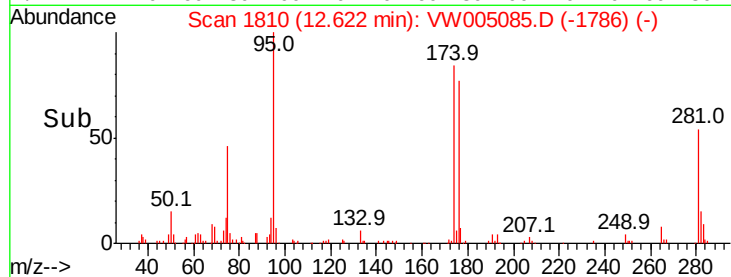
4000

2000

0

Time-->

12.55 12.60 12.65 12.70



#81

trans-1,4-Dichloro-2-butene

Concen: 175.392 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. 0.10 min

Lab File: VW005085.D

Acq: 04 Sep 2018 17:41

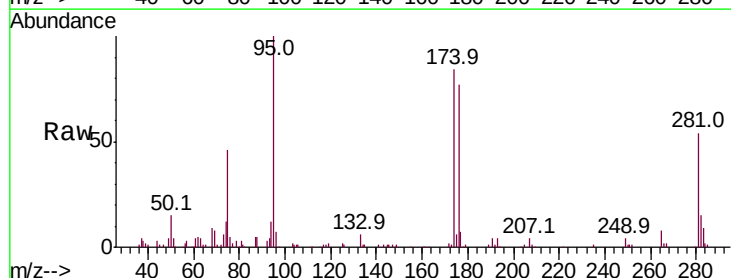
Tgt Ion: 75 Resp: 15064

Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.8#

89 0.0 36.0 54.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW

12000

10000

8000

6000

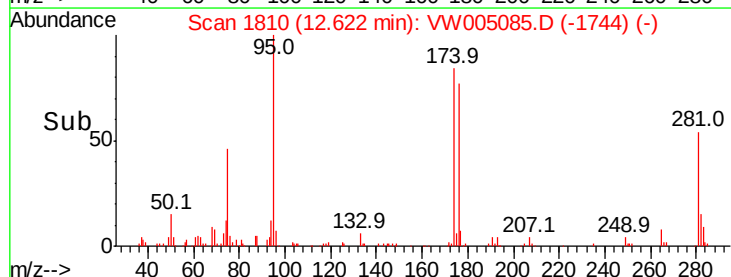
4000

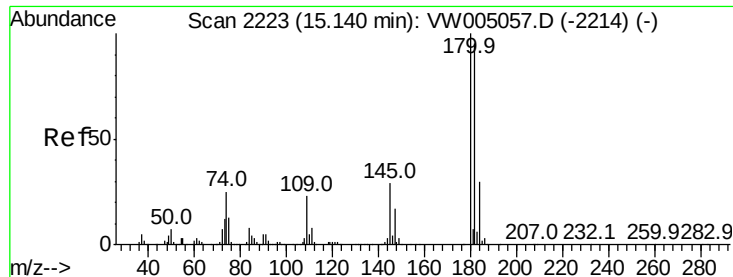
2000

0

Time-->

12.55 12.60 12.65 12.70

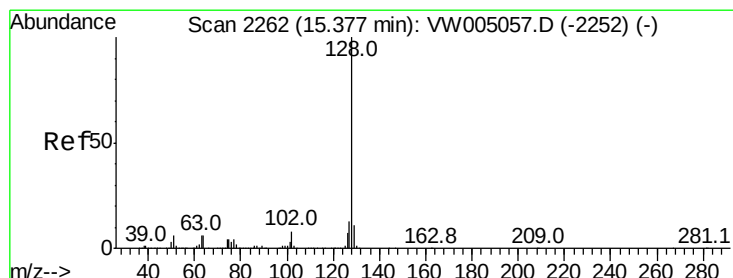
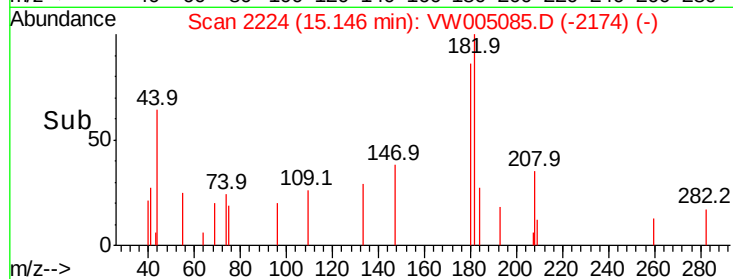
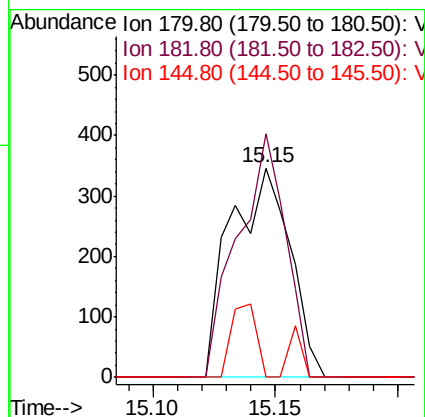
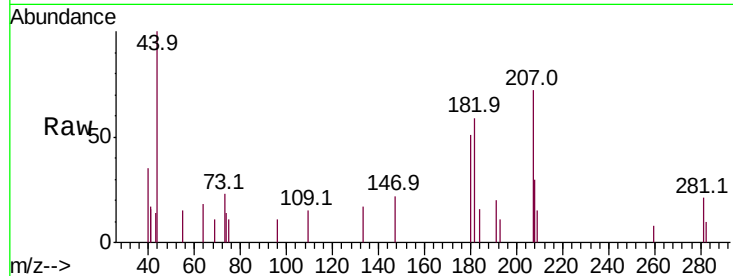




#93  
 1,2,4-Trichlorobenzene  
 Concen: 1.029 ug/l  
 RT: 15.15 min Scan# 2224  
 Delta R.T. 0.01 min  
 Lab File: VW005085.D  
 Acq: 04 Sep 2018 17:41

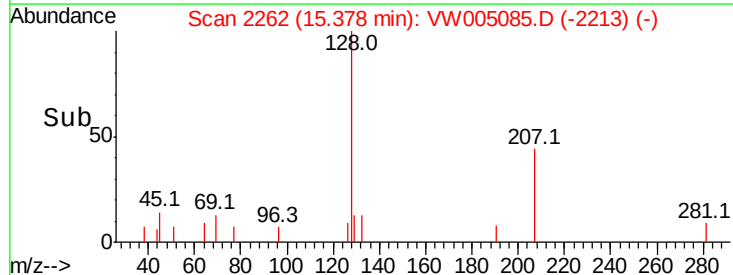
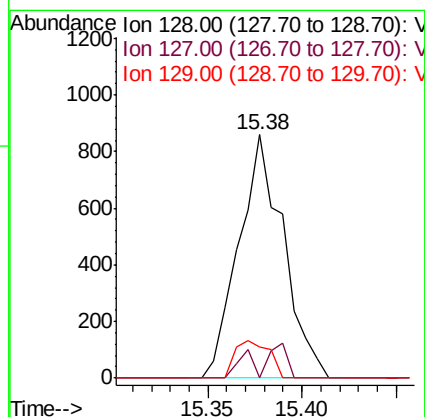
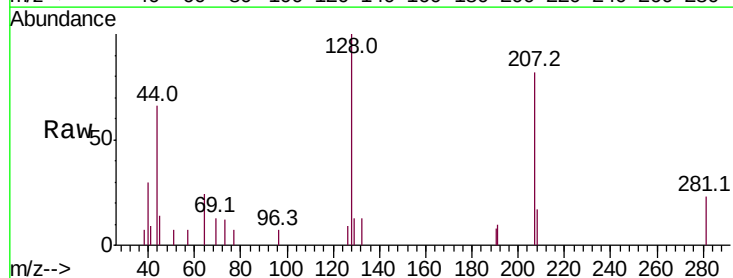
Instrument :  
 MSVOA\_W  
 ClientSampled :

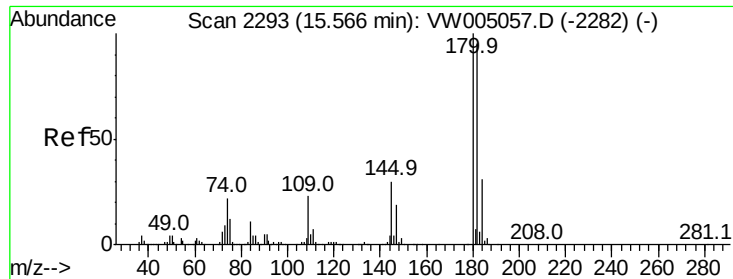
Tot Ion:180 Resp: 591  
 Ion Ratio Lower Upper  
 180 100  
 182 92.7 47.5 142.6  
 145 14.4 14.4 43.2#



#95  
 Naphthalene  
 Concen: 5.285 ug/l  
 RT: 15.38 min Scan# 2262  
 Delta R.T. 0.00 min  
 Lab File: VW005085.D  
 Acq: 04 Sep 2018 17:41

Tgt Ion:128 Resp: 1408  
 Ion Ratio Lower Upper  
 128 100  
 127 4.0 10.4 15.6#  
 129 11.9 8.7 13.1





#96

1,2,3-Trichlorobenzene

Concen: 1.212 ug/l

RT: 15.57 min Scan# 2293

Delta R.T. 0.00 min

Lab File: VW005085.D

Acq: 04 Sep 2018 17:41

Instrument :

MSVOA\_W

ClientSampleId :

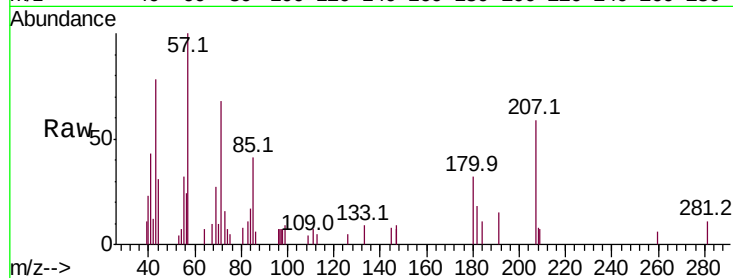
Tot Ion:180 Resp: 596

Ion Ratio Lower Upper

180 100

182 99.0 47.4 142.3

145 24.2 15.4 46.1



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

