

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW020719\  
 Data File : VW008564.D  
 Acq On : 07 Feb 2019 20:23  
 Operator : SY/VA  
 Sample : K1409-01  
 Misc : 5.68G/5ML/MSVOA W/SOIL  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SB-08(0-2)

Quant Time: Feb 08 22:44:07 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W012419S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jan 25 11:07:41 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 518491   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 831881   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 743171   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 331700   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.30  | 65   | 285287   | 56.01 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 112.02% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 258668   | 53.18 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 106.36% |          |
| 50) Toluene-d8              | 10.32 | 98   | 990771   | 50.79 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.58% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 349706   | 46.64 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.28%  |          |

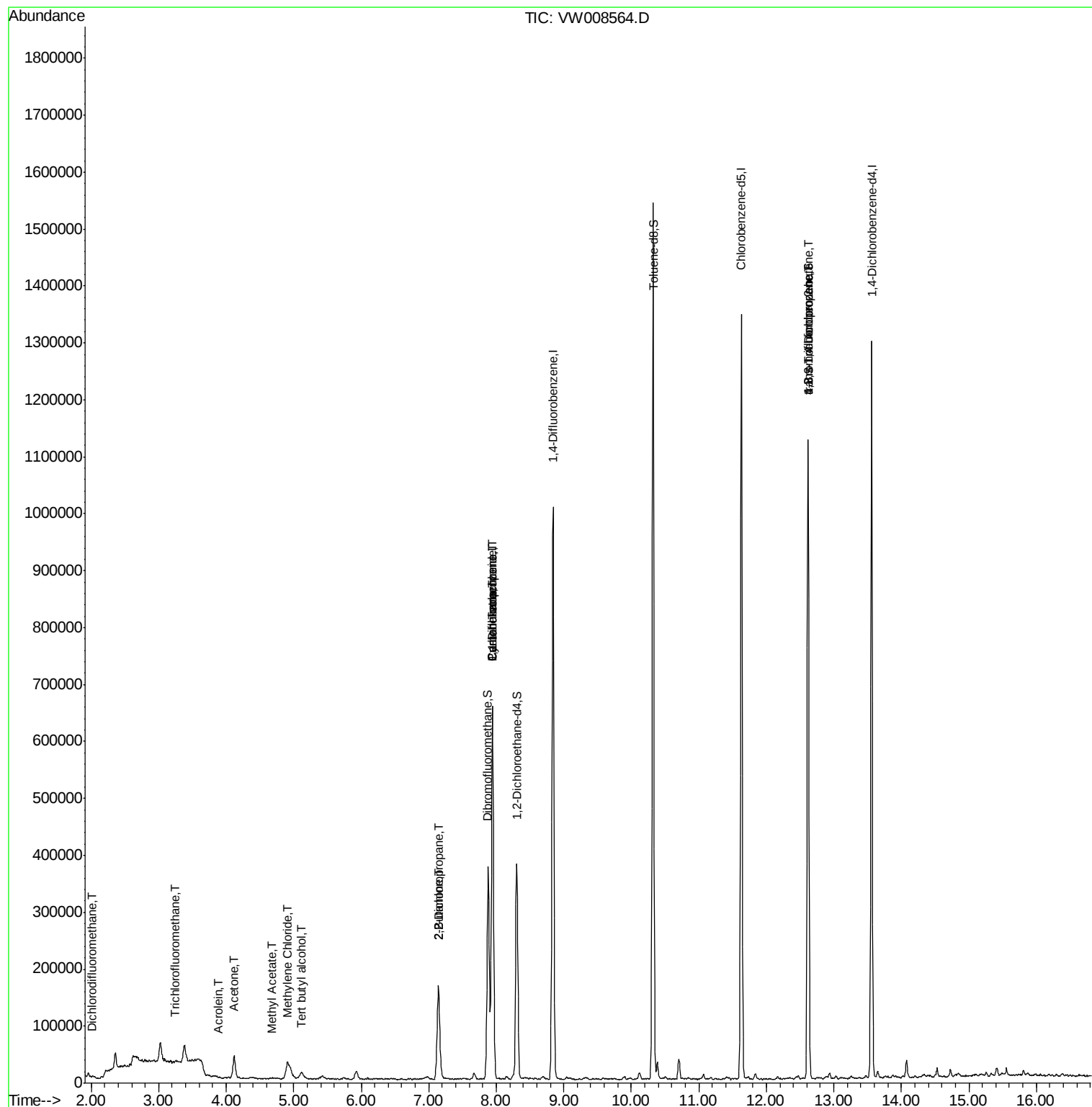
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane     | 2.01  | 85   | 84       | 3.279   | ug/l # | 41     |
| 7) Trichlorofluoromethane      | 3.24  | 101  | 418      | 4.806   | ug/l # | 38     |
| 11) Tert butyl alcohol         | 5.12  | 59   | 10743    | 26.196  | ug/l # | 70     |
| 13) Acrolein                   | 3.89  | 56   | 50       | 4.321   | ug/l # | 14     |
| 16) Acetone                    | 4.12  | 43   | 63305    | 55.343  | ug/l   | 89     |
| 18) Methyl Acetate             | 4.68  | 43   | 3402     | 1.115   | ug/l # | 79     |
| 20) Methylene Chloride         | 4.91  | 84   | 22791    | 4.323   | ug/l   | 94     |
| 25) 2-Butanone                 | 7.15  | 43   | 11201    | 7.050   | ug/l # | 79     |
| 26) 2,2-Dichloropropane        | 7.15  | 77   | 12393    | 1.896   | ug/l # | 55     |
| 31) Cyclohexane                | 7.94  | 56   | 13108    | 1.311   | ug/l # | 42     |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 38184    | 4.859   | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.94  | 117  | 49371    | 6.244   | ug/l # | 16     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 182632   | 63.328  | ug/l # | 1      |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 182632   | 125.078 | ug/l # | 12     |

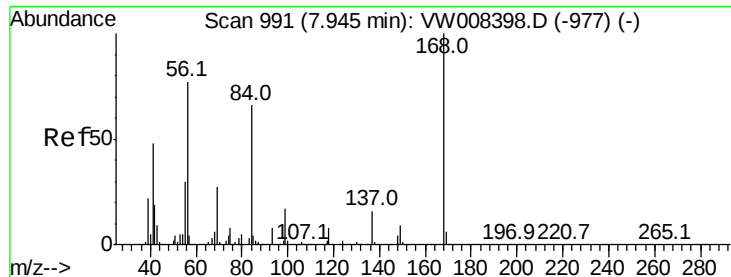
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW020719\  
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SB-08(0-2)

Quant Time: Feb 08 22:44:07 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W012419S.M  
Quant Title : SW846 8260  
QLast Update : Fri Jan 25 11:07:41 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW008564.D

Acq: 07 Feb 2019 20:23

Instrument :

MSVOA\_W

ClientSampleId :

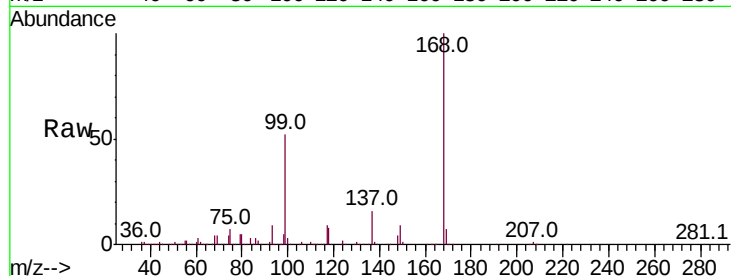
SB-08(0-2)

Tot Ion:168 Resp: 518491

Ion Ratio Lower Upper

168 100

99 52.1 45.5 68.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

250000

200000

150000

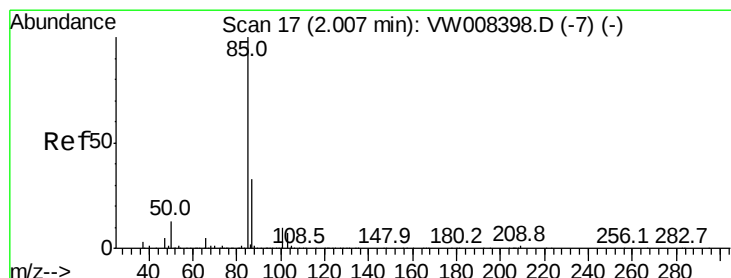
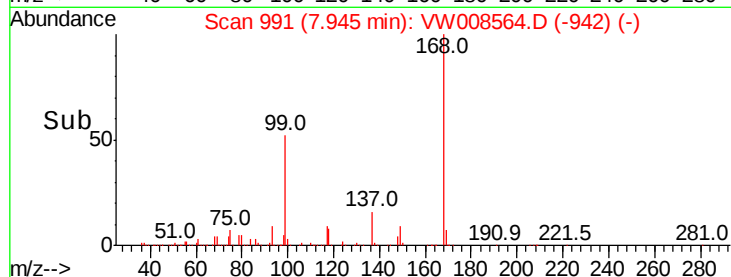
100000

50000

0

Time-->

7.80 7.90 8.00



#2

Dichlorodifluoromethane

Concen: 3.279 ug/l

RT: 2.01 min Scan# 17

Delta R.T. 0.00 min

Lab File: VW008564.D

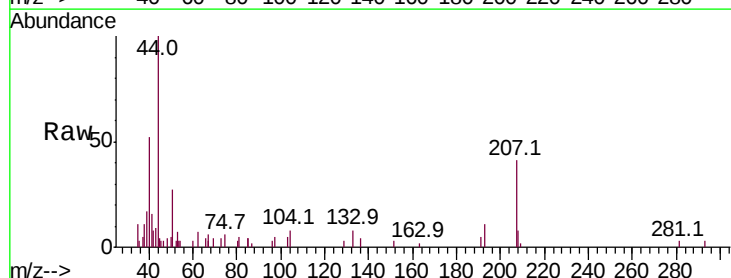
Acq: 07 Feb 2019 20:23

Tgt Ion: 85 Resp: 84

Ion Ratio Lower Upper

85 100

87 0.0 16.7 50.1#



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

250

200

150

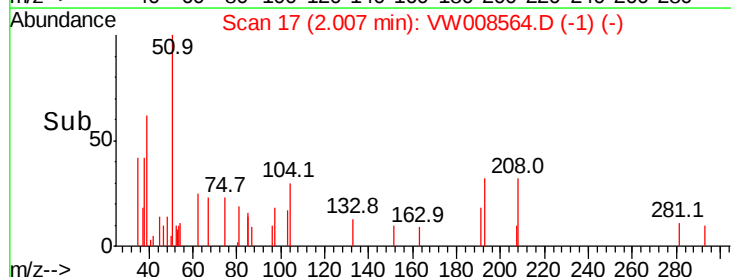
100

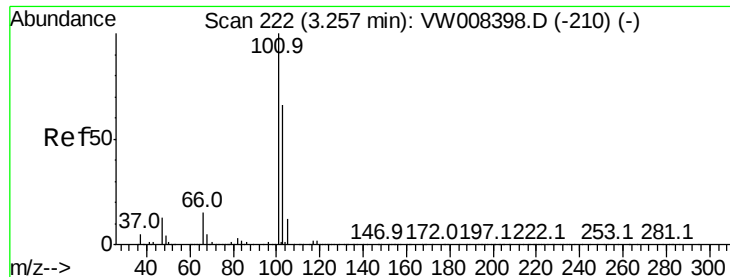
50

0

Time-->

2.00 2.01 2.02



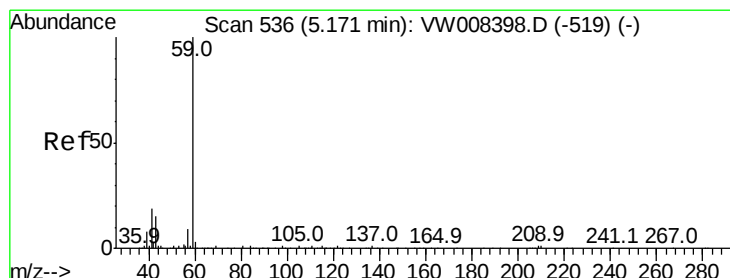
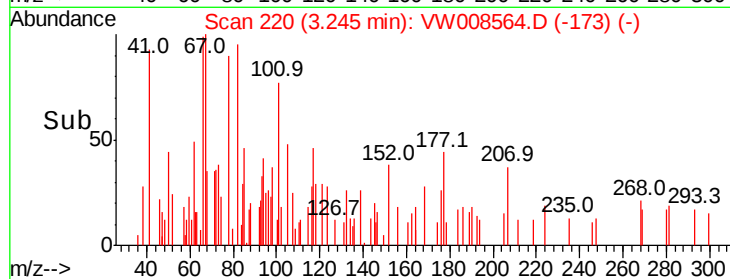
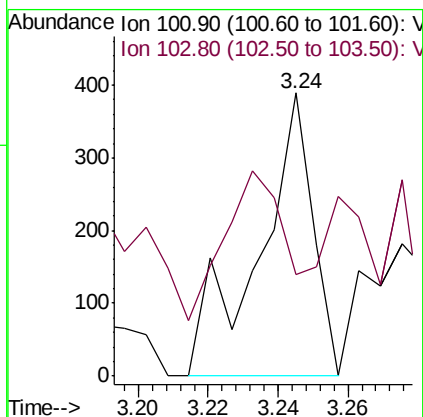
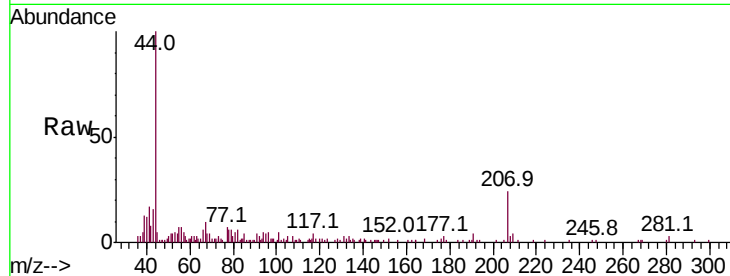


#7

Trichlorofluoromethane  
 Concen: 4.806 ug/l  
 RT: 3.24 min Scan# 220  
 Delta R.T. -0.01 min  
 Lab File: VW008564.D  
 Acq: 07 Feb 2019 20:23

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SB-08(0-2)

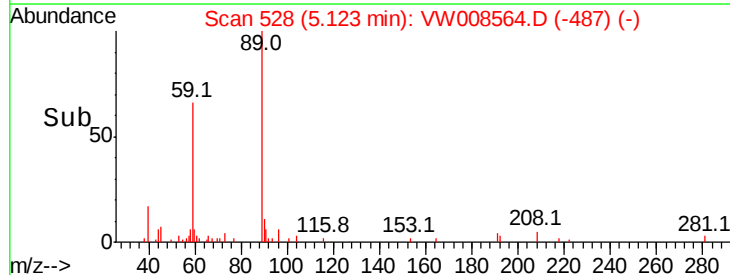
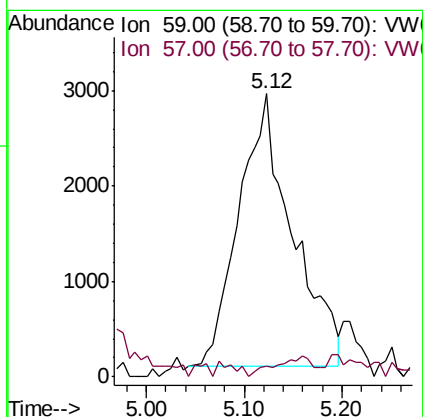
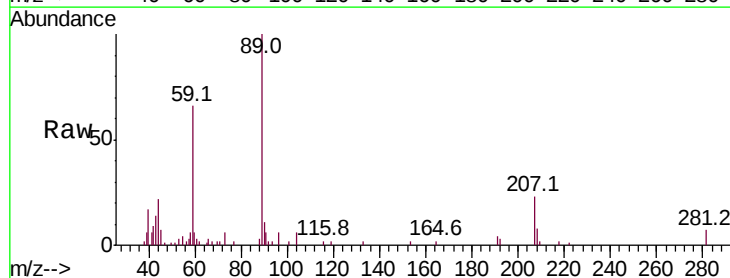
Tot Ion:101 Resp: 418  
 Ion Ratio Lower Upper  
 101 100  
 103 16.2 52.5 78.7#

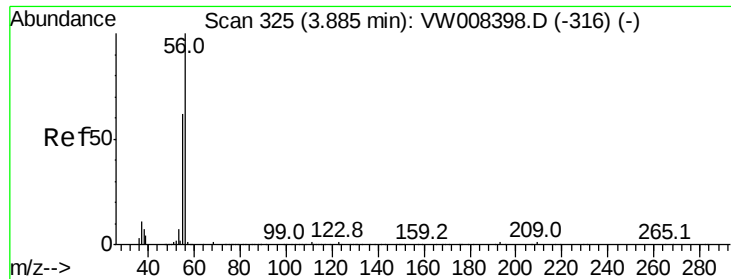


#11

Tert butyl alcohol  
 Concen: 26.196 ug/l  
 RT: 5.12 min Scan# 528  
 Delta R.T. -0.05 min  
 Lab File: VW008564.D  
 Acq: 07 Feb 2019 20:23

Tgt Ion: 59 Resp: 10743  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 9.3 13.9#

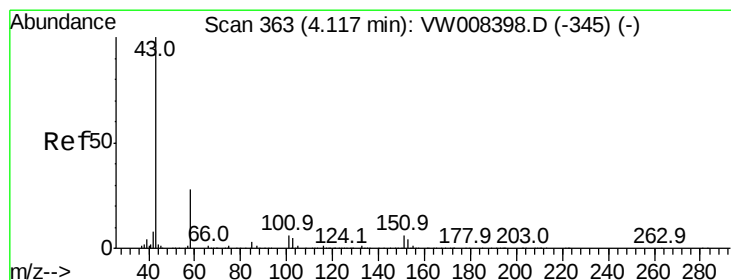
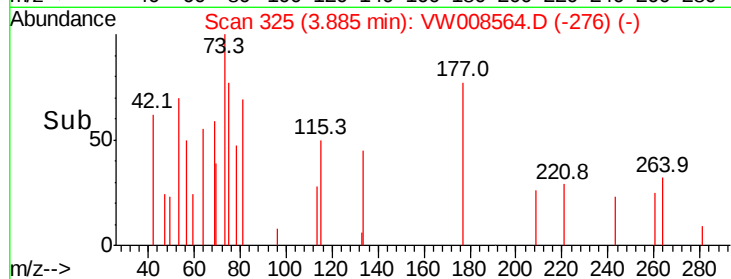
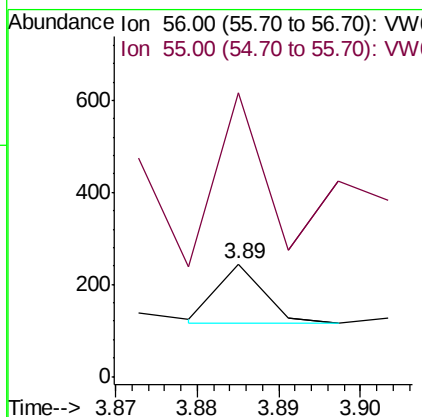
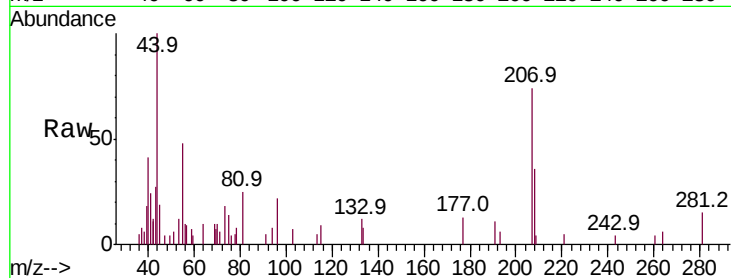




#13  
Acrolein  
Concen: 4.321 ug/l  
RT: 3.89 min Scan# 325  
Delta R.T. 0.00 min  
Lab File: VW008564.D  
Acq: 07 Feb 2019 20:23

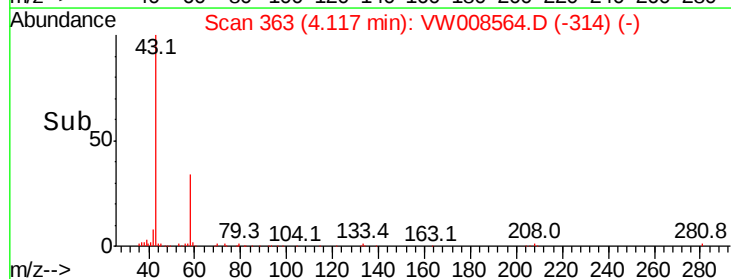
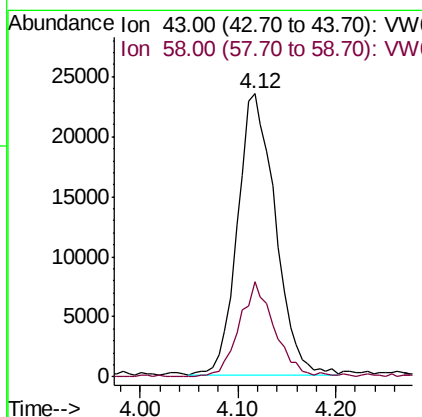
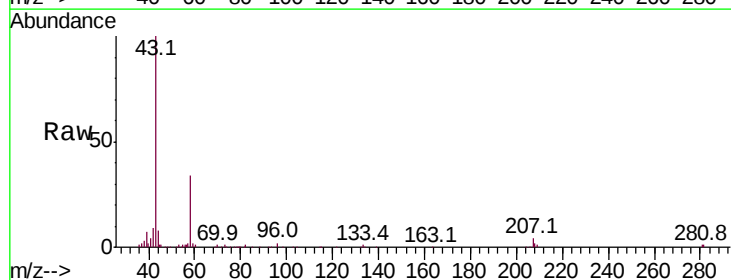
Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-08(0-2)

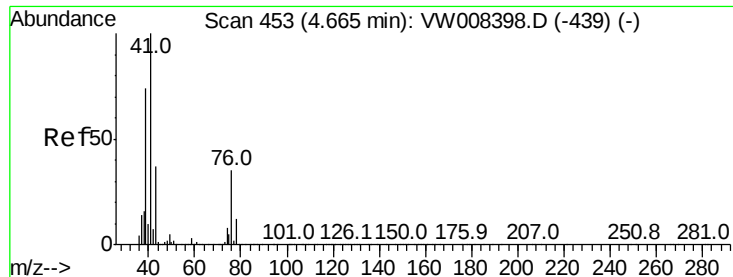
Tot Ion: 56 Resp: 50  
Ion Ratio Lower Upper  
56 100  
55 0.0 56.7 85.1#



#16  
Acetone  
Concen: 55.343 ug/l  
RT: 4.12 min Scan# 363  
Delta R.T. 0.00 min  
Lab File: VW008564.D  
Acq: 07 Feb 2019 20:23

Tgt Ion: 43 Resp: 63305  
Ion Ratio Lower Upper  
43 100  
58 34.0 22.6 34.0





#18

Methyl Acetate

Concen: 1.115 ug/l

RT: 4.68 min Scan# 455

Delta R.T. 0.01 min

Lab File: VW008564.D

Acq: 07 Feb 2019 20:23

Instrument :

MSVOA\_W

ClientSampled :

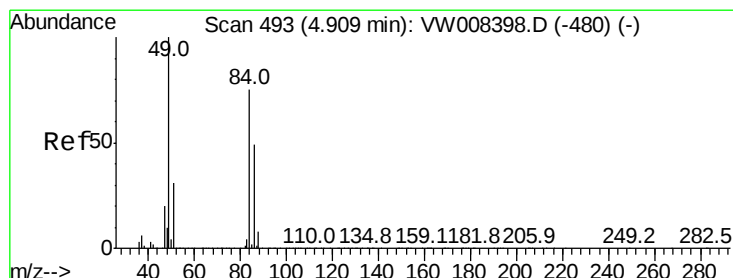
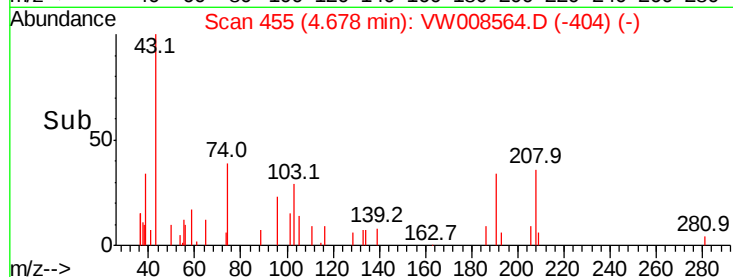
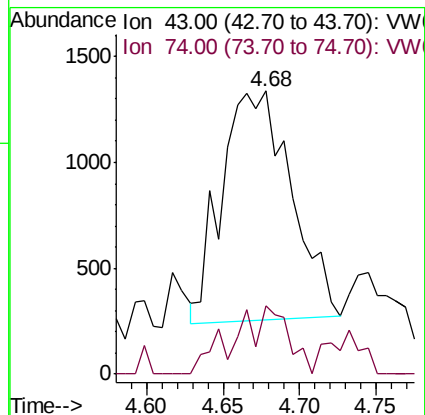
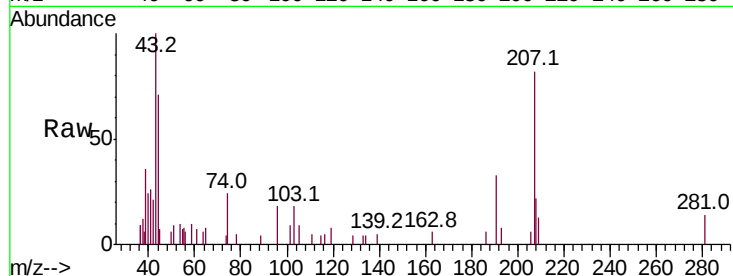
SB-08(0-2)

Tot Ion: 43 Resp: 3402

Ion Ratio Lower Upper

43 100

74 11.7 17.5 26.3#



#20

Methylene Chloride

Concen: 4.323 ug/l

RT: 4.91 min Scan# 493

Delta R.T. 0.00 min

Lab File: VW008564.D

Acq: 07 Feb 2019 20:23

Tgt Ion: 84 Resp: 22791

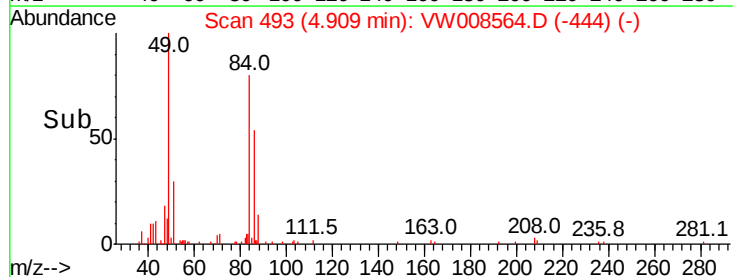
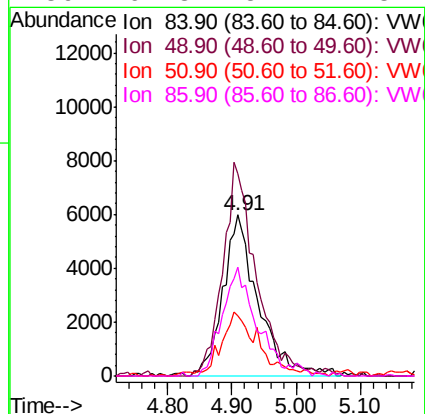
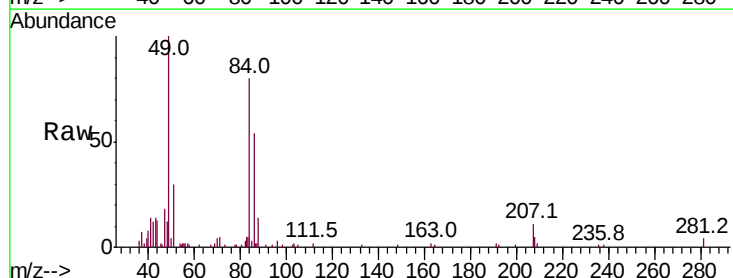
Ion Ratio Lower Upper

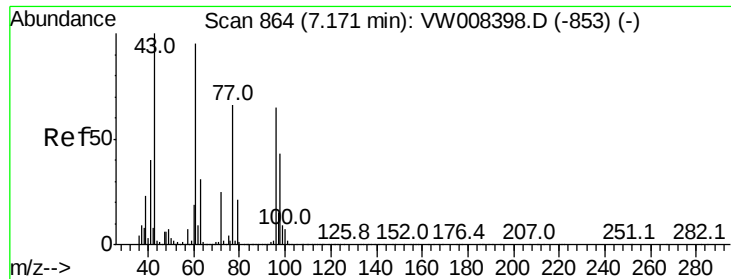
84 100

49 125.3 106.8 160.2

51 34.9 32.9 49.3

86 67.3 52.2 78.2





#25

2-Butanone

Concen: 7.050 ug/l

RT: 7.15 min Scan# 860

Delta R.T. -0.02 min

Lab File: VW008564.D

Acq: 07 Feb 2019 20:23

Instrument :

MSVOA\_W

ClientSampleId :

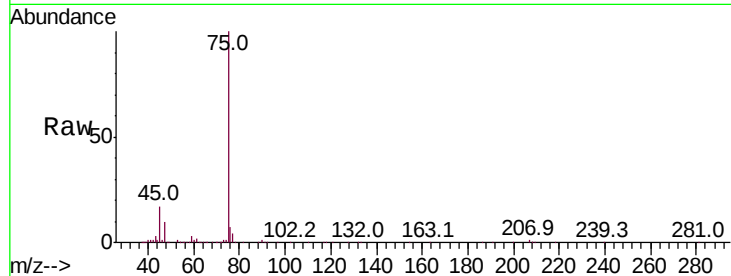
SB-08(0-2)

Tot Ion: 43 Resp: 11201

Ion Ratio Lower Upper

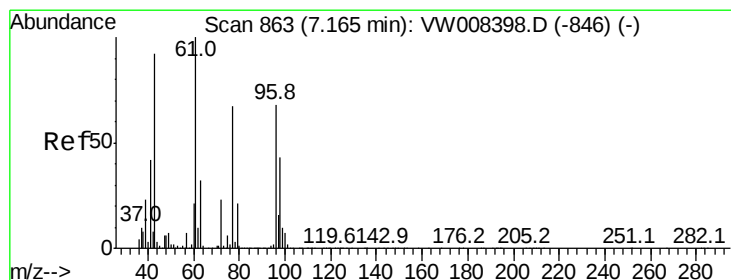
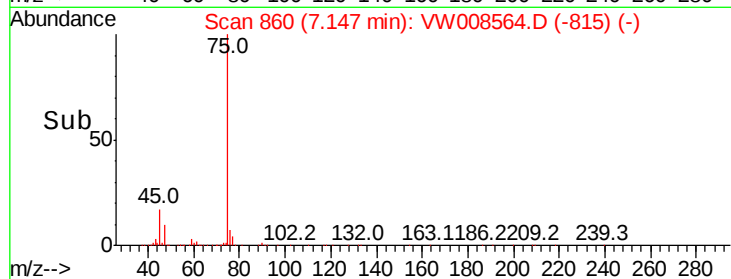
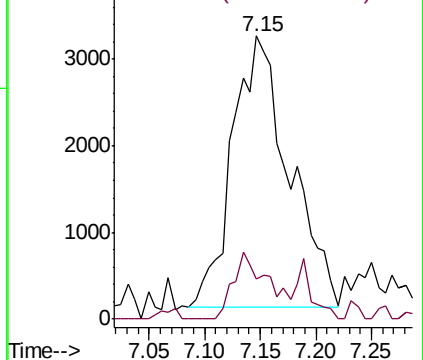
43 100

72 14.6 20.1 30.1#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



#26

2,2-Dichloropropane

Concen: 1.896 ug/l

RT: 7.15 min Scan# 860

Delta R.T. -0.02 min

Lab File: VW008564.D

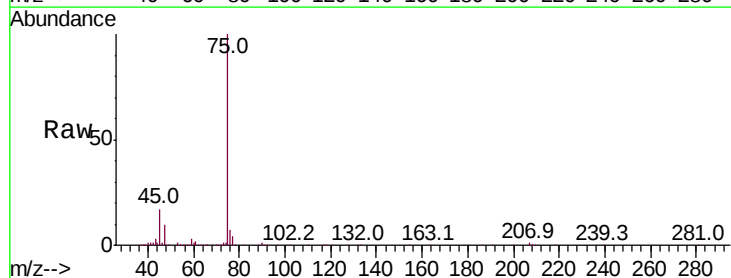
Acq: 07 Feb 2019 20:23

Tgt Ion: 77 Resp: 12393

Ion Ratio Lower Upper

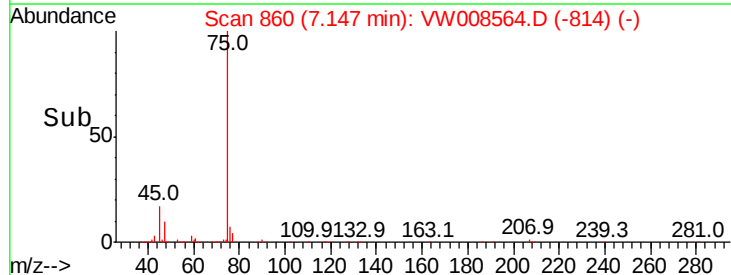
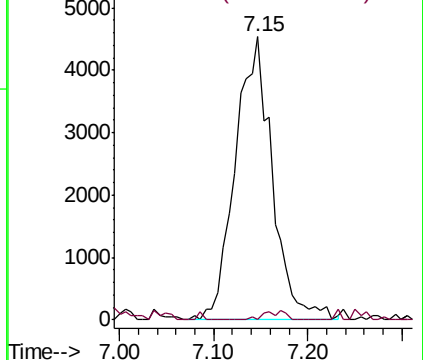
77 100

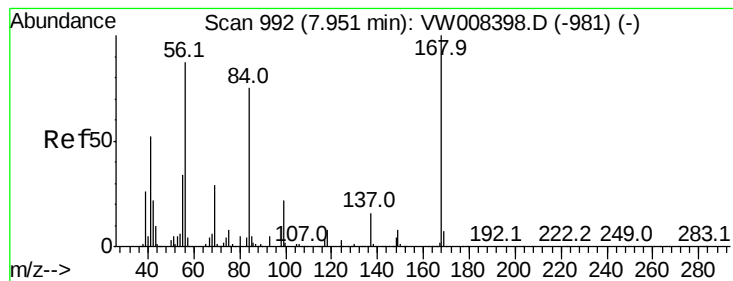
97 1.1 11.5 34.5#



Abundance Ion 76.90 (76.60 to 77.60): VW

Ion 96.90 (96.60 to 97.60): VW





#31

Cyclohexane

Concen: 1.311 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.01 min

Lab File: VW008564.D

Acq: 07 Feb 2019 20:23

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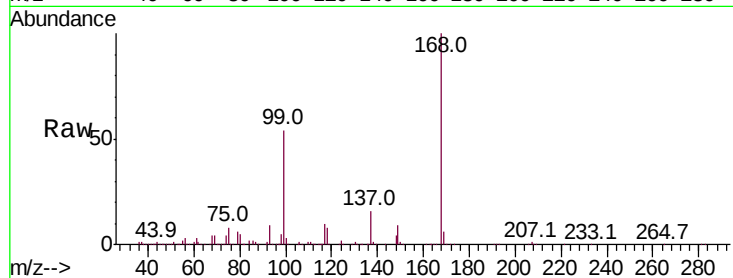
Tot Ion: 56 Resp: 13108

Ion Ratio Lower Upper

56 100

69 130.1 26.4 39.6#

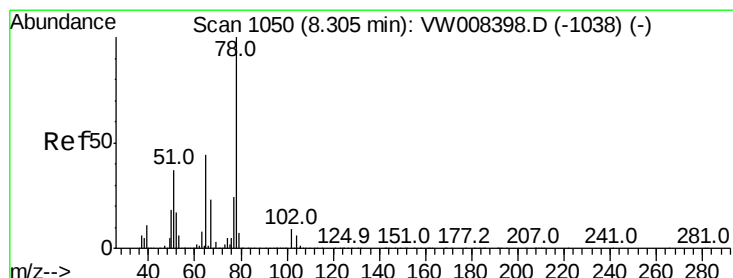
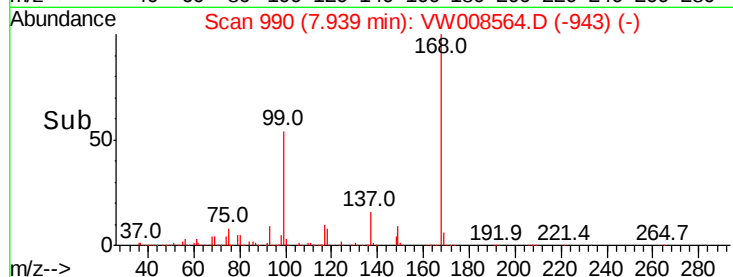
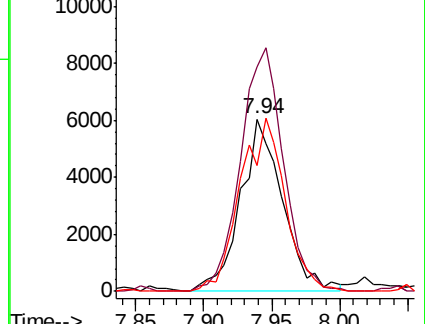
84 73.3 69.1 103.7



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: 56.008 ug/l

RT: 8.30 min Scan# 1049

Delta R.T. -0.01 min

Lab File: VW008564.D

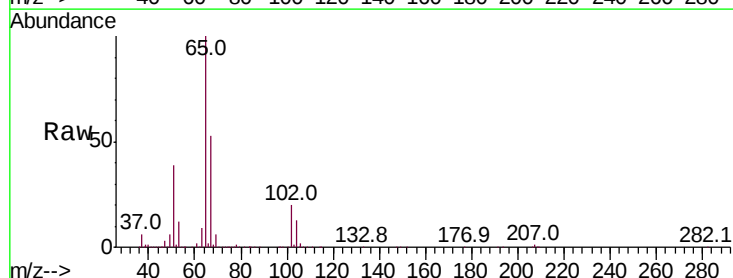
Acq: 07 Feb 2019 20:23

Tgt Ion: 65 Resp: 285287

Ion Ratio Lower Upper

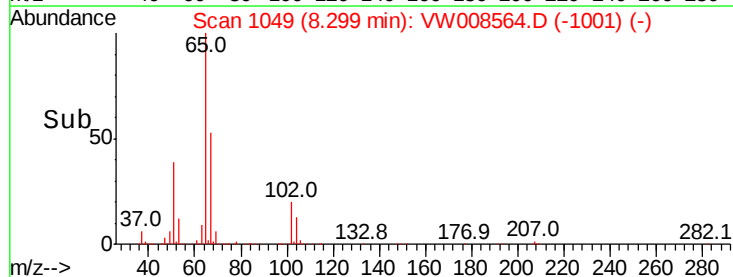
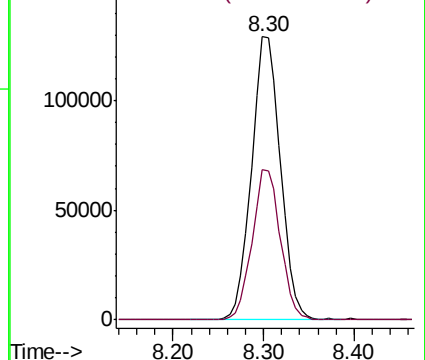
65 100

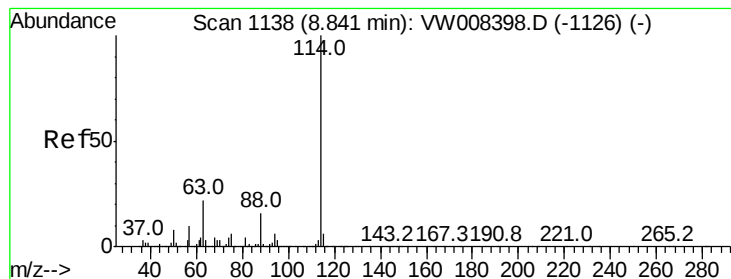
67 51.9 0.0 104.0



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: 8.84 min Scan# 1138

Delta R.T. 0.00 min

Lab File: VW008564.D

Acq: 07 Feb 2019 20:23

Instrument :

MSVOA\_W

ClientSampled :

SB-08(0-2)

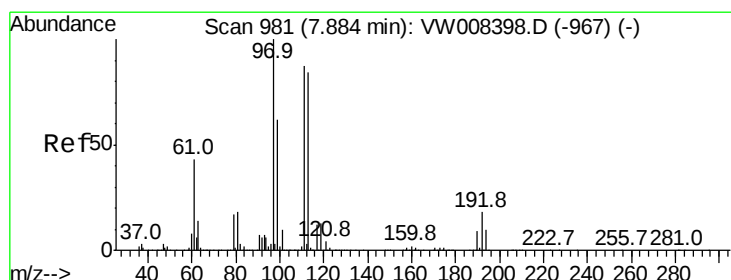
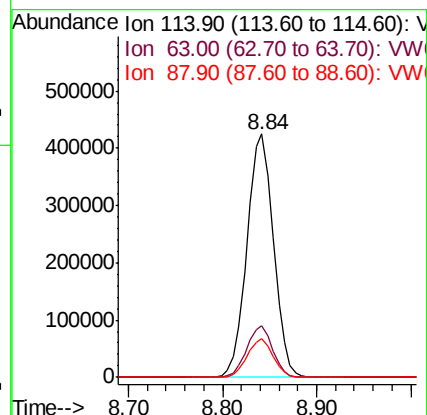
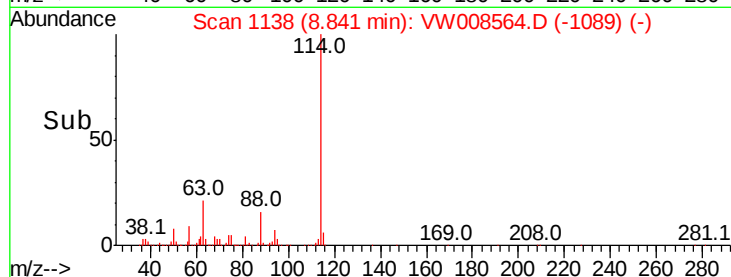
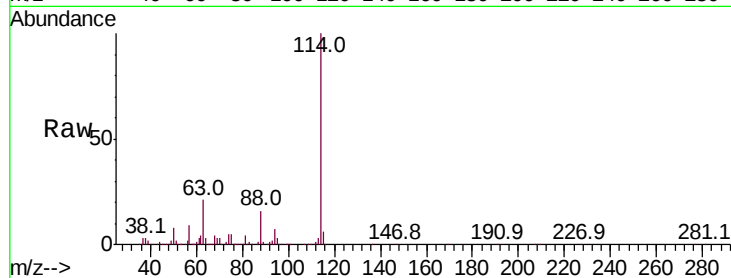
Tot Ion:114 Resp: 831881

Ion Ratio Lower Upper

114 100

63 21.3 0.0 43.6

88 16.0 0.0 31.8



#35

Dibromofluoromethane

Concen: 53.177 ug/l

RT: 7.88 min Scan# 980

Delta R.T. -0.01 min

Lab File: VW008564.D

Acq: 07 Feb 2019 20:23

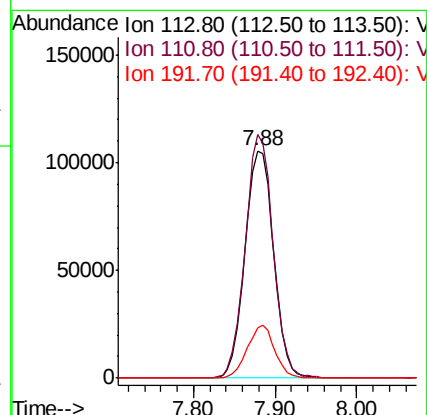
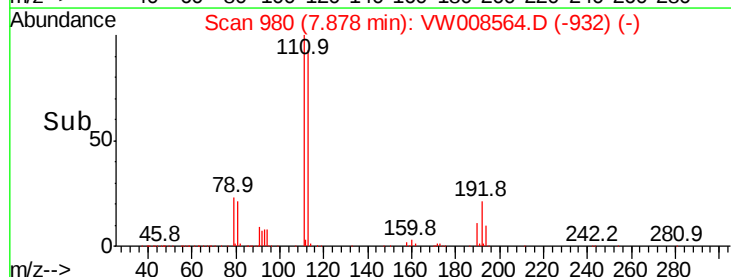
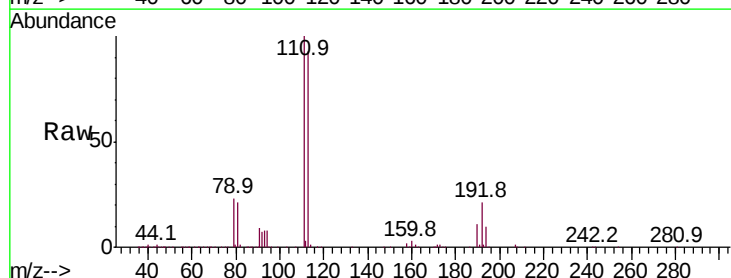
Tgt Ion:113 Resp: 258668

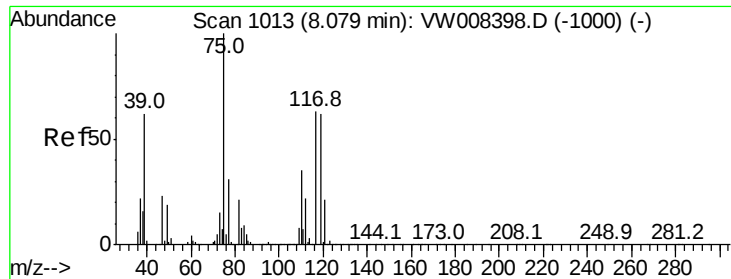
Ion Ratio Lower Upper

113 100

111 104.0 81.0 121.4

192 22.2 16.8 25.2

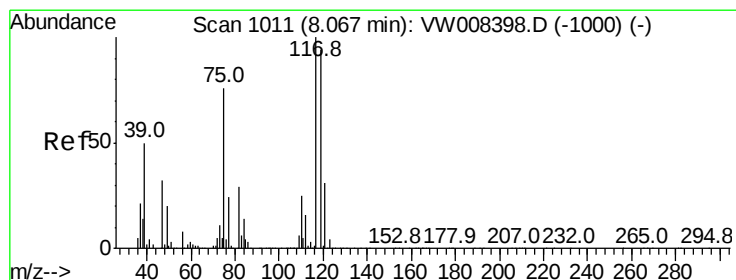
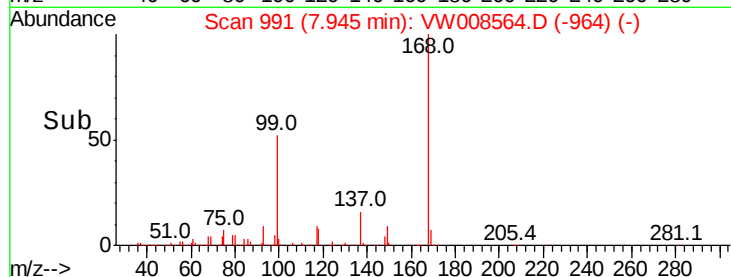
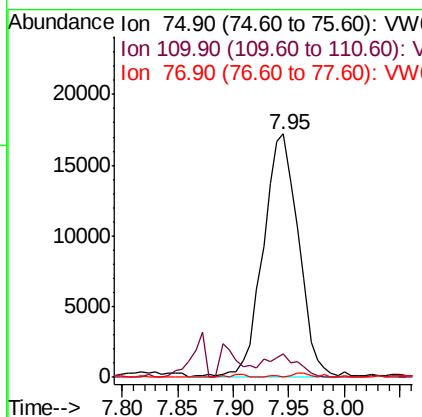
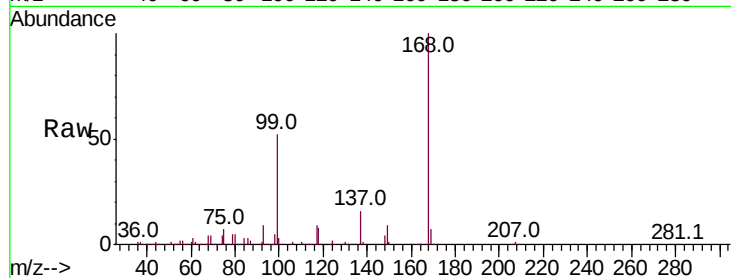




#36  
 1,1-Dichloropropene  
 Concen: 4.859 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.13 min  
 Lab File: VW008564.D  
 Acq: 07 Feb 2019 20:23

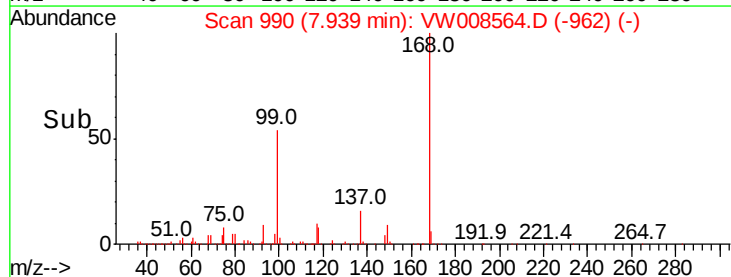
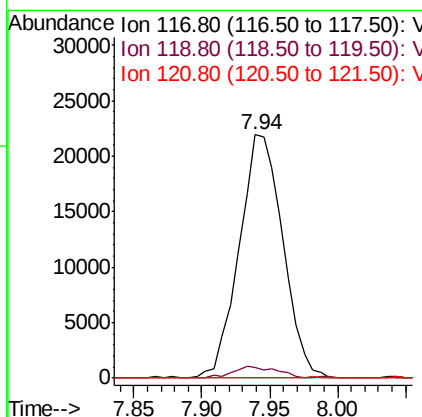
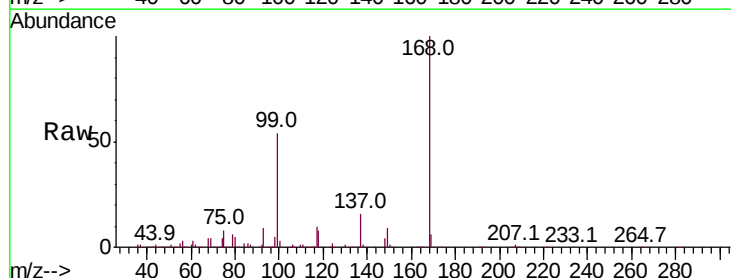
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SB-08(0-2)

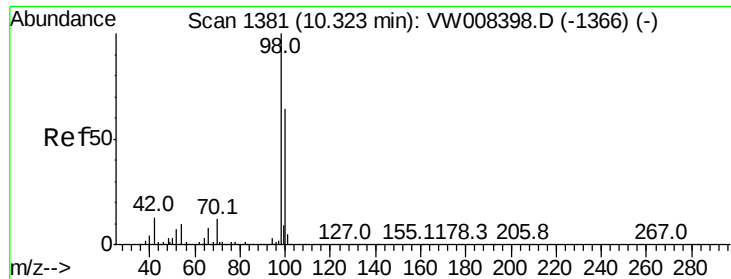
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 8.5   | 17.3  | 52.0# |
| 77      | 1.0   | 24.7  | 37.1# |



#38  
 Carbon Tetrachloride  
 Concen: 6.244 ug/l  
 RT: 7.94 min Scan# 990  
 Delta R.T. -0.13 min  
 Lab File: VW008564.D  
 Acq: 07 Feb 2019 20:23

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 4.4   | 75.0  | 112.4# |
| 121     | 0.0   | 24.9  | 37.3#  |





#50

Toluene-d8

Concen: 50.793 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW008564.D

Acq: 07 Feb 2019 20:23

Instrument :

MSVOA\_W

ClientSampleId :

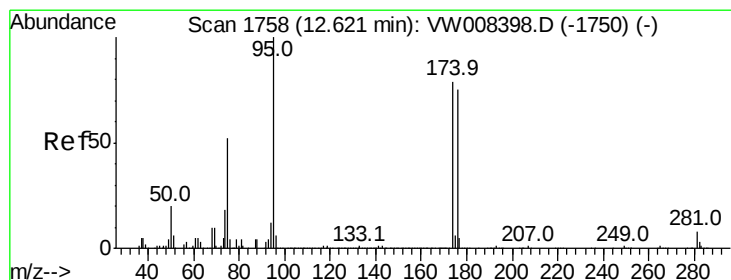
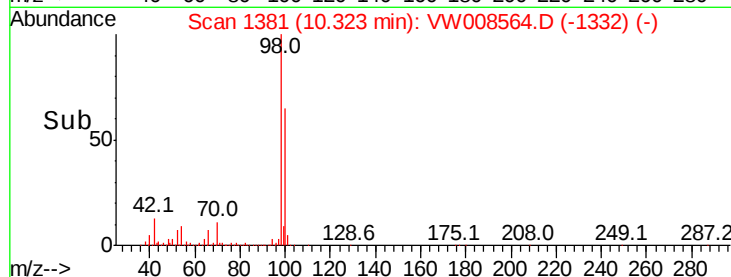
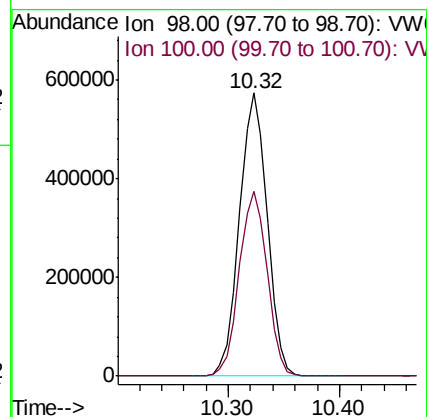
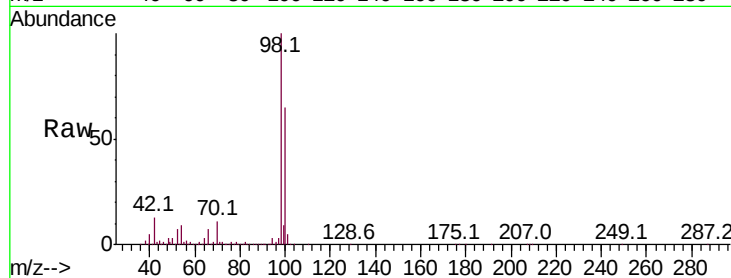
SB-08(0-2)

Tot Ion: 98 Resp: 990771

Ion Ratio Lower Upper

98 100

100 65.5 52.6 78.8



#62

4-Bromofluorobenzene

Concen: 46.641 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW008564.D

Acq: 07 Feb 2019 20:23

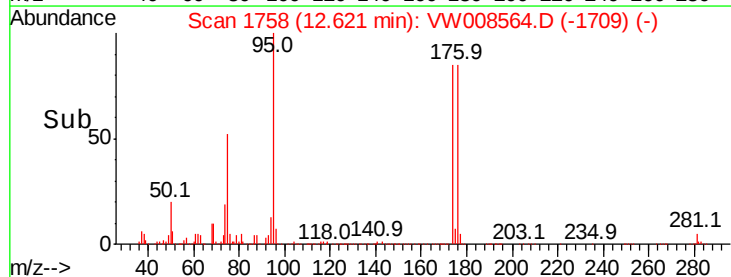
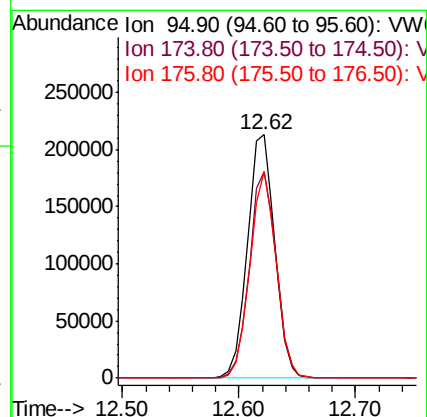
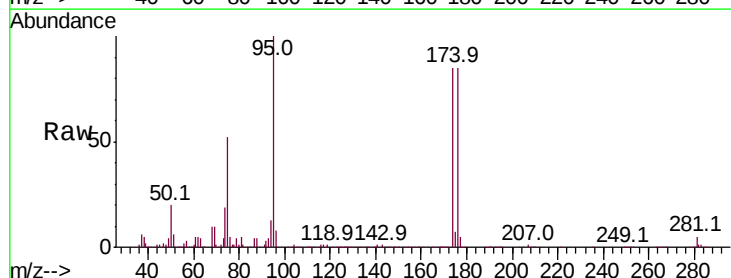
Tgt Ion: 95 Resp: 349706

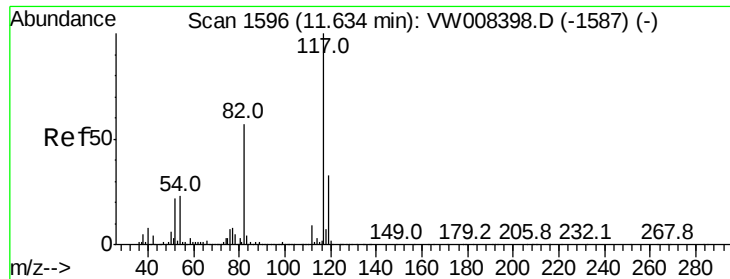
Ion Ratio Lower Upper

95 100

174 83.3 0.0 157.6

176 81.7 0.0 151.8

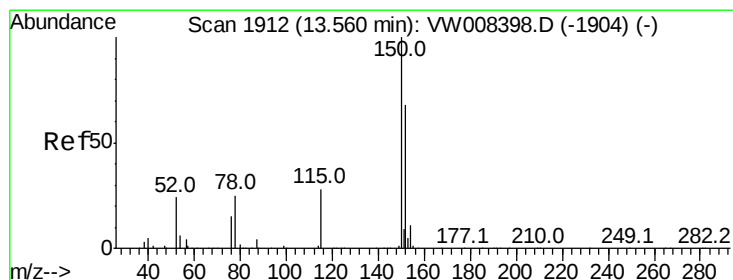
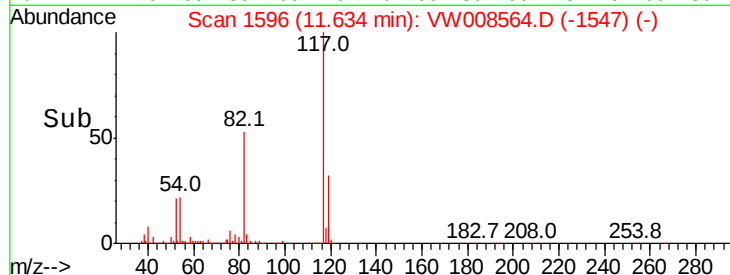
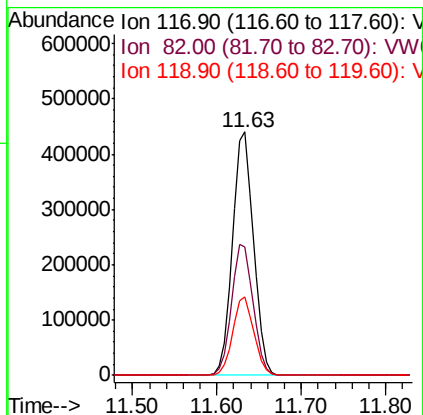
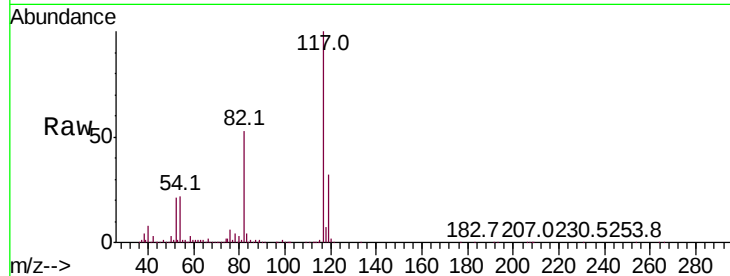




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. 0.00 min  
Lab File: VW008564.D  
Acq: 07 Feb 2019 20:23

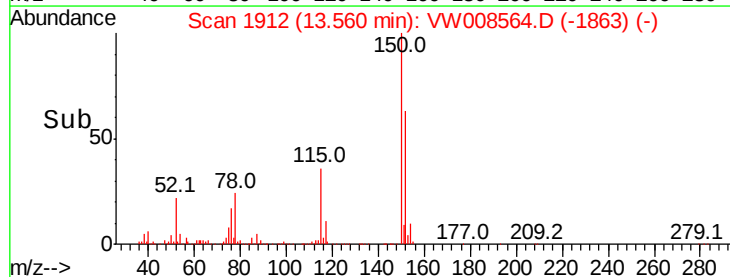
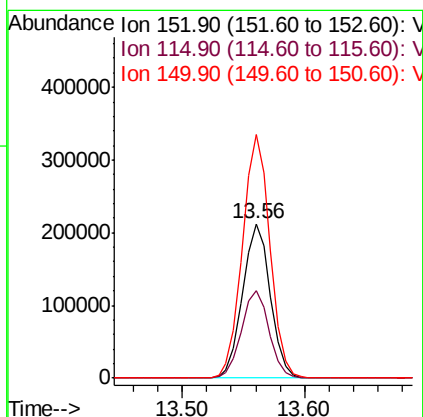
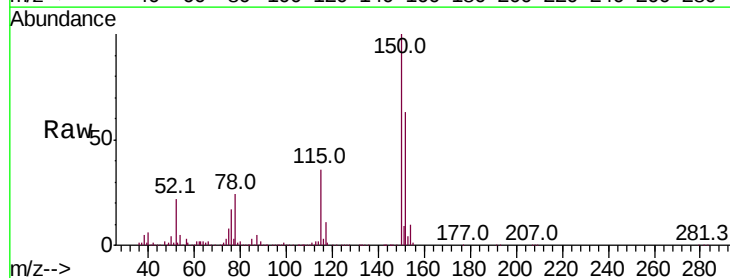
Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-08(0-2)

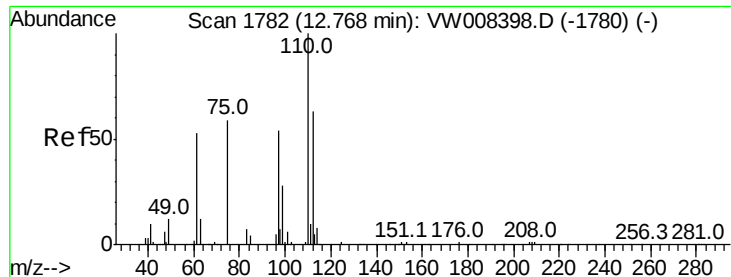
Tot Ion:117 Resp: 743171  
Ion Ratio Lower Upper  
117 100  
82 52.9 45.4 68.0  
119 32.5 26.2 39.4



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. 0.00 min  
Lab File: VW008564.D  
Acq: 07 Feb 2019 20:23

Tgt Ion:152 Resp: 331700  
Ion Ratio Lower Upper  
152 100  
115 56.8 29.9 89.7  
150 157.0 0.0 351.4





#76

1,2,3-Trichloropropane

Concen: 63.328 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW008564.D

Acq: 07 Feb 2019 20:23

Instrument :

MSVOA\_W

ClientSampleId :

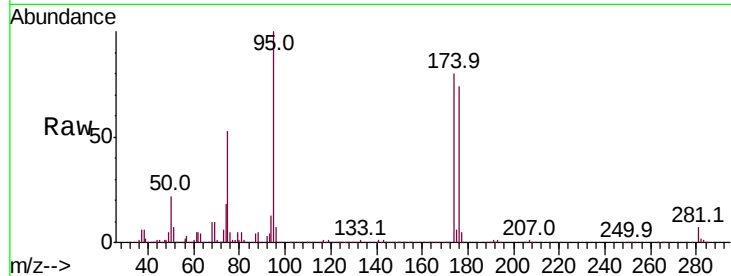
SB-08(0-2)

Tot Ion: 75 Resp: 182632

Ion Ratio Lower Upper

75 100

77 1.5 180.7 542.1#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

12.62

100000

80000

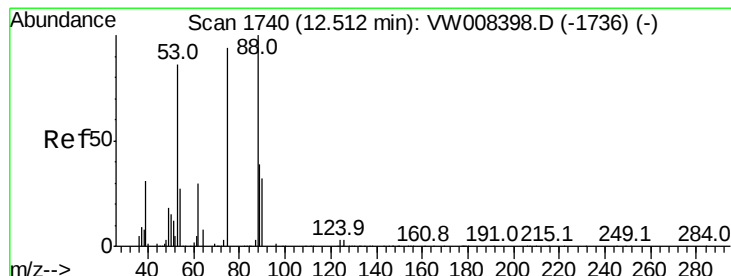
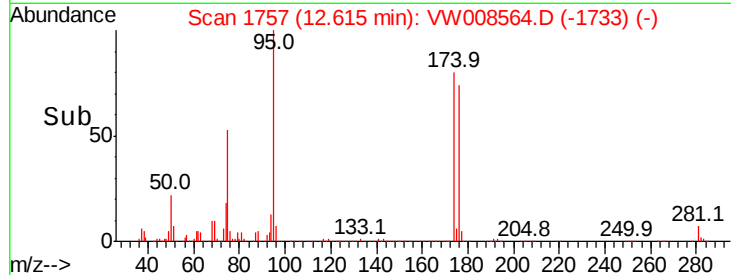
60000

40000

20000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 125.078 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW008564.D

Acq: 07 Feb 2019 20:23

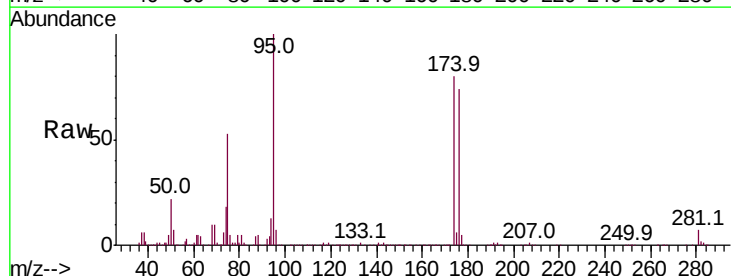
Tgt Ion: 75 Resp: 182632

Ion Ratio Lower Upper

75 100

53 0.1 76.0 114.0#

89 0.2 35.4 53.0#



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

150000

100000

50000

0

Time-->

