

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW072719\  
 Data File : VW011516.D  
 Acq On : 26 Jul 2019 15:12  
 Operator : SY/VA  
 Sample : VW0727SBL01  
 Misc : 5.00G/5.0ML/MSVOA W/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0727SBL01

Quant Time: Jul 27 05:30:12 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W072719S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jul 27 00:23:30 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 231940   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 383578   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 312055   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 132167   | 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   | 136981   | 51.43 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.86% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 112178   | 52.13 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.26% |          |
| 50) Toluene-d8              | 10.32 | 98   | 467002   | 53.00 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 106.00% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 151772   | 48.32 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.64%  |          |

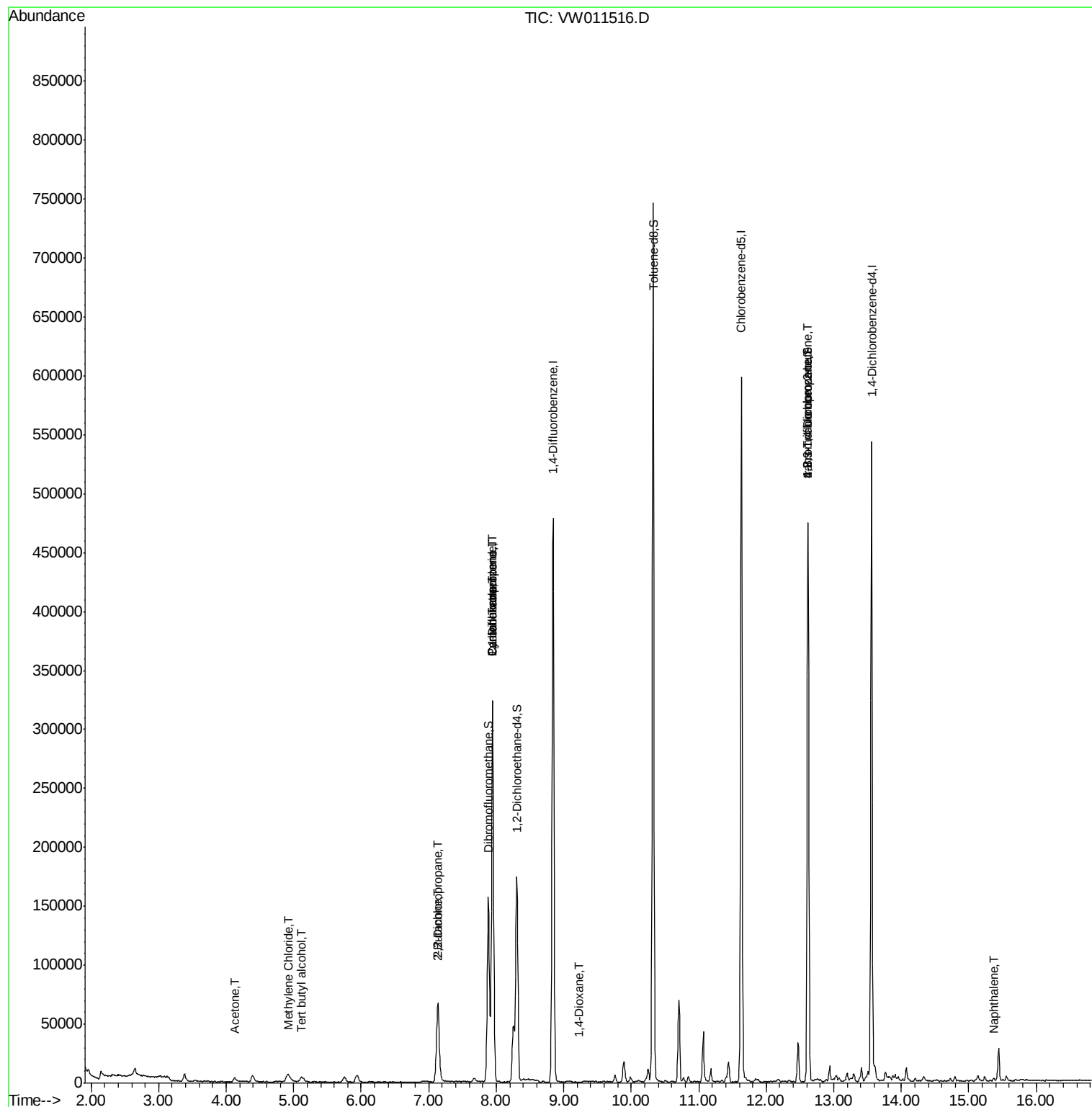
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 11) Tert butyl alcohol         | 5.12  | 59   | 4794     | 7.063   | ug/l # | 74     |
| 16) Acetone                    | 4.13  | 43   | 6276     | 7.408   | ug/l   | 94     |
| 20) Methylene Chloride         | 4.92  | 84   | 4793     | 1.640   | ug/l   | 90     |
| 25) 2-Butanone                 | 7.15  | 43   | 4352     | 3.926   | ug/l # | 79     |
| 26) 2,2-Dichloropropane        | 7.13  | 77   | 4502     | 1.411   | ug/l # | 54     |
| 31) Cyclohexane                | 7.95  | 56   | 5843     | 1.173   | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 21090    | 5.288   | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 23048    | 6.750   | ug/l # | 16     |
| 49) 1,4-Dioxane                | 9.22  | 88   | 34       | 1.721   | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 81188    | 58.055  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 81188    | 133.796 | ug/l # | 6      |
| 95) Naphthalene                | 15.38 | 128  | 1993     | 2.432   | ug/l # | 86     |

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

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Quant Title : SW846 8260  
QLast Update : Sat Jul 27 00:23:30 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: VW011516.D

Acq: 26 Jul 2019 15:12

Instrument :

MSVOA\_W

ClientSampleId :

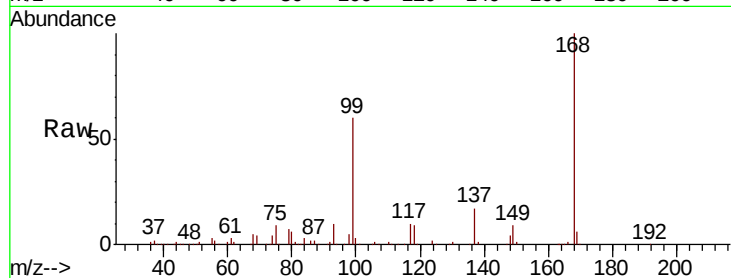
VW0727SBL01

Tot Ion:168 Resp: 231940

Ion Ratio Lower Upper

168 100

99 60.2 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

120000

100000

80000

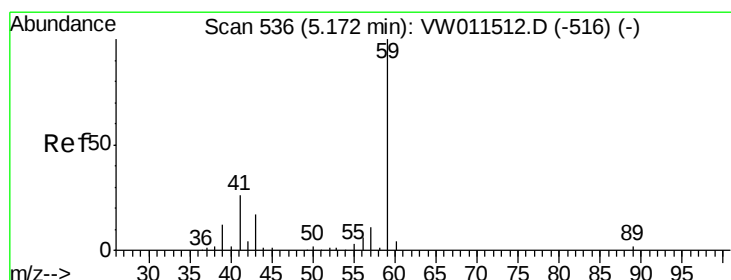
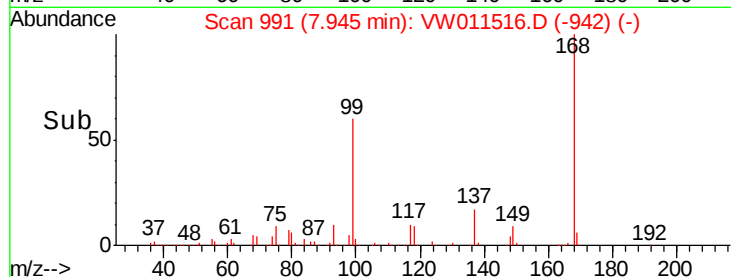
60000

40000

20000

0

Time--> 7.80 7.90 8.00 8.10



#11

Tert butyl alcohol

Concen: 7.063 ug/l

RT: 5.12 min Scan# 527

Delta R.T. -0.05 min

Lab File: VW011516.D

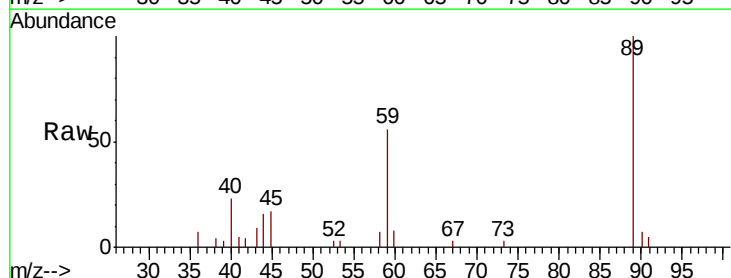
Acq: 26 Jul 2019 15:12

Tgt Ion: 59 Resp: 4794

Ion Ratio Lower Upper

59 100

57 0.6 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.12

1200

1000

800

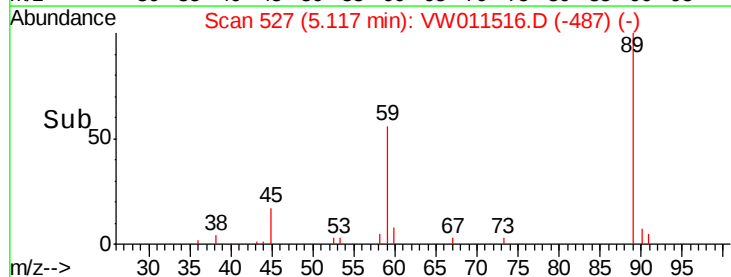
600

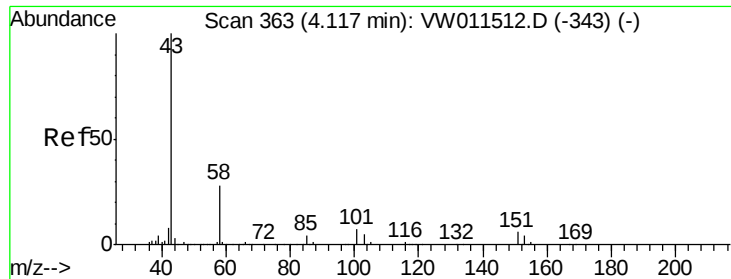
400

200

0

Time--> 5.00 5.10 5.20

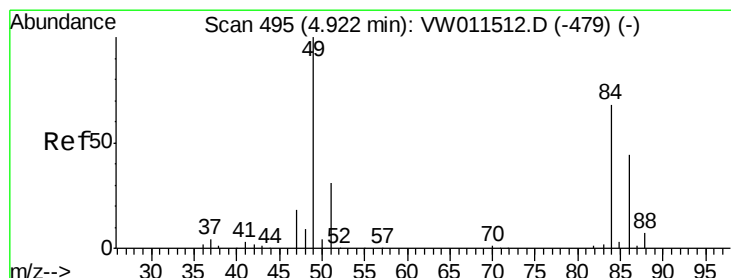
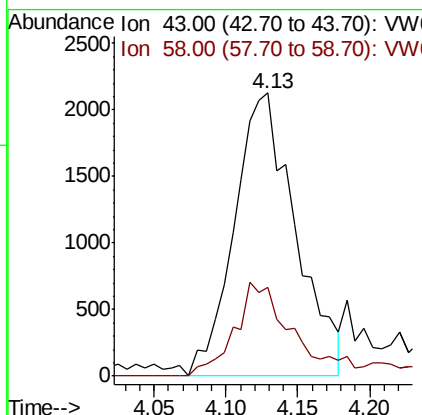
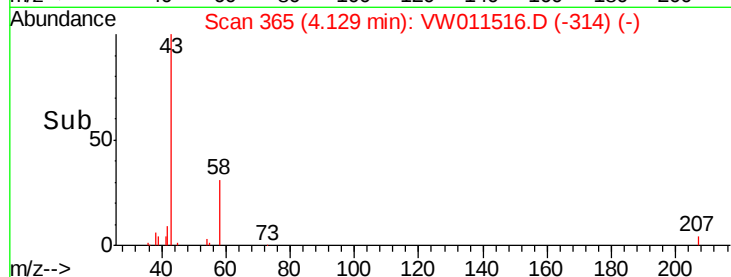
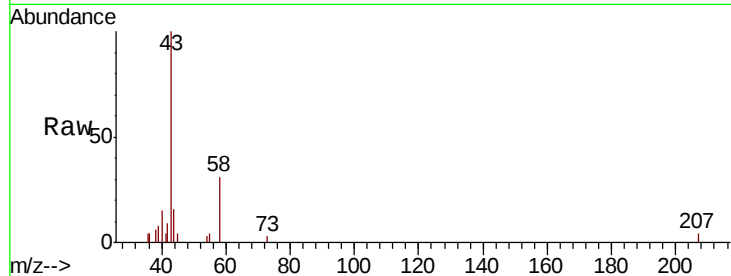




#16  
Acetone  
Concen: 7.408 ug/l  
RT: 4.13 min Scan# 365  
Delta R.T. 0.01 min  
Lab File: VW011516.D  
Acq: 26 Jul 2019 15:12

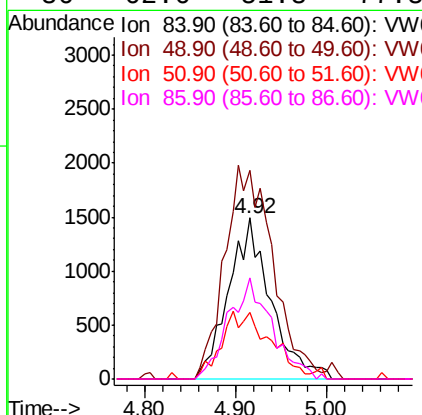
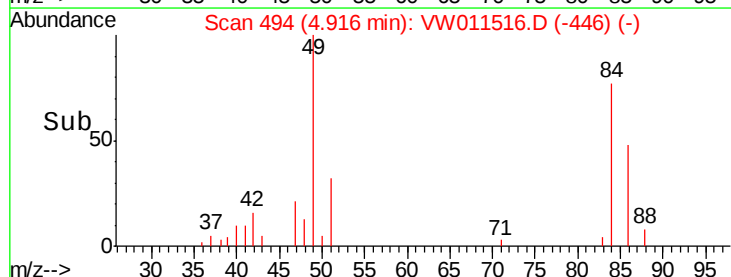
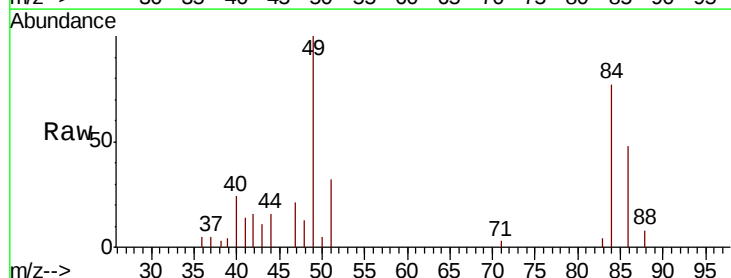
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0727SBL01

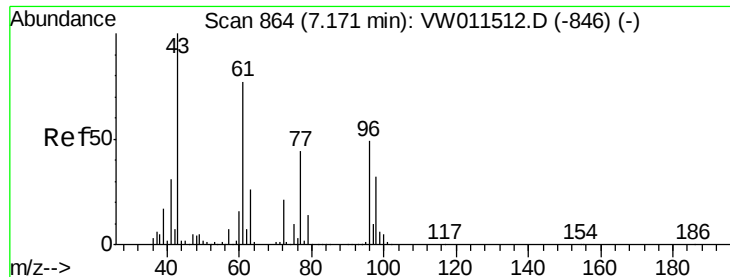
Tot Ion: 43 Resp: 6276  
Ion Ratio Lower Upper  
43 100  
58 31.2 22.3 33.5



#20  
Methylene Chloride  
Concen: 1.640 ug/l  
RT: 4.92 min Scan# 494  
Delta R.T. -0.01 min  
Lab File: VW011516.D  
Acq: 26 Jul 2019 15:12

Tgt Ion: 84 Resp: 4793  
Ion Ratio Lower Upper  
84 100  
49 129.2 117.8 176.6  
51 41.0 37.0 55.4  
86 62.6 51.8 77.8





#25

2-Butanone

Concen: 3.926 ug/l

RT: 7.15 min Scan# 860

Delta R.T. -0.02 min

Lab File: VW011516.D

Acq: 26 Jul 2019 15:12

Instrument :

MSVOA\_W

ClientSampleId :

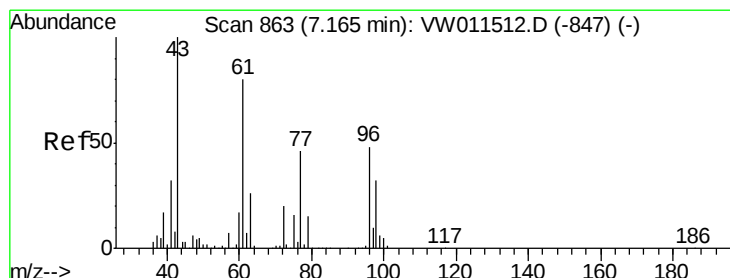
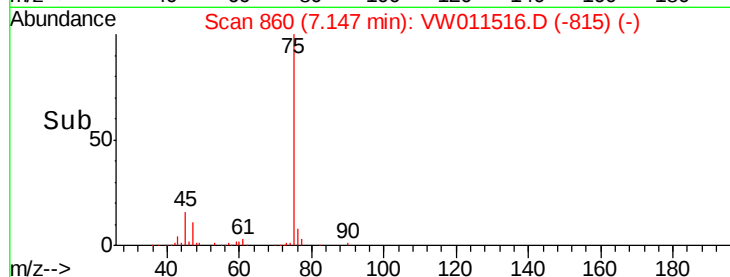
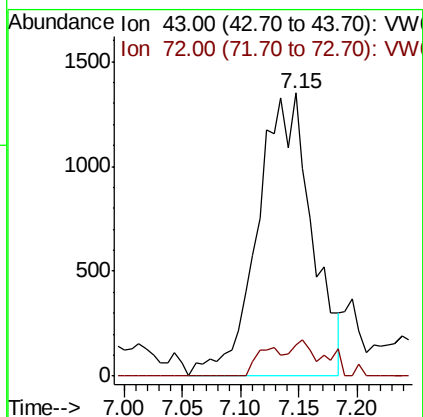
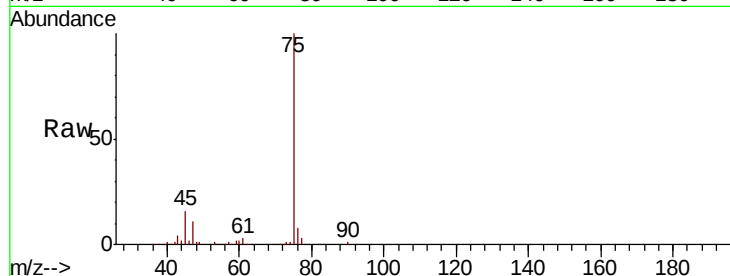
VW0727SBL01

Tot Ion: 43 Resp: 4352

Ion Ratio Lower Upper

43 100

72 11.0 16.6 24.8#



#26

2,2-Dichloropropane

Concen: 1.411 ug/l

RT: 7.13 min Scan# 858

Delta R.T. -0.03 min

Lab File: VW011516.D

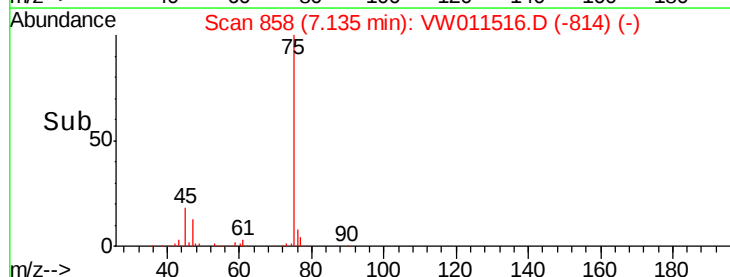
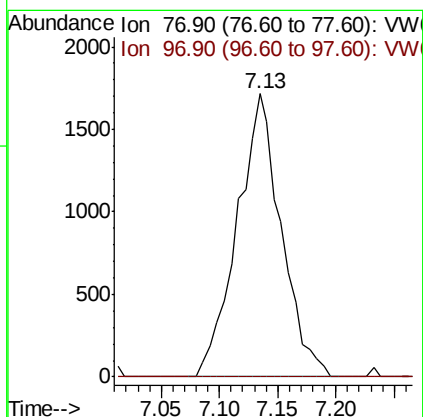
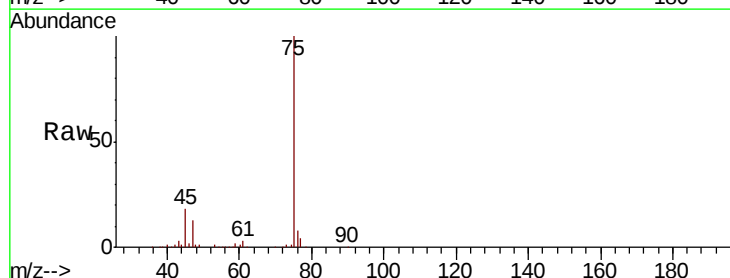
Acq: 26 Jul 2019 15:12

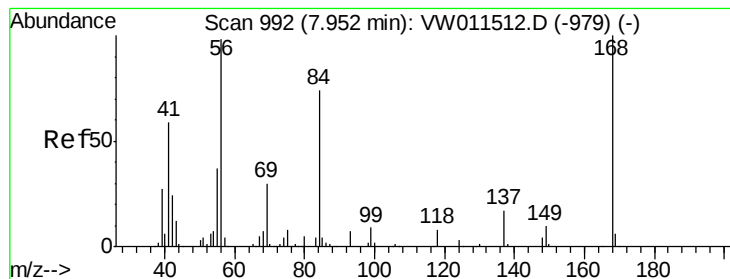
Tgt Ion: 77 Resp: 4502

Ion Ratio Lower Upper

77 100

97 0.0 10.8 32.4#





#31

Cyclohexane

Concen: 1.173 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW011516.D

Acq: 26 Jul 2019 15:12

Instrument :

MSVOA\_W

ClientSampleId :

VW0727SBL01

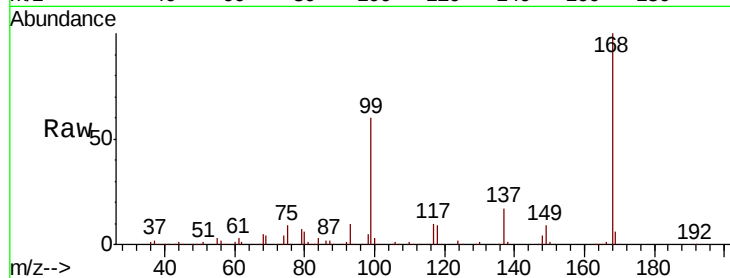
Tot Ion: 56 Resp: 5843

Ion Ratio Lower Upper

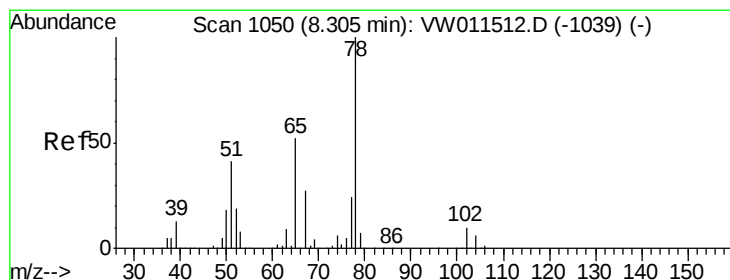
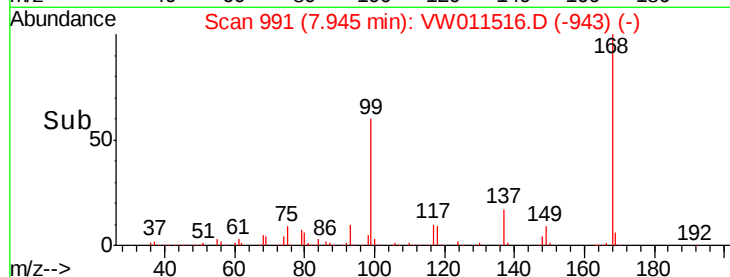
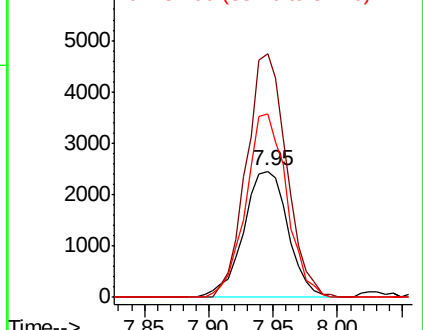
56 100

69 192.5 24.3 36.5#

84 145.1 60.4 90.6#



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: 51.432 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW011516.D

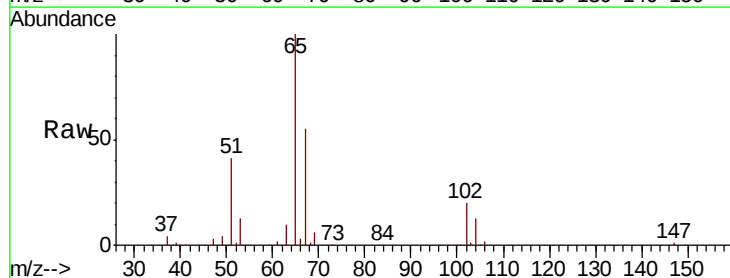
Acq: 26 Jul 2019 15:12

Tgt Ion: 65 Resp: 136981

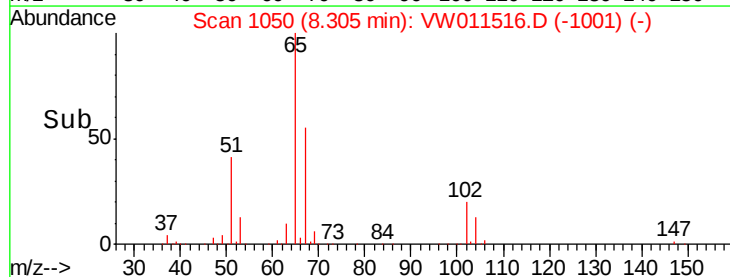
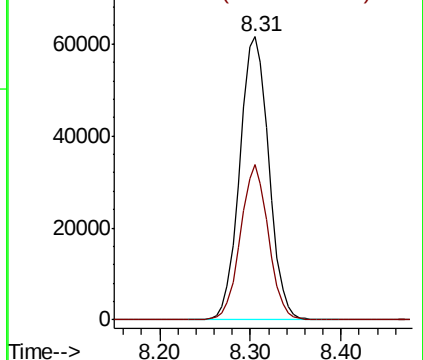
Ion Ratio Lower Upper

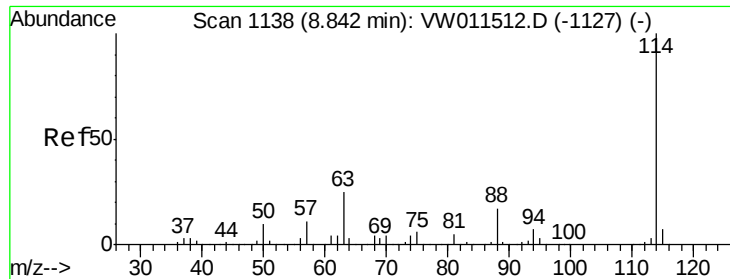
65 100

67 52.5 0.0 105.2



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

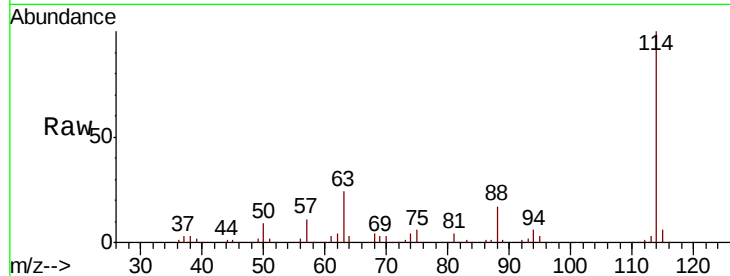




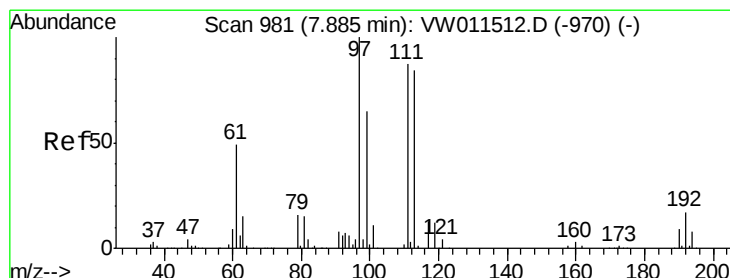
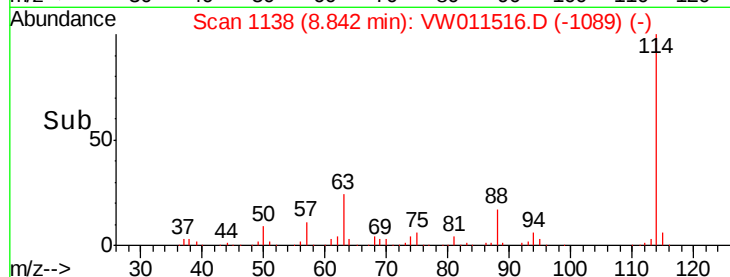
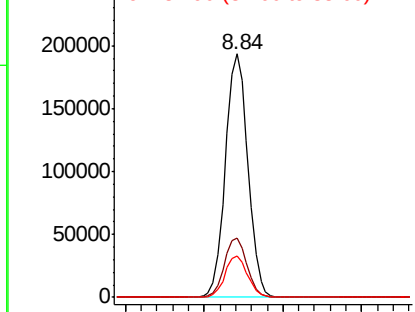
#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.84 min Scan# 1138  
Delta R.T. -0.00 min  
Lab File: VW011516.D  
Acq: 26 Jul 2019 15:12

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0727SBL01

Tot Ion:114 Resp: 383578  
Ion Ratio Lower Upper  
114 100  
63 24.4 0.0 49.2  
88 16.8 0.0 33.8

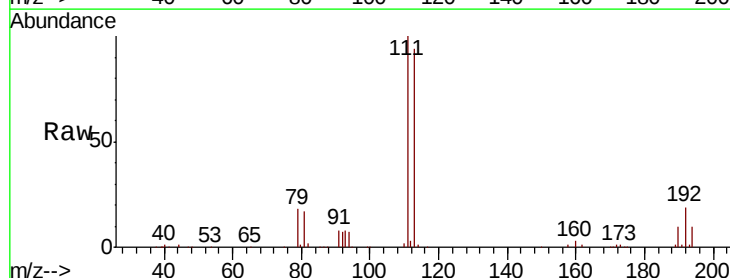


Abundance Ion 113.90 (113.60 to 114.60): V  
Ion 63.00 (62.70 to 63.70): VW  
Ion 87.90 (87.60 to 88.60): VW

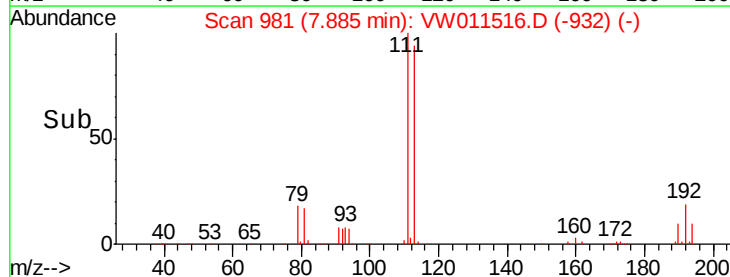
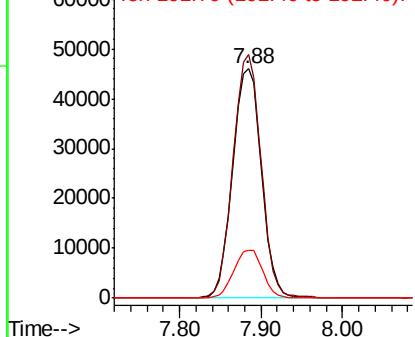


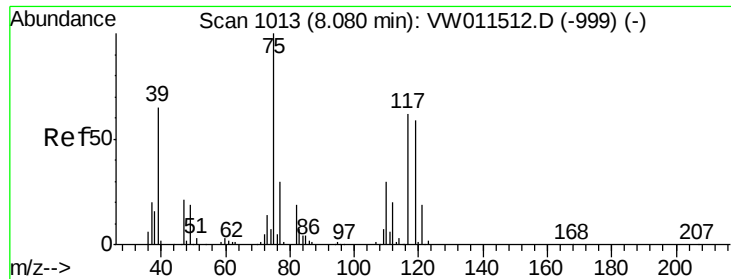
#35  
Dibromofluoromethane  
Concen: 52.129 ug/l  
RT: 7.88 min Scan# 981  
Delta R.T. -0.00 min  
Lab File: VW011516.D  
Acq: 26 Jul 2019 15:12

Tgt Ion:113 Resp: 112178  
Ion Ratio Lower Upper  
113 100  
111 103.0 82.7 124.1  
192 20.9 16.1 24.1



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

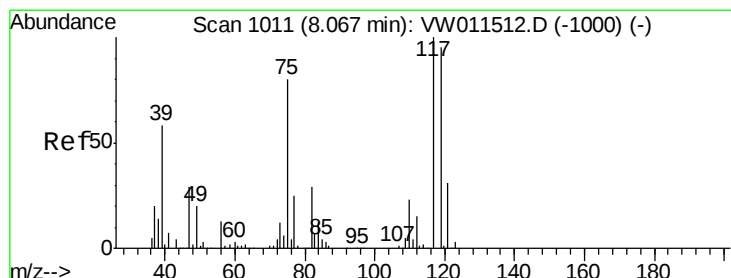
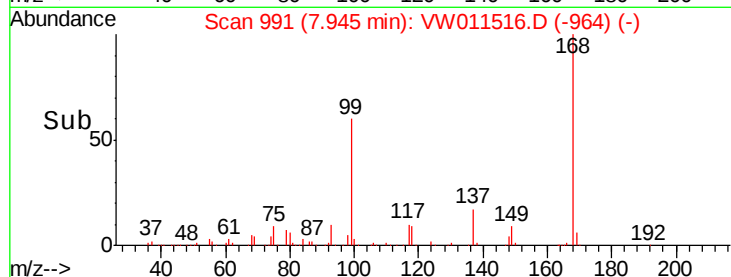
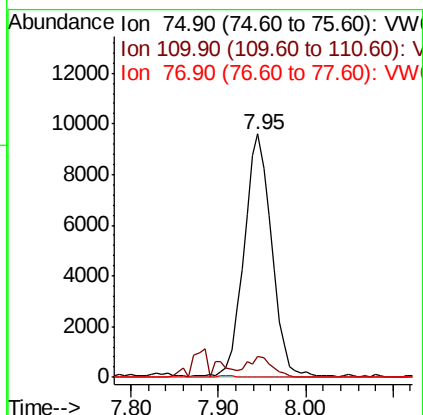
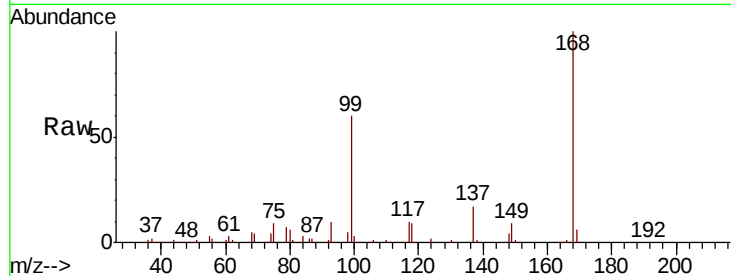




#36  
 1,1-Dichloropropene  
 Concen: 5.288 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.13 min  
 Lab File: VW011516.D  
 Acq: 26 Jul 2019 15:12

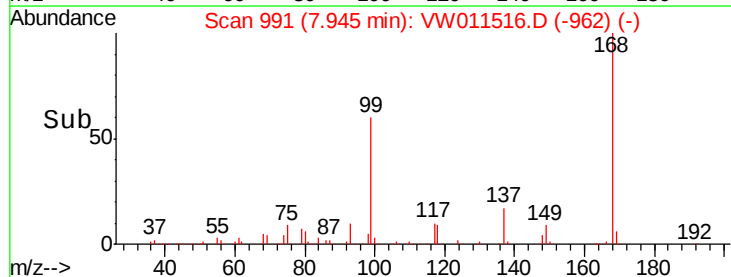
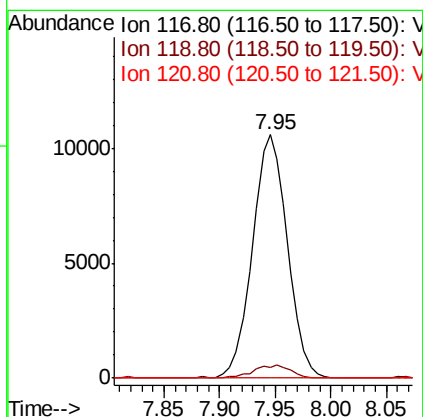
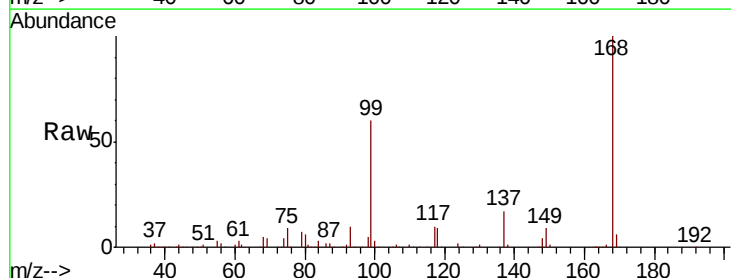
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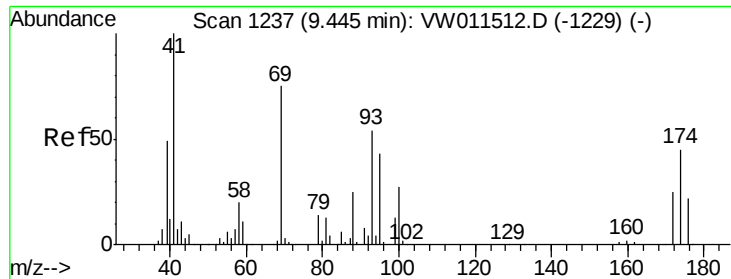
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 7.6   | 15.6  | 46.8# |
| 77      | 0.0   | 24.3  | 36.5# |



#38  
 Carbon Tetrachloride  
 Concen: 6.750 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.12 min  
 Lab File: VW011516.D  
 Acq: 26 Jul 2019 15:12

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 4.3   | 75.8  | 113.6# |
| 121     | 0.0   | 24.7  | 37.1#  |

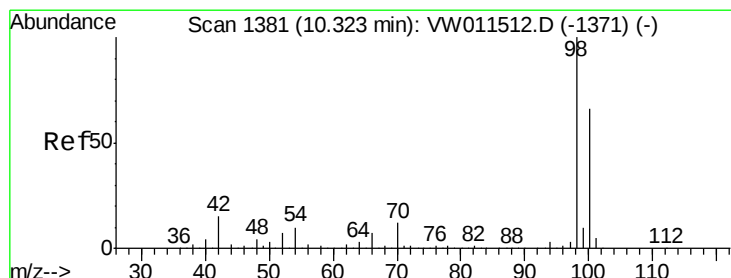
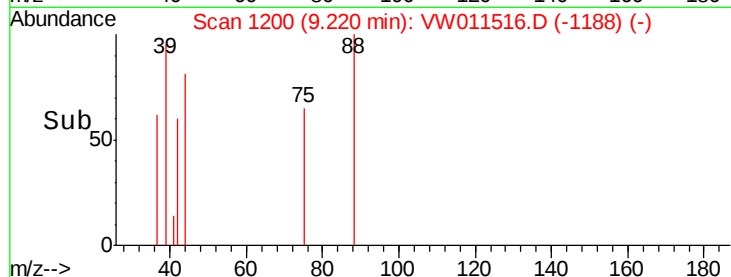
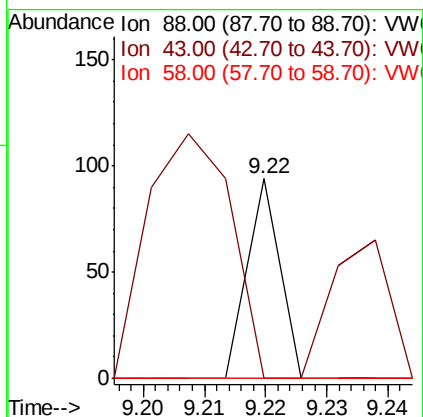
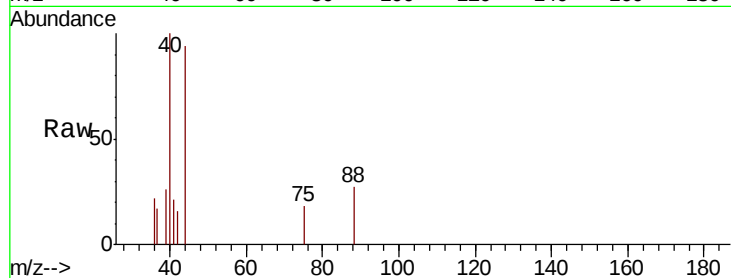




#49  
1,4-Dioxane  
Concen: 1.721 ug/l  
RT: 9.22 min Scan# 1200  
Delta R.T. -0.23 min  
Lab File: VW011516.D  
Acq: 26 Jul 2019 15:12

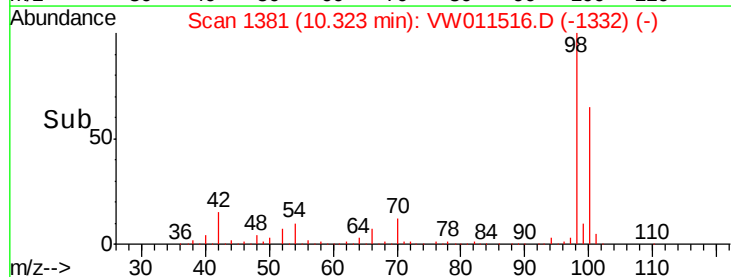
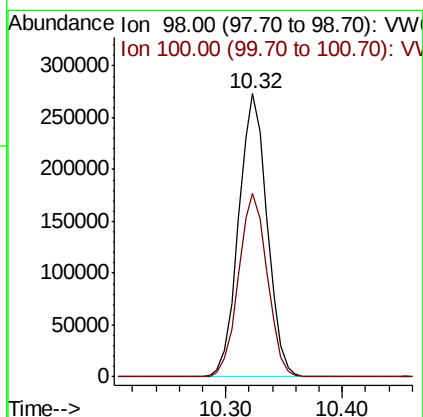
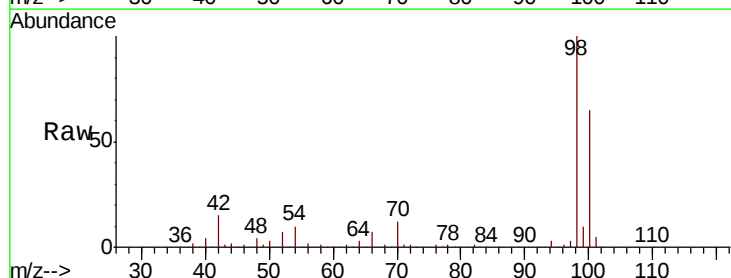
Instrument :  
MSVOA\_W  
ClientSampled :  
VW0727SBL01

Tot Ion: 88 Resp: 34  
Ion Ratio Lower Upper  
88 100  
43 320.6 34.0 51.0#  
58 0.0 69.7 104.5#



#50  
Toluene-d8  
Concen: 53.004 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. -0.00 min  
Lab File: VW011516.D  
Acq: 26 Jul 2019 15:12

Tgt Ion: 98 Resp: 467002  
Ion Ratio Lower Upper  
98 100  
100 65.3 52.7 79.1





#62

4-Bromofluorobenzene

Concen: 48.317 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.01 min

Lab File: VW011516.D

Acq: 26 Jul 2019 15:12

Instrument :

MSVOA\_W

ClientSampleId :

VW0727SBL01

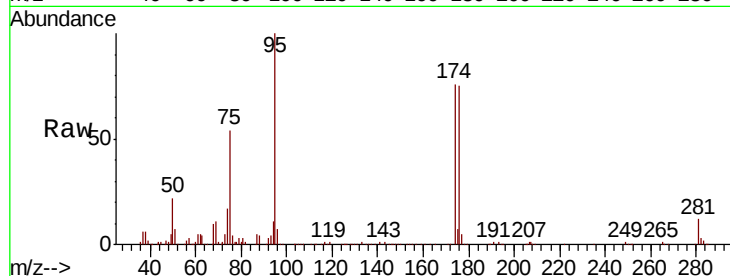
Tot Ion: 95 Resp: 151772

Ion Ratio Lower Upper

95 100

174 75.4 0.0 150.2

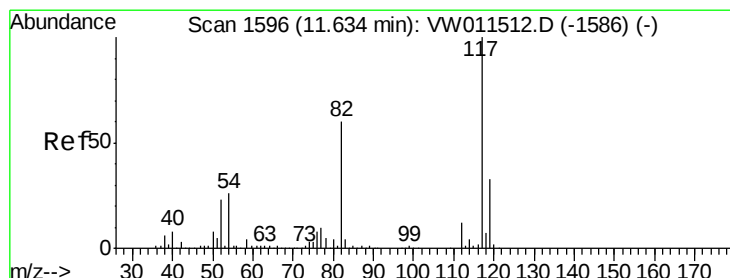
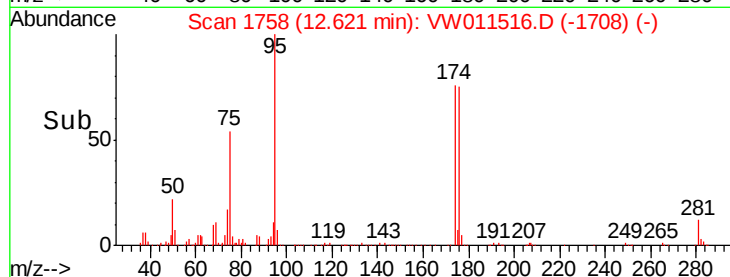
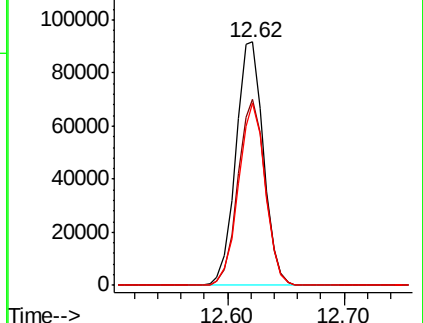
176 72.6 0.0 144.4



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): VW

Ion 175.80 (175.50 to 176.50): VW



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. -0.00 min

Lab File: VW011516.D

Acq: 26 Jul 2019 15:12

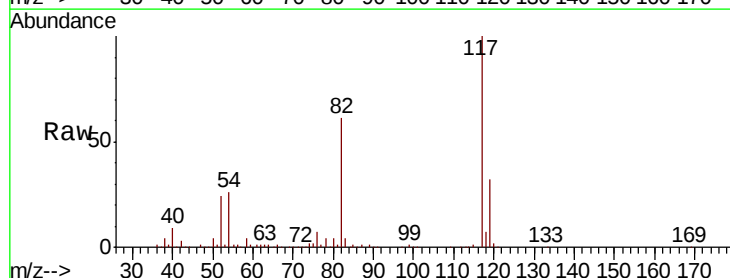
Tgt Ion: 117 Resp: 312055

Ion Ratio Lower Upper

117 100

82 60.9 47.9 71.9

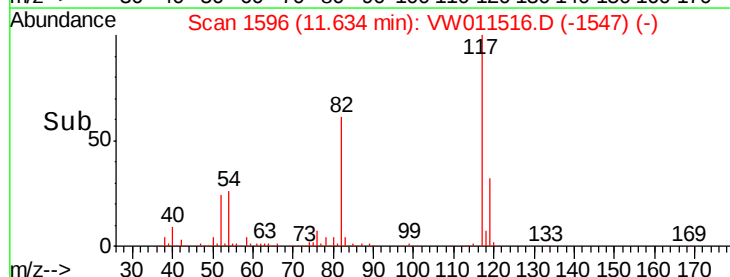
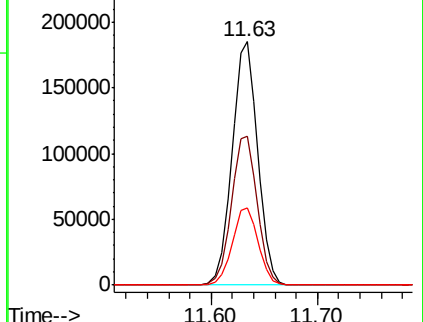
119 32.0 26.2 39.2



Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW



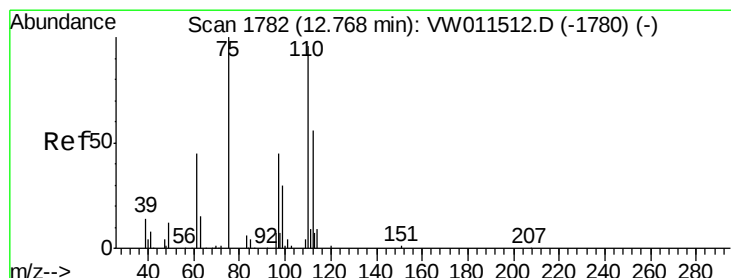
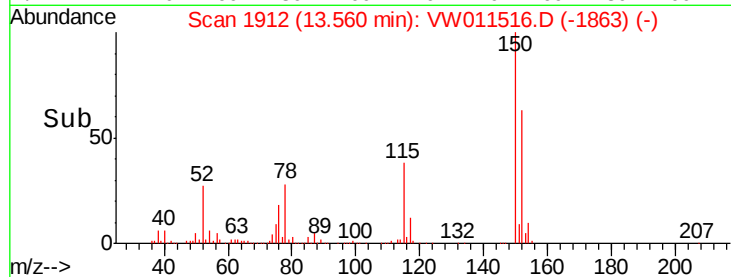
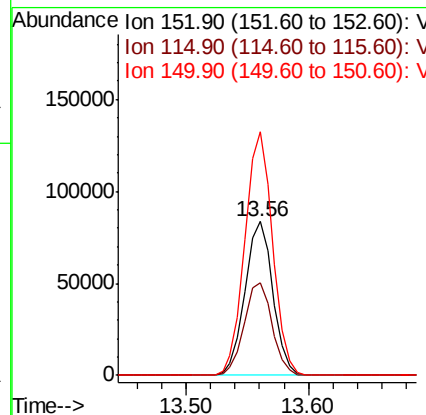
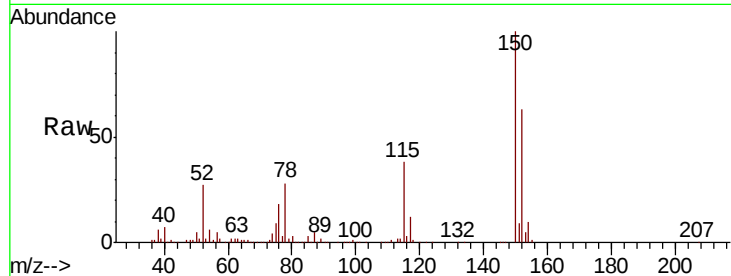


#72

1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. -0.00 min  
Lab File: VW011516.D  
Acq: 26 Jul 2019 15:12

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0727SBL01

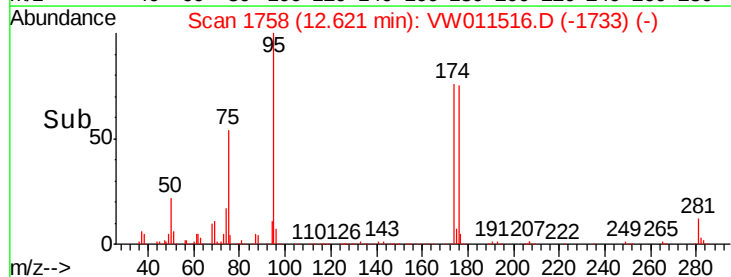
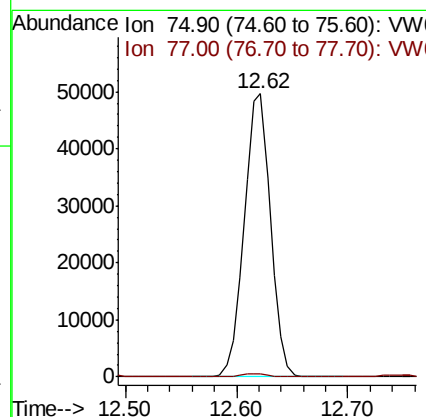
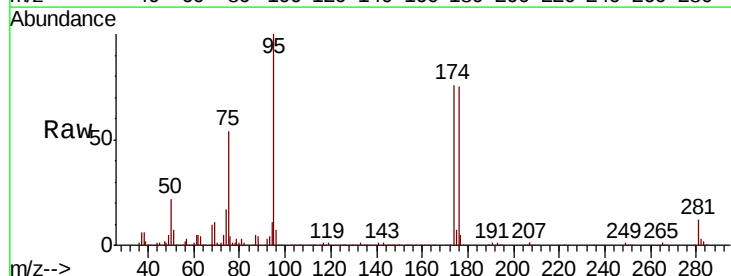
Tot Ion:152 Resp: 132167  
Ion Ratio Lower Upper  
152 100  
115 60.4 30.5 91.5  
150 157.5 0.0 352.6

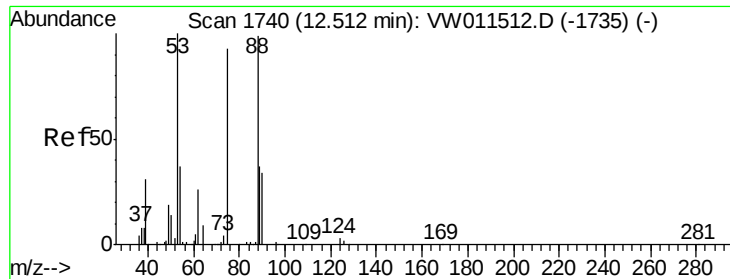


#76

1,2,3-Trichloropropane  
Concen: 58.055 ug/l  
RT: 12.62 min Scan# 1758  
Delta R.T. -0.15 min  
Lab File: VW011516.D  
Acq: 26 Jul 2019 15:12

Tgt Ion: 75 Resp: 81188  
Ion Ratio Lower Upper  
75 100  
77 1.3 0.0 0.0#

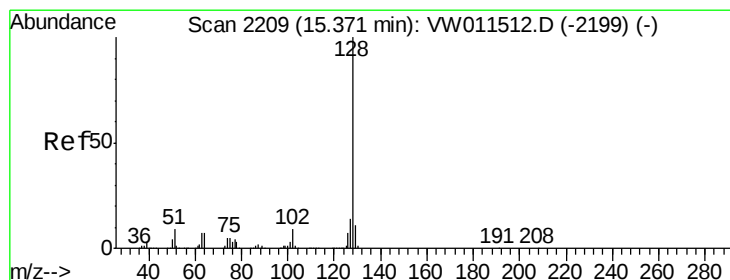
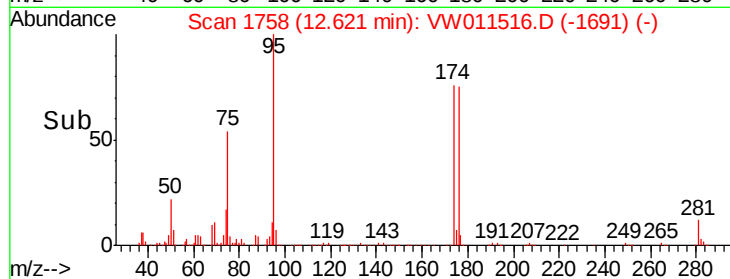
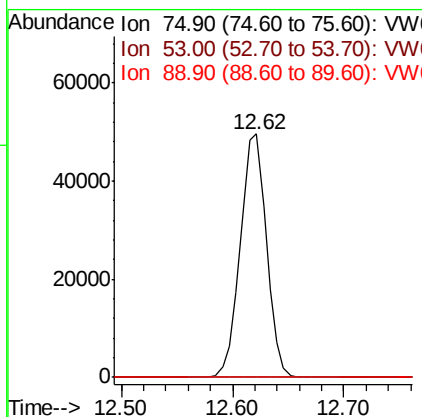
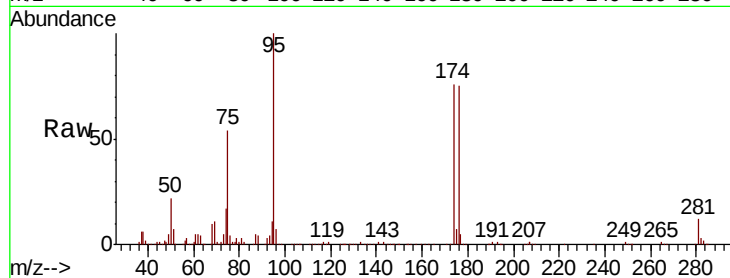




#81  
trans-1,4-Dichloro-2-butene  
Concen: 133.796 ug/l  
RT: 12.62 min Scan# 1758  
Delta R.T. 0.11 min  
Lab File: VW011516.D  
Acq: 26 Jul 2019 15:12

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0727SBL01

Tot Ion: 75 Resp: 81188  
Ion Ratio Lower Upper  
75 100  
53 0.1 88.0 132.0#  
89 0.1 35.3 52.9#



#95  
Naphthalene  
Concen: 2.432 ug/l  
RT: 15.38 min Scan# 2210  
Delta R.T. 0.01 min  
Lab File: VW011516.D  
Acq: 26 Jul 2019 15:12

Tgt Ion:128 Resp: 1993  
Ion Ratio Lower Upper  
128 100  
127 17.7 10.6 16.0#  
129 4.1 8.6 13.0#

