

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW041520\  
 Data File : VW015203.D  
 Acq On : 15 Apr 2020 15:46  
 Operator : SY/VA  
 Sample : VW0415SBL01  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Apr 16 04:23:01 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W041520S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 15 14:44:16 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 591567   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 1006649  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 856896   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.55 | 152  | 377613   | 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   | 267511   | 47.82 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.64% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 273379   | 49.11 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.22% |          |
| 50) Toluene-d8              | 10.32 | 98   | 1113116  | 49.22 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.44% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 371591   | 46.92 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.84% |          |

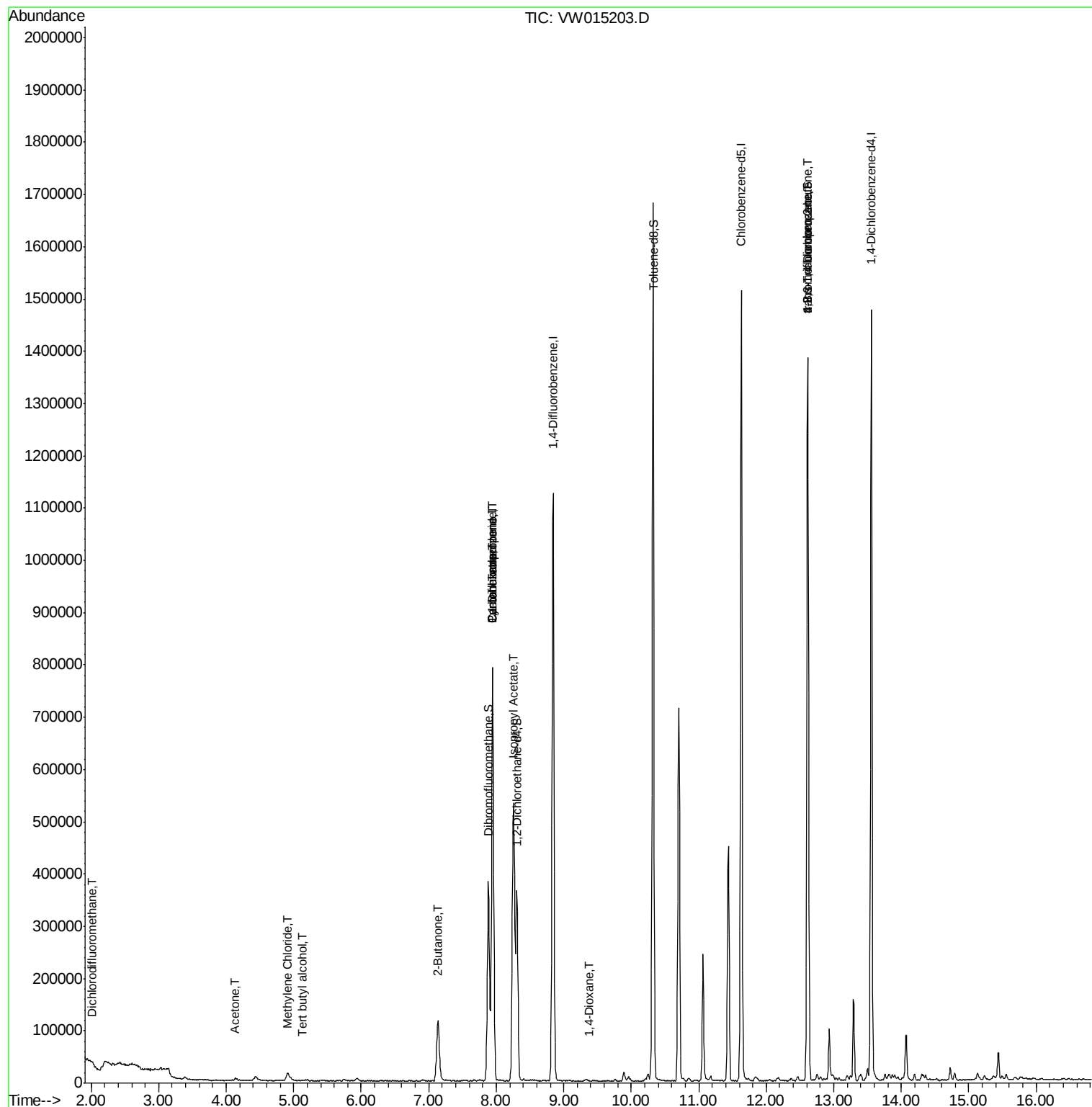
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane     | 2.01  | 85   | 326      | 2.218   | ug/l # | 40     |
| 11) Tert butyl alcohol         | 5.12  | 59   | 482      | 1.161   | ug/l # | 36     |
| 16) Acetone                    | 4.14  | 43   | 6782     | 6.807   | ug/l # | 74     |
| 20) Methylene Chloride         | 4.90  | 84   | 10908    | 1.581   | ug/l # | 93     |
| 25) 2-Butanone                 | 7.14  | 43   | 6243     | 3.916   | ug/l # | 89     |
| 31) Cyclohexane                | 7.95  | 56   | 13658    | 1.168   | ug/l # | 18     |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 47351    | 5.265   | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 62374    | 7.544   | ug/l # | 18     |
| 43) Isopropyl Acetate          | 8.26  | 43   | 12410    | 1.697   | ug/l # | 32     |
| 49) 1,4-Dioxane                | 9.38  | 88   | 52       | 1.044   | ug/l # | 24     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 190720   | 59.001  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 190720   | 114.152 | ug/l # | 15     |

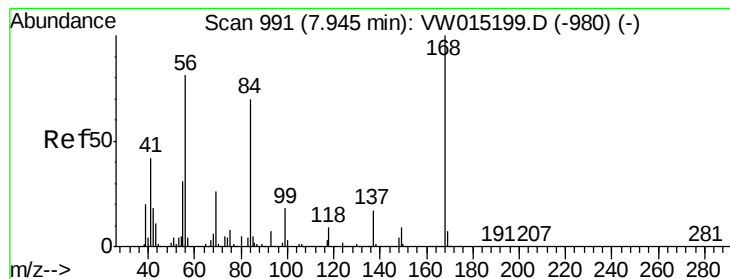
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW041520\  
Data File : VW015203.D  
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Operator : SY/VA  
Sample : VW0415SBL01  
Misc : 5.00G/5ML/MSVOA W/SOIL  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :

Quant Time: Apr 16 04:23:01 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W041520S.M  
Quant Title : SW846 8260  
QLast Update : Wed Apr 15 14:44:16 2020  
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: VW015203.D

Acq: 15 Apr 2020 15:46

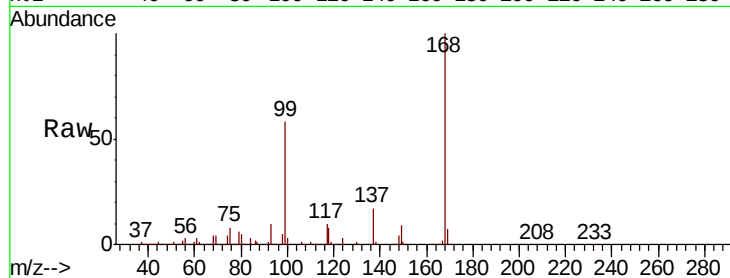
Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion:168 Resp: 591567

Ion Ratio Lower Upper

168 100

99 58.0 48.5 72.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

250000

200000

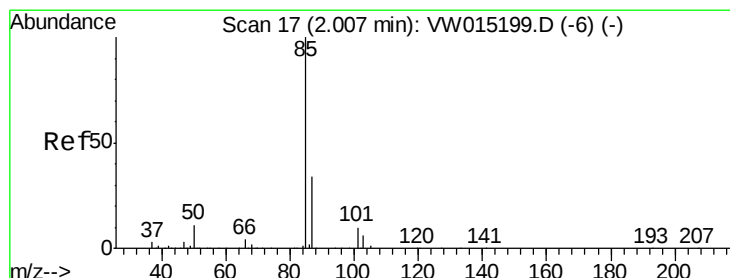
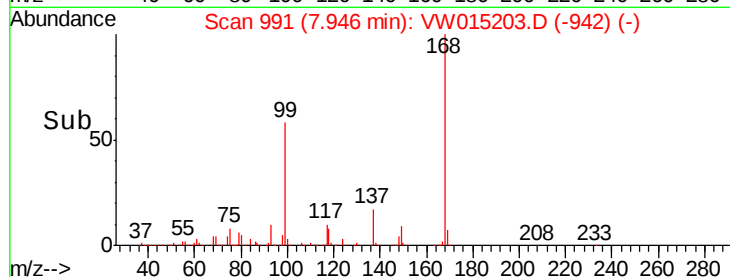
150000

100000

50000

0

Time--> 7.80 7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: 2.218 ug/l

RT: 2.01 min Scan# 18

Delta R.T. 0.01 min

Lab File: VW015203.D

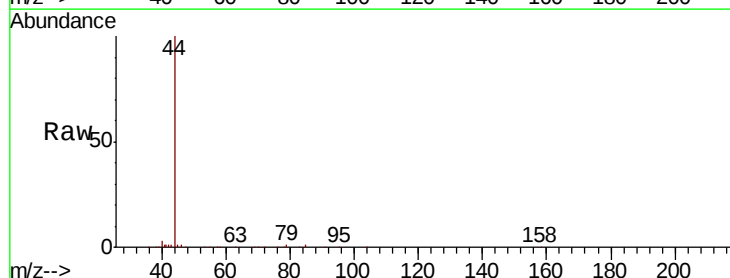
Acq: 15 Apr 2020 15:46

Tgt Ion: 85 Resp: 326

Ion Ratio Lower Upper

85 100

87 0.0 17.2 51.6#



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

300

250

200

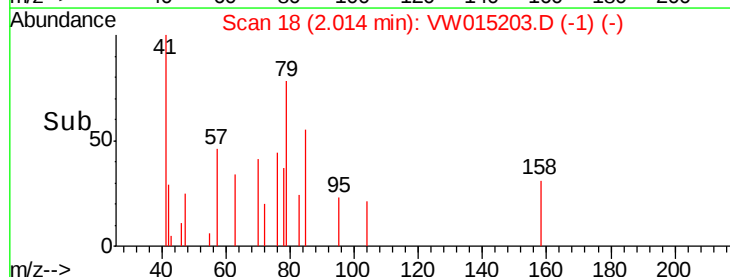
150

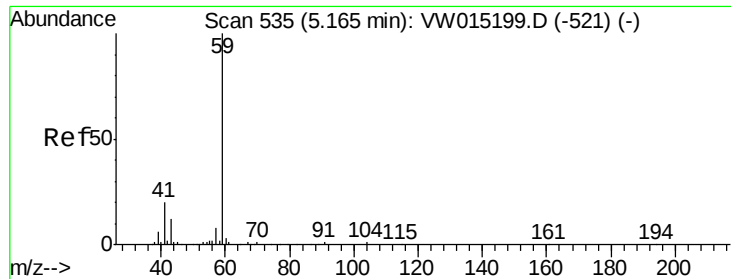
100

50

0

Time--> 1.96 1.98 2.00 2.02 2.04

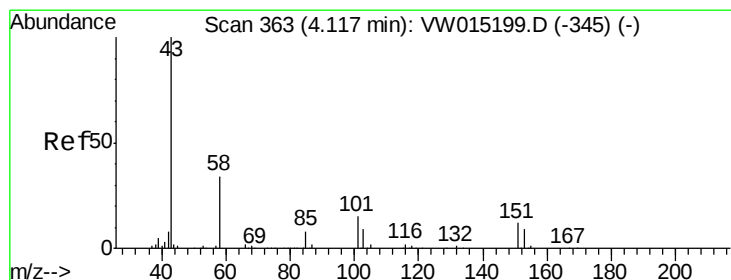
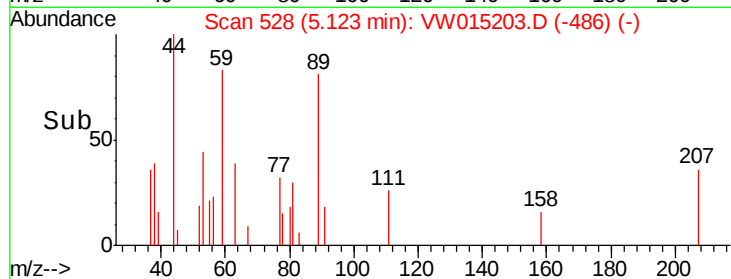
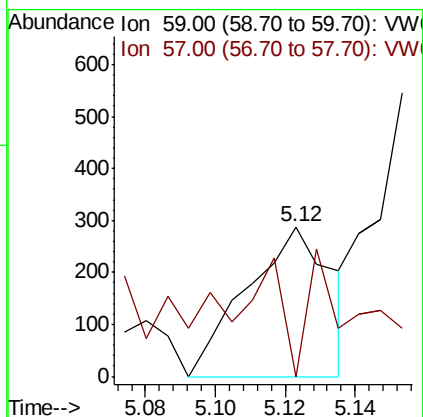
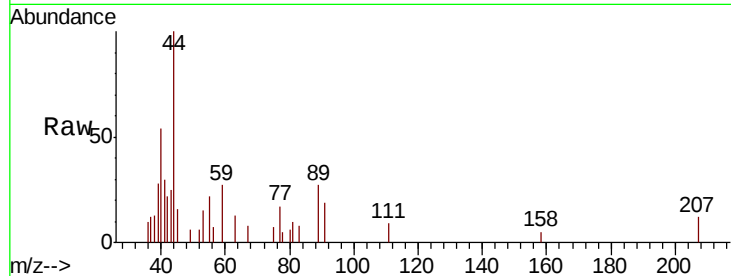




#11  
Tert butyl alcohol  
Concen: 1.161 ug/l  
RT: 5.12 min Scan# 528  
Delta R.T. -0.04 min  
Lab File: VW015203.D  
Acq: 15 Apr 2020 15:46

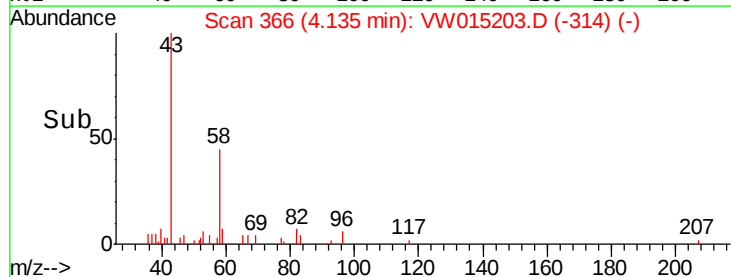
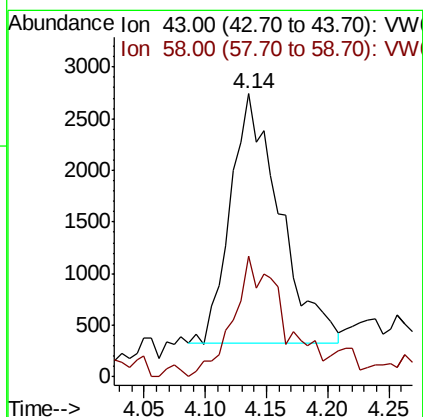
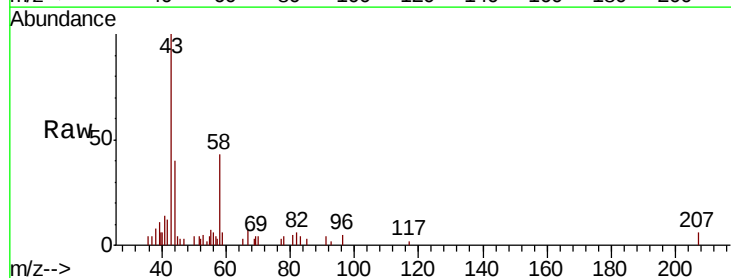
Instrument :  
MSVOA\_W  
ClientSampled :

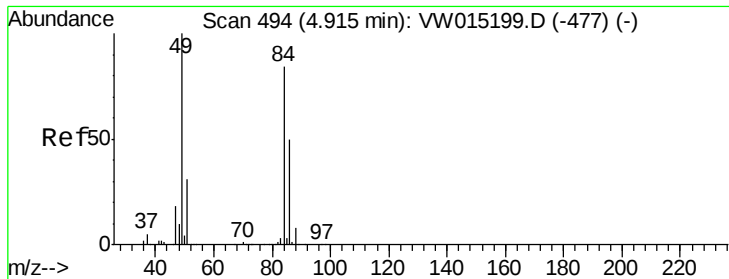
Tot Ion: 59 Resp: 482  
Ion Ratio Lower Upper  
59 100  
57 34.6 8.4 12.6#



#16  
Acetone  
Concen: 6.807 ug/l  
RT: 4.14 min Scan# 366  
Delta R.T. 0.02 min  
Lab File: VW015203.D  
Acq: 15 Apr 2020 15:46

Tgt Ion: 43 Resp: 6782  
Ion Ratio Lower Upper  
43 100  
58 48.3 27.0 40.4#

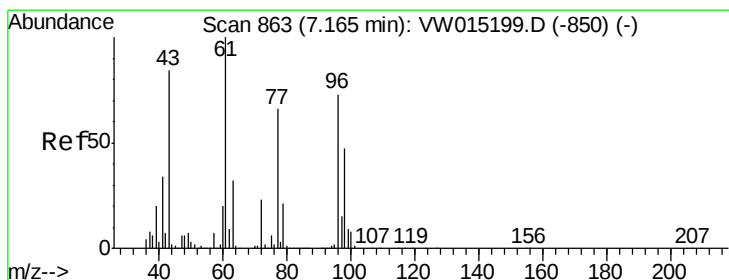
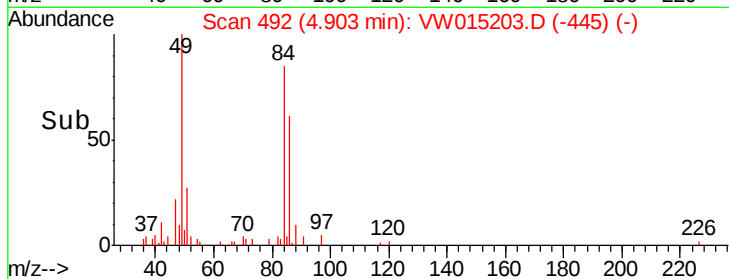
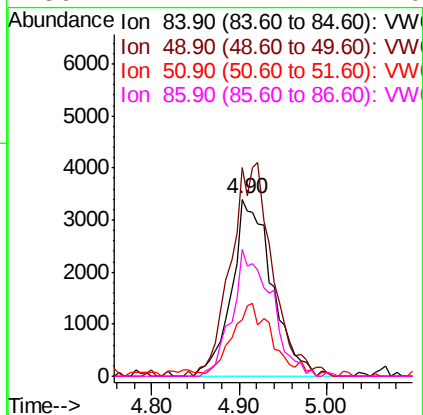
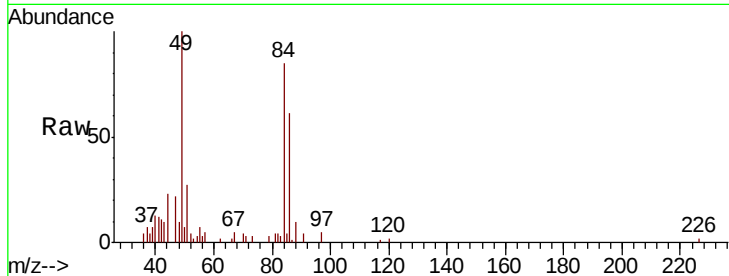




#20  
Methylene Chloride  
Concen: 1.581 ug/l  
RT: 4.90 min Scan# 492  
Delta R.T. -0.01 min  
Lab File: VW015203.D  
Acq: 15 Apr 2020 15:46

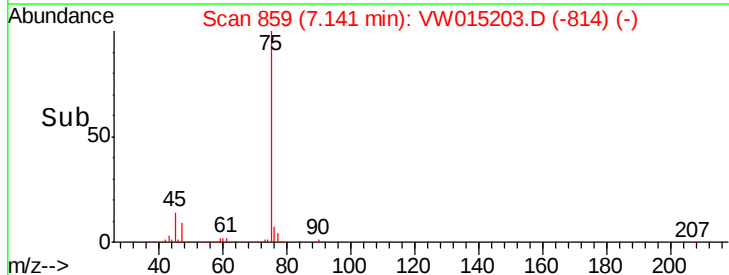
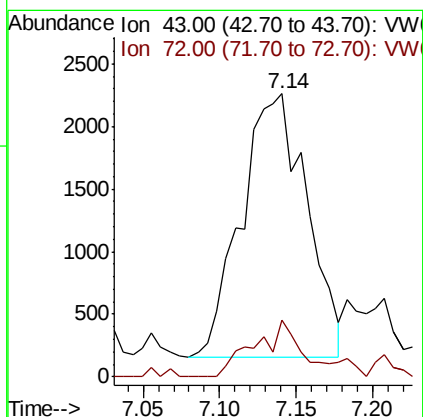
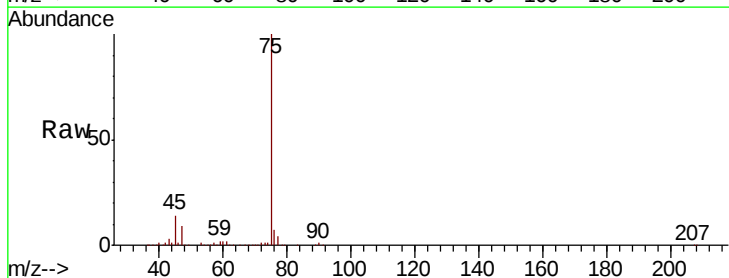
Instrument :  
MSVOA\_W  
ClientSampleId :

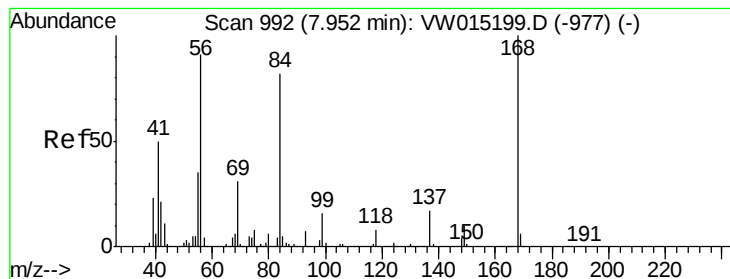
Tot Ion: 84 Resp: 10908  
Ion Ratio Lower Upper  
84 100  
49 118.1 95.4 143.0  
51 31.7 29.8 44.8  
86 71.7 47.4 71.0#



#25  
2-Butanone  
Concen: 3.916 ug/l  
RT: 7.14 min Scan# 859  
Delta R.T. -0.02 min  
Lab File: VW015203.D  
Acq: 15 Apr 2020 15:46

Tgt Ion: 43 Resp: 6243  
Ion Ratio Lower Upper  
43 100  
72 21.5 21.6 32.4#





#31

Cyclohexane

Concen: 1.168 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW015203.D

Acq: 15 Apr 2020 15:46

Instrument :

MSVOA\_W

ClientSampled :

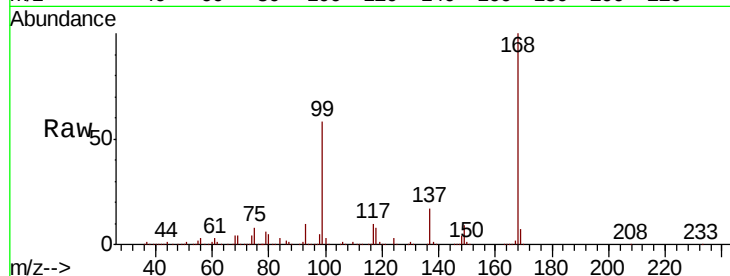
Tot Ion: 56 Resp: 13658

Ion Ratio Lower Upper

56 100

69 144.8 27.1 40.7#

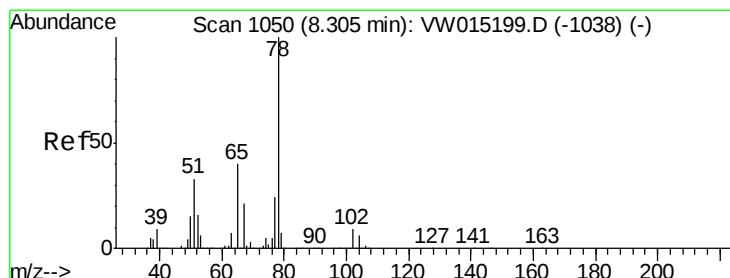
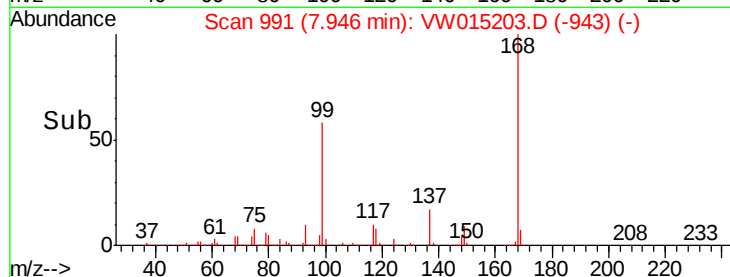
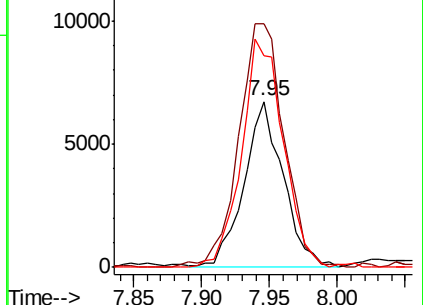
84 127.4 71.9 107.9#



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: 47.824 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW015203.D

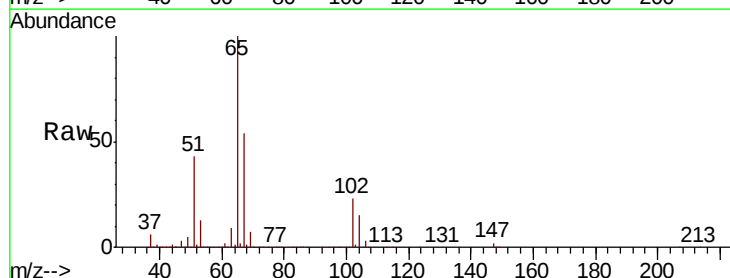
Acq: 15 Apr 2020 15:46

Tgt Ion: 65 Resp: 267511

Ion Ratio Lower Upper

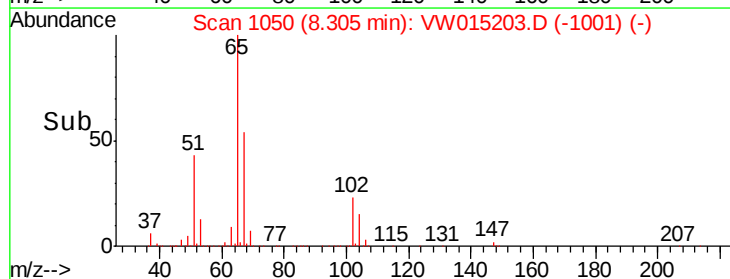
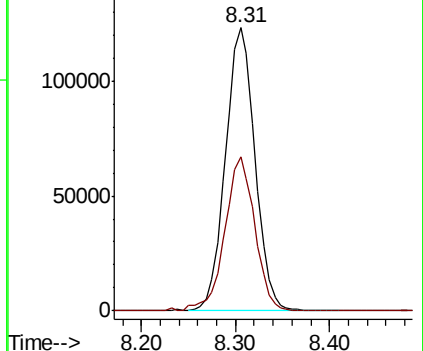
65 100

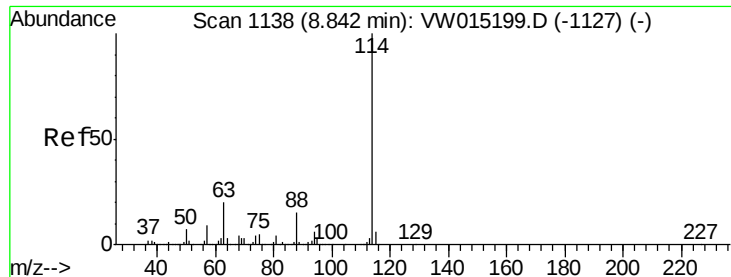
67 55.0 0.0 107.0



Abundance Ion 64.90 (64.60 to 65.60): VW

Ion 66.90 (66.60 to 67.60): VW

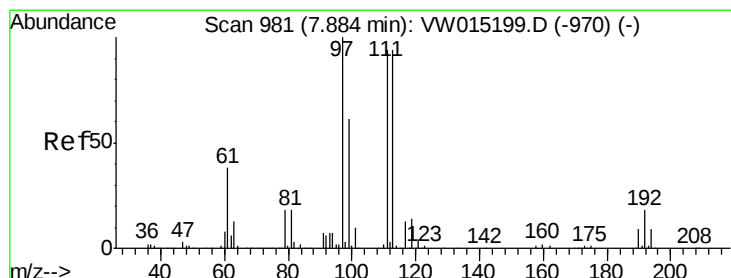
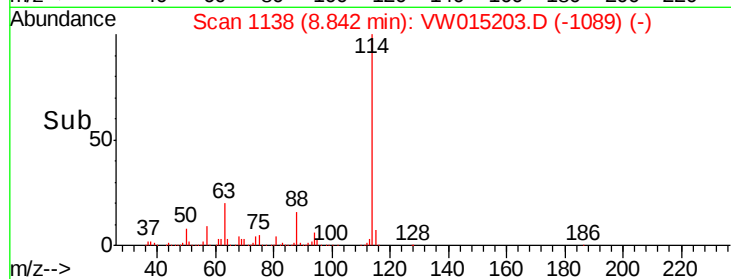
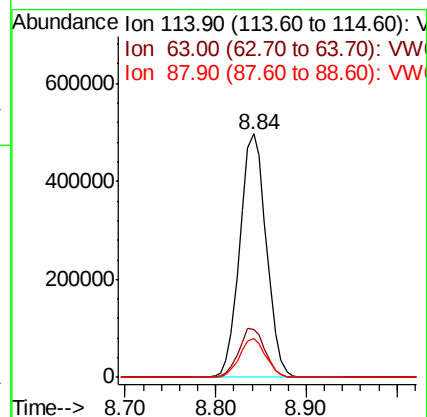
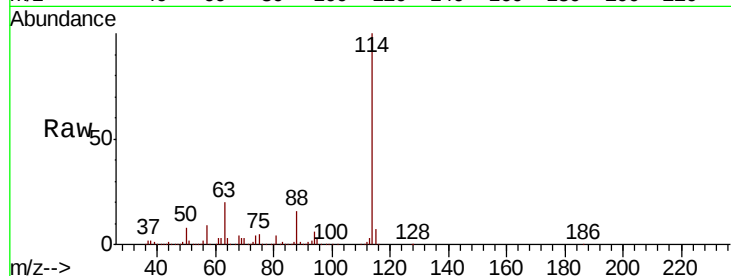




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. 0.00 min  
 Lab File: VW015203.D  
 Acq: 15 Apr 2020 15:46

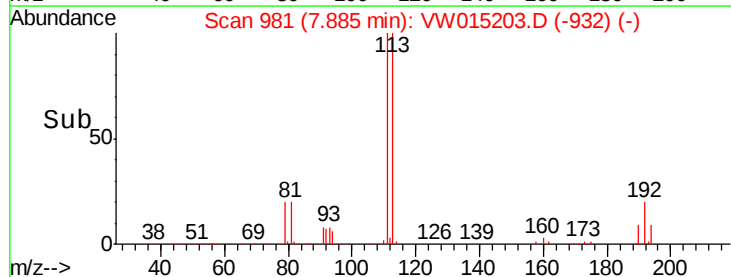
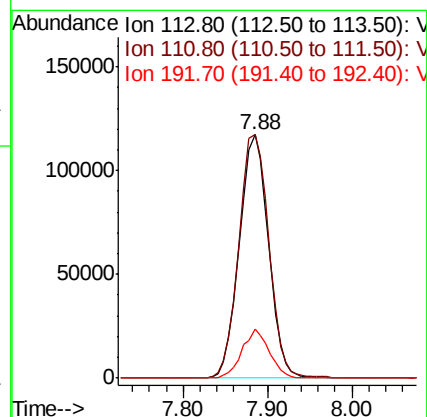
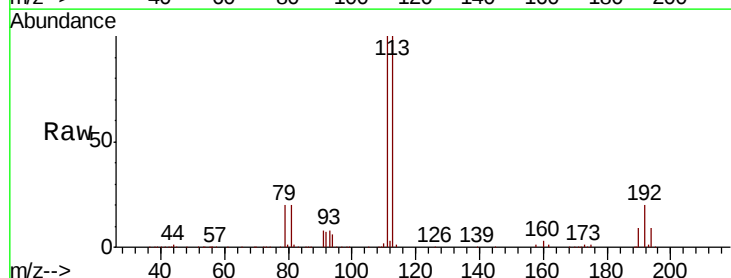
Instrument :  
 MSVOA\_W  
 ClientSampleId :

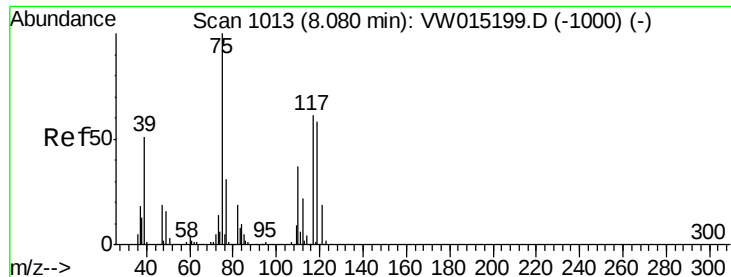
Tot Ion:114 Resp: 1006649  
 Ion Ratio Lower Upper  
 114 100  
 63 19.8 0.0 39.8  
 88 15.8 0.0 30.2



#35  
 Dibromofluoromethane  
 Concen: 49.108 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. 0.00 min  
 Lab File: VW015203.D  
 Acq: 15 Apr 2020 15:46

Tgt Ion:113 Resp: 273379  
 Ion Ratio Lower Upper  
 113 100  
 111 103.3 83.0 124.4  
 192 18.7 15.1 22.7





#36

1,1-Dichloropropene

Concen: 5.265 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW015203.D

Acq: 15 Apr 2020 15:46

Instrument :

MSVOA\_W

ClientSampled :

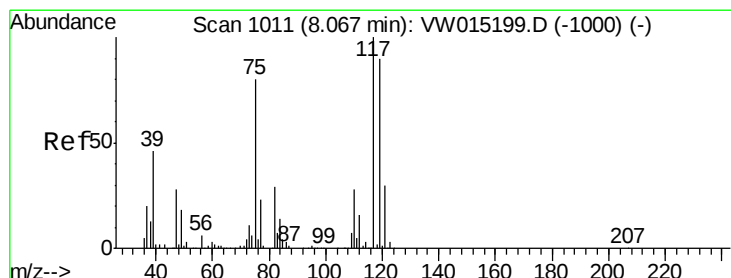
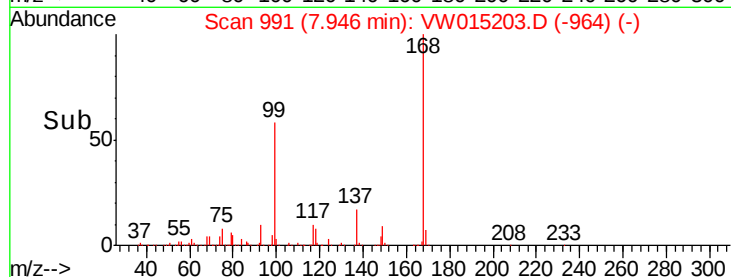
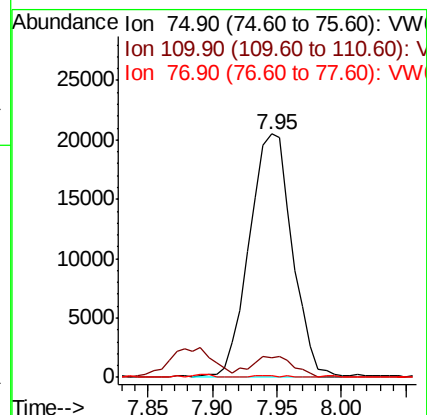
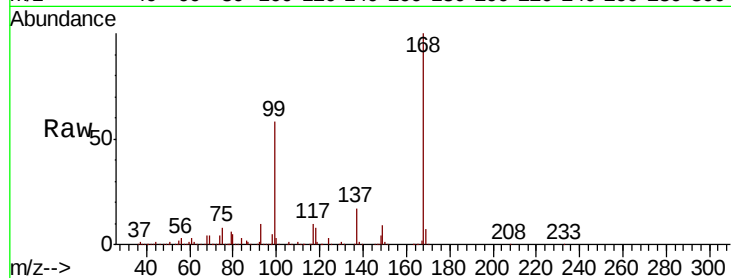
Tot Ion: 75 Resp: 47351

Ion Ratio Lower Upper

75 100

110 8.7 18.2 54.6#

77 0.4 24.5 36.7#



#38

Carbon Tetrachloride

Concen: 7.544 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW015203.D

Acq: 15 Apr 2020 15:46

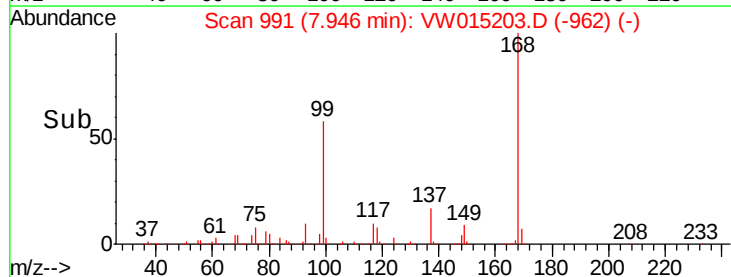
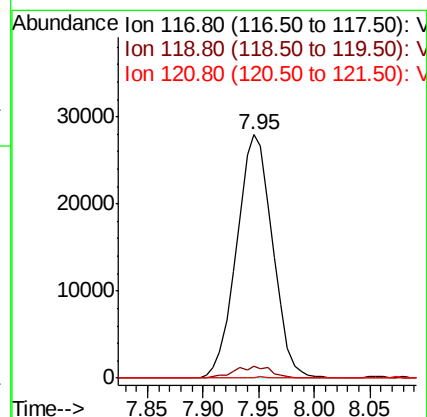
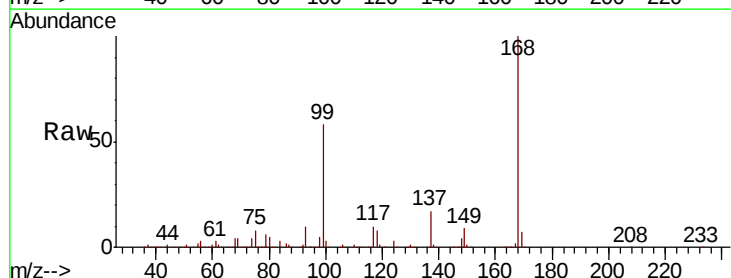
Tgt Ion: 117 Resp: 62374

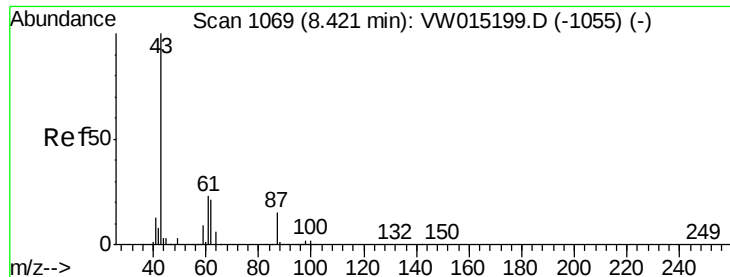
Ion Ratio Lower Upper

117 100

119 4.9 72.3 108.5#

121 0.3 23.7 35.5#





#43

Isopropyl Acetate

Concen: 1.697 ug/l

RT: 8.26 min Scan# 1042

Delta R.T. -0.16 min

Lab File: VW015203.D

Acq: 15 Apr 2020 15:46

Instrument :

MSVOA\_W

ClientSampleId :

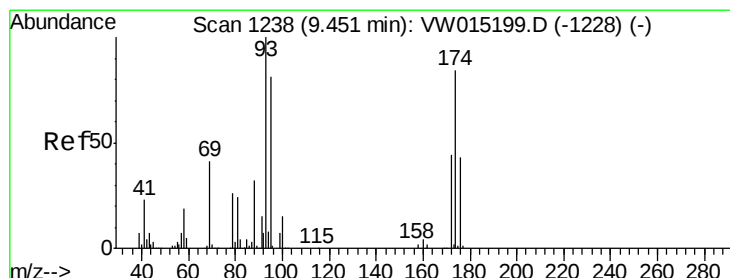
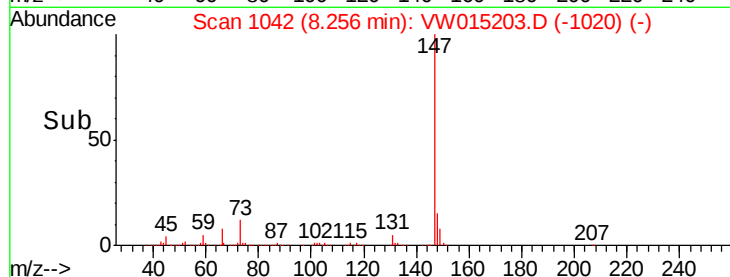
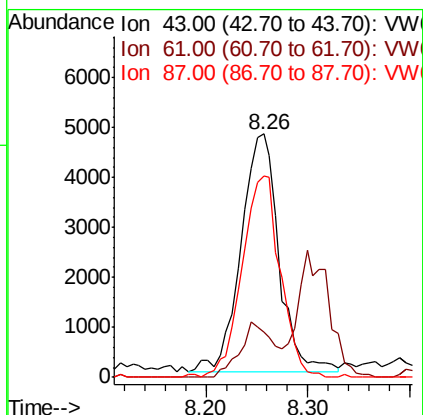
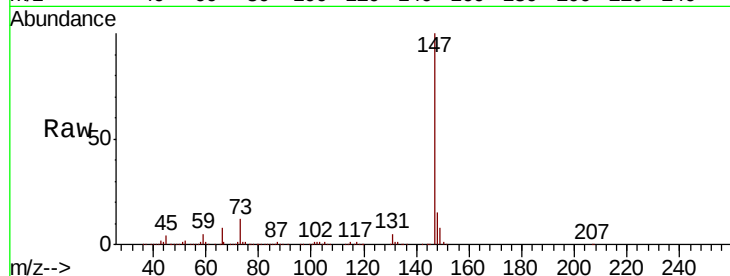
Tot Ion: 43 Resp: 12410

Ion Ratio Lower Upper

43 100

61 20.1 24.8 37.2#

87 84.8 11.4 17.2#



#49

1,4-Dioxane

Concen: 1.044 ug/l

RT: 9.38 min Scan# 1227

Delta R.T. -0.07 min

Lab File: VW015203.D

Acq: 15 Apr 2020 15:46

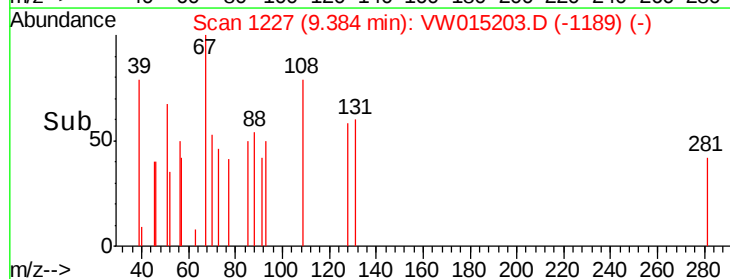
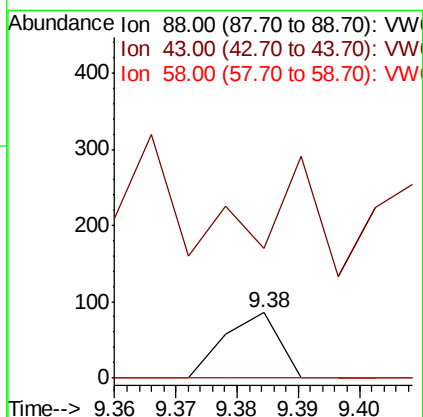
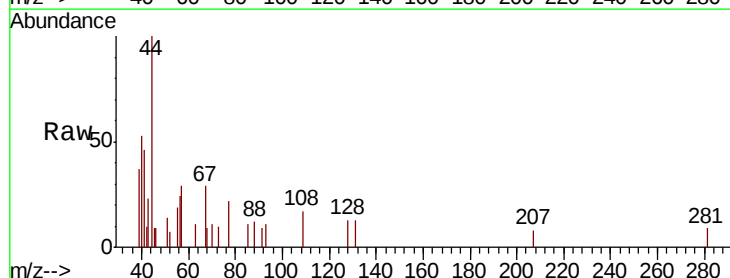
Tgt Ion: 88 Resp: 52

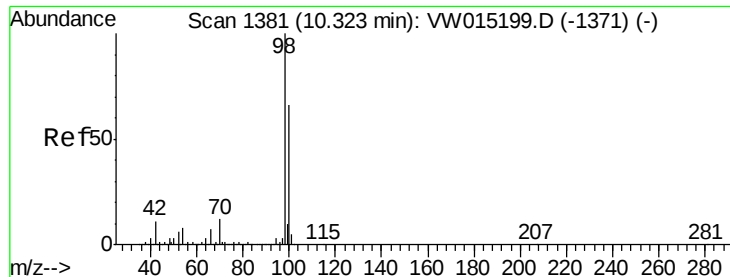
Ion Ratio Lower Upper

88 100

43 0.0 23.5 35.3#

58 0.0 55.4 83.2#





#50

Toluene-d8

Concen: 49.223 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW015203.D

Acq: 15 Apr 2020 15:46

Instrument :

MSVOA\_W

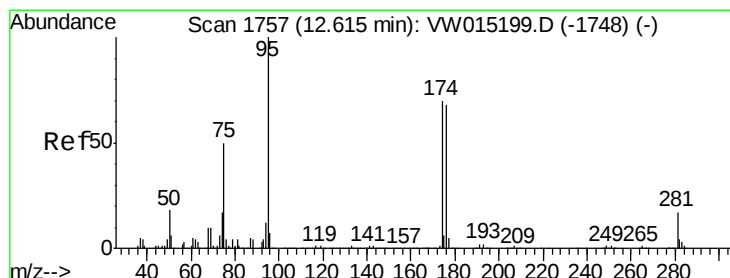
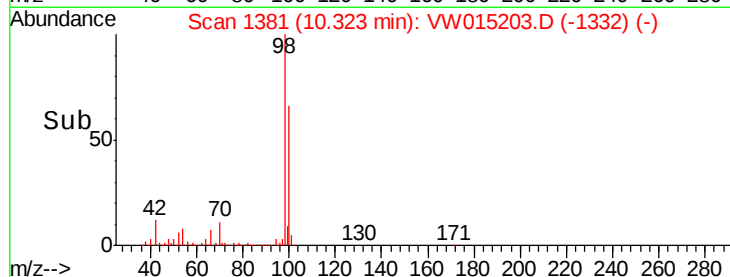
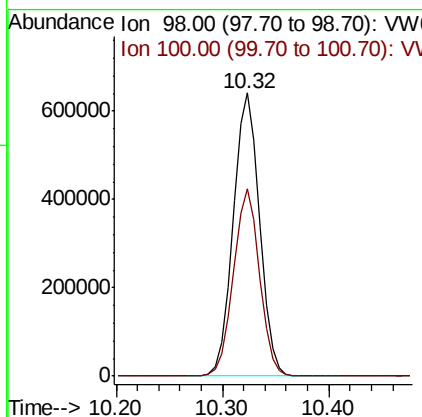
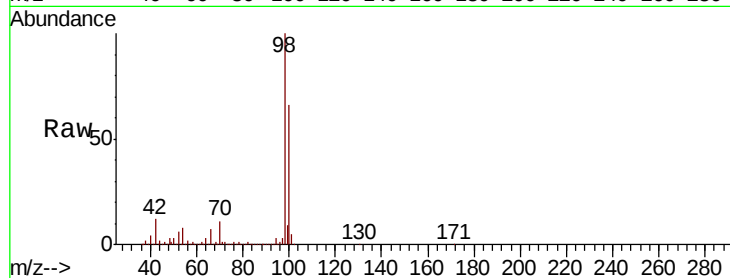
ClientSampleId :

Tot Ion: 98 Resp: 1113116

Ion Ratio Lower Upper

98 100

100 65.5 52.9 79.3



#62

4-Bromofluorobenzene

Concen: 46.916 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.00 min

Lab File: VW015203.D

Acq: 15 Apr 2020 15:46

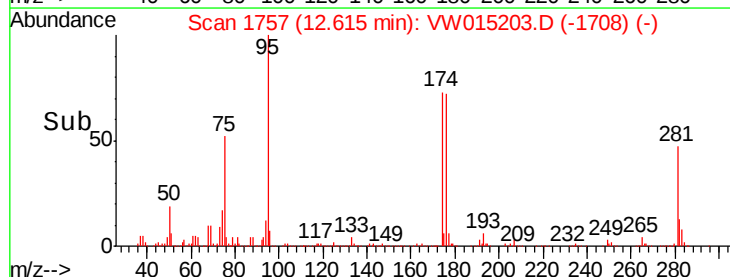
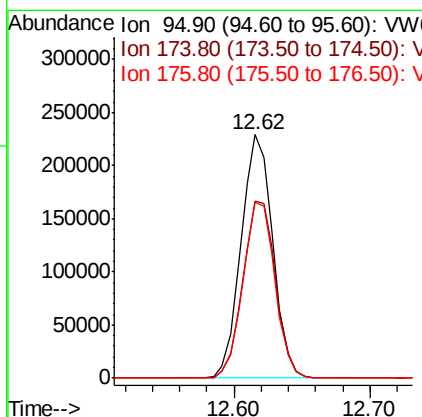
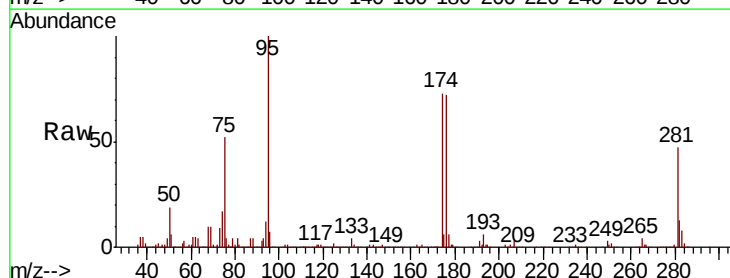
Tgt Ion: 95 Resp: 371591

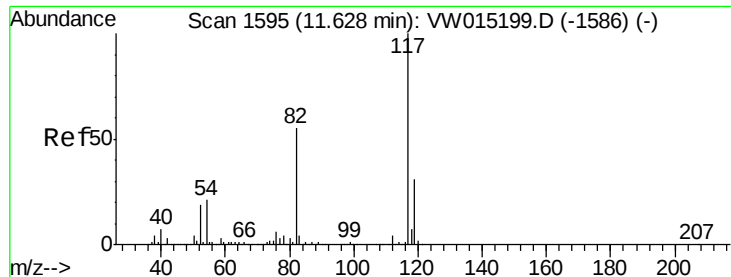
Ion Ratio Lower Upper

95 100

174 75.5 0.0 144.4

176 73.7 0.0 140.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1595

Delta R.T. 0.00 min

Lab File: VW015203.D

Acq: 15 Apr 2020 15:46

Instrument :

MSVOA\_W

ClientSampleId :

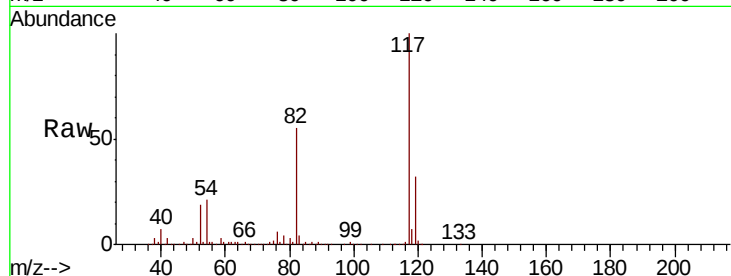
Tot Ion:117 Resp: 856896

Ion Ratio Lower Upper

117 100

82 55.3 44.1 66.1

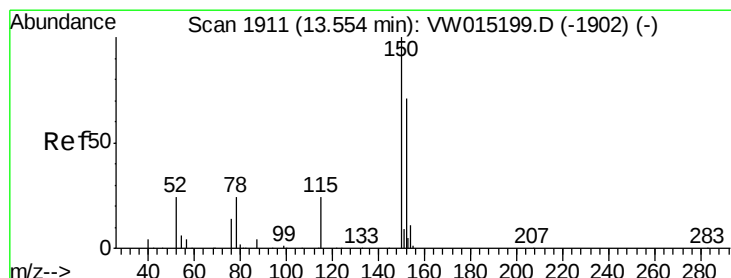
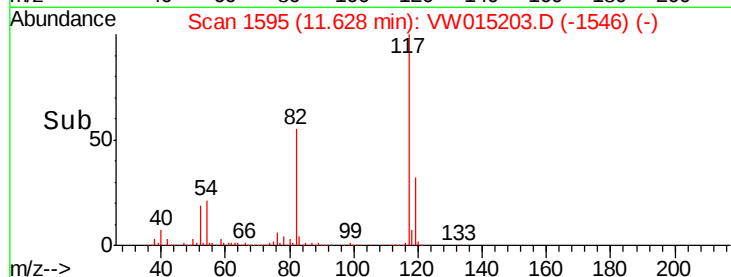
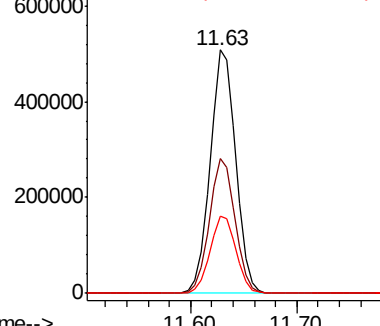
119 31.9 24.9 37.3



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.55 min Scan# 1911

Delta R.T. 0.00 min

Lab File: VW015203.D

Acq: 15 Apr 2020 15:46

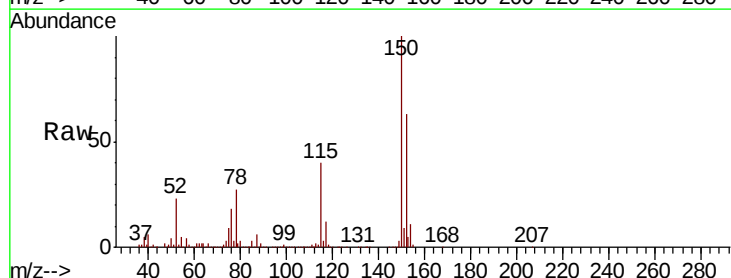
Tgt Ion:152 Resp: 377613

Ion Ratio Lower Upper

152 100

115 61.5 31.3 93.9

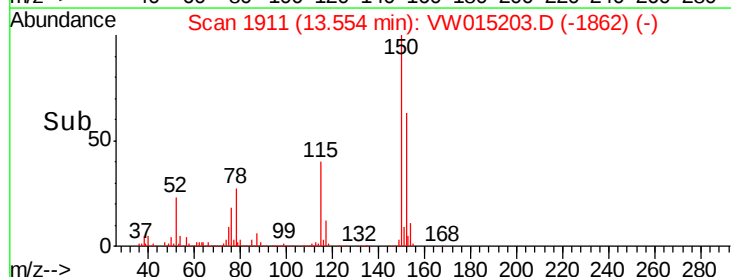
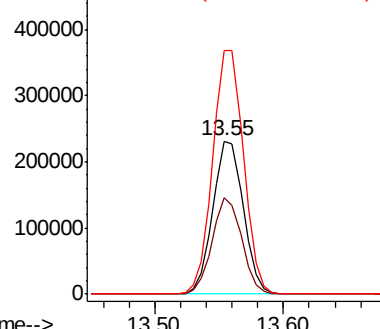
150 161.3 0.0 343.4

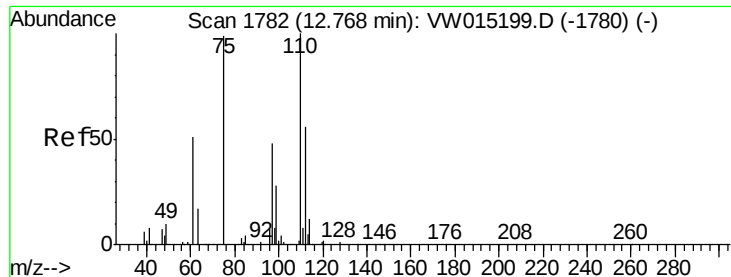


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 59.001 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW015203.D

Acq: 15 Apr 2020 15:46

Instrument :

MSVOA\_W

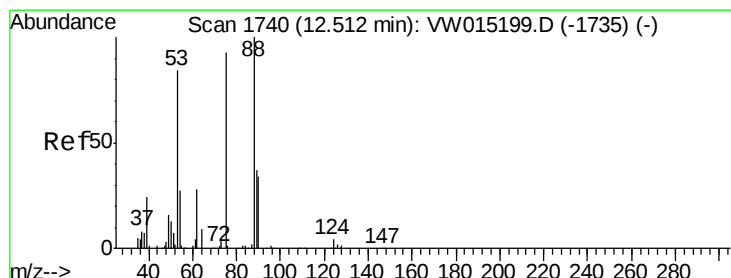
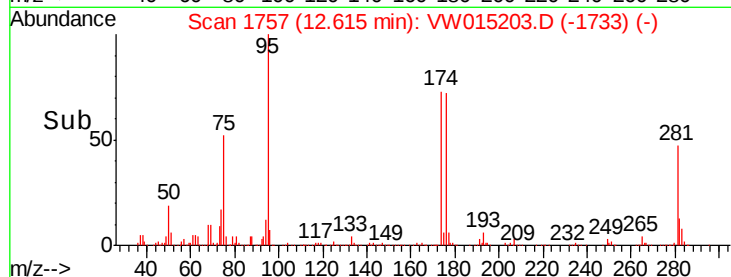
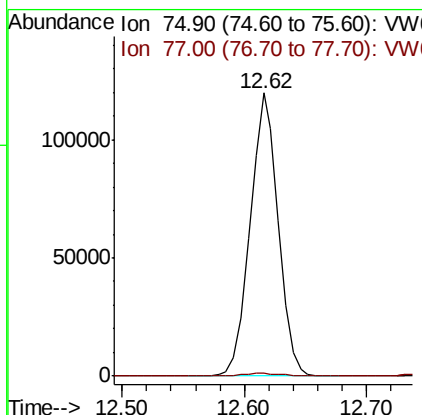
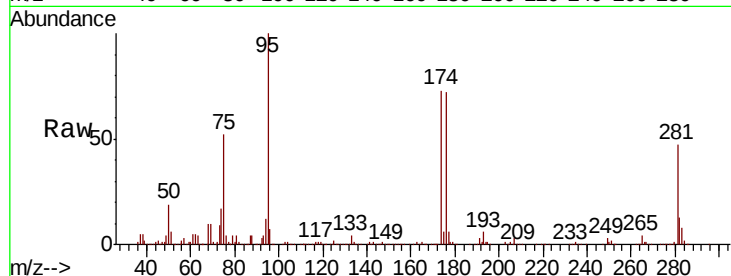
ClientSampled :

Tot Ion: 75 Resp: 190720

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 114.152 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW015203.D

Acq: 15 Apr 2020 15:46

Tgt Ion: 75 Resp: 190720

Ion Ratio Lower Upper

75 100

53 0.1 69.4 104.2#

89 0.5 34.8 52.2#

