

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW042320\  
 Data File : VW015329.D  
 Acq On : 23 Apr 2020 13:49  
 Operator : SY/VA  
 Sample : L2381-02  
 Misc : 8.23G/5ML/MSVOA W/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Apr 24 06:35:58 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W042020S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 21 06:39:58 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 206597   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 292370   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 262367   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.55 | 152  | 113102   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 83841    | 49.63 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.26%  |      |
| 35) Dibromofluoromethane  | 7.88   | 113 | 86069    | 53.15 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 106.30% |      |
| 50) Toluene-d8            | 10.32  | 98  | 344568   | 50.58 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.16% |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 116081   | 44.66 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 89.32%  |      |

## Target Compounds

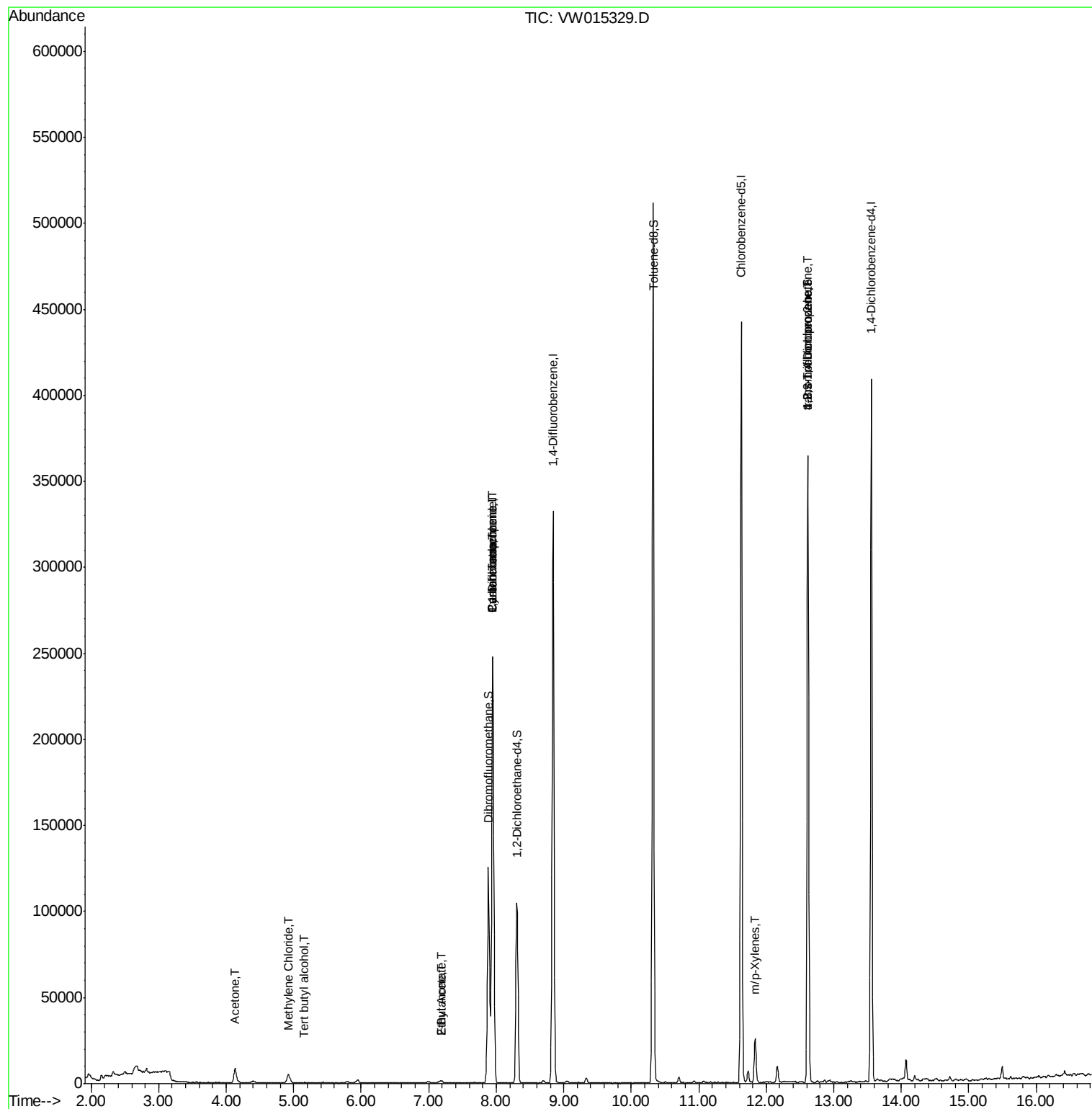
|                                |       |     |       |         | Qvalue |     |
|--------------------------------|-------|-----|-------|---------|--------|-----|
| 11) Tert butyl alcohol         | 5.16  | 59  | 217   | 1.576   | ug/l   | 97  |
| 16) Acetone                    | 4.14  | 43  | 14562 | 49.349  | ug/l   | 99  |
| 20) Methylene Chloride         | 4.93  | 84  | 4256  | 2.201   | ug/l # | 86  |
| 25) 2-Butanone                 | 7.18  | 43  | 2788  | 7.121   | ug/l   | 92  |
| 31) Cyclohexane                | 7.95  | 56  | 4060  | 1.300   | ug/l # | 1   |
| 36) 1,1-Dichloropropene        | 7.95  | 75  | 13310 | 5.044   | ug/l # | 50  |
| 37) Ethyl Acetate              | 7.18  | 43  | 2788  | 3.255   | ug/l # | 67  |
| 38) Carbon Tetrachloride       | 7.95  | 117 | 17996 | 6.241   | ug/l # | 18  |
| 68) m/p-Xylenes                | 11.83 | 106 | 8211  | 2.182   | ug/l   | 96  |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75  | 57555 | 65.780  | ug/l # | 100 |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75  | 57555 | 143.795 | ug/l # | 15  |

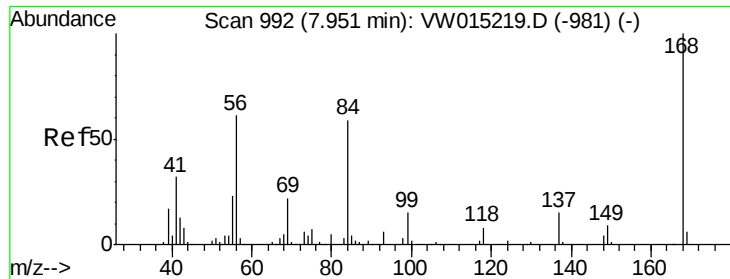
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW042320\  
Data File : VW015329.D  
Acq On : 23 Apr 2020 13:49  
Operator : SY/VA  
Sample : L2381-02  
Misc : 8.23G/5ML/MSVOA W/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :

Quant Time: Apr 24 06:35:58 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W042020S.M  
Quant Title : SW846 8260  
QLast Update : Tue Apr 21 06:39:58 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW015329.D

Acq: 23 Apr 2020 13:49

Instrument :

MSVOA\_W

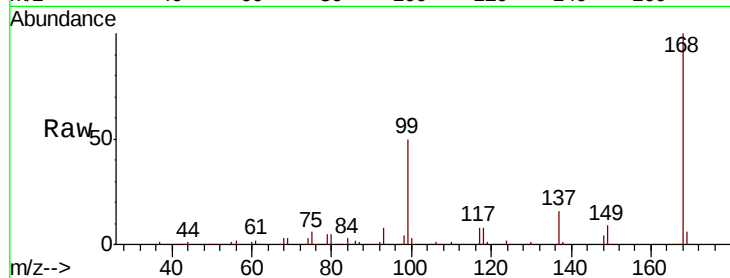
ClientSampled :

Tot Ion:168 Resp: 206597

Ion Ratio Lower Upper

168 100

99 49.6 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

100000

80000

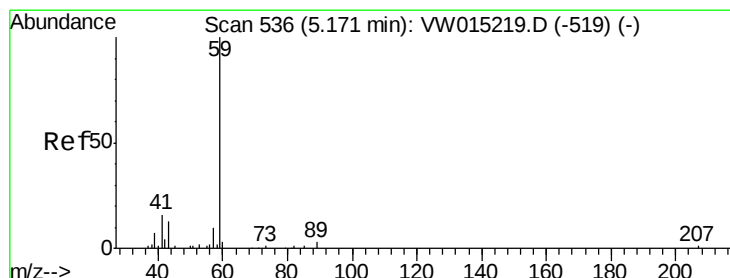
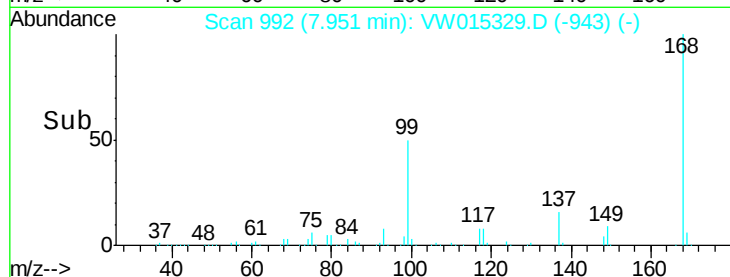
60000

40000

20000

0

Time--> 7.80 7.90 8.00 8.10



#11

Tert butyl alcohol

Concen: 1.576 ug/l

RT: 5.16 min Scan# 534

Delta R.T. -0.01 min

Lab File: VW015329.D

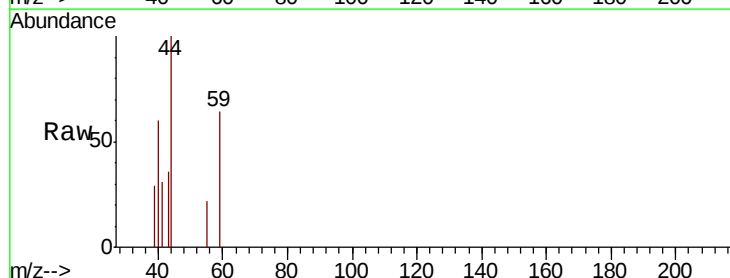
Acq: 23 Apr 2020 13:49

Tgt Ion: 59 Resp: 217

Ion Ratio Lower Upper

59 100

57 11.5 8.4 12.6



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.16

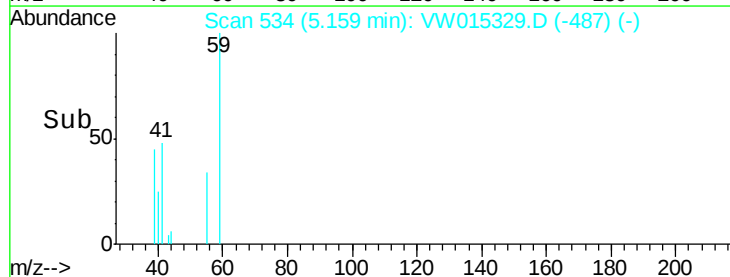
150

100

50

0

Time--> 5.10 5.12 5.14 5.16 5.18

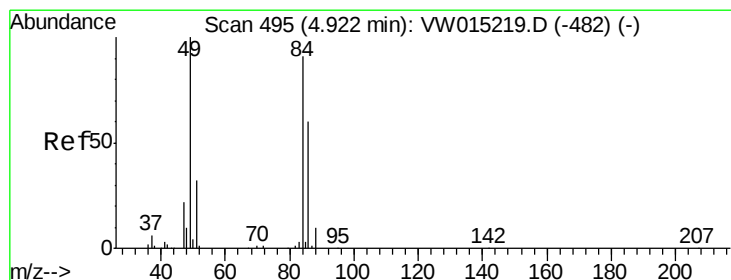
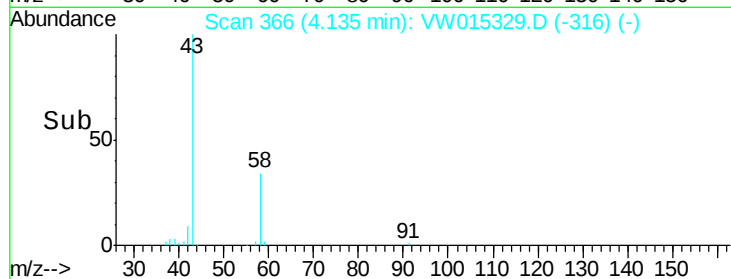
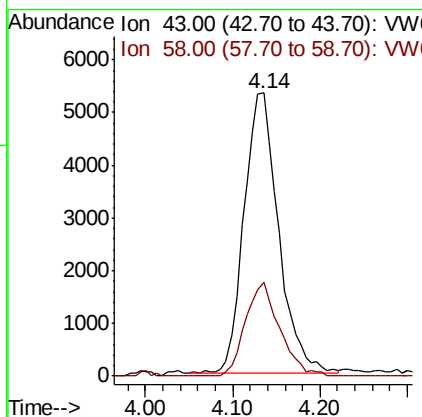
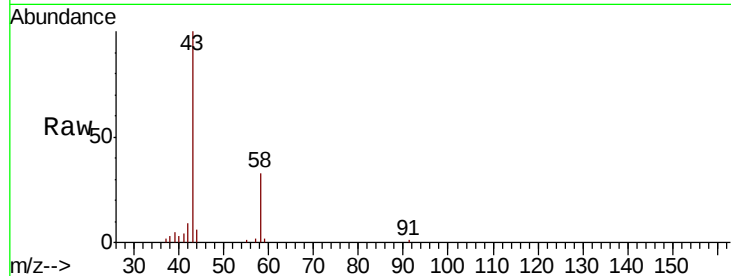




#16  
Acetone  
Concen: 49.349 ug/l  
RT: 4.14 min Scan# 366  
Delta R.T. 0.01 min  
Lab File: VW015329.D  
Acq: 23 Apr 2020 13:49

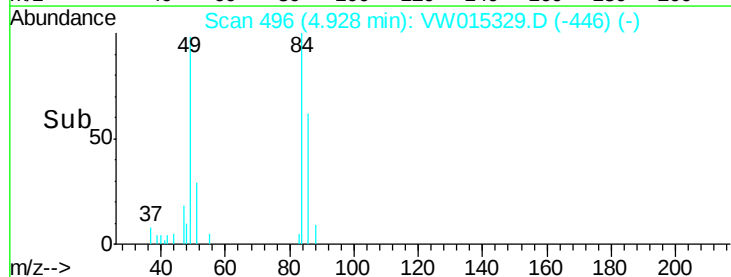
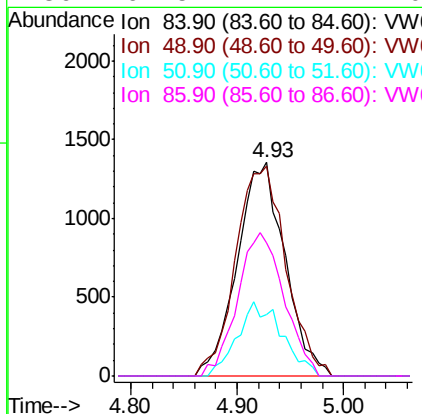
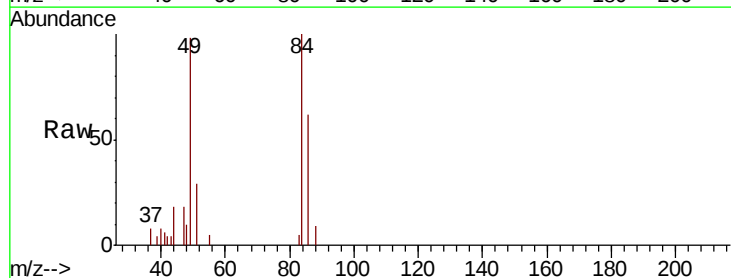
Instrument :  
MSVOA\_W  
ClientSampled :

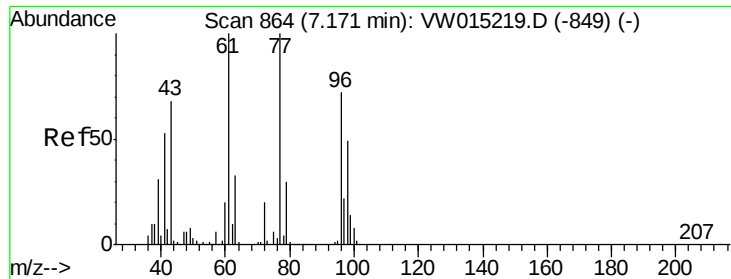
Tot Ion: 43 Resp: 14562  
Ion Ratio Lower Upper  
43 100  
58 33.4 27.0 40.4



#20  
Methylene Chloride  
Concen: 2.201 ug/l  
RT: 4.93 min Scan# 496  
Delta R.T. 0.01 min  
Lab File: VW015329.D  
Acq: 23 Apr 2020 13:49

Tgt Ion: 84 Resp: 4256  
Ion Ratio Lower Upper  
84 100  
49 98.5 95.4 143.0  
51 28.9 29.8 44.8#  
86 62.5 47.4 71.0





#25

2-Butanone

Concen: 7.121 ug/l

RT: 7.18 min Scan# 866

Delta R.T. 0.01 min

Lab File: VW015329.D

Acq: 23 Apr 2020 13:49

Instrument :

MSVOA\_W

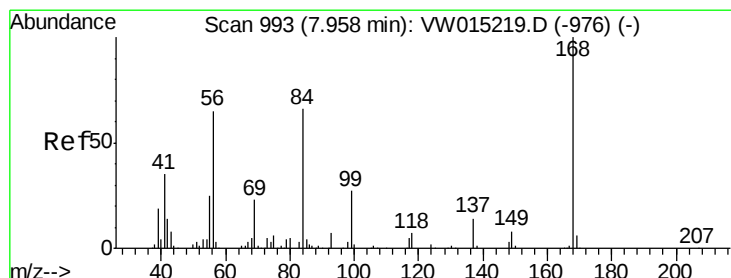
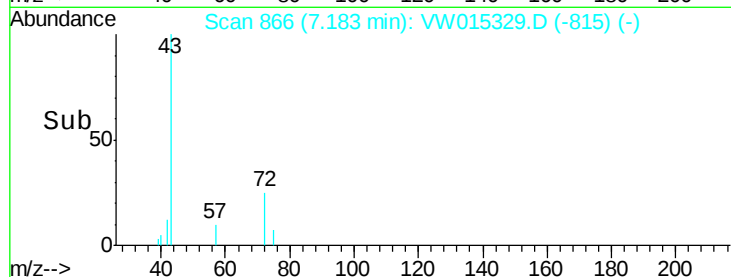
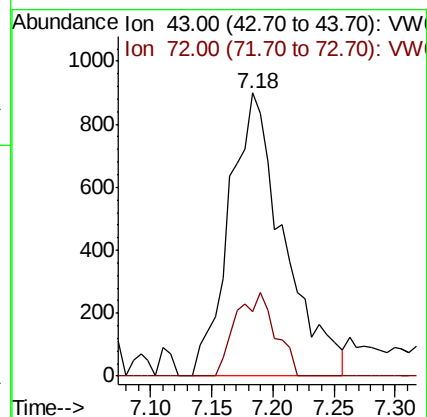
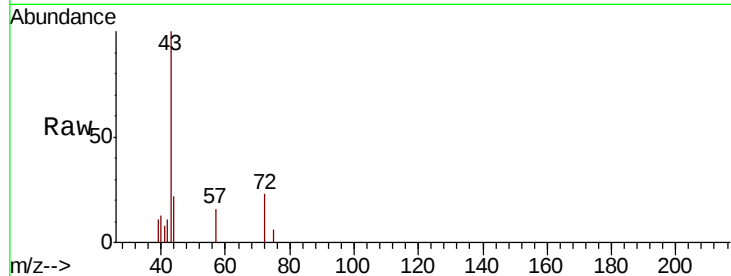
ClientSampleId :

Tot Ion: 43 Resp: 2788

Ion Ratio Lower Upper

43 100

72 22.7 21.6 32.4



#31

Cyclohexane

Concen: 1.300 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW015329.D

Acq: 23 Apr 2020 13:49

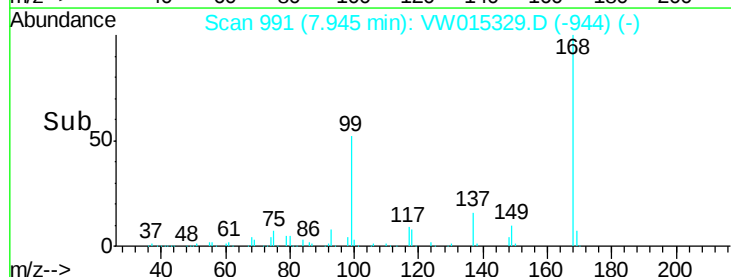
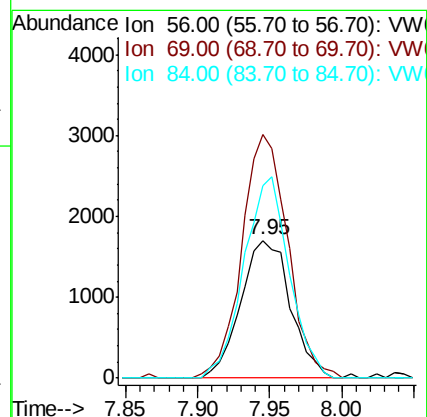
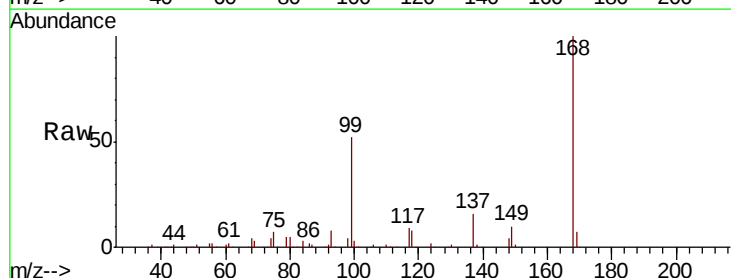
Tgt Ion: 56 Resp: 4060

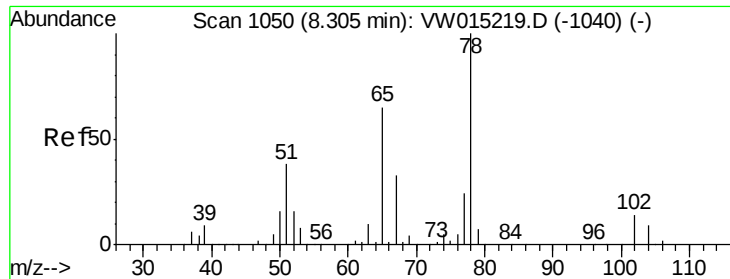
Ion Ratio Lower Upper

56 100

69 176.7 27.1 40.7#

84 139.2 71.9 107.9#

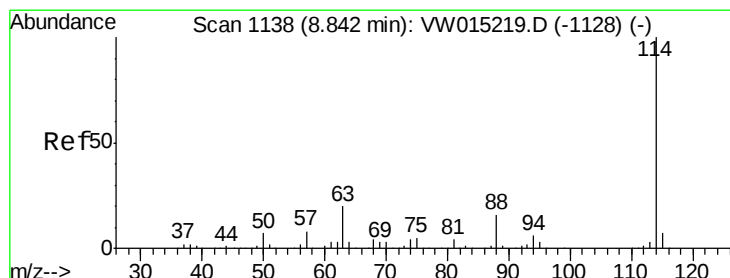
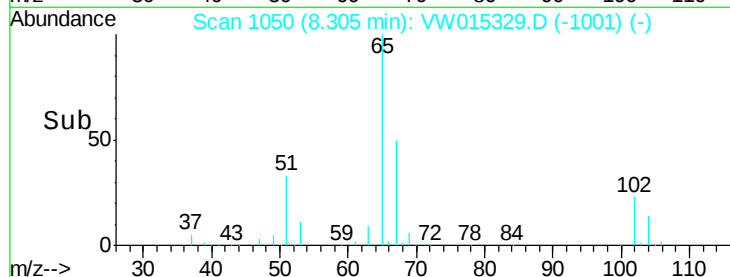
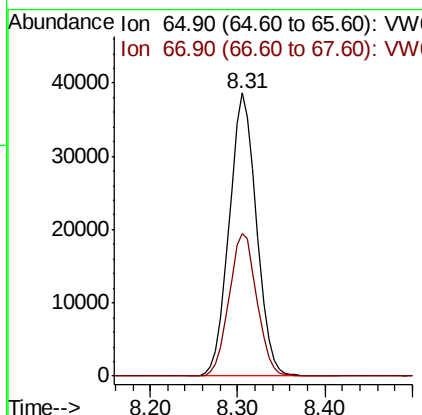
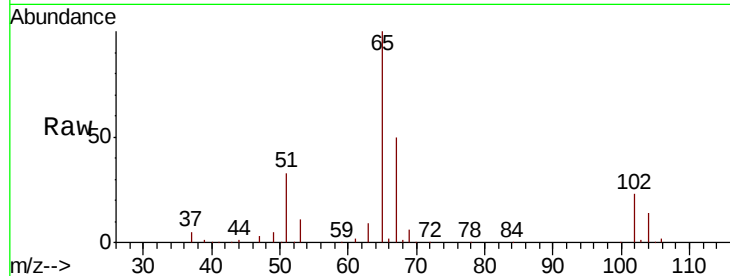




#33  
 1,2-Dichloroethane-d4  
 Concen: 49.626 ug/l  
 RT: 8.31 min Scan# 1050  
 Delta R.T. 0.00 min  
 Lab File: VW015329.D  
 Acq: 23 Apr 2020 13:49

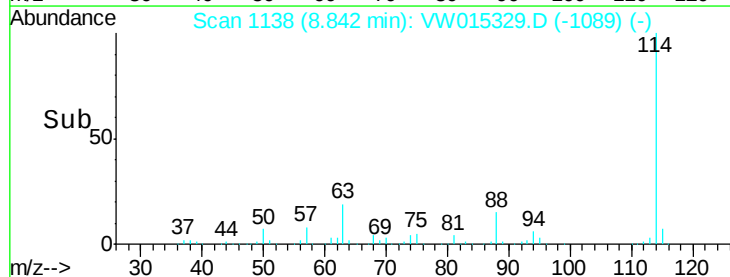
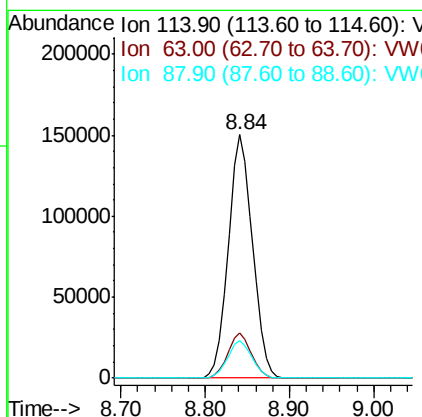
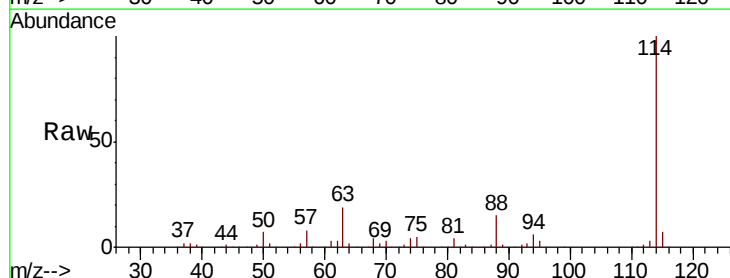
Instrument :  
 MSVOA\_W  
 ClientSampleId :

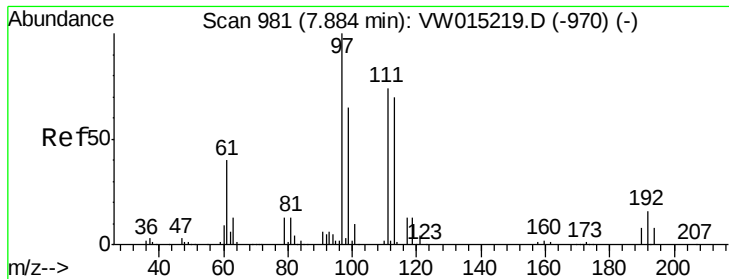
Tot Ion: 65 Resp: 83841  
 Ion Ratio Lower Upper  
 65 100  
 67 51.4 0.0 107.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. 0.00 min  
 Lab File: VW015329.D  
 Acq: 23 Apr 2020 13:49

Tgt Ion: 114 Resp: 292370  
 Ion Ratio Lower Upper  
 114 100  
 63 18.5 0.0 39.8  
 88 15.3 0.0 30.2





#35

Dibromofluoromethane

Concen: 53.146 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.00 min

Lab File: VW015329.D

Acq: 23 Apr 2020 13:49

Instrument :

MSVOA\_W

ClientSampleId :

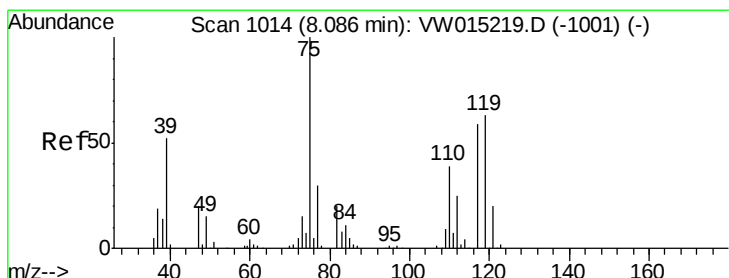
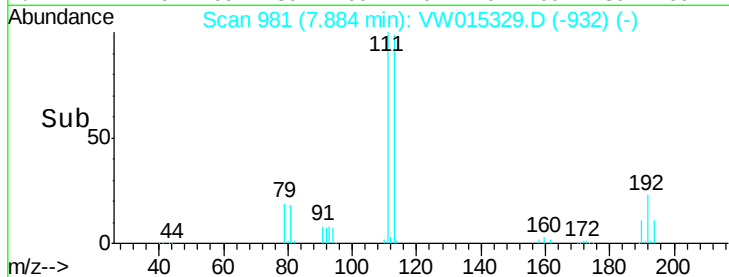
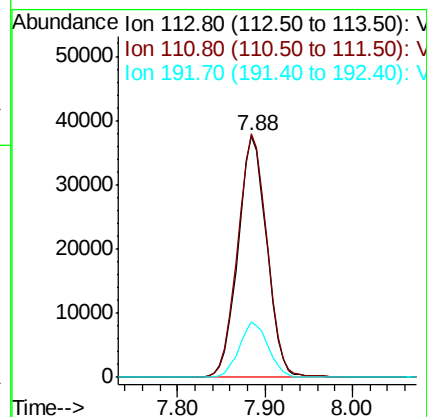
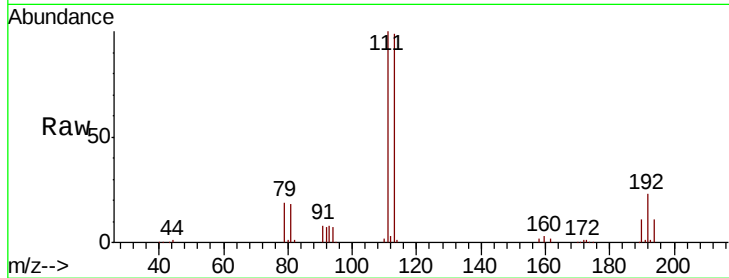
Tot Ion:113 Resp: 86069

Ion Ratio Lower Upper

113 100

111 102.6 83.0 124.4

192 23.0 15.1 22.7#



#36

1,1-Dichloropropene

Concen: 5.044 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.14 min

Lab File: VW015329.D

Acq: 23 Apr 2020 13:49

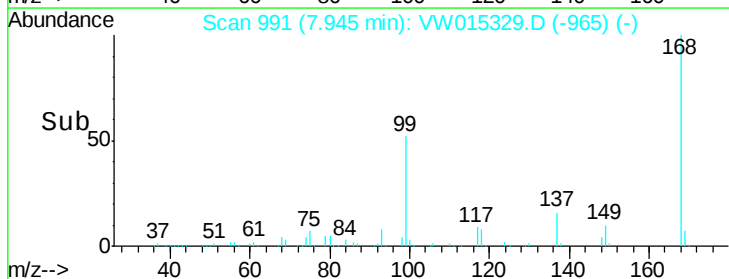
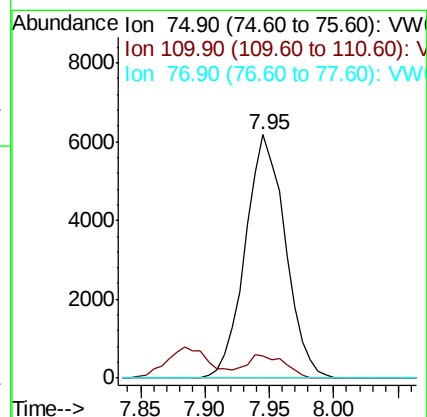
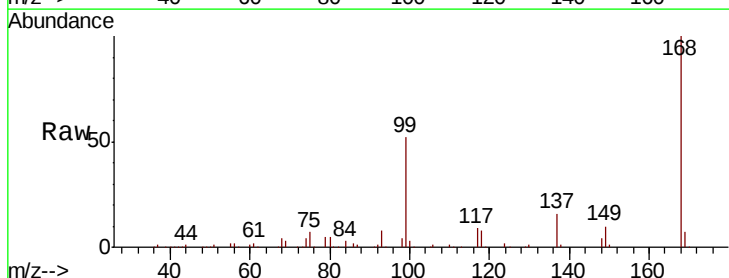
Tgt Ion: 75 Resp: 13310

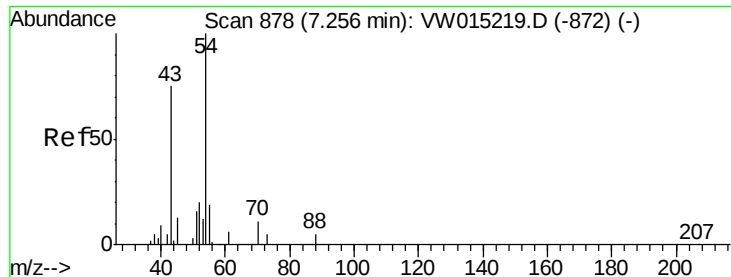
Ion Ratio Lower Upper

75 100

110 9.3 18.2 54.6#

77 0.0 24.5 36.7#

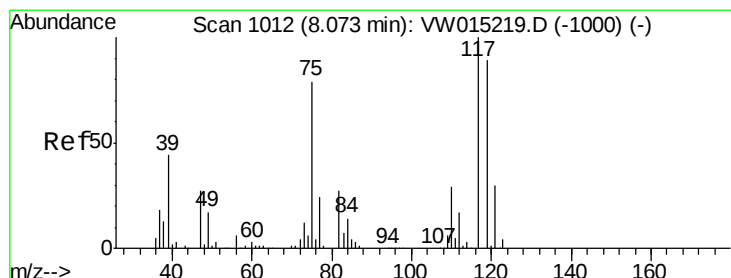
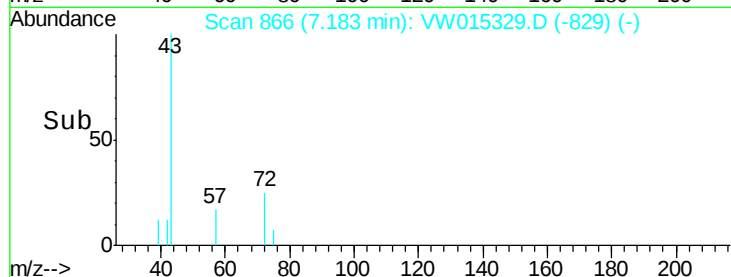
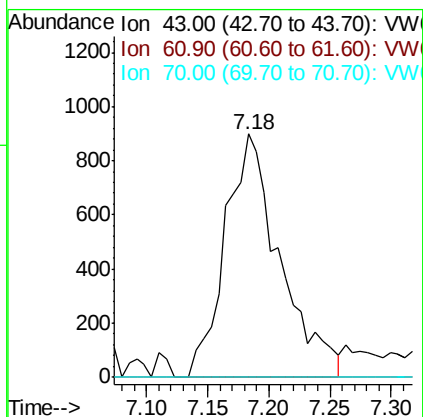
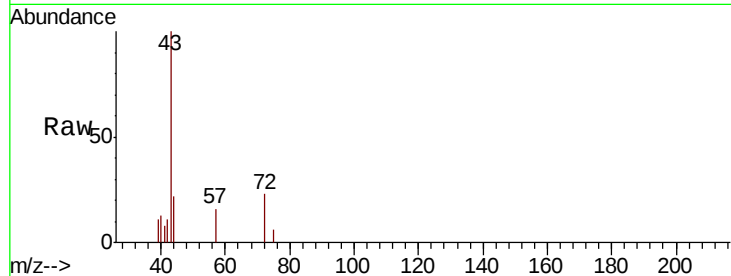




#37  
Ethyl Acetate  
Concen: 3.255 ug/l  
RT: 7.18 min Scan# 866  
Delta R.T. -0.07 min  
Lab File: VW015329.D  
Acq: 23 Apr 2020 13:49

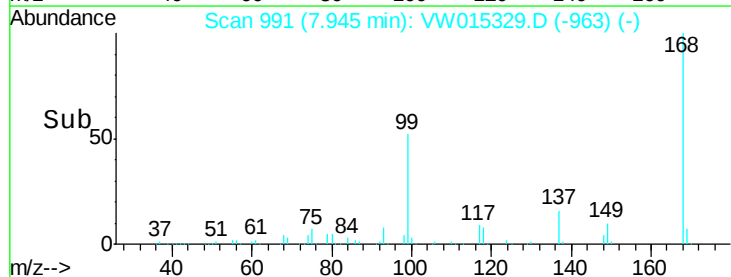
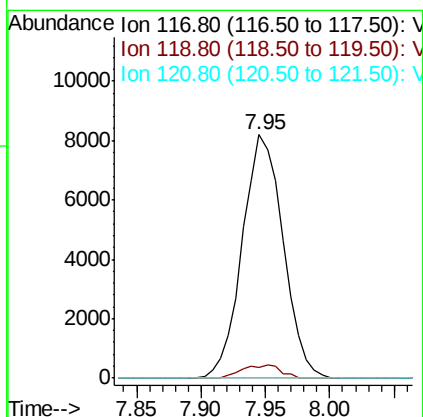
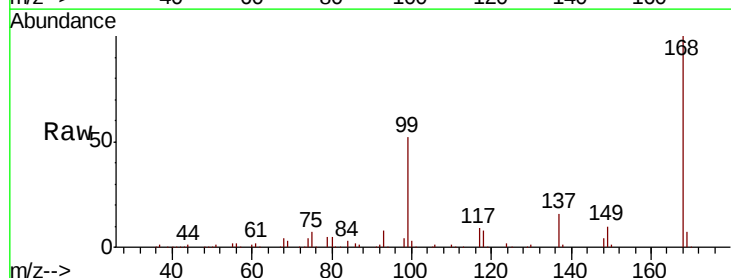
Instrument :  
MSVOA\_W  
ClientSampleId :

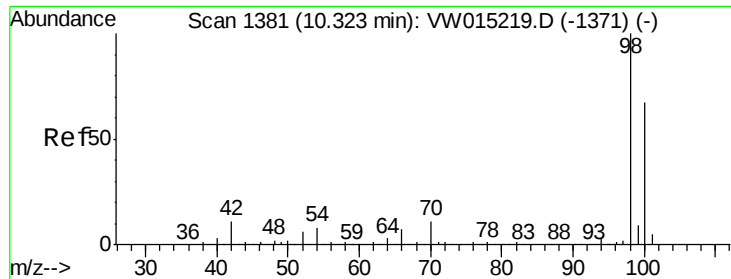
Tot Ion: 43 Resp: 2788  
Ion Ratio Lower Upper  
43 100  
61 0.0 11.9 17.9#  
70 0.0 8.8 13.2#



#38  
Carbon Tetrachloride  
Concen: 6.241 ug/l  
RT: 7.95 min Scan# 991  
Delta R.T. -0.13 min  
Lab File: VW015329.D  
Acq: 23 Apr 2020 13:49

Tgt Ion: 117 Resp: 17996  
Ion Ratio Lower Upper  
117 100  
119 4.5 72.3 108.5#  
121 0.0 23.7 35.5#





#50

Toluene-d8

Concen: 50.577 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW015329.D

Acq: 23 Apr 2020 13:49

Instrument :

MSVOA\_W

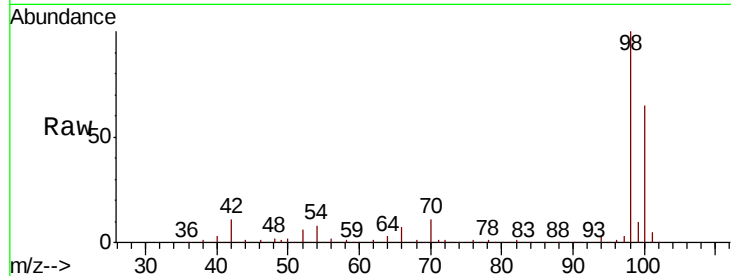
ClientSampled :

Tot Ion: 98 Resp: 344568

Ion Ratio Lower Upper

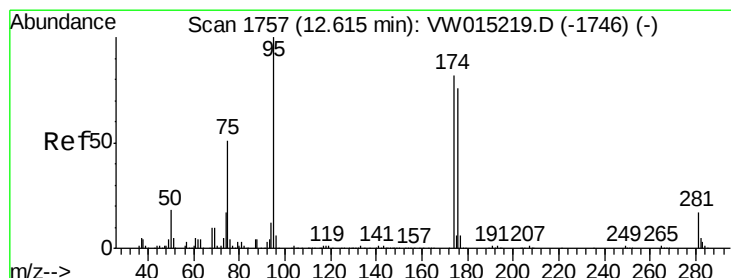
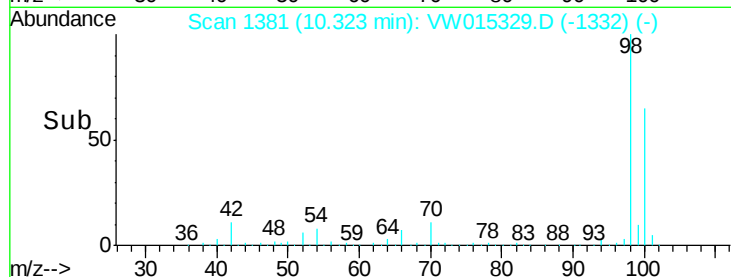
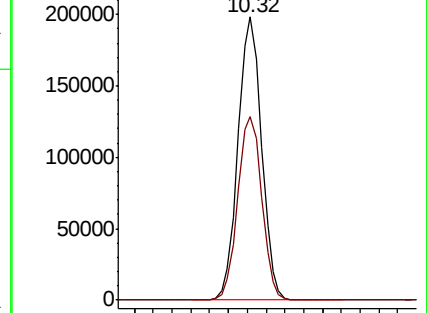
98 100

100 66.2 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW



#62

4-Bromofluorobenzene

Concen: 44.657 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.00 min

Lab File: VW015329.D

Acq: 23 Apr 2020 13:49

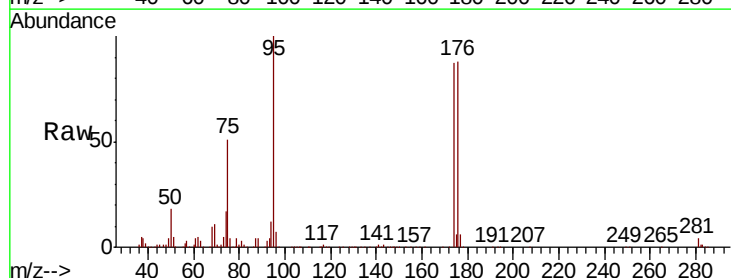
Tgt Ion: 95 Resp: 116081

Ion Ratio Lower Upper

95 100

174 87.7 0.0 144.4

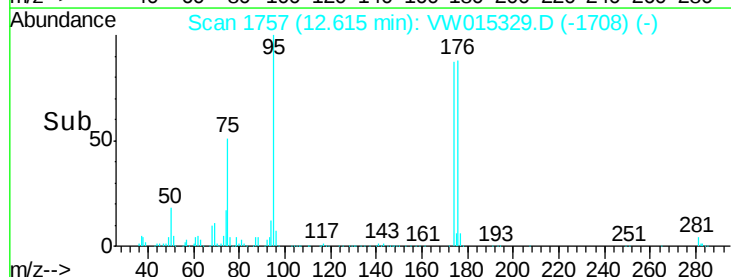
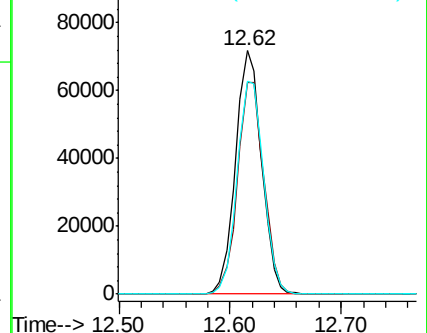
176 88.9 0.0 140.6

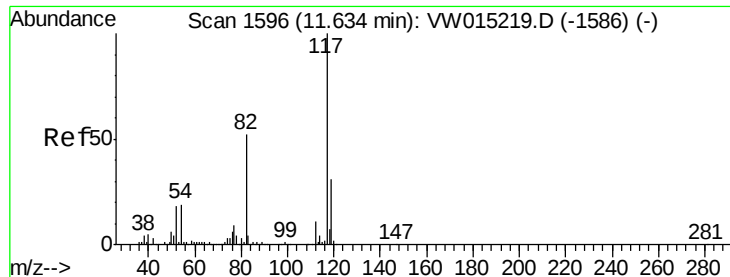


Abundance Ion 94.90 (94.60 to 95.60): VW

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# 1595

Delta R.T. -0.01 min

Lab File: VW015329.D

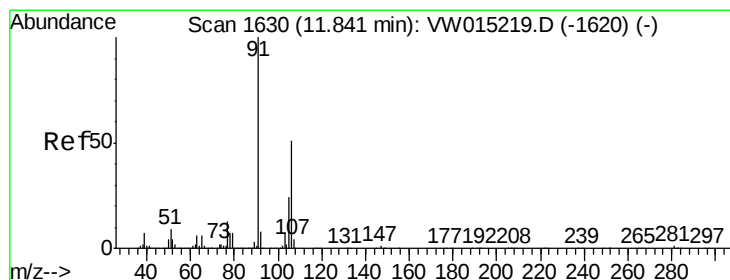
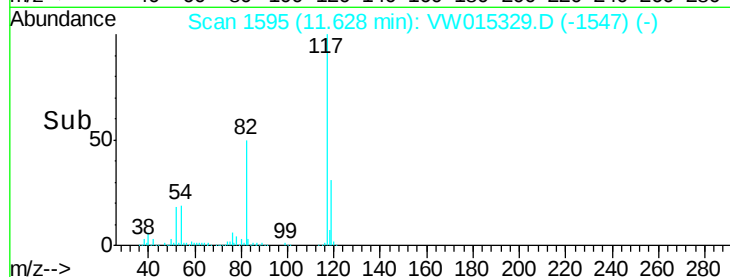
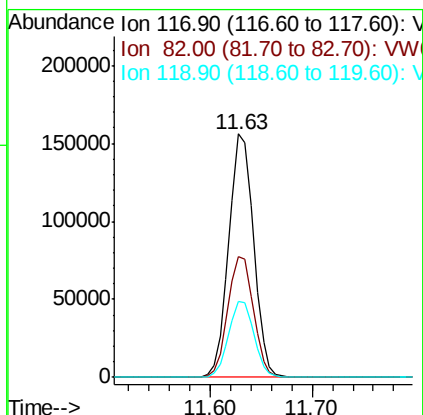
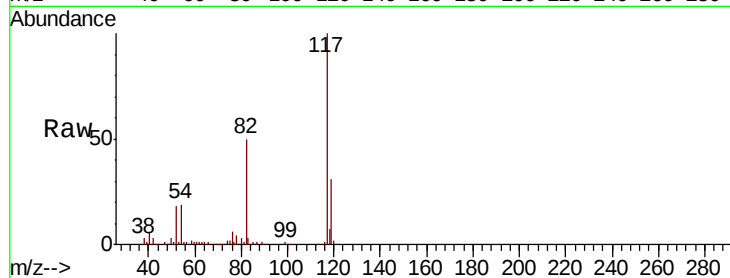
Acq: 23 Apr 2020 13:49

Instrument :

MSVOA\_W

ClientSampleId :

|             |       |        |
|-------------|-------|--------|
| Tot Ion:117 | Resp: | 262367 |
| Ion Ratio   | Lower | Upper  |
| 117 100     |       |        |
| 82 49.8     | 44.1  | 66.1   |
| 119 31.0    | 24.9  | 37.3   |



#68

m/p-Xylenes

Concen: 2.182 ug/l

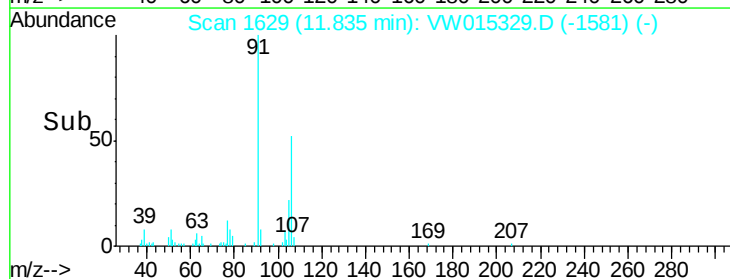
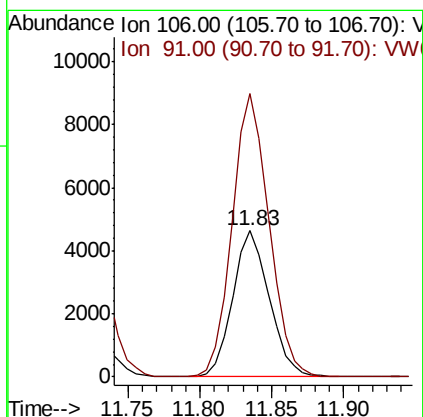
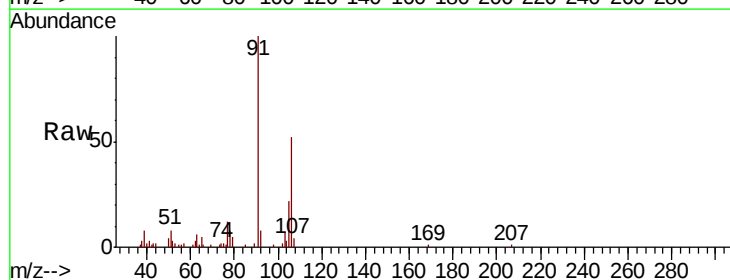
RT: 11.83 min Scan# 1629

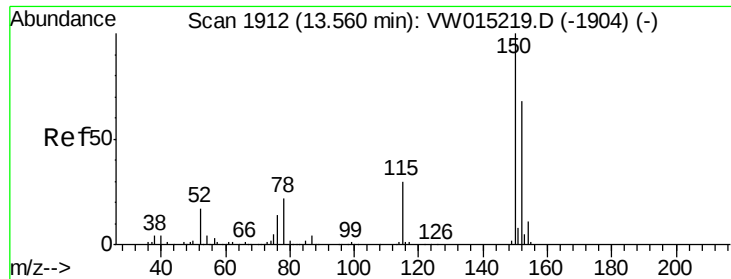
Delta R.T. -0.01 min

Lab File: VW015329.D

Acq: 23 Apr 2020 13:49

|             |       |       |
|-------------|-------|-------|
| Tgt Ion:106 | Resp: | 8211  |
| Ion Ratio   | Lower | Upper |
| 106 100     |       |       |
| 91 194.4    | 160.0 | 240.0 |



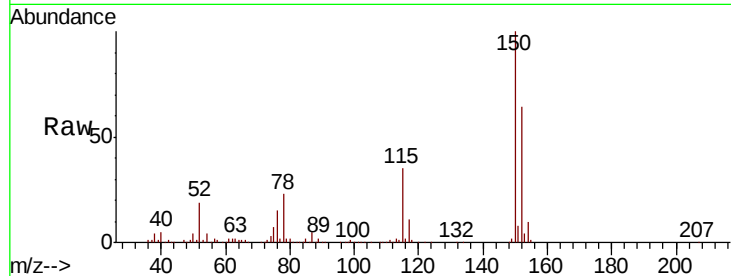


#72

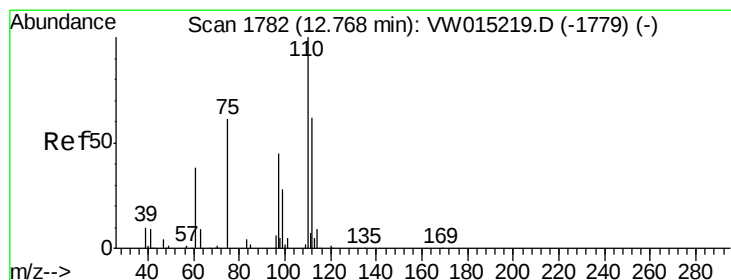
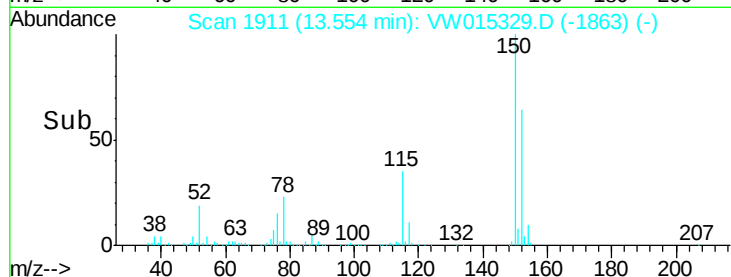
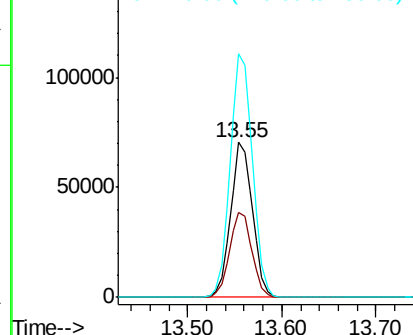
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.55 min Scan# 1911  
Delta R.T. -0.01 min  
Lab File: VW015329.D  
Acq: 23 Apr 2020 13:49

Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion:152 Resp: 113102  
Ion Ratio Lower Upper  
152 100  
115 55.8 31.3 93.9  
150 160.4 0.0 343.4



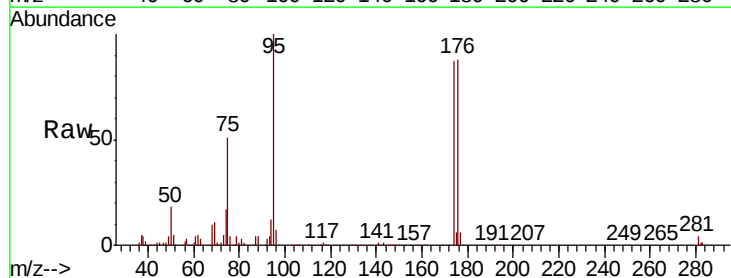
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V



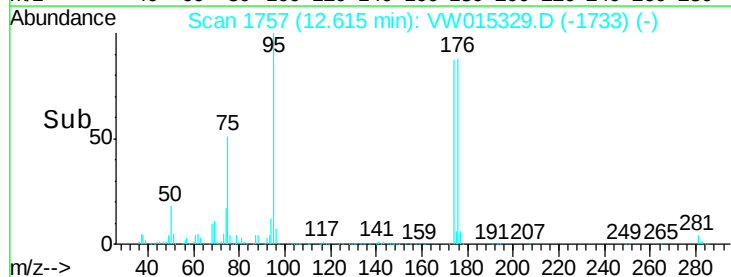
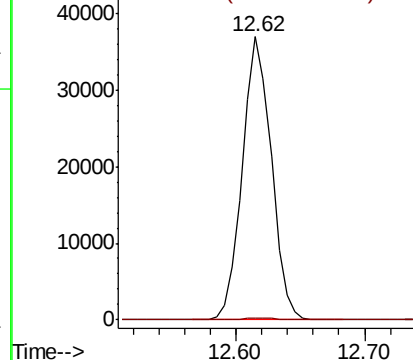
#76

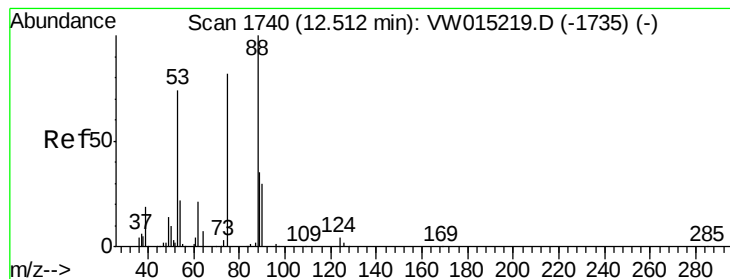
1,2,3-Trichloropropane  
Concen: 65.780 ug/l  
RT: 12.62 min Scan# 1757  
Delta R.T. -0.15 min  
Lab File: VW015329.D  
Acq: 23 Apr 2020 13:49

Tgt Ion: 75 Resp: 57555  
Ion Ratio Lower Upper  
75 100  
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW  
Ion 77.00 (76.70 to 77.70): VW





#81

trans-1,4-Dichloro-2-butene

Concen: 143.795 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW015329.D

Acq: 23 Apr 2020 13:49

Instrument :

MSVOA\_W

ClientSampleId :

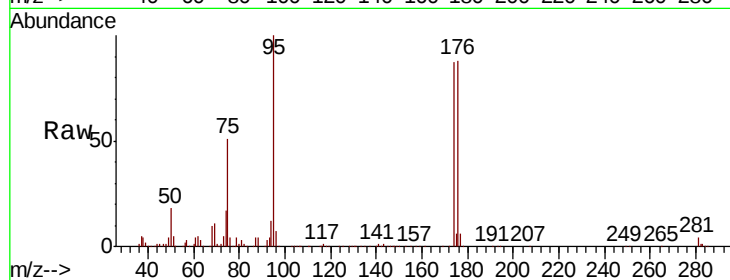
Tot Ion: 75 Resp: 57555

Ion Ratio Lower Upper

75 100

53 0.0 69.4 104.2#

89 0.0 34.8 52.2#



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

