

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW100919\  
 Data File : VW013513.D  
 Acq On : 09 Oct 2019 19:10  
 Operator : SY/VA  
 Sample : K5300-02  
 Misc : 4.14G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 TP-18A-S2

Quant Time: Oct 10 02:42:22 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W100819S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 09 05:54:09 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 321264   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 476932   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 403010   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.55 | 152  | 180555   | 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   | 124526   | 50.17 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 100.34% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 131492   | 49.36 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 98.72%  |          |
| 50) Toluene-d8              | 10.32 | 98   | 554937   | 49.57 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 99.14%  |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 178526   | 47.47 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 94.94%  |          |

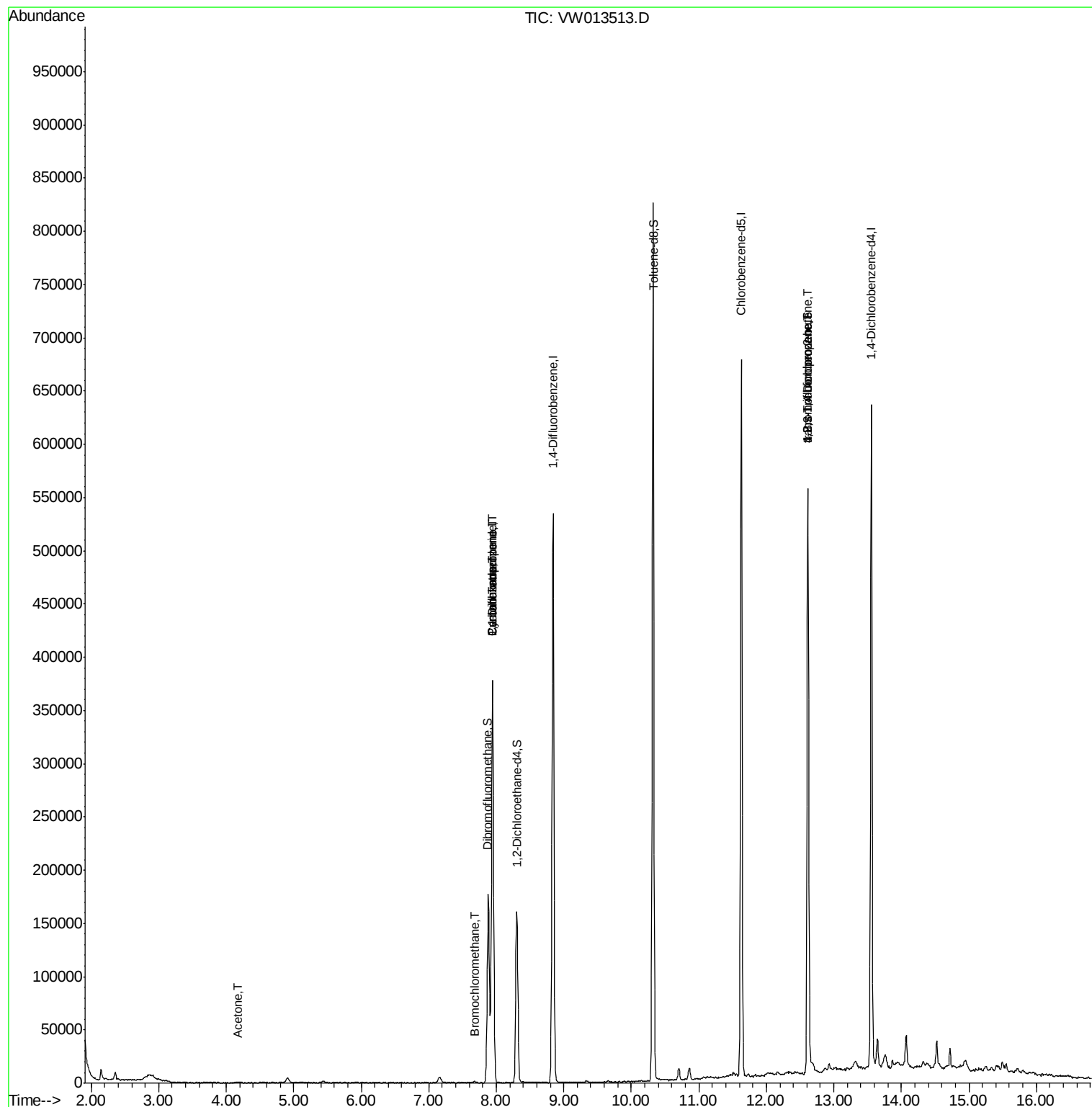
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 5.21  | 59   | 162      | Below Cal | #      | 72     |
| 16) Acetone                    | 4.17  | 43   | 907      | 1.570     | ug/l # | 42     |
| 20) Methylene Chloride         | 4.90  | 84   | 3634     | Below Cal | #      | 87     |
| 28) Bromochloromethane         | 7.68  | 49   | 29       | 2.375     | ug/l # | 98     |
| 31) Cyclohexane                | 7.95  | 56   | 6411     | 1.234     | ug/l # | 8      |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 19880    | 4.608     | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 27511    | 7.193     | ug/l # | 16     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 82330    | 54.749    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 82330    | 111.916   | ug/l # | 14     |

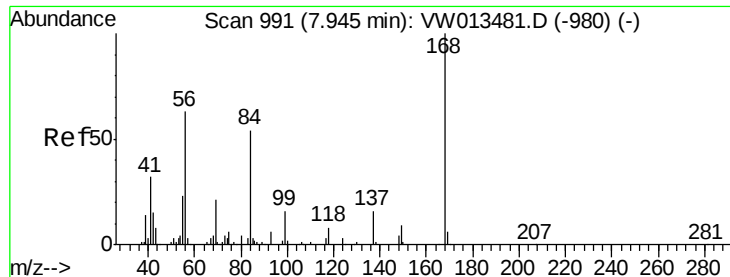
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Oct 09 05:54:09 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: VW013513.D

Acq: 09 Oct 2019 19:10

Instrument :

MSVOA\_W

ClientSampleId :

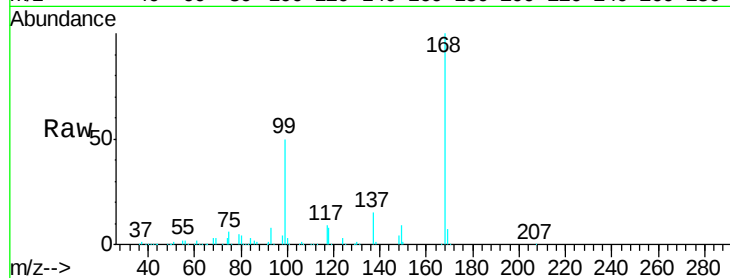
TP-18A-S2

Tgt Ion:168 Resp: 321264

Ion Ratio Lower Upper

168 100

99 49.9 38.3 57.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

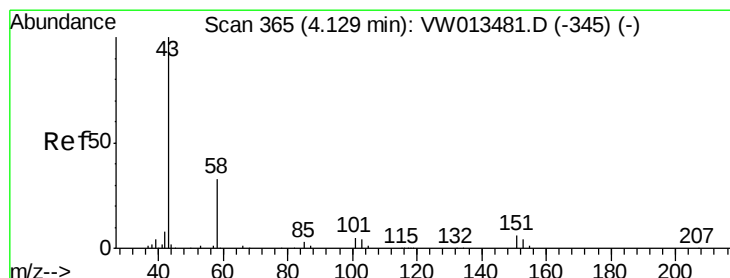
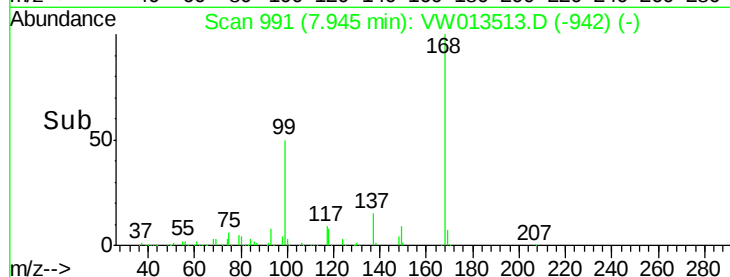
150000

100000

50000

0

Time-->



#16

Acetone

Concen: 1.570 ug/l

RT: 4.17 min Scan# 371

Delta R.T. 0.04 min

Lab File: VW013513.D

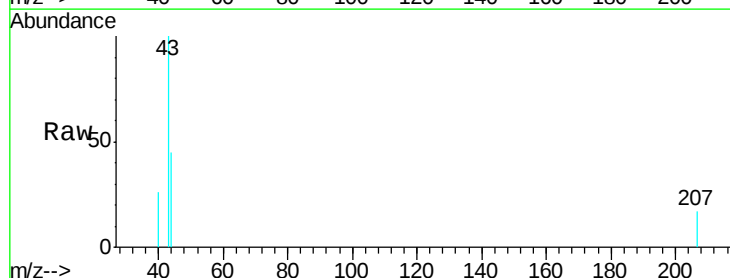
Acq: 09 Oct 2019 19:10

Tgt Ion: 43 Resp: 907

Ion Ratio Lower Upper

43 100

58 0.0 26.1 39.1#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.17

500

400

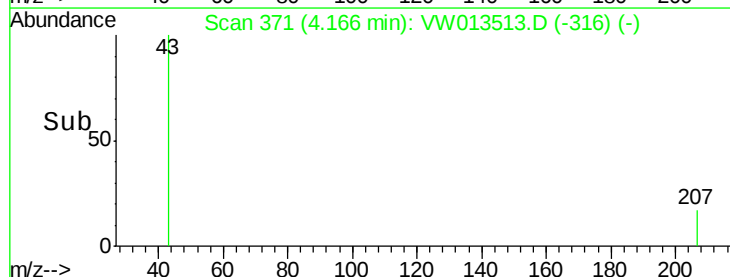
300

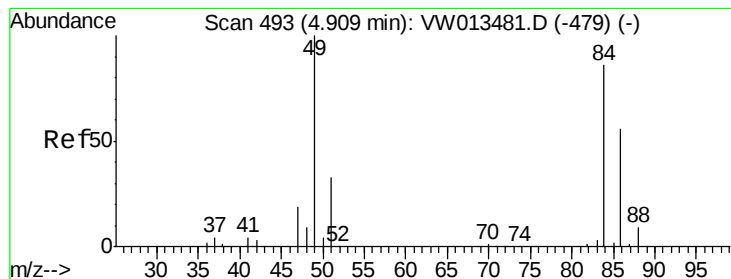
200

100

0

Time-->





#20

Methylene Chloride

Concen: Below Cal

RT: 4.90 min Scan# 492

Delta R.T. -0.01 min

Lab File: VW013513.D

Acq: 09 Oct 2019 19:10

Instrument :

MSVOA\_W

ClientSampleId :

TP-18A-S2

Tgt Ion: 84 Resp: 3634

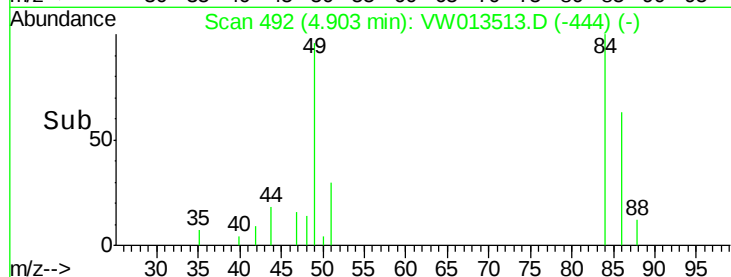
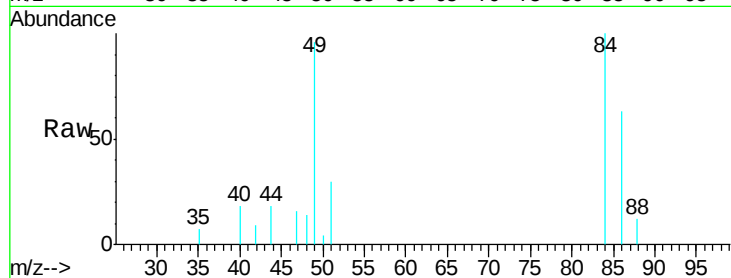
Ion Ratio Lower Upper

84 100

49 96.5 93.4 140.0

51 30.4 30.6 46.0#

86 62.5 52.3 78.5

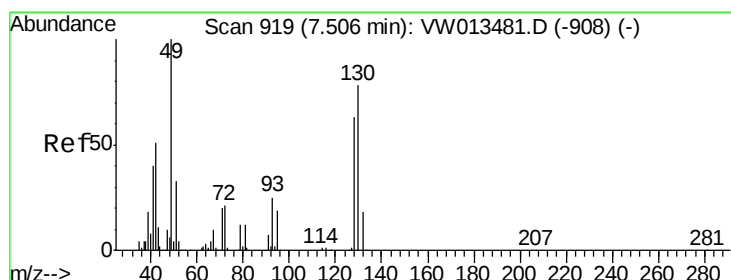
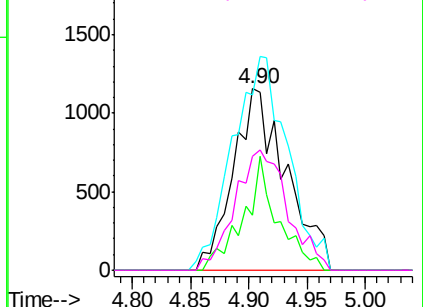


Abundance Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW



#28

Bromochloromethane

Concen: 2.375 ug/l

RT: 7.68 min Scan# 948

Delta R.T. 0.18 min

Lab File: VW013513.D

Acq: 09 Oct 2019 19:10

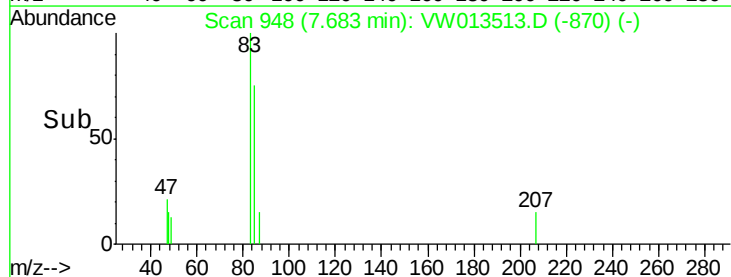
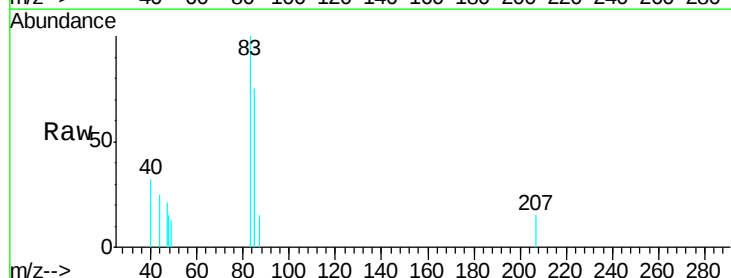
Tgt Ion: 49 Resp: 29

Ion Ratio Lower Upper

49 100

129 0.0 0.0 1.6

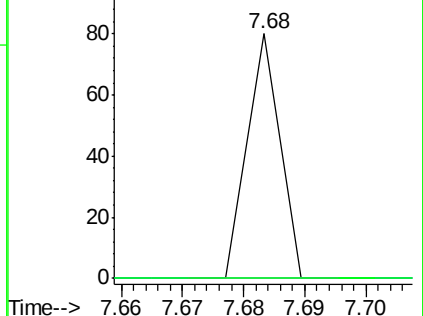
130 0.0 0.0 0.0

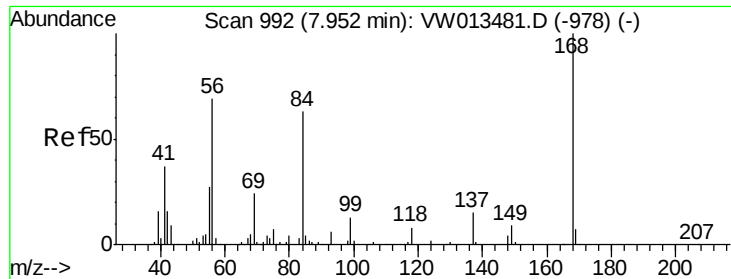


Abundance Ion 48.90 (48.60 to 49.60): VW

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

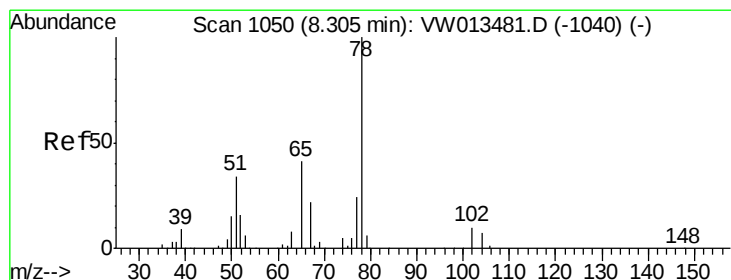
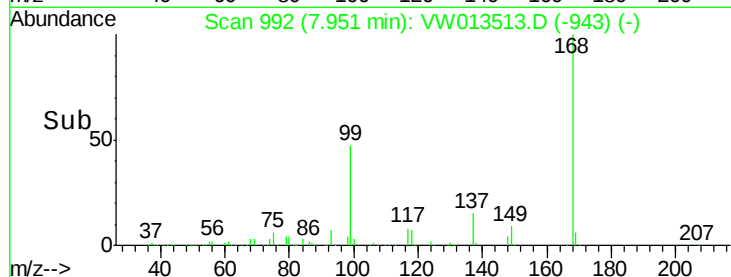
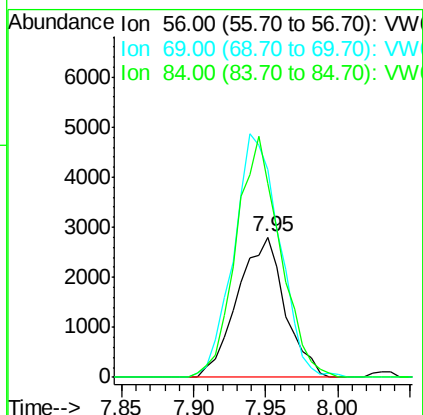
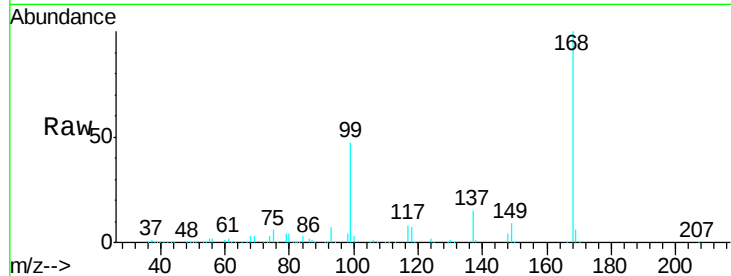




#31  
Cyclohexane  
Concen: 1.234 ug/l  
RT: 7.95 min Scan# 992  
Delta R.T. -0.00 min  
Lab File: VW013513.D  
Acq: 09 Oct 2019 19:10

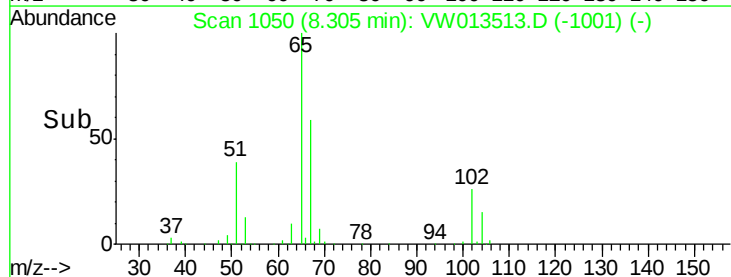
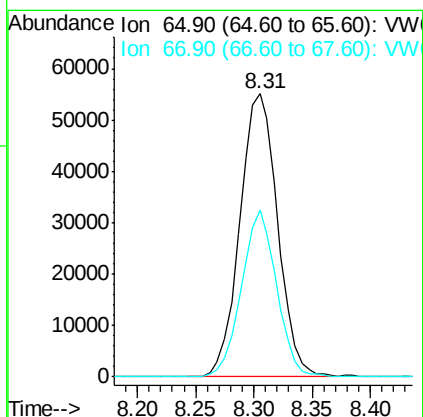
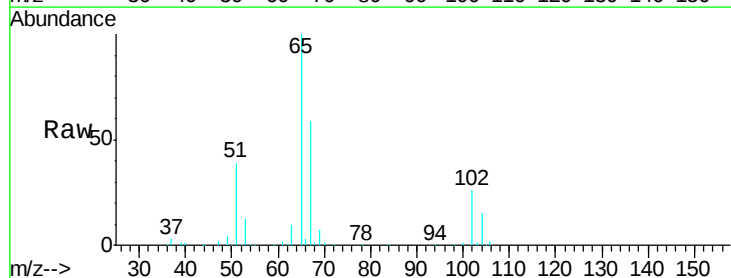
Instrument :  
MSVOA\_W  
ClientSampled :  
TP-18A-S2

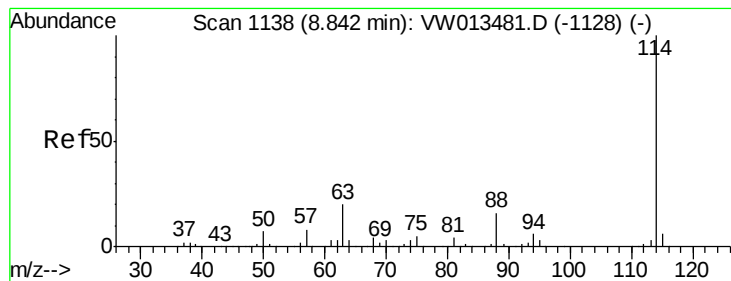
Tgt Ion: 56 Resp: 6411  
Ion Ratio Lower Upper  
56 100  
69 148.0 28.0 42.0#  
84 138.1 71.8 107.6#



#33  
1,2-Dichloroethane-d4  
Concen: 50.170 ug/l  
RT: 8.31 min Scan# 1050  
Delta R.T. -0.00 min  
Lab File: VW013513.D  
Acq: 09 Oct 2019 19:10

Tgt Ion: 65 Resp: 124526  
Ion Ratio Lower Upper  
65 100  
67 55.0 0.0 109.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VW013513.D

Acq: 09 Oct 2019 19:10

Instrument :

MSVOA\_W

ClientSampleId :

TP-18A-S2

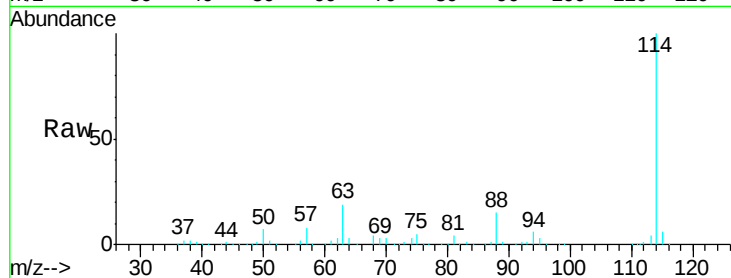
Tgt Ion:114 Resp: 476932

Ion Ratio Lower Upper

114 100

63 19.1 0.0 40.4

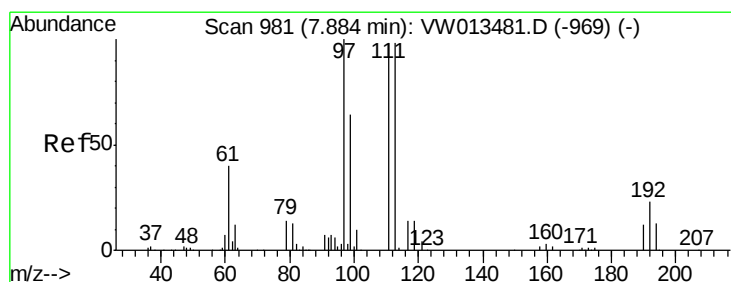
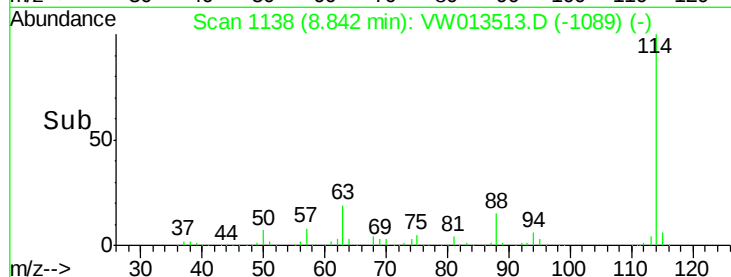
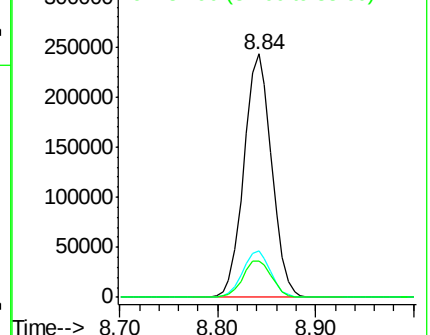
88 14.8 0.0 31.4



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: 49.363 ug/l

RT: 7.88 min Scan# 980

Delta R.T. -0.01 min

Lab File: VW013513.D

Acq: 09 Oct 2019 19:10

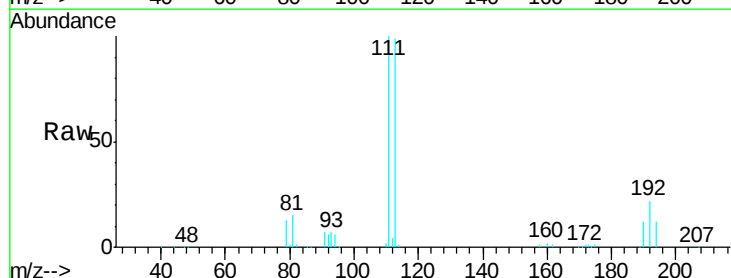
Tgt Ion:113 Resp: 131492

Ion Ratio Lower Upper

113 100

111 102.8 82.3 123.5

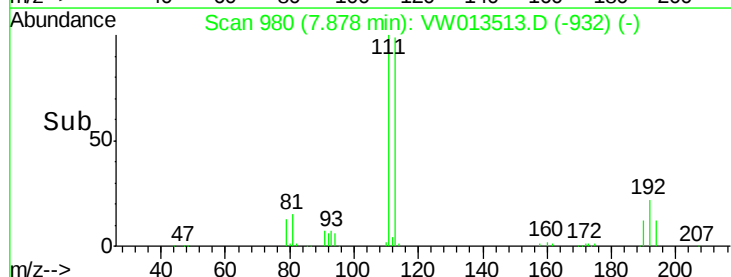
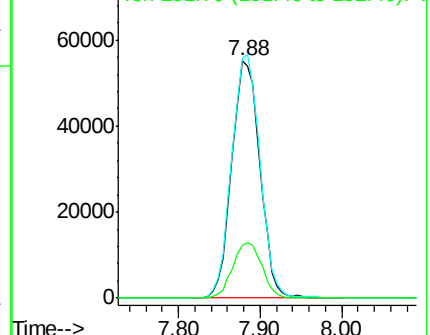
192 23.9 19.3 28.9

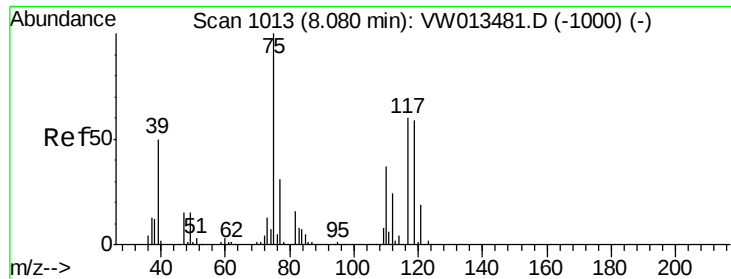


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

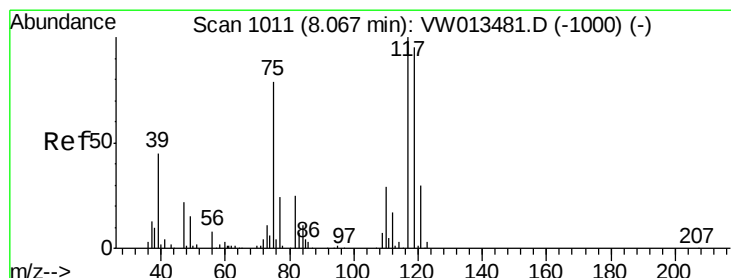
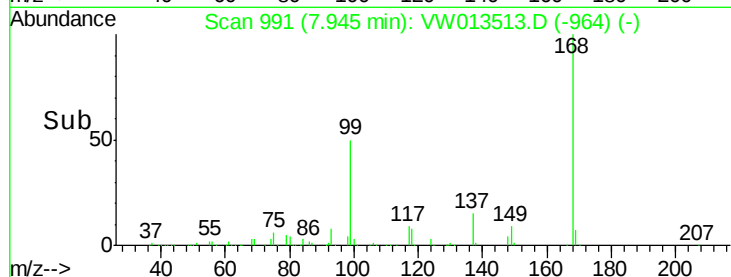
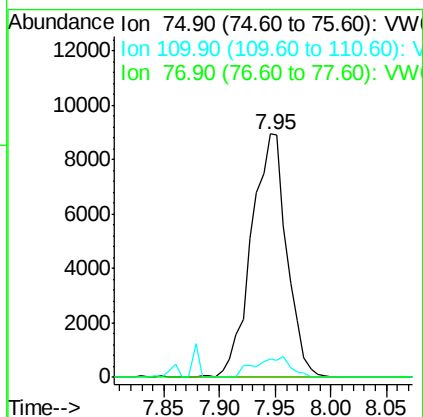
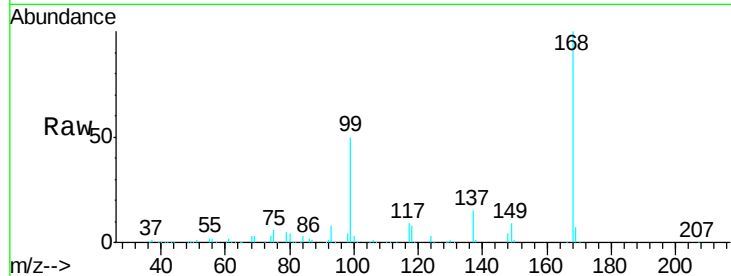




#36  
 1,1-Dichloropropene  
 Concen: 4.608 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.13 min  
 Lab File: VW013513.D  
 Acq: 09 Oct 2019 19:10

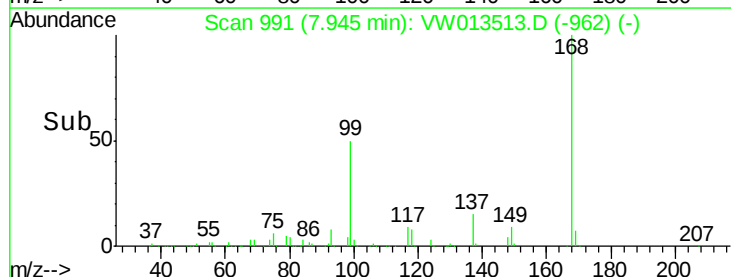
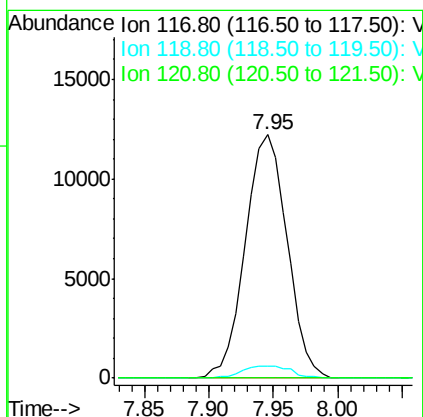
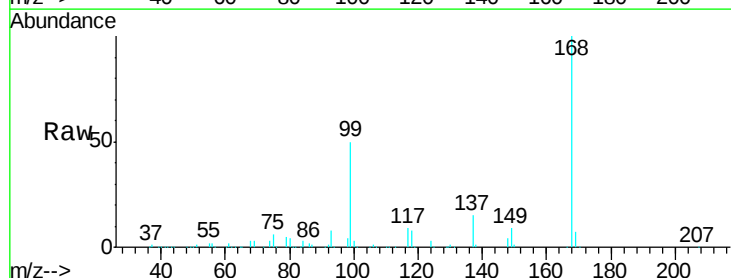
Instrument :  
 MSVOA\_W  
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 TP-18A-S2

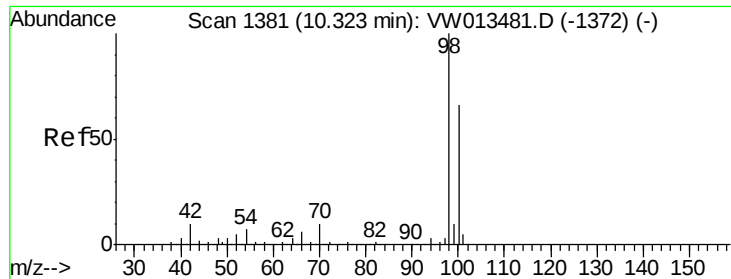
Tgt Ion: 75 Resp: 19880  
 Ion Ratio Lower Upper  
 75 100  
 110 8.5 18.4 55.2#  
 77 0.0 25.0 37.4#



#38  
 Carbon Tetrachloride  
 Concen: 7.193 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.12 min  
 Lab File: VW013513.D  
 Acq: 09 Oct 2019 19:10

Tgt Ion: 117 Resp: 27511  
 Ion Ratio Lower Upper  
 117 100  
 119 4.8 76.3 114.5#  
 121 0.0 23.6 35.4#

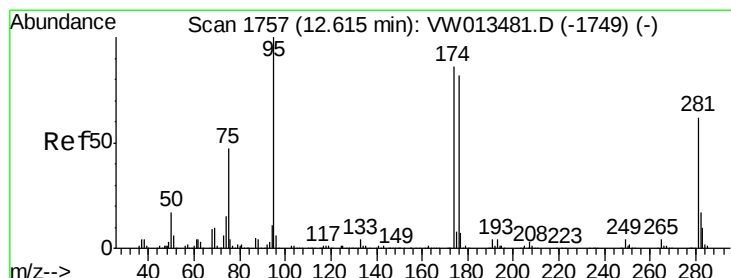
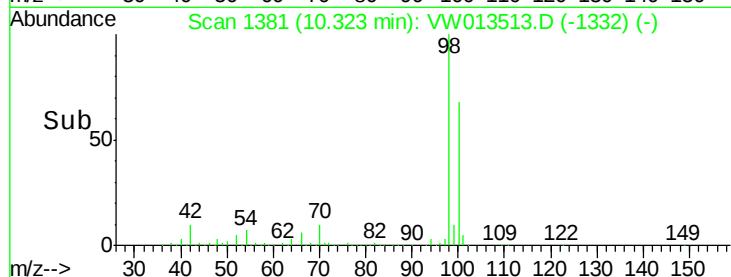
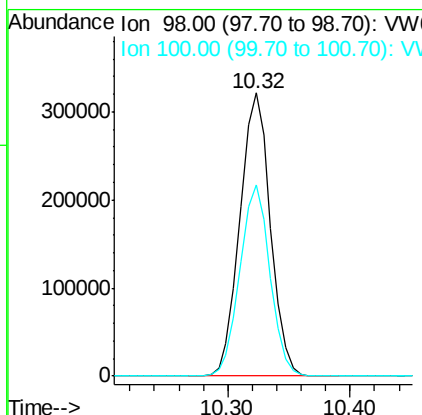
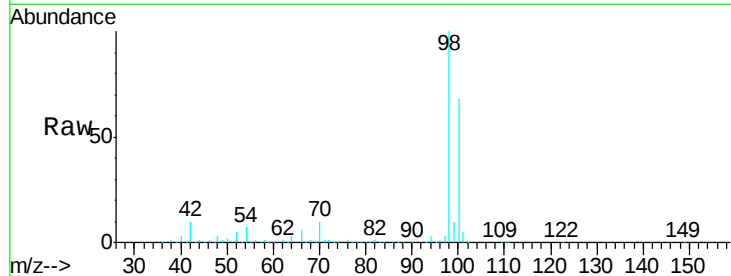




#50  
Toluene-d8  
Concen: 49.573 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. -0.00 min  
Lab File: VW013513.D  
Acq: 09 Oct 2019 19:10

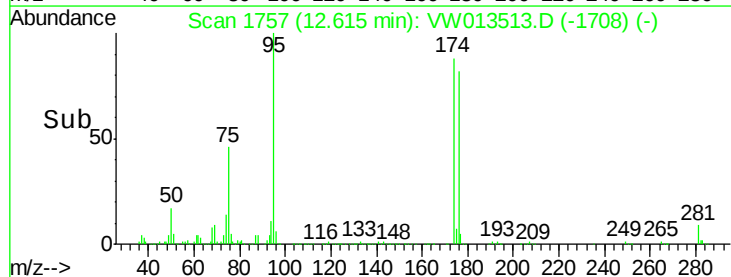
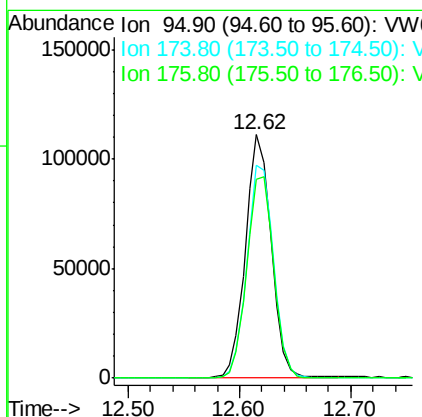
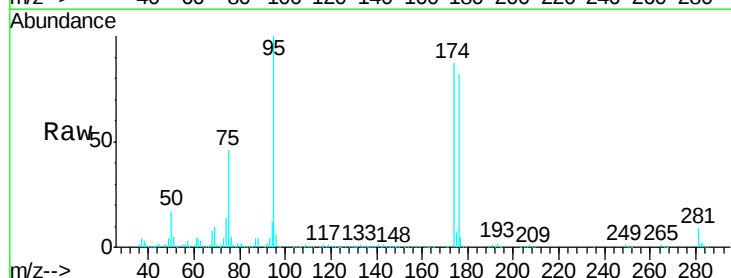
Instrument :  
MSVOA\_W  
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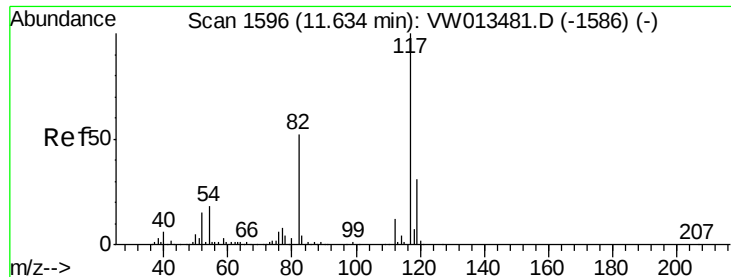
Tgt Ion: 98 Resp: 554937  
Ion Ratio Lower Upper  
98 100  
100 66.7 53.2 79.8



#62  
4-Bromofluorobenzene  
Concen: 47.474 ug/l  
RT: 12.62 min Scan# 1757  
Delta R.T. -0.00 min  
Lab File: VW013513.D  
Acq: 09 Oct 2019 19:10

Tgt Ion: 95 Resp: 178526  
Ion Ratio Lower Upper  
95 100  
174 90.4 0.0 177.4  
176 86.6 0.0 173.4

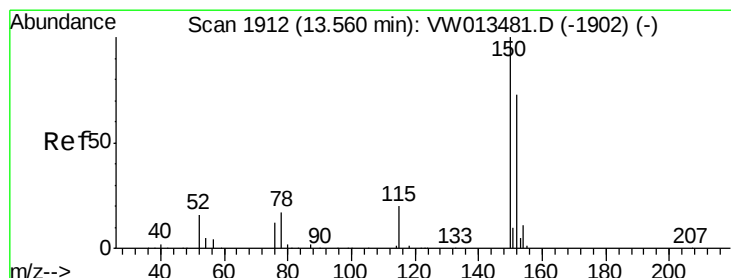
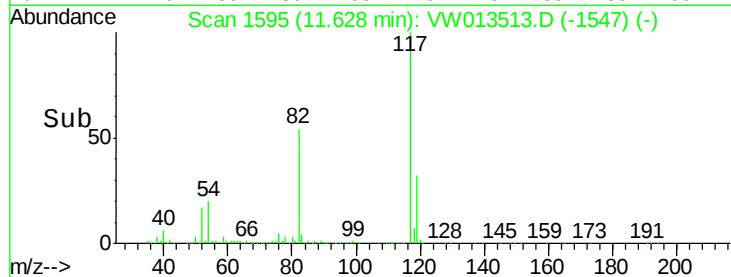
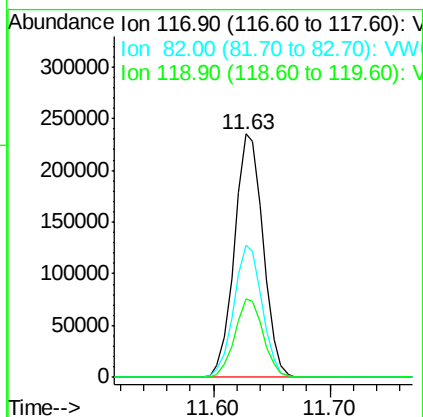
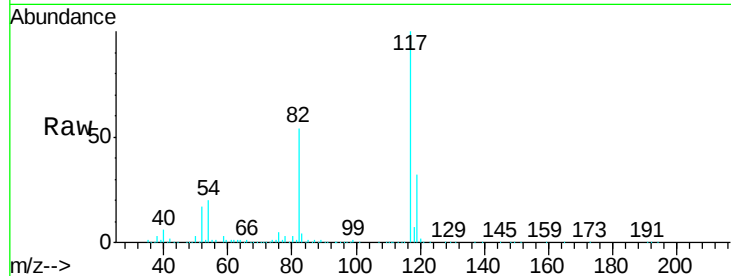




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1595  
Delta R.T. -0.01 min  
Lab File: VW013513.D  
Acq: 09 Oct 2019 19:10

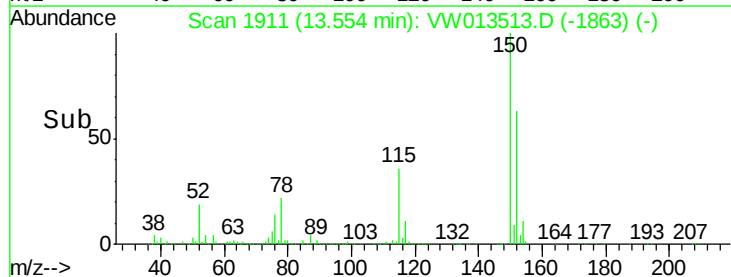
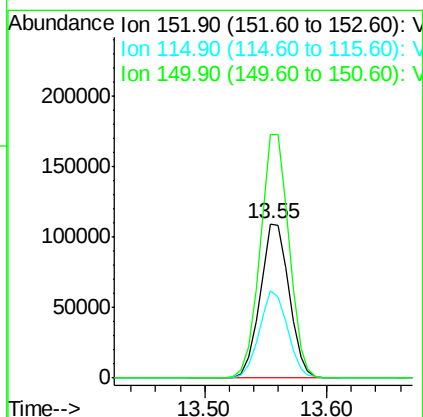
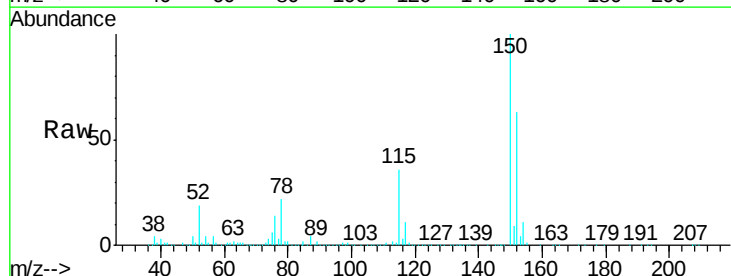
Instrument :  
MSVOA\_W  
ClientSampleId :  
TP-18A-S2

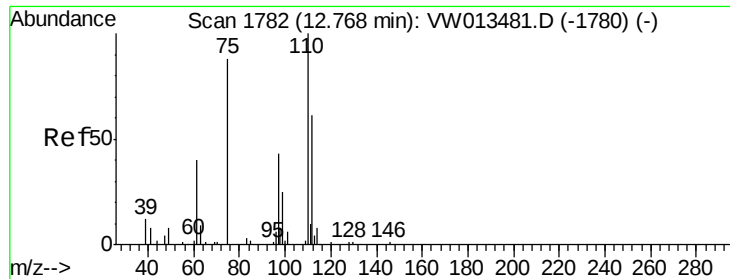
Tgt Ion:117 Resp: 403010  
Ion Ratio Lower Upper  
117 100  
82 54.1 41.4 62.2  
119 32.3 25.1 37.7



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.55 min Scan# 1911  
Delta R.T. -0.01 min  
Lab File: VW013513.D  
Acq: 09 Oct 2019 19:10

Tgt Ion:152 Resp: 180555  
Ion Ratio Lower Upper  
152 100  
115 55.1 27.0 81.0  
150 157.2 0.0 337.4





#76

1,2,3-Trichloropropane

Concen: 54.749 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW013513.D

Acq: 09 Oct 2019 19:10

Instrument :

MSVOA\_W

ClientSampleId :

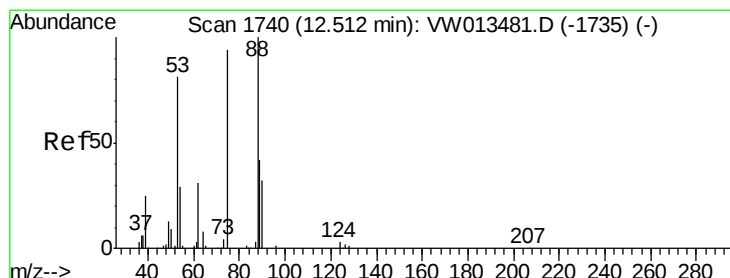
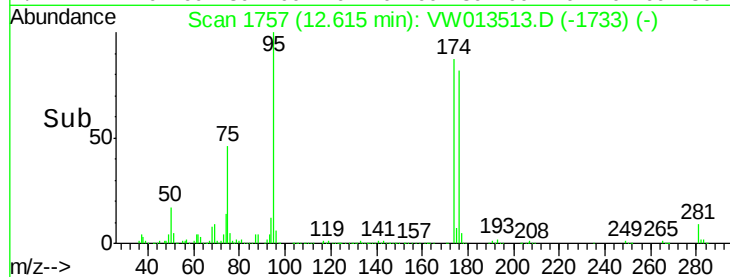
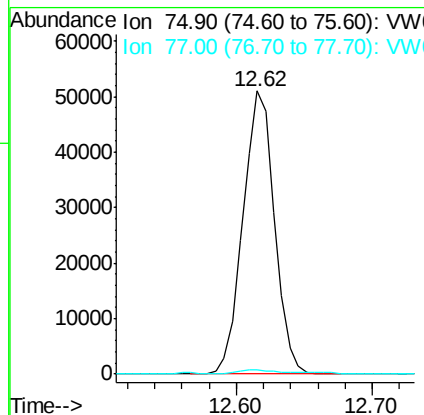
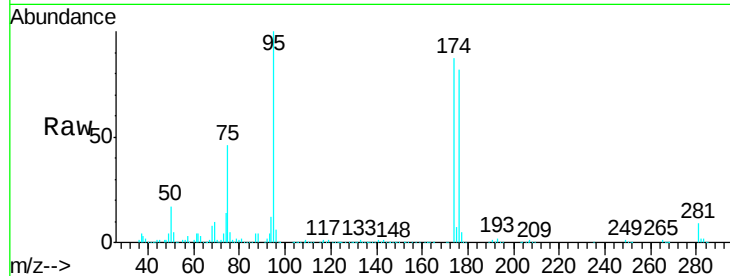
TP-18A-S2

Tgt Ion: 75 Resp: 82330

Ion Ratio Lower Upper

75 100

77 1.8 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 111.916 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW013513.D

Acq: 09 Oct 2019 19:10

Tgt Ion: 75 Resp: 82330

Ion Ratio Lower Upper

75 100

53 0.0 71.0 106.6#

89 0.0 36.1 54.1#

