

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW030819\  
 Data File : VW009069.D  
 Acq On : 08 Mar 2019 21:44  
 Operator : SY/VA  
 Sample : K1807-09RE  
 Misc : 5.06G/5ML/MSVOA W/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 TP-5RE

Quant Time: Mar 09 01:22:09 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W030719S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 08 05:22:30 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 283874   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 457767   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 417016   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 197129   | 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   | 172988   | 60.57  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 121.14% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 145429   | 52.76  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 105.52% |          |
| 50) Toluene-d8              | 10.32 | 98   | 548814   | 48.48  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 96.96%  |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 187950   | 42.18  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 84.36%  |          |

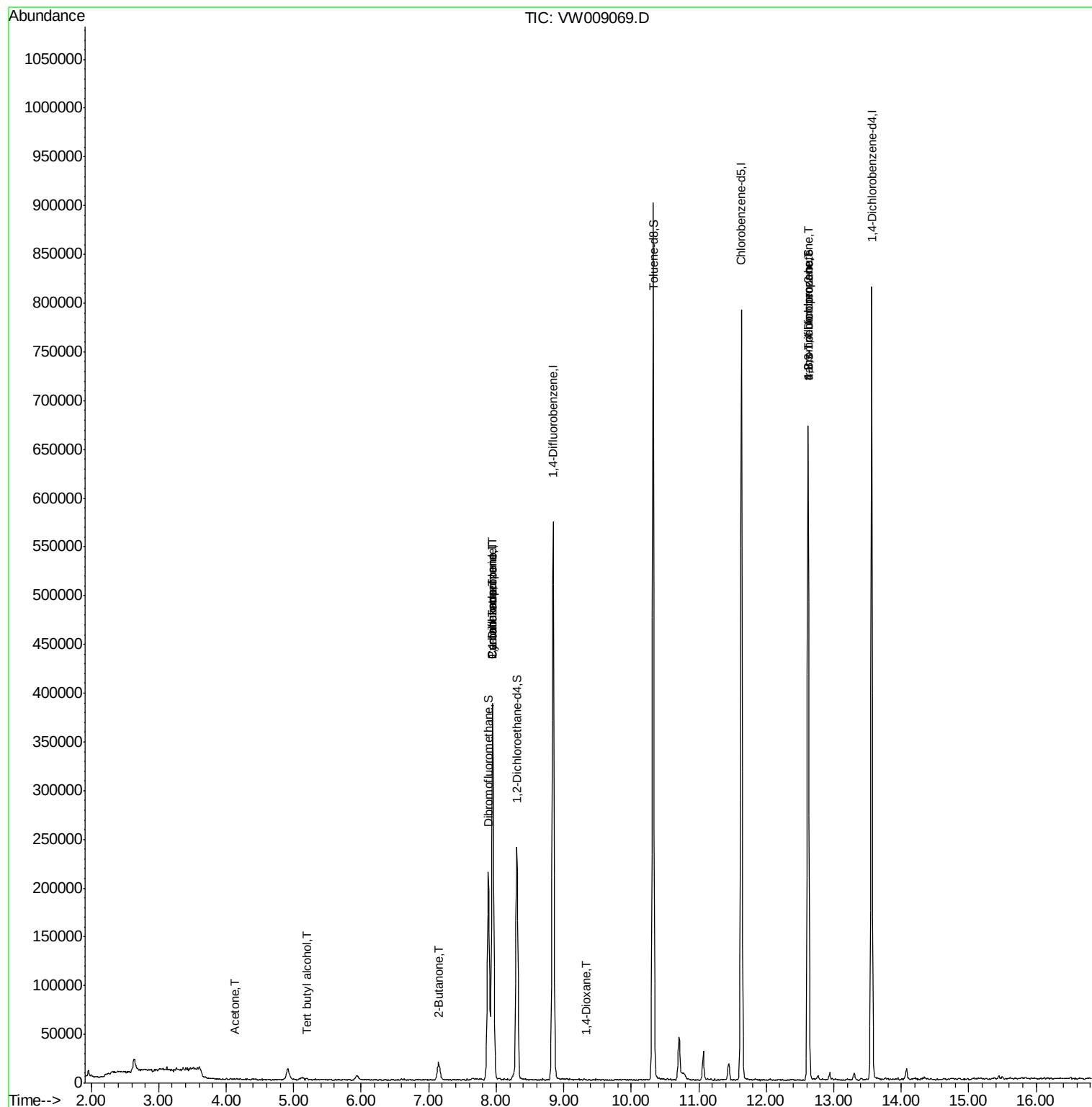
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 5.19  | 59   | 293      | 1.339     | ug/l # | 60     |
| 16) Acetone                    | 4.14  | 43   | 1554     | 2.411     | ug/l # | 47     |
| 20) Methylene Chloride         | 4.92  | 84   | 8181     | Below Cal |        | 94     |
| 25) 2-Butanone                 | 7.15  | 43   | 1094     | 1.228     | ug/l # | 50     |
| 31) Cyclohexane                | 7.95  | 56   | 6906     | 1.297     | ug/l # | 34     |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 22390    | 4.678     | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 27782    | 5.620     | ug/l # | 18     |
| 49) 1,4-Dioxane                | 9.34  | 88   | 26       | 1.039     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 100095   | 64.267    | ug/l # | 1      |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 100095   | 143.749   | ug/l # | 5      |

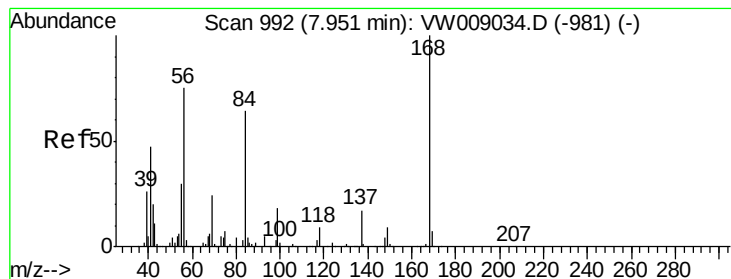
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW030819\  
Data File : VW009069.D  
Acq On : 08 Mar 2019 21:44  
Operator : SY/VA  
Sample : K1807-09RE  
Misc : 5.06G/5ML/MSVOA W/SOIL  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
TP-5RE

Quant Time: Mar 09 01:22:09 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W030719S.M  
Quant Title : SW846 8260  
QLast Update : Fri Mar 08 05:22:30 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW009069.D

Acq: 08 Mar 2019 21:44

Instrument :

MSVOA\_W

ClientSampleId :

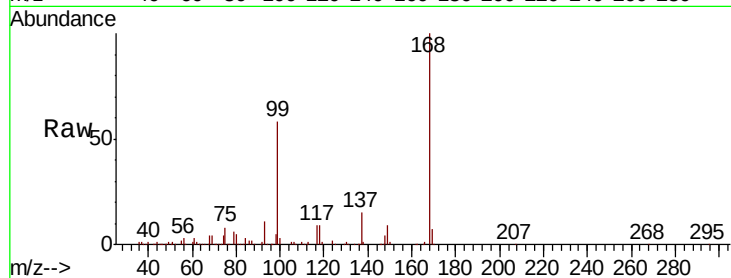
TP-5RE

Tot Ion:168 Resp: 283874

Ion Ratio Lower Upper

168 100

99 57.9 42.2 63.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

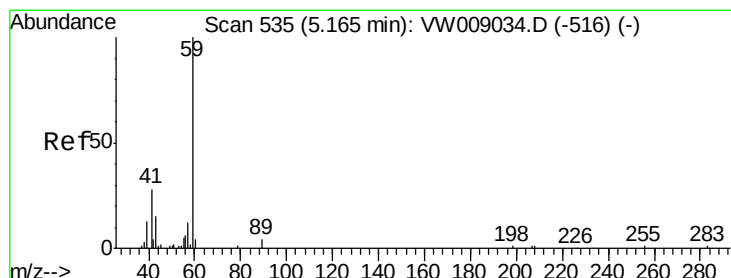
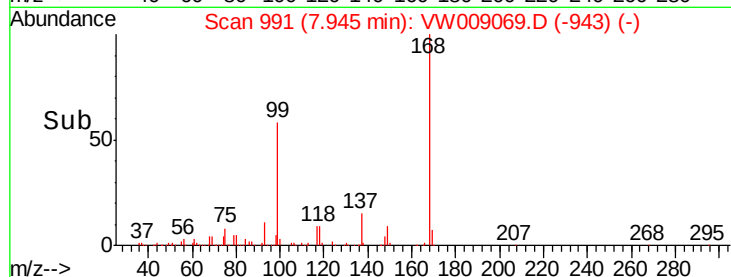
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 1.339 ug/l

RT: 5.19 min Scan# 539

Delta R.T. 0.02 min

Lab File: VW009069.D

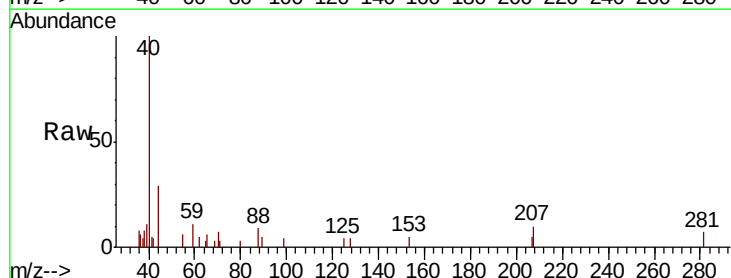
Acq: 08 Mar 2019 21:44

Tgt Ion: 59 Resp: 293

Ion Ratio Lower Upper

59 100

57 25.6 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

300

250

200

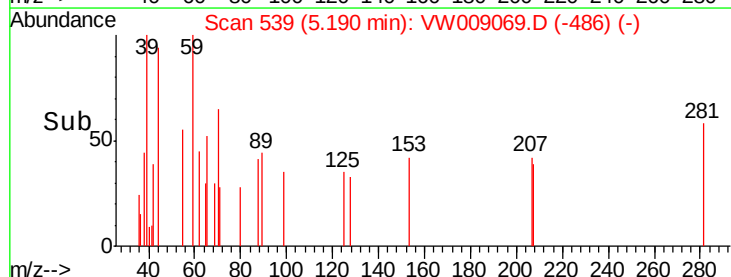
150

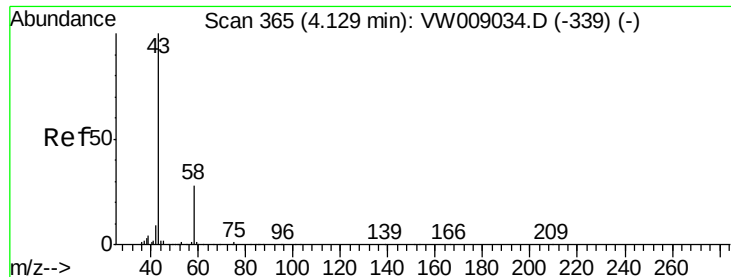
100

50

0

Time-->

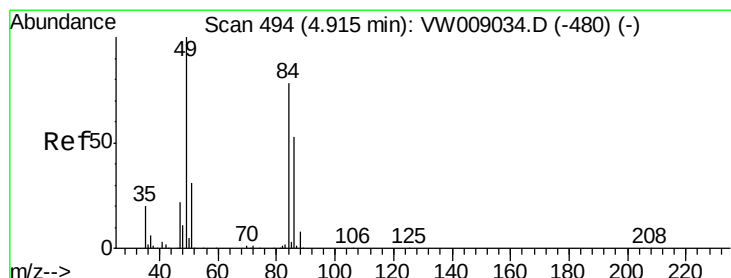
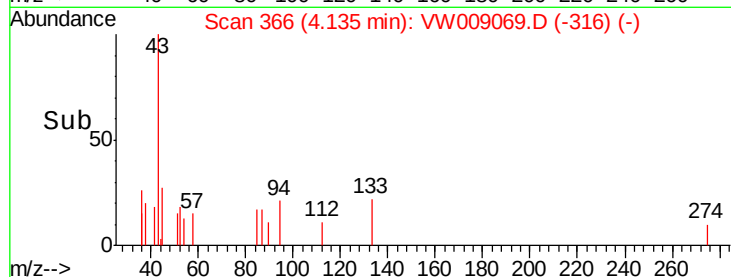
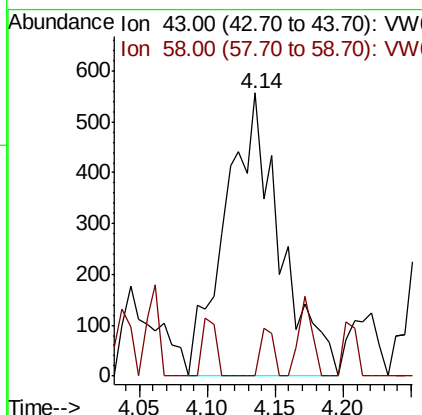
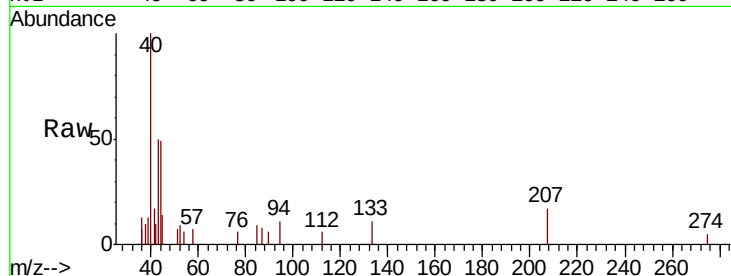




#16  
Acetone  
Concen: 2.411 ug/l  
RT: 4.14 min Scan# 366  
Delta R.T. 0.01 min  
Lab File: VW009069.D  
Acq: 08 Mar 2019 21:44

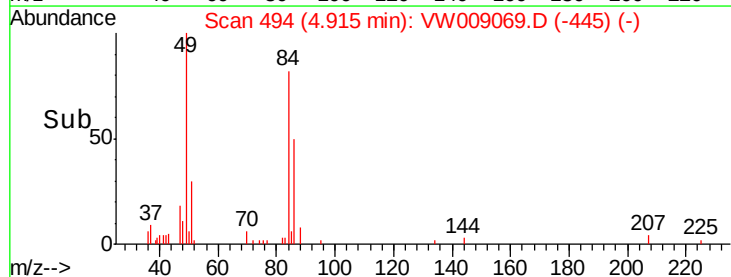
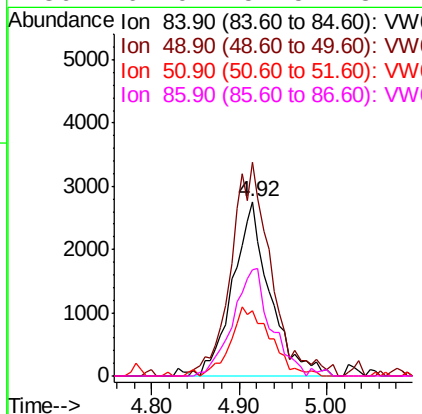
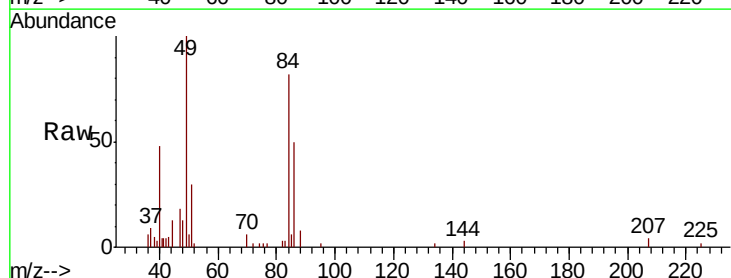
Instrument :  
MSVOA\_W  
ClientSampled :  
TP-5RE

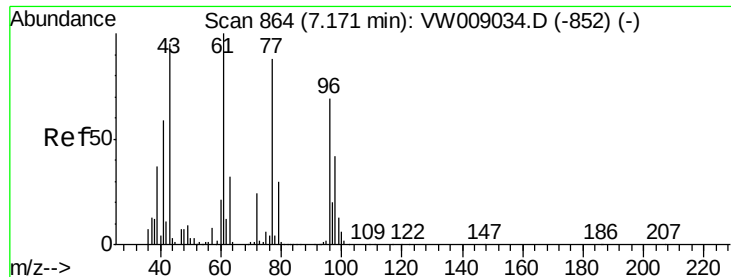
Tot Ion: 43 Resp: 1554  
Ion Ratio Lower Upper  
43 100  
58 0.0 22.5 33.7#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.92 min Scan# 494  
Delta R.T. 0.00 min  
Lab File: VW009069.D  
Acq: 08 Mar 2019 21:44

Tgt Ion: 84 Resp: 8181  
Ion Ratio Lower Upper  
84 100  
49 122.6 102.4 153.6  
51 37.2 31.6 47.4  
86 61.0 54.5 81.7





#25

2-Butanone

Concen: 1.228 ug/l

RT: 7.15 min Scan# 860

Delta R.T. -0.02 min

Lab File: VW009069.D

Acq: 08 Mar 2019 21:44

Instrument :

MSVOA\_W

ClientSampled :

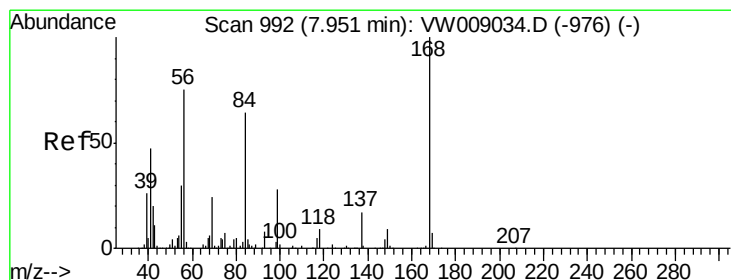
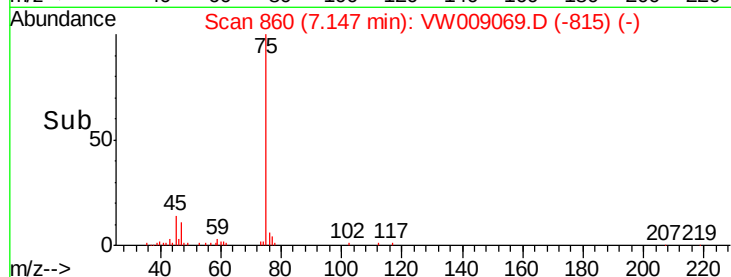
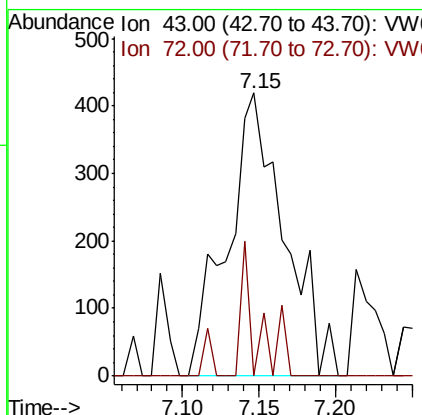
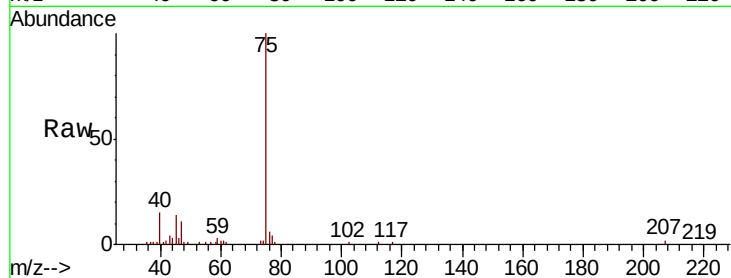
TP-5RE

Tot Ion: 43 Resp: 1094

Ion Ratio Lower Upper

43 100

72 0.0 20.0 30.0#



#31

Cyclohexane

Concen: 1.297 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW009069.D

Acq: 08 Mar 2019 21:44

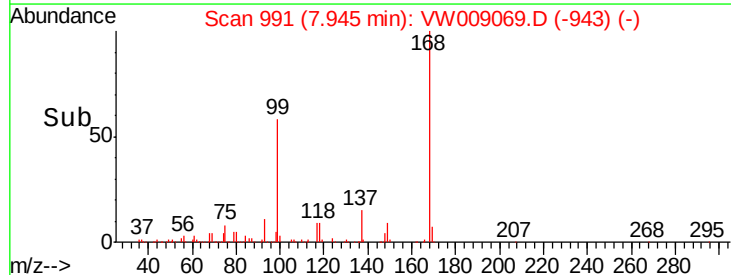
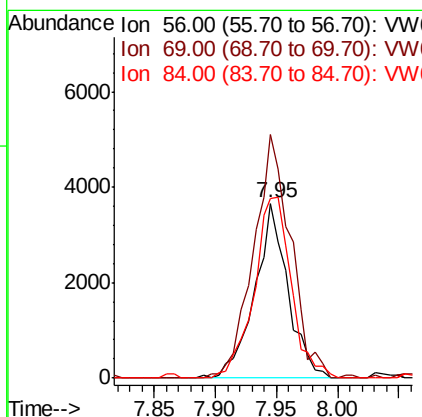
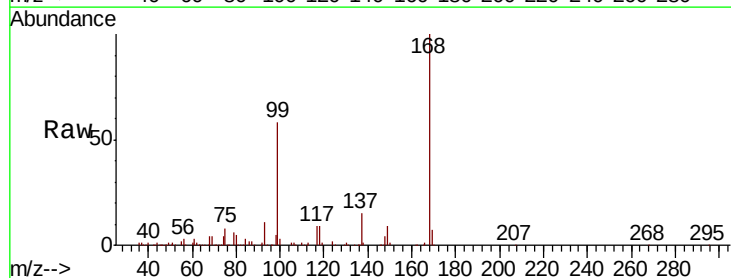
Tgt Ion: 56 Resp: 6906

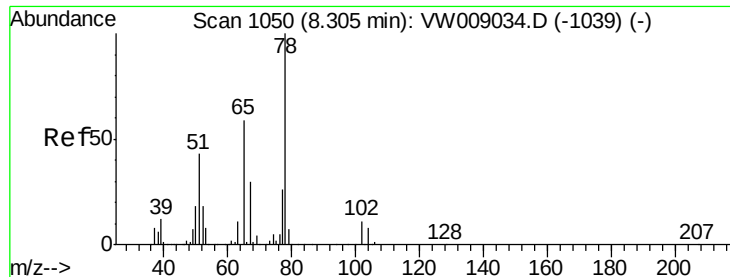
Ion Ratio Lower Upper

56 100

69 139.5 25.5 38.3#

84 103.0 68.6 103.0#

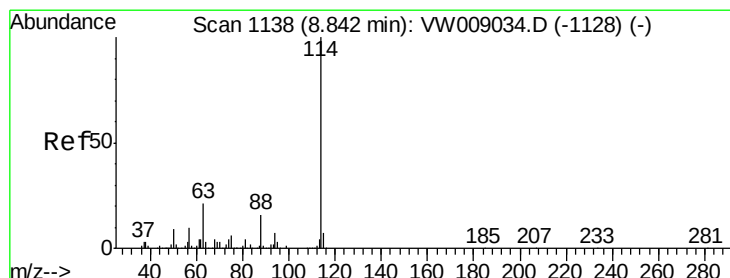
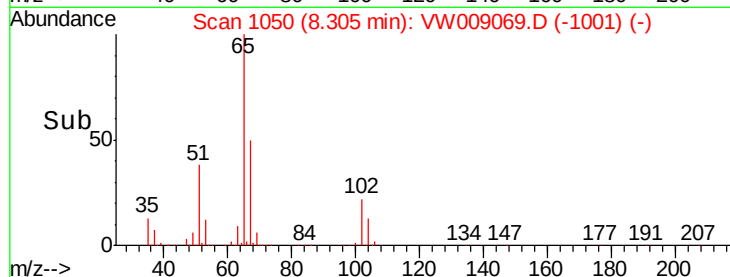
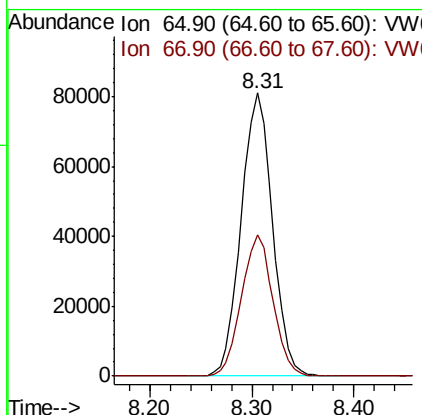
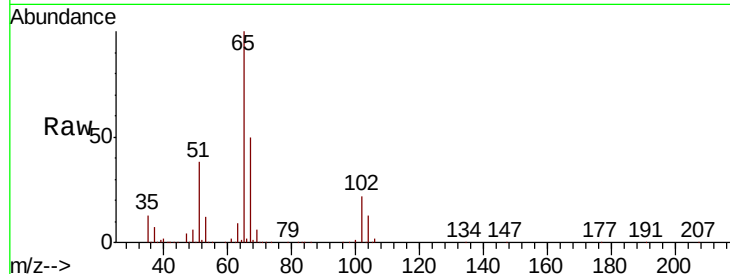




#33  
 1,2-Dichloroethane-d4  
 Concen: 60.569 ug/l  
 RT: 8.31 min Scan# 1050  
 Delta R.T. 0.00 min  
 Lab File: VW009069.D  
 Acq: 08 Mar 2019 21:44

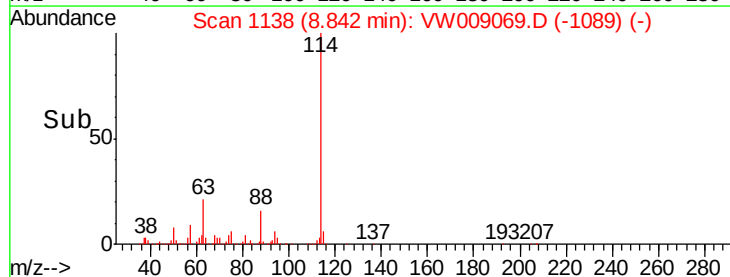
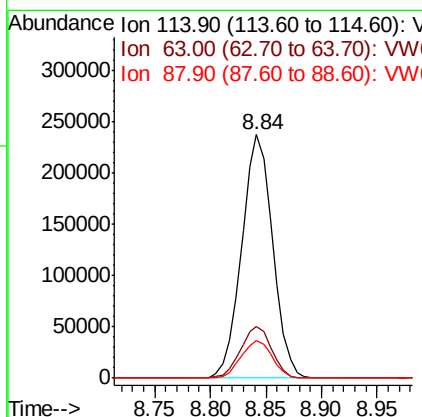
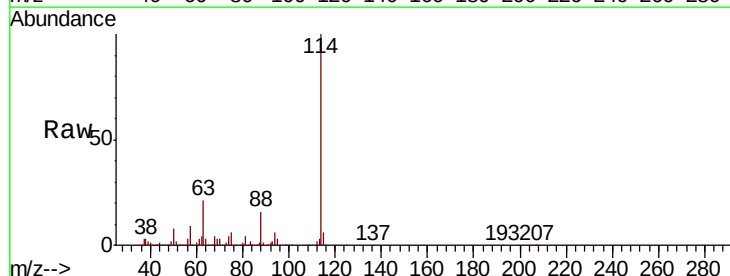
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 TP-5RE

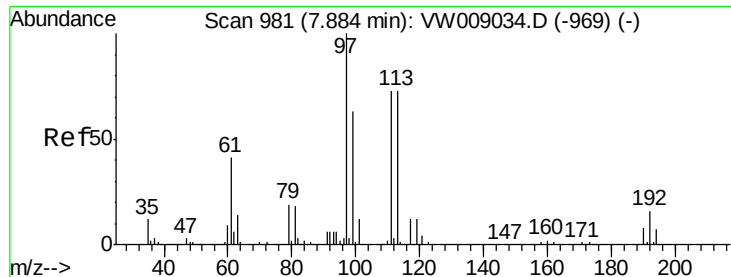
Tot Ion: 65 Resp: 172988  
 Ion Ratio Lower Upper  
 65 100  
 67 50.5 0.0 103.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. 0.00 min  
 Lab File: VW009069.D  
 Acq: 08 Mar 2019 21:44

Tgt Ion: 114 Resp: 457767  
 Ion Ratio Lower Upper  
 114 100  
 63 21.1 0.0 41.2  
 88 15.7 0.0 31.2





#35

Dibromofluoromethane

Concen: 52.765 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.00 min

Lab File: VW009069.D

Acq: 08 Mar 2019 21:44

Instrument :

MSVOA\_W

ClientSampleId :

TP-5RE

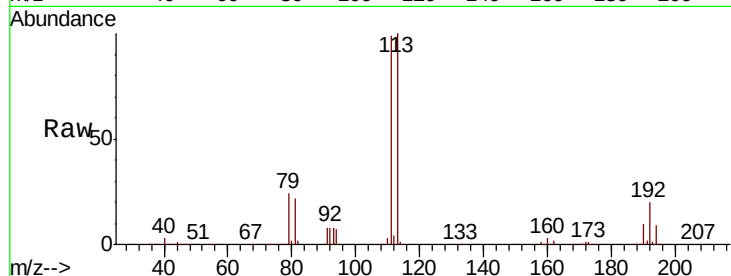
Tot Ion:113 Resp: 145429

Ion Ratio Lower Upper

113 100

111 102.2 81.0 121.4

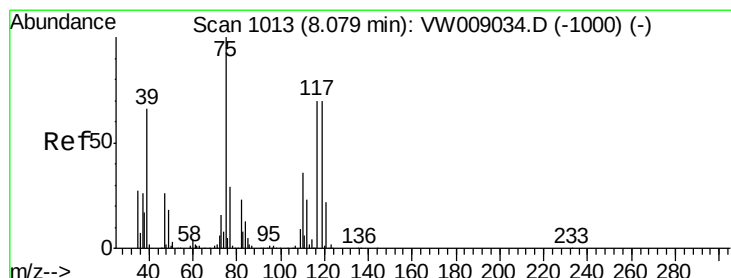
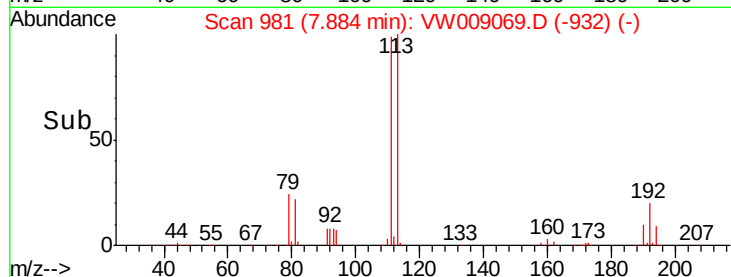
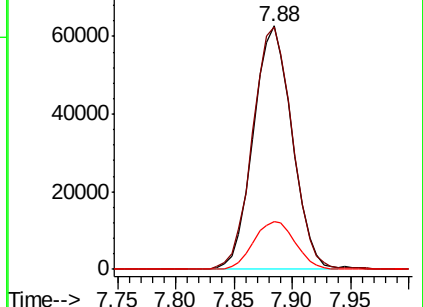
192 21.1 17.1 25.7



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: 4.678 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW009069.D

Acq: 08 Mar 2019 21:44

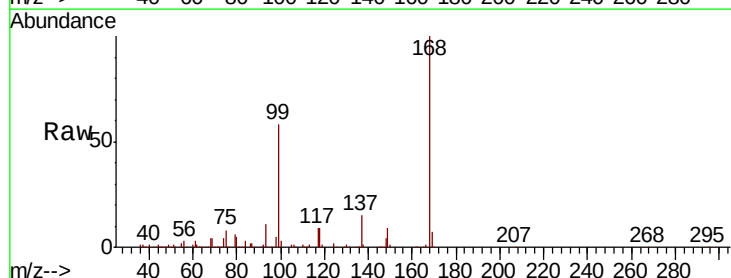
Tgt Ion: 75 Resp: 22390

Ion Ratio Lower Upper

75 100

110 9.9 17.6 52.9#

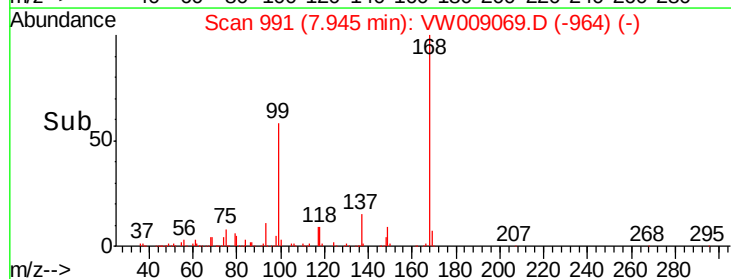
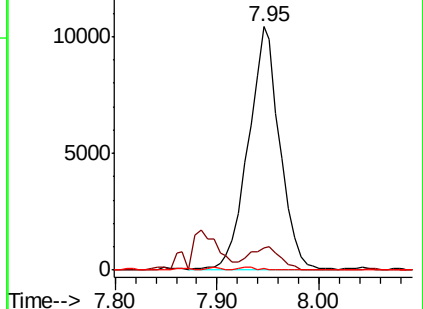
77 0.6 25.1 37.7#

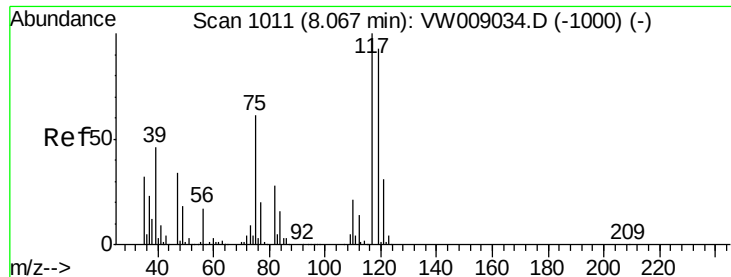


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW





#38

Carbon Tetrachloride

Concen: 5.620 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.12 min

Lab File: VW009069.D

Acq: 08 Mar 2019 21:44

Instrument :

MSVOA\_W

ClientSampleId :

TP-5RE

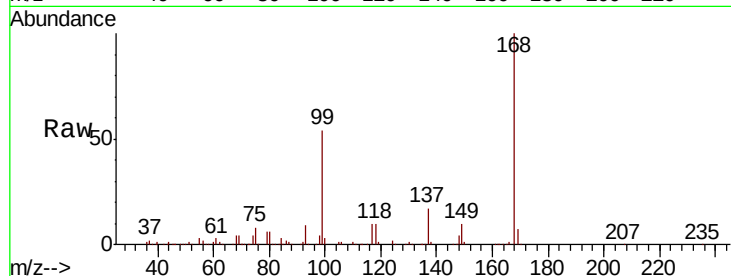
Tot Ion:117 Resp: 27782

Ion Ratio Lower Upper

117 100

119 6.9 74.6 112.0#

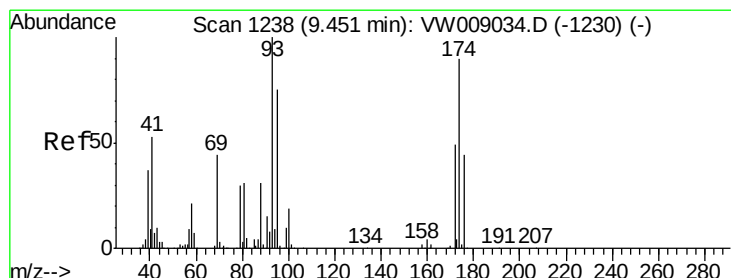
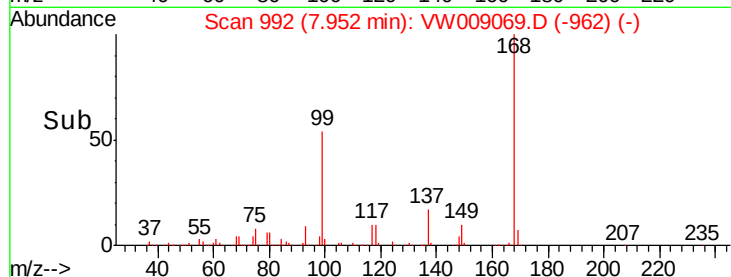
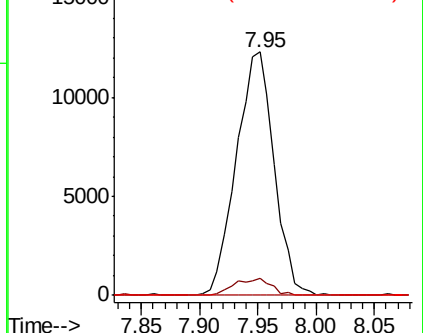
121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#49

1,4-Dioxane

Concen: 1.039 ug/l

RT: 9.34 min Scan# 1219

Delta R.T. -0.12 min

Lab File: VW009069.D

Acq: 08 Mar 2019 21:44

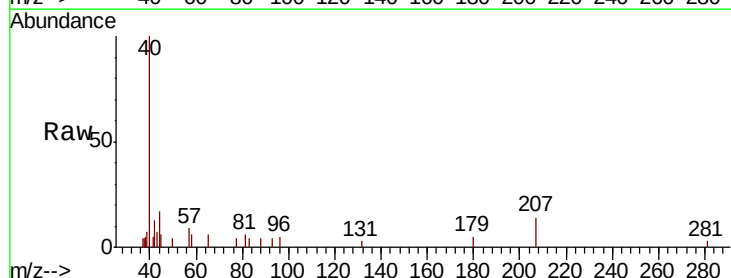
Tgt Ion: 88 Resp: 26

Ion Ratio Lower Upper

88 100

43 1426.9 29.0 43.4#

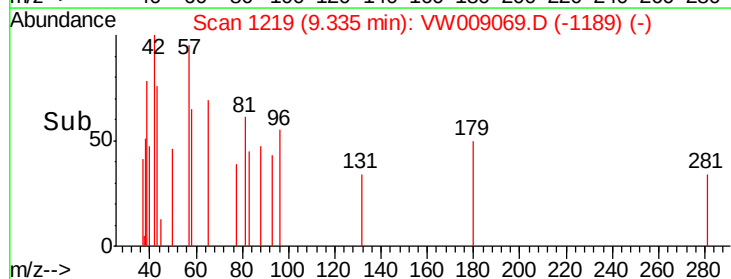
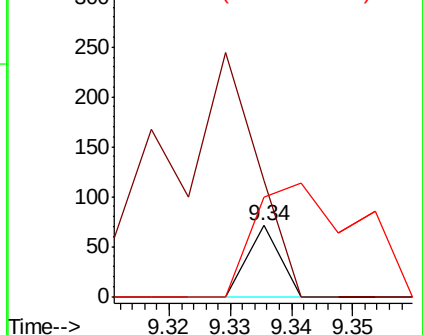
58 507.7 59.2 88.8#



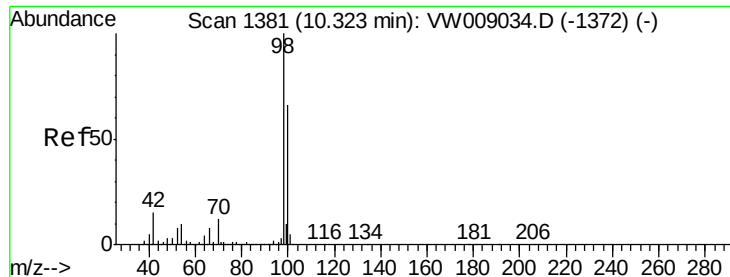
Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW







#50

Toluene-d8

Concen: 48.482 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW009069.D

Acq: 08 Mar 2019 21:44

Instrument :

MSVOA\_W

ClientSampleId :

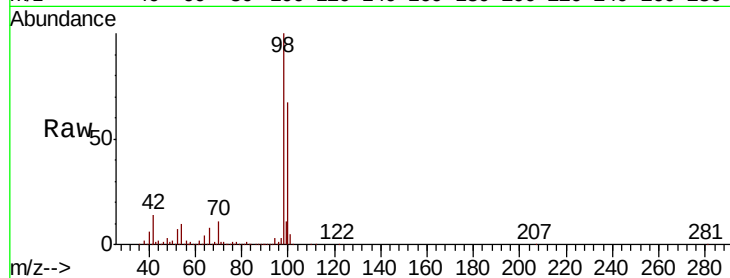
TP-5RE

Tot Ion: 98 Resp: 548814

Ion Ratio Lower Upper

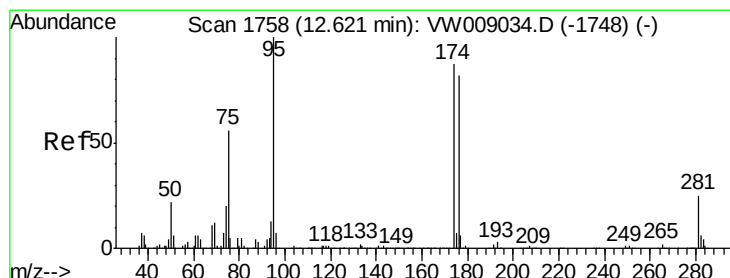
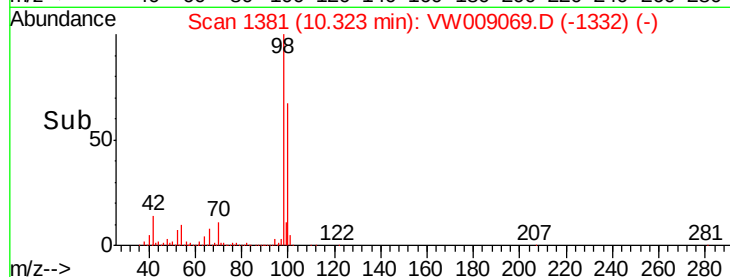
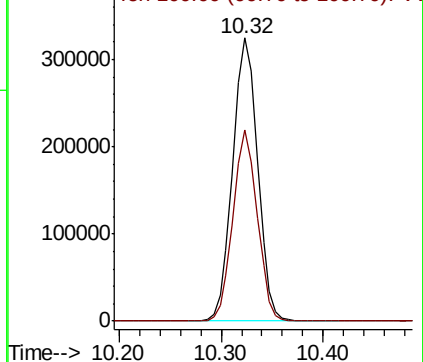
98 100

100 65.7 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW



#62

4-Bromofluorobenzene

Concen: 42.177 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW009069.D

Acq: 08 Mar 2019 21:44

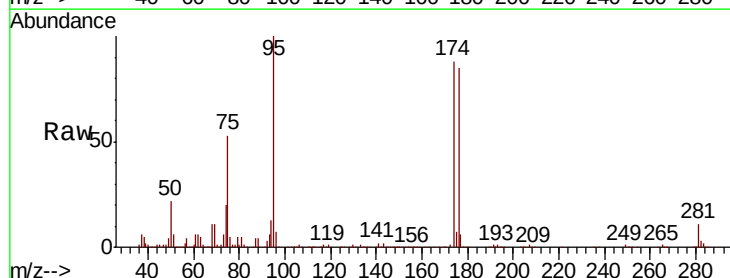
Tgt Ion: 95 Resp: 187950

Ion Ratio Lower Upper

95 100

174 87.3 0.0 167.0

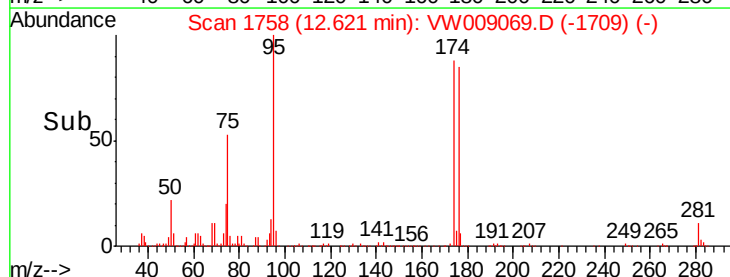
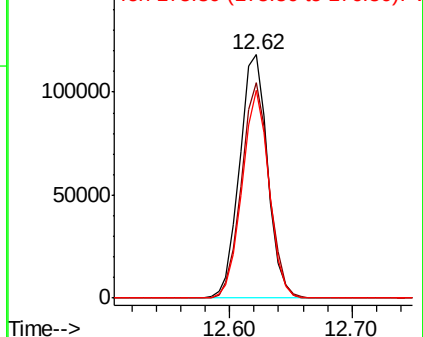
176 81.8 0.0 159.4

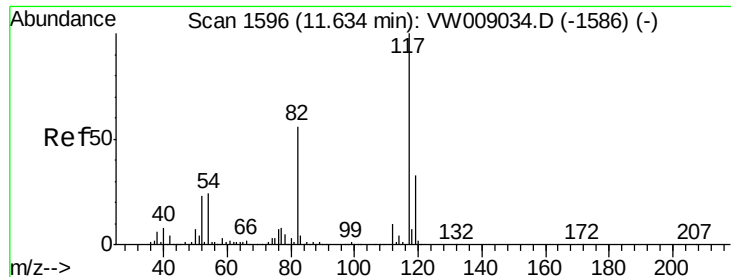


Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

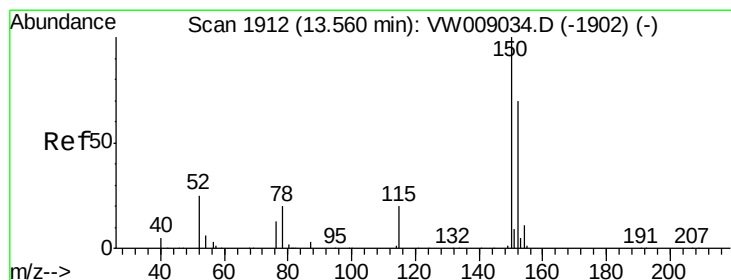
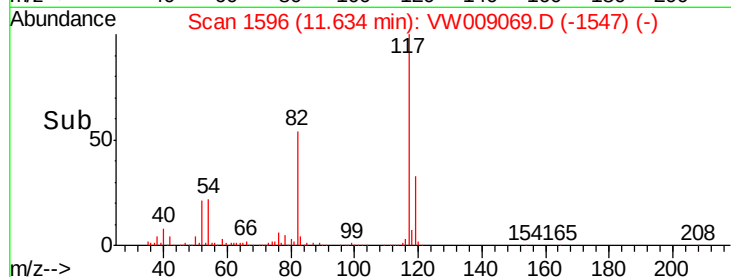
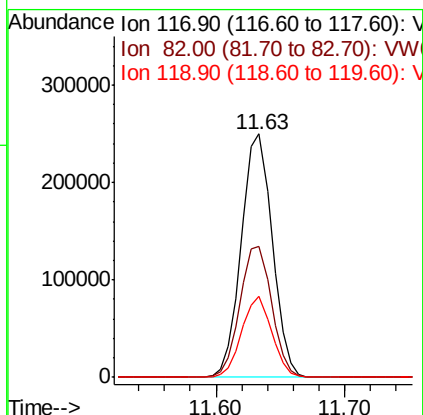
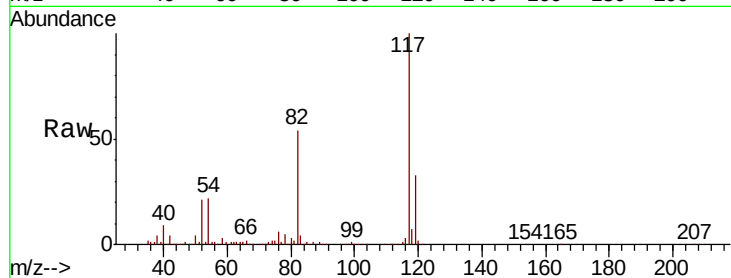




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. 0.00 min  
Lab File: VW009069.D  
Acq: 08 Mar 2019 21:44

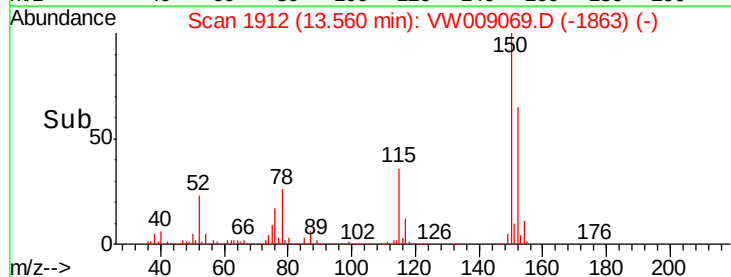
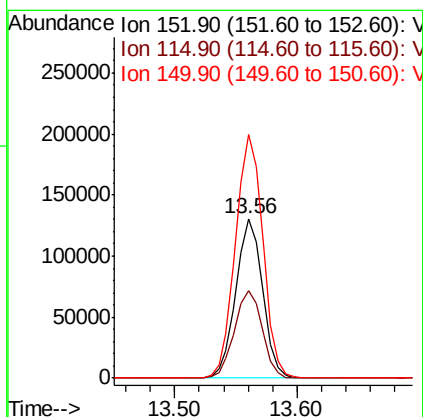
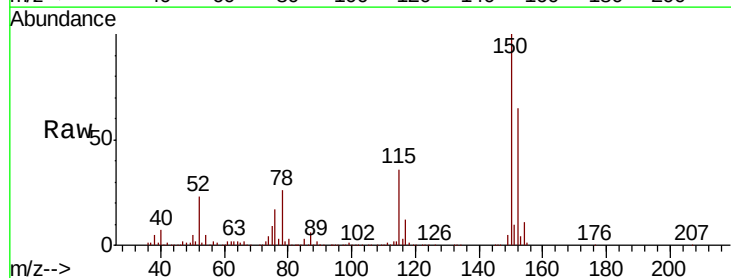
Instrument :  
MSVOA\_W  
ClientSampleId :  
TP-5RE

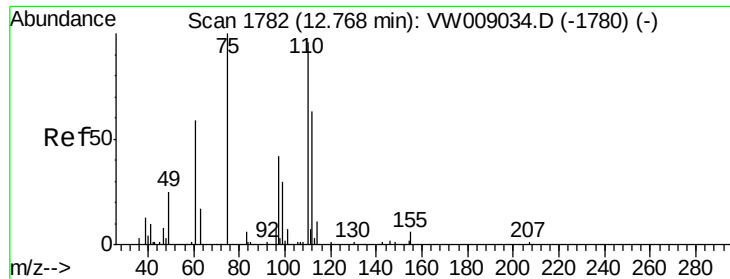
Tot Ion:117 Resp: 417016  
Ion Ratio Lower Upper  
117 100  
82 53.6 45.0 67.6  
119 33.1 26.6 39.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. 0.00 min  
Lab File: VW009069.D  
Acq: 08 Mar 2019 21:44

Tgt Ion:152 Resp: 197129  
Ion Ratio Lower Upper  
152 100  
115 56.7 28.9 86.7  
150 156.4 0.0 349.2





#76

1,2,3-Trichloropropane

Concen: 64.267 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW009069.D

Acq: 08 Mar 2019 21:44

Instrument :

MSVOA\_W

ClientSampleId :

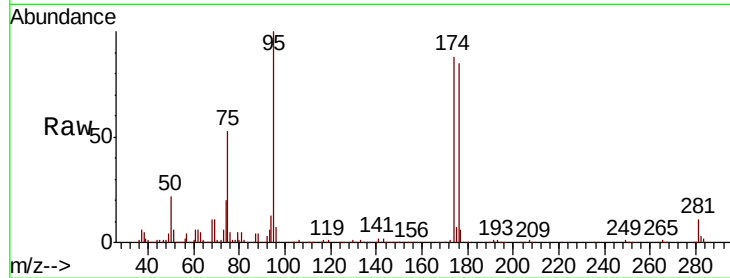
TP-5RE

Tot Ion: 75 Resp: 100095

Ion Ratio Lower Upper

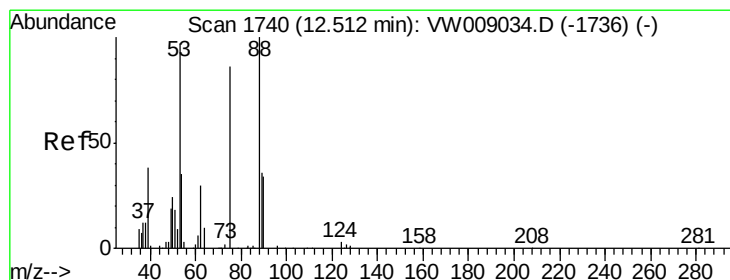
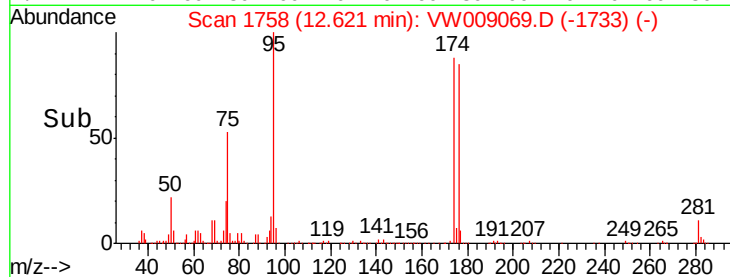
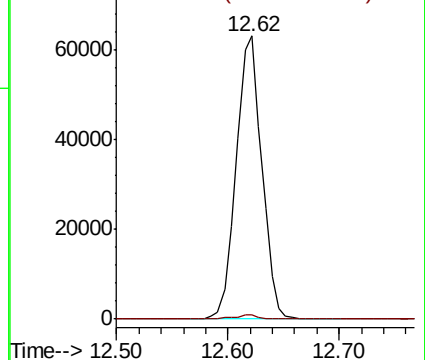
75 100

77 1.4 186.7 560.0#



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: 143.749 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW009069.D

Acq: 08 Mar 2019 21:44

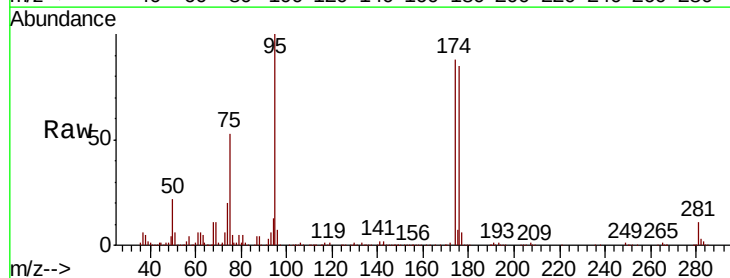
Tgt Ion: 75 Resp: 100095

Ion Ratio Lower Upper

75 100

53 0.3 90.5 135.7#

89 0.3 37.5 56.3#



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

