

Data File : VW008945.D  
Acq On : 02 Mar 2019 03:19  
Operator : SY/VA  
Sample : K1675-05RE  
Misc : 4.75G/5ML/MSVOA\_W/SOIL  
ALS Vial : 38 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
Z-3-11-BRE

Quant Time: Mar 02 05:12:33 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W022119S.M  
Quant Title : SW846 8260  
QLast Update : Fri Feb 22 00:38:32 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 315380   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 484490   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 434654   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 202392   | 50.00 | ug/l  | 0.00     |

System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 178435   | 60.32 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 120.64% |      |
| 35) Dibromofluoromethane  | 7.88   | 113 | 152637   | 52.47 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 104.94% |      |
| 50) Toluene-d8            | 10.32  | 98  | 582886   | 51.91 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.82% |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 199308   | 45.33 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 90.66%  |      |

Target Compounds

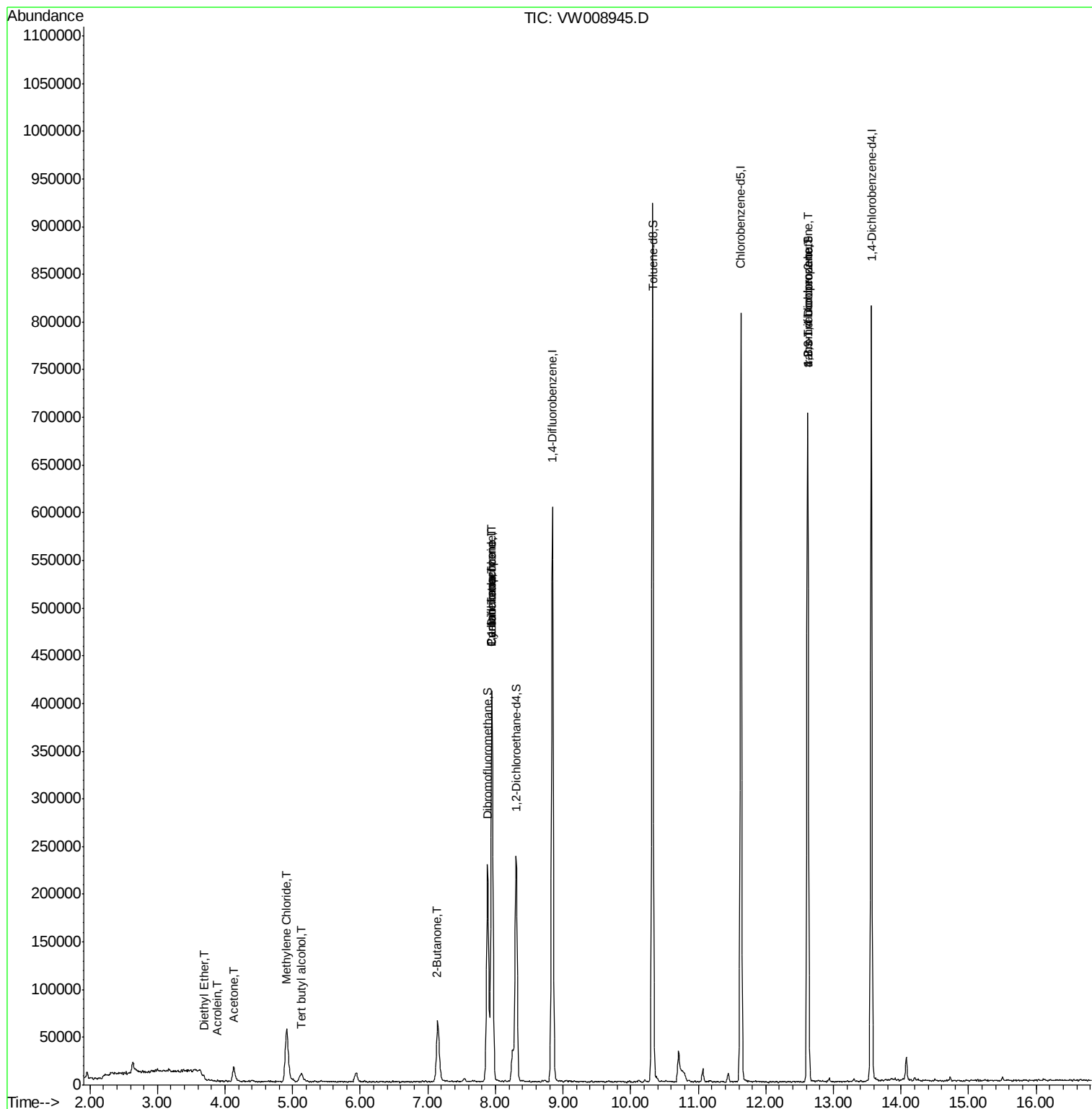
|                                |       |     |        |         |        | Qvalue |
|--------------------------------|-------|-----|--------|---------|--------|--------|
| 8) Diethyl Ether               | 3.68  | 74  | 2262   | 1.388   | ug/l   | 85     |
| 11) Tert butyl alcohol         | 5.13  | 59  | 8157   | 30.975  | ug/l # | 73     |
| 13) Acrolein                   | 3.89  | 56  | 43     | 19.922  | ug/l # | 1      |
| 16) Acetone                    | 4.13  | 43  | 25899  | 37.774  | ug/l # | 86     |
| 20) Methylene Chloride         | 4.92  | 84  | 42059  | 8.179   | ug/l   | 95     |
| 25) 2-Butanone                 | 7.13  | 43  | 2364   | 2.466   | ug/l # | 66     |
| 31) Cyclohexane                | 7.95  | 56  | 7152   | 1.283   | ug/l # | 28     |
| 36) 1,1-Dichloropropene        | 7.95  | 75  | 24320  | 5.157   | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.95  | 117 | 30102  | 6.052   | ug/l # | 19     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75  | 103866 | 62.157  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75  | 103866 | 151.109 | ug/l # | 6      |

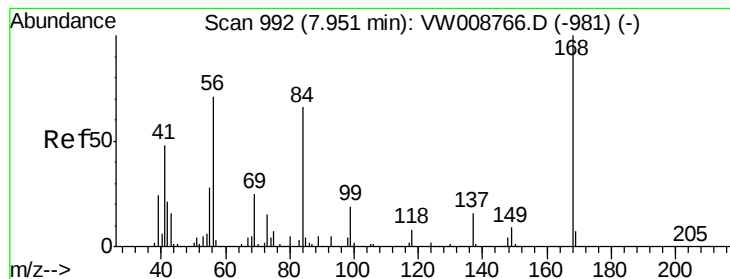
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW008945.D

Acq: 02 Mar 2019 03:19

Instrument :

MSVOA\_W

ClientSampleId :

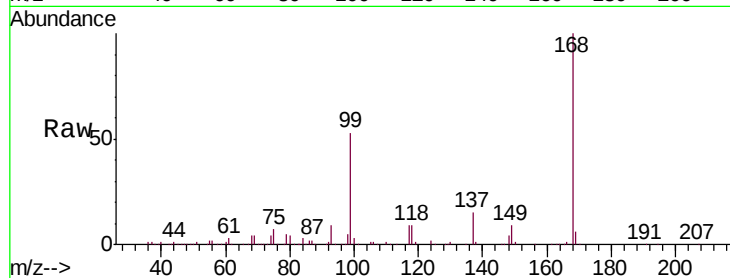
Z-3-11-BRE

Tgt Ion:168 Resp: 315380

Ion Ratio Lower Upper

168 100

99 53.5 42.2 63.2



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

7.95

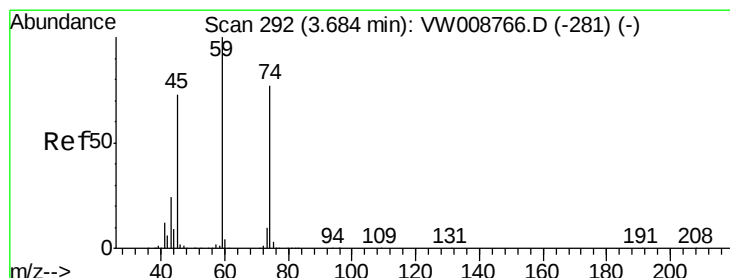
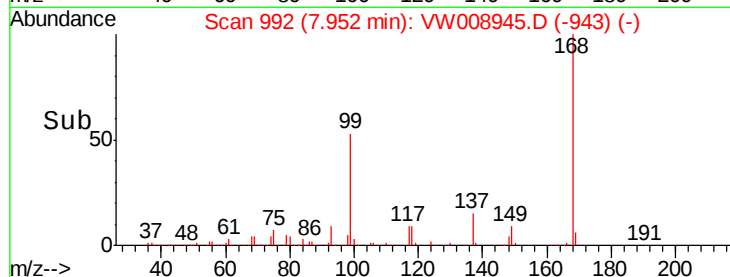
150000

100000

50000

0

Time-->



#8

Diethyl Ether

Concen: 1.388 ug/l

RT: 3.68 min Scan# 292

Delta R.T. 0.00 min

Lab File: VW008945.D

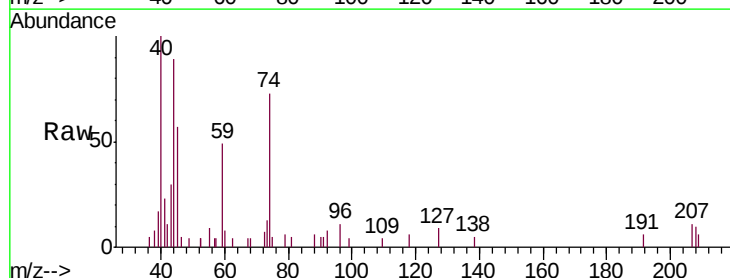
Acq: 02 Mar 2019 03:19

Tgt Ion: 74 Resp: 2262

Ion Ratio Lower Upper

74 100

45 115.3 50.2 150.6



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

3.68

1200

1000

800

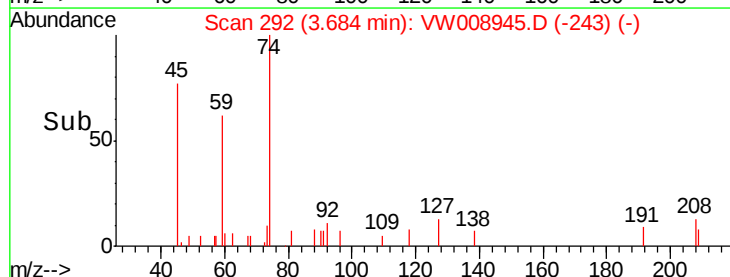
600

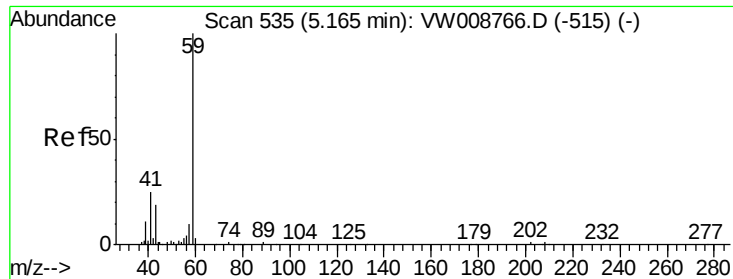
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200

0

Time-->

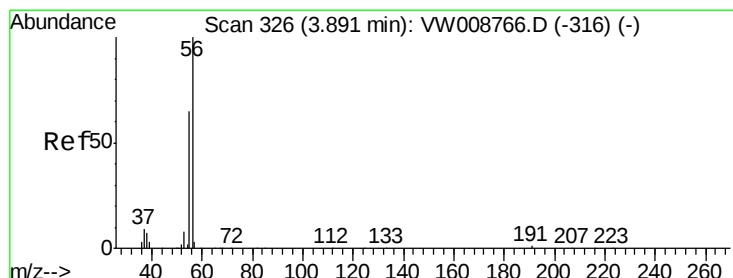
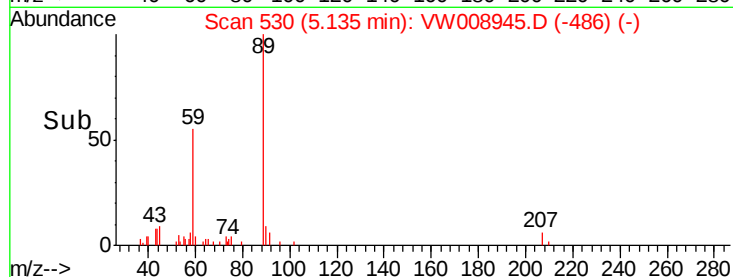
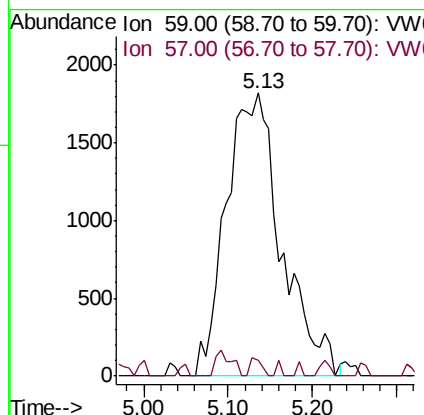
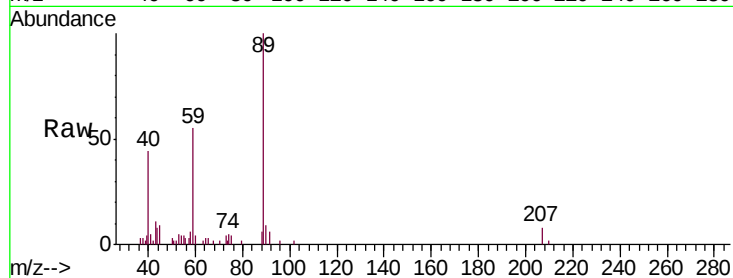




#11  
Tert butyl alcohol  
Concen: 30.975 ug/l  
RT: 5.13 min Scan# 530  
Delta R.T. -0.03 min  
Lab File: VW008945.D  
Acq: 02 Mar 2019 03:19

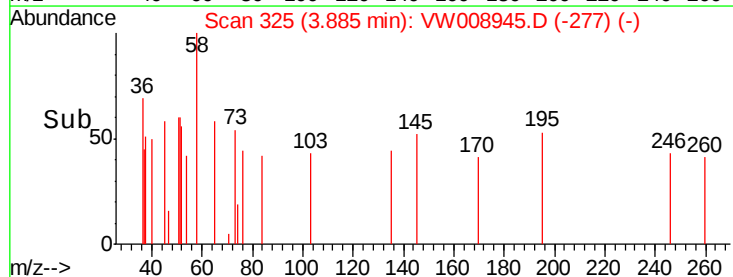
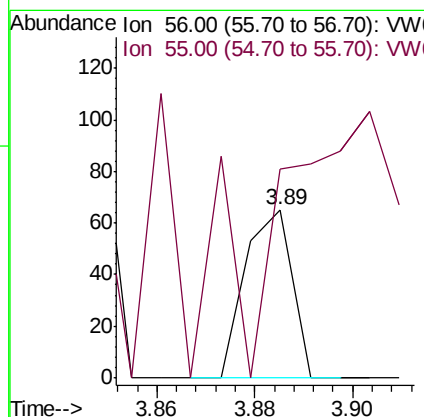
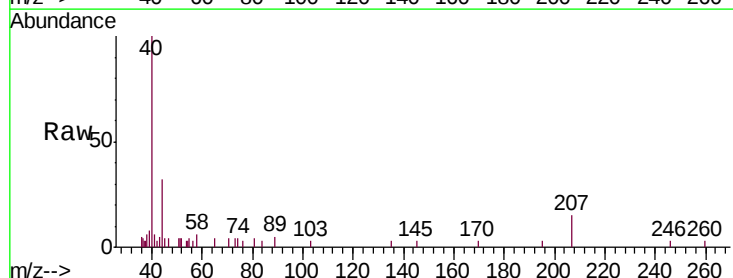
Instrument :  
MSVOA\_W  
ClientSampled :  
Z-3-11-BRE

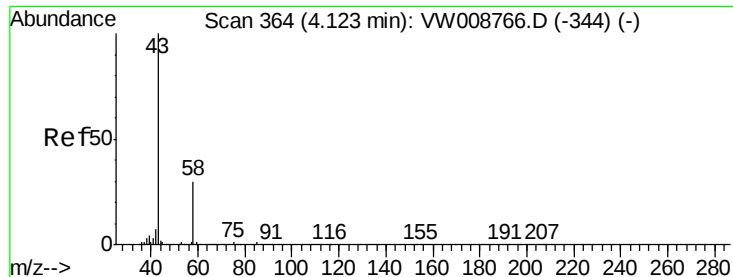
Tgt Ion: 59 Resp: 8157  
Ion Ratio Lower Upper  
59 100  
57 1.2 9.3 13.9#



#13  
Acrolein  
Concen: 19.922 ug/l  
RT: 3.89 min Scan# 325  
Delta R.T. -0.01 min  
Lab File: VW008945.D  
Acq: 02 Mar 2019 03:19

Tgt Ion: 56 Resp: 43  
Ion Ratio Lower Upper  
56 100  
55 411.6 56.9 85.3#

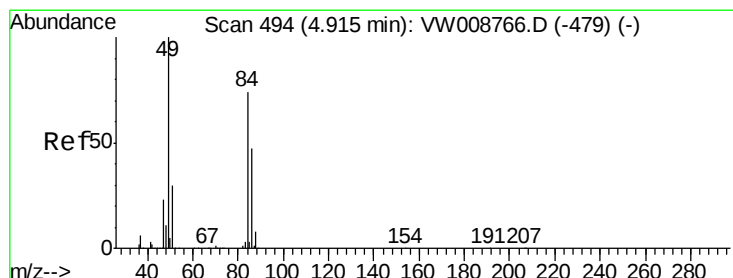
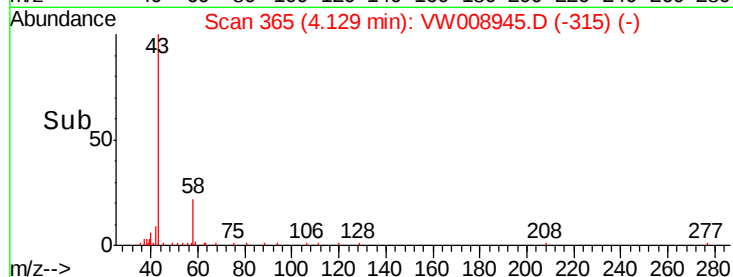
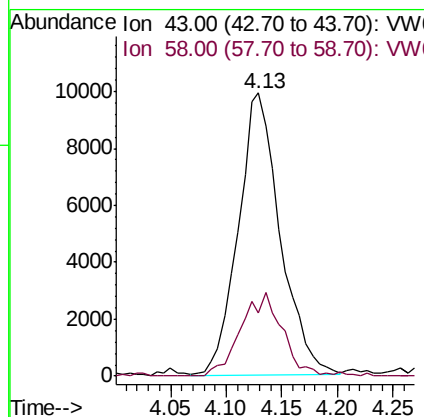
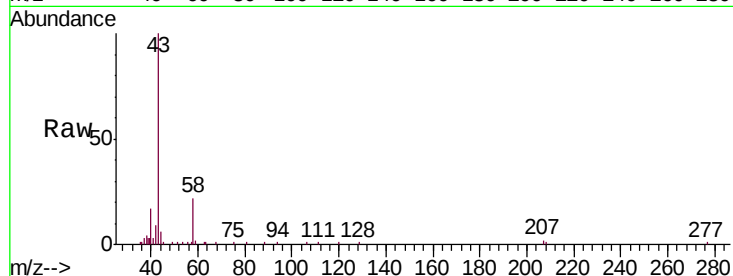




#16  
Acetone  
Concen: 37.774 ug/l  
RT: 4.13 min Scan# 365  
Delta R.T. 0.01 min  
Lab File: VW008945.D  
Acq: 02 Mar 2019 03:19

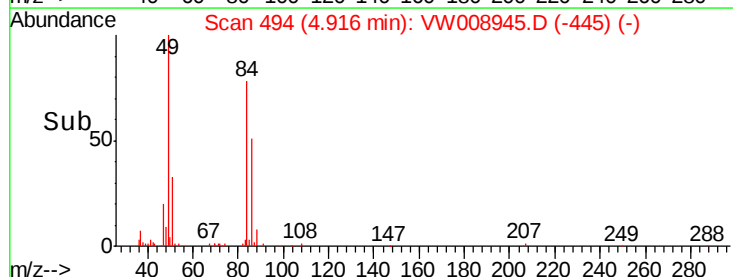
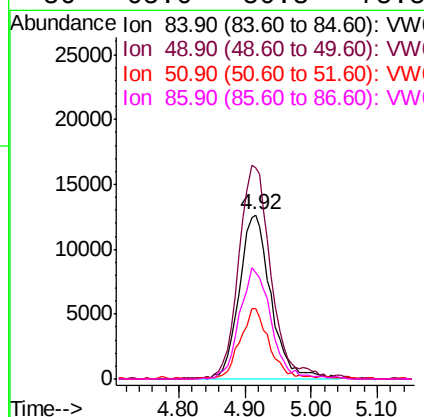
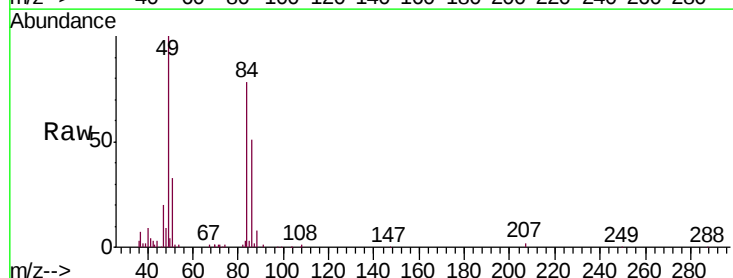
Instrument :  
MSVOA\_W  
ClientSampled :  
Z-3-11-BRE

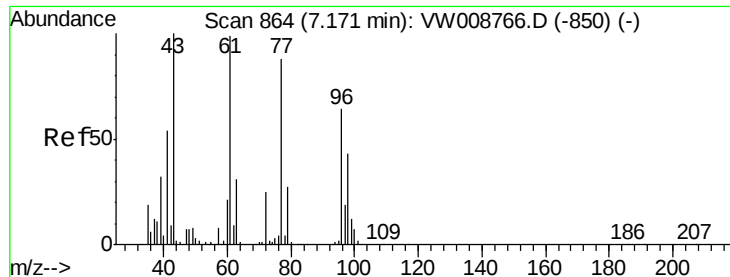
Tgt Ion: 43 Resp: 25899  
Ion Ratio Lower Upper  
43 100  
58 22.3 23.8 35.6#



#20  
Methylene Chloride  
Concen: 8.179 ug/l  
RT: 4.92 min Scan# 494  
Delta R.T. 0.00 min  
Lab File: VW008945.D  
Acq: 02 Mar 2019 03:19

Tgt Ion: 84 Resp: 42059  
Ion Ratio Lower Upper  
84 100  
49 128.0 108.2 162.2  
51 42.6 32.7 49.1  
86 65.0 50.3 75.5





#25

2-Butanone

Concen: 2.466 ug/l

RT: 7.13 min Scan# 858

Delta R.T. -0.04 min

Lab File: VW008945.D

Acq: 02 Mar 2019 03:19

Instrument :

MSVOA\_W

ClientSampleId :

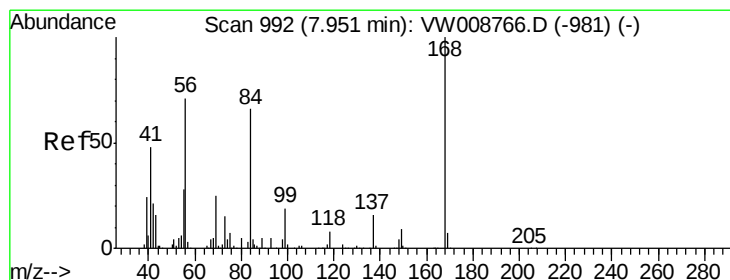
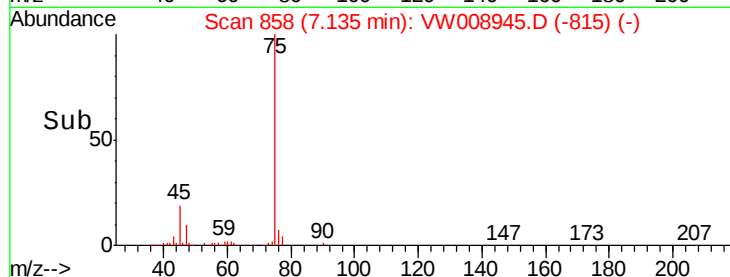
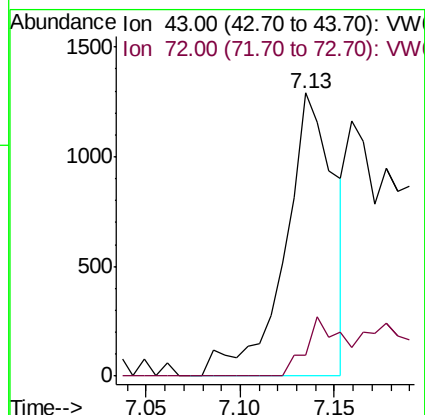
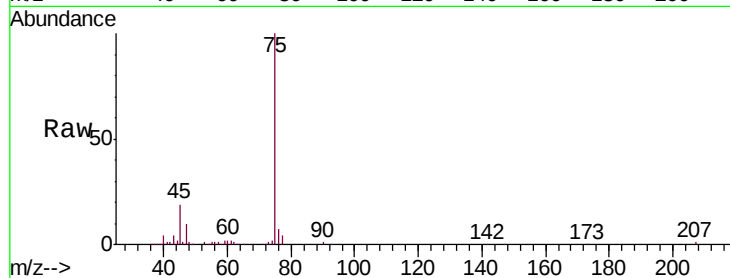
Z-3-11-BRE

Tgt Ion: 43 Resp: 2364

Ion Ratio Lower Upper

43 100

72 7.6 19.7 29.5#



#31

Cyclohexane

Concen: 1.283 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW008945.D

Acq: 02 Mar 2019 03:19

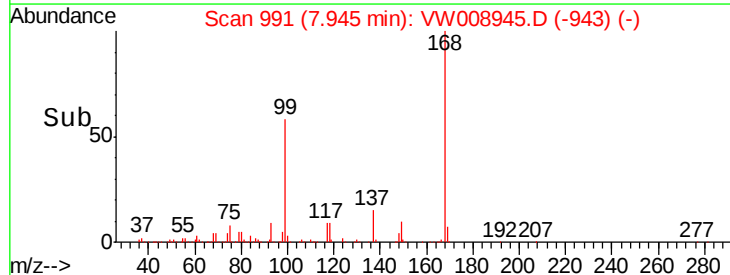
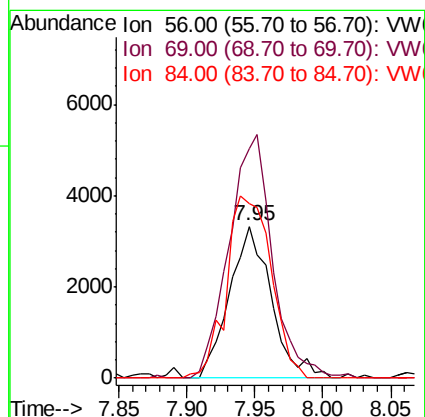
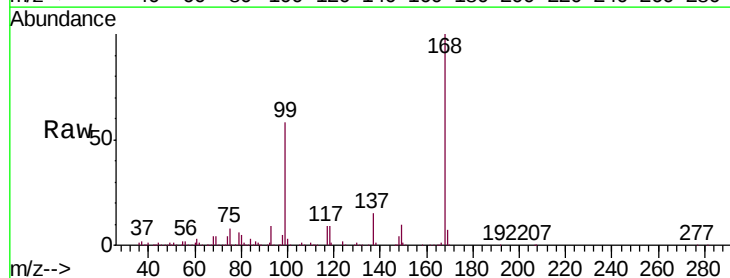
Tgt Ion: 56 Resp: 7152

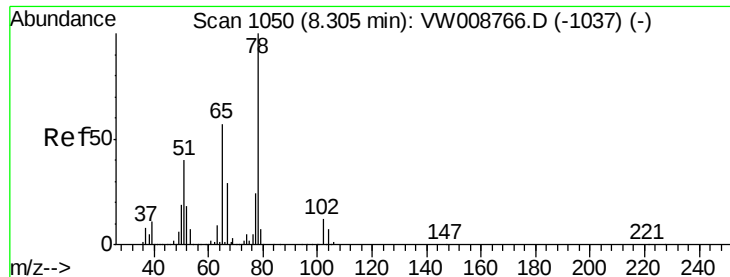
Ion Ratio Lower Upper

56 100

69 151.6 28.2 42.4#

84 115.1 74.1 111.1#

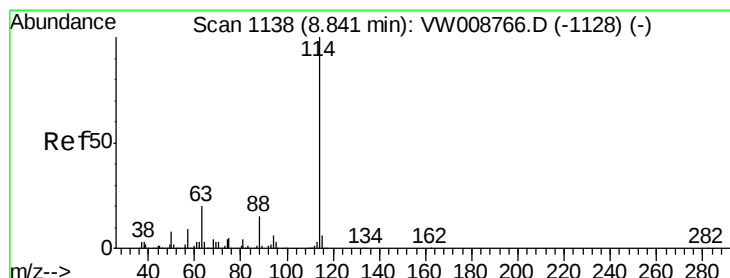
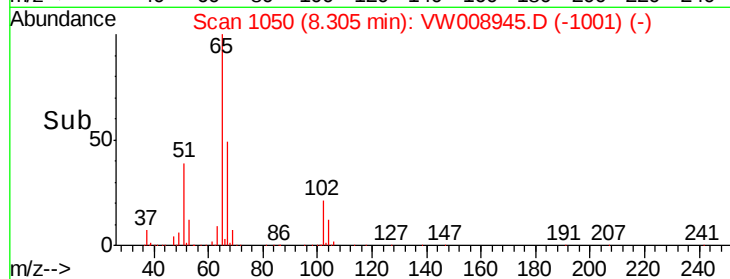
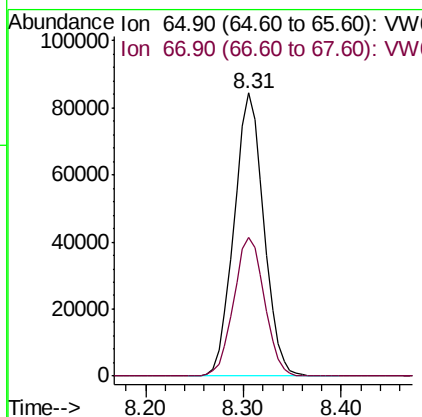
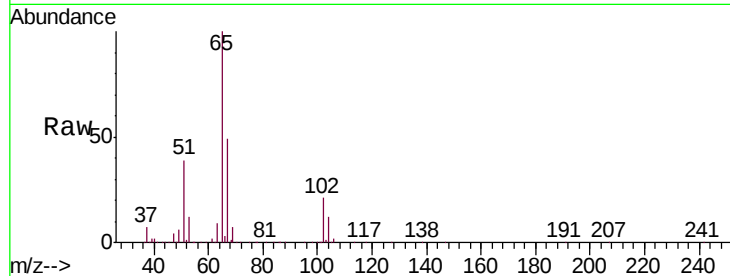




#33  
 1,2-Dichloroethane-d4  
 Concen: 60.323 ug/l  
 RT: 8.31 min Scan# 1050  
 Delta R.T. 0.00 min  
 Lab File: VW008945.D  
 Acq: 02 Mar 2019 03:19

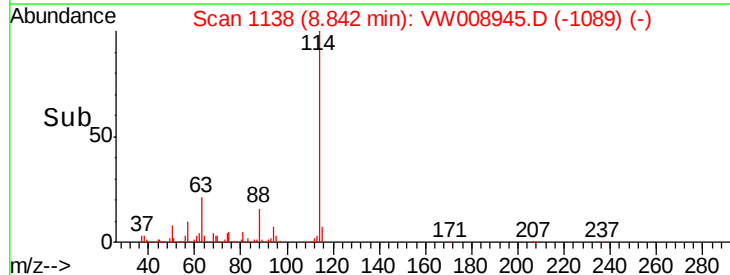
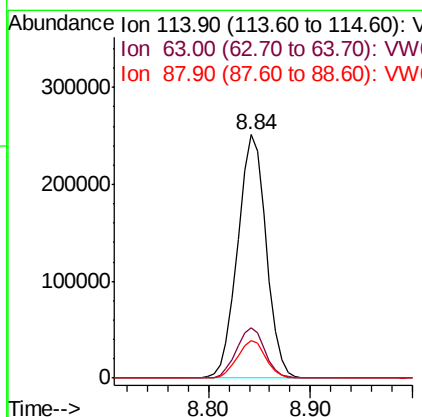
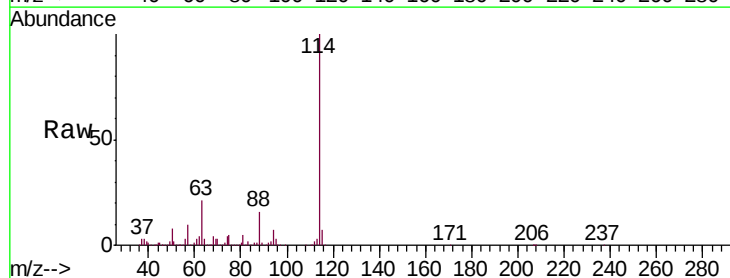
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 Z-3-11-BRE

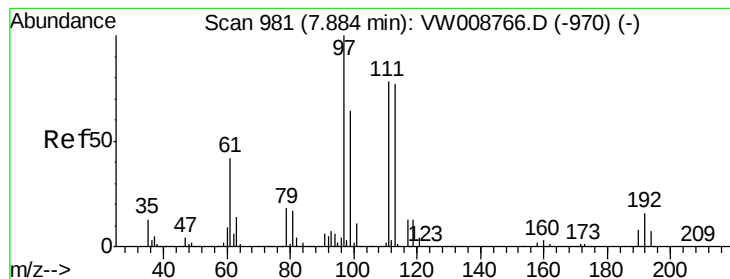
Tgt Ion: 65 Resp: 178435  
 Ion Ratio Lower Upper  
 65 100  
 67 50.8 0.0 101.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. 0.00 min  
 Lab File: VW008945.D  
 Acq: 02 Mar 2019 03:19

Tgt Ion: 114 Resp: 484490  
 Ion Ratio Lower Upper  
 114 100  
 63 20.7 0.0 40.8  
 88 15.6 0.0 30.4





#35

Dibromofluoromethane

Concen: 52.472 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.00 min

Lab File: VW008945.D

Acq: 02 Mar 2019 03:19

Instrument :

MSVOA\_W

ClientSampleId :

Z-3-11-BRE

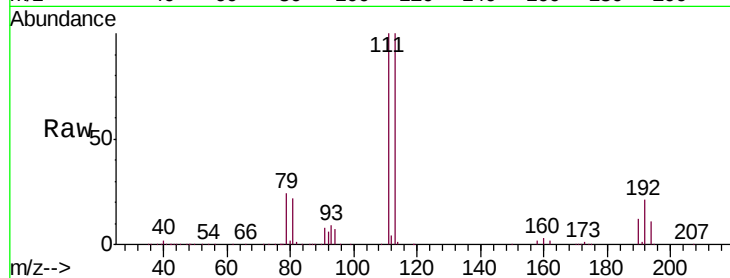
Tgt Ion:113 Resp: 152637

Ion Ratio Lower Upper

113 100

111 104.3 81.9 122.9

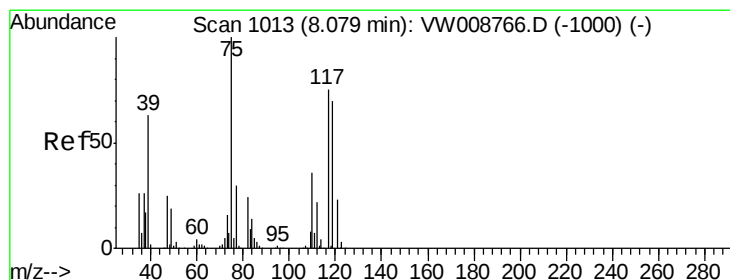
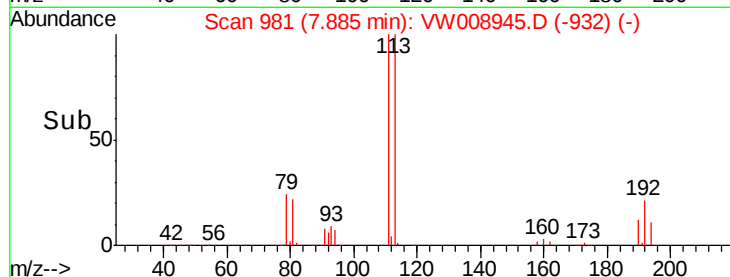
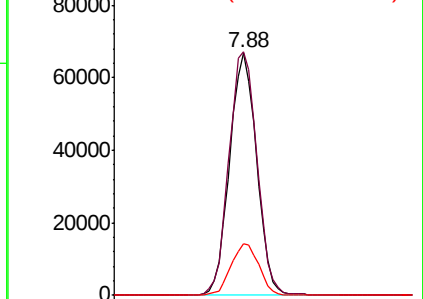
192 21.9 17.1 25.7



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: 5.157 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW008945.D

Acq: 02 Mar 2019 03:19

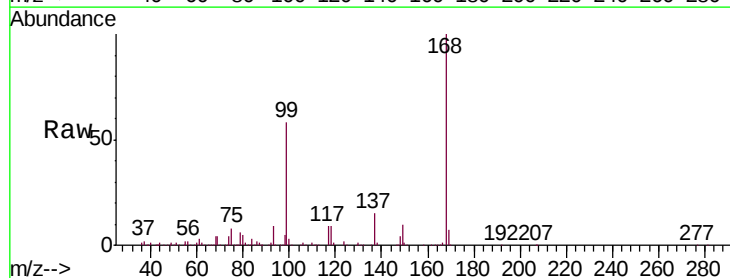
Tgt Ion: 75 Resp: 24320

Ion Ratio Lower Upper

75 100

110 9.1 17.5 52.6#

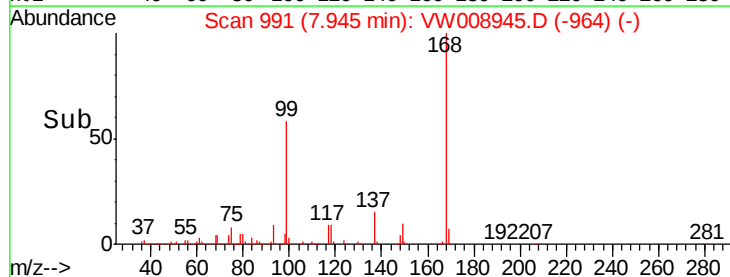
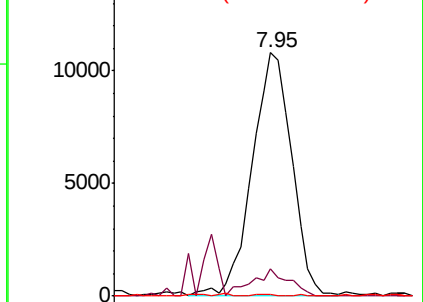
77 0.3 24.5 36.7#

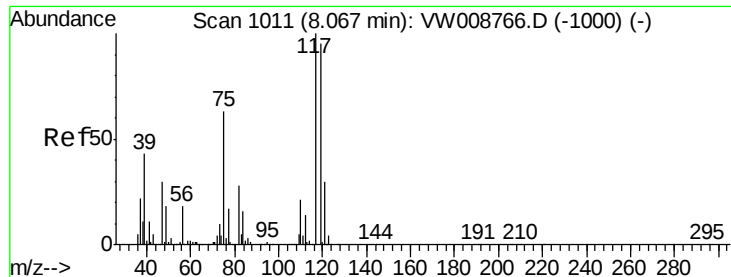


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW





#38

Carbon Tetrachloride

Concen: 6.052 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW008945.D

Acq: 02 Mar 2019 03:19

Instrument :

MSVOA\_W

ClientSampleId :

Z-3-11-BRE

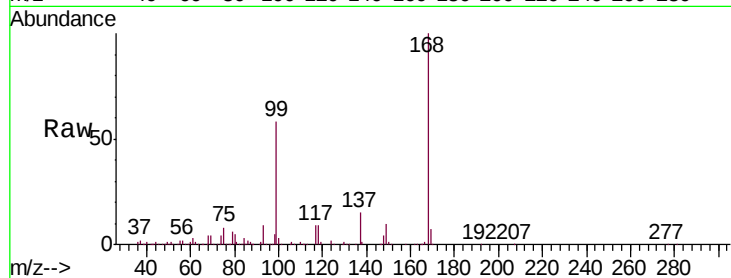
Tgt Ion:117 Resp: 30102

Ion Ratio Lower Upper

117 100

119 8.4 76.1 114.1#

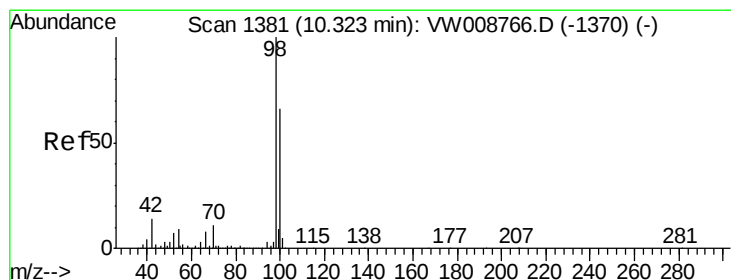
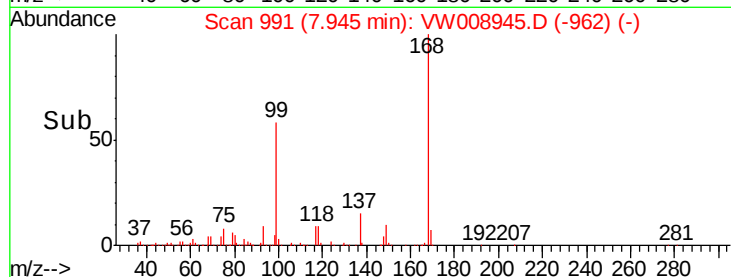
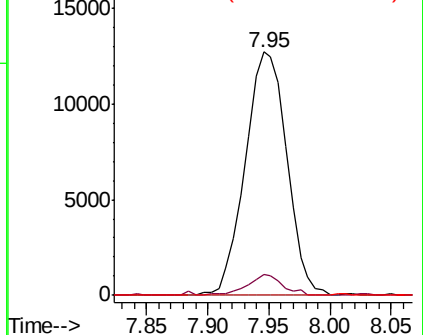
121 0.0 24.0 36.0#



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



#50

Toluene-d8

Concen: 51.907 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW008945.D

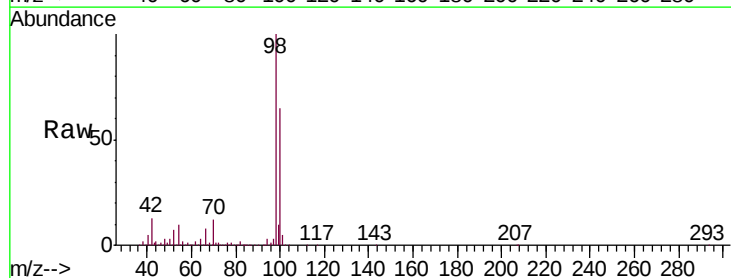
Acq: 02 Mar 2019 03:19

Tgt Ion: 98 Resp: 582886

Ion Ratio Lower Upper

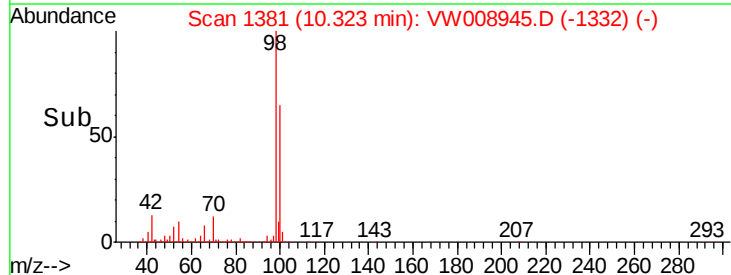
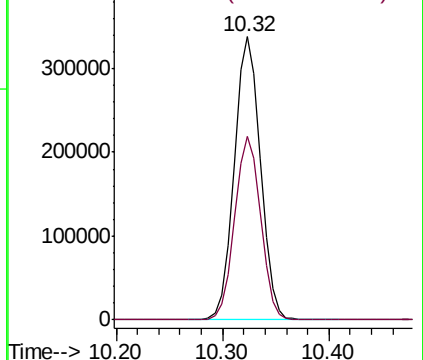
98 100

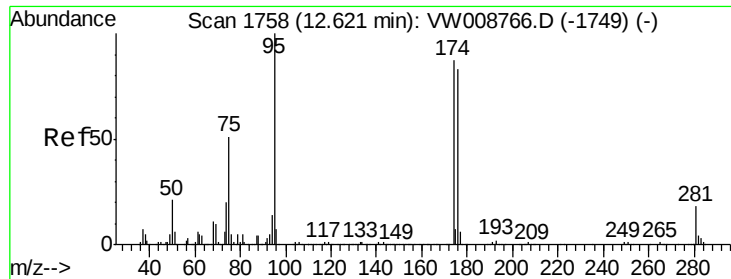
100 64.7 52.4 78.6



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW

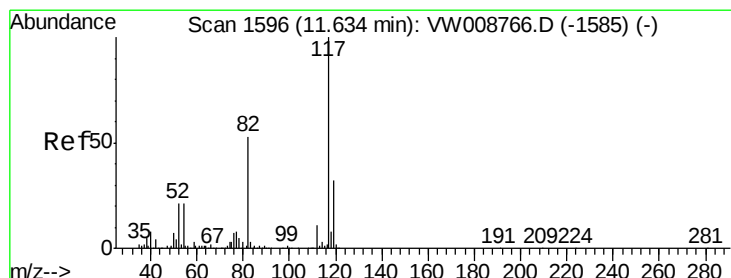
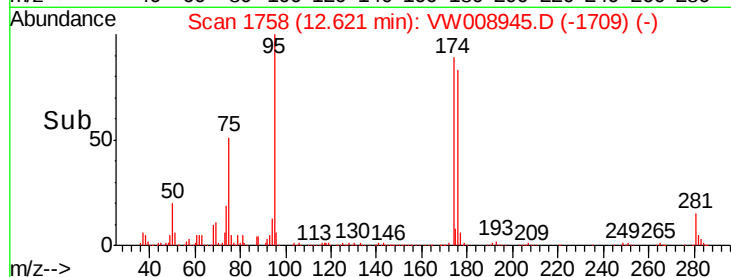
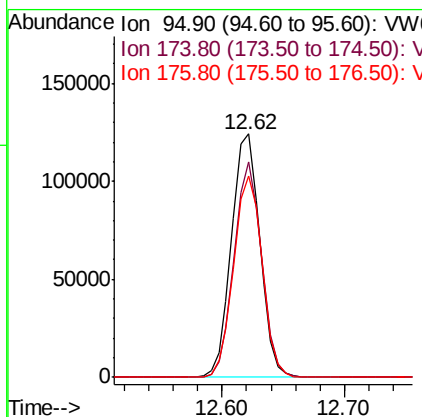
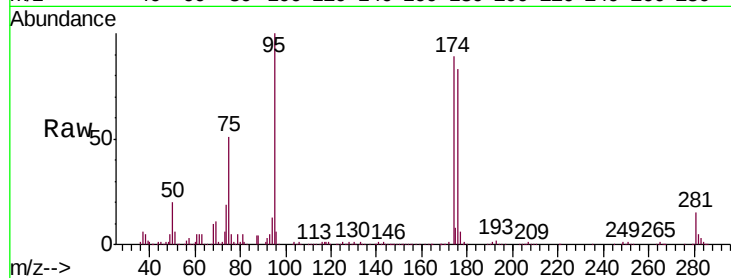




#62  
4-Bromofluorobenzene  
Concen: 45.331 ug/l  
RT: 12.62 min Scan# 1758  
Delta R.T. 0.00 min  
Lab File: VW008945.D  
Acq: 02 Mar 2019 03:19

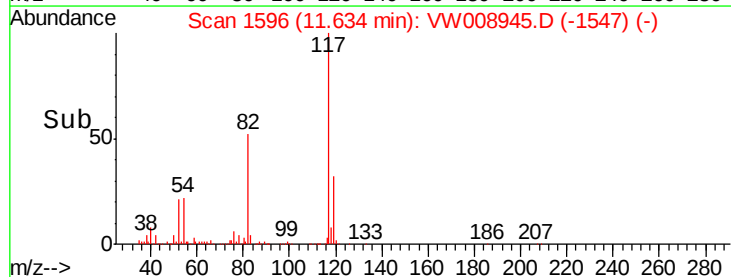
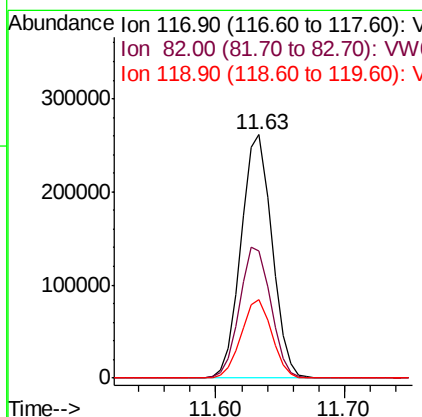
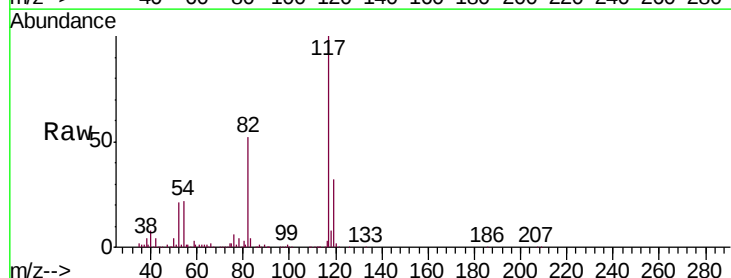
Instrument :  
MSVOA\_W  
ClientSampleId :  
Z-3-11-BRE

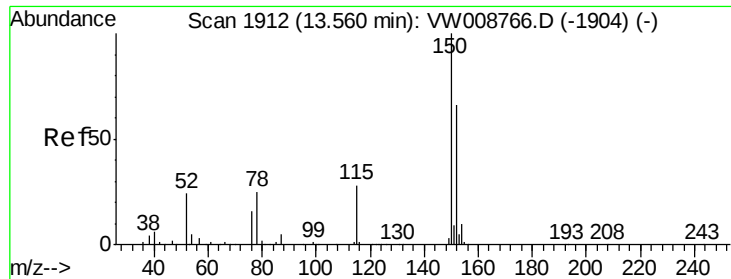
Tgt Ion: 95 Resp: 199308  
Ion Ratio Lower Upper  
95 100  
174 85.5 0.0 169.2  
176 82.8 0.0 163.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. 0.00 min  
Lab File: VW008945.D  
Acq: 02 Mar 2019 03:19

Tgt Ion: 117 Resp: 434654  
Ion Ratio Lower Upper  
117 100  
82 52.1 42.2 63.4  
119 32.0 25.9 38.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW008945.D

Acq: 02 Mar 2019 03:19

Instrument :

MSVOA\_W

ClientSampled :

Z-3-11-BRE

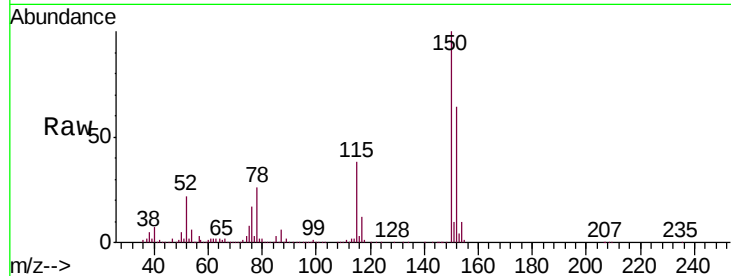
Tgt Ion: 152 Resp: 202392

Ion Ratio Lower Upper

152 100

115 58.2 28.6 85.8

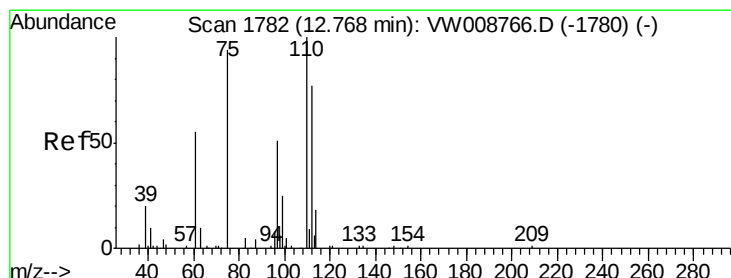
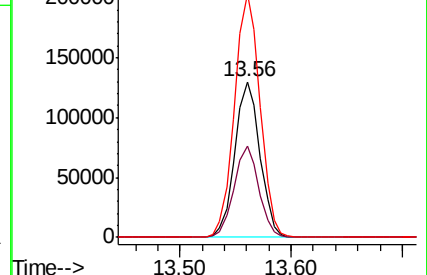
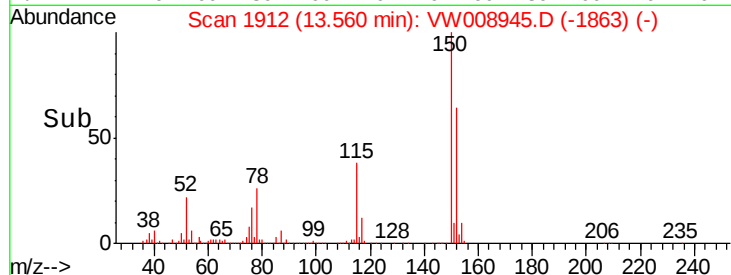
150 158.8 0.0 348.0



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: 62.157 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW008945.D

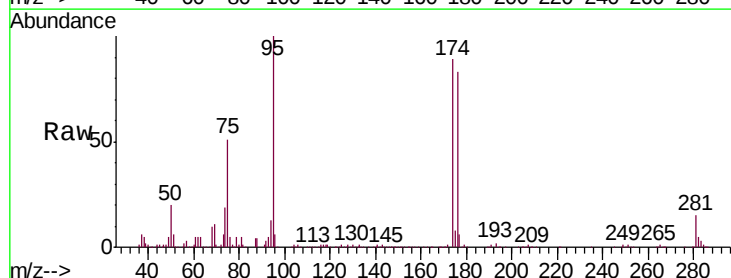
Acq: 02 Mar 2019 03:19

Tgt Ion: 75 Resp: 103866

Ion Ratio Lower Upper

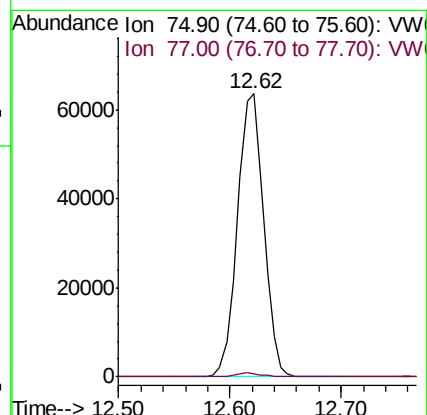
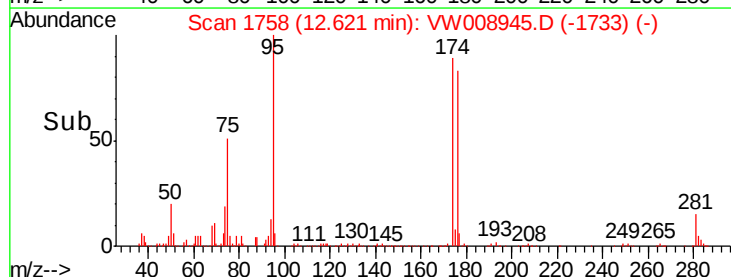
75 100

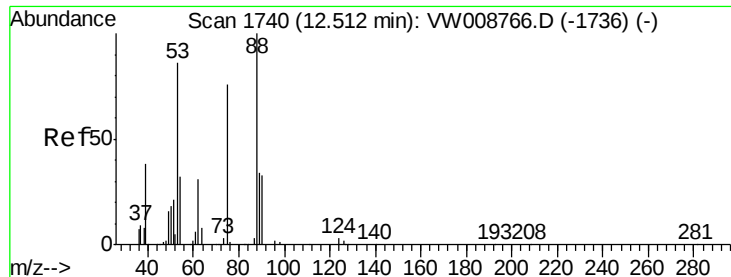
77 1.4 0.0 0.0#



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: 151.109 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW008945.D

Acq: 02 Mar 2019 03:19

Instrument :

MSVOA\_W

ClientSampleId :

Z-3-11-BRE

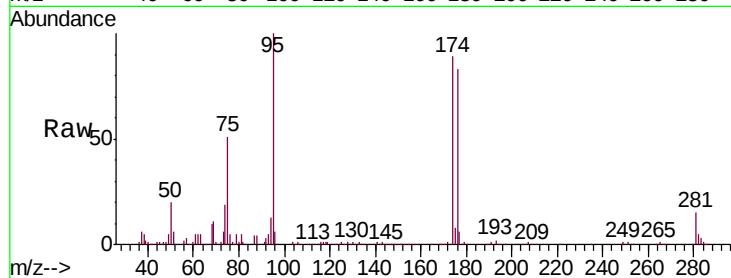
Tgt Ion: 75 Resp: 103866

Ion Ratio Lower Upper

75 100

53 0.0 88.2 132.2#

89 0.0 39.5 59.3#



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

