

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW062819\  
 Data File : VW011037.D  
 Acq On : 28 Jun 2019 01:21  
 Operator : SY/VA  
 Sample : K3509-01  
 Misc : 5.16G/5ML/MSVOA W/SOIL  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SA-06-062619-A

Quant Time: Jun 28 08:34:43 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W062819S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 28 01:55:46 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 74625    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 120564   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 83332    | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 27983    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.30  | 65   | 41927    | 42.98 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 85.96% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 30569    | 41.52 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 83.04% |          |
| 50) Toluene-d8              | 10.32 | 98   | 93559    | 30.87 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 61.74% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 32261    | 29.11 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 58.22% |          |

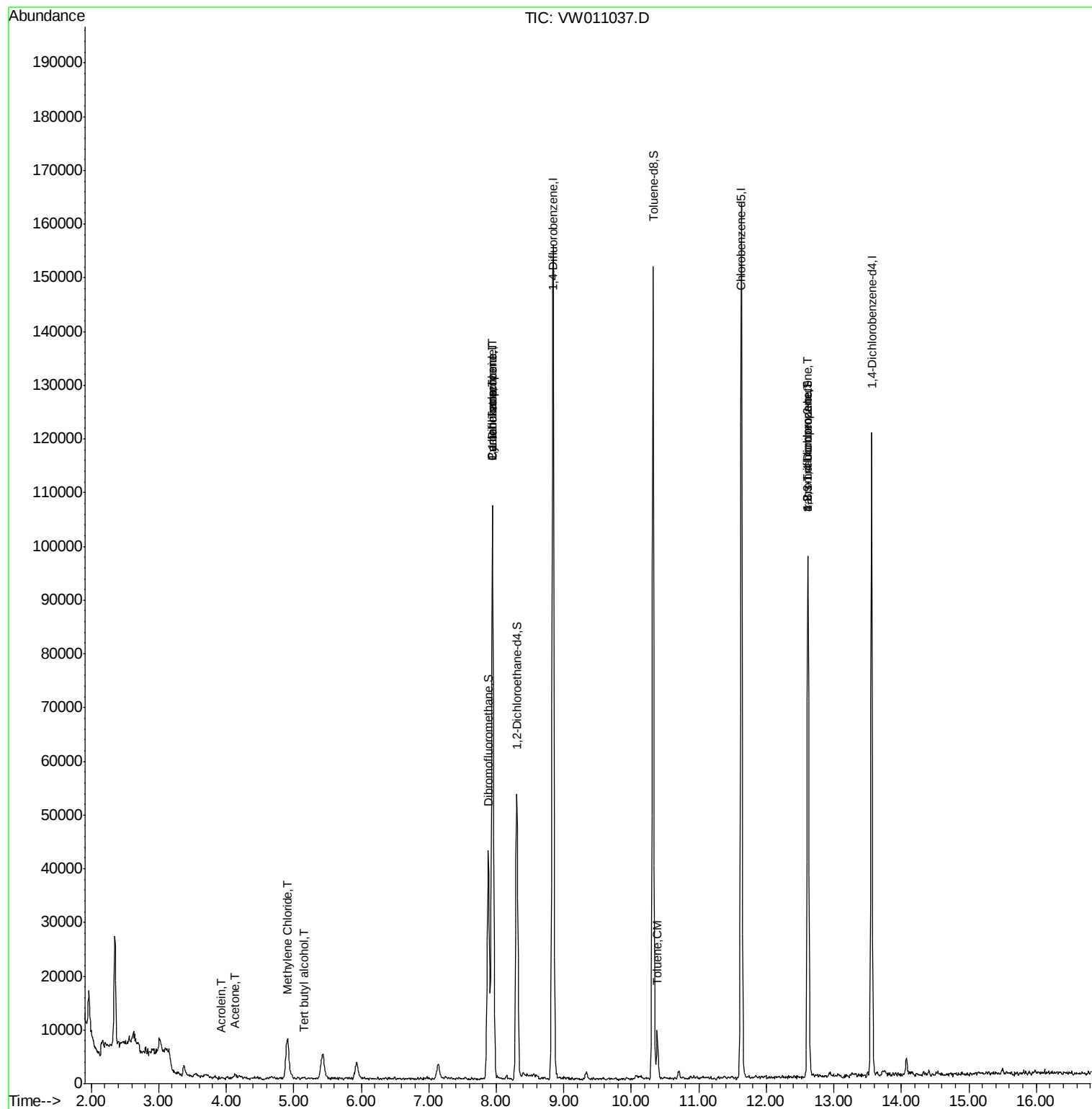
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 11) Tert butyl alcohol         | 5.17  | 59   | 97       | 1.369   | ug/l # | 71     |
| 13) Acrolein                   | 3.93  | 56   | 56       | 1.014   | ug/l # | 15     |
| 16) Acetone                    | 4.13  | 43   | 1626     | 6.828   | ug/l   | 96     |
| 20) Methylene Chloride         | 4.91  | 84   | 4850     | 5.013   | ug/l   | 89     |
| 31) Cyclohexane                | 7.95  | 56   | 2496     | 1.338   | ug/l # | 13     |
| 36) 1,1-Dichloropropene        | 7.94  | 75   | 6655     | 5.136   | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 7.94  | 117  | 7796     | 7.305   | ug/l # | 16     |
| 52) Toluene                    | 10.38 | 92   | 3292     | 1.509   | ug/l   | 97     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 17122    | 57.957  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 17122    | 117.301 | ug/l # | 3      |

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW062819\  
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Sample : K3509-01  
Misc : 5.16G/5ML/MSVOA W/SOIL  
ALS Vial : 28 Sample Multiplier: 1

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Quant Time: Jun 28 08:34:43 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W062819S.M  
Quant Title : SW846 8260  
QLast Update : Fri Jun 28 01:55:46 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: VW011037.D

Acq: 28 Jun 2019 01:21

Instrument :

MSVOA\_W

ClientSampleId :

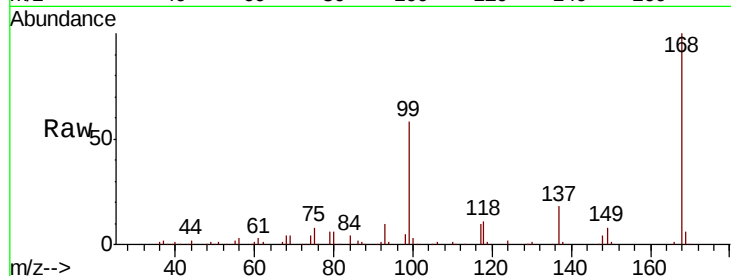
SA-06-062619-A

Tot Ion:168 Resp: 74625

Ion Ratio Lower Upper

168 100

99 57.9 47.8 71.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

40000

30000

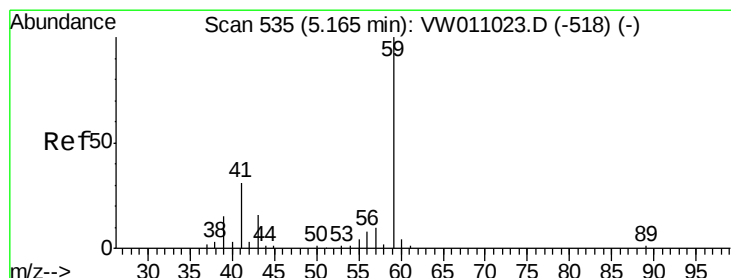
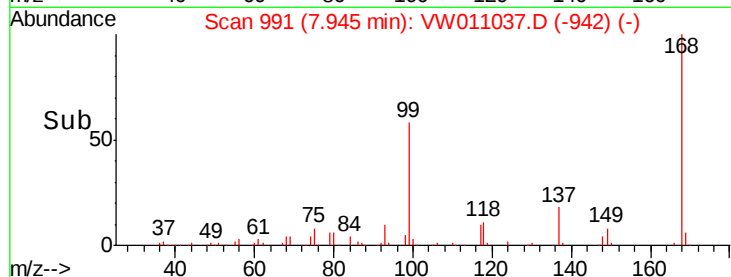
20000

10000

0

7.90 8.00 8.10

Time-->



#11

Tert butyl alcohol

Concen: 1.369 ug/l

RT: 5.17 min Scan# 535

Delta R.T. -0.00 min

Lab File: VW011037.D

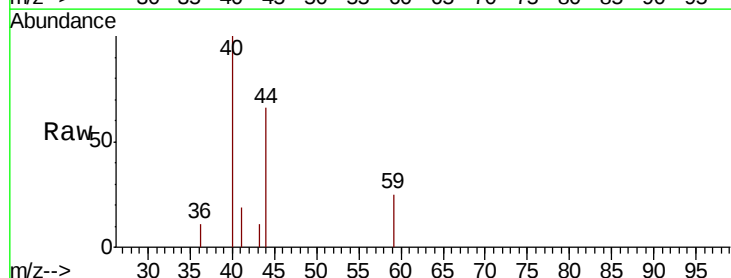
Acq: 28 Jun 2019 01:21

Tgt Ion: 59 Resp: 97

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.4#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.17

150

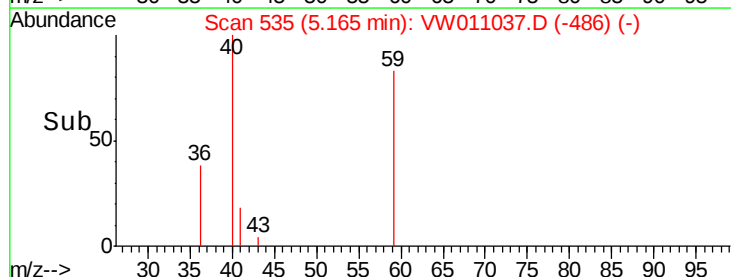
100

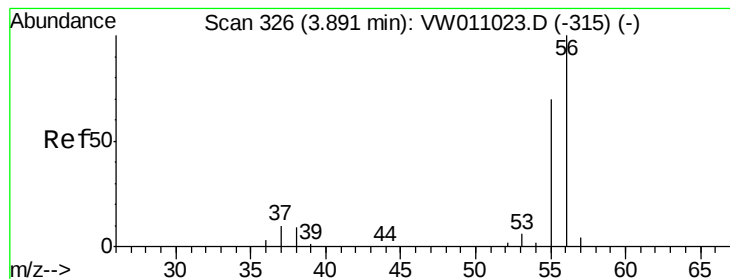
50

0

5.14 5.16 5.18

Time-->





#13

Acrolein

Concen: 1.014 ug/l

RT: 3.93 min Scan# 332

Delta R.T. 0.04 min

Lab File: VW011037.D

Acq: 28 Jun 2019 01:21

Instrument :

MSVOA\_W

ClientSampleId :

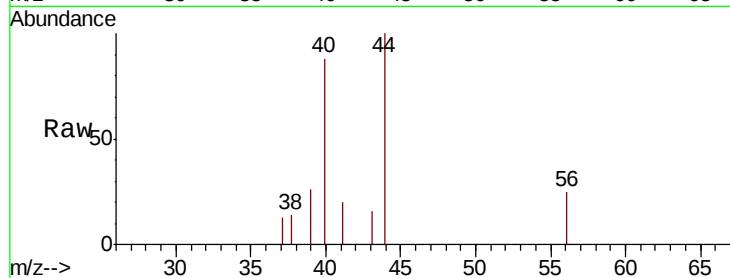
SA-06-062619-A

Tot Ion: 56 Resp: 56

Ion Ratio Lower Upper

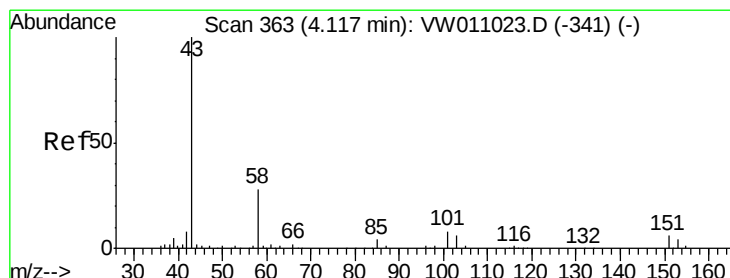
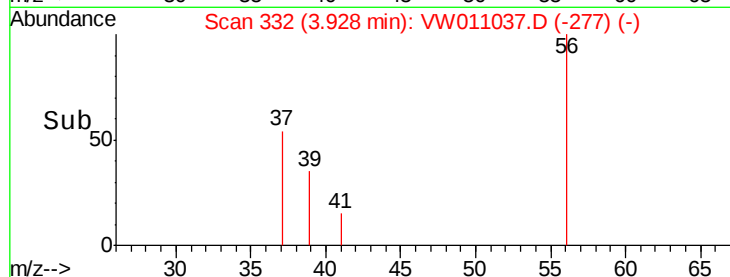
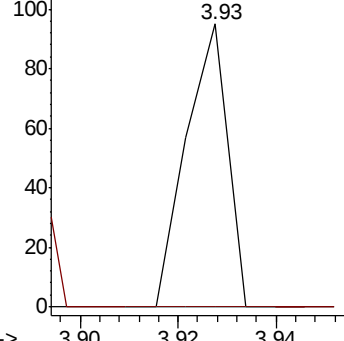
56 100

55 0.0 55.7 83.5#



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW



#16

Acetone

Concen: 6.828 ug/l

RT: 4.13 min Scan# 366

Delta R.T. 0.02 min

Lab File: VW011037.D

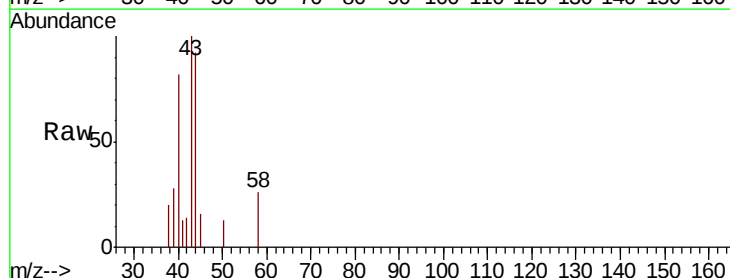
Acq: 28 Jun 2019 01:21

Tgt Ion: 43 Resp: 1626

Ion Ratio Lower Upper

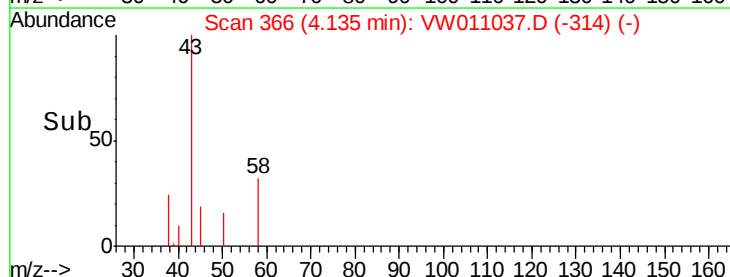
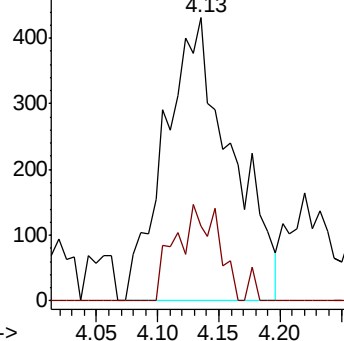
43 100

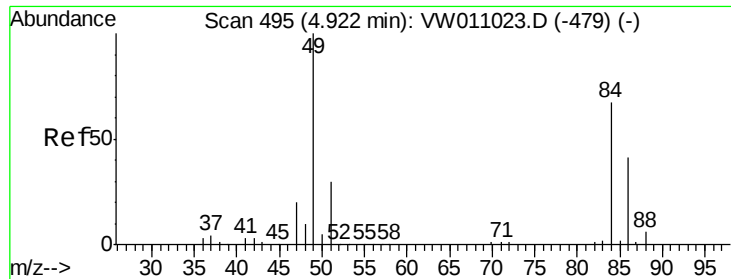
58 26.2 22.5 33.7



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

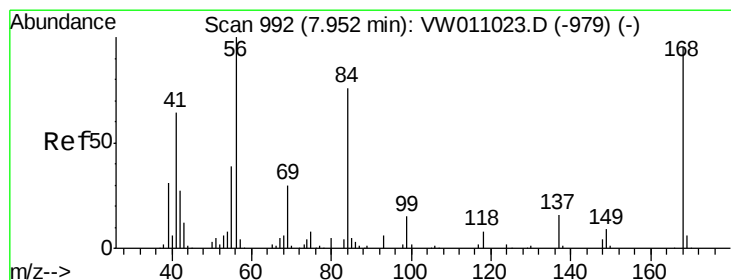
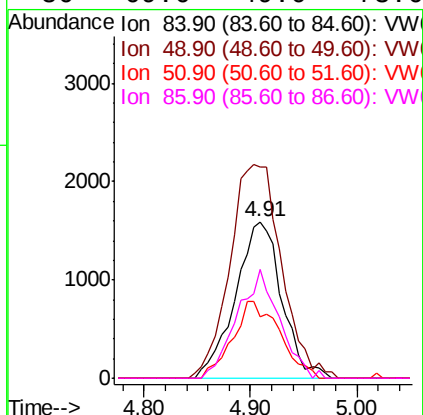
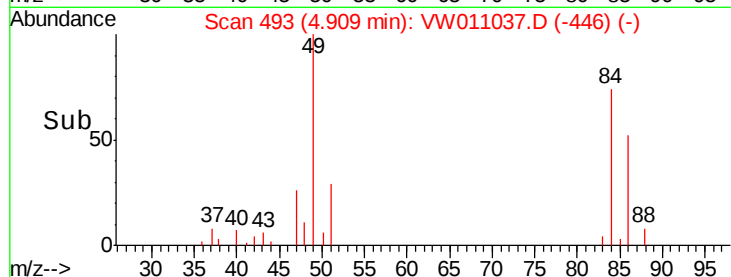
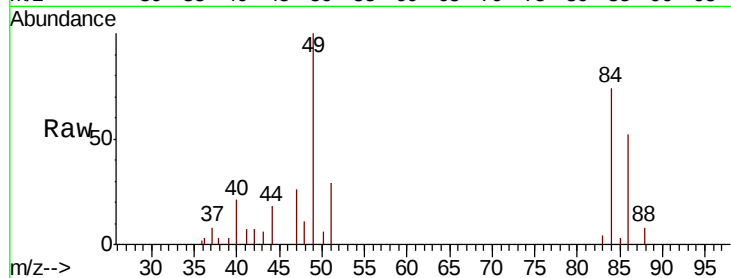




#20  
Methvlene Chloride  
Concen: 5.013 ug/l  
RT: 4.91 min Scan# 493  
Delta R.T. -0.01 min  
Lab File: VW011037.D  
Acq: 28 Jun 2019 01:21

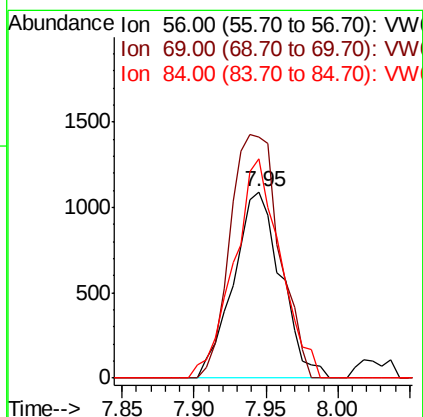
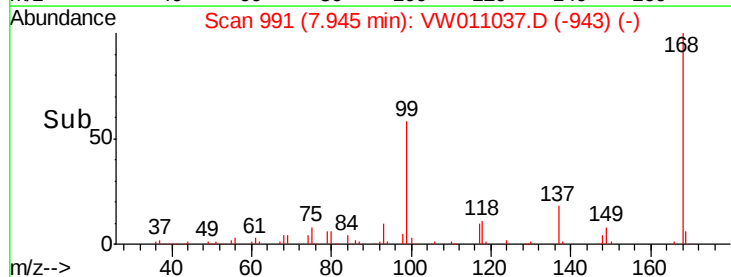
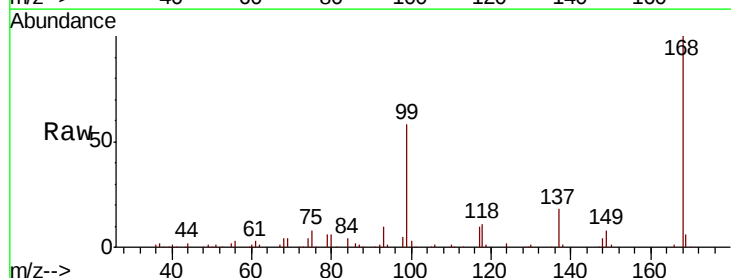
Instrument :  
MSVOA\_W  
ClientSampleId :  
SA-06-062619-A

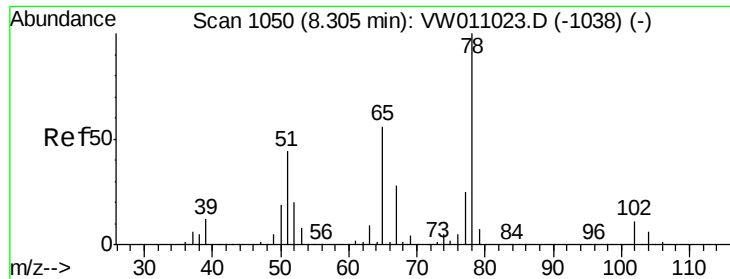
| Tot Ion: | 84    | Resp: | 4850  |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 134.8 | 119.6 | 179.4 |
| 51       | 38.9  | 35.6  | 53.4  |
| 86       | 69.6  | 49.0  | 73.6  |



#31  
Cyclohexane  
Concen: 1.338 ug/l  
RT: 7.95 min Scan# 991  
Delta R.T. -0.01 min  
Lab File: VW011037.D  
Acq: 28 Jun 2019 01:21

| Tgt Ion: | 56    | Resp: | 2496  |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 69       | 129.8 | 24.2  | 36.2# |
| 84       | 117.8 | 60.6  | 90.8# |

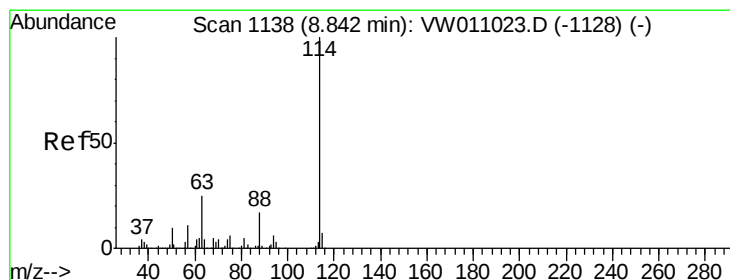
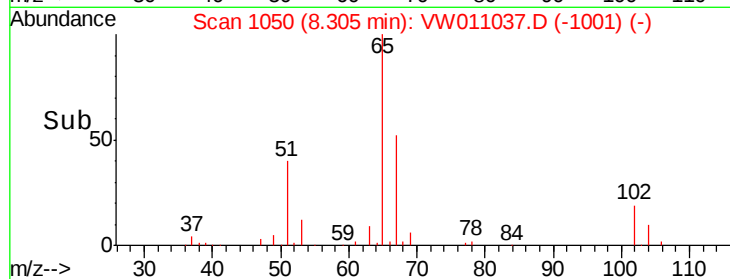
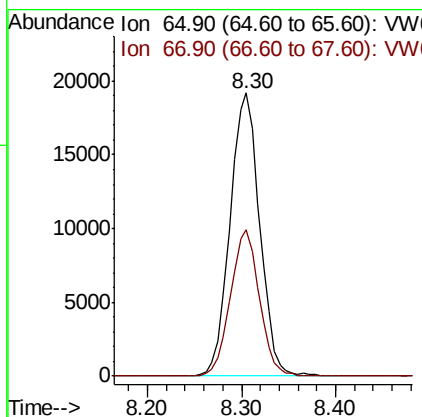
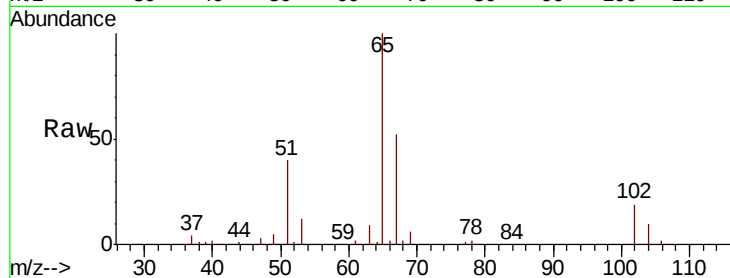




#33  
 1,2-Dichloroethane-d4  
 Concen: 42.978 ug/l  
 RT: 8.30 min Scan# 1050  
 Delta R.T. -0.00 min  
 Lab File: VW011037.D  
 Acq: 28 Jun 2019 01:21

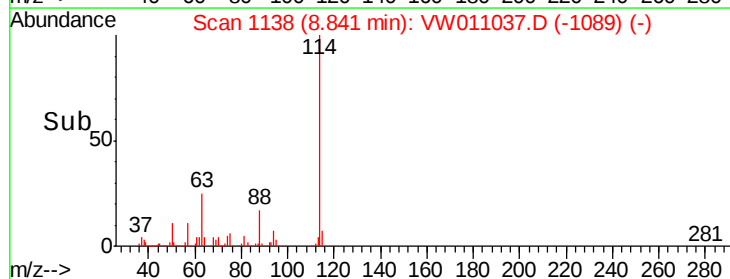
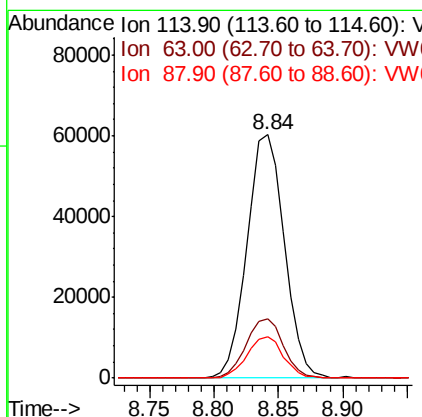
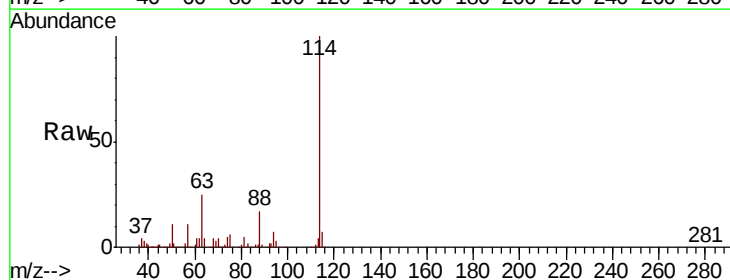
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SA-06-062619-A

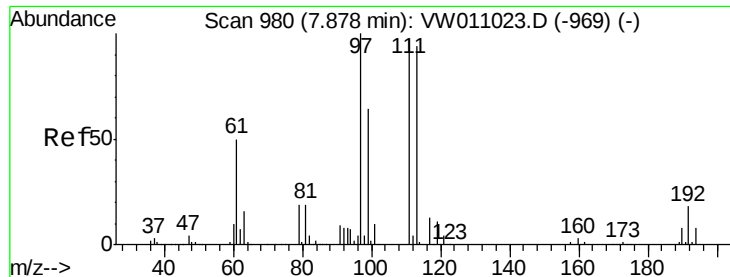
Tot Ion: 65 Resp: 41927  
 Ion Ratio Lower Upper  
 65 100  
 67 50.6 0.0 102.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. -0.00 min  
 Lab File: VW011037.D  
 Acq: 28 Jun 2019 01:21

Tgt Ion: 114 Resp: 120564  
 Ion Ratio Lower Upper  
 114 100  
 63 24.5 0.0 50.6  
 88 17.1 0.0 34.0





#35

Dibromofluoromethane

Concen: 41.522 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.01 min

Lab File: VW011037.D

Acq: 28 Jun 2019 01:21

Instrument :

MSVOA\_W

ClientSampleId :

SA-06-062619-A

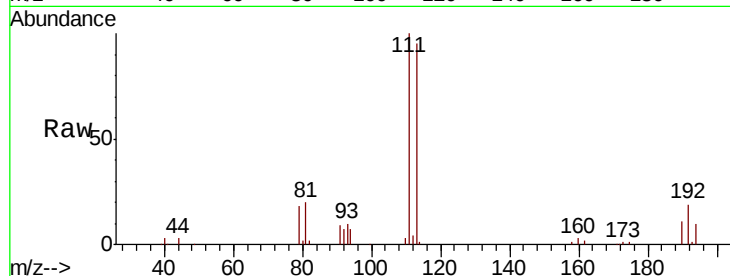
Tot Ion:113 Resp: 30569

Ion Ratio Lower Upper

113 100

111 103.0 83.8 125.6

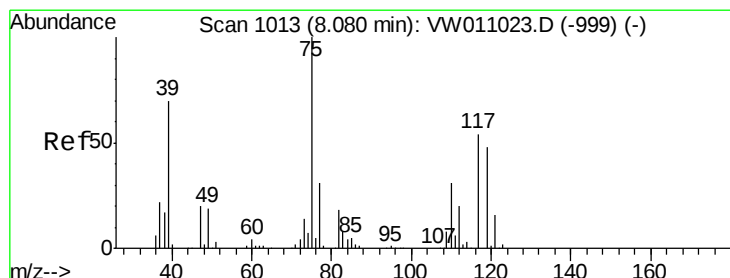
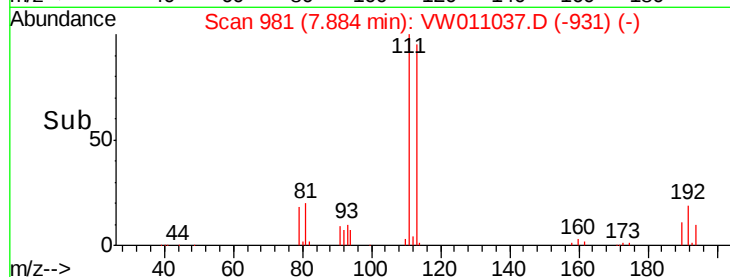
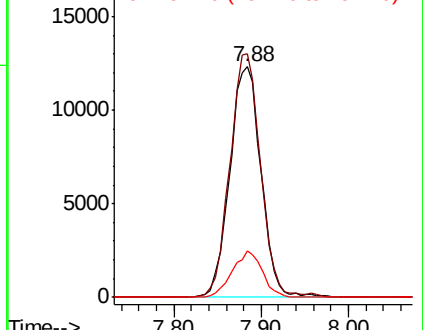
192 19.3 16.0 24.0



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: 5.136 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.14 min

Lab File: VW011037.D

Acq: 28 Jun 2019 01:21

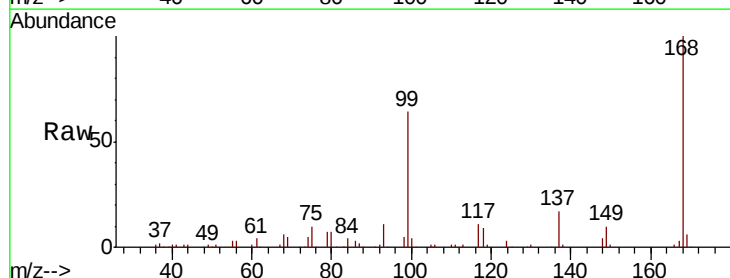
Tgt Ion: 75 Resp: 6655

Ion Ratio Lower Upper

75 100

110 8.5 15.5 46.5#

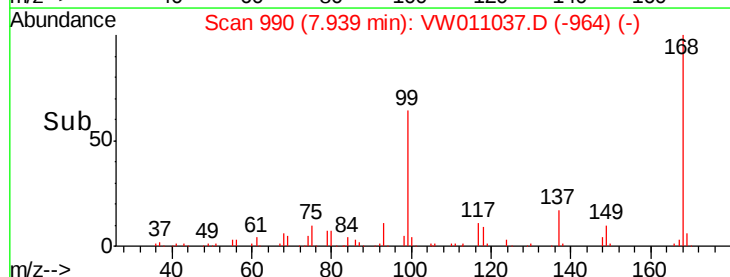
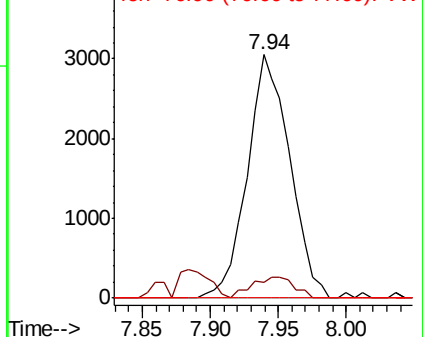
77 0.0 24.9 37.3#

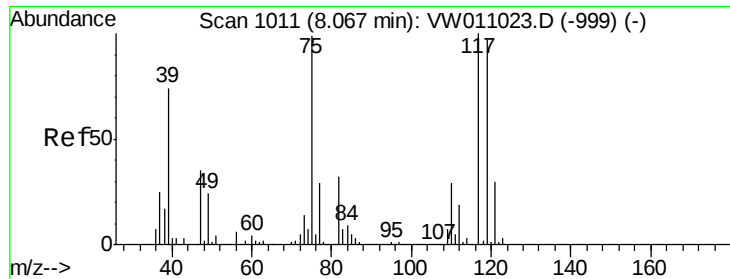


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW





#38

Carbon Tetrachloride

Concen: 7.305 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.13 min

Lab File: VW011037.D

Acq: 28 Jun 2019 01:21

Instrument :

MSVOA\_W

ClientSampleId :

SA-06-062619-A

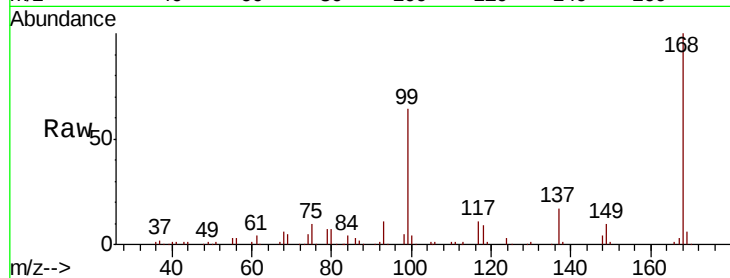
Tot Ion:117 Resp: 7796

Ion Ratio Lower Upper

117 100

119 5.7 77.7 116.5#

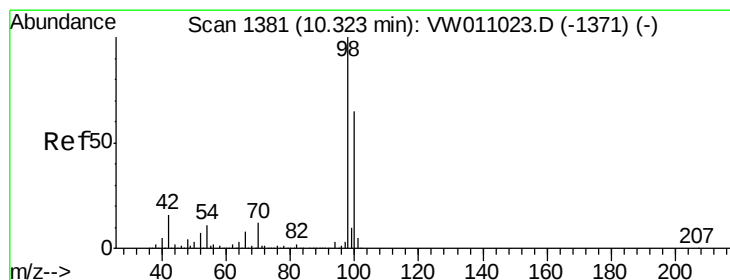
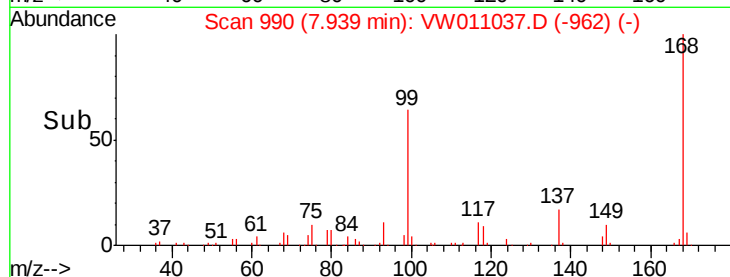
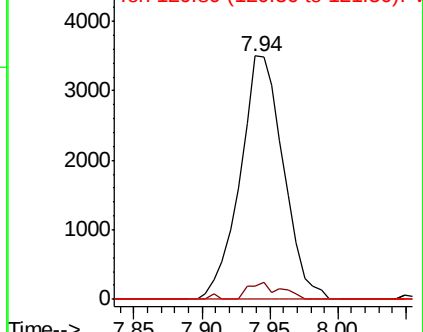
121 0.0 23.9 35.9#



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: 30.873 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW011037.D

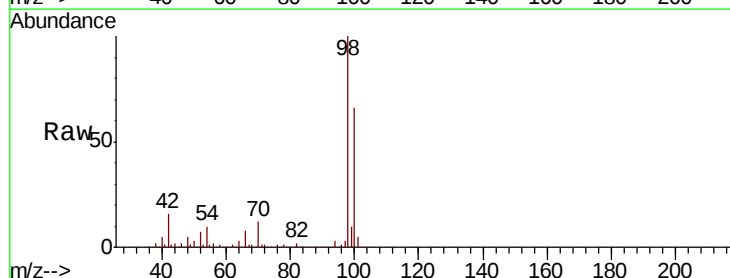
Acq: 28 Jun 2019 01:21

Tgt Ion: 98 Resp: 93559

Ion Ratio Lower Upper

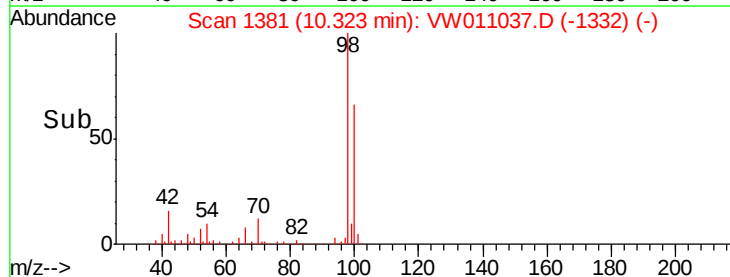
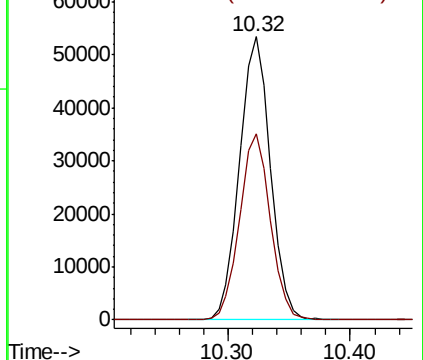
98 100

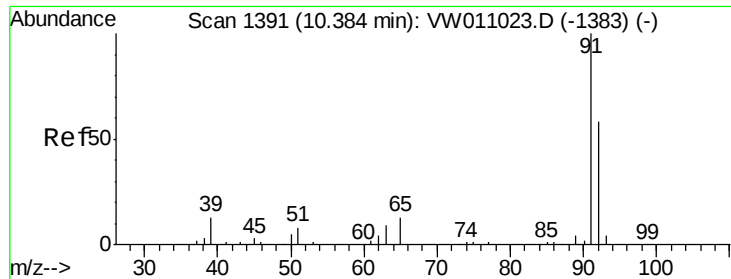
100 65.5 52.3 78.5



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#52

Toluene

Concen: 1.509 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VW011037.D

Acq: 28 Jun 2019 01:21

Instrument :

MSVOA\_W

ClientSampleId :

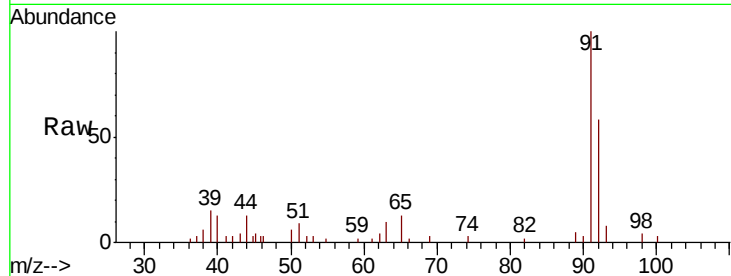
SA-06-062619-A

Tot Ion: 92 Resp: 3292

Ion Ratio Lower Upper

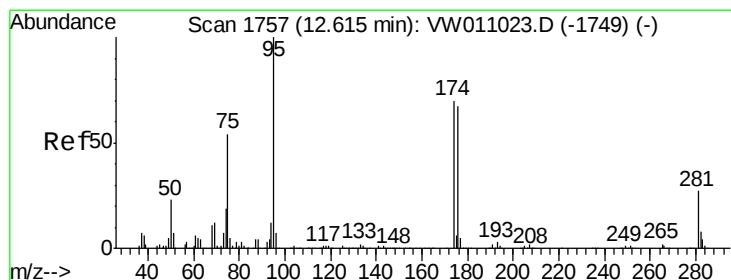
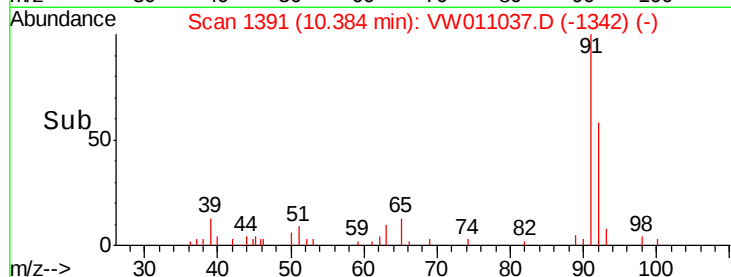
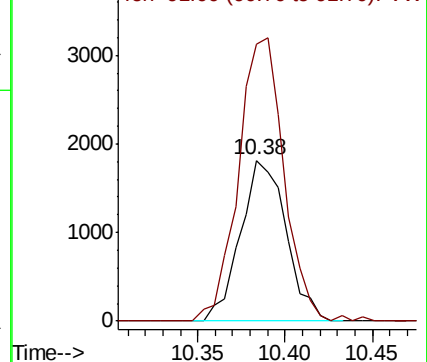
92 100

91 174.7 136.9 205.3



Abundance Ion 92.00 (91.70 to 92.70): VW

Ion 91.00 (90.70 to 91.70): VW



#62

4-Bromofluorobenzene

Concen: 29.106 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.01 min

Lab File: VW011037.D

Acq: 28 Jun 2019 01:21

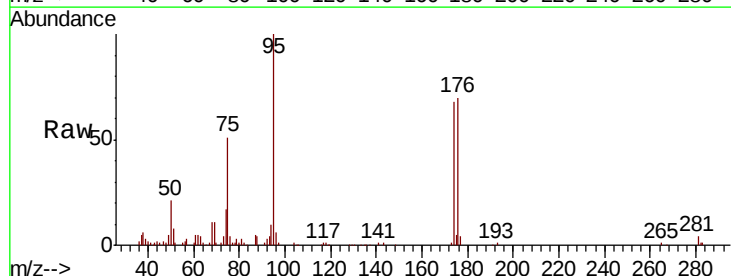
Tgt Ion: 95 Resp: 32261

Ion Ratio Lower Upper

95 100

174 70.1 0.0 149.2

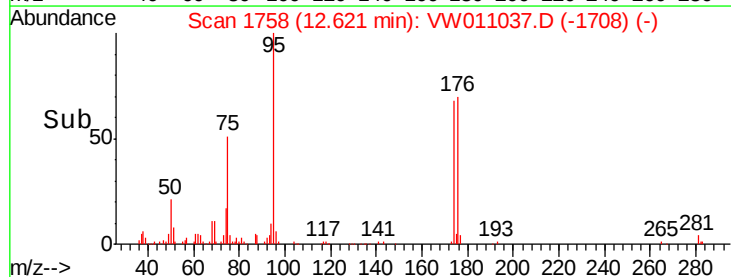
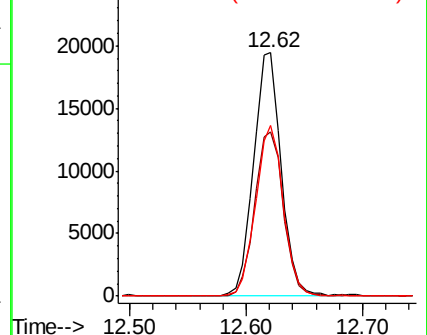
176 70.2 0.0 143.6

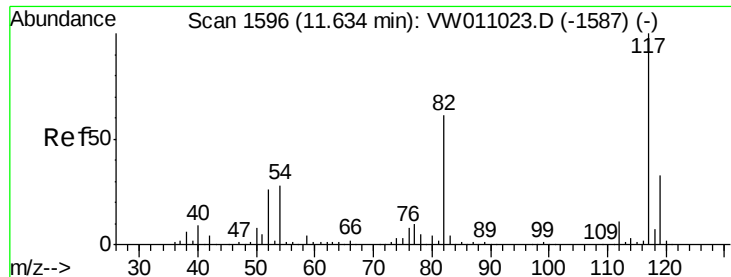


Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

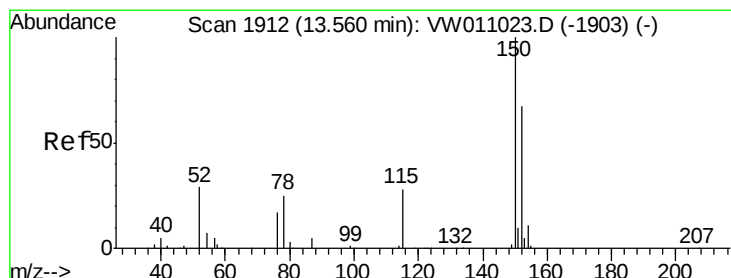
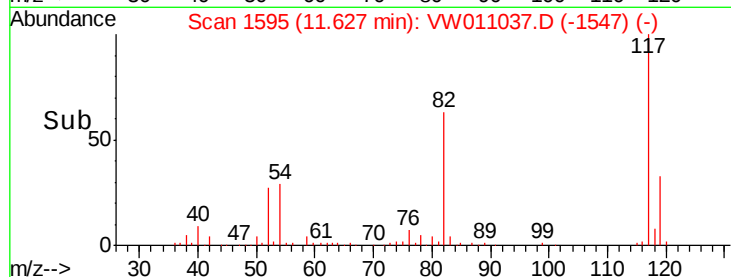
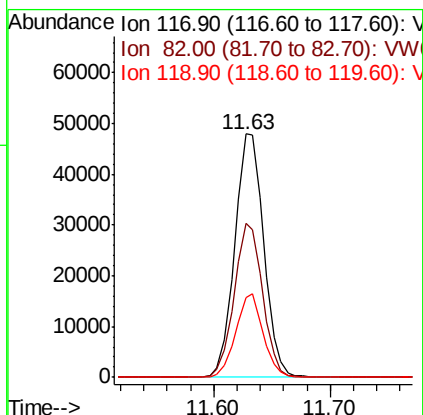
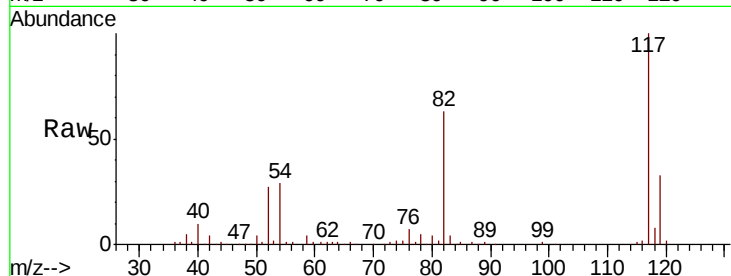




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1595  
Delta R.T. -0.01 min  
Lab File: VW011037.D  
Acq: 28 Jun 2019 01:21

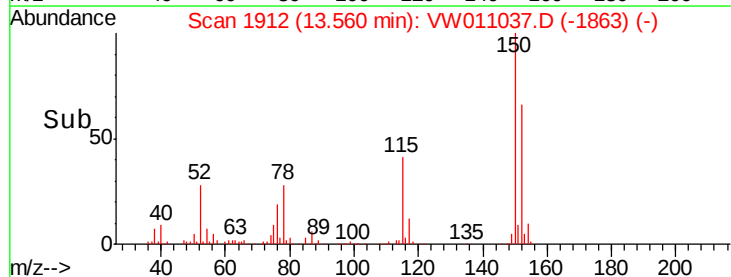
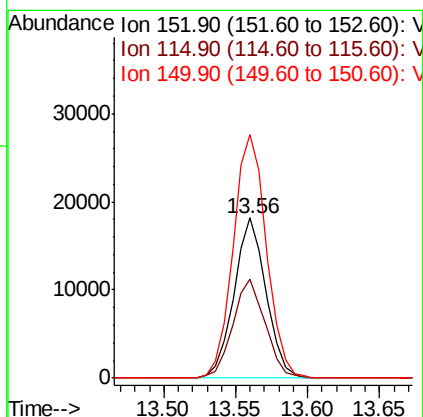
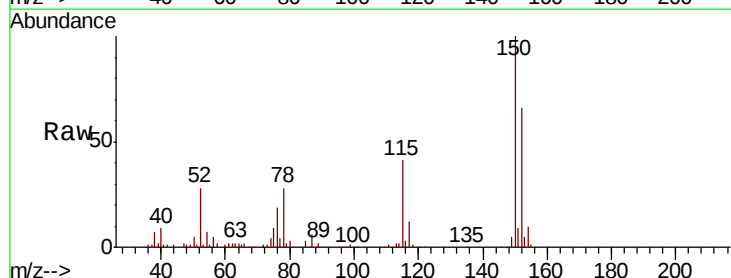
Instrument :  
MSVOA\_W  
ClientSampleId :  
SA-06-062619-A

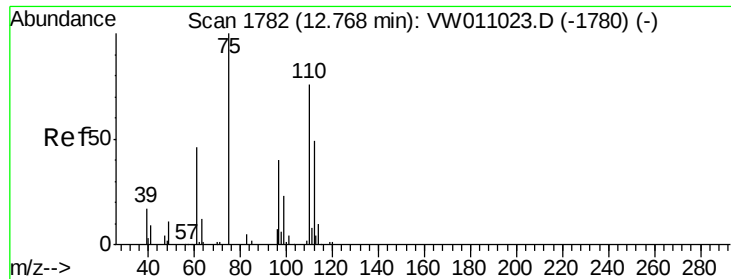
Tot Ion:117 Resp: 83332  
Ion Ratio Lower Upper  
117 100  
82 63.2 48.6 73.0  
119 32.7 26.1 39.1



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. -0.00 min  
Lab File: VW011037.D  
Acq: 28 Jun 2019 01:21

Tgt Ion:152 Resp: 27983  
Ion Ratio Lower Upper  
152 100  
115 63.1 30.7 92.1  
150 158.7 0.0 341.8





#76

1,2,3-Trichloropropane

Concen: 57.957 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW011037.D

Acq: 28 Jun 2019 01:21

Instrument :

MSVOA\_W

ClientSampleId :

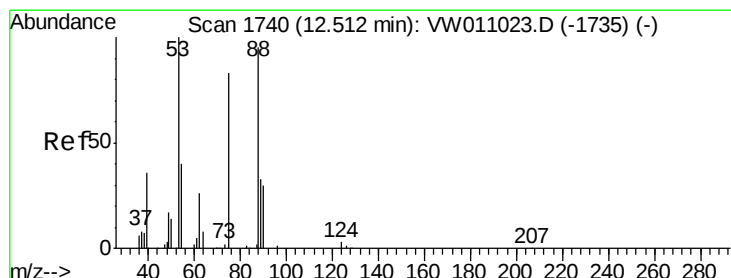
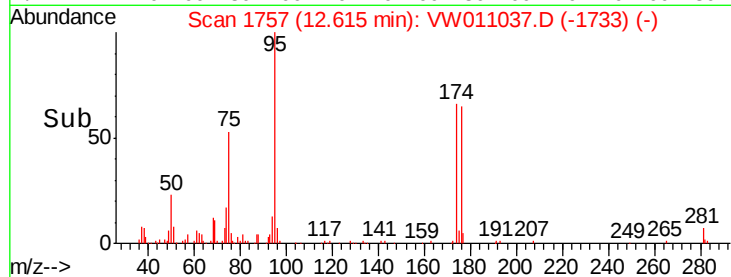
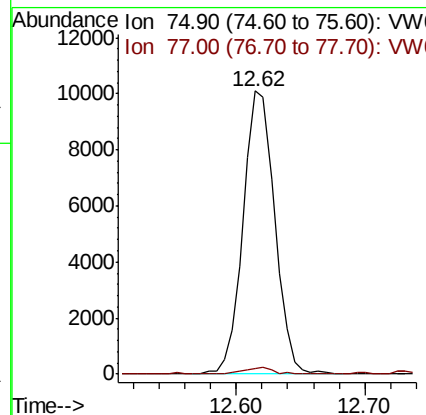
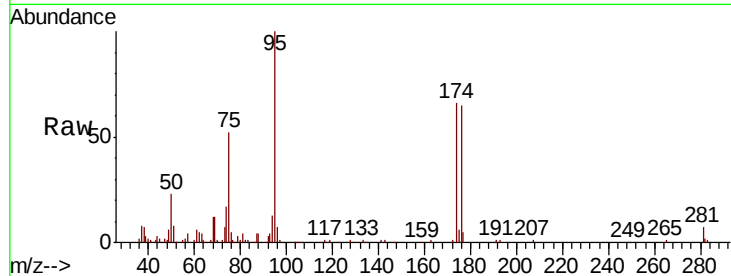
SA-06-062619-A

Tot Ion: 75 Resp: 17122

Ion Ratio Lower Upper

75 100

77 2.1 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 117.301 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW011037.D

Acq: 28 Jun 2019 01:21

Tgt Ion: 75 Resp: 17122

Ion Ratio Lower Upper

75 100

53 0.3 95.6 143.4#

89 0.0 34.4 51.6#

