

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW121718\  
 Data File : VW007526.D  
 Acq On : 14 Dec 2018 11:15  
 Operator : SY/AP  
 Sample : J6322-09  
 Misc : 7.03G/5ML/MSVOA W/SOIL  
 ALS Vial : 52 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SUP-2A-G-1-120718

Quant Time: Dec 14 12:46:51 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W121118S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 11 02:58:16 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 74844    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 139378   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 120425   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 51916    | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |       |     |          |       |        |      |
|---------------------------|-------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31  | 65  | 37282    | 44.90 | ug/l   | 0.00 |
| Spiked Amount             |       |     |          |       |        |      |
|                           |       |     | Recovery | =     | 89.80% |      |
| 35) Dibromofluoromethane  | 7.88  | 113 | 34417    | 40.79 | ug/l   | 0.00 |
| Spiked Amount             |       |     |          |       |        |      |
|                           |       |     | Recovery | =     | 81.58% |      |
| 50) Toluene-d8            | 10.32 | 98  | 120088   | 37.96 | ug/l   | 0.00 |
| Spiked Amount             |       |     |          |       |        |      |
|                           |       |     | Recovery | =     | 75.92% |      |
| 62) 4-Bromofluorobenzene  | 12.62 | 95  | 43135    | 37.09 | ug/l   | 0.00 |
| Spiked Amount             |       |     |          |       |        |      |
|                           |       |     | Recovery | =     | 74.18% |      |

## Target Compounds

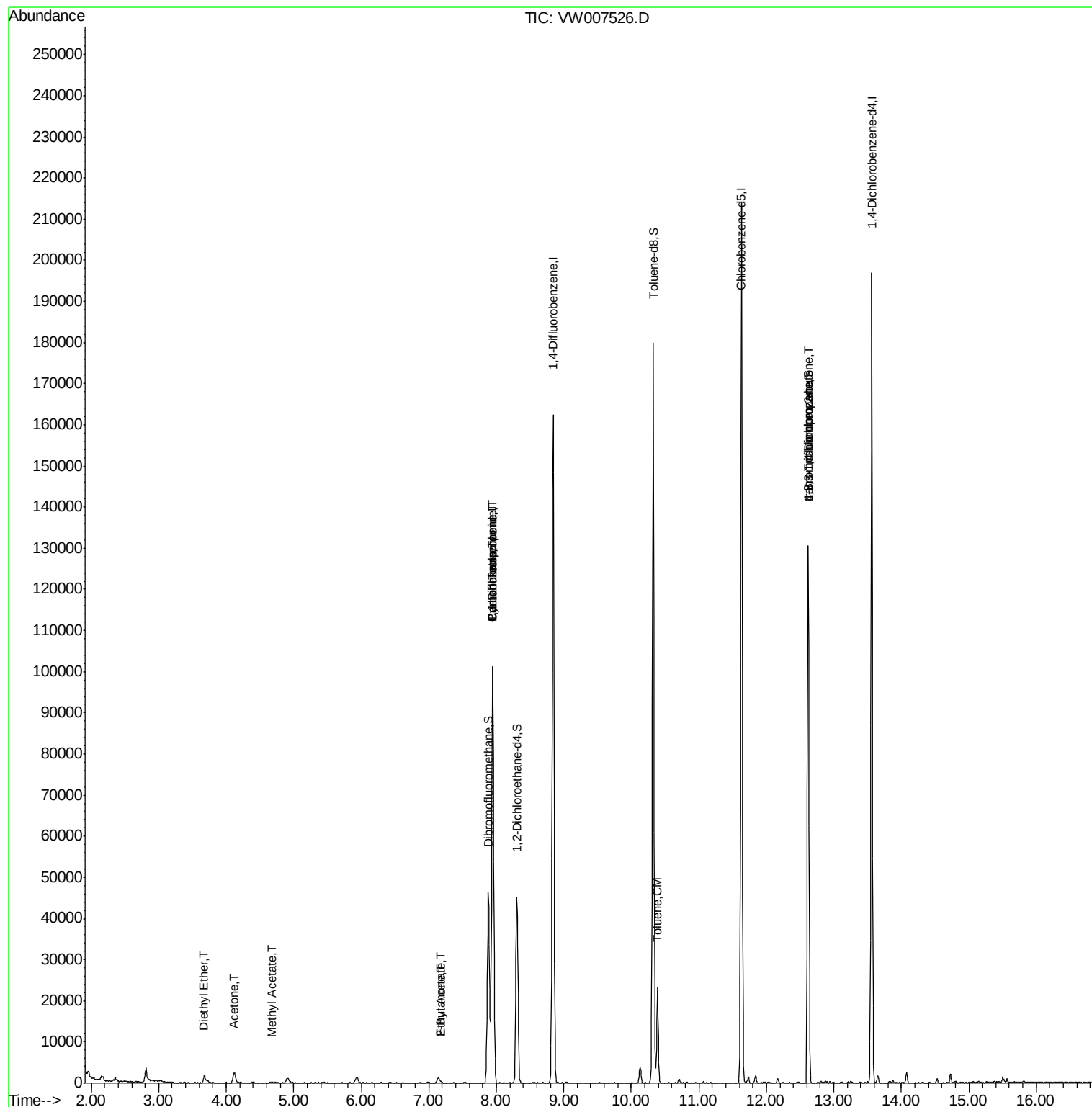
|                                |       |     |       |           | Qvalue |    |
|--------------------------------|-------|-----|-------|-----------|--------|----|
| 8) Diethyl Ether               | 3.68  | 74  | 959   | 2.651     | ug/l   | 96 |
| 16) Acetone                    | 4.11  | 43  | 4558  | 31.427    | ug/l   | 94 |
| 18) Methyl Acetate             | 4.67  | 43  | 544   | 1.382     | ug/l # | 81 |
| 20) Methylene Chloride         | 4.92  | 84  | 1116  | Below Cal | #      | 82 |
| 25) 2-Butanone                 | 7.18  | 43  | 515   | 2.720     | ug/l # | 45 |
| 31) Cyclohexane                | 7.95  | 56  | 1480  | 1.147     | ug/l # | 21 |
| 36) 1,1-Dichloropropene        | 7.95  | 75  | 5813  | 4.572     | ug/l # | 48 |
| 37) Ethyl Acetate              | 7.18  | 43  | 515   | 1.089     | ug/l # | 66 |
| 38) Carbon Tetrachloride       | 7.95  | 117 | 8118  | 5.868     | ug/l # | 16 |
| 52) Toluene                    | 10.39 | 92  | 9819  | 4.300     | ug/l   | 99 |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75  | 22167 | 51.785    | ug/l # | 1  |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75  | 22167 | 114.392   | ug/l # | 7  |

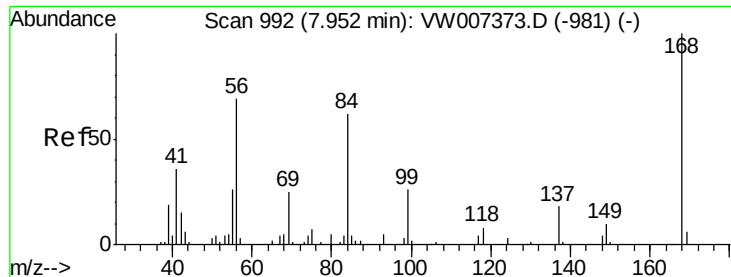
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW121718\  
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MSVOA\_W  
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SUP-2A-G-1-120718

Quant Time: Dec 14 12:46:51 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W121118S.M  
Quant Title : SW846 8260  
QLast Update : Tue Dec 11 02:58:16 2018  
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: VW007526.D

Acq: 14 Dec 2018 11:15

Instrument :

MSVOA\_W

ClientSampleId :

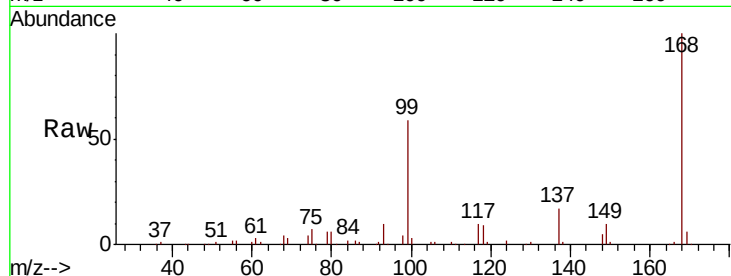
SUP-2A-G-1-120718

Tot Ion:168 Resp: 74844

Ion Ratio Lower Upper

168 100

99 58.8 48.3 72.5



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

7.95

40000

30000

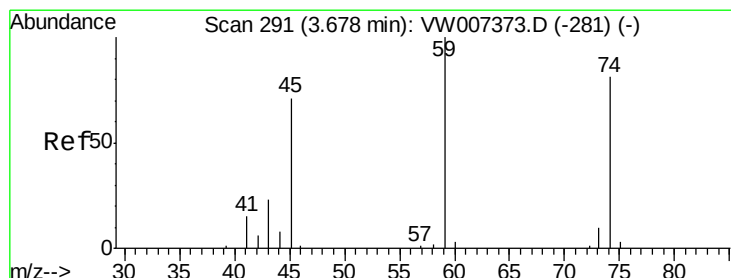
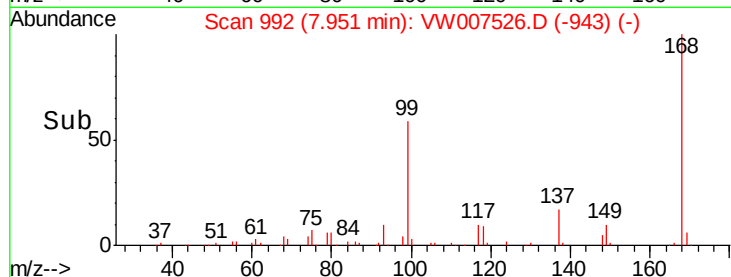
20000

10000

0

Time-->

7.85 7.90 7.95 8.00 8.05



#8

Diethyl Ether

Concen: 2.651 ug/l

RT: 3.68 min Scan# 291

Delta R.T. -0.00 min

Lab File: VW007526.D

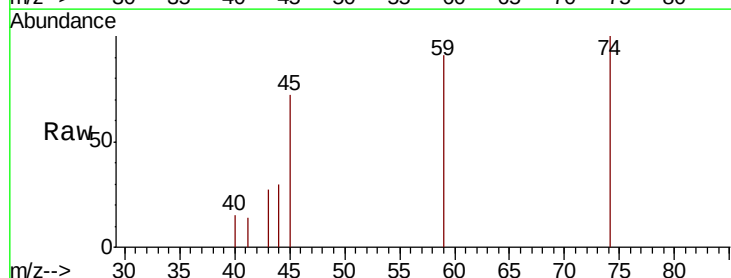
Acq: 14 Dec 2018 11:15

Tgt Ion: 74 Resp: 959

Ion Ratio Lower Upper

74 100

45 89.4 43.0 129.0



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

3.68

600

500

400

300

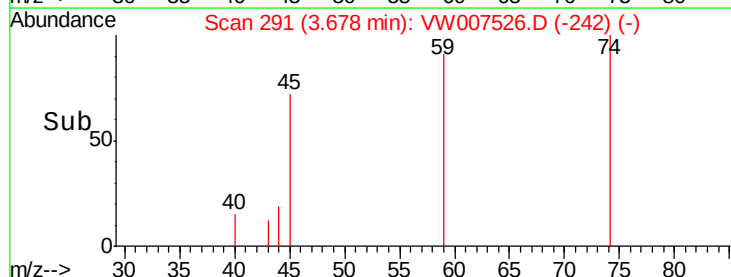
200

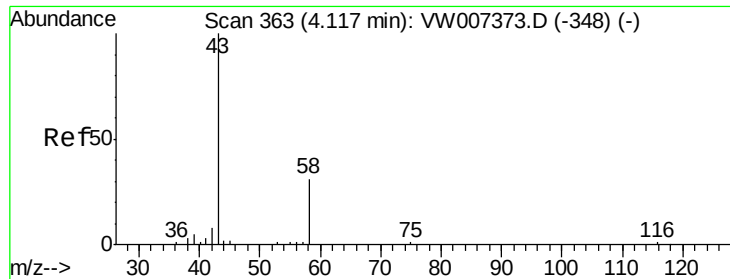
100

0

Time-->

3.60 3.65 3.70 3.75





#16

Acetone

Concen: 31.427 ug/l

RT: 4.11 min Scan# 362

Delta R.T. -0.01 min

Lab File: VW007526.D

Acq: 14 Dec 2018 11:15

Instrument :

MSVOA\_W

ClientSampleId :

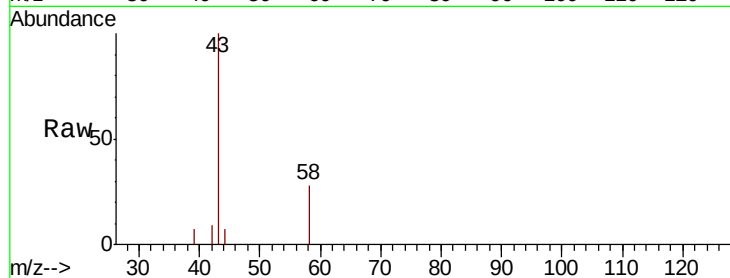
SUP-2A-G-1-120718

Tot Ion: 43 Resp: 4558

Ion Ratio Lower Upper

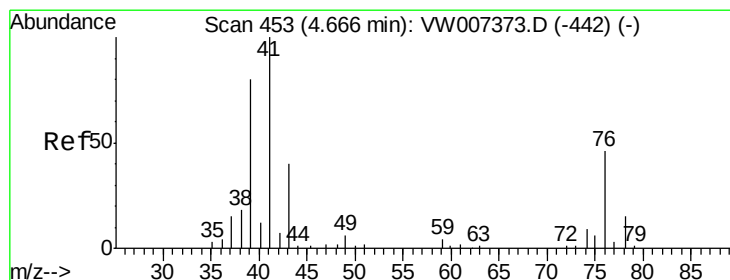
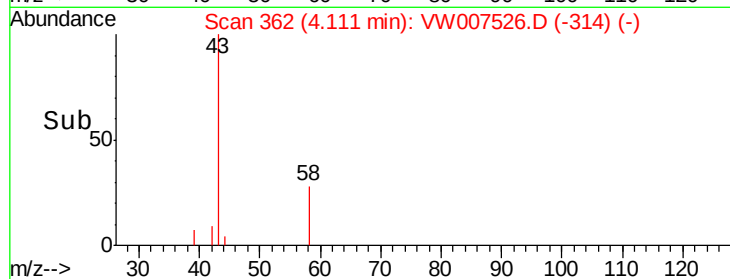
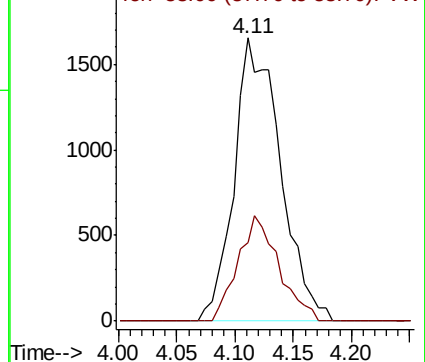
43 100

58 27.8 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#18

Methyl Acetate

Concen: 1.382 ug/l

RT: 4.67 min Scan# 454

Delta R.T. 0.01 min

Lab File: VW007526.D

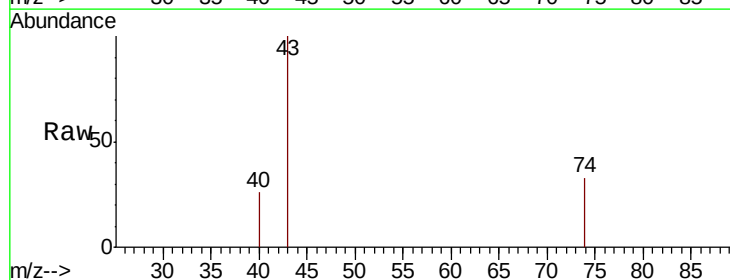
Acq: 14 Dec 2018 11:15

Tgt Ion: 43 Resp: 544

Ion Ratio Lower Upper

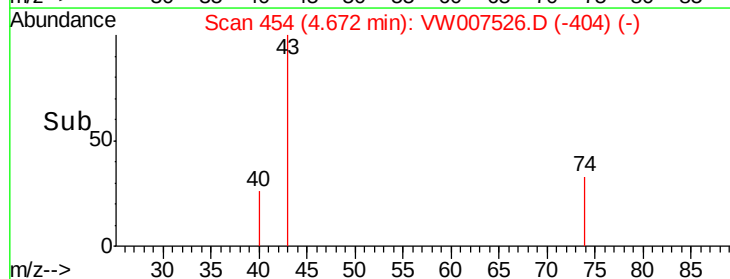
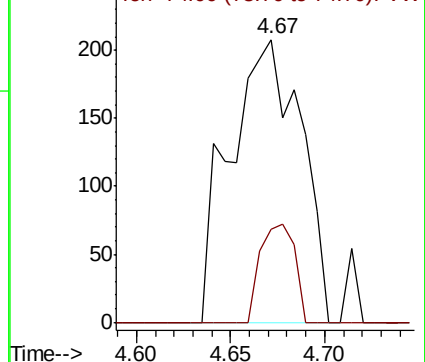
43 100

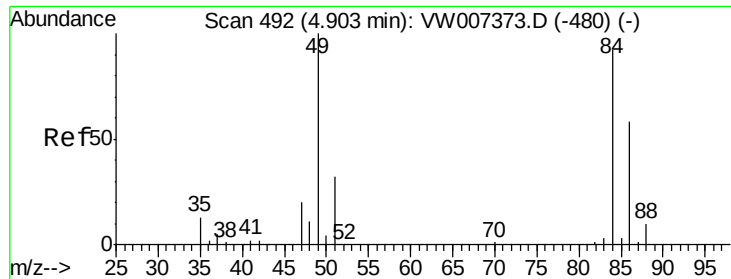
74 16.7 21.1 31.7#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW

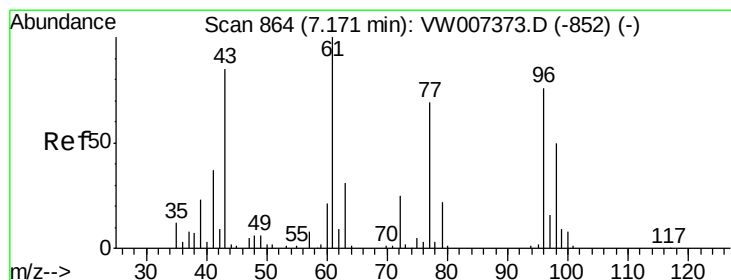
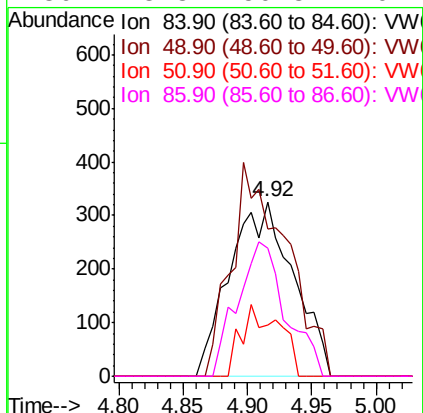
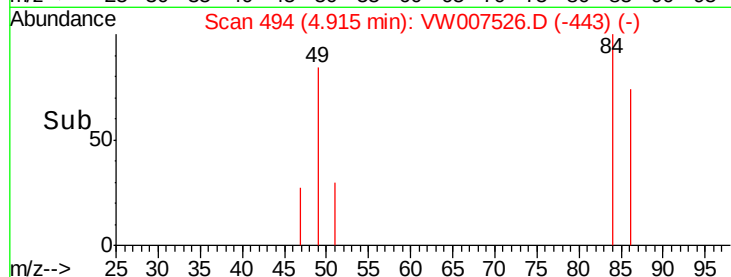
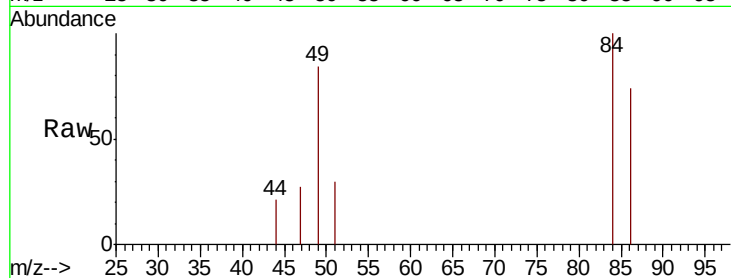




#20  
Methvlene Chloride  
Concen: Below Cal  
RT: 4.92 min Scan# 494  
Delta R.T. 0.01 min  
Lab File: VW007526.D  
Acq: 14 Dec 2018 11:15

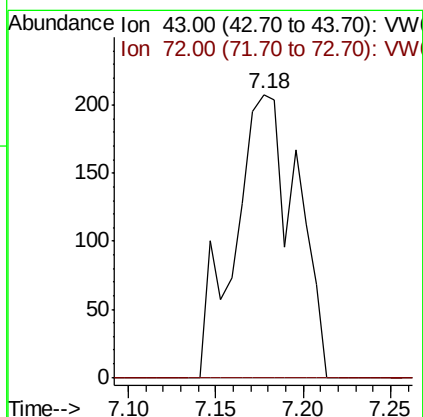
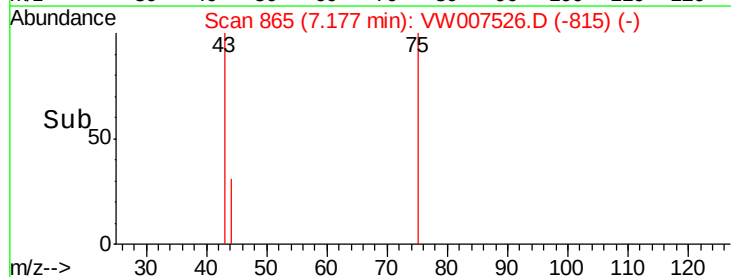
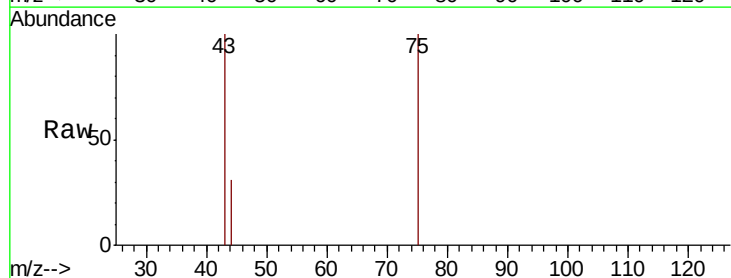
Instrument :  
MSVOA\_W  
ClientSampleId :  
SUP-2A-G-1-120718

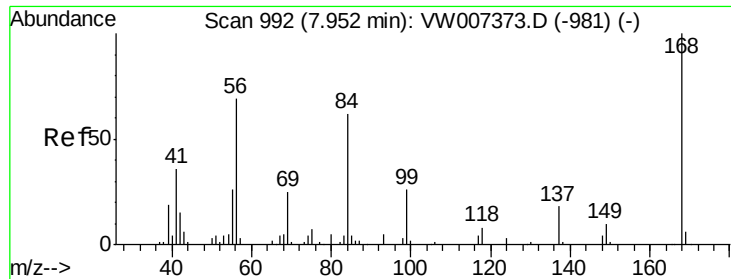
Tot Ion: 84 Resp: 1116  
Ion Ratio Lower Upper  
84 100  
49 84.3 87.1 130.7#  
51 29.5 28.2 42.2  
86 73.8 50.8 76.2



#25  
2-Butanone  
Concen: 2.720 ug/l  
RT: 7.18 min Scan# 865  
Delta R.T. 0.01 min  
Lab File: VW007526.D  
Acq: 14 Dec 2018 11:15

Tgt Ion: 43 Resp: 515  
Ion Ratio Lower Upper  
43 100  
72 0.0 23.4 35.2#

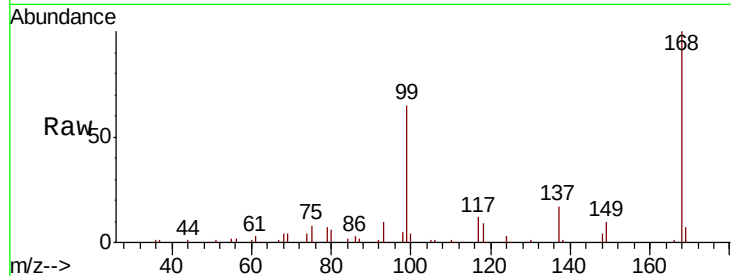




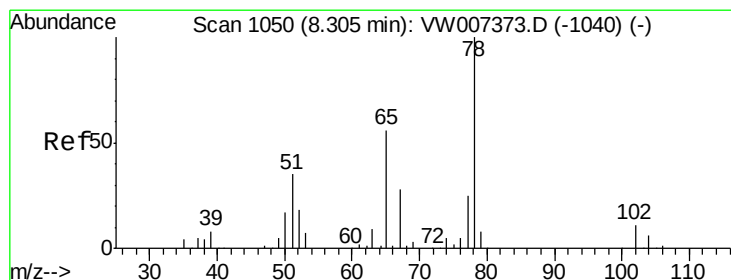
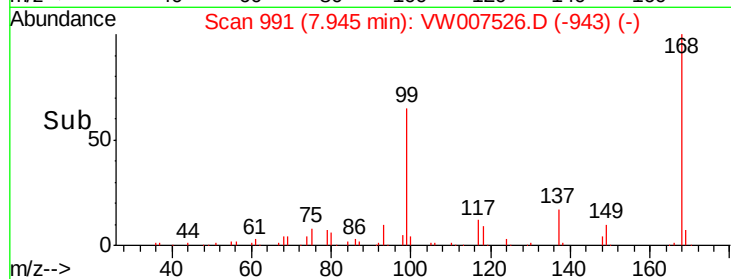
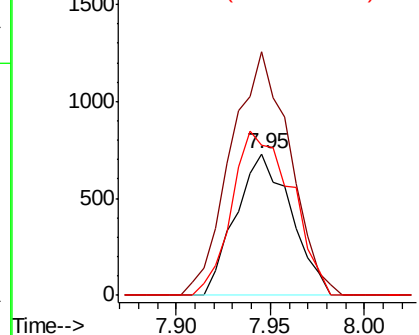
#31  
Cyclohexane  
Concen: 1.147 ug/l  
RT: 7.95 min Scan# 991  
Delta R.T. -0.01 min  
Lab File: VW007526.D  
Acq: 14 Dec 2018 11:15

Instrument :  
MSVOA\_W  
ClientSampleId :  
SUP-2A-G-1-120718

Tot Ion: 56 Resp: 1480  
Ion Ratio Lower Upper  
56 100  
69 172.1 28.9 43.3#  
84 106.0 71.8 107.6

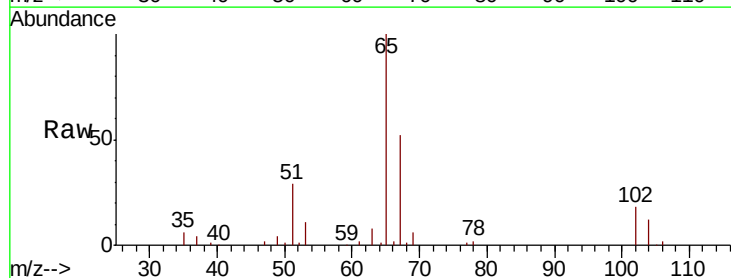


Abundance Ion 56.00 (55.70 to 56.70): VW  
Ion 69.00 (68.70 to 69.70): VW  
Ion 84.00 (83.70 to 84.70): VW

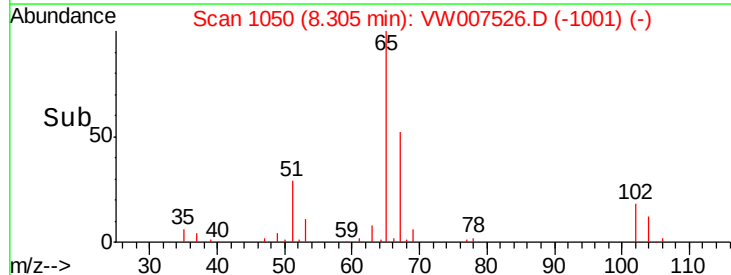
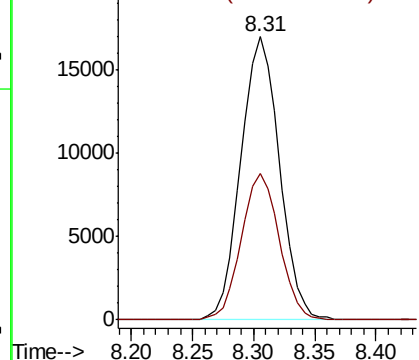


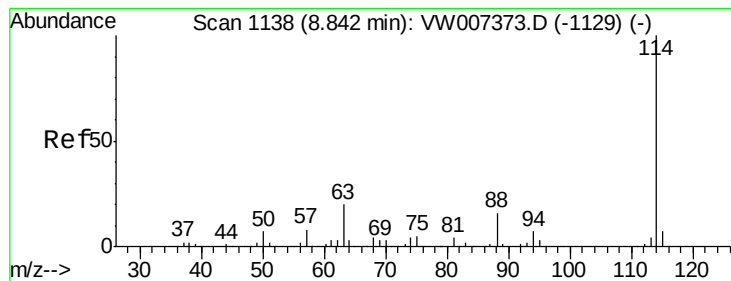
#33  
1,2-Dichloroethane-d4  
Concen: 44.900 ug/l  
RT: 8.31 min Scan# 1050  
Delta R.T. -0.00 min  
Lab File: VW007526.D  
Acq: 14 Dec 2018 11:15

Tgt Ion: 65 Resp: 37282  
Ion Ratio Lower Upper  
65 100  
67 51.0 0.0 101.6



Abundance Ion 64.90 (64.60 to 65.60): VW  
Ion 66.90 (66.60 to 67.60): VW





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VW007526.D

Acq: 14 Dec 2018 11:15

Instrument :

MSVOA\_W

ClientSampleId :

SUP-2A-G-1-120718

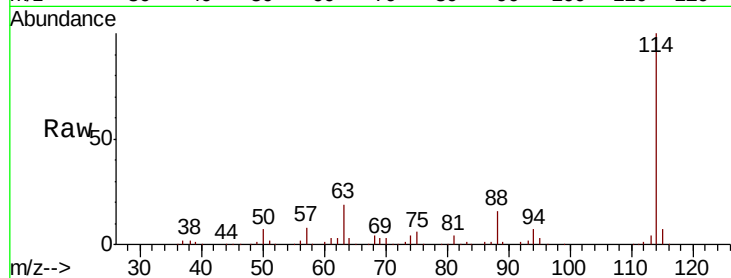
Tot Ion:114 Resp: 139378

Ion Ratio Lower Upper

114 100

63 19.3 0.0 39.6

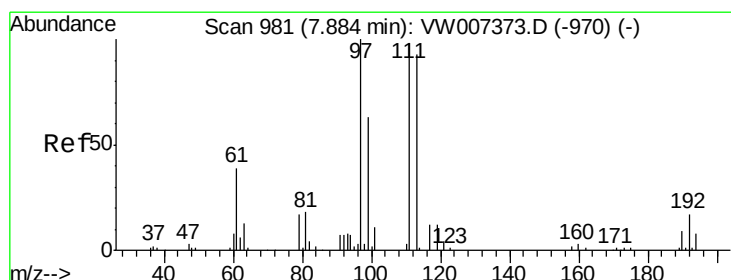
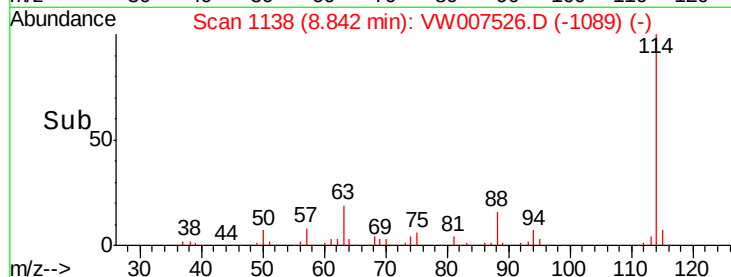
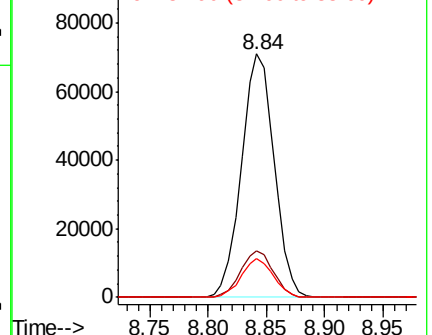
88 16.1 0.0 31.4



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: 40.792 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW007526.D

Acq: 14 Dec 2018 11:15

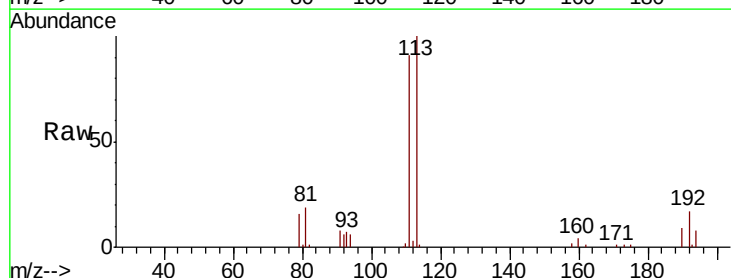
Tgt Ion:113 Resp: 34417

Ion Ratio Lower Upper

113 100

111 100.1 81.1 121.7

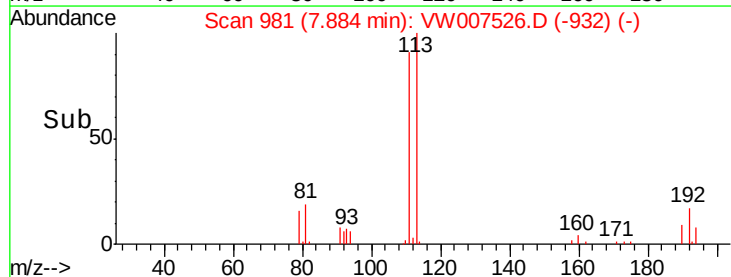
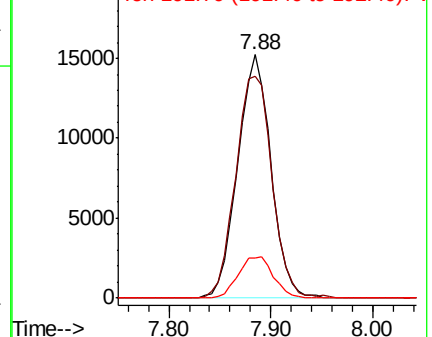
192 18.1 14.6 21.8

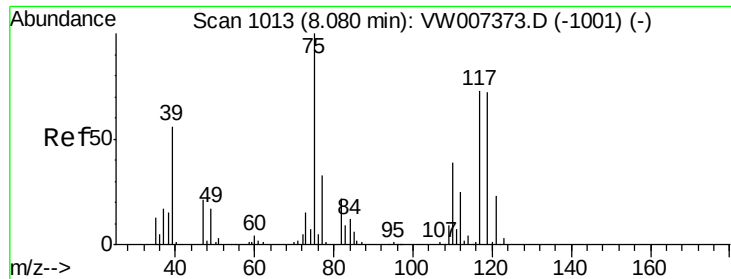


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

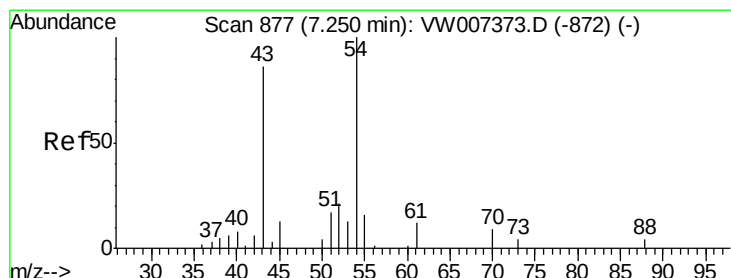
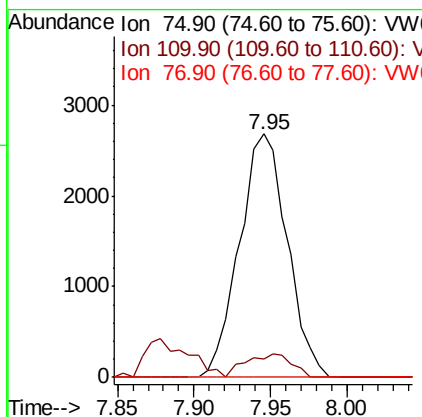
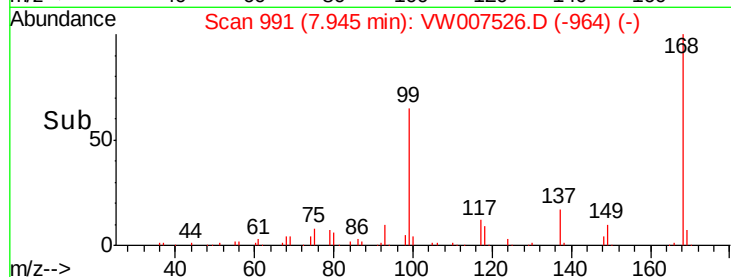
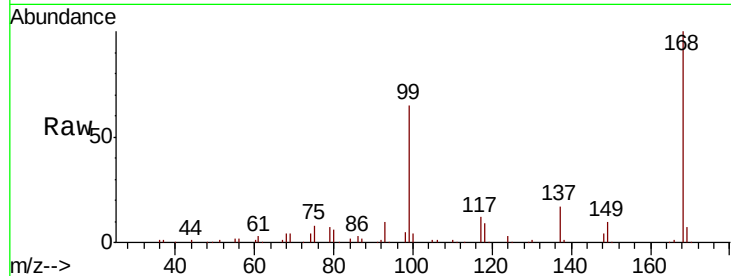




#36  
 1,1-Dichloropropene  
 Concen: 4.572 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.13 min  
 Lab File: VW007526.D  
 Acq: 14 Dec 2018 11:15

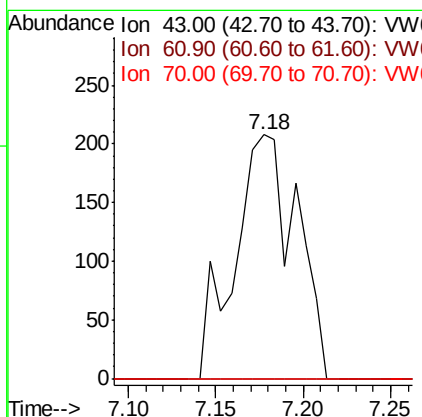
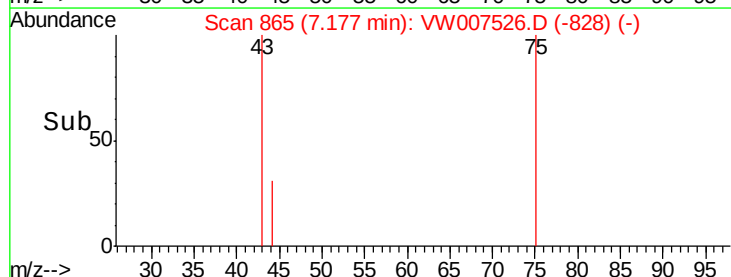
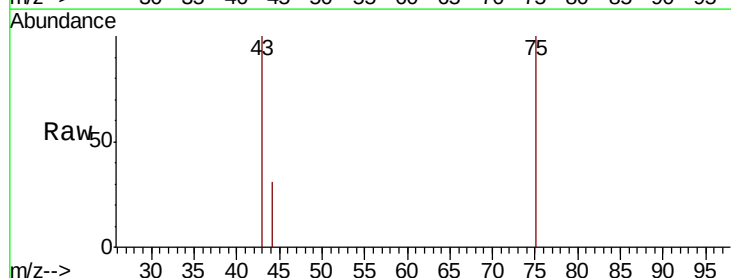
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SUP-2A-G-1-120718

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 9.3   | 18.5  | 55.5# |
| 77      | 0.0   | 25.6  | 38.4# |

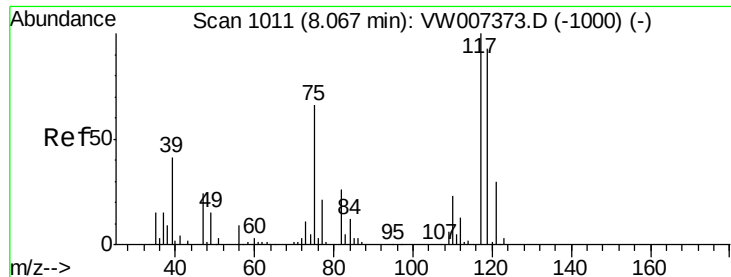


#37  
 Ethyl Acetate  
 Concen: 1.089 ug/l  
 RT: 7.18 min Scan# 865  
 Delta R.T. -0.07 min  
 Lab File: VW007526.D  
 Acq: 14 Dec 2018 11:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 0.0   | 12.1  | 18.1# |
| 70      | 0.0   | 10.0  | 15.0# |



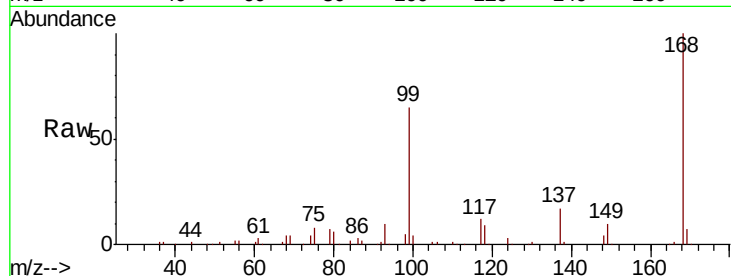




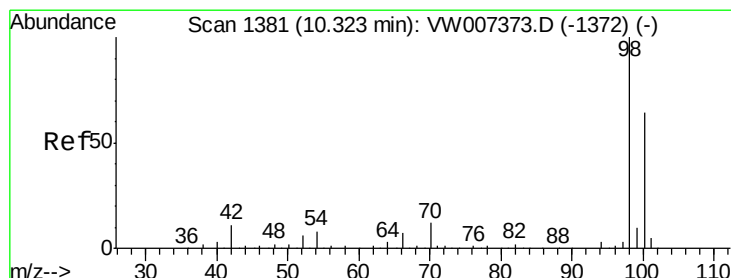
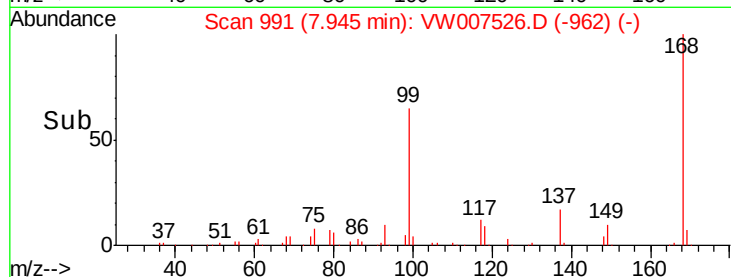
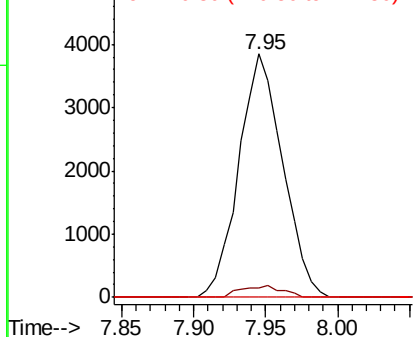
#38  
Carbon Tetrachloride  
Concen: 5.868 ug/l  
RT: 7.95 min Scan# 991  
Delta R.T. -0.12 min  
Lab File: VW007526.D  
Acq: 14 Dec 2018 11:15

Instrument :  
MSVOA\_W  
ClientSampleId :  
SUP-2A-G-1-120718

Tot Ion:117 Resp: 8118  
Ion Ratio Lower Upper  
117 100  
119 3.7 74.3 111.5#  
121 0.0 24.3 36.5#

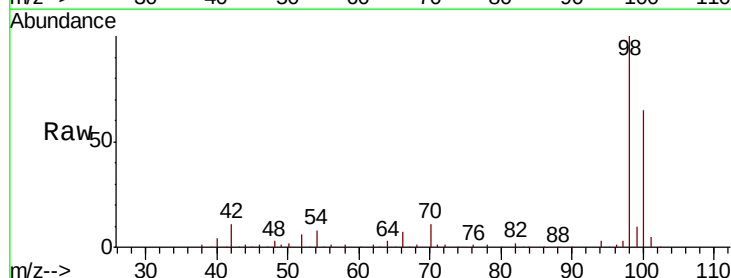


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

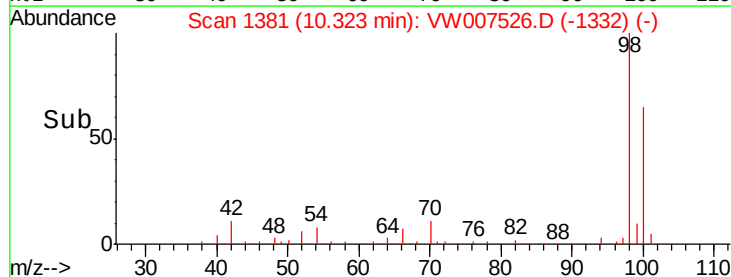
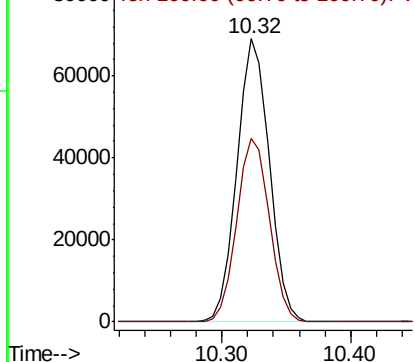


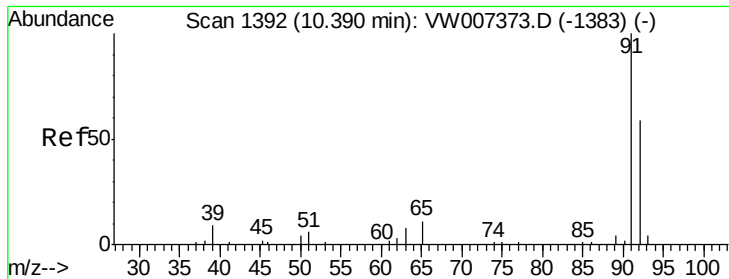
#50  
Toluene-d8  
Concen: 37.961 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. -0.00 min  
Lab File: VW007526.D  
Acq: 14 Dec 2018 11:15

Tgt Ion: 98 Resp: 120088  
Ion Ratio Lower Upper  
98 100  
100 65.3 51.8 77.8



Abundance Ion 98.00 (97.70 to 98.70): VW  
Ion 100.00 (99.70 to 100.70): V





#52

Toluene

Concen: 4.300 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW007526.D

Acq: 14 Dec 2018 11:15

Instrument :

MSVOA\_W

ClientSampleId :

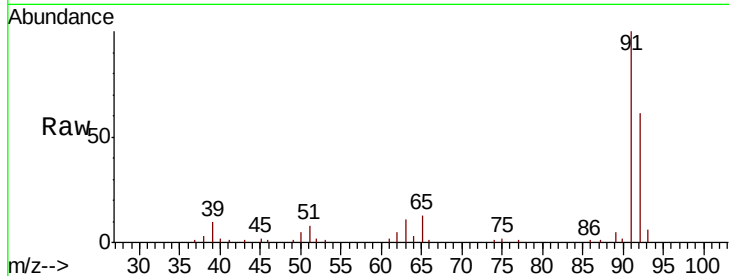
SUP-2A-G-1-120718

Tot Ion: 92 Resp: 9819

Ion Ratio Lower Upper

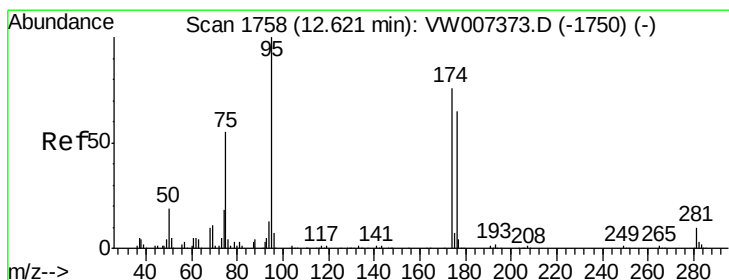
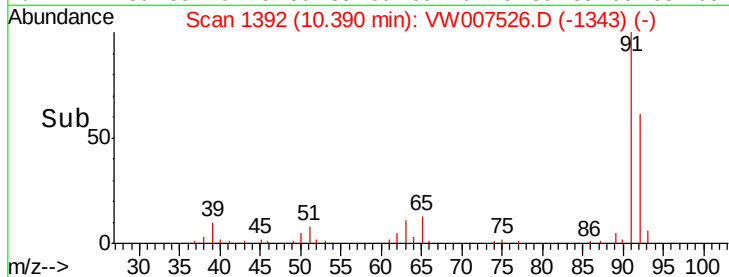
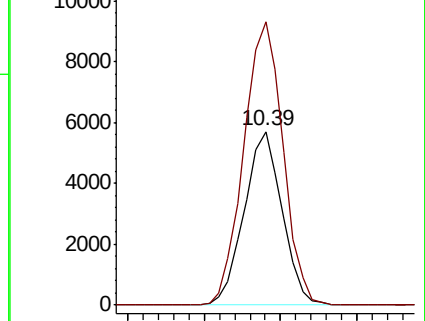
92 100

91 168.8 136.2 204.2



Abundance Ion 92.00 (91.70 to 92.70): VW

Ion 91.00 (90.70 to 91.70): VW



#62

4-Bromofluorobenzene

Concen: 37.086 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW007526.D

Acq: 14 Dec 2018 11:15

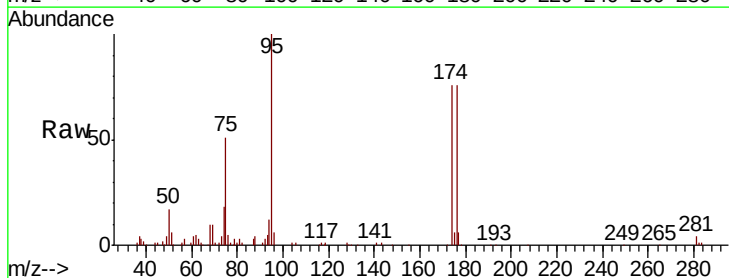
Tgt Ion: 95 Resp: 43135

Ion Ratio Lower Upper

95 100

174 76.1 0.0 147.2

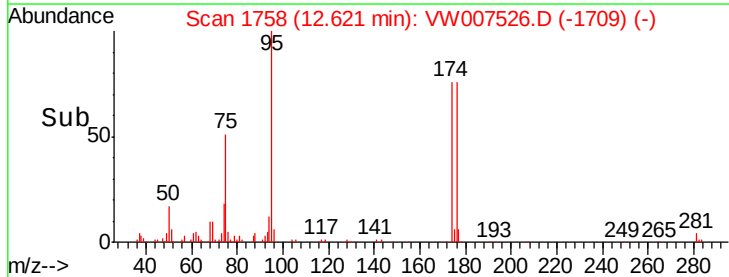
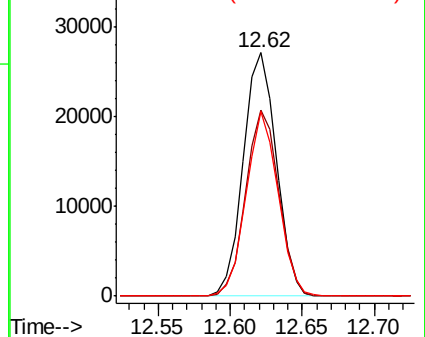
176 73.0 0.0 138.8

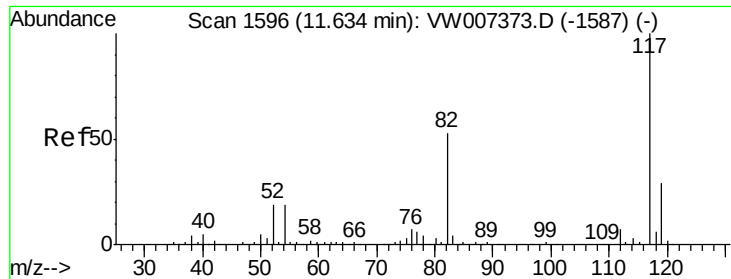


Abundance Ion 94.90 (94.60 to 95.60): VW

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: VW007526.D

Acq: 14 Dec 2018 11:15

Instrument :

MSVOA\_W

ClientSampleId :

SUP-2A-G-1-120718

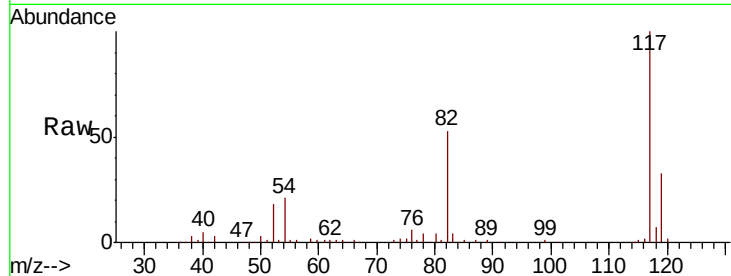
Tot Ion:117 Resp: 120425

Ion Ratio Lower Upper

117 100

82 53.3 42.3 63.5

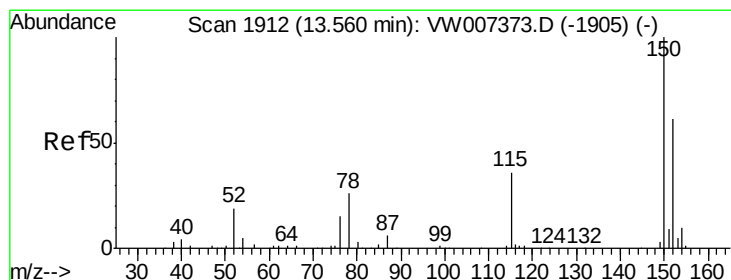
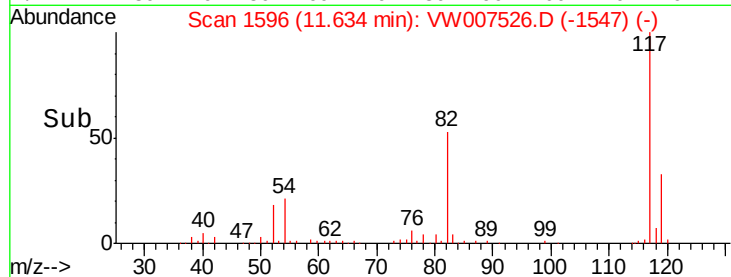
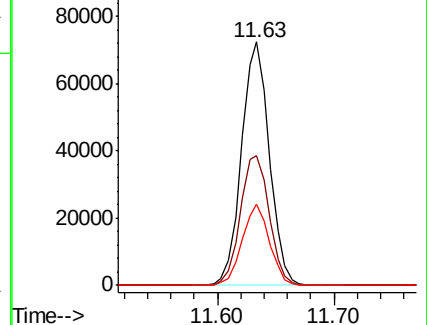
119 33.1 23.0 34.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW007526.D

Acq: 14 Dec 2018 11:15

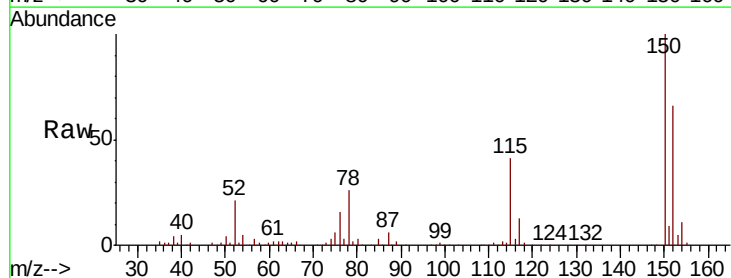
Tgt Ion:152 Resp: 51916

Ion Ratio Lower Upper

152 100

115 60.8 31.4 94.2

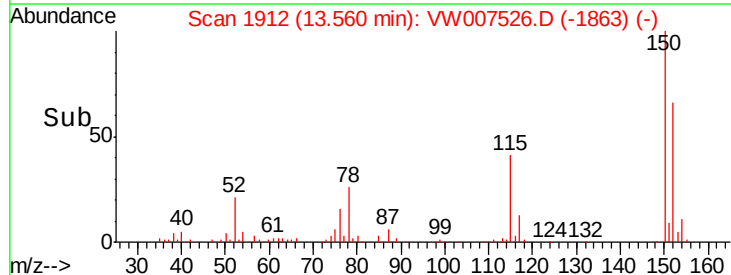
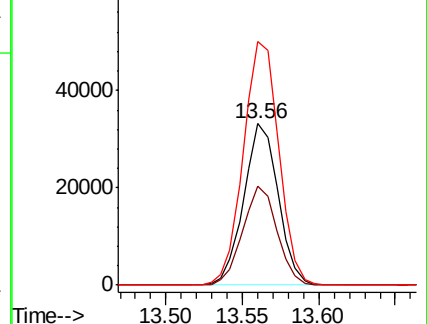
150 155.7 0.0 358.4

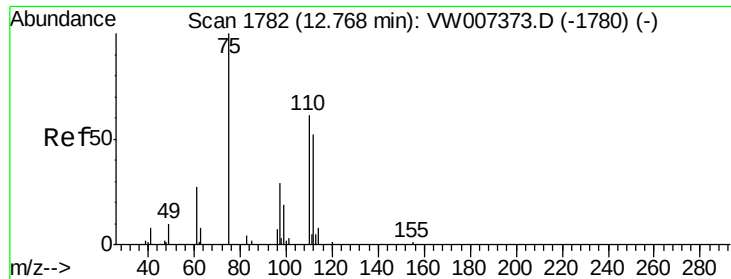


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 51.785 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW007526.D

Acq: 14 Dec 2018 11:15

Instrument :

MSVOA\_W

ClientSampleId :

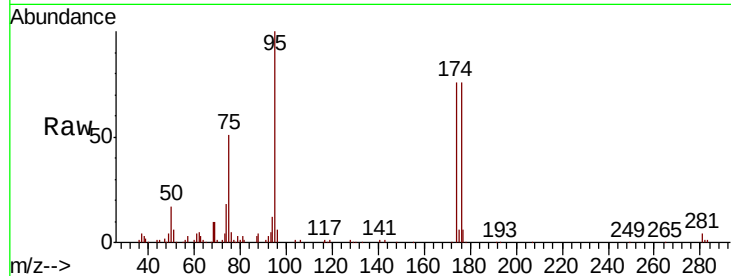
SUP-2A-G-1-120718

Tot Ion: 75 Resp: 22167

Ion Ratio Lower Upper

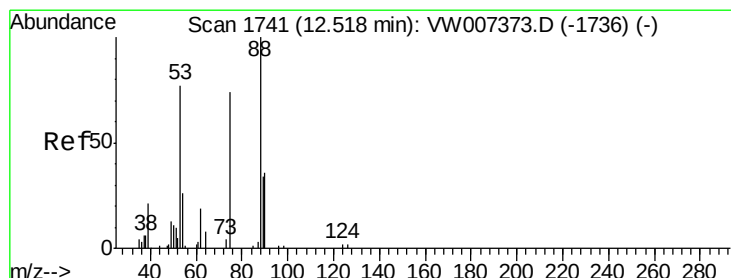
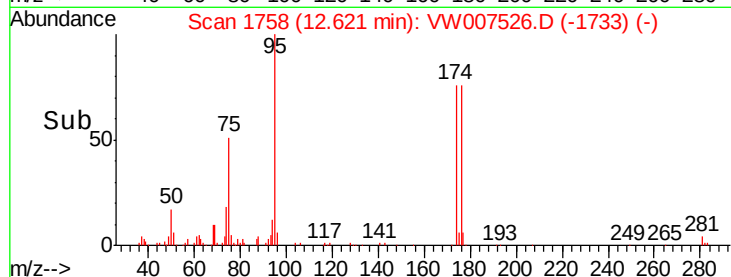
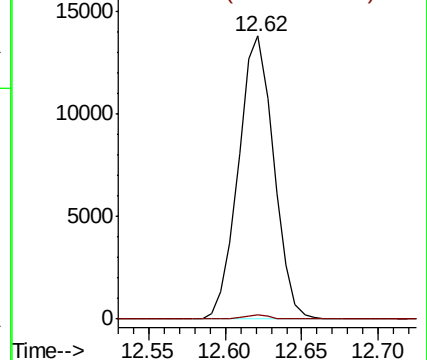
75 100

77 0.9 166.9 500.8#



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: 114.392 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW007526.D

Acq: 14 Dec 2018 11:15

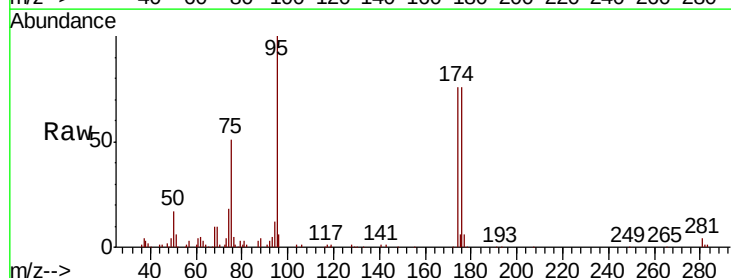
Tgt Ion: 75 Resp: 22167

Ion Ratio Lower Upper

75 100

53 0.0 84.9 127.3#

89 0.0 40.3 60.5#



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

