

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW121518\  
 Data File : VW007468.D  
 Acq On : 13 Dec 2018 04:49  
 Operator : SY/AP  
 Sample : J6340-11  
 Misc : 5.03G/5ML/MSVOA W/SOIL  
 ALS Vial : 42 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SB-10A

Quant Time: Dec 13 05:44:25 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  | 40295    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 69019    | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 51592    | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 13467    | 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   | 19159    | 42.86 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 85.72% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 16846    | 40.32 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 80.64% |          |
| 50) Toluene-d8              | 10.32 | 98   | 46412    | 29.63 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 59.26% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 12310    | 21.37 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 42.74% |          |

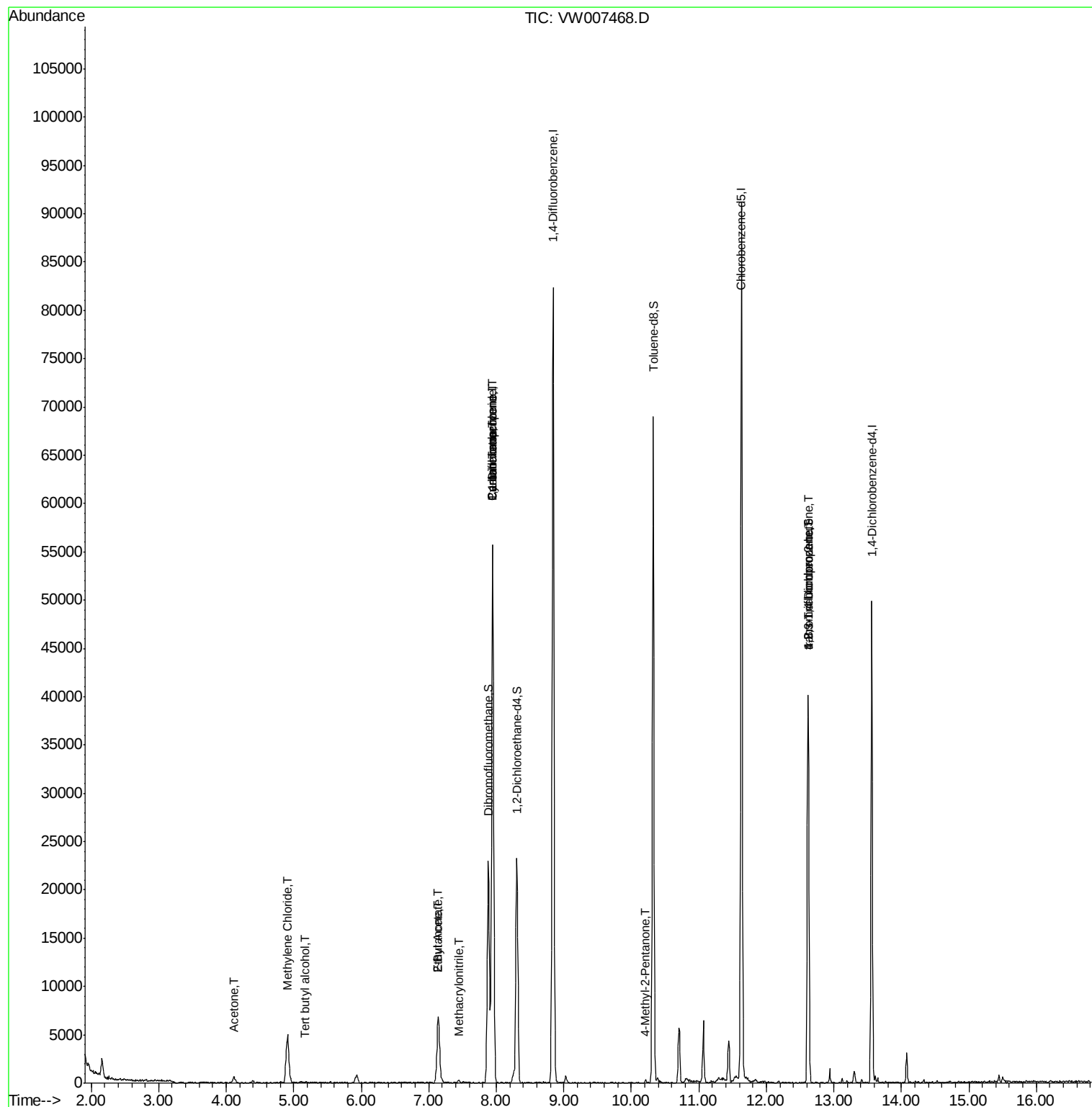
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 11) Tert butyl alcohol         | 5.17  | 59   | 46       | 1.498   | ug/l # | 74     |
| 16) Acetone                    | 4.12  | 43   | 1100     | 14.087  | ug/l   | 94     |
| 20) Methylene Chloride         | 4.91  | 84   | 3850     | 5.532   | ug/l   | 95     |
| 25) 2-Butanone                 | 7.15  | 43   | 305      | 2.992   | ug/l # | 45     |
| 31) Cyclohexane                | 7.95  | 56   | 948      | 1.365   | ug/l # | 38     |
| 36) 1,1-Dichloropropene        | 7.94  | 75   | 3348     | 5.318   | ug/l # | 46     |
| 37) Ethyl Acetate              | 7.15  | 43   | 305      | 1.302   | ug/l # | 1      |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 4272     | 6.236   | ug/l # | 17     |
| 41) Methacrylonitrile          | 7.46  | 41   | 159      | 1.192   | ug/l # | 25     |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 364      | 1.665   | ug/l # | 54     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 6160     | 55.476  | ug/l # | 1      |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 6160     | 122.547 | ug/l # | 7      |

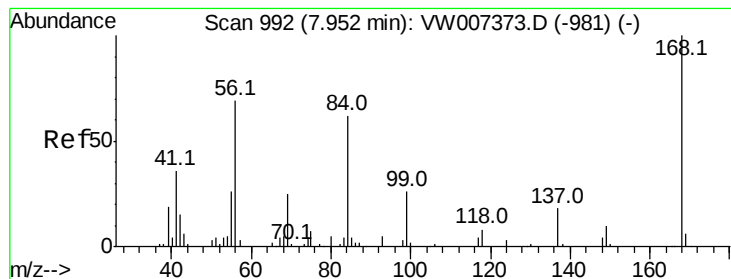
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW121518\  
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SB-10A

Quant Time: Dec 13 05:44:25 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# 991

Delta R.T. -0.01 min

Lab File: VW007468.D

Acq: 13 Dec 2018 04:49

Instrument :

MSVOA\_W

ClientSampled :

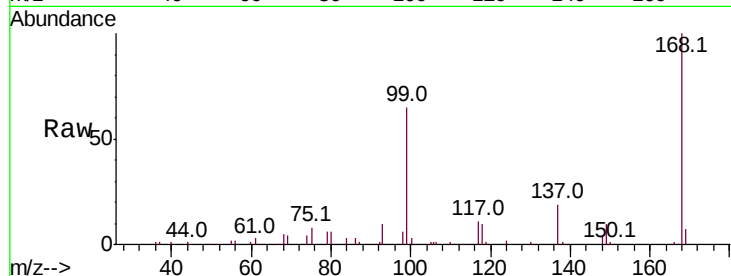
SB-10A

Tot Ion:168 Resp: 40295

Ion Ratio Lower Upper

168 100

99 65.1 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

20000

15000

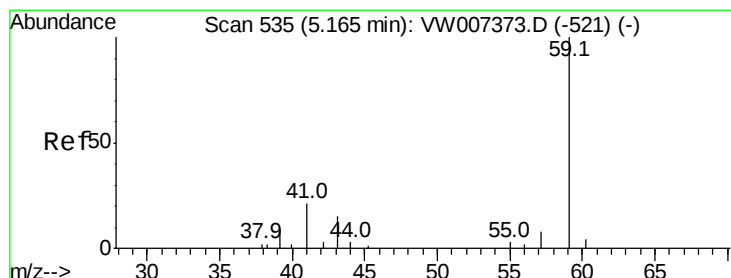
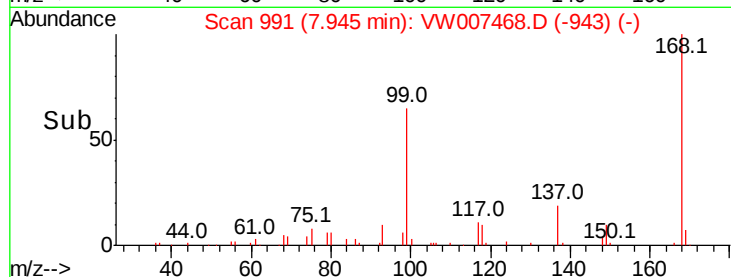
10000

5000

0

Time-->

7.85 7.90 7.95 8.00 8.05



#11

Tert butyl alcohol

Concen: 1.498 ug/l

RT: 5.17 min Scan# 535

Delta R.T. -0.00 min

Lab File: VW007468.D

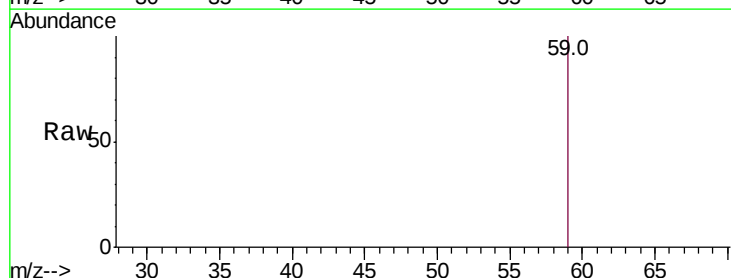
Acq: 13 Dec 2018 04:49

Tgt Ion: 59 Resp: 46

Ion Ratio Lower Upper

59 100

57 0.0 7.6 11.4#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.17

80

60

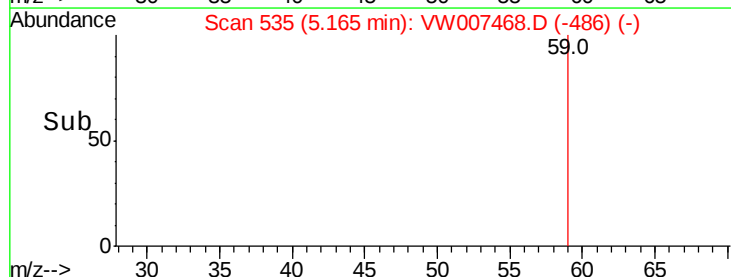
40

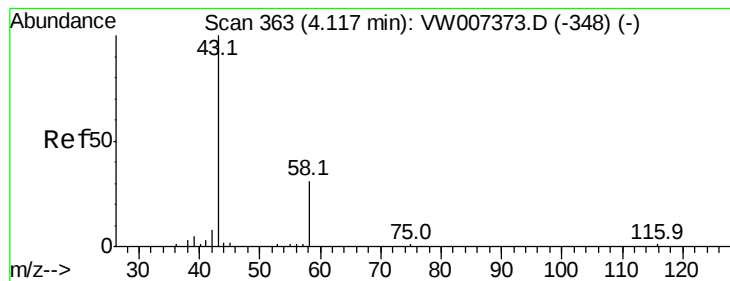
20

0

Time-->

5.14 5.15 5.16 5.17 5.18





#16

Acetone

Concen: 14.087 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW007468.D

Acq: 13 Dec 2018 04:49

Instrument :

MSVOA\_W

ClientSampleId :

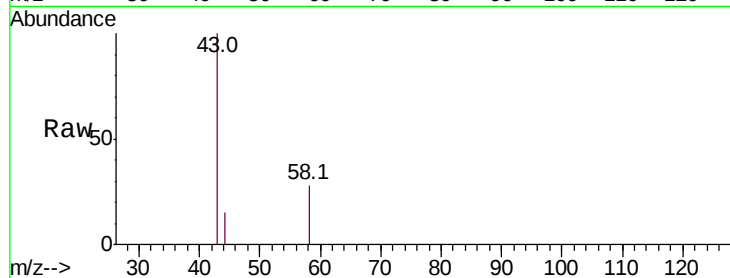
SB-10A

Tot Ion: 43 Resp: 1100

Ion Ratio Lower Upper

43 100

58 28.0 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.12

400

300

200

100

0

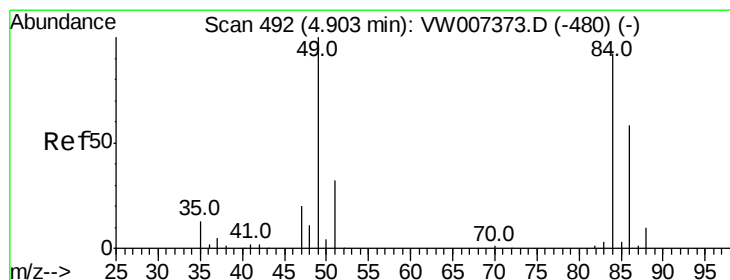
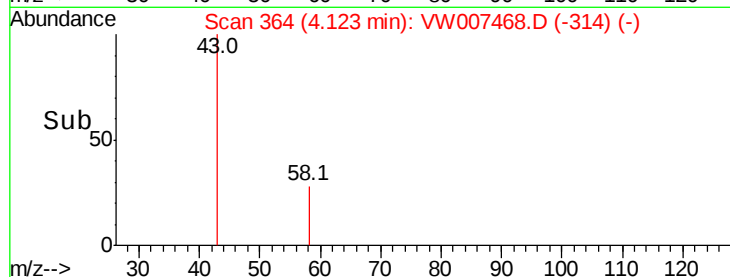
4.05

4.10

4.15

4.20

Time-->



#20

Methylene Chloride

Concen: 5.532 ug/l

RT: 4.91 min Scan# 493

Delta R.T. 0.01 min

Lab File: VW007468.D

Acq: 13 Dec 2018 04:49

Tgt Ion: 84 Resp: 3850

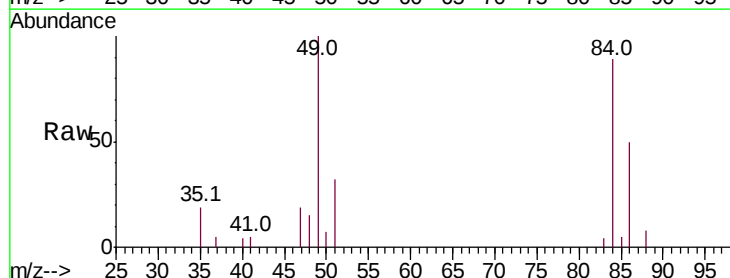
Ion Ratio Lower Upper

84 100

49 112.2 87.1 130.7

51 35.5 28.2 42.2

86 56.5 50.8 76.2



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

2000

1500

1000

500

0

4.80

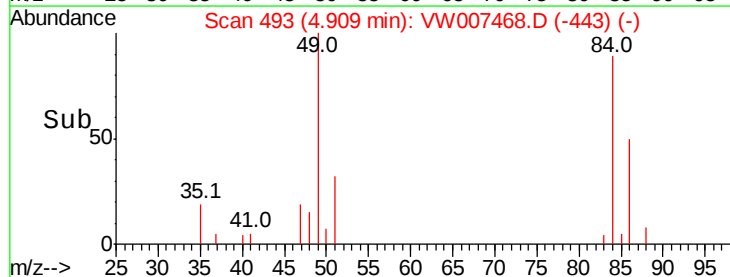
4.85

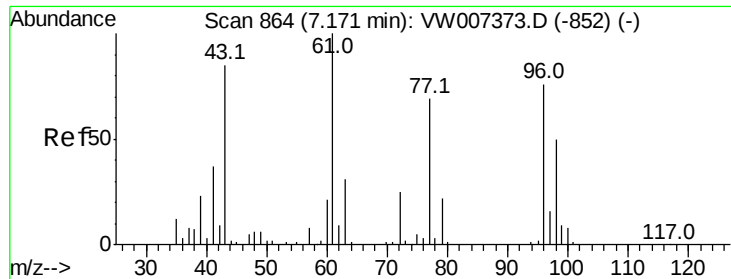
4.90

4.95

5.00

Time-->





#25

2-Butanone

Concen: 2.992 ug/l

RT: 7.15 min Scan# 860

Delta R.T. -0.02 min

Lab File: VW007468.D

Acq: 13 Dec 2018 04:49

Instrument :

MSVOA\_W

ClientSampleId :

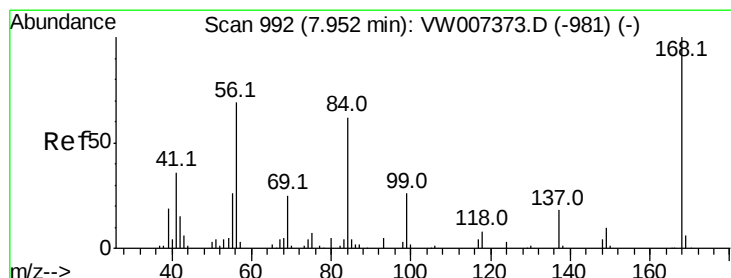
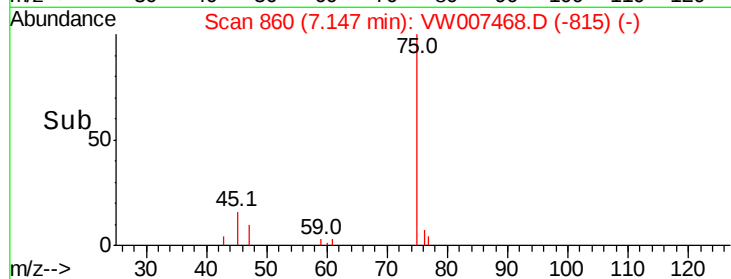
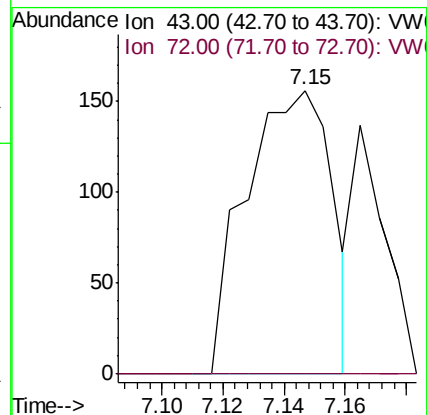
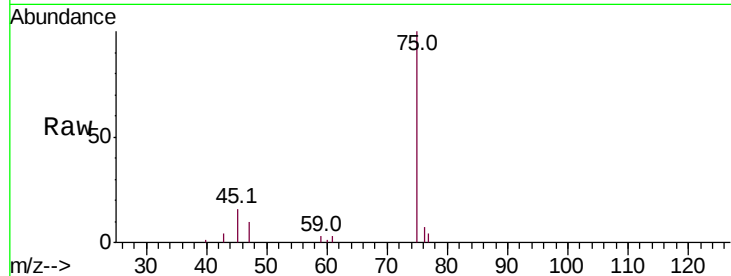
SB-10A

Tot Ion: 43 Resp: 305

Ion Ratio Lower Upper

43 100

72 0.0 23.4 35.2#



#31

Cyclohexane

Concen: 1.365 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW007468.D

Acq: 13 Dec 2018 04:49

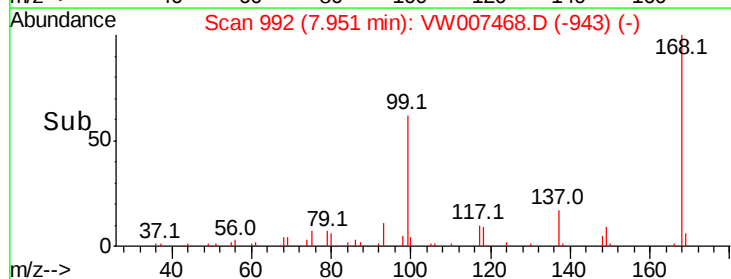
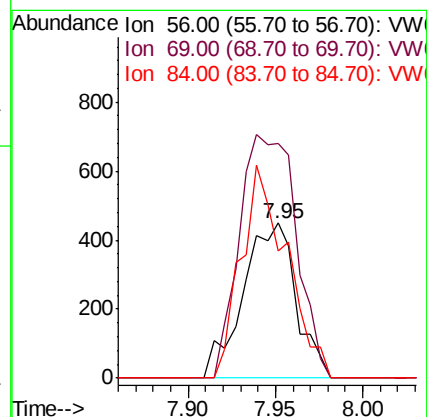
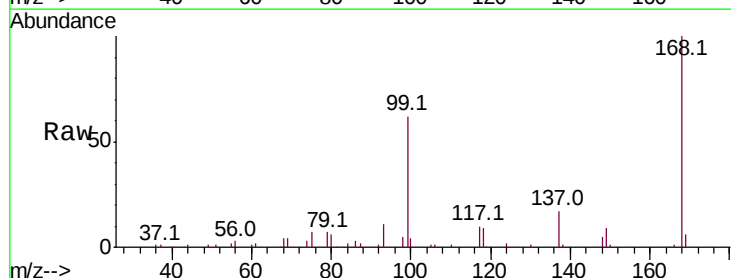
Tgt Ion: 56 Resp: 948

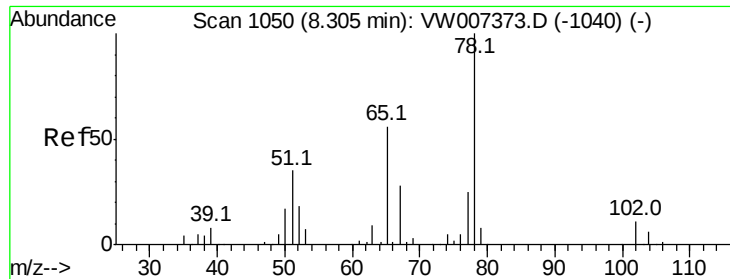
Ion Ratio Lower Upper

56 100

69 151.9 28.9 43.3#

84 81.7 71.8 107.6

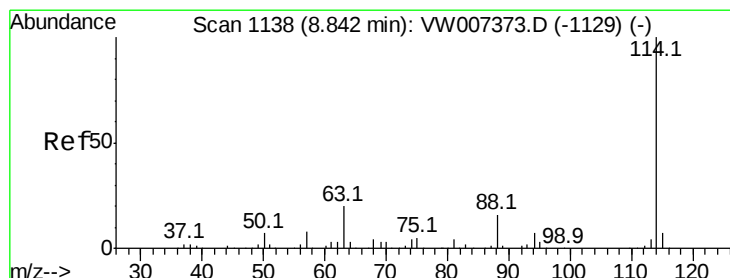
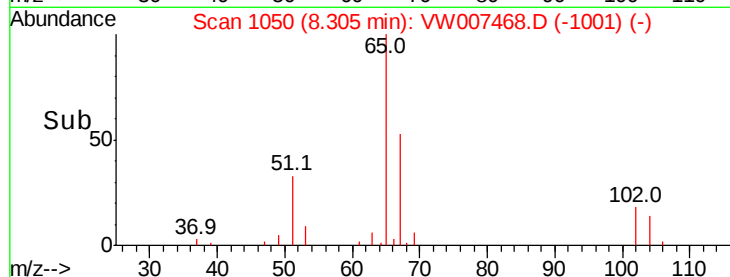
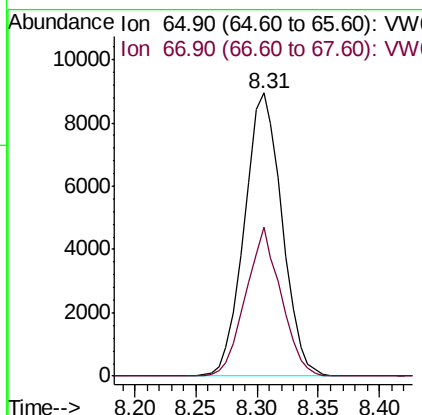
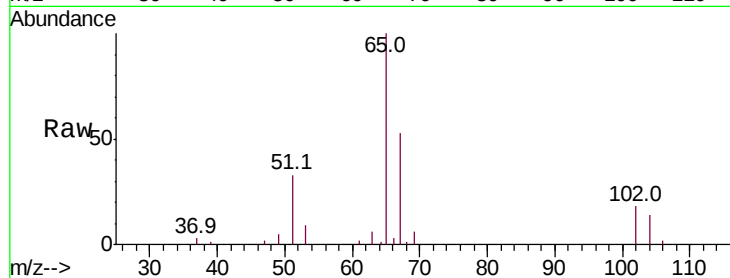




#33  
 1,2-Dichloroethane-d4  
 Concen: 42.857 ug/l  
 RT: 8.31 min Scan# 1050  
 Delta R.T. -0.00 min  
 Lab File: VW007468.D  
 Acq: 13 Dec 2018 04:49

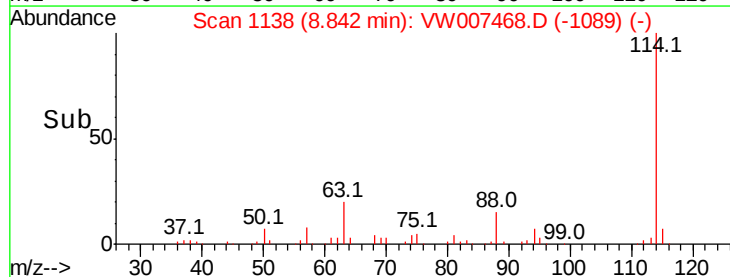
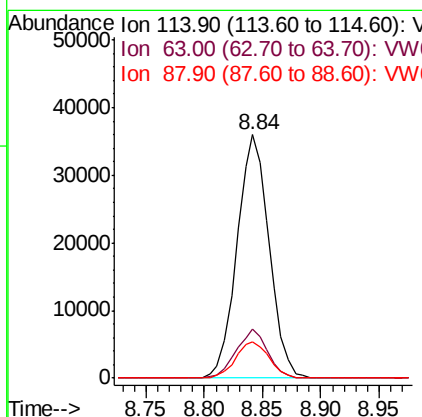
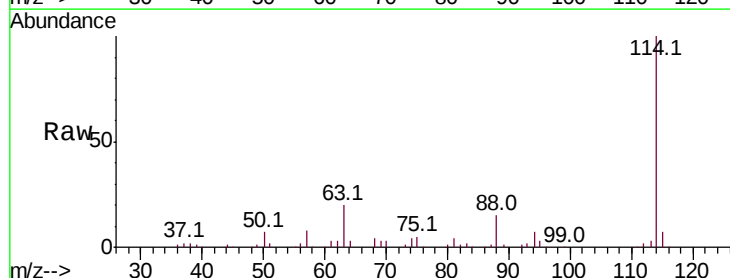
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SB-10A

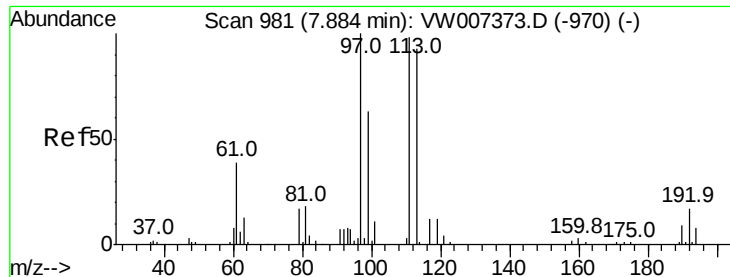
Tot Ion: 65 Resp: 19159  
 Ion Ratio Lower Upper  
 65 100  
 67 49.4 0.0 101.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. -0.00 min  
 Lab File: VW007468.D  
 Acq: 13 Dec 2018 04:49

Tgt Ion: 114 Resp: 69019  
 Ion Ratio Lower Upper  
 114 100  
 63 20.3 0.0 39.6  
 88 15.0 0.0 31.4





#35

Dibromofluoromethane

Concen: 40.321 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW007468.D

Acq: 13 Dec 2018 04:49

Instrument :

MSVOA\_W

ClientSampleId :

SB-10A

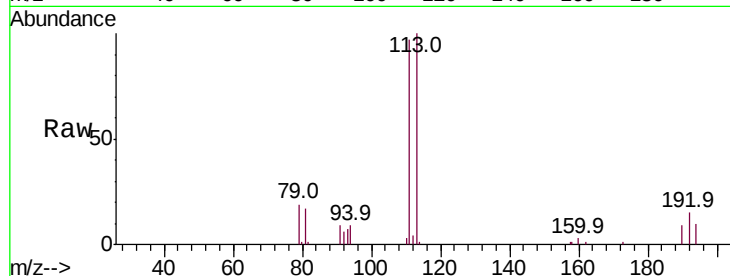
Tot Ion:113 Resp: 16846

Ion Ratio Lower Upper

113 100

111 102.4 81.1 121.7

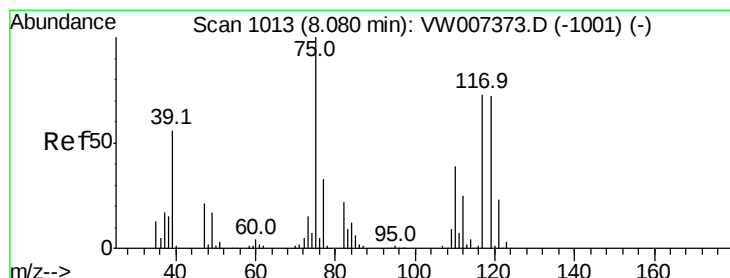
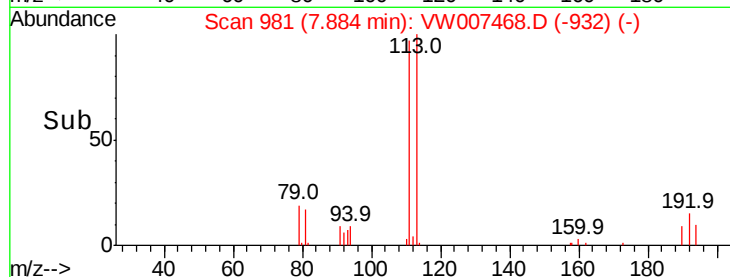
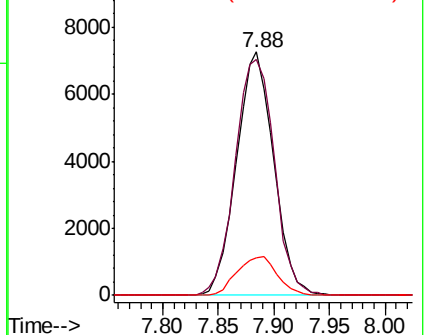
192 17.3 14.6 21.8



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: 5.318 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.14 min

Lab File: VW007468.D

Acq: 13 Dec 2018 04:49

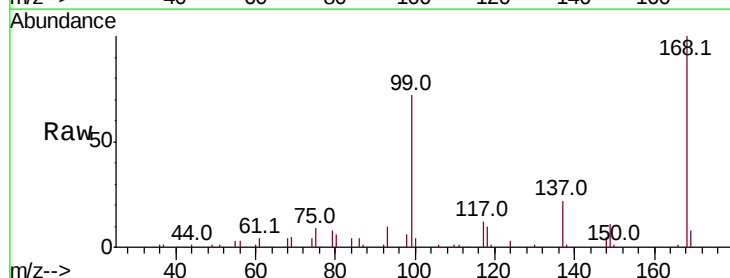
Tgt Ion: 75 Resp: 3348

Ion Ratio Lower Upper

75 100

110 6.9 18.5 55.5#

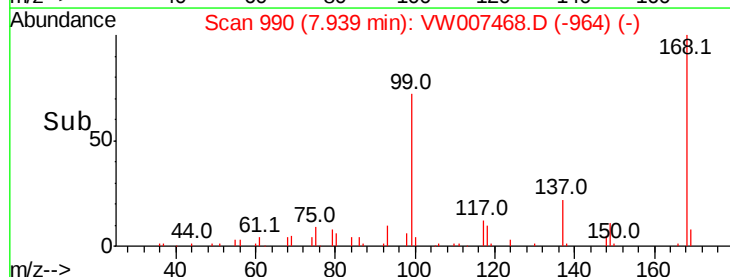
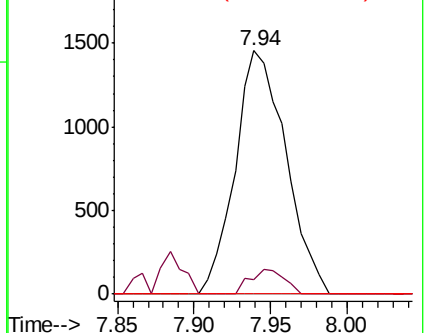
77 0.0 25.6 38.4#

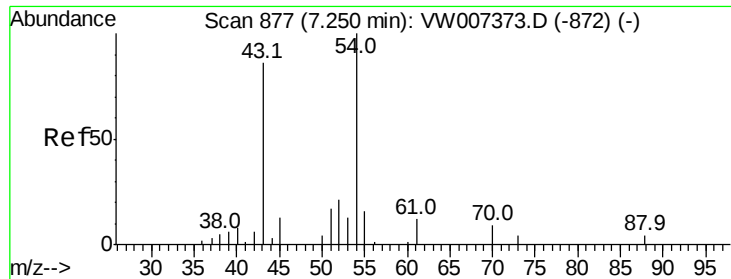


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW

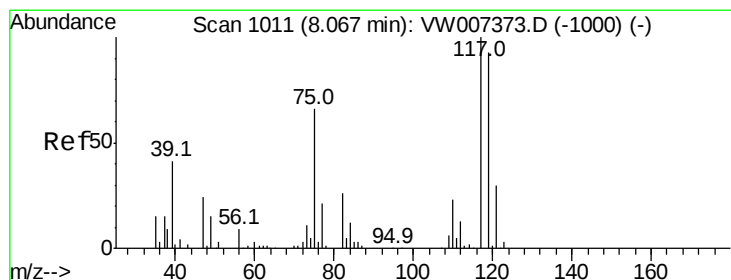
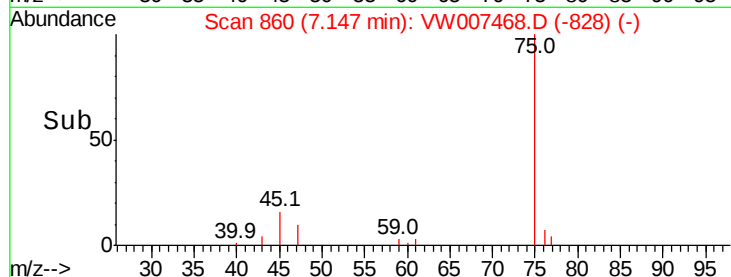
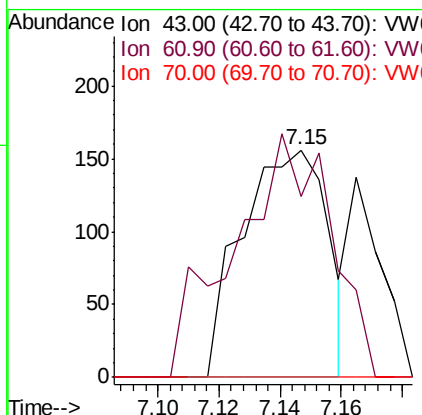
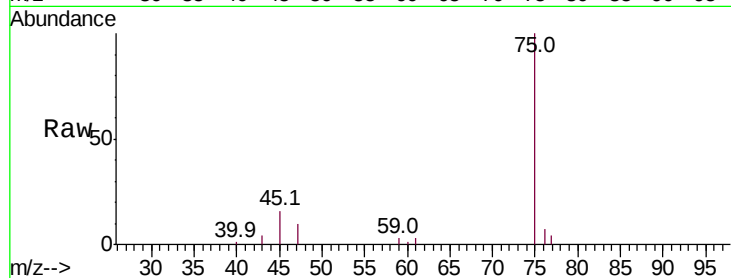




#37  
Ethyl Acetate  
Concen: 1.302 ug/l  
RT: 7.15 min Scan# 860  
Delta R.T. -0.10 min  
Lab File: VW007468.D  
Acq: 13 Dec 2018 04:49

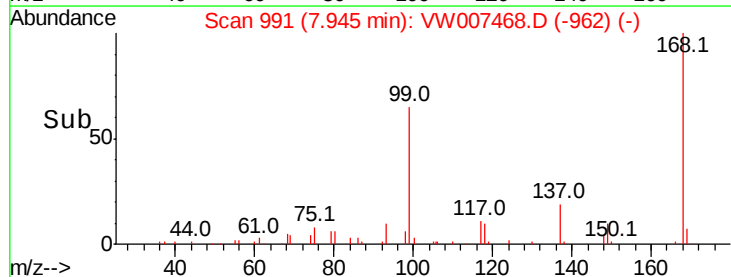
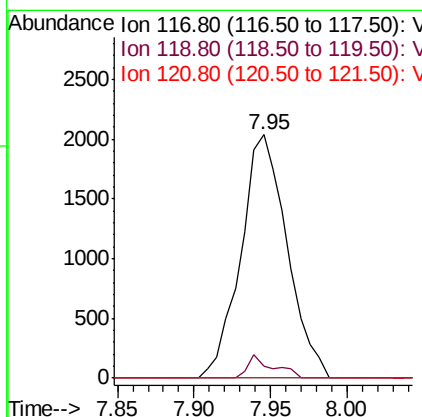
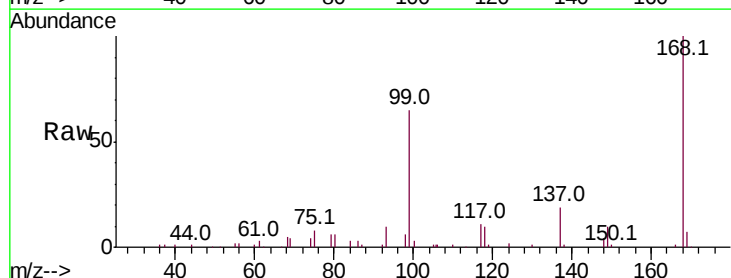
Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-10A

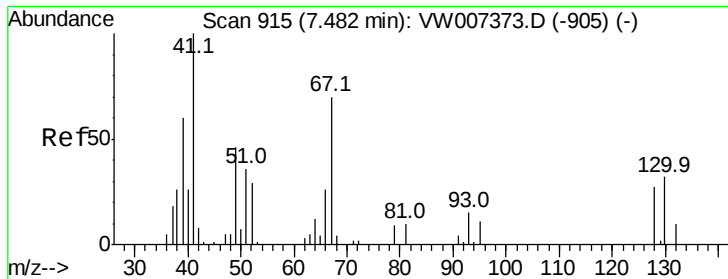
Tot Ion: 43 Resp: 305  
Ion Ratio Lower Upper  
43 100  
61 120.0 12.1 18.1#  
70 0.0 10.0 15.0#



#38  
Carbon Tetrachloride  
Concen: 6.236 ug/l  
RT: 7.95 min Scan# 991  
Delta R.T. -0.12 min  
Lab File: VW007468.D  
Acq: 13 Dec 2018 04:49

Tgt Ion: 117 Resp: 4272  
Ion Ratio Lower Upper  
117 100  
119 4.8 74.3 111.5#  
121 0.0 24.3 36.5#





#41

Methacrylonitrile

Concen: 1.192 ug/l

RT: 7.46 min Scan# 911

Delta R.T. -0.02 min

Lab File: VW007468.D

Acq: 13 Dec 2018 04:49

Instrument :

MSVOA\_W

ClientSampled :

SB-10A

Tot Ion: 41 Resp: 159

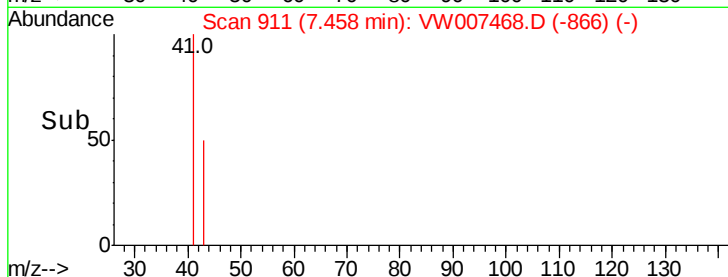
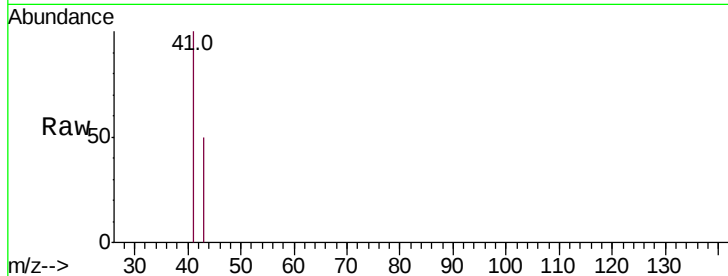
Ion Ratio Lower Upper

41 100

39 11.3 52.2 78.2#

67 0.0 60.5 90.7#

52 0.0 25.3 37.9#

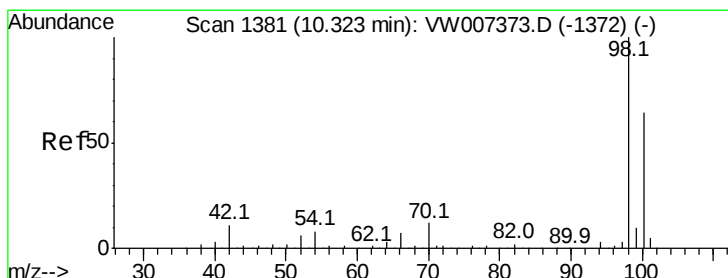
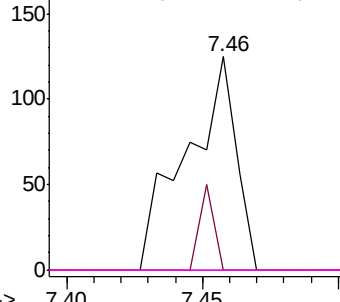


Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

Ion 67.00 (66.70 to 67.70): VW

Ion 52.00 (51.70 to 52.70): VW



#50

Toluene-d8

Concen: 29.628 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW007468.D

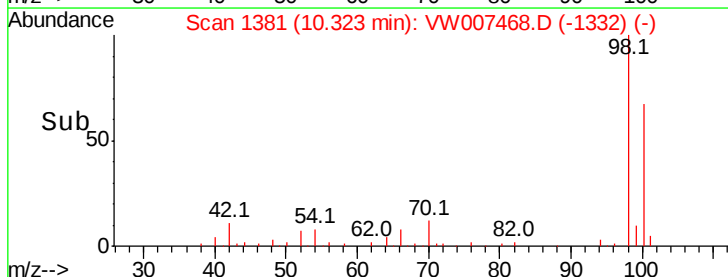
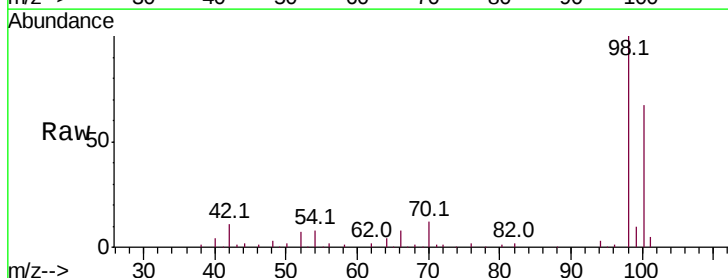
Acq: 13 Dec 2018 04:49

Tgt Ion: 98 Resp: 46412

Ion Ratio Lower Upper

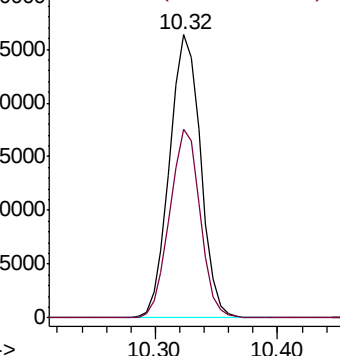
98 100

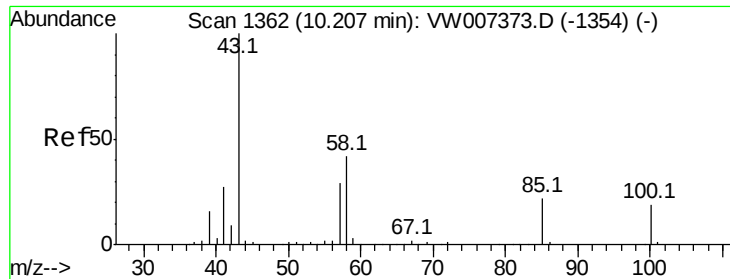
100 64.9 51.8 77.8



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#51

4-Methyl-2-Pentanone

Concen: 1.665 ug/l

RT: 10.21 min Scan# 1362

Delta R.T. -0.00 min

Lab File: VW007468.D

Acq: 13 Dec 2018 04:49

Instrument :

MSVOA\_W

ClientSampleId :

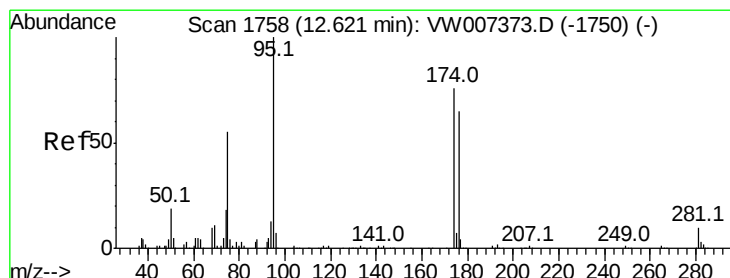
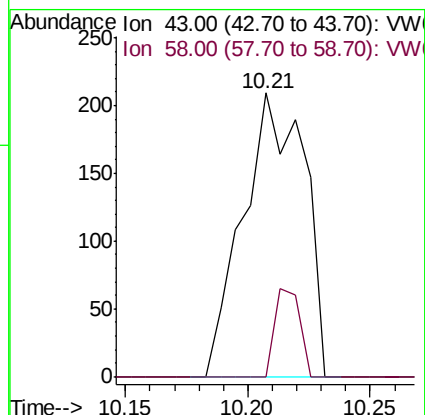
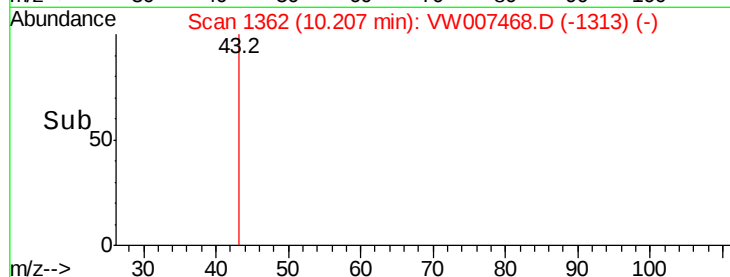
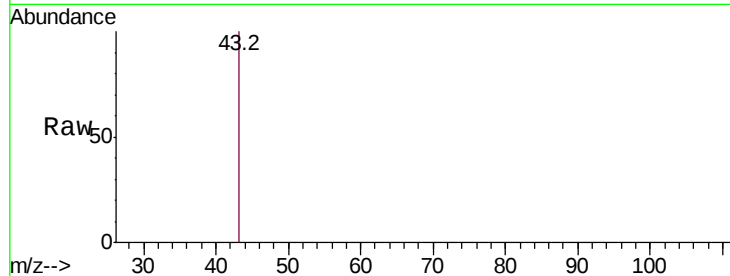
SB-10A

Tot Ion: 43 Resp: 364

Ion Ratio Lower Upper

43 100

58 12.6 33.1 49.7#



#62

4-Bromofluorobenzene

Concen: 21.373 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW007468.D

Acq: 13 Dec 2018 04:49

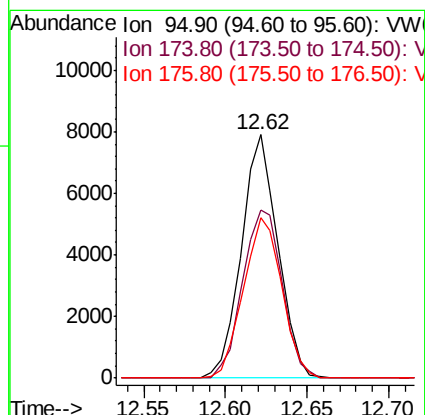
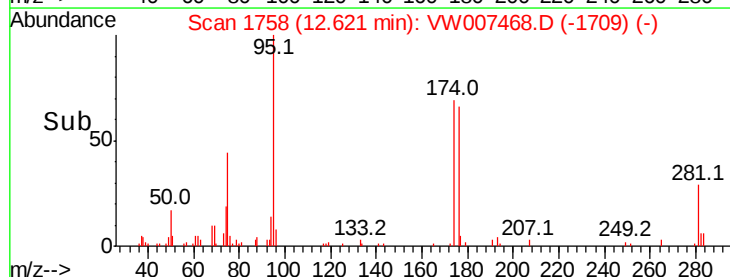
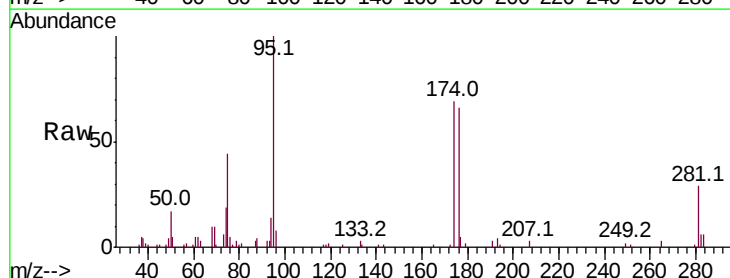
Tgt Ion: 95 Resp: 12310

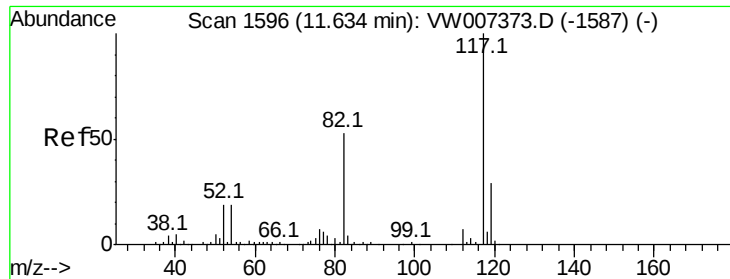
Ion Ratio Lower Upper

95 100

174 74.8 0.0 147.2

176 69.7 0.0 138.8

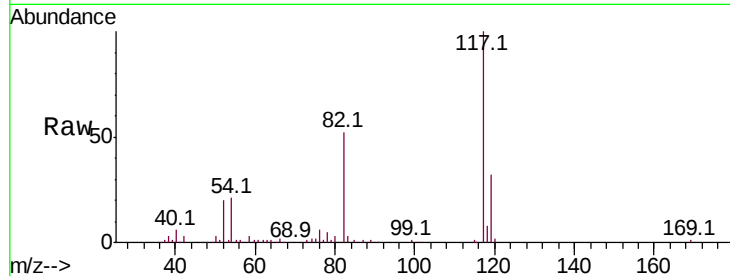




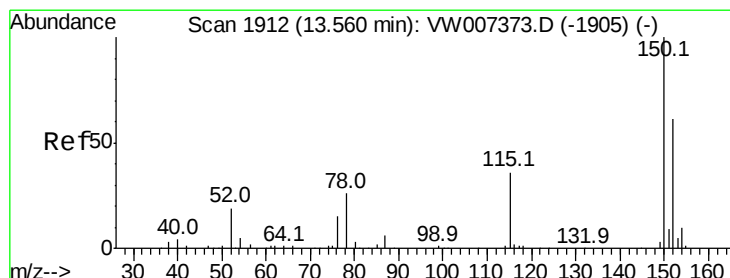
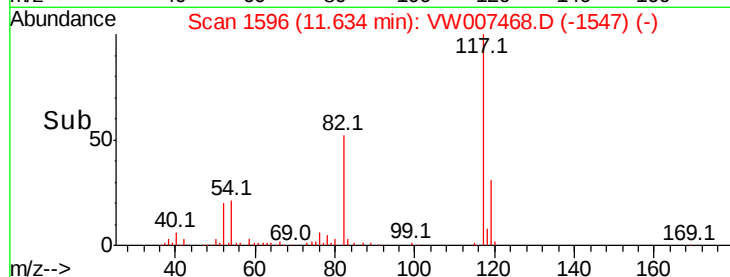
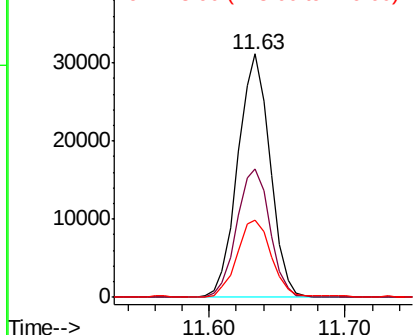
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. -0.00 min  
Lab File: VW007468.D  
Acq: 13 Dec 2018 04:49

Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-10A

Tot Ion:117 Resp: 51592  
Ion Ratio Lower Upper  
117 100  
82 52.5 42.3 63.5  
119 31.2 23.0 34.6

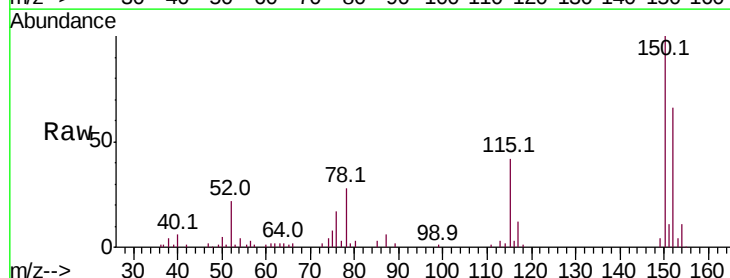


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

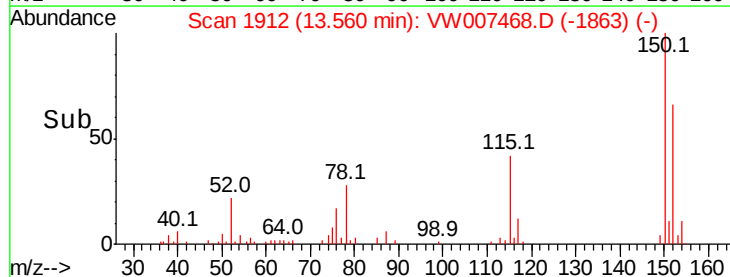
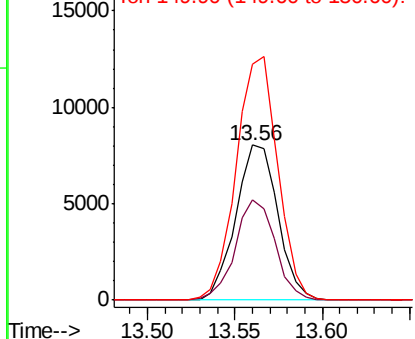


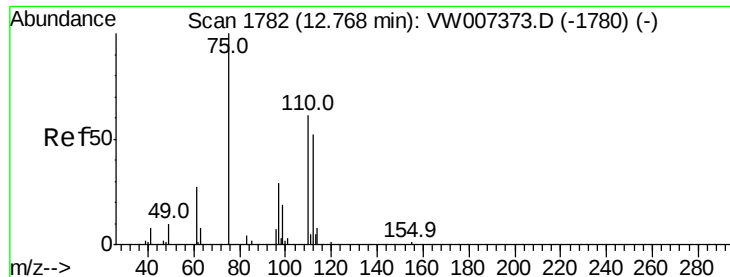
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. -0.00 min  
Lab File: VW007468.D  
Acq: 13 Dec 2018 04:49

Tgt Ion:152 Resp: 13467  
Ion Ratio Lower Upper  
152 100  
115 61.1 31.4 94.2  
150 154.3 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: 55.476 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW007468.D

Acq: 13 Dec 2018 04:49

Instrument :

MSVOA\_W

ClientSampleId :

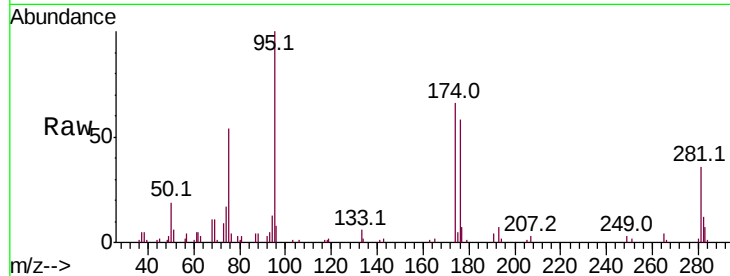
SB-10A

Tot Ion: 75 Resp: 6160

Ion Ratio Lower Upper

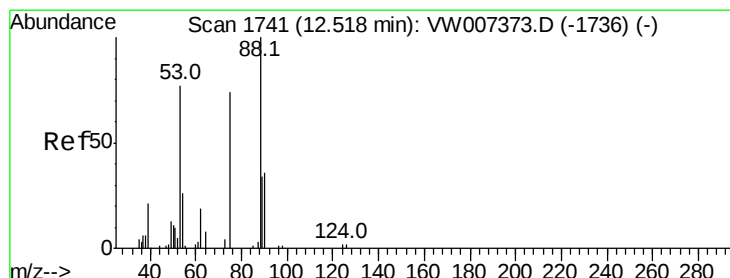
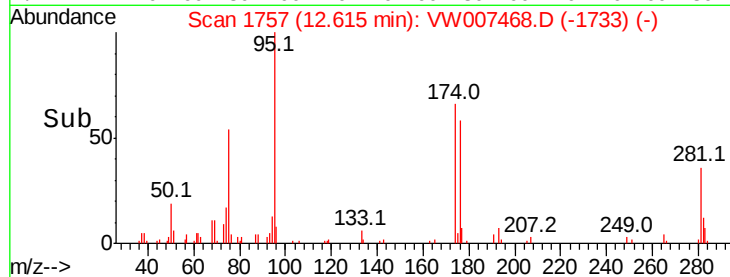
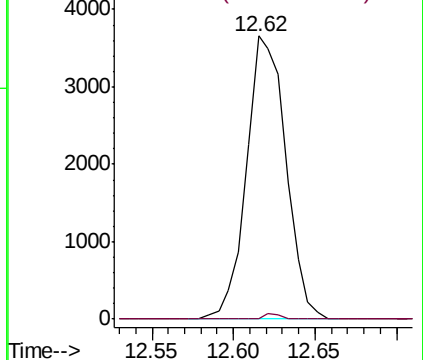
75 100

77 0.8 166.9 500.8#



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: 122.547 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW007468.D

Acq: 13 Dec 2018 04:49

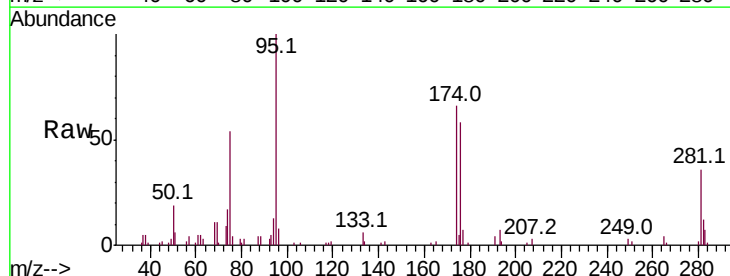
Tgt Ion: 75 Resp: 6160

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

