

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW081619\  
 Data File : VW011945.D  
 Acq On : 15 Aug 2019 23:27  
 Operator : SY/VA  
 Sample : K4339-09  
 Misc : 5.45G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 T8-A4-(4)

Quant Time: Aug 16 04:37:01 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W072719S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jul 27 00:23:30 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 85304    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 152449   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 105869   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 24721    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 8.31   | 65  | 57089    | 58.28 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 116.56% |      |
| 35) Dibromofluoromethane    | 7.88   | 113 | 46383    | 54.23 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 108.46% |      |
| 50) Toluene-d8              | 10.32  | 98  | 129161   | 36.89 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 73.78%  |      |
| 62) 4-Bromofluorobenzene    | 12.62  | 95  | 31822    | 25.49 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 50.98%  |      |

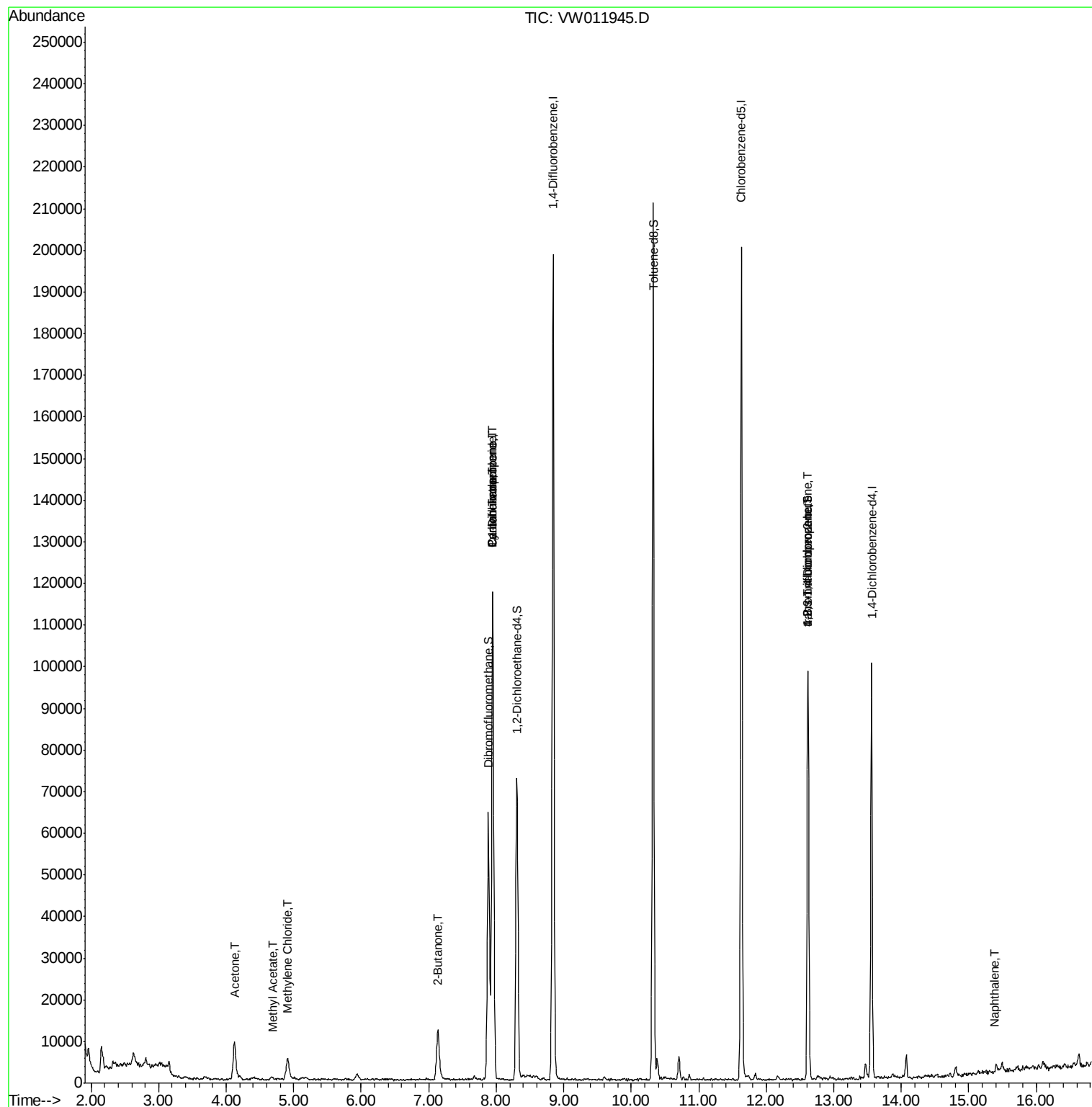
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 5.15  | 59   | 54       | Below Cal | #      | 25     |
| 16) Acetone                    | 4.12  | 43   | 16980    | 54.495    | ug/l   | 94     |
| 18) Methyl Acetate             | 4.68  | 43   | 1814     | 2.592     | ug/l # | 89     |
| 20) Methylene Chloride         | 4.92  | 84   | 3528     | 3.283     | ug/l   | 83     |
| 25) 2-Butanone                 | 7.13  | 43   | 468      | 1.148     | ug/l # | 56     |
| 31) Cyclohexane                | 7.95  | 56   | 2159     | 1.179     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 7492     | 4.726     | ug/l # | 52     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 8632     | 6.361     | ug/l # | 16     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 17399    | 66.516    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 17399    | 153.296   | ug/l # | 6      |
| 95) Naphthalene                | 15.38 | 128  | 467      | 2.525     | ug/l # | 82     |

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW081619\  
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T8-A4-(4)

Quant Time: Aug 16 04:37:01 2019  
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Quant Title : SW846 8260  
QLast Update : Sat Jul 27 00:23:30 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: VW011945.D

Acq: 15 Aug 2019 23:27

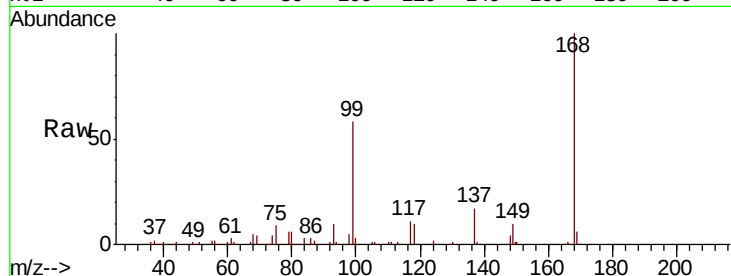
Instrument :  
MSVOA\_W  
ClientSampled :  
T8-A4-(4)

Tgt Ion:168 Resp: 85304

Ion Ratio Lower Upper

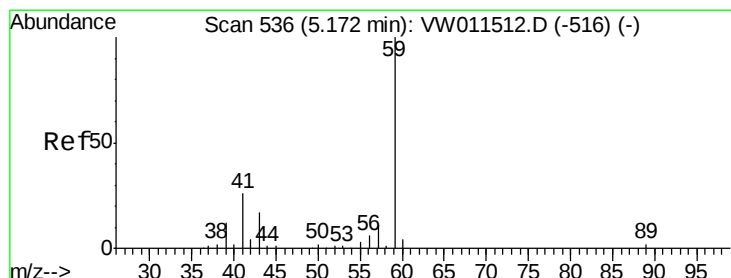
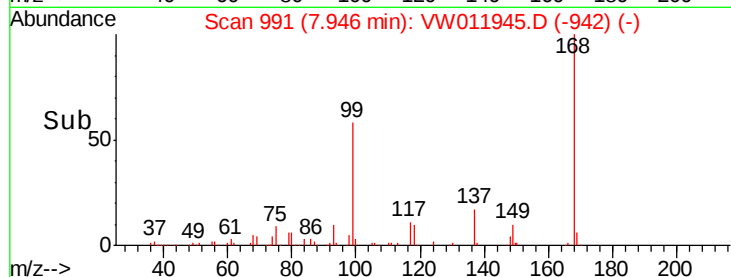
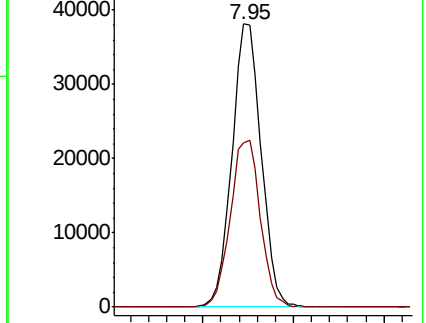
168 100

99 58.3 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.15 min Scan# 533

Delta R.T. -0.02 min

Lab File: VW011945.D

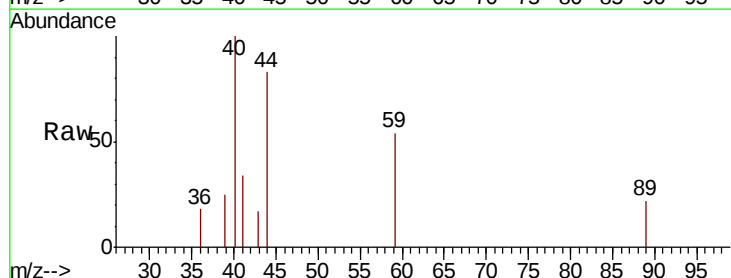
Acq: 15 Aug 2019 23:27

Tgt Ion: 59 Resp: 54

Ion Ratio Lower Upper

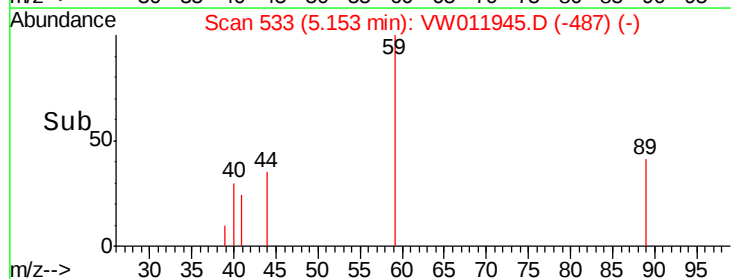
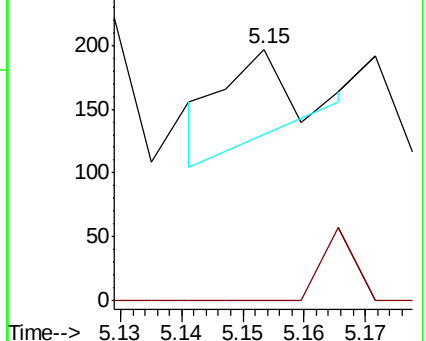
59 100

57 38.9 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#16

Acetone

Concen: 54.495 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW011945.D

Acq: 15 Aug 2019 23:27

Instrument :

MSVOA\_W

ClientSampleId :

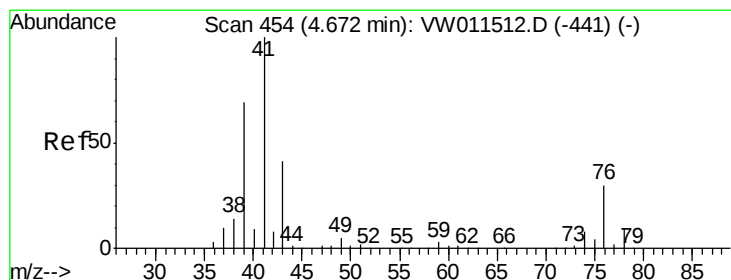
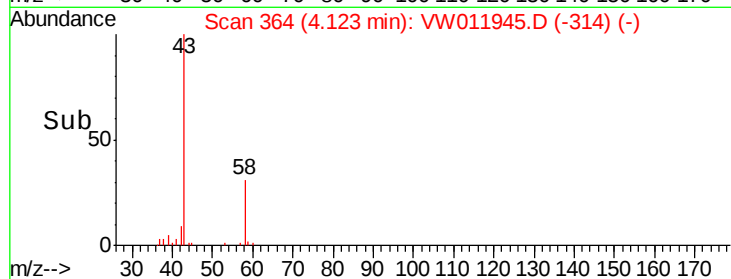
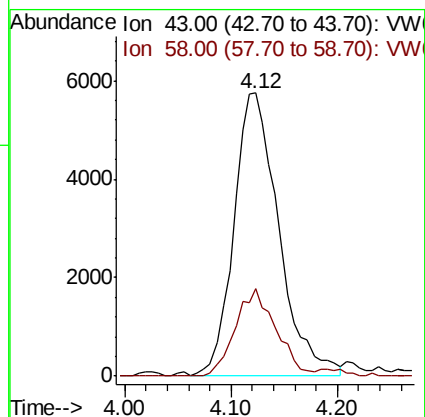
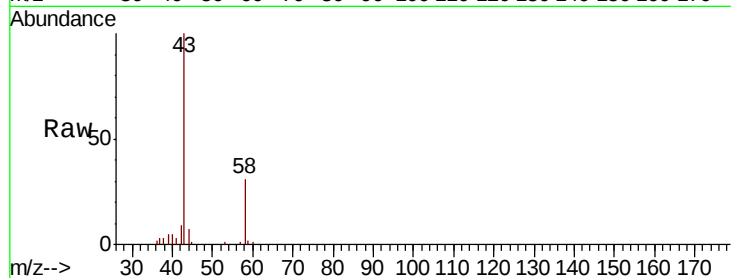
T8-A4-(4)

Tgt Ion: 43 Resp: 16980

Ion Ratio Lower Upper

43 100

58 31.0 22.3 33.5



#18

Methyl Acetate

Concen: 2.592 ug/l

RT: 4.68 min Scan# 456

Delta R.T. 0.01 min

Lab File: VW011945.D

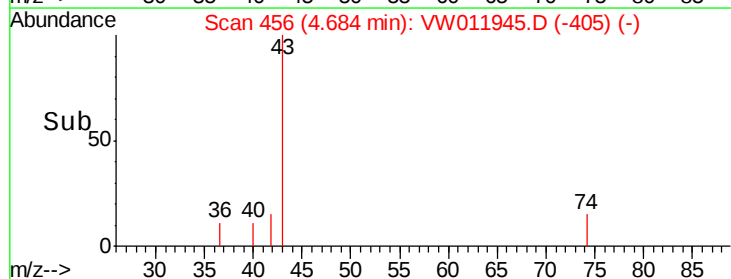
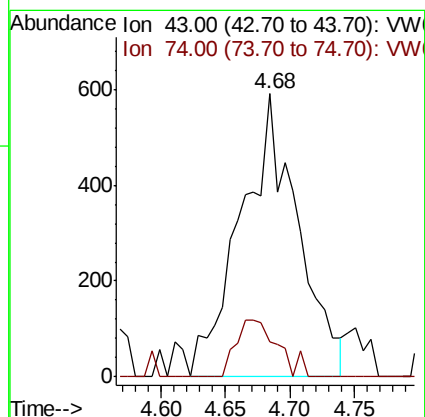
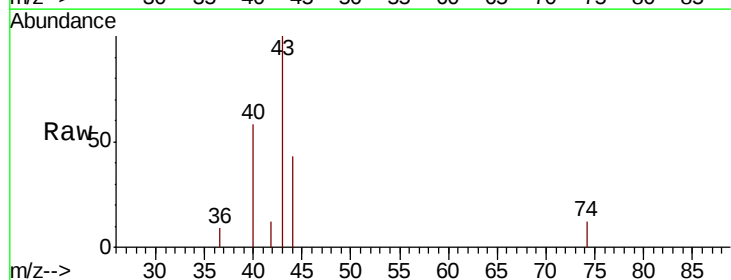
Acq: 15 Aug 2019 23:27

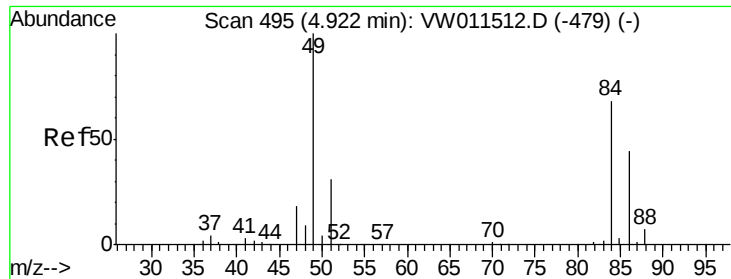
Tgt Ion: 43 Resp: 1814

Ion Ratio Lower Upper

43 100

74 14.7 15.9 23.9#

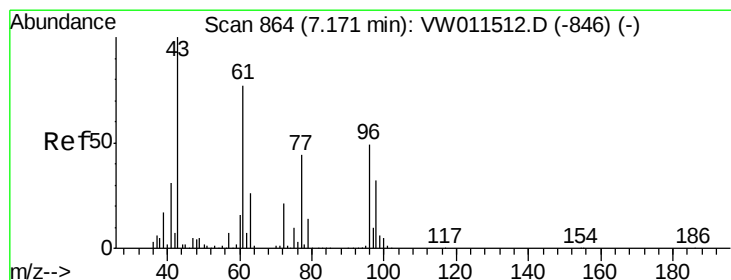
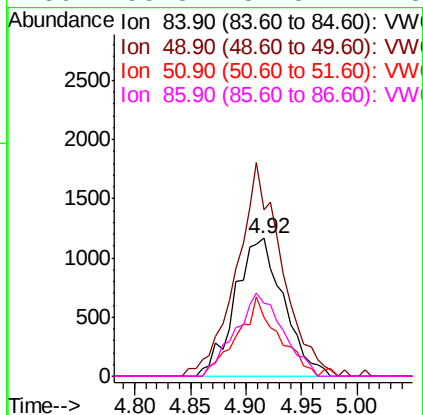
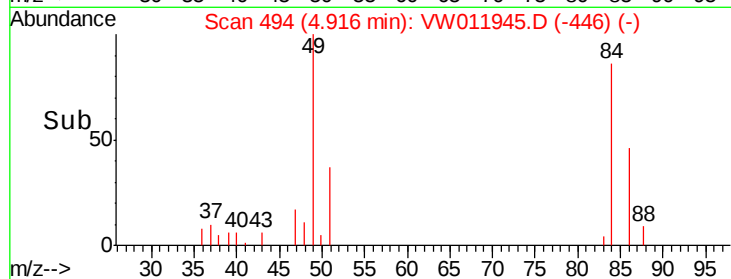
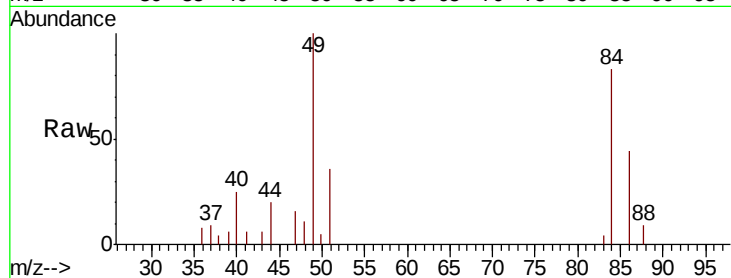




#20  
Methylene Chloride  
Concen: 3.283 ug/l  
RT: 4.92 min Scan# 494  
Delta R.T. -0.01 min  
Lab File: VW011945.D  
Acq: 15 Aug 2019 23:27

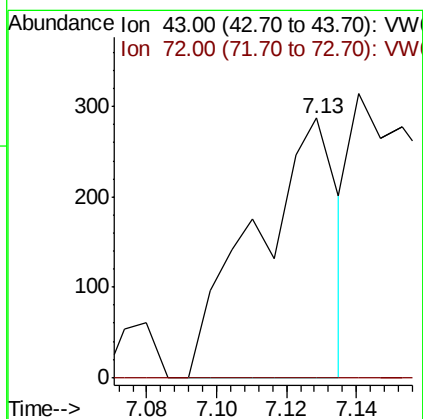
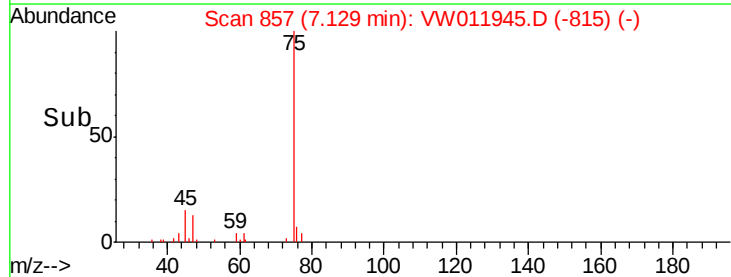
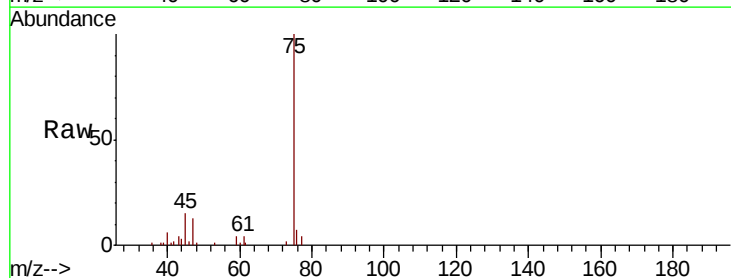
Instrument :  
MSVOA\_W  
ClientSampleId :  
T8-A4-(4)

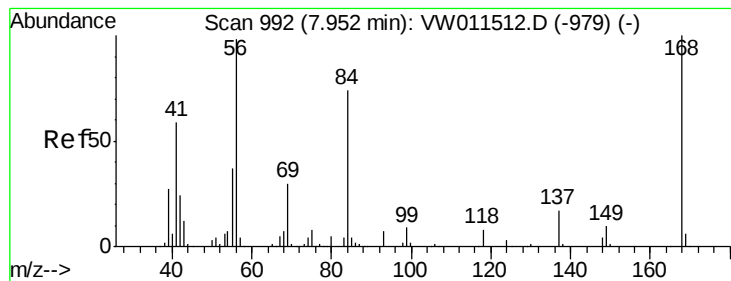
Tgt Ion: 84 Resp: 3528  
Ion Ratio Lower Upper  
84 100  
49 120.8 117.8 176.6  
51 42.9 37.0 55.4  
86 53.3 51.8 77.8



#25  
2-Butanone  
Concen: 1.148 ug/l  
RT: 7.13 min Scan# 857  
Delta R.T. -0.04 min  
Lab File: VW011945.D  
Acq: 15 Aug 2019 23:27

Tgt Ion: 43 Resp: 468  
Ion Ratio Lower Upper  
43 100  
72 0.0 16.6 24.8#





#31

Cyclohexane

Concen: 1.179 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW011945.D

Acq: 15 Aug 2019 23:27

Instrument :

MSVOA\_W

ClientSampled :

T8-A4-(4)

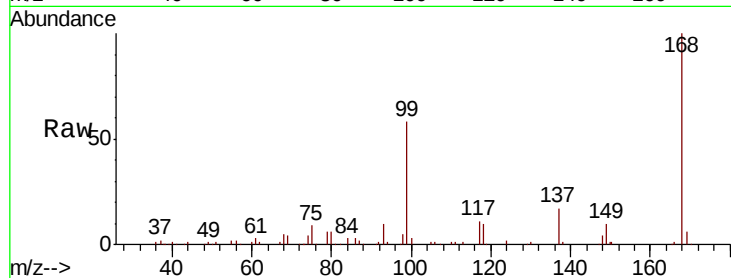
Tgt Ion: 56 Resp: 2159

Ion Ratio Lower Upper

56 100

69 184.0 24.3 36.5#

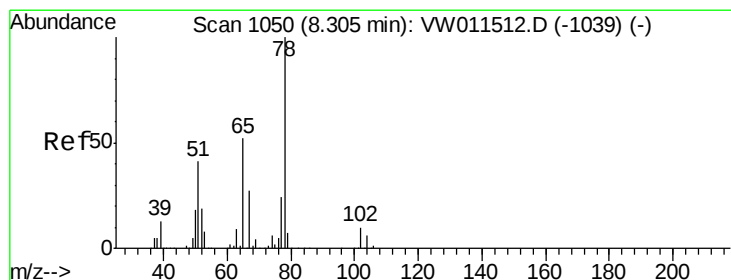
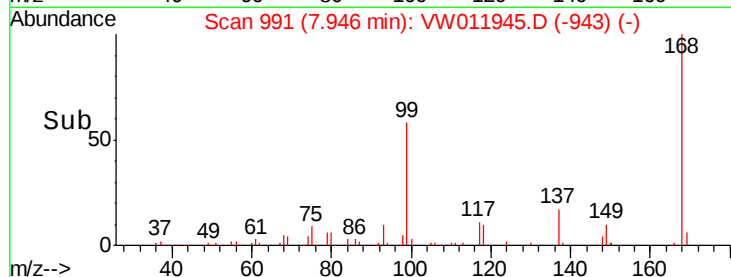
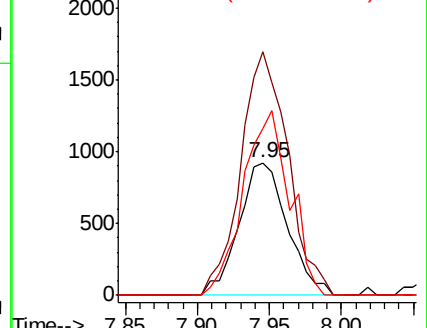
84 126.0 60.4 90.6#



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: 58.282 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW011945.D

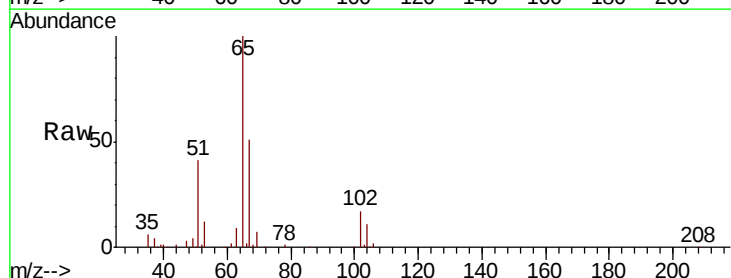
Acq: 15 Aug 2019 23:27

Tgt Ion: 65 Resp: 57089

Ion Ratio Lower Upper

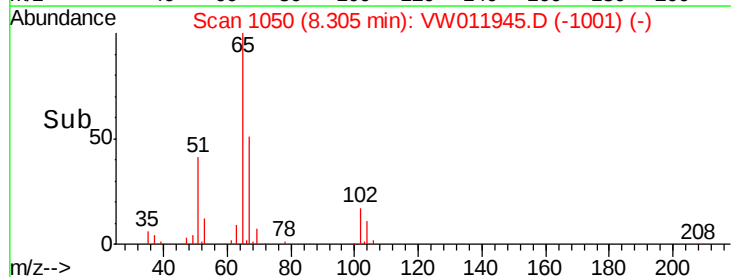
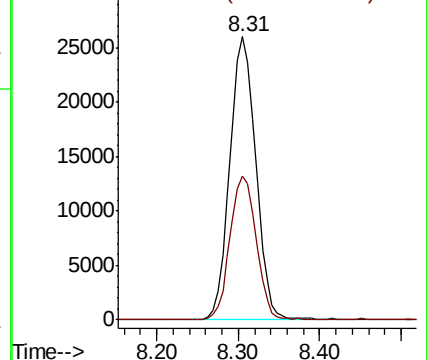
65 100

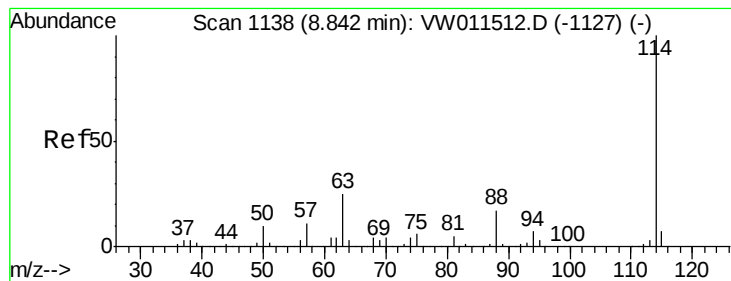
67 51.5 0.0 105.2



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: VW011945.D

Acq: 15 Aug 2019 23:27

Instrument :

MSVOA\_W

ClientSampleId :

T8-A4-(4)

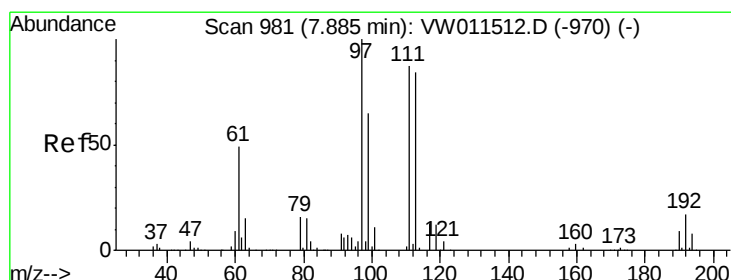
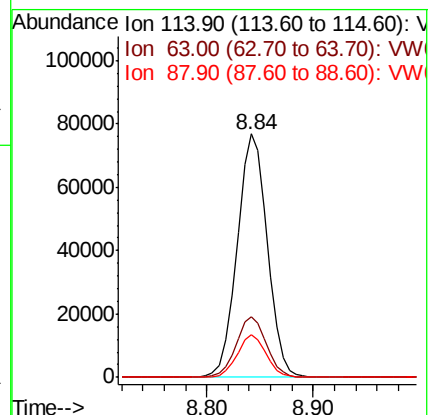
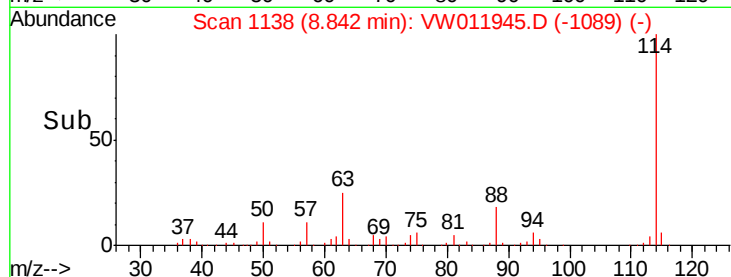
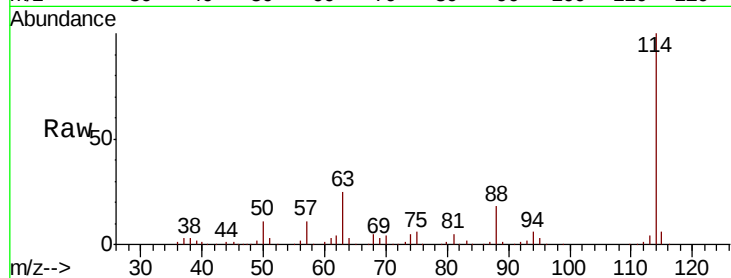
Tgt Ion:114 Resp: 152449

Ion Ratio Lower Upper

114 100

63 25.0 0.0 49.2

88 17.6 0.0 33.8



#35

Dibromofluoromethane

Concen: 54.232 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.00 min

Lab File: VW011945.D

Acq: 15 Aug 2019 23:27

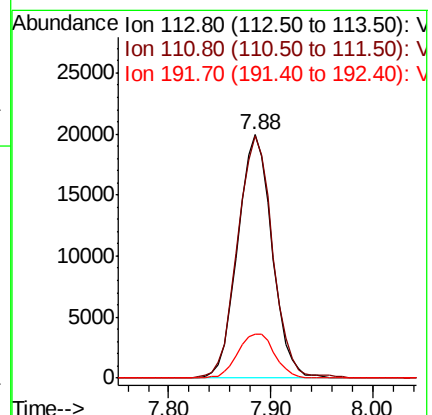
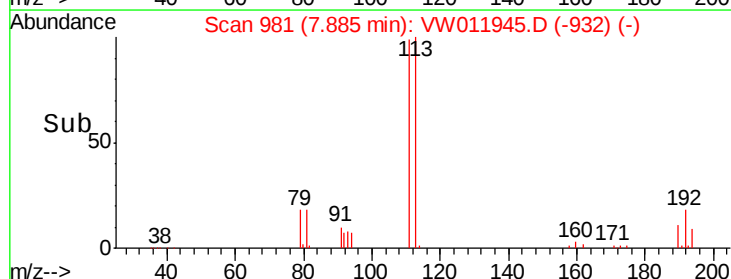
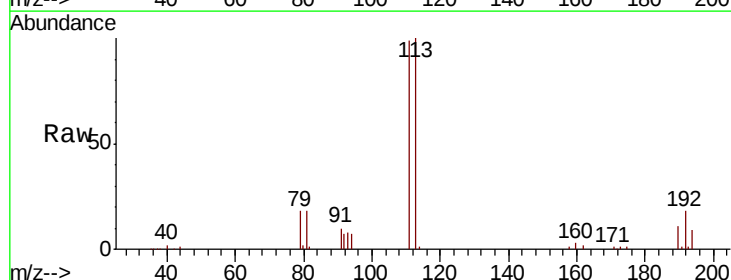
Tgt Ion:113 Resp: 46383

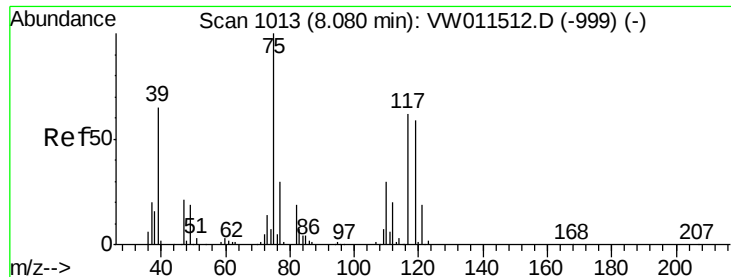
Ion Ratio Lower Upper

113 100

111 102.2 82.7 124.1

192 19.6 16.1 24.1

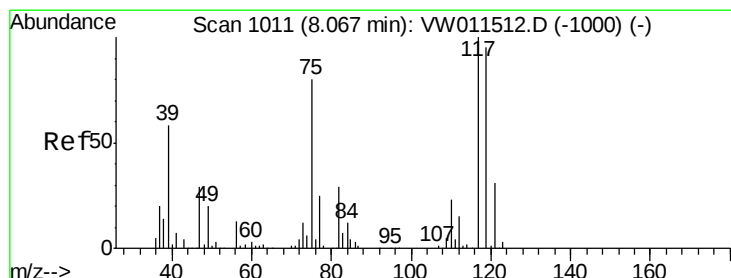
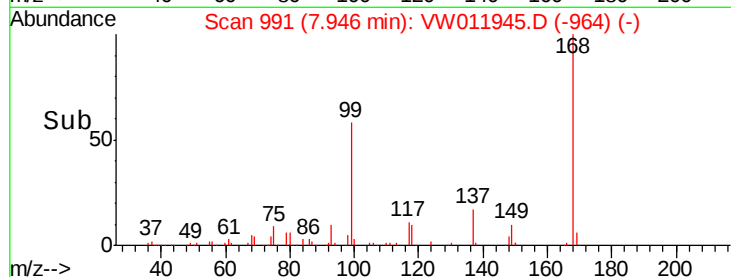
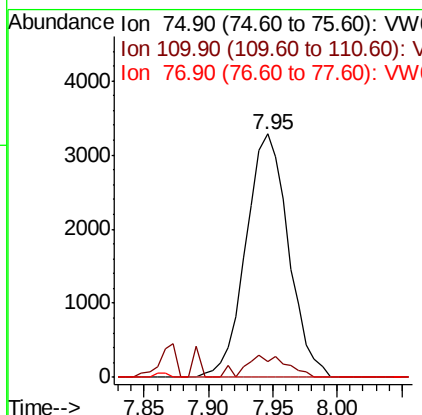
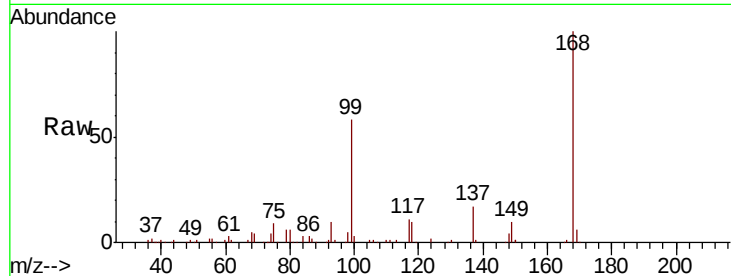




#36  
 1,1-Dichloropropene  
 Concen: 4.726 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.13 min  
 Lab File: VW011945.D  
 Acq: 15 Aug 2019 23:27

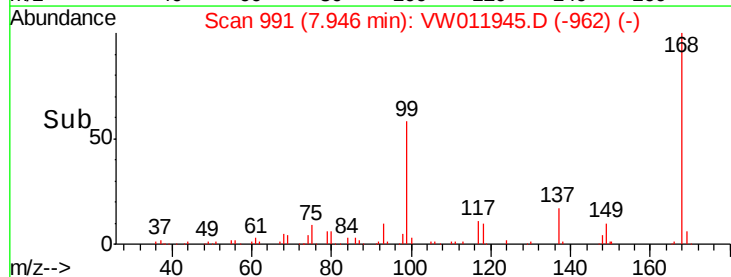
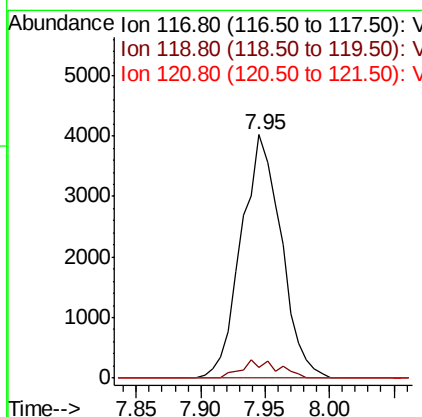
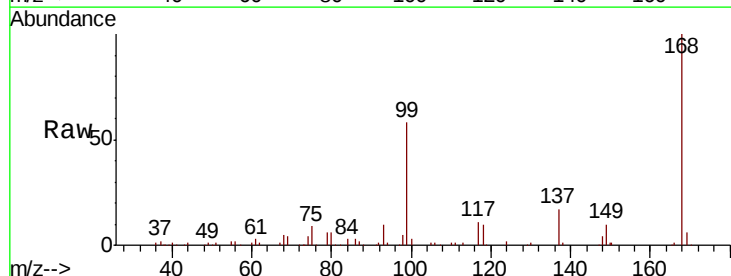
Instrument :  
 MSVOA\_W  
 ClientSampled :  
 T8-A4-(4)

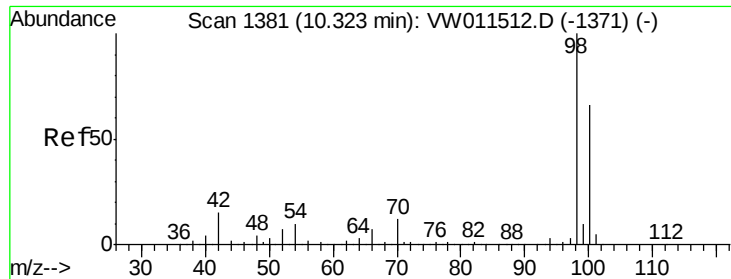
Tgt Ion: 75 Resp: 7492  
 Ion Ratio Lower Upper  
 75 100  
 110 8.9 15.6 46.8#  
 77 0.0 24.3 36.5#



#38  
 Carbon Tetrachloride  
 Concen: 6.361 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.12 min  
 Lab File: VW011945.D  
 Acq: 15 Aug 2019 23:27

Tgt Ion: 117 Resp: 8632  
 Ion Ratio Lower Upper  
 117 100  
 119 4.5 75.8 113.6#  
 121 0.0 24.7 37.1#





#50

Toluene-d8

Concen: 36.885 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW011945.D

Acq: 15 Aug 2019 23:27

Instrument :

MSVOA\_W

ClientSampleId :

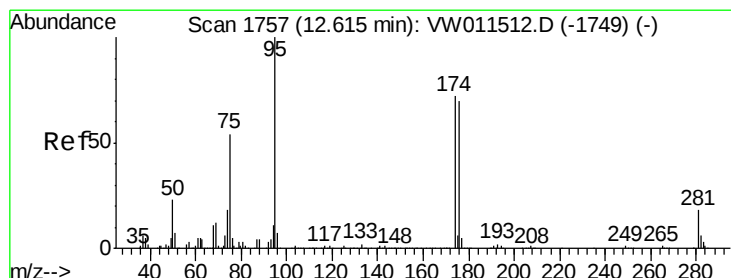
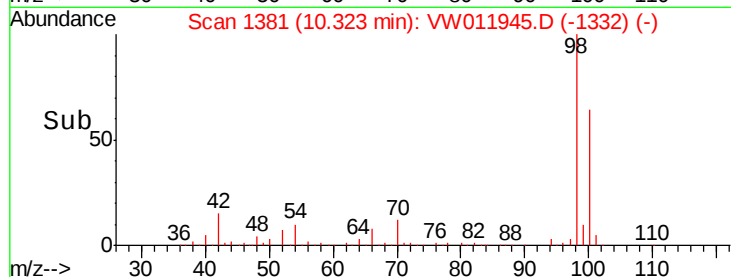
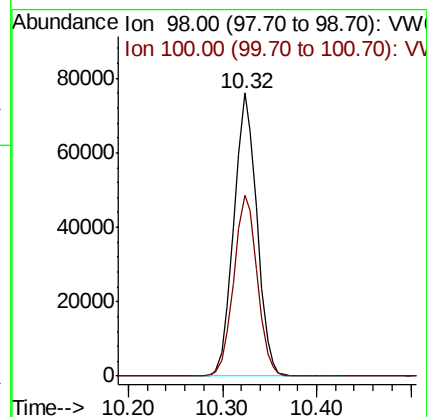
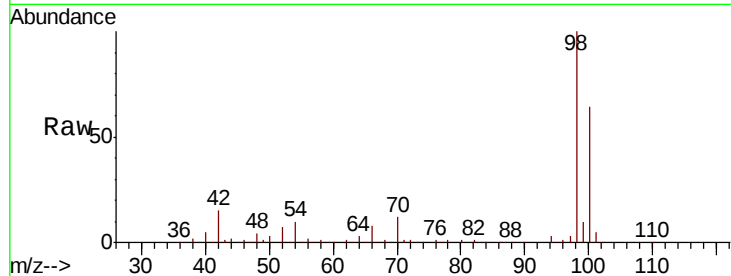
T8-A4-(4)

Tgt Ion: 98 Resp: 129161

Ion Ratio Lower Upper

98 100

100 65.1 52.7 79.1



#62

4-Bromofluorobenzene

Concen: 25.490 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.00 min

Lab File: VW011945.D

Acq: 15 Aug 2019 23:27

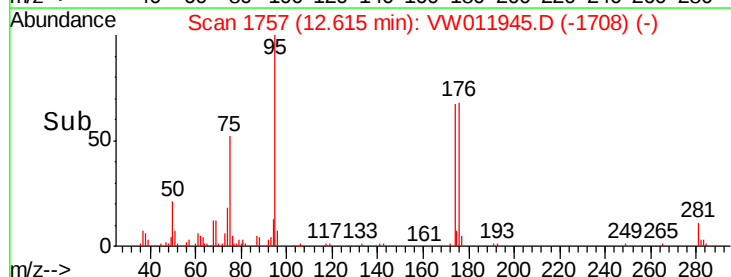
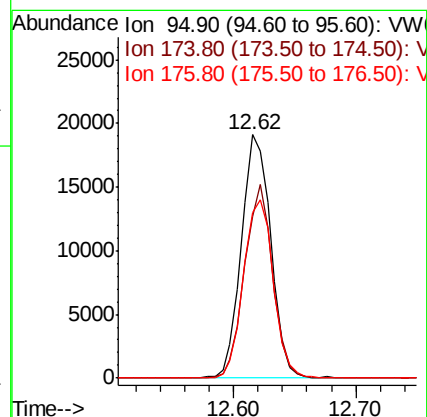
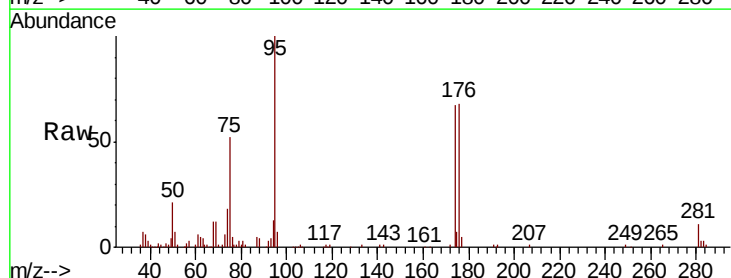
Tgt Ion: 95 Resp: 31822

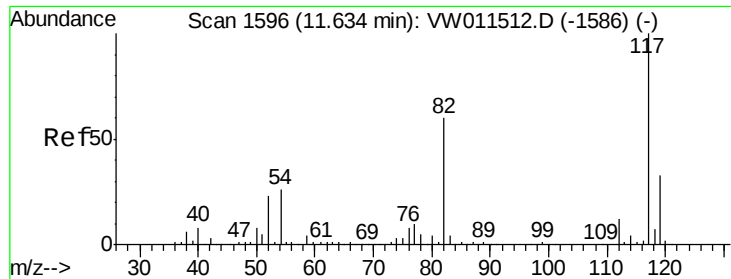
Ion Ratio Lower Upper

95 100

174 75.7 0.0 150.2

176 74.6 0.0 144.4

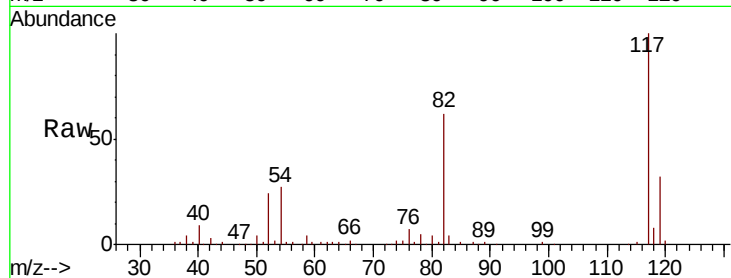




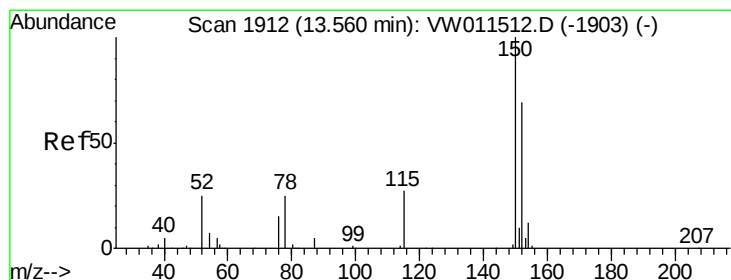
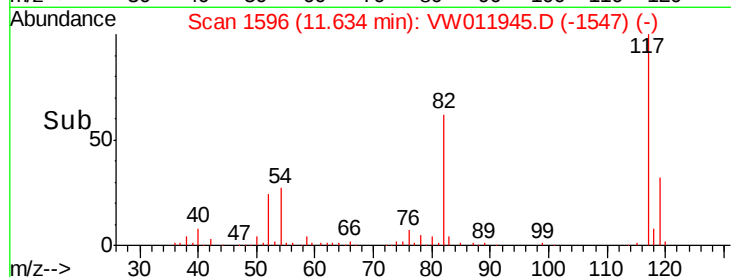
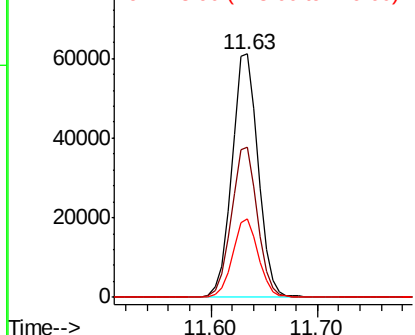
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. 0.00 min  
Lab File: VW011945.D  
Acq: 15 Aug 2019 23:27

Instrument :  
MSVOA\_W  
ClientSampleId :  
T8-A4-(4)

Tgt Ion:117 Resp: 105869  
Ion Ratio Lower Upper  
117 100  
82 61.6 47.9 71.9  
119 32.3 26.2 39.2

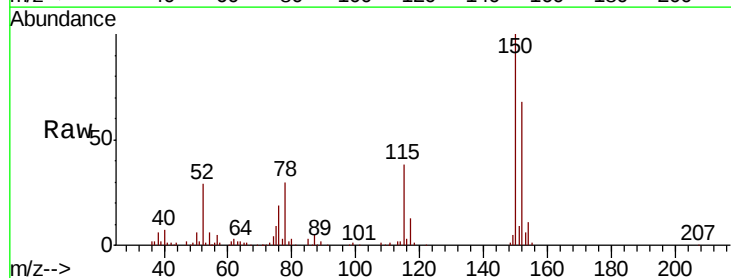


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VW  
Ion 118.90 (118.60 to 119.60): V

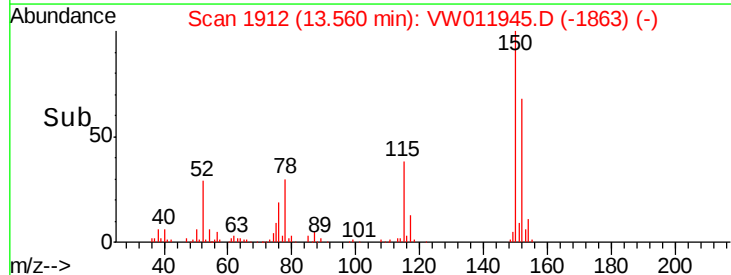
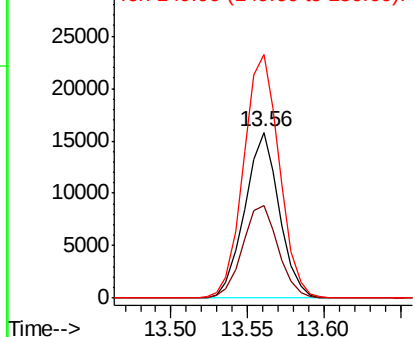


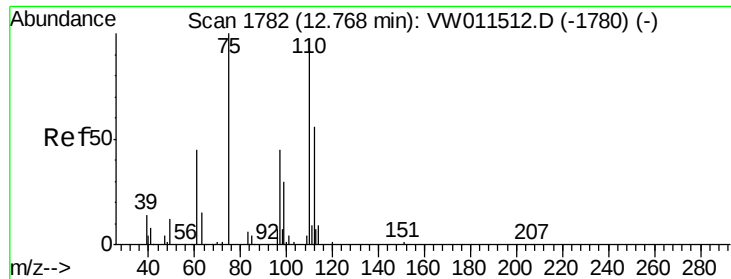
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. 0.00 min  
Lab File: VW011945.D  
Acq: 15 Aug 2019 23:27

Tgt Ion:152 Resp: 24721  
Ion Ratio Lower Upper  
152 100  
115 58.3 30.5 91.5  
150 152.6 0.0 352.6



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: 66.516 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW011945.D

Acq: 15 Aug 2019 23:27

Instrument :

MSVOA\_W

ClientSampleId :

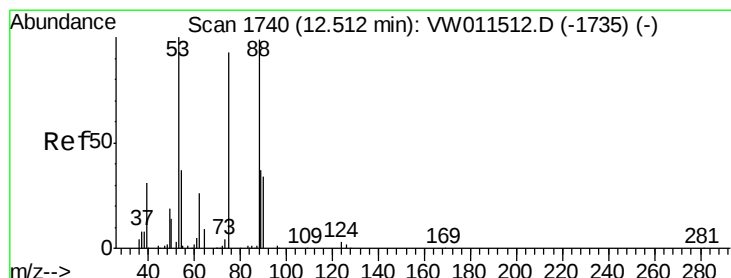
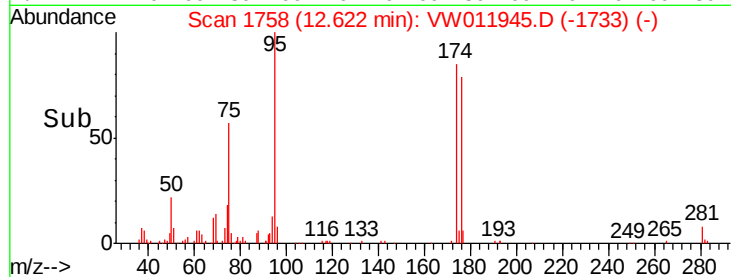
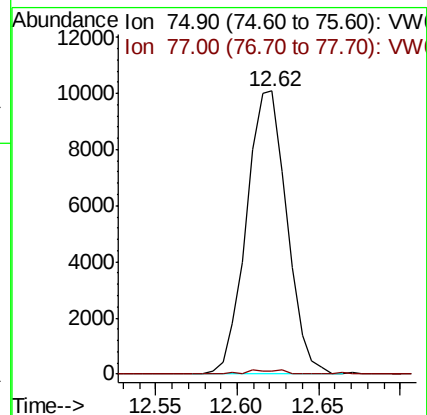
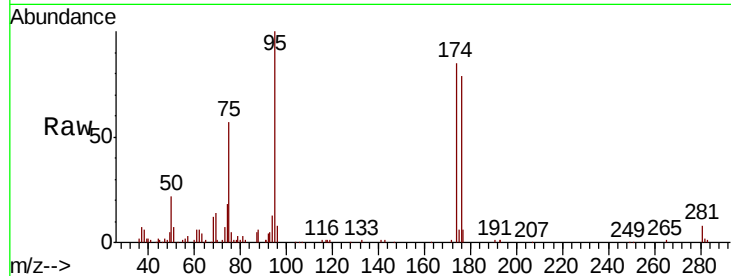
T8-A4-(4)

Tgt Ion: 75 Resp: 17399

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 153.296 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW011945.D

Acq: 15 Aug 2019 23:27

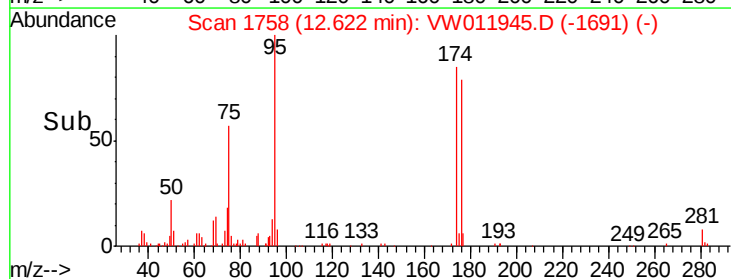
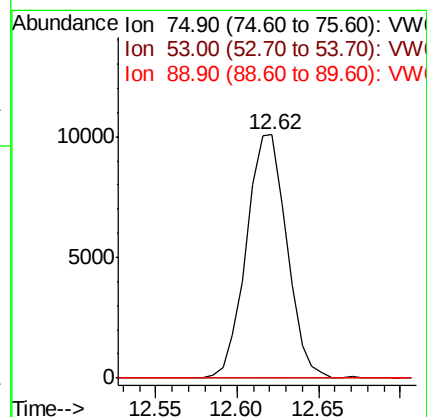
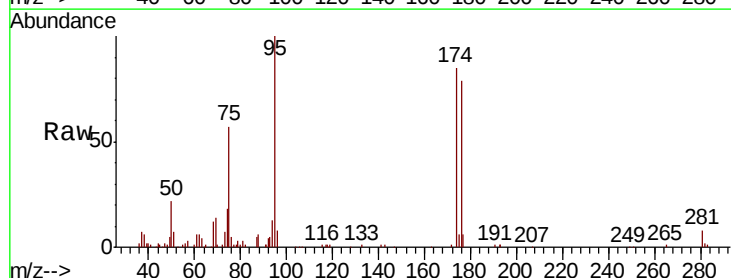
Tgt Ion: 75 Resp: 17399

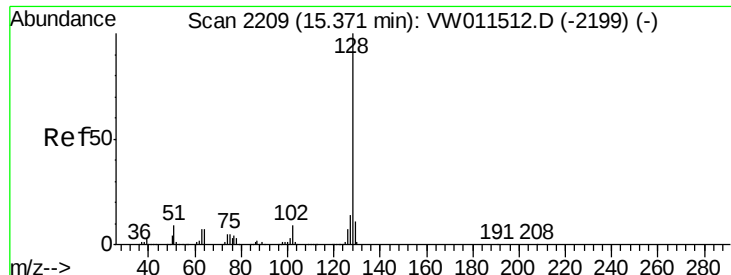
Ion Ratio Lower Upper

75 100

53 0.0 88.0 132.0#

89 0.0 35.3 52.9#





#95

Naphthalene

Concen: 2.525 ug/l

RT: 15.38 min Scan# 2210

Delta R.T. 0.01 min

Lab File: VW011945.D

Acq: 15 Aug 2019 23:27

Instrument :

MSVOA\_W

ClientSampleId :

T8-A4-(4)

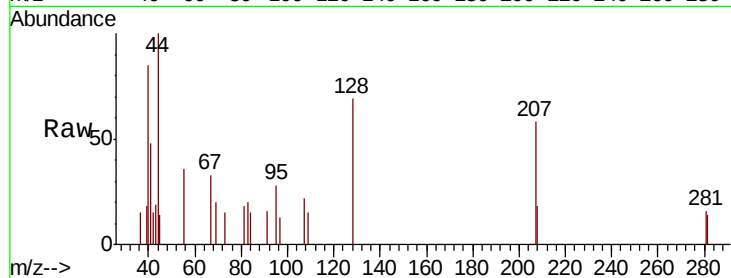
Tgt Ion:128 Resp: 467

Ion Ratio Lower Upper

128 100

127 9.4 10.6 16.0#

129 0.0 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

