

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW031919\  
 Data File : VW009260.D  
 Acq On : 20 Mar 2019 01:58  
 Operator : SY/VA  
 Sample : K1971-07  
 Misc : 3.29G/5ML/MSVOA W/SOIL  
 ALS Vial : 35 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SB-14(9-11)-031519

Quant Time: Mar 20 08:21:04 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W031919S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 20 07:22:50 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 88672    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 141898   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 134969   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 65296    | 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   | 62044    | 65.78 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 131.56% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 50571    | 56.18 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 112.36% |          |
| 50) Toluene-d8              | 10.32 | 98   | 177018   | 54.12 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 108.24% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 66386    | 55.27 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 110.54% |          |

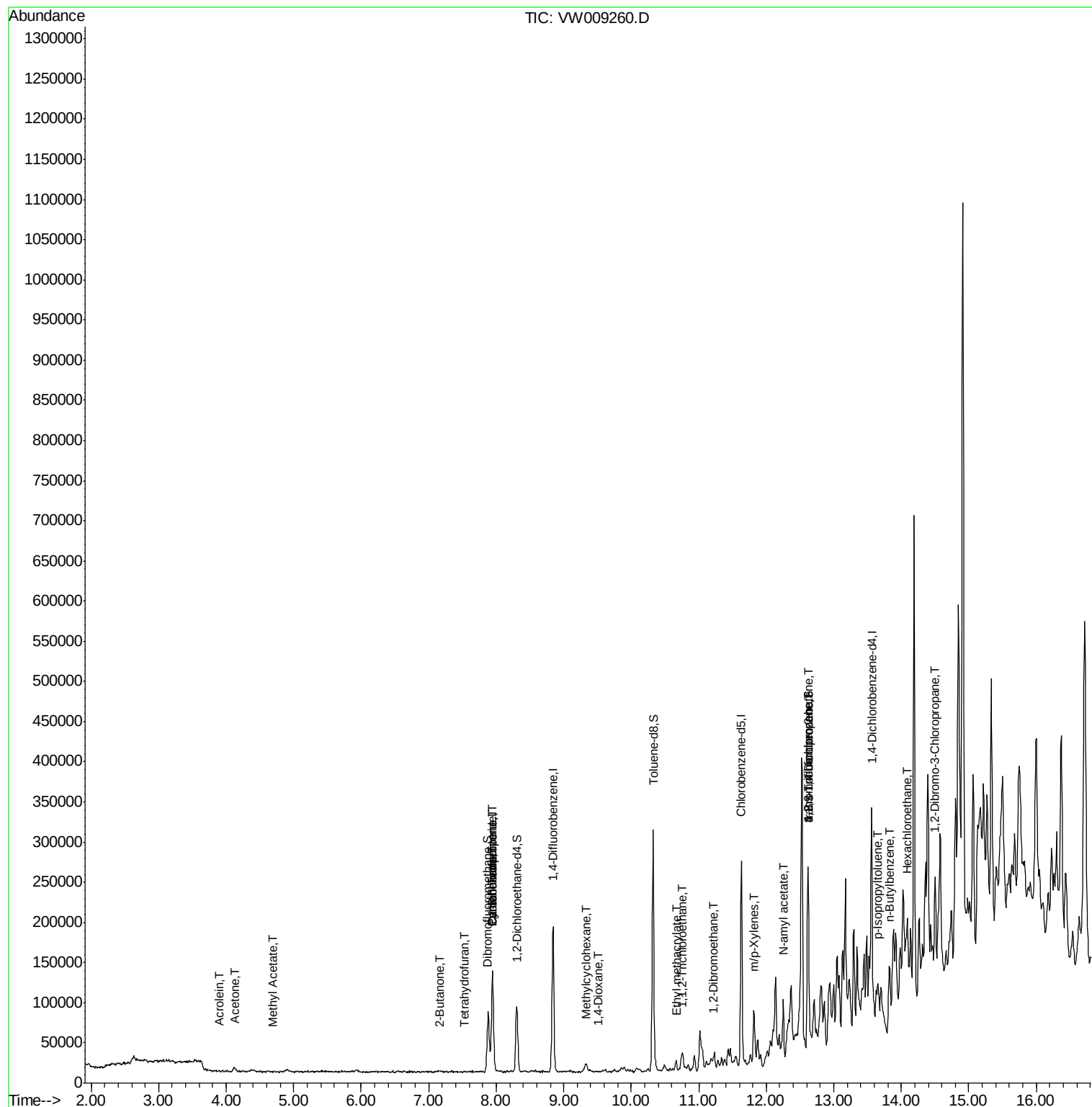
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane     | 2.01  | 85   | 102      | Below Cal | #      | 41     |
| 13) Acrolein                   | 3.89  | 56   | 51       | 1.141     | ug/l # | 15     |
| 16) Acetone                    | 4.13  | 43   | 9430     | 48.732    | ug/l   | 92     |
| 18) Methyl Acetate             | 4.68  | 43   | 600      | 1.208     | ug/l # | 54     |
| 20) Methylene Chloride         | 4.91  | 84   | 1999     | Below Cal | #      | 91     |
| 25) 2-Butanone                 | 7.17  | 43   | 383      | 1.381     | ug/l # | 24     |
| 29) Tetrahydrofuran            | 7.52  | 42   | 182      | 1.033     | ug/l # | 50     |
| 31) Cyclohexane                | 7.95  | 56   | 3066     | 1.981     | ug/l # | 69     |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 7355     | 5.209     | ug/l # | 55     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 9115     | 6.100     | ug/l # | 17     |
| 39) Methylcyclohexane          | 9.34  | 83   | 3440     | 2.106     | ug/l   | 87     |
| 49) 1,4-Dioxane                | 9.52  | 88   | 82       | 9.877     | ug/l # | 1      |
| 55) 1,1,2-Trichloroethane      | 10.76 | 97   | 5628     | 7.765     | ug/l # | 23     |
| 56) Ethyl methacrylate         | 10.66 | 69   | 1983     | 2.298     | ug/l # | 67     |
| 61) 1,2-Dibromoethane          | 11.21 | 107  | 1077     | 1.560     | ug/l # | 1      |
| 68) m/p-Xylenes                | 11.83 | 106  | 2826     | 1.508     | ug/l # | 1      |
| 74) N-amyl acetate             | 12.26 | 43   | 15726    | 13.814    | ug/l # | 77     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 36618    | 59.677    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 36618    | 146.430   | ug/l # | 8      |
| 86) p-Isopropyltoluene         | 13.66 | 119  | 21429    | 5.134     | ug/l   | 94     |
| 89) n-Butylbenzene             | 13.83 | 91   | 4158     | 1.038     | ug/l   | 71     |
| 90) Hexachloroethane           | 14.09 | 117  | 2017     | 2.451     | ug/l # | 11     |
| 92) 1,2-Dibromo-3-Chloropropan | 14.50 | 75   | 349      | 2.387     | ug/l # | 34     |

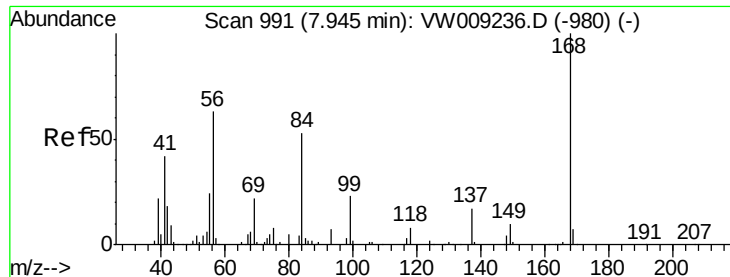
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Wed Mar 20 07:22:50 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: VW009260.D

Acq: 20 Mar 2019 01:58

Instrument :

MSVOA\_W

ClientSampleId :

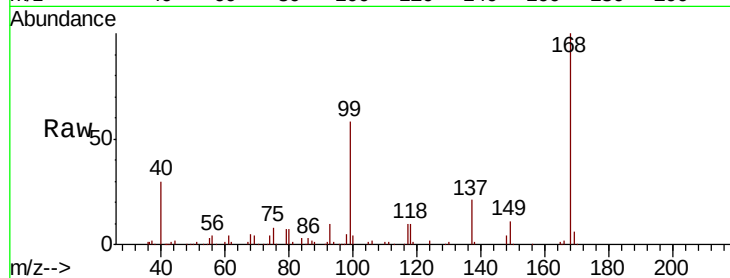
SB-14(9-11)-031519

Tot Ion:168 Resp: 88672

Ion Ratio Lower Upper

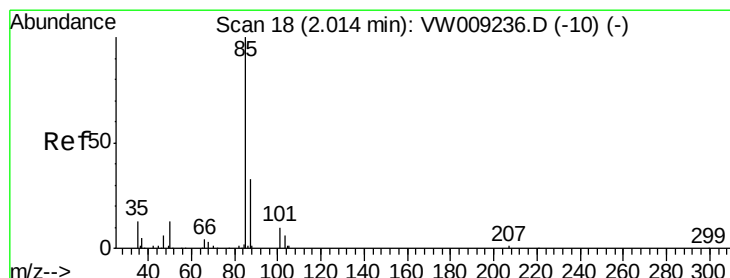
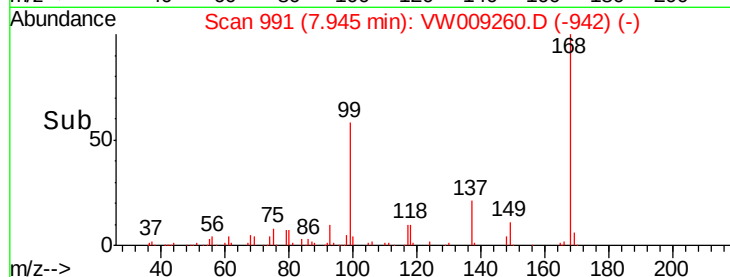
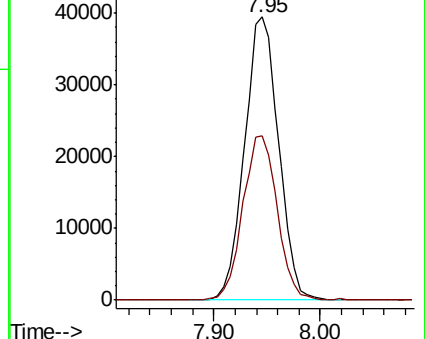
168 100

99 57.9 45.4 68.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.01 min Scan# 18

Delta R.T. 0.00 min

Lab File: VW009260.D

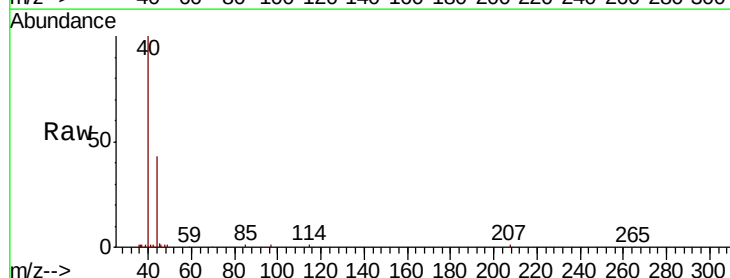
Acq: 20 Mar 2019 01:58

Tgt Ion: 85 Resp: 102

Ion Ratio Lower Upper

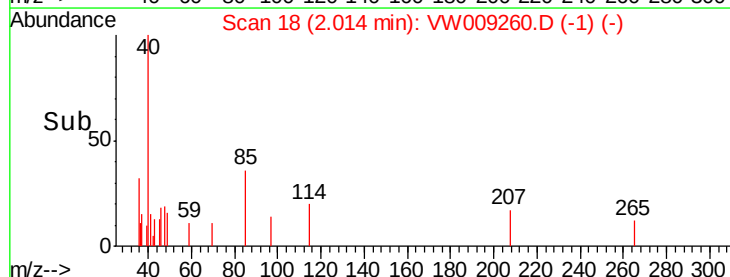
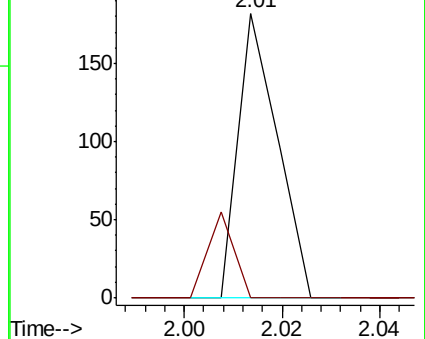
85 100

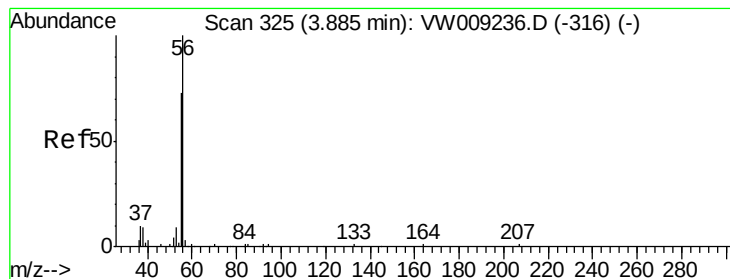
87 0.0 16.7 50.1#



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW





#13

Acrolein

Concen: 1.141 ug/l

RT: 3.89 min Scan# 325

Delta R.T. 0.00 min

Lab File: VW009260.D

Acq: 20 Mar 2019 01:58

Instrument :

MSVOA\_W

ClientSampleId :

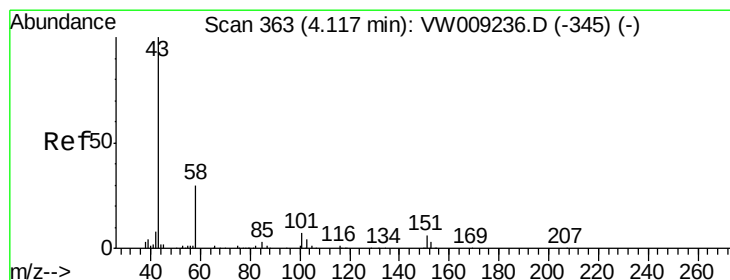
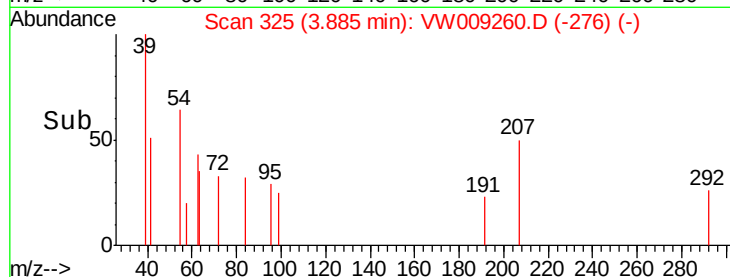
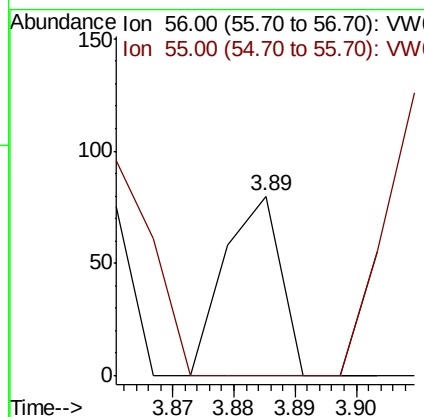
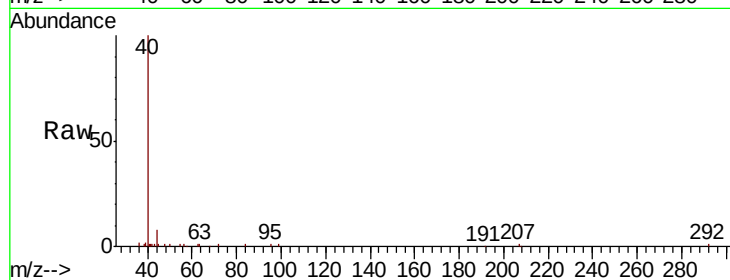
SB-14(9-11)-031519

Tot Ion: 56 Resp: 51

Ion Ratio Lower Upper

56 100

55 0.0 55.2 82.8#



#16

Acetone

Concen: 48.732 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW009260.D

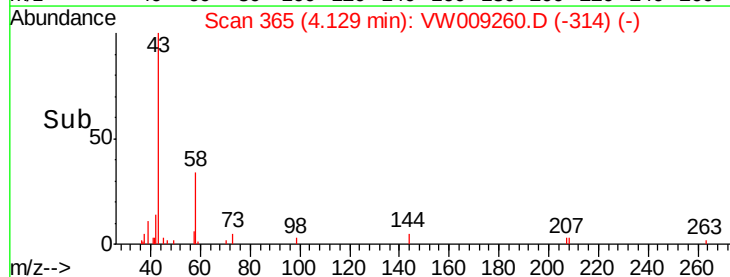
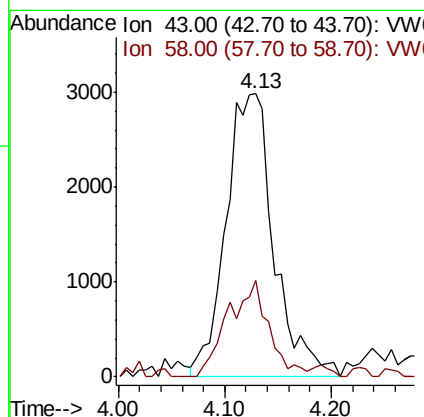
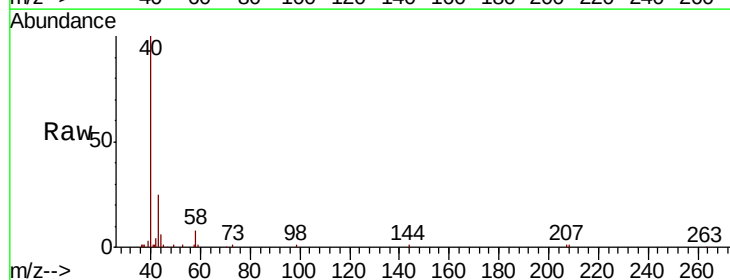
Acq: 20 Mar 2019 01:58

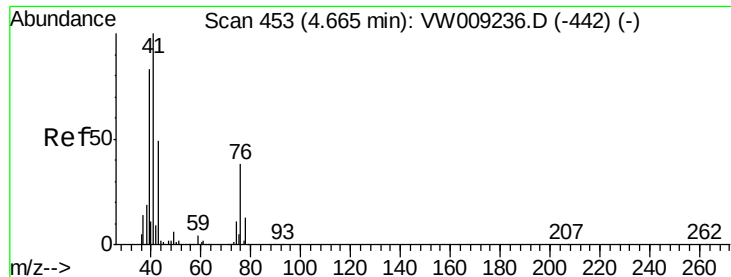
Tgt Ion: 43 Resp: 9430

Ion Ratio Lower Upper

43 100

58 33.9 23.6 35.4

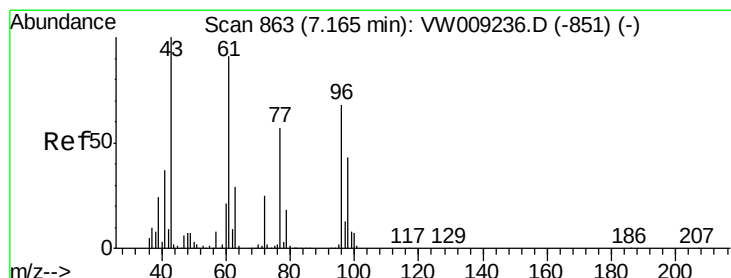
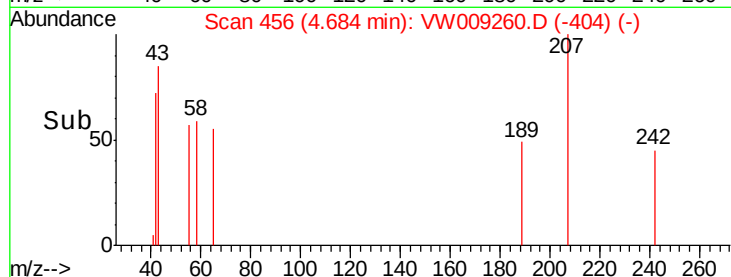
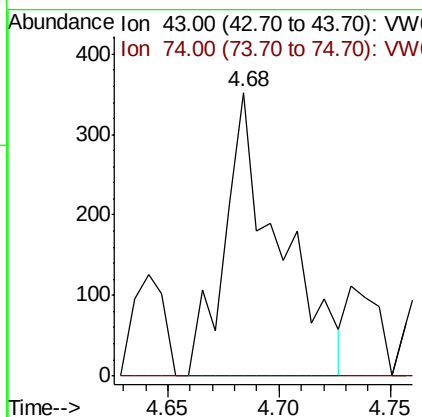
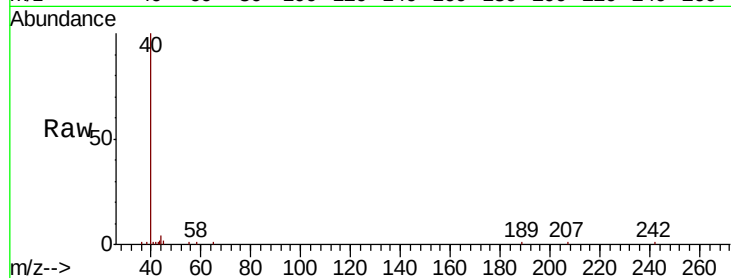




#18  
Methyl Acetate  
Concen: 1.208 ug/l  
RT: 4.68 min Scan# 456  
Delta R.T. 0.02 min  
Lab File: VW009260.D  
Acq: 20 Mar 2019 01:58

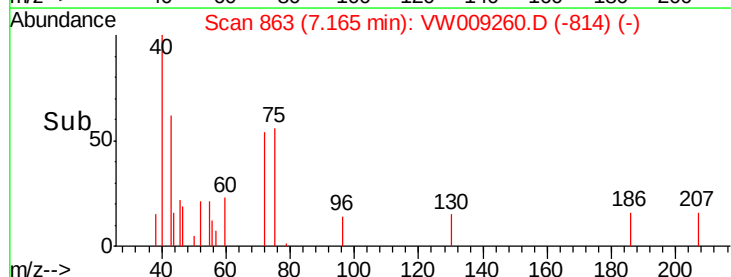
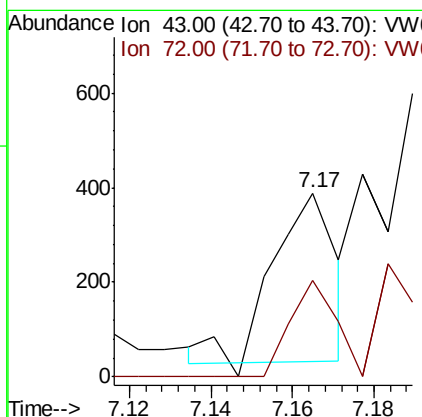
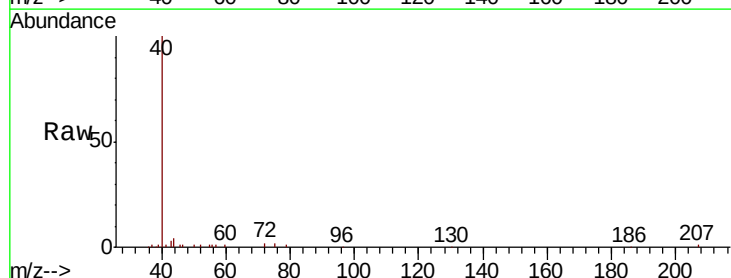
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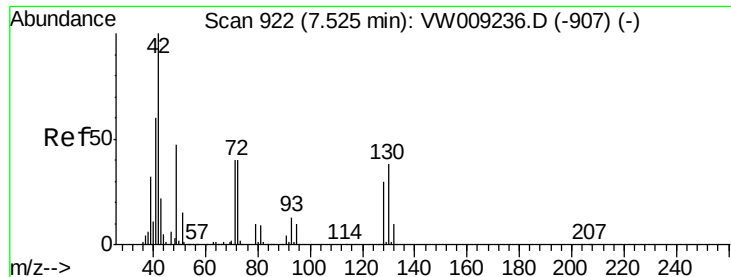
Tot Ion: 43 Resp: 600  
Ion Ratio Lower Upper  
43 100  
74 0.0 17.7 26.5#



#25  
2-Butanone  
Concen: 1.381 ug/l  
RT: 7.17 min Scan# 863  
Delta R.T. 0.00 min  
Lab File: VW009260.D  
Acq: 20 Mar 2019 01:58

Tgt Ion: 43 Resp: 383  
Ion Ratio Lower Upper  
43 100  
72 63.1 20.0 30.0#

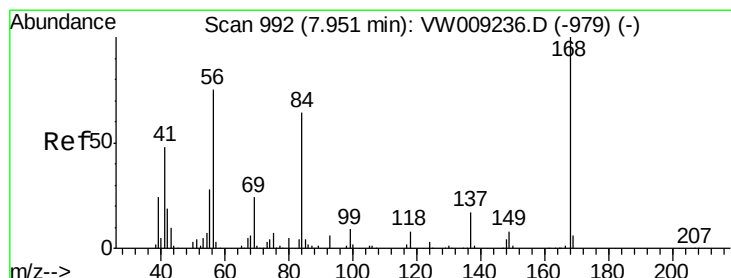
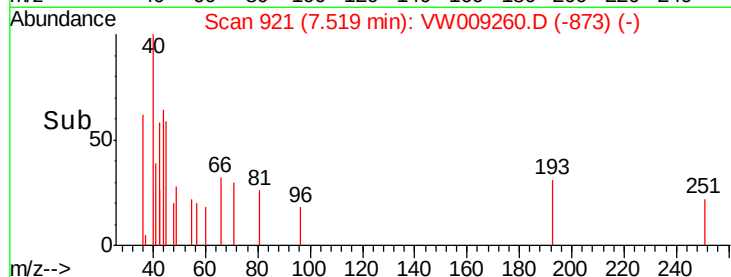
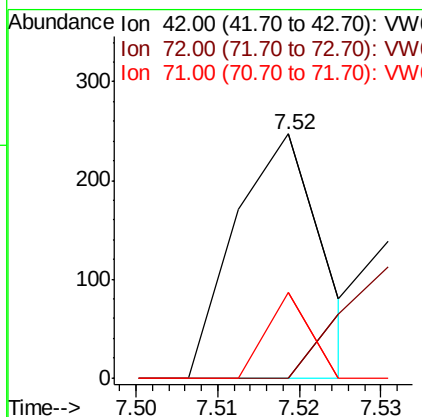
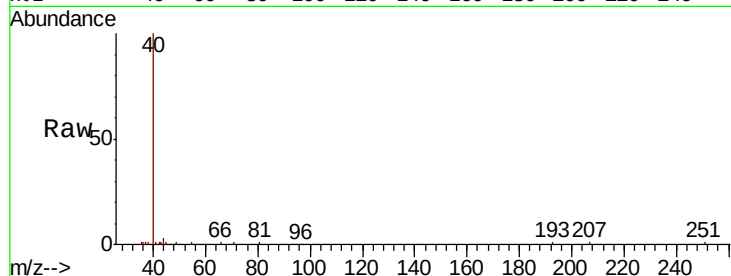




#29  
Tetrahydrofuran  
Concen: 1.033 ug/l  
RT: 7.52 min Scan# 921  
Delta R.T. -0.01 min  
Lab File: VW009260.D  
Acq: 20 Mar 2019 01:58

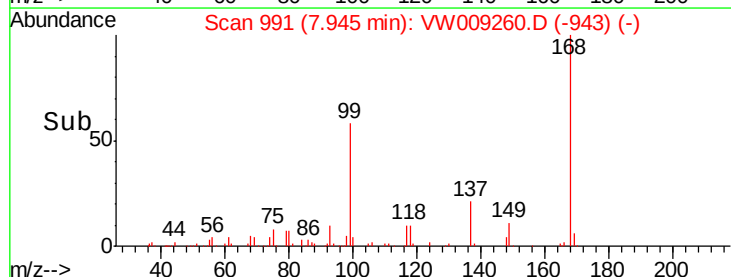
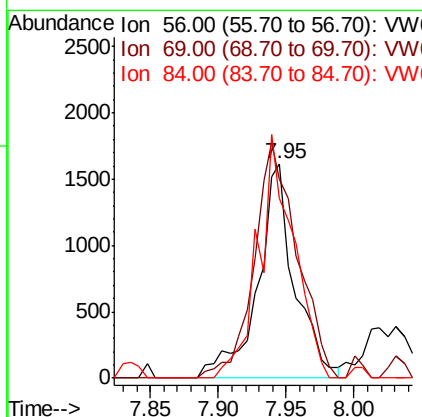
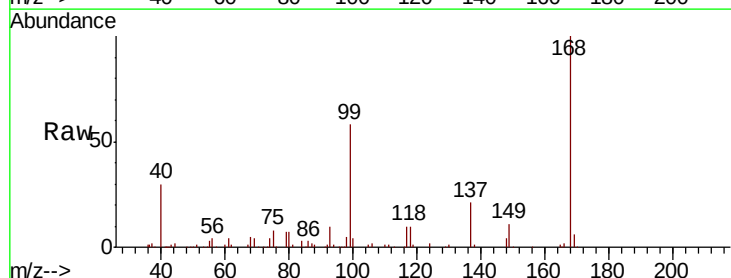
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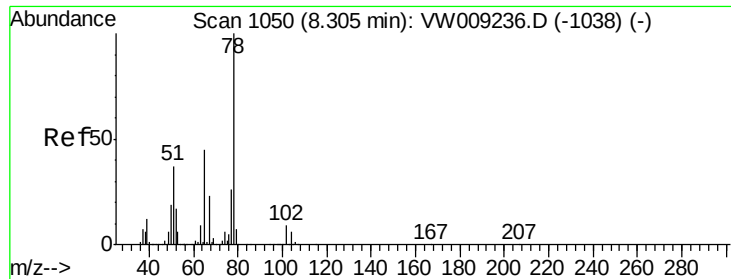
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 0.0   | 32.4  | 48.6# |
| 71      | 17.6  | 30.1  | 45.1# |



#31  
Cyclohexane  
Concen: 1.981 ug/l  
RT: 7.95 min Scan# 991  
Delta R.T. -0.01 min  
Lab File: VW009260.D  
Acq: 20 Mar 2019 01:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 56      | 100   |       |       |
| 69      | 92.6  | 26.1  | 39.1# |
| 84      | 83.6  | 68.6  | 103.0 |





#33

1,2-Dichloroethane-d4

Concen: 65.781 ug/l

RT: 8.30 min Scan# 1049

Delta R.T. -0.01 min

Lab File: VW009260.D

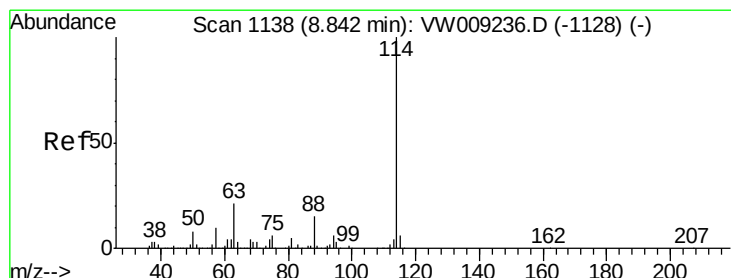
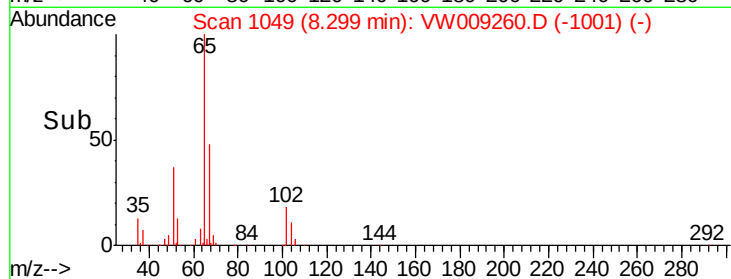
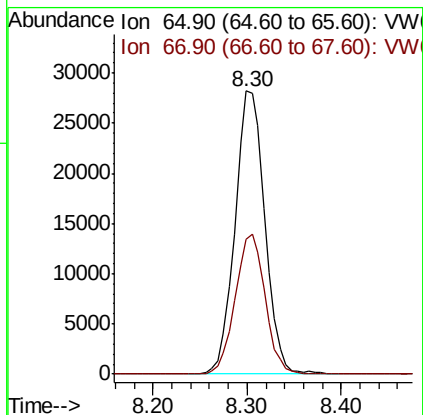
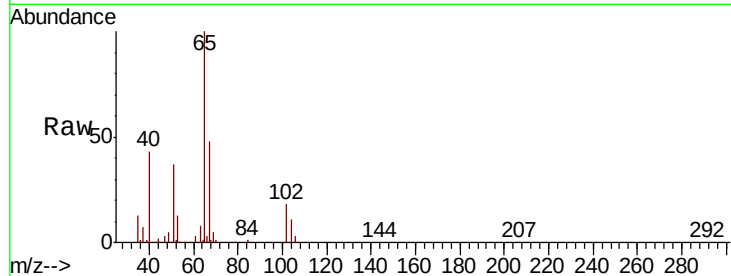
Acq: 20 Mar 2019 01:58

Instrument :  
MSVOA\_W

ClientSampleId :  
SB-14(9-11)-031519

Tot Ion: 65 Resp: 62044

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 65  | 100   |       |       |
| 67  | 49.5  | 0.0   | 102.4 |



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

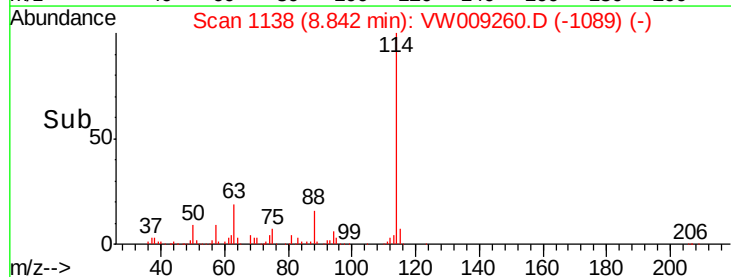
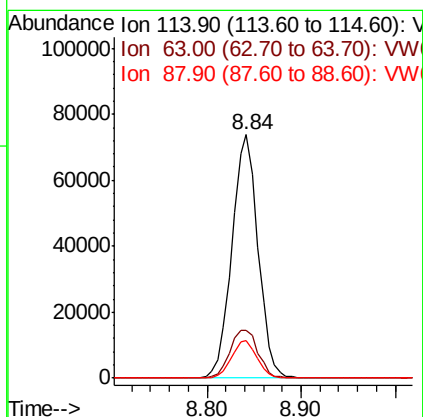
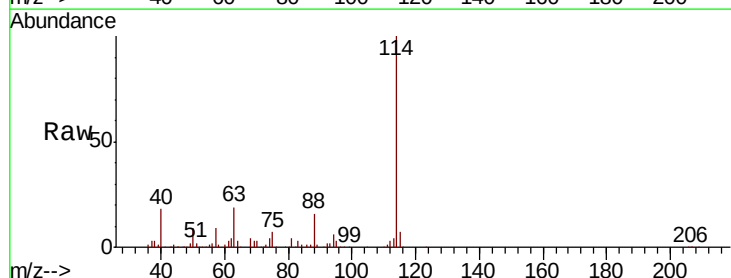
Delta R.T. 0.00 min

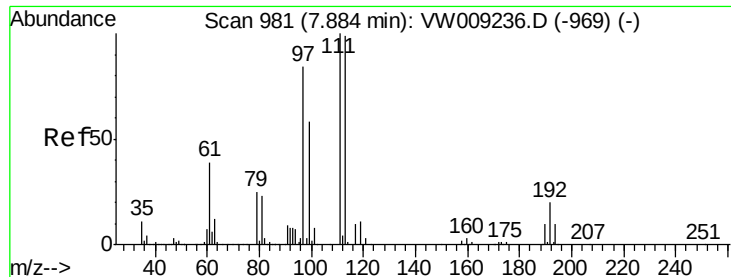
Lab File: VW009260.D

Acq: 20 Mar 2019 01:58

Tgt Ion: 114 Resp: 141898

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 114 | 100   |       |       |
| 63  | 19.5  | 0.0   | 42.2  |
| 88  | 15.7  | 0.0   | 30.8  |





#35

Dibromofluoromethane

Concen: 56.182 ug/l

RT: 7.88 min Scan# 980

Delta R.T. -0.01 min

Lab File: VW009260.D

Acq: 20 Mar 2019 01:58

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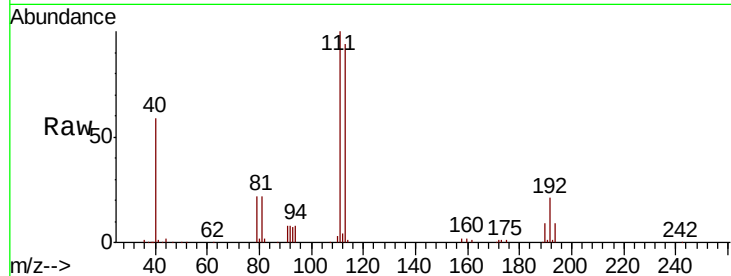
Tot Ion:113 Resp: 50571

Ion Ratio Lower Upper

113 100

111 103.7 82.6 124.0

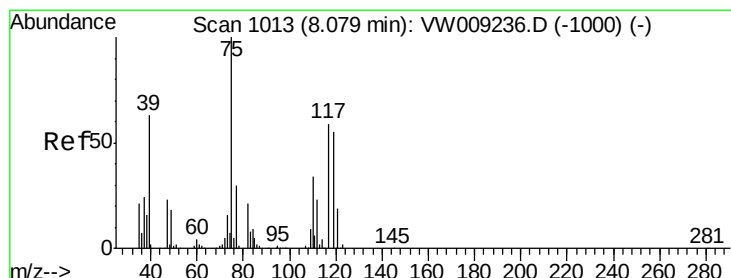
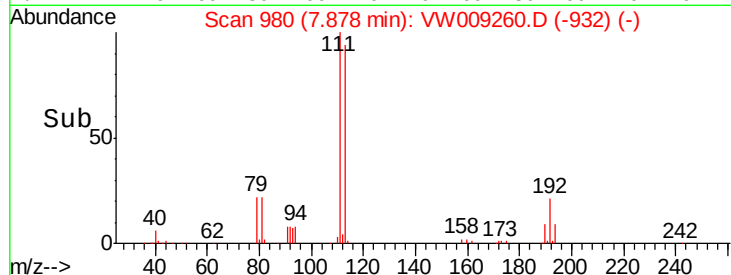
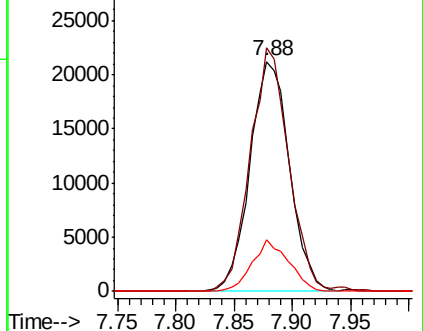
192 20.5 16.4 24.6



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: 5.209 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW009260.D

Acq: 20 Mar 2019 01:58

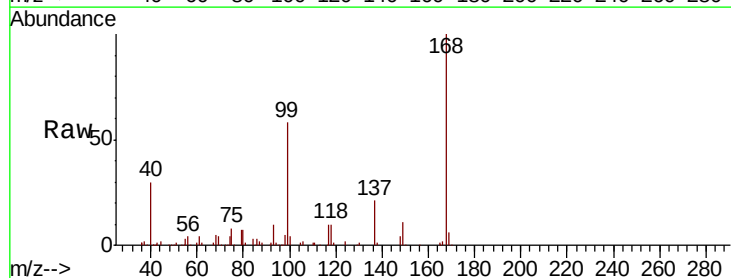
Tgt Ion: 75 Resp: 7355

Ion Ratio Lower Upper

75 100

110 13.4 16.8 50.4#

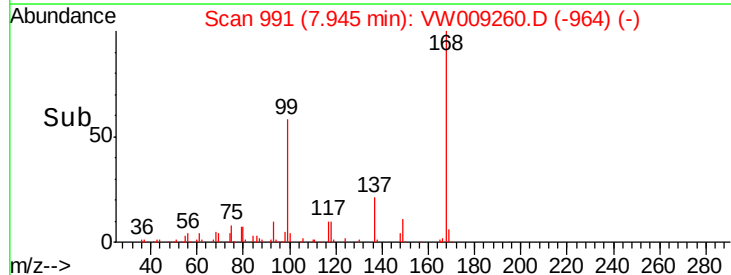
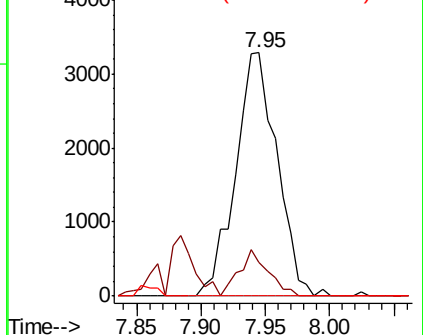
77 0.0 24.6 36.8#



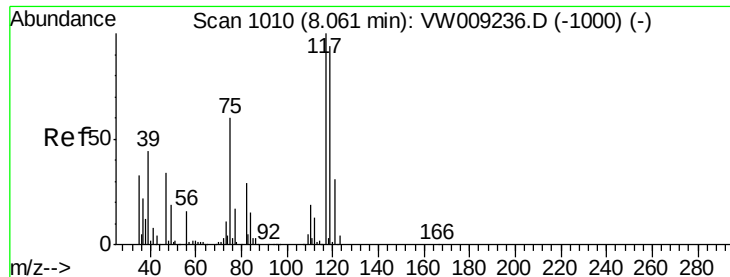
Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW







#38

Carbon Tetrachloride

Concen: 6.100 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.11 min

Lab File: VW009260.D

Acq: 20 Mar 2019 01:58

Instrument :

MSVOA\_W

ClientSampleId :

SB-14(9-11)-031519

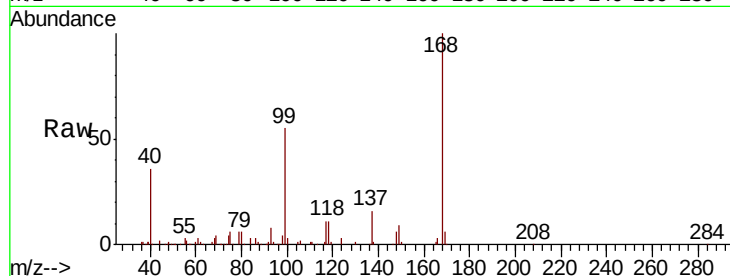
Tot Ion:117 Resp: 9115

Ion Ratio Lower Upper

117 100

119 6.1 75.4 113.0#

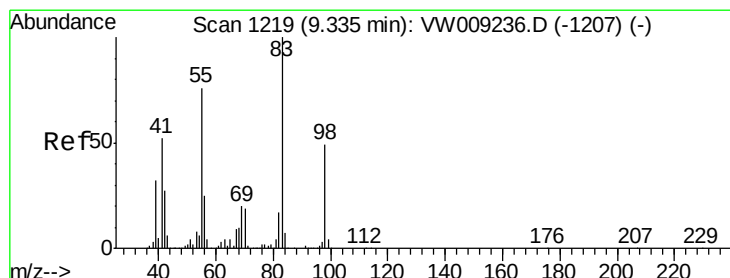
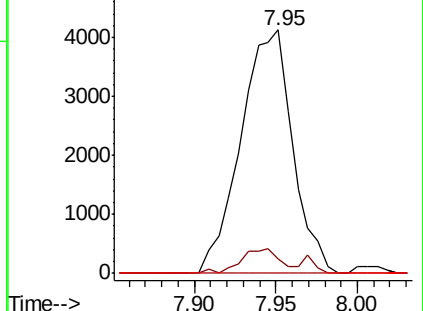
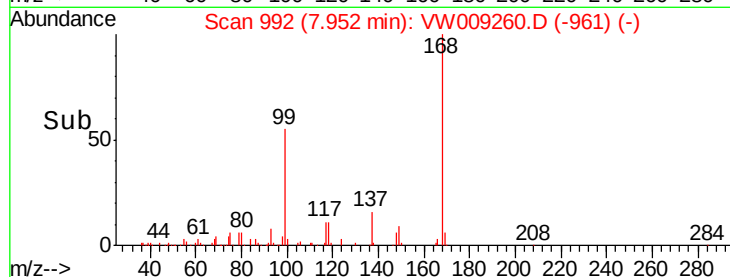
121 0.0 24.9 37.3#



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



#39

Methylcyclohexane

Concen: 2.106 ug/l

RT: 9.34 min Scan# 1219

Delta R.T. 0.00 min

Lab File: VW009260.D

Acq: 20 Mar 2019 01:58

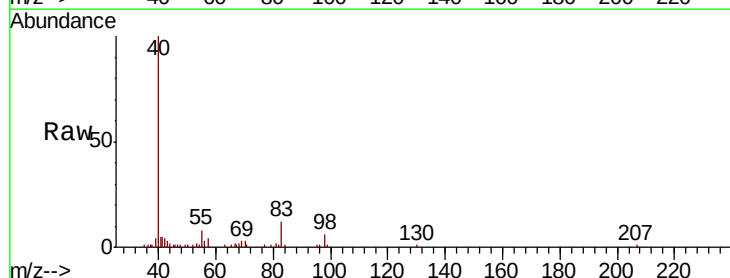
Tgt Ion: 83 Resp: 3440

Ion Ratio Lower Upper

83 100

55 62.2 61.1 91.7

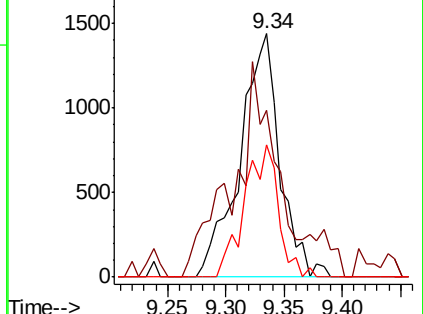
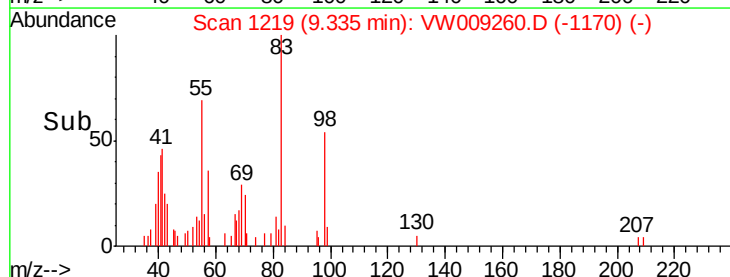
98 54.1 39.0 58.4

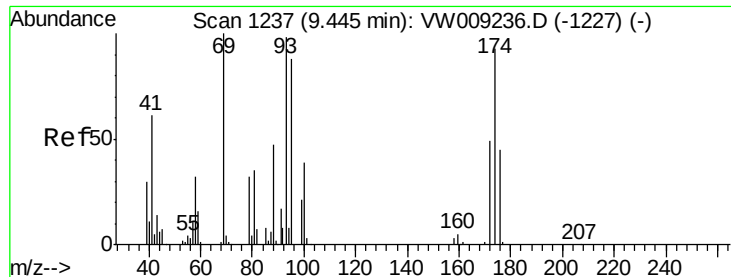


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW

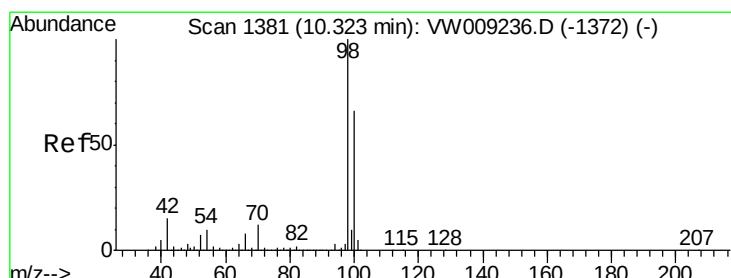
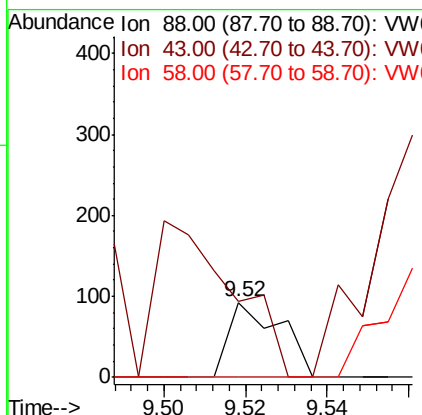
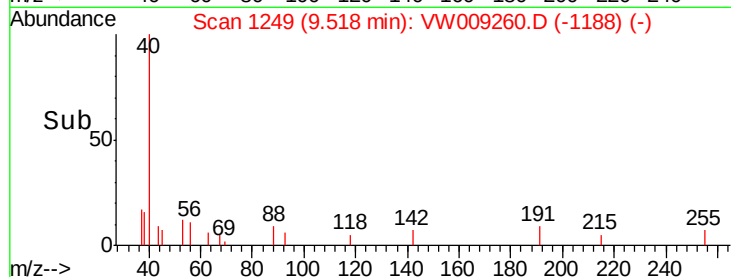
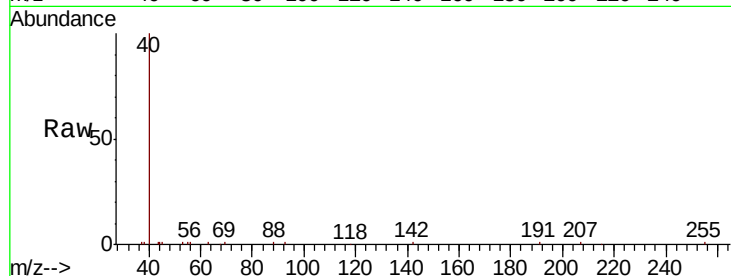




#49  
1,4-Dioxane  
Concen: 9.877 ug/l  
RT: 9.52 min Scan# 1249  
Delta R.T. 0.07 min  
Lab File: VW009260.D  
Acq: 20 Mar 2019 01:58

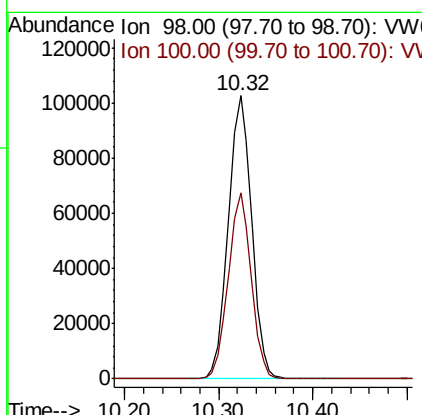
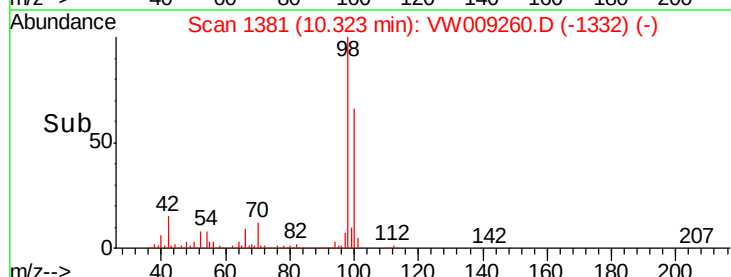
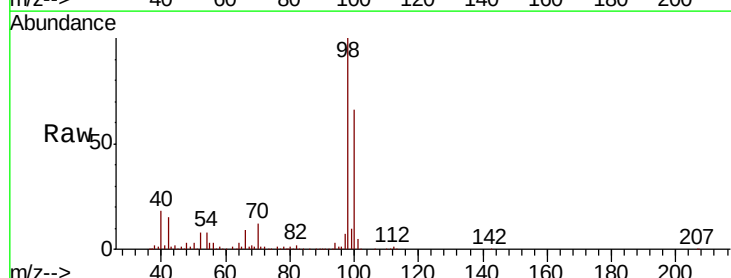
Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-14(9-11)-031519

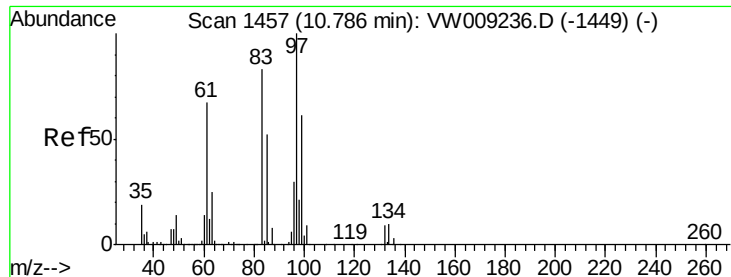
Tot Ion: 88 Resp: 82  
Ion Ratio Lower Upper  
88 100  
43 311.0 29.7 44.5#  
58 0.0 58.1 87.1#



#50  
Toluene-d8  
Concen: 54.115 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. 0.00 min  
Lab File: VW009260.D  
Acq: 20 Mar 2019 01:58

Tgt Ion: 98 Resp: 177018  
Ion Ratio Lower Upper  
98 100  
100 64.3 52.6 79.0

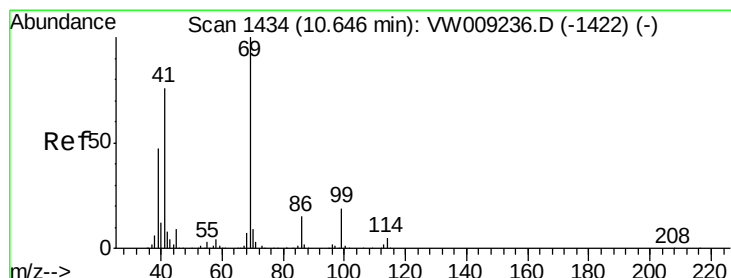
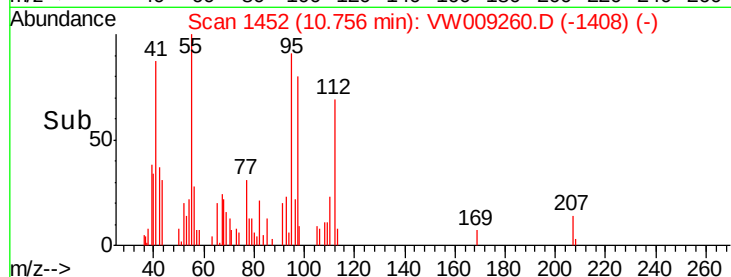
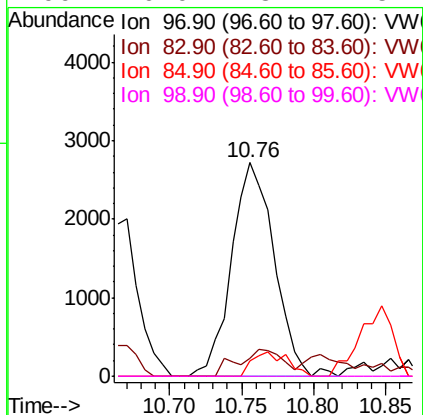
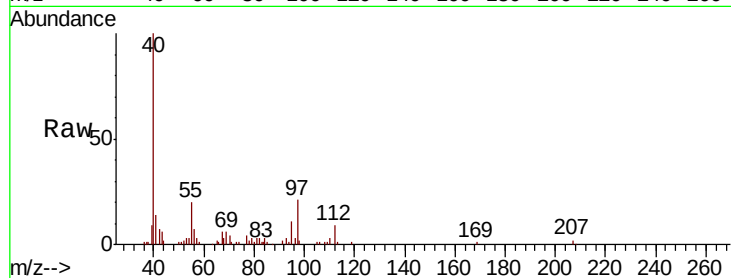




#55  
 1,1,2-Trichloroethane  
 Concen: 7.765 ug/l  
 RT: 10.76 min Scan# 1452  
 Delta R.T. -0.03 min  
 Lab File: VW009260.D  
 Acq: 20 Mar 2019 01:58

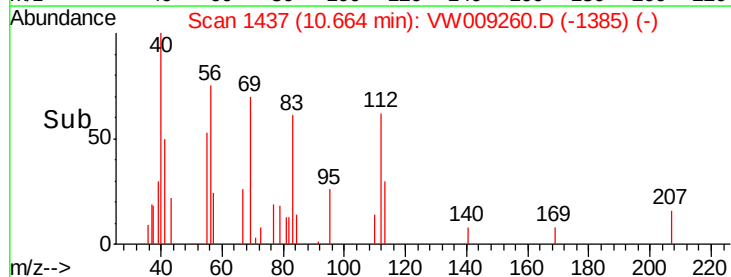
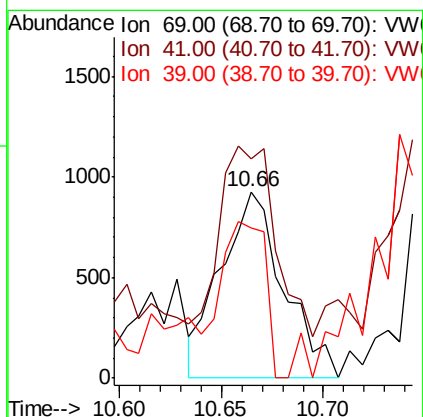
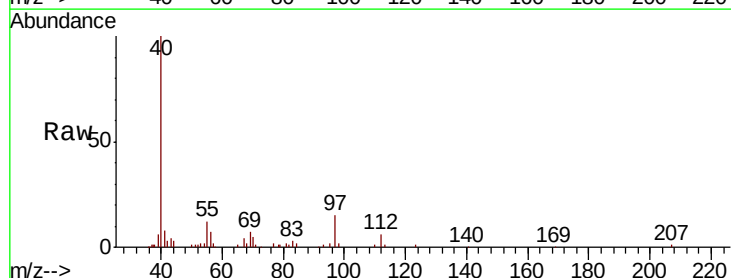
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SB-14(9-11)-031519

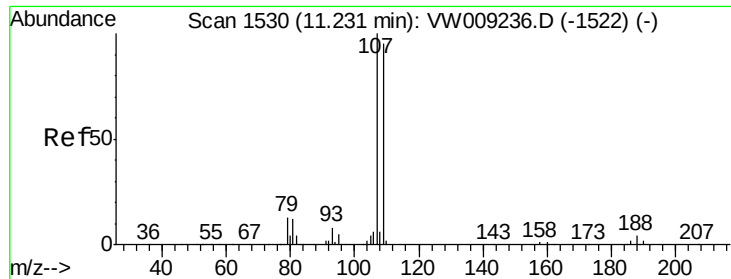
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 97    | Resp: | 5628  |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 8.6   | 66.3  | 99.5# |
| 85       | 7.2   | 41.4  | 62.2# |
| 99       | 0.0   | 48.7  | 73.1# |



#56  
 Ethyl methacrylate  
 Concen: 2.298 ug/l  
 RT: 10.66 min Scan# 1437  
 Delta R.T. 0.02 min  
 Lab File: VW009260.D  
 Acq: 20 Mar 2019 01:58

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 69    | Resp: | 1983  |
| Ion      | Ratio | Lower | Upper |
| 69       | 100   |       |       |
| 41       | 108.9 | 59.3  | 88.9# |
| 39       | 58.6  | 36.2  | 54.2# |





#61

1,2-Dibromoethane

Concen: 1.560 ug/l

RT: 11.21 min Scan# 1526

Delta R.T. -0.02 min

Lab File: VW009260.D

Acq: 20 Mar 2019 01:58

Instrument :

MSVOA\_W

ClientSampleId :

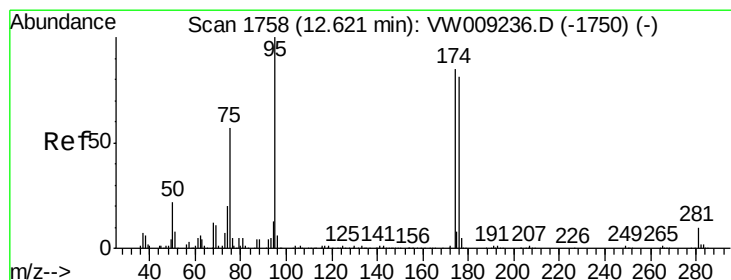
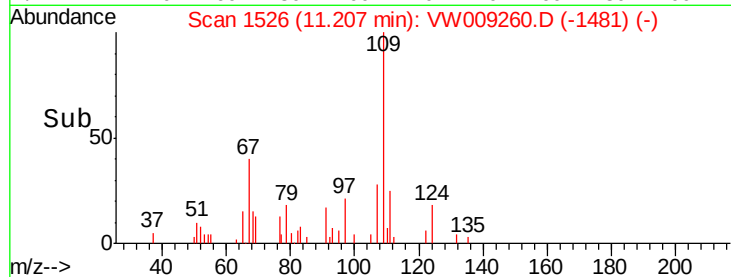
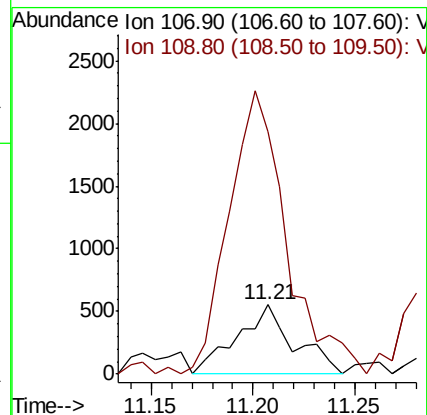
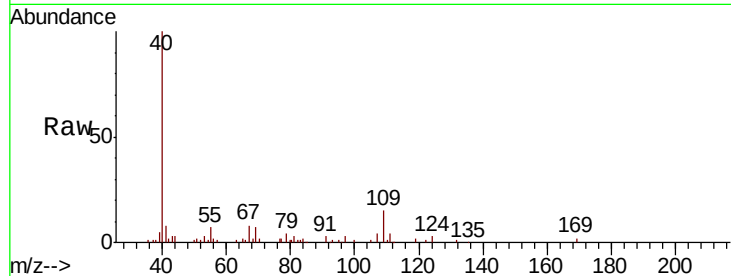
SB-14(9-11)-031519

Tot Ion:107 Resp: 1077

Ion Ratio Lower Upper

107 100

109 413.8 75.1 112.7#



#62

4-Bromofluorobenzene

Concen: 55.274 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.01 min

Lab File: VW009260.D

Acq: 20 Mar 2019 01:58

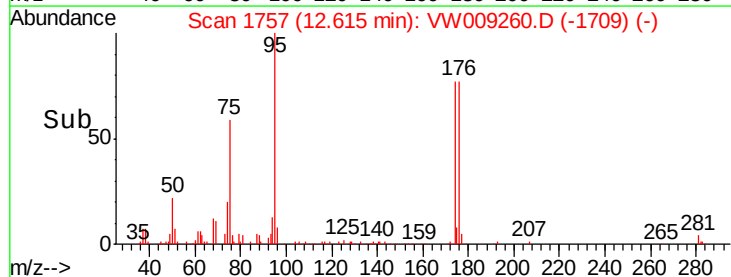
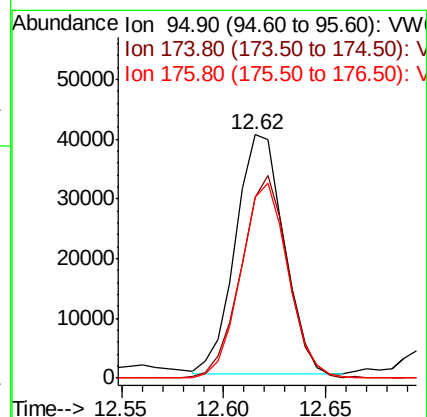
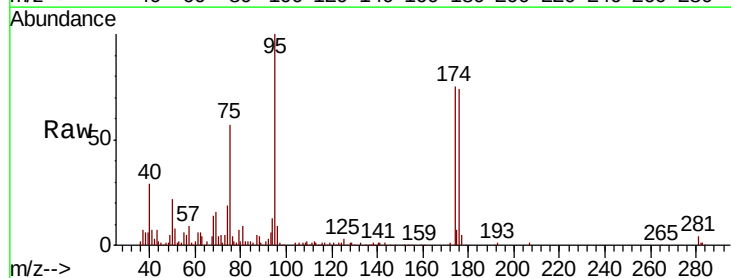
Tgt Ion: 95 Resp: 66386

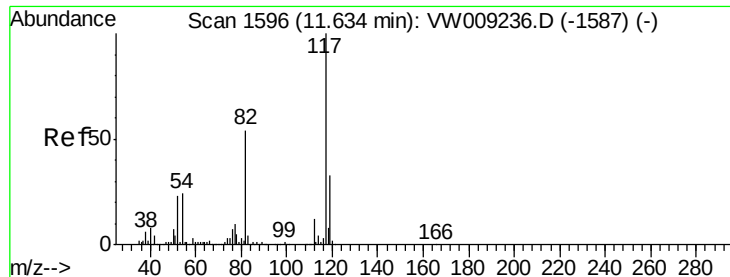
Ion Ratio Lower Upper

95 100

174 81.2 0.0 168.4

176 78.9 0.0 161.6

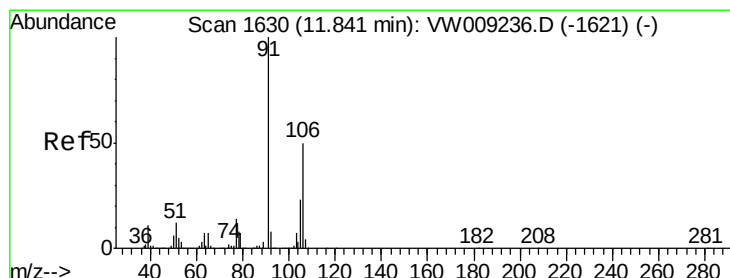
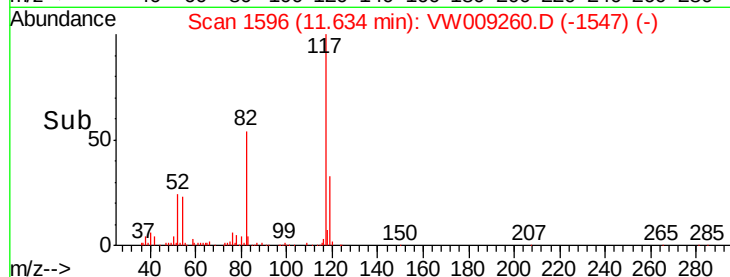
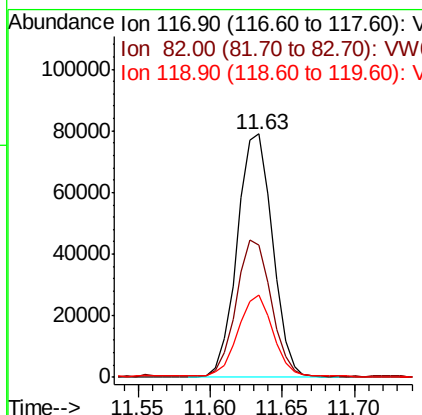
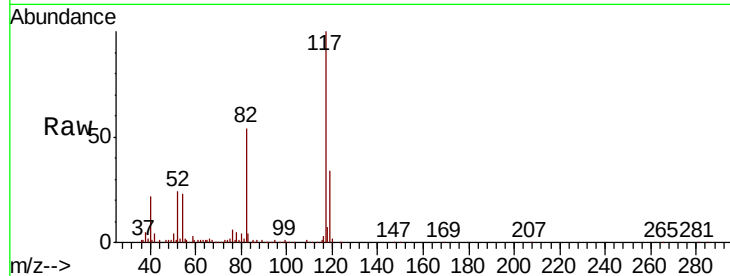




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. 0.00 min  
Lab File: VW009260.D  
Acq: 20 Mar 2019 01:58

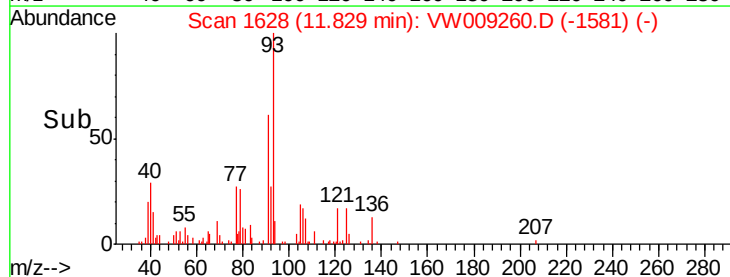
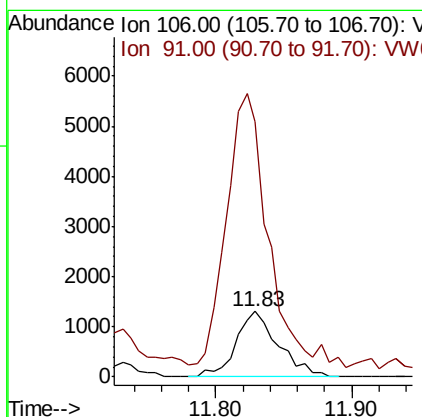
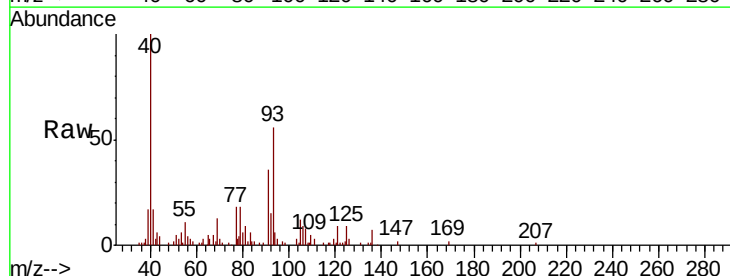
Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-14(9-11)-031519

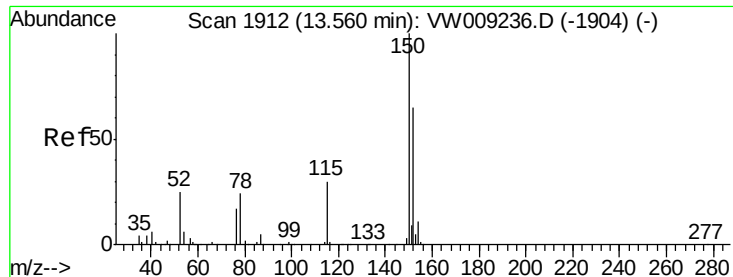
Tot Ion:117 Resp: 134969  
Ion Ratio Lower Upper  
117 100  
82 53.6 43.6 65.4  
119 33.3 26.0 39.0



#68  
m/p-Xylenes  
Concen: 1.508 ug/l  
RT: 11.83 min Scan# 1628  
Delta R.T. -0.01 min  
Lab File: VW009260.D  
Acq: 20 Mar 2019 01:58

Tgt Ion:106 Resp: 2826  
Ion Ratio Lower Upper  
106 100  
91 406.1 163.1 244.7#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW009260.D

Acq: 20 Mar 2019 01:58

Instrument :

MSVOA\_W

ClientSampleId :

SB-14(9-11)-031519

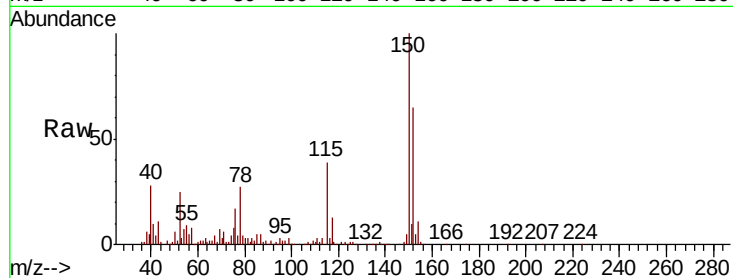
Tot Ion:152 Resp: 65296

Ion Ratio Lower Upper

152 100

115 57.7 29.6 88.8

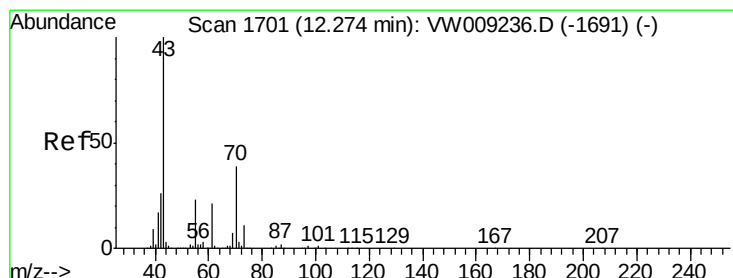
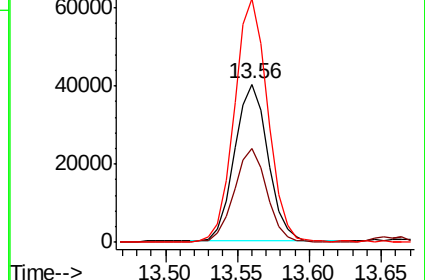
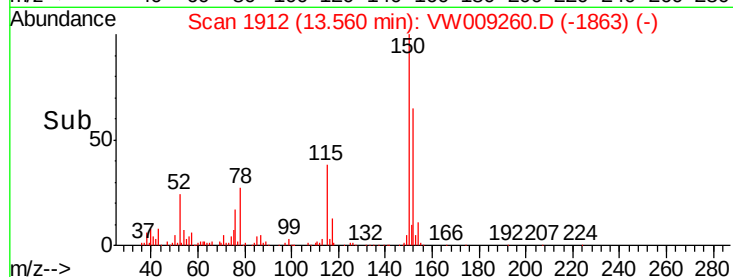
150 153.2 0.0 349.2



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



#74

N-ethyl acetate

Concen: 13.814 ug/l

RT: 12.26 min Scan# 1698

Delta R.T. -0.02 min

Lab File: VW009260.D

Acq: 20 Mar 2019 01:58

Tgt Ion: 43 Resp: 15726

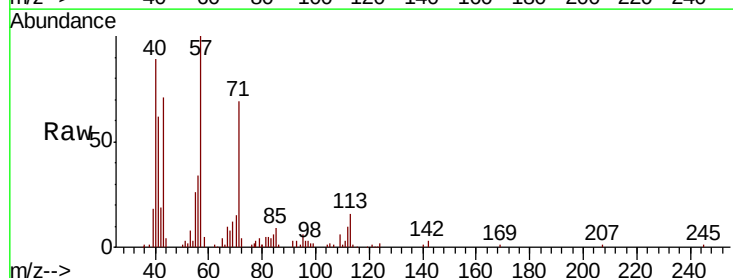
Ion Ratio Lower Upper

43 100

70 23.3 30.6 46.0#

55 23.9 19.3 28.9

61 0.0 17.0 25.4#

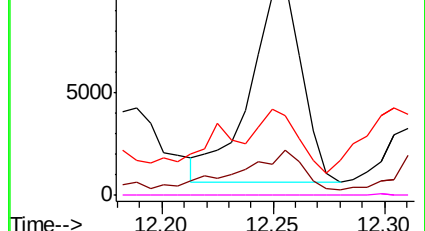
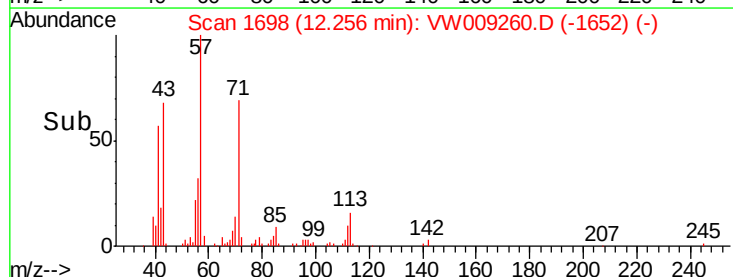


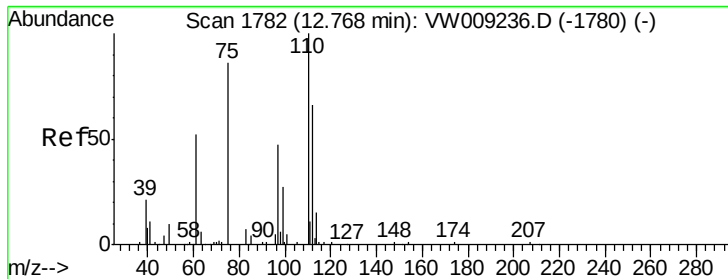
Abundance Ion 43.00 (42.70 to 43.70): VV

Ion 70.00 (69.70 to 70.70): VV

Ion 55.00 (54.70 to 55.70): VV

Ion 61.00 (60.70 to 61.70): VV





#76

1,2,3-Trichloropropane

Concen: 59.677 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW009260.D

Acq: 20 Mar 2019 01:58

Instrument :

MSVOA\_W

ClientSampleId :

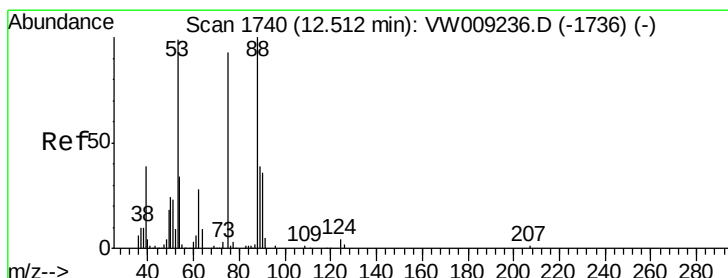
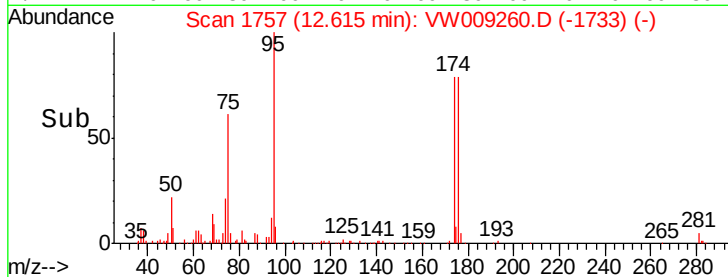
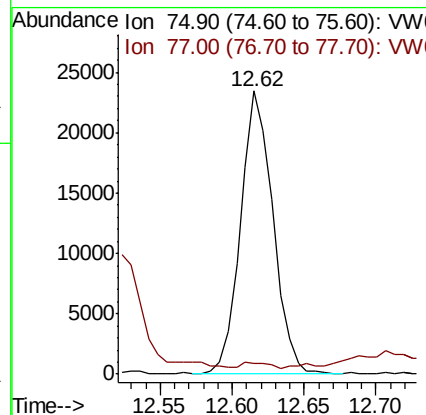
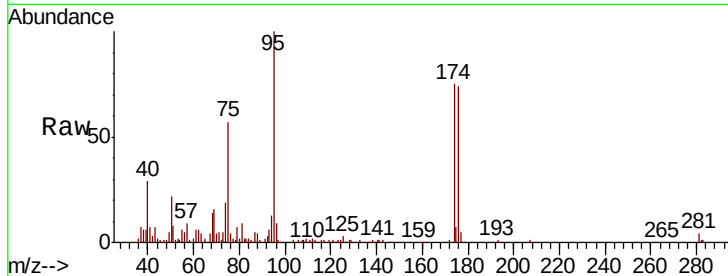
SB-14(9-11)-031519

Tot Ion: 75 Resp: 36618

Ion Ratio Lower Upper

75 100

77 1.6 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 146.430 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW009260.D

Acq: 20 Mar 2019 01:58

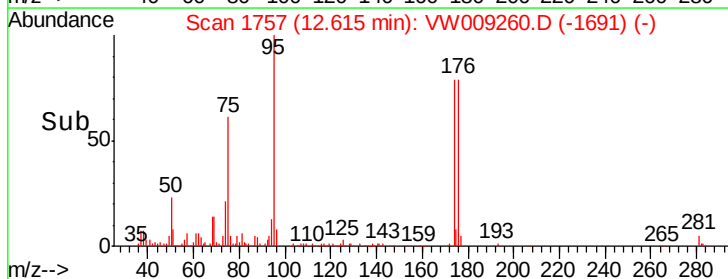
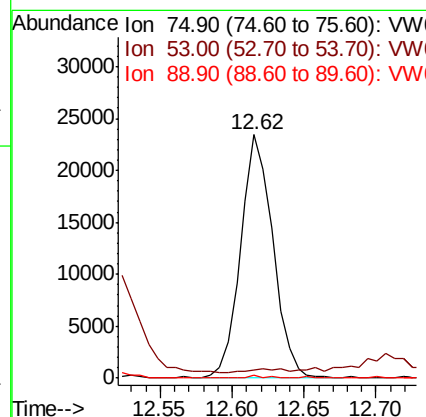
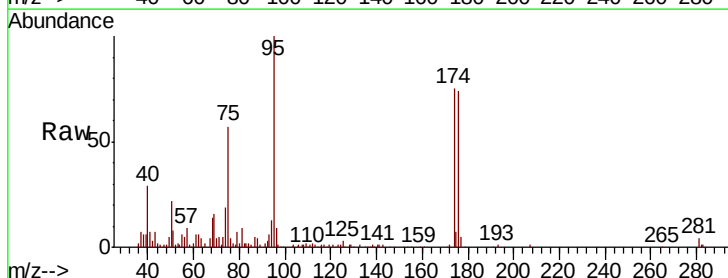
Tgt Ion: 75 Resp: 36618

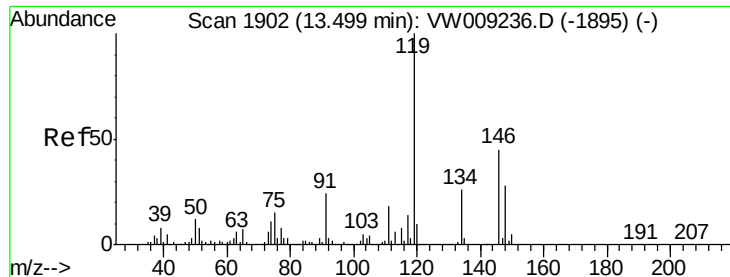
Ion Ratio Lower Upper

75 100

53 1.9 86.7 130.1#

89 0.6 36.4 54.6#

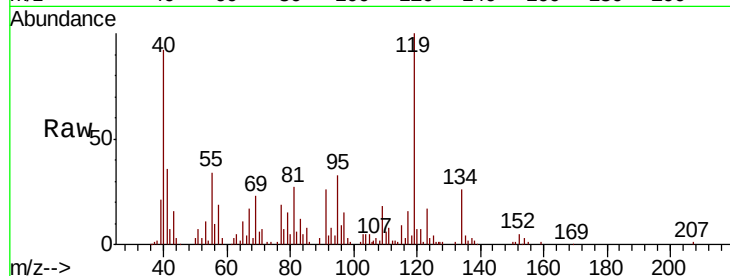




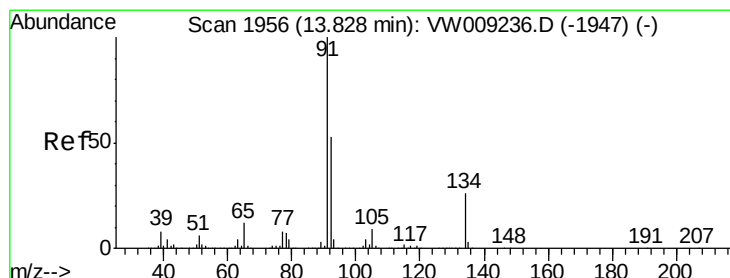
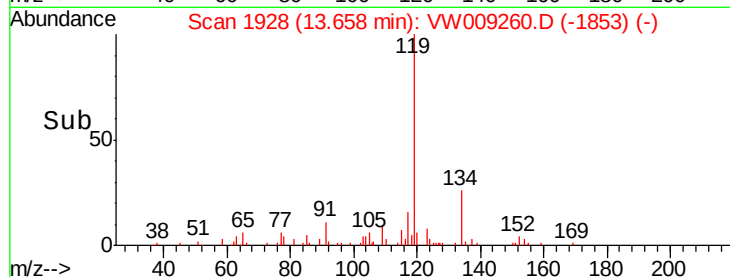
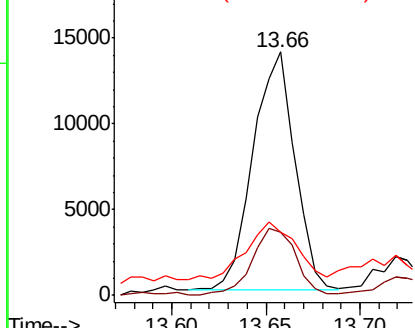
#86  
 p-Isopropyltoluene  
 Concen: 5.134 ug/l  
 RT: 13.66 min Scan# 1928  
 Delta R.T. 0.16 min  
 Lab File: VW009260.D  
 Acq: 20 Mar 2019 01:58

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SB-14(9-11)-031519

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 29.3  | 13.1  | 39.3  |
| 91      | 27.8  | 12.3  | 36.8  |

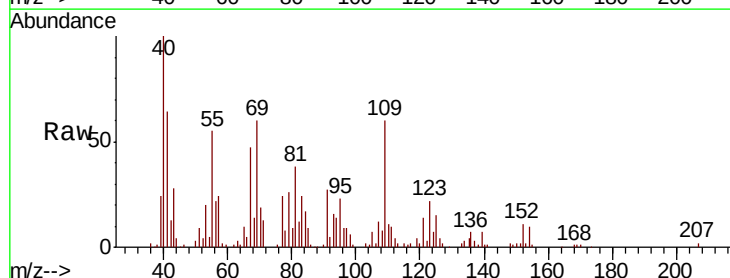


Abundance Ion 119.00 (118.70 to 119.70): V  
 Ion 134.00 (133.70 to 134.70): V  
 Ion 91.00 (90.70 to 91.70): V

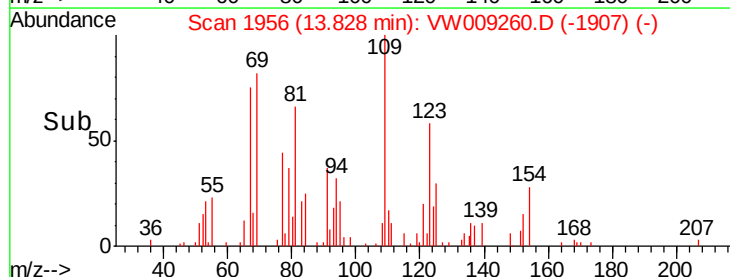
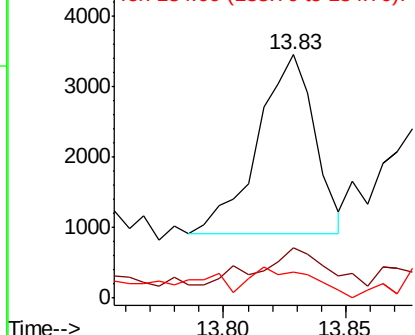


#89  
 n-Butylbenzene  
 Concen: 1.038 ug/l  
 RT: 13.83 min Scan# 1956  
 Delta R.T. 0.00 min  
 Lab File: VW009260.D  
 Acq: 20 Mar 2019 01:58

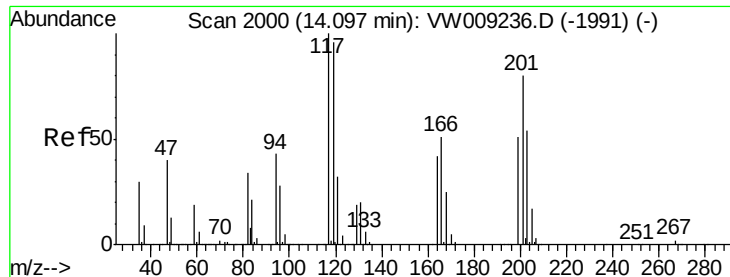
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 27.7  | 26.4  | 79.0  |
| 134     | 18.3  | 12.9  | 38.6  |



Abundance Ion 91.00 (90.70 to 91.70): V  
 Ion 92.00 (91.70 to 92.70): V  
 Ion 134.00 (133.70 to 134.70): V







#90

Hexachloroethane

Concen: 2.451 ug/l

RT: 14.09 min Scan# 1999

Delta R.T. -0.01 min

Lab File: VW009260.D

Acq: 20 Mar 2019 01:58

Instrument :

MSVOA\_W

ClientSampleId :

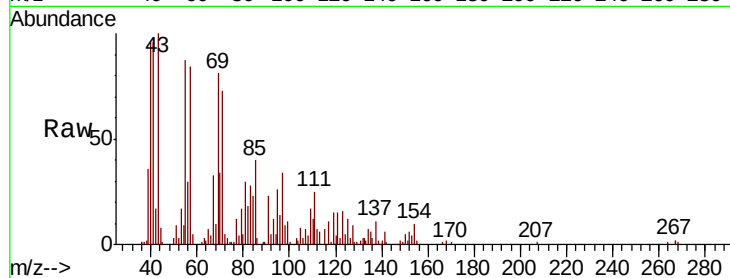
SB-14(9-11)-031519

Tot Ion:117 Resp: 2017

Ion Ratio Lower Upper

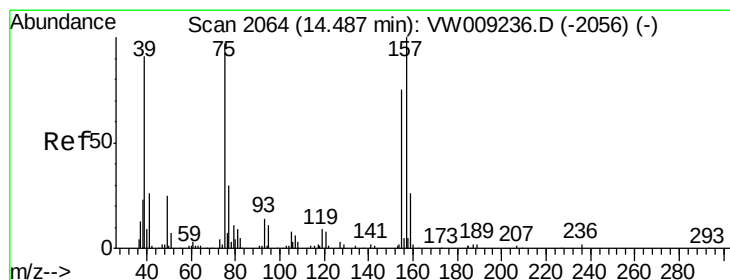
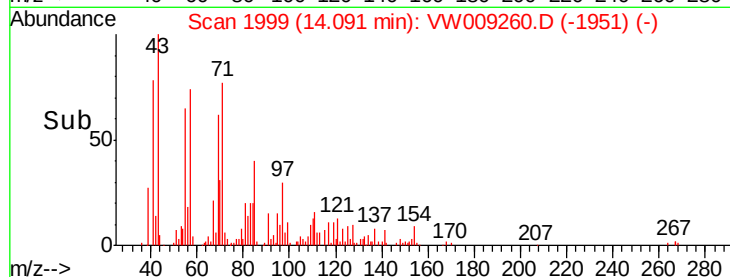
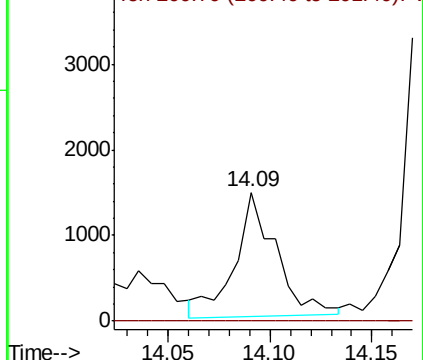
117 100

201 0.0 38.2 114.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.387 ug/l

RT: 14.50 min Scan# 2066

Delta R.T. 0.01 min

Lab File: VW009260.D

Acq: 20 Mar 2019 01:58

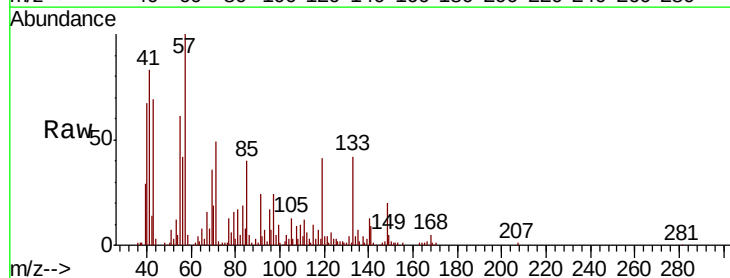
Tgt Ion: 75 Resp: 349

Ion Ratio Lower Upper

75 100

155 98.9 39.3 117.8

157 0.0 49.5 148.5#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

