

Data File : VW010403.D  
Acq On : 12 May 2019 12:53  
Operator : SY/VA  
Sample : K2718-17  
Misc : 5.30G/5ML/MSVOA\_W/SOIL  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
P026-SS007-0206-01

Quant Time: May 13 05:22:21 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W050919S.M  
Quant Title : SW846 8260  
QLast Update : Fri May 10 03:41:21 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 207826   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 441176   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 294001   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 68200    | 50.00 | ug/l  | 0.00     |

#### System Monitoring Compounds

|                           |        |     |          |        |         |      |
|---------------------------|--------|-----|----------|--------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 346774   | 156.95 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 313.90% |      |
| 35) Dibromofluoromethane  | 7.88   | 113 | 242118   | 93.78  | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 187.56% |      |
| 50) Toluene-d8            | 10.32  | 98  | 241085   | 22.93  | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 45.86%  |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 77028    | 20.82  | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 41.64%  |      |

#### Target Compounds

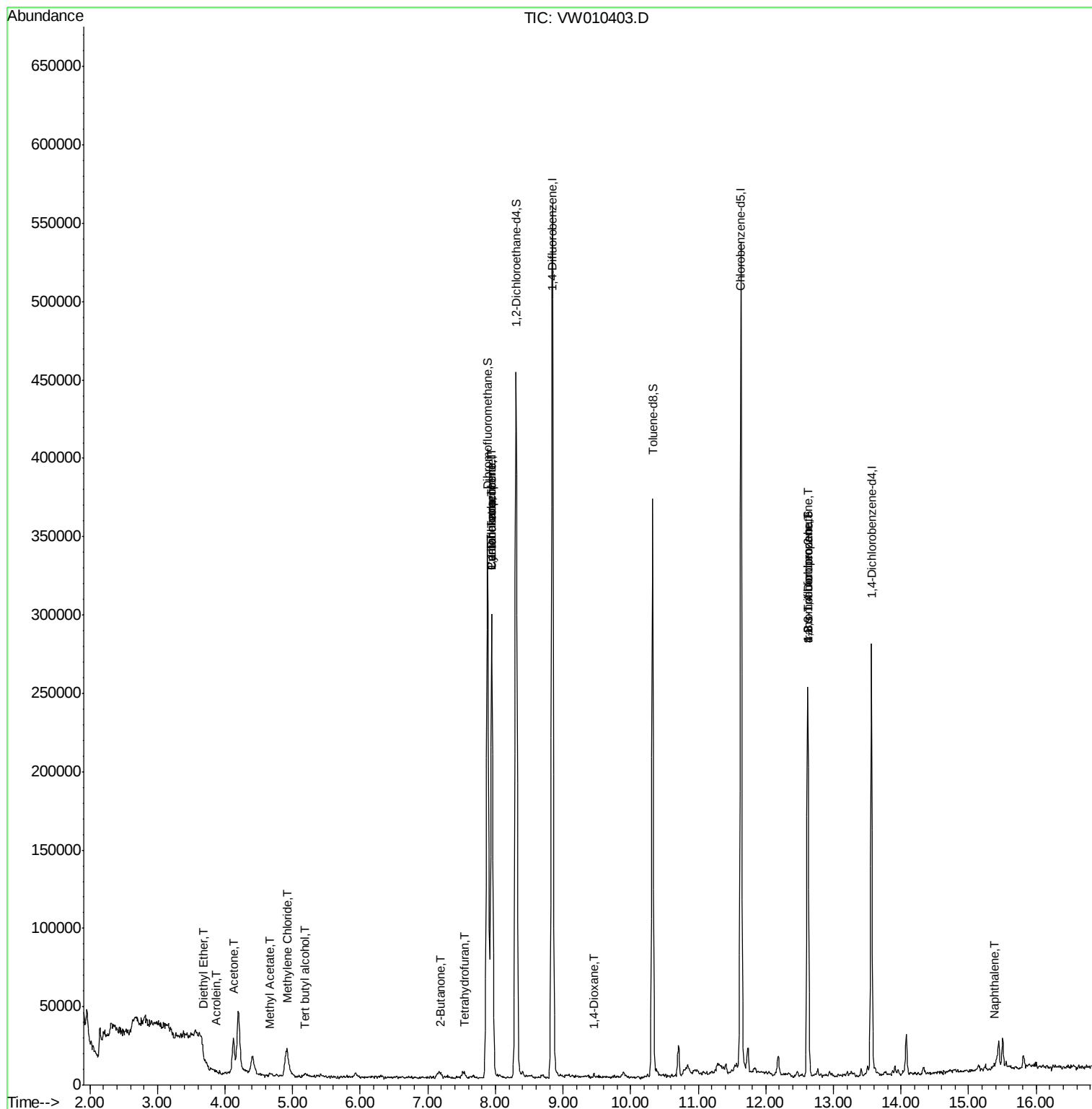
|                                |       |     |       |         |        | Qvalue |
|--------------------------------|-------|-----|-------|---------|--------|--------|
| 8) Diethyl Ether               | 3.68  | 74  | 2520  | 2.166   | ug/l   | 92     |
| 11) Tert butyl alcohol         | 5.18  | 59  | 1719  | 11.017  | ug/l # | 86     |
| 13) Acrolein                   | 3.87  | 56  | 270   | 1.311   | ug/l # | 16     |
| 16) Acetone                    | 4.12  | 43  | 41357 | 71.801  | ug/l   | 95     |
| 18) Methyl Acetate             | 4.65  | 43  | 4493  | 3.149   | ug/l # | 55     |
| 20) Methylene Chloride         | 4.91  | 84  | 15479 | 6.443   | ug/l # | 76     |
| 25) 2-Butanone                 | 7.19  | 43  | 3371  | 3.826   | ug/l # | 76     |
| 29) Tetrahydrofuran            | 7.54  | 42  | 2377  | 4.171   | ug/l # | 79     |
| 31) Cyclohexane                | 7.94  | 56  | 5632  | 1.244   | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.95  | 75  | 18629 | 3.894   | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 7.94  | 117 | 21170 | 5.163   | ug/l # | 17     |
| 49) 1,4-Dioxane                | 9.46  | 88  | 303   | 10.328  | ug/l # | 5      |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75  | 39014 | 49.065  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75  | 39014 | 110.803 | ug/l # | 6      |
| 95) Naphthalene                | 15.38 | 128 | 2448  | 4.329   | ug/l # | 81     |

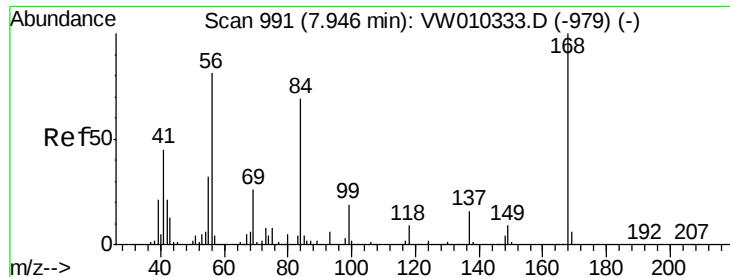
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : VW010403.D  
Acq On : 12 May 2019 12:53  
Operator : SY/VA  
Sample : K2718-17  
Misc : 5.30G/5ML/MSVOA\_W/SOIL  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
P026-SS007-0206-01

Quant Time: May 13 05:22:21 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W050919S.M  
Quant Title : SW846 8260  
QLast Update : Fri May 10 03:41:21 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: VW010403.D

Acq: 12 May 2019 12:53

Instrument :

MSVOA\_W

ClientSampleId :

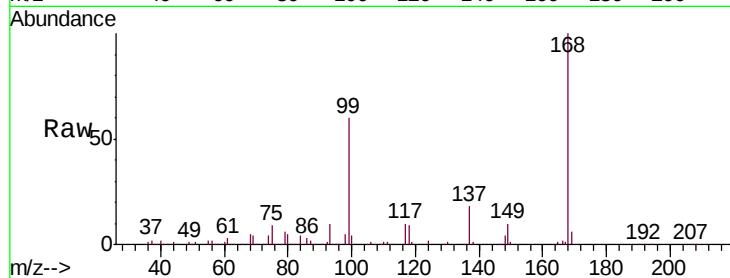
P026-SS007-0206-01

Tgt Ion:168 Resp: 207826

Ion Ratio Lower Upper

168 100

99 60.4 48.4 72.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

100000

80000

60000

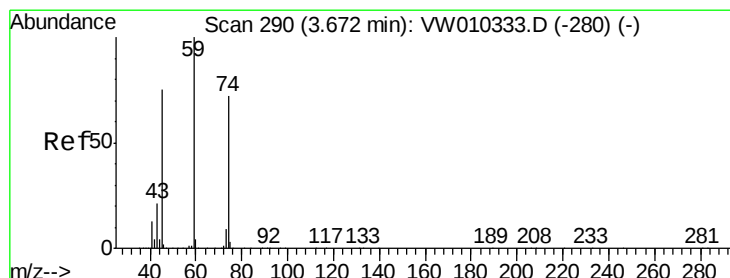
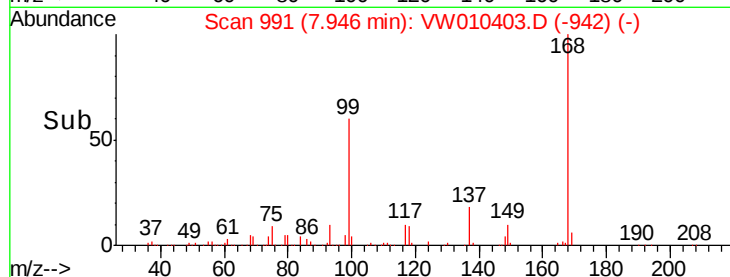
40000

20000

0

7.85 7.90 7.95 8.00 8.05

Time-->



#8

Diethyl Ether

Concen: 2.166 ug/l

RT: 3.68 min Scan# 292

Delta R.T. 0.01 min

Lab File: VW010403.D

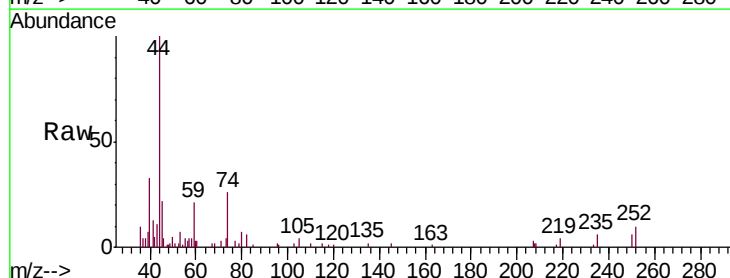
Acq: 12 May 2019 12:53

Tgt Ion: 74 Resp: 2520

Ion Ratio Lower Upper

74 100

45 103.4 56.0 168.0



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

1500

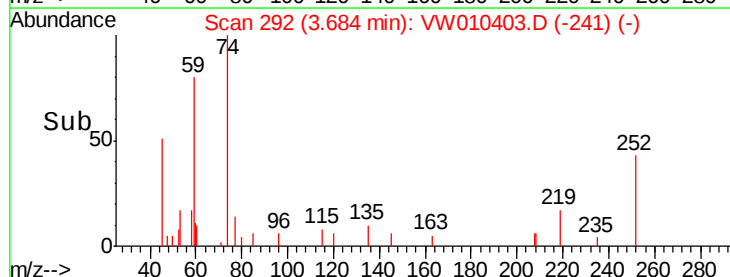
1000

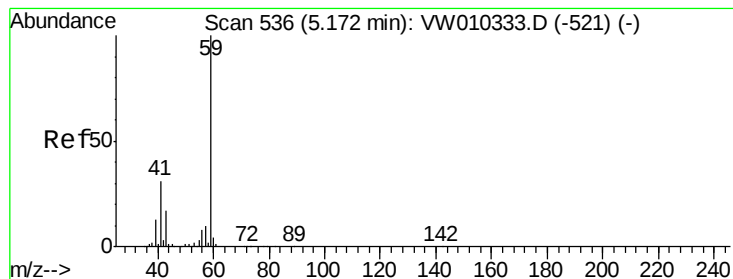
500

0

3.60 3.65 3.70 3.75

Time-->





#11

Tert butyl alcohol

Concen: 11.017 ug/l

RT: 5.18 min Scan# 538

Delta R.T. 0.01 min

Lab File: VW010403.D

Acq: 12 May 2019 12:53

Instrument :

MSVOA\_W

ClientSampleId :

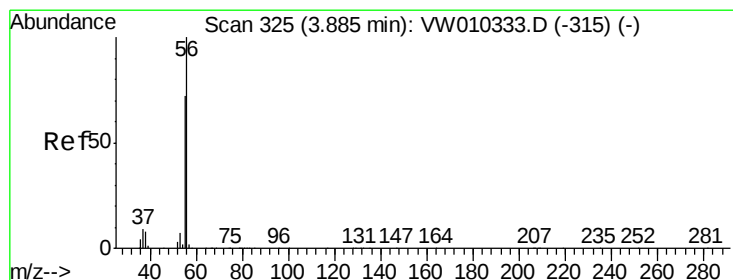
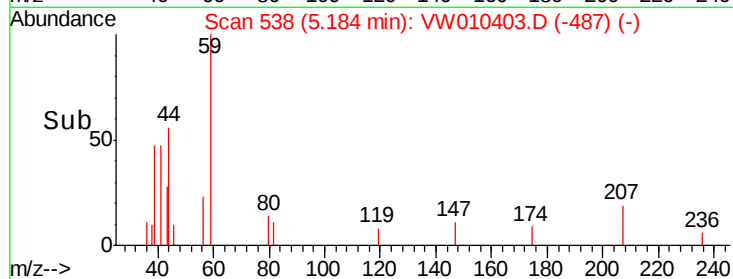
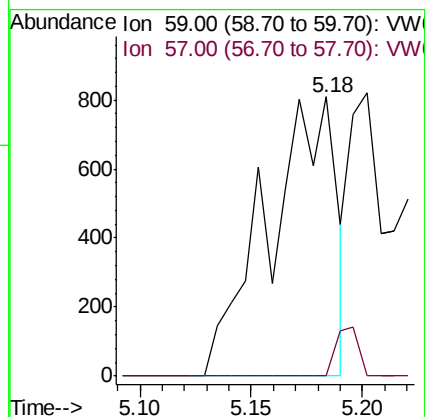
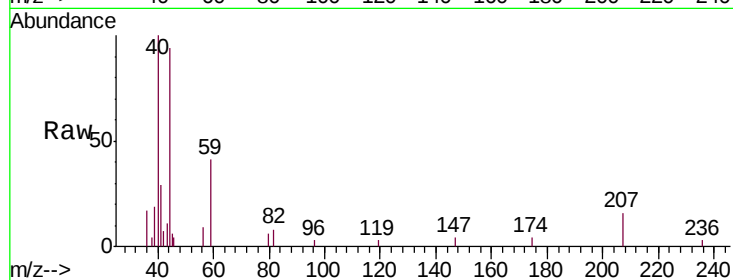
P026-SS007-0206-01

Tgt Ion: 59 Resp: 1719

Ion Ratio Lower Upper

59 100

57 5.8 9.0 13.4#



#13

Acrolein

Concen: 1.311 ug/l

RT: 3.87 min Scan# 323

Delta R.T. -0.01 min

Lab File: VW010403.D

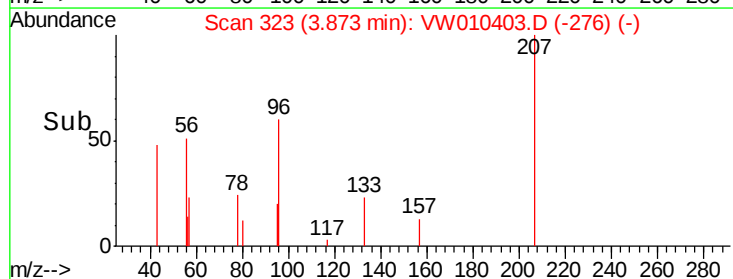
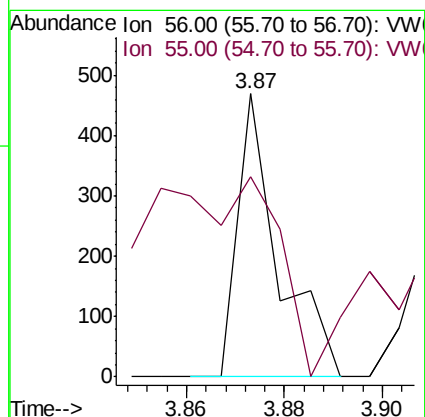
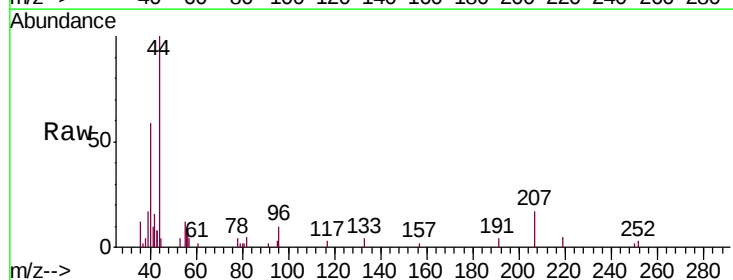
Acq: 12 May 2019 12:53

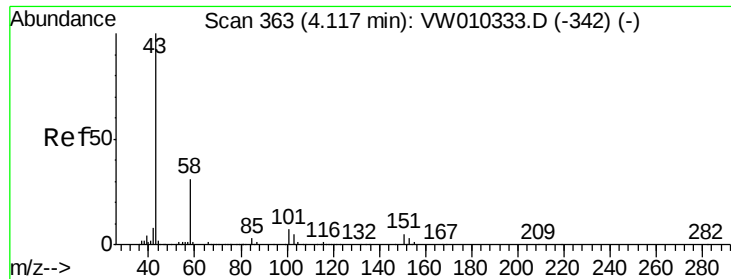
Tgt Ion: 56 Resp: 270

Ion Ratio Lower Upper

56 100

55 0.0 54.2 81.2#





#16

Acetone

Concen: 71.801 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW010403.D

Acq: 12 May 2019 12:53

Instrument :

MSVOA\_W

ClientSampleId :

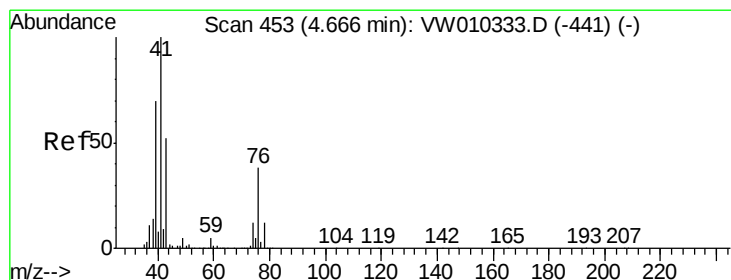
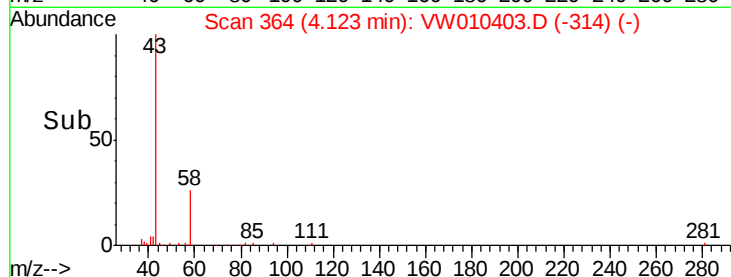
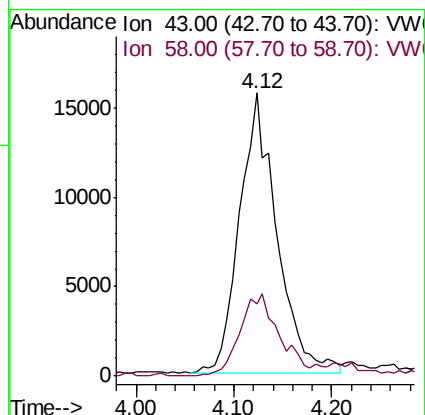
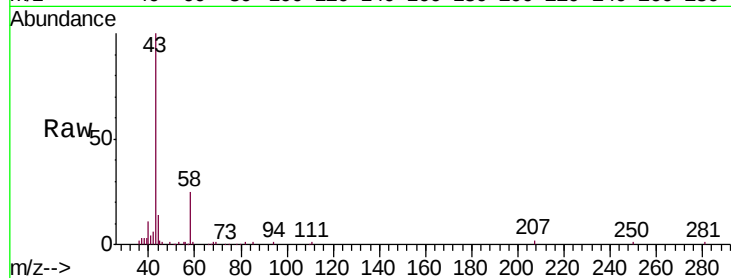
P026-SS007-0206-01

Tgt Ion: 43 Resp: 41357

Ion Ratio Lower Upper

43 100

58 25.6 22.7 34.1



#18

Methyl Acetate

Concen: 3.149 ug/l

RT: 4.65 min Scan# 451

Delta R.T. -0.01 min

Lab File: VW010403.D

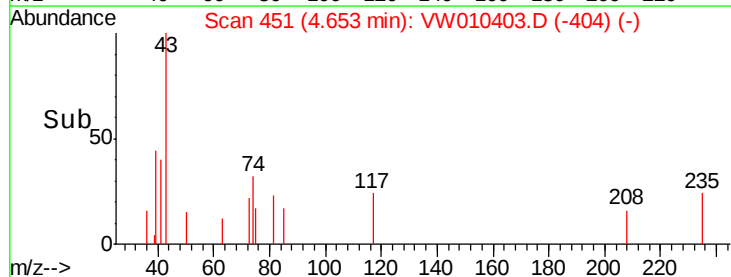
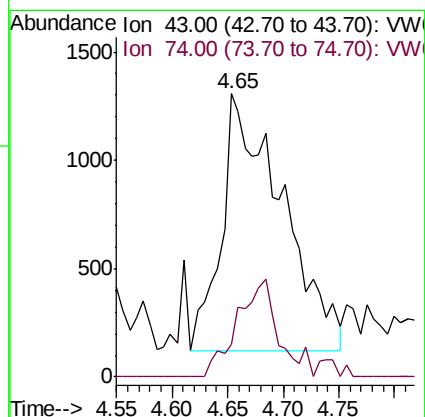
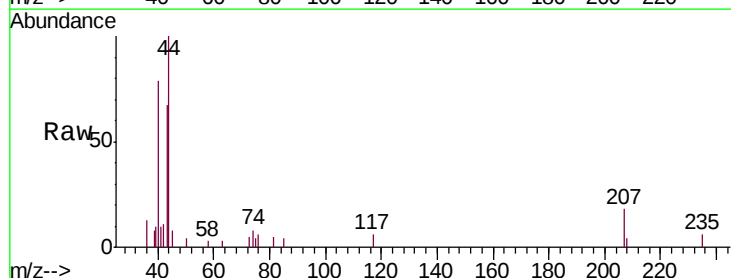
Acq: 12 May 2019 12:53

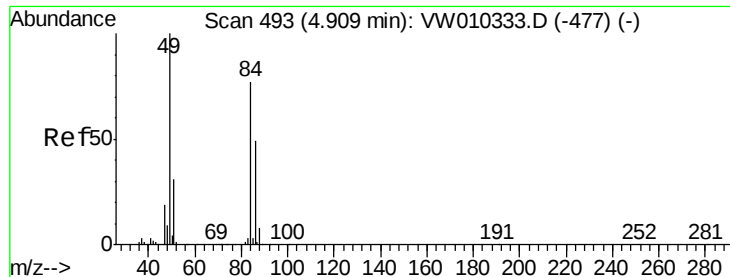
Tgt Ion: 43 Resp: 4493

Ion Ratio Lower Upper

43 100

74 0.0 16.8 25.2#

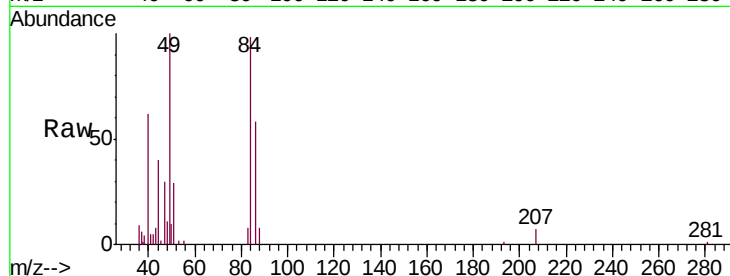




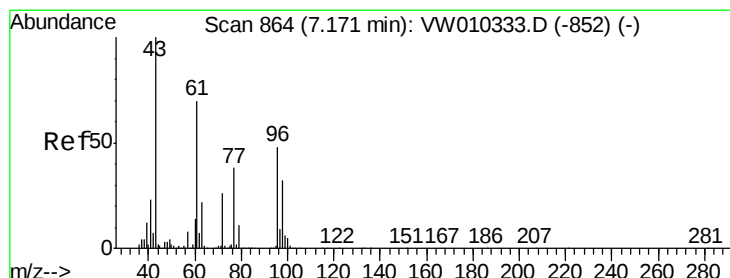
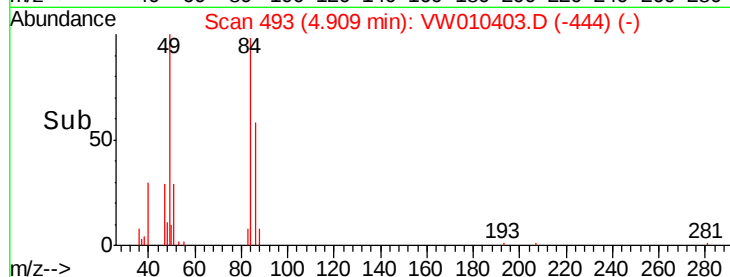
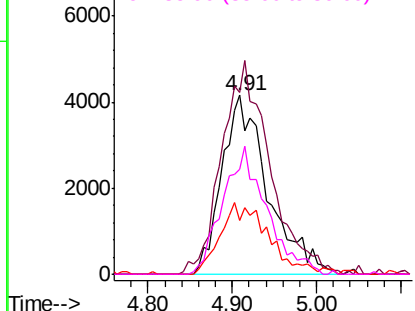
#20  
Methylene Chloride  
Concen: 6.443 ug/l  
RT: 4.91 min Scan# 493  
Delta R.T. -0.00 min  
Lab File: VW010403.D  
Acq: 12 May 2019 12:53

Instrument :  
MSVOA\_W  
ClientSampleId :  
P026-SS007-0206-01

Tgt Ion: 84 Resp: 15479  
Ion Ratio Lower Upper  
84 100  
49 99.4 112.3 168.5#  
51 29.9 33.9 50.9#  
86 58.5 50.2 75.4

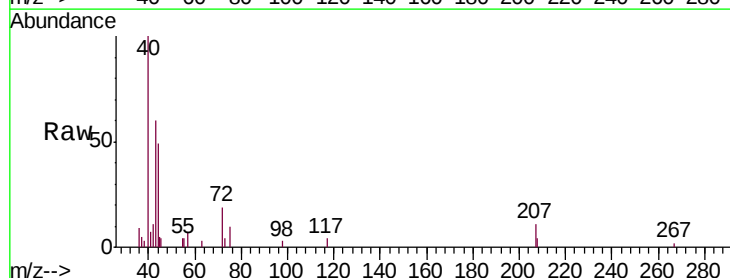


Abundance Ion 83.90 (83.60 to 84.60): VW  
Ion 48.90 (48.60 to 49.60): VW  
Ion 50.90 (50.60 to 51.60): VW  
Ion 85.90 (85.60 to 86.60): VW

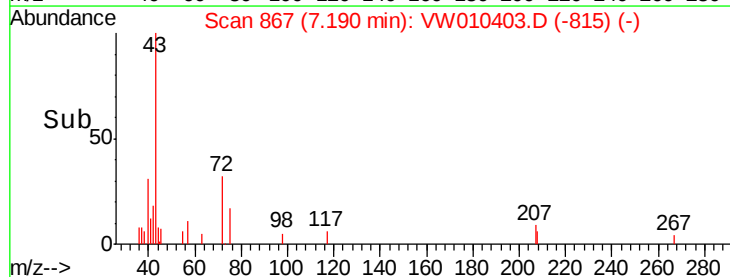
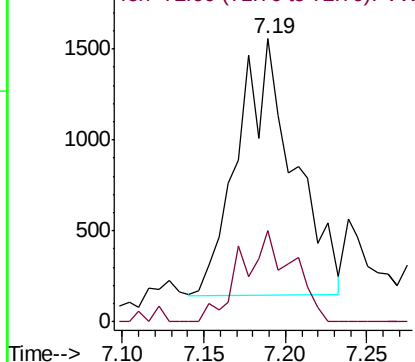


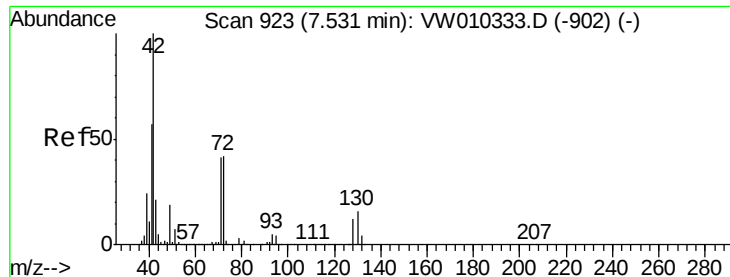
#25  
2-Butanone  
Concen: 3.826 ug/l  
RT: 7.19 min Scan# 867  
Delta R.T. 0.02 min  
Lab File: VW010403.D  
Acq: 12 May 2019 12:53

Tgt Ion: 43 Resp: 3371  
Ion Ratio Lower Upper  
43 100  
72 35.7 19.1 28.7#



Abundance Ion 43.00 (42.70 to 43.70): VW  
Ion 72.00 (71.70 to 72.70): VW





#29

Tetrahydrofuran

Concen: 4.171 ug/l

RT: 7.54 min Scan# 925

Delta R.T. 0.01 min

Lab File: VW010403.D

Acq: 12 May 2019 12:53

Instrument :

MSVOA\_W

ClientSampleId :

P026-SS007-0206-01

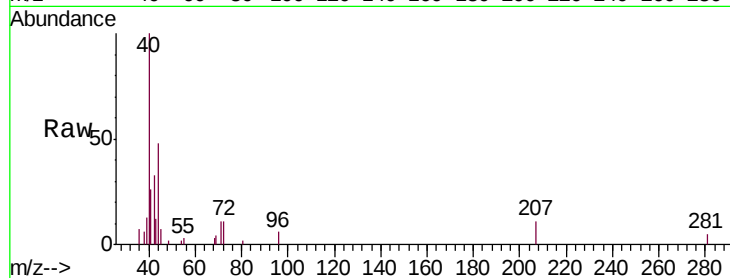
Tgt Ion: 42 Resp: 2377

Ion Ratio Lower Upper

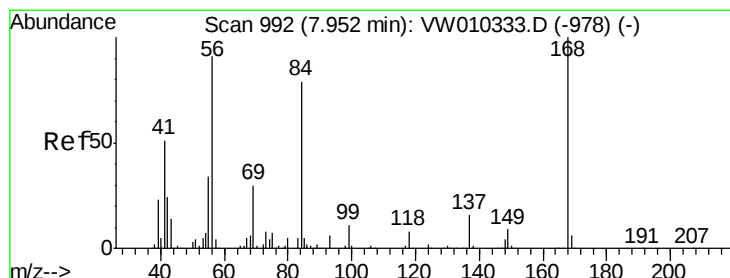
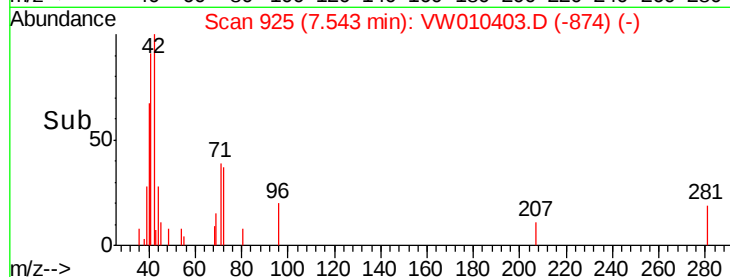
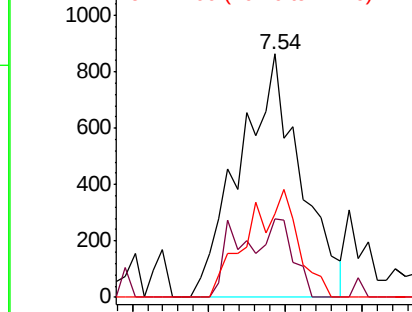
42 100

72 14.9 31.0 46.6#

71 36.5 29.7 44.5



Abundance Ion 42.00 (41.70 to 42.70): VW  
Ion 72.00 (71.70 to 72.70): VW  
Ion 71.00 (70.70 to 71.70): VW



#31

Cyclohexane

Concen: 1.244 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.01 min

Lab File: VW010403.D

Acq: 12 May 2019 12:53

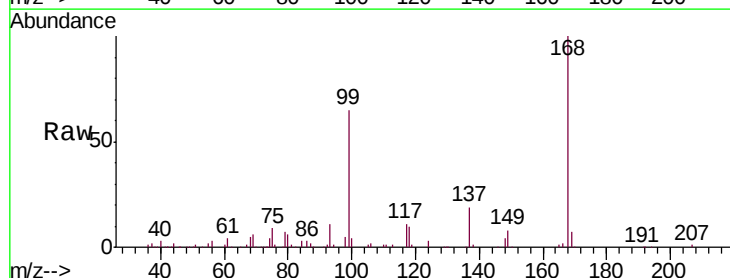
Tgt Ion: 56 Resp: 5632

Ion Ratio Lower Upper

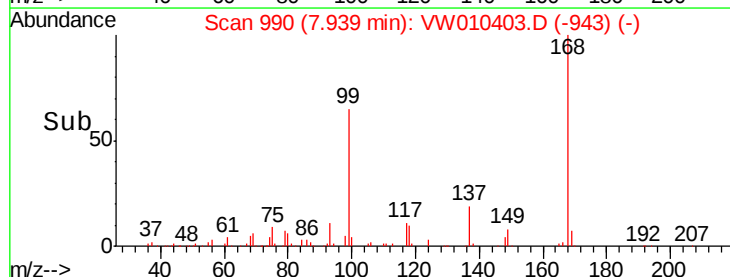
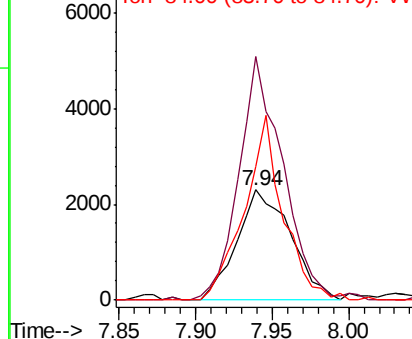
56 100

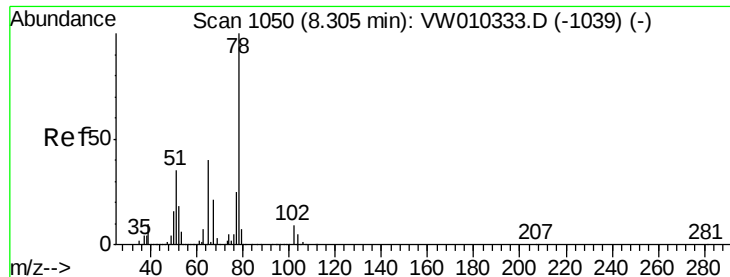
69 221.6 26.6 40.0#

84 122.0 66.2 99.2#



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: 156.949 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW010403.D

Acq: 12 May 2019 12:53

Instrument :

MSVOA\_W

ClientSampleId :

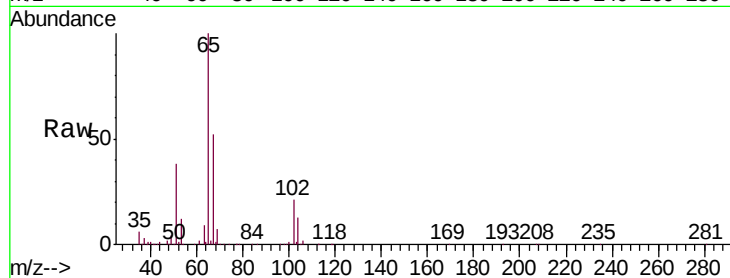
P026-SS007-0206-01

Tgt Ion: 65 Resp: 346774

Ion Ratio Lower Upper

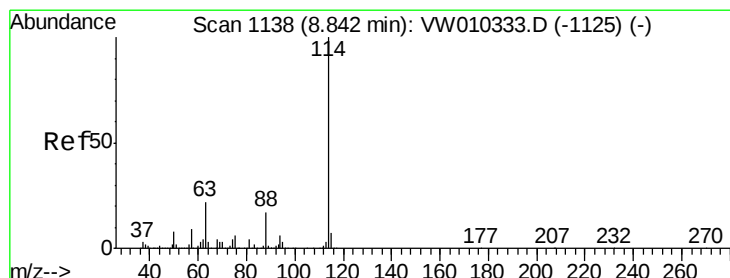
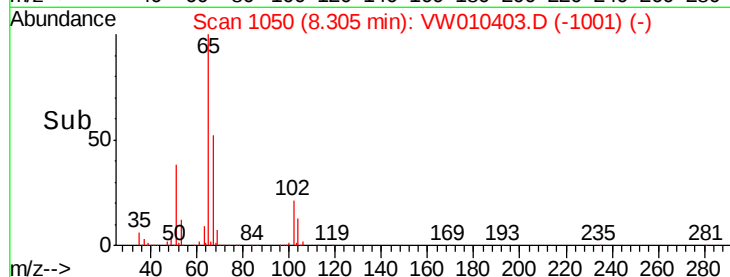
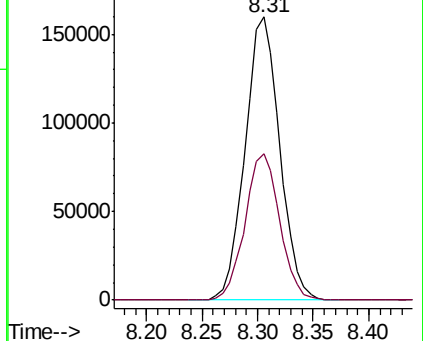
65 100

67 51.9 0.0 100.8



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: VW010403.D

Acq: 12 May 2019 12:53

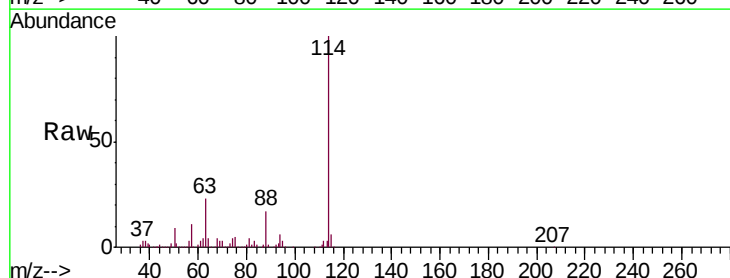
Tgt Ion: 114 Resp: 441176

Ion Ratio Lower Upper

114 100

63 23.4 0.0 46.2

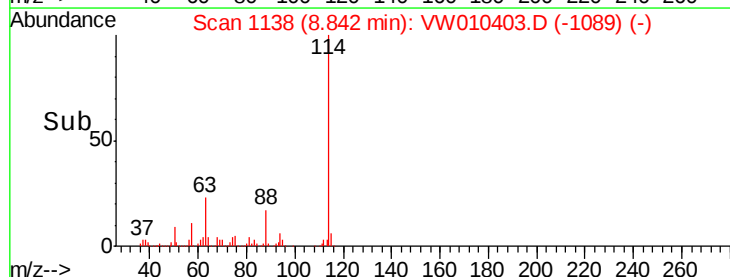
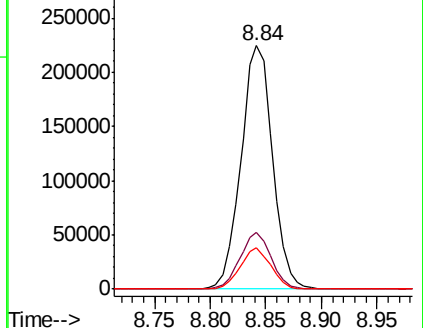
88 16.9 0.0 32.6

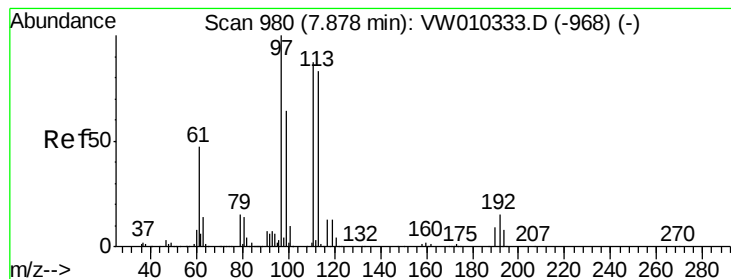


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW





#35

Dibromofluoromethane

Concen: 93.782 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.01 min

Lab File: VW010403.D

Acq: 12 May 2019 12:53

Instrument :

MSVOA\_W

ClientSampleId :

P026-SS007-0206-01

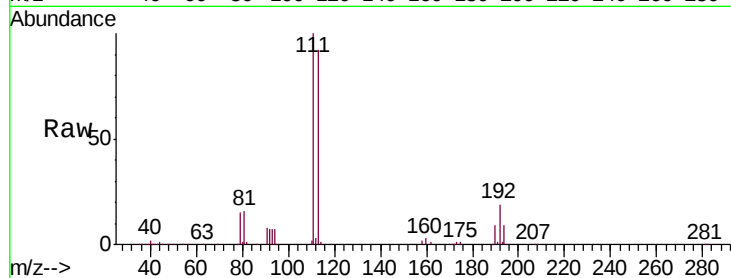
Tgt Ion:113 Resp: 242118

Ion Ratio Lower Upper

113 100

111 103.7 82.6 123.8

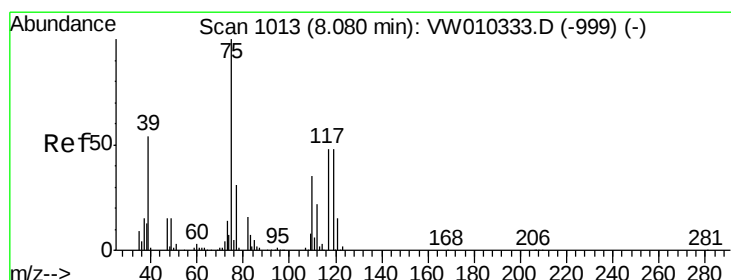
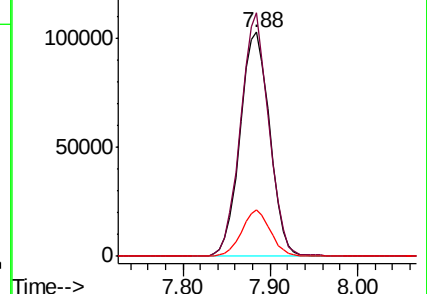
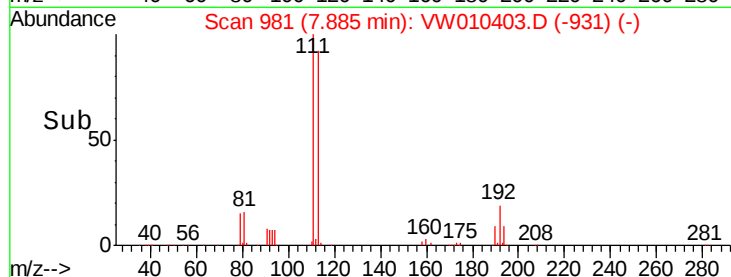
192 20.1 15.4 23.2



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: 3.894 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW010403.D

Acq: 12 May 2019 12:53

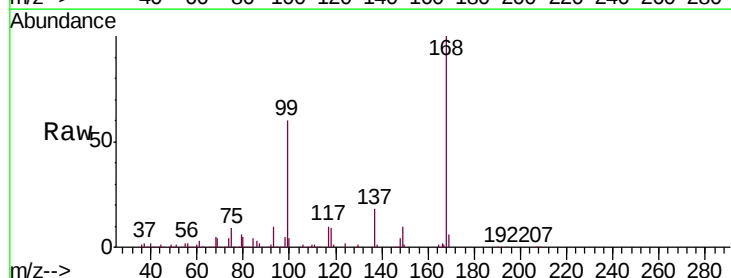
Tgt Ion: 75 Resp: 18629

Ion Ratio Lower Upper

75 100

110 9.1 16.6 49.8#

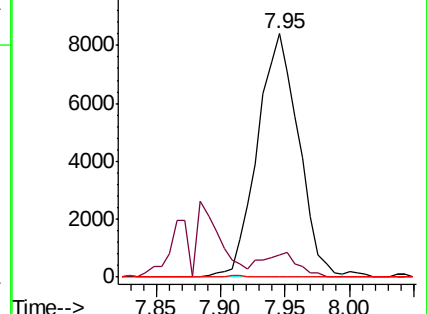
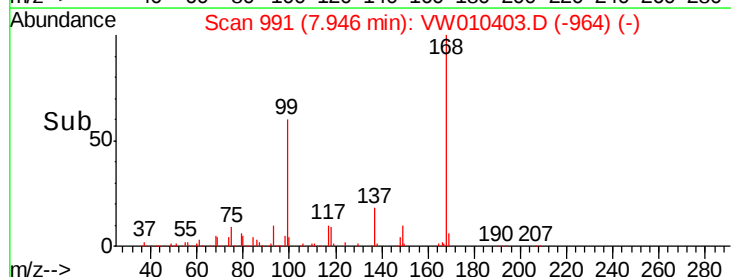
77 0.0 24.8 37.2#

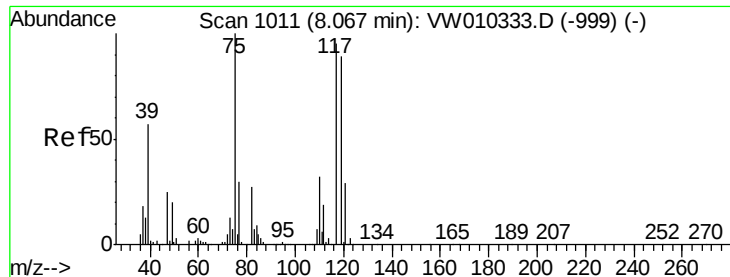


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW





#38

Carbon Tetrachloride

Concen: 5.163 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.13 min

Lab File: VW010403.D

Acq: 12 May 2019 12:53

Instrument :

MSVOA\_W

ClientSampleId :

P026-SS007-0206-01

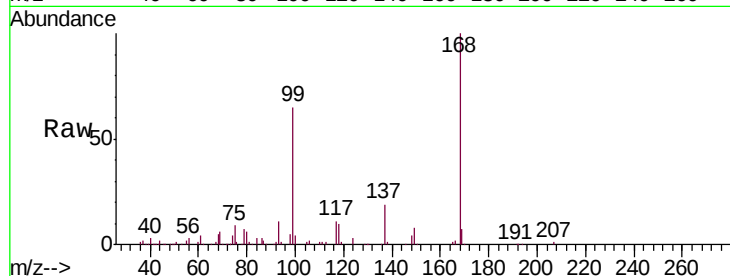
Tgt Ion: 117 Resp: 21170

Ion Ratio Lower Upper

117 100

119 5.6 75.3 112.9#

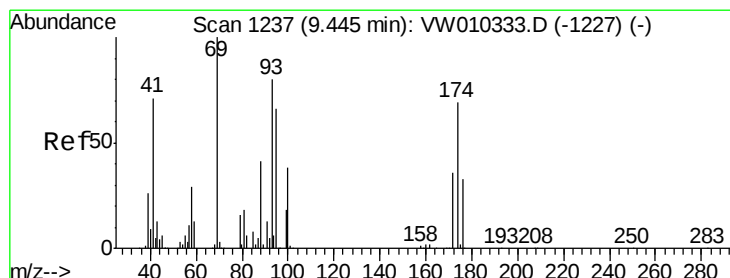
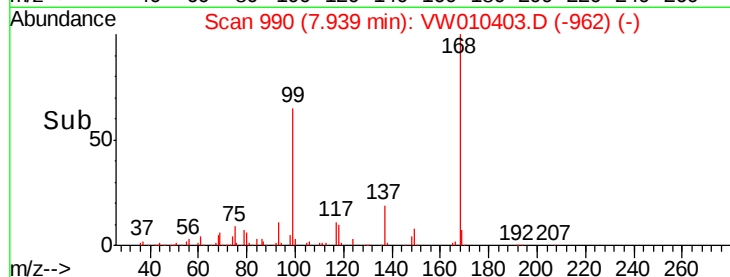
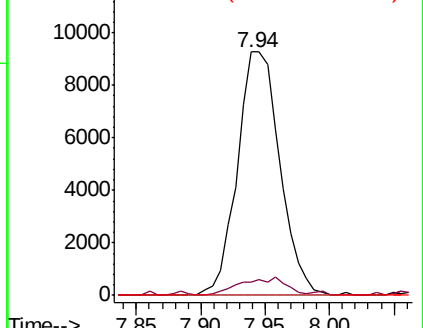
121 0.0 24.4 36.6#



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



#49

1,4-Dioxane

Concen: 10.328 ug/l

RT: 9.46 min Scan# 1240

Delta R.T. 0.02 min

Lab File: VW010403.D

Acq: 12 May 2019 12:53

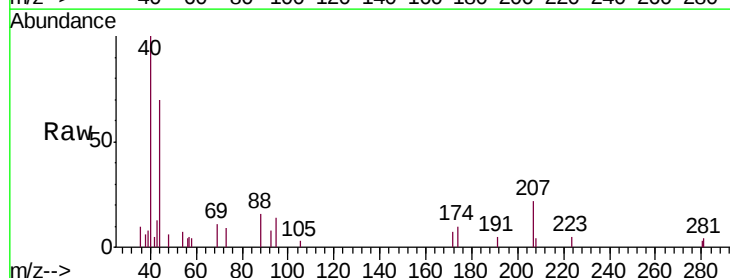
Tgt Ion: 88 Resp: 303

Ion Ratio Lower Upper

88 100

43 105.9 31.9 47.9#

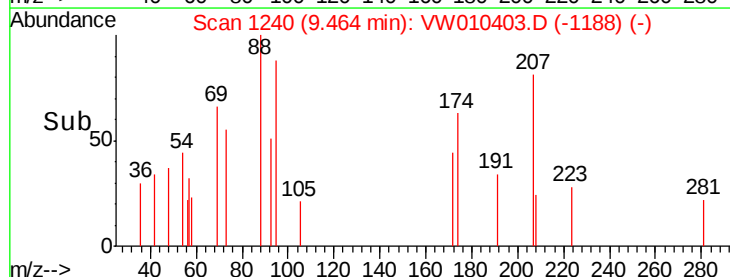
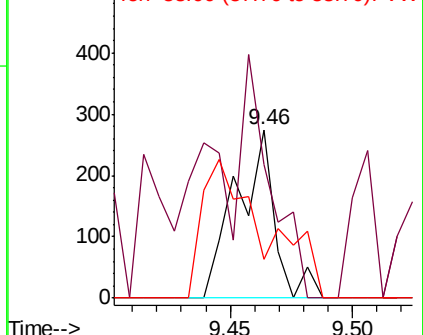
58 0.0 61.8 92.6#

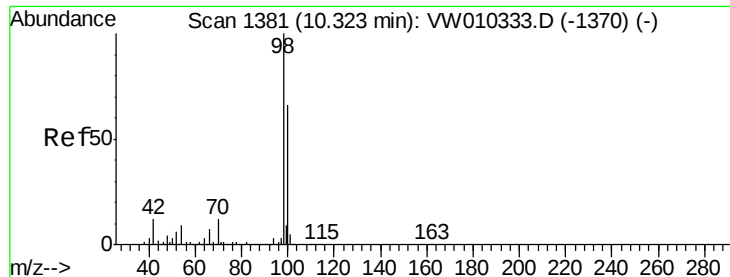


Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#50

Toluene-d8

Concen: 22.933 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW010403.D

Acq: 12 May 2019 12:53

Instrument :

MSVOA\_W

ClientSampleId :

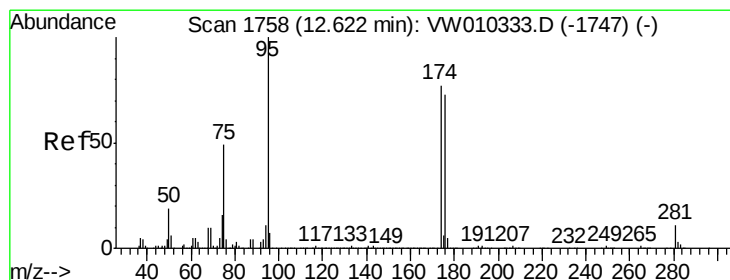
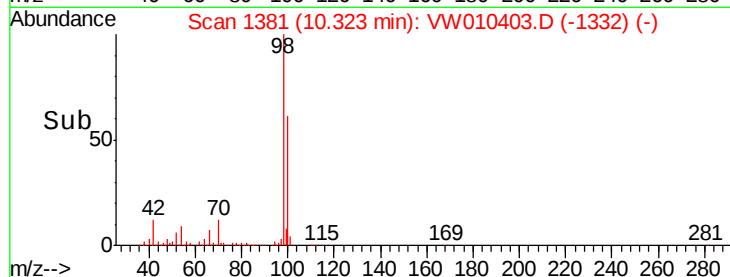
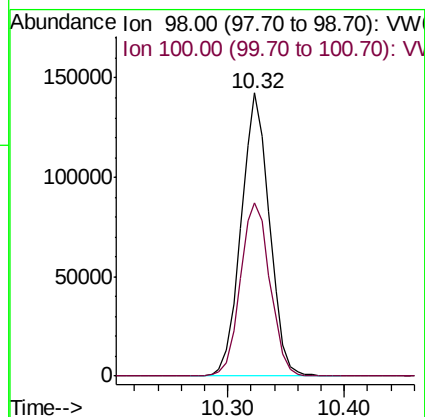
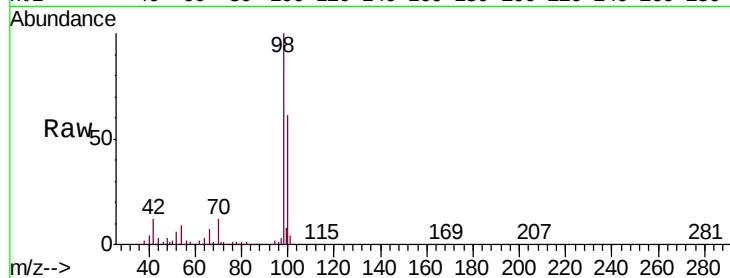
P026-SS007-0206-01

Tgt Ion: 98 Resp: 241085

Ion Ratio Lower Upper

98 100

100 64.1 52.3 78.5



#62

4-Bromofluorobenzene

Concen: 20.815 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW010403.D

Acq: 12 May 2019 12:53

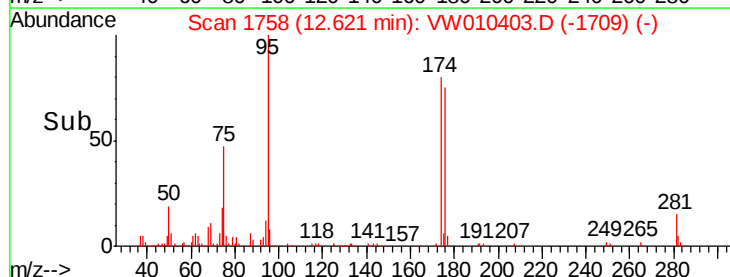
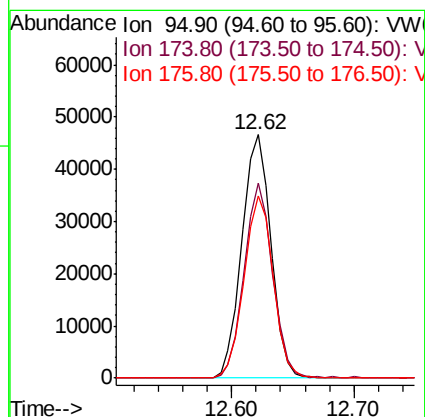
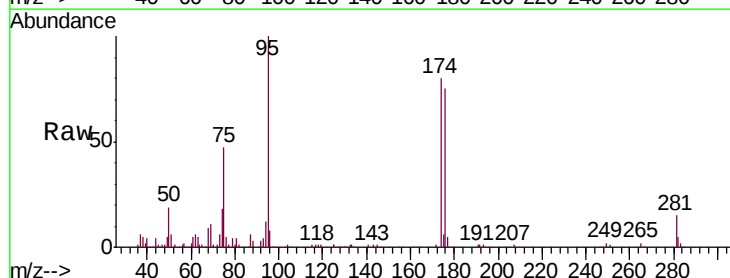
Tgt Ion: 95 Resp: 77028

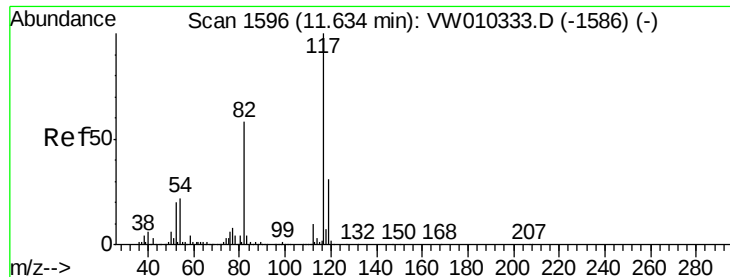
Ion Ratio Lower Upper

95 100

174 78.4 0.0 151.4

176 74.9 0.0 146.2

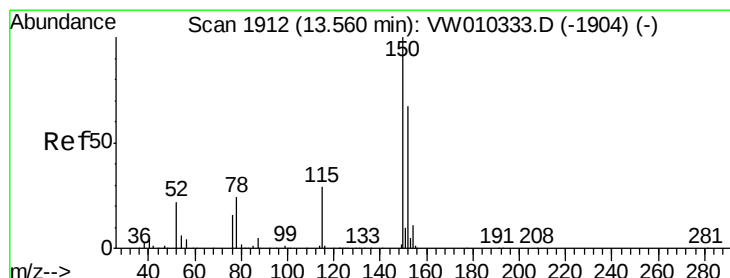
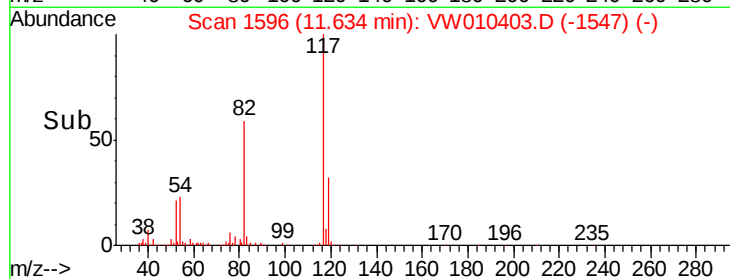
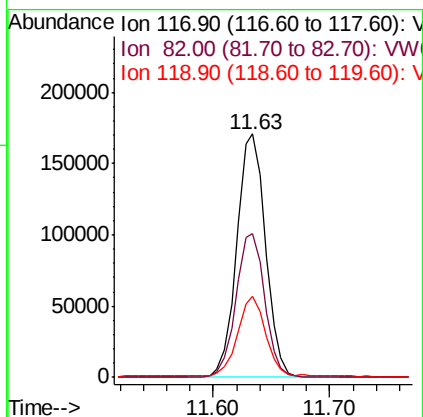
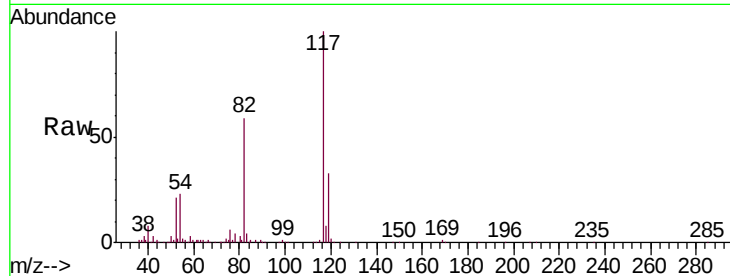




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. -0.00 min  
Lab File: VW010403.D  
Acq: 12 May 2019 12:53

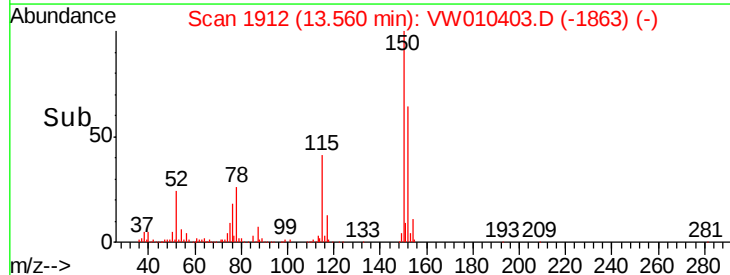
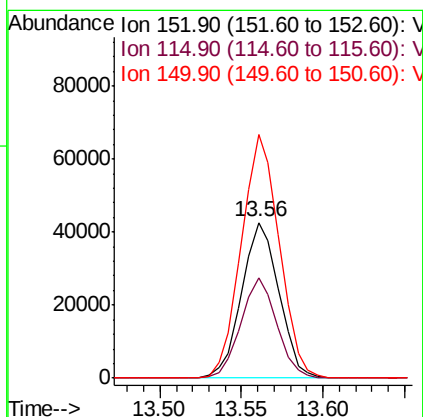
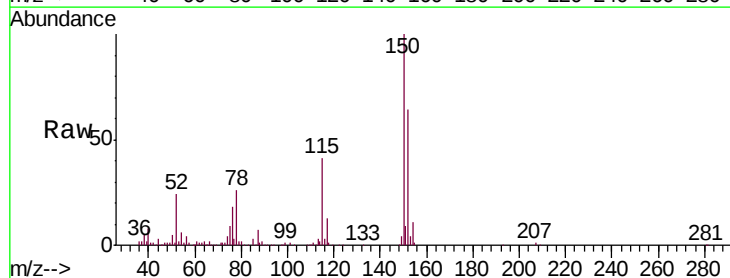
Instrument :  
MSVOA\_W  
ClientSampleId :  
P026-SS007-0206-01

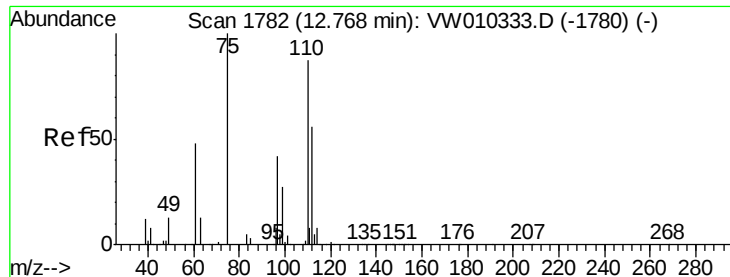
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 59.3  | 45.2  | 67.8  |
| 119     | 32.4  | 25.4  | 38.2  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. -0.00 min  
Lab File: VW010403.D  
Acq: 12 May 2019 12:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 62.3  | 30.4  | 91.2  |
| 150     | 158.8 | 0.0   | 347.0 |





#76

1,2,3-Trichloropropane

Concen: 49.065 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW010403.D

Acq: 12 May 2019 12:53

Instrument :

MSVOA\_W

ClientSampleId :

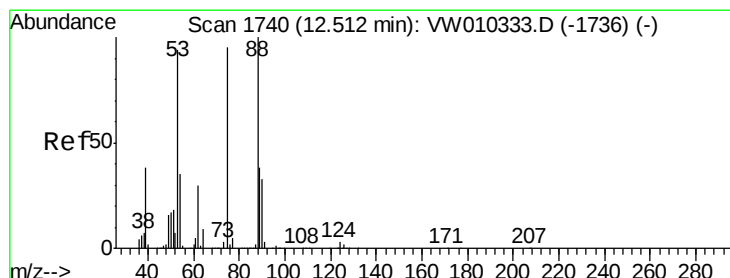
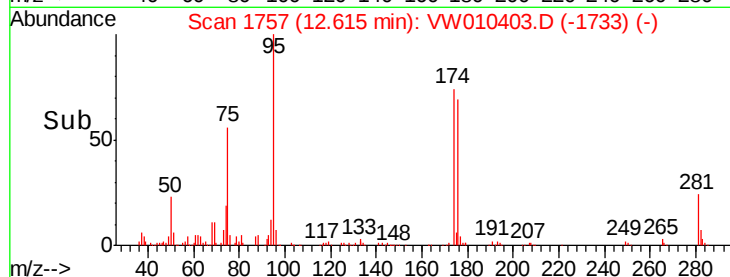
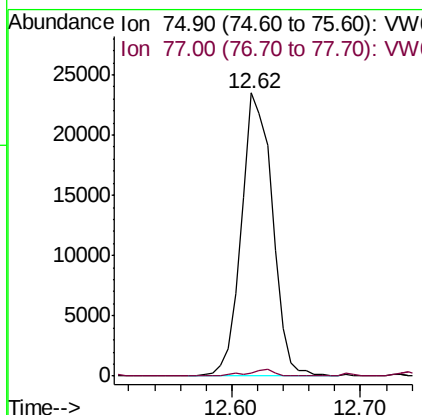
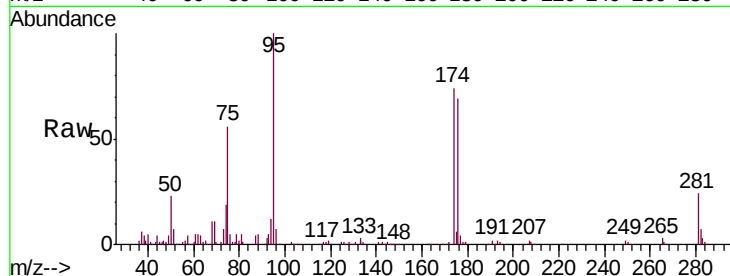
P026-SS007-0206-01

Tgt Ion: 75 Resp: 39014

Ion Ratio Lower Upper

75 100

77 2.1 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 110.803 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW010403.D

Acq: 12 May 2019 12:53

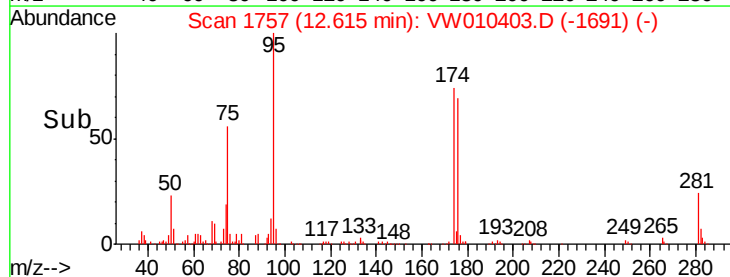
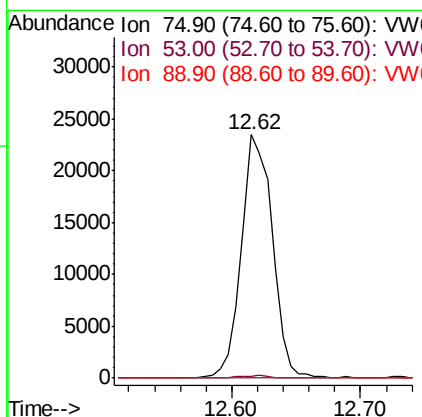
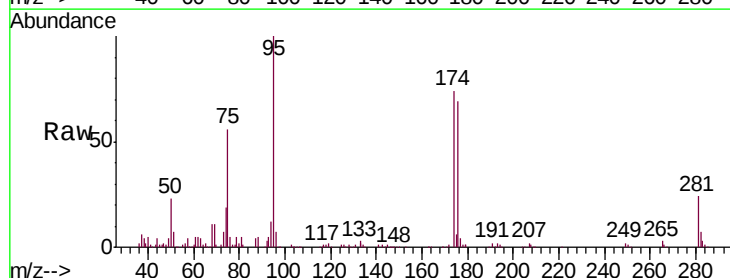
Tgt Ion: 75 Resp: 39014

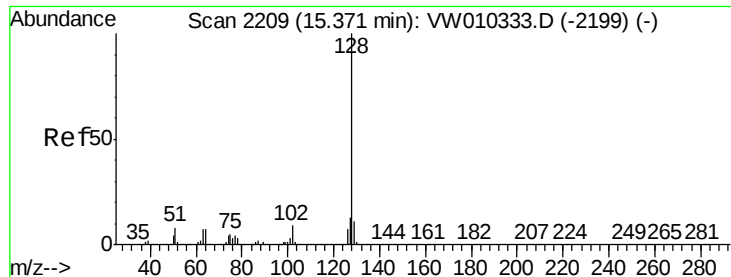
Ion Ratio Lower Upper

75 100

53 1.0 89.8 134.8#

89 0.0 36.6 54.8#





#95

Naphthalene

Concen: 4.329 ug/l

RT: 15.38 min Scan# 2210

Delta R.T. 0.01 min

Lab File: VW010403.D

Acq: 12 May 2019 12:53

Instrument :

MSVOA\_W

ClientSampleId :

P026-SS007-0206-01

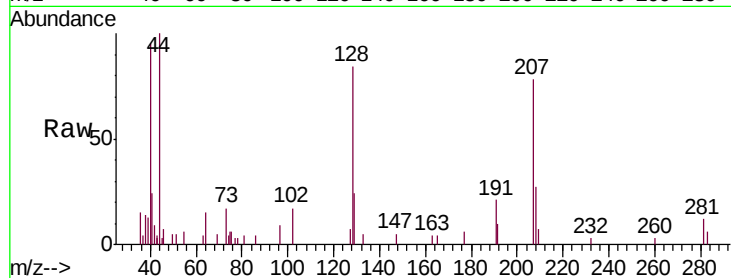
Tgt Ion:128 Resp: 2448

Ion Ratio Lower Upper

128 100

127 3.8 10.6 15.8#

129 16.0 8.7 13.1#



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

