

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW122418\  
 Data File : VW007878.D  
 Acq On : 23 Dec 2018 08:18  
 Operator : SY/AP  
 Sample : J6446-06  
 Misc : 6.03G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 41 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 P001-SS026-1824-01

Quant Time: Dec 24 00:01:07 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W122118S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 20 06:30:23 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 82881    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 142946   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 108789   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 36347    | 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   | 49645    | 54.65  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 109.30% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 41850    | 47.99  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 95.98%  |          |
| 50) Toluene-d8              | 10.32 | 98   | 144164   | 43.85  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 87.70%  |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 42727    | 33.64  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 67.28%  |          |

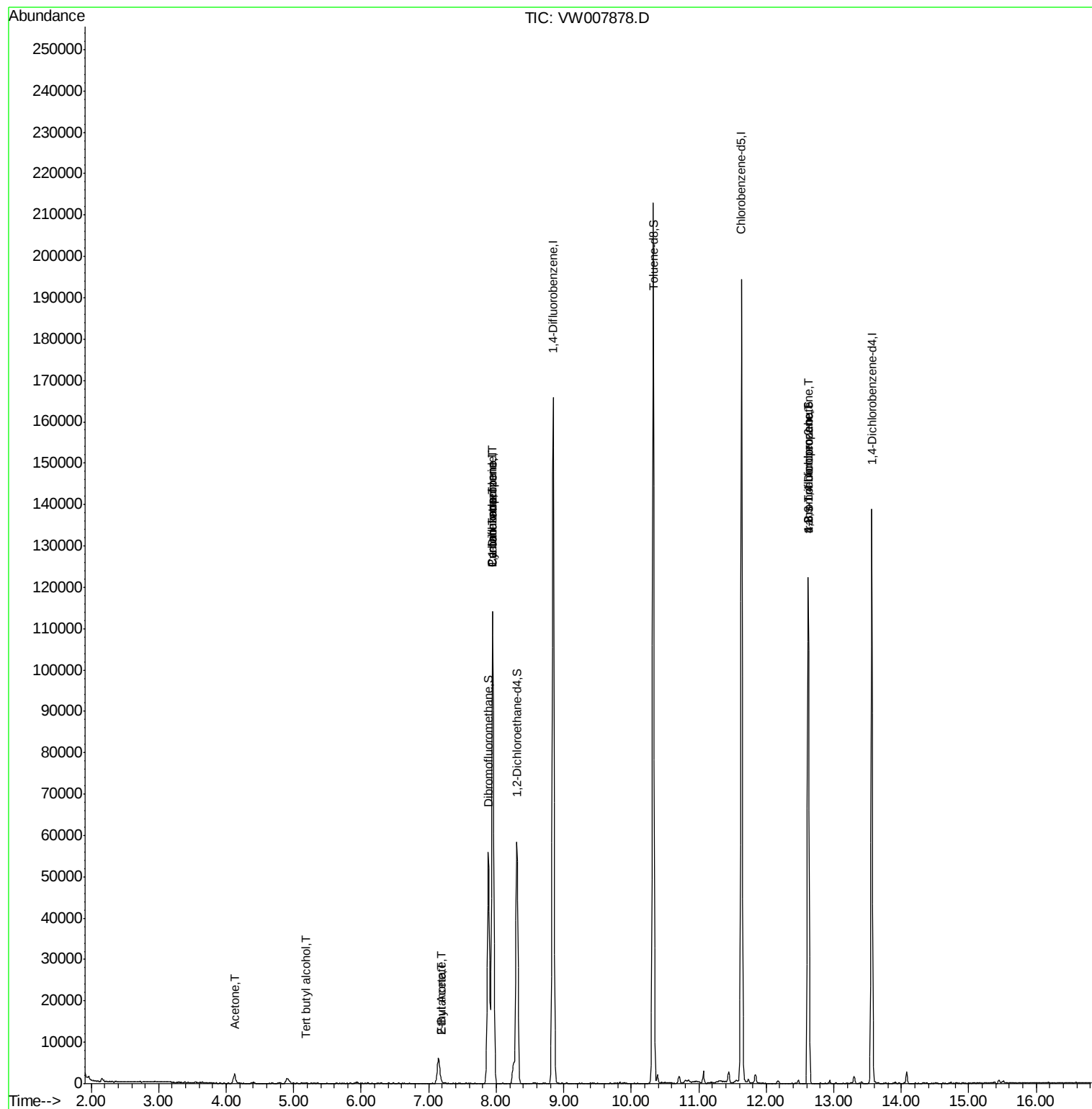
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 5.18  | 59   | 84       | 1.371     | ug/l # | 73     |
| 16) Acetone                    | 4.12  | 43   | 3787     | 22.262    | ug/l # | 87     |
| 20) Methylene Chloride         | 4.90  | 84   | 574      | Below Cal | #      | 88     |
| 25) 2-Butanone                 | 7.19  | 43   | 702      | 3.523     | ug/l # | 44     |
| 31) Cyclohexane                | 7.94  | 56   | 1627     | 1.203     | ug/l # | 39     |
| 36) 1,1-Dichloropropene        | 7.94  | 75   | 6688     | 4.847     | ug/l # | 50     |
| 37) Ethyl Acetate              | 7.19  | 43   | 702      | 1.474     | ug/l # | 68     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 8953     | 5.510     | ug/l # | 14     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 21271    | 75.717    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 21271    | 158.935   | ug/l # | 9      |

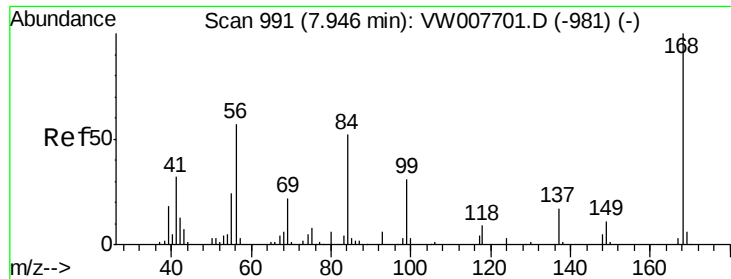
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Thu Dec 20 06:30:23 2018  
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: VW007878.D

Acq: 23 Dec 2018 08:18

Instrument :

MSVOA\_W

ClientSampleId :

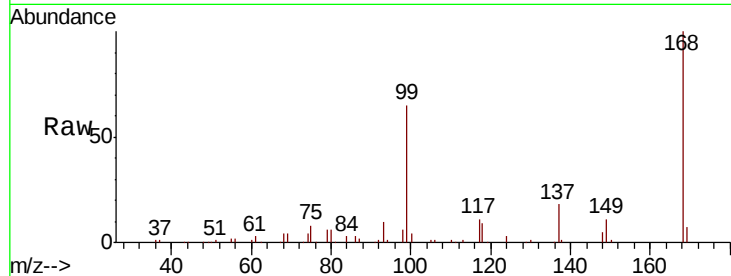
P001-SS026-1824-01

Tgt Ion:168 Resp: 82881

Ion Ratio Lower Upper

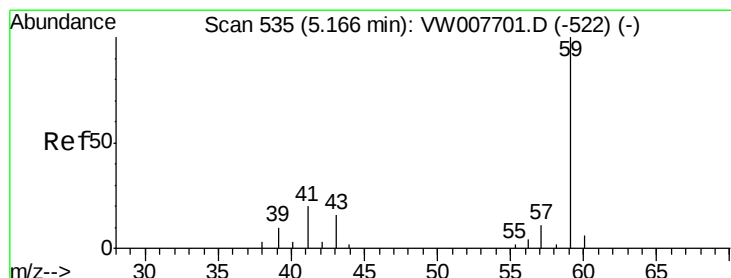
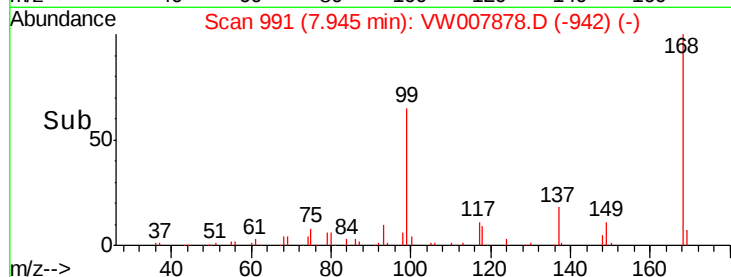
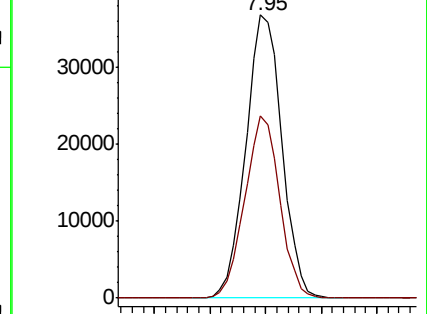
168 100

99 64.5 54.0 81.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: 1.371 ug/l

RT: 5.18 min Scan# 537

Delta R.T. 0.01 min

Lab File: VW007878.D

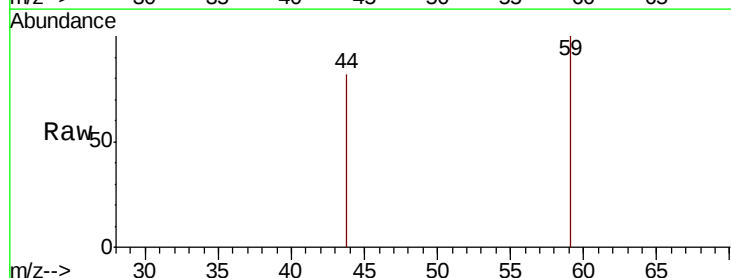
Acq: 23 Dec 2018 08:18

Tgt Ion: 59 Resp: 84

Ion Ratio Lower Upper

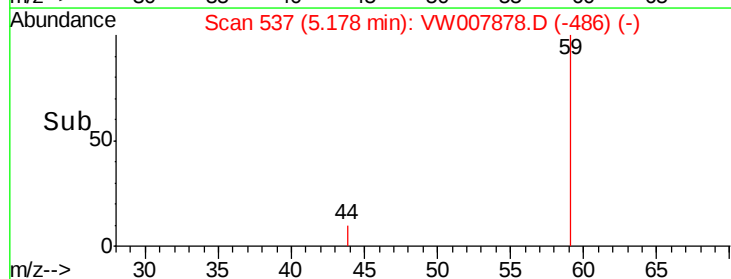
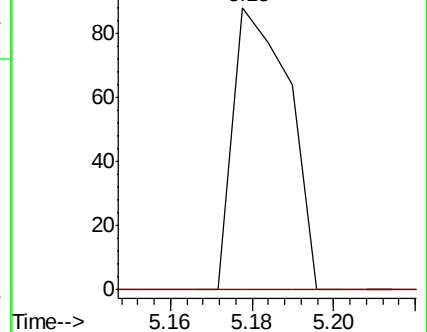
59 100

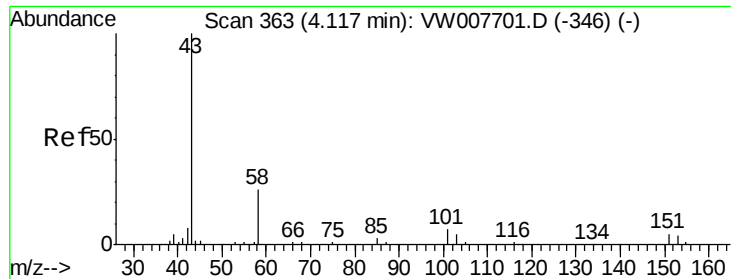
57 0.0 7.8 11.8#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#16

Acetone

Concen: 22.262 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW007878.D

Acq: 23 Dec 2018 08:18

Instrument :

MSVOA\_W

ClientSampleId :

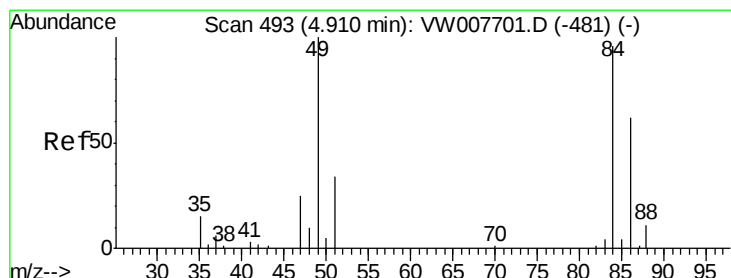
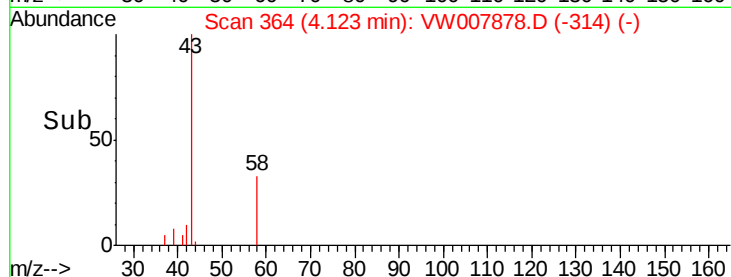
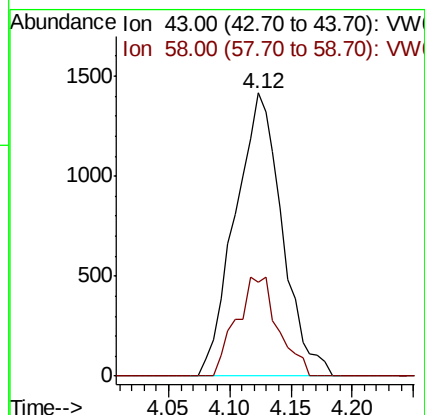
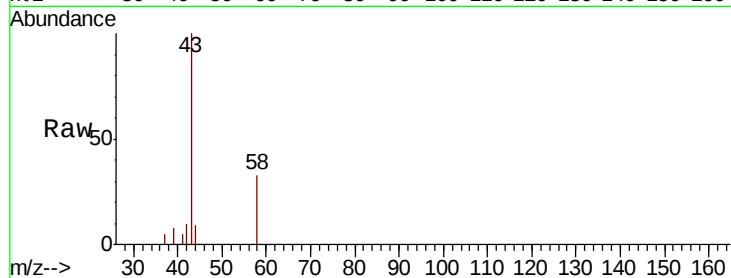
P001-SS026-1824-01

Tgt Ion: 43 Resp: 3787

Ion Ratio Lower Upper

43 100

58 33.3 21.2 31.8#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.90 min Scan# 492

Delta R.T. -0.01 min

Lab File: VW007878.D

Acq: 23 Dec 2018 08:18

Tgt Ion: 84 Resp: 574

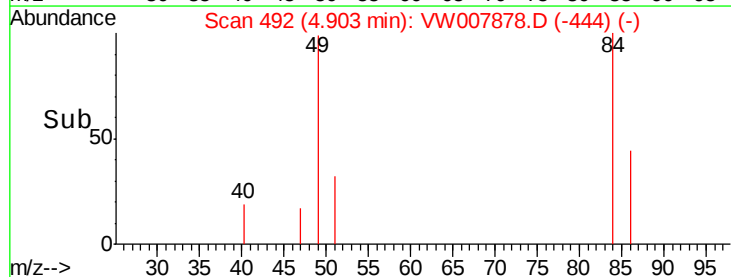
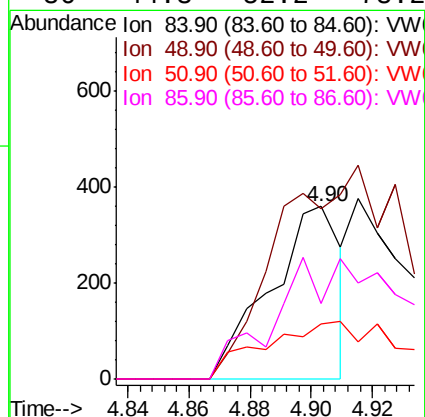
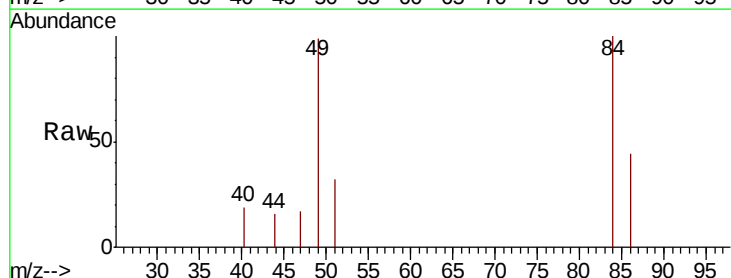
Ion Ratio Lower Upper

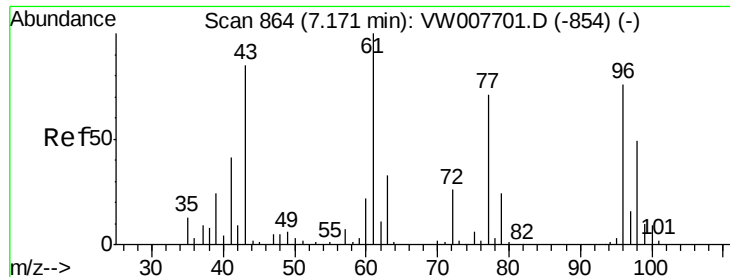
84 100

49 99.2 83.7 125.5

51 32.0 28.2 42.2

86 44.3 52.2 78.2#

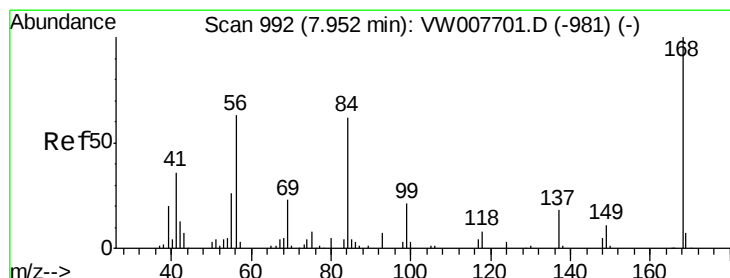
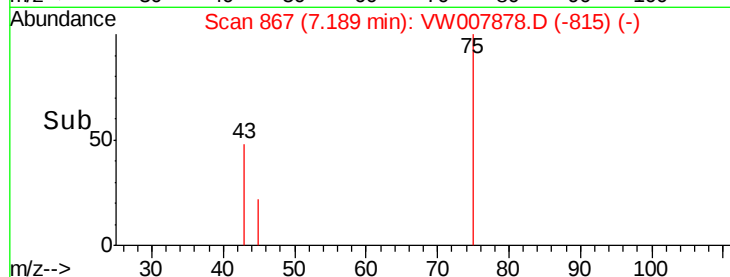
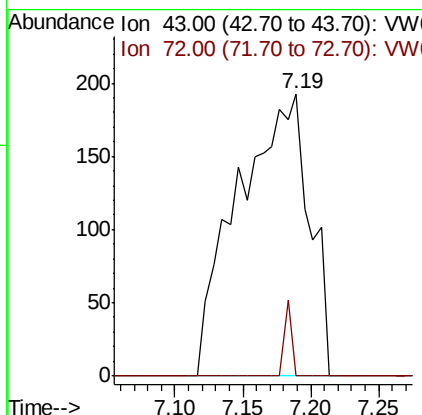
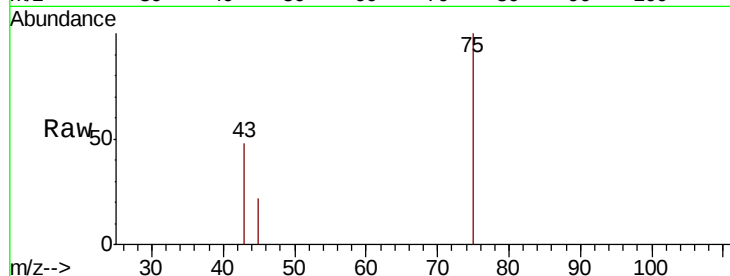




#25  
2-Butanone  
Concen: 3.523 ug/l  
RT: 7.19 min Scan# 867  
Delta R.T. 0.02 min  
Lab File: VW007878.D  
Acq: 23 Dec 2018 08:18

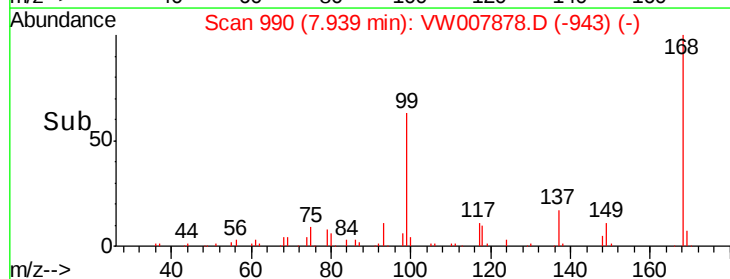
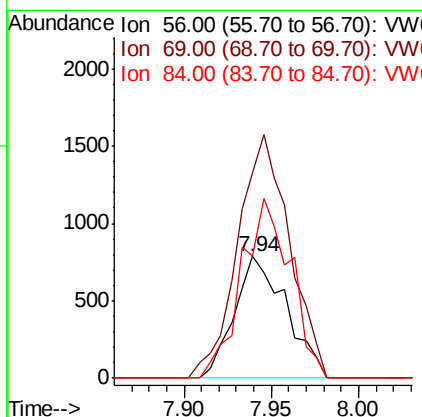
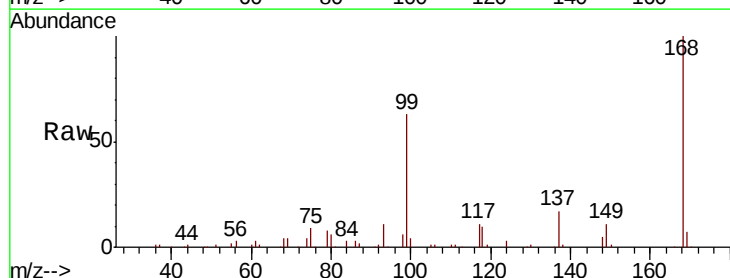
Instrument :  
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P001-SS026-1824-01

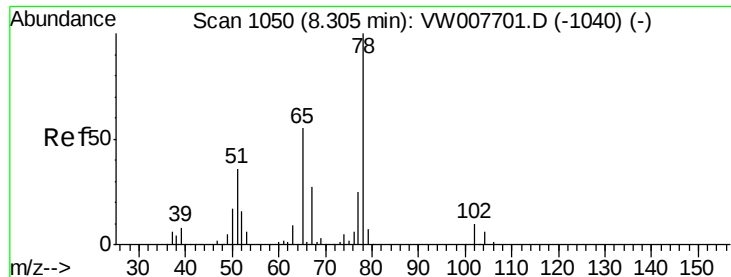
Tgt Ion: 43 Resp: 702  
Ion Ratio Lower Upper  
43 100  
72 0.0 24.5 36.7#



#31  
Cyclohexane  
Concen: 1.203 ug/l  
RT: 7.94 min Scan# 990  
Delta R.T. -0.01 min  
Lab File: VW007878.D  
Acq: 23 Dec 2018 08:18

Tgt Ion: 56 Resp: 1627  
Ion Ratio Lower Upper  
56 100  
69 168.3 29.7 44.5#  
84 100.3 78.9 118.3





#33

1,2-Dichloroethane-d4

Concen: 54.650 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW007878.D

Acq: 23 Dec 2018 08:18

Instrument :

MSVOA\_W

ClientSampleId :

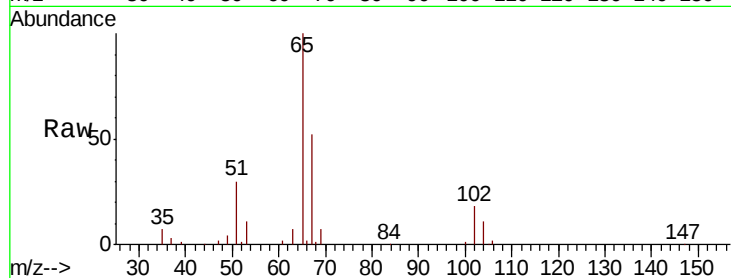
P001-SS026-1824-01

Tgt Ion: 65 Resp: 49645

Ion Ratio Lower Upper

65 100

67 50.2 0.0 100.6



Abundance Ion 64.90 (64.60 to 65.60): VW

Ion 66.90 (66.60 to 67.60): VW

8.31

25000

20000

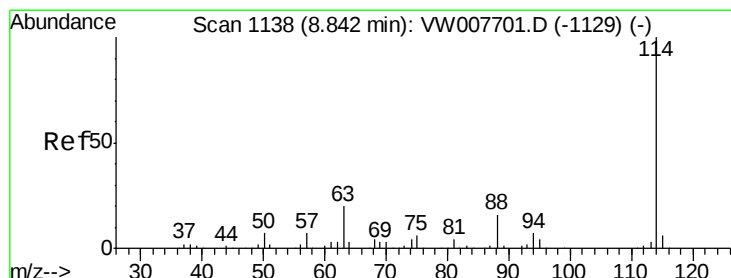
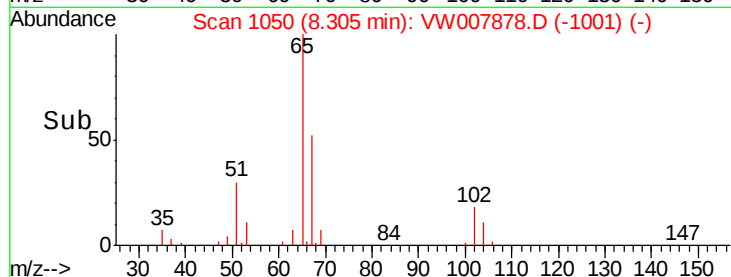
15000

10000

5000

0

Time--> 8.20 8.25 8.30 8.35 8.40



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VW007878.D

Acq: 23 Dec 2018 08:18

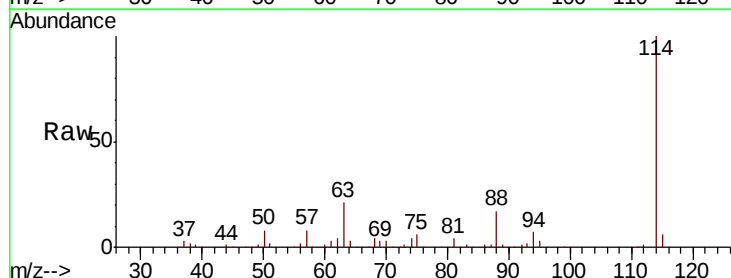
Tgt Ion: 114 Resp: 142946

Ion Ratio Lower Upper

114 100

63 20.9 0.0 40.0

88 17.1 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

8.84

100000

80000

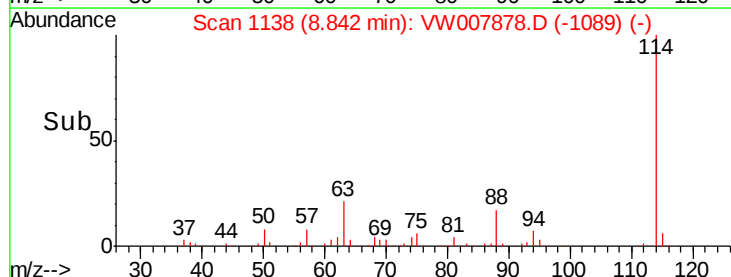
60000

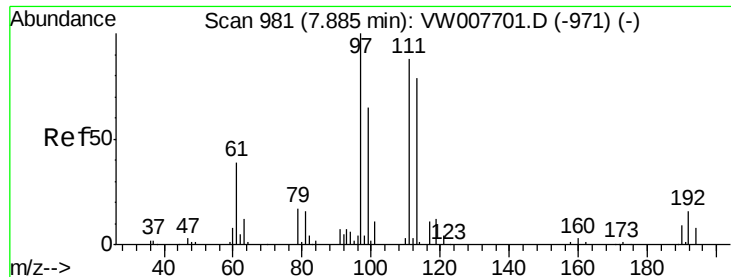
40000

20000

0

Time--> 8.75 8.80 8.85 8.90 8.95





#35

Dibromofluoromethane

Concen: 47.991 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW007878.D

Acq: 23 Dec 2018 08:18

Instrument :

MSVOA\_W

ClientSampleId :

P001-SS026-1824-01

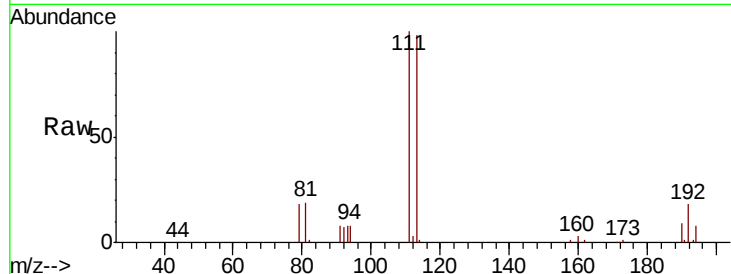
Tgt Ion:113 Resp: 41850

Ion Ratio Lower Upper

113 100

111 101.9 82.6 124.0

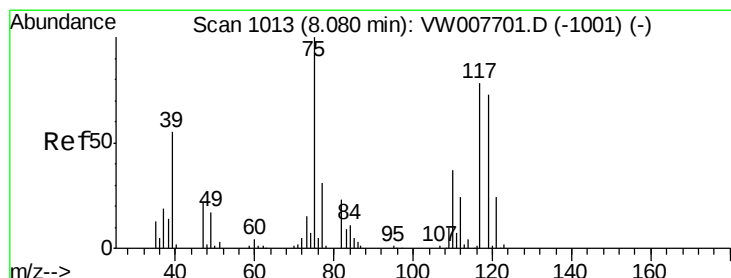
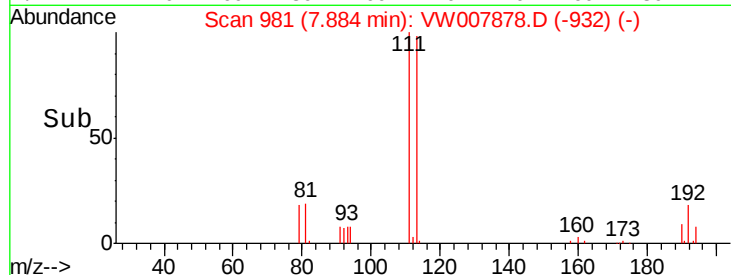
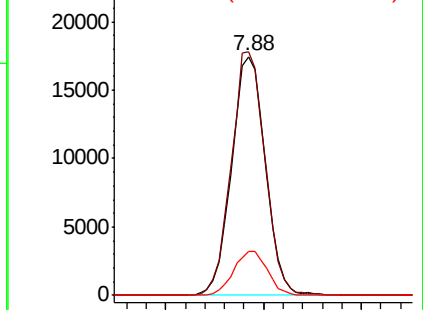
192 18.4 15.5 23.3



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.847 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.14 min

Lab File: VW007878.D

Acq: 23 Dec 2018 08:18

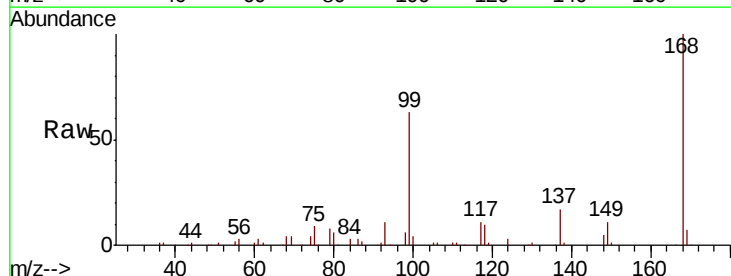
Tgt Ion: 75 Resp: 6688

Ion Ratio Lower Upper

75 100

110 10.2 18.6 55.8#

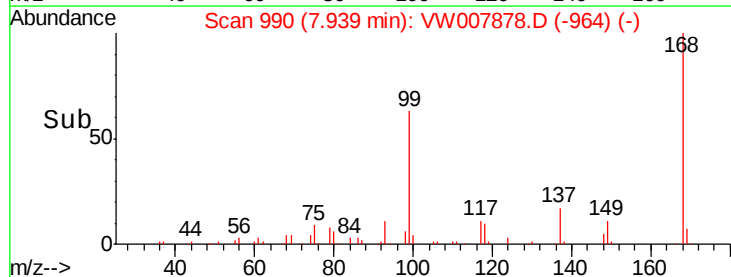
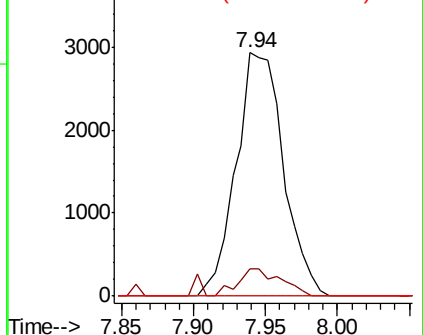
77 0.0 25.0 37.4#

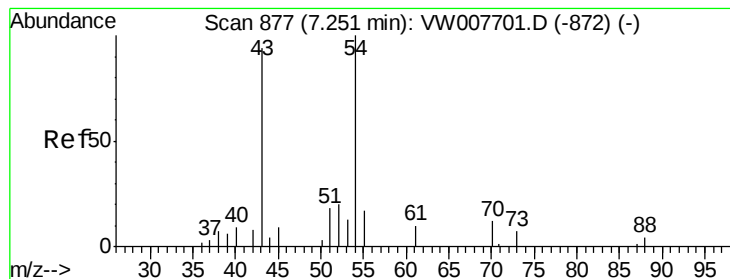


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW





#37

Ethyl Acetate

Concen: 1.474 ug/l

RT: 7.19 min Scan# 867

Delta R.T. -0.06 min

Lab File: VW007878.D

Acq: 23 Dec 2018 08:18

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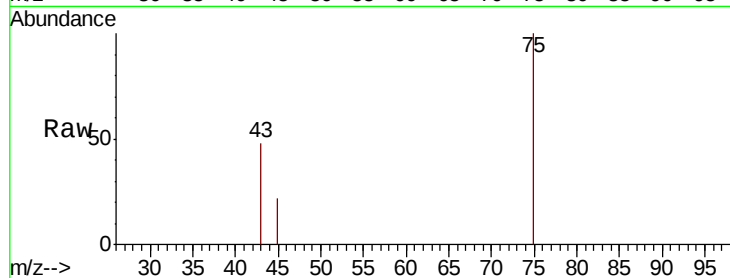
Tgt Ion: 43 Resp: 702

Ion Ratio Lower Upper

43 100

61 0.0 11.2 16.8#

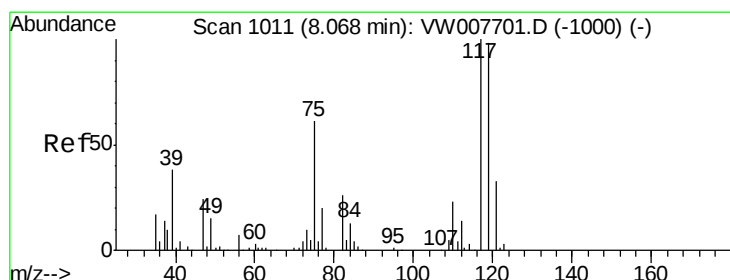
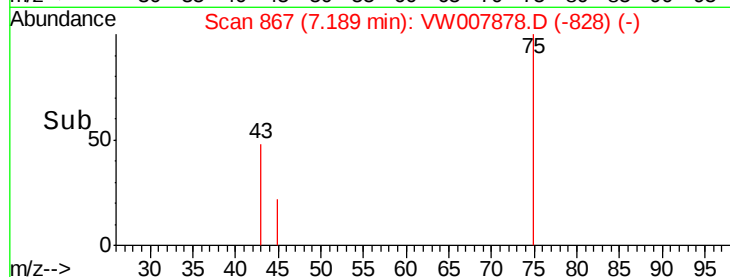
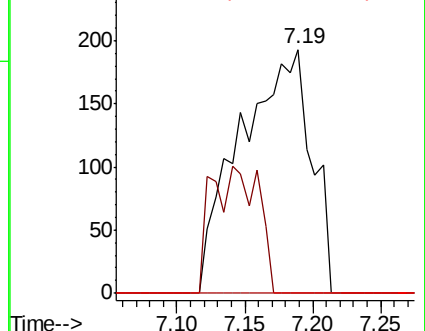
70 0.0 9.3 13.9#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 60.90 (60.60 to 61.60): VW

Ion 70.00 (69.70 to 70.70): VW



#38

Carbon Tetrachloride

Concen: 5.510 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.12 min

Lab File: VW007878.D

Acq: 23 Dec 2018 08:18

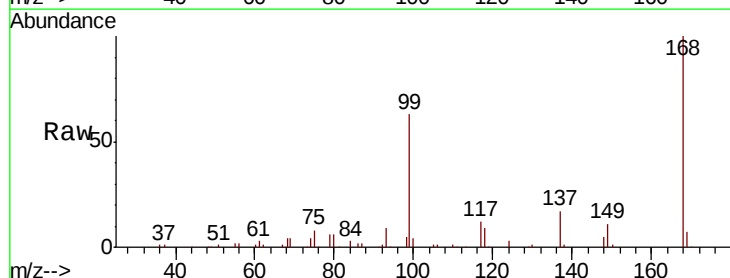
Tgt Ion: 117 Resp: 8953

Ion Ratio Lower Upper

117 100

119 3.5 78.2 117.2#

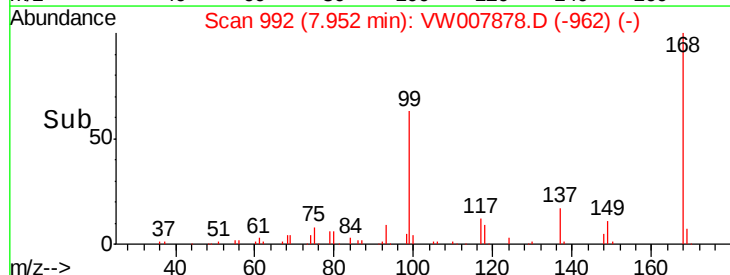
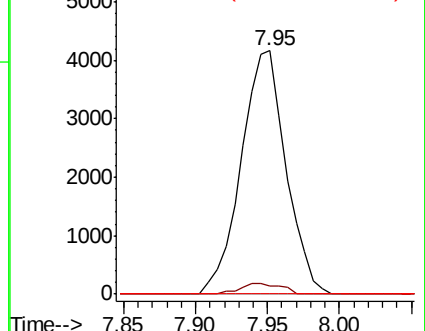
121 0.0 26.1 39.1#

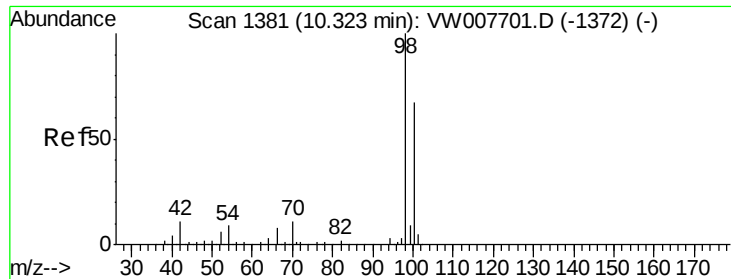


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 43.852 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

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Acq: 23 Dec 2018 08:18

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ClientSampleId :

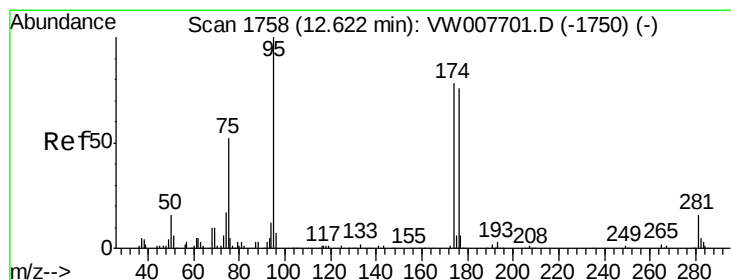
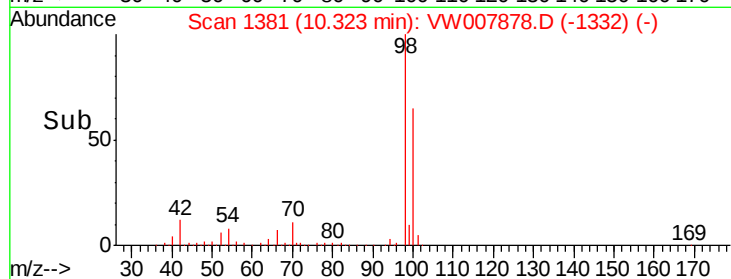
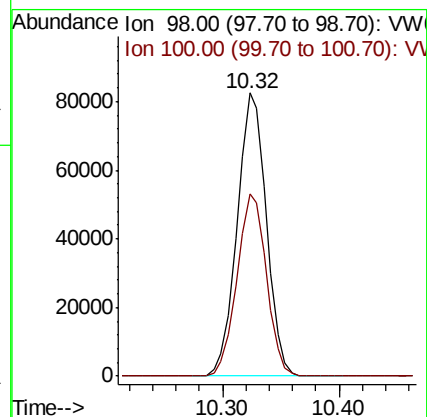
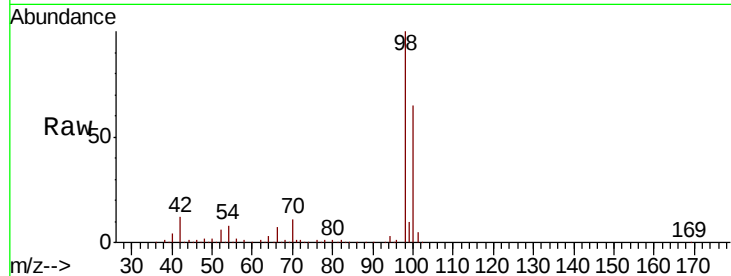
P001-SS026-1824-01

Tgt Ion: 98 Resp: 144164

Ion Ratio Lower Upper

98 100

100 65.0 52.2 78.2



#62

4-Bromofluorobenzene

Concen: 33.643 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW007878.D

Acq: 23 Dec 2018 08:18

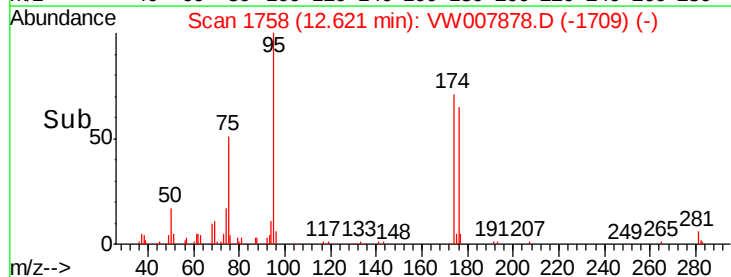
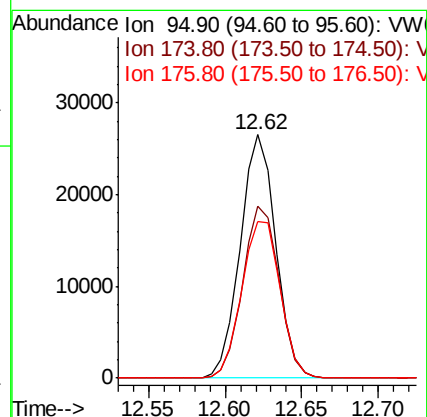
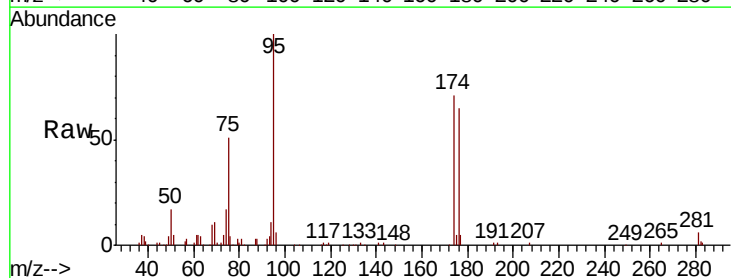
Tgt Ion: 95 Resp: 42727

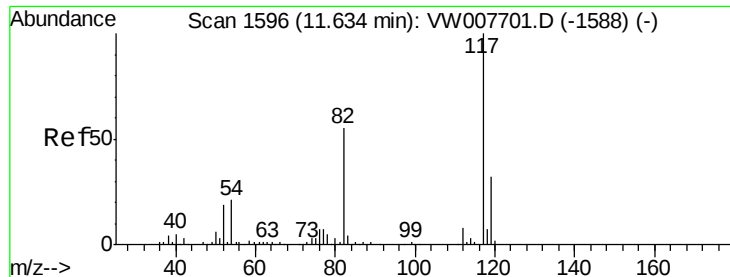
Ion Ratio Lower Upper

95 100

174 72.5 0.0 152.2

176 69.9 0.0 146.8

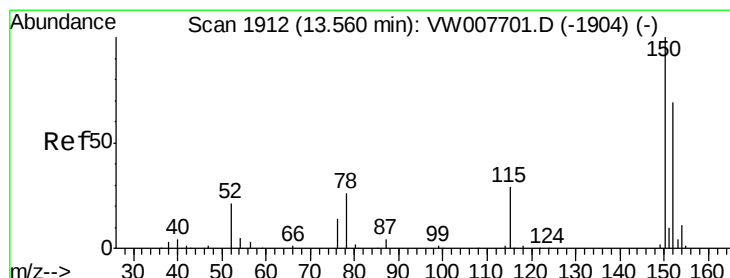
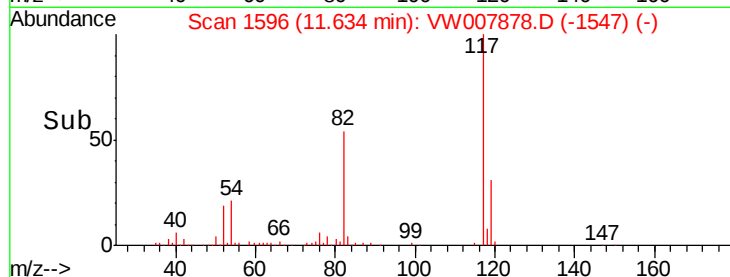
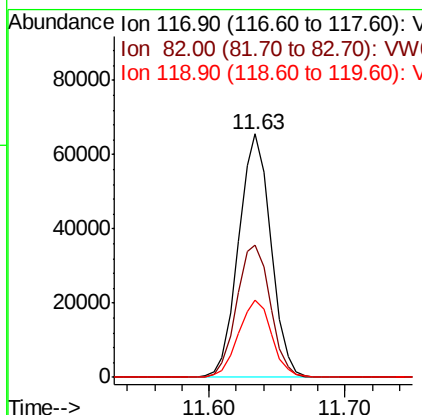
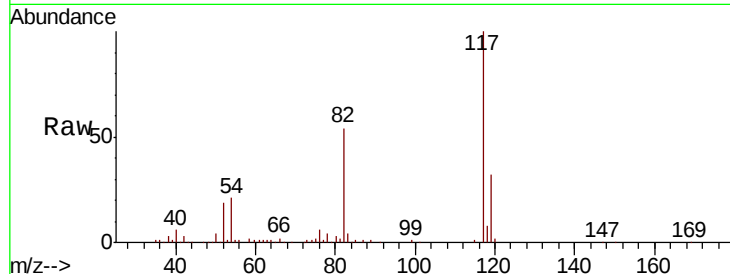




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. -0.00 min  
Lab File: VW007878.D  
Acq: 23 Dec 2018 08:18

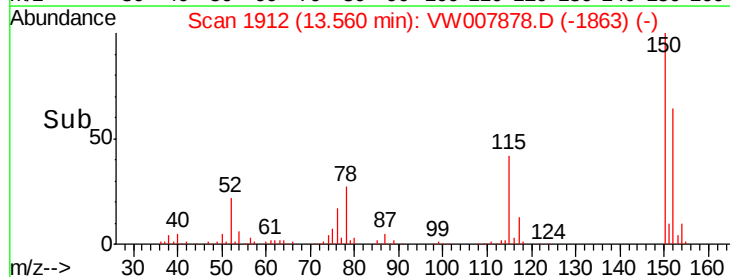
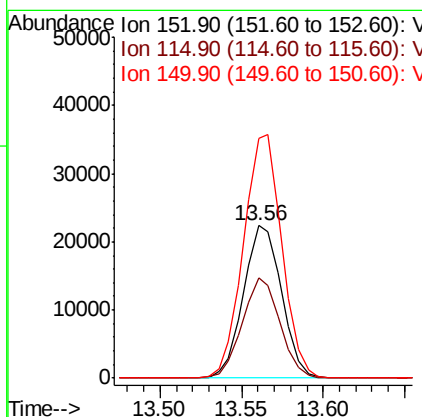
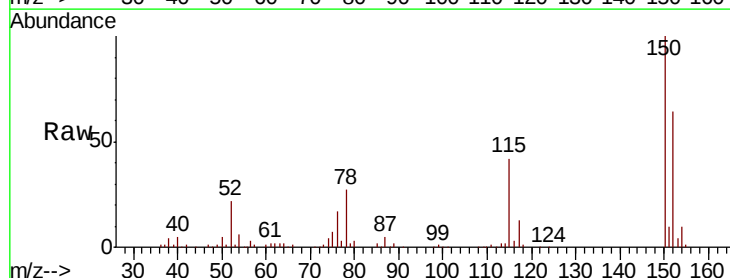
Instrument :  
MSVOA\_W  
ClientSampleId :  
P001-SS026-1824-01

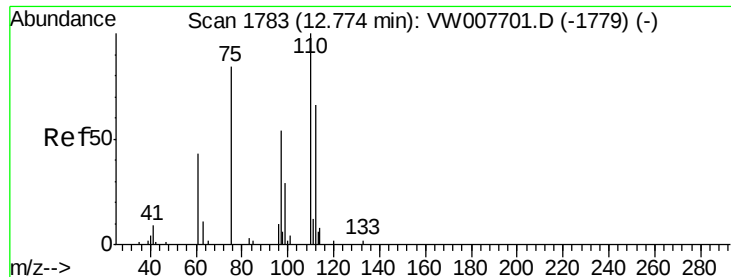
Tgt Ion:117 Resp: 108789  
Ion Ratio Lower Upper  
117 100  
82 54.2 44.3 66.5  
119 31.3 25.7 38.5



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. -0.00 min  
Lab File: VW007878.D  
Acq: 23 Dec 2018 08:18

Tgt Ion:152 Resp: 36347  
Ion Ratio Lower Upper  
152 100  
115 64.7 31.8 95.4  
150 161.0 0.0 350.8





#76

1,2,3-Trichloropropane

Concen: 75.717 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW007878.D

Acq: 23 Dec 2018 08:18

Instrument :

MSVOA\_W

ClientSampleId :

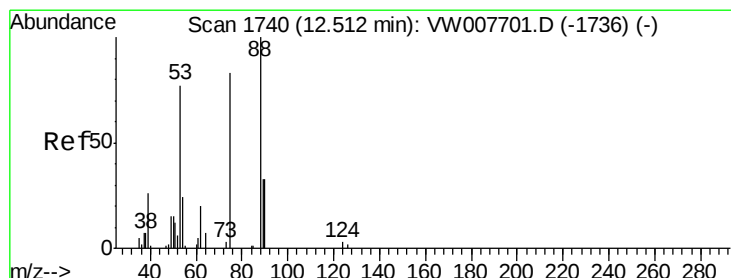
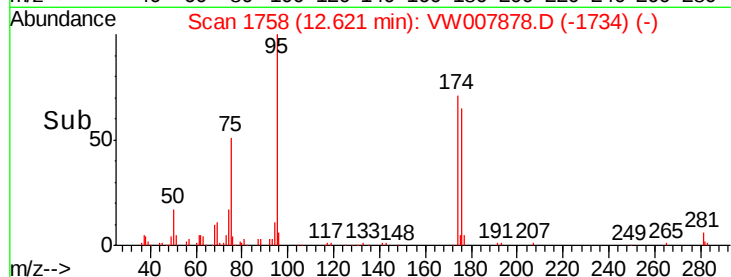
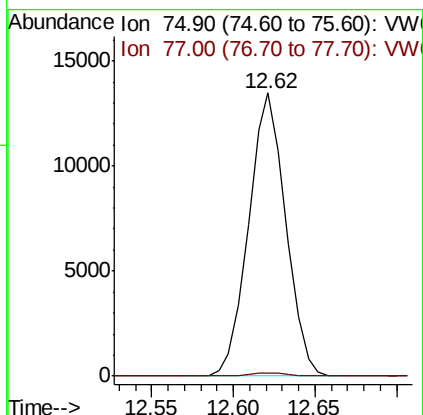
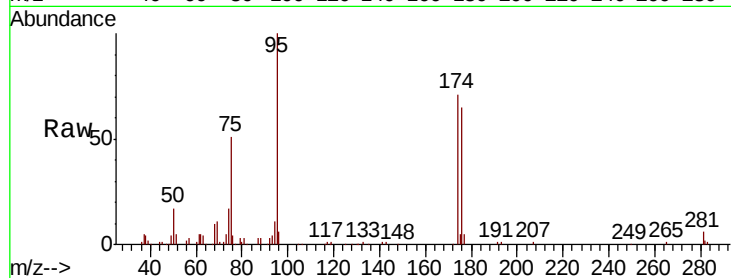
P001-SS026-1824-01

Tgt Ion: 75 Resp: 21271

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 158.935 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW007878.D

Acq: 23 Dec 2018 08:18

Tgt Ion: 75 Resp: 21271

Ion Ratio Lower Upper

75 100

53 0.0 80.2 120.2#

89 0.0 39.2 58.8#

