

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW091718\  
 Data File : VW005428.D  
 Acq On : 17 Sep 2018 12:57  
 Operator : SY/AP  
 Sample : J4866-02RE  
 Misc : 5.15G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 DPT-SB-E1-180911

Quant Time: Sep 18 01:02:11 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W091618S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Sep 15 02:32:34 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.96  | 168  | 224960   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 347642   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 326252   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 168383   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| System Monitoring Compounds |        |     |          |       |        |      |
| 33) 1,2-Dichloroethane-d4   | 8.31   | 65  | 109573   | 46.92 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 93.84% |      |
| 35) Dibromofluoromethane    | 7.89   | 113 | 92325    | 47.37 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 94.74% |      |
| 50) Toluene-d8              | 10.33  | 98  | 402063   | 45.04 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 90.08% |      |
| 62) 4-Bromofluorobenzene    | 12.62  | 95  | 152995   | 46.74 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 93.48% |      |

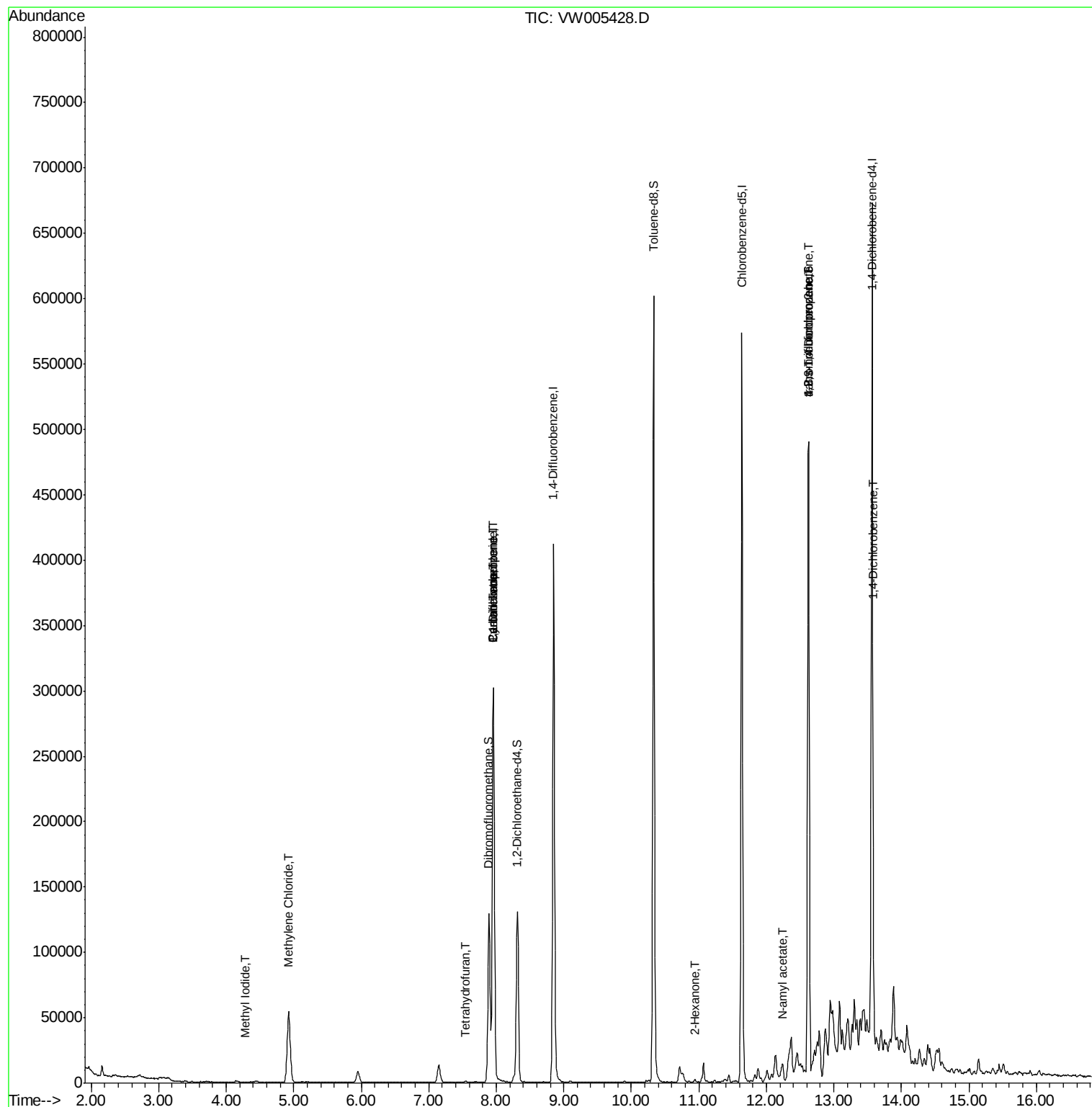
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane     | 2.00  | 85   | 223      | Below Cal |        | 97     |
| 5) Bromomethane                | 2.78  | 94   | 294      | Below Cal | #      | 41     |
| 10) Methyl Iodide              | 4.29  | 142  | 244      | 4.143     | ug/l # | 38     |
| 11) Tert butyl alcohol         | 5.17  | 59   | 60       | Below Cal | #      | 71     |
| 13) Acrolein                   | 3.87  | 56   | 24       | Below Cal | #      | 12     |
| 16) Acetone                    | 4.14  | 43   | 1690     | Below Cal | #      | 88     |
| 20) Methylene Chloride         | 4.93  | 84   | 41858    | 13.927    | ug/l   | 97     |
| 29) Tetrahydrofuran            | 7.55  | 42   | 691      | 1.931     | ug/l # | 80     |
| 31) Cyclohexane                | 7.96  | 56   | 5277     | 1.416     | ug/l # | 3      |
| 36) 1,1-Dichloropropene        | 7.96  | 75   | 17562    | 5.338     | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 7.96  | 117  | 22218    | 6.481     | ug/l # | 15     |
| 59) 2-Hexanone                 | 10.94 | 43   | 989      | 1.080     | ug/l # | 27     |
| 74) N-amyl acetate             | 12.24 | 43   | 3956     | 1.589     | ug/l # | 60     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 78974    | 57.025    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 78974    | 147.925   | ug/l # | 9      |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 8511     | 1.526     | ug/l # | 54     |

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

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Instrument :  
MSVOA\_W  
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DPT-SB-E1-180911

Quant Time: Sep 18 01:02:11 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W091618S.M  
Quant Title : SW846 8260  
QLast Update : Sat Sep 15 02:32:34 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.96 min Scan# 993

Delta R.T. -0.00 min

Lab File: VW005428.D

Acq: 17 Sep 2018 12:57

Instrument :

MSVOA\_W

ClientSampleId :

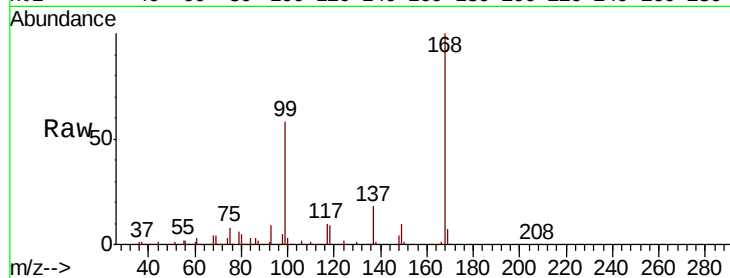
DPT-SB-E1-180911

Tgt Ion:168 Resp: 224960

Ion Ratio Lower Upper

168 100

99 57.7 45.0 67.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.96

100000

80000

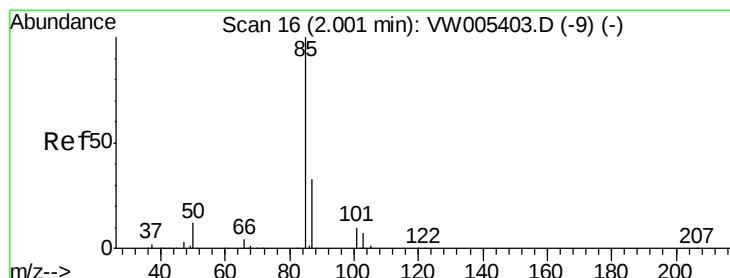
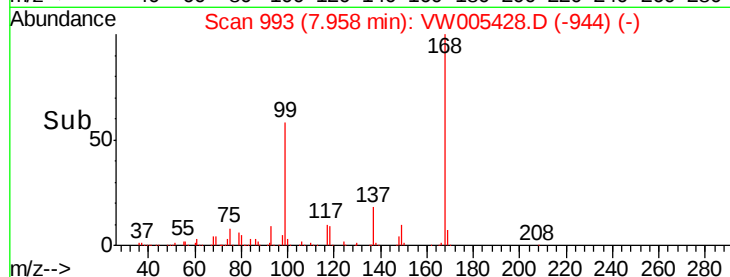
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.00 min Scan# 15

Delta R.T. -0.01 min

Lab File: VW005428.D

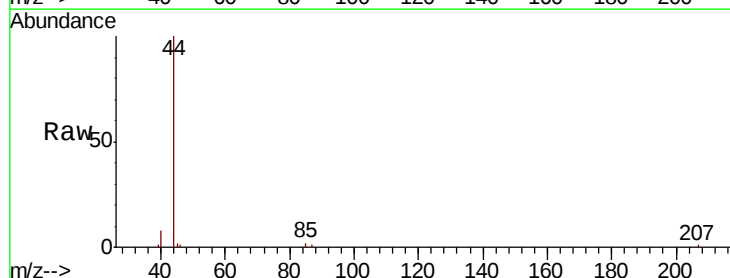
Acq: 17 Sep 2018 12:57

Tgt Ion: 85 Resp: 223

Ion Ratio Lower Upper

85 100

87 34.2 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.00

200

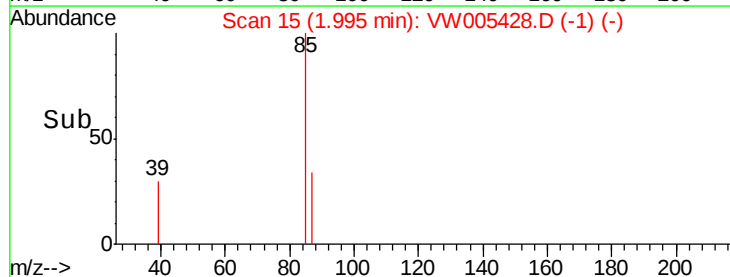
150

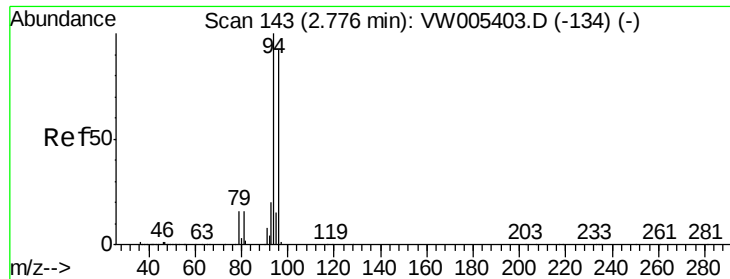
100

50

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.78 min Scan# 143

Delta R.T. 0.00 min

Lab File: VW005428.D

Acq: 17 Sep 2018 12:57

Instrument :

MSVOA\_W

ClientSampleId :

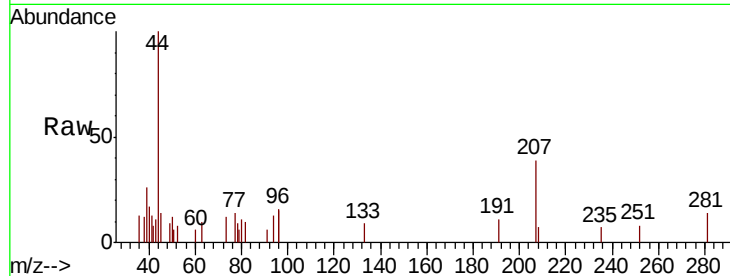
DPT-SB-E1-180911

Tgt Ion: 94 Resp: 294

Ion Ratio Lower Upper

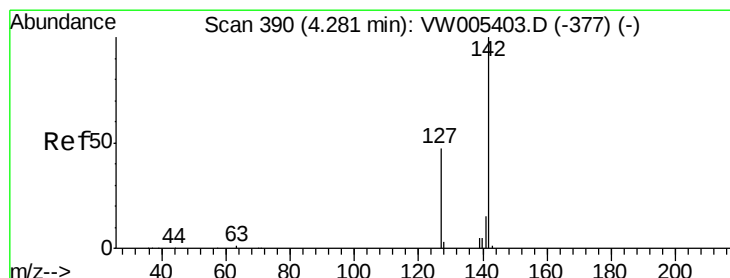
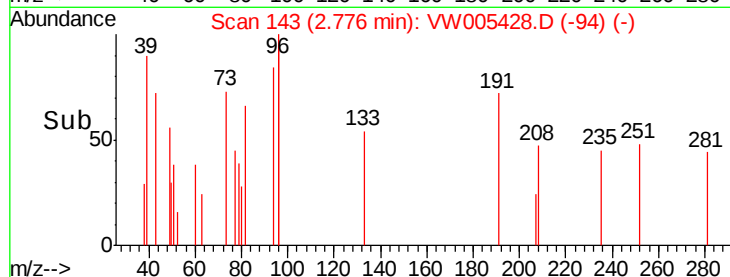
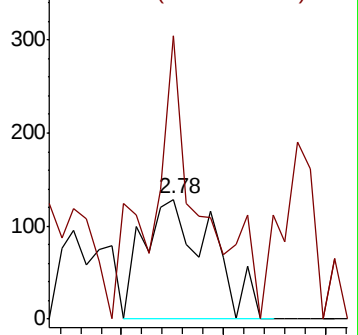
94 100

96 148.8 73.7 110.5#



Abundance Ion 93.90 (93.60 to 94.60): VW

Ion 95.90 (95.60 to 96.60): VW



#10

Methyl Iodide

Concen: 4.143 ug/l

RT: 4.29 min Scan# 391

Delta R.T. 0.01 min

Lab File: VW005428.D

Acq: 17 Sep 2018 12:57

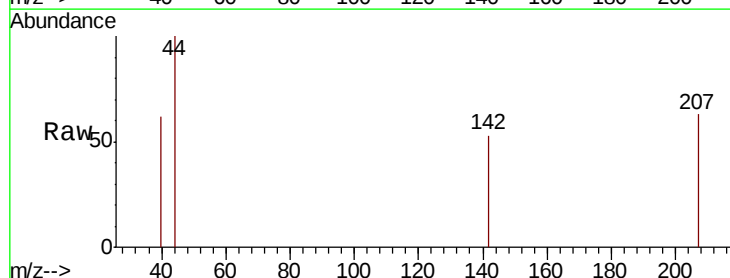
Tgt Ion: 142 Resp: 244

Ion Ratio Lower Upper

142 100

127 0.0 37.5 56.3#

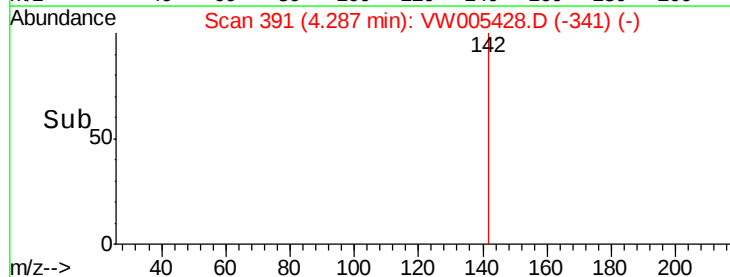
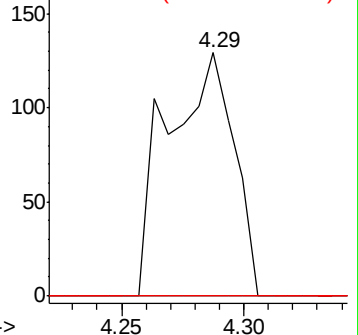
141 0.0 12.4 18.6#

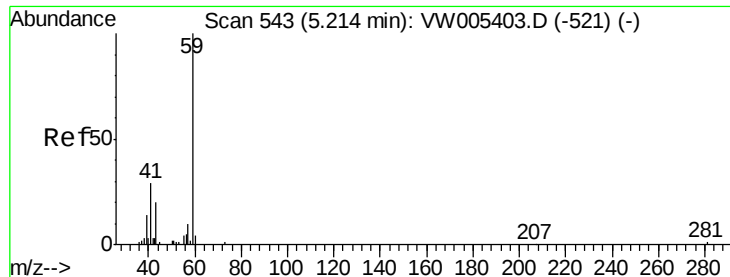


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

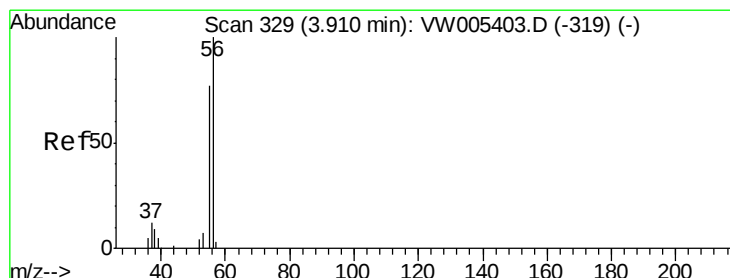
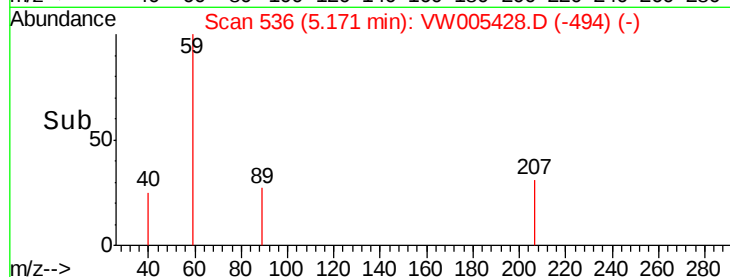
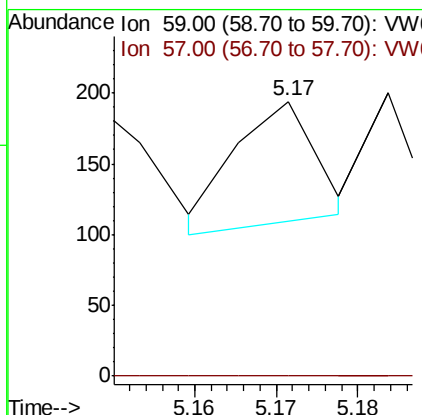
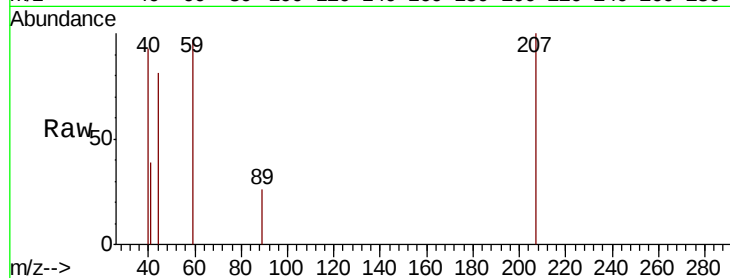




#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 5.17 min Scan# 536  
Delta R.T. -0.04 min  
Lab File: VW005428.D  
Acq: 17 Sep 2018 12:57

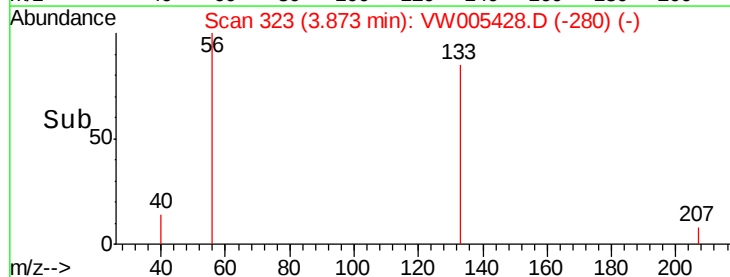
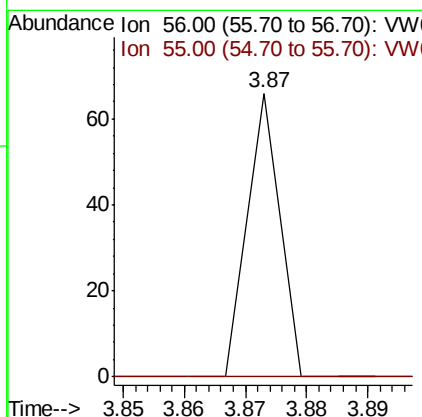
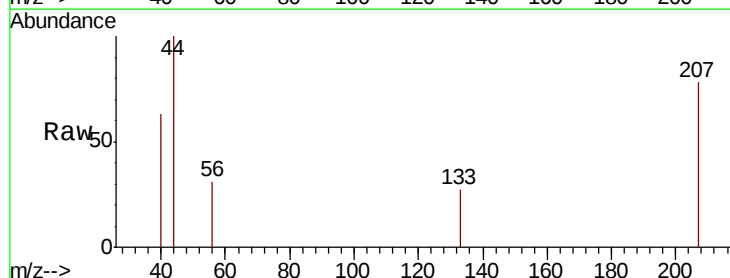
Instrument :  
MSVOA\_W  
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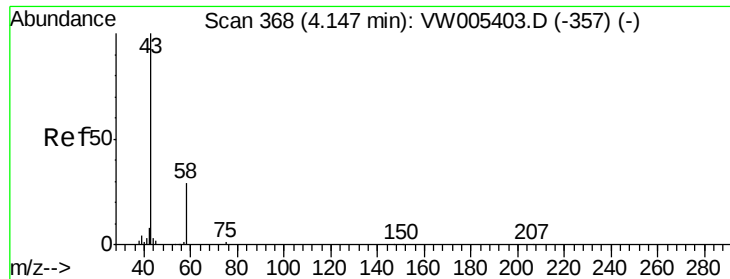
Tgt Ion: 59 Resp: 60  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.6 13.0#



#13  
Acrolein  
Concen: Below Cal  
RT: 3.87 min Scan# 323  
Delta R.T. -0.04 min  
Lab File: VW005428.D  
Acq: 17 Sep 2018 12:57

Tgt Ion: 56 Resp: 24  
Ion Ratio Lower Upper  
56 100  
55 0.0 59.8 89.8#





#16

Acetone

Concen: Below Cal

RT: 4.14 min Scan# 367

Delta R.T. -0.01 min

Lab File: VW005428.D

Acq: 17 Sep 2018 12:57

Instrument :

MSVOA\_W

ClientSampleId :

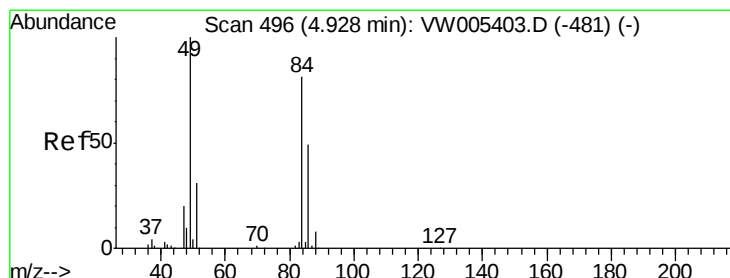
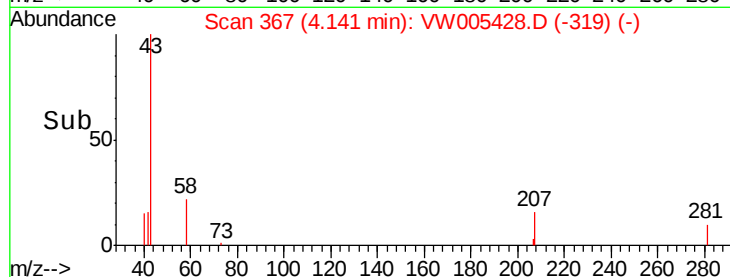
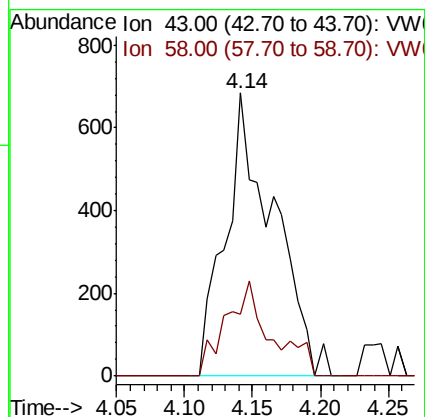
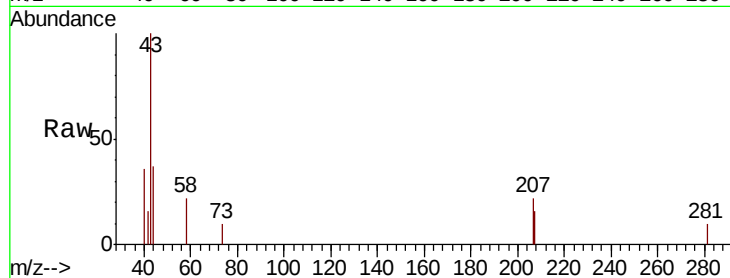
DPT-SB-E1-180911

Tgt Ion: 43 Resp: 1690

Ion Ratio Lower Upper

43 100

58 21.9 22.8 34.2#



#20

Methylene Chloride

Concen: 13.927 ug/l

RT: 4.93 min Scan# 496

Delta R.T. 0.00 min

Lab File: VW005428.D

Acq: 17 Sep 2018 12:57

Tgt Ion: 84 Resp: 41858

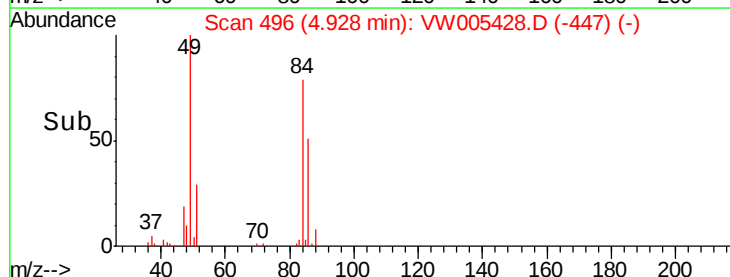
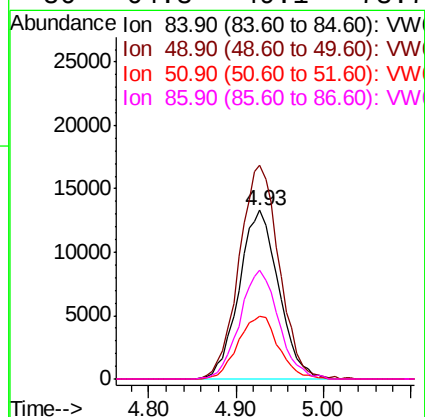
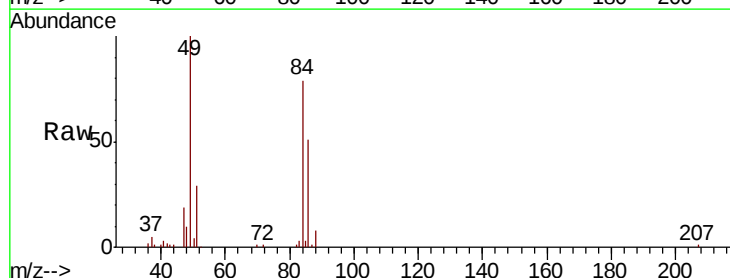
Ion Ratio Lower Upper

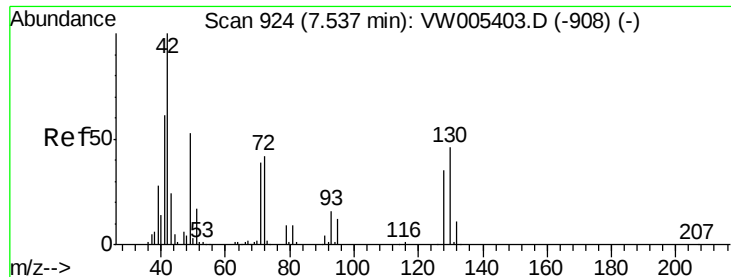
84 100

49 126.8 99.3 148.9

51 37.0 31.1 46.7

86 64.3 49.1 73.7

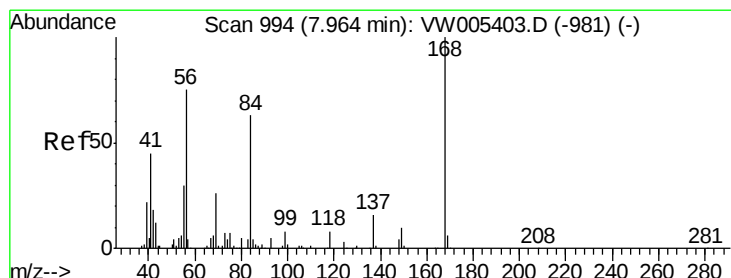
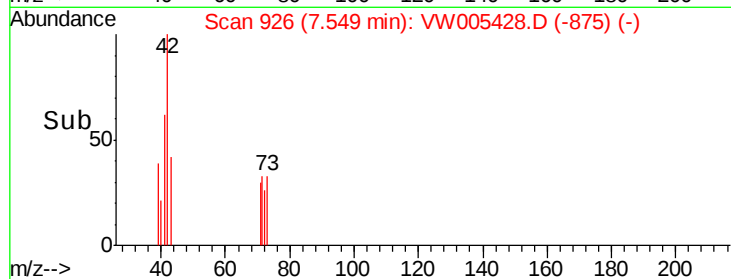
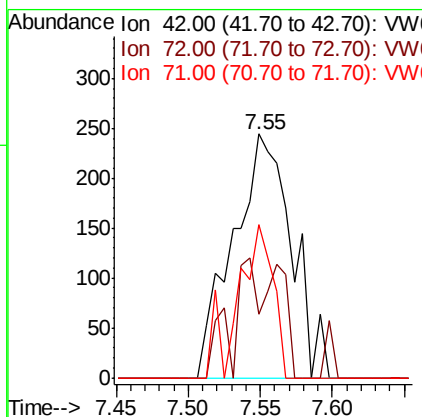
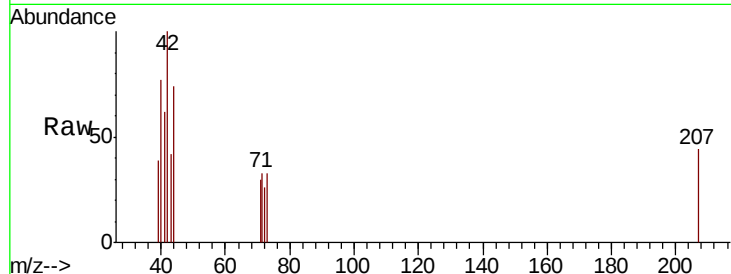




#29  
Tetrahydrofuran  
Concen: 1.931 ug/l  
RT: 7.55 min Scan# 926  
Delta R.T. 0.01 min  
Lab File: VW005428.D  
Acq: 17 Sep 2018 12:57

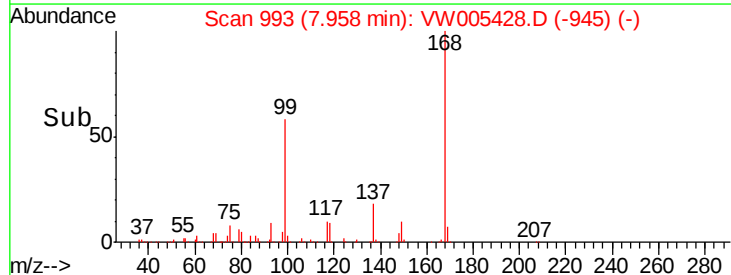
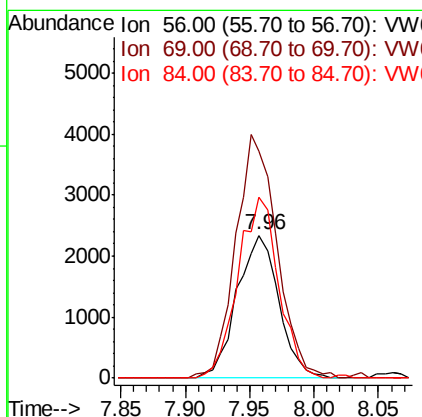
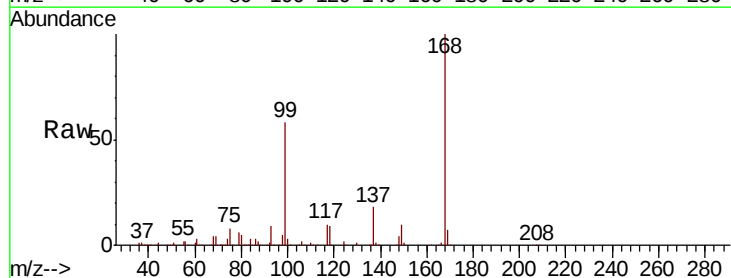
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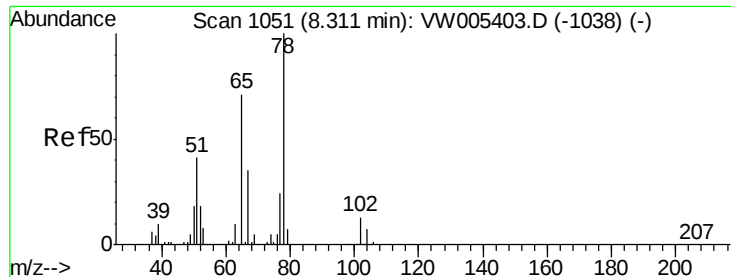
Tgt Ion: 42 Resp: 691  
Ion Ratio Lower Upper  
42 100  
72 22.4 33.2 49.8#  
71 32.9 31.0 46.6



#31  
Cyclohexane  
Concen: 1.416 ug/l  
RT: 7.96 min Scan# 993  
Delta R.T. -0.01 min  
Lab File: VW005428.D  
Acq: 17 Sep 2018 12:57

Tgt Ion: 56 Resp: 5277  
Ion Ratio Lower Upper  
56 100  
69 159.5 27.2 40.8#  
84 126.4 66.7 100.1#

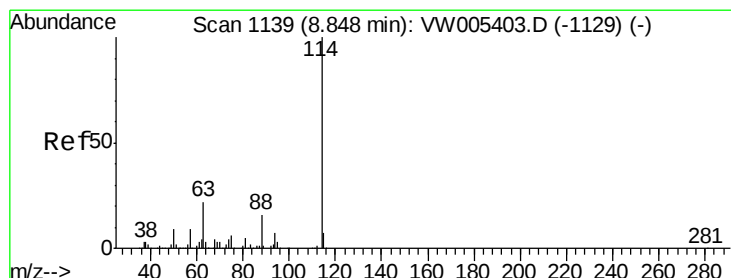
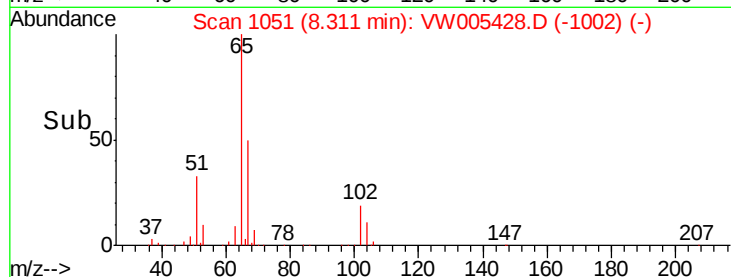
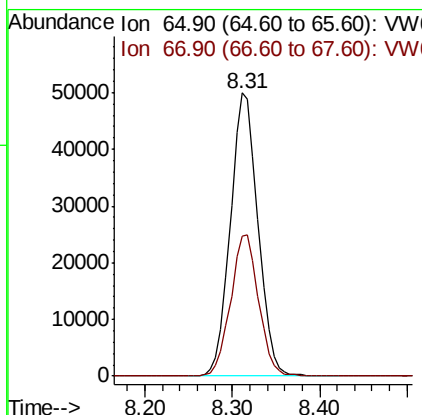
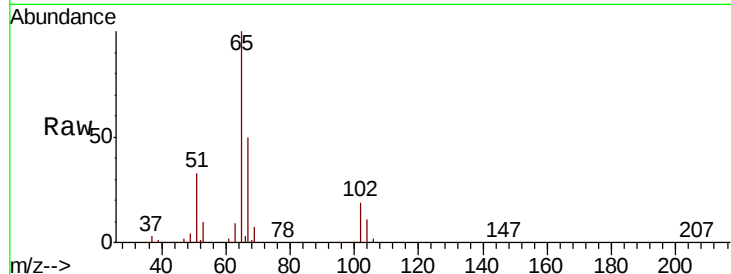




#33  
 1,2-Dichloroethane-d4  
 Concen: 46.924 ug/l  
 RT: 8.31 min Scan# 1051  
 Delta R.T. -0.00 min  
 Lab File: VW005428.D  
 Acq: 17 Sep 2018 12:57

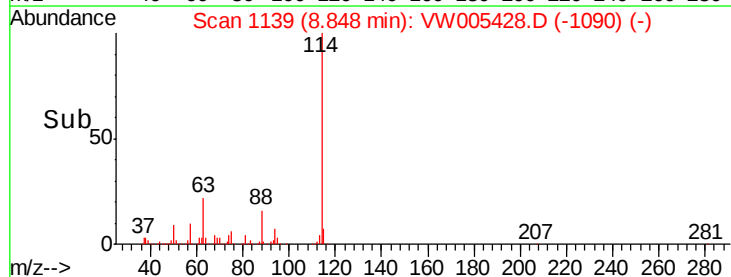
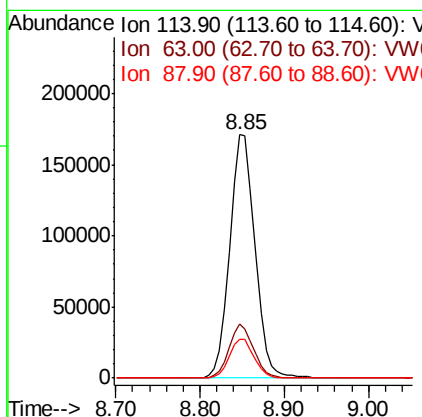
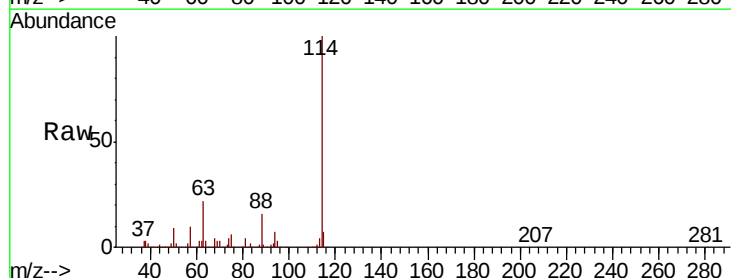
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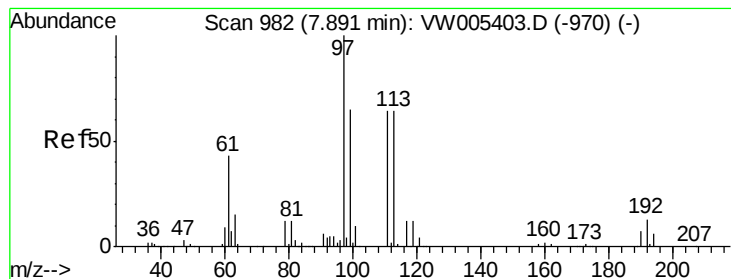
Tgt Ion: 65 Resp: 109573  
 Ion Ratio Lower Upper  
 65 100  
 67 50.6 0.0 100.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.85 min Scan# 1139  
 Delta R.T. -0.00 min  
 Lab File: VW005428.D  
 Acq: 17 Sep 2018 12:57

Tgt Ion: 114 Resp: 347642  
 Ion Ratio Lower Upper  
 114 100  
 63 22.0 0.0 43.4  
 88 16.0 0.0 31.8





#35

Dibromofluoromethane

Concen: 47.366 ug/l

RT: 7.89 min Scan# 982

Delta R.T. -0.00 min

Lab File: VW005428.D

Acq: 17 Sep 2018 12:57

Instrument :

MSVOA\_W

ClientSampleId :

DPT-SB-E1-180911

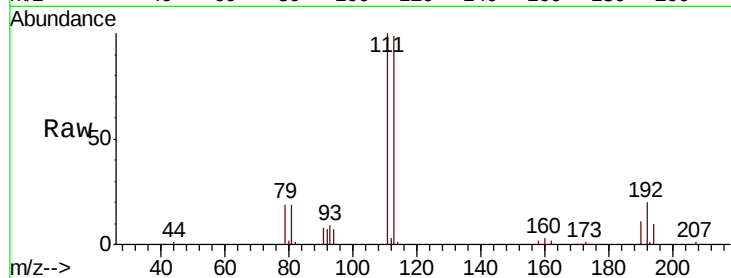
Tgt Ion:113 Resp: 92325

Ion Ratio Lower Upper

113 100

111 103.5 82.3 123.5

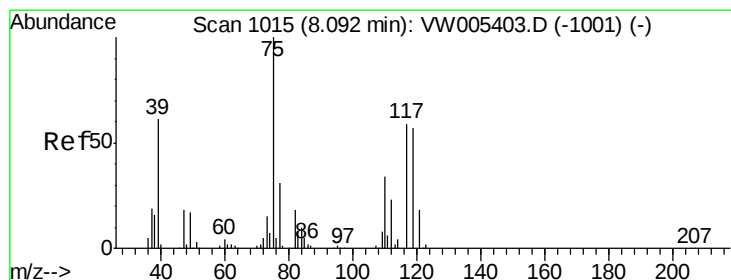
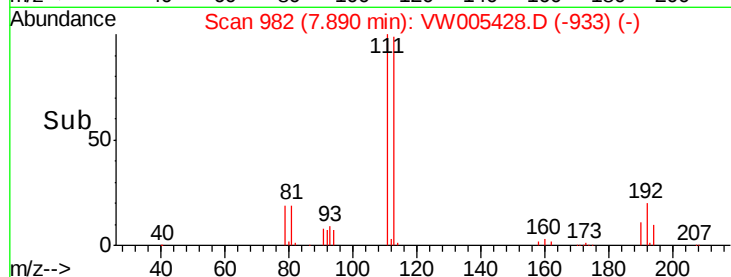
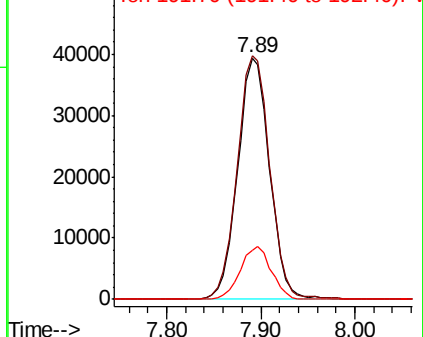
192 21.3 16.5 24.7



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: 5.338 ug/l

RT: 7.96 min Scan# 993

Delta R.T. -0.13 min

Lab File: VW005428.D

Acq: 17 Sep 2018 12:57

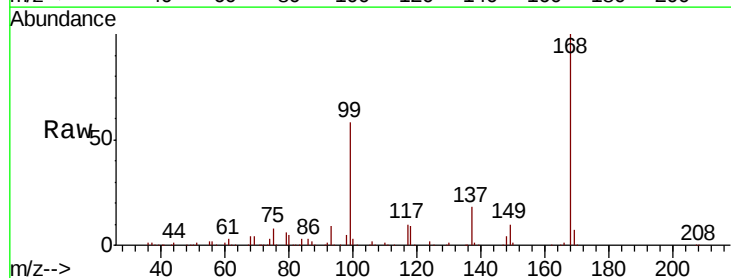
Tgt Ion: 75 Resp: 17562

Ion Ratio Lower Upper

75 100

110 9.2 16.8 50.4#

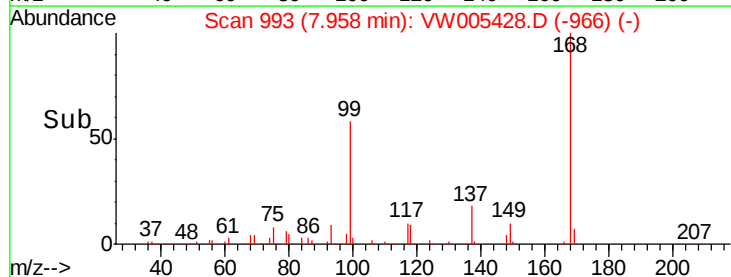
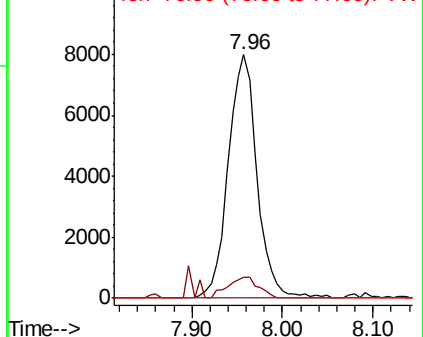
77 0.0 24.2 36.4#

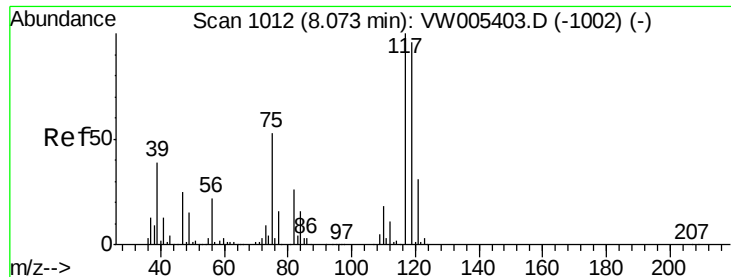


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW

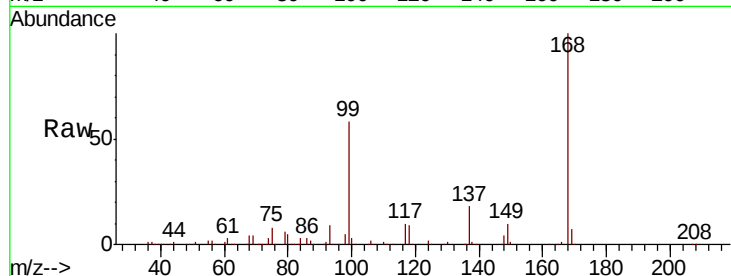




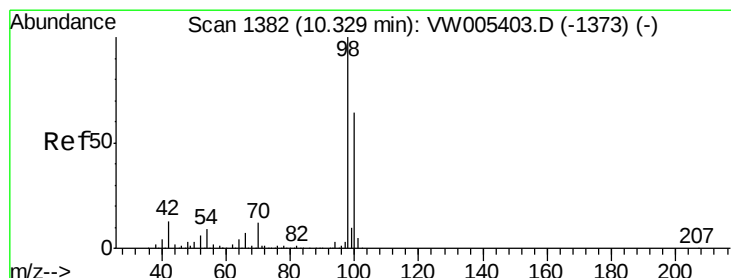
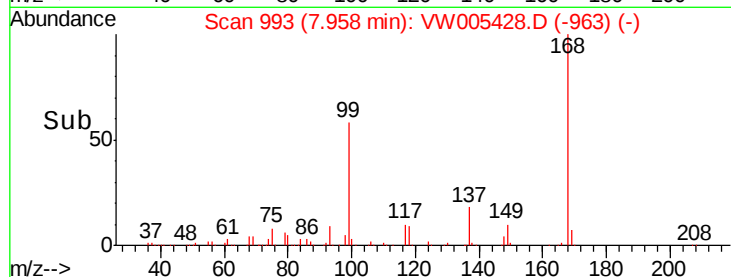
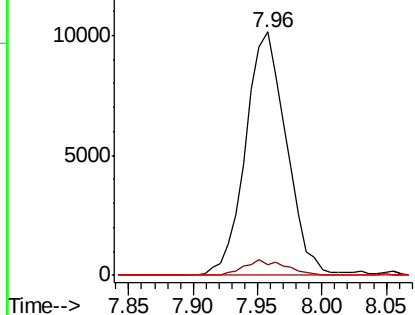
#38  
Carbon Tetrachloride  
Concen: 6.481 ug/l  
RT: 7.96 min Scan# 993  
Delta R.T. -0.12 min  
Lab File: VW005428.D  
Acq: 17 Sep 2018 12:57

Instrument :  
MSVOA\_W  
ClientSampleId :  
DPT-SB-E1-180911

Tgt Ion:117 Resp: 22218  
Ion Ratio Lower Upper  
117 100  
119 4.2 76.8 115.2#  
121 0.0 24.7 37.1#

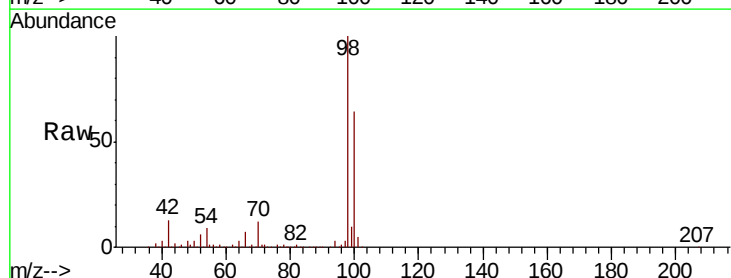


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

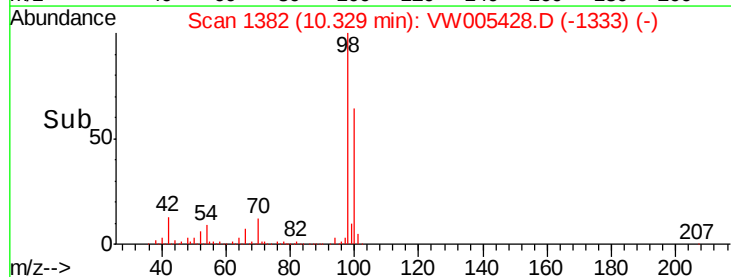
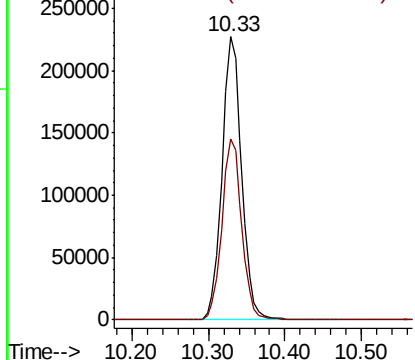


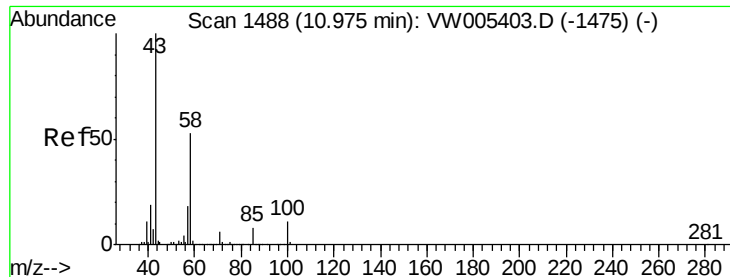
#50  
Toluene-d8  
Concen: 45.042 ug/l  
RT: 10.33 min Scan# 1382  
Delta R.T. -0.00 min  
Lab File: VW005428.D  
Acq: 17 Sep 2018 12:57

Tgt Ion: 98 Resp: 402063  
Ion Ratio Lower Upper  
98 100  
100 64.4 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VW  
Ion 100.00 (99.70 to 100.70): V

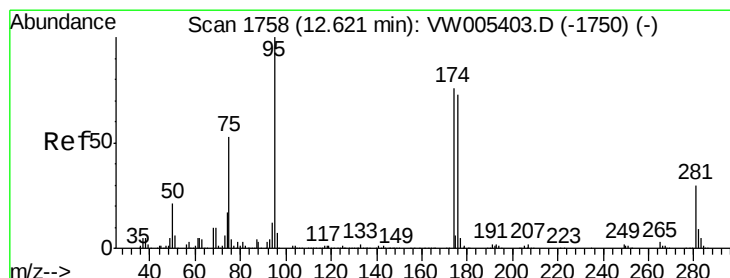
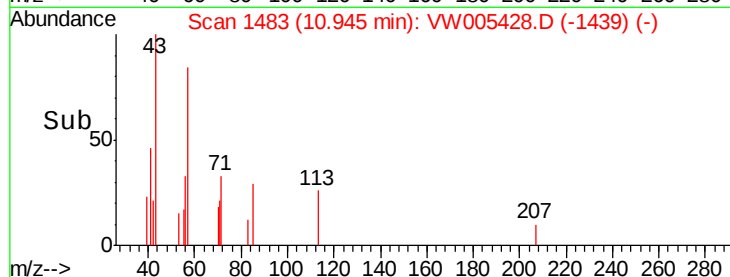
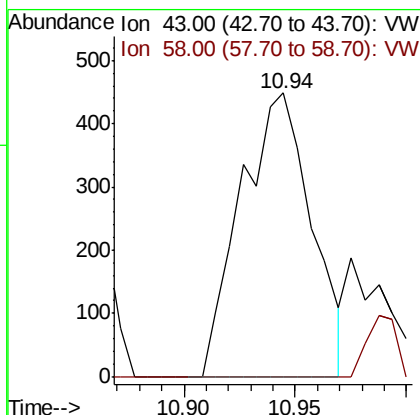
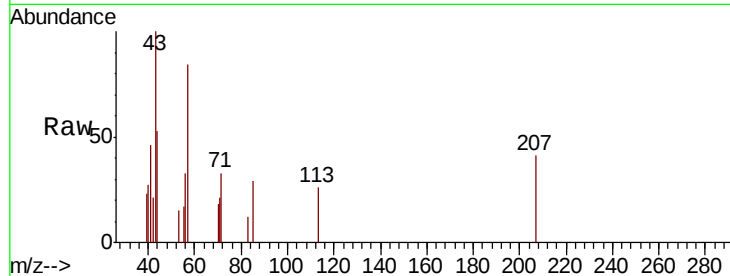




#59  
2-Hexanone  
Concen: 1.080 ug/l  
RT: 10.94 min Scan# 1483  
Delta R.T. -0.03 min  
Lab File: VW005428.D  
Acq: 17 Sep 2018 12:57

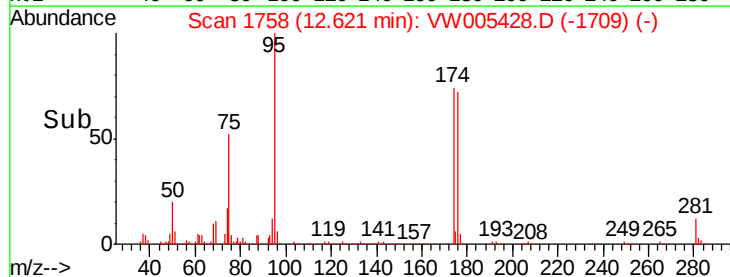
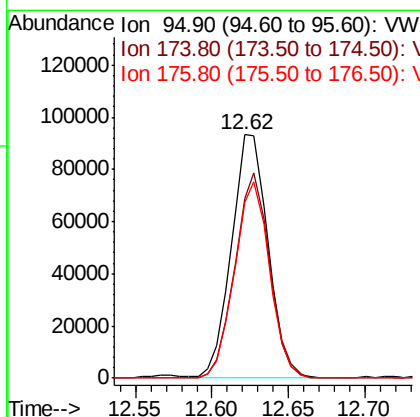
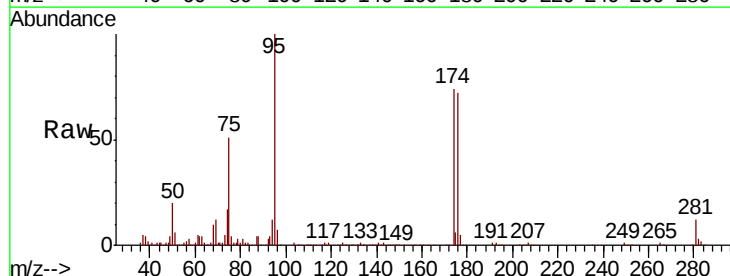
Instrument :  
MSVOA\_W  
ClientSampleId :  
DPT-SB-E1-180911

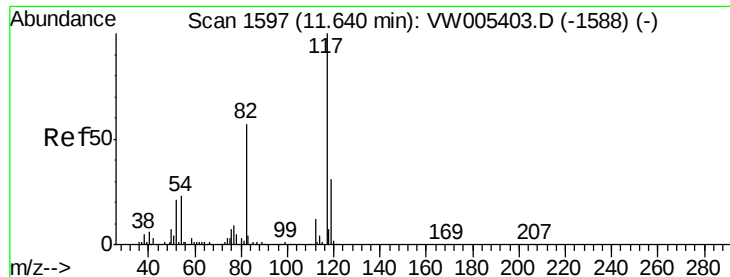
Tgt Ion: 43 Resp: 989  
Ion Ratio Lower Upper  
43 100  
58 0.0 25.5 76.5#



#62  
4-Bromofluorobenzene  
Concen: 46.744 ug/l  
RT: 12.62 min Scan# 1758  
Delta R.T. -0.00 min  
Lab File: VW005428.D  
Acq: 17 Sep 2018 12:57

Tgt Ion: 95 Resp: 152995  
Ion Ratio Lower Upper  
95 100  
174 81.4 0.0 161.2  
176 78.0 0.0 156.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.64 min Scan# 1597

Delta R.T. -0.00 min

Lab File: VW005428.D

Acq: 17 Sep 2018 12:57

Instrument :

MSVOA\_W

ClientSampleId :

DPT-SB-E1-180911

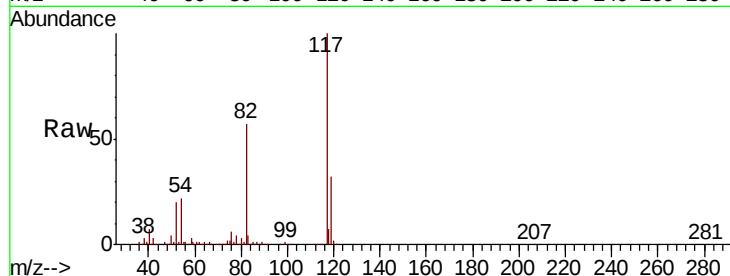
Tgt Ion:117 Resp: 326252

Ion Ratio Lower Upper

117 100

82 57.1 45.9 68.9

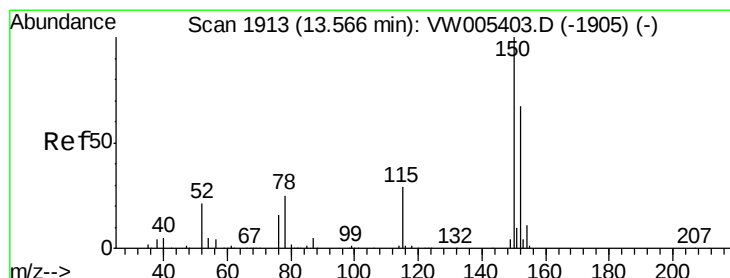
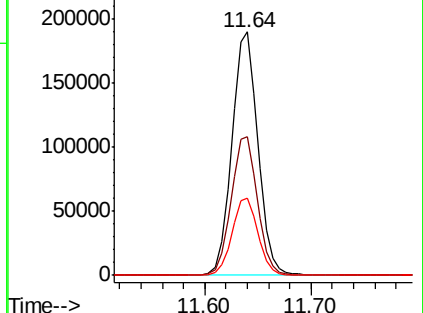
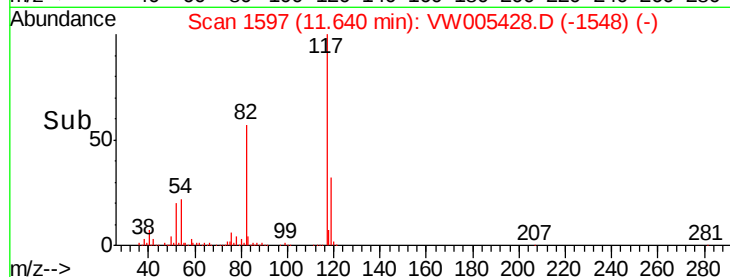
119 31.5 24.8 37.2



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: 13.57 min Scan# 1913

Delta R.T. -0.00 min

Lab File: VW005428.D

Acq: 17 Sep 2018 12:57

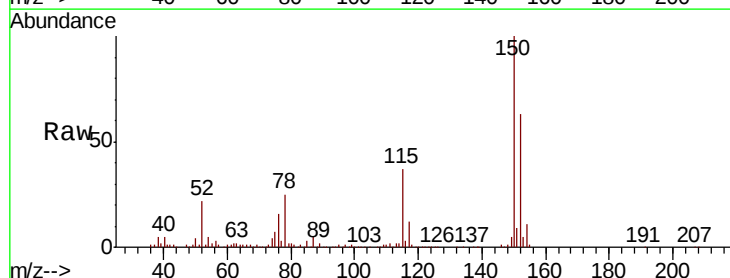
Tgt Ion:152 Resp: 168383

Ion Ratio Lower Upper

152 100

115 58.6 29.5 88.5

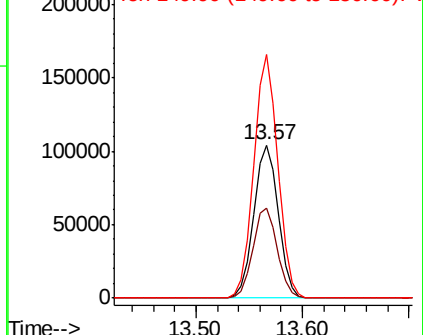
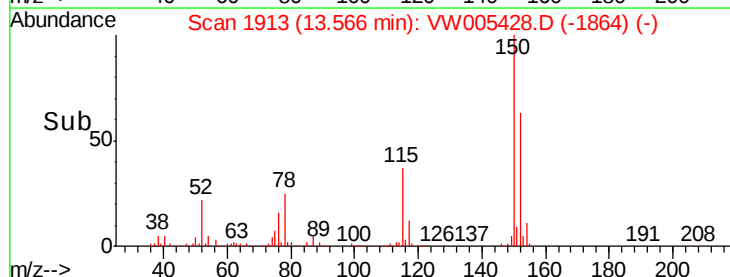
150 155.9 0.0 345.6

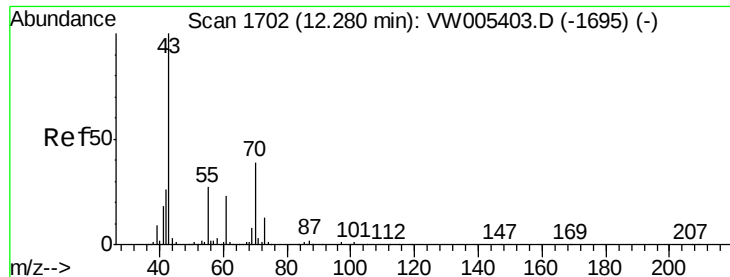


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-ethyl acetate

Concen: 1.589 ug/l

RT: 12.24 min Scan# 1696

Delta R.T. -0.04 min

Lab File: VW005428.D

Acq: 17 Sep 2018 12:57

Instrument :

MSVOA\_W

ClientSampleId :

DPT-SB-E1-180911

Tgt Ion: 43 Resp: 3956

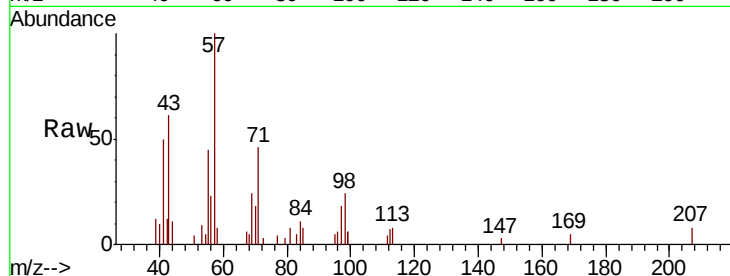
Ion Ratio Lower Upper

43 100

70 33.0 31.9 47.9

55 66.2 21.4 32.0#

61 0.0 18.3 27.5#

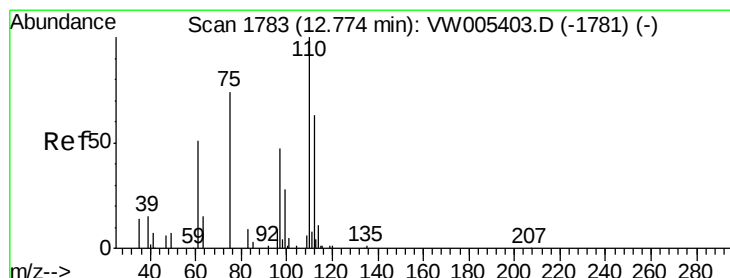
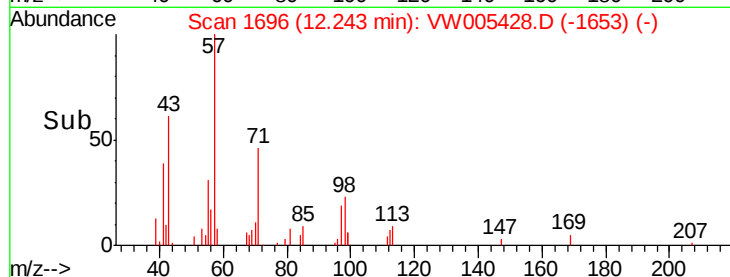
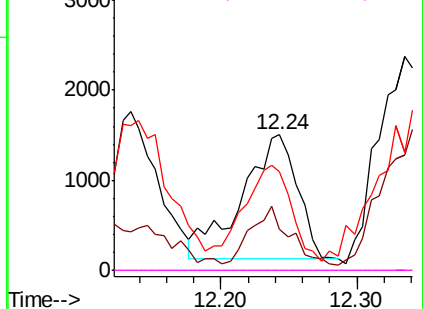


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW



#76

1,2,3-Trichloropropane

Concen: 57.025 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW005428.D

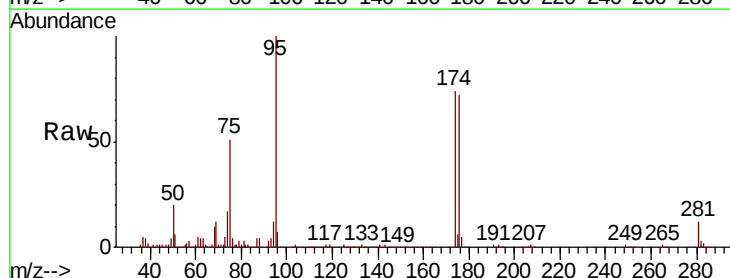
Acq: 17 Sep 2018 12:57

Tgt Ion: 75 Resp: 78974

Ion Ratio Lower Upper

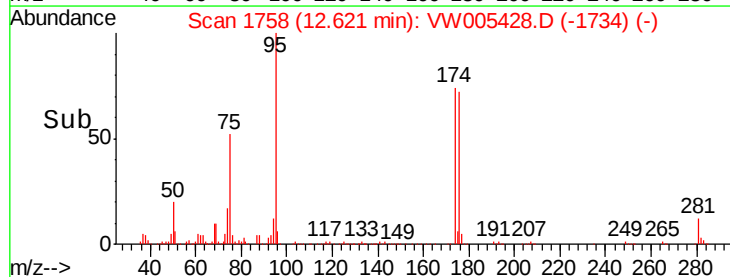
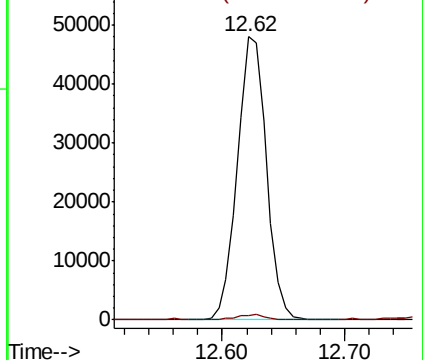
75 100

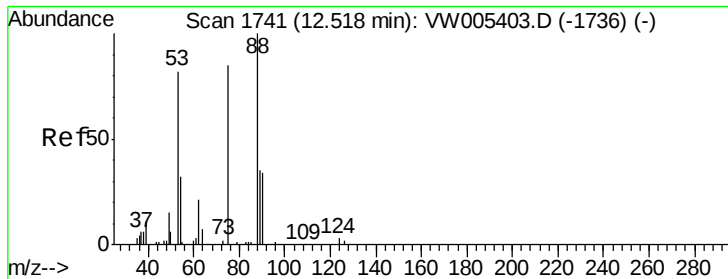
77 2.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

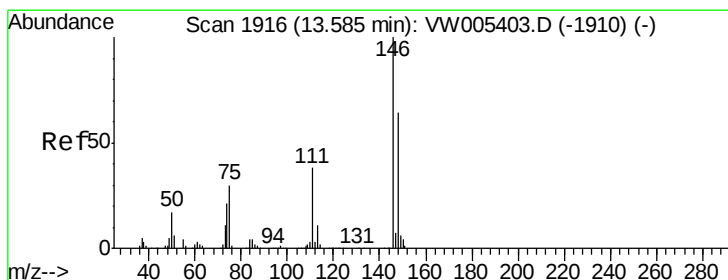
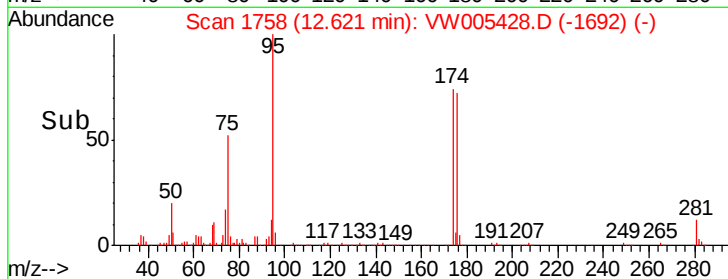
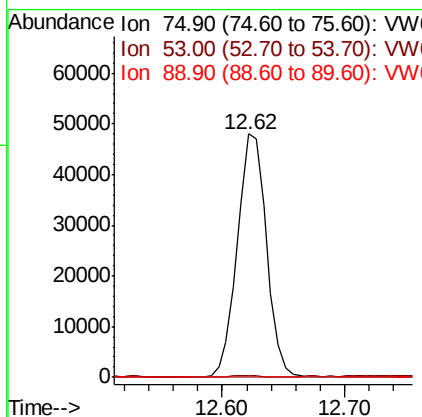
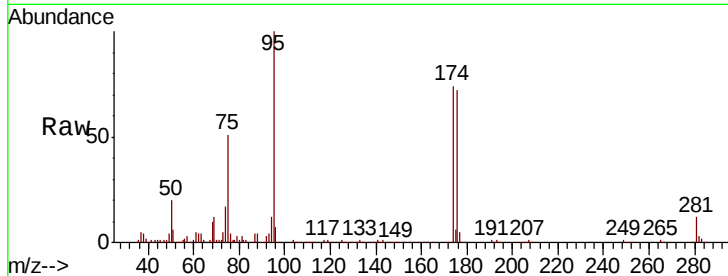




#81  
trans-1,4-Dichloro-2-butene  
Concen: 147.925 ug/l  
RT: 12.62 min Scan# 1758  
Delta R.T. 0.10 min  
Lab File: VW005428.D  
Acq: 17 Sep 2018 12:57

Instrument :  
MSVOA\_W  
ClientSampleId :  
DPT-SB-E1-180911

Tgt Ion: 75 Resp: 78974  
Ion Ratio Lower Upper  
75 100  
53 1.0 83.2 124.8#  
89 0.1 36.6 54.8#



#88  
1,4-Dichlorobenzene  
Concen: 1.526 ug/l  
RT: 13.58 min Scan# 1916  
Delta R.T. -0.00 min  
Lab File: VW005428.D  
Acq: 17 Sep 2018 12:57

Tgt Ion: 146 Resp: 8511  
Ion Ratio Lower Upper  
146 100  
111 103.8 19.6 58.8#  
148 71.4 31.8 95.4

