

Data File : VW005107.D  
Acq On : 05 Sep 2018 04:42  
Operator : SY/AP  
Sample : J4764-01  
Misc : 5.82G/5ML/MSVOA\_W/SOIL  
ALS Vial : 36 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
SP

Quant Time: Sep 05 05:20:14 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W090118S.M  
Quant Title : SW846 8260  
QLast Update : Sat Sep 01 03:35:05 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.96  | 168  | 474201   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 763112   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 753233   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 347594   | 50.00 | ug/l  | 0.00     |

System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 149862   | 38.12 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 76.24% |      |
| 35) Dibromofluoromethane  | 7.95   | 113 | 904      | 0.20  | ug/l   | 0.06 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 0.40%  |      |
| 50) Toluene-d8            | 10.33  | 98  | 596925   | 29.38 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 58.76% |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 198029   | 27.64 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 55.28% |      |

Target Compounds

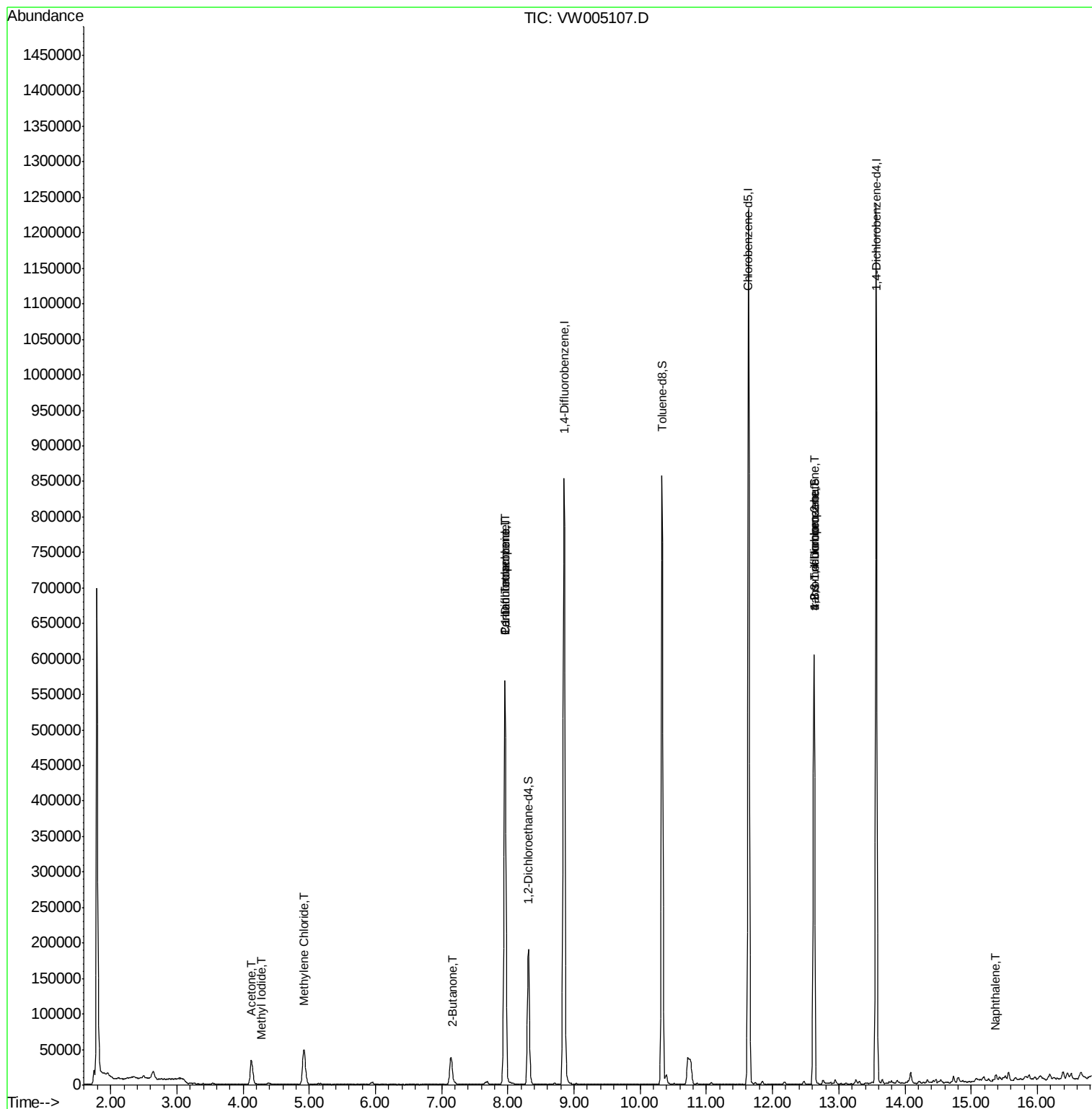
|                                |       |     |       |           |        | Qvalue |
|--------------------------------|-------|-----|-------|-----------|--------|--------|
| 5) Bromomethane                | 2.77  | 94  | 400   | Below Cal | #      | 44     |
| 10) Methyl Iodide              | 4.28  | 142 | 580   | 3.905     | ug/l # | 44     |
| 11) Tert butyl alcohol         | 5.13  | 59  | 822   | Below Cal | #      | 72     |
| 16) Acetone                    | 4.12  | 43  | 59042 | 74.894    | ug/l   | 96     |
| 20) Methylene Chloride         | 4.92  | 84  | 41193 | 4.166     | ug/l   | 94     |
| 25) 2-Butanone                 | 7.17  | 43  | 5868  | 4.291     | ug/l   | 93     |
| 36) 1,1-Dichloropropene        | 7.96  | 75  | 31437 | 4.326     | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 7.96  | 117 | 40986 | 5.931     | ug/l # | 17     |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75  | 90691 | 34.759    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.63 | 75  | 90691 | 83.662    | ug/l # | 15     |
| 95) Naphthalene                | 15.38 | 128 | 8106  | 4.575     | ug/l   | 97     |

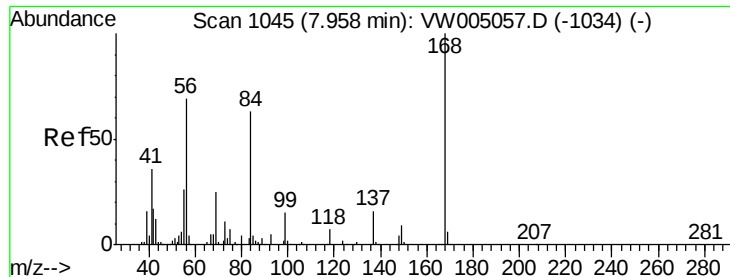
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.96 min Scan# 1045

Delta R.T. -0.00 min

Lab File: VW005107.D

Acq: 05 Sep 2018 04:42

Instrument :

MSVOA\_W

ClientSampleId :

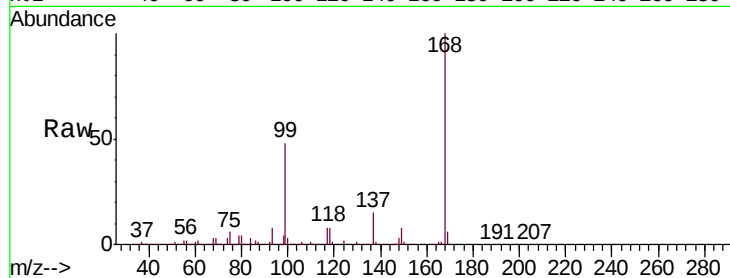
SP

Tgt Ion:168 Resp: 474201

Ion Ratio Lower Upper

168 100

99 48.0 39.4 59.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

250000

200000

150000

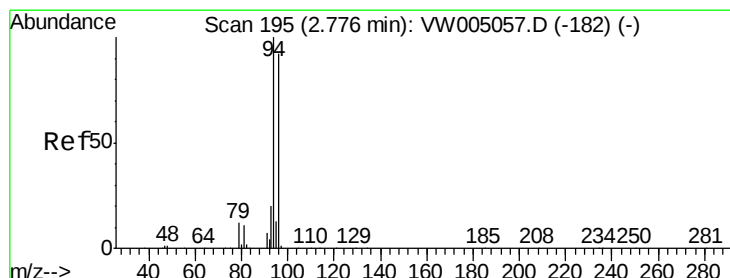
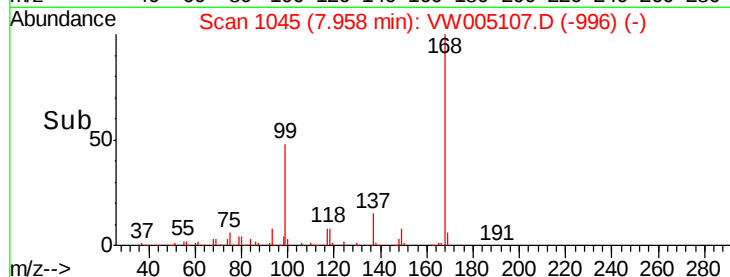
100000

50000

0

7.80 7.90 8.00 8.10

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.77 min Scan# 194

Delta R.T. -0.01 min

Lab File: VW005107.D

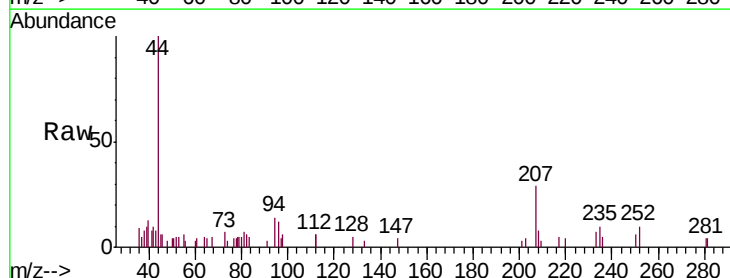
Acq: 05 Sep 2018 04:42

Tgt Ion: 94 Resp: 400

Ion Ratio Lower Upper

94 100

96 38.0 73.2 109.8#



Abundance Ion 93.90 (93.60 to 94.60): VW

Ion 95.90 (95.60 to 96.60): VW

400

300

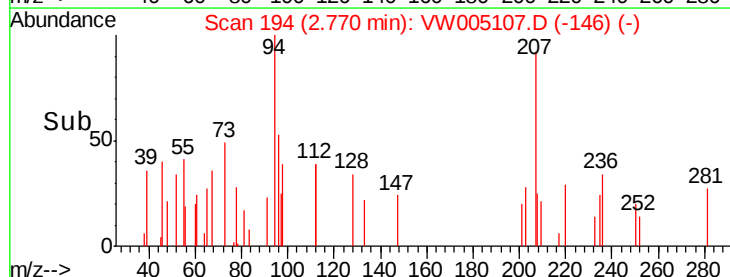
200

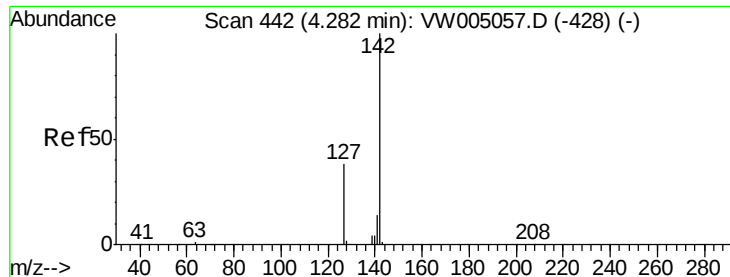
100

0

2.75 2.80

Time-->

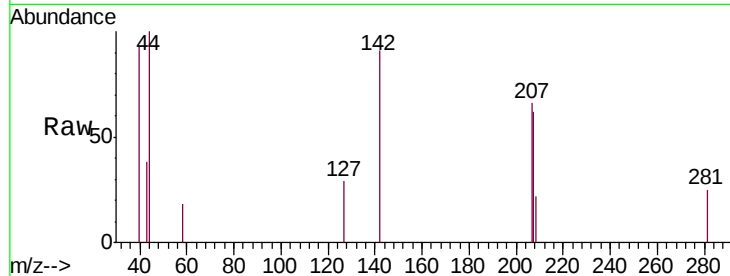




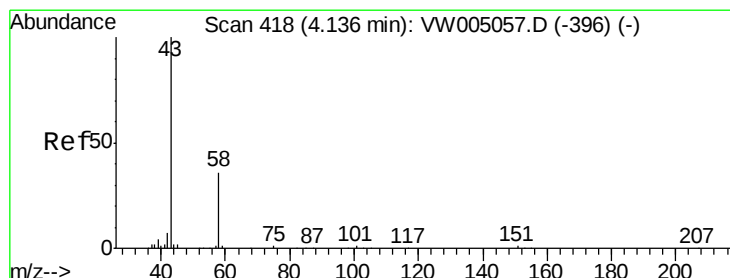
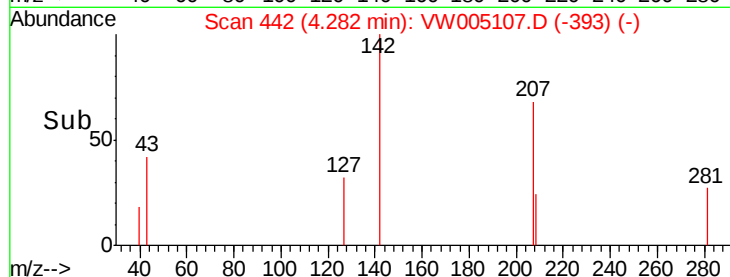
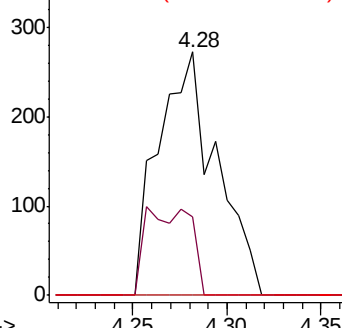
#10  
Methyl Iodide  
Concen: 3.905 ug/l  
RT: 4.28 min Scan# 442  
Delta R.T. 0.00 min  
Lab File: VW005107.D  
Acq: 05 Sep 2018 04:42

Instrument :  
MSVOA\_W  
ClientSampled :  
SP

Tgt Ion:142 Resp: 580  
Ion Ratio Lower Upper  
142 100  
127 0.0 30.8 46.2#  
141 0.0 11.6 17.4#

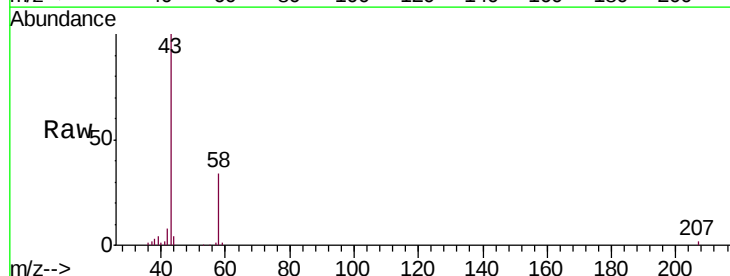


Abundance Ion 141.80 (141.50 to 142.50): V  
Ion 126.80 (126.50 to 127.50): V  
Ion 140.80 (140.50 to 141.50): V

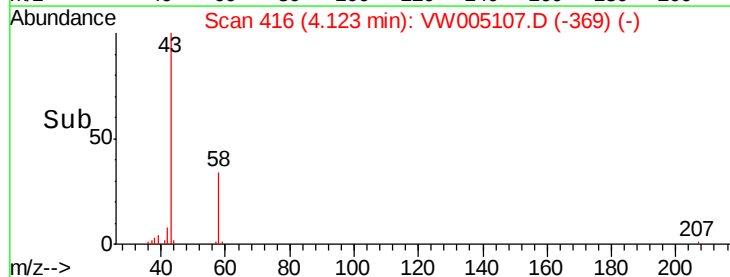
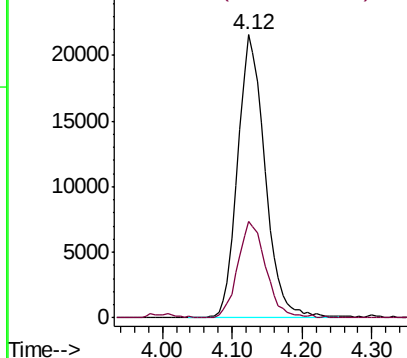


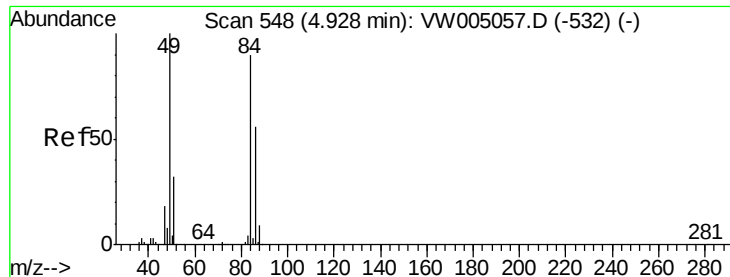
#16  
Acetone  
Concen: 74.894 ug/l  
RT: 4.12 min Scan# 416  
Delta R.T. -0.01 min  
Lab File: VW005107.D  
Acq: 05 Sep 2018 04:42

Tgt Ion: 43 Resp: 59042  
Ion Ratio Lower Upper  
43 100  
58 34.0 29.0 43.6



Abundance Ion 43.00 (42.70 to 43.70): VW  
Ion 58.00 (57.70 to 58.70): VW

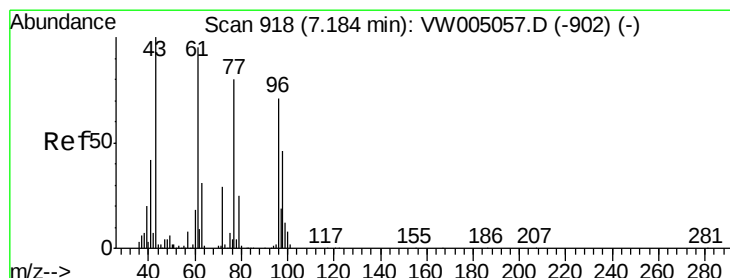
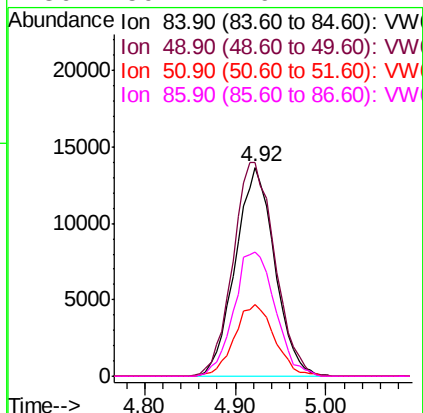
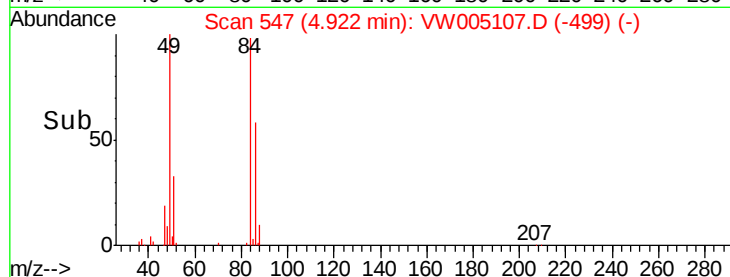
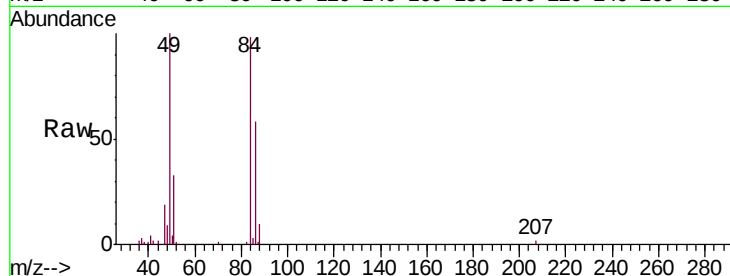




#20  
Methylene Chloride  
Concen: 4.166 ug/l  
RT: 4.92 min Scan# 547  
Delta R.T. -0.01 min  
Lab File: VW005107.D  
Acq: 05 Sep 2018 04:42

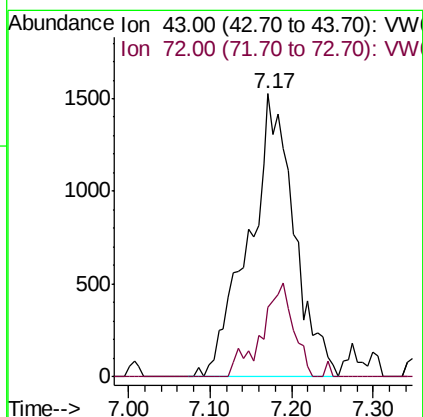
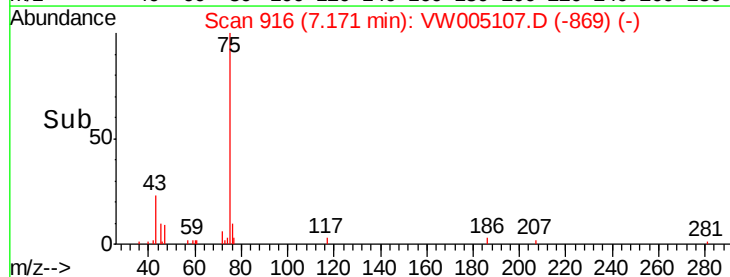
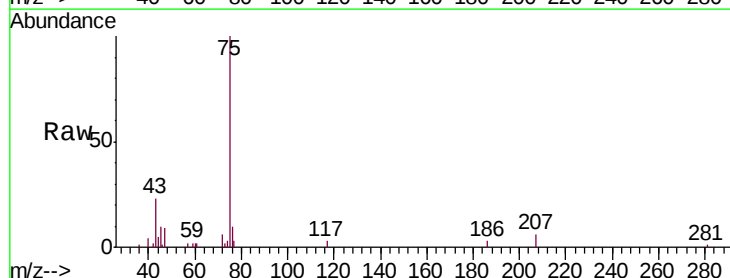
Instrument :  
MSVOA\_W  
ClientSampleId :  
SP

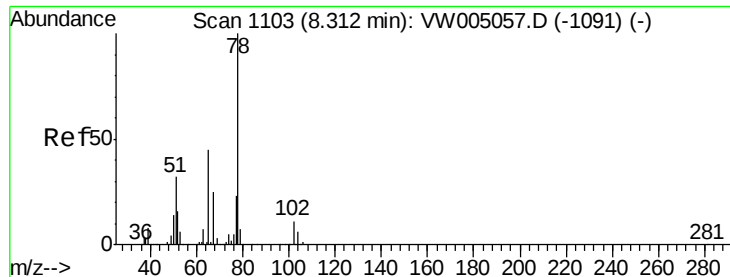
Tgt Ion: 84 Resp: 41193  
Ion Ratio Lower Upper  
84 100  
49 102.3 88.7 133.1  
51 34.1 28.6 42.8  
86 59.7 49.4 74.2



#25  
2-Butanone  
Concen: 4.291 ug/l  
RT: 7.17 min Scan# 916  
Delta R.T. -0.01 min  
Lab File: VW005107.D  
Acq: 05 Sep 2018 04:42

Tgt Ion: 43 Resp: 5868  
Ion Ratio Lower Upper  
43 100  
72 32.7 23.1 34.7

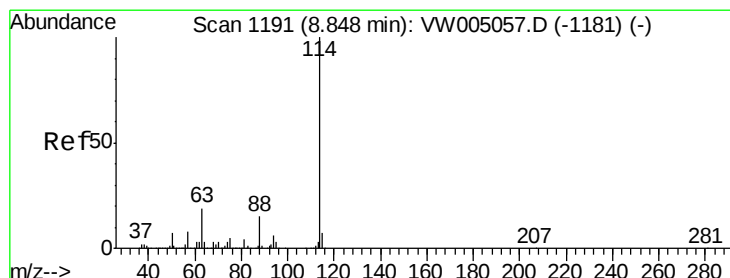
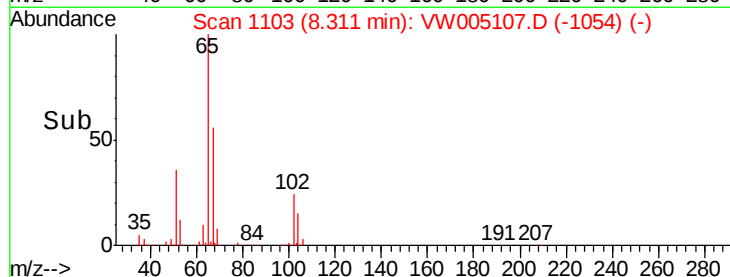
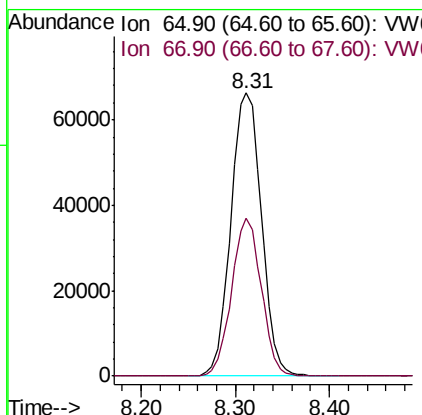
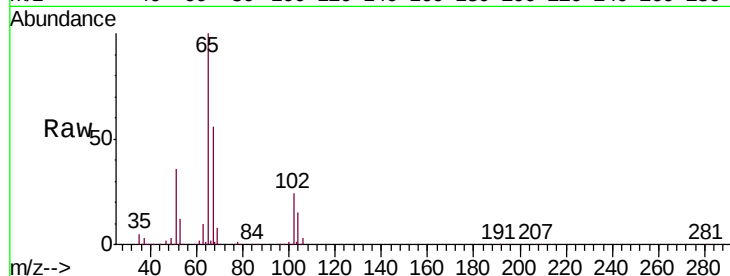




#33  
 1,2-Dichloroethane-d4  
 Concen: 38.124 ug/l  
 RT: 8.31 min Scan# 1103  
 Delta R.T. -0.00 min  
 Lab File: VW005107.D  
 Acq: 05 Sep 2018 04:42

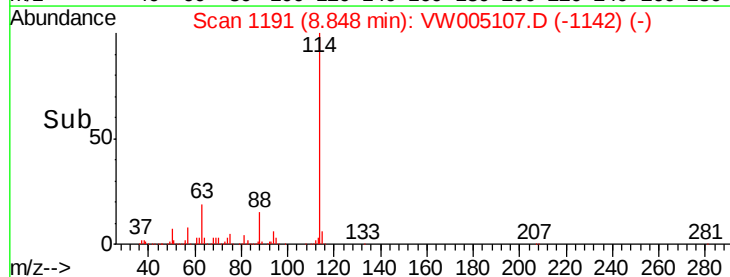
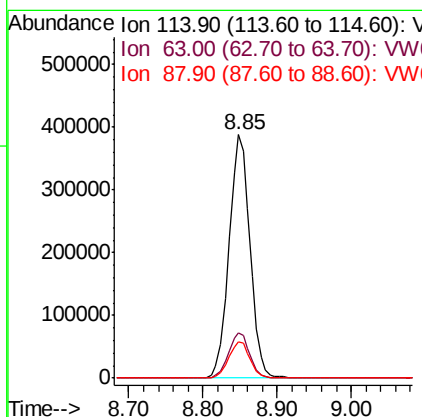
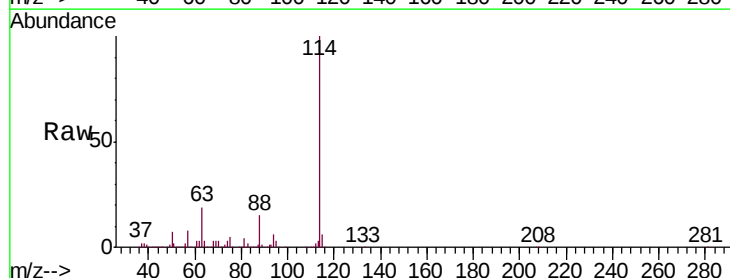
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SP

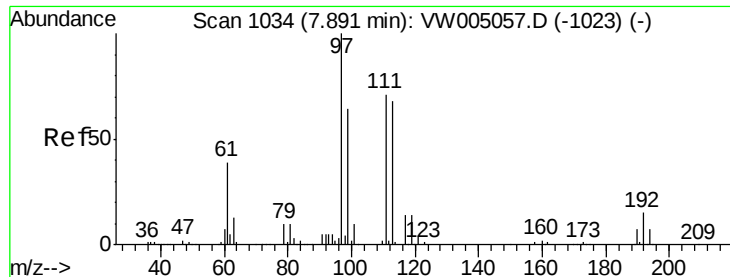
Tgt Ion: 65 Resp: 149862  
 Ion Ratio Lower Upper  
 65 100  
 67 54.0 0.0 109.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.85 min Scan# 1191  
 Delta R.T. -0.00 min  
 Lab File: VW005107.D  
 Acq: 05 Sep 2018 04:42

Tgt Ion: 114 Resp: 763112  
 Ion Ratio Lower Upper  
 114 100  
 63 18.8 0.0 38.0  
 88 15.0 0.0 30.2

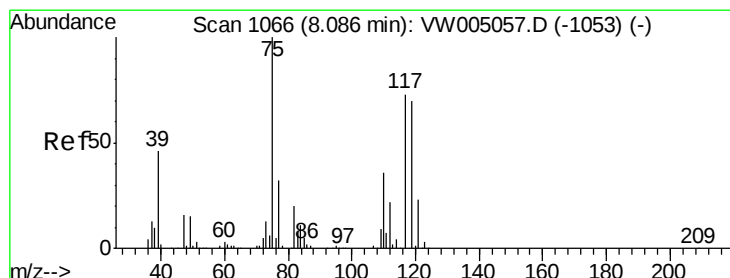
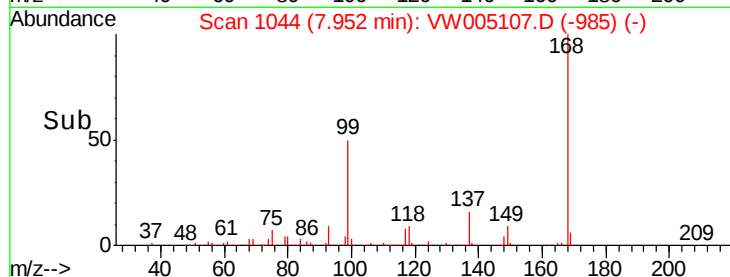
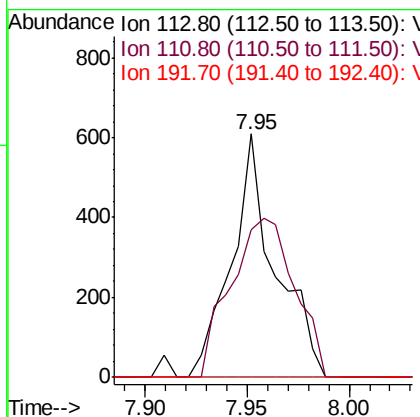
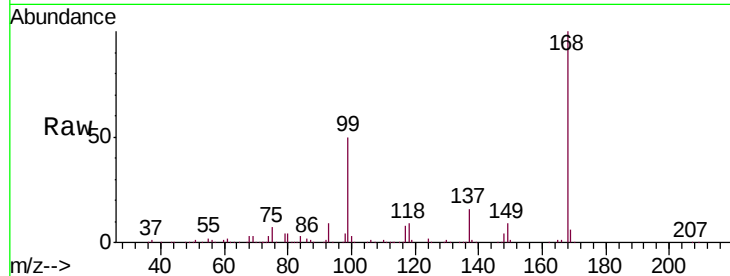




#35  
 Dibromofluoromethane  
 Concen: 0.205 ug/l  
 RT: 7.95 min Scan# 1044  
 Delta R.T. 0.06 min  
 Lab File: VW005107.D  
 Acq: 05 Sep 2018 04:42

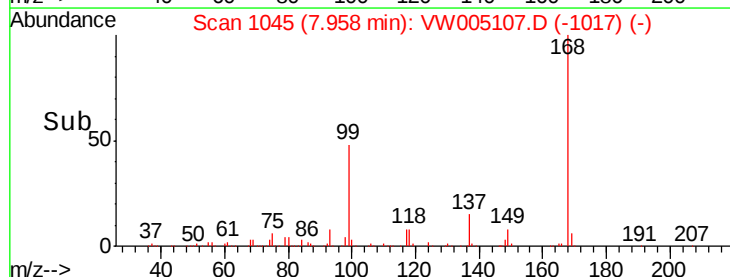
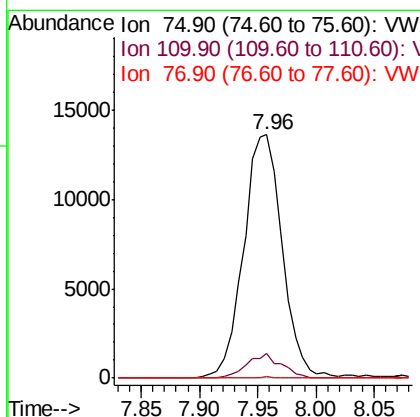
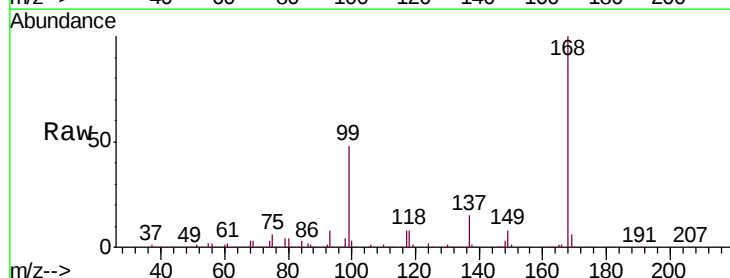
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SP

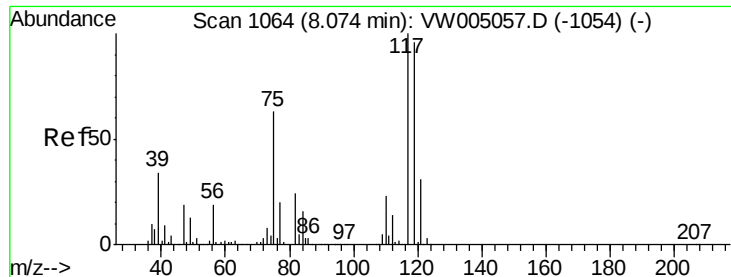
Tgt Ion: 113 Resp: 904  
 Ion Ratio Lower Upper  
 113 100  
 111 96.2 82.2 123.2  
 192 0.0 18.1 27.1#



#36  
 1,1-Dichloropropene  
 Concen: 4.326 ug/l  
 RT: 7.96 min Scan# 1045  
 Delta R.T. -0.13 min  
 Lab File: VW005107.D  
 Acq: 05 Sep 2018 04:42

Tgt Ion: 75 Resp: 31437  
 Ion Ratio Lower Upper  
 75 100  
 110 9.0 18.9 56.7#  
 77 0.1 25.5 38.3#





#38

Carbon Tetrachloride

Concen: 5.931 ug/l

RT: 7.96 min Scan# 1045

Delta R.T. -0.12 min

Lab File: VW005107.D

Acq: 05 Sep 2018 04:42

Instrument :

MSVOA\_W

ClientSampled :

SP

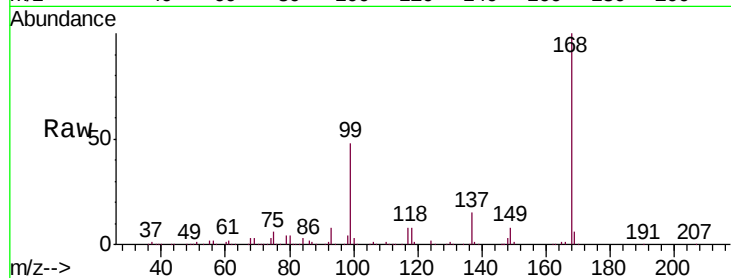
Tgt Ion:117 Resp: 40986

Ion Ratio Lower Upper

117 100

119 6.3 76.6 115.0#

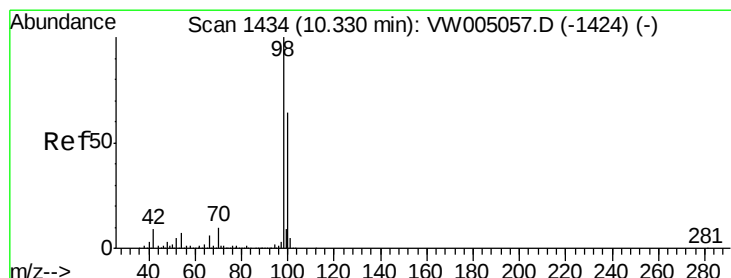
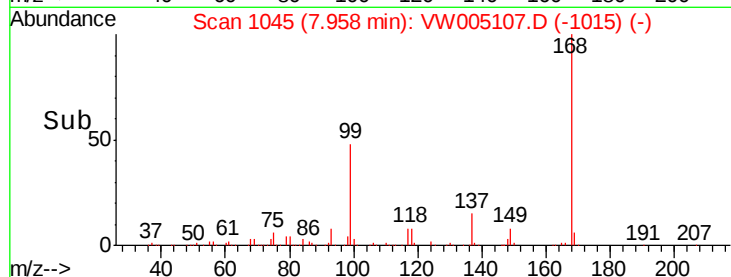
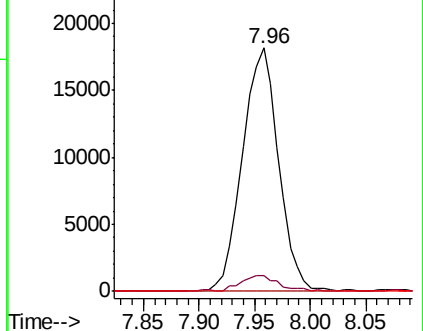
121 0.0 24.8 37.2#



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: 29.376 ug/l

RT: 10.33 min Scan# 1434

Delta R.T. -0.00 min

Lab File: VW005107.D

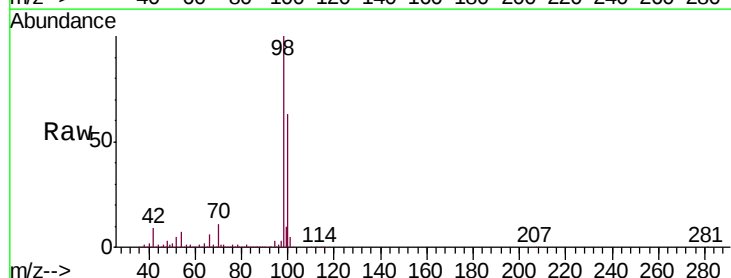
Acq: 05 Sep 2018 04:42

Tgt Ion: 98 Resp: 596925

Ion Ratio Lower Upper

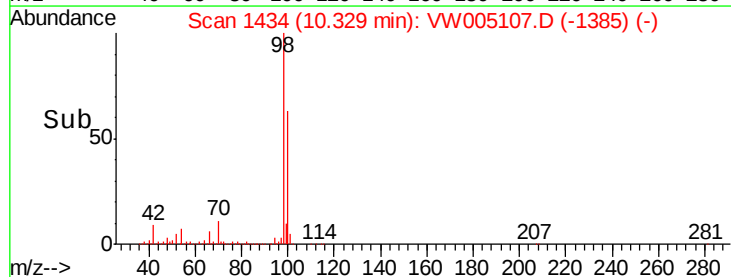
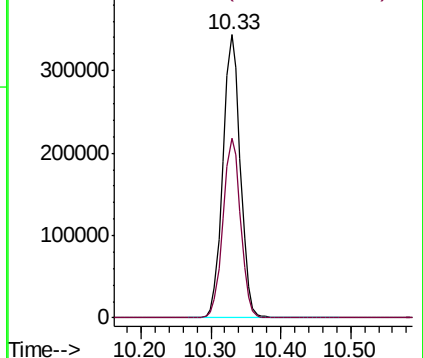
98 100

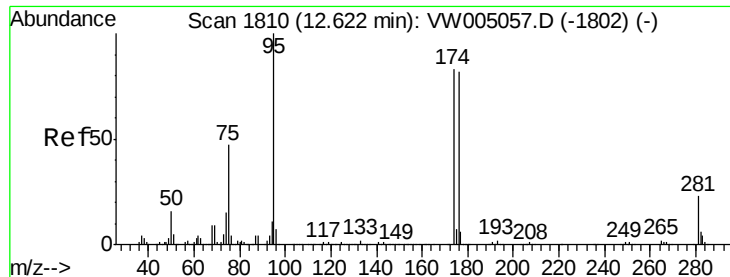
100 63.7 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW

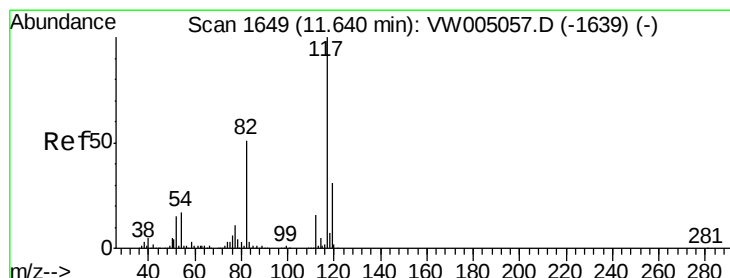
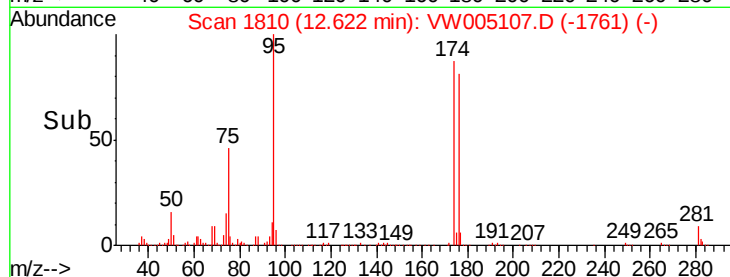
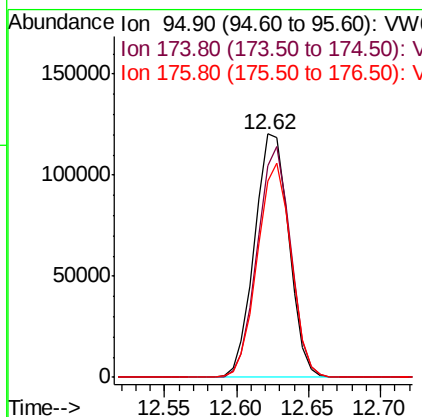
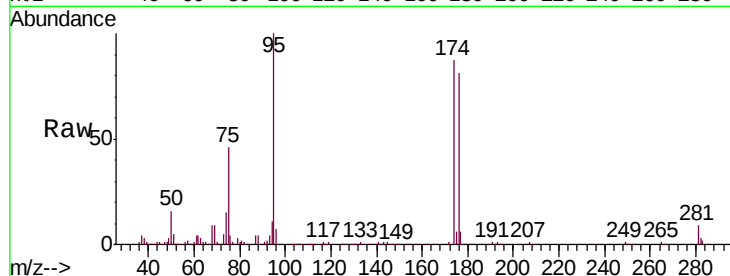




#62  
4-Bromofluorobenzene  
Concen: 27.638 ug/l  
RT: 12.62 min Scan# 1810  
Delta R.T. -0.00 min  
Lab File: VW005107.D  
Acq: 05 Sep 2018 04:42

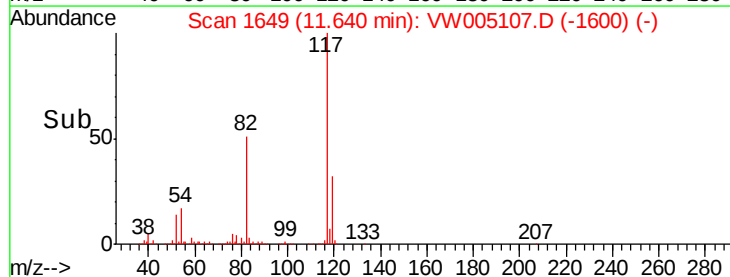
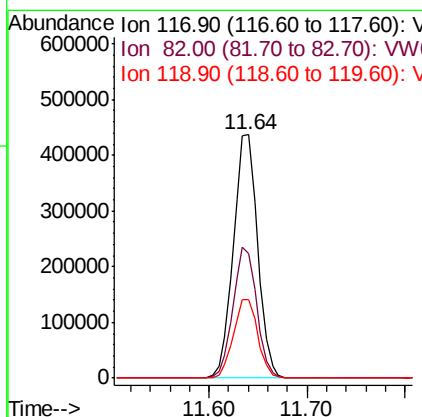
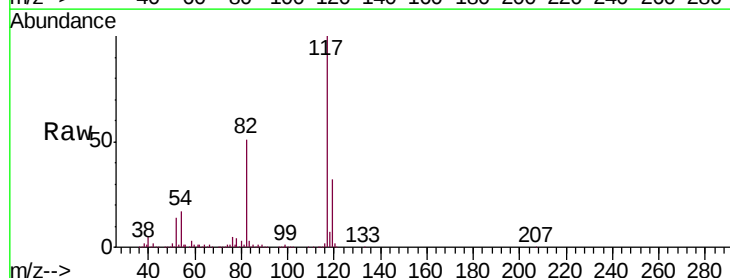
Instrument :  
MSVOA\_W  
ClientSampleId :  
SP

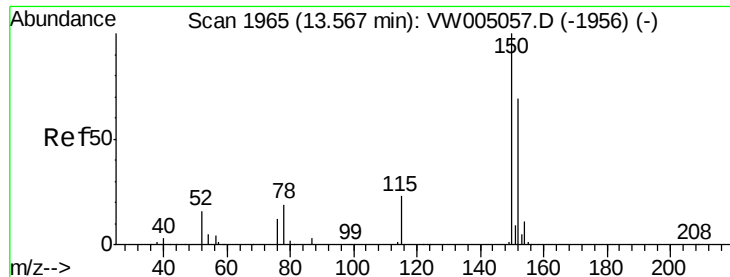
Tgt Ion: 95 Resp: 198029  
Ion Ratio Lower Upper  
95 100  
174 92.1 0.0 173.4  
176 86.8 0.0 167.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.64 min Scan# 1649  
Delta R.T. -0.00 min  
Lab File: VW005107.D  
Acq: 05 Sep 2018 04:42

Tgt Ion: 117 Resp: 753233  
Ion Ratio Lower Upper  
117 100  
82 50.9 40.9 61.3  
119 32.0 24.9 37.3



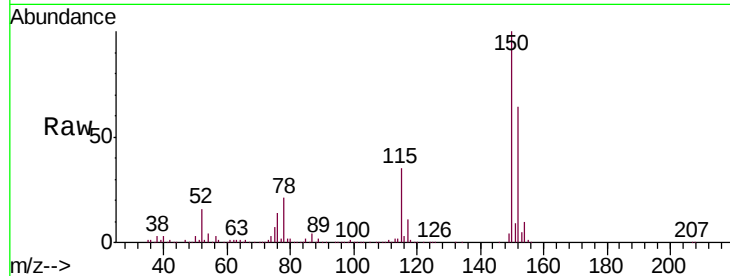


#72

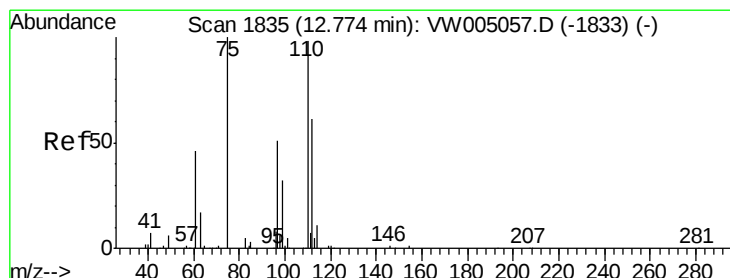
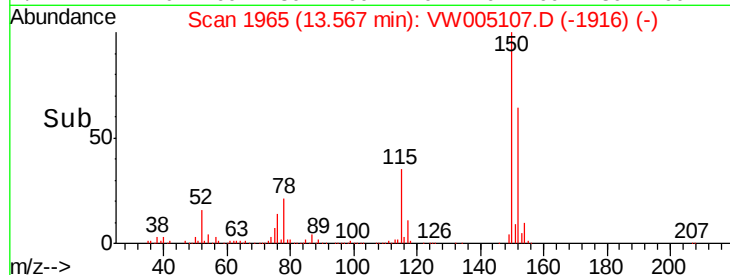
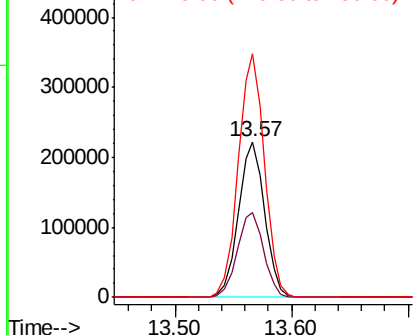
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.57 min Scan# 1965  
Delta R.T. -0.00 min  
Lab File: VW005107.D  
Acq: 05 Sep 2018 04:42

Instrument :  
MSVOA\_W  
ClientSampled :  
SP

Tgt Ion: 152 Resp: 347594  
Ion Ratio Lower Upper  
152 100  
115 55.1 27.8 83.4  
150 156.7 0.0 351.4



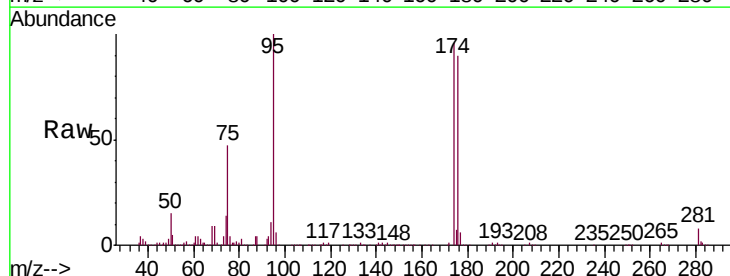
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V



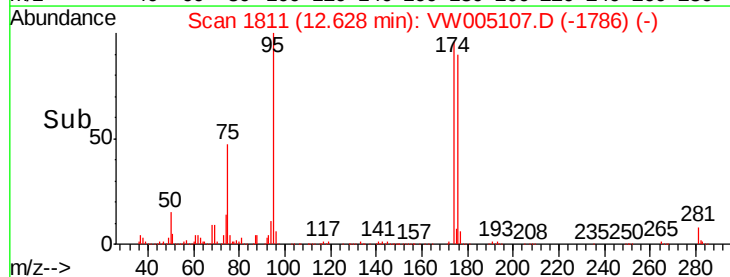
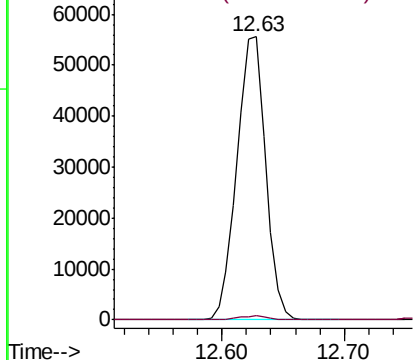
#76

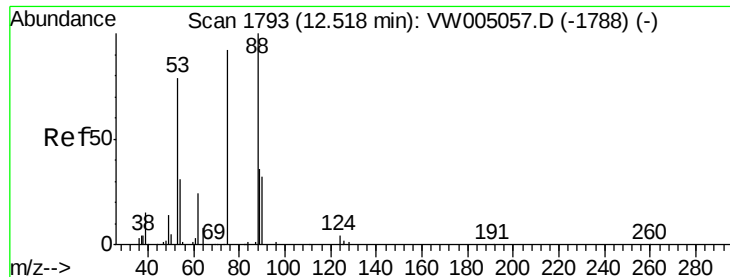
1,2,3-Trichloropropane  
Concen: 34.759 ug/l  
RT: 12.63 min Scan# 1811  
Delta R.T. -0.15 min  
Lab File: VW005107.D  
Acq: 05 Sep 2018 04:42

Tgt Ion: 75 Resp: 90691  
Ion Ratio Lower Upper  
75 100  
77 1.6 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW  
Ion 77.00 (76.70 to 77.70): VW

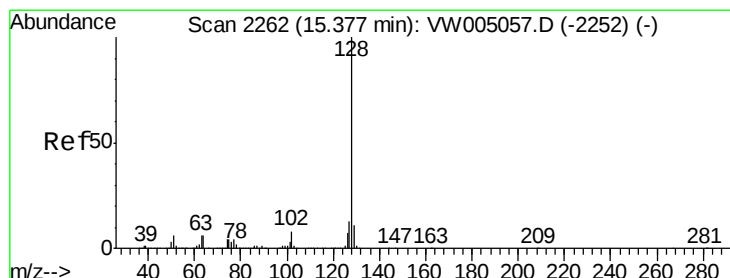
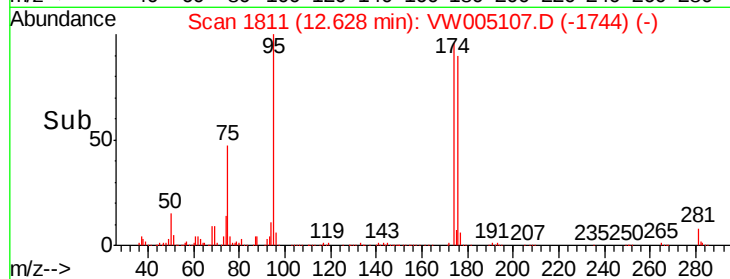
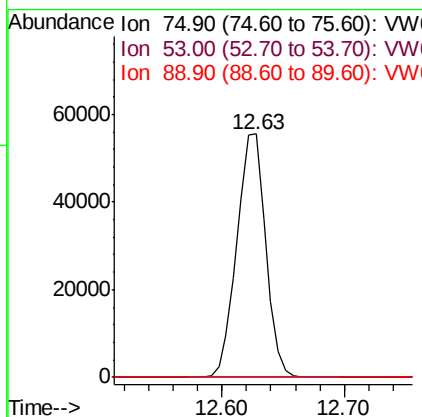
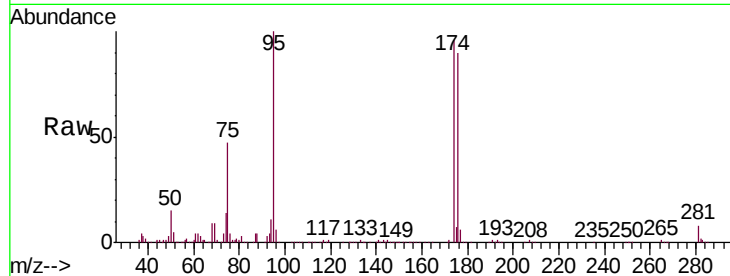




#81  
trans-1,4-Dichloro-2-butene  
Concen: 83.662 ug/l  
RT: 12.63 min Scan# 1811  
Delta R.T. 0.11 min  
Lab File: VW005107.D  
Acq: 05 Sep 2018 04:42

Instrument :  
MSVOA\_W  
ClientSampleId :  
SP

Tgt Ion: 75 Resp: 90691  
Ion Ratio Lower Upper  
75 100  
53 0.3 69.8 104.8#  
89 0.0 36.0 54.0#



#95  
Naphthalene  
Concen: 4.575 ug/l  
RT: 15.38 min Scan# 2262  
Delta R.T. 0.00 min  
Lab File: VW005107.D  
Acq: 05 Sep 2018 04:42

Tgt Ion: 128 Resp: 8106  
Ion Ratio Lower Upper  
128 100  
127 15.1 10.4 15.6  
129 10.6 8.7 13.1

