

Data File : VW008175.D  
Acq On : 11 Jan 2019 04:40  
Operator : SY/AP  
Sample : K1099-05RE  
Misc : 4.64G/5ML/MSVOA\_W/SOIL  
ALS Vial : 39 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
TP-16

Quant Time: Jan 11 07:25:05 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W010819S.M  
Quant Title : SW846 8260  
QLast Update : Wed Jan 09 04:40:48 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 87483    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 159903   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 137993   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 50552    | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 8.31   | 65  | 54308    | 55.23 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 110.46% |      |
| 35) Dibromofluoromethane    | 7.88   | 113 | 50505    | 54.15 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 108.30% |      |
| 50) Toluene-d8              | 10.32  | 98  | 203023   | 51.88 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 103.76% |      |
| 62) 4-Bromofluorobenzene    | 12.62  | 95  | 59488    | 42.40 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 84.80%  |      |

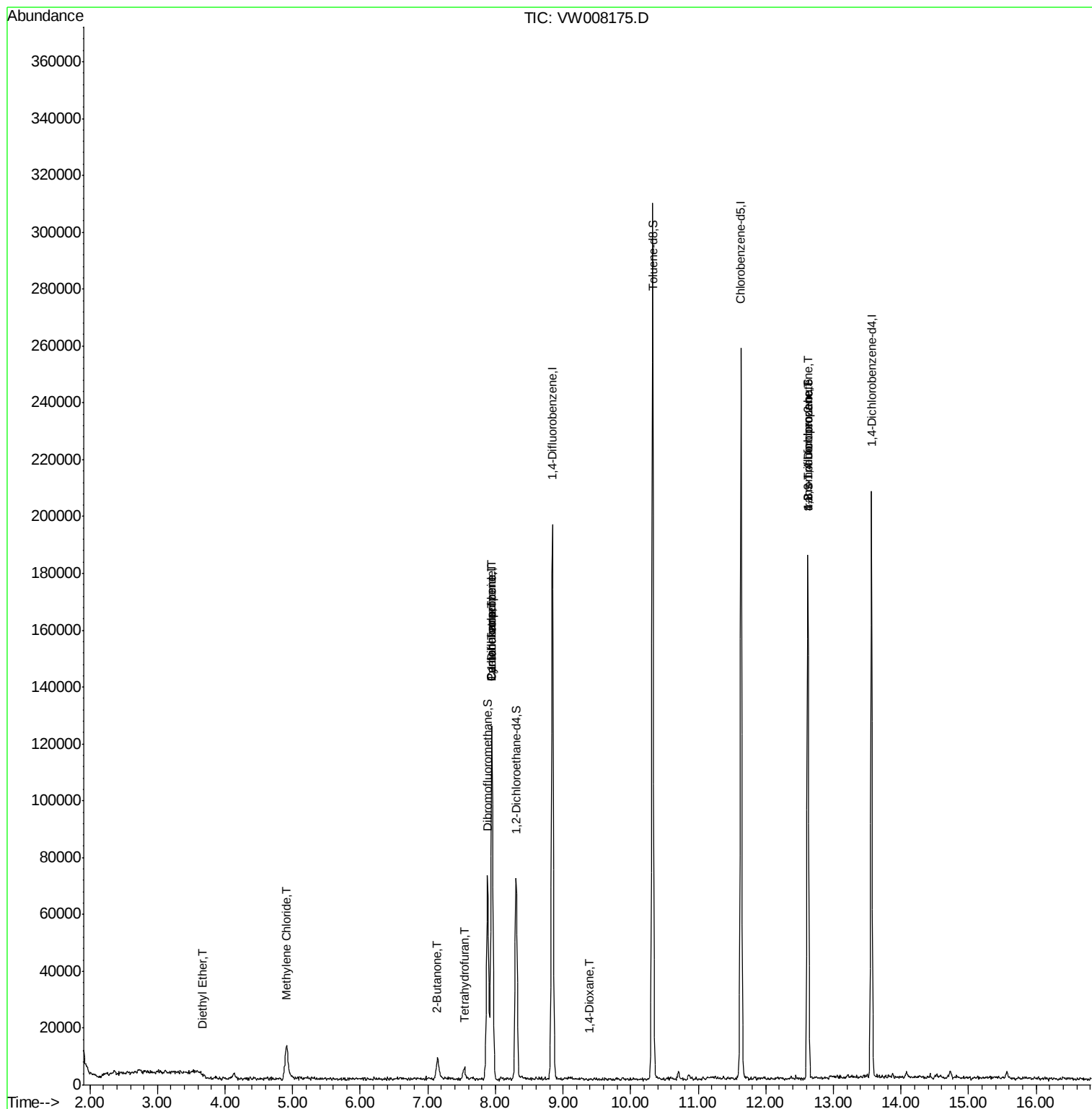
|                                |       |     |        |           |        |     |
|--------------------------------|-------|-----|--------|-----------|--------|-----|
| Target Compounds               |       |     | Qvalue |           |        |     |
| 8) Diethyl Ether               | 3.67  | 74  | 601    | 1.082     | ug/l   | 96  |
| 11) Tert butyl alcohol         | 5.24  | 59  | 96     | Below Cal | #      | 100 |
| 13) Acrolein                   | 3.89  | 56  | 82     | Below Cal | #      | 1   |
| 16) Acetone                    | 4.14  | 43  | 3480   | Below Cal |        | 96  |
| 20) Methylene Chloride         | 4.92  | 84  | 9319   | 5.331     | ug/l   | 87  |
| 25) 2-Butanone                 | 7.15  | 43  | 411    | 1.502     | ug/l # | 75  |
| 29) Tetrahydrofuran            | 7.54  | 42  | 3122   | 17.085    | ug/l # | 81  |
| 31) Cyclohexane                | 7.95  | 56  | 2336   | 1.129     | ug/l # | 1   |
| 36) 1,1-Dichloropropene        | 7.95  | 75  | 7885   | 4.787     | ug/l # | 53  |
| 38) Carbon Tetrachloride       | 7.95  | 117 | 9399   | 6.234     | ug/l # | 17  |
| 49) 1,4-Dioxane                | 9.39  | 88  | 22     | 2.515     | ug/l # | 37  |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75  | 29955  | 65.001    | ug/l # | 1   |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75  | 29955  | 151.368   | ug/l # | 11  |

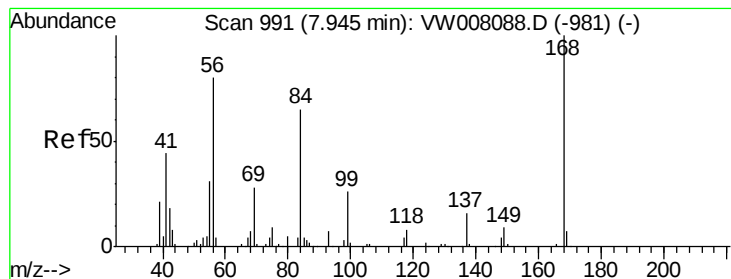
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW008175.D

Acq: 11 Jan 2019 04:40

Instrument :

MSVOA\_W

ClientSampled :

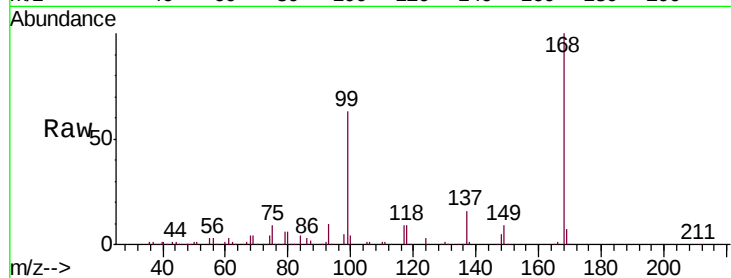
TP-16

Tgt Ion:168 Resp: 87483

Ion Ratio Lower Upper

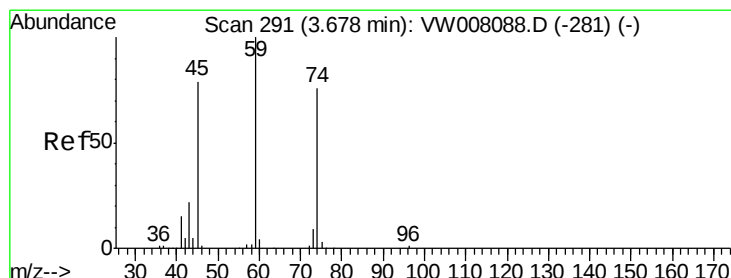
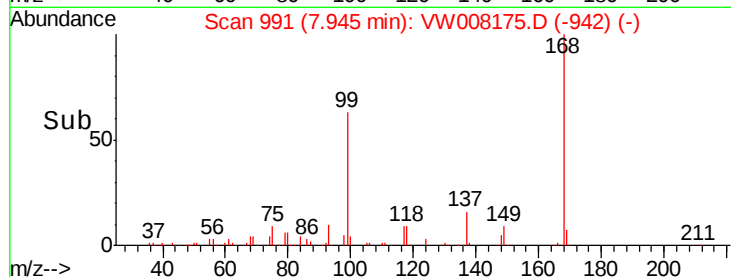
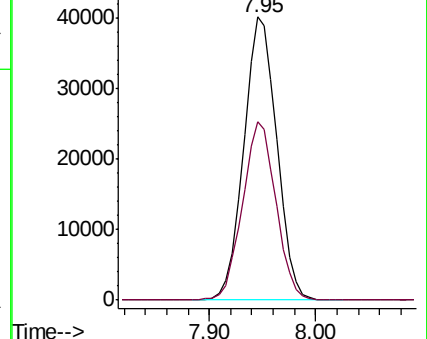
168 100

99 63.0 52.6 78.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#8

Diethyl Ether

Concen: 1.082 ug/l

RT: 3.67 min Scan# 289

Delta R.T. -0.01 min

Lab File: VW008175.D

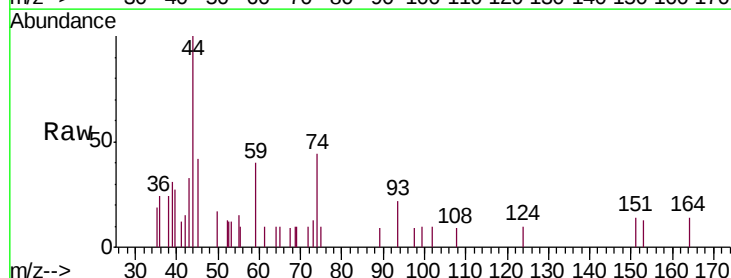
Acq: 11 Jan 2019 04:40

Tgt Ion: 74 Resp: 601

Ion Ratio Lower Upper

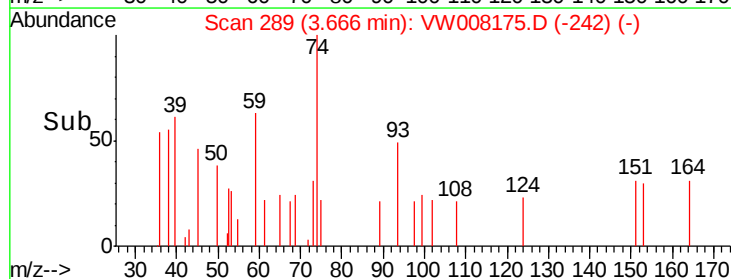
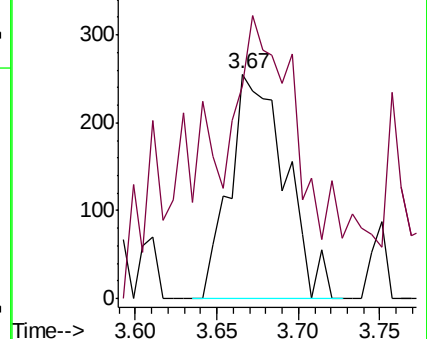
74 100

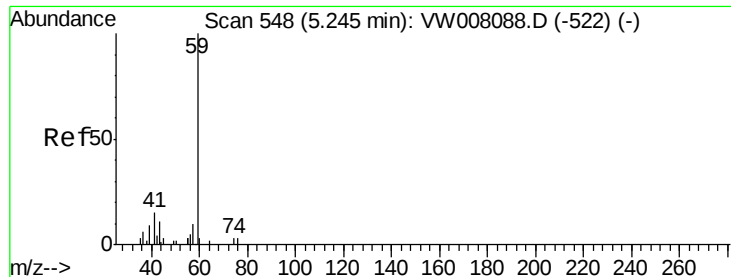
45 101.2 52.4 157.3



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

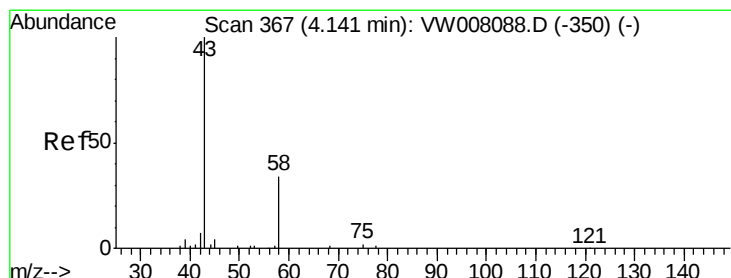
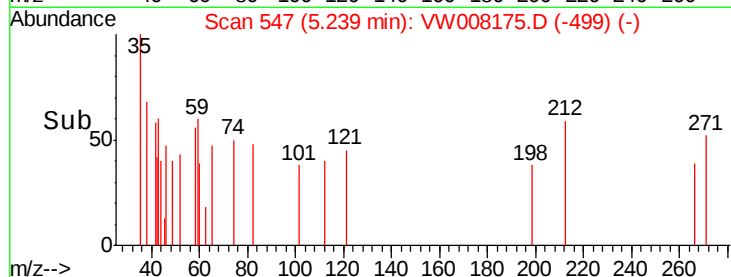
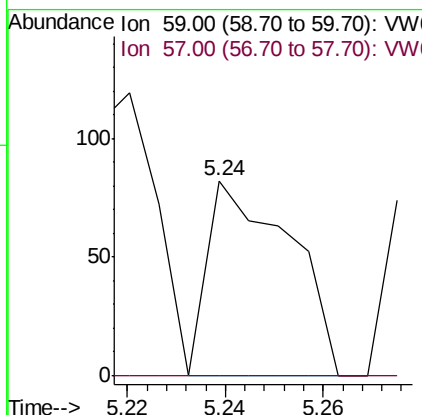
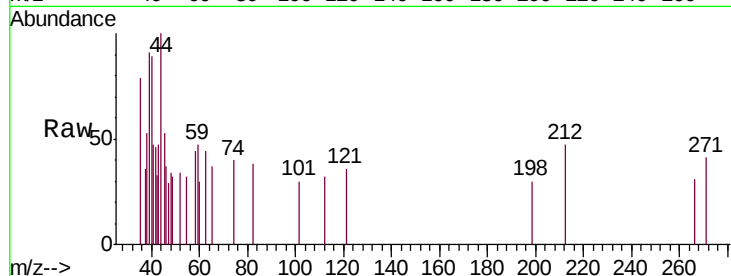




#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 5.24 min Scan# 547  
Delta R.T. -0.01 min  
Lab File: VW008175.D  
Acq: 11 Jan 2019 04:40

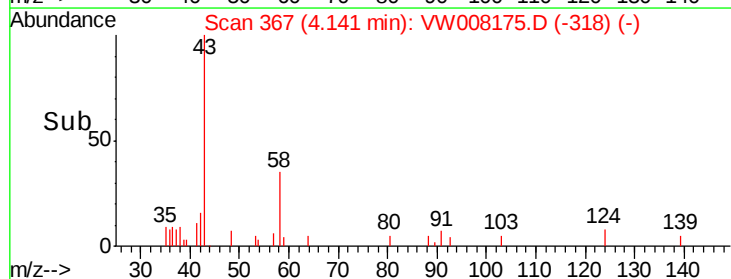
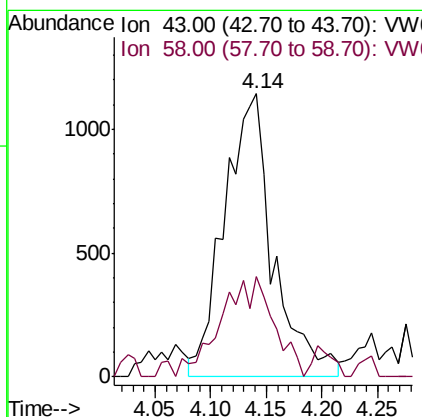
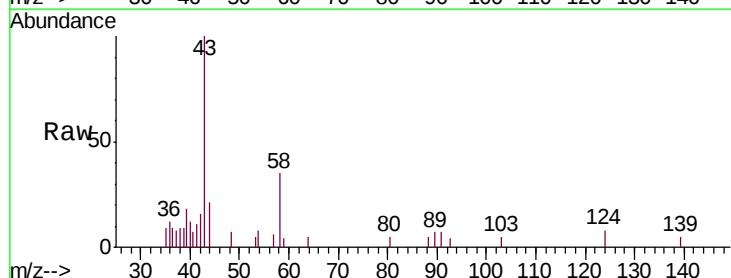
Instrument :  
MSVOA\_W  
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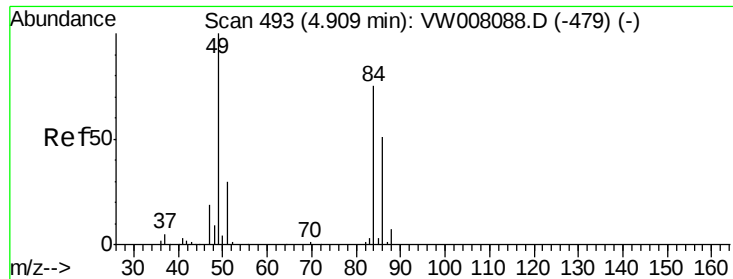
Tgt Ion: 59 Resp: 96  
Ion Ratio Lower Upper  
59 100  
57 0.0 0.0 0.0



#16  
Acetone  
Concen: Below Cal  
RT: 4.14 min Scan# 367  
Delta R.T. 0.00 min  
Lab File: VW008175.D  
Acq: 11 Jan 2019 04:40

Tgt Ion: 43 Resp: 3480  
Ion Ratio Lower Upper  
43 100  
58 32.2 27.5 41.3

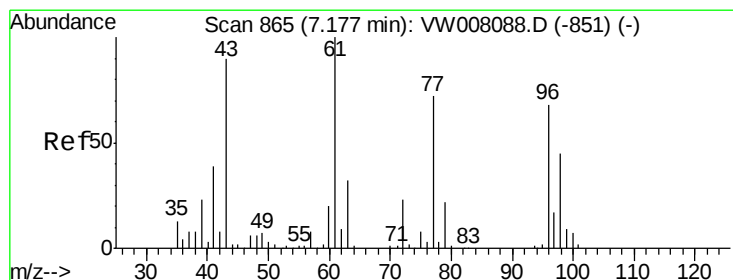
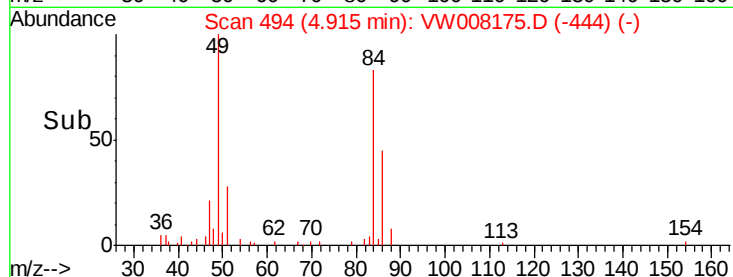
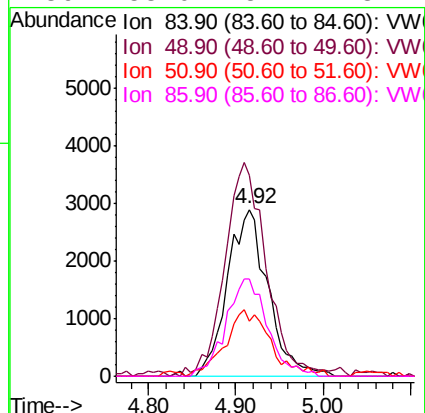
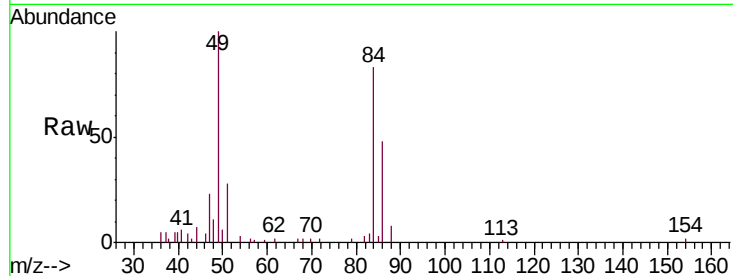




#20  
Methylene Chloride  
Concen: 5.331 ug/l  
RT: 4.92 min Scan# 494  
Delta R.T. 0.01 min  
Lab File: VW008175.D  
Acq: 11 Jan 2019 04:40

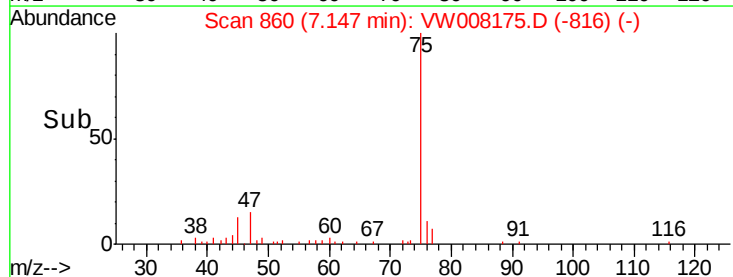
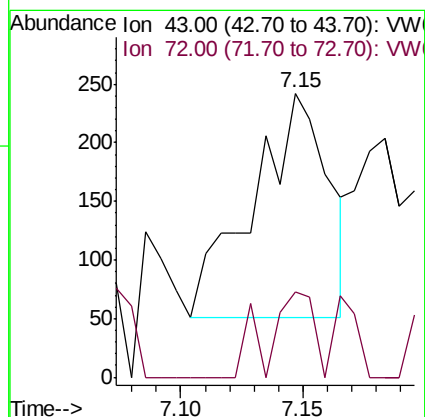
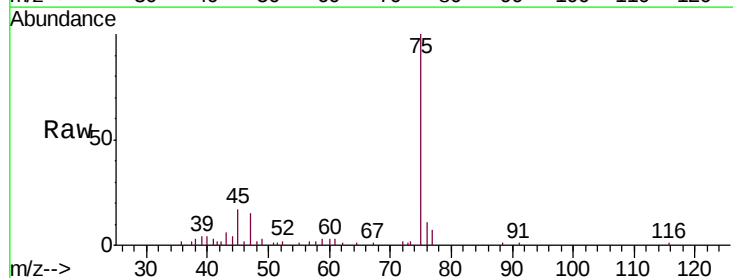
Instrument :  
MSVOA\_W  
ClientSampled :  
TP-16

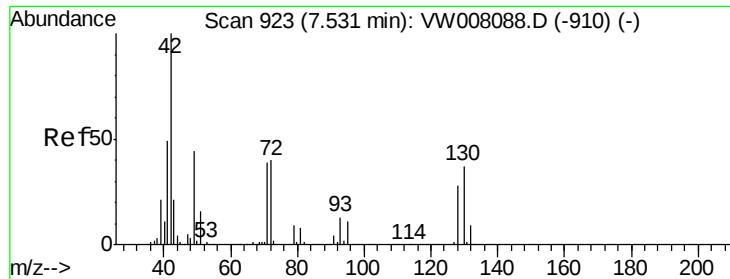
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 9319  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 117.8 | 107.1 | 160.7 |
| 51       | 33.2  | 32.4  | 48.6  |
| 86       | 58.0  | 54.2  | 81.4  |



#25  
2-Butanone  
Concen: 1.502 ug/l  
RT: 7.15 min Scan# 860  
Delta R.T. -0.03 min  
Lab File: VW008175.D  
Acq: 11 Jan 2019 04:40

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 411   |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 38.2  | 20.5  | 30.7# |

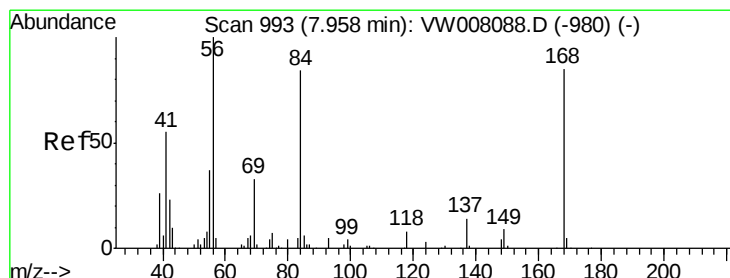
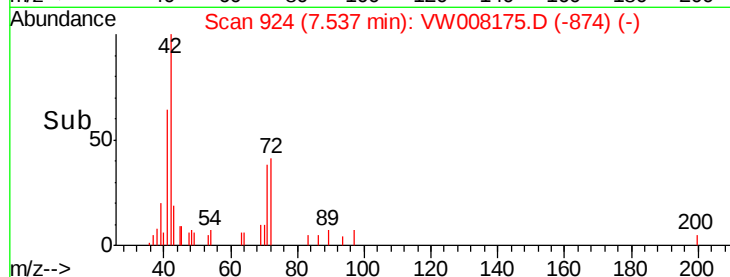
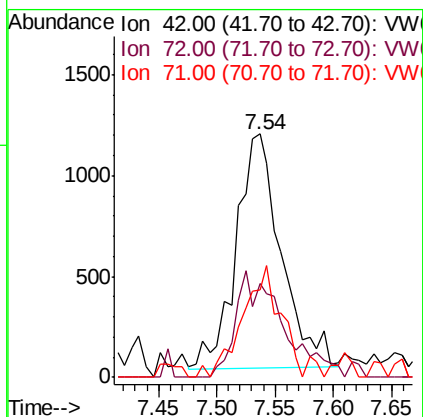
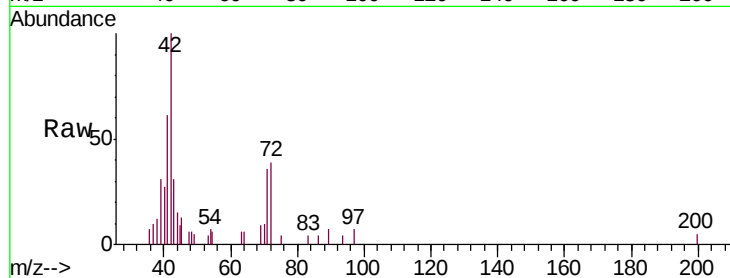




#29  
Tetrahydrofuran  
Concen: 17.085 ug/l  
RT: 7.54 min Scan# 924  
Delta R.T. 0.01 min  
Lab File: VW008175.D  
Acq: 11 Jan 2019 04:40

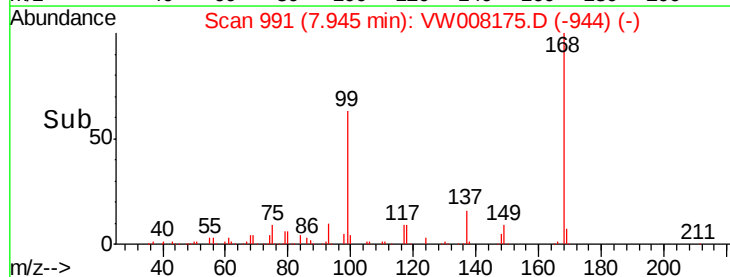
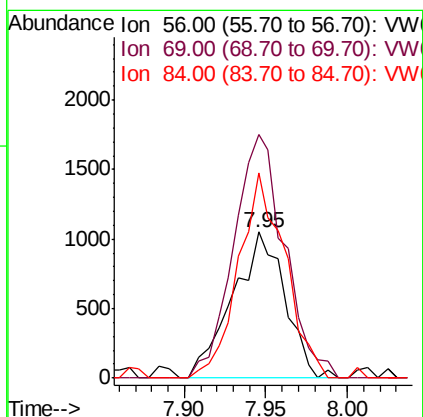
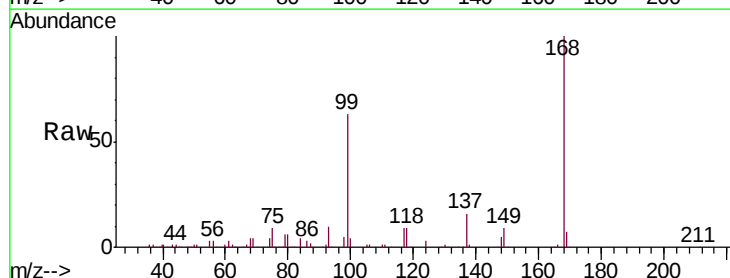
Instrument :  
MSVOA\_W  
ClientSampleId :  
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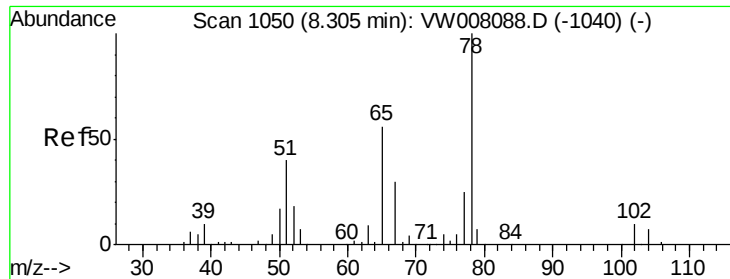
Tgt Ion: 42 Resp: 3122  
Ion Ratio Lower Upper  
42 100  
72 18.5 32.4 48.6#  
71 40.0 31.3 46.9



#31  
Cyclohexane  
Concen: 1.129 ug/l  
RT: 7.95 min Scan# 991  
Delta R.T. -0.01 min  
Lab File: VW008175.D  
Acq: 11 Jan 2019 04:40

Tgt Ion: 56 Resp: 2336  
Ion Ratio Lower Upper  
56 100  
69 166.9 26.2 39.4#  
84 140.8 67.4 101.2#

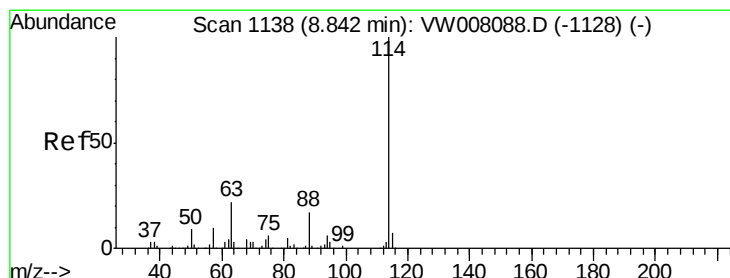
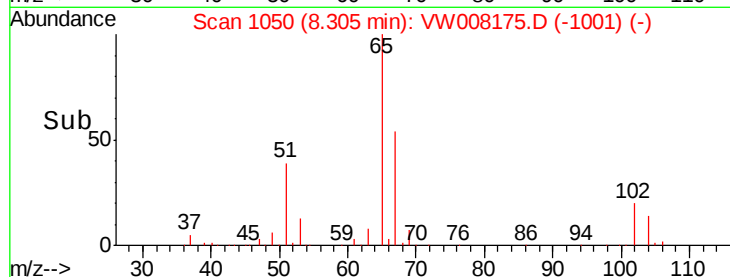
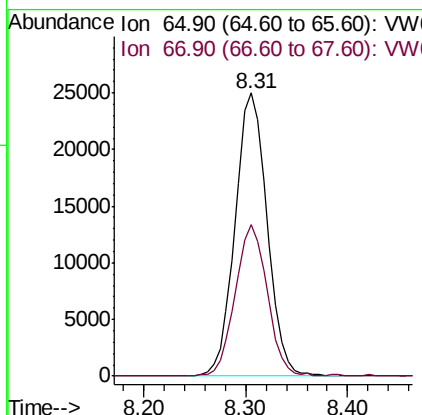
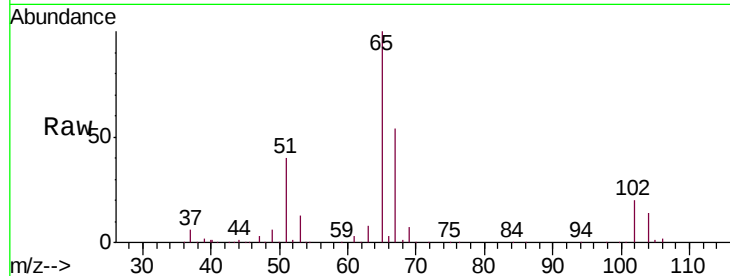




#33  
 1,2-Dichloroethane-d4  
 Concen: 55.234 ug/l  
 RT: 8.31 min Scan# 1050  
 Delta R.T. -0.00 min  
 Lab File: VW008175.D  
 Acq: 11 Jan 2019 04:40

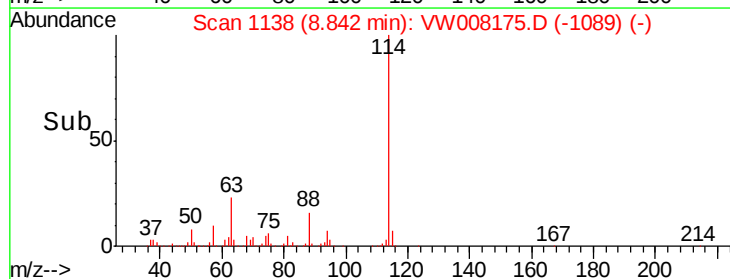
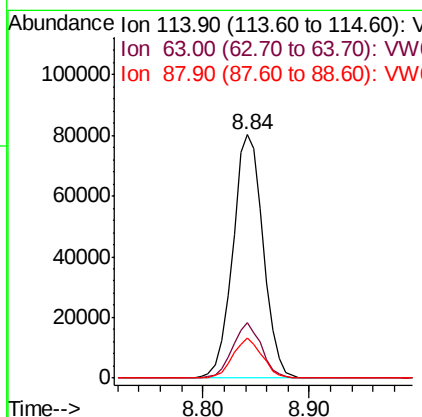
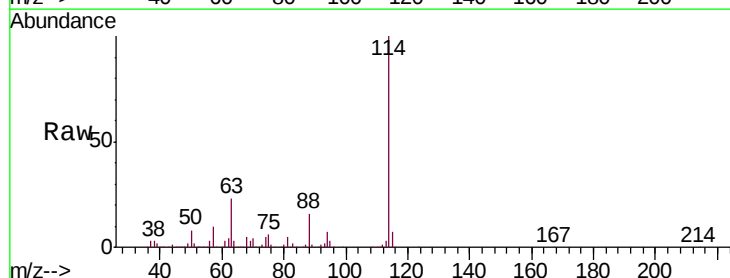
Instrument :  
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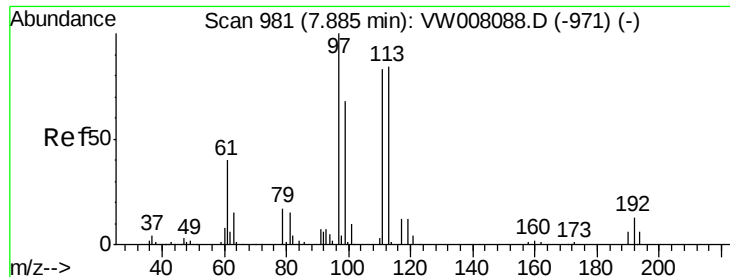
Tgt Ion: 65 Resp: 54308  
 Ion Ratio Lower Upper  
 65 100  
 67 53.6 0.0 106.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. -0.00 min  
 Lab File: VW008175.D  
 Acq: 11 Jan 2019 04:40

Tgt Ion: 114 Resp: 159903  
 Ion Ratio Lower Upper  
 114 100  
 63 22.5 0.0 43.4  
 88 16.4 0.0 33.4

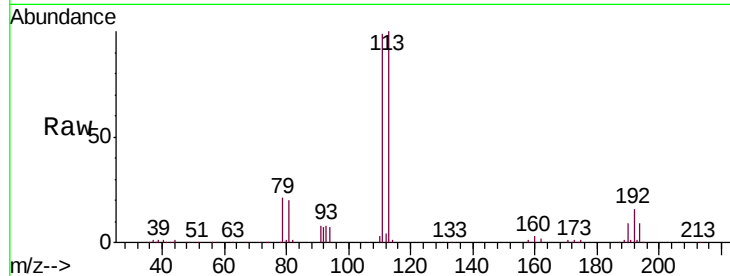




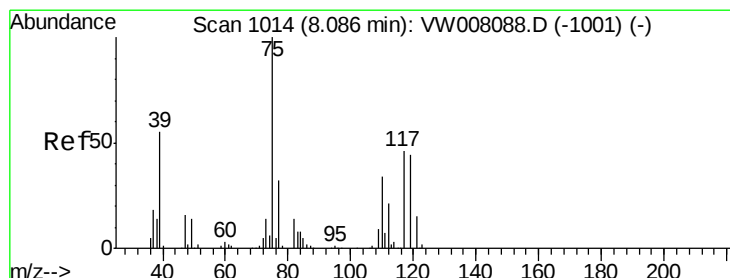
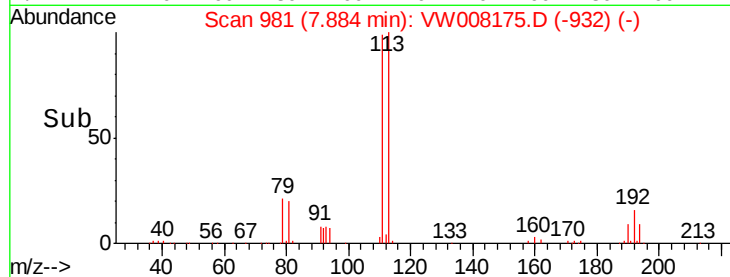
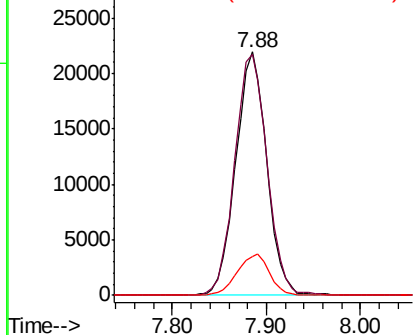
#35  
 Dibromofluoromethane  
 Concen: 54.154 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. -0.00 min  
 Lab File: VW008175.D  
 Acq: 11 Jan 2019 04:40

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
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Tgt Ion: 113 Resp: 50505  
 Ion Ratio Lower Upper  
 113 100  
 111 103.1 81.8 122.8  
 192 17.7 12.8 19.2

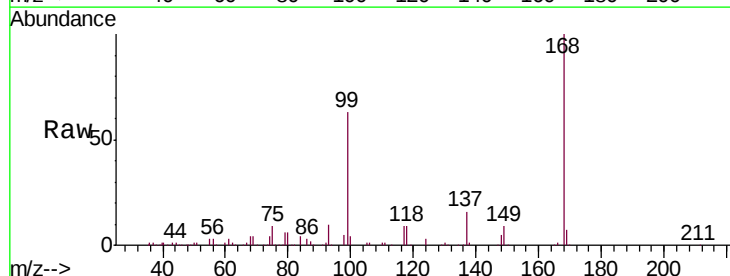


Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V

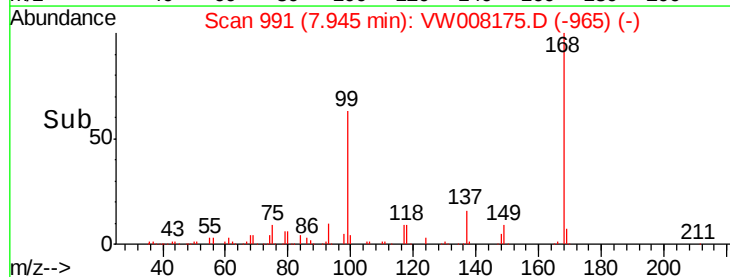
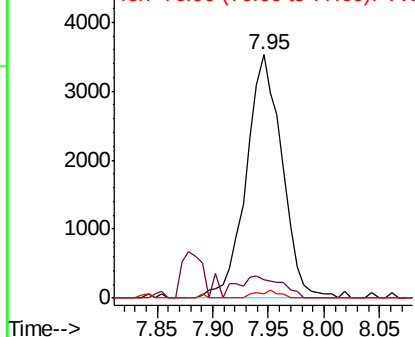


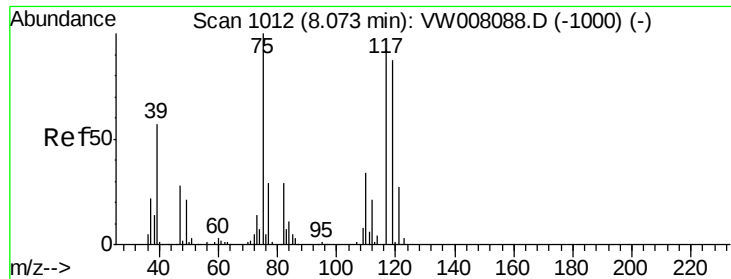
#36  
 1,1-Dichloropropene  
 Concen: 4.787 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.14 min  
 Lab File: VW008175.D  
 Acq: 11 Jan 2019 04:40

Tgt Ion: 75 Resp: 7885  
 Ion Ratio Lower Upper  
 75 100  
 110 11.2 17.1 51.3#  
 77 2.0 25.5 38.3#



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

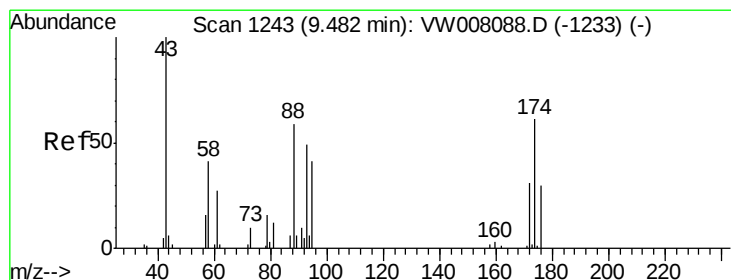
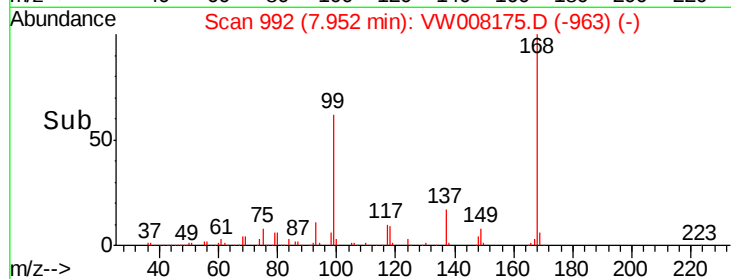
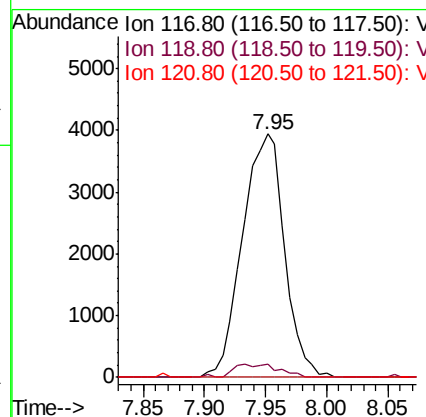
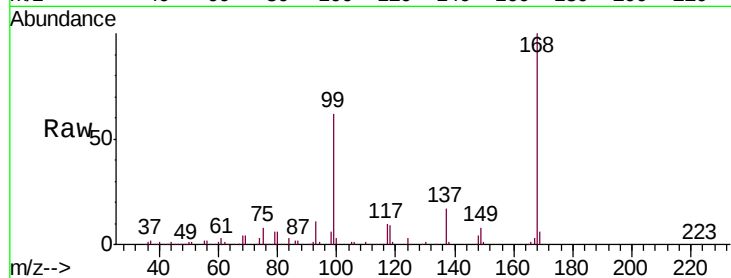




#38  
Carbon Tetrachloride  
Concen: 6.234 ug/l  
RT: 7.95 min Scan# 992  
Delta R.T. -0.12 min  
Lab File: VW008175.D  
Acq: 11 Jan 2019 04:40

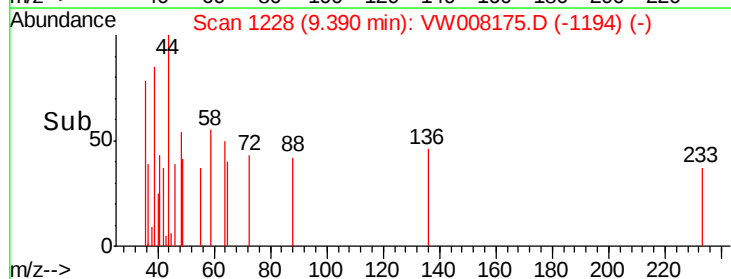
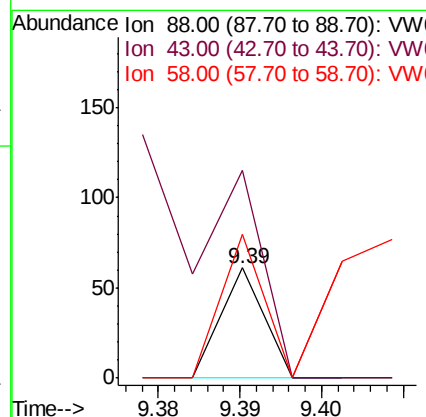
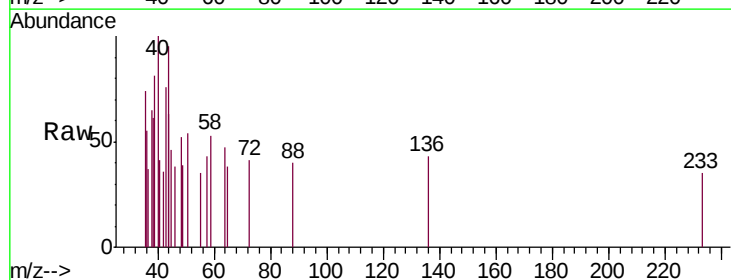
Instrument :  
MSVOA\_W  
ClientSampled :  
TP-16

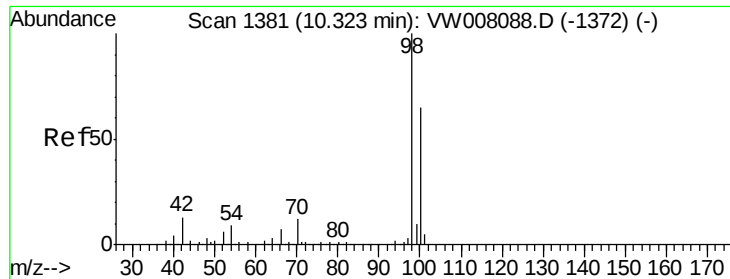
Tgt Ion: 117 Resp: 9399  
Ion Ratio Lower Upper  
117 100  
119 5.6 75.8 113.8#  
121 0.0 23.7 35.5#



#49  
1,4-Dioxane  
Concen: 2.515 ug/l  
RT: 9.39 min Scan# 1228  
Delta R.T. -0.09 min  
Lab File: VW008175.D  
Acq: 11 Jan 2019 04:40

Tgt Ion: 88 Resp: 22  
Ion Ratio Lower Upper  
88 100  
43 0.0 0.0 0.0  
58 131.8 61.7 92.5#





#50

Toluene-d8

Concen: 51.876 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW008175.D

Acq: 11 Jan 2019 04:40

Instrument :

MSVOA\_W

ClientSampleId :

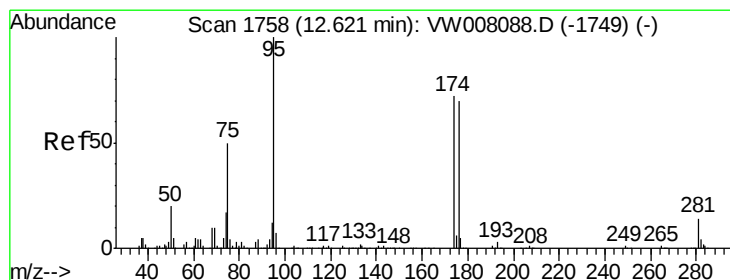
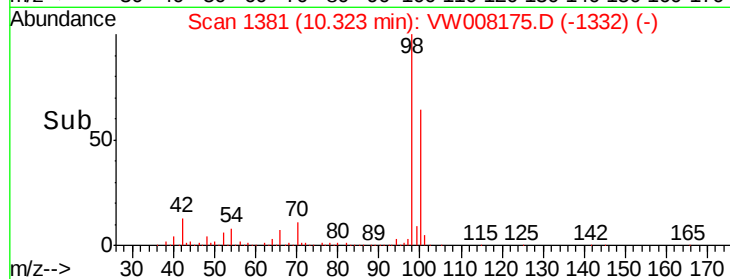
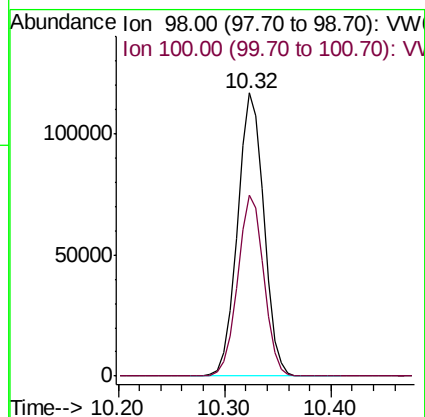
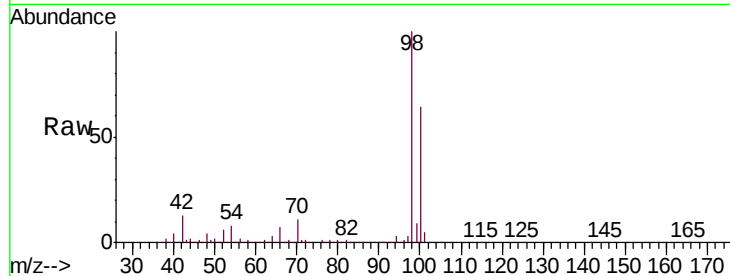
TP-16

Tgt Ion: 98 Resp: 203023

Ion Ratio Lower Upper

98 100

100 63.4 51.7 77.5



#62

4-Bromofluorobenzene

Concen: 42.400 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW008175.D

Acq: 11 Jan 2019 04:40

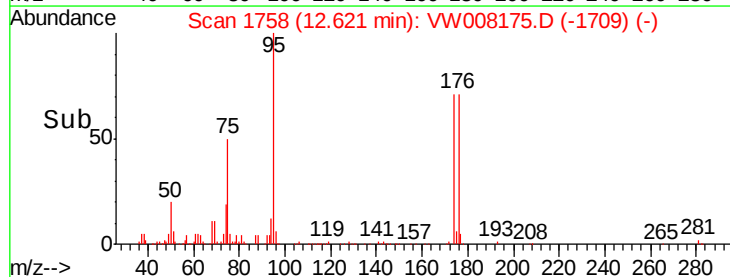
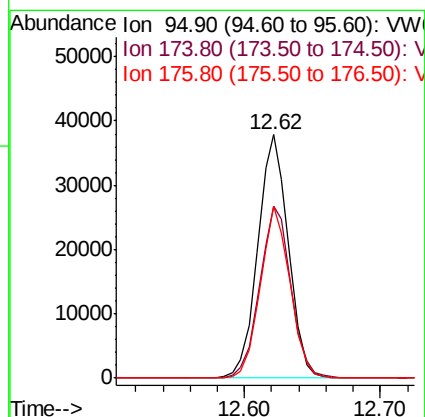
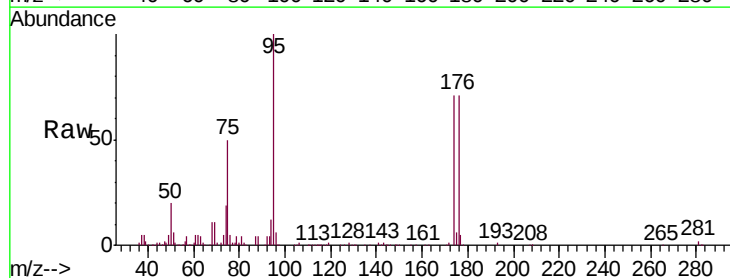
Tgt Ion: 95 Resp: 59488

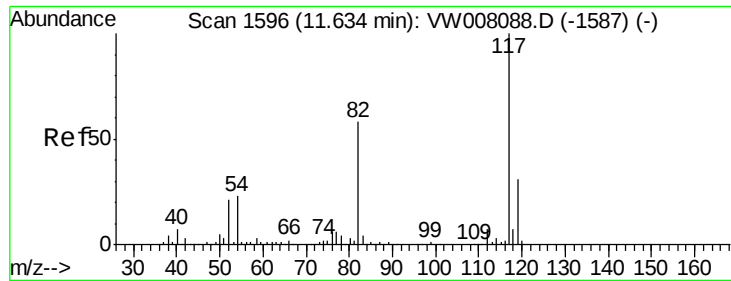
Ion Ratio Lower Upper

95 100

174 72.2 0.0 143.0

176 68.6 0.0 140.2

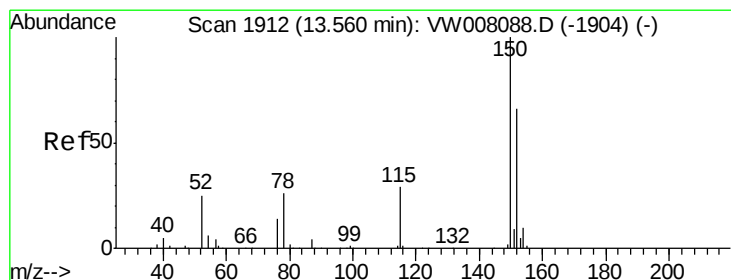
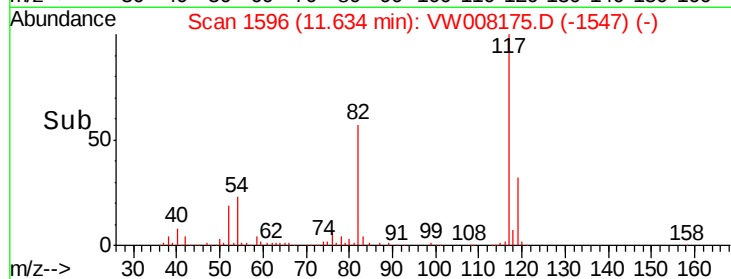
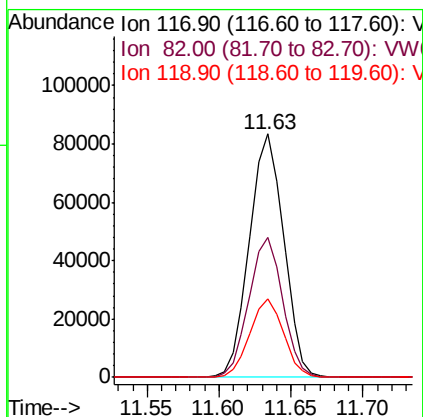
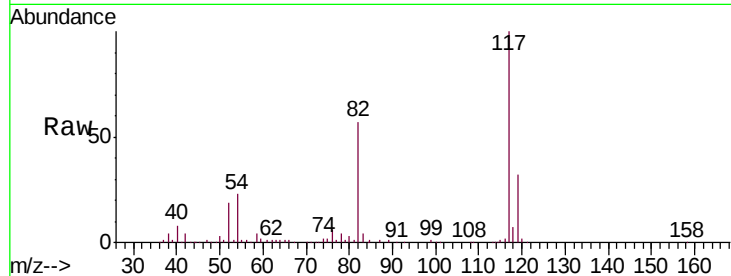




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. -0.00 min  
Lab File: VW008175.D  
Acq: 11 Jan 2019 04:40

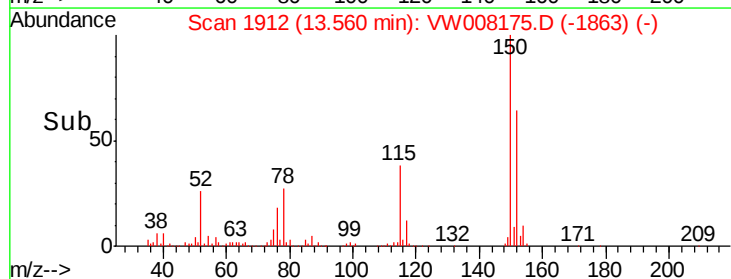
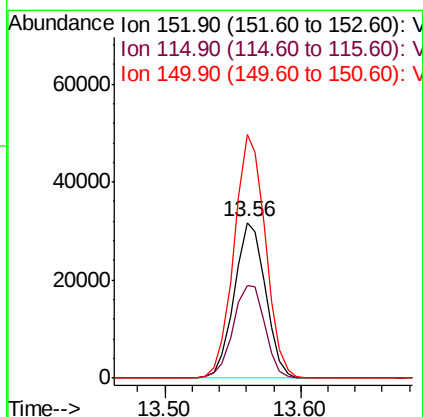
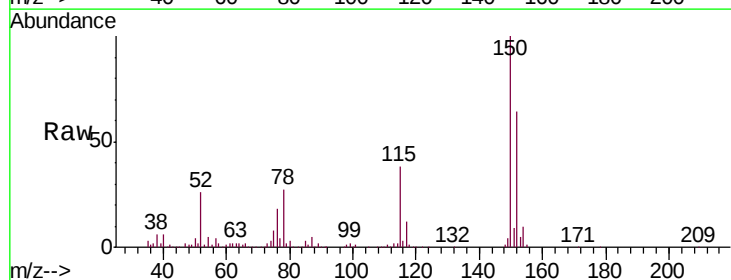
Instrument :  
MSVOA\_W  
ClientSampleId :  
TP-16

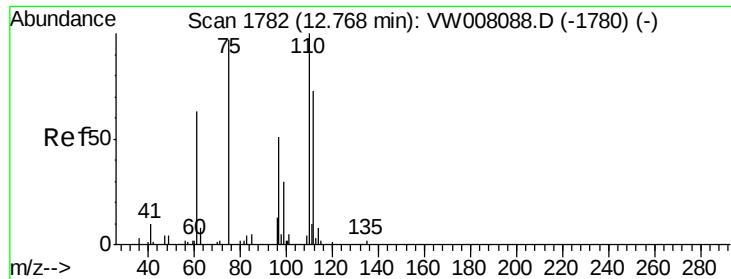
Tgt Ion:117 Resp: 137993  
Ion Ratio Lower Upper  
117 100  
82 57.3 46.4 69.6  
119 32.4 24.7 37.1



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. -0.00 min  
Lab File: VW008175.D  
Acq: 11 Jan 2019 04:40

Tgt Ion:152 Resp: 50552  
Ion Ratio Lower Upper  
152 100  
115 61.0 30.8 92.4  
150 157.3 0.0 350.2

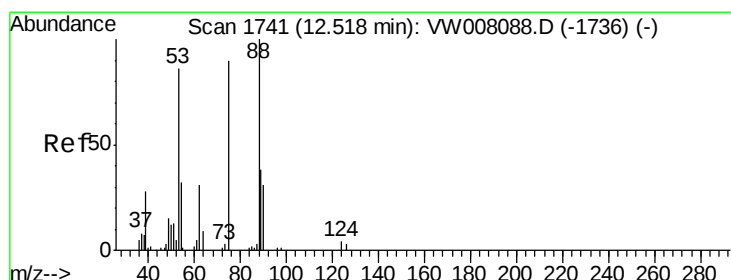
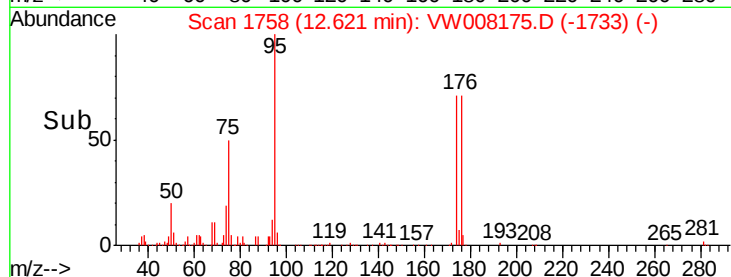
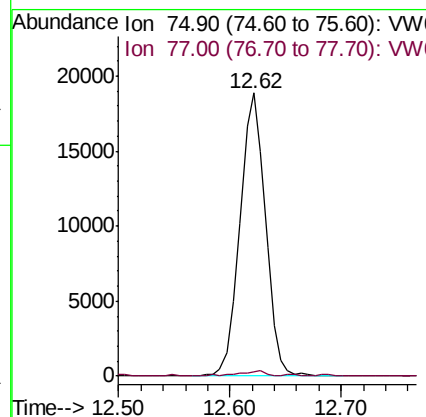
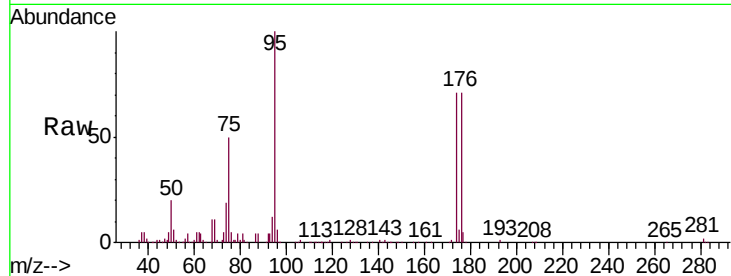




#76  
 1,2,3-Trichloropropane  
 Concen: 65.001 ug/l  
 RT: 12.62 min Scan# 1758  
 Delta R.T. -0.15 min  
 Lab File: VW008175.D  
 Acq: 11 Jan 2019 04:40

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 TP-16

Tgt Ion: 75 Resp: 29955  
 Ion Ratio Lower Upper  
 75 100  
 77 2.1 179.4 538.2#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 151.368 ug/l  
 RT: 12.62 min Scan# 1758  
 Delta R.T. 0.10 min  
 Lab File: VW008175.D  
 Acq: 11 Jan 2019 04:40

Tgt Ion: 75 Resp: 29955  
 Ion Ratio Lower Upper  
 75 100  
 53 0.6 78.8 118.2#  
 89 0.2 35.4 53.2#

