

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD111819\  
 Data File : VD064260.D  
 Acq On : 18 Nov 2019 13:07  
 Operator : VA/SY  
 Sample : K5818-03  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Nov 19 04:36:53 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D110819S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 12 02:43:24 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 507009   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 748697   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 424274   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 100110   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.34  | 65   | 268851   | 64.47 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 128.94% |          |
| 35) Dibromofluoromethane    | 7.92  | 113  | 249111   | 57.96 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 115.92% |          |
| 50) Toluene-d8              | 10.34 | 98   | 713014   | 43.98 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 87.96%  |          |
| 62) 4-Bromofluorobenzene    | 12.64 | 95   | 144515   | 25.74 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 51.48%  |          |

| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 10) Methyl Iodide              | 4.30  | 142  | 891      | 2.199   | ug/l # | 52     |
| 11) Tert butyl alcohol         | 5.26  | 59   | 61386    | 210.771 | ug/l   | 98     |
| 14) Allyl chloride             | 4.67  | 41   | 23968    | 3.182   | ug/l # | 38     |
| 15) Acrylonitrile              | 5.44  | 53   | 5390     | 5.880   | ug/l # | 81     |
| 16) Acetone                    | 4.17  | 43   | 176108   | 178.276 | ug/l   | 98     |
| 20) Methylene Chloride         | 4.97  | 84   | 12675    | 2.540   | ug/l   | 97     |
| 25) 2-Butanone                 | 7.23  | 43   | 33953    | 26.604  | ug/l   | 94     |
| 29) Tetrahydrofuran            | 7.57  | 42   | 3721     | 4.853   | ug/l # | 74     |
| 30) Chloroform                 | 7.71  | 83   | 15775    | 1.900   | ug/l   | 92     |
| 31) Cyclohexane                | 7.98  | 56   | 78404    | 9.580   | ug/l # | 96     |
| 36) 1,1-Dichloropropene        | 7.98  | 75   | 35114    | 5.082   | ug/l # | 50     |
| 37) Ethyl Acetate              | 7.23  | 43   | 33953    | 11.656  | ug/l # | 83     |
| 38) Carbon Tetrachloride       | 7.98  | 117  | 46070    | 6.231   | ug/l # | 15     |
| 39) Methylcyclohexane          | 9.36  | 83   | 176072   | 20.138  | ug/l   | 96     |
| 40) Benzene                    | 8.36  | 78   | 64930    | 3.438   | ug/l   | 91     |
| 43) Isopropyl Acetate          | 8.45  | 43   | 8405     | 1.400   | ug/l # | 53     |
| 48) Methyl methacrylate        | 9.46  | 41   | 13781    | 4.696   | ug/l   | 92     |
| 51) 4-Methyl-2-Pentanone       | 10.24 | 43   | 172100   | 59.794  | ug/l   | 99     |
| 52) Toluene                    | 10.41 | 92   | 953676   | 76.799  | ug/l   | 99     |
| 55) 1,1,2-Trichloroethane      | 10.78 | 97   | 62836    | 18.823  | ug/l # | 22     |
| 56) Ethyl methacrylate         | 10.68 | 69   | 17990    | 3.852   | ug/l # | 1      |
| 59) 2-Hexanone                 | 10.96 | 43   | 69694    | 34.035  | ug/l # | 30     |
| 67) Ethyl Benzene              | 11.75 | 91   | 337458   | 21.624  | ug/l   | 98     |
| 68) m/p-Xylenes                | 11.86 | 106  | 401967   | 67.199  | ug/l   | 98     |
| 69) o-Xylene                   | 12.18 | 106  | 161987   | 29.199  | ug/l   | 97     |
| 70) Styrene                    | 12.18 | 104  | 13933    | 1.439   | ug/l # | 1      |
| 73) Isopropylbenzene           | 12.48 | 105  | 83765    | 11.400  | ug/l   | 98     |
| 74) N-amyl acetate             | 12.27 | 43   | 105996   | 61.085  | ug/l # | 57     |
| 75) 1,1,2,2-Tetrachloroethane  | 12.80 | 83   | 25062    | 22.635  | ug/l # | 26     |
| 76) 1,2,3-Trichloropropane     | 12.88 | 75   | 4089     | 5.071   | ug/l # | 100    |
| 78) n-propylbenzene            | 12.83 | 91   | 202927   | 24.172  | ug/l   | 98     |
| 79) 2-Chlorotoluene            | 12.89 | 91   | 54904    | 11.584  | ug/l # | 41     |
| 80) 1,3,5-Trimethylbenzene     | 12.97 | 105  | 212788   | 35.242  | ug/l   | 99     |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75   | 74409    | 183.301 | ug/l # | 12     |

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MSVOA\_D  
ClientSampleId :

Quant Time: Nov 19 04:36:53 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D110819S.M  
Quant Title : SW846 8260  
QLast Update : Tue Nov 12 02:43:24 2019  
Response via : Initial Calibration

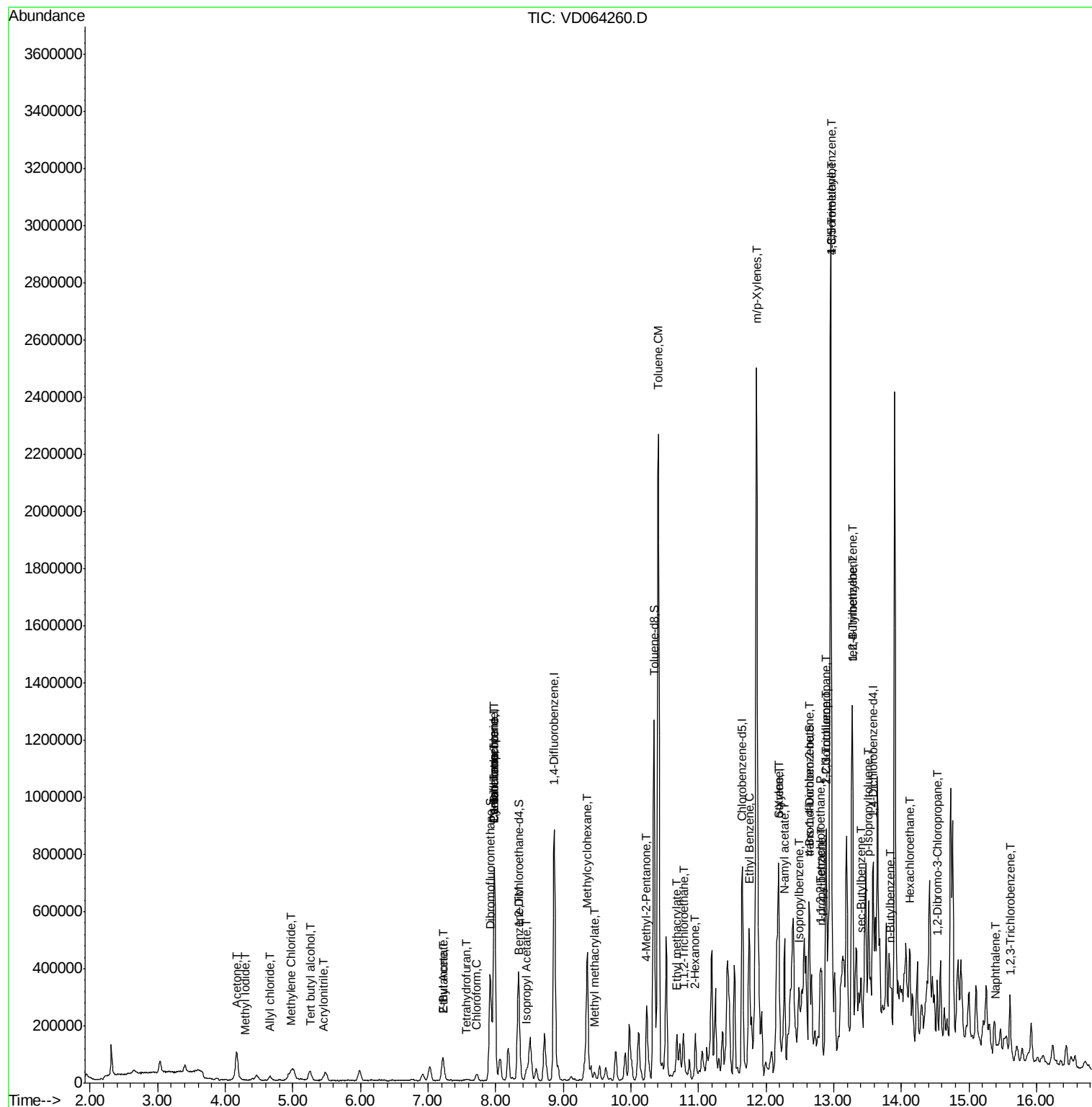
| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 82) 4-Chlorotoluene            | 12.97 | 91   | 24584    | 4.973   | ug/l # | 57       |
| 83) tert-Butylbenzene          | 13.27 | 119  | 81407    | 15.290  | ug/l # | 65       |
| 84) 1,2,4-Trimethylbenzene     | 13.28 | 105  | 664733   | 111.514 | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.41 | 105  | 91921    | 12.855  | ug/l   | 84       |
| 86) p-Isopropyltoluene         | 13.53 | 119  | 133093   | 19.578  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.85 | 91   | 103830   | 16.905  | ug/l # | 72       |
| 90) Hexachloroethane           | 14.13 | 117  | 10736    | 8.545   | ug/l # | 4        |
| 92) 1,2-Dibromo-3-Chloropropan | 14.54 | 75   | 613      | 3.097   | ug/l # | 28       |
| 95) Naphthalene                | 15.41 | 128  | 20946    | 5.906   | ug/l   | 96       |
| 96) 1,2,3-Trichlorobenzene     | 15.63 | 180  | 2048     | 1.114   | ug/l # | 12       |

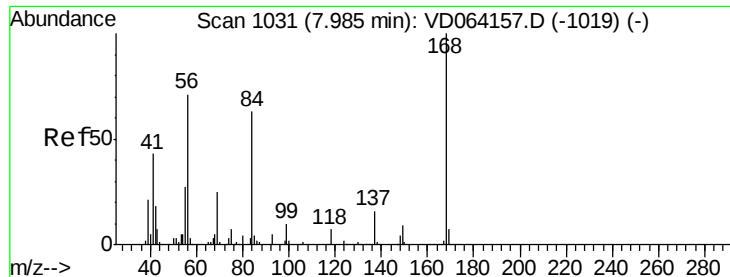
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Nov 12 02:43:24 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD064260.D

Acq: 18 Nov 2019 13:07

Instrument :

MSVOA\_D

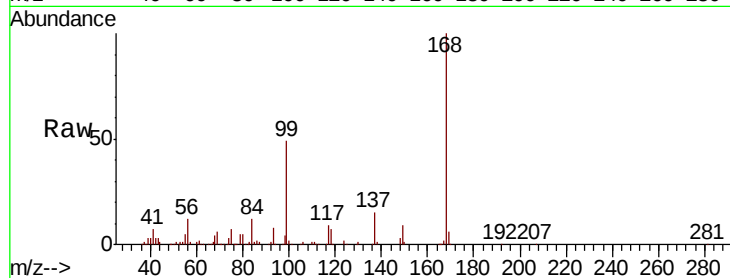
ClientSampled :

Tot Ion:168 Resp: 507009

Ion Ratio Lower Upper

168 100

99 48.9 41.6 62.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): V

7.98

250000

200000

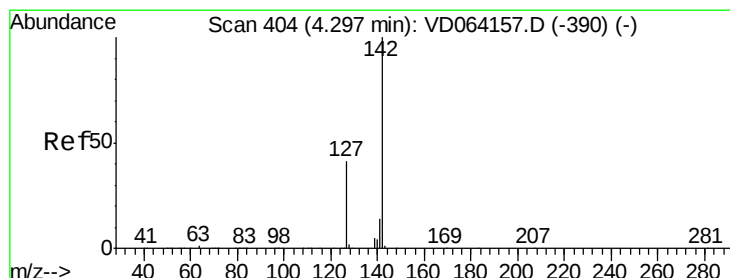
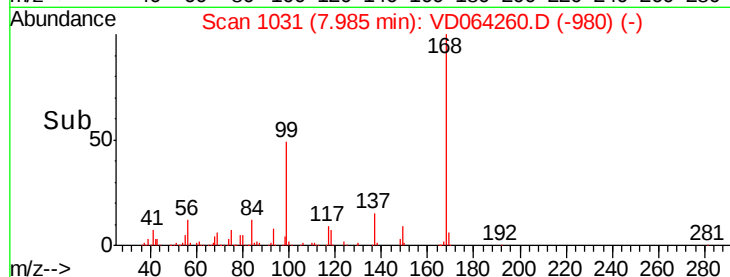
150000

100000

50000

0

Time-->



#10

Methyl Iodide

Concen: 2.199 ug/l

RT: 4.30 min Scan# 404

Delta R.T. 0.00 min

Lab File: VD064260.D

Acq: 18 Nov 2019 13:07

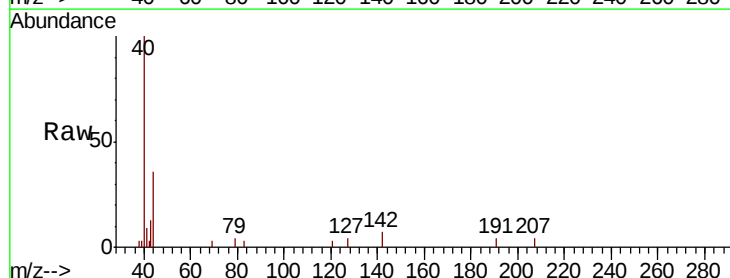
Tgt Ion:142 Resp: 891

Ion Ratio Lower Upper

142 100

127 9.8 34.4 51.6#

141 0.0 11.2 16.8#



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

500

400

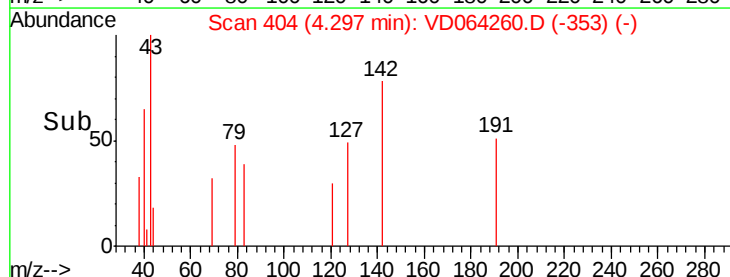
300

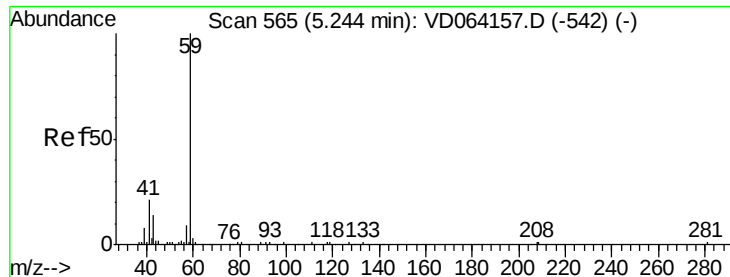
200

100

0

Time-->



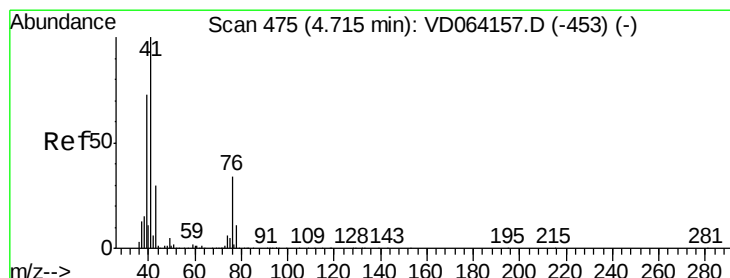
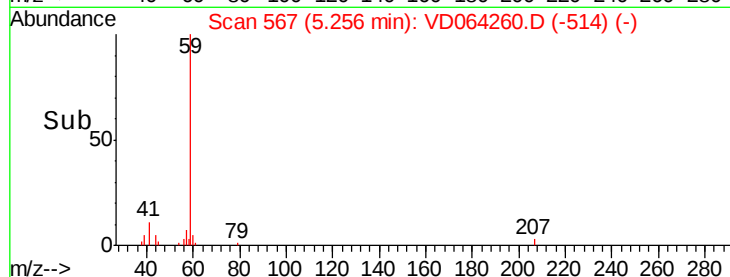
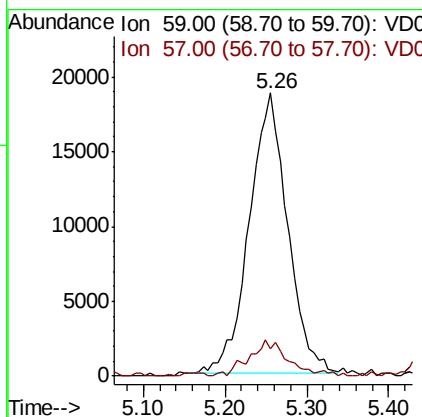
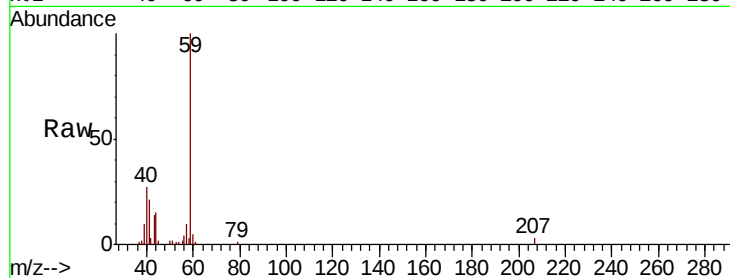


#11

Tert butyl alcohol  
 Concen: 210.771 ug/l  
 RT: 5.26 min Scan# 567  
 Delta R.T. 0.01 min  
 Lab File: VD064260.D  
 Acq: 18 Nov 2019 13:07

Instrument :  
 MSVOA\_D  
 ClientSampleId :

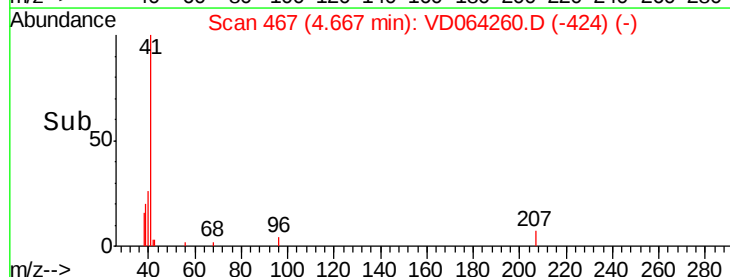
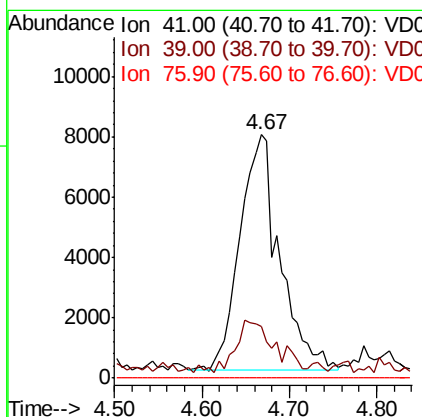
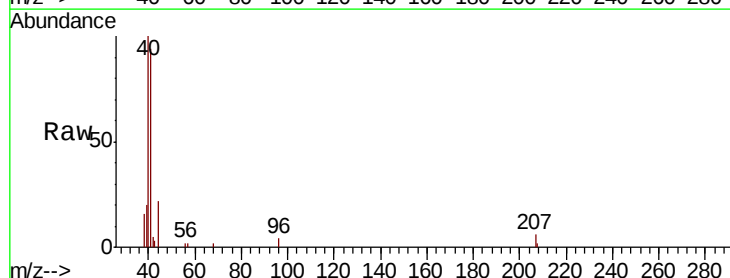
Tot Ion: 59 Resp: 61386  
 Ion Ratio Lower Upper  
 59 100  
 57 12.4 9.4 14.2

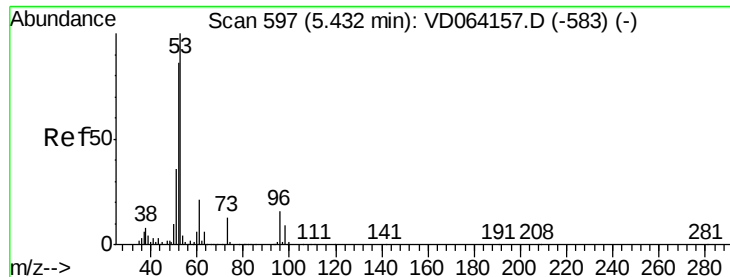


#14

Allyl chloride  
 Concen: 3.182 ug/l  
 RT: 4.67 min Scan# 467  
 Delta R.T. -0.05 min  
 Lab File: VD064260.D  
 Acq: 18 Nov 2019 13:07

Tgt Ion: 41 Resp: 23968  
 Ion Ratio Lower Upper  
 41 100  
 39 18.7 57.5 86.3#  
 76 0.0 26.8 40.2#





#15

Acrylonitrile

Concen: 5.880 ug/l

RT: 5.44 min Scan# 599

Delta R.T. 0.01 min

Lab File: VD064260.D

Acq: 18 Nov 2019 13:07

Instrument :

MSVOA\_D

ClientSampled :

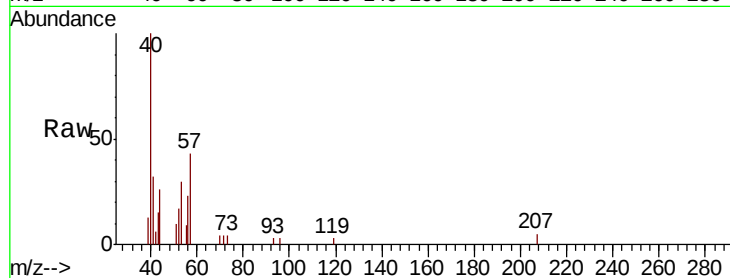
Tot Ion: 53 Resp: 5390

Ion Ratio Lower Upper

53 100

52 69.3 66.7 100.1

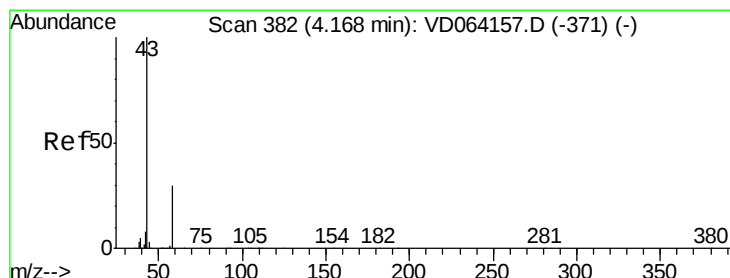
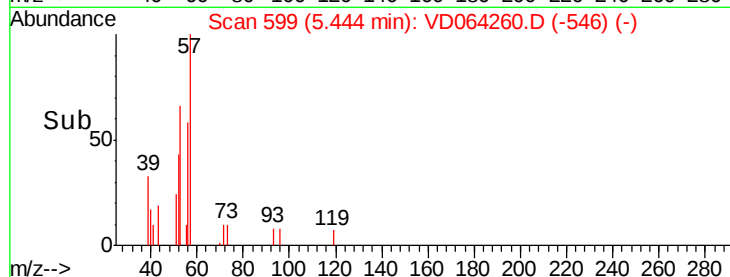
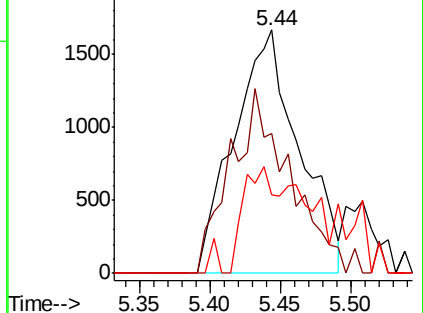
51 22.4 30.6 46.0#



Abundance Ion 53.00 (52.70 to 53.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

Ion 51.00 (50.70 to 51.70): VDC



#16

Acetone

Concen: 178.276 ug/l

RT: 4.17 min Scan# 382

Delta R.T. -0.00 min

Lab File: VD064260.D

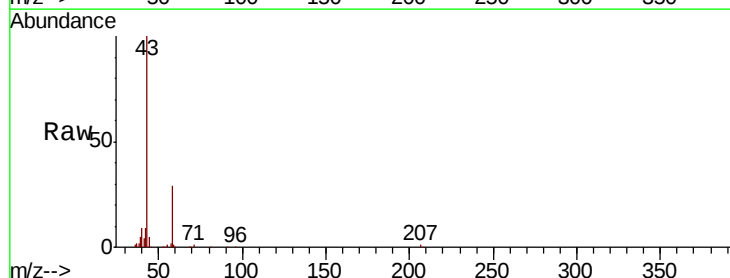
Acq: 18 Nov 2019 13:07

Tgt Ion: 43 Resp: 176108

Ion Ratio Lower Upper

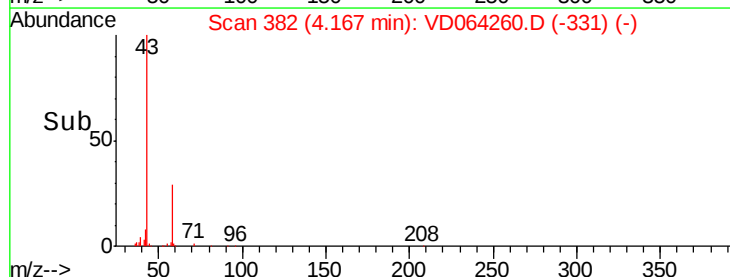
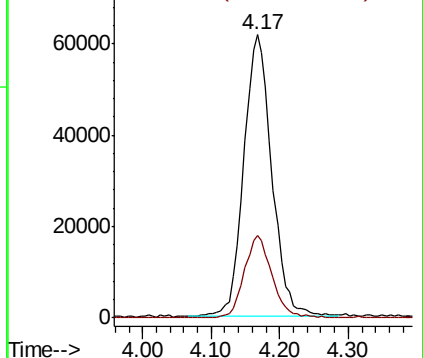
43 100

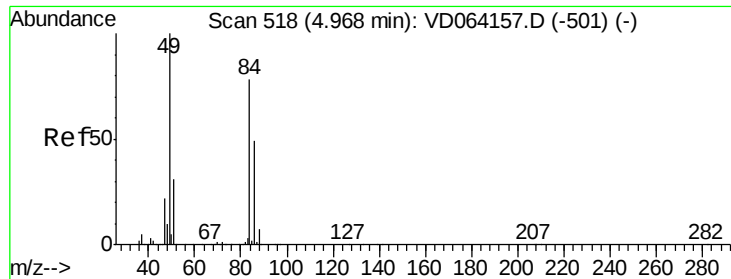
58 29.1 24.1 36.1



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

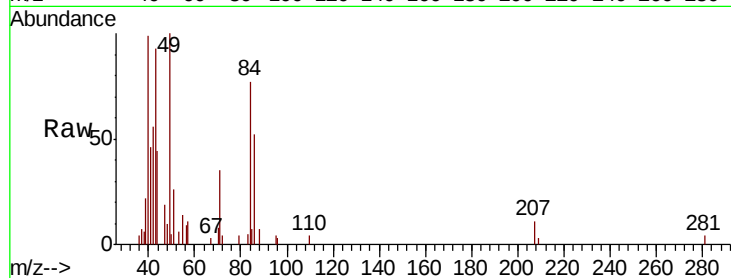




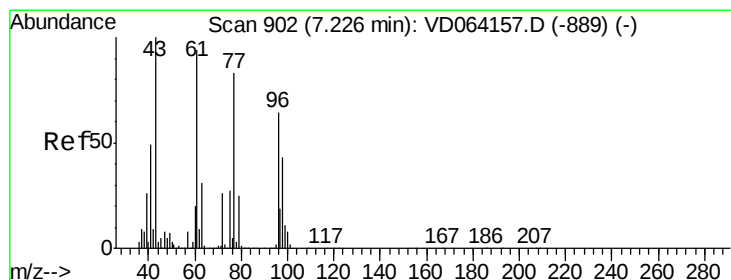
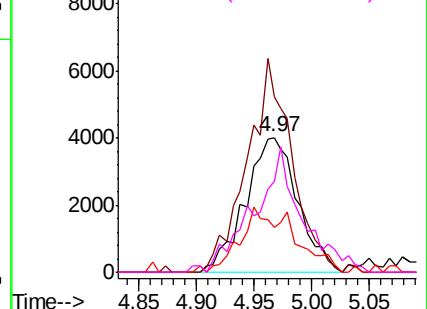
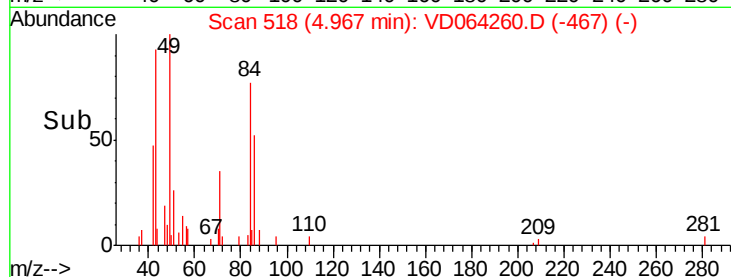
#20  
Methylene Chloride  
Concen: 2.540 ug/l  
RT: 4.97 min Scan# 518  
Delta R.T. -0.00 min  
Lab File: VD064260.D  
Acq: 18 Nov 2019 13:07

Instrument :  
MSVOA\_D  
ClientSampled :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 84    | Resp: | 12675 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 130.0 | 102.1 | 153.1 |
| 51       | 33.3  | 32.2  | 48.2  |
| 86       | 62.8  | 49.9  | 74.9  |

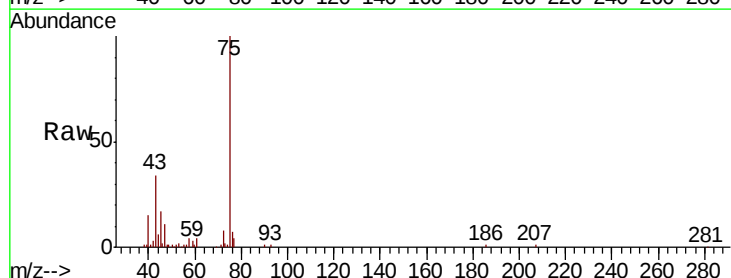


Abundance Ion 83.90 (83.60 to 84.60): VDC  
Ion 48.90 (48.60 to 49.60): VDC  
Ion 50.90 (50.60 to 51.60): VDC  
Ion 85.90 (85.60 to 86.60): VDC

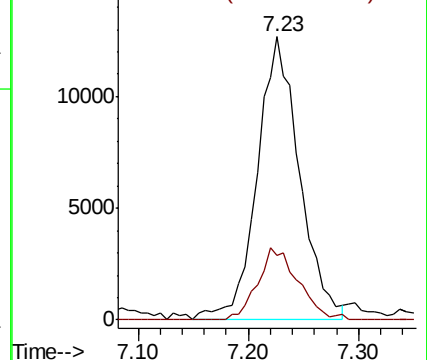
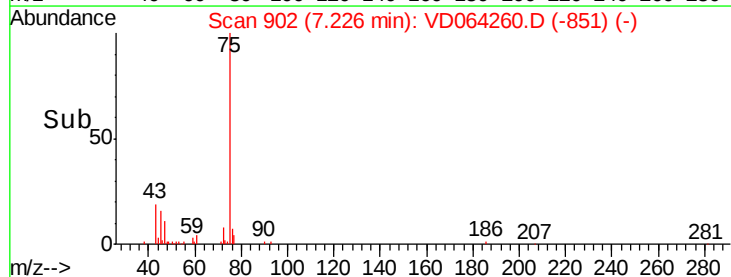


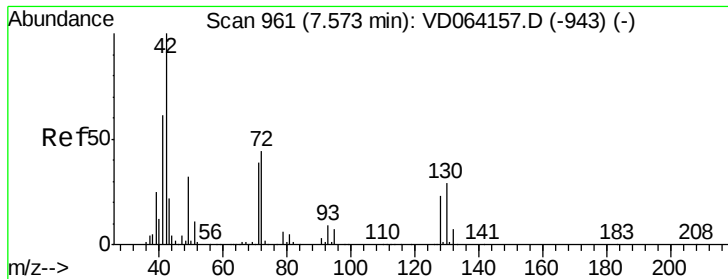
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2-Butanone  
Concen: 26.604 ug/l  
RT: 7.23 min Scan# 902  
Delta R.T. -0.00 min  
Lab File: VD064260.D  
Acq: 18 Nov 2019 13:07

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 33953 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 22.7  | 20.6  | 30.8  |



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

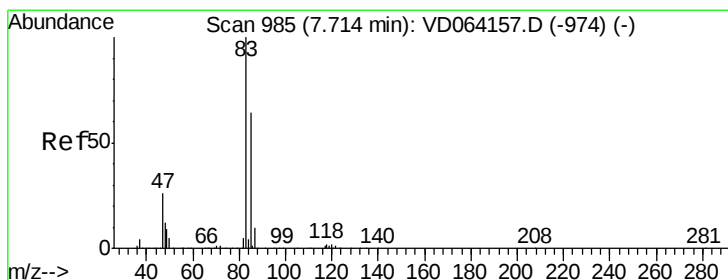
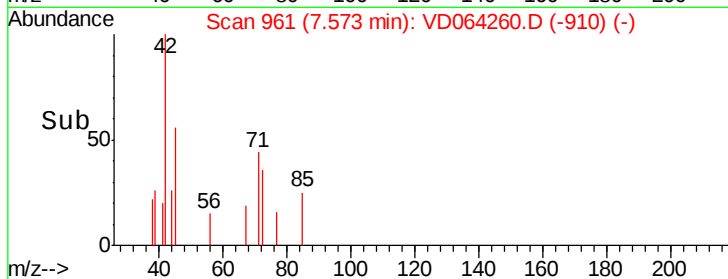
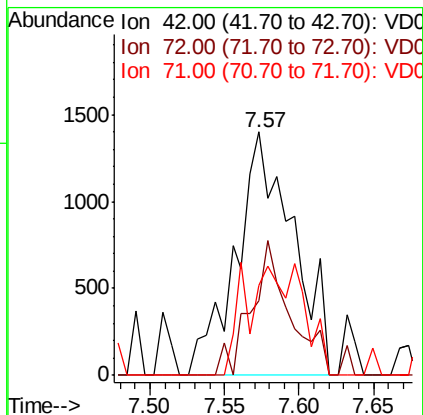
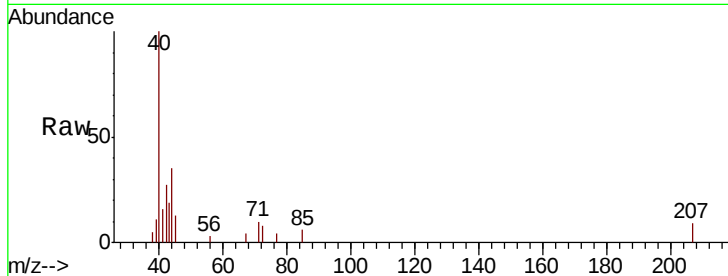




#29  
Tetrahydrofuran  
Concen: 4.853 ug/l  
RT: 7.57 min Scan# 961  
Delta R.T. -0.00 min  
Lab File: VD064260.D  
Acq: 18 Nov 2019 13:07

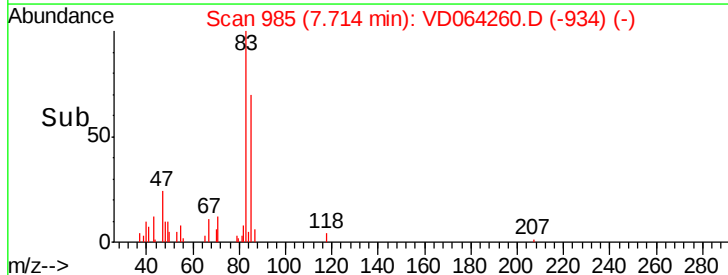
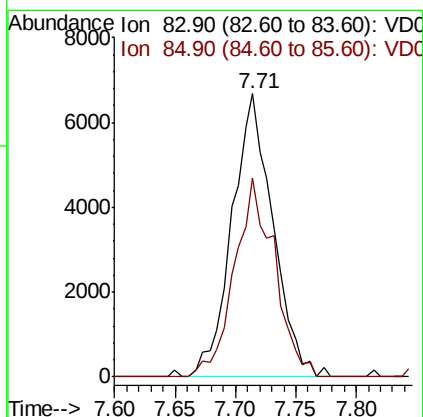
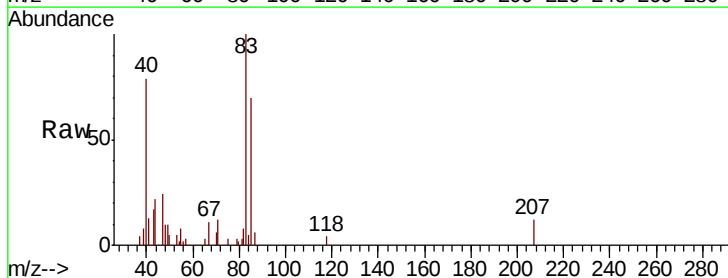
Instrument :  
MSVOA\_D  
ClientSampleId :

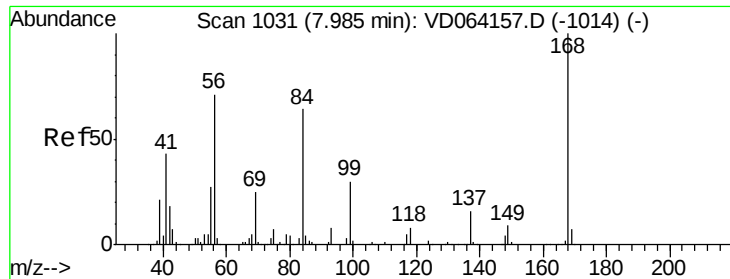
Tot Ion: 42 Resp: 3721  
Ion Ratio Lower Upper  
42 100  
72 37.5 33.4 50.2  
71 10.6 31.0 46.4#



#30  
Chloroform  
Concen: 1.900 ug/l  
RT: 7.71 min Scan# 985  
Delta R.T. -0.00 min  
Lab File: VD064260.D  
Acq: 18 Nov 2019 13:07

Tgt Ion: 83 Resp: 15775  
Ion Ratio Lower Upper  
83 100  
85 70.1 51.4 77.0

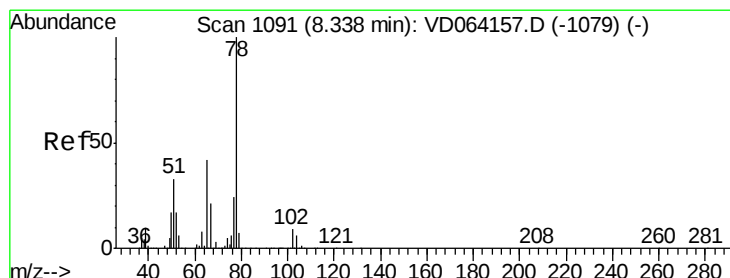
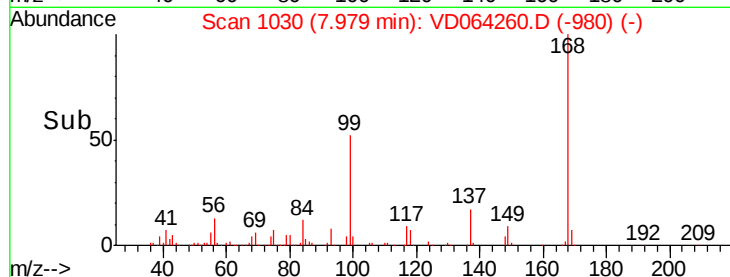
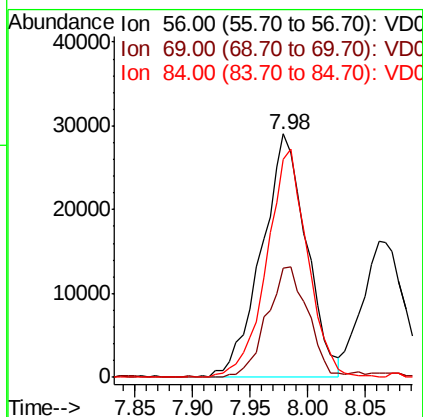
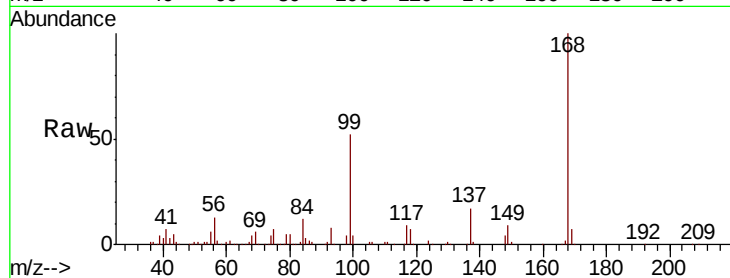




#31  
Cyclohexane  
Concen: 9.580 ug/l  
RT: 7.98 min Scan# 1030  
Delta R.T. -0.01 min  
Lab File: VD064260.D  
Acq: 18 Nov 2019 13:07

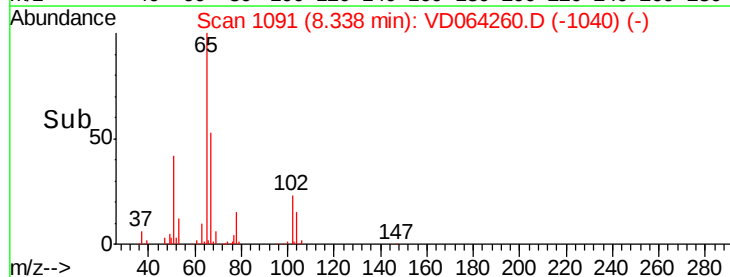
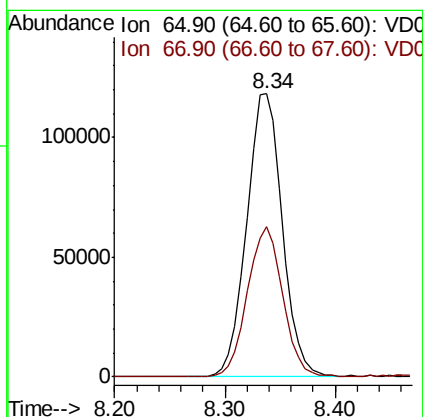
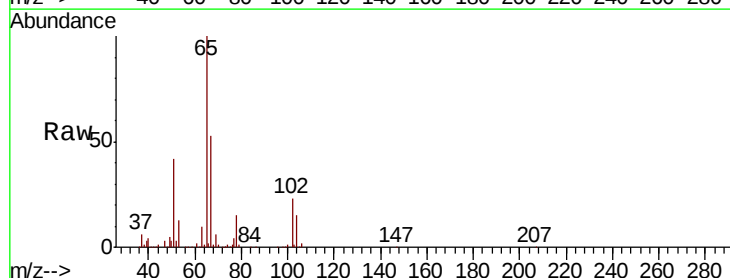
Instrument :  
MSVOA\_D  
ClientSampled :

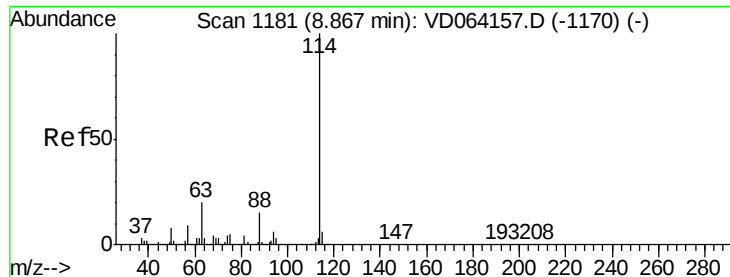
Tot Ion: 56 Resp: 78404  
Ion Ratio Lower Upper  
56 100  
69 44.2 28.2 42.4#  
84 89.5 71.8 107.6



#33  
1,2-Dichloroethane-d4  
Concen: 64.475 ug/l  
RT: 8.34 min Scan# 1091  
Delta R.T. -0.00 min  
Lab File: VD064260.D  
Acq: 18 Nov 2019 13:07

Tgt Ion: 65 Resp: 268851  
Ion Ratio Lower Upper  
65 100  
67 52.6 0.0 104.4

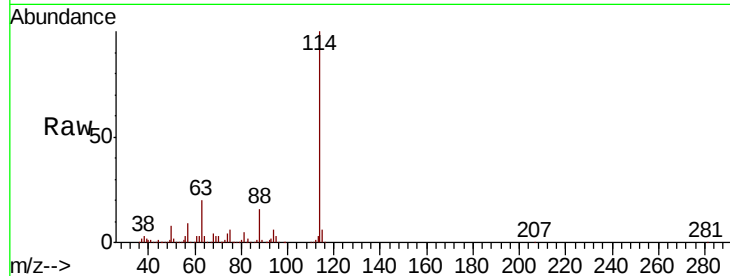




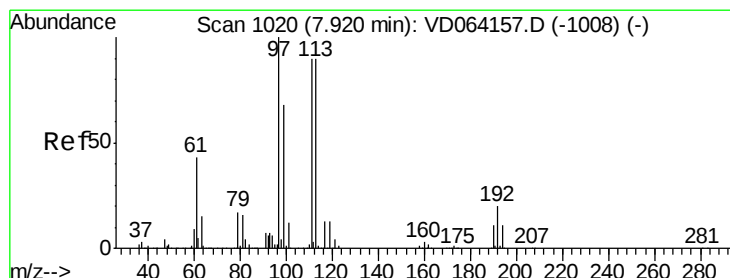
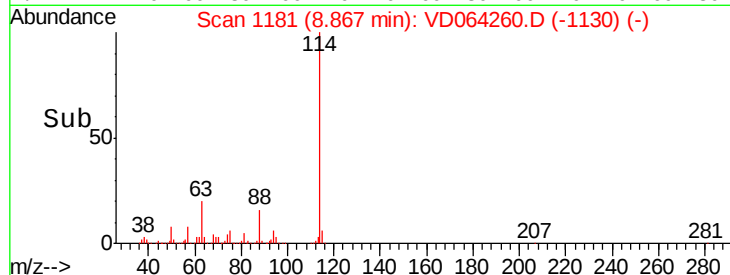
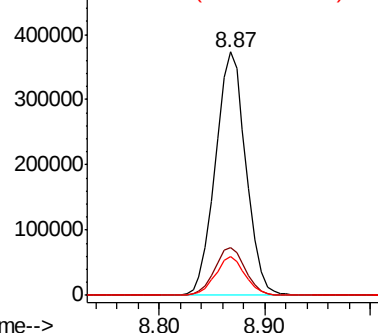
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.87 min Scan# 1181  
 Delta R.T. -0.00 min  
 Lab File: VD064260.D  
 Acq: 18 Nov 2019 13:07

Instrument :  
 MSVOA\_D  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 19.9  | 0.0   | 40.0  |
| 88      | 15.7  | 0.0   | 30.2  |

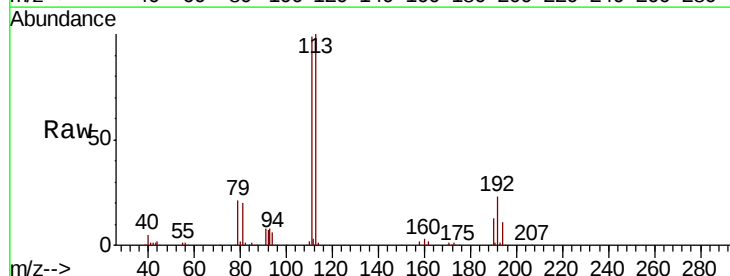


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): V  
 Ion 87.90 (87.60 to 88.60): V

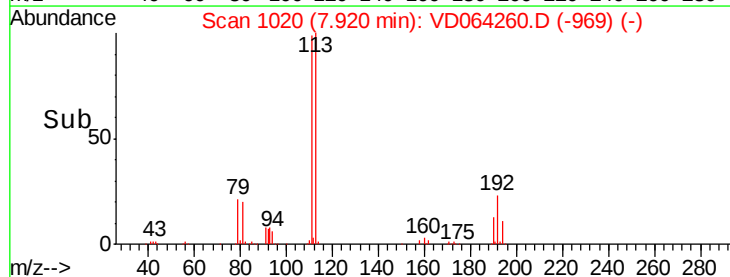
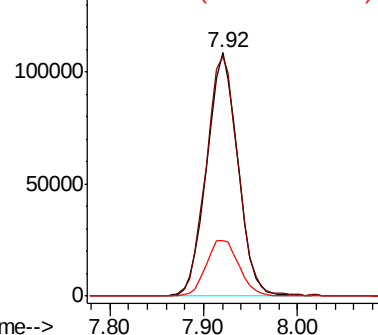


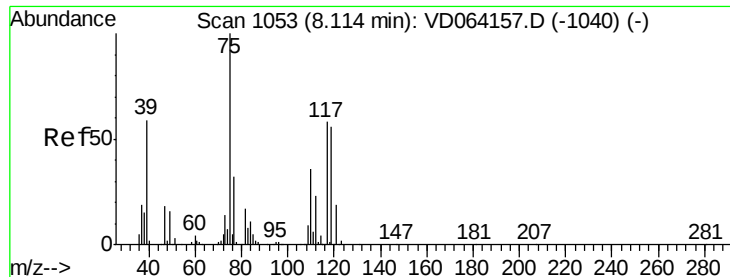
#35  
 Dibromofluoromethane  
 Concen: 57.965 ug/l  
 RT: 7.92 min Scan# 1020  
 Delta R.T. -0.00 min  
 Lab File: VD064260.D  
 Acq: 18 Nov 2019 13:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.8 | 81.5  | 122.3 |
| 192     | 24.2  | 18.8  | 28.2  |



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: 5.082 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.13 min

Lab File: VD064260.D

Acq: 18 Nov 2019 13:07

Instrument :

MSVOA\_D

ClientSampleId :

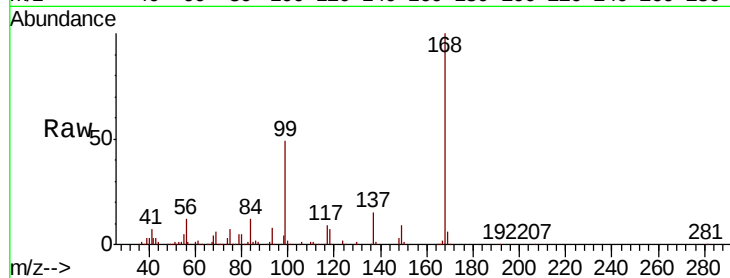
Tot Ion: 75 Resp: 35114

Ion Ratio Lower Upper

75 100

110 8.6 18.3 54.9#

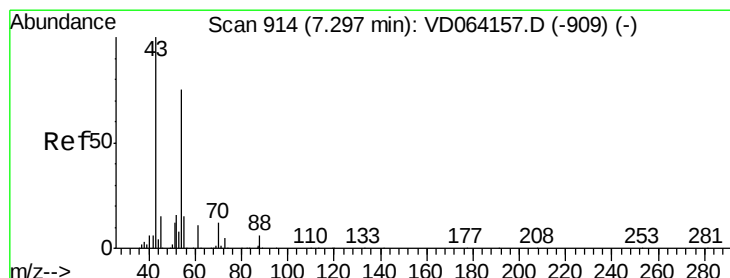
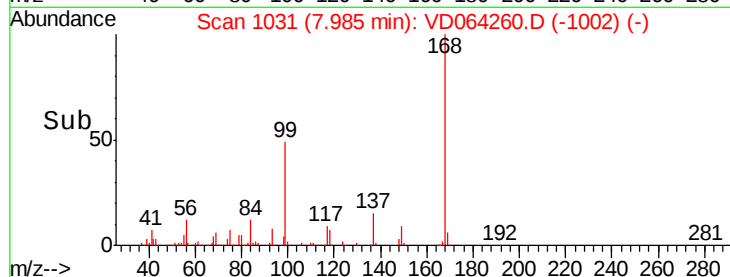
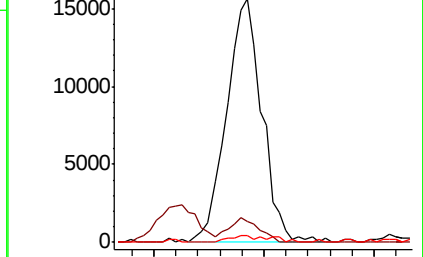
77 2.2 25.0 37.6#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 109.90 (109.60 to 110.60): VDC

Ion 76.90 (76.60 to 77.60): VDC



#37

Ethyl Acetate

Concen: 11.656 ug/l

RT: 7.23 min Scan# 902

Delta R.T. -0.07 min

Lab File: VD064260.D

Acq: 18 Nov 2019 13:07

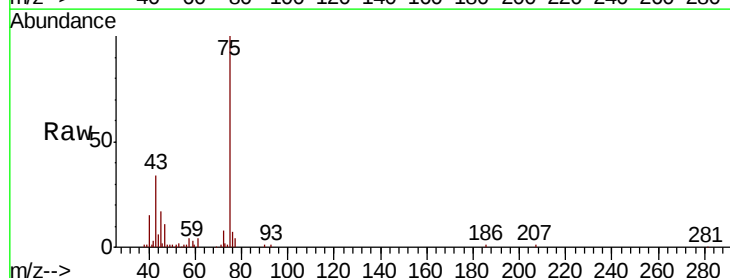
Tgt Ion: 43 Resp: 33953

Ion Ratio Lower Upper

43 100

61 9.5 10.2 15.2#

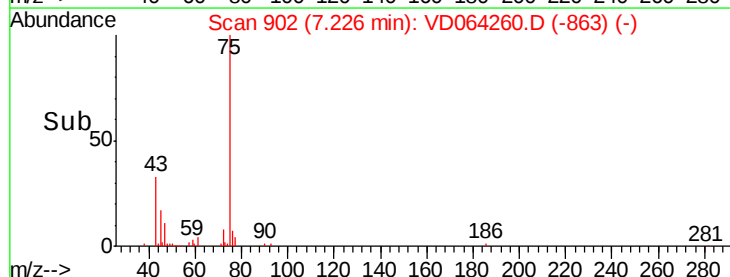
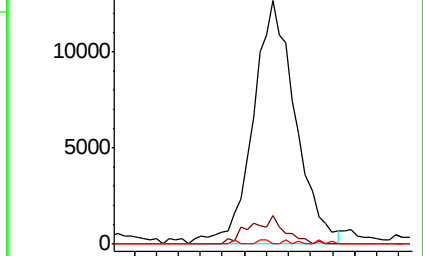
70 0.4 8.5 12.7#

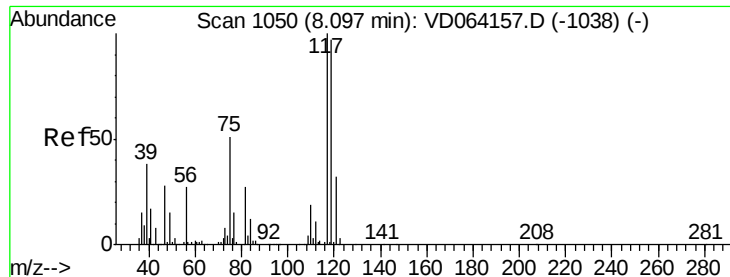


Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 70.00 (69.70 to 70.70): VDC

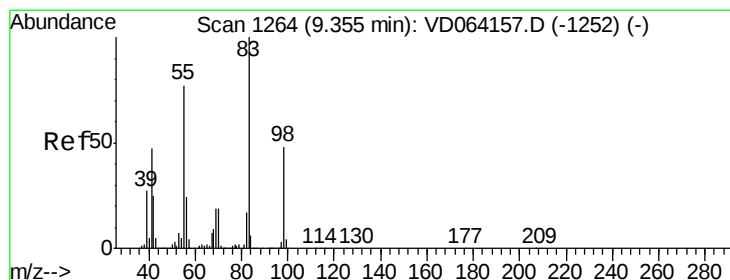
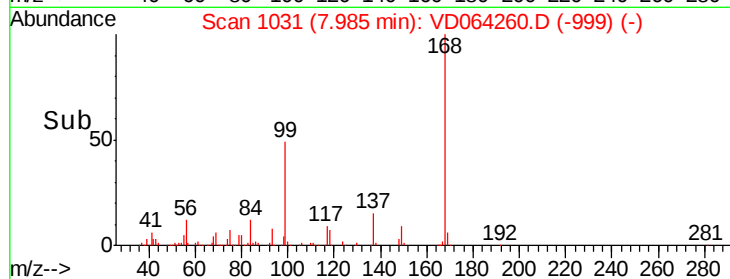
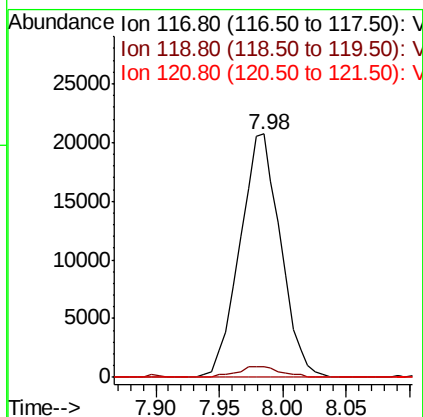
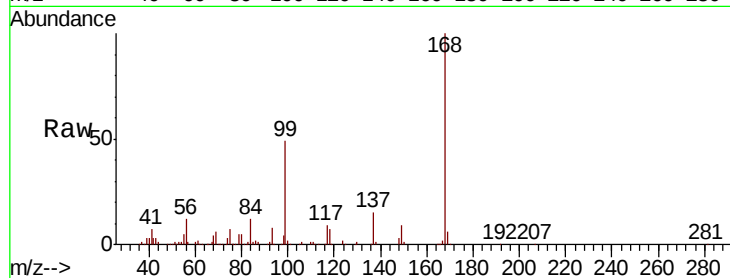




#38  
Carbon Tetrachloride  
Concen: 6.231 ug/l  
RT: 7.98 min Scan# 1031  
Delta R.T. -0.11 min  
Lab File: VD064260.D  
Acq: 18 Nov 2019 13:07

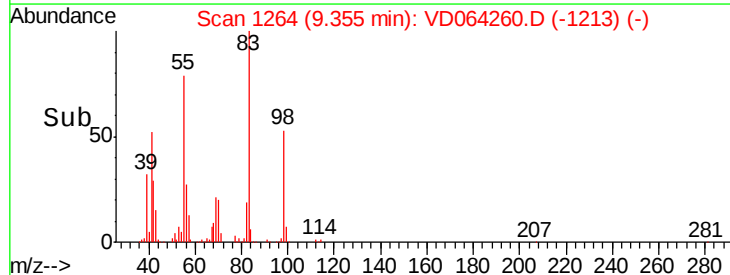
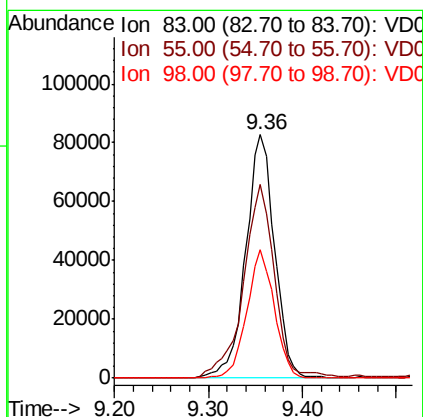
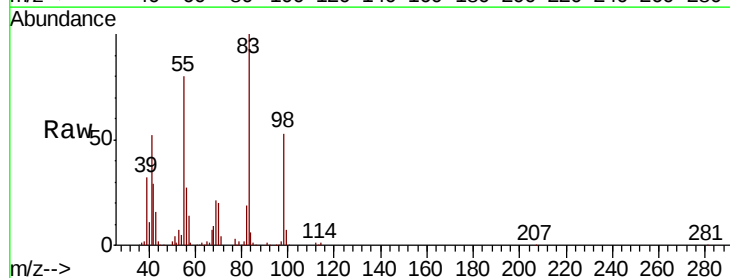
Instrument :  
MSVOA\_D  
ClientSampled :

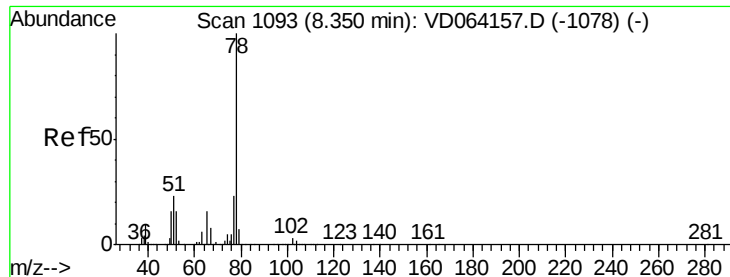
Tot Ion:117 Resp: 46070  
Ion Ratio Lower Upper  
117 100  
119 4.3 77.2 115.8#  
121 0.0 25.5 38.3#



#39  
Methylcyclohexane  
Concen: 20.138 ug/l  
RT: 9.36 min Scan# 1264  
Delta R.T. -0.00 min  
Lab File: VD064260.D  
Acq: 18 Nov 2019 13:07

Tgt Ion: 83 Resp: 176072  
Ion Ratio Lower Upper  
83 100  
55 79.3 61.7 92.5  
98 52.8 38.6 58.0





#40

Benzene

Concen: 3.438 ug/l

RT: 8.36 min Scan# 1094

Delta R.T. 0.01 min

Lab File: VD064260.D

Acq: 18 Nov 2019 13:07

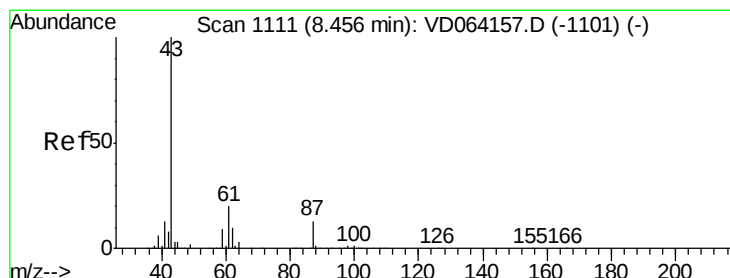
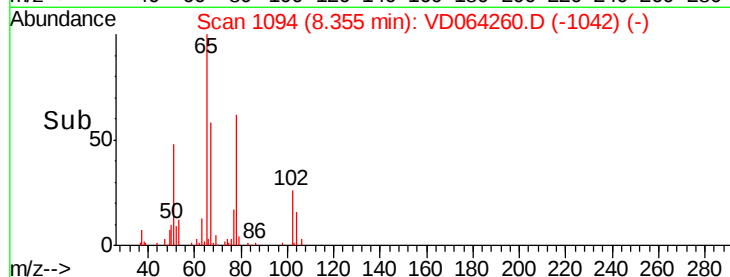
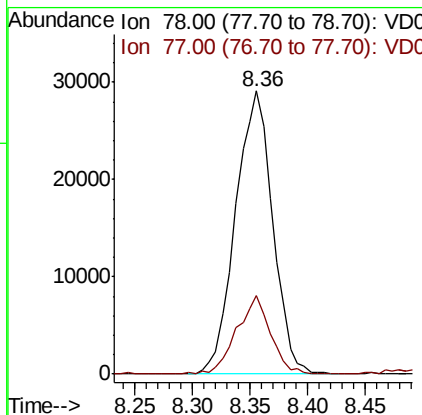
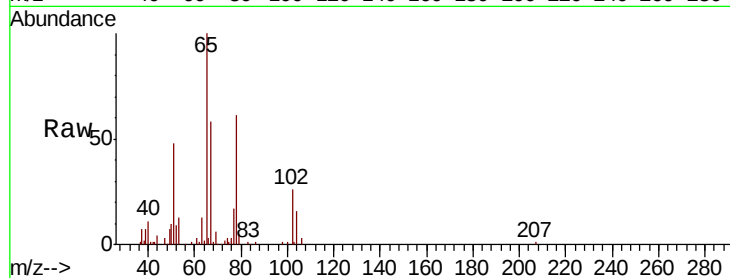
Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion: 78 Resp: 64930

Ion Ratio Lower Upper

78 100

77 27.7 18.6 28.0



#43

Isopropyl Acetate

Concen: 1.400 ug/l

RT: 8.45 min Scan# 1110

Delta R.T. -0.01 min

Lab File: VD064260.D

Acq: 18 Nov 2019 13:07

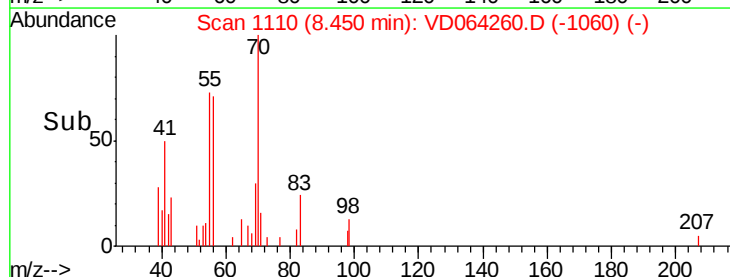
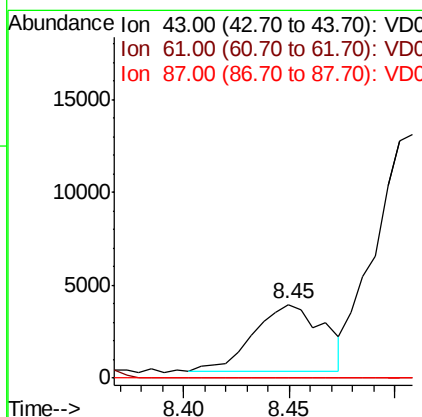
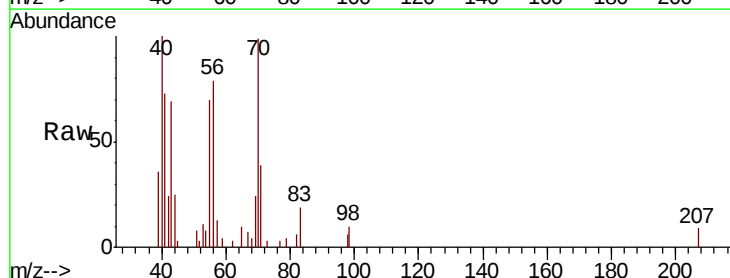
Tgt Ion: 43 Resp: 8405

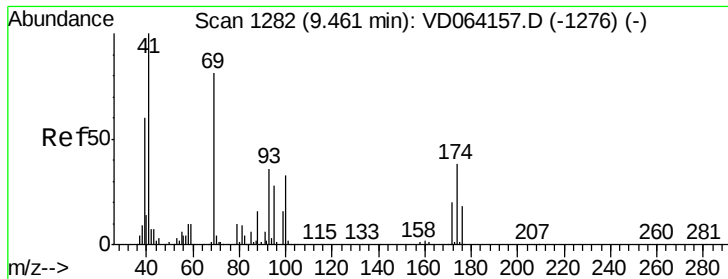
Ion Ratio Lower Upper

43 100

61 0.0 22.9 34.3#

87 0.0 10.2 15.2#

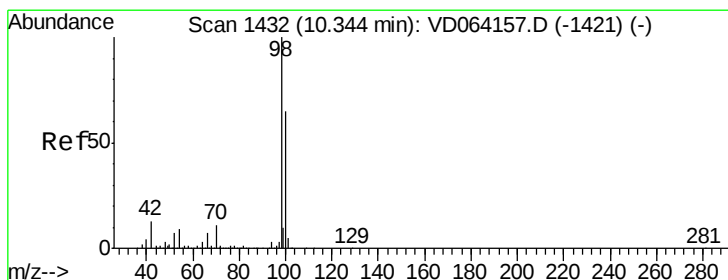
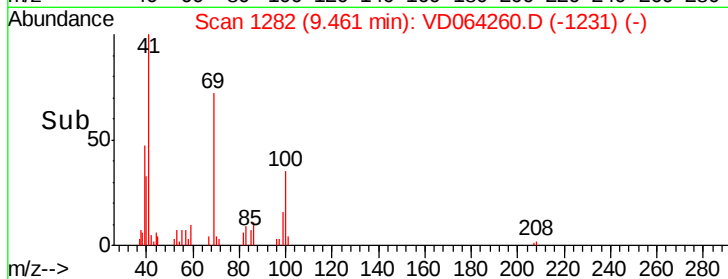
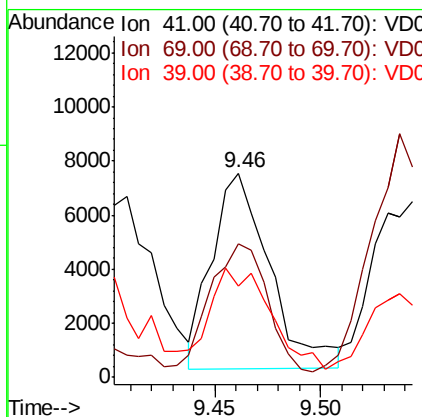
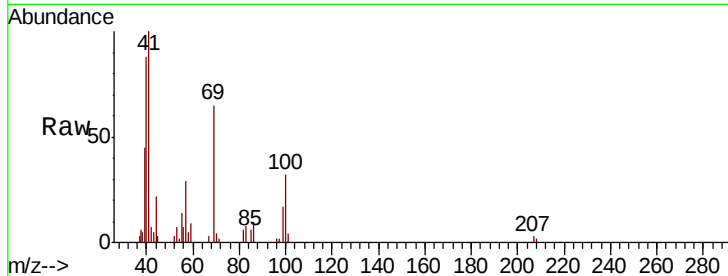




#48  
Methyl methacrylate  
Concen: 4.696 ug/l  
RT: 9.46 min Scan# 1282  
Delta R.T. -0.00 min  
Lab File: VD064260.D  
Acq: 18 Nov 2019 13:07

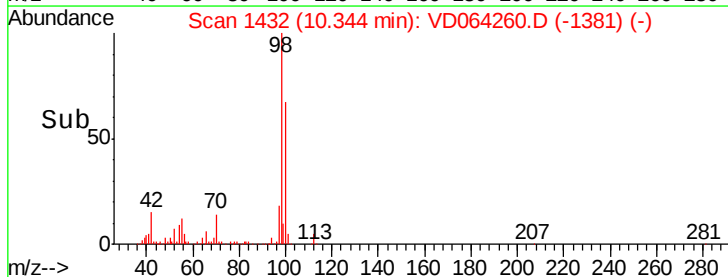
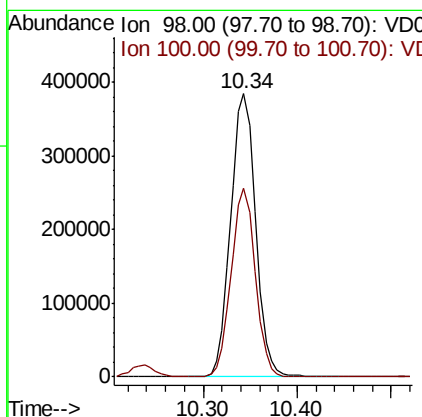
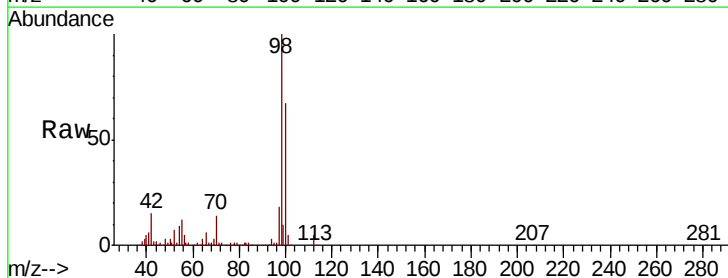
Instrument :  
MSVOA\_D  
ClientSampleId :

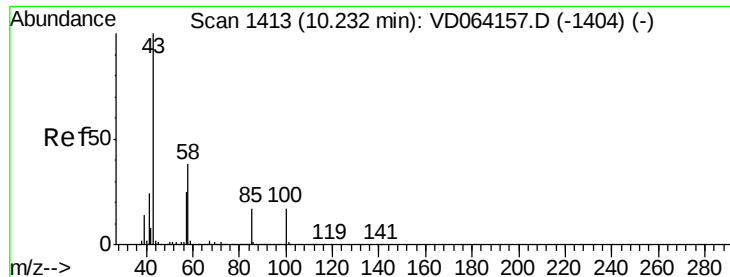
Tot Ion: 41 Resp: 13781  
Ion Ratio Lower Upper  
41 100  
69 70.9 64.6 97.0  
39 63.6 48.2 72.2



#50  
Toluene-d8  
Concen: 43.979 ug/l  
RT: 10.34 min Scan# 1432  
Delta R.T. -0.00 min  
Lab File: VD064260.D  
Acq: 18 Nov 2019 13:07

Tgt Ion: 98 Resp: 713014  
Ion Ratio Lower Upper  
98 100  
100 63.9 52.6 78.8

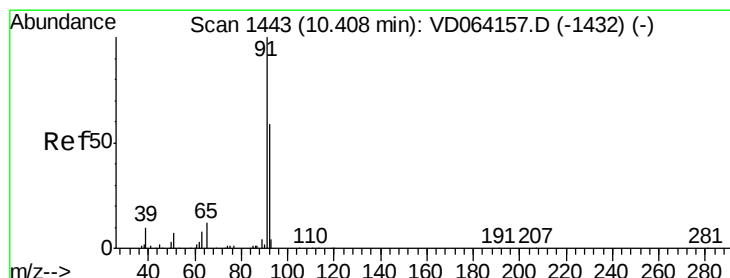
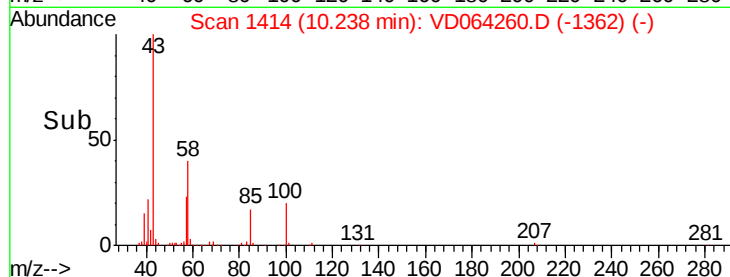
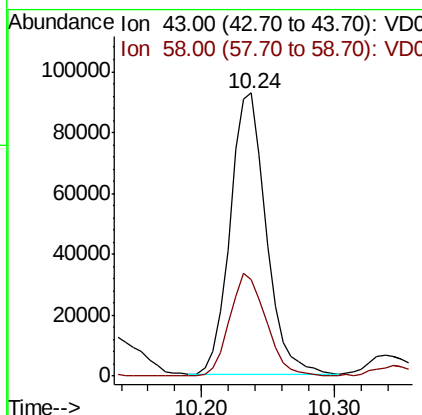
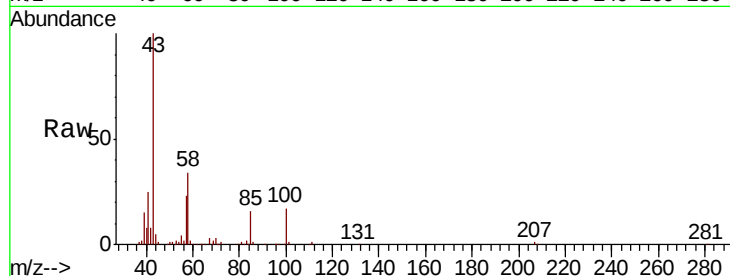




#51  
 4-Methyl-2-Pentanone  
 Concen: 59.794 ug/l  
 RT: 10.24 min Scan# 1414  
 Delta R.T. 0.01 min  
 Lab File: VD064260.D  
 Acq: 18 Nov 2019 13:07

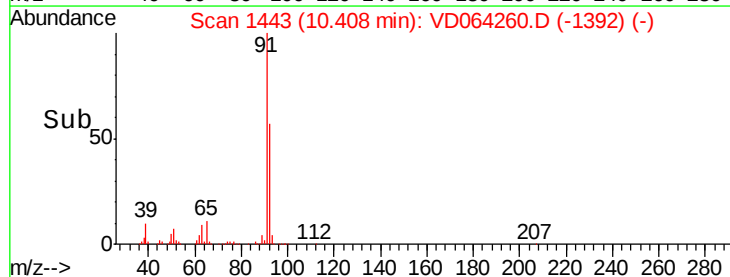
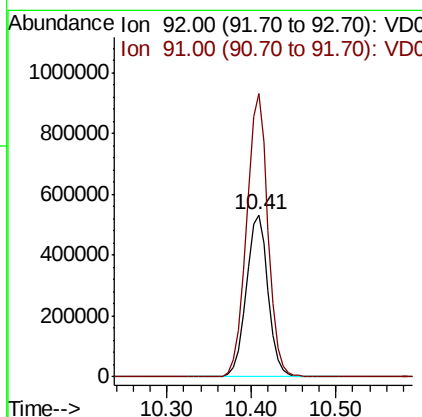
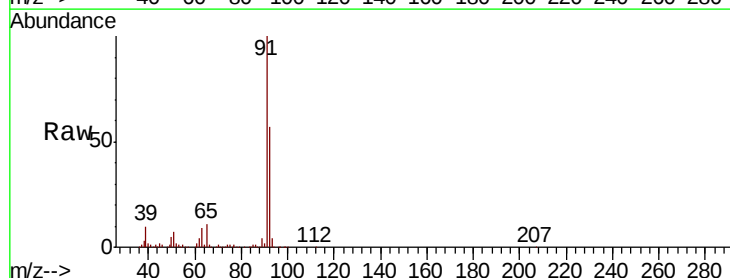
Instrument :  
 MSVOA\_D  
 ClientSampleId :

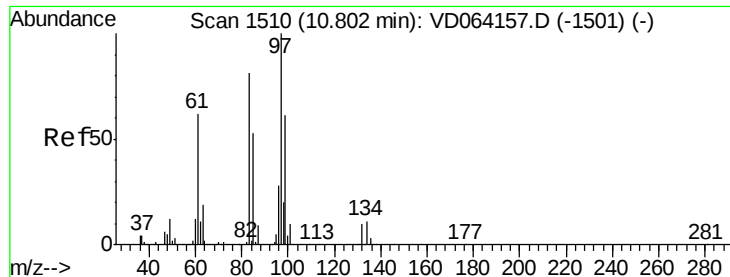
Tot Ion: 43 Resp: 172100  
 Ion Ratio Lower Upper  
 43 100  
 58 37.4 30.2 45.4



#52  
 Toluene  
 Concen: 76.799 ug/l  
 RT: 10.41 min Scan# 1443  
 Delta R.T. -0.00 min  
 Lab File: VD064260.D  
 Acq: 18 Nov 2019 13:07

Tgt Ion: 92 Resp: 953676  
 Ion Ratio Lower Upper  
 92 100  
 91 171.5 136.4 204.6

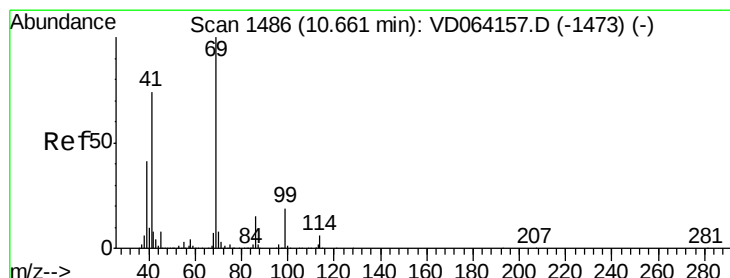
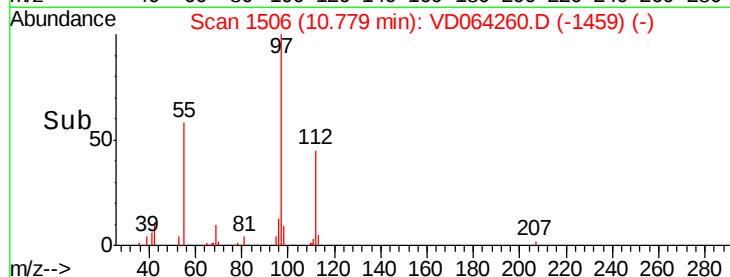
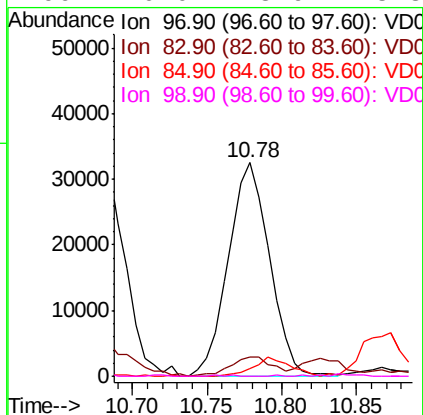
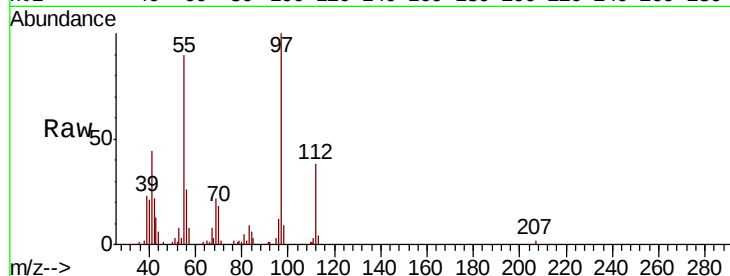




#55  
 1,1,2-Trichloroethane  
 Concen: 18.823 ug/l  
 RT: 10.78 min Scan# 1506  
 Delta R.T. -0.02 min  
 Lab File: VD064260.D  
 Acq: 18 Nov 2019 13:07

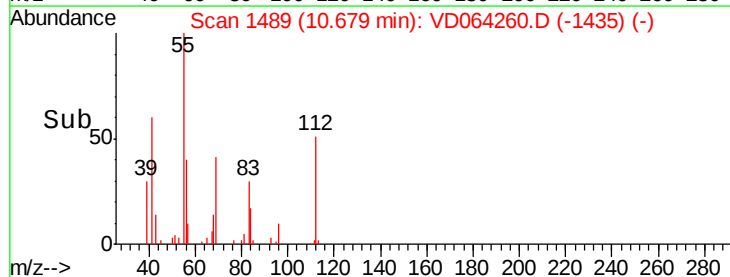
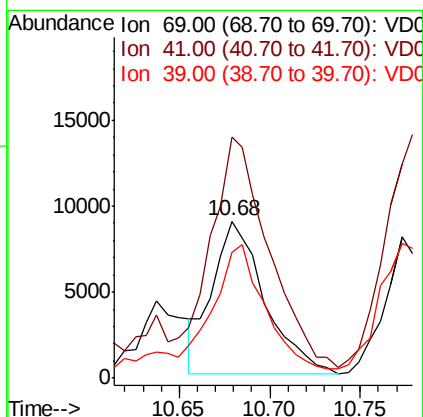
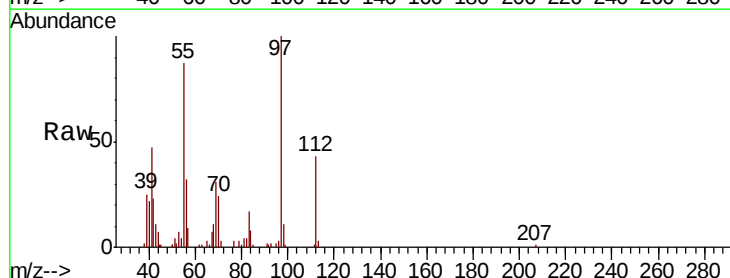
Instrument :  
 MSVOA\_D  
 ClientSampleID :

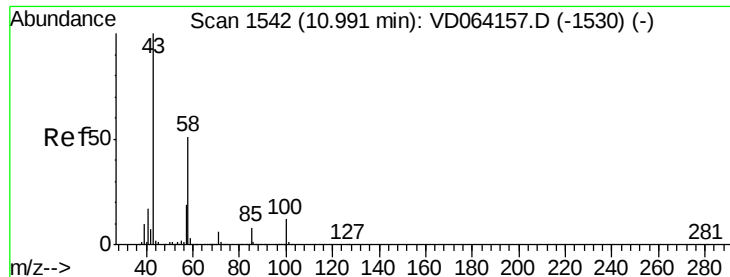
Tot Ion: 97 Resp: 62836  
 Ion Ratio Lower Upper  
 97 100  
 83 9.0 65.1 97.7#  
 85 3.4 42.0 63.0#  
 99 0.0 48.9 73.3#



#56  
 Ethyl methacrylate  
 Concen: 3.852 ug/l  
 RT: 10.68 min Scan# 1489  
 Delta R.T. 0.02 min  
 Lab File: VD064260.D  
 Acq: 18 Nov 2019 13:07

Tgt Ion: 69 Resp: 17990  
 Ion Ratio Lower Upper  
 69 100  
 41 166.4 57.9 86.9#  
 39 78.0 29.0 43.4#

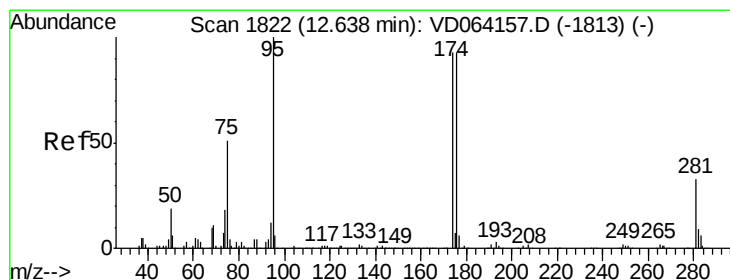
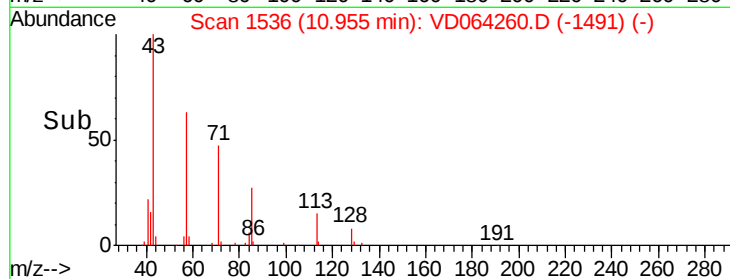
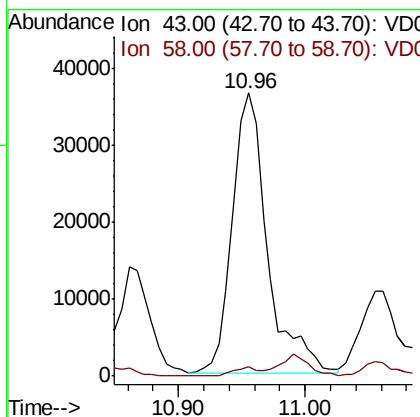
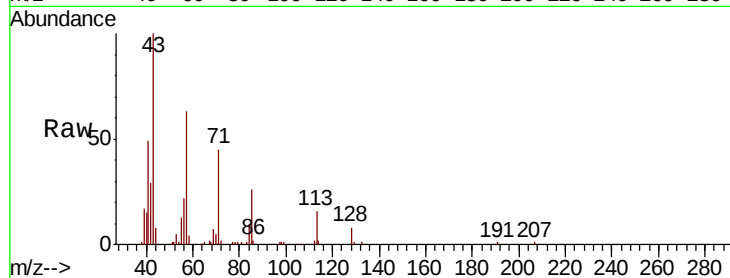




#59  
2-Hexanone  
Concen: 34.035 ug/l  
RT: 10.96 min Scan# 1536  
Delta R.T. -0.04 min  
Lab File: VD064260.D  
Acq: 18 Nov 2019 13:07

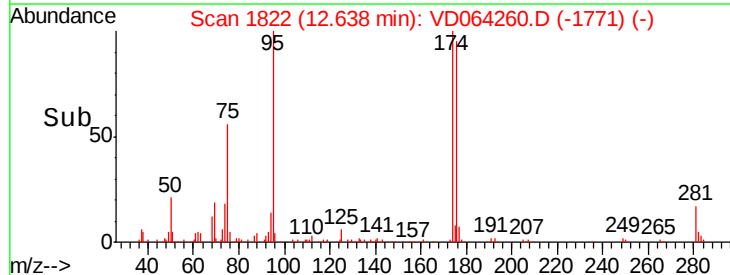
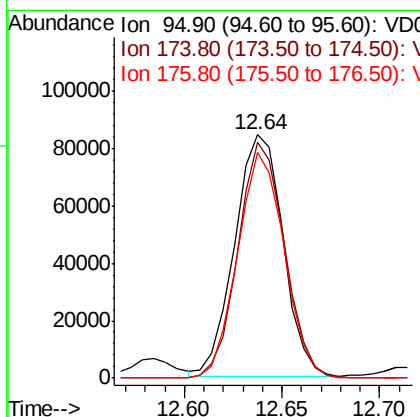
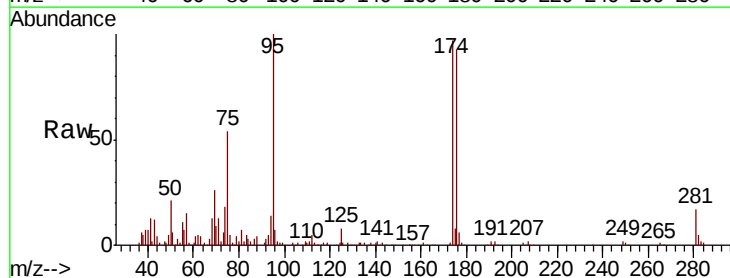
Instrument :  
MSVOA\_D  
ClientSampleId :

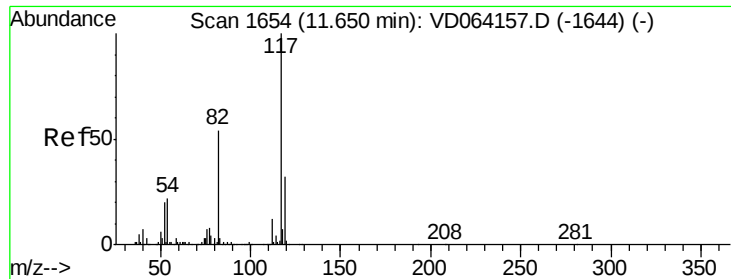
Tot Ion: 43 Resp: 69694  
Ion Ratio Lower Upper  
43 100  
58 2.4 25.9 77.7#



#62  
4-Bromofluorobenzene  
Concen: 25.740 ug/l  
RT: 12.64 min Scan# 1822  
Delta R.T. -0.00 min  
Lab File: VD064260.D  
Acq: 18 Nov 2019 13:07

Tgt Ion: 95 Resp: 144515  
Ion Ratio Lower Upper  
95 100  
174 93.6 0.0 183.6  
176 90.3 0.0 180.2

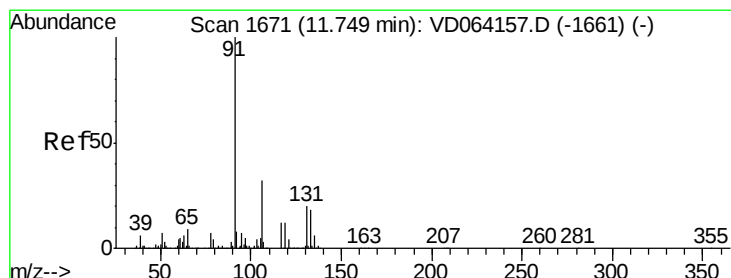
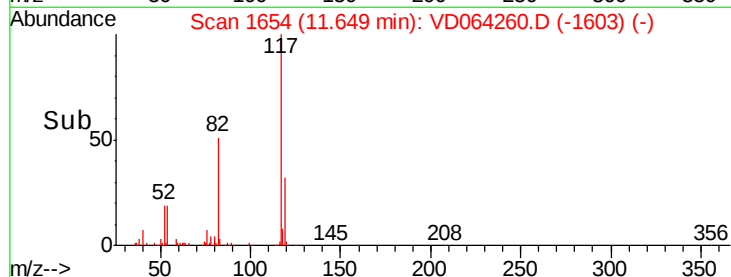
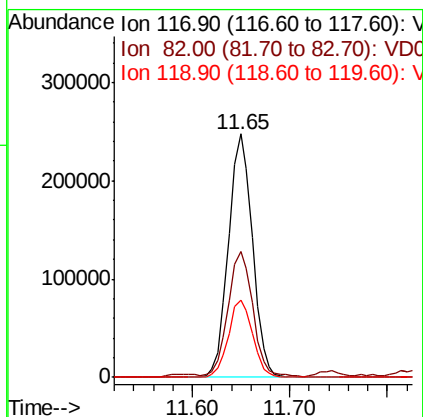
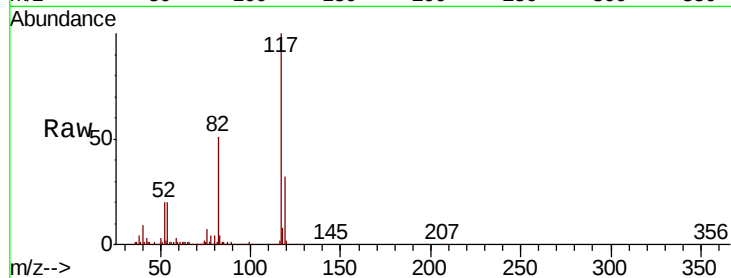




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. -0.00 min  
Lab File: VD064260.D  
Acq: 18 Nov 2019 13:07

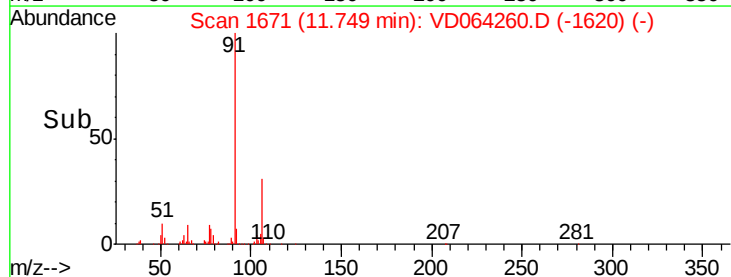
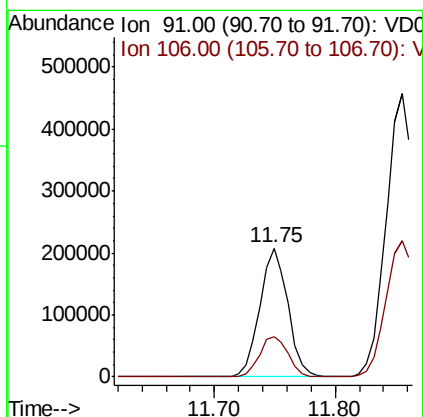
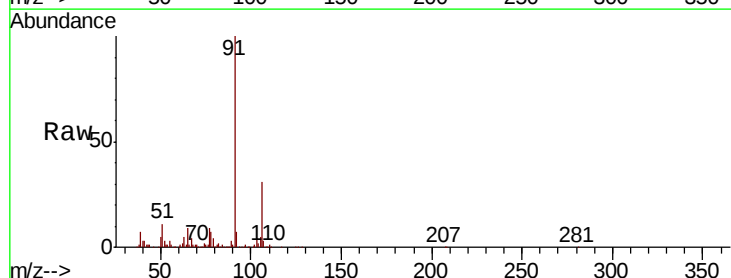
Instrument :  
MSVOA\_D  
ClientSampleId :

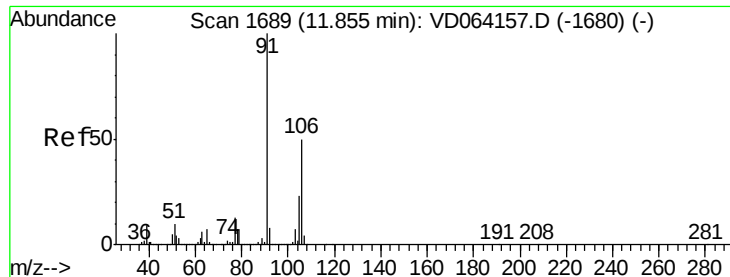
Tot Ion:117 Resp: 424274  
Ion Ratio Lower Upper  
117 100  
82 50.4 42.8 64.2  
119 32.0 25.6 38.4



#67  
Ethyl Benzene  
Concen: 21.624 ug/l  
RT: 11.75 min Scan# 1671  
Delta R.T. -0.00 min  
Lab File: VD064260.D  
Acq: 18 Nov 2019 13:07

Tgt Ion: 91 Resp: 337458  
Ion Ratio Lower Upper  
91 100  
106 30.9 25.5 38.3





#68

m/p-Xylenes

Concen: 67.199 ug/l

RT: 11.86 min Scan# 1689

Delta R.T. -0.00 min

Lab File: VD064260.D

Acq: 18 Nov 2019 13:07

Instrument :

MSVOA\_D

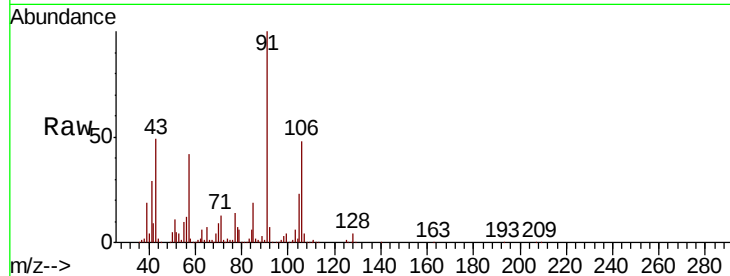
ClientSampleId :

Tot Ion:106 Resp: 401967

Ion Ratio Lower Upper

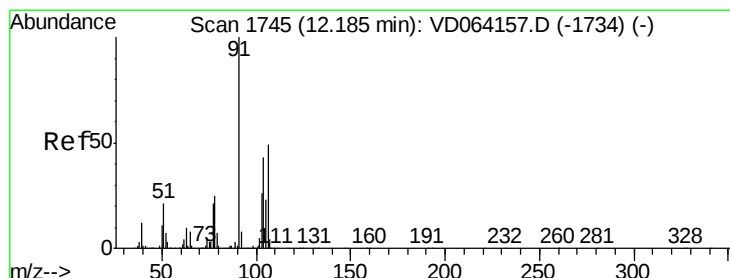
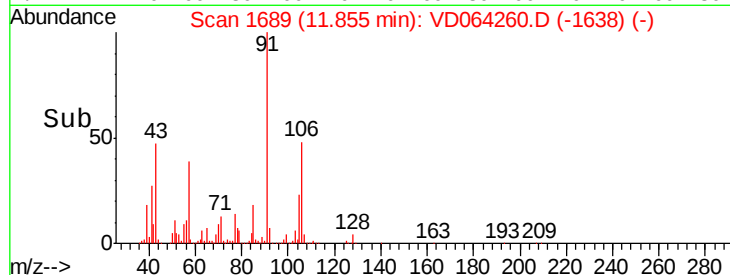
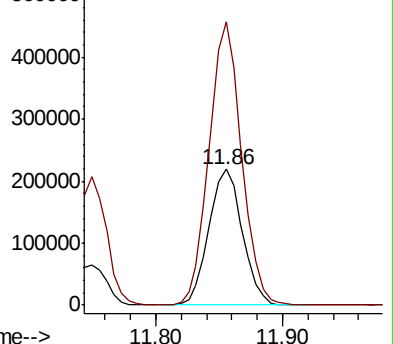
106 100

91 202.9 160.3 240.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VDC



#69

o-Xylene

Concen: 29.199 ug/l

RT: 12.18 min Scan# 1745

Delta R.T. -0.00 min

Lab File: VD064260.D

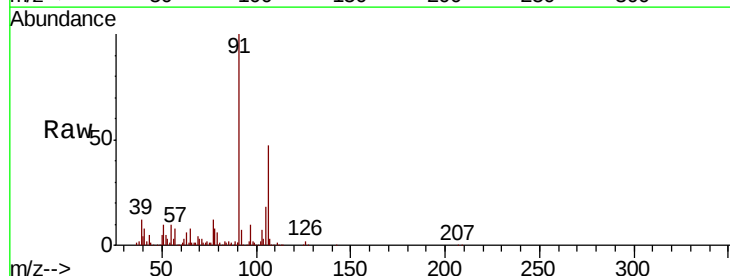
Acq: 18 Nov 2019 13:07

Tgt Ion:106 Resp: 161987

Ion Ratio Lower Upper

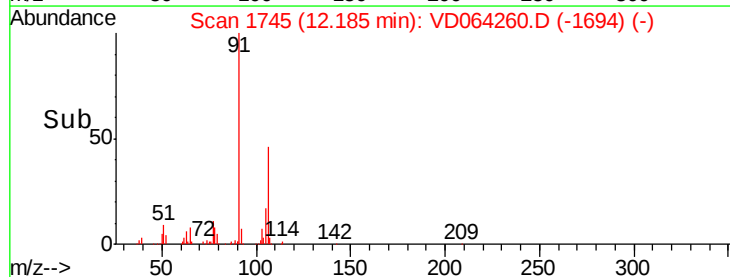
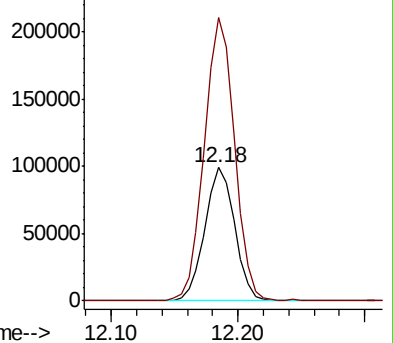
106 100

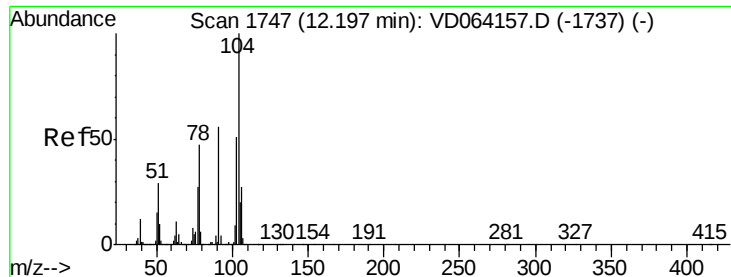
91 215.2 105.1 315.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VDC





#70

Stvrene

Concen: 1.439 ug/l

RT: 12.18 min Scan# 1745

Delta R.T. -0.01 min

Lab File: VD064260.D

Acq: 18 Nov 2019 13:07

Instrument :

MSVOA\_D

ClientSampleId :

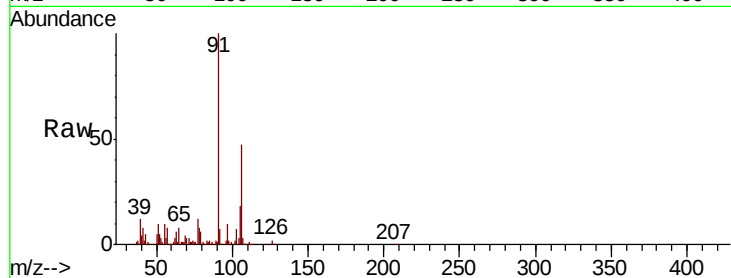
Tot Ion:104 Resp: 13933

Ion Ratio Lower Upper

104 100

78 201.1 39.9 59.9#

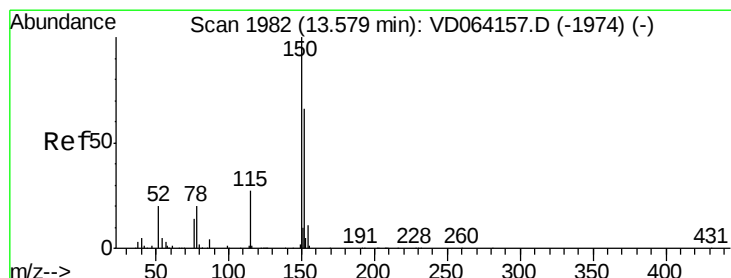
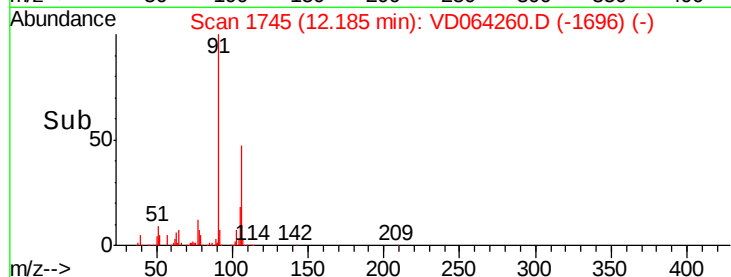
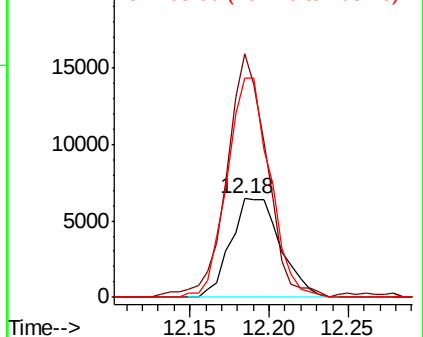
103 193.0 43.4 65.0#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): V

Ion 103.00 (102.70 to 103.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. 0.01 min

Lab File: VD064260.D

Acq: 18 Nov 2019 13:07

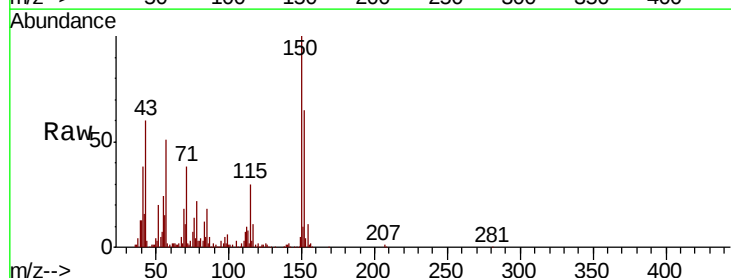
Tgt Ion:152 Resp: 100110

Ion Ratio Lower Upper

152 100

115 58.0 27.4 82.2

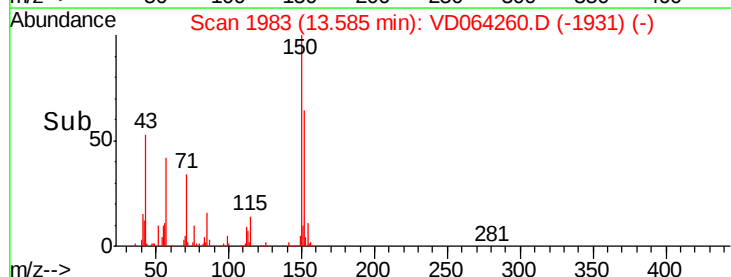
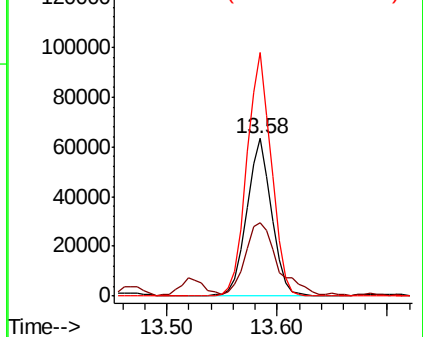
150 152.1 0.0 351.6

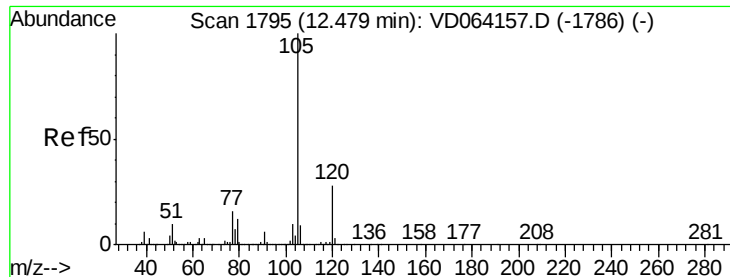


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 11.400 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. 0.01 min

Lab File: VD064260.D

Acq: 18 Nov 2019 13:07

Instrument :

MSVOA\_D

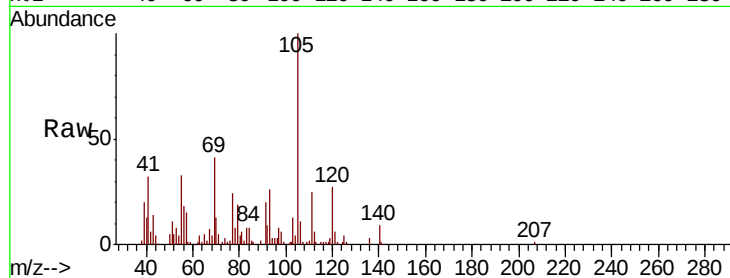
ClientSampled :

Tot Ion:105 Resp: 83765

Ion Ratio Lower Upper

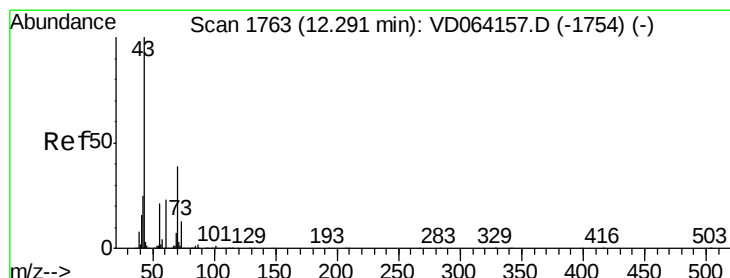
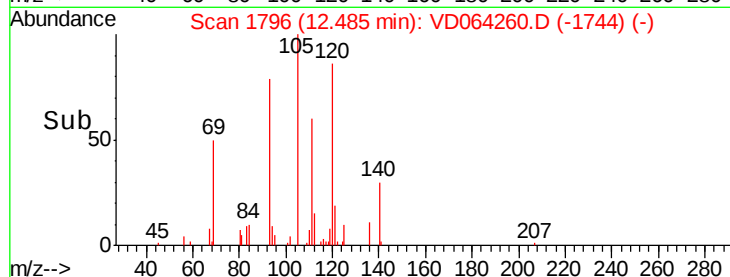
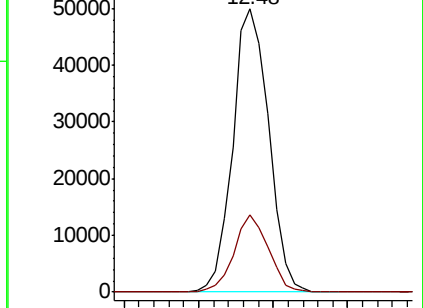
105 100

120 25.9 13.6 40.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 61.085 ug/l

RT: 12.27 min Scan# 1760

Delta R.T. -0.02 min

Lab File: VD064260.D

Acq: 18 Nov 2019 13:07

Tgt Ion: 43 Resp: 105996

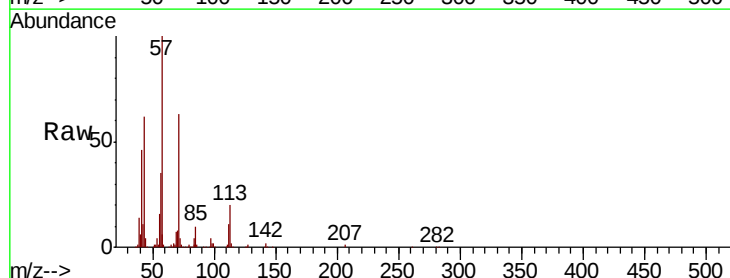
Ion Ratio Lower Upper

43 100

70 17.2 32.4 48.6#

55 0.0 17.9 26.9#

61 0.0 19.0 28.4#

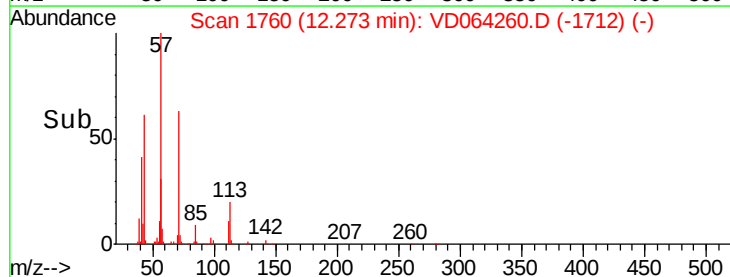
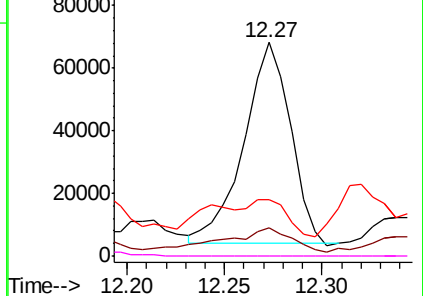


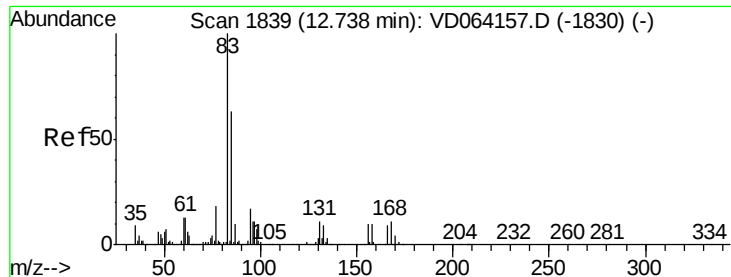
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 22.635 ug/l

RT: 12.80 min Scan# 1850

Delta R.T. 0.06 min

Lab File: VD064260.D

Acq: 18 Nov 2019 13:07

Instrument :

MSVOA\_D

ClientSampleId :

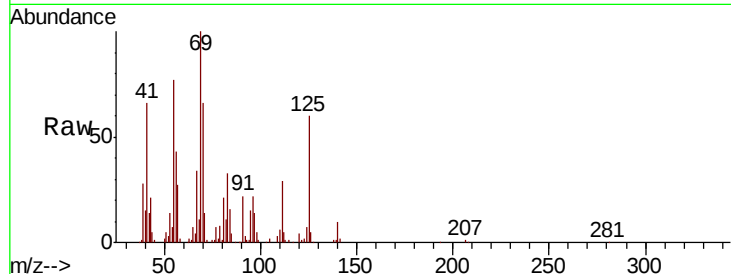
Tot Ion: 83 Resp: 25062

Ion Ratio Lower Upper

83 100

131 0.0 5.9 17.7#

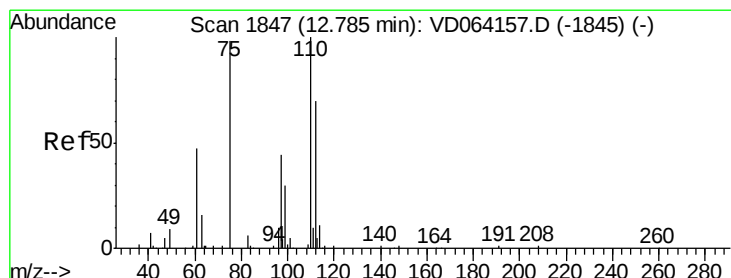
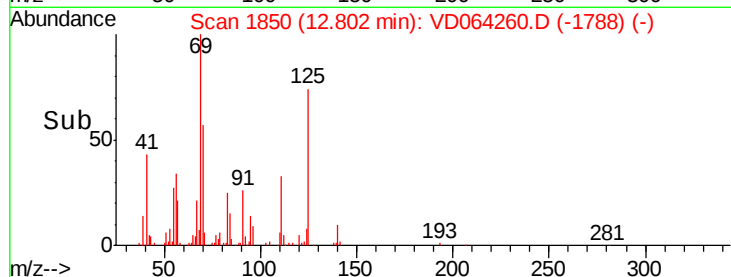
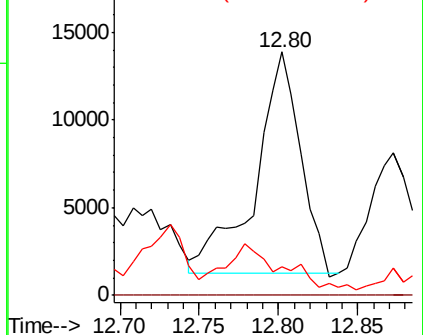
85 0.0 32.5 97.5#



Abundance Ion 82.90 (82.60 to 83.60): VDC

Ion 130.80 (130.50 to 131.50): VDC

Ion 84.90 (84.60 to 85.60): VDC



#76

1,2,3-Trichloropropane

Concen: 5.071 ug/l

RT: 12.88 min Scan# 1864

Delta R.T. 0.10 min

Lab File: VD064260.D

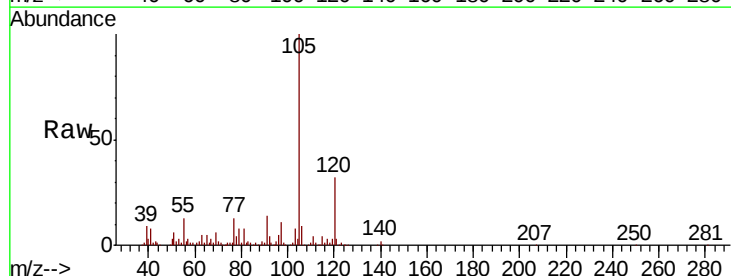
Acq: 18 Nov 2019 13:07

Tgt Ion: 75 Resp: 4089

Ion Ratio Lower Upper

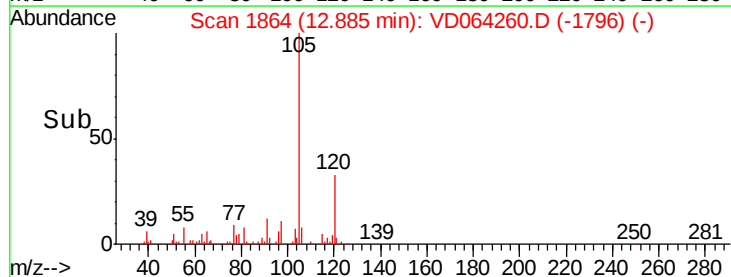
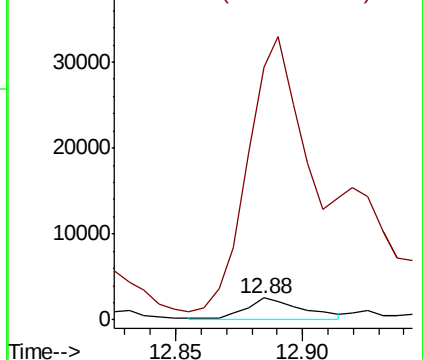
75 100

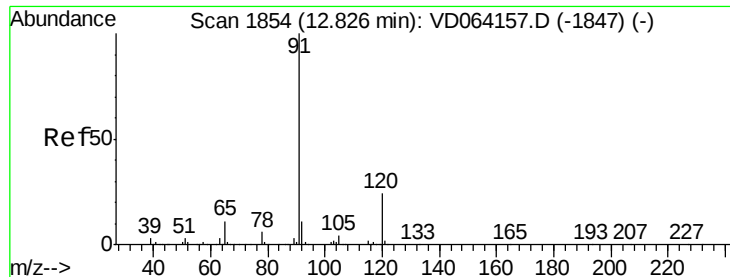
77 1349.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC





#78

n-propylbenzene

Concen: 24.172 ug/l

RT: 12.83 min Scan# 1854

Delta R.T. -0.00 min

Lab File: VD064260.D

Acq: 18 Nov 2019 13:07

Instrument :

MSVOA\_D

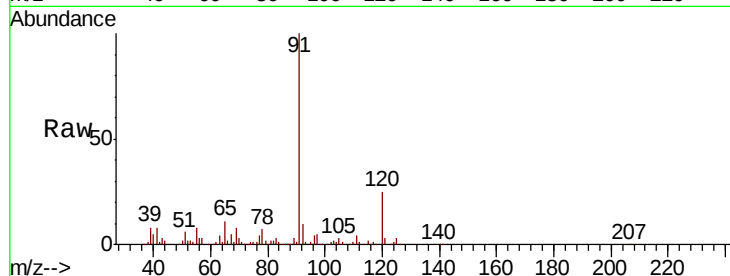
ClientSampled :

Tot Ion: 91 Resp: 202927

Ion Ratio Lower Upper

91 100

120 24.7 11.8 35.4



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.00 (119.70 to 120.70): V

12.83

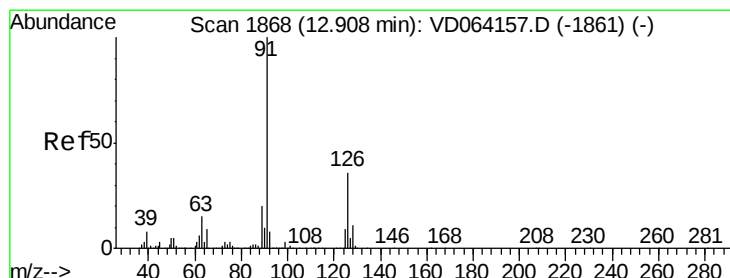
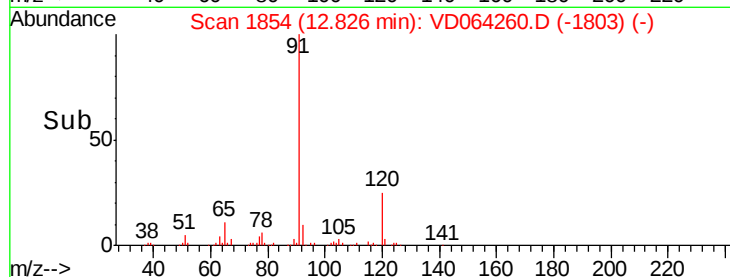
100000

50000

0

12.75 12.80 12.85

Time-->



#79

2-Chlorotoluene

Concen: 11.584 ug/l

RT: 12.89 min Scan# 1865

Delta R.T. -0.02 min

Lab File: VD064260.D

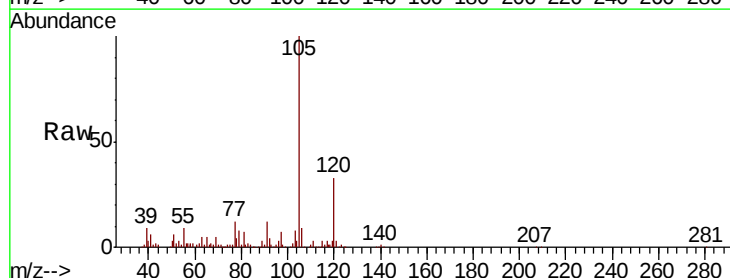
Acq: 18 Nov 2019 13:07

Tgt Ion: 91 Resp: 54904

Ion Ratio Lower Upper

91 100

126 0.9 17.7 53.1#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.90 (125.60 to 126.60): V

80000

60000

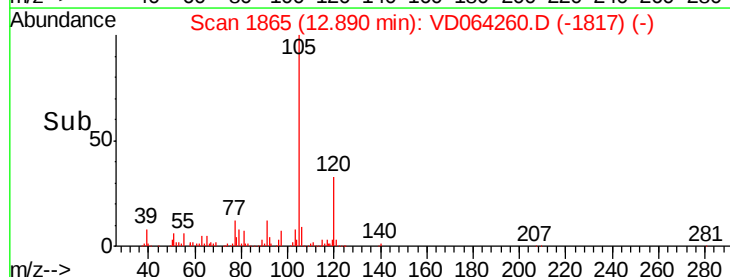
40000

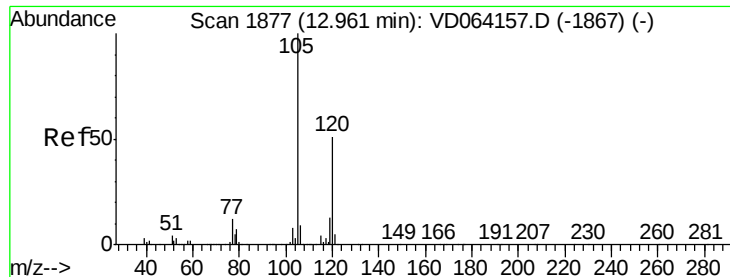
20000

0

12.85 12.90

Time-->

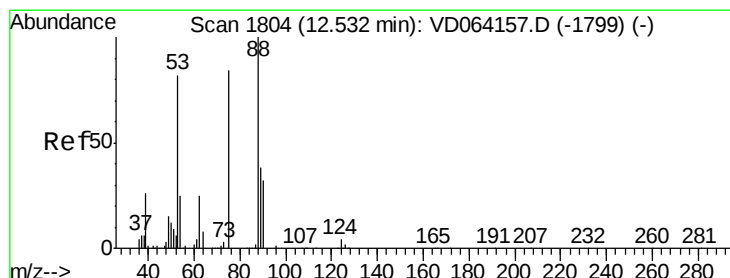
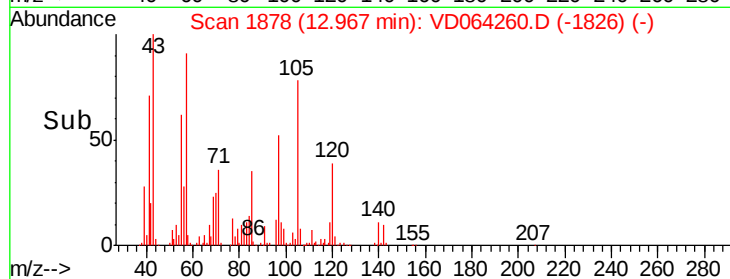
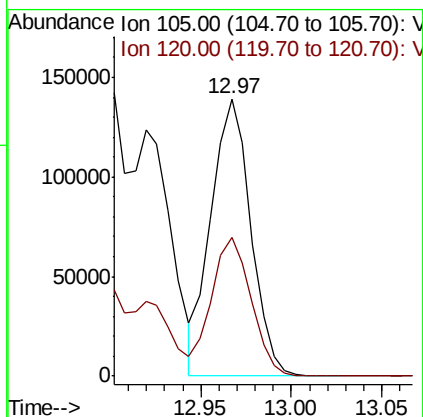
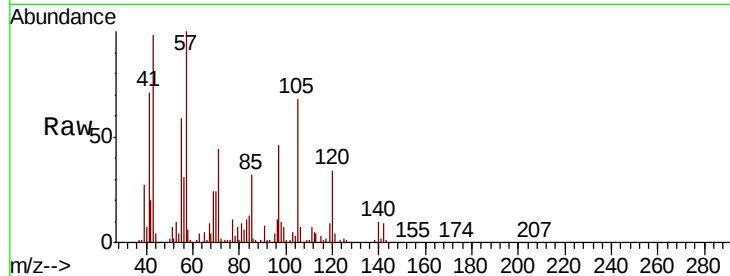




#80  
 1,3,5-Trimethylbenzene  
 Concen: 35.242 ug/l  
 RT: 12.97 min Scan# 1878  
 Delta R.T. 0.01 min  
 Lab File: VD064260.D  
 Acq: 18 Nov 2019 13:07

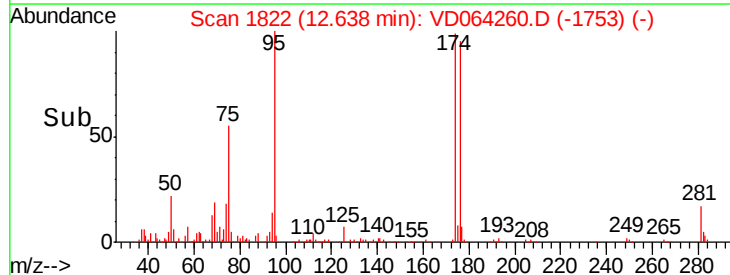
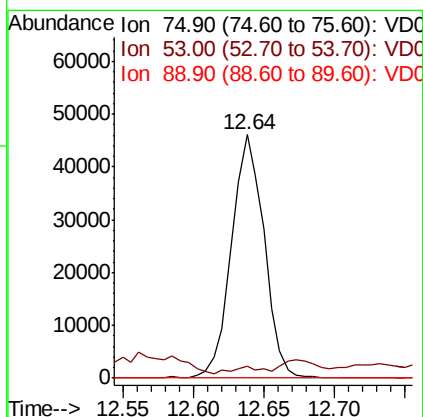
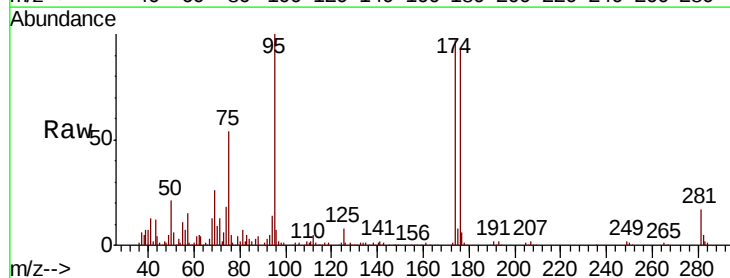
Instrument :  
 MSVOA\_D  
 ClientSampleId :

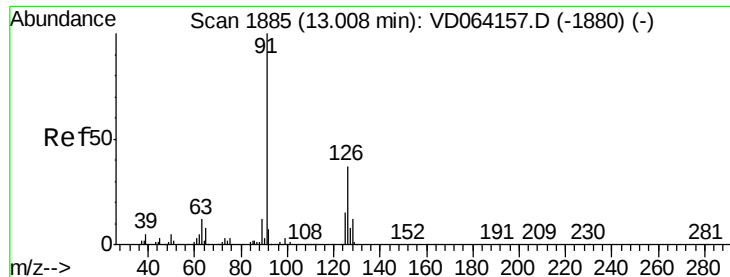
Tot Ion: 105 Resp: 212788  
 Ion Ratio Lower Upper  
 105 100  
 120 50.2 25.4 76.4



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 183.301 ug/l  
 RT: 12.64 min Scan# 1822  
 Delta R.T. 0.11 min  
 Lab File: VD064260.D  
 Acq: 18 Nov 2019 13:07

Tgt Ion: 75 Resp: 74409  
 Ion Ratio Lower Upper  
 75 100  
 53 2.9 79.4 119.0#  
 89 0.2 36.6 55.0#





#82

4-Chlorotoluene

Concen: 4.973 ug/l

RT: 12.97 min Scan# 1878

Delta R.T. -0.04 min

Lab File: VD064260.D

Acq: 18 Nov 2019 13:07

Instrument :

MSVOA\_D

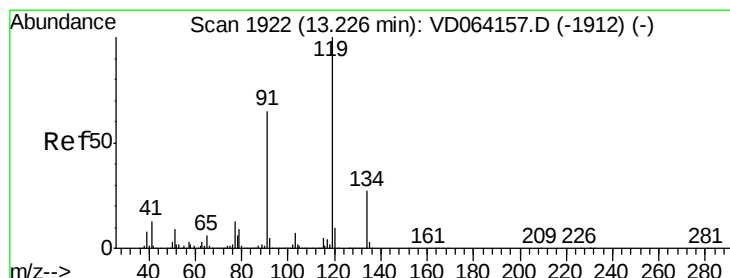
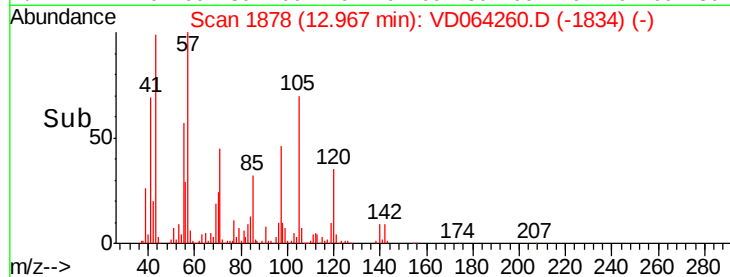
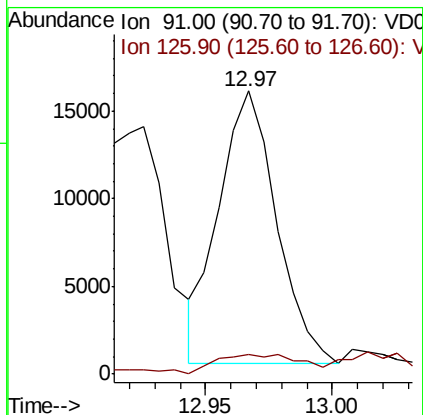
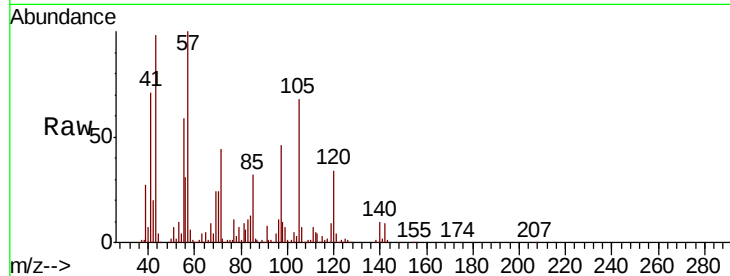
ClientSampleId :

Tot Ion: 91 Resp: 24584

Ion Ratio Lower Upper

91 100

126 10.7 17.8 53.4#



#83

tert-Butylbenzene

Concen: 15.290 ug/l

RT: 13.27 min Scan# 1930

Delta R.T. 0.05 min

Lab File: VD064260.D

Acq: 18 Nov 2019 13:07

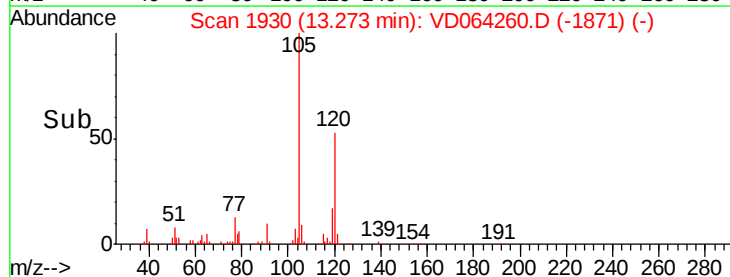
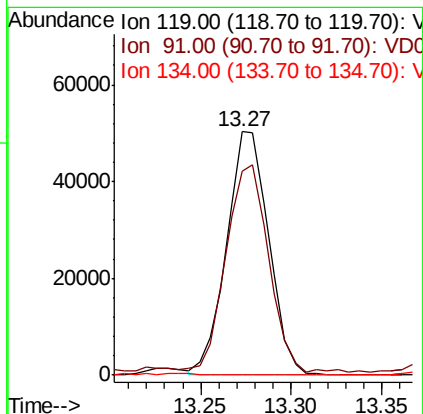
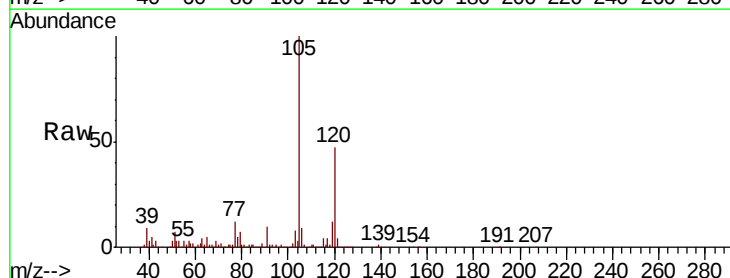
Tgt Ion: 119 Resp: 81407

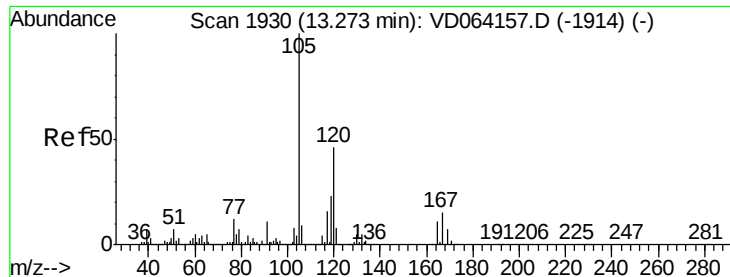
Ion Ratio Lower Upper

119 100

91 85.5 31.8 95.4

134 0.0 13.7 41.0#

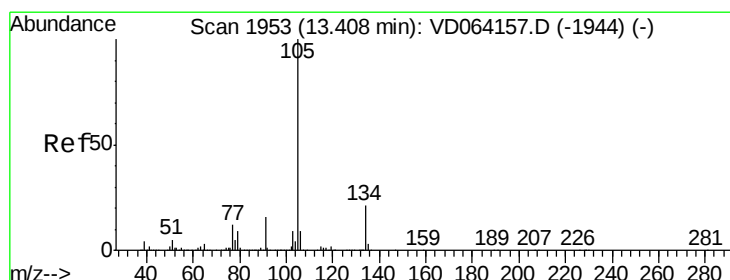
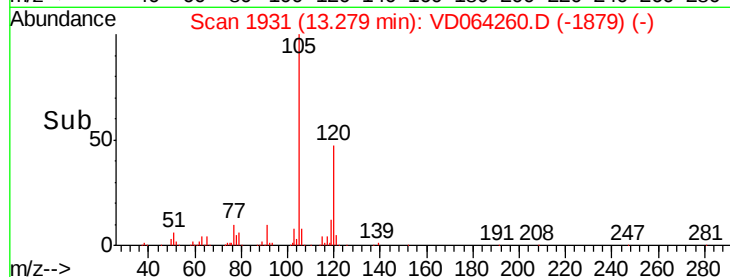
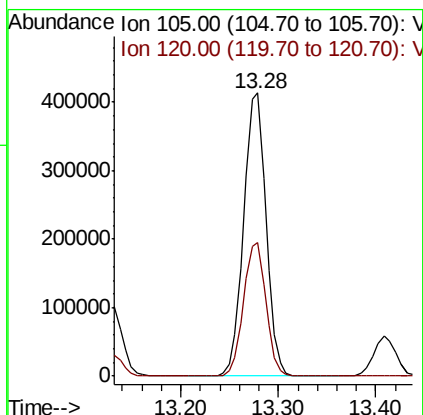
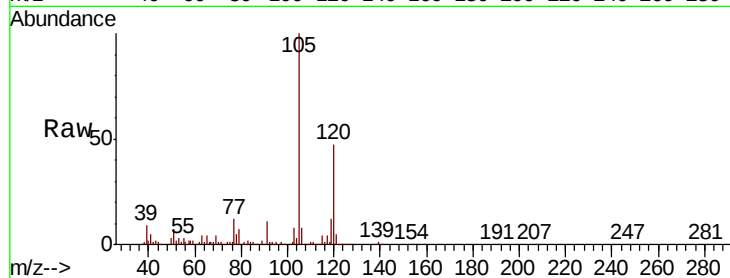




#84  
 1,2,4-Trimethylbenzene  
 Concen: 111.514 ug/l  
 RT: 13.28 min Scan# 1931  
 Delta R.T. 0.01 min  
 Lab File: VD064260.D  
 Acq: 18 Nov 2019 13:07

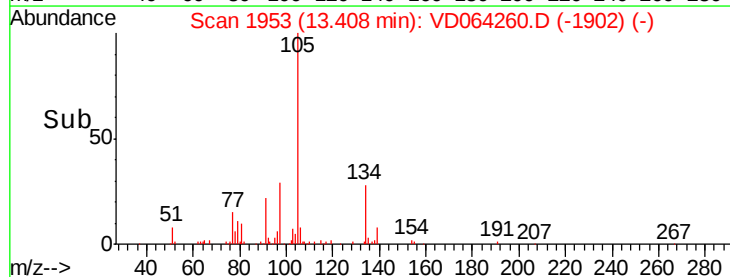
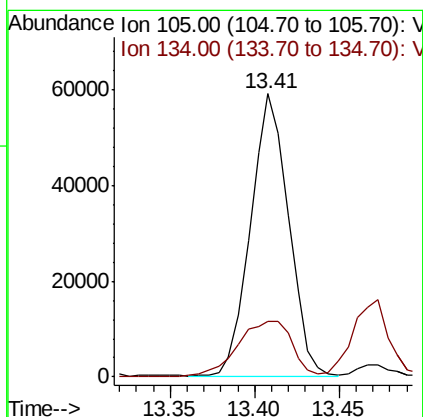
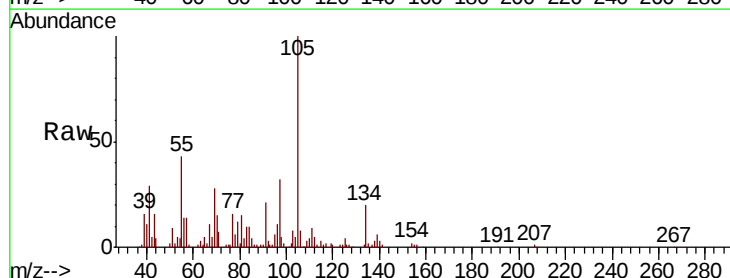
Instrument :  
 MSVOA\_D  
 ClientSampleId :

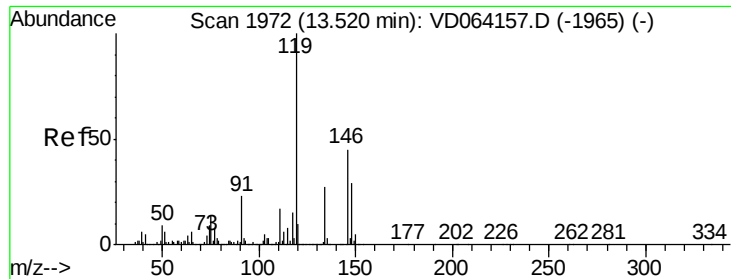
Tot Ion:105 Resp: 664733  
 Ion Ratio Lower Upper  
 105 100  
 120 47.3 23.3 69.8



#85  
 sec-Butylbenzene  
 Concen: 12.855 ug/l  
 RT: 13.41 min Scan# 1953  
 Delta R.T. -0.00 min  
 Lab File: VD064260.D  
 Acq: 18 Nov 2019 13:07

Tgt Ion:105 Resp: 91921  
 Ion Ratio Lower Upper  
 105 100  
 134 28.6 10.7 31.9

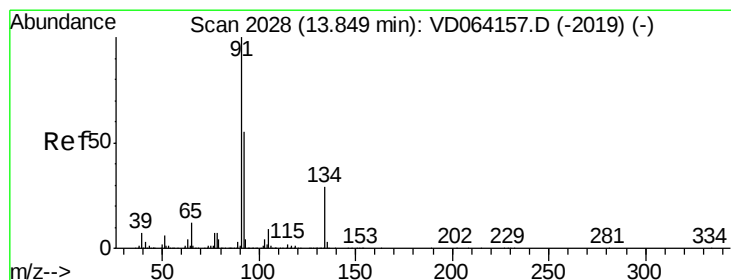
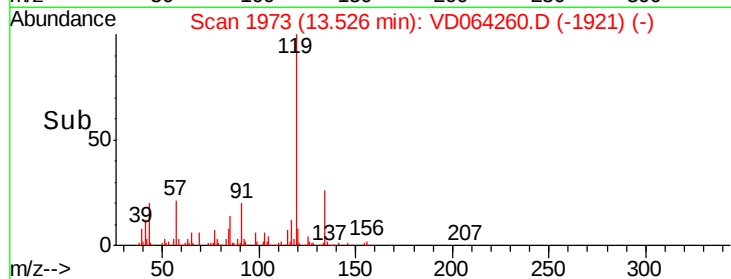
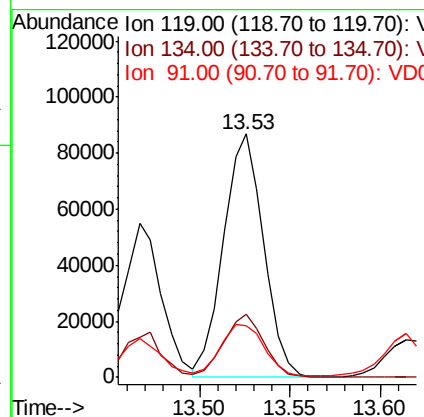
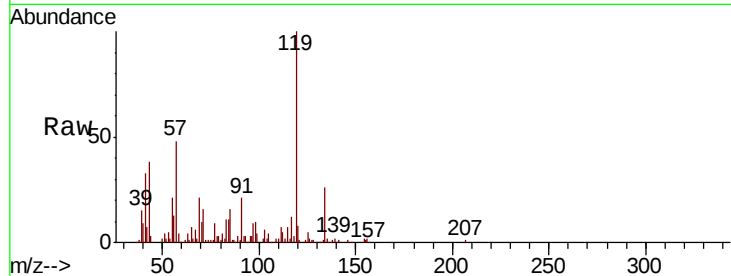




#86  
 p-Isopropyltoluene  
 Concen: 19.578 ug/l  
 RT: 13.53 min Scan# 1973  
 Delta R.T. 0.01 min  
 Lab File: VD064260.D  
 Acq: 18 Nov 2019 13:07

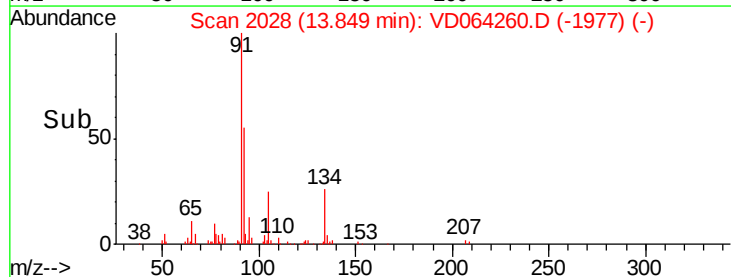
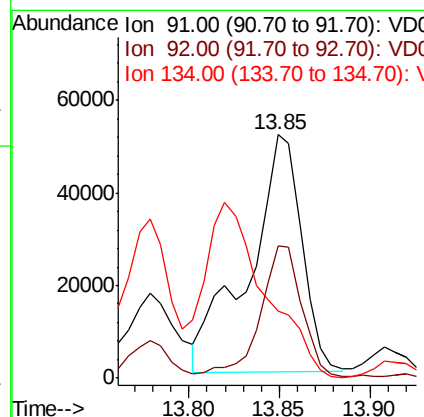
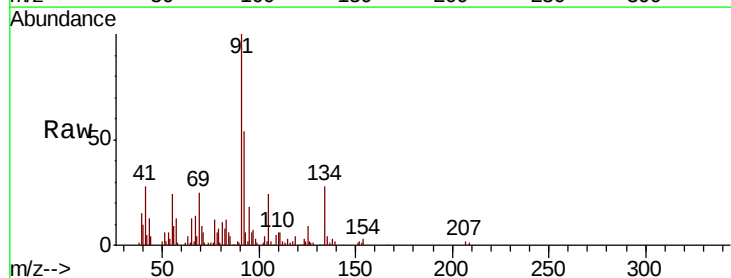
Instrument :  
 MSVOA\_D  
 ClientSampleId :

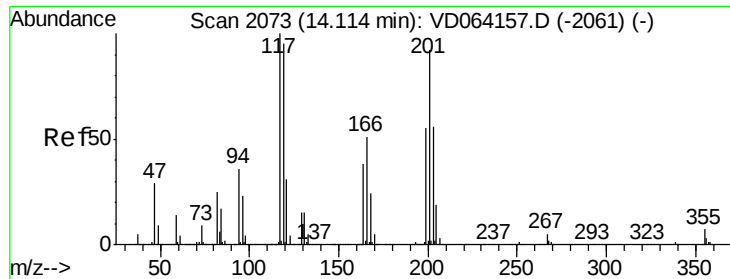
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 25.9  | 13.5  | 40.5  |
| 91      | 22.7  | 11.5  | 34.4  |



#89  
 n-Butylbenzene  
 Concen: 16.905 ug/l  
 RT: 13.85 min Scan# 2028  
 Delta R.T. -0.00 min  
 Lab File: VD064260.D  
 Acq: 18 Nov 2019 13:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 43.8  | 27.3  | 81.8  |
| 134     | 0.0   | 14.1  | 42.4  |





#90

Hexachloroethane

Concen: 8.545 ug/l

RT: 14.13 min Scan# 2075

Delta R.T. 0.01 min

Lab File: VD064260.D

Acq: 18 Nov 2019 13:07

Instrument :

MSVOA\_D

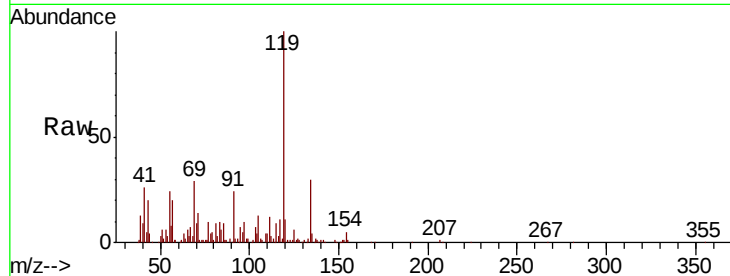
ClientSampled :

Tot Ion:117 Resp: 10736

Ion Ratio Lower Upper

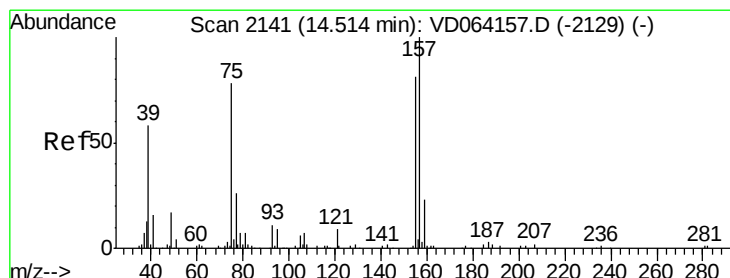
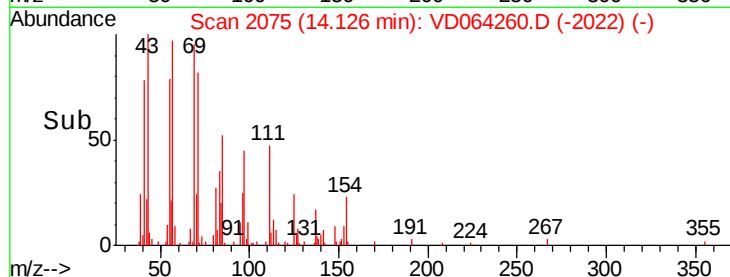
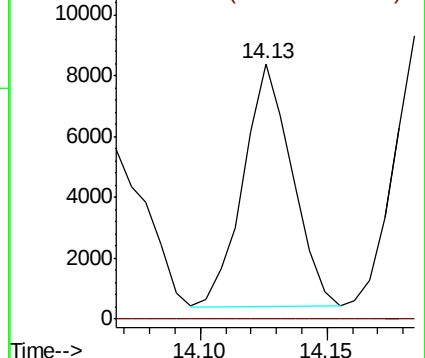
117 100

201 0.0 45.8 137.4#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 3.097 ug/l

RT: 14.54 min Scan# 2145

Delta R.T. 0.02 min

Lab File: VD064260.D

Acq: 18 Nov 2019 13:07

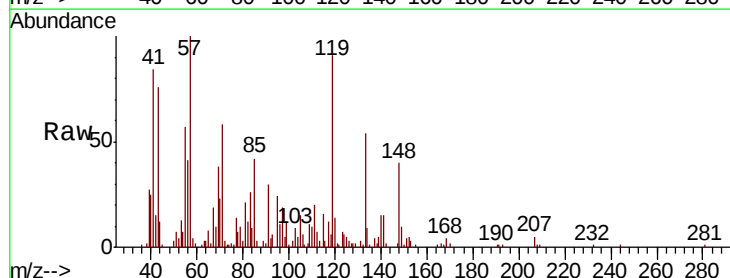
Tgt Ion: 75 Resp: 613

Ion Ratio Lower Upper

75 100

155 72.8 48.0 144.0

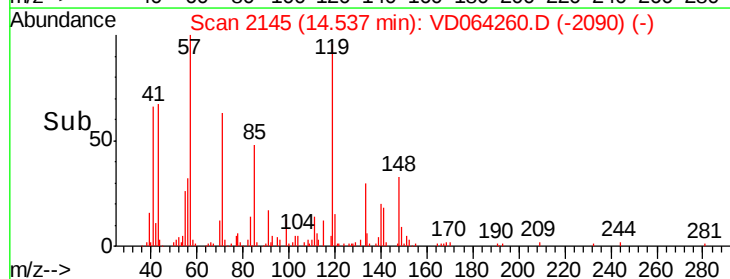
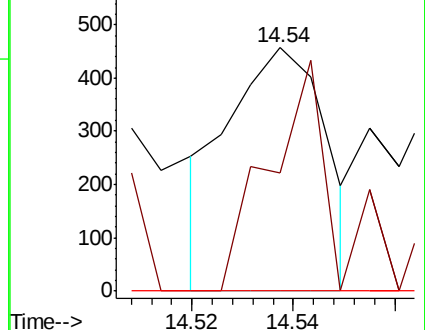
157 0.0 61.5 184.4#

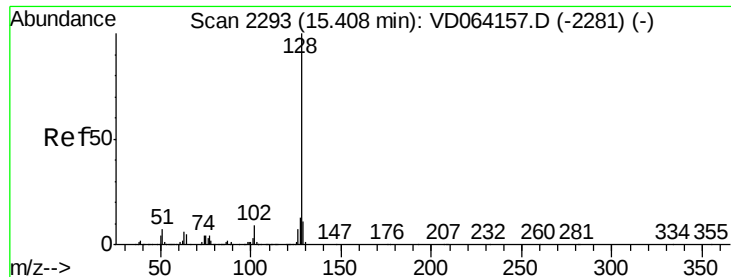


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#95

Naphthalene

Concen: 5.906 ug/l

RT: 15.41 min Scan# 2293

Delta R.T. -0.00 min

Lab File: VD064260.D

Acq: 18 Nov 2019 13:07

Instrument :

MSVOA\_D

ClientSampled :

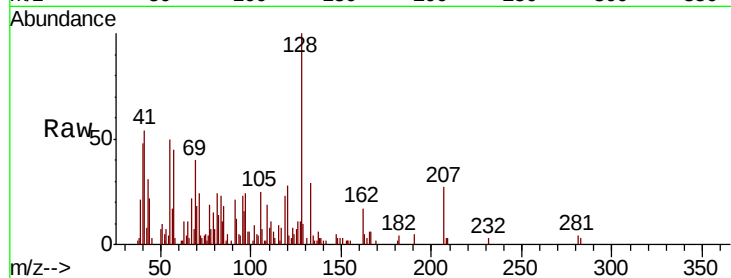
Tot Ion:128 Resp: 20946

Ion Ratio Lower Upper

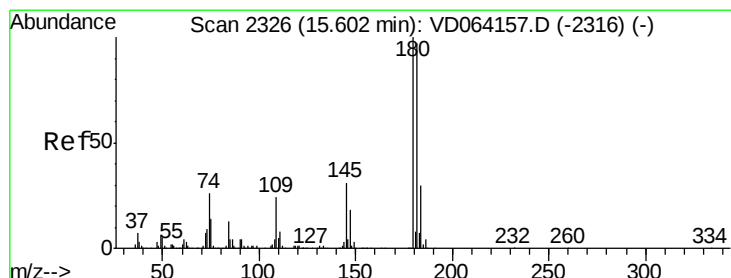
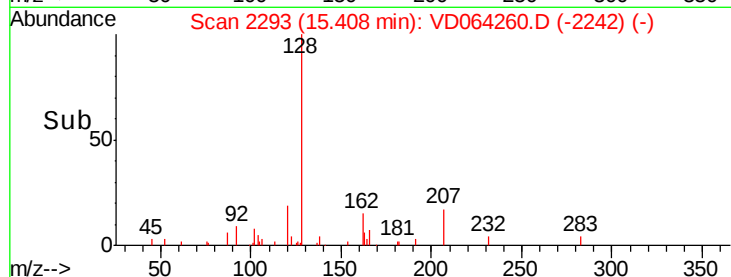
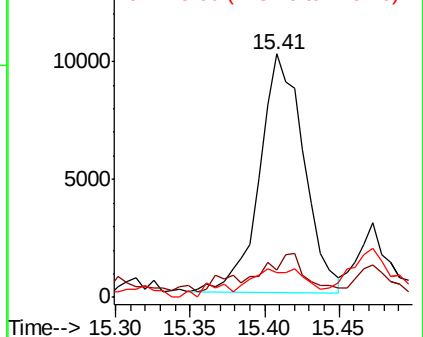
128 100

127 15.5 10.5 15.7

129 10.2 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V  
Ion 127.00 (126.70 to 127.70): V  
Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 1.114 ug/l

RT: 15.63 min Scan# 2330

Delta R.T. 0.02 min

Lab File: VD064260.D

Acq: 18 Nov 2019 13:07

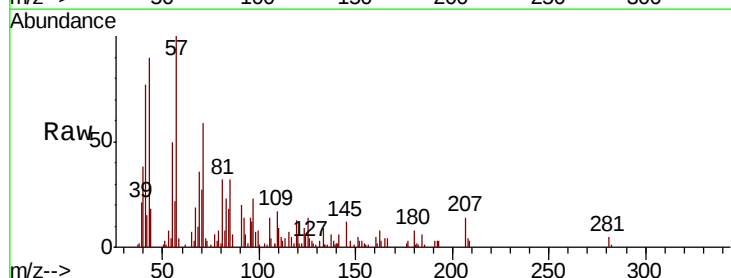
Tgt Ion:180 Resp: 2048

Ion Ratio Lower Upper

180 100

182 0.0 48.3 144.9#

145 0.0 15.3 45.8#



Abundance Ion 179.80 (179.50 to 180.50): V  
Ion 181.80 (181.50 to 182.50): V  
Ion 144.90 (144.60 to 145.60): V

