

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD121019\  
 Data File : VD064482.D  
 Acq On : 10 Dec 2019 10:21  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTD05006

Manual Integrations  
 APPROVED

apatel  
 12/11/2019 4:36:17 PM

Quant Time: Dec 11 00:51:40 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D112719S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Nov 29 07:18:03 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 475404   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 681389   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 600423   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 301380   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.33   | 65  | 212587   | 49.40 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.80%  |      |
| 35) Dibromofluoromethane  | 7.91   | 113 | 222670   | 51.87 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.74% |      |
| 50) Toluene-d8            | 10.34  | 98  | 842619   | 52.10 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 104.20% |      |
| 62) 4-Bromofluorobenzene  | 12.64  | 95  | 263401   | 50.68 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.36% |      |

## Target Compounds

|                               |      |     |         |         |        | Qvalue |
|-------------------------------|------|-----|---------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.99 | 85  | 206786  | 48.005  | ug/l   | 99     |
| 3) Chloromethane              | 2.21 | 50  | 257312  | 47.360  | ug/l   | 99     |
| 4) Vinyl Chloride             | 2.35 | 62  | 316832  | 50.506  | ug/l   | 96     |
| 5) Bromomethane               | 2.77 | 94  | 216792  | 46.732  | ug/l   | 94     |
| 6) Chloroethane               | 2.92 | 64  | 213123  | 50.829  | ug/l   | 98     |
| 7) Trichlorofluoromethane     | 3.27 | 101 | 540702  | 51.848  | ug/l   | 97     |
| 8) Diethyl Ether              | 3.70 | 74  | 101884  | 47.015  | ug/l   | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.09 | 101 | 227177  | 50.806  | ug/l   | 97     |
| 10) Methyl Iodide             | 4.29 | 142 | 256484  | 54.317  | ug/l   | 99     |
| 11) Tert butyl alcohol        | 5.24 | 59  | 60789   | 221.927 | ug/l # | 100    |
| 12) 1,1-Dichloroethene        | 4.06 | 96  | 214930  | 50.158  | ug/l   | 98     |
| 13) Acrolein                  | 3.93 | 56  | 98457   | 263.526 | ug/l   | 99     |
| 14) Allyl chloride            | 4.71 | 41  | 345594  | 51.679  | ug/l   | 99     |
| 15) Acrylonitrile             | 5.43 | 53  | 222975  | 235.297 | ug/l   | 98     |
| 16) Acetone                   | 4.17 | 43  | 254500  | 292.673 | ug/l   | 100    |
| 17) Carbon Disulfide          | 4.40 | 76  | 679253  | 50.050  | ug/l   | 98     |
| 18) Methyl Acetate            | 4.72 | 43  | 112446  | 44.332  | ug/l   | 99     |
| 19) Methyl tert-butyl Ether   | 5.48 | 73  | 471124  | 47.931  | ug/l   | 98     |
| 20) Methylene Chloride        | 4.96 | 84  | 225903  | 51.239  | ug/l   | 96     |
| 21) trans-1,2-Dichloroethene  | 5.47 | 96  | 241958  | 49.919  | ug/l   | 100    |
| 22) Diisopropyl ether         | 6.36 | 45  | 662670  | 50.196  | ug/l   | 95     |
| 23) Vinyl Acetate             | 6.31 | 43  | 1921110 | 246.838 | ug/l   | 98     |
| 24) 1,1-Dichloroethane        | 6.26 | 63  | 403964  | 50.881  | ug/l   | 97     |
| 25) 2-Butanone                | 7.22 | 43  | 299383  | 243.450 | ug/l   | 100    |
| 26) 2,2-Dichloropropane       | 7.21 | 77  | 376220  | 54.489  | ug/l   | 100    |
| 27) cis-1,2-Dichloroethene    | 7.21 | 96  | 267193  | 50.563  | ug/l   | 98     |
| 28) Bromochloromethane        | 7.55 | 49  | 132308  | 48.763  | ug/l   | 100    |
| 29) Tetrahydrofuran           | 7.57 | 42  | 178363  | 227.970 | ug/l   | 97     |
| 30) Chloroform                | 7.71 | 83  | 411446  | 50.040  | ug/l   | 99     |
| 31) Cyclohexane               | 7.98 | 56  | 382242  | 55.665  | ug/l   | 97     |
| 32) 1,1,1-Trichloroethane     | 7.90 | 97  | 397498  | 52.144  | ug/l   | 100    |
| 36) 1,1-Dichloropropene       | 8.11 | 75  | 333782  | 51.789  | ug/l   | 99     |
| 37) Ethyl Acetate             | 7.30 | 43  | 129135  | 47.220  | ug/l   | 98     |
| 38) Carbon Tetrachloride      | 8.10 | 117 | 366704  | 53.910  | ug/l   | 99     |

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 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleID :  
 VSTD05006

Manual Integrations  
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 12/11/2019 4:36:17 PM

Quant Time: Dec 11 00:51:40 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D112719S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Nov 29 07:18:03 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.36  | 83   | 419951   | 52.528  | ug/l   | 97       |
| 40) Benzene                    | 8.35  | 78   | 922015   | 51.508  | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.53  | 41   | 78229    | 49.880  | ug/l   | 93       |
| 42) 1,2-Dichloroethane         | 8.43  | 62   | 257715   | 49.368  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.46  | 43   | 264365   | 49.166  | ug/l   | 99       |
| 44) Trichloroethene            | 9.11  | 130  | 274306   | 50.872  | ug/l   | 97       |
| 45) 1,2-Dichloropropane        | 9.38  | 63   | 220328   | 51.466  | ug/l   | 100      |
| 46) Dibromomethane             | 9.47  | 93   | 119981   | 49.657  | ug/l   | 100      |
| 47) Bromodichloromethane       | 9.66  | 83   | 319488   | 51.461  | ug/l   | 100      |
| 48) Methyl methacrylate        | 9.46  | 41   | 118971   | 48.352  | ug/l   | 96       |
| 49) 1,4-Dioxane                | 9.46  | 88   | 26688    | 894.469 | ug/l   | 93       |
| 51) 4-Methyl-2-Pentanone       | 10.23 | 43   | 633998   | 238.300 | ug/l   | 100      |
| 52) Toluene                    | 10.40 | 92   | 605291   | 51.886  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 10.62 | 75   | 305471   | 51.628  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 10.09 | 75   | 362118   | 51.518  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 10.80 | 97   | 160933   | 48.643  | ug/l   | 95       |
| 56) Ethyl methacrylate         | 10.66 | 69   | 206226   | 48.871  | ug/l   | 100      |
| 57) 1,3-Dichloropropane        | 10.95 | 76   | 276821   | 49.152  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.94  | 63   | 374394   | 222.567 | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.98 | 43   | 468570   | 253.816 | ug/l   | 100      |
| 60) Dibromochloromethane       | 11.14 | 129  | 224144   | 49.967  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.25 | 107  | 160725   | 48.655  | ug/l   | 98       |
| 64) Tetrachloroethene          | 10.88 | 164  | 234387   | 51.191  | ug/l   | 95       |
| 65) Chlorobenzene              | 11.67 | 112  | 631841   | 50.455  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.74 | 131  | 236989   | 51.121  | ug/l   | 100      |
| 67) Ethyl Benzene              | 11.74 | 91   | 1165067  | 52.290  | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.86 | 106  | 897759   | 105.674 | ug/l   | 100      |
| 69) o-Xylene                   | 12.18 | 106  | 402996   | 51.362  | ug/l   | 97       |
| 70) Styrene                    | 12.20 | 104  | 706858   | 51.843  | ug/l   | 100      |
| 71) Bromoform                  | 12.36 | 173  | 136809   | 49.327  | ug/l # | 98       |
| 73) Isopropylbenzene           | 12.48 | 105  | 1122147  | 51.770  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.29 | 43   | 235723   | 47.916  | ug/l   | 100      |
| 75) 1,1,2,2-Tetrachloroethane  | 12.74 | 83   | 163944   | 45.737  | ug/l   | 96       |
| 76) 1,2,3-Trichloropropane     | 12.78 | 75   | 123853m  | 49.972  | ug/l   |          |
| 77) Bromobenzene               | 12.77 | 156  | 270553   | 50.545  | ug/l   | 99       |
| 78) n-propylbenzene            | 12.83 | 91   | 1295640  | 51.806  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.91 | 91   | 703859   | 51.148  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.97 | 105  | 916313   | 51.731  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.53 | 75   | 55692    | 48.997  | ug/l   | 99       |
| 82) 4-Chlorotoluene            | 13.01 | 91   | 734587   | 50.417  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.23 | 119  | 812033   | 52.732  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.27 | 105  | 901308   | 50.604  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.41 | 105  | 1110614  | 52.548  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.52 | 119  | 1055692  | 52.907  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.52 | 146  | 519006   | 51.087  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 13.60 | 146  | 503615   | 50.210  | ug/l   | 100      |
| 89) n-Butylbenzene             | 13.85 | 91   | 952554   | 52.568  | ug/l   | 99       |
| 90) Hexachloroethane           | 14.12 | 117  | 195184   | 52.299  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene        | 13.90 | 146  | 429933   | 49.518  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.52 | 75   | 28029    | 52.557  | ug/l   | 91       |

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Sample : VSTDCCC050  
Misc : 5.00G/5.00ml/MSVOA D/SOIL  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTD05006

Manual Integrations  
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Quant Time: Dec 11 00:51:40 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D112719S.M  
Quant Title : SW846 8260  
QLast Update : Fri Nov 29 07:18:03 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.17 | 180  | 320969   | 48.271 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 15.28 | 225  | 210424   | 51.262 | ug/l  | 99       |
| 95) Naphthalene            | 15.41 | 128  | 519312   | 46.798 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.61 | 180  | 277085   | 48.818 | ug/l  | 100      |

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

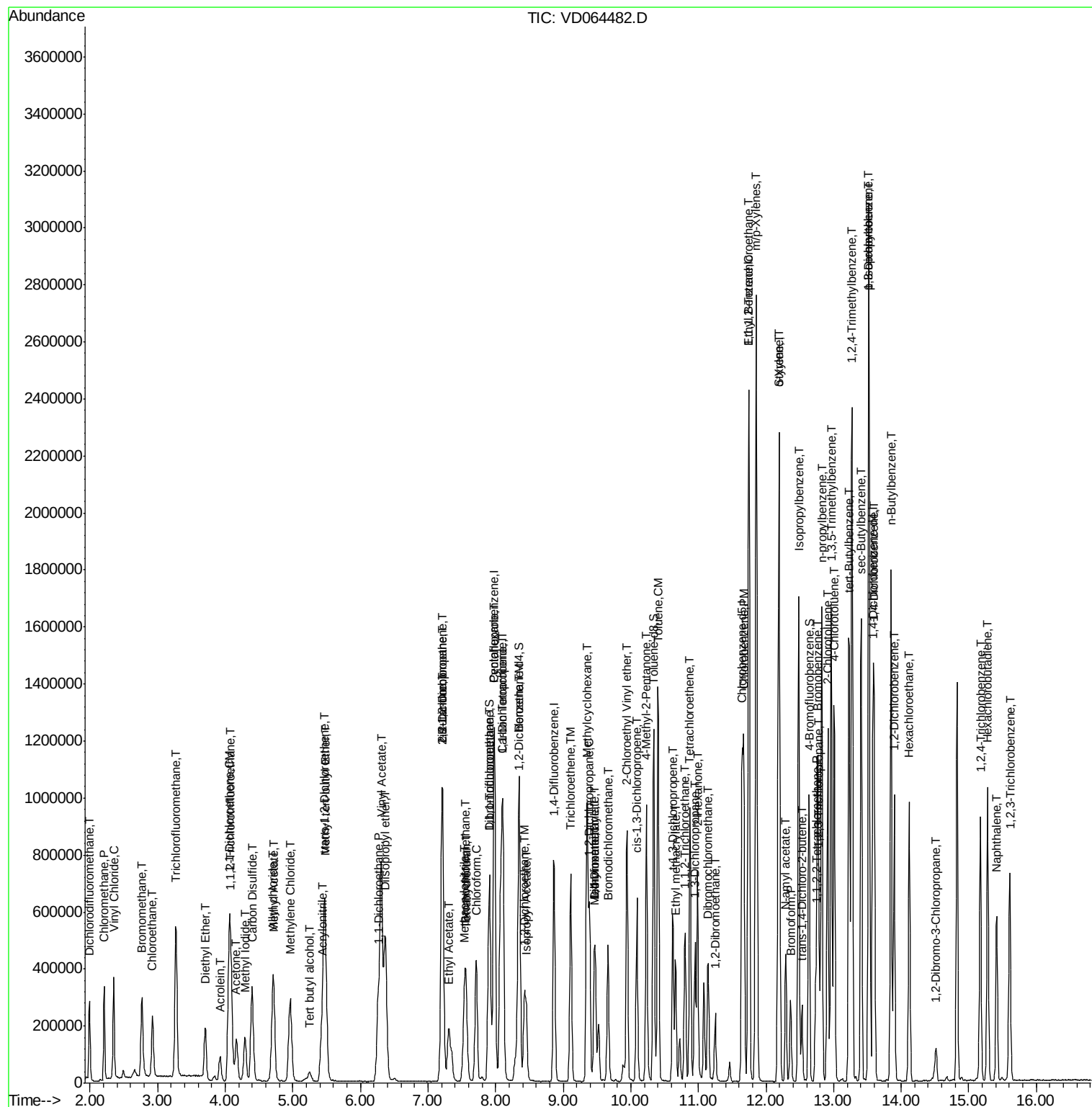
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Data File : VD064482.D  
Acq On : 10 Dec 2019 10:21  
Operator : VA/SY  
Sample : VSTDCCC050  
Misc : 5.00G/5.00ml/MSVOA D/SOIL  
ALS Vial : 2 Sample Multiplier: 1

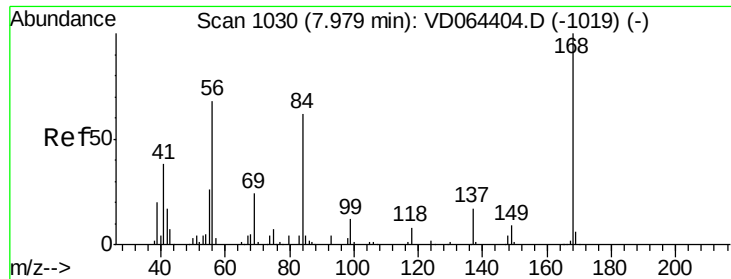
Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTD05006

Manual Integrations  
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12/11/2019 4:36:17 PM

Quant Time: Dec 11 00:51:40 2019  
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Quant Title : SW846 8260  
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VD064482.D

Acq: 10 Dec 2019 10:21

Instrument :

MSVOA\_D

ClientSampleId :

VSTD05006

Tot Ion:168 Resp: 475404

Ion Ratio Lower Upper

168 100

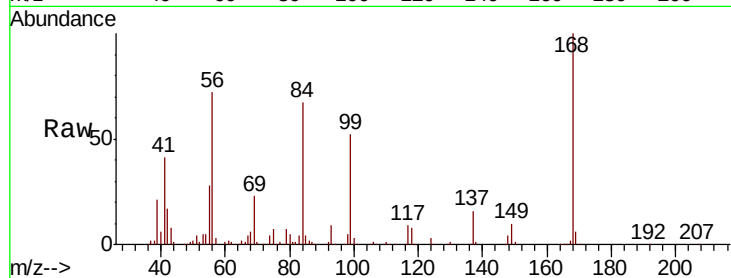
99 51.6 40.7 61.1

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

200000

150000

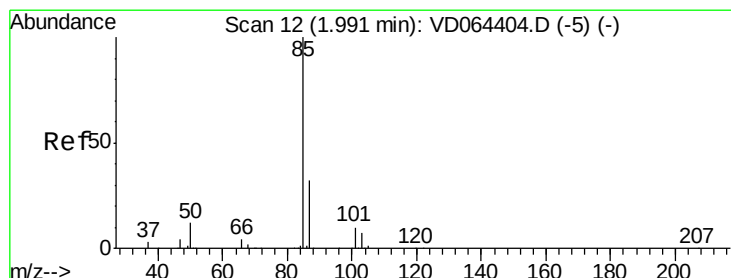
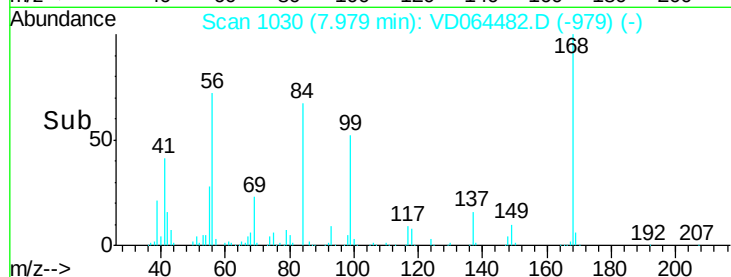
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50000

0

7.90 8.00 8.10

Time-->



#2

Dichlorodifluoromethane

Concen: 48.005 ug/l

RT: 1.99 min Scan# 12

Delta R.T. 0.00 min

Lab File: VD064482.D

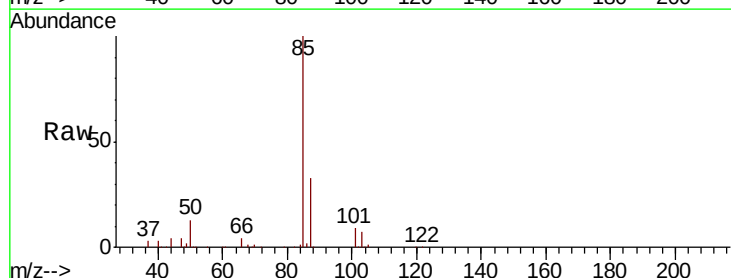
Acq: 10 Dec 2019 10:21

Tgt Ion: 85 Resp: 206786

Ion Ratio Lower Upper

85 100

87 32.6 16.1 48.2



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

150000

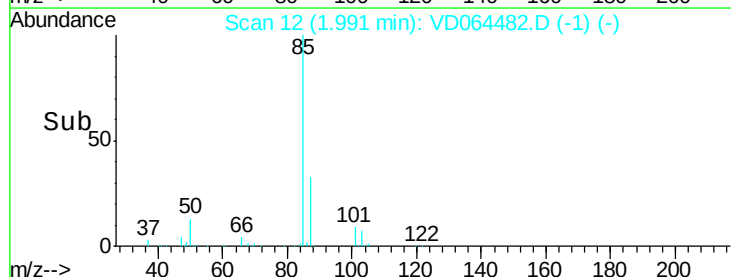
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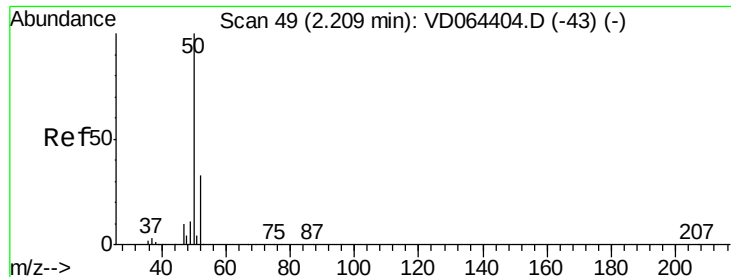
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0

1.90 1.95 2.00 2.05 2.10

Time-->





#3

Chloromethane

Concen: 47.360 ug/l

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD064482.D

Acq: 10 Dec 2019 10:21

Instrument :

MSVOA\_D

ClientSampleId :

VSTD05006

Tot Ion: 50 Resp: 257312

Ion Ratio Lower Upper

50 100

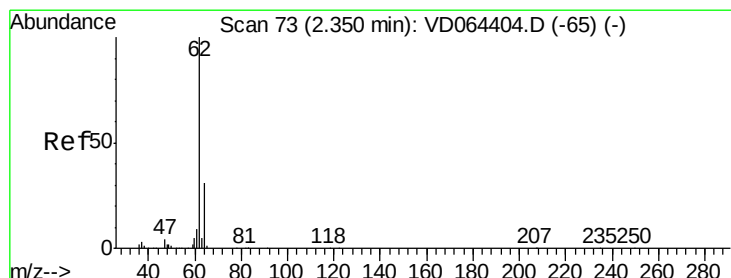
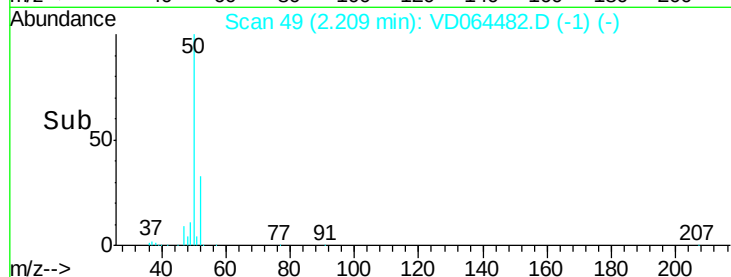
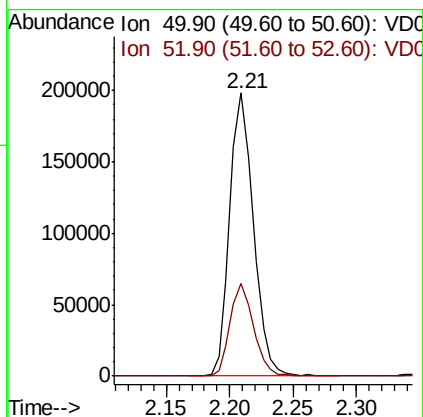
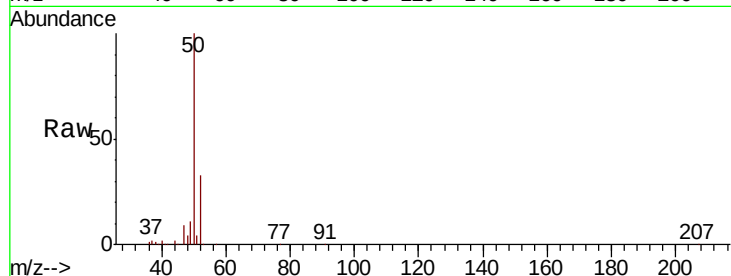
52 32.8 26.7 40.1

Manual Integrations

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#4

Vinyl Chloride

Concen: 50.506 ug/l

RT: 2.35 min Scan# 73

Delta R.T. 0.00 min

Lab File: VD064482.D

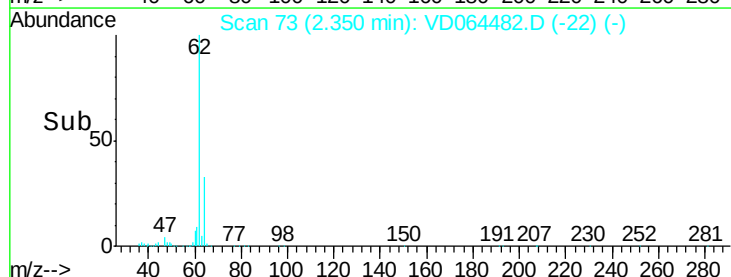
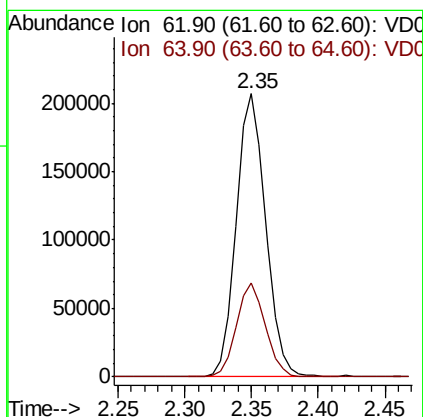
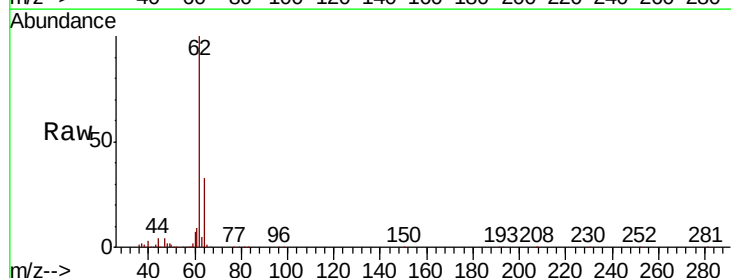
Acq: 10 Dec 2019 10:21

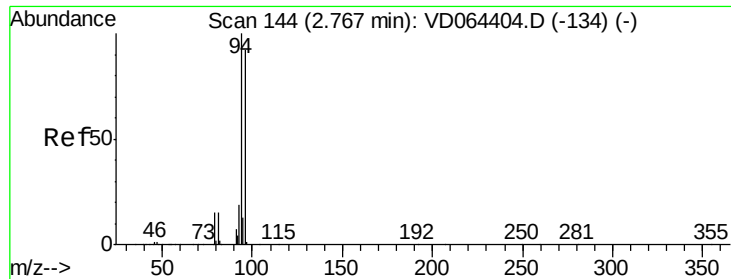
Tgt Ion: 62 Resp: 316832

Ion Ratio Lower Upper

62 100

64 33.2 25.0 37.4





#5

Bromomethane

Concen: 46.732 ug/l

RT: 2.77 min Scan# 144

Delta R.T. 0.00 min

Lab File: VD064482.D

Acq: 10 Dec 2019 10:21

Instrument :

MSVOA\_D

ClientSampleId :

VSTD05006

Tot Ion: 94 Resp: 216792

Ion Ratio Lower Upper

94 100

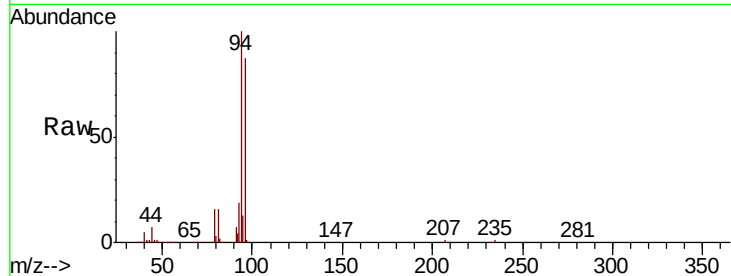
96 86.7 73.6 110.4

Manual Integrations

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Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

120000

100000

80000

60000

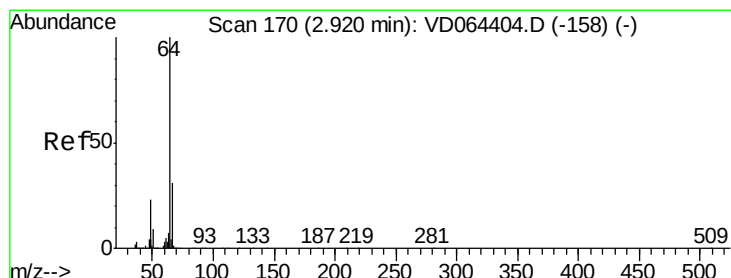
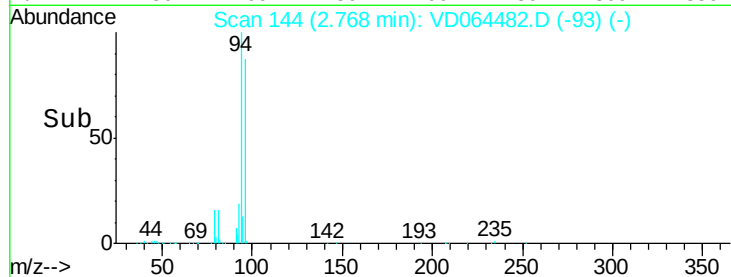
40000

20000

0

2.77

Time-->



#6

Chloroethane

Concen: 50.829 ug/l

RT: 2.92 min Scan# 170

Delta R.T. 0.00 min

Lab File: VD064482.D

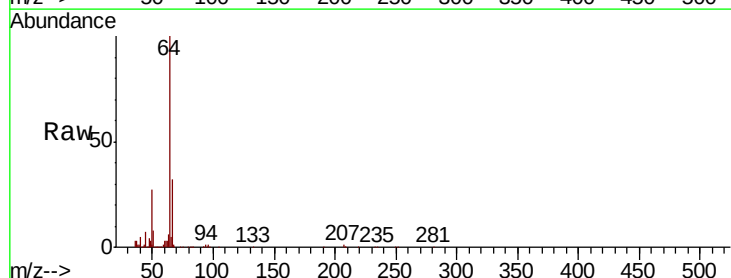
Acq: 10 Dec 2019 10:21

Tgt Ion: 64 Resp: 213123

Ion Ratio Lower Upper

64 100

66 31.6 24.6 37.0



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC

120000

100000

80000

60000

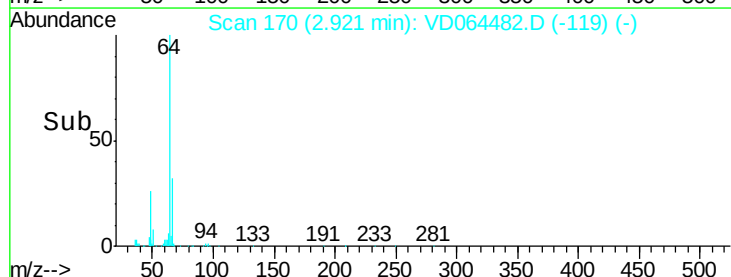
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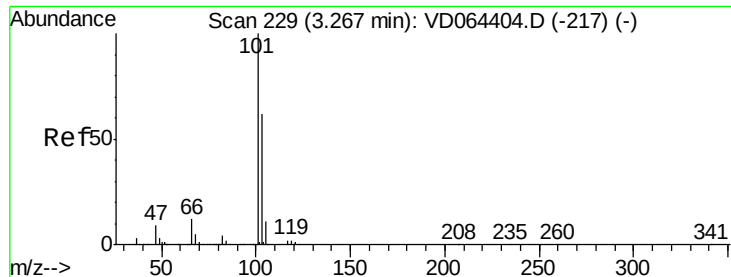
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2.92

Time-->







#7

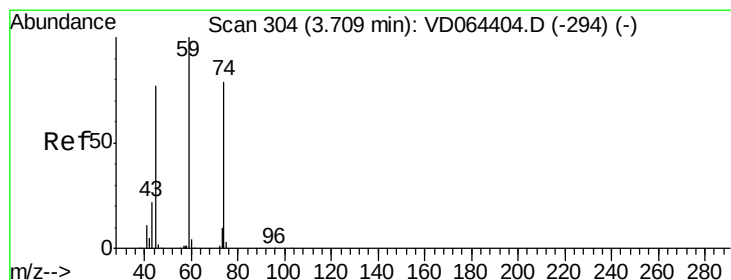
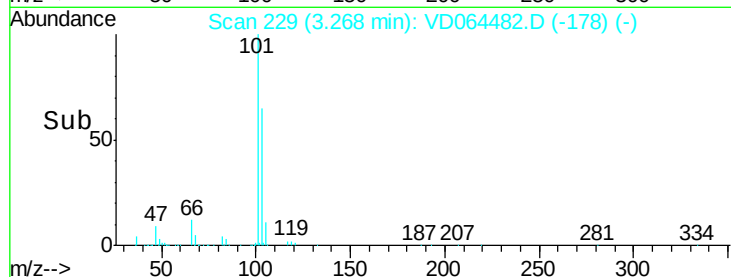
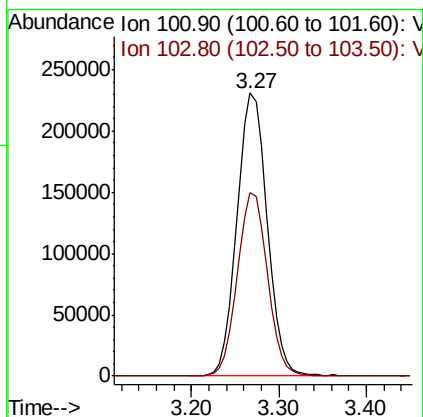
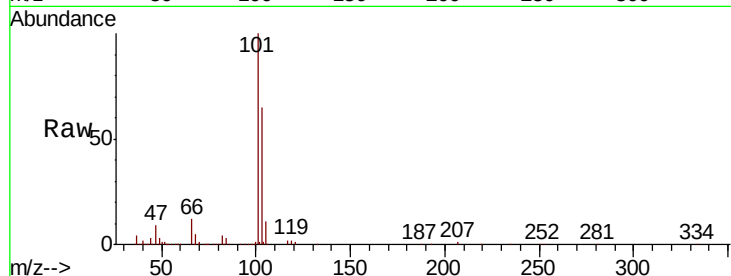
Trichlorofluoromethane  
 Concen: 51.848 ug/l  
 RT: 3.27 min Scan# 229  
 Delta R.T. 0.00 min  
 Lab File: VD064482.D  
 Acq: 10 Dec 2019 10:21

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTD05006

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 101     | 100   |       |       |
| 103     | 64.8  | 49.8  | 74.6  |

Manual Integrations  
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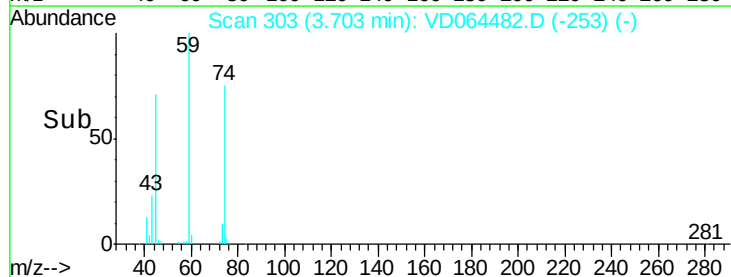
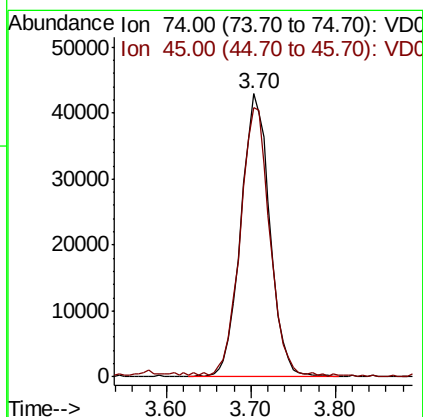
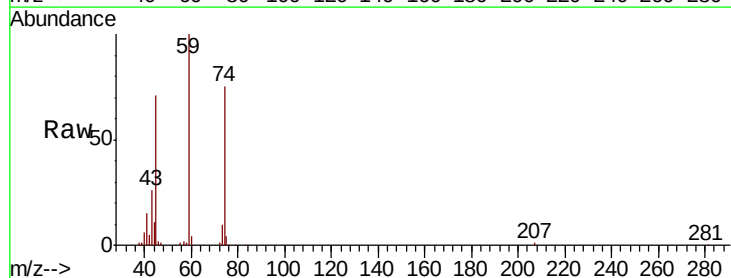
apatel  
 12/11/2019 4:36:17 PM



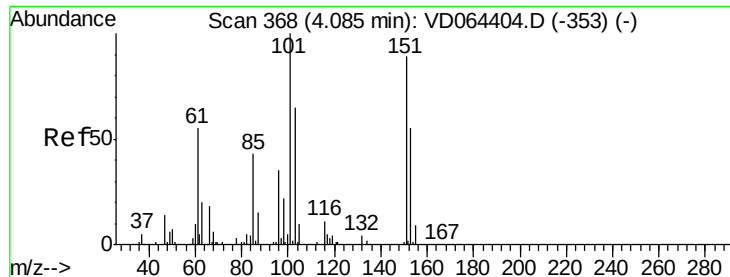
#8

Diethyl Ether  
 Concen: 47.015 ug/l  
 RT: 3.70 min Scan# 303  
 Delta R.T. -0.01 min  
 Lab File: VD064482.D  
 Acq: 10 Dec 2019 10:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 74      | 100   |       |       |
| 45      | 95.4  | 48.6  | 145.9 |







#9

1,1,2-Trichlorotrifluoroethane

Concen: 50.806 ug/l

RT: 4.09 min Scan# 368

Delta R.T. 0.00 min

Lab File: VD064482.D

Acq: 10 Dec 2019 10:21

Instrument :

MSVOA\_D

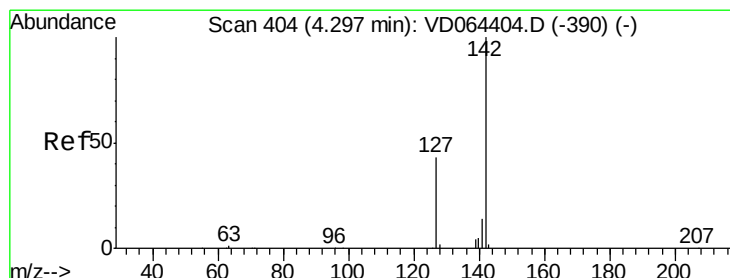
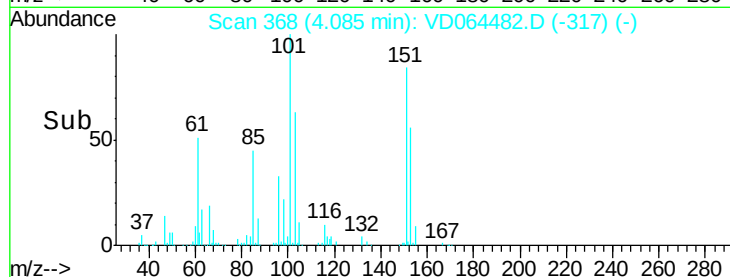
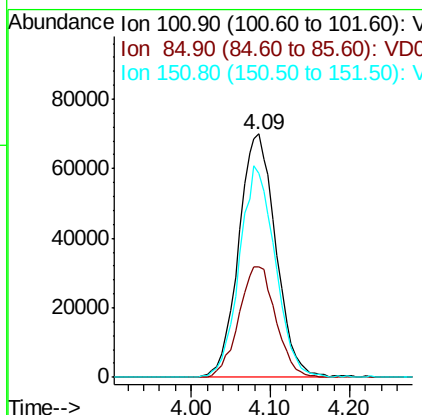
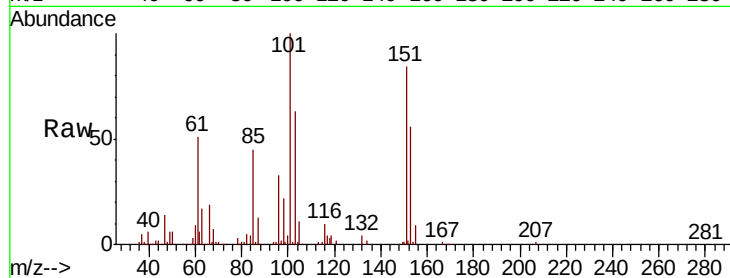
ClientSampleId :

VSTD05006

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 101   | Resp: | 227177 |
| Ion Ratio | Lower | Upper |        |
| 101       | 100   |       |        |
| 85        | 45.3  | 34.8  | 52.2   |
| 151       | 83.8  | 68.8  | 103.2  |

Manual Integrations  
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#10

Methyl Iodide

Concen: 54.317 ug/l

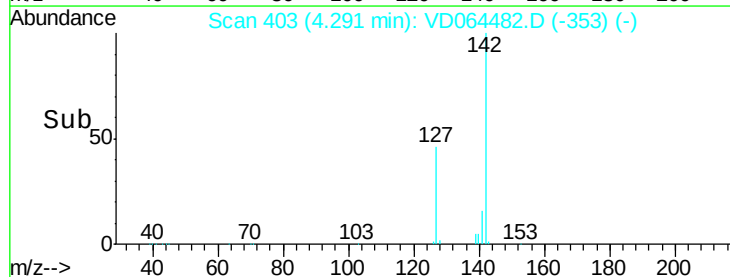
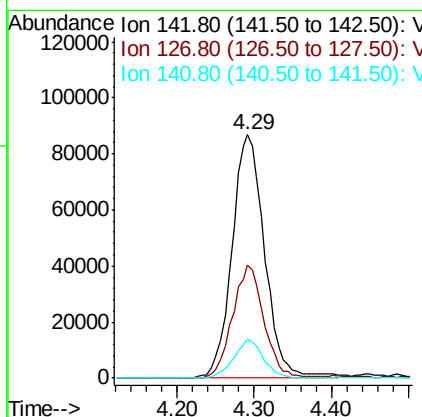
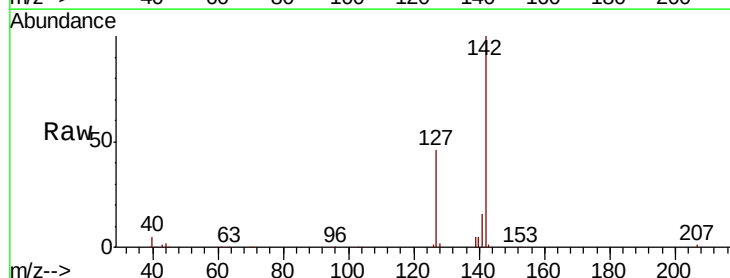
RT: 4.29 min Scan# 403

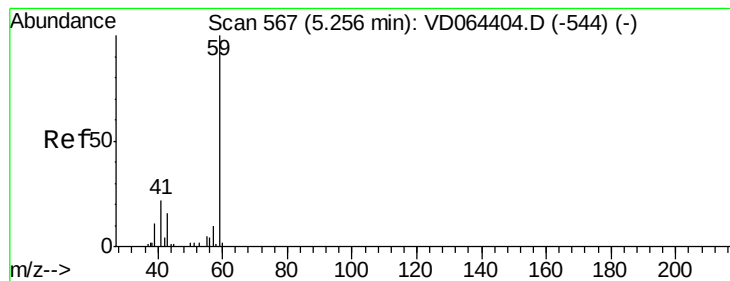
Delta R.T. -0.01 min

Lab File: VD064482.D

Acq: 10 Dec 2019 10:21

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 142   | Resp: | 256484 |
| Ion Ratio | Lower | Upper |        |
| 142       | 100   |       |        |
| 127       | 44.6  | 35.3  | 52.9   |
| 141       | 14.7  | 11.6  | 17.4   |





#11

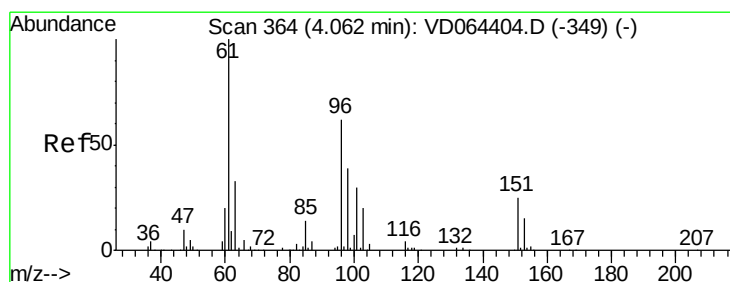
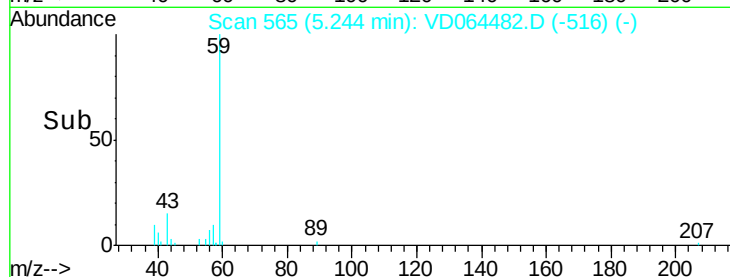
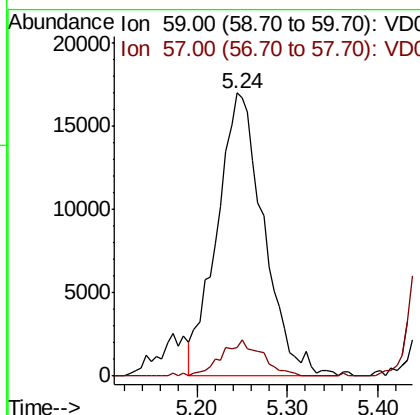
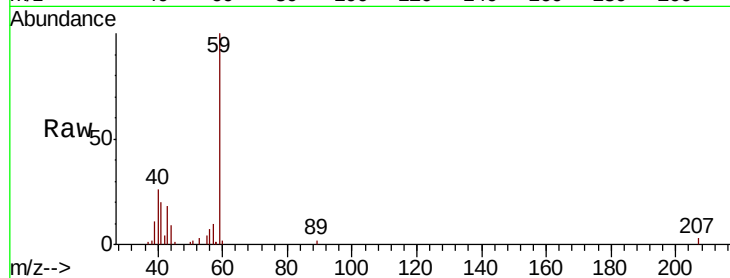
Tert butyl alcohol  
Concen: 221.927 ug/l  
RT: 5.24 min Scan# 565  
Delta R.T. -0.01 min  
Lab File: VD064482.D  
Acq: 10 Dec 2019 10:21

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTD05006

Tot Ion: 59 Resp: 60789  
Ion Ratio Lower Upper  
59 100  
57 11.0 0.0 0.0#

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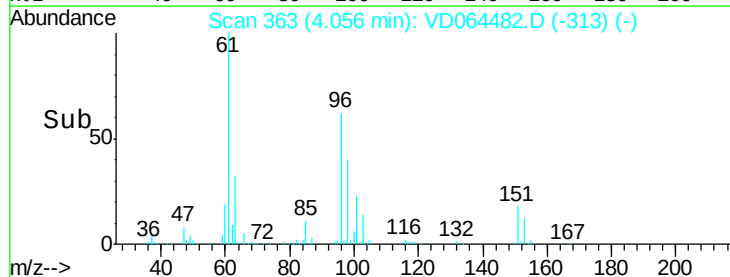
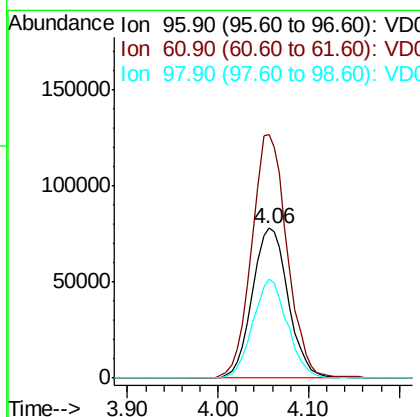
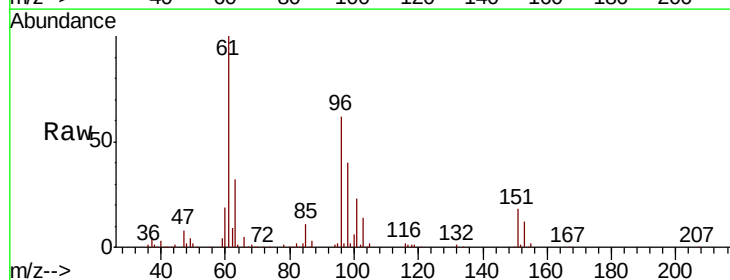
apatel  
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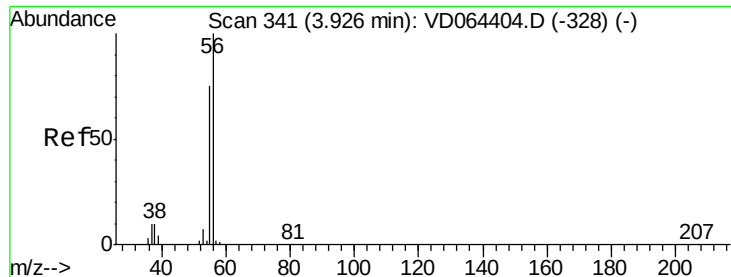


#12

1,1-Dichloroethene  
Concen: 50.158 ug/l  
RT: 4.06 min Scan# 363  
Delta R.T. -0.01 min  
Lab File: VD064482.D  
Acq: 10 Dec 2019 10:21

Tgt Ion: 96 Resp: 214930  
Ion Ratio Lower Upper  
96 100  
61 162.2 128.2 192.4  
98 65.6 50.4 75.6





#13

Acrolein

Concen: 263.526 ug/l

RT: 3.93 min Scan# 341

Delta R.T. 0.00 min

Lab File: VD064482.D

Acq: 10 Dec 2019 10:21

Instrument :

MSVOA\_D

ClientSampleId :

VSTD05006

Tot Ion: 56 Resp: 98457

Ion Ratio Lower Upper

56 100

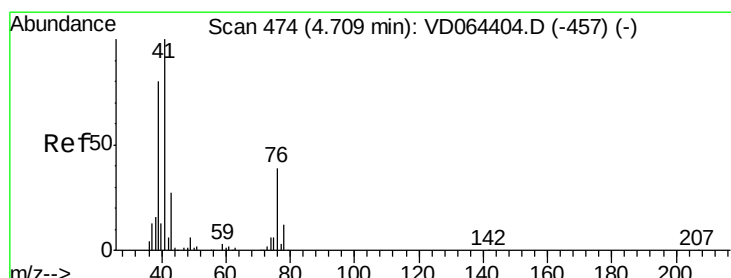
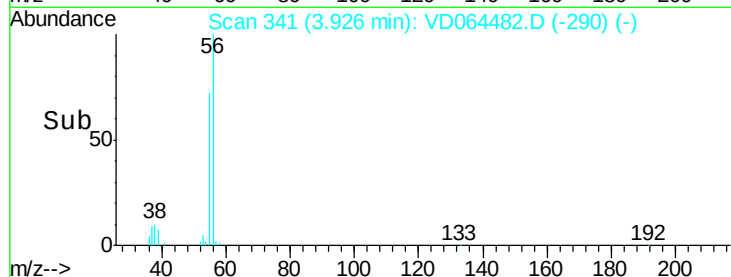
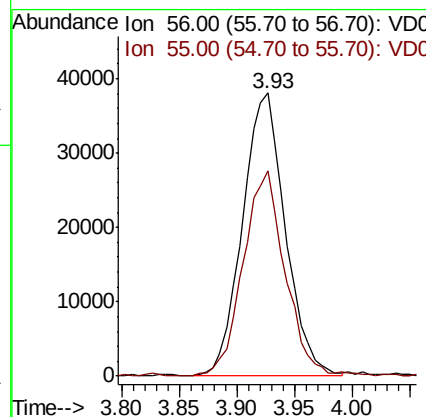
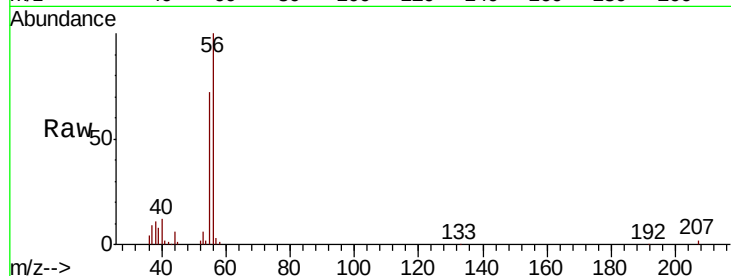
55 70.3 56.9 85.3

Manual Integrations

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#14

Allyl chloride

Concen: 51.679 ug/l

RT: 4.71 min Scan# 474

Delta R.T. 0.00 min

Lab File: VD064482.D

Acq: 10 Dec 2019 10:21

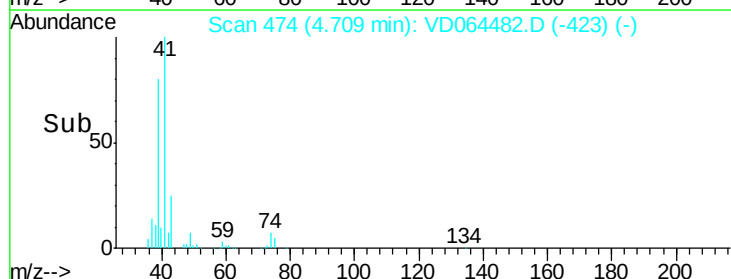
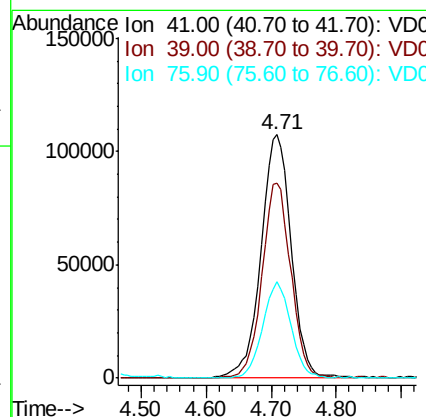
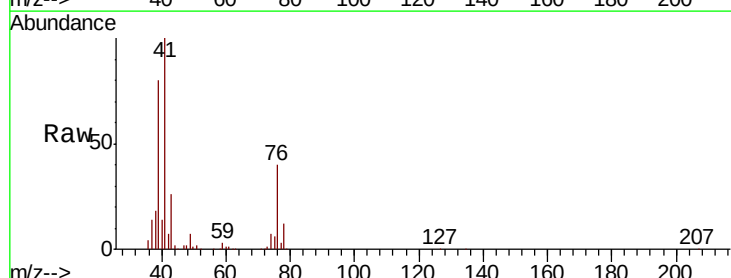
Tgt Ion: 41 Resp: 345594

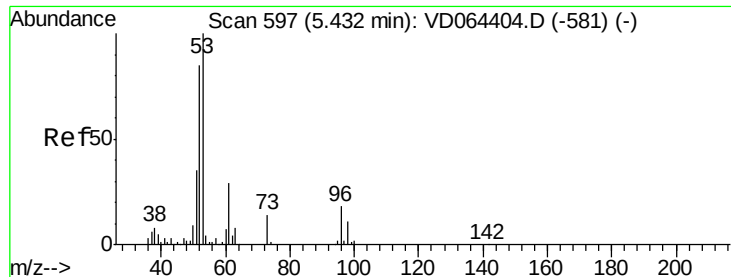
Ion Ratio Lower Upper

41 100

39 76.4 62.1 93.1

76 36.5 29.8 44.8





#15

Acrylonitrile

Concen: 235.297 ug/l

RT: 5.43 min Scan# 596

Delta R.T. -0.01 min

Lab File: VD064482.D

Acq: 10 Dec 2019 10:21

Instrument :

MSVOA\_D

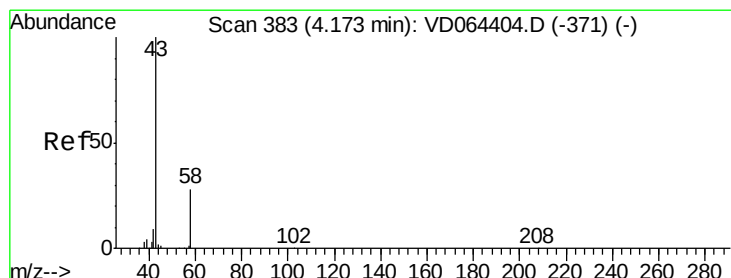
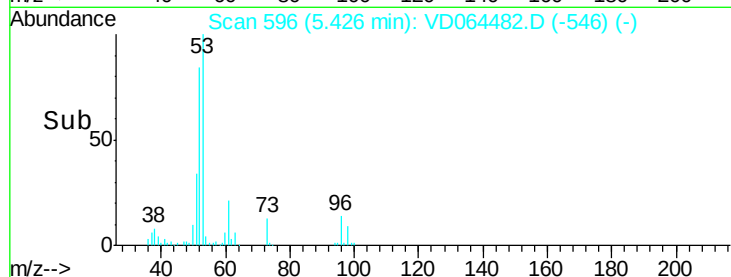
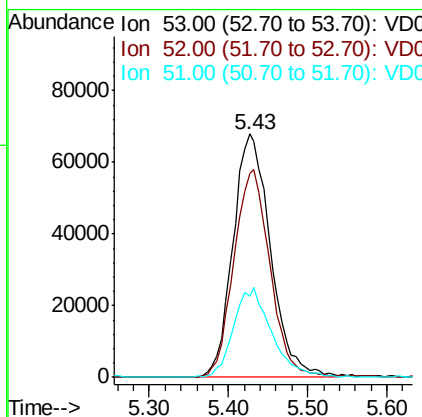
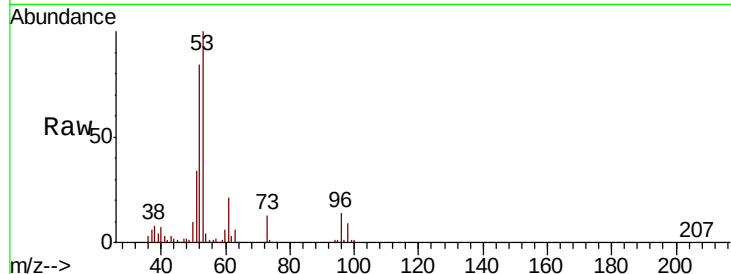
ClientSampleId :

VSTD05006

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 53    | Resp: | 222975 |
| Ion Ratio | Lower | Upper |        |
| 53        | 100   |       |        |
| 52        | 83.0  | 67.9  | 101.9  |
| 51        | 37.5  | 30.6  | 45.8   |

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#16

Acetone

Concen: 292.673 ug/l

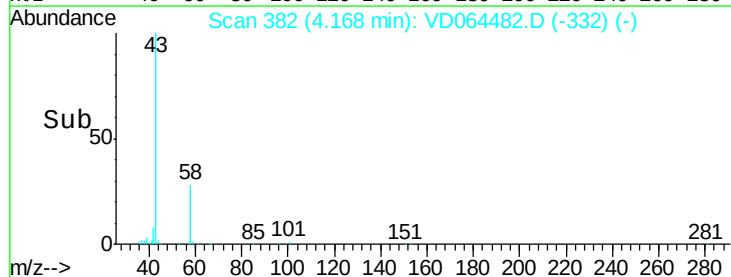
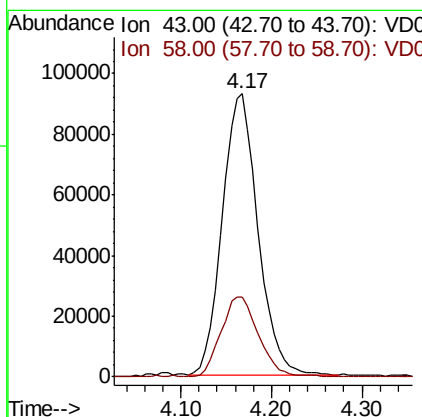
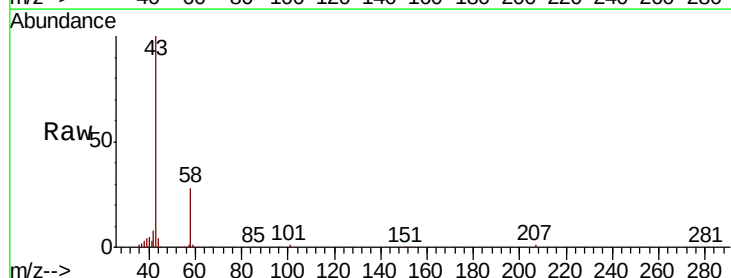
RT: 4.17 min Scan# 382

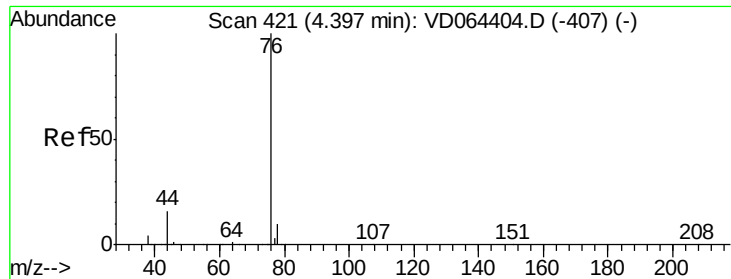
Delta R.T. -0.01 min

Lab File: VD064482.D

Acq: 10 Dec 2019 10:21

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 43    | Resp: | 254500 |
| Ion Ratio | Lower | Upper |        |
| 43        | 100   |       |        |
| 58        | 28.0  | 22.6  | 33.8   |





#17

Carbon Disulfide

Concen: 50.050 ug/l

RT: 4.40 min Scan# 421

Delta R.T. 0.00 min

Lab File: VD064482.D

Acq: 10 Dec 2019 10:21

Instrument :

MSVOA\_D

ClientSampleId :

VSTD05006

Tot Ion: 76 Resp: 679253

Ion Ratio Lower Upper

76 100

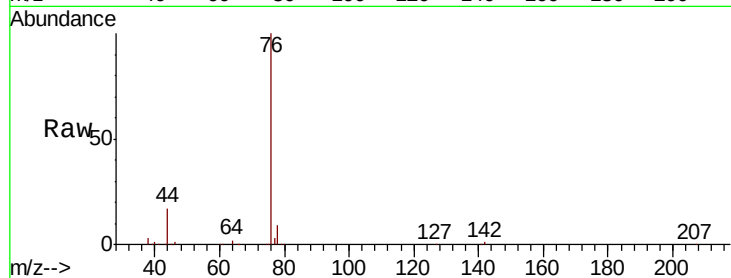
78 9.0 7.8 11.8

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Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC

250000

200000

150000

100000

50000

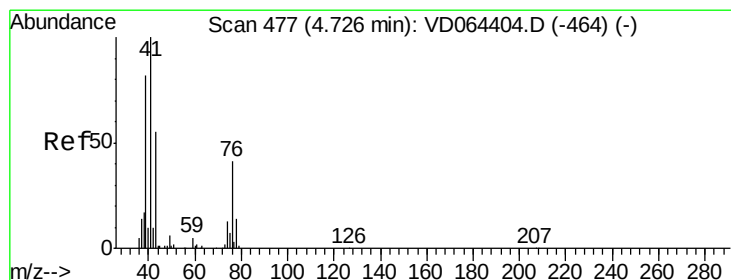
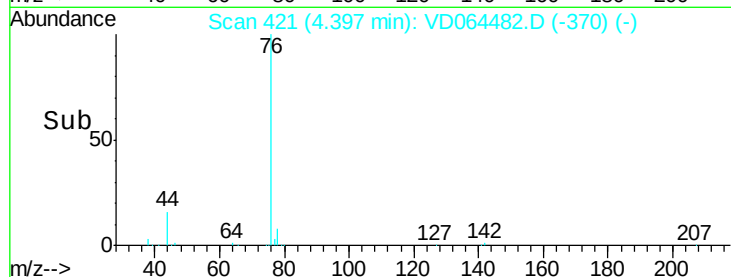
0

4.30

4.40

4.50

Time-->



#18

Methyl Acetate

Concen: 44.332 ug/l

RT: 4.72 min Scan# 476

Delta R.T. -0.01 min

Lab File: VD064482.D

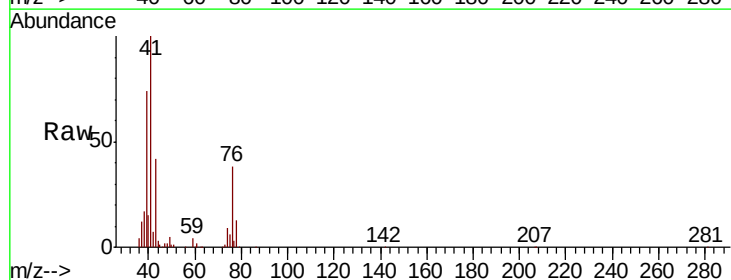
Acq: 10 Dec 2019 10:21

Tgt Ion: 43 Resp: 112446

Ion Ratio Lower Upper

43 100

74 25.0 19.7 29.5



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC

40000

30000

20000

10000

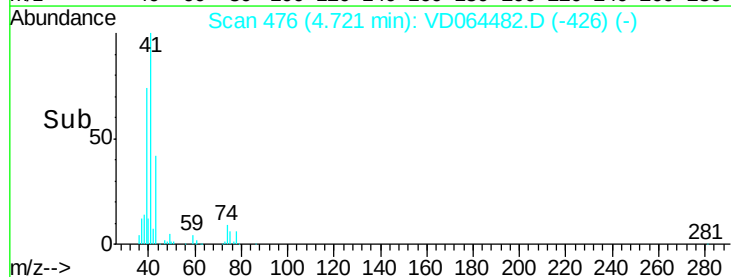
0

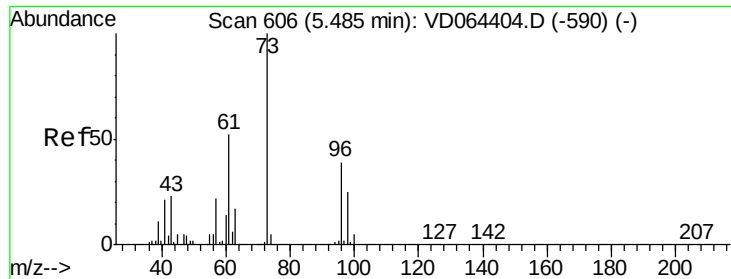
4.60

4.70

4.80

Time-->





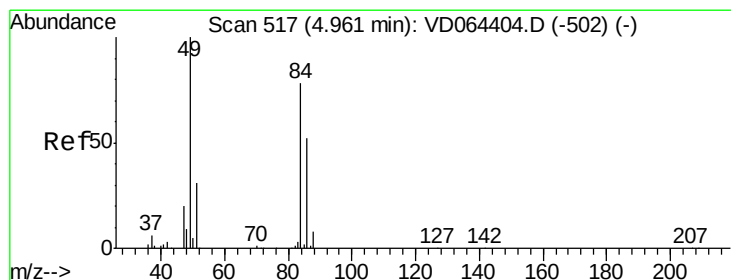
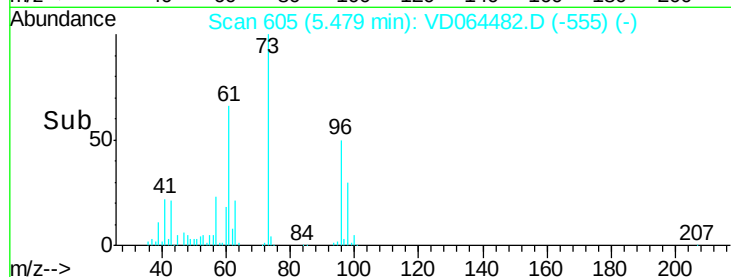
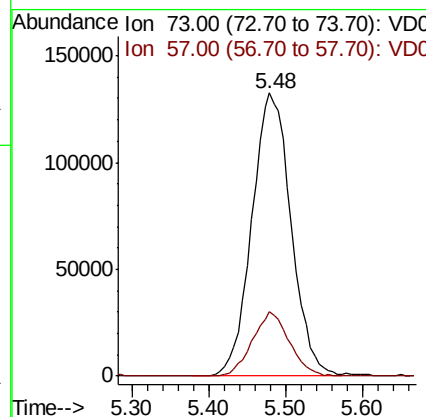
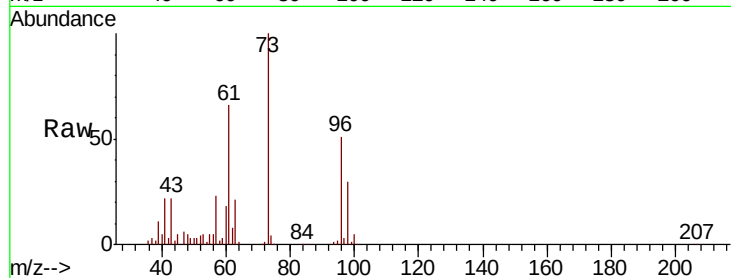
#19  
Methyl tert-butyl Ether  
Concen: 47.931 ug/l  
RT: 5.48 min Scan# 605  
Delta R.T. -0.01 min  
Lab File: VD064482.D  
Acq: 10 Dec 2019 10:21

Instrument :  
MSVOA\_D  
ClientSampled :  
VSTD05006

Tot Ion: 73 Resp: 471124  
Ion Ratio Lower Upper  
73 100  
57 22.9 17.6 26.4

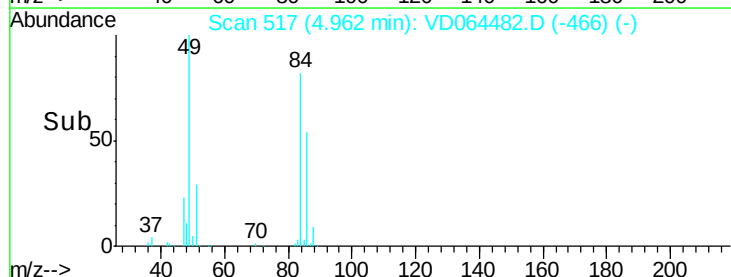
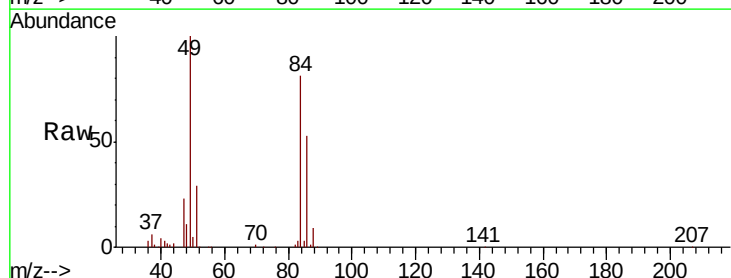
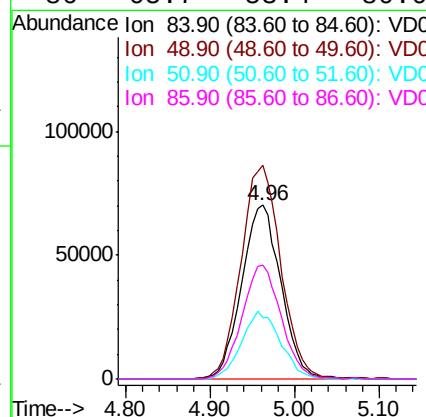
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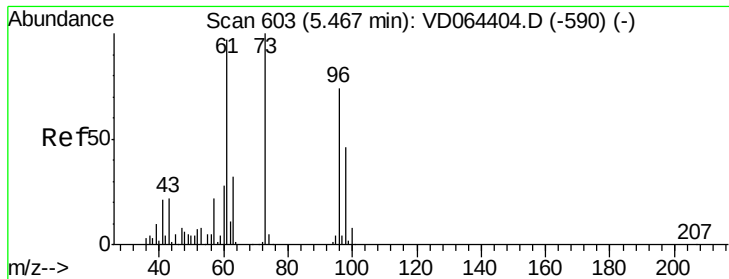
apatel  
12/11/2019 4:36:17 PM



#20  
Methylene Chloride  
Concen: 51.239 ug/l  
RT: 4.96 min Scan# 517  
Delta R.T. 0.00 min  
Lab File: VD064482.D  
Acq: 10 Dec 2019 10:21

Tgt Ion: 84 Resp: 225903  
Ion Ratio Lower Upper  
84 100  
49 123.0 102.6 153.8  
51 35.4 32.0 48.0  
86 65.7 53.4 80.0





#21

trans-1,2-Dichloroethene

Concen: 49.919 ug/l

RT: 5.47 min Scan# 603

Delta R.T. 0.00 min

Lab File: VD064482.D

Acq: 10 Dec 2019 10:21

Instrument :

MSVOA\_D

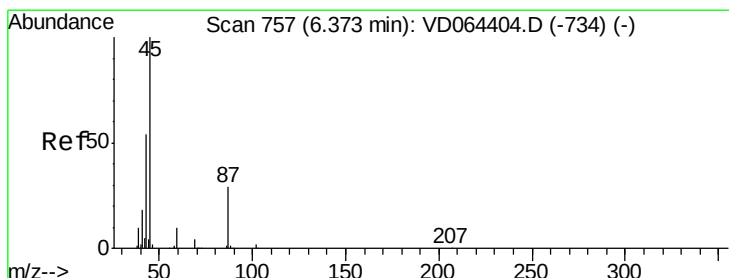
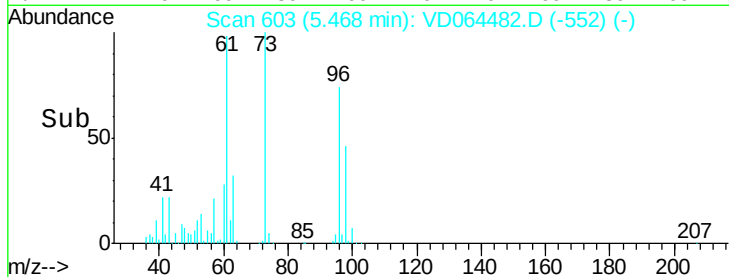
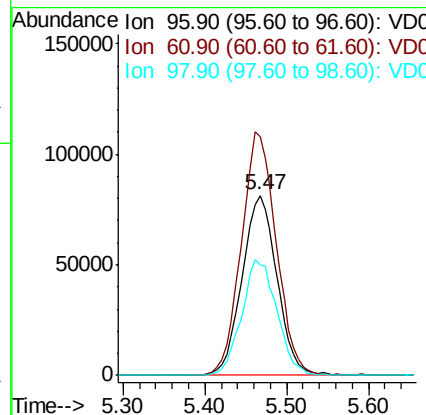
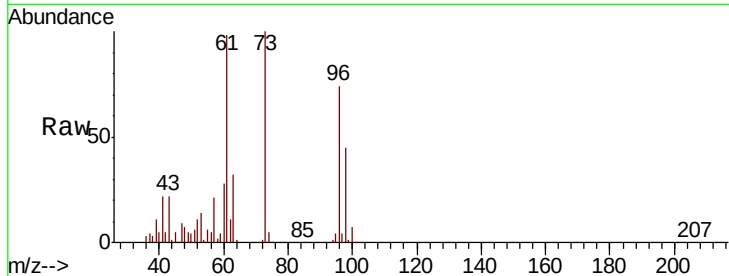
ClientSampleId :

VSTD05006

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 96    | Resp: | 241958 |
| Ion      | Ratio | Lower | Upper  |
| 96       | 100   |       |        |
| 61       | 132.2 | 105.8 | 158.6  |
| 98       | 61.5  | 50.1  | 75.1   |

Manual Integrations  
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#22

Diisopropyl ether

Concen: 50.196 ug/l

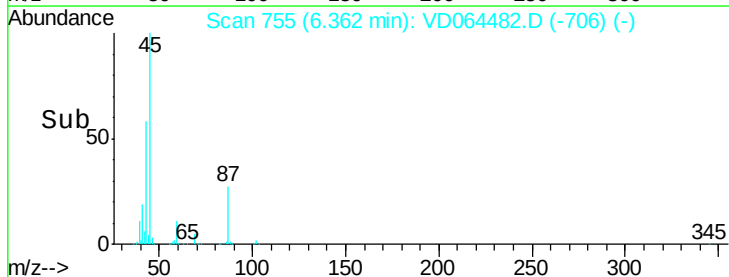
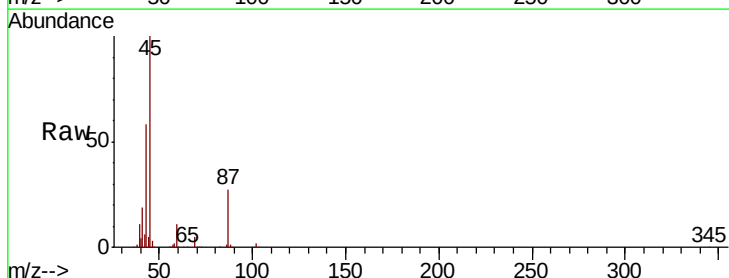
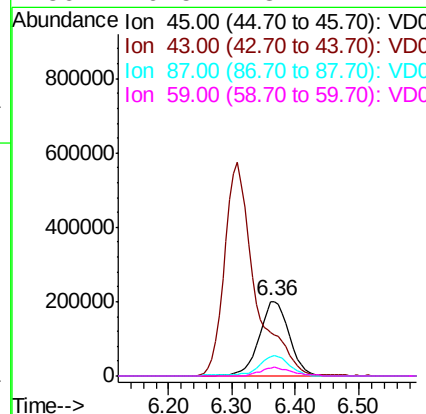
RT: 6.36 min Scan# 755

Delta R.T. -0.01 min

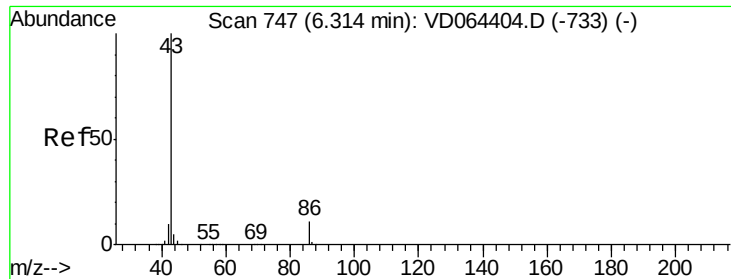
Lab File: VD064482.D

Acq: 10 Dec 2019 10:21

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 45    | Resp: | 662670 |
| Ion      | Ratio | Lower | Upper  |
| 45       | 100   |       |        |
| 43       | 58.1  | 43.1  | 64.7   |
| 87       | 26.5  | 23.5  | 35.3   |
| 59       | 10.5  | 8.2   | 12.2   |







#23

Vinyl Acetate

Concen: 246.838 ug/l

RT: 6.31 min Scan# 746

Delta R.T. -0.01 min

Lab File: VD064482.D

Acq: 10 Dec 2019 10:21

Instrument :

MSVOA\_D

ClientSampleId :

VSTD05006

Tot Ion: 43 Resp: 1921110

Ion Ratio Lower Upper

43 100

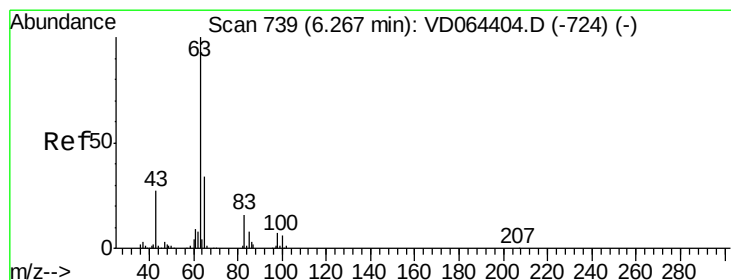
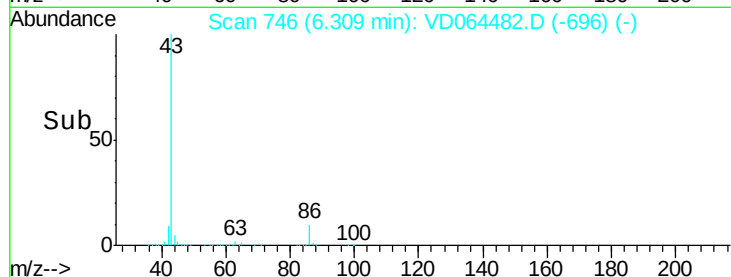
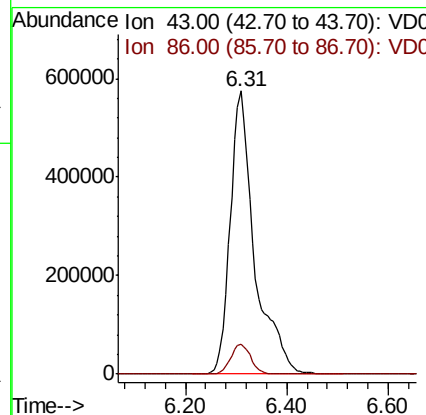
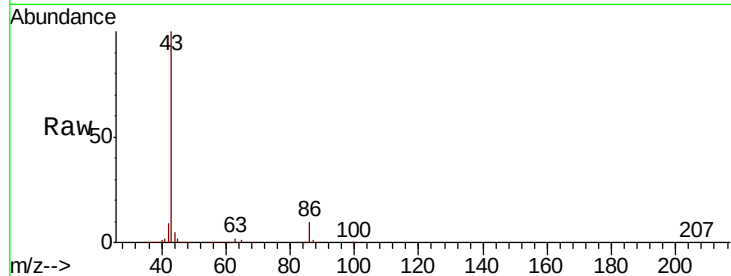
86 10.4 8.9 13.3

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#24

1,1-Dichloroethane

Concen: 50.881 ug/l

RT: 6.26 min Scan# 738

Delta R.T. -0.01 min

Lab File: VD064482.D

Acq: 10 Dec 2019 10:21

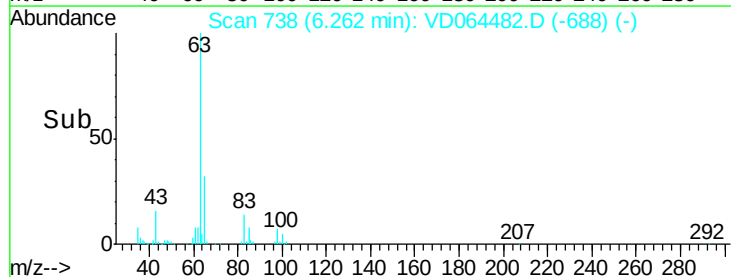
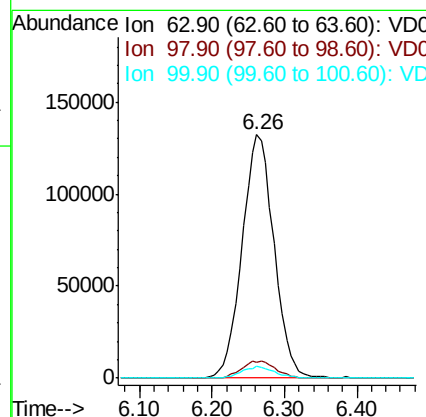
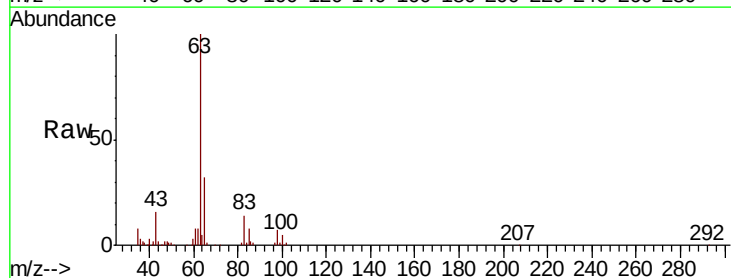
Tgt Ion: 63 Resp: 403964

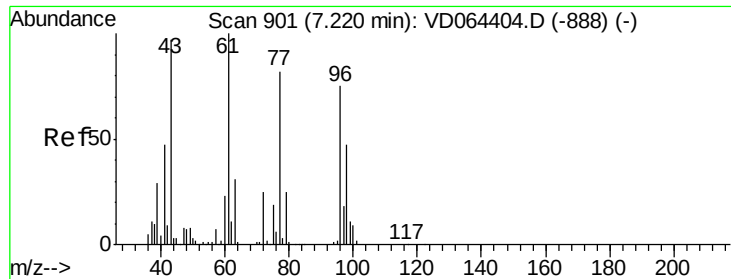
Ion Ratio Lower Upper

63 100

98 6.5 3.6 10.9

100 4.7 2.9 8.6





#25

2-Butanone

Concen: 243.450 ug/l

RT: 7.22 min Scan# 901

Delta R.T. 0.00 min

Lab File: VD064482.D

Acq: 10 Dec 2019 10:21

Instrument :

MSVOA\_D

ClientSampled :

VSTD05006

Tot Ion: 43 Resp: 299383

Ion Ratio Lower Upper

43 100

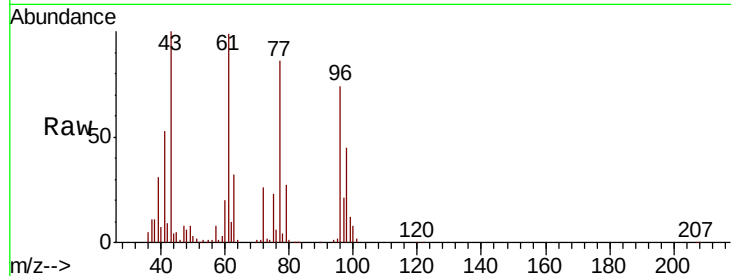
72 26.0 21.0 31.4

Manual Integrations

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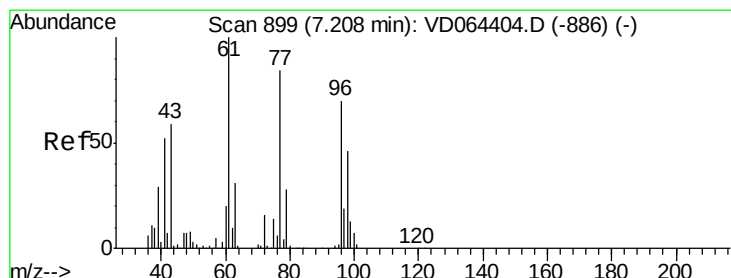
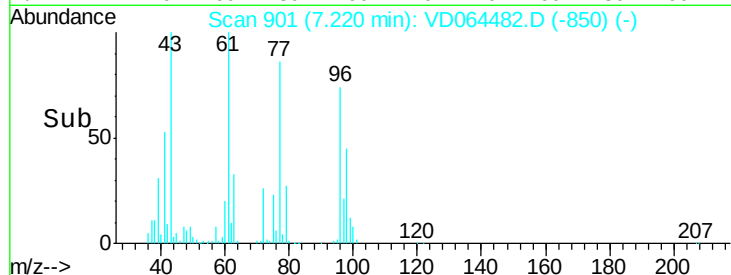
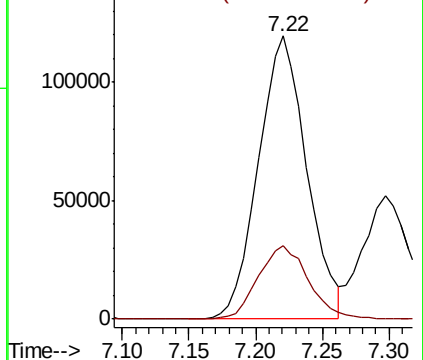
apatel

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Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 54.489 ug/l

RT: 7.21 min Scan# 899

Delta R.T. 0.00 min

Lab File: VD064482.D

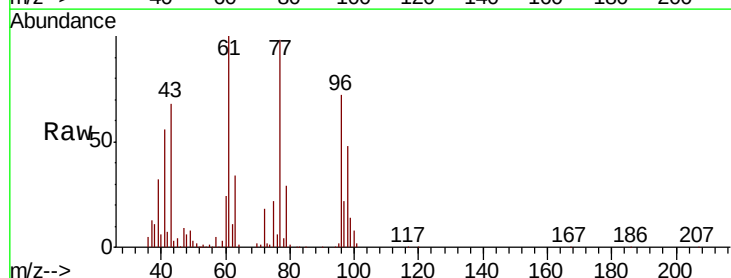
Acq: 10 Dec 2019 10:21

Tgt Ion: 77 Resp: 376220

Ion Ratio Lower Upper

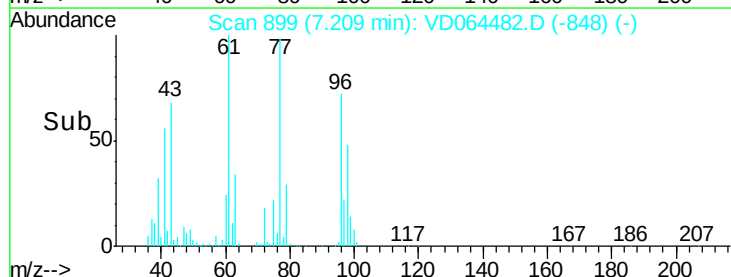
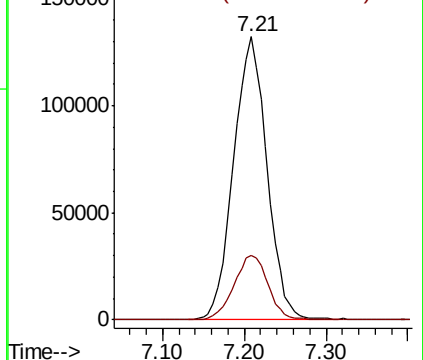
77 100

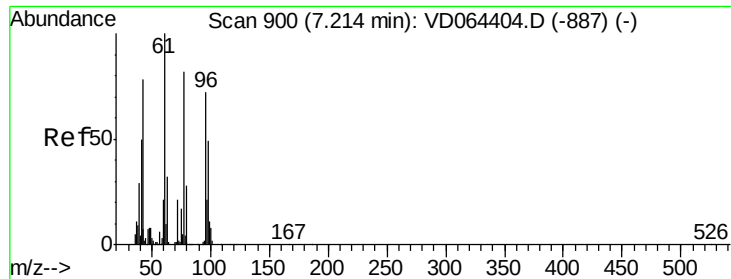
97 23.1 11.6 34.7



Abundance Ion 76.90 (76.60 to 77.60): VDC

Ion 96.90 (96.60 to 97.60): VDC





#27

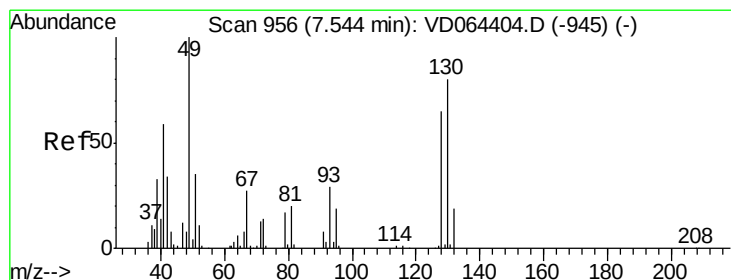
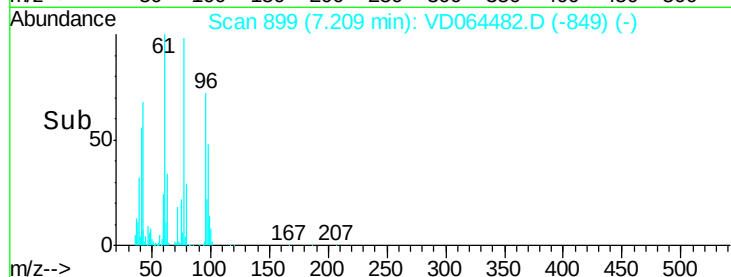
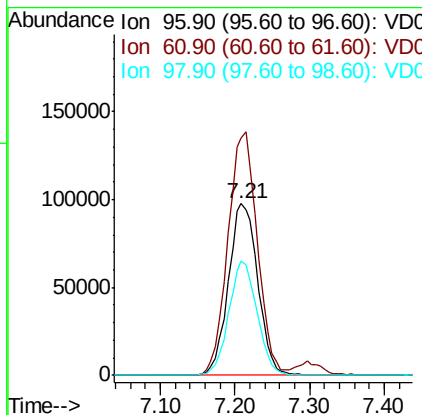
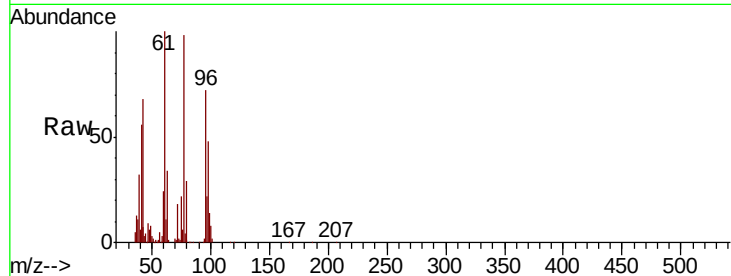
cis-1,2-Dichloroethene  
Concen: 50.563 ug/l  
RT: 7.21 min Scan# 899  
Delta R.T. -0.01 min  
Lab File: VD064482.D  
Acq: 10 Dec 2019 10:21

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTD05006

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 142.3 | 0.0   | 279.6 |
| 98      | 64.3  | 0.0   | 129.2 |

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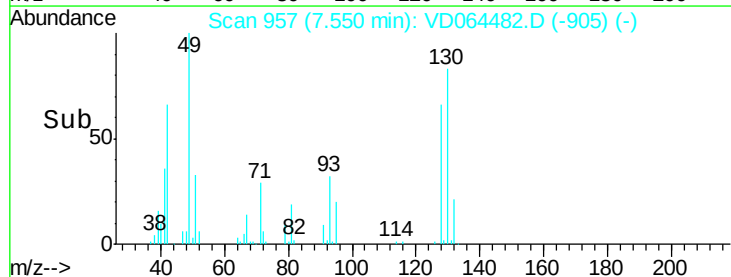
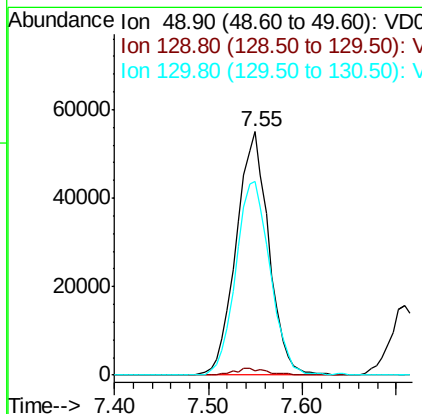
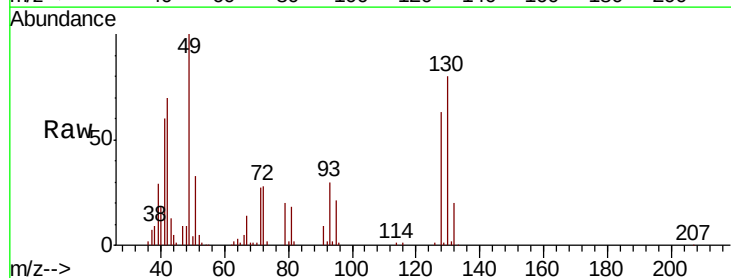
apatel  
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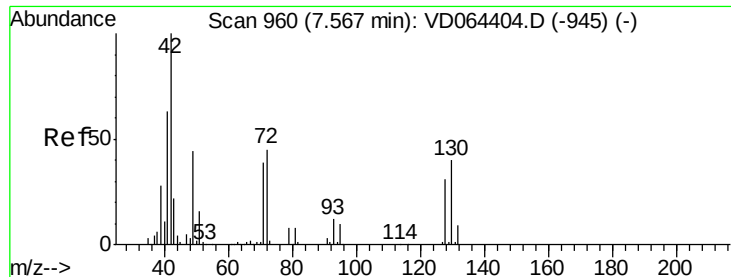


#28

Bromochloromethane  
Concen: 48.763 ug/l  
RT: 7.55 min Scan# 957  
Delta R.T. 0.01 min  
Lab File: VD064482.D  
Acq: 10 Dec 2019 10:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 49      | 100   |       |       |
| 129     | 2.6   | 0.0   | 4.4   |
| 130     | 83.9  | 67.4  | 101.0 |





#29

Tetrahydrofuran

Concen: 227.970 ug/l

RT: 7.57 min Scan# 960

Delta R.T. 0.00 min

Lab File: VD064482.D

Acq: 10 Dec 2019 10:21

Instrument :

MSVOA\_D

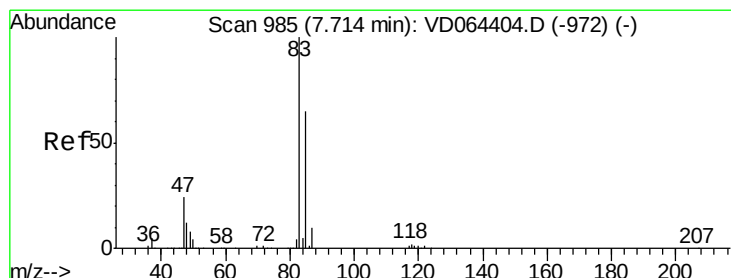
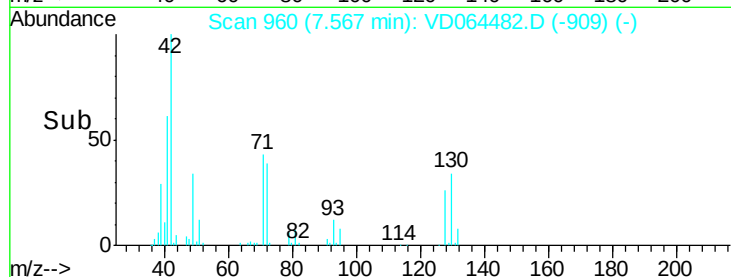
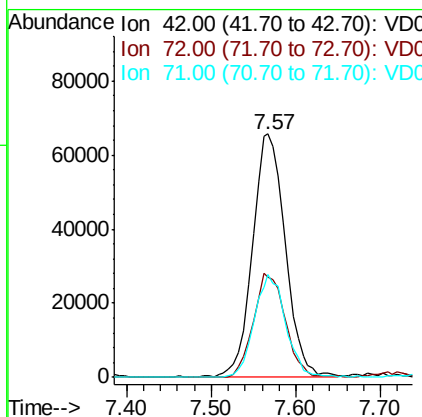
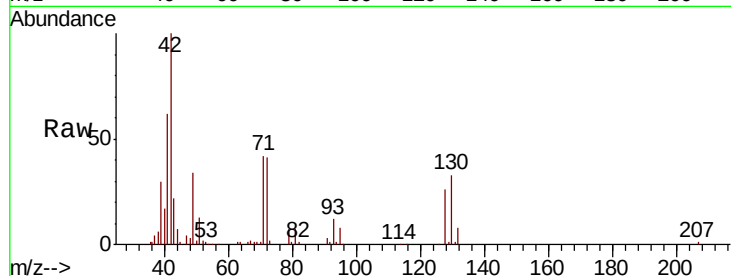
ClientSampleId :

VSTD05006

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 42    | Resp: | 178363 |
| Ion      | Ratio | Lower | Upper  |
| 42       | 100   |       |        |
| 72       | 41.8  | 35.8  | 53.8   |
| 71       | 40.4  | 32.7  | 49.1   |

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#30

Chloroform

Concen: 50.040 ug/l

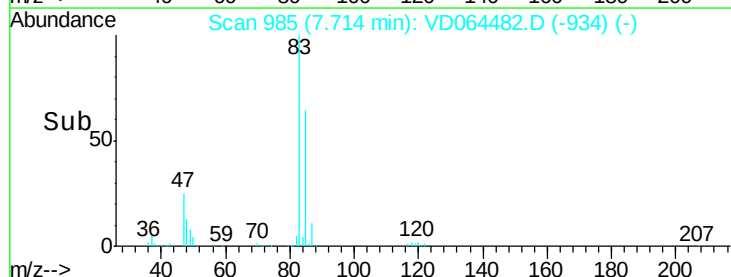
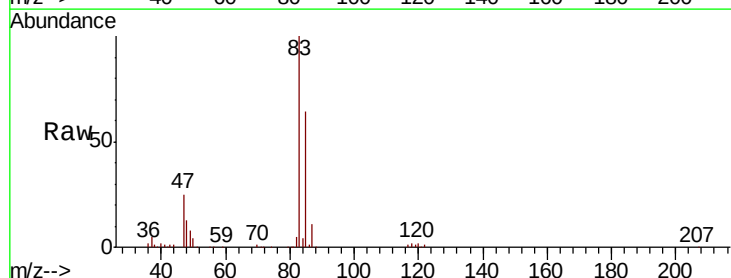
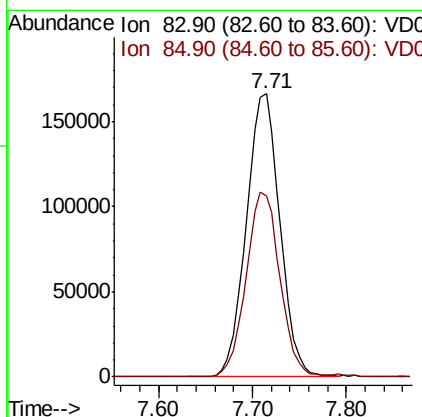
RT: 7.71 min Scan# 985

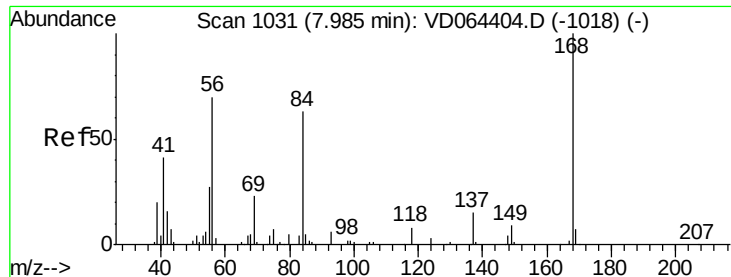
Delta R.T. 0.00 min

Lab File: VD064482.D

Acq: 10 Dec 2019 10:21

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 83    | Resp: | 411446 |
| Ion      | Ratio | Lower | Upper  |
| 83       | 100   |       |        |
| 85       | 64.1  | 51.8  | 77.6   |





#31

Cyclohexane

Concen: 55.665 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VD064482.D

Acq: 10 Dec 2019 10:21

Instrument :

MSVOA\_D

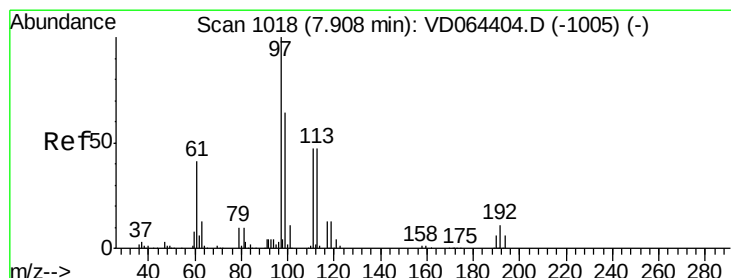
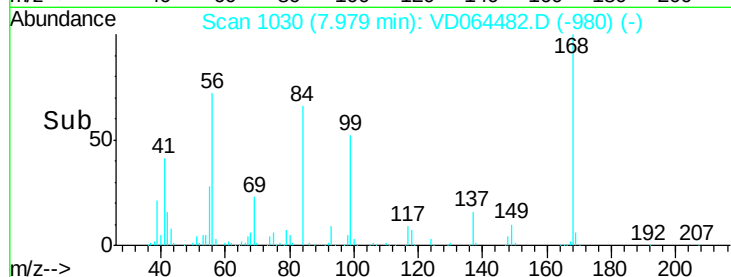
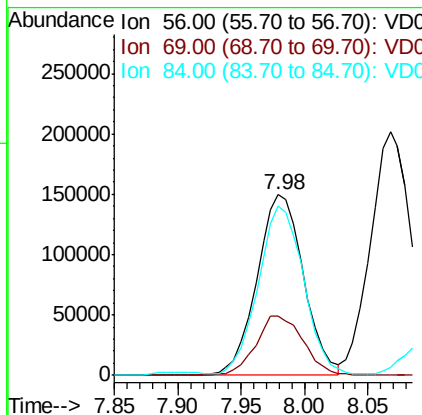
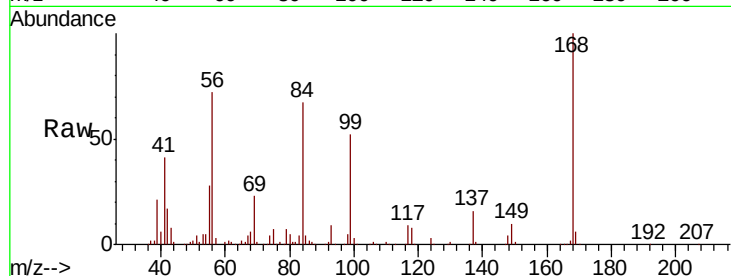
ClientSampleID :

VSTD05006

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 56    | Resp: | 382242 |
| Ion Ratio | Lower | Upper |        |
| 56        | 100   |       |        |
| 69        | 32.6  | 26.2  | 39.4   |
| 84        | 91.9  | 70.3  | 105.5  |

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#32

1,1,1-Trichloroethane

Concen: 52.144 ug/l

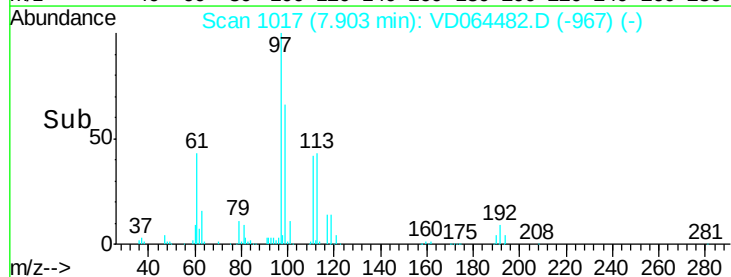
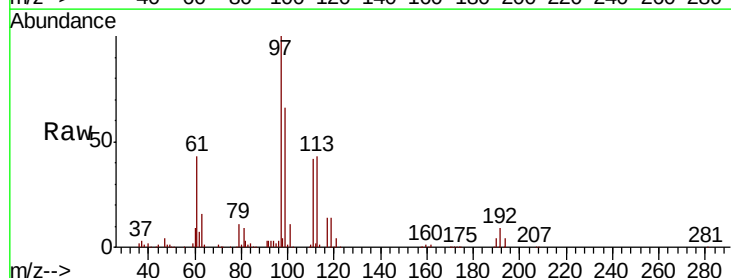
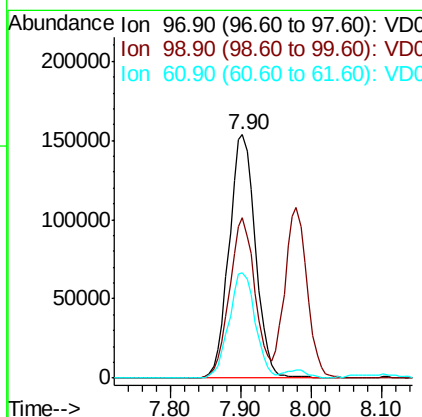
RT: 7.90 min Scan# 1017

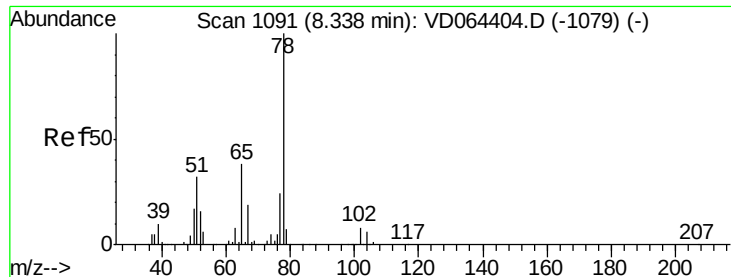
Delta R.T. -0.01 min

Lab File: VD064482.D

Acq: 10 Dec 2019 10:21

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 97    | Resp: | 397498 |
| Ion Ratio | Lower | Upper |        |
| 97        | 100   |       |        |
| 99        | 64.3  | 51.4  | 77.2   |
| 61        | 43.1  | 35.0  | 52.4   |





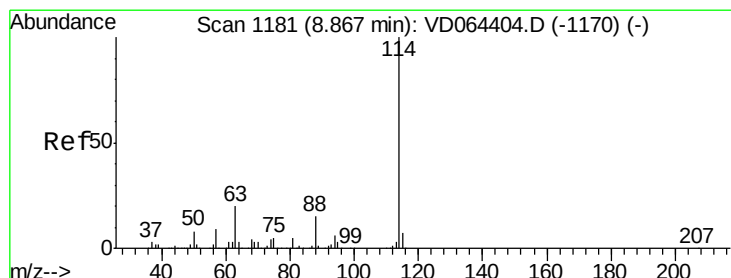
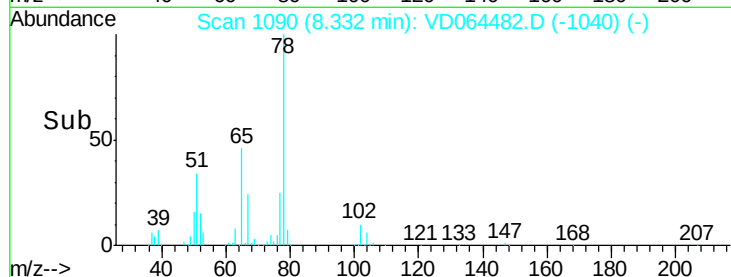
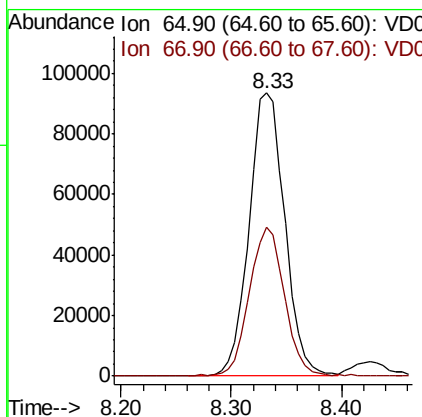
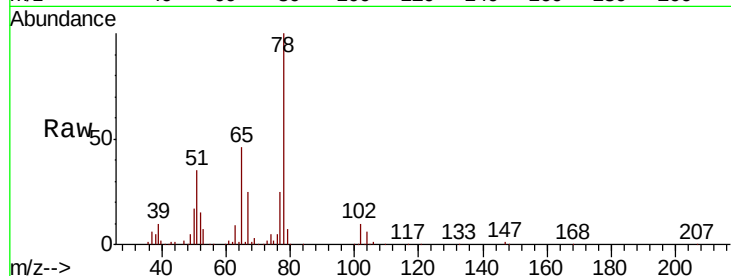
#33  
 1,2-Dichloroethane-d4  
 Concen: 49.403 ug/l  
 RT: 8.33 min Scan# 1090  
 Delta R.T. -0.01 min  
 Lab File: VD064482.D  
 Acq: 10 Dec 2019 10:21

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTD05006

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 65      | 100   | 212587 |       |       |
| 67      | 51.9  | 0.0    | 102.0 |       |

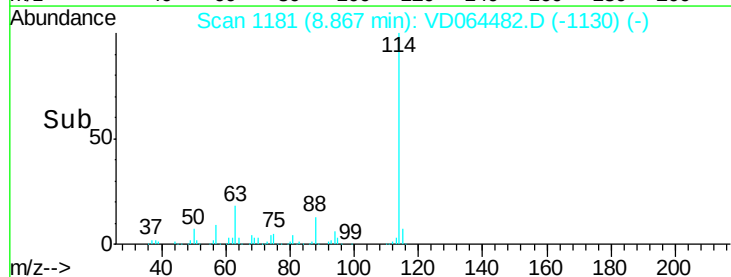
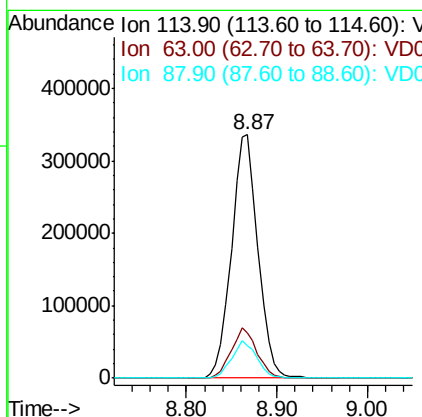
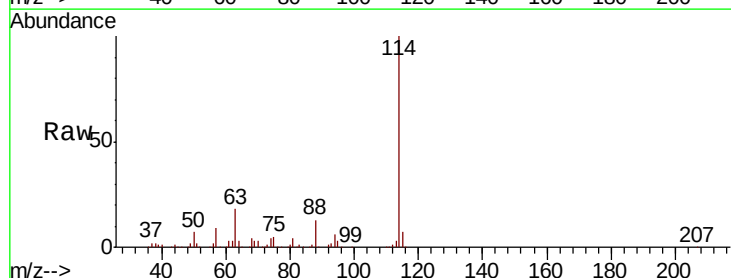
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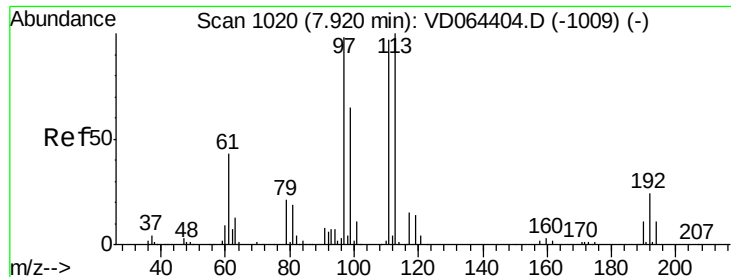
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#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.87 min Scan# 1181  
 Delta R.T. 0.00 min  
 Lab File: VD064482.D  
 Acq: 10 Dec 2019 10:21

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 114     | 100   | 681389 |       |       |
| 63      | 18.4  | 0.0    | 40.0  |       |
| 88      | 13.3  | 0.0    | 29.2  |       |





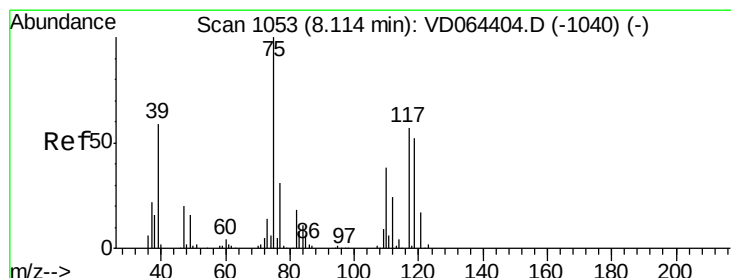
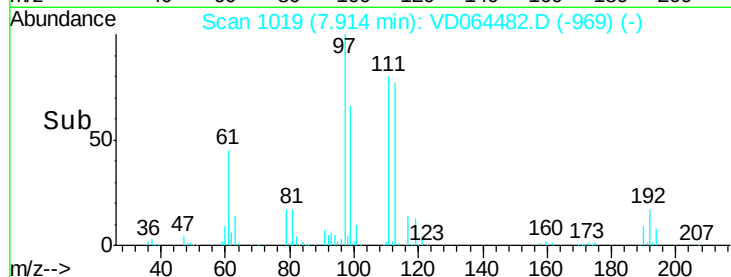
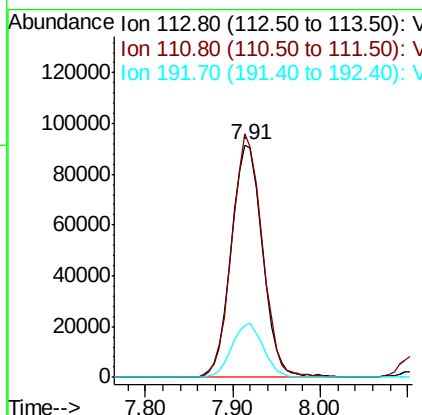
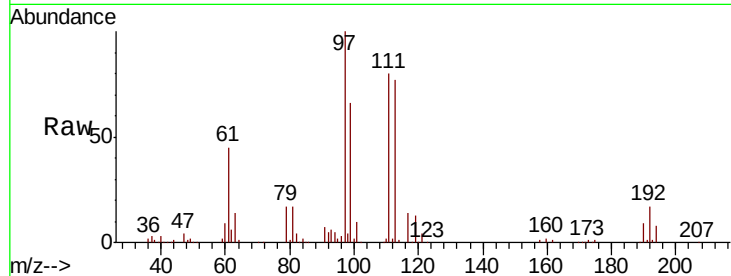
#35  
 Dibromofluoromethane  
 Concen: 51.867 ug/l  
 RT: 7.91 min Scan# 1019  
 Delta R.T. -0.01 min  
 Lab File: VD064482.D  
 Acq: 10 Dec 2019 10:21

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTD05006

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 113     | 100   | 222670 |       |       |
| 111     | 101.4 | 79.4   | 119.2 |       |
| 192     | 23.1  | 18.6   | 28.0  |       |

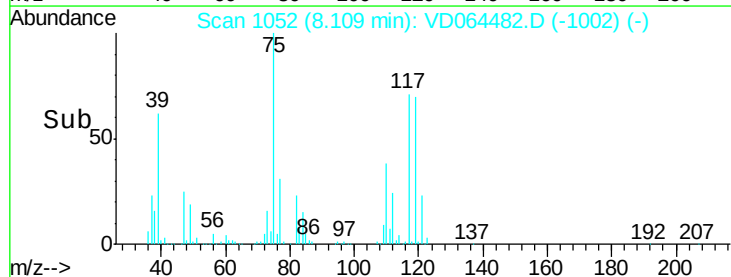
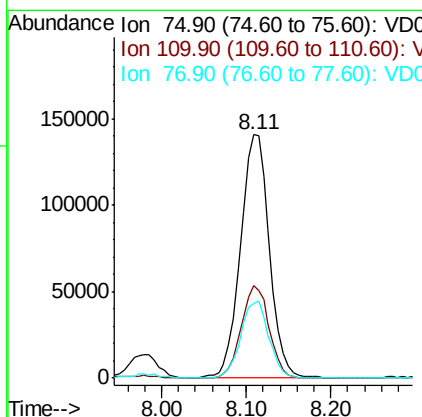
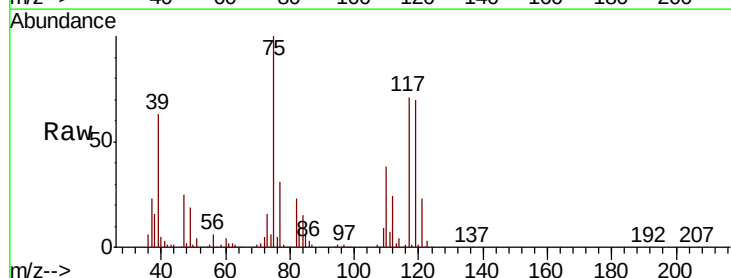
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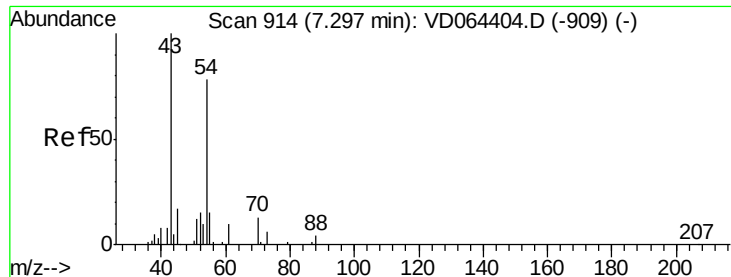
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#36  
 1,1-Dichloropropene  
 Concen: 51.789 ug/l  
 RT: 8.11 min Scan# 1052  
 Delta R.T. -0.01 min  
 Lab File: VD064482.D  
 Acq: 10 Dec 2019 10:21

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 75      | 100   | 333782 |       |       |
| 110     | 36.7  | 18.6   | 55.8  |       |
| 77      | 31.1  | 25.0   | 37.4  |       |





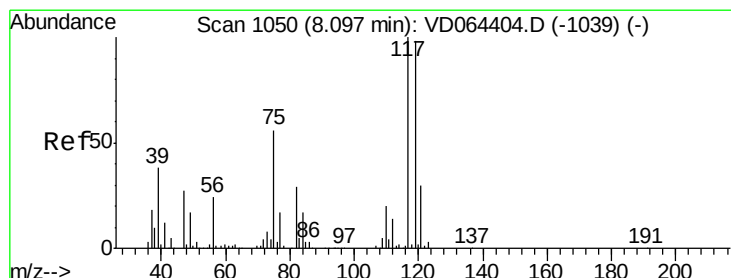
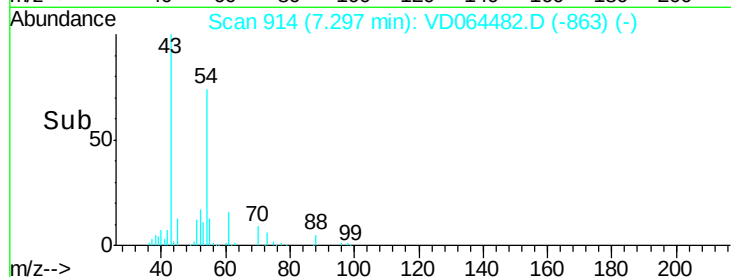
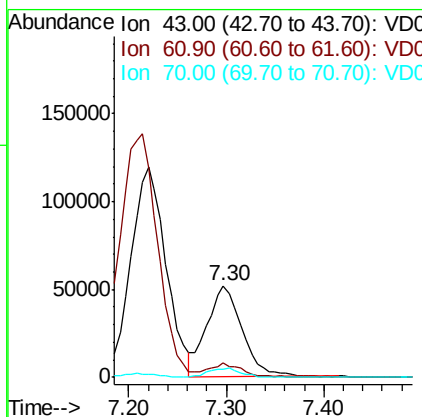
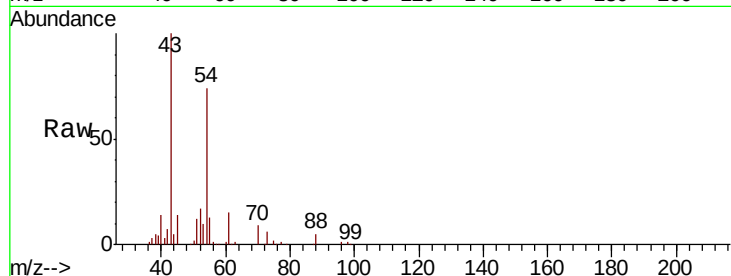
#37  
Ethyl Acetate  
Concen: 47.220 ug/l  
RT: 7.30 min Scan# 914  
Delta R.T. 0.00 min  
Lab File: VD064482.D  
Acq: 10 Dec 2019 10:21

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTD05006

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 12.7  | 10.9  | 16.3  |
| 70      | 9.7   | 8.3   | 12.5  |

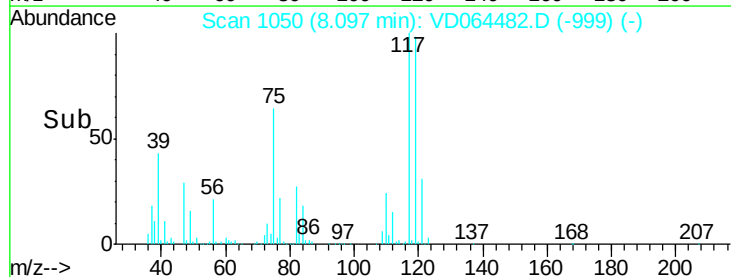
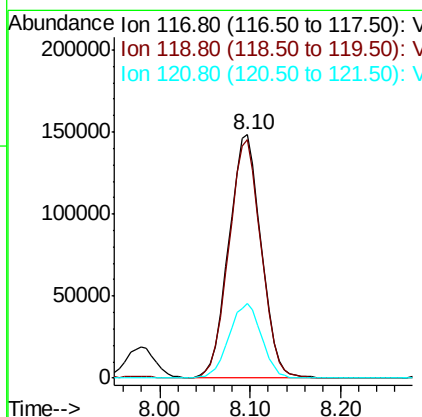
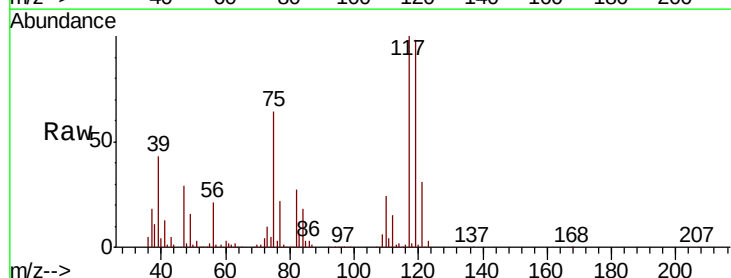
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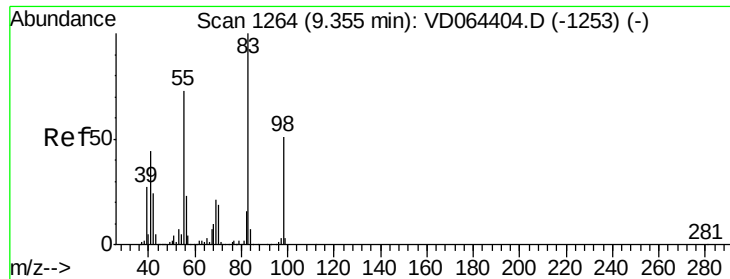


#38  
Carbon Tetrachloride  
Concen: 53.910 ug/l  
RT: 8.10 min Scan# 1050  
Delta R.T. 0.00 min  
Lab File: VD064482.D  
Acq: 10 Dec 2019 10:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 119     | 98.1  | 78.8  | 118.2 |
| 121     | 30.9  | 24.2  | 36.2  |







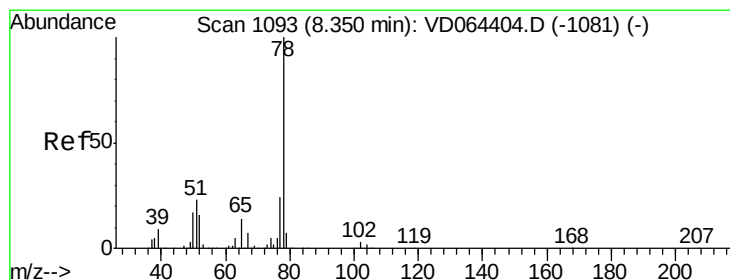
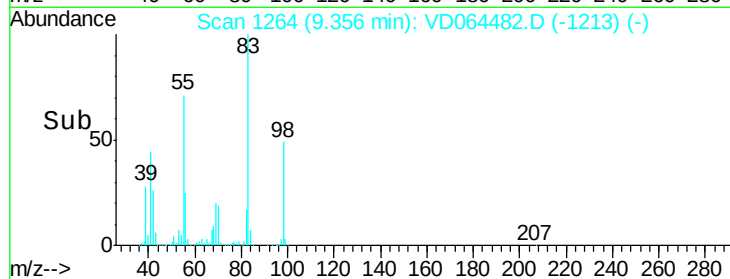
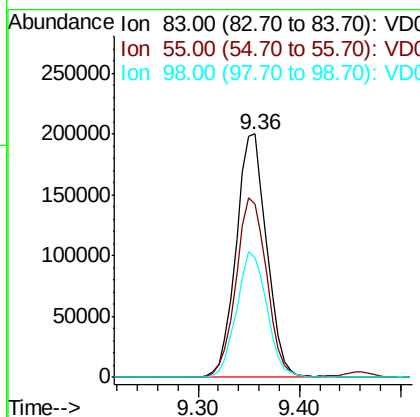
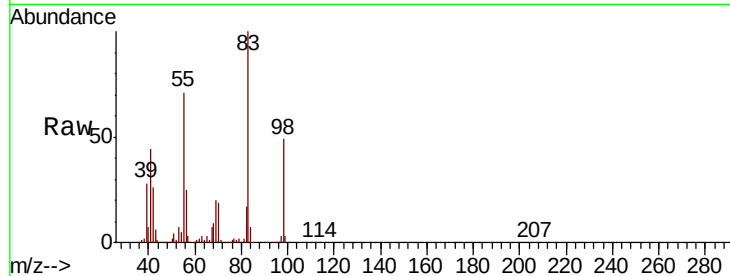
#39  
Methylvlcyclohexane  
Concen: 52.528 ug/l  
RT: 9.36 min Scan# 1264  
Delta R.T. 0.00 min  
Lab File: VD064482.D  
Acq: 10 Dec 2019 10:21

Instrument :  
MSVOA\_D  
ClientSampled :  
VSTD05006

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 55      | 71.4  | 58.6  | 87.8  |
| 98      | 48.9  | 40.9  | 61.3  |

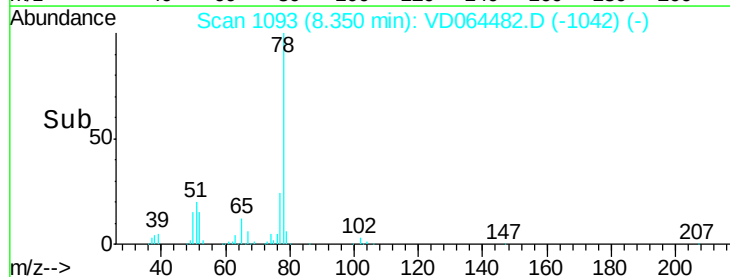
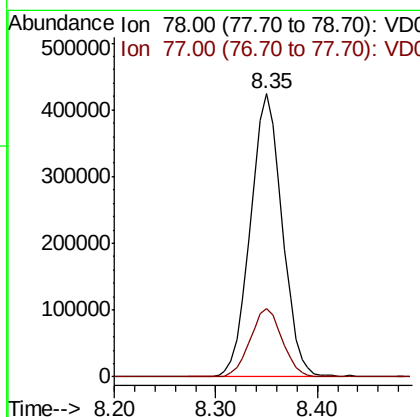
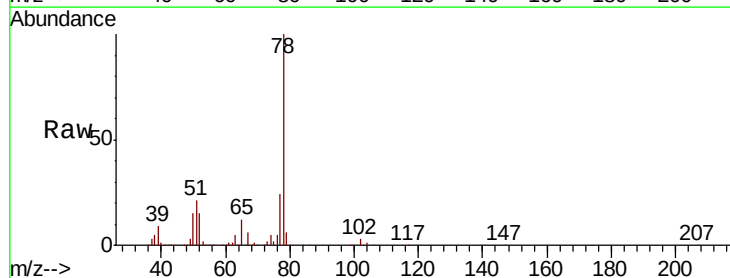
Manual Integrations  
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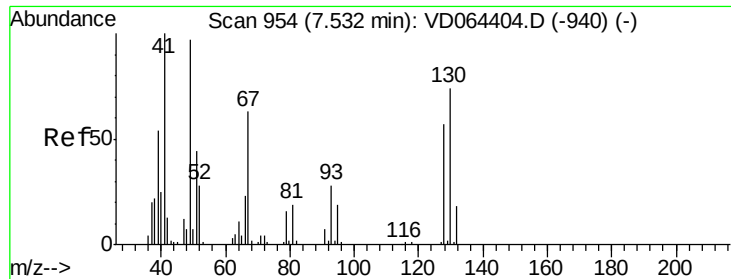
apatel  
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#40  
Benzene  
Concen: 51.508 ug/l  
RT: 8.35 min Scan# 1093  
Delta R.T. 0.00 min  
Lab File: VD064482.D  
Acq: 10 Dec 2019 10:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 78      | 100   |       |       |
| 77      | 24.2  | 19.6  | 29.4  |





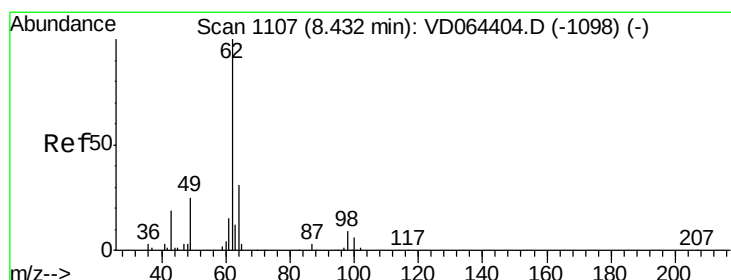
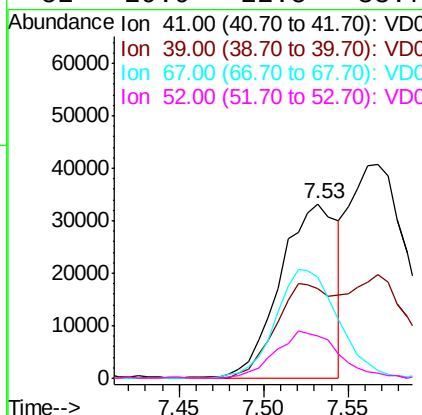
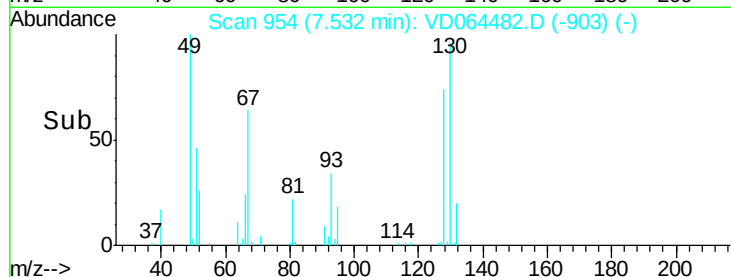
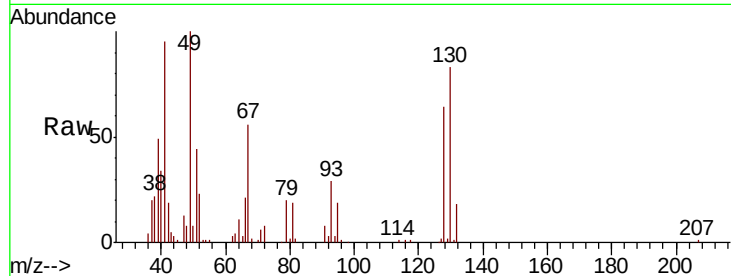
#41  
Methacrylonitrile  
Concen: 49.880 ug/l  
RT: 7.53 min Scan# 954  
Delta R.T. 0.00 min  
Lab File: VD064482.D  
Acq: 10 Dec 2019 10:21

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTD05006

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 41      | 100   |       |       |
| 39      | 49.0  | 44.6  | 67.0  |
| 67      | 68.6  | 50.9  | 76.3  |
| 52      | 29.9  | 22.5  | 33.7  |

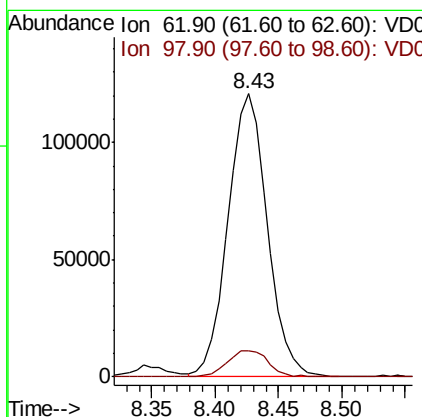
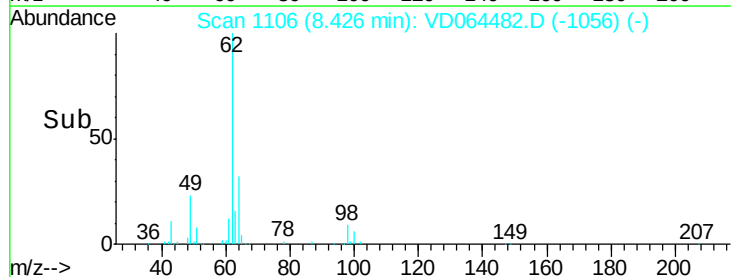
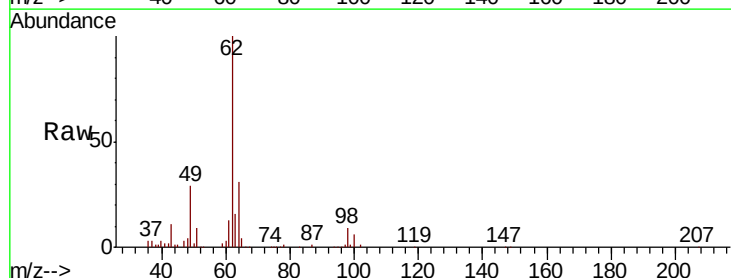
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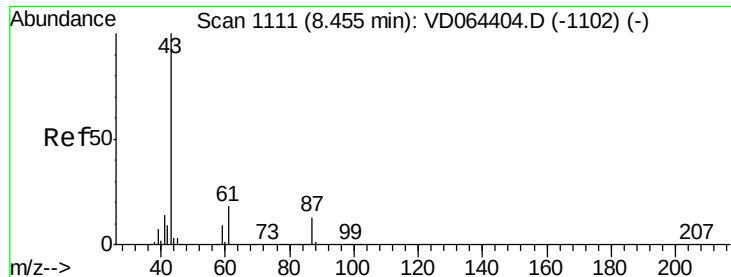
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#42  
1,2-Dichloroethane  
Concen: 49.368 ug/l  
RT: 8.43 min Scan# 1106  
Delta R.T. -0.01 min  
Lab File: VD064482.D  
Acq: 10 Dec 2019 10:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 62      | 100   |       |       |
| 98      | 10.0  | 0.0   | 20.6  |





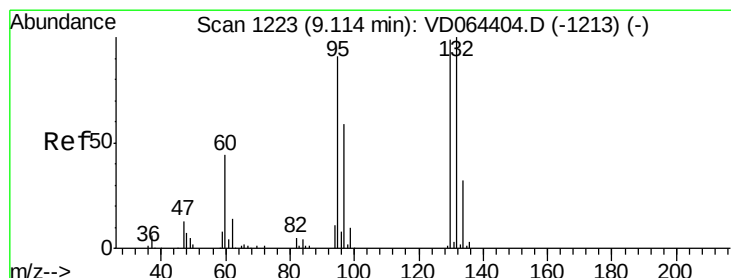
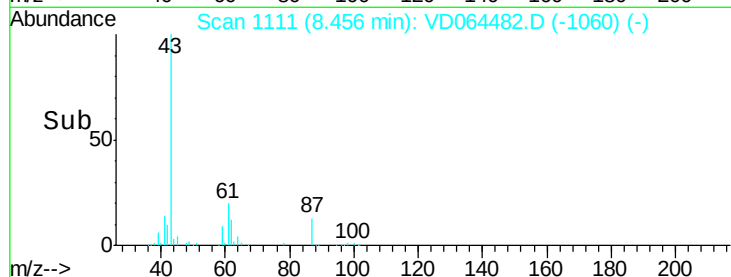
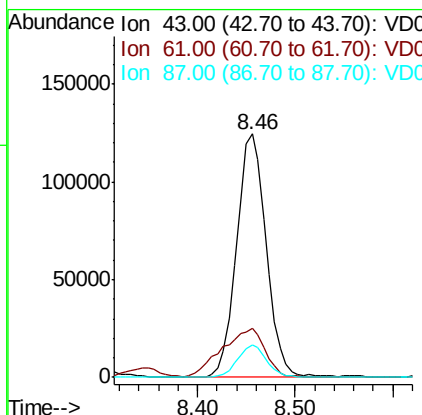
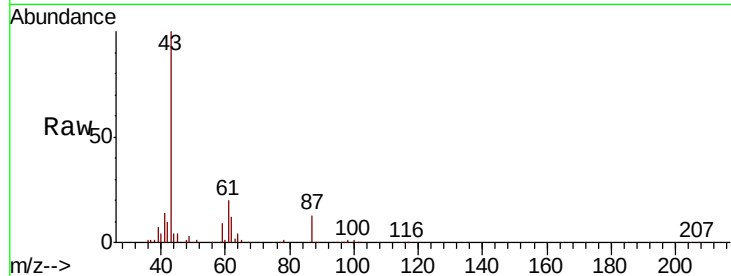
#43  
Isopropyl Acetate  
Concen: 49.166 ug/l  
RT: 8.46 min Scan# 1111  
Delta R.T. 0.00 min  
Lab File: VD064482.D  
Acq: 10 Dec 2019 10:21

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTD05006

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 29.2  | 24.0  | 36.0  |
| 87      | 12.8  | 10.6  | 15.8  |

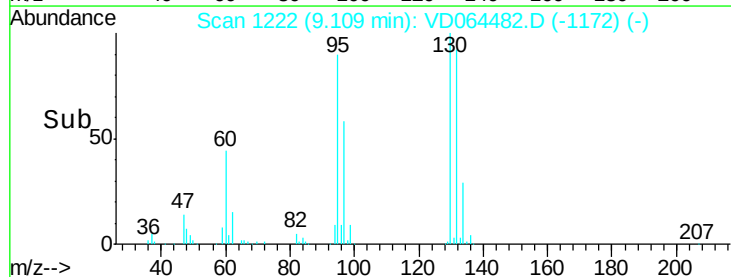
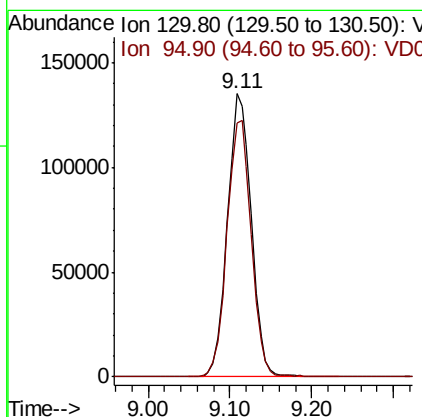
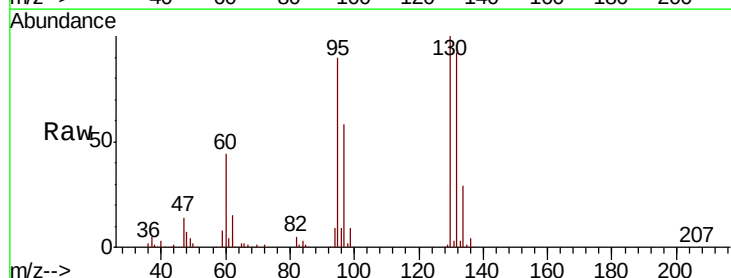
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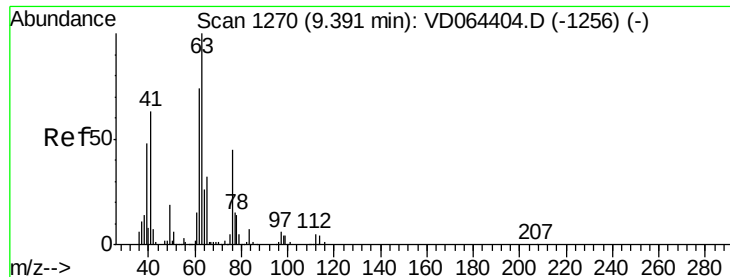
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#44  
Trichloroethene  
Concen: 50.872 ug/l  
RT: 9.11 min Scan# 1222  
Delta R.T. -0.01 min  
Lab File: VD064482.D  
Acq: 10 Dec 2019 10:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 130     | 100   |       |       |
| 95      | 89.8  | 0.0   | 184.6 |





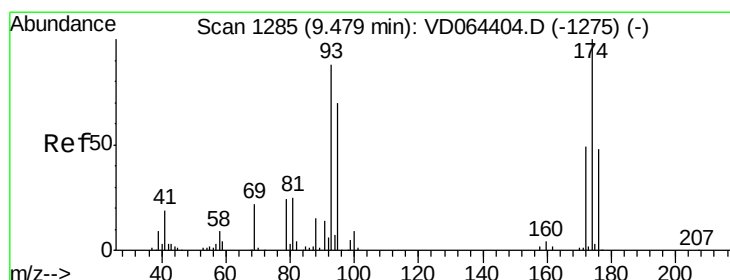
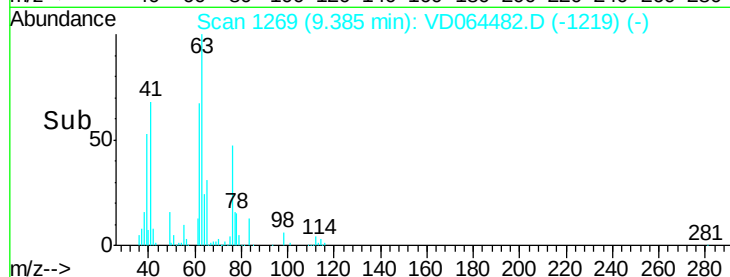
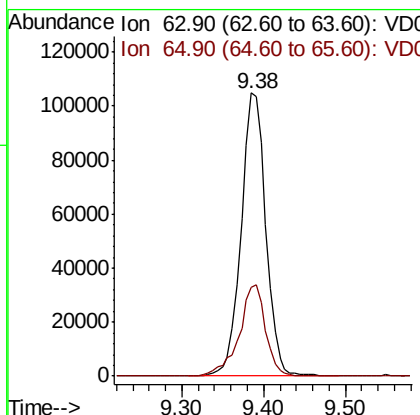
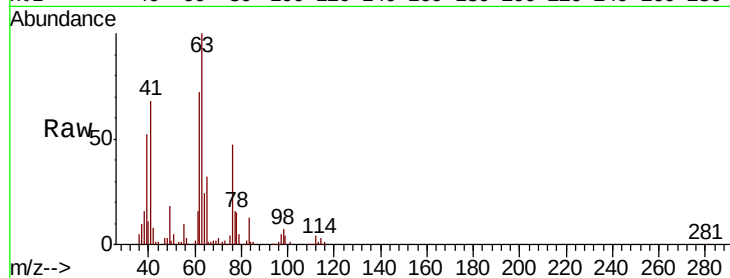
#45  
 1,2-Dichloropropane  
 Concen: 51.466 ug/l  
 RT: 9.38 min Scan# 1269  
 Delta R.T. -0.01 min  
 Lab File: VD064482.D  
 Acq: 10 Dec 2019 10:21

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTD05006

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 65      | 31.5  | 25.4  | 38.0  |

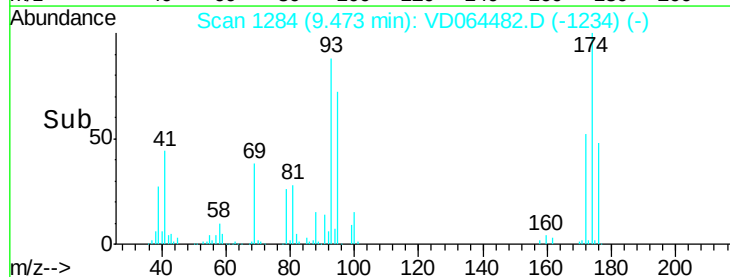
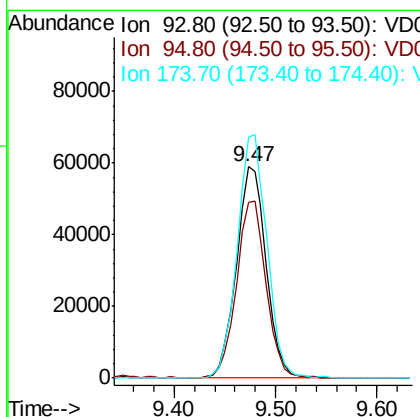
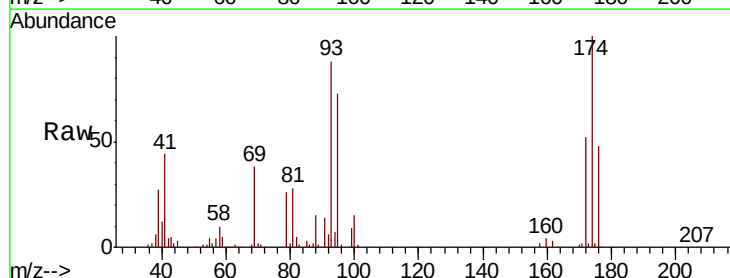
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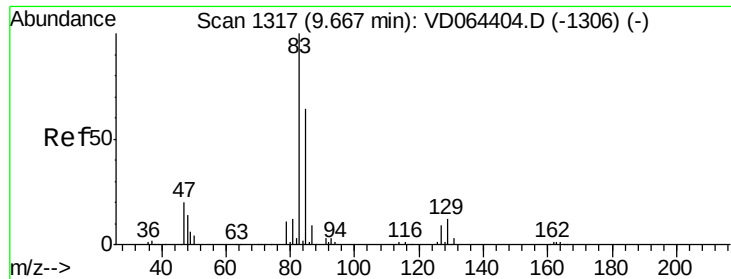
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#46  
 Dibromomethane  
 Concen: 49.657 ug/l  
 RT: 9.47 min Scan# 1284  
 Delta R.T. -0.01 min  
 Lab File: VD064482.D  
 Acq: 10 Dec 2019 10:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 93      | 100   |       |       |
| 95      | 83.3  | 66.7  | 100.1 |
| 174     | 114.6 | 92.3  | 138.5 |





#47

Bromodichloromethane

Concen: 51.461 ug/l

RT: 9.66 min Scan# 1316

Delta R.T. -0.01 min

Lab File: VD064482.D

Acq: 10 Dec 2019 10:21

Instrument :

MSVOA\_D

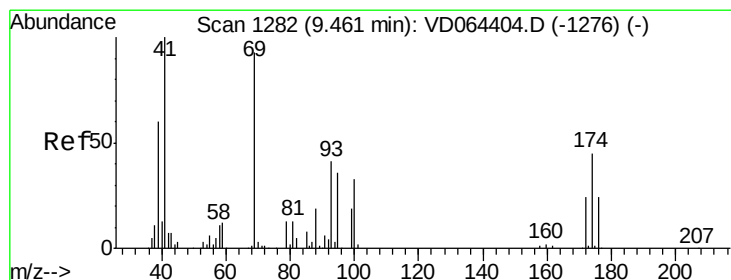
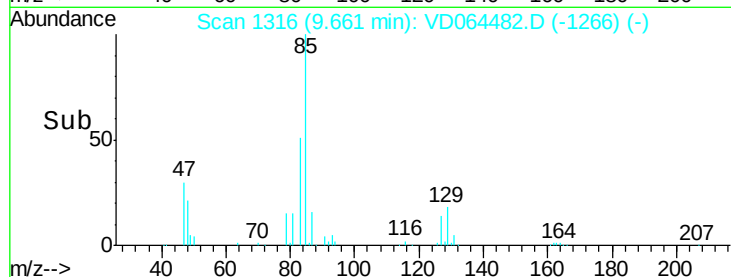
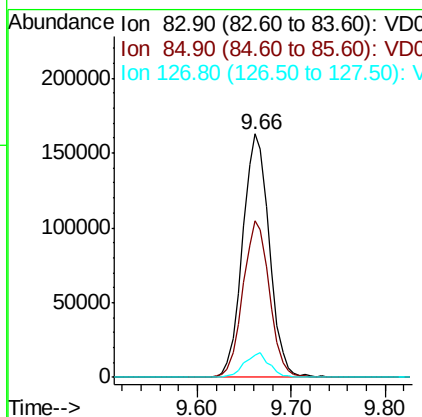
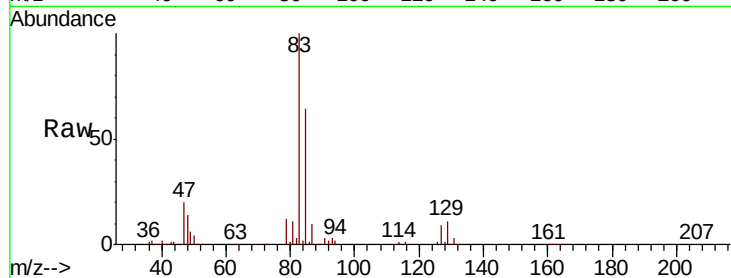
ClientSampleId :

VSTD05006

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 83    | Resp: | 319488 |
| Ion      | Ratio | Lower | Upper  |
| 83       | 100   |       |        |
| 85       | 64.2  | 51.1  | 76.7   |
| 127      | 8.9   | 7.4   | 11.0   |

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#48

Methyl methacrylate

Concen: 48.352 ug/l

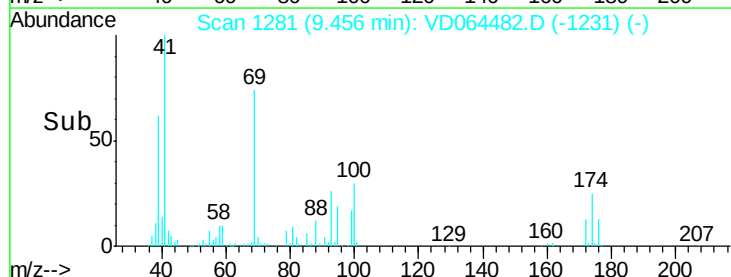
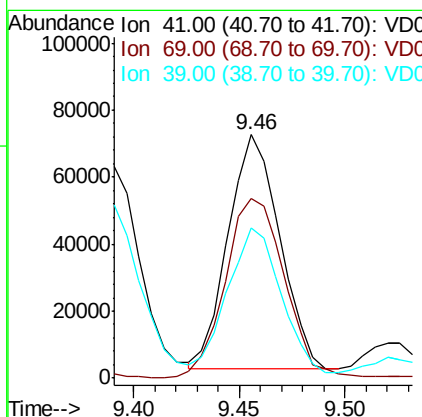
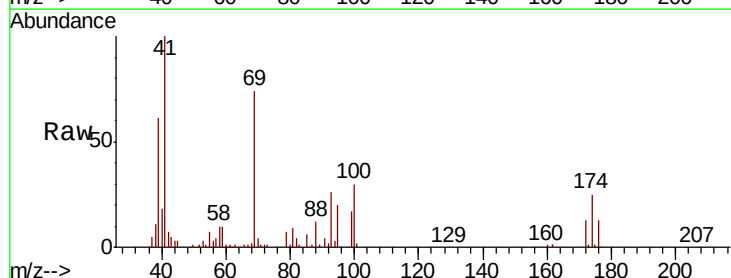
RT: 9.46 min Scan# 1281

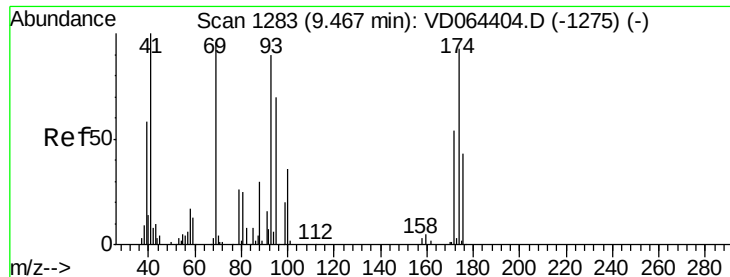
Delta R.T. -0.01 min

Lab File: VD064482.D

Acq: 10 Dec 2019 10:21

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 41    | Resp: | 118971 |
| Ion      | Ratio | Lower | Upper  |
| 41       | 100   |       |        |
| 69       | 88.7  | 72.0  | 108.0  |
| 39       | 62.4  | 55.2  | 82.8   |





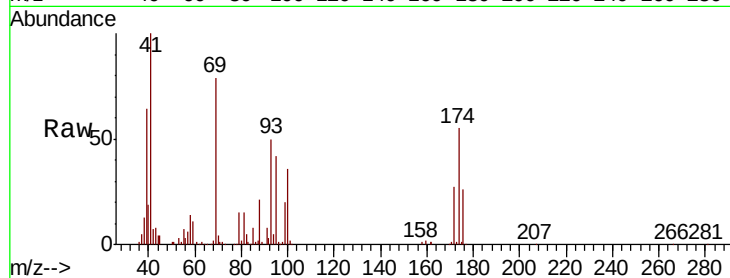
#49  
1,4-Dioxane  
Concen: 894.469 ug/l  
RT: 9.46 min Scan# 1282  
Delta R.T. -0.01 min  
Lab File: VD064482.D  
Acq: 10 Dec 2019 10:21

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTD05006

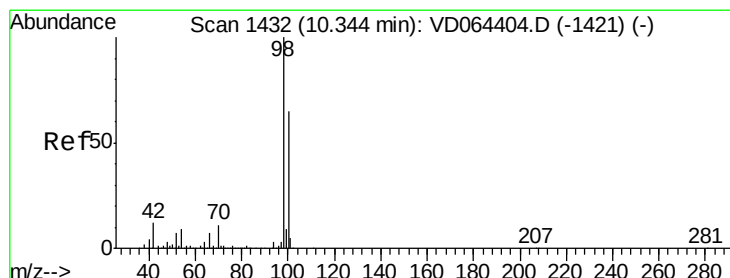
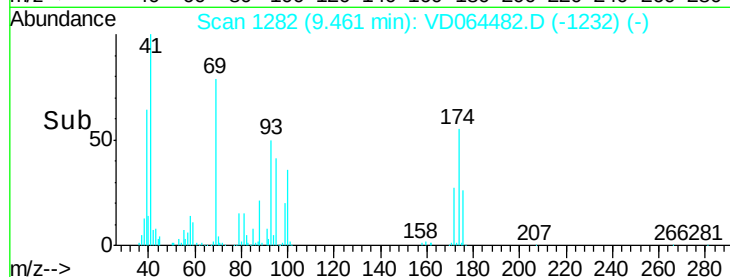
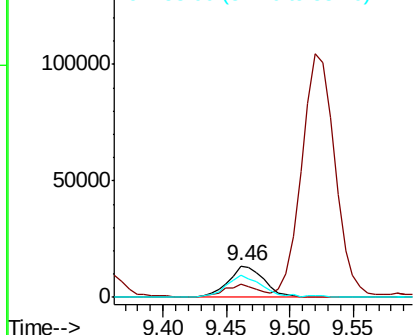
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 43      | 38.7  | 26.7  | 40.1  |
| 58      | 69.4  | 52.3  | 78.5  |

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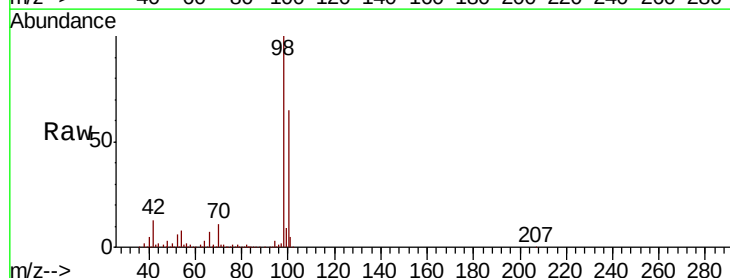


Abundance Ion 88.00 (87.70 to 88.70): VDC  
Ion 43.00 (42.70 to 43.70): VDC  
Ion 58.00 (57.70 to 58.70): VDC

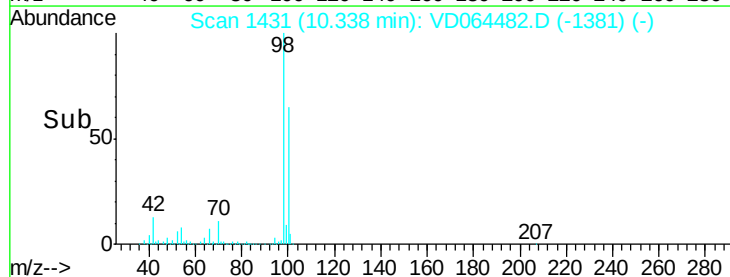
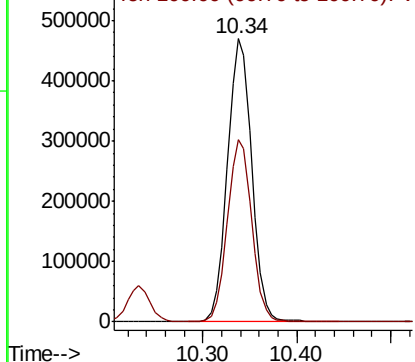


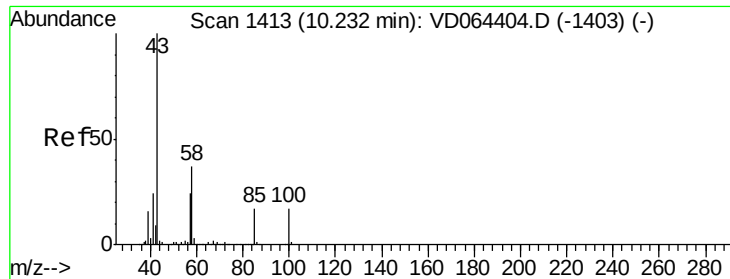
#50  
Toluene-d8  
Concen: 52.105 ug/l  
RT: 10.34 min Scan# 1431  
Delta R.T. -0.01 min  
Lab File: VD064482.D  
Acq: 10 Dec 2019 10:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 98      | 100   |       |       |
| 100     | 64.4  | 52.6  | 79.0  |



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





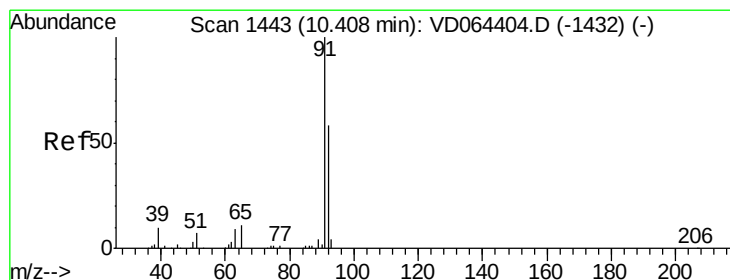
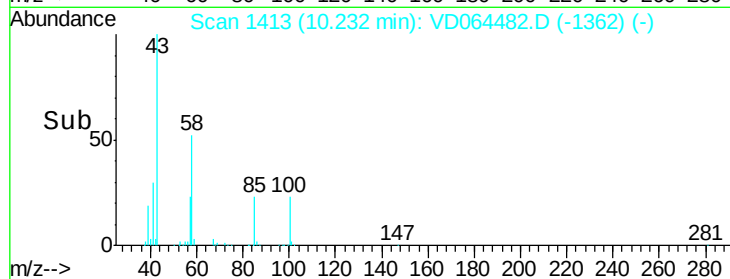
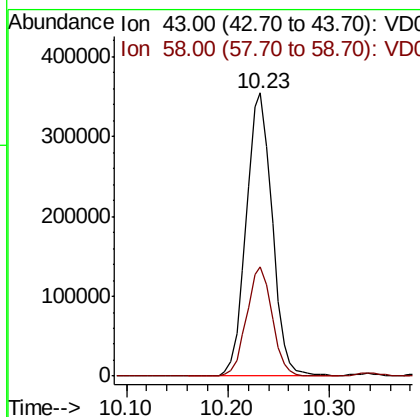
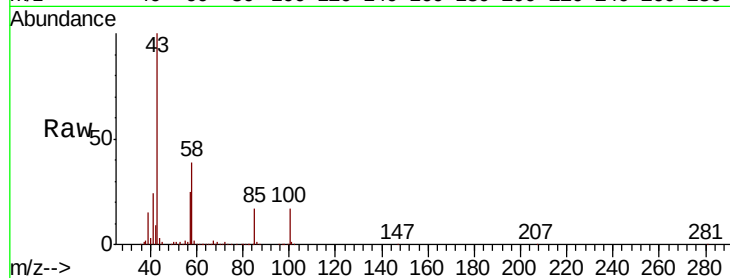
#51  
4-Methyl-2-Pentanone  
Concen: 238.300 ug/l  
RT: 10.23 min Scan# 1413  
Delta R.T. 0.00 min  
Lab File: VD064482.D  
Acq: 10 Dec 2019 10:21

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTD05006

| Tot Ion   | 43   | Resp  | 633998 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 43        | 100  |       |        |
| 58        | 38.1 | 30.6  | 46.0   |

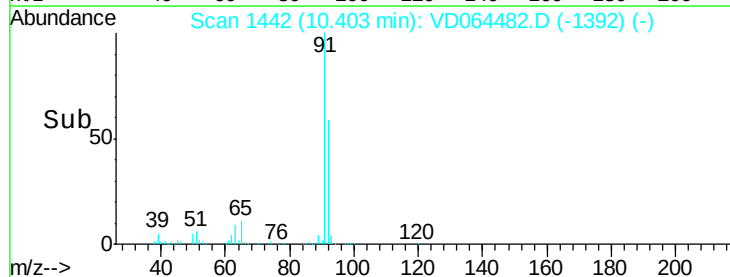
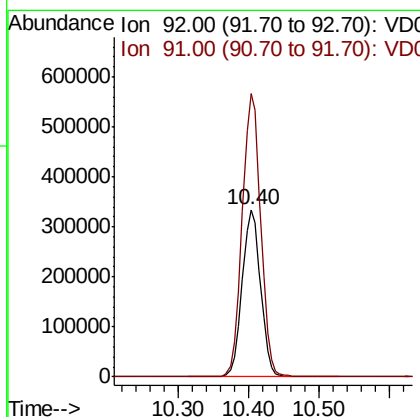
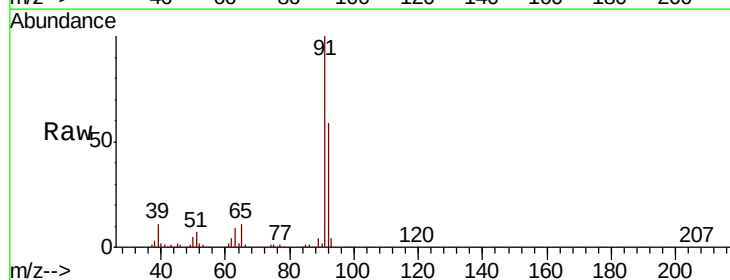
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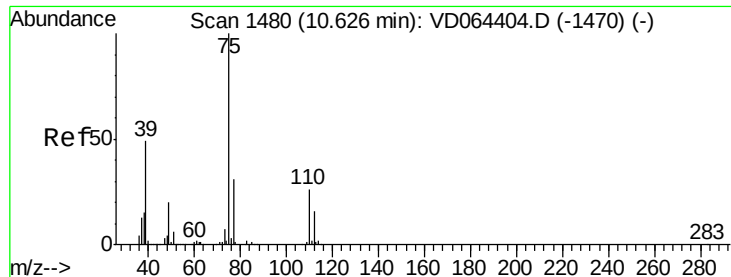
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#52  
Toluene  
Concen: 51.886 ug/l  
RT: 10.40 min Scan# 1442  
Delta R.T. -0.01 min  
Lab File: VD064482.D  
Acq: 10 Dec 2019 10:21

| Tgt Ion   | 92    | Resp  | 605291 |
|-----------|-------|-------|--------|
| Ion Ratio | 100   | Lower | Upper  |
| 92        | 100   |       |        |
| 91        | 169.9 | 137.8 | 206.6  |





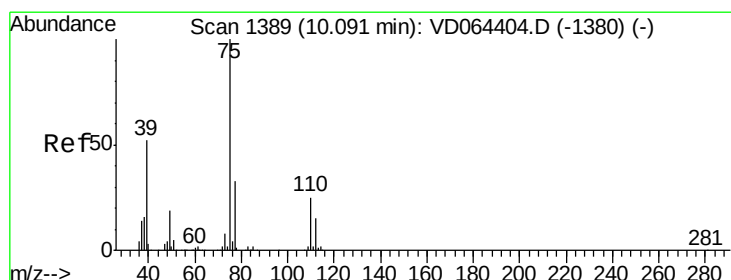
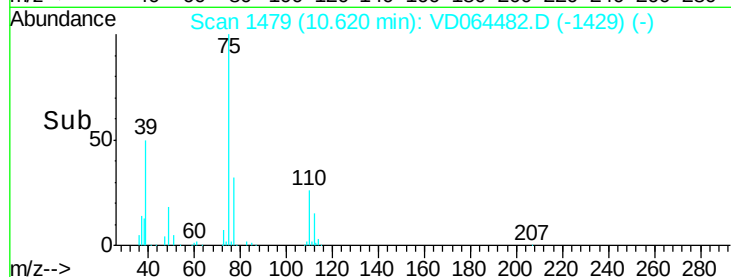
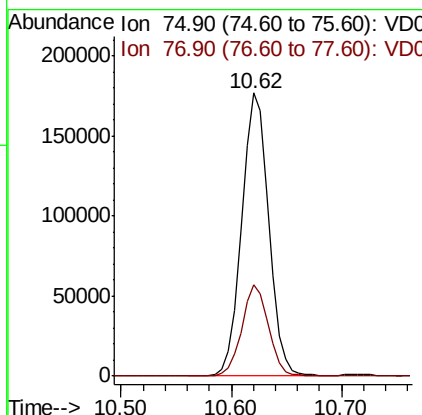
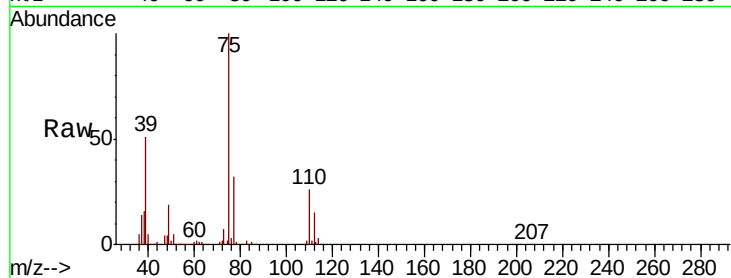
#53  
 t-1,3-Dichloropropene  
 Concen: 51.628 ug/l  
 RT: 10.62 min Scan# 1479  
 Delta R.T. -0.01 min  
 Lab File: VD064482.D  
 Acq: 10 Dec 2019 10:21

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTD05006

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 32.1  | 25.0  | 37.4  |

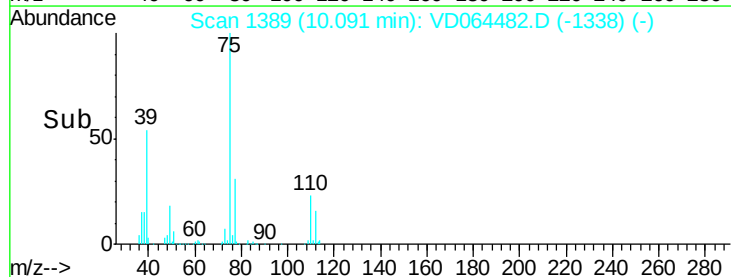
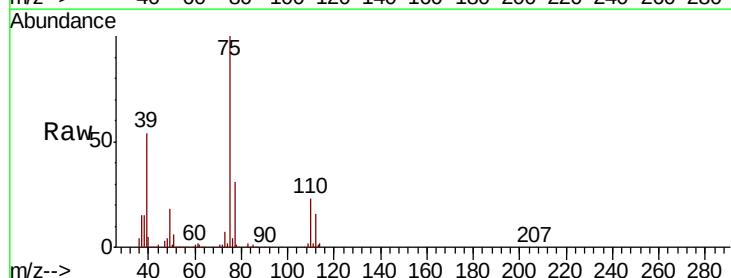
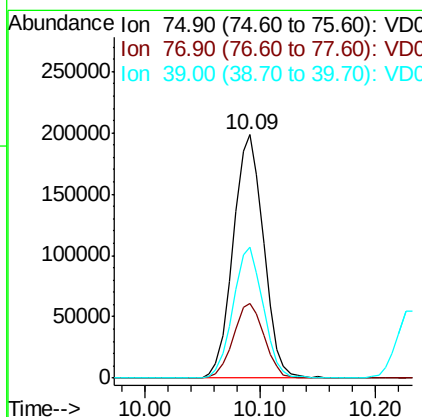
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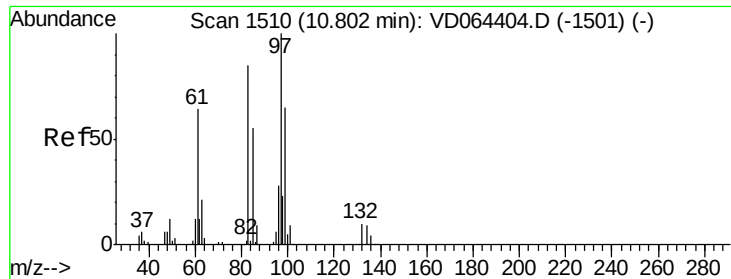


#54  
 cis-1,3-Dichloropropene  
 Concen: 51.518 ug/l  
 RT: 10.09 min Scan# 1389  
 Delta R.T. 0.00 min  
 Lab File: VD064482.D  
 Acq: 10 Dec 2019 10:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 30.5  | 26.1  | 39.1  |
| 39      | 53.9  | 41.5  | 62.3  |







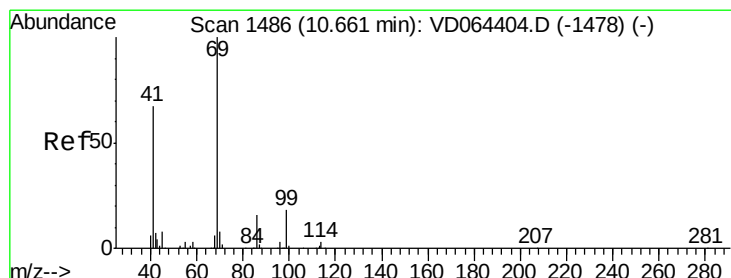
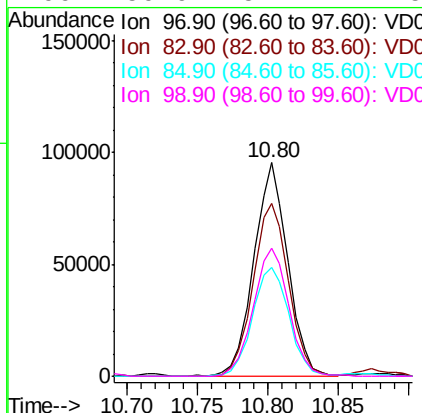
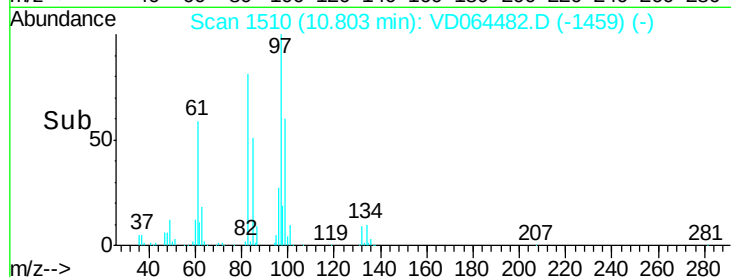
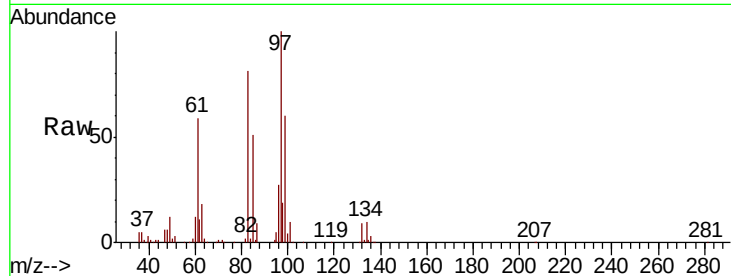
#55  
 1,1,2-Trichloroethane  
 Concen: 48.643 ug/l  
 RT: 10.80 min Scan# 1510  
 Delta R.T. 0.00 min  
 Lab File: VD064482.D  
 Acq: 10 Dec 2019 10:21

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTD05006

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 97    | Resp: | 160933 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 83       | 80.6  | 67.8  | 101.8  |
| 85       | 50.9  | 43.7  | 65.5   |
| 99       | 59.9  | 51.7  | 77.5   |

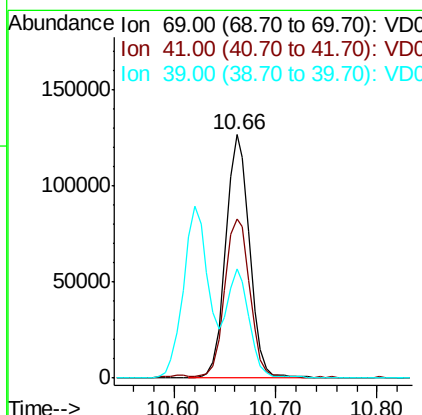
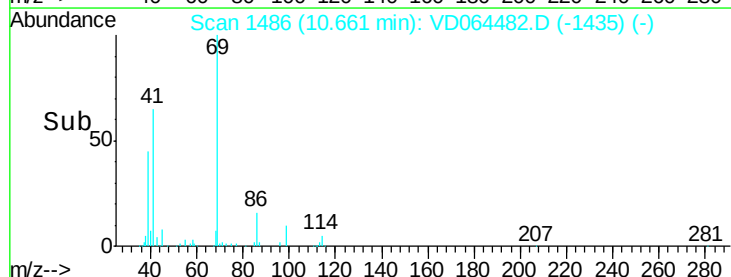
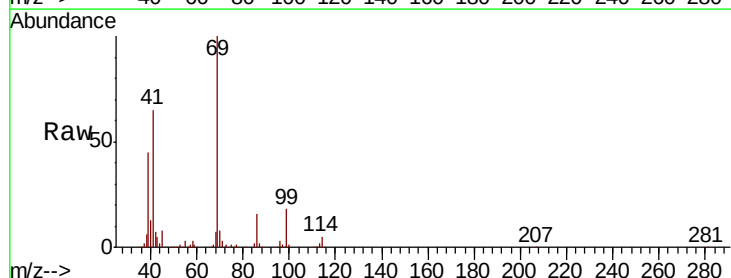
Manual Integrations  
 APPROVED

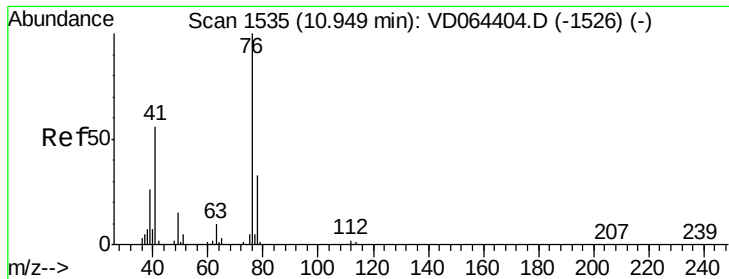
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#56  
 Ethyl methacrylate  
 Concen: 48.871 ug/l  
 RT: 10.66 min Scan# 1486  
 Delta R.T. 0.00 min  
 Lab File: VD064482.D  
 Acq: 10 Dec 2019 10:21

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 69    | Resp: | 206226 |
| Ion      | Ratio | Lower | Upper  |
| 69       | 100   |       |        |
| 41       | 68.5  | 55.0  | 82.4   |
| 39       | 40.8  | 33.0  | 49.6   |





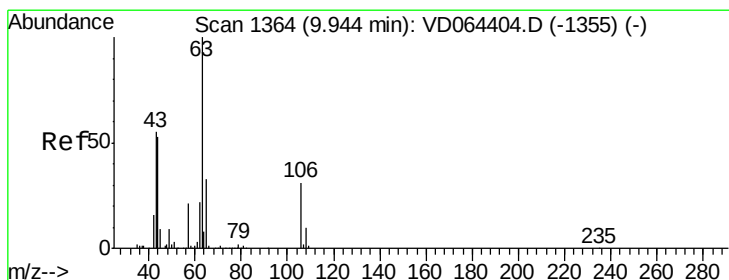
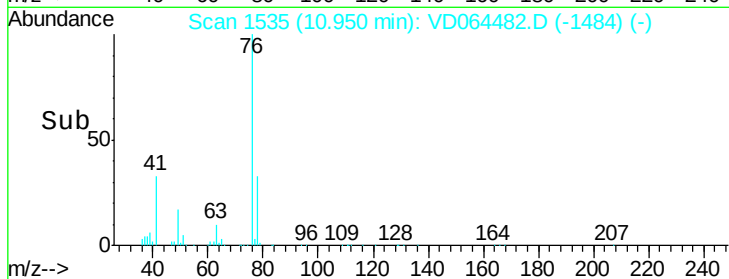
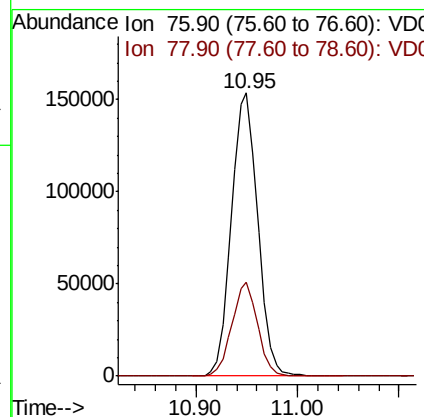
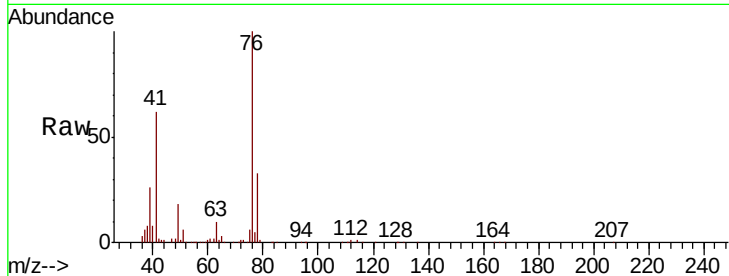
#57  
 1,3-Dichloropropane  
 Concen: 49.152 ug/l  
 RT: 10.95 min Scan# 1535  
 Delta R.T. 0.00 min  
 Lab File: VD064482.D  
 Acq: 10 Dec 2019 10:21

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTD05006

Tot Ion: 76 Resp: 276821  
 Ion Ratio Lower Upper  
 76 100  
 78 32.4 26.0 39.0

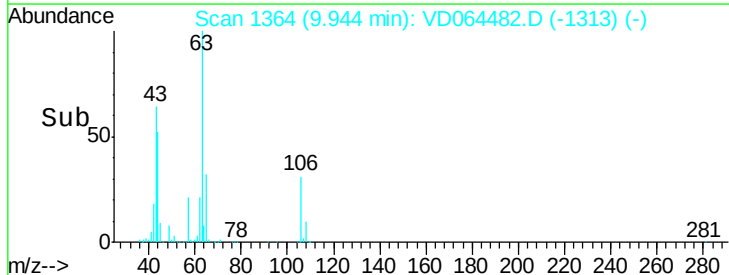
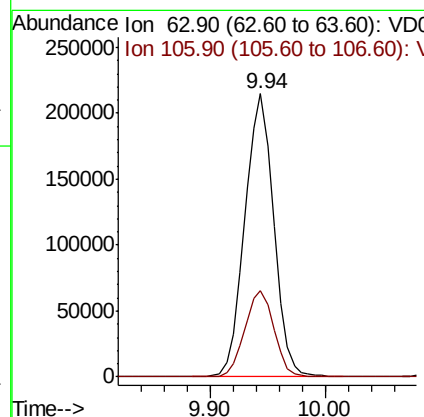
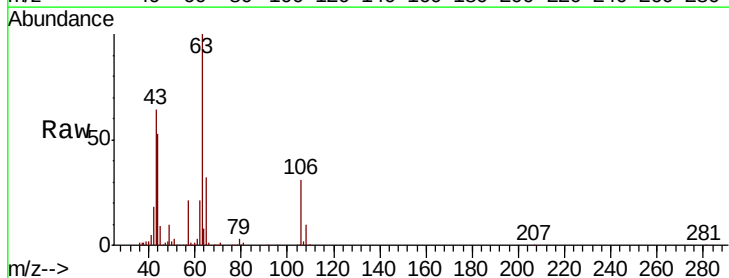
Manual Integrations  
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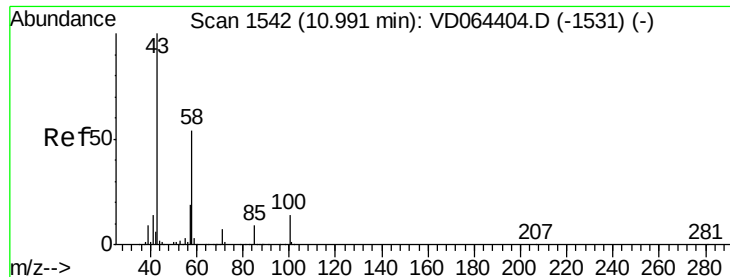
apatel  
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#58  
 2-Chloroethyl Vinyl ether  
 Concen: 222.567 ug/l  
 RT: 9.94 min Scan# 1364  
 Delta R.T. 0.00 min  
 Lab File: VD064482.D  
 Acq: 10 Dec 2019 10:21

Tgt Ion: 63 Resp: 374394  
 Ion Ratio Lower Upper  
 63 100  
 106 30.8 24.2 36.4





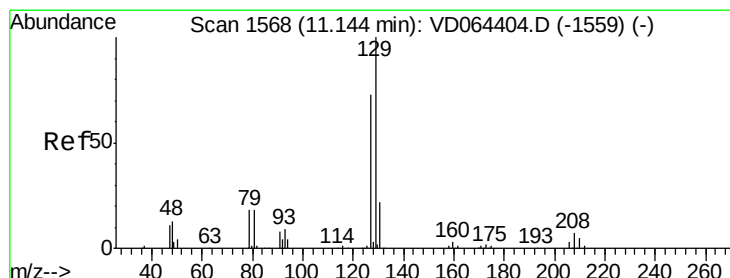
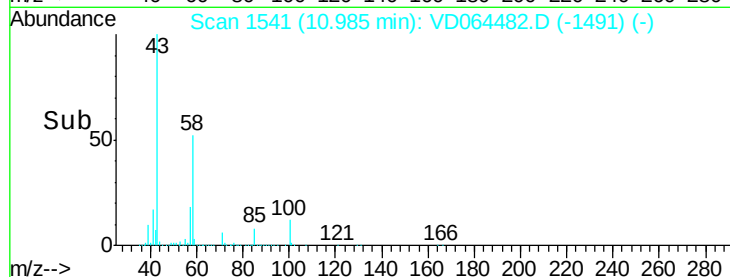
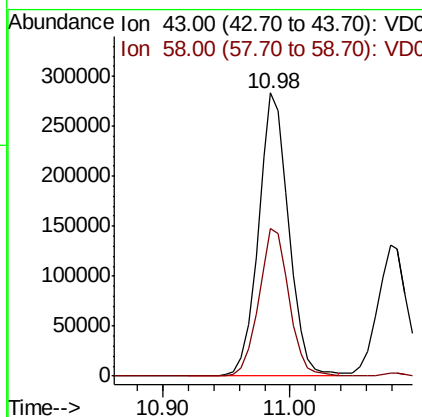
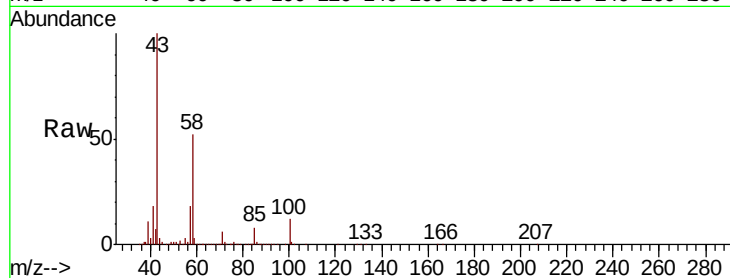
#59  
2-Hexanone  
Concen: 253.816 ug/l  
RT: 10.98 min Scan# 1541  
Delta R.T. -0.01 min  
Lab File: VD064482.D  
Acq: 10 Dec 2019 10:21

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTD05006

Tot Ion: 43 Resp: 468570  
Ion Ratio Lower Upper  
43 100  
58 52.2 26.3 78.8

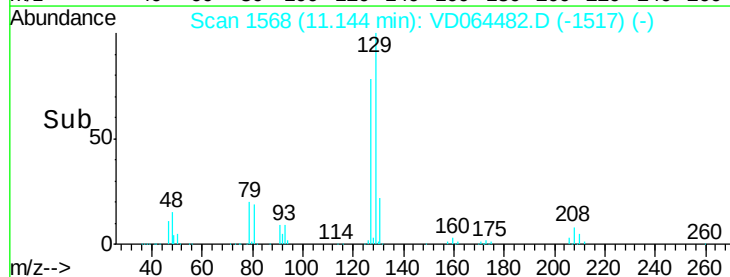
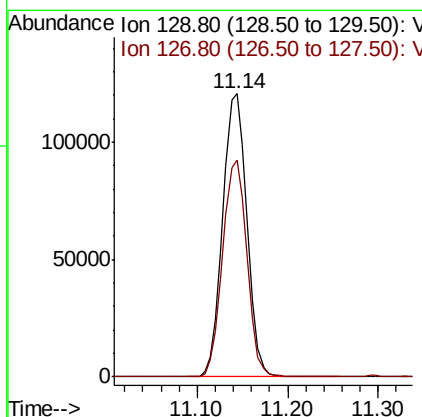
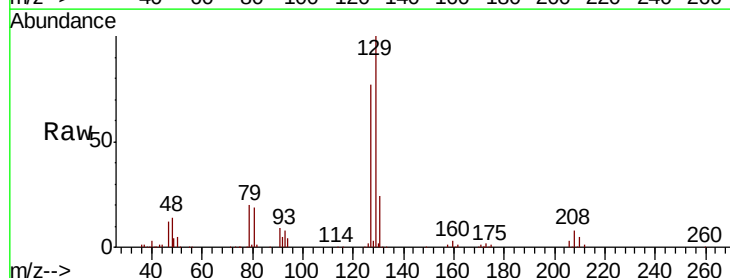
Manual Integrations  
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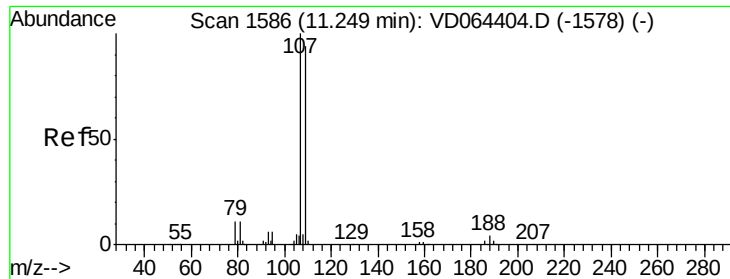
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#60  
Dibromochloromethane  
Concen: 49.967 ug/l  
RT: 11.14 min Scan# 1568  
Delta R.T. 0.00 min  
Lab File: VD064482.D  
Acq: 10 Dec 2019 10:21

Tgt Ion: 129 Resp: 224144  
Ion Ratio Lower Upper  
129 100  
127 76.9 38.1 114.3





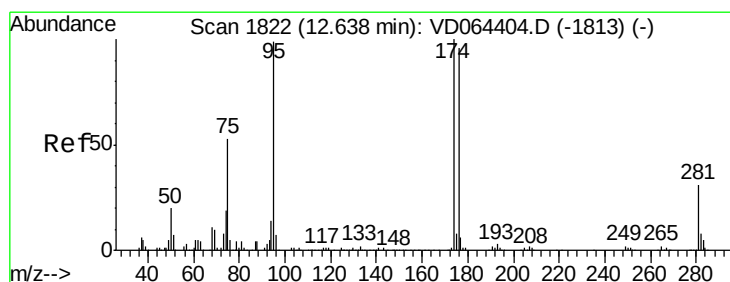
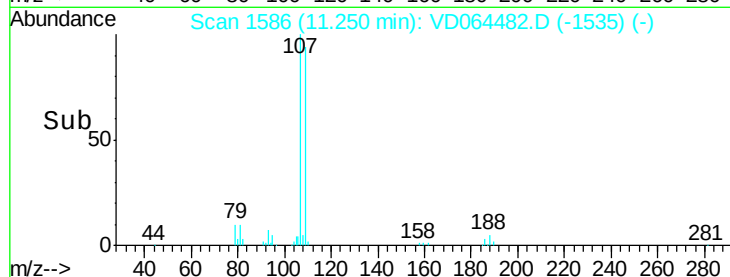
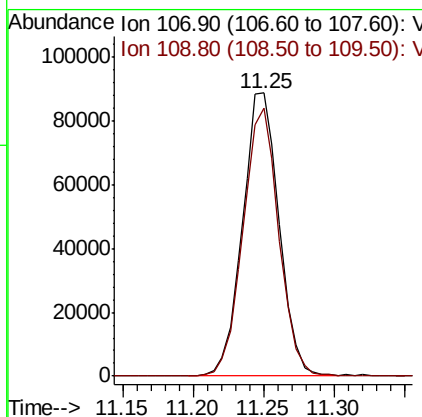
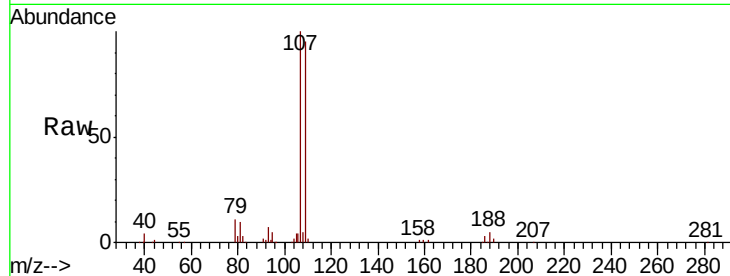
#61  
 1,2-Dibromoethane  
 Concen: 48.655 ug/l  
 RT: 11.25 min Scan# 1586  
 Delta R.T. 0.00 min  
 Lab File: VD064482.D  
 Acq: 10 Dec 2019 10:21

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTD05006

Tot Ion: 107 Resp: 160725  
 Ion Ratio Lower Upper  
 107 100  
 109 92.9 76.2 114.2

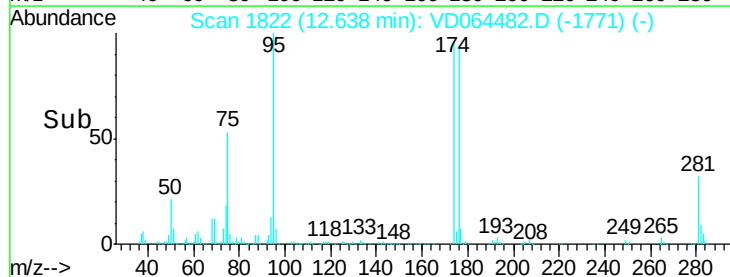
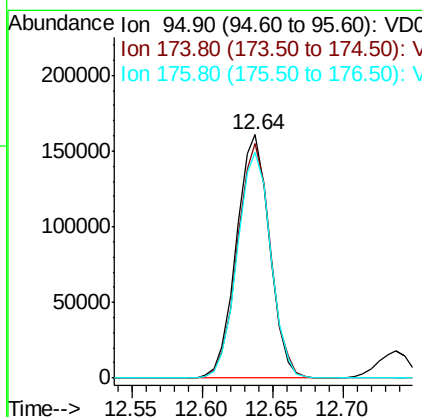
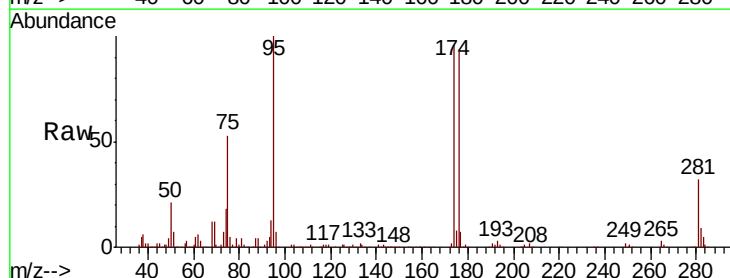
Manual Integrations  
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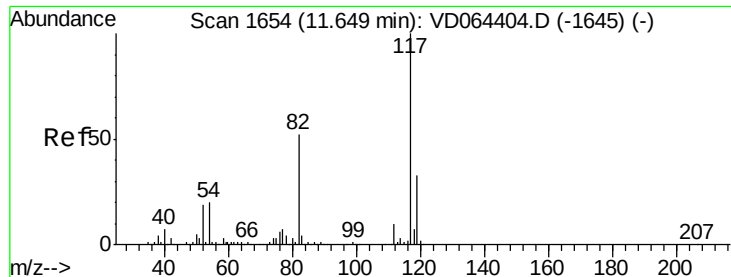
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#62  
 4-Bromofluorobenzene  
 Concen: 50.682 ug/l  
 RT: 12.64 min Scan# 1822  
 Delta R.T. 0.00 min  
 Lab File: VD064482.D  
 Acq: 10 Dec 2019 10:21

Tgt Ion: 95 Resp: 263401  
 Ion Ratio Lower Upper  
 95 100  
 174 96.3 0.0 197.2  
 176 93.8 0.0 189.6





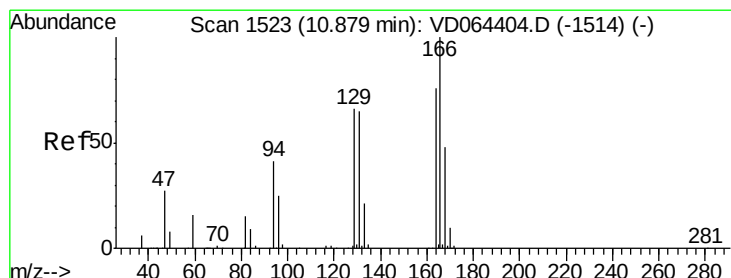
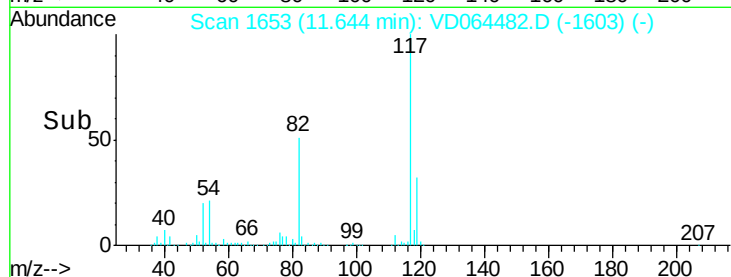
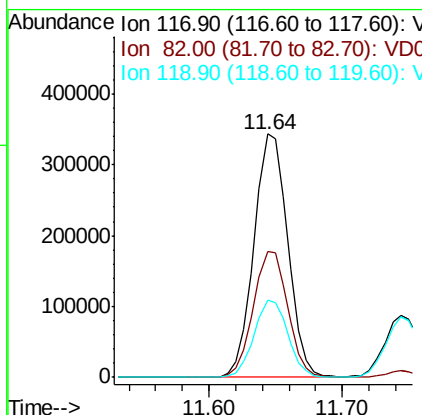
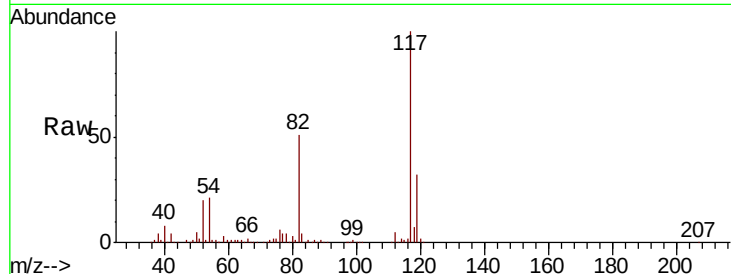
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.64 min Scan# 1653  
Delta R.T. -0.01 min  
Lab File: VD064482.D  
Acq: 10 Dec 2019 10:21

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTD05006

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 117     | 100   | 600423 |       |       |
| 82      | 51.5  |        | 41.4  | 62.2  |
| 119     | 31.5  |        | 26.2  | 39.2  |

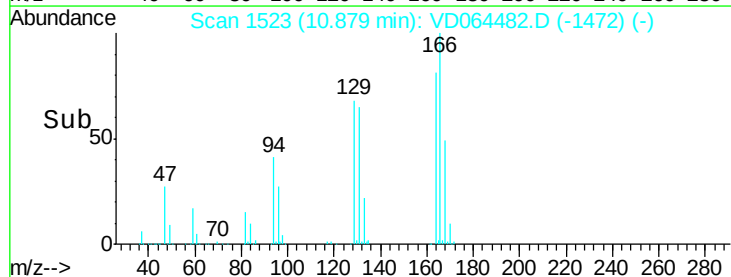
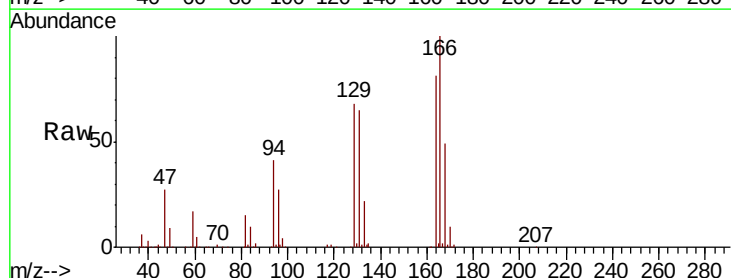
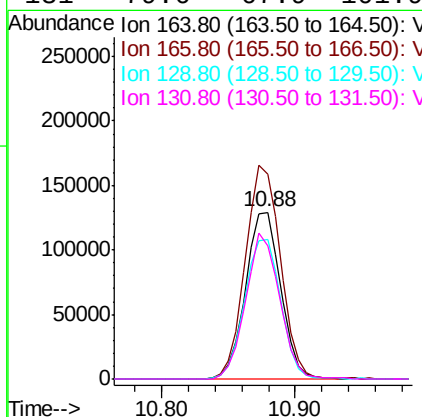
Manual Integrations  
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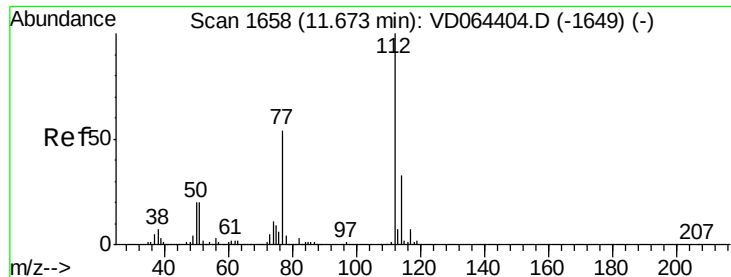
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#64  
Tetrachloroethene  
Concen: 51.191 ug/l  
RT: 10.88 min Scan# 1523  
Delta R.T. 0.00 min  
Lab File: VD064482.D  
Acq: 10 Dec 2019 10:21

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 164     | 100   | 234387 |       |       |
| 166     | 123.2 |        | 104.8 | 157.2 |
| 129     | 83.5  |        | 68.7  | 103.1 |
| 131     | 79.6  |        | 67.9  | 101.9 |





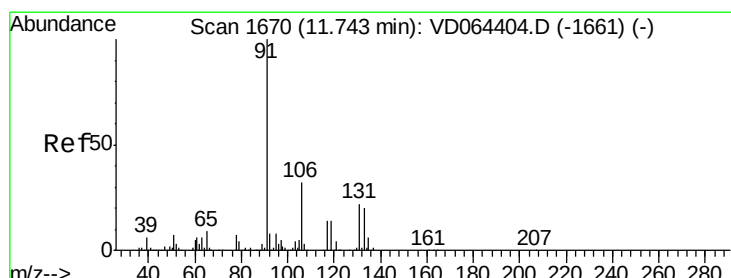
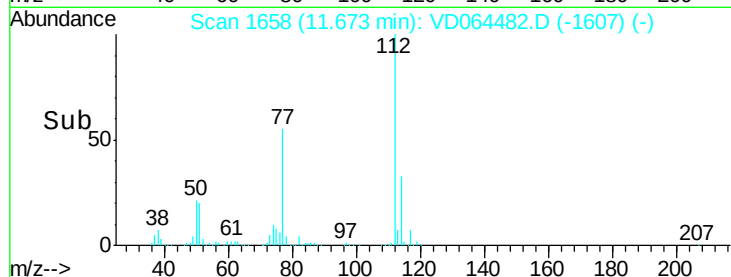
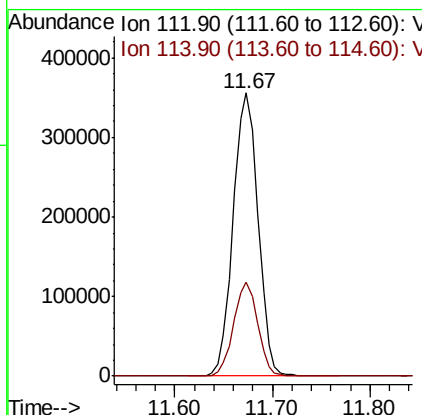
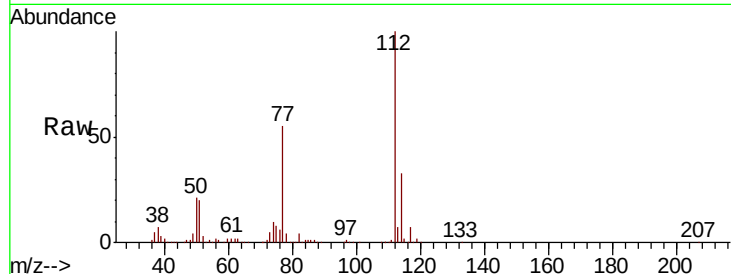
#65  
Chlorobenzene  
Concen: 50.455 ug/l  
RT: 11.67 min Scan# 1658  
Delta R.T. 0.00 min  
Lab File: VD064482.D  
Acq: 10 Dec 2019 10:21

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTD05006

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 114     | 33.3  | 26.5  | 39.7  |

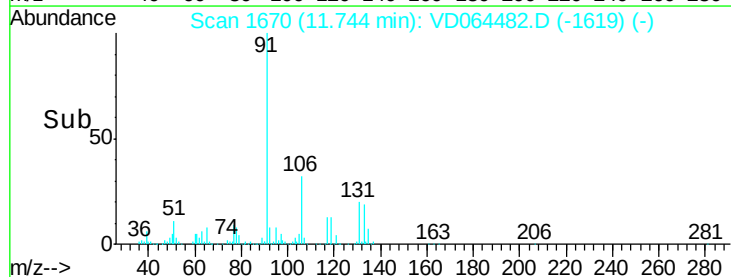
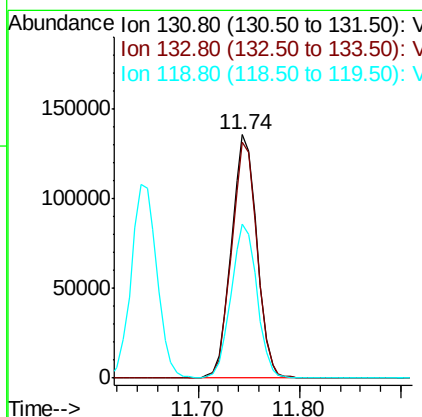
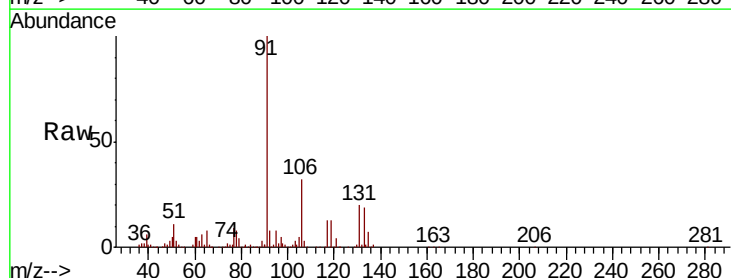
Manual Integrations  
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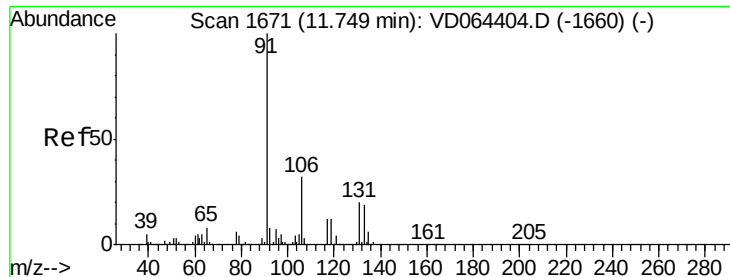
apatel  
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#66  
1,1,1,2-Tetrachloroethane  
Concen: 51.121 ug/l  
RT: 11.74 min Scan# 1670  
Delta R.T. 0.00 min  
Lab File: VD064482.D  
Acq: 10 Dec 2019 10:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 131     | 100   |       |       |
| 133     | 97.1  | 48.3  | 144.9 |
| 119     | 63.9  | 31.9  | 95.9  |





#67

Ethyl Benzene

Concen: 52.290 ug/l

RT: 11.74 min Scan# 1670

Delta R.T. -0.01 min

Lab File: VD064482.D

Acq: 10 Dec 2019 10:21

Instrument :

MSVOA\_D

ClientSampleId :

VSTD05006

Tot Ion: 91 Resp: 1165067

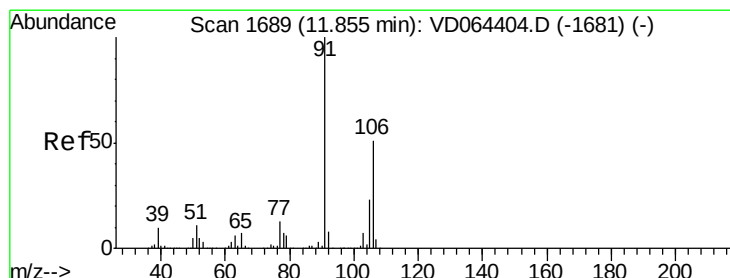
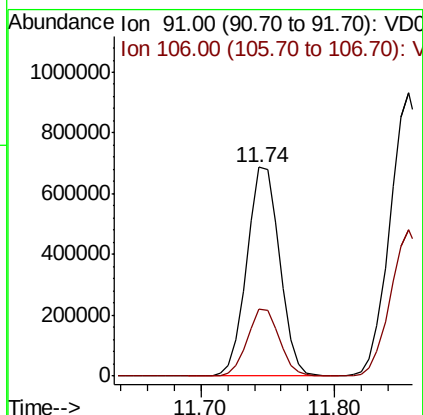
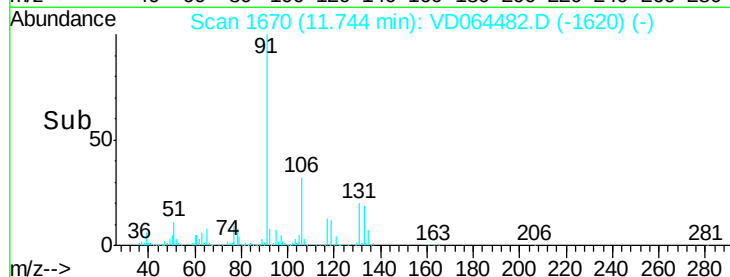
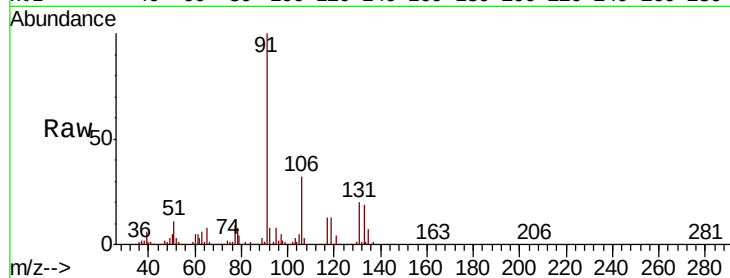
Ion Ratio Lower Upper

91 100

106 31.9 25.8 38.8

Manual Integrations  
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#68

m/p-Xylenes

Concen: 105.674 ug/l

RT: 11.86 min Scan# 1689

Delta R.T. 0.00 min

Lab File: VD064482.D

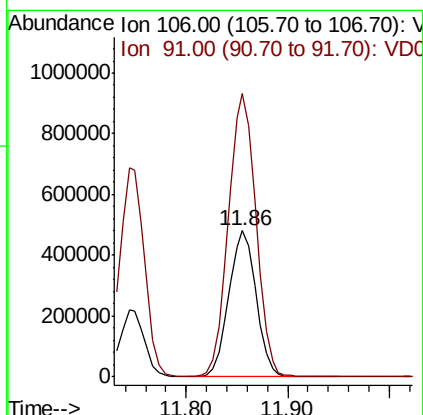
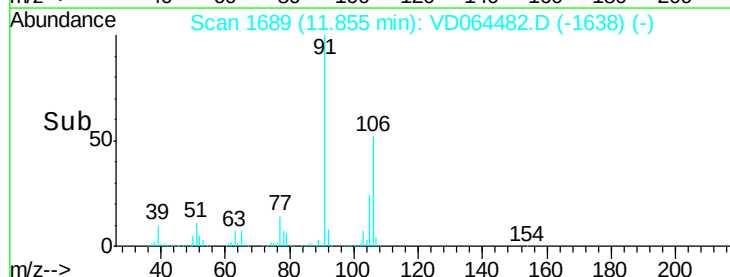
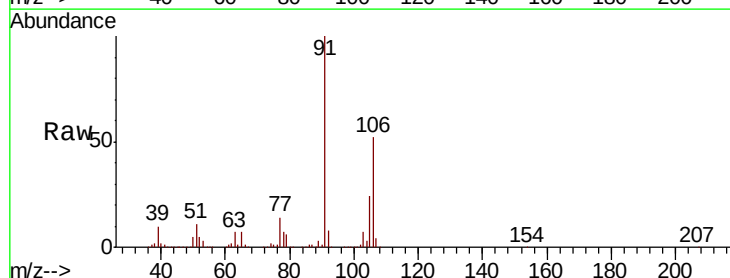
Acq: 10 Dec 2019 10:21

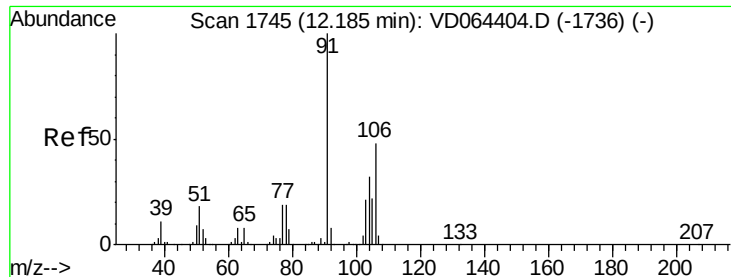
Tgt Ion: 106 Resp: 897759

Ion Ratio Lower Upper

106 100

91 196.1 157.4 236.2





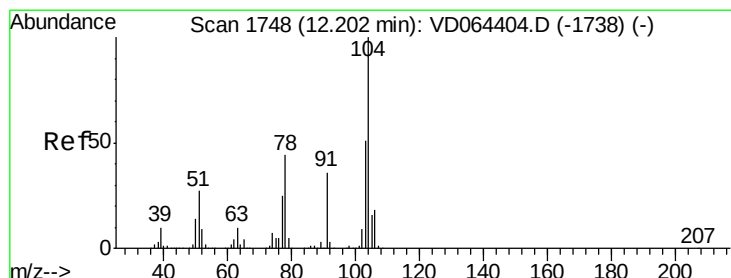
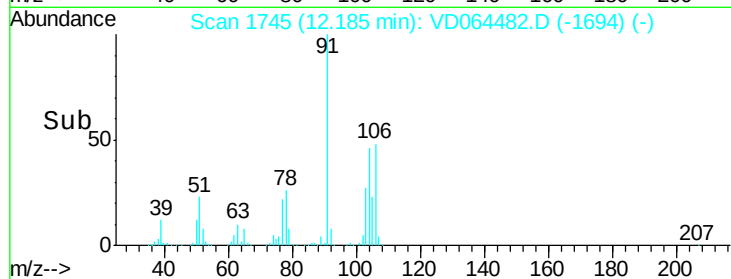
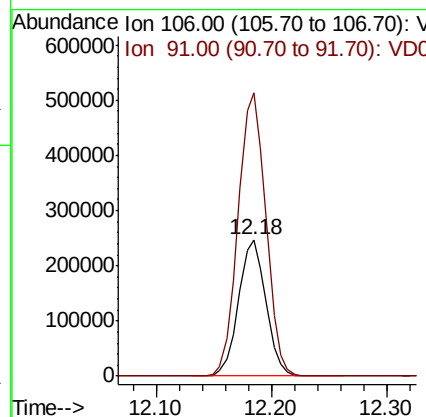
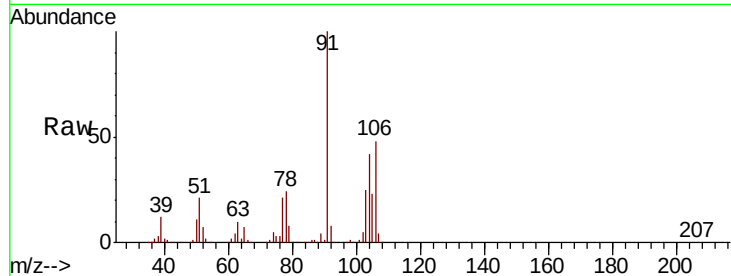
#69  
o-Xylene  
Concen: 51.362 ug/l  
RT: 12.18 min Scan# 1745  
Delta R.T. 0.00 min  
Lab File: VD064482.D  
Acq: 10 Dec 2019 10:21

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTD05006

| Tot Ion | Ion   | Ratio | Resp   | Lower | Upper |
|---------|-------|-------|--------|-------|-------|
| 106     | 100   |       | 402996 |       |       |
| 91      | 212.1 | 103.8 | 311.4  |       |       |

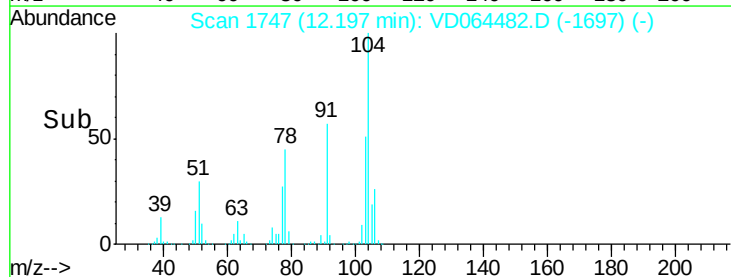
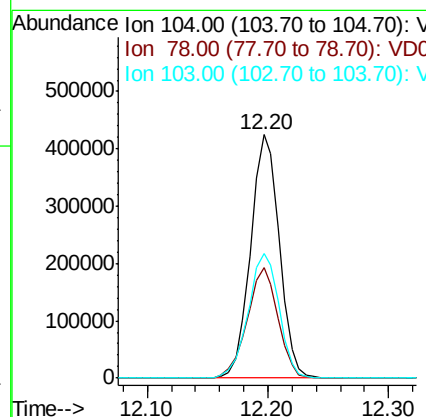
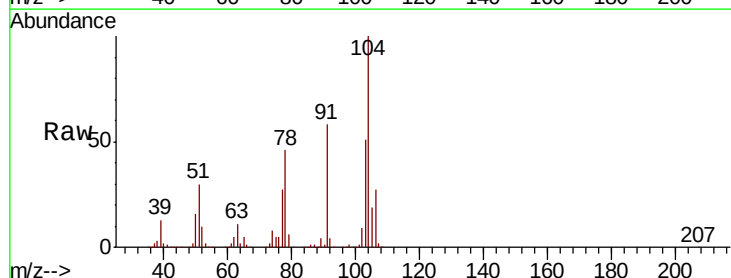
Manual Integrations  
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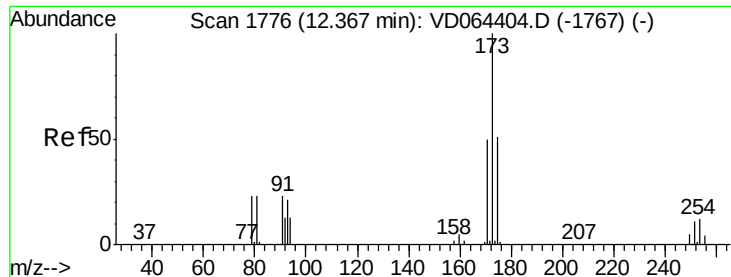


#70  
Styrene  
Concen: 51.843 ug/l  
RT: 12.20 min Scan# 1747  
Delta R.T. -0.01 min  
Lab File: VD064482.D  
Acq: 10 Dec 2019 10:21

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 104     | 100  |       | 706858 |       |       |
| 78      | 48.6 | 38.8  | 58.2   |       |       |
| 103     | 55.2 | 44.2  | 66.4   |       |       |







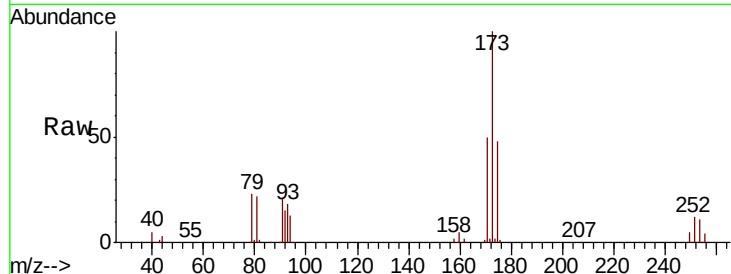
#71  
Bromoform  
Concen: 49.327 ug/l  
RT: 12.36 min Scan# 1775  
Delta R.T. -0.01 min  
Lab File: VD064482.D  
Acq: 10 Dec 2019 10:21

Instrument :  
MSVOA\_D  
ClientSampled :  
VSTD05006

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 173     | 100   |       |       |
| 175     | 49.4  | 25.3  | 75.8  |
| 254     | 0.1   | 0.0   | 0.0   |

Manual Integrations  
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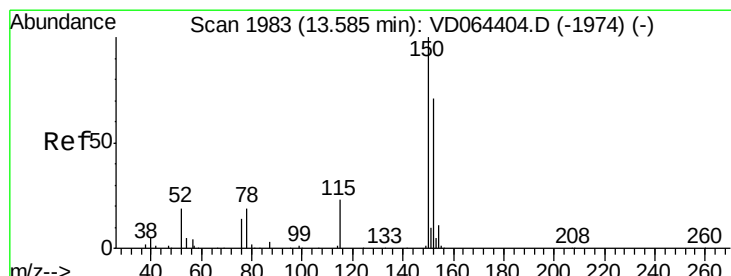
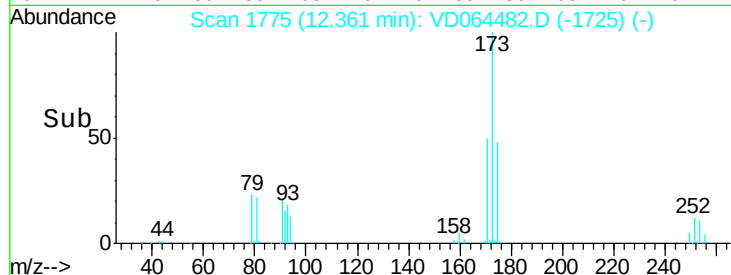
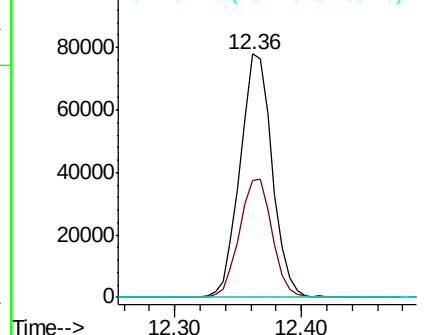


Abundance

Ion 172.70 (172.40 to 173.40): V

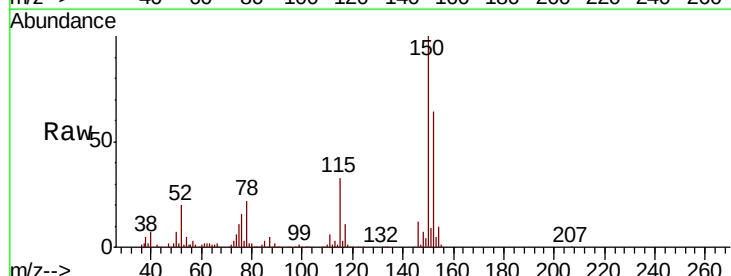
Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1982  
Delta R.T. -0.01 min  
Lab File: VD064482.D  
Acq: 10 Dec 2019 10:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 55.0  | 26.7  | 80.1  |
| 150     | 174.2 | 0.0   | 347.2 |

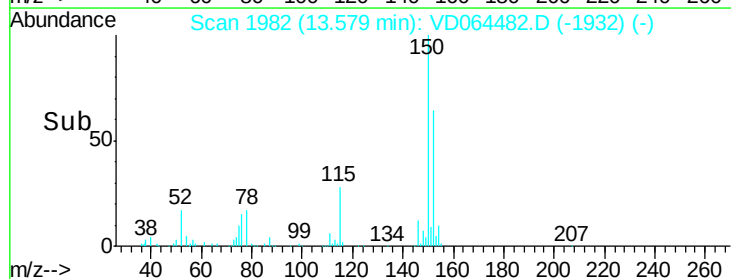
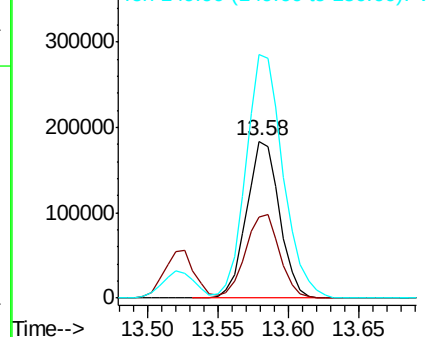


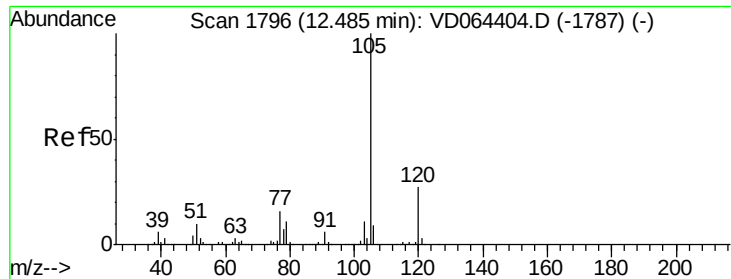
Abundance

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: 51.770 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VD064482.D

Acq: 10 Dec 2019 10:21

Instrument :

MSVOA\_D

ClientSampleId :

VSTD05006

Tot Ion: 105 Resp: 1122147

Ion Ratio Lower Upper

105 100

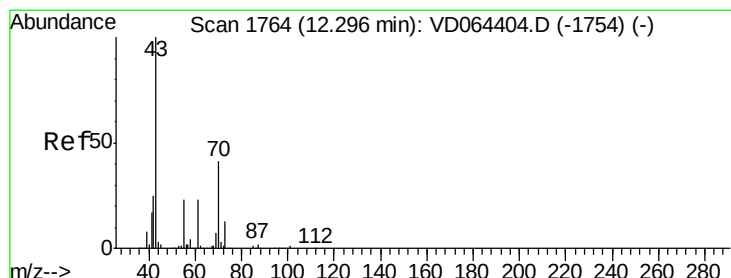
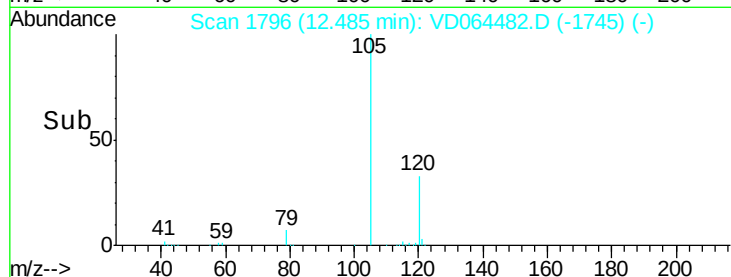
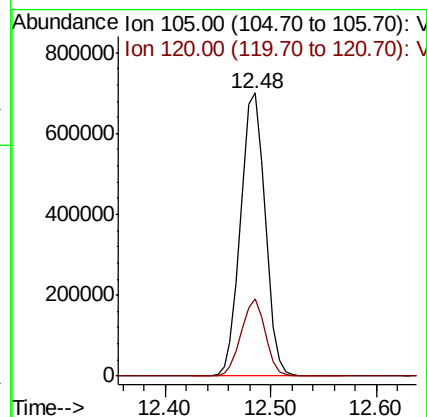
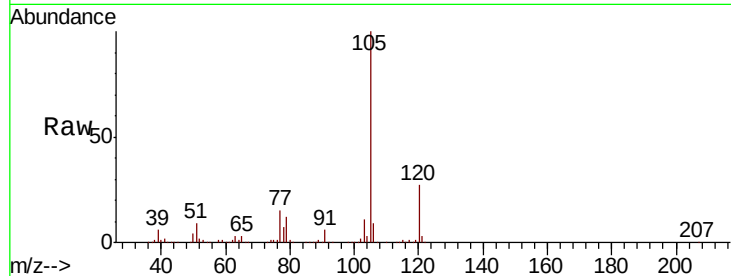
120 26.6 13.4 40.2

Manual Integrations

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#74

N-ethyl acetate

Concen: 47.916 ug/l

RT: 12.29 min Scan# 1763

Delta R.T. -0.01 min

Lab File: VD064482.D

Acq: 10 Dec 2019 10:21

Tgt Ion: 43 Resp: 235723

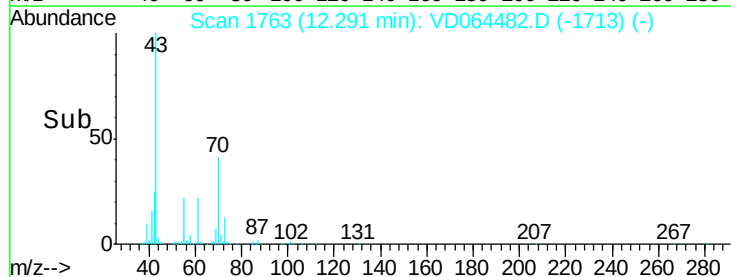
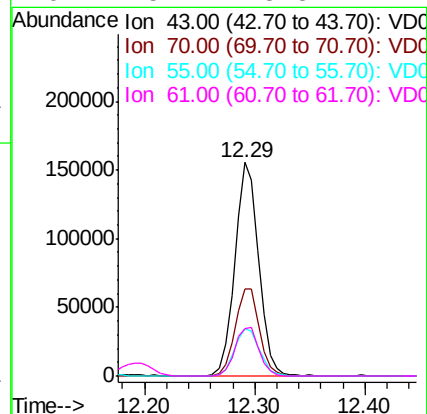
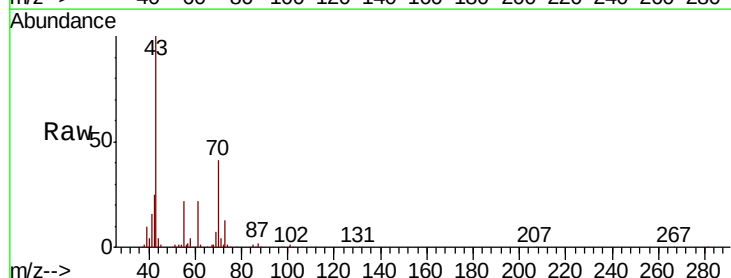
Ion Ratio Lower Upper

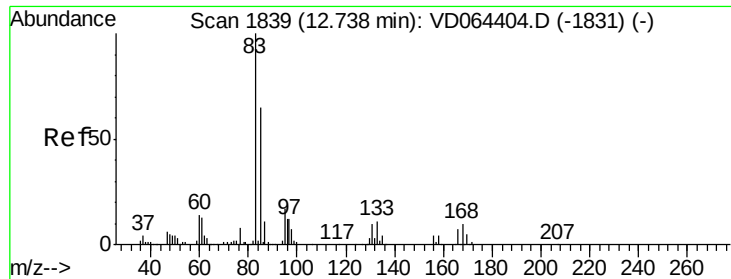
43 100

70 41.9 33.4 50.2

55 23.2 18.9 28.3

61 23.1 18.5 27.7





#75

1,1,2,2-Tetrachloroethane

Concen: 45.737 ug/l

RT: 12.74 min Scan# 1839

Delta R.T. 0.00 min

Lab File: VD064482.D

Acq: 10 Dec 2019 10:21

Instrument :

MSVOA\_D

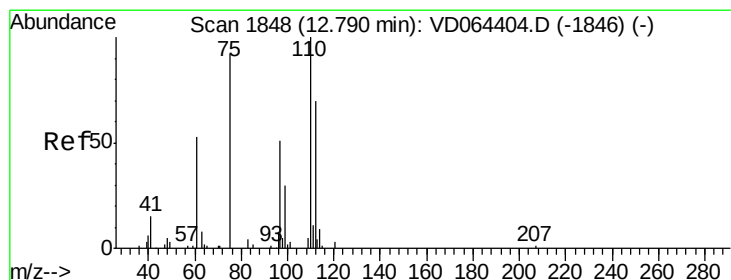
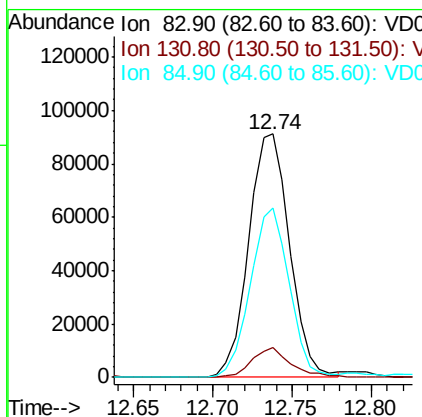
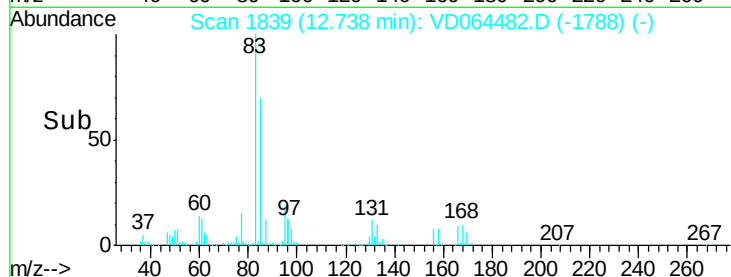
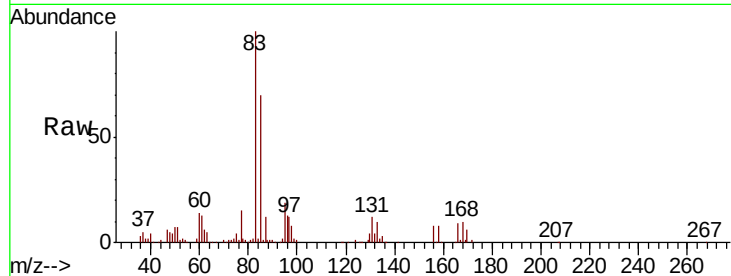
ClientSampleId :

VSTD05006

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 83    | Resp: | 163944 |
| Ion Ratio | Lower | Upper |        |
| 83        | 100   |       |        |
| 131       | 11.8  | 5.7   | 17.0   |
| 85        | 66.2  | 31.3  | 93.9   |

Manual Integrations  
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#76

1,2,3-Trichloropropane

Concen: 49.972 ug/l m

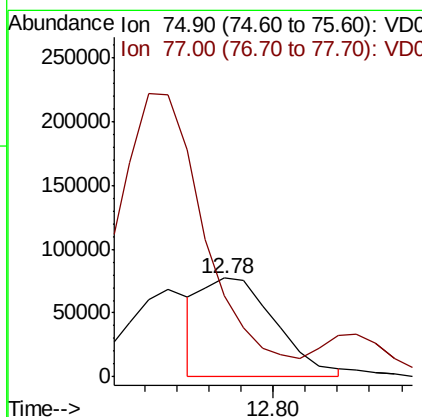
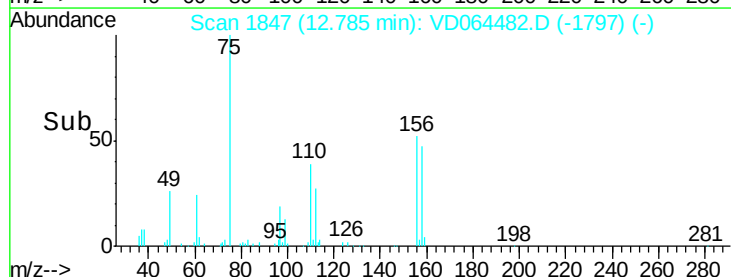
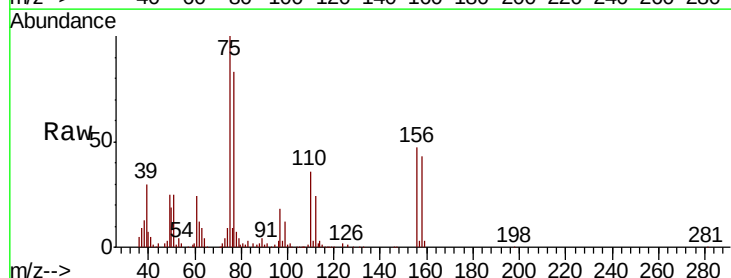
RT: 12.78 min Scan# 1847

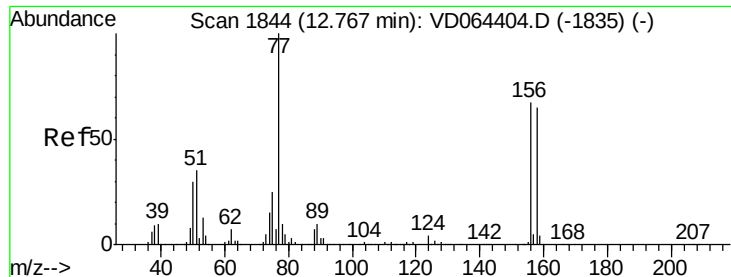
Delta R.T. -0.01 min

Lab File: VD064482.D

Acq: 10 Dec 2019 10:21

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 75    | Resp: | 123853 |
| Ion Ratio | Lower | Upper |        |
| 75        | 100   |       |        |
| 77        | 0.0   | 0.0   | 0.0    |





#77

Bromobenzene

Concen: 50.545 ug/l

RT: 12.77 min Scan# 1844

Delta R.T. 0.00 min

Lab File: VD064482.D

Acq: 10 Dec 2019 10:21

Instrument :

MSVOA\_D

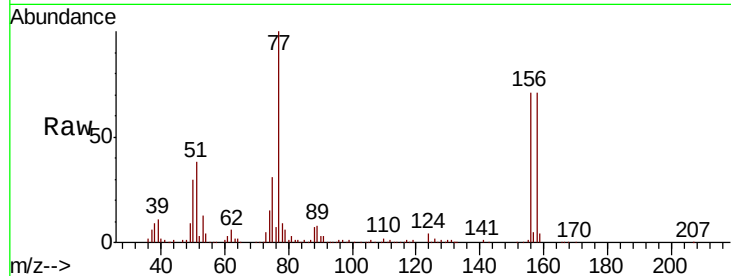
ClientSampleId :

VSTD05006

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 156   | Resp: | 270553 |
| Ion Ratio | Lower | Upper |        |
| 156       | 100   |       |        |
| 77        | 157.9 | 80.0  | 240.2  |
| 158       | 97.2  | 48.9  | 146.6  |

Manual Integrations  
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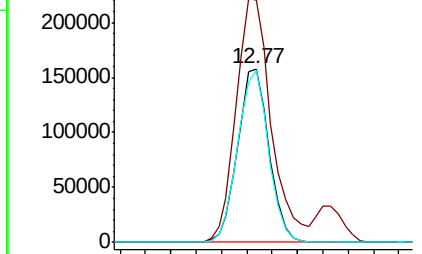
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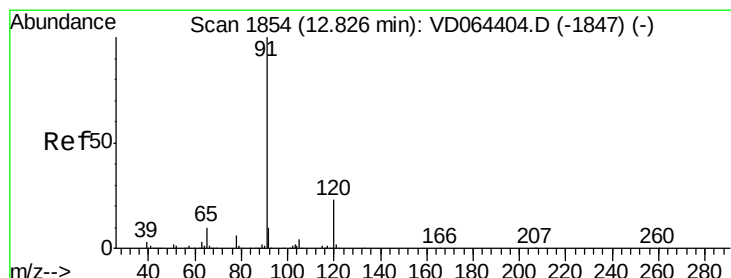
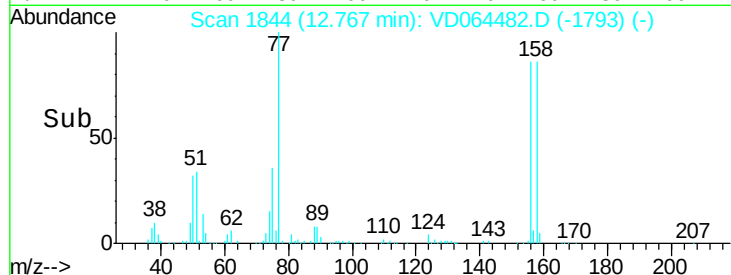
Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VDC

Ion 157.80 (157.50 to 158.50): V



Time-->



#78

n-propylbenzene

Concen: 51.806 ug/l

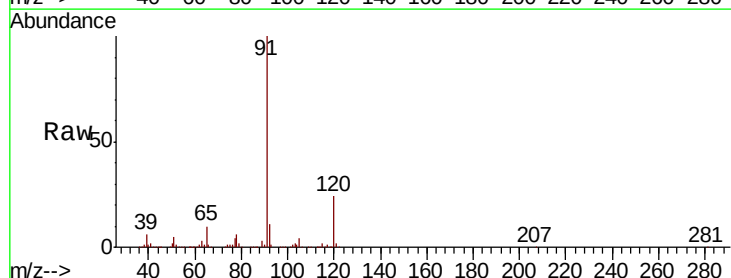
RT: 12.83 min Scan# 1854

Delta R.T. 0.00 min

Lab File: VD064482.D

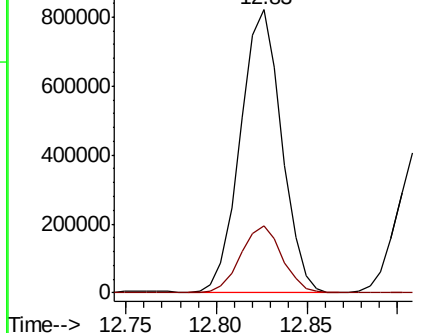
Acq: 10 Dec 2019 10:21

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 91    | Resp: | 1295640 |
| Ion Ratio | Lower | Upper |         |
| 91        | 100   |       |         |
| 120       | 23.8  | 11.9  | 35.9    |

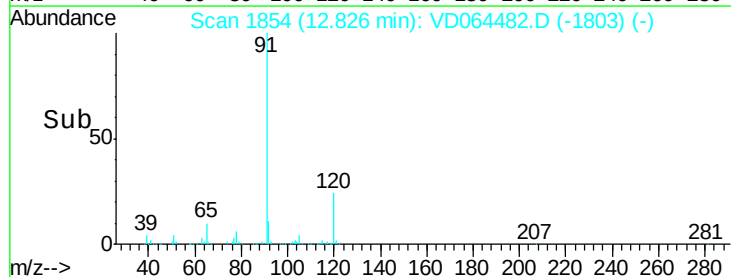


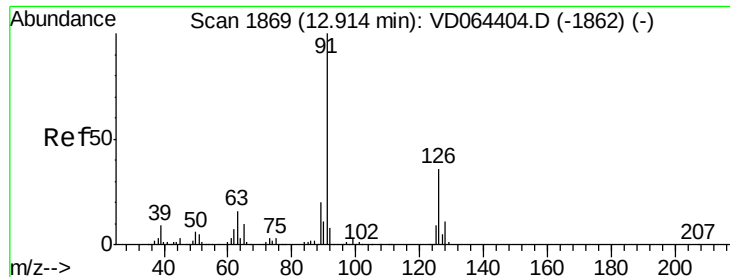
Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.00 (119.70 to 120.70): V



Time-->





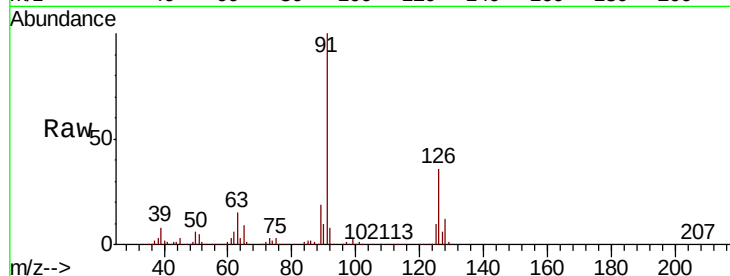
#79  
2-Chlorotoluene  
Concen: 51.148 ug/l  
RT: 12.91 min Scan# 1869  
Delta R.T. 0.00 min  
Lab File: VD064482.D  
Acq: 10 Dec 2019 10:21

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTD05006

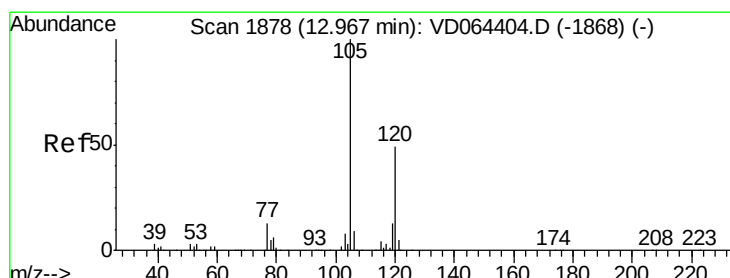
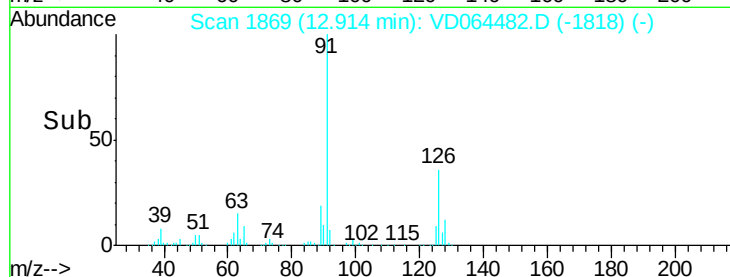
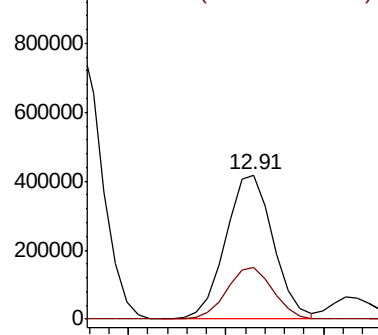
Tot Ion: 91 Resp: 703859  
Ion Ratio Lower Upper  
91 100  
126 35.5 18.0 54.0

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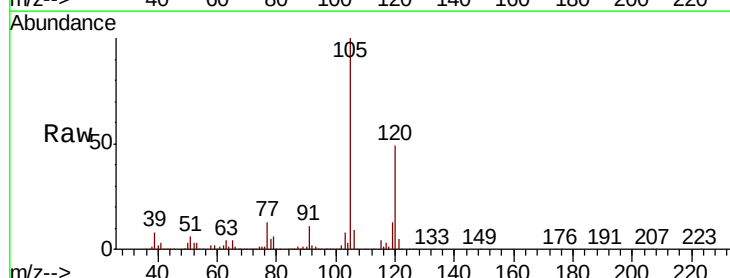


Abundance Ion 91.00 (90.70 to 91.70): VD  
Ion 125.90 (125.60 to 126.60): V

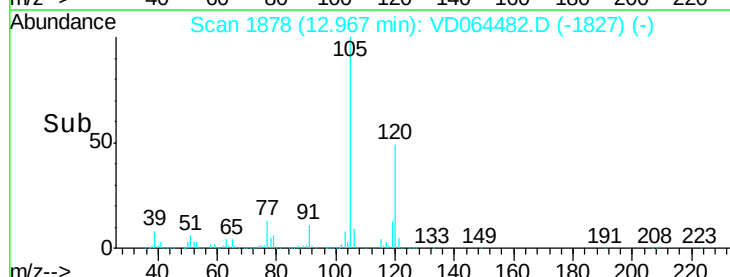
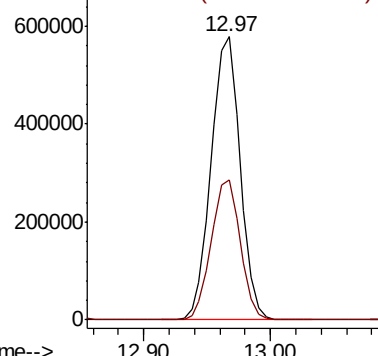


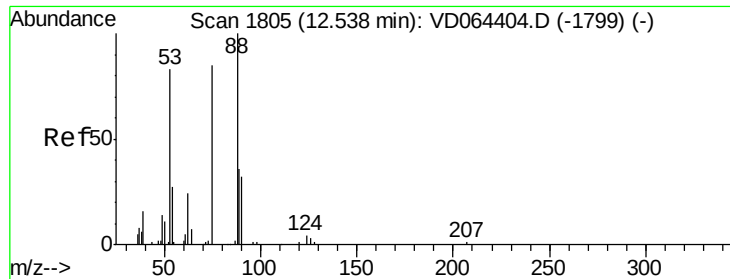
#80  
1,3,5-Trimethylbenzene  
Concen: 51.731 ug/l  
RT: 12.97 min Scan# 1878  
Delta R.T. 0.00 min  
Lab File: VD064482.D  
Acq: 10 Dec 2019 10:21

Tgt Ion: 105 Resp: 916313  
Ion Ratio Lower Upper  
105 100  
120 49.7 25.1 75.3



Abundance Ion 105.00 (104.70 to 105.70): V  
Ion 120.00 (119.70 to 120.70): V





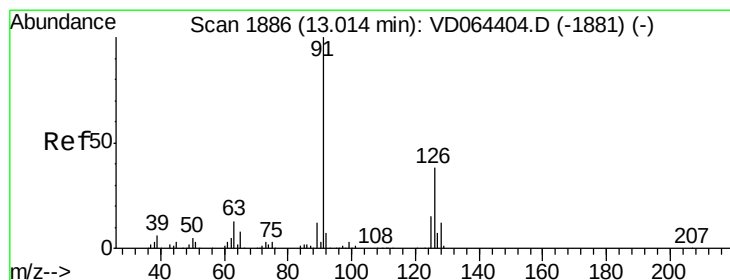
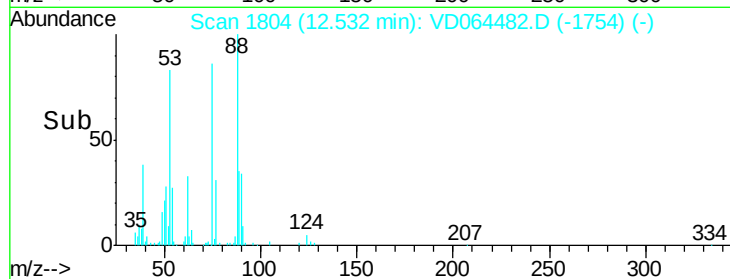
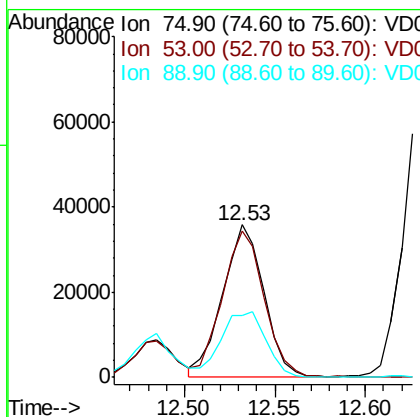
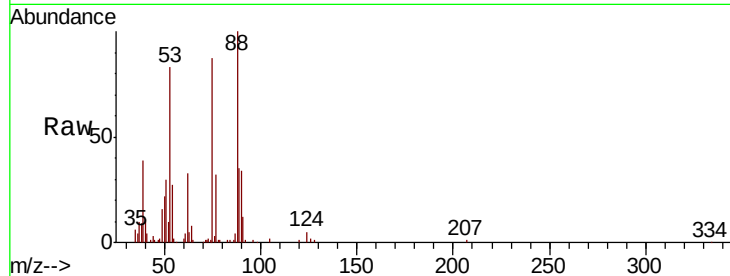
#81  
trans-1,4-Dichloro-2-butene  
Concen: 48.997 ug/l  
RT: 12.53 min Scan# 1804  
Delta R.T. -0.01 min  
Lab File: VD064482.D  
Acq: 10 Dec 2019 10:21

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTD05006

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 53      | 99.7  | 81.0  | 121.6 |
| 89      | 48.5  | 38.5  | 57.7  |

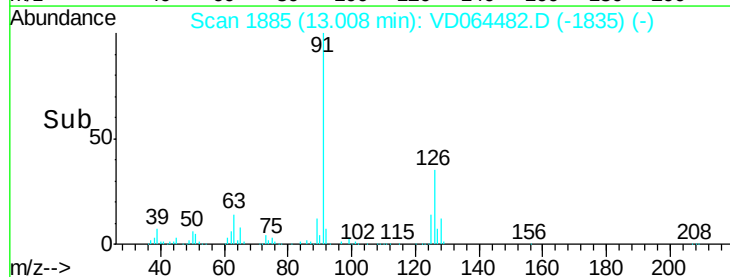
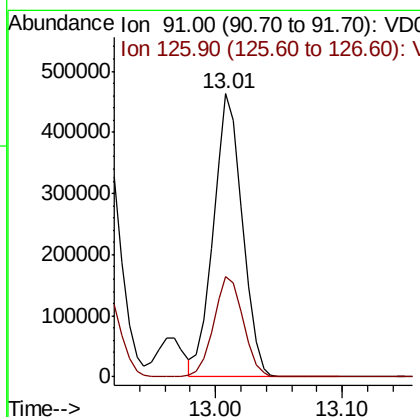
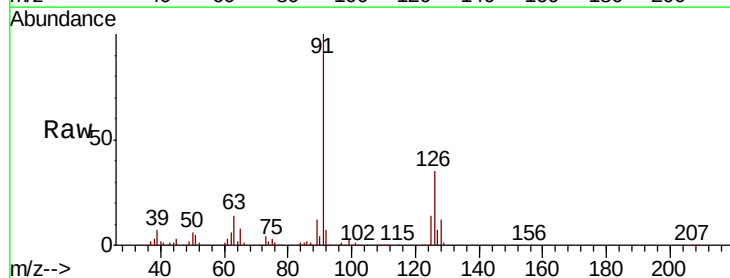
Manual Integrations  
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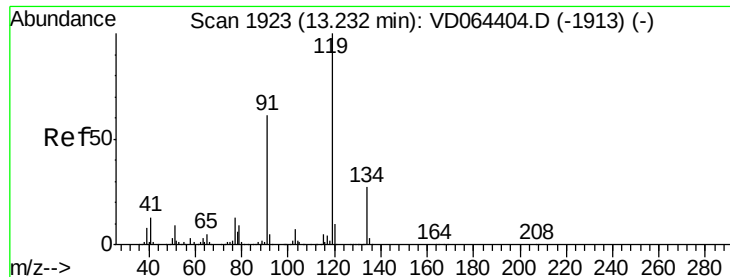
apatel  
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#82  
4-Chlorotoluene  
Concen: 50.417 ug/l  
RT: 13.01 min Scan# 1885  
Delta R.T. -0.01 min  
Lab File: VD064482.D  
Acq: 10 Dec 2019 10:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 126     | 36.2  | 18.2  | 54.6  |





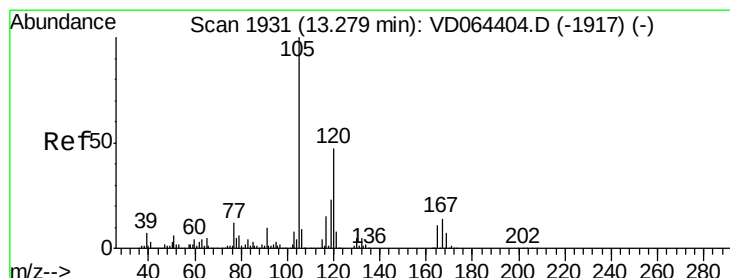
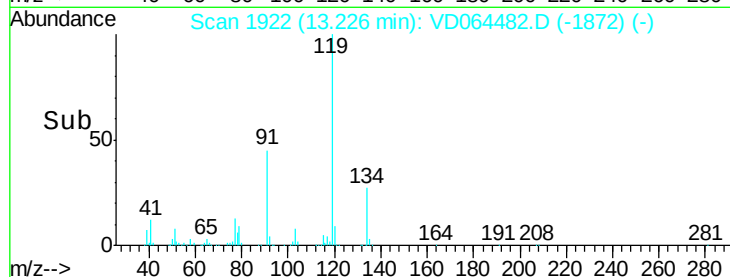
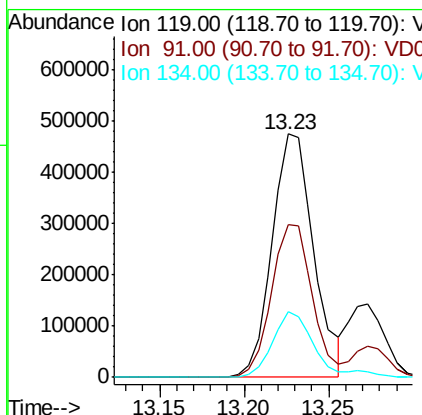
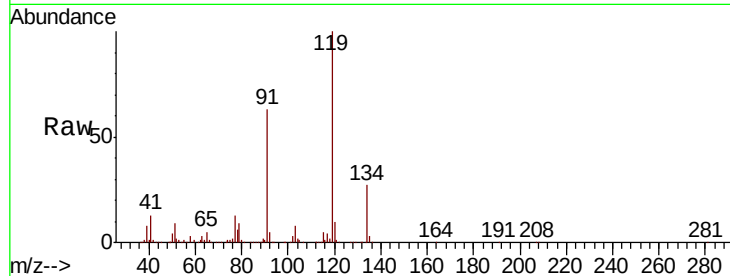
#83  
 tert-Butylbenzene  
 Concen: 52.732 ug/l  
 RT: 13.23 min Scan# 1922  
 Delta R.T. -0.01 min  
 Lab File: VD064482.D  
 Acq: 10 Dec 2019 10:21

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTD05006

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 91      | 61.5  | 31.2  | 93.6  |
| 134     | 27.3  | 13.9  | 41.7  |

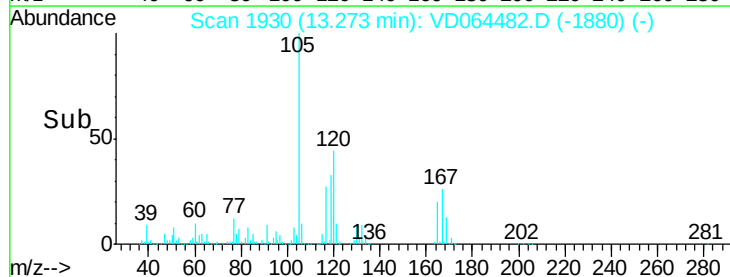
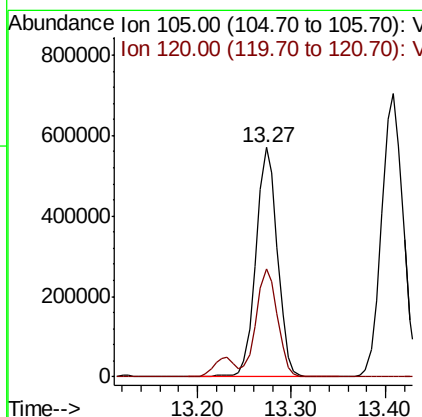
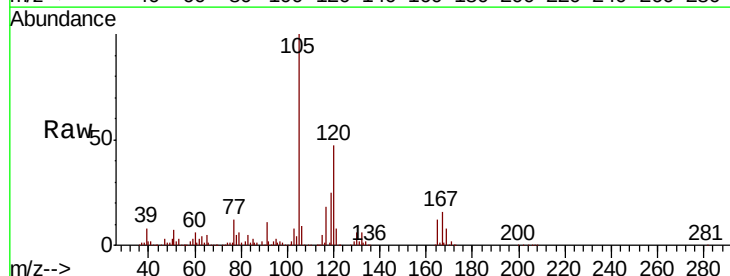
Manual Integrations  
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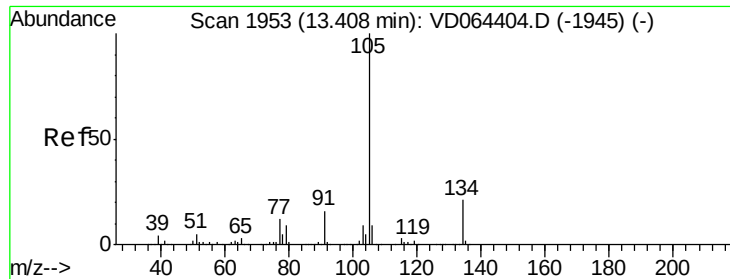
apatel  
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#84  
 1,2,4-Trimethylbenzene  
 Concen: 50.604 ug/l  
 RT: 13.27 min Scan# 1930  
 Delta R.T. -0.01 min  
 Lab File: VD064482.D  
 Acq: 10 Dec 2019 10:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 47.1  | 23.6  | 70.8  |





#85

sec-Butylbenzene

Concen: 52.548 ug/l

RT: 13.41 min Scan# 1953

Delta R.T. 0.00 min

Lab File: VD064482.D

Acq: 10 Dec 2019 10:21

Instrument :

MSVOA\_D

ClientSampleId :

VSTD05006

Tot Ion:105 Resp: 1110614

Ion Ratio Lower Upper

105 100

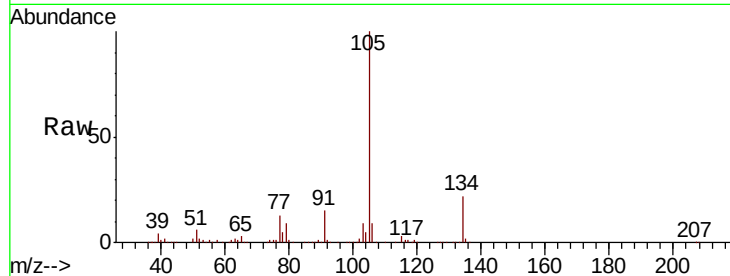
134 21.3 10.5 31.5

Manual Integrations

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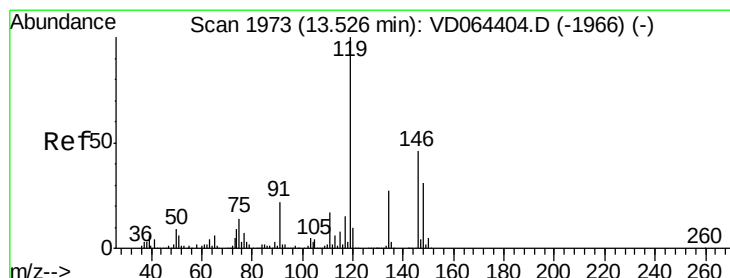
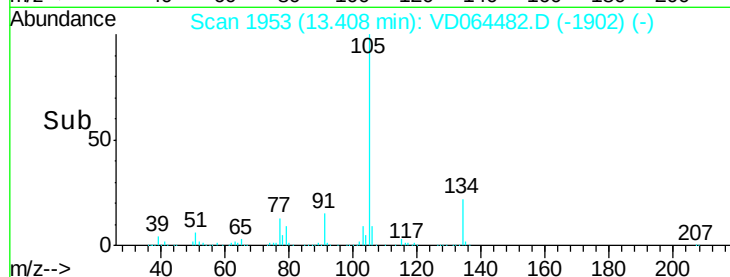
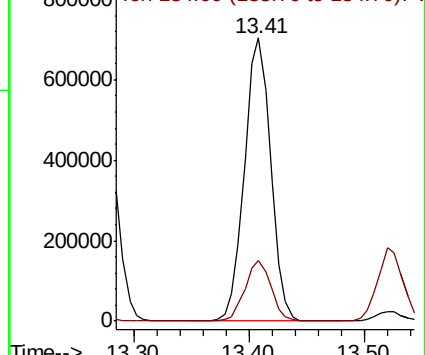
apatel

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 52.907 ug/l

RT: 13.52 min Scan# 1972

Delta R.T. -0.01 min

Lab File: VD064482.D

Acq: 10 Dec 2019 10:21

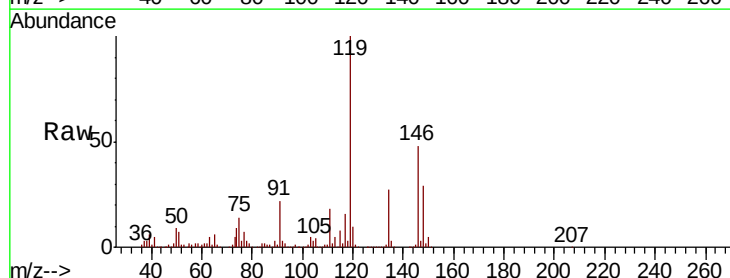
Tgt Ion:119 Resp: 1055692

Ion Ratio Lower Upper

119 100

134 26.4 13.5 40.4

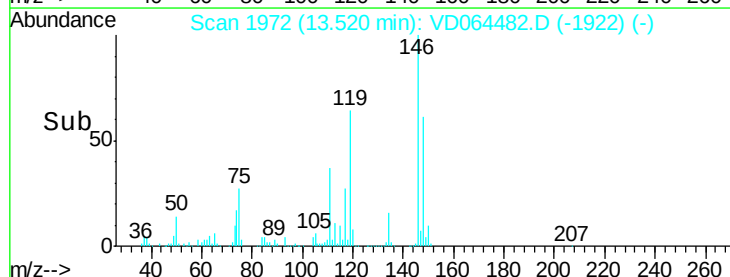
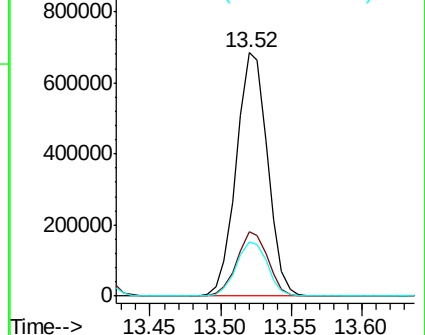
91 22.4 11.2 33.5



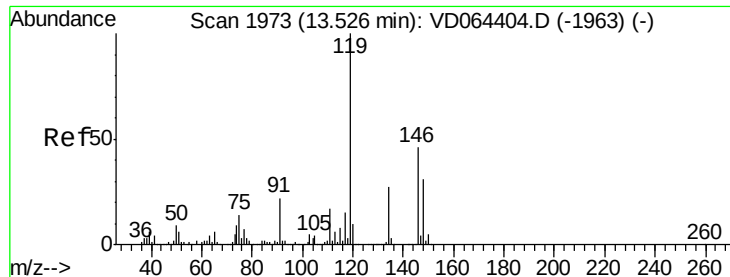
Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V







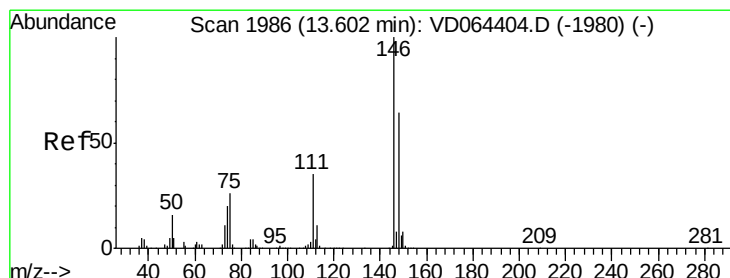
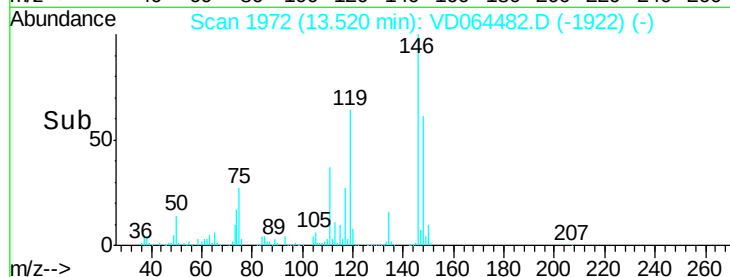
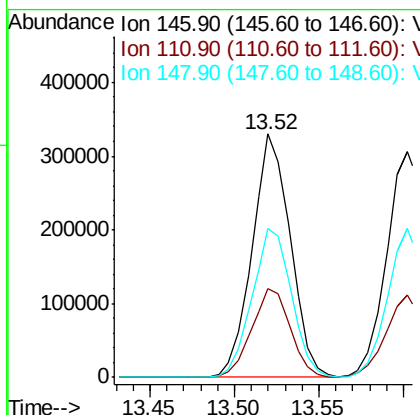
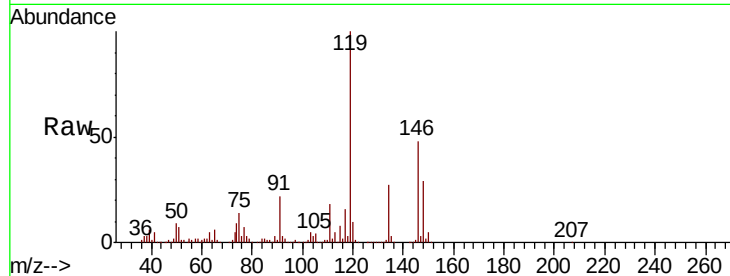
#87  
 1,3-Dichlorobenzene  
 Concen: 51.087 ug/l  
 RT: 13.52 min Scan# 1972  
 Delta R.T. -0.01 min  
 Lab File: VD064482.D  
 Acq: 10 Dec 2019 10:21

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTD05006

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 146     | 100   | 519006 |       |       |
| 111     | 37.0  |        | 18.8  | 56.4  |
| 148     | 63.1  |        | 32.6  | 97.8  |

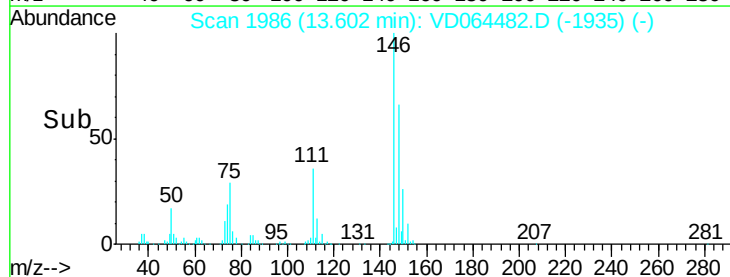
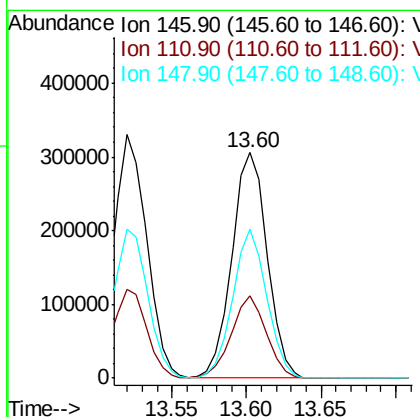
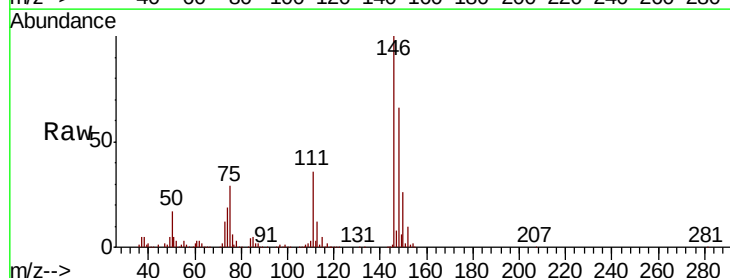
Manual Integrations  
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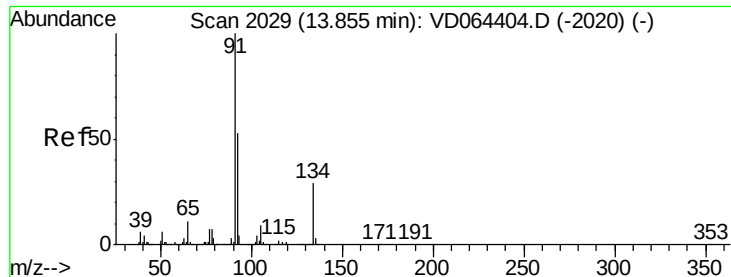
apatel  
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#88  
 1,4-Dichlorobenzene  
 Concen: 50.210 ug/l  
 RT: 13.60 min Scan# 1986  
 Delta R.T. 0.00 min  
 Lab File: VD064482.D  
 Acq: 10 Dec 2019 10:21

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 146     | 100   | 503615 |       |       |
| 111     | 36.0  |        | 18.2  | 54.6  |
| 148     | 63.5  |        | 31.8  | 95.4  |





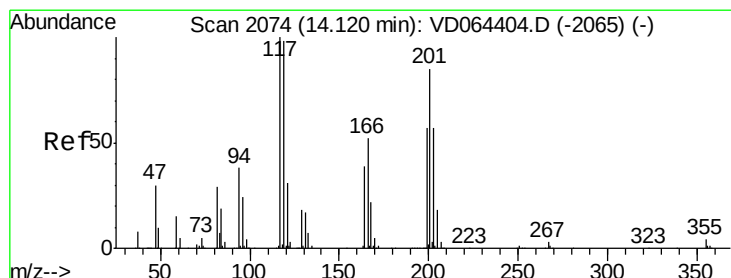
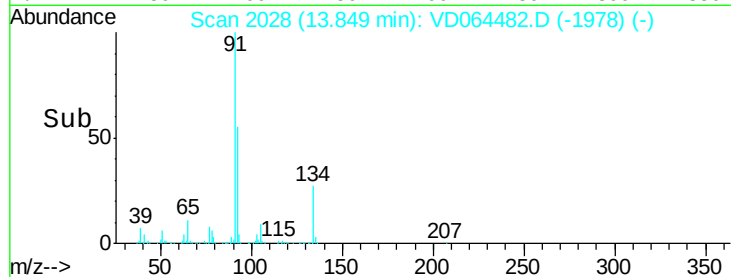
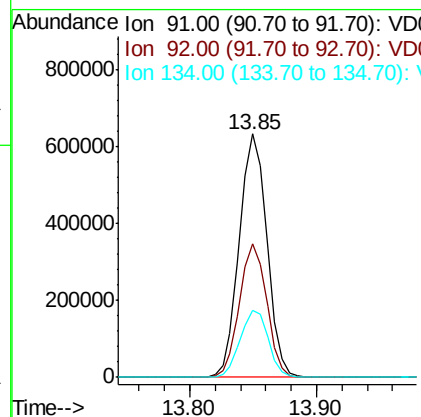
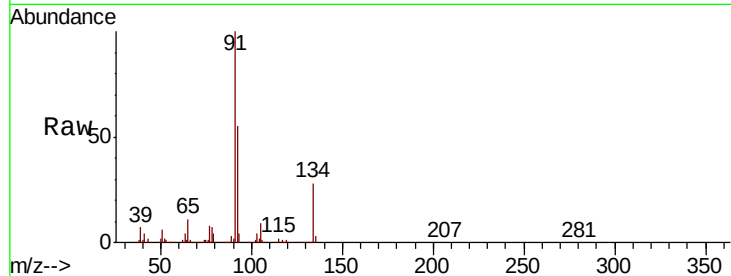
#89  
n-Butylbenzene  
Concen: 52.568 ug/l  
RT: 13.85 min Scan# 2028  
Delta R.T. -0.01 min  
Lab File: VD064482.D  
Acq: 10 Dec 2019 10:21

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTD05006

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 91      | 100   |      |       |       |
| 92      | 54.1  | 26.5 | 79.4  |       |
| 134     | 27.9  | 13.9 | 41.7  |       |

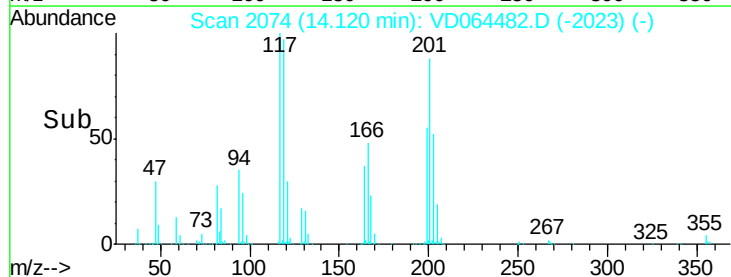
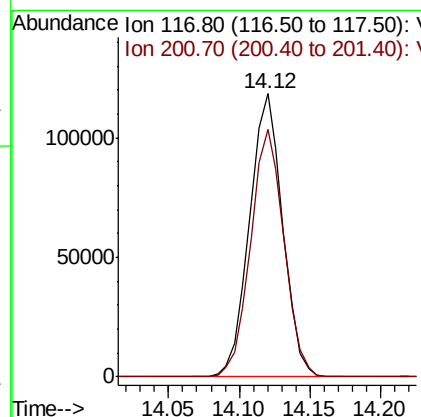
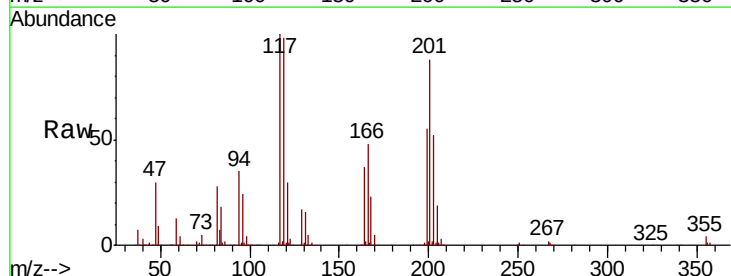
Manual Integrations  
APPROVED

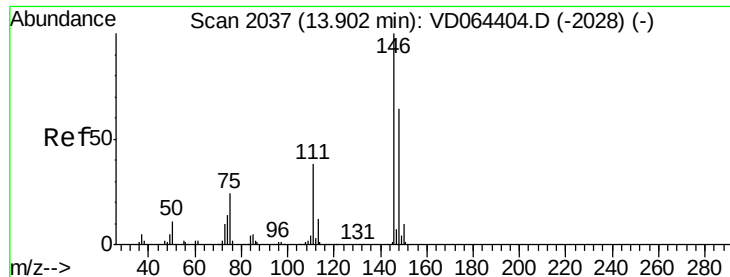
apatel  
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#90  
Hexachloroethane  
Concen: 52.299 ug/l  
RT: 14.12 min Scan# 2074  
Delta R.T. 0.00 min  
Lab File: VD064482.D  
Acq: 10 Dec 2019 10:21

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 117     | 100   |      |       |       |
| 201     | 88.1  | 44.3 | 132.8 |       |





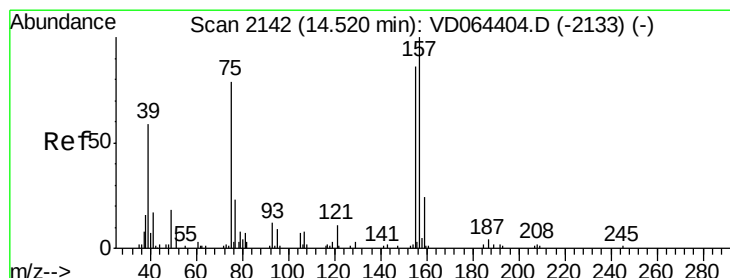
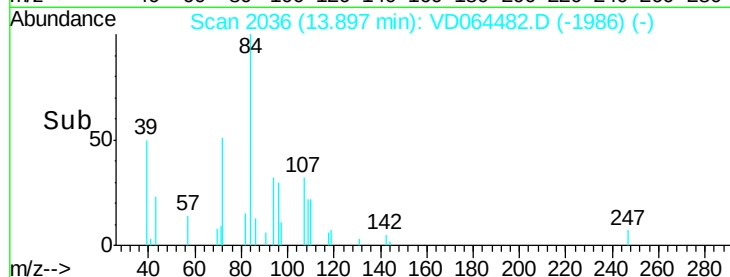
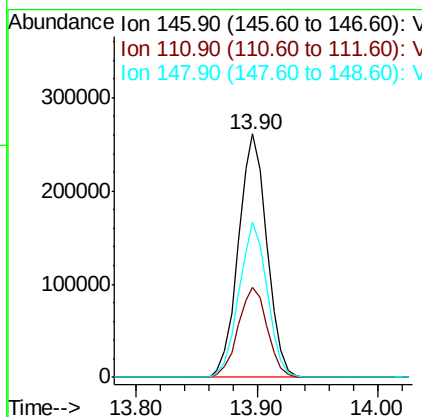
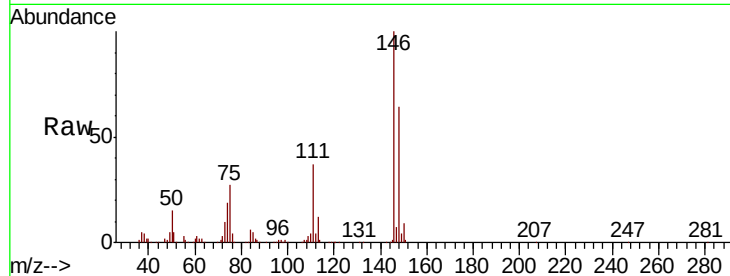
#91  
 1,2-Dichlorobenzene  
 Concen: 49.518 ug/l  
 RT: 13.90 min Scan# 2036  
 Delta R.T. -0.01 min  
 Lab File: VD064482.D  
 Acq: 10 Dec 2019 10:21

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTD05006

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 37.6  | 19.1  | 57.3  |
| 148     | 63.2  | 32.0  | 96.0  |

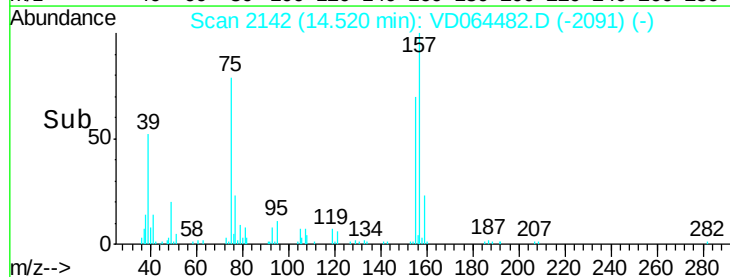
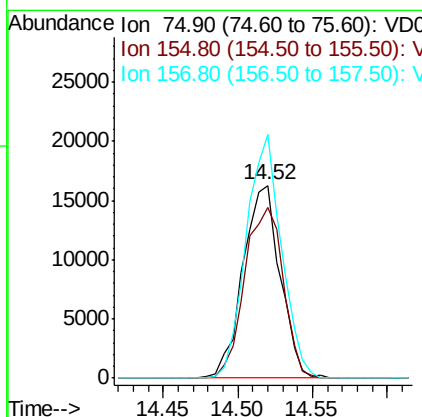
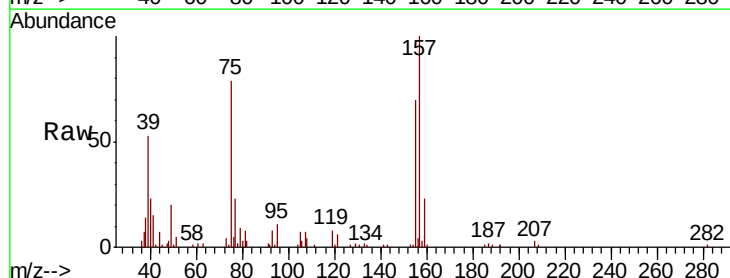
Manual Integrations  
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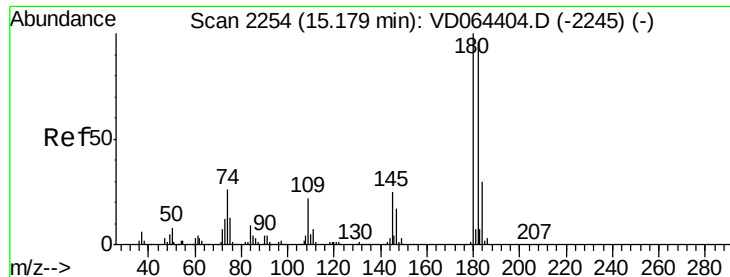
apatel  
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#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 52.557 ug/l  
 RT: 14.52 min Scan# 2142  
 Delta R.T. 0.00 min  
 Lab File: VD064482.D  
 Acq: 10 Dec 2019 10:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 155     | 91.7  | 51.9  | 155.7 |
| 157     | 119.8 | 63.2  | 189.8 |





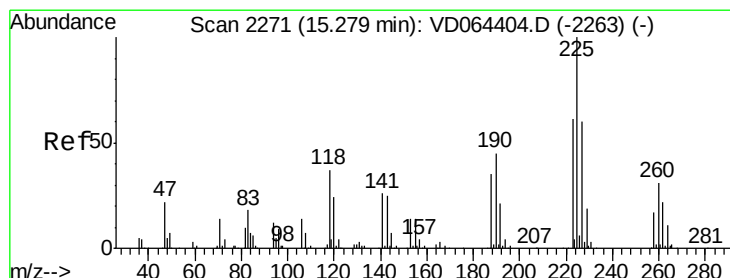
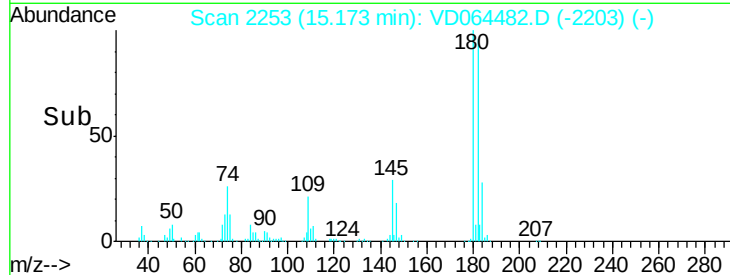
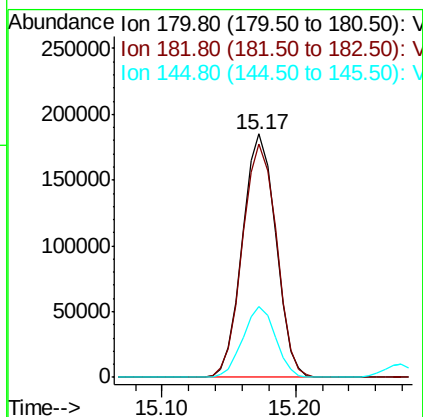
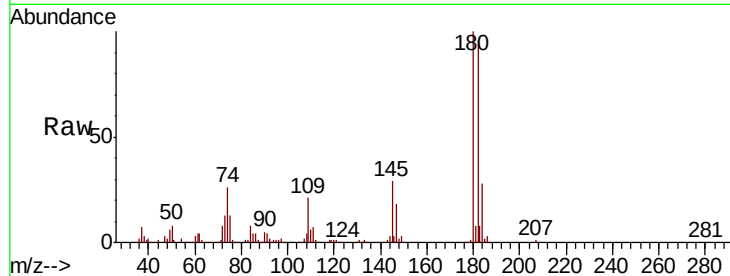
#93  
 1,2,4-Trichlorobenzene  
 Concen: 48.271 ug/l  
 RT: 15.17 min Scan# 2253  
 Delta R.T. -0.01 min  
 Lab File: VD064482.D  
 Acq: 10 Dec 2019 10:21

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTD05006

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 180     | 100   |      |       |       |
| 182     | 97.6  | 47.4 | 142.3 |       |
| 145     | 28.3  | 14.0 | 41.9  |       |

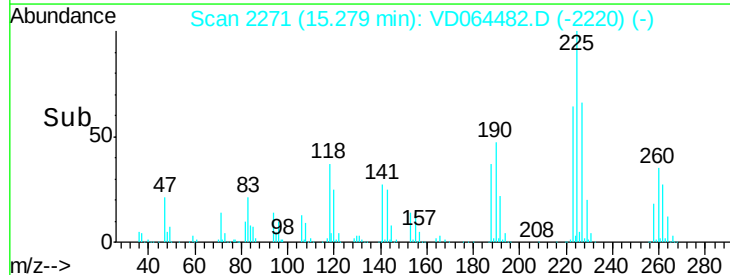
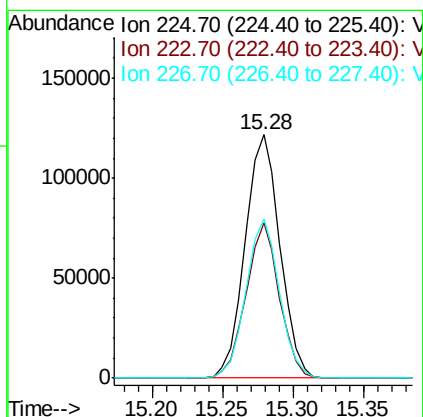
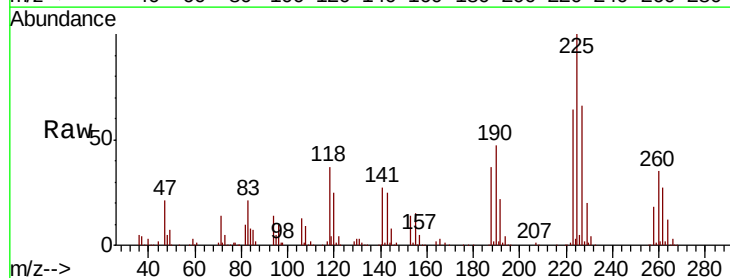
Manual Integrations  
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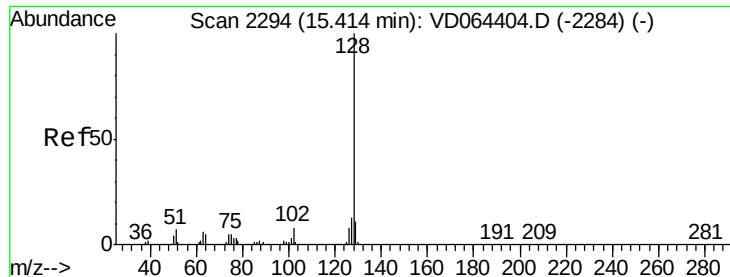
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#94  
 Hexachlorobutadiene  
 Concen: 51.262 ug/l  
 RT: 15.28 min Scan# 2271  
 Delta R.T. 0.00 min  
 Lab File: VD064482.D  
 Acq: 10 Dec 2019 10:21

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 225     | 100   |      |       |       |
| 223     | 60.9  | 31.1 | 93.3  |       |
| 227     | 62.9  | 31.8 | 95.4  |       |





#95

Naphthalene

Concen: 46.798 ug/l

RT: 15.41 min Scan# 2294

Delta R.T. 0.00 min

Lab File: VD064482.D

Acq: 10 Dec 2019 10:21

Instrument :

MSVOA\_D

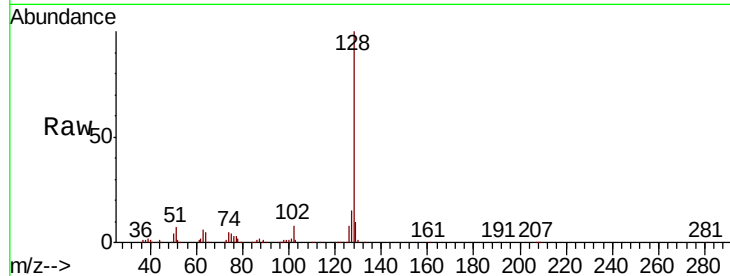
ClientSampleId :

VSTD05006

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 128   | Resp: | 519312 |
| Ion Ratio | Lower | Upper |        |
| 128       | 100   |       |        |
| 127       | 13.8  | 10.5  | 15.7   |
| 129       | 11.0  | 8.8   | 13.2   |

Manual Integrations  
APPROVED

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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

15.41

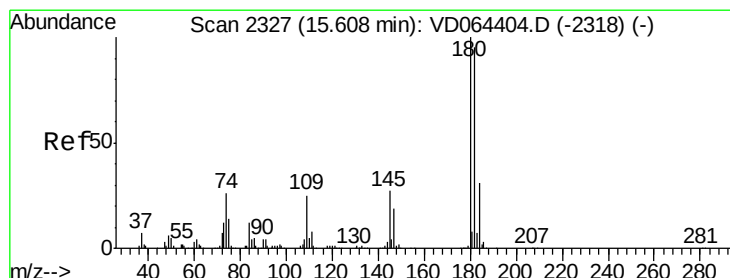
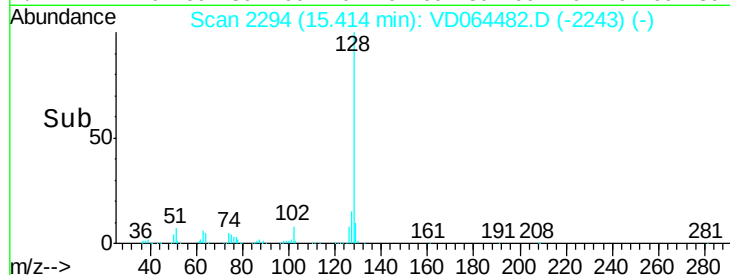
300000

200000

100000

0

Time--> 15.30 15.40 15.50



#96

1,2,3-Trichlorobenzene

Concen: 48.818 ug/l

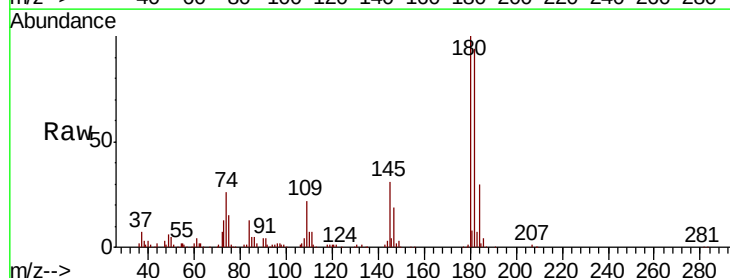
RT: 15.61 min Scan# 2327

Delta R.T. 0.00 min

Lab File: VD064482.D

Acq: 10 Dec 2019 10:21

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 180   | Resp: | 277085 |
| Ion Ratio | Lower | Upper |        |
| 180       | 100   |       |        |
| 182       | 95.1  | 47.6  | 142.9  |
| 145       | 29.7  | 14.6  | 43.8   |



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

15.61

150000

100000

50000

0

Time--> 15.50 15.60 15.70

