

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD012319\  
 Data File : VD060788.D  
 Acq On : 23 Jan 2019 18:03  
 Operator : VA/AP  
 Sample : VSTDIC100  
 Misc : 5.00g/5ml/MSVOA D/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDIC100

Manual Integrations  
 APPROVED

MMDadoda  
 1/24/2019 12:50:08 PM

Quant Time: Jan 24 06:05:11 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D012319S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jan 24 05:41:01 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 6.80  | 168  | 657501   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 7.98  | 114  | 933052   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 12.16 | 117  | 714474   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 14.32 | 152  | 345220   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 7.22   | 65  | 796864   | 92.12 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 184.24% |      |
| 35) Dibromofluoromethane  | 6.68   | 113 | 698877   | 84.72 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 169.44% |      |
| 50) Toluene-d8            | 10.19  | 98  | 1652120  | 84.66 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 169.32% |      |
| 62) 4-Bromofluorobenzene  | 13.35  | 95  | 794118   | 83.65 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 167.30% |      |

## Target Compounds

|                               |      |     |         |         |        | Qvalue |
|-------------------------------|------|-----|---------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.59 | 85  | 873579  | 104.956 | ug/l   | 97     |
| 3) Chloromethane              | 1.76 | 50  | 494657  | 113.462 | ug/l   | 99     |
| 4) Vinyl Chloride             | 1.85 | 62  | 520626  | 105.459 | ug/l   | 97     |
| 5) Bromomethane               | 2.13 | 94  | 127299  | 88.101  | ug/l   | 92     |
| 6) Chloroethane               | 2.24 | 64  | 134788  | 76.176  | ug/l   | 98     |
| 7) Trichlorofluoromethane     | 2.49 | 101 | 853533  | 90.003  | ug/l   | 100    |
| 8) Diethyl Ether              | 2.80 | 74  | 130578  | 116.424 | ug/l   | 88     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.06 | 101 | 474734  | 101.105 | ug/l   | 95     |
| 10) Methyl Iodide             | 3.21 | 142 | 521967  | 103.255 | ug/l   | 99     |
| 11) Tert butyl alcohol        | 3.93 | 59  | 248883  | 497.574 | ug/l   | 98     |
| 12) 1,1-Dichloroethene        | 3.04 | 96  | 329113  | 100.611 | ug/l   | 93     |
| 13) Acrolein                  | 2.96 | 56  | 84386   | 451.727 | ug/l   | 97     |
| 14) Allyl chloride            | 3.50 | 41  | 740843  | 106.476 | ug/l   | 97     |
| 15) Acrylonitrile             | 4.04 | 53  | 554032  | 476.031 | ug/l   | 98     |
| 16) Acetone                   | 3.14 | 43  | 634319  | 527.999 | ug/l   | 92     |
| 17) Carbon Disulfide          | 3.28 | 76  | 1116050 | 103.417 | ug/l   | 99     |
| 18) Methyl Acetate            | 3.52 | 43  | 257523  | 101.854 | ug/l # | 93     |
| 19) Methyl tert-butyl Ether   | 4.09 | 73  | 1478761 | 95.424  | ug/l   | 99     |
| 20) Methylene Chloride        | 3.68 | 84  | 606622  | 95.549  | ug/l   | 98     |
| 21) trans-1,2-Dichloroethene  | 4.05 | 96  | 616815  | 98.874  | ug/l   | 94     |
| 22) Diisopropyl ether         | 4.90 | 45  | 2047229 | 95.823  | ug/l   | 99     |
| 23) Vinyl Acetate             | 4.84 | 43  | 5801096 | 474.513 | ug/l   | 99     |
| 24) 1,1-Dichloroethane        | 4.77 | 63  | 1349663 | 104.581 | ug/l   | 98     |
| 25) 2-Butanone                | 5.84 | 43  | 927768  | 492.385 | ug/l   | 94     |
| 26) 2,2-Dichloropropane       | 5.79 | 77  | 1269908 | 99.302  | ug/l   | 96     |
| 27) cis-1,2-Dichloroethene    | 5.80 | 96  | 639389  | 99.184  | ug/l   | 98     |
| 28) Bromochloromethane        | 6.21 | 49  | 441381  | 84.274  | ug/l # | 93     |
| 29) Tetrahydrofuran           | 6.24 | 42  | 432777  | 476.782 | ug/l   | 99     |
| 30) Chloroform                | 6.42 | 83  | 1588951 | 105.361 | ug/l   | 96     |
| 31) Cyclohexane               | 6.72 | 56  | 975298  | 102.609 | ug/l   | 98     |
| 32) 1,1,1-Trichloroethane     | 6.63 | 97  | 1443887 | 101.727 | ug/l   | 98     |
| 36) 1,1-Dichloropropene       | 6.91 | 75  | 1051584 | 97.950  | ug/l   | 97     |
| 37) Ethyl Acetate             | 5.95 | 43  | 453749  | 101.692 | ug/l   | 99     |
| 38) Carbon Tetrachloride      | 6.88 | 117 | 1341341 | 101.376 | ug/l   | 99     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD012319\  
 Data File : VD060788.D  
 Acq On : 23 Jan 2019 18:03  
 Operator : VA/AP  
 Sample : VSTDICC100  
 Misc : 5.00g/5ml/MSVOA D/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleID :  
 VSTDICC100

Manual Integrations  
 APPROVED

MMDadoda  
 1/24/2019 12:50:08 PM

Quant Time: Jan 24 06:05:11 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D012319S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jan 24 05:41:01 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 8.63  | 83   | 963340   | 100.648  | ug/l   | 98       |
| 40) Benzene                    | 7.22  | 78   | 2291125  | 104.663  | ug/l   | 99       |
| 41) Methacrylonitrile          | 6.23  | 41   | 329466m  | 98.869   | ug/l   |          |
| 42) 1,2-Dichloroethane         | 7.34  | 62   | 1179695  | 99.334   | ug/l   | 96       |
| 43) Isopropyl Acetate          | 9.01  | 43   | 657743   | 95.974   | ug/l # | 99       |
| 44) Trichloroethene            | 8.30  | 130  | 748963   | 96.450   | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 8.71  | 63   | 575794   | 101.364  | ug/l   | 100      |
| 46) Dibromomethane             | 8.84  | 93   | 460727   | 99.154   | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.14  | 83   | 1160328  | 101.373  | ug/l   | 96       |
| 48) Methyl methacrylate        | 8.89  | 41   | 458135   | 99.065   | ug/l   | 97       |
| 49) 1,4-Dioxane                | 8.86  | 88   | 84152    | 2155.556 | ug/l   | 95       |
| 51) 4-Methyl-2-Pentanone       | 10.09 | 43   | 1976461  | 438.416  | ug/l   | 99       |
| 52) Toluene                    | 10.29 | 92   | 1311906  | 95.762   | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.70 | 75   | 1056683  | 94.342   | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 9.81  | 75   | 1120249  | 105.292  | ug/l   | 93       |
| 55) 1,1,2-Trichloroethane      | 10.97 | 97   | 454600   | 93.530   | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.82 | 69   | 599713   | 106.326  | ug/l   | 96       |
| 57) 1,3-Dichloropropane        | 11.20 | 76   | 735285   | 86.355   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.63  | 63   | 1367024  | 428.965  | ug/l   | 95       |
| 59) 2-Hexanone                 | 11.33 | 43   | 1552874  | 466.842  | ug/l   | 99       |
| 60) Dibromochloromethane       | 11.47 | 129  | 804206   | 104.363  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 11.59 | 107  | 572513   | 103.862  | ug/l   | 96       |
| 64) Tetrachloroethene          | 11.04 | 164  | 596608   | 95.336   | ug/l   | 95       |
| 65) Chlorobenzene              | 12.19 | 112  | 1523954  | 106.408  | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane  | 12.31 | 131  | 592281   | 92.915   | ug/l   | 100      |
| 67) Ethyl Benzene              | 12.32 | 91   | 2479336  | 92.904   | ug/l   | 98       |
| 68) m/p-Xylenes                | 12.47 | 106  | 1694907  | 193.798  | ug/l   | 99       |
| 69) o-Xylene                   | 12.84 | 106  | 801609   | 97.587   | ug/l   | 94       |
| 70) Styrene                    | 12.87 | 104  | 1300441  | 89.894   | ug/l   | 99       |
| 71) Bromoform                  | 13.03 | 173  | 532753   | 113.225  | ug/l   | 99       |
| 73) Isopropylbenzene           | 13.21 | 105  | 2433884  | 96.005   | ug/l   | 99       |
| 74) N-amyl acetate             | 13.07 | 43   | 858050   | 106.843  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 13.50 | 83   | 528593   | 112.216  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 13.53 | 75   | 610336   | 106.611  | ug/l   | 95       |
| 77) Bromobenzene               | 13.47 | 156  | 691580   | 100.866  | ug/l   | 97       |
| 78) n-propylbenzene            | 13.58 | 91   | 3290121  | 103.556  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 13.64 | 91   | 1890172  | 102.563  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 14.04 | 105  | 2077733  | 95.740   | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 13.28 | 75   | 162856   | 103.006  | ug/l   | 99       |
| 82) 4-Chlorotoluene            | 13.75 | 91   | 2145678  | 100.535  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.99 | 119  | 2165833  | 97.019   | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene     | 14.04 | 105  | 2077733  | 95.740   | ug/l   | 98       |
| 85) sec-Butylbenzene           | 14.17 | 105  | 2655642  | 97.670   | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 14.30 | 119  | 2101962  | 93.954   | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 14.26 | 146  | 1173490  | 102.981  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 14.34 | 146  | 1165530  | 99.920   | ug/l   | 100      |
| 89) n-Butylbenzene             | 14.60 | 91   | 2036515  | 96.821   | ug/l   | 99       |
| 90) Hexachloroethane           | 14.81 | 117  | 615349   | 93.610   | ug/l   | 88       |
| 91) 1,2-Dichlorobenzene        | 14.61 | 146  | 866518   | 91.977   | ug/l   | 95       |
| 92) 1,2-Dibromo-3-Chloropropan | 15.19 | 75   | 119088   | 103.382  | ug/l   | 84       |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD012319\  
Data File : VD060788.D  
Acq On : 23 Jan 2019 18:03  
Operator : VA/AP  
Sample : VSTDICC100  
Misc : 5.00g/5ml/MSVOA D/SOIL  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDICC100

Manual Integrations  
APPROVED

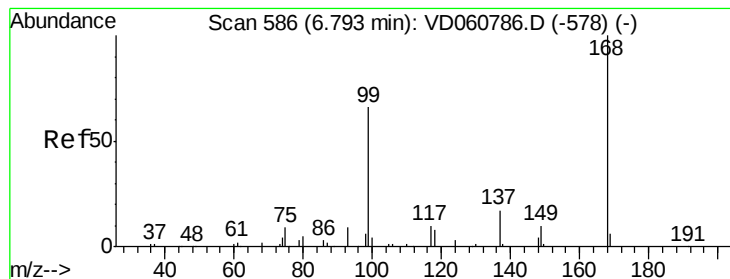
MMDadoda  
1/24/2019 12:50:08 PM

Quant Time: Jan 24 06:05:11 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D012319S.M  
Quant Title : SW846 8260  
QLast Update : Thu Jan 24 05:41:01 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|----------------------------|-------|------|----------|---------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.75 | 180  | 895263   | 104.498 | ug/l  | 95       |
| 94) Hexachlorobutadiene    | 15.85 | 225  | 651560   | 100.664 | ug/l  | 99       |
| 95) Naphthalene            | 15.93 | 128  | 1445998  | 110.742 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 16.07 | 180  | 772378   | 105.340 | ug/l  | 96       |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.80 min Scan# 586

Delta R.T. 0.01 min

Lab File: VD060788.D

Acq: 23 Jan 2019 18:03

Instrument :

MSVOA\_D

ClientSampleId :

VSTDIC100

Tot Ion:168 Resp: 657501

Ion Ratio Lower Upper

168 100

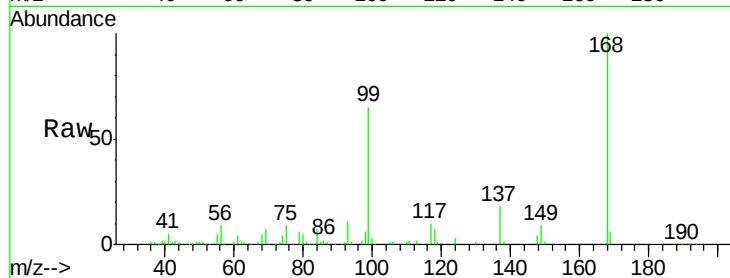
99 64.9 54.6 81.8

Manual Integrations

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1/24/2019 12:50:08 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

300000

250000

200000

150000

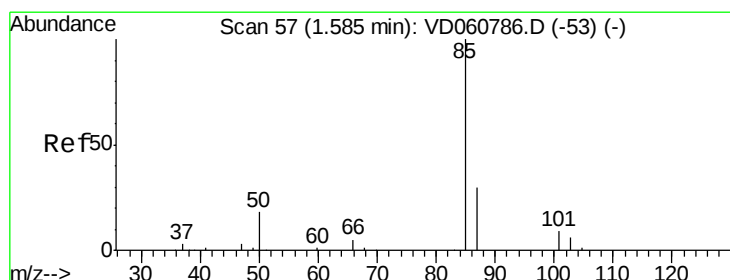
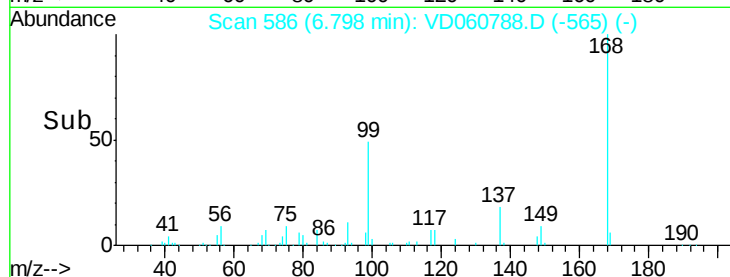
100000

50000

0

6.70 6.80 6.90 7.00

Time-->



#2

Dichlorodifluoromethane

Concen: 104.956 ug/l

RT: 1.59 min Scan# 57

Delta R.T. 0.01 min

Lab File: VD060788.D

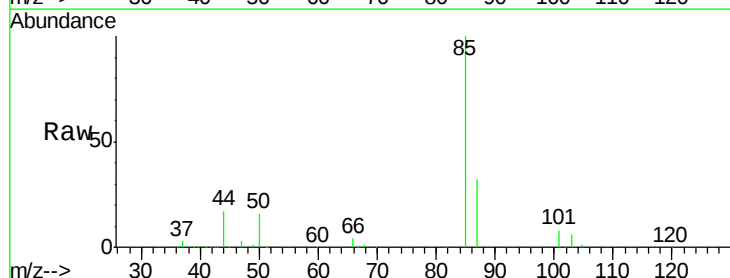
Acq: 23 Jan 2019 18:03

Tgt Ion: 85 Resp: 873579

Ion Ratio Lower Upper

85 100

87 31.6 14.9 44.7



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

250000

200000

150000

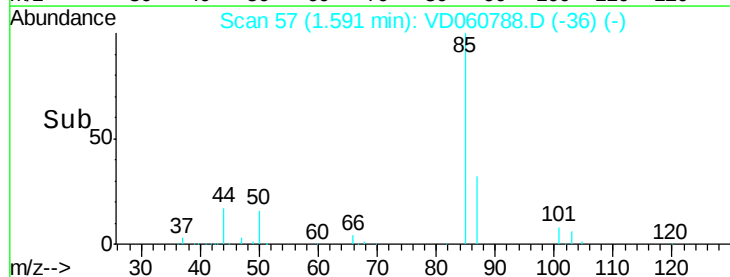
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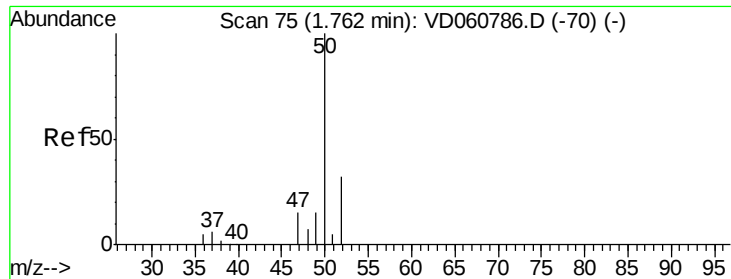
50000

0

1.50 1.60 1.70 1.80

Time-->





#3

Chloromethane

Concen: 113.462 ug/l

RT: 1.76 min Scan# 74

Delta R.T. -0.00 min

Lab File: VD060788.D

Acq: 23 Jan 2019 18:03

Instrument :

MSVOA\_D

ClientSampleId :

VSTDIC100

Tot Ion: 50 Resp: 494657

Ion Ratio Lower Upper

50 100

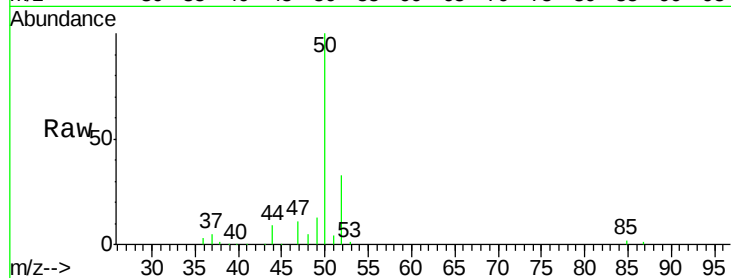
52 32.8 25.8 38.6

Manual Integrations

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1/24/2019 12:50:08 PM



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

1.76

150000

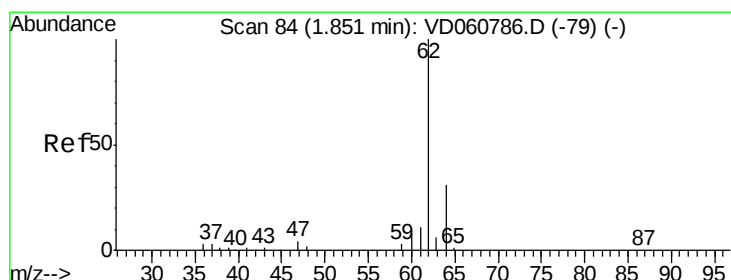
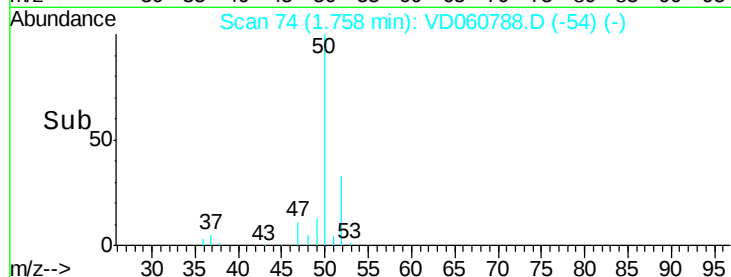
100000

50000

0

1.70 1.80 1.90 2.00

Time-->



#4

Vinyl Chloride

Concen: 105.459 ug/l

RT: 1.85 min Scan# 83

Delta R.T. -0.00 min

Lab File: VD060788.D

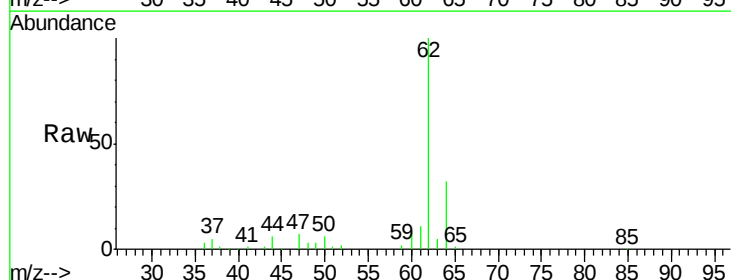
Acq: 23 Jan 2019 18:03

Tgt Ion: 62 Resp: 520626

Ion Ratio Lower Upper

62 100

64 32.2 24.6 37.0



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC

1.85

200000

150000

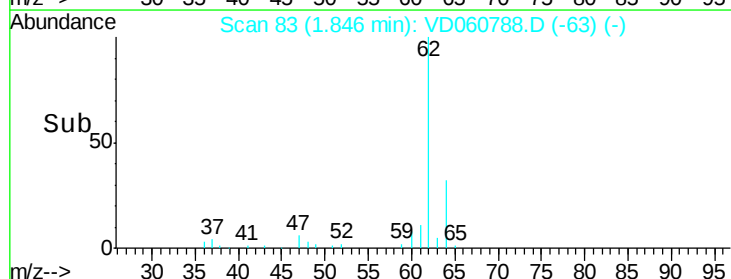
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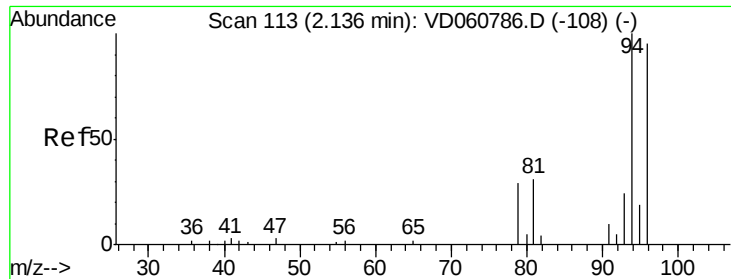
50000

0

1.70 1.80 1.90 2.00

Time-->





#5

Bromomethane

Concen: 88.101 ug/l

RT: 2.13 min Scan# 112

Delta R.T. -0.00 min

Lab File: VD060788.D

Acq: 23 Jan 2019 18:03

Instrument :

MSVOA\_D

ClientSampleId :

VSTDIC100

Tot Ion: 94 Resp: 127299

Ion Ratio Lower Upper

94 100

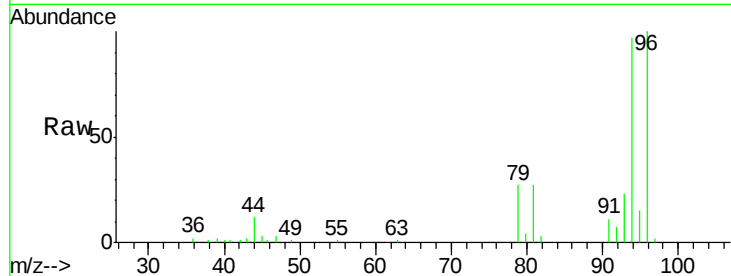
96 103.1 75.9 113.9

Manual Integrations

APPROVED

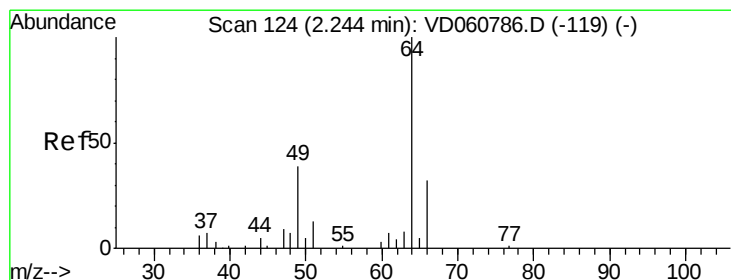
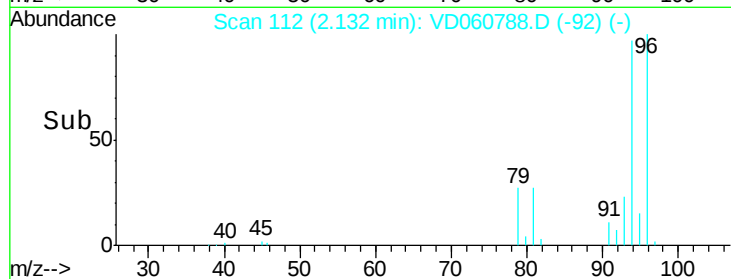
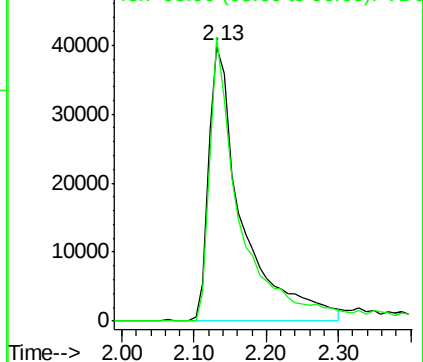
MMDadoda

1/24/2019 12:50:08 PM



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 76.176 ug/l

RT: 2.24 min Scan# 123

Delta R.T. -0.00 min

Lab File: VD060788.D

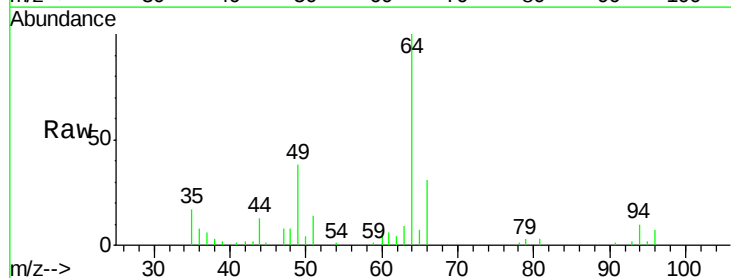
Acq: 23 Jan 2019 18:03

Tgt Ion: 64 Resp: 134788

Ion Ratio Lower Upper

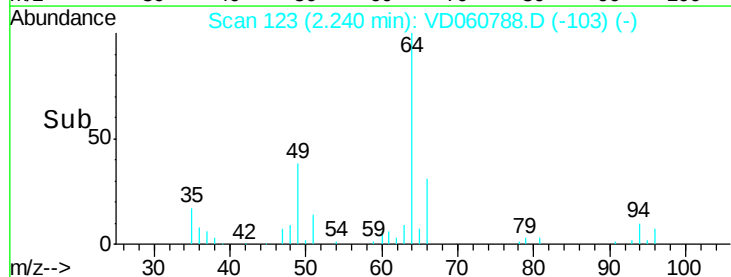
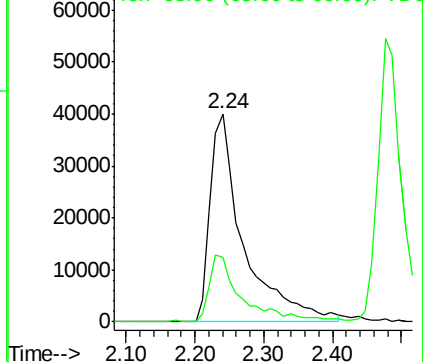
64 100

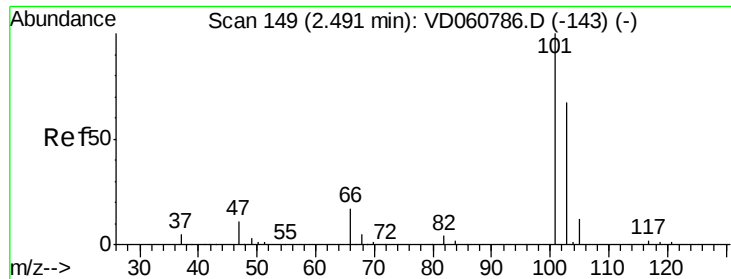
66 30.7 25.6 38.4



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC





#7

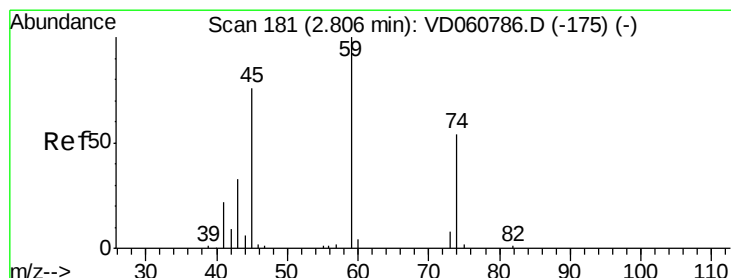
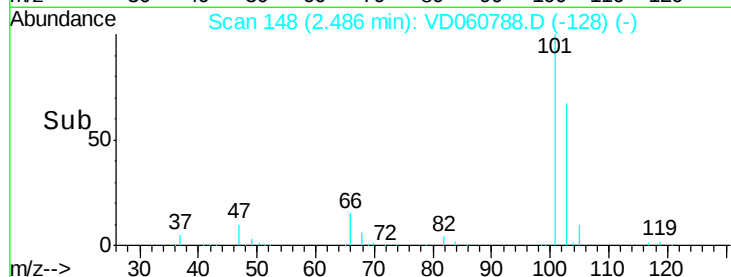
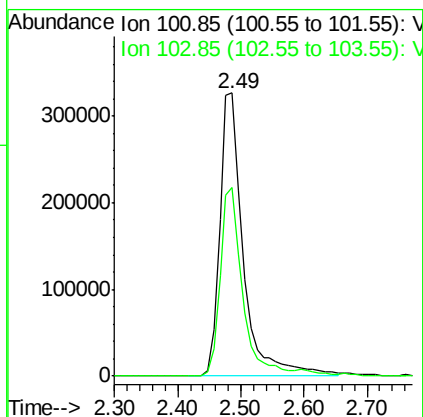
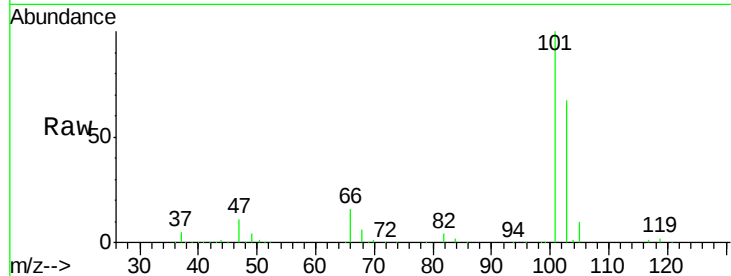
Trichlorofluoromethane  
Concen: 90.003 ug/l  
RT: 2.49 min Scan# 148  
Delta R.T. -0.00 min  
Lab File: VD060788.D  
Acq: 23 Jan 2019 18:03

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDIC100

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 101     | 100   | 853533 |       |       |
| 103     | 66.8  | 53.6   | 80.4  |       |

Manual Integrations  
APPROVED

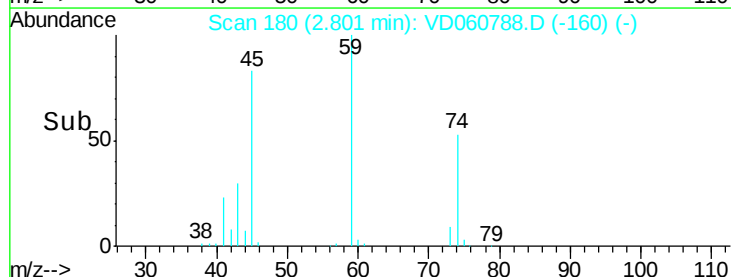
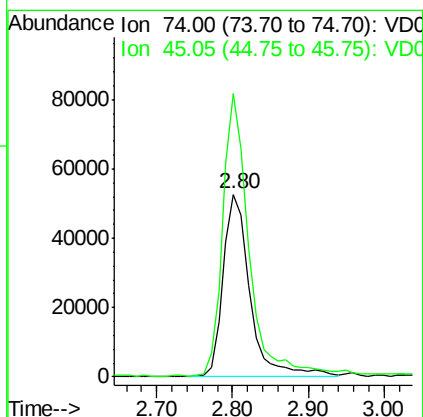
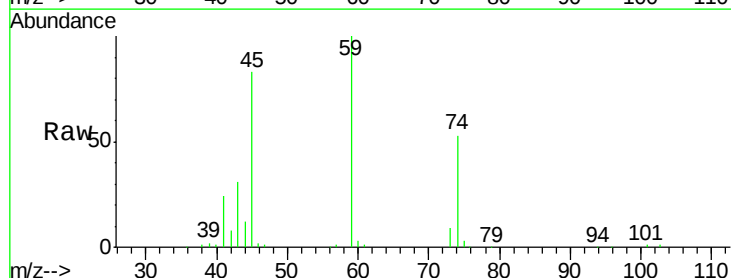
MMDadoda  
1/24/2019 12:50:08 PM

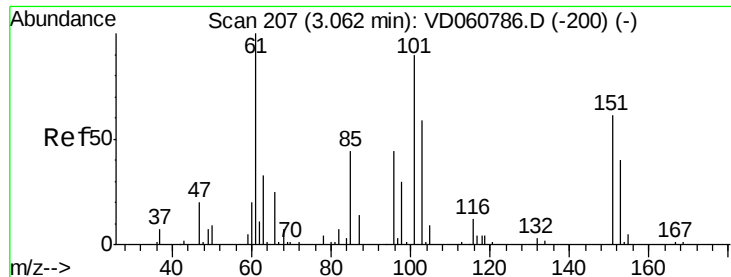


#8

Diethyl Ether  
Concen: 116.424 ug/l  
RT: 2.80 min Scan# 180  
Delta R.T. -0.00 min  
Lab File: VD060788.D  
Acq: 23 Jan 2019 18:03

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 74      | 100   | 130578 |       |       |
| 45      | 155.3 | 70.5   | 211.4 |       |





#9

1,1,2-Trichlorotrifluoroethane

Concen: 101.105 ug/l

RT: 3.06 min Scan# 206

Delta R.T. -0.00 min

Lab File: VD060788.D

Acq: 23 Jan 2019 18:03

Instrument :

MSVOA\_D

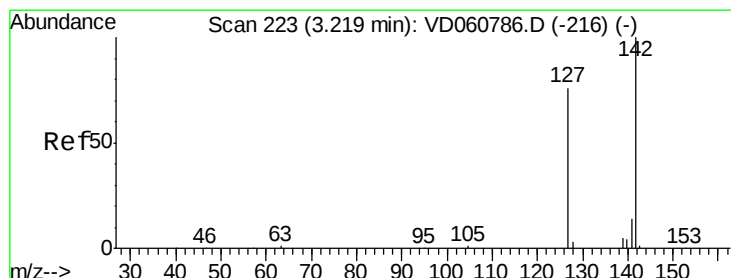
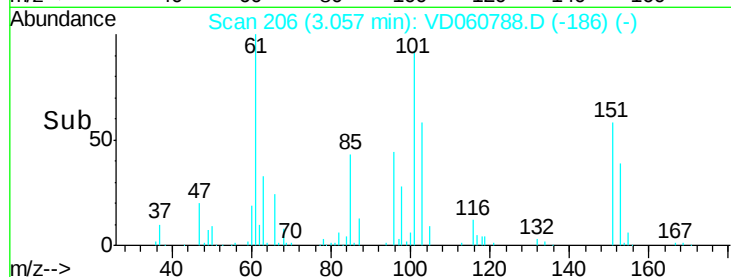
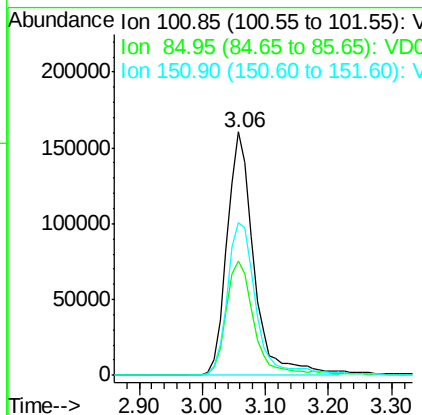
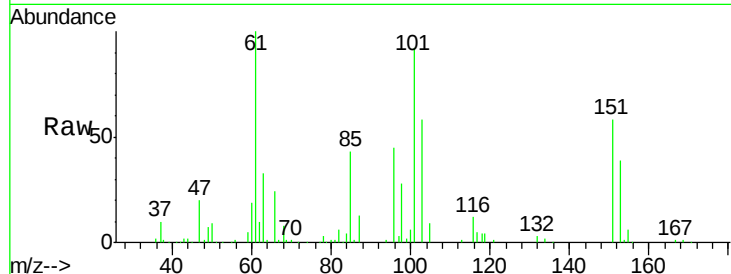
ClientSampleId :

VSTDIC100

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 101   | Resp: | 474734 |
| Ion Ratio | Lower | Upper |        |
| 101       | 100   |       |        |
| 85        | 47.0  | 39.0  | 58.4   |
| 151       | 62.9  | 54.5  | 81.7   |

Manual Integrations  
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1/24/2019 12:50:08 PM



#10

Methyl Iodide

Concen: 103.255 ug/l

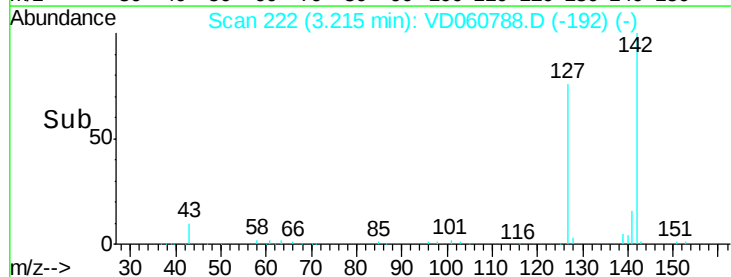
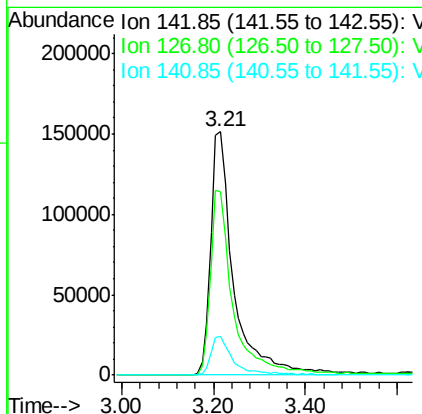
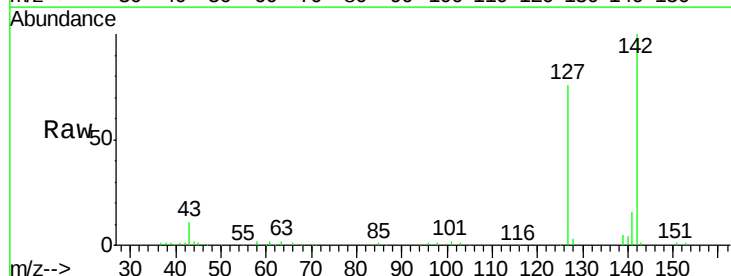
RT: 3.21 min Scan# 222

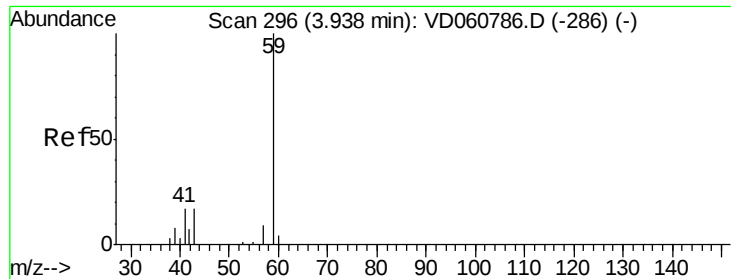
Delta R.T. -0.00 min

Lab File: VD060788.D

Acq: 23 Jan 2019 18:03

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 142   | Resp: | 521967 |
| Ion Ratio | Lower | Upper |        |
| 142       | 100   |       |        |
| 127       | 75.5  | 61.0  | 91.6   |
| 141       | 15.9  | 11.5  | 17.3   |





#11

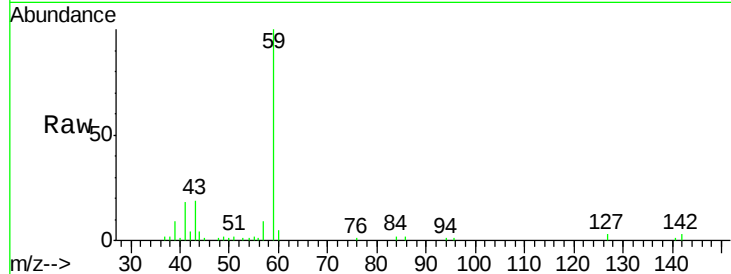
Tert butyl alcohol  
Concen: 497.574 ug/l  
RT: 3.93 min Scan# 295  
Delta R.T. -0.00 min  
Lab File: VD060788.D  
Acq: 23 Jan 2019 18:03

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDIC100

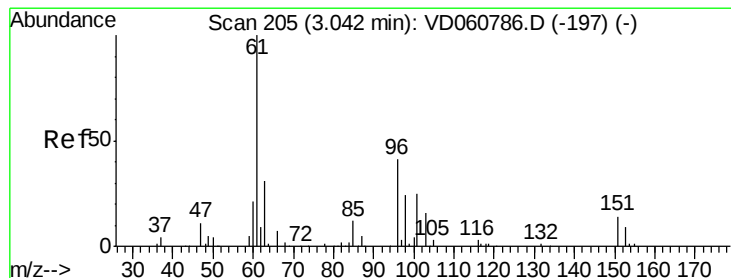
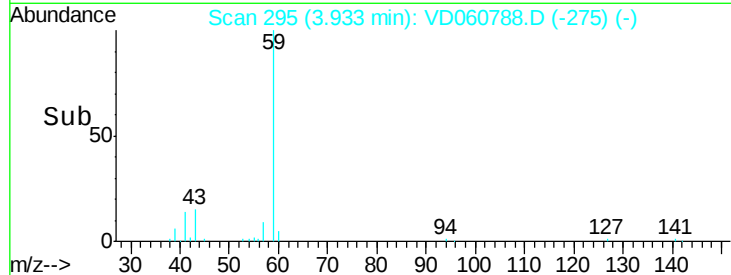
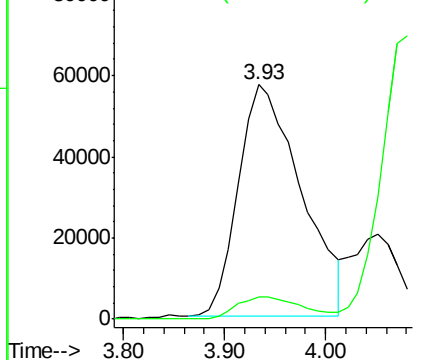
Tot Ion: 59 Resp: 248883  
Ion Ratio Lower Upper  
59 100  
57 9.4 7.0 10.6

Manual Integrations  
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1/24/2019 12:50:08 PM



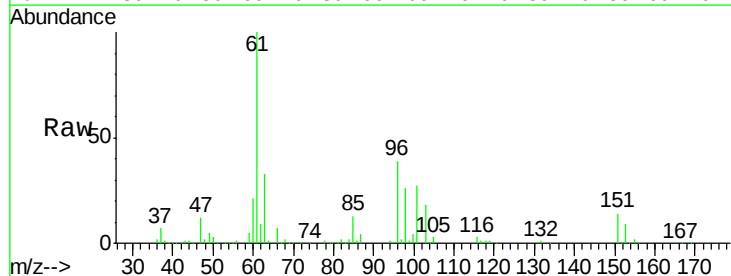
Abundance Ion 58.95 (58.65 to 59.65): VDC  
Ion 56.95 (56.65 to 57.65): VDC



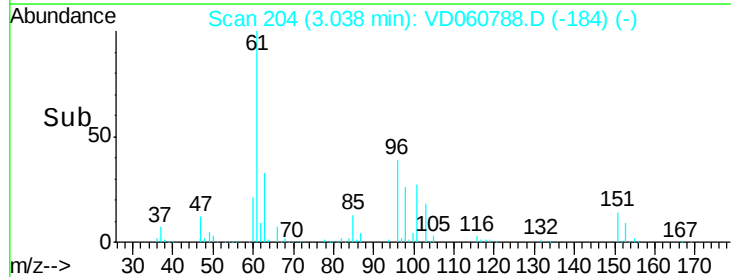
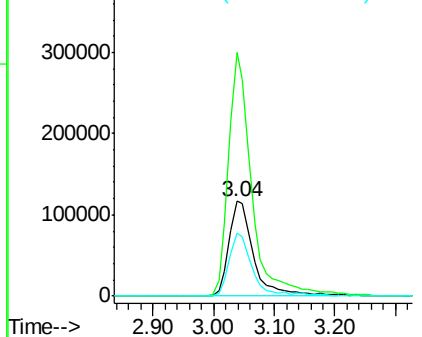
#12

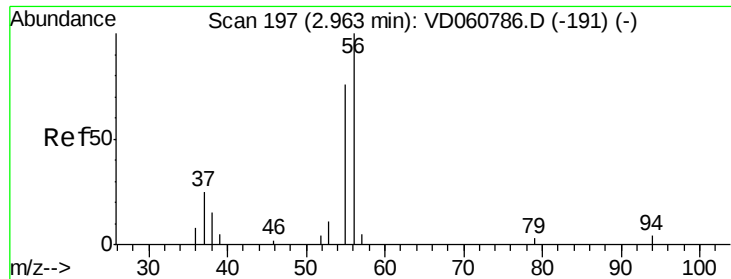
1,1-Dichloroethene  
Concen: 100.611 ug/l  
RT: 3.04 min Scan# 204  
Delta R.T. -0.00 min  
Lab File: VD060788.D  
Acq: 23 Jan 2019 18:03

Tgt Ion: 96 Resp: 329113  
Ion Ratio Lower Upper  
96 100  
61 256.1 196.9 295.3  
98 66.7 46.6 69.8



Abundance Ion 95.90 (95.60 to 96.60): VDC  
Ion 60.95 (60.65 to 61.65): VDC  
Ion 97.85 (97.55 to 98.55): VDC





#13

Acrolein

Concen: 451.727 ug/l

RT: 2.96 min Scan# 196

Delta R.T. -0.00 min

Lab File: VD060788.D

Acq: 23 Jan 2019 18:03

Instrument :

MSVOA\_D

ClientSampleId :

VSTDIC100

Tot Ion: 56 Resp: 84386

Ion Ratio Lower Upper

56 100

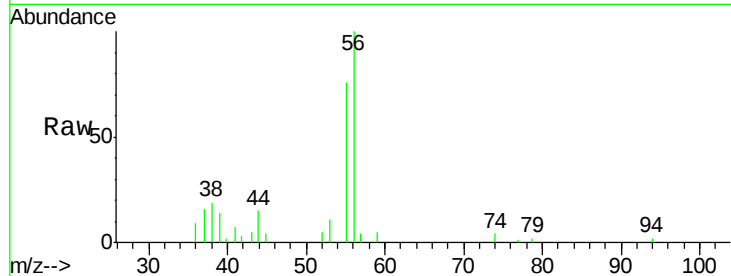
55 75.6 62.2 93.4

Manual Integrations

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Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC

2.96

30000

25000

20000

15000

10000

5000

0

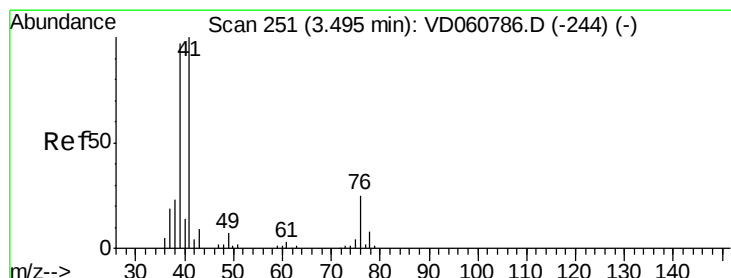
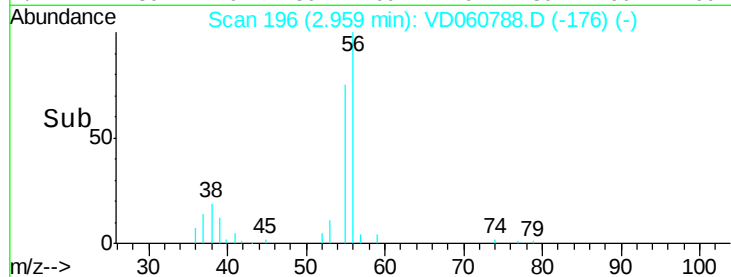
Time-->

2.80

2.90

3.00

3.10



#14

Allyl chloride

Concen: 106.476 ug/l

RT: 3.50 min Scan# 251

Delta R.T. 0.01 min

Lab File: VD060788.D

Acq: 23 Jan 2019 18:03

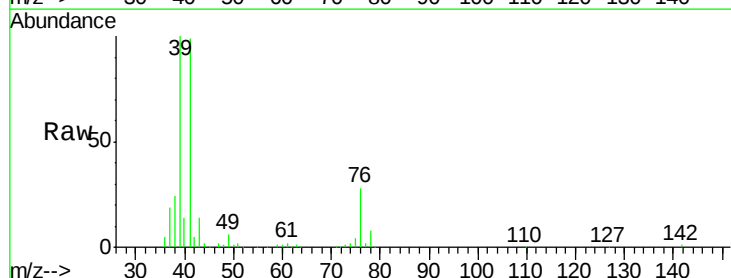
Tgt Ion: 41 Resp: 740843

Ion Ratio Lower Upper

41 100

39 101.0 77.7 116.5

76 27.9 21.8 32.8



Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC

3.50

300000

200000

100000

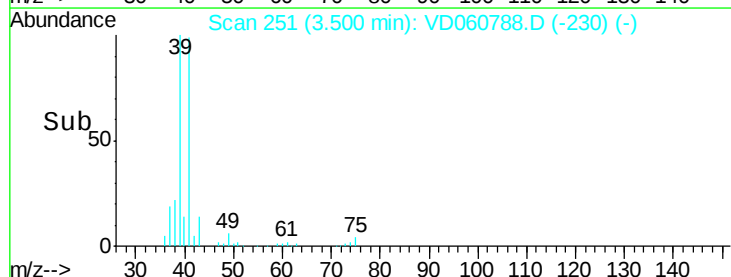
0

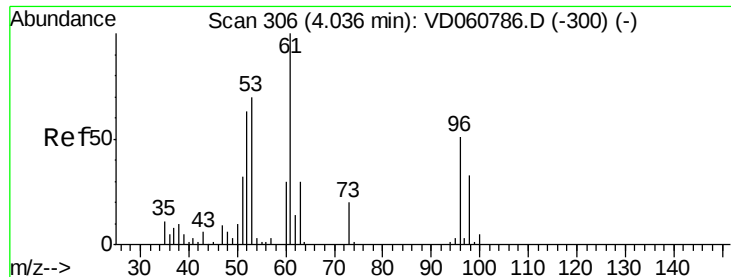
Time-->

3.40

3.50

3.60





#15

Acrylonitrile

Concen: 476.031 ug/l

RT: 4.04 min Scan# 306

Delta R.T. 0.01 min

Lab File: VD060788.D

Acq: 23 Jan 2019 18:03

Instrument :

MSVOA\_D

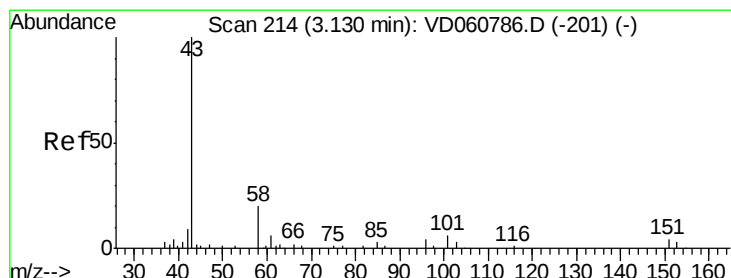
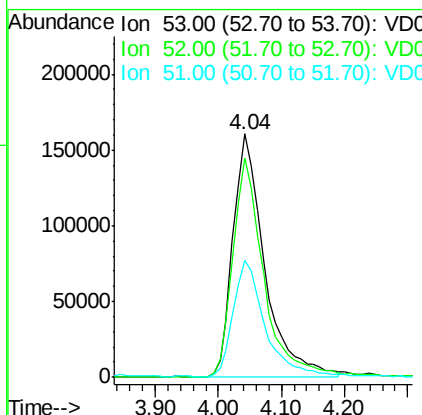
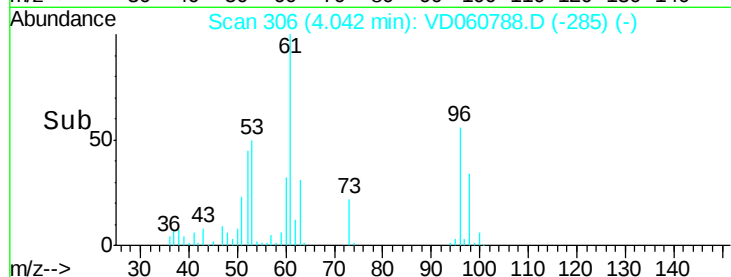
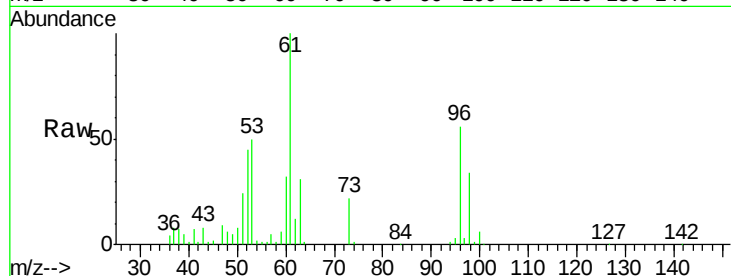
ClientSampleId :

VSTDIC100

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 53    | Resp: | 554032 |
| Ion      | Ratio | Lower | Upper  |
| 53       | 100   |       |        |
| 52       | 90.0  | 71.6  | 107.4  |
| 51       | 47.8  | 36.0  | 54.0   |

Manual Integrations  
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#16

Acetone

Concen: 527.999 ug/l

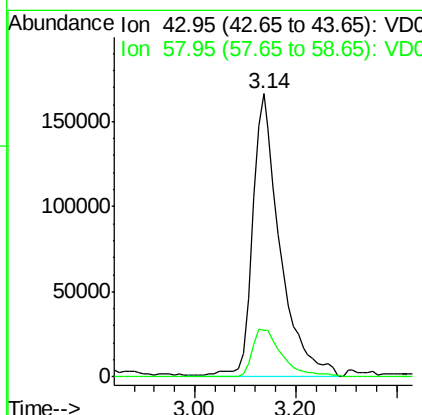
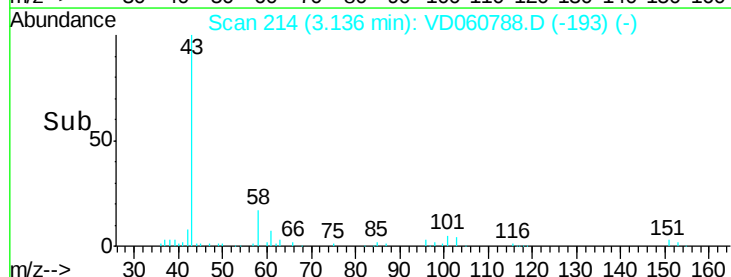
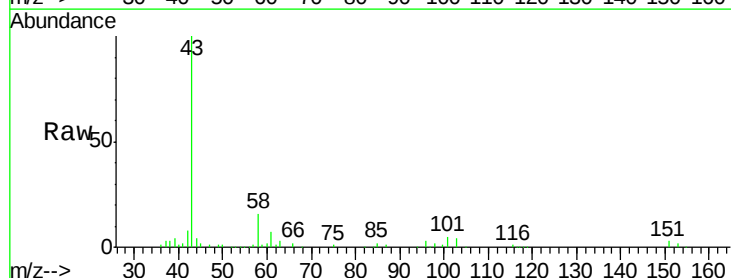
RT: 3.14 min Scan# 214

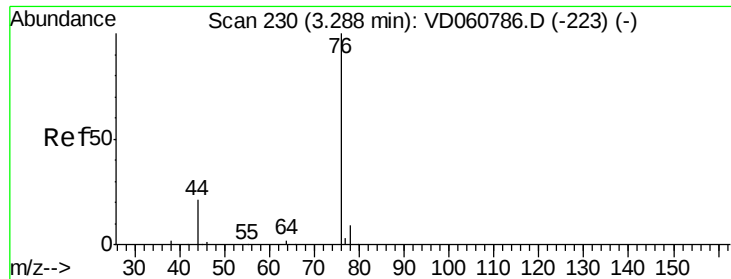
Delta R.T. 0.01 min

Lab File: VD060788.D

Acq: 23 Jan 2019 18:03

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 634319 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 58       | 16.4  | 16.0  | 24.0   |





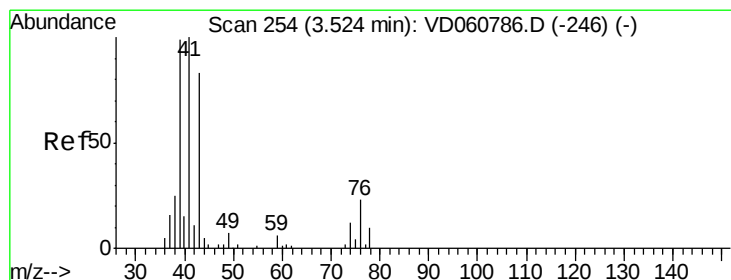
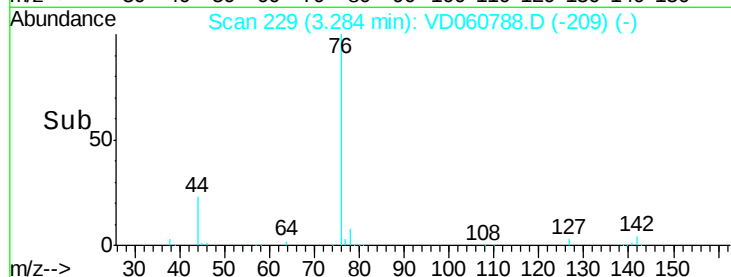
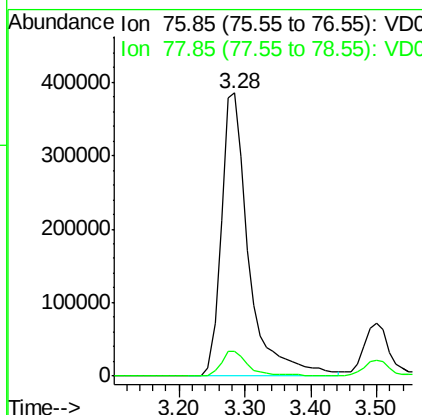
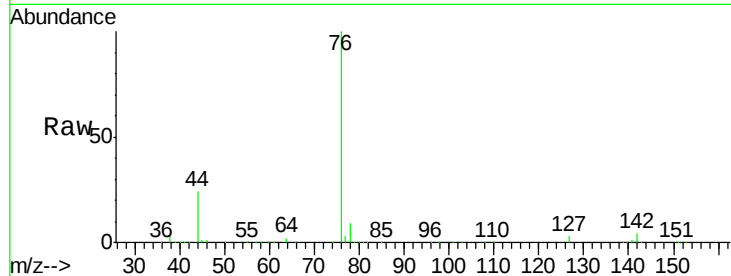
#17  
Carbon Disulfide  
Concen: 103.417 ug/l  
RT: 3.28 min Scan# 229  
Delta R.T. -0.00 min  
Lab File: VD060788.D  
Acq: 23 Jan 2019 18:03

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDIC100

Tot Ion: 76 Resp: 1116050  
Ion Ratio Lower Upper  
76 100  
78 8.9 7.4 11.0

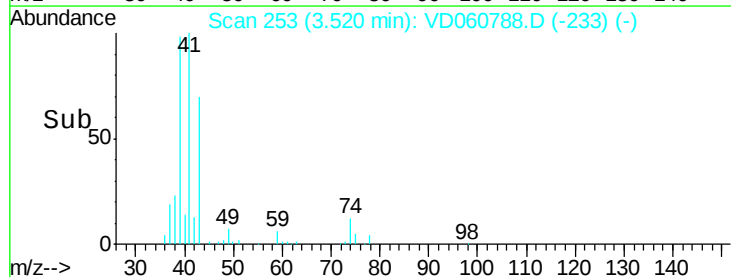
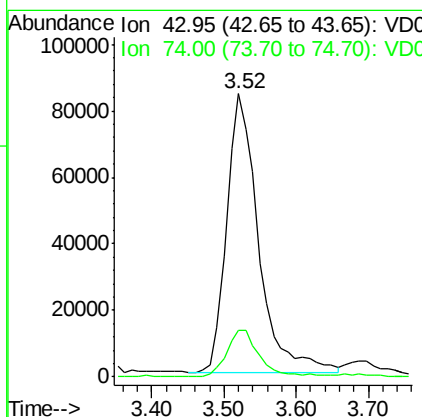
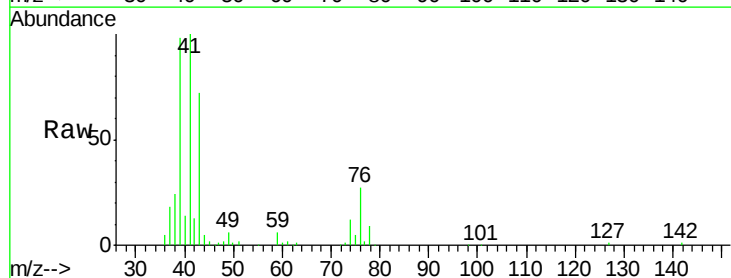
Manual Integrations  
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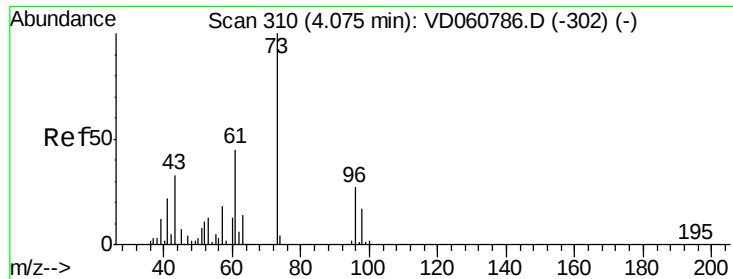
MMDadoda  
1/24/2019 12:50:08 PM



#18  
Methyl Acetate  
Concen: 101.854 ug/l  
RT: 3.52 min Scan# 253  
Delta R.T. -0.00 min  
Lab File: VD060788.D  
Acq: 23 Jan 2019 18:03

Tgt Ion: 43 Resp: 257523  
Ion Ratio Lower Upper  
43 100  
74 16.5 10.8 16.2#





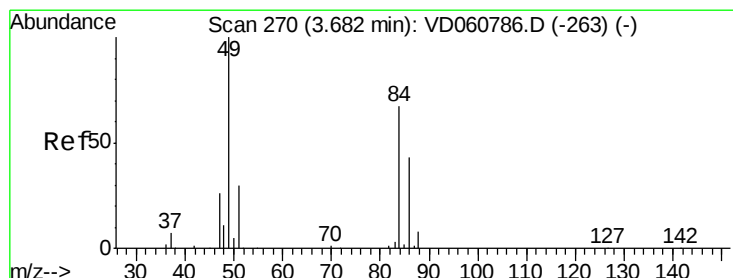
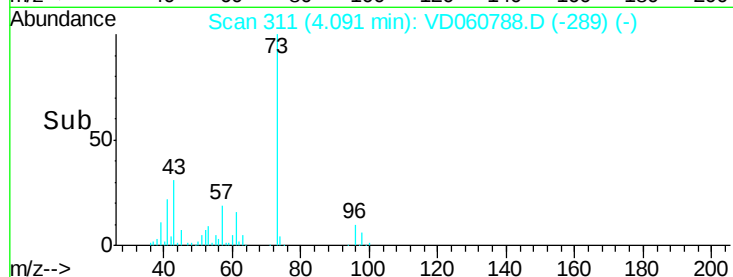
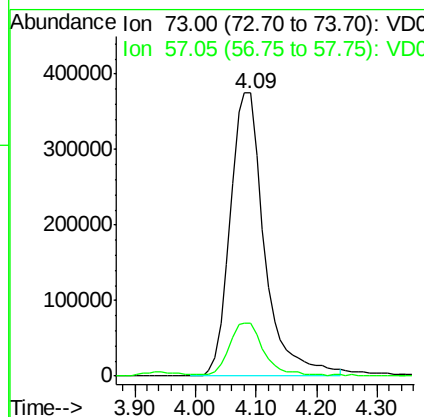
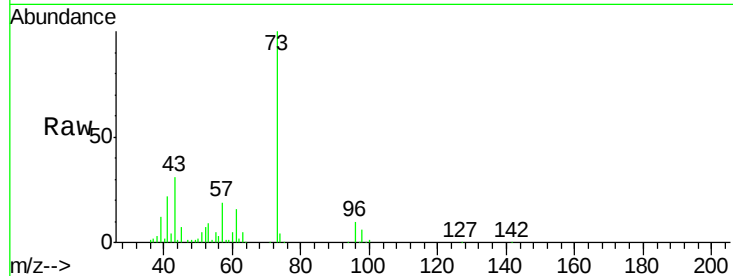
#19  
Methyl tert-butyl Ether  
Concen: 95.424 ug/l  
RT: 4.09 min Scan# 311  
Delta R.T. 0.02 min  
Lab File: VD060788.D  
Acq: 23 Jan 2019 18:03

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDIC100

Tot Ion: 73 Resp: 1478761  
Ion Ratio Lower Upper  
73 100  
57 18.8 14.7 22.1

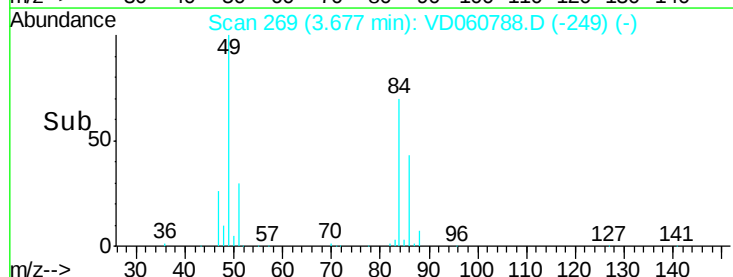
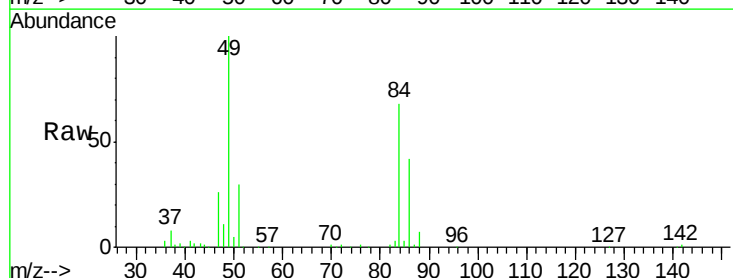
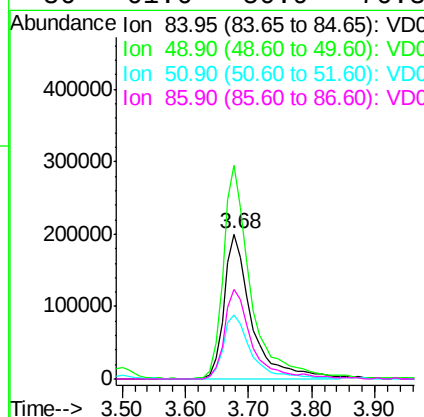
Manual Integrations  
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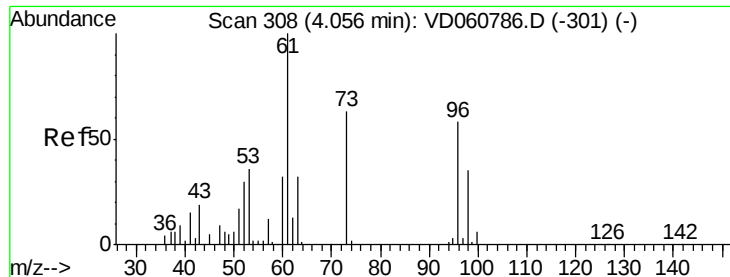
MMDadoda  
1/24/2019 12:50:08 PM



#20  
Methylene Chloride  
Concen: 95.549 ug/l  
RT: 3.68 min Scan# 269  
Delta R.T. -0.00 min  
Lab File: VD060788.D  
Acq: 23 Jan 2019 18:03

Tgt Ion: 84 Resp: 606622  
Ion Ratio Lower Upper  
84 100  
49 147.4 119.6 179.4  
51 44.3 36.2 54.4  
86 61.6 50.9 76.3





#21

trans-1,2-Dichloroethene

Concen: 98.874 ug/l

RT: 4.05 min Scan# 307

Delta R.T. -0.00 min

Lab File: VD060788.D

Acq: 23 Jan 2019 18:03

Instrument :

MSVOA\_D

ClientSampleID :

VSTDIC100

Tot Ion: 96 Resp: 616815

Ion Ratio Lower Upper

96 100

61 183.4 138.8 208.2

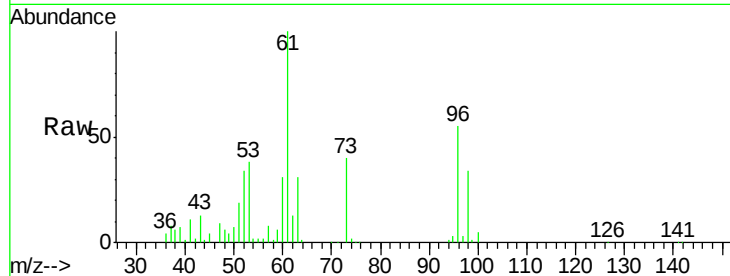
98 61.9 48.7 73.1

Manual Integrations

APPROVED

MMDadoda

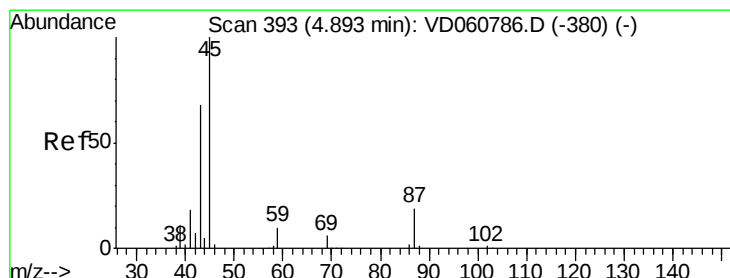
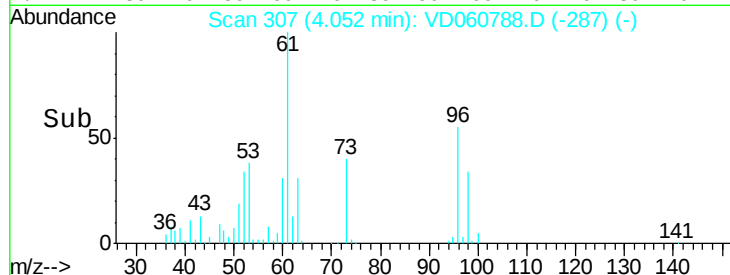
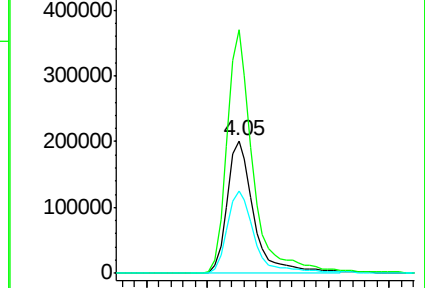
1/24/2019 12:50:08 PM



Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC



#22

Diisopropyl ether

Concen: 95.823 ug/l

RT: 4.90 min Scan# 393

Delta R.T. 0.01 min

Lab File: VD060788.D

Acq: 23 Jan 2019 18:03

Tgt Ion: 45 Resp: 2047229

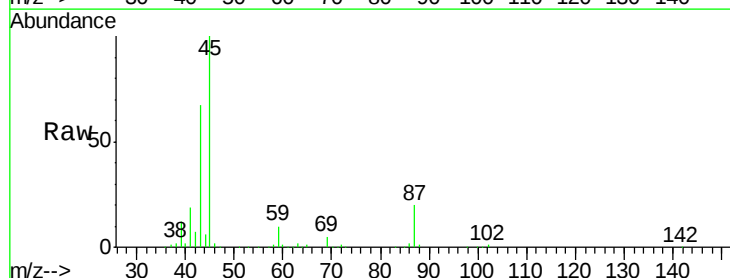
Ion Ratio Lower Upper

45 100

43 67.3 54.8 82.2

87 20.2 15.5 23.3

59 10.0 8.4 12.6

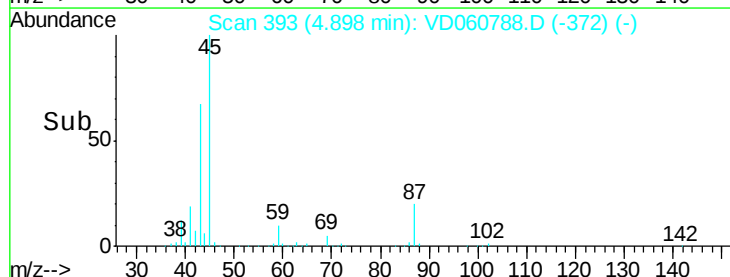
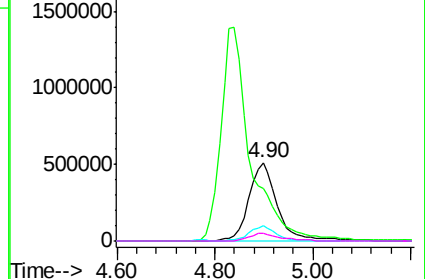


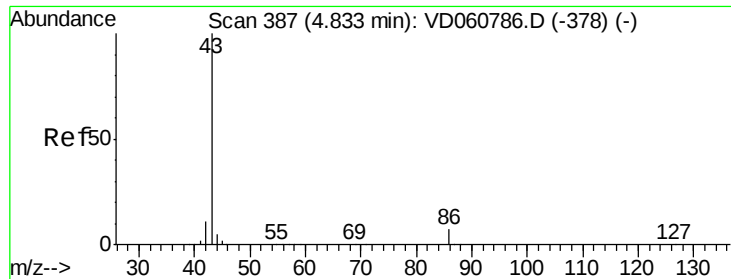
Abundance Ion 45.05 (44.75 to 45.75): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 87.00 (86.70 to 87.70): VDC

Ion 58.95 (58.65 to 59.65): VDC





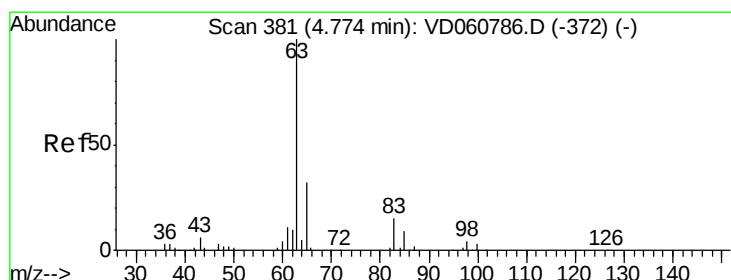
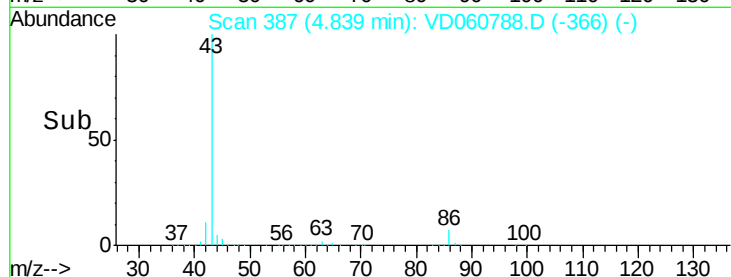
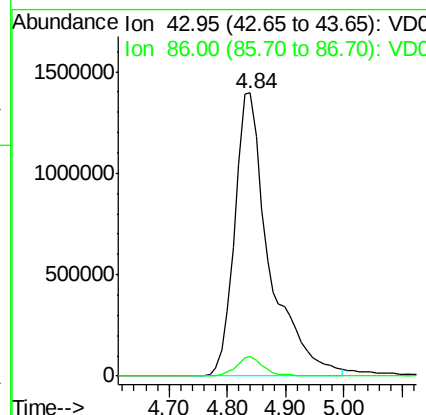
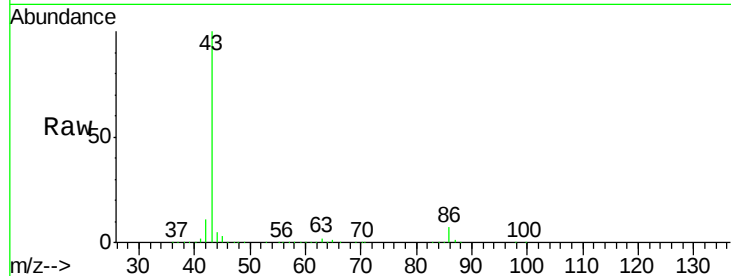
#23  
Vinyl Acetate  
Concen: 474.513 ug/l  
RT: 4.84 min Scan# 387  
Delta R.T. 0.01 min  
Lab File: VD060788.D  
Acq: 23 Jan 2019 18:03

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDIC100

Tot Ion: 43 Resp: 5801096  
Ion Ratio Lower Upper  
43 100  
86 6.8 5.3 7.9

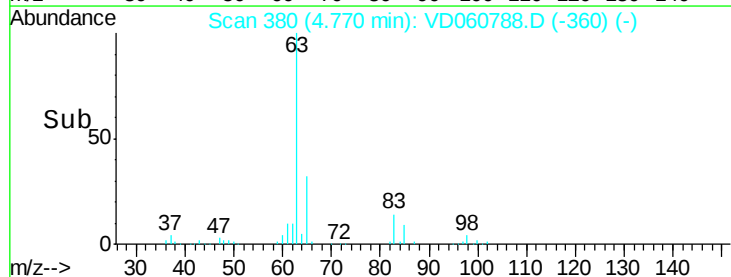
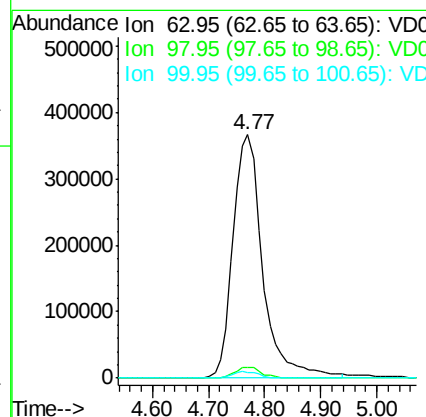
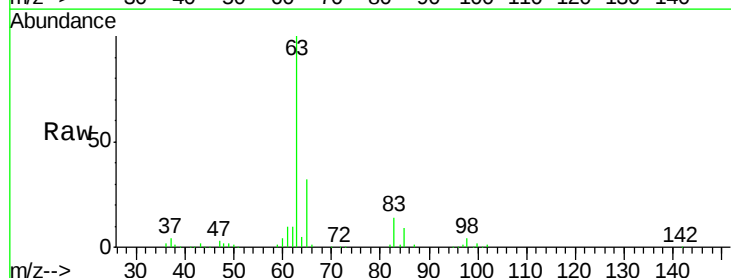
Manual Integrations  
APPROVED

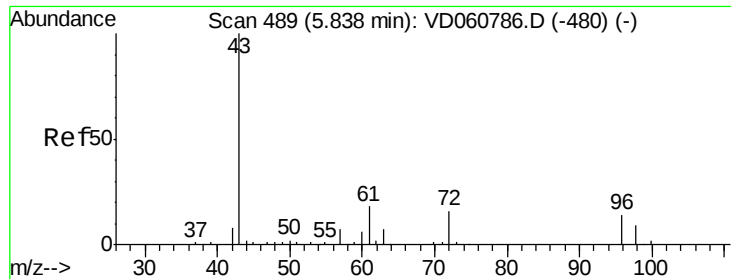
MMDadoda  
1/24/2019 12:50:08 PM



#24  
1,1-Dichloroethane  
Concen: 104.581 ug/l  
RT: 4.77 min Scan# 380  
Delta R.T. -0.00 min  
Lab File: VD060788.D  
Acq: 23 Jan 2019 18:03

Tgt Ion: 63 Resp: 1349663  
Ion Ratio Lower Upper  
63 100  
98 4.5 1.9 5.7  
100 2.4 1.5 4.4





#25

2-Butanone

Concen: 492.385 ug/l

RT: 5.84 min Scan# 489

Delta R.T. 0.01 min

Lab File: VD060788.D

Acq: 23 Jan 2019 18:03

Instrument :

MSVOA\_D

ClientSampleId :

VSTDIC100

Tot Ion: 43 Resp: 927768

Ion Ratio Lower Upper

43 100

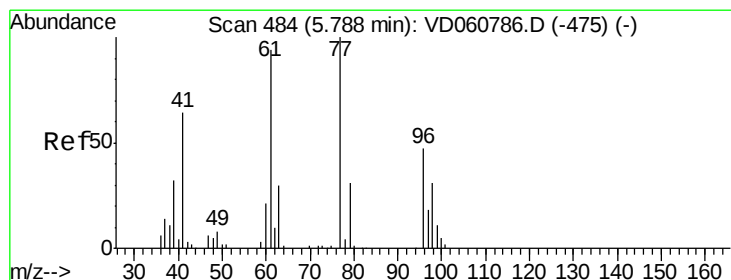
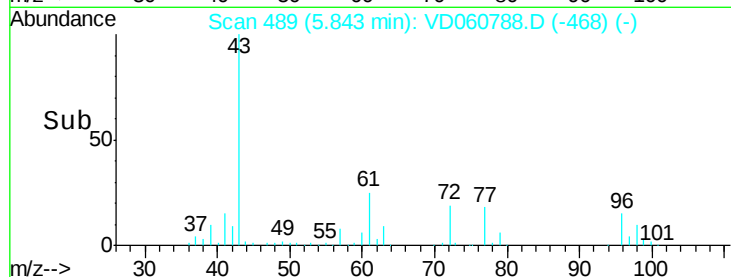
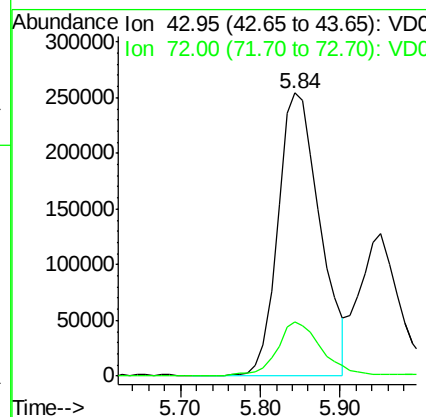
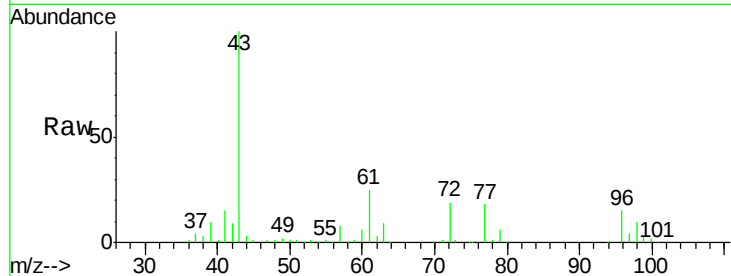
72 19.2 13.1 19.7

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 99.302 ug/l

RT: 5.79 min Scan# 484

Delta R.T. 0.01 min

Lab File: VD060788.D

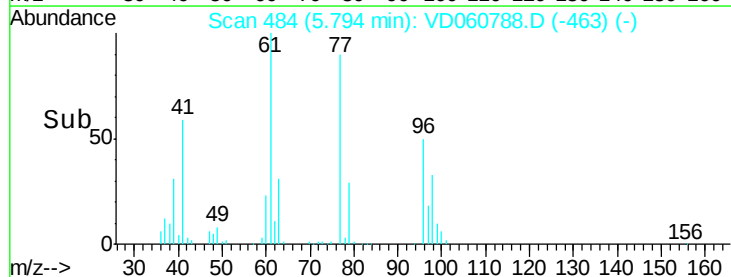
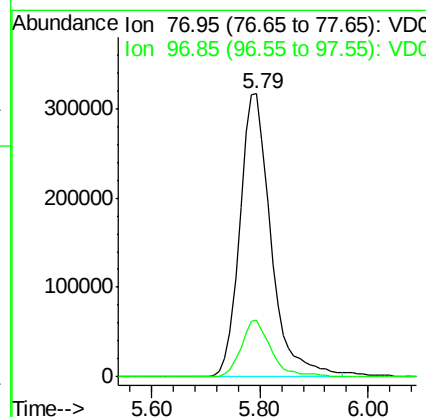
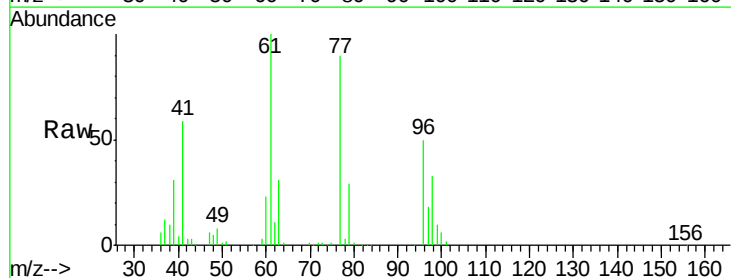
Acq: 23 Jan 2019 18:03

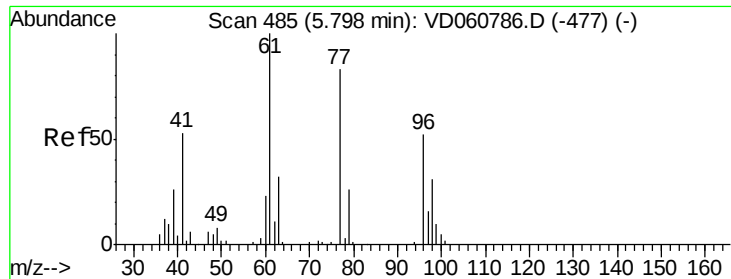
Tgt Ion: 77 Resp: 1269908

Ion Ratio Lower Upper

77 100

97 20.1 9.0 27.1





#27

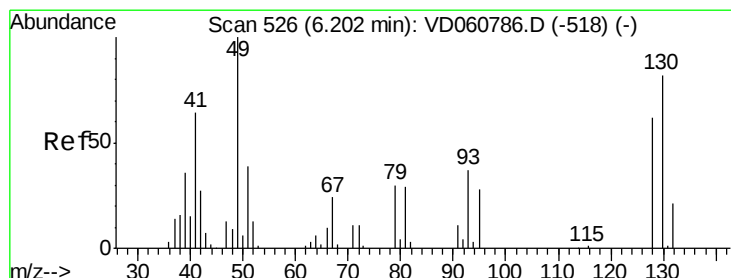
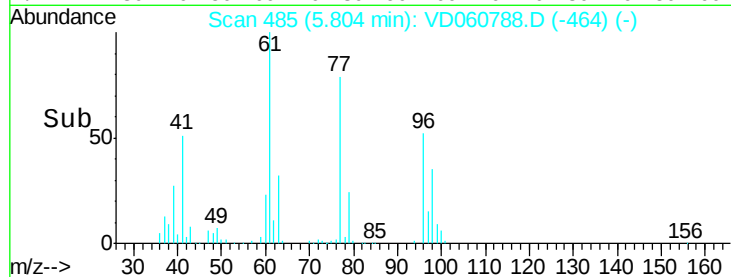
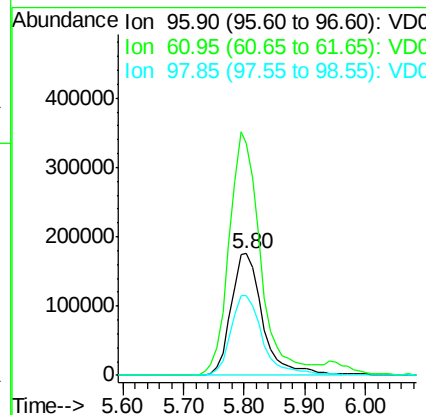
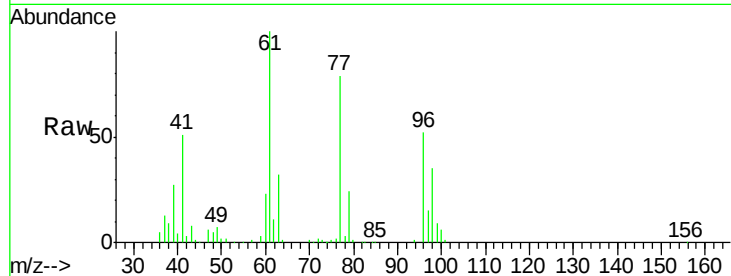
cis-1,2-Dichloroethene  
Concen: 99.184 ug/l  
RT: 5.80 min Scan# 485  
Delta R.T. 0.01 min  
Lab File: VD060788.D  
Acq: 23 Jan 2019 18:03

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDIC100

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 96      | 100   | 639389 |       |       |
| 61      | 191.5 | 0.0    | 385.2 |       |
| 98      | 66.2  | 0.0    | 120.6 |       |

Manual Integrations  
APPROVED

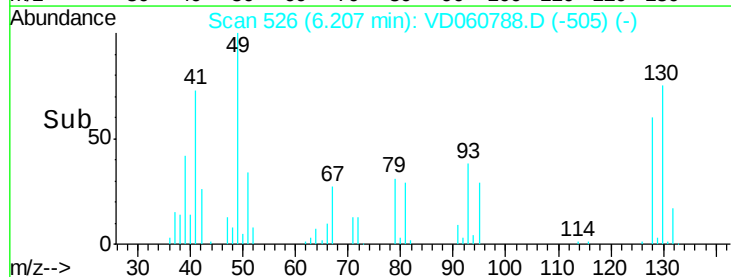
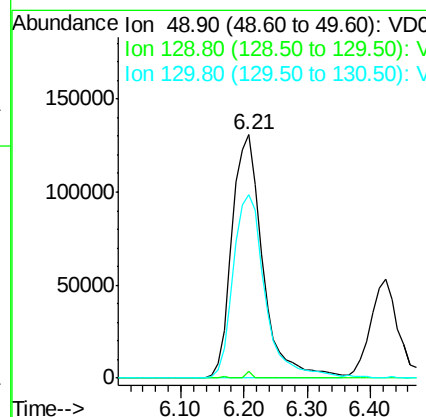
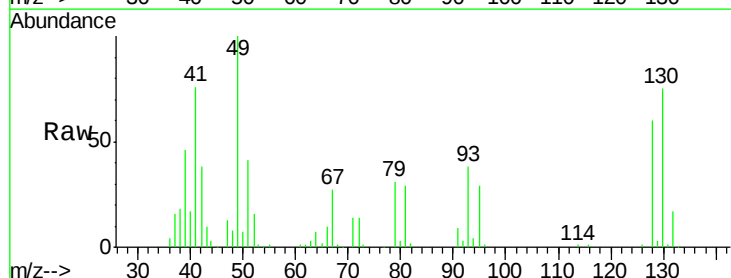
MMDadoda  
1/24/2019 12:50:08 PM

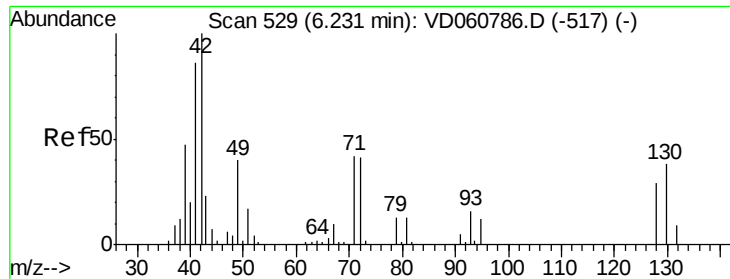


#28

Bromochloromethane  
Concen: 84.274 ug/l  
RT: 6.21 min Scan# 526  
Delta R.T. 0.01 min  
Lab File: VD060788.D  
Acq: 23 Jan 2019 18:03

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 49      | 100   | 441381 |       |       |
| 129     | 2.6   | 0.0    | 0.0#  |       |
| 130     | 75.1  | 65.4   | 98.2  |       |





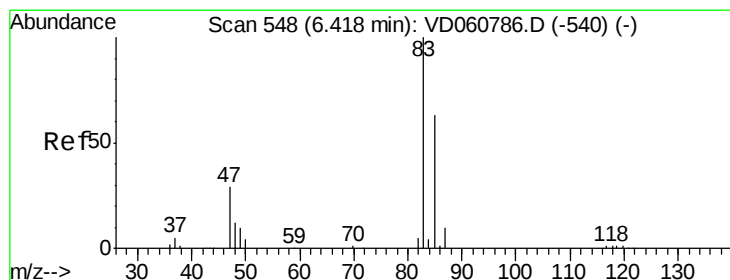
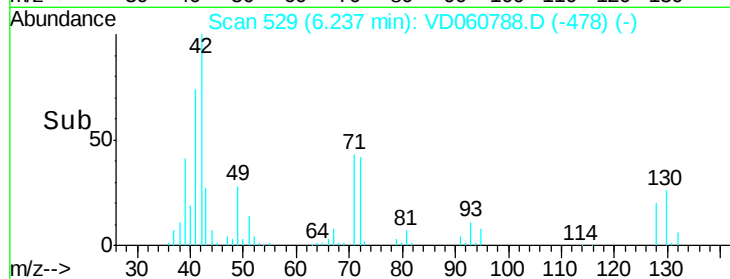
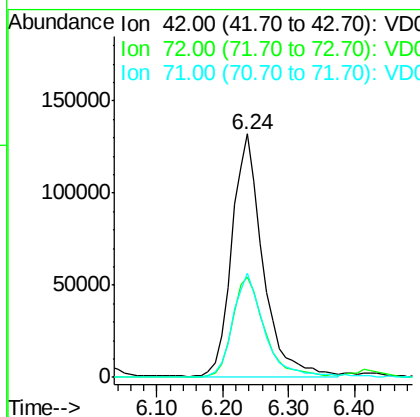
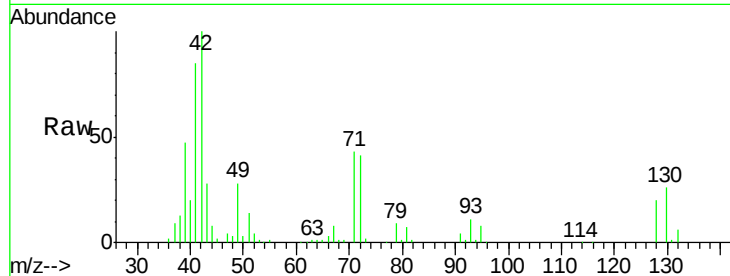
#29  
Tetrahydrofuran  
Concen: 476.782 ug/l  
RT: 6.24 min Scan# 529  
Delta R.T. 0.01 min  
Lab File: VD060788.D  
Acq: 23 Jan 2019 18:03

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDIC100

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 42.9  | 33.6  | 50.4  |
| 71      | 43.8  | 34.6  | 51.8  |

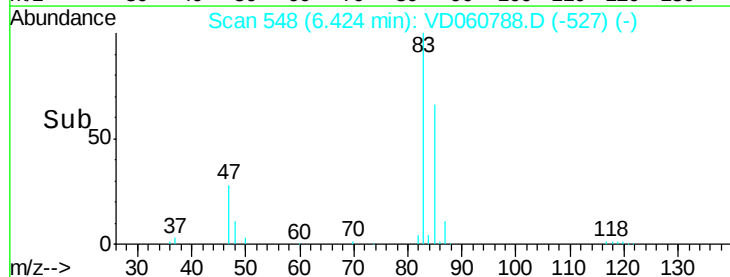
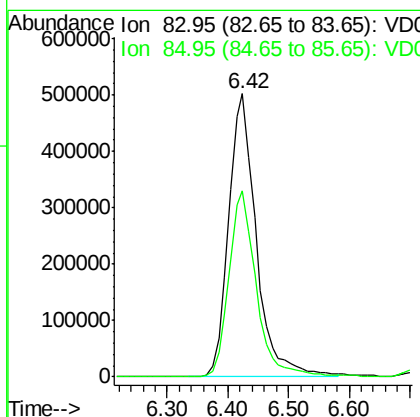
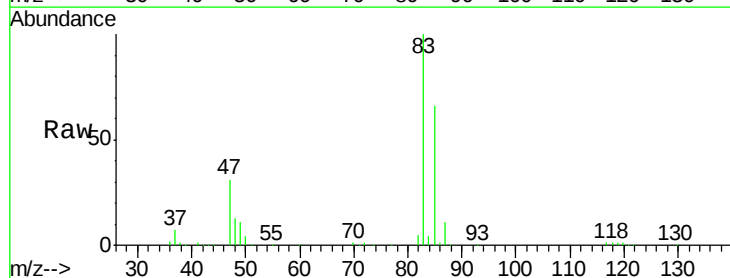
Manual Integrations  
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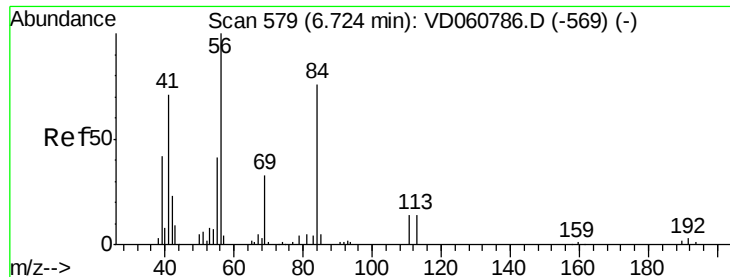
MMDadoda  
1/24/2019 12:50:08 PM



#30  
Chloroform  
Concen: 105.361 ug/l  
RT: 6.42 min Scan# 548  
Delta R.T. 0.01 min  
Lab File: VD060788.D  
Acq: 23 Jan 2019 18:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 65.8  | 50.3  | 75.5  |





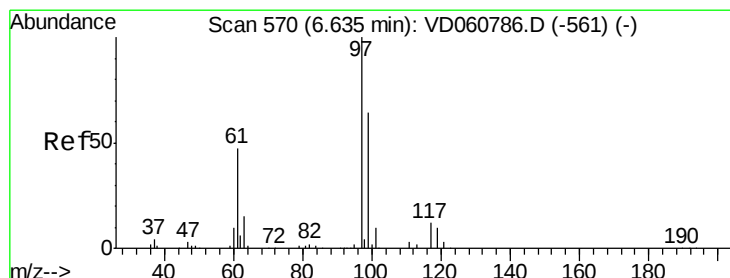
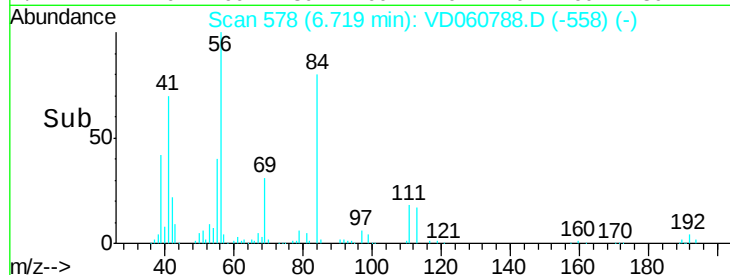
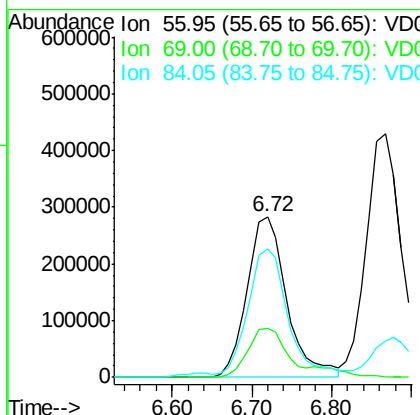
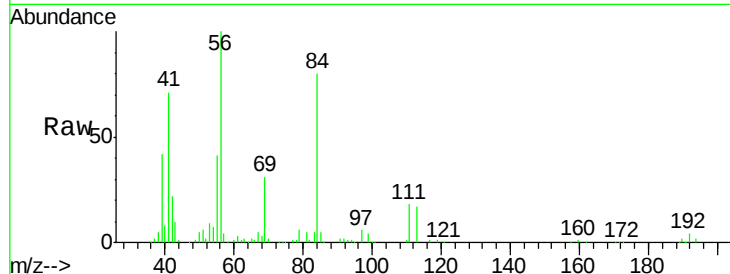
#31  
Cvclohexane  
Concen: 102.609 ug/l  
RT: 6.72 min Scan# 578  
Delta R.T. -0.00 min  
Lab File: VD060788.D  
Acq: 23 Jan 2019 18:03

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDIC100

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 56      | 100   |       |       |
| 69      | 30.8  | 26.2  | 39.2  |
| 84      | 79.8  | 63.0  | 94.6  |

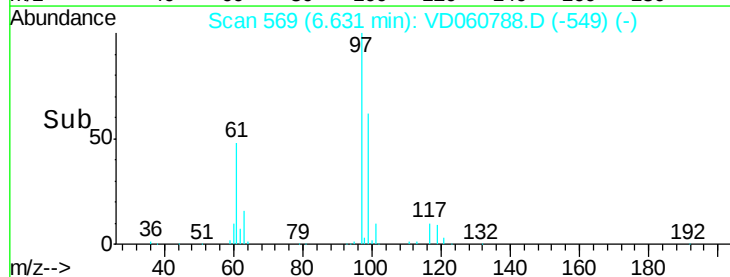
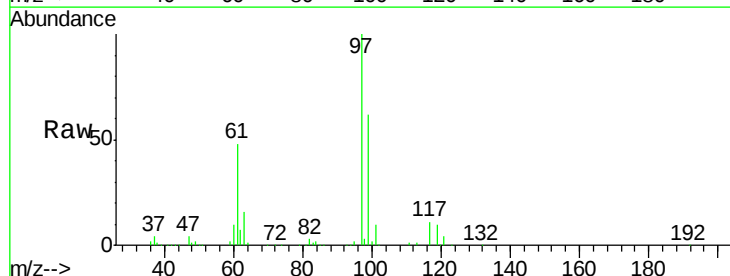
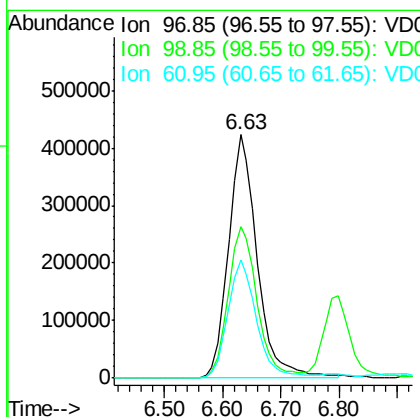
Manual Integrations  
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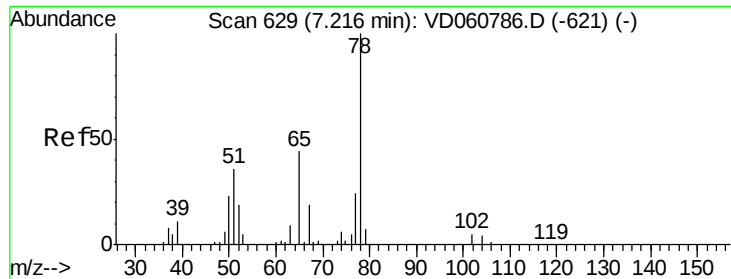
MMDadoda  
1/24/2019 12:50:08 PM



#32  
1,1,1-Trichloroethane  
Concen: 101.727 ug/l  
RT: 6.63 min Scan# 569  
Delta R.T. -0.00 min  
Lab File: VD060788.D  
Acq: 23 Jan 2019 18:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 99      | 62.0  | 50.8  | 76.2  |
| 61      | 48.3  | 37.7  | 56.5  |





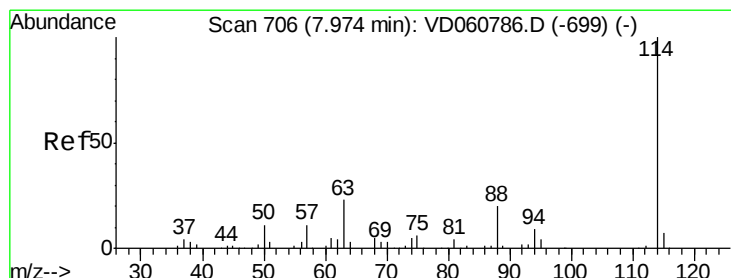
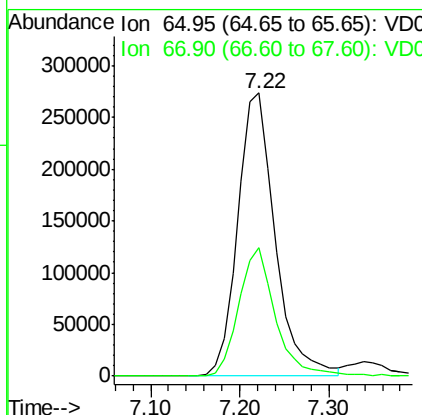
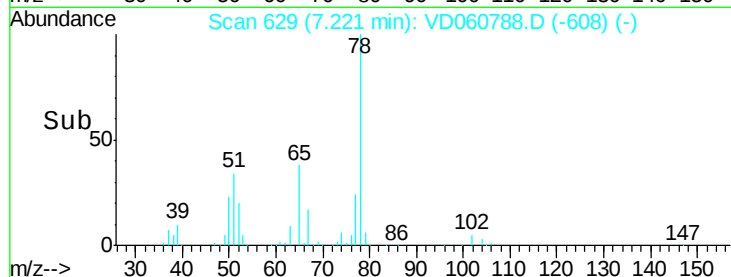
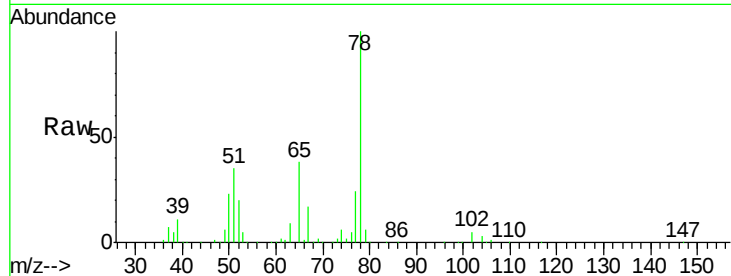
#33  
 1,2-Dichloroethane-d4  
 Concen: 101.727 ug/l  
 RT: 7.22 min Scan# 629  
 Delta R.T. 0.01 min  
 Lab File: VD060788.D  
 Acq: 23 Jan 2019 18:03

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDIC100

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 65      | 100   | 796864 |       |       |
| 67      | 45.5  | 0.0    | 86.0  |       |

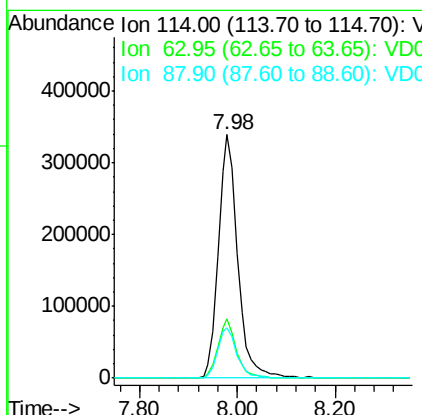
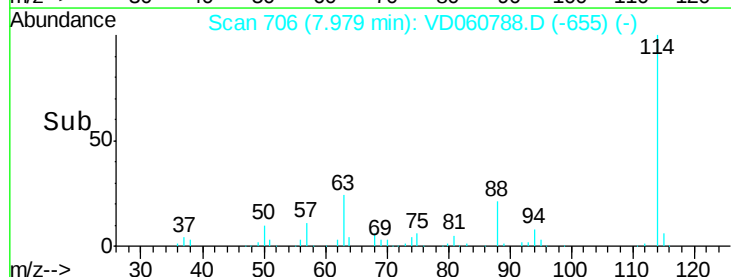
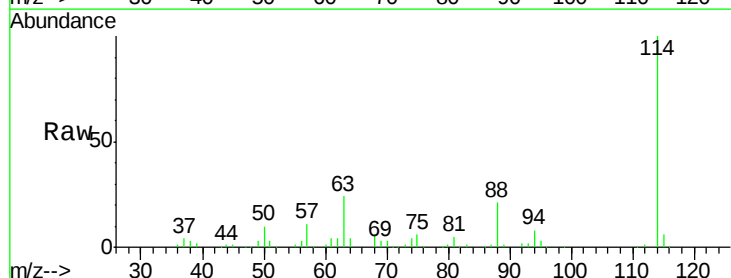
Manual Integrations  
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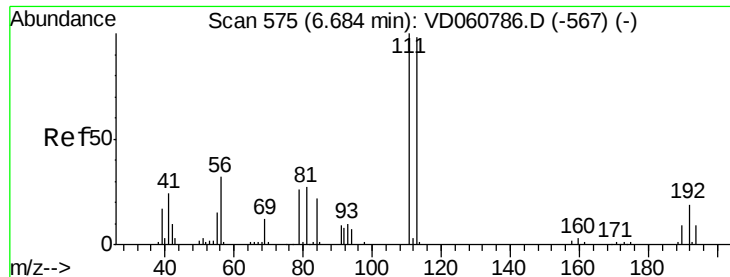
MMDadoda  
 1/24/2019 12:50:08 PM



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 7.98 min Scan# 706  
 Delta R.T. 0.01 min  
 Lab File: VD060788.D  
 Acq: 23 Jan 2019 18:03

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 114     | 100   | 933052 |       |       |
| 63      | 24.4  | 0.0    | 46.4  |       |
| 88      | 20.8  | 0.0    | 39.6  |       |





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.68 min Scan# 574

Delta R.T. -0.00 min

Lab File: VD060788.D

Acq: 23 Jan 2019 18:03

Instrument :

MSVOA\_D

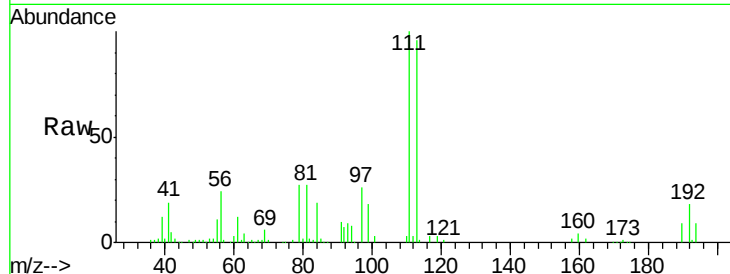
ClientSampleId :

VSTDIC100

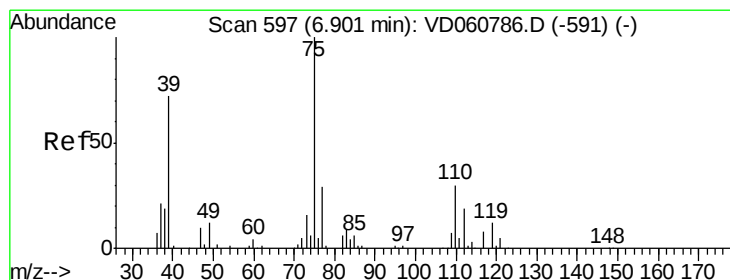
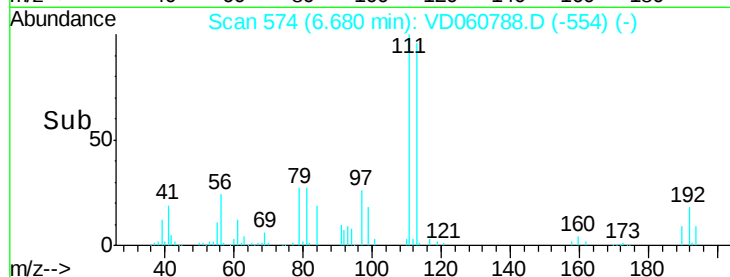
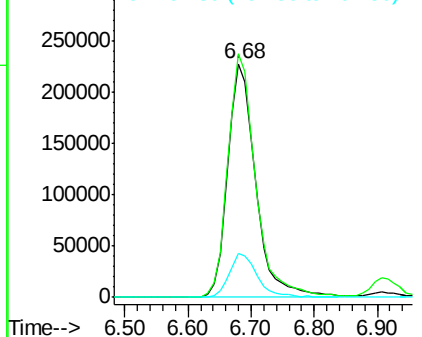
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 113   | Resp: | 698877 |
| Ion      | Ratio | Lower | Upper  |
| 113      | 100   |       |        |
| 111      | 104.3 | 81.4  | 122.0  |
| 192      | 18.8  | 15.3  | 22.9   |

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Abundance Ion 112.90 (112.60 to 113.60): V  
Ion 110.90 (110.60 to 111.60): V  
Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 97.950 ug/l

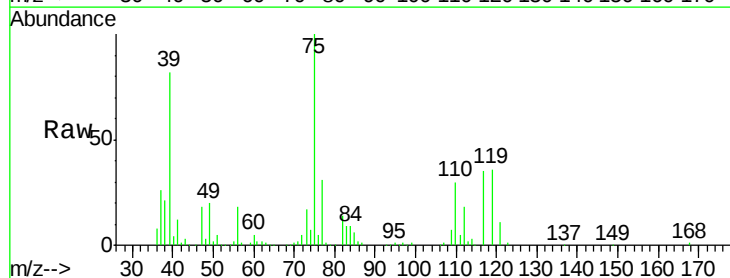
RT: 6.91 min Scan# 597

Delta R.T. 0.01 min

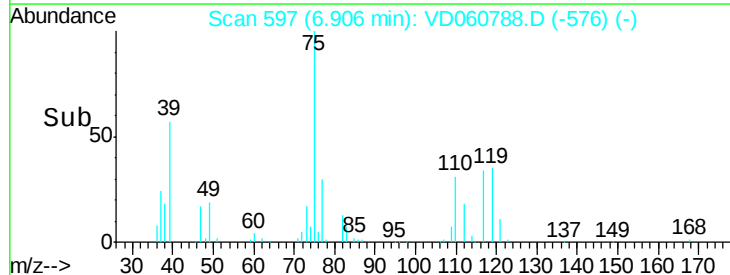
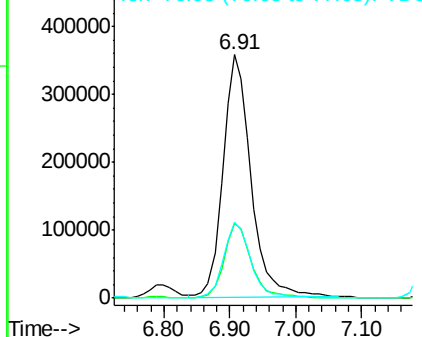
Lab File: VD060788.D

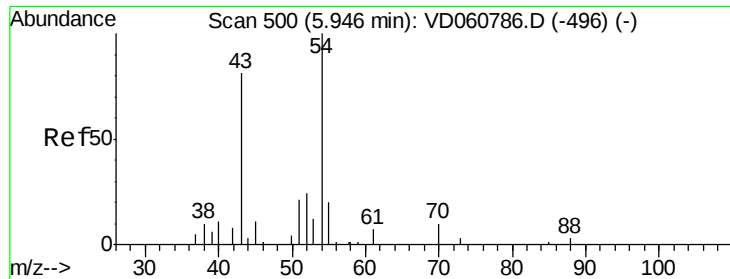
Acq: 23 Jan 2019 18:03

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 75    | Resp: | 1051584 |
| Ion      | Ratio | Lower | Upper   |
| 75       | 100   |       |         |
| 110      | 30.5  | 14.8  | 44.3    |
| 77       | 31.2  | 23.1  | 34.7    |



Abundance Ion 75.00 (74.70 to 75.70): VDC  
Ion 109.90 (109.60 to 110.60): V  
Ion 76.95 (76.65 to 77.65): VDC





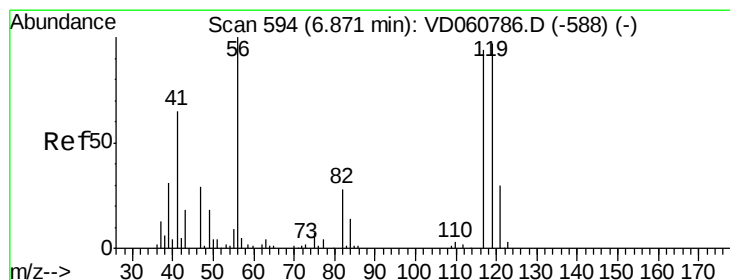
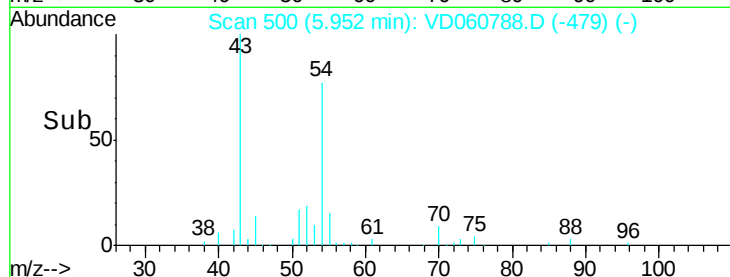
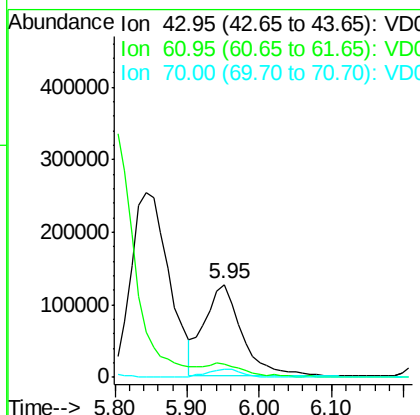
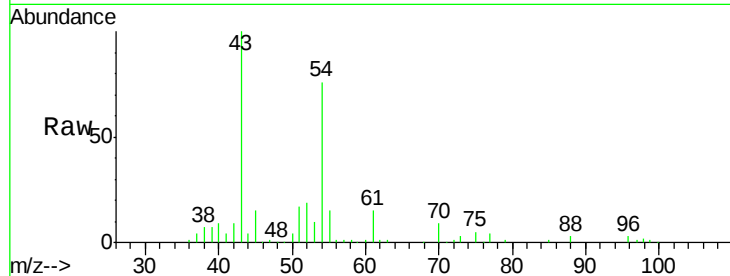
#37  
Ethyl Acetate  
Concen: 101.692 ug/l  
RT: 5.95 min Scan# 500  
Delta R.T. 0.01 min  
Lab File: VD060788.D  
Acq: 23 Jan 2019 18:03

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDIC100

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 14.8  | 12.2  | 18.4  |
| 70      | 9.2   | 6.8   | 10.2  |

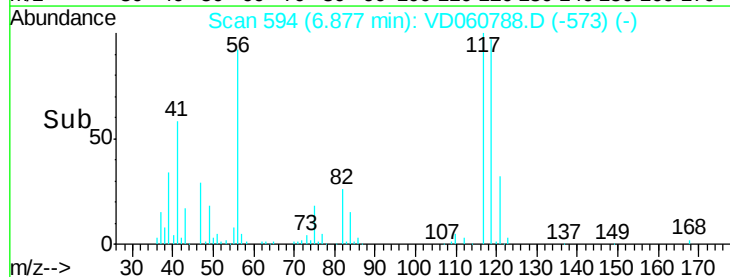
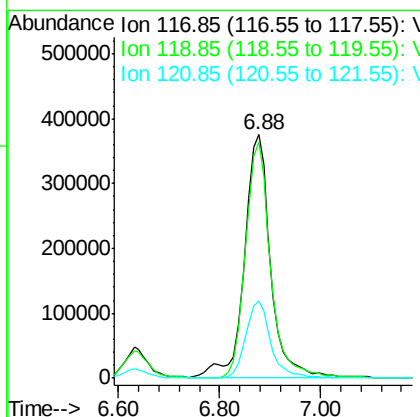
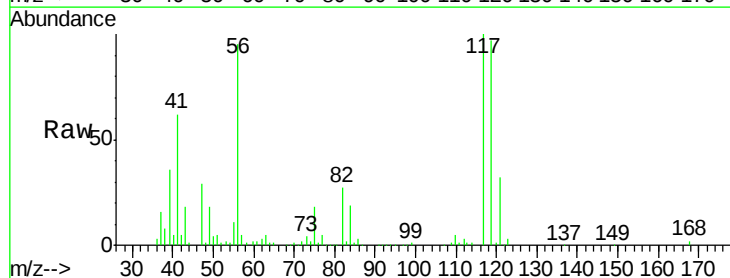
Manual Integrations  
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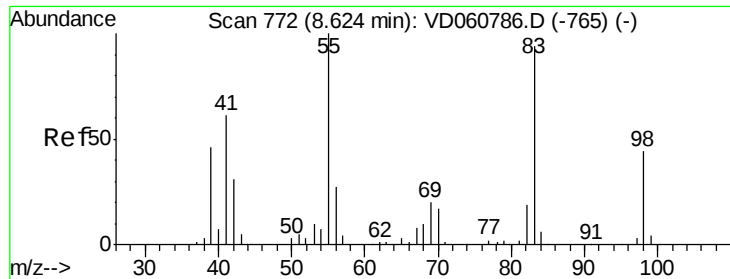
MMDadoda  
1/24/2019 12:50:08 PM



#38  
Carbon Tetrachloride  
Concen: 101.376 ug/l  
RT: 6.88 min Scan# 594  
Delta R.T. 0.01 min  
Lab File: VD060788.D  
Acq: 23 Jan 2019 18:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 119     | 97.1  | 77.5  | 116.3 |
| 121     | 31.9  | 24.2  | 36.2  |





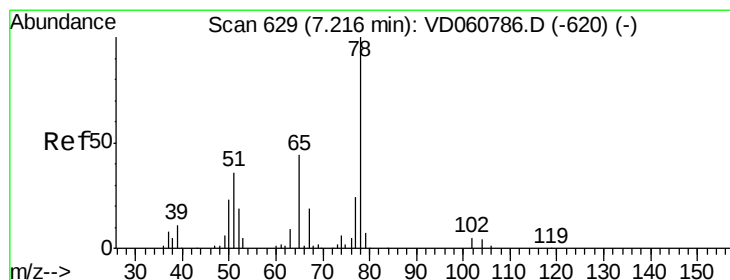
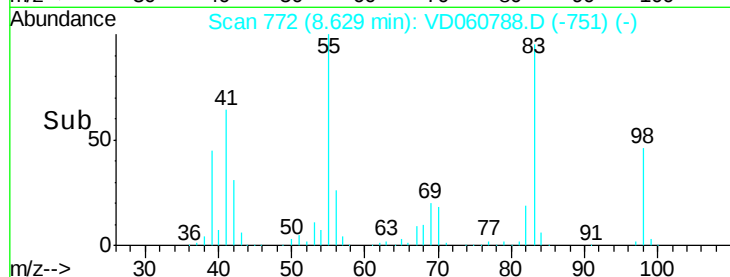
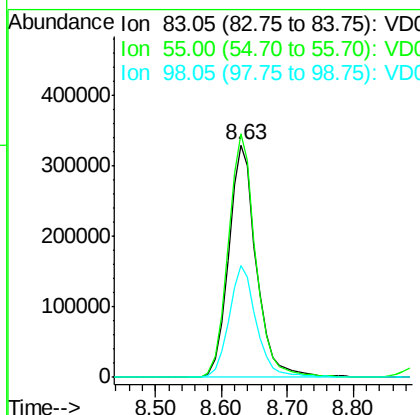
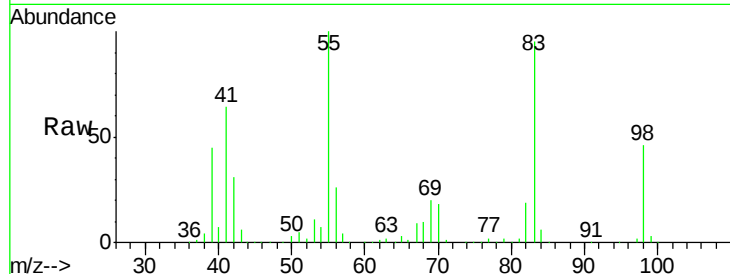
#39  
Methvlcvclohexane  
Concen: 100.648 ug/l  
RT: 8.63 min Scan# 772  
Delta R.T. 0.01 min  
Lab File: VD060788.D  
Acq: 23 Jan 2019 18:03

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDIC100

| Tot Ion   | 83    | Resp  | 963340 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 83        | 100   |       |        |
| 55        | 104.9 | 85.2  | 127.8  |
| 98        | 48.2  | 37.7  | 56.5   |

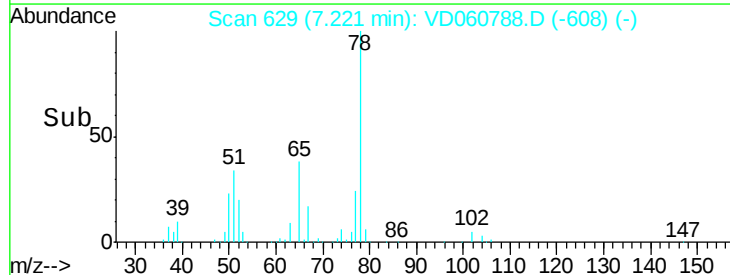
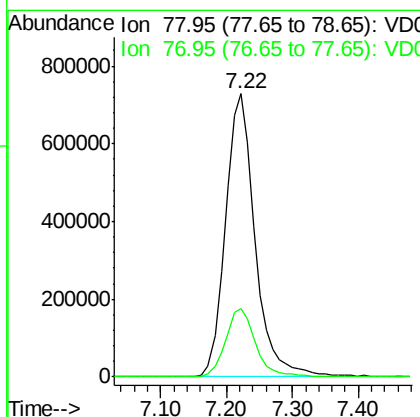
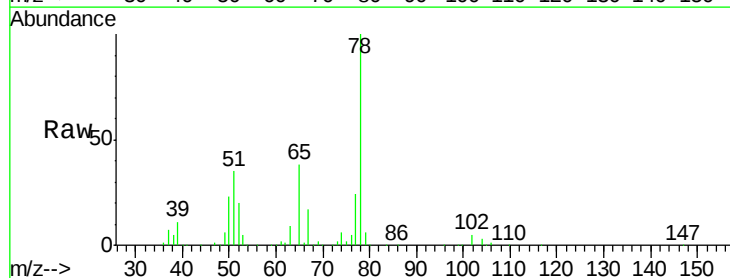
Manual Integrations  
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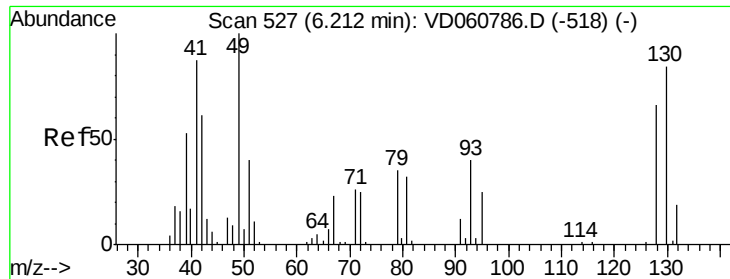
MMDadoda  
1/24/2019 12:50:08 PM



#40  
Benzene  
Concen: 104.663 ug/l  
RT: 7.22 min Scan# 629  
Delta R.T. 0.01 min  
Lab File: VD060788.D  
Acq: 23 Jan 2019 18:03

| Tgt Ion   | 78    | Resp  | 2291125 |
|-----------|-------|-------|---------|
| Ion Ratio | Lower | Upper |         |
| 78        | 100   |       |         |
| 77        | 24.1  | 19.0  | 28.4    |





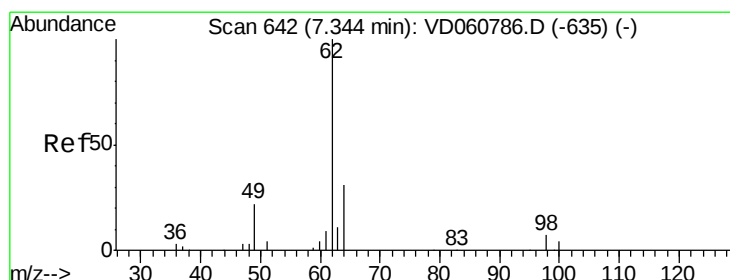
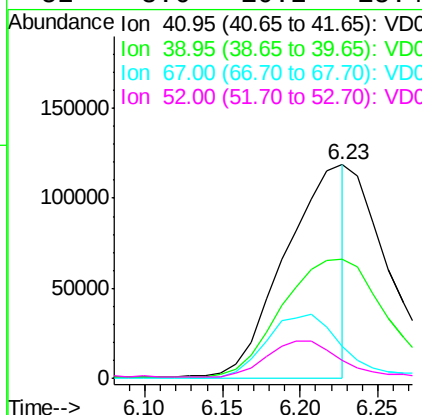
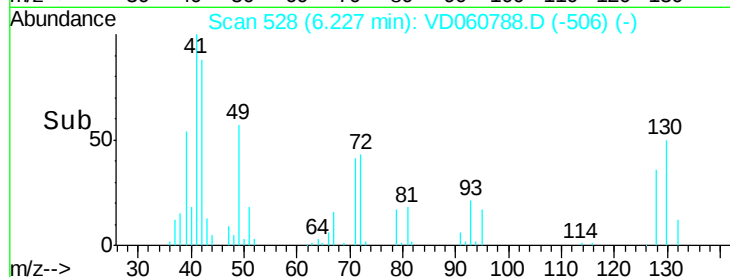
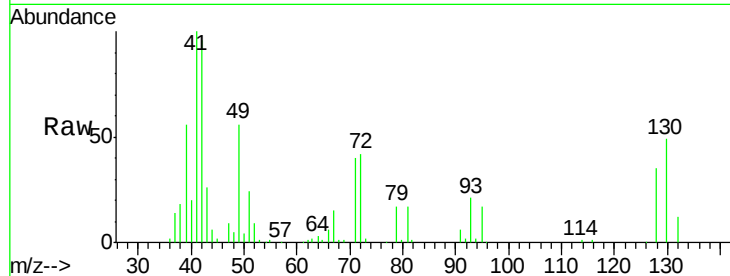
#41  
Methacrylonitrile  
Concen: 98.869 ug/l m  
RT: 6.23 min Scan# 528  
Delta R.T. 0.02 min  
Lab File: VD060788.D  
Acq: 23 Jan 2019 18:03

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDIC100

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 41      | 100   |       |       |
| 39      | 55.7  | 49.4  | 74.2  |
| 67      | 15.3  | 20.7  | 31.1# |
| 52      | 8.6   | 10.2  | 15.4# |

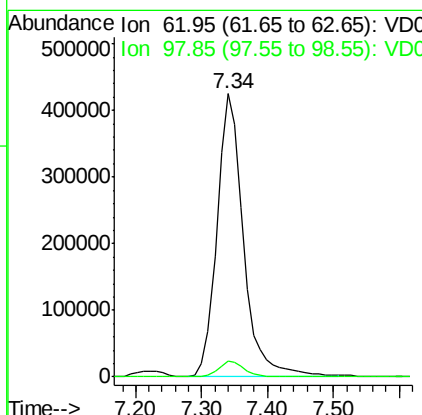
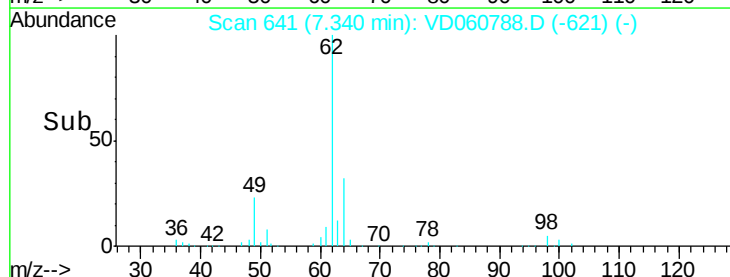
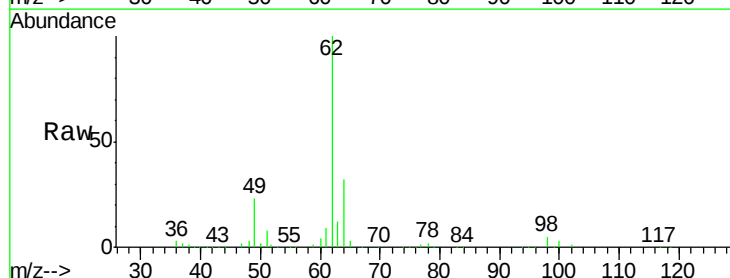
Manual Integrations  
APPROVED

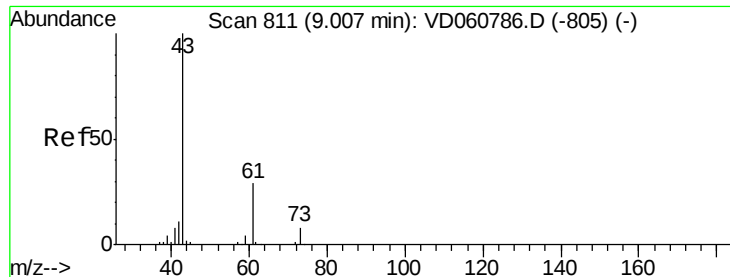
MMDadoda  
1/24/2019 12:50:08 PM



#42  
1,2-Dichloroethane  
Concen: 99.334 ug/l  
RT: 7.34 min Scan# 641  
Delta R.T. -0.00 min  
Lab File: VD060788.D  
Acq: 23 Jan 2019 18:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 62      | 100   |       |       |
| 98      | 5.4   | 0.0   | 13.6  |





#43

Isopropyl Acetate

Concen: 95.974 ug/l

RT: 9.01 min Scan# 811

Delta R.T. 0.01 min

Lab File: VD060788.D

Acq: 23 Jan 2019 18:03

Instrument :

MSVOA\_D

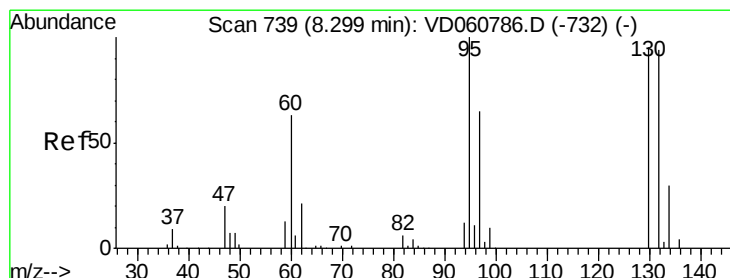
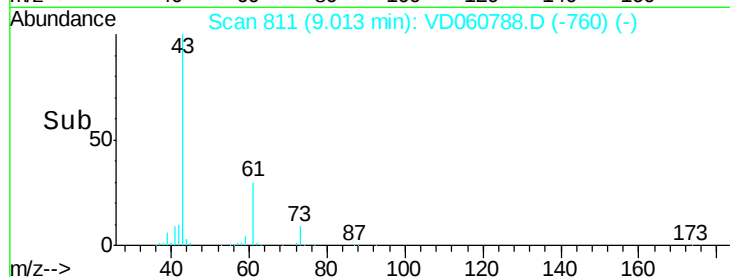
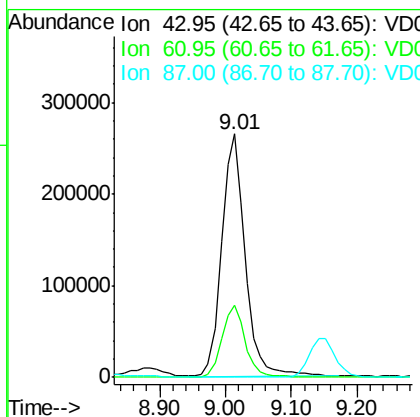
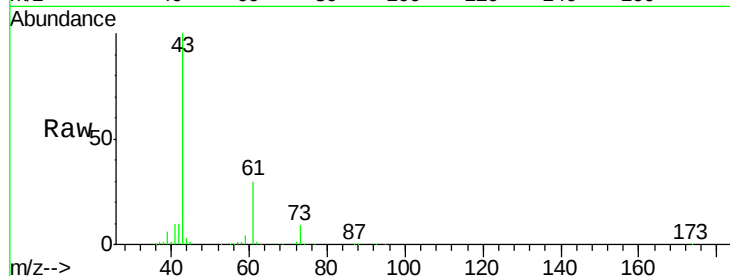
ClientSampleId :

VSTDIC100

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 43    | Resp: | 657743 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 61       | 29.5  | 23.2  | 34.8   |
| 87       | 0.3   | 0.0   | 0.0#   |

Manual Integrations  
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#44

Trichloroethene

Concen: 96.450 ug/l

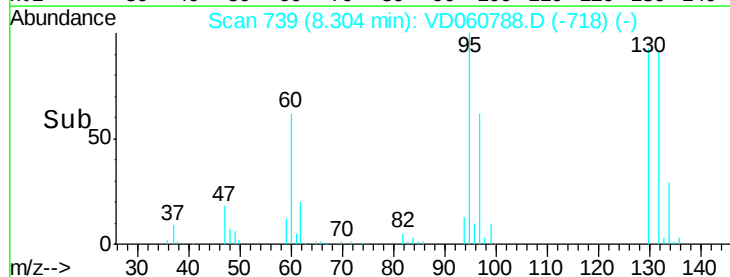
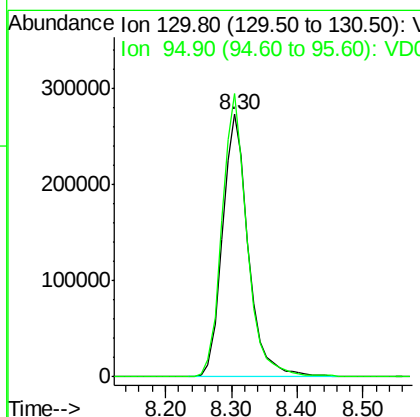
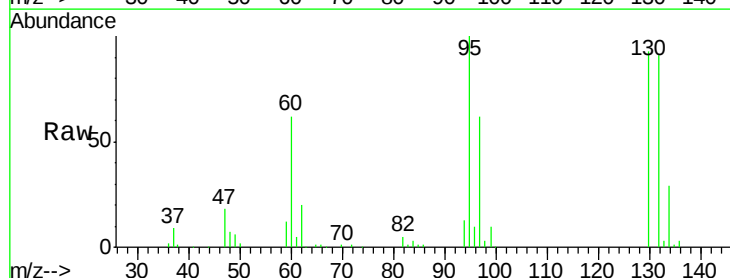
RT: 8.30 min Scan# 739

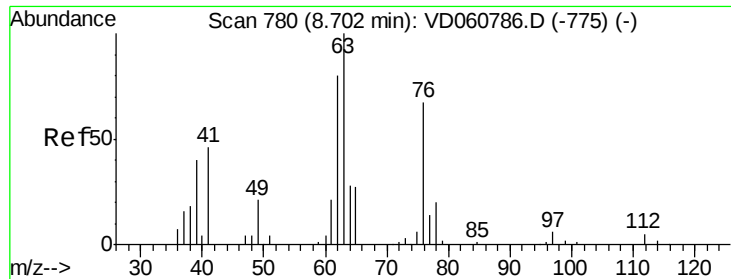
Delta R.T. 0.01 min

Lab File: VD060788.D

Acq: 23 Jan 2019 18:03

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 130   | Resp: | 748963 |
| Ion      | Ratio | Lower | Upper  |
| 130      | 100   |       |        |
| 95       | 107.9 | 0.0   | 211.6  |





#45

1,2-Dichloropropane

Concen: 101.364 ug/l

RT: 8.71 min Scan# 780

Delta R.T. 0.01 min

Lab File: VD060788.D

Acq: 23 Jan 2019 18:03

Instrument :

MSVOA\_D

ClientSampleId :

VSTDIC100

Tot Ion: 63 Resp: 575794

Ion Ratio Lower Upper

63 100

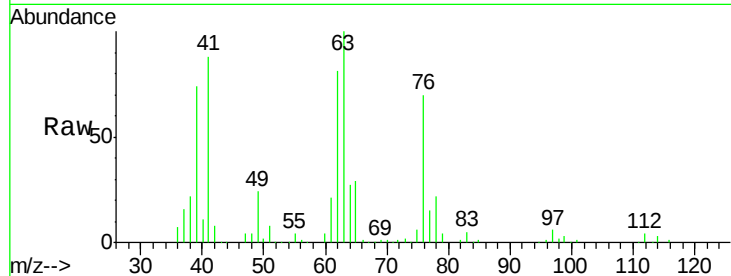
65 29.0 23.0 34.6

Manual Integrations

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Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC

250000

200000

150000

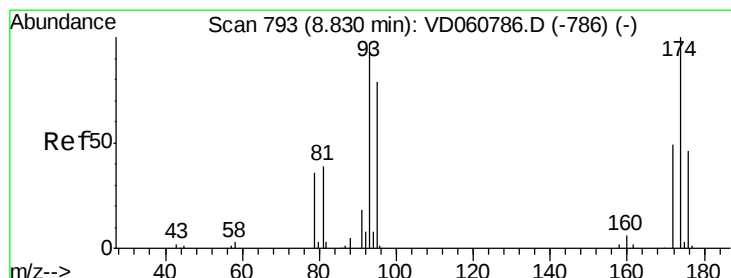
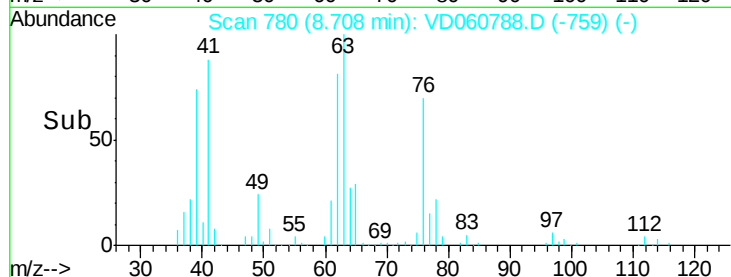
100000

50000

0

8.60 8.70 8.80 8.90

Time-->



#46

Dibromomethane

Concen: 99.154 ug/l

RT: 8.84 min Scan# 793

Delta R.T. 0.01 min

Lab File: VD060788.D

Acq: 23 Jan 2019 18:03

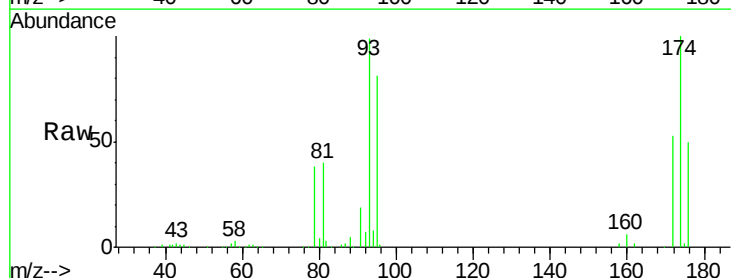
Tgt Ion: 93 Resp: 460727

Ion Ratio Lower Upper

93 100

95 82.0 65.2 97.8

174 101.4 82.1 123.1



Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V

250000

200000

150000

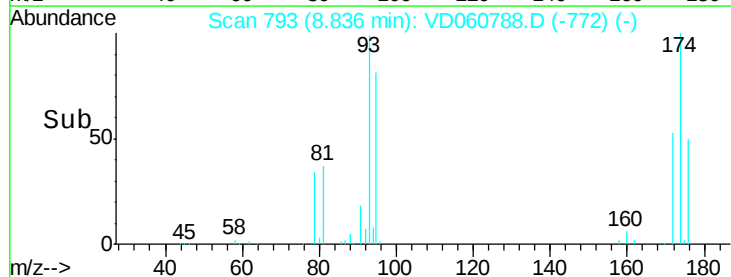
100000

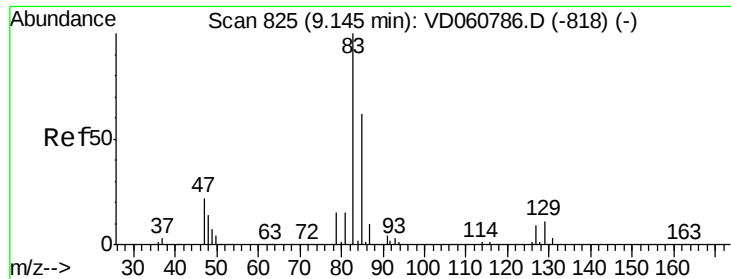
50000

0

8.70 8.80 8.90 9.00

Time-->





#47

Bromodichloromethane

Concen: 101.373 ug/l

RT: 9.14 min Scan# 824

Delta R.T. -0.00 min

Lab File: VD060788.D

Acq: 23 Jan 2019 18:03

Instrument :

MSVOA\_D

ClientSampleId :

VSTDIC100

Tot Ion: 83 Resp: 1160328

Ion Ratio Lower Upper

83 100

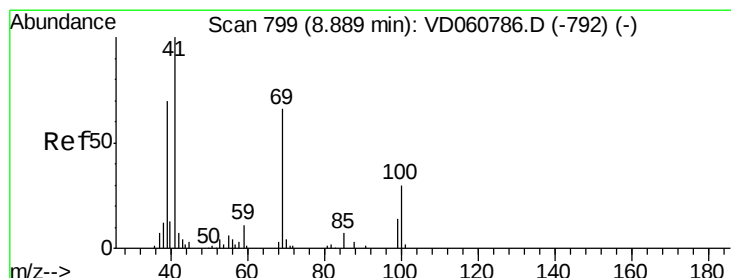
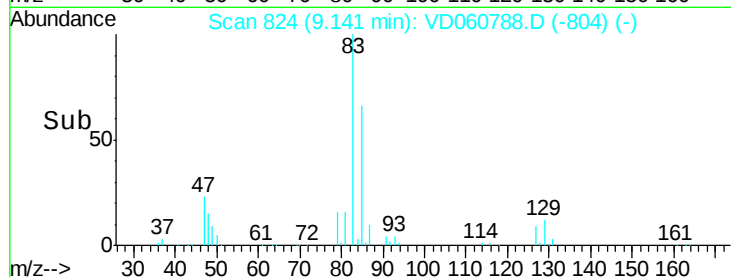
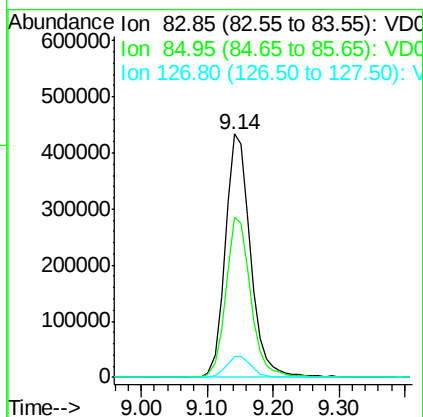
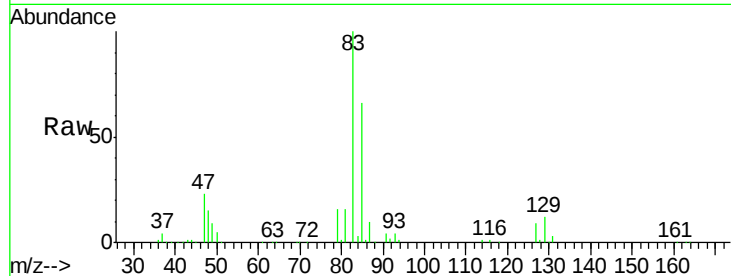
85 65.9 49.8 74.6

127 8.8 7.0 10.4

Manual Integrations  
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#48

Methyl methacrylate

Concen: 99.065 ug/l

RT: 8.89 min Scan# 798

Delta R.T. -0.00 min

Lab File: VD060788.D

Acq: 23 Jan 2019 18:03

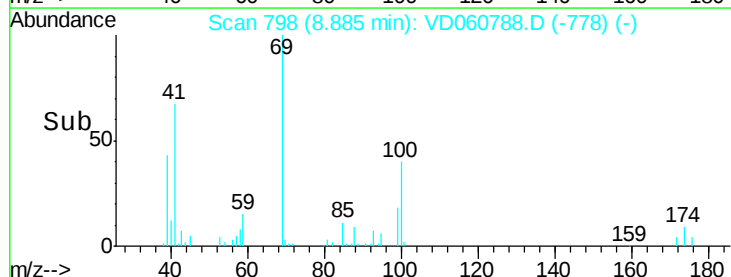
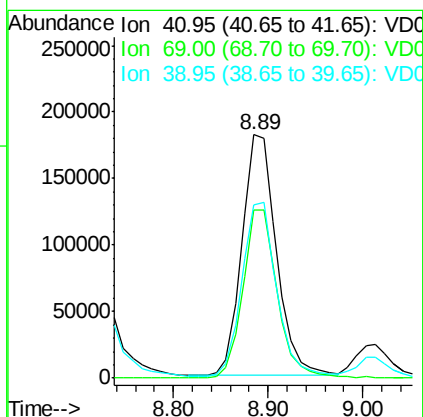
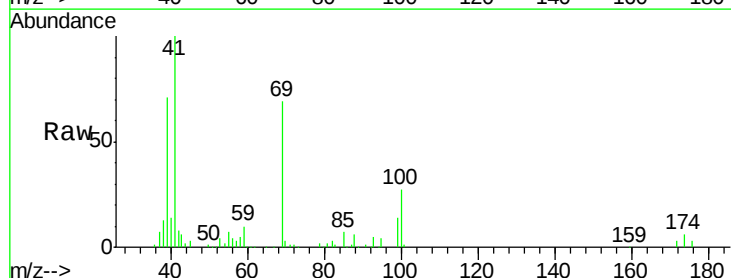
Tgt Ion: 41 Resp: 458135

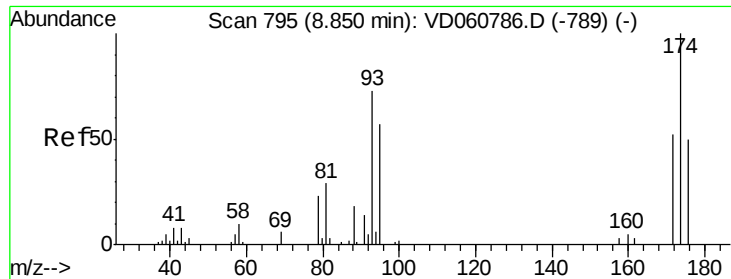
Ion Ratio Lower Upper

41 100

69 68.9 52.2 78.4

39 71.1 56.3 84.5





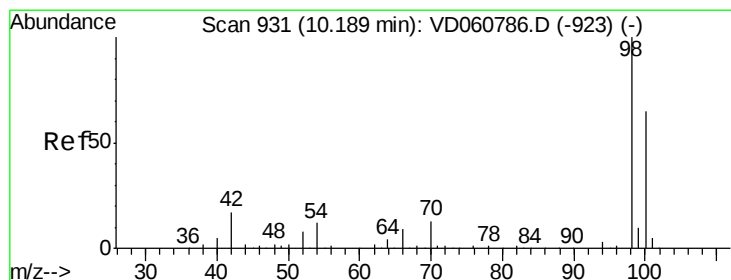
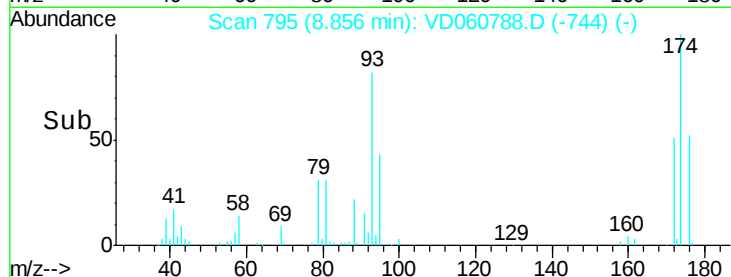
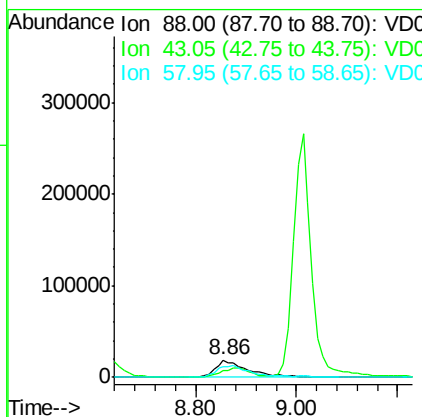
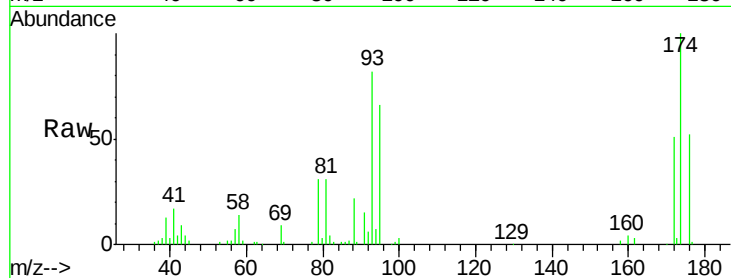
#49  
1,4-Dioxane  
Concen: 2155.556 ug/l  
RT: 8.86 min Scan# 795  
Delta R.T. 0.01 min  
Lab File: VD060788.D  
Acq: 23 Jan 2019 18:03

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDIC100

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 43      | 42.5  | 36.2  | 54.2  |
| 58      | 63.3  | 47.3  | 70.9  |

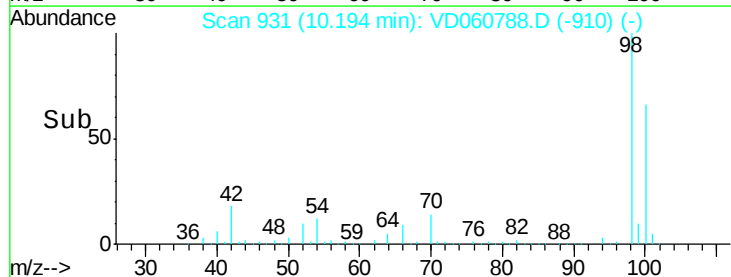
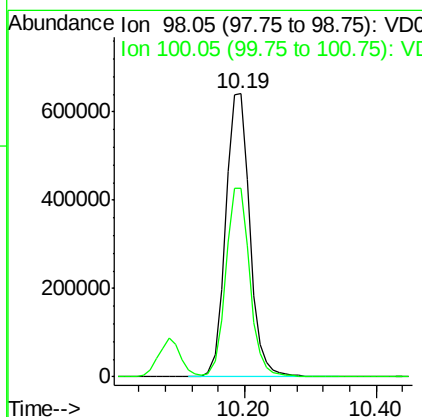
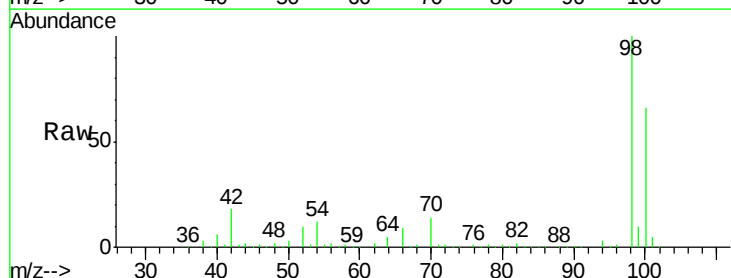
Manual Integrations  
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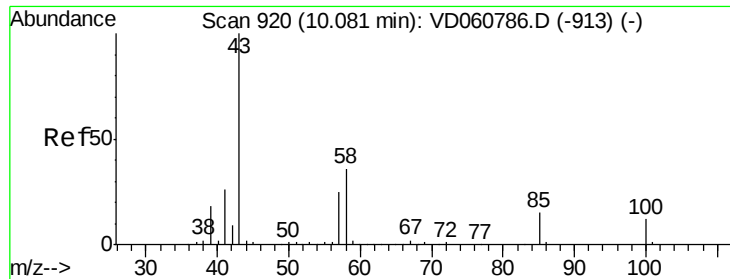
MMDadoda  
1/24/2019 12:50:08 PM



#50  
Toluene-d8  
Concen: 2155.556 ug/l  
RT: 10.19 min Scan# 931  
Delta R.T. 0.01 min  
Lab File: VD060788.D  
Acq: 23 Jan 2019 18:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 98      | 100   |       |       |
| 100     | 66.5  | 53.4  | 80.2  |





#51

4-Methyl-2-Pentanone

Concen: 438.416 ug/l

RT: 10.09 min Scan# 920

Delta R.T. 0.01 min

Lab File: VD060788.D

Acq: 23 Jan 2019 18:03

Instrument :

MSVOA\_D

ClientSampleId :

VSTDIC100

Tot Ion: 43 Resp: 1976461

Ion Ratio Lower Upper

43 100

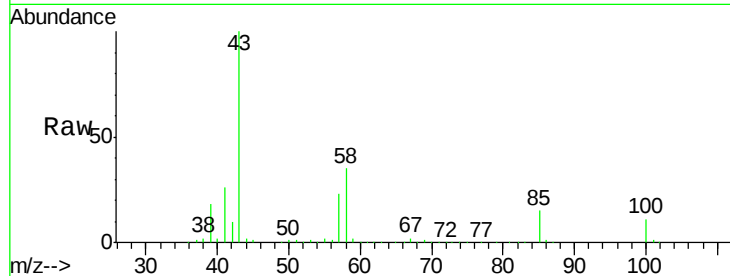
58 35.5 29.0 43.6

Manual Integrations

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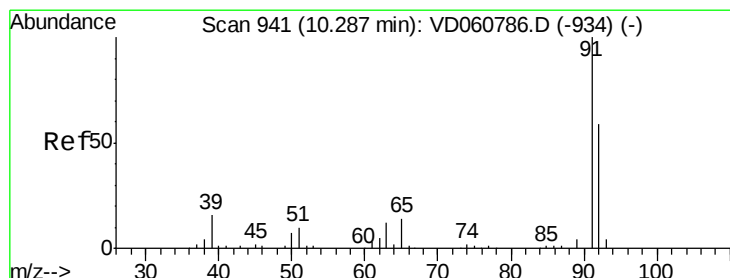
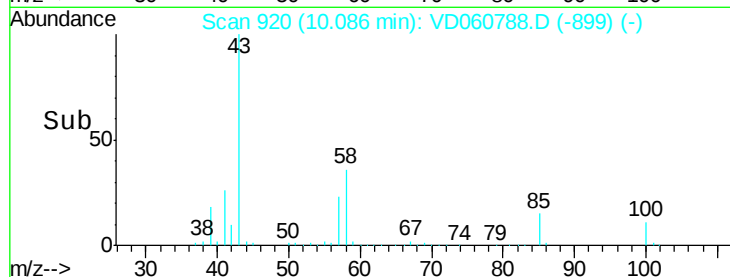
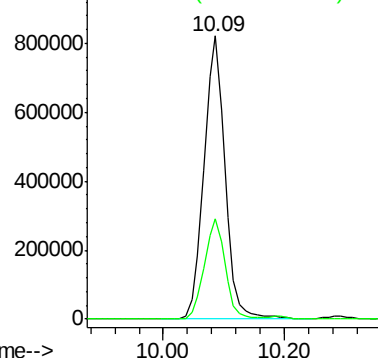
MMDadoda

1/24/2019 12:50:08 PM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 95.762 ug/l

RT: 10.29 min Scan# 941

Delta R.T. 0.01 min

Lab File: VD060788.D

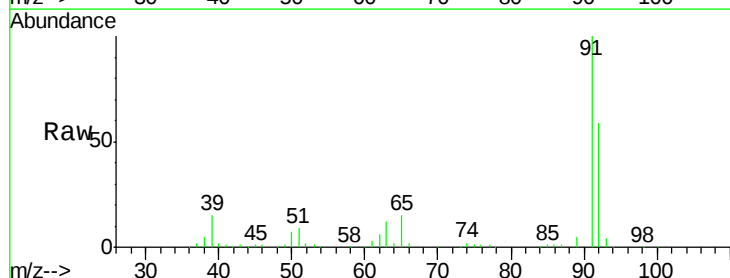
Acq: 23 Jan 2019 18:03

Tgt Ion: 92 Resp: 1311906

Ion Ratio Lower Upper

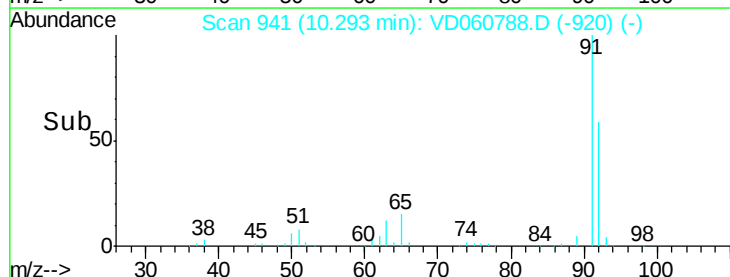
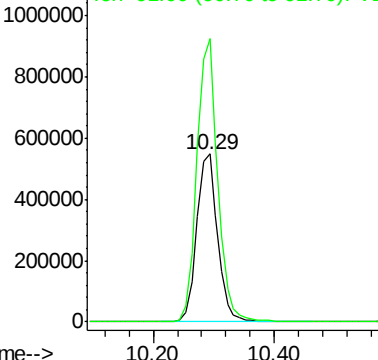
92 100

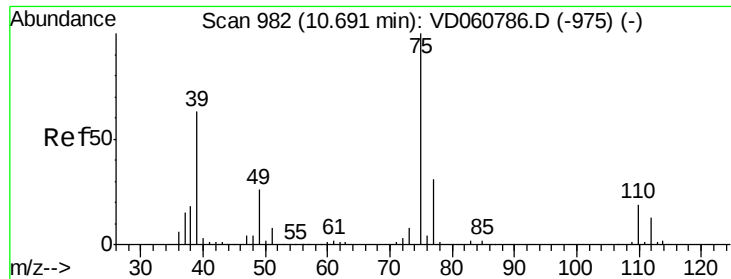
91 168.9 135.1 202.7



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC





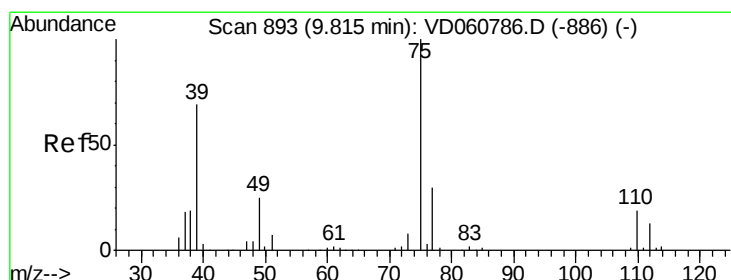
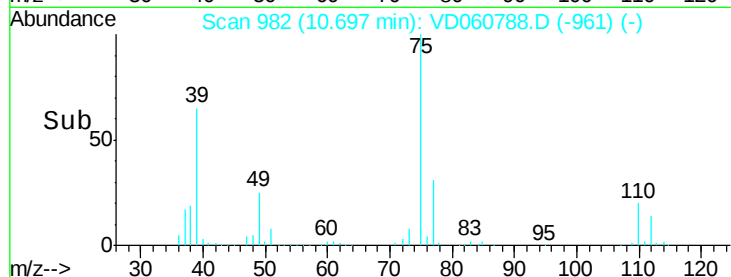
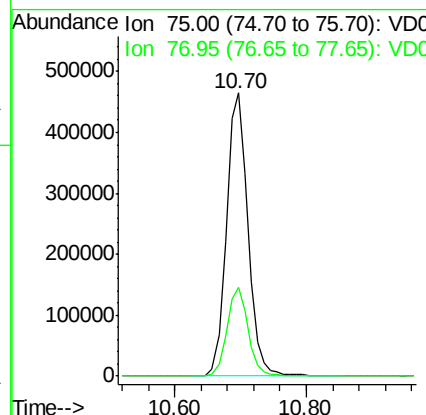
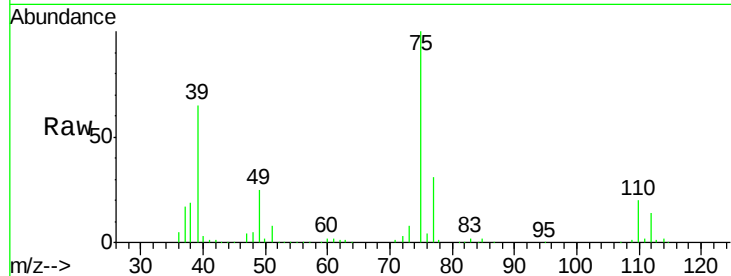
#53  
t-1,3-Dichloropropene  
Concen: 94.342 ug/l  
RT: 10.70 min Scan# 982  
Delta R.T. 0.01 min  
Lab File: VD060788.D  
Acq: 23 Jan 2019 18:03

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDIC100

Tot Ion: 75 Resp: 1056683  
Ion Ratio Lower Upper  
75 100  
77 31.4 24.4 36.6

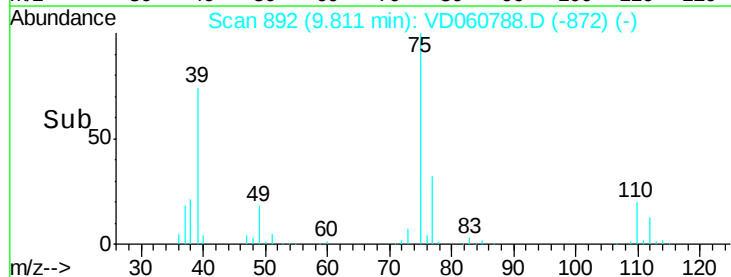
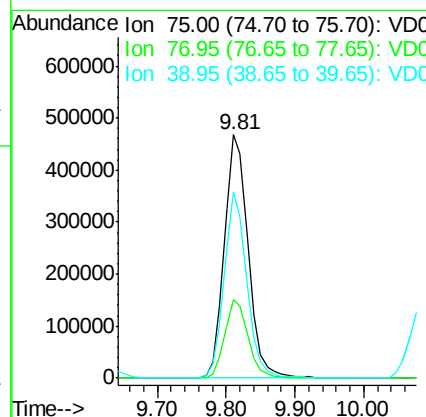
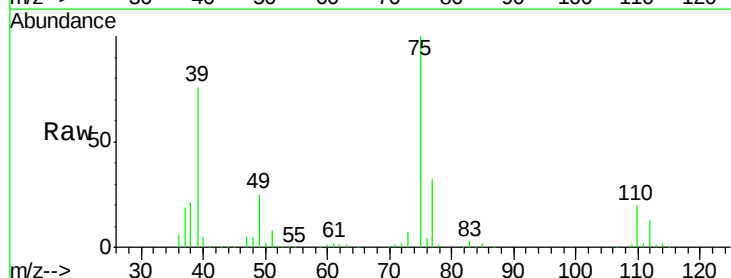
Manual Integrations  
APPROVED

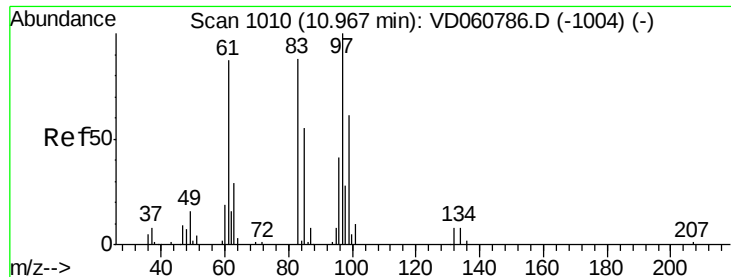
MMDadoda  
1/24/2019 12:50:08 PM



#54  
cis-1,3-Dichloropropene  
Concen: 105.292 ug/l  
RT: 9.81 min Scan# 892  
Delta R.T. -0.00 min  
Lab File: VD060788.D  
Acq: 23 Jan 2019 18:03

Tgt Ion: 75 Resp: 1120249  
Ion Ratio Lower Upper  
75 100  
77 32.1 24.1 36.1  
39 76.2 55.4 83.0





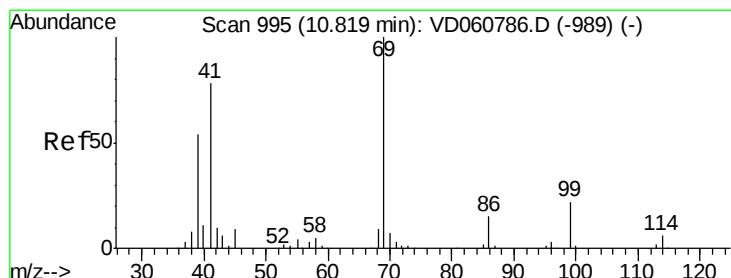
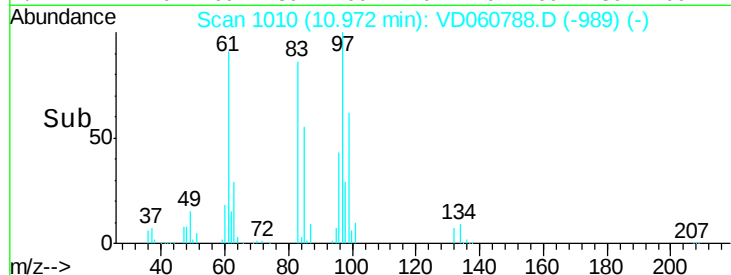
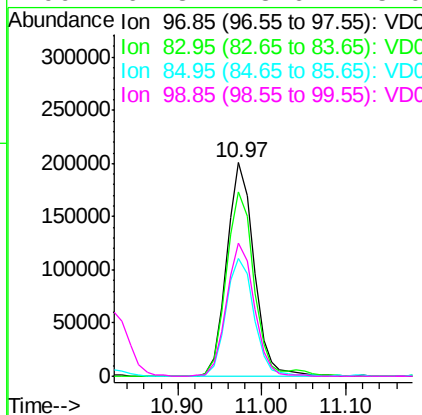
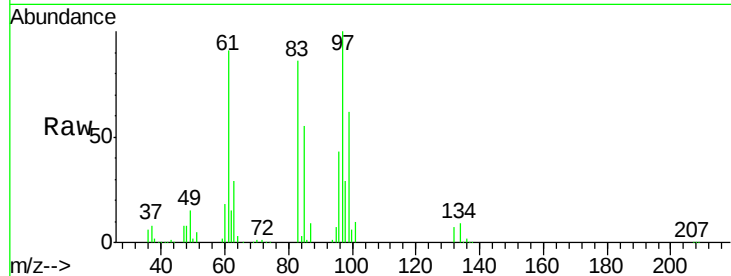
#55  
 1,1,2-Trichloroethane  
 Concen: 93.530 ug/l  
 RT: 10.97 min Scan# 1010  
 Delta R.T. 0.01 min  
 Lab File: VD060788.D  
 Acq: 23 Jan 2019 18:03

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDIC100

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 83      | 86.2  | 70.4  | 105.6 |
| 85      | 55.4  | 43.9  | 65.9  |
| 99      | 62.3  | 48.6  | 73.0  |

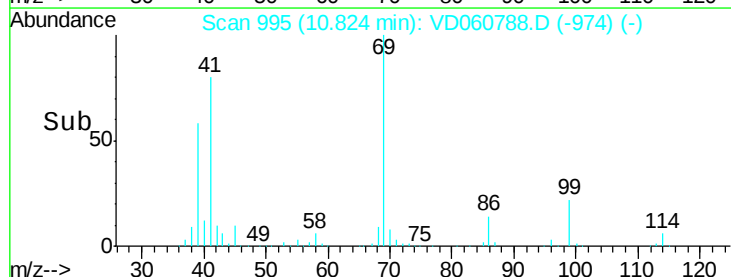
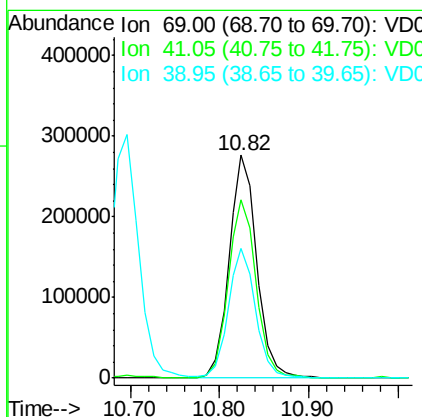
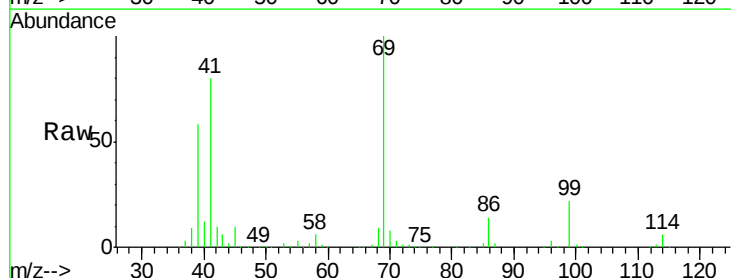
Manual Integrations  
 APPROVED

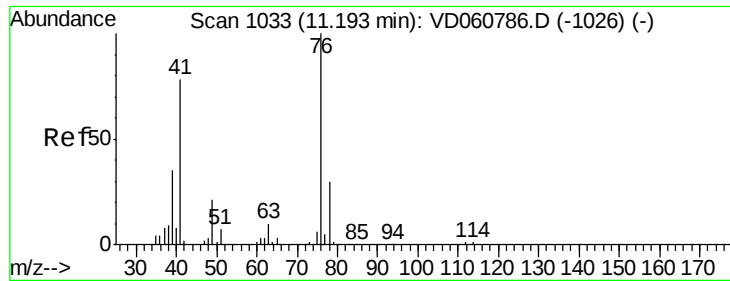
MMDadoda  
 1/24/2019 12:50:08 PM



#56  
 Ethyl methacrylate  
 Concen: 106.326 ug/l  
 RT: 10.82 min Scan# 995  
 Delta R.T. 0.01 min  
 Lab File: VD060788.D  
 Acq: 23 Jan 2019 18:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 69      | 100   |       |       |
| 41      | 79.9  | 62.0  | 93.0  |
| 39      | 58.4  | 43.8  | 65.8  |





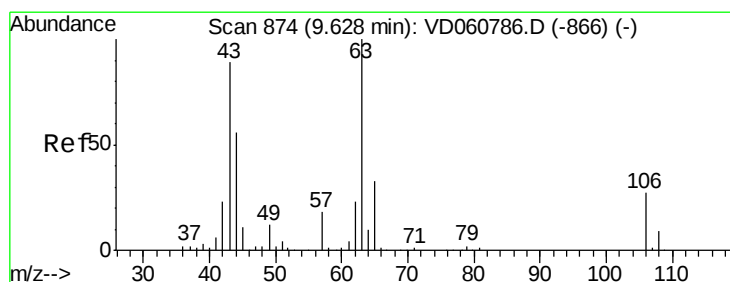
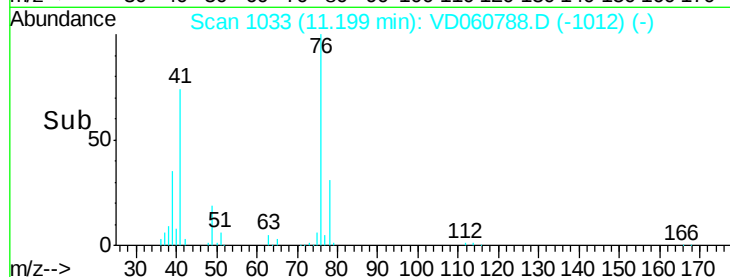
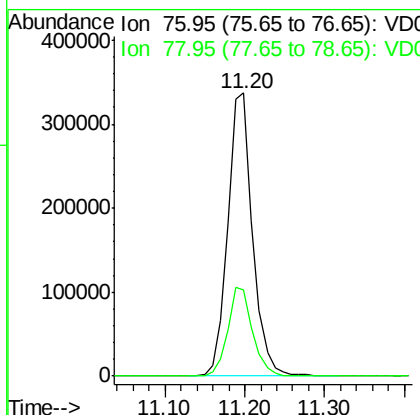
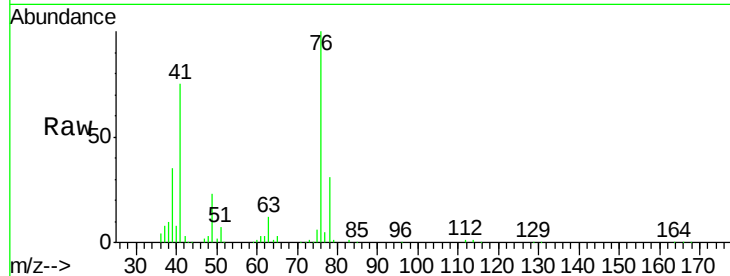
#57  
 1,3-Dichloropropane  
 Concen: 86.355 ug/l  
 RT: 11.20 min Scan# 1033  
 Delta R.T. 0.01 min  
 Lab File: VD060788.D  
 Acq: 23 Jan 2019 18:03

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDIC100

Tot Ion: 76 Resp: 735285  
 Ion Ratio Lower Upper  
 76 100  
 78 30.6 24.0 36.0

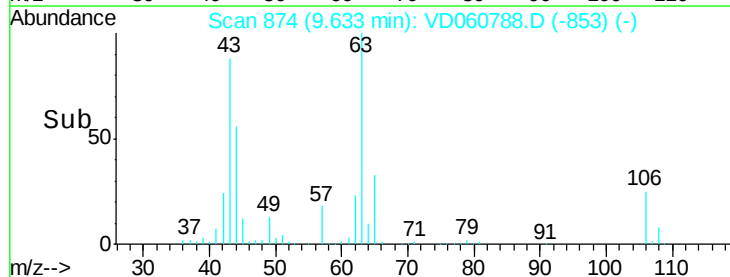
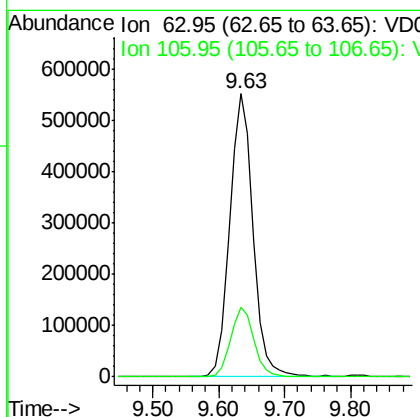
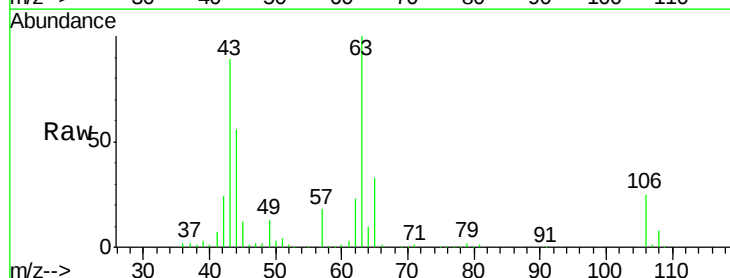
Manual Integrations  
 APPROVED

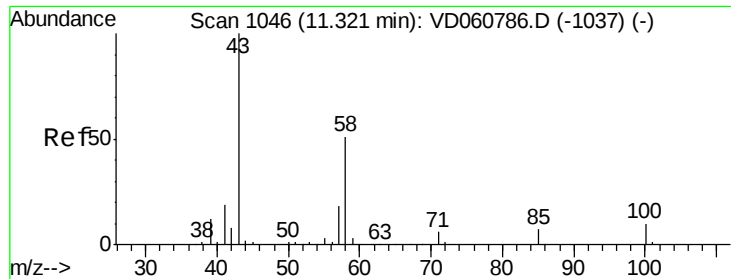
MMDadoda  
 1/24/2019 12:50:08 PM



#58  
 2-Chloroethyl Vinyl ether  
 Concen: 428.965 ug/l  
 RT: 9.63 min Scan# 874  
 Delta R.T. 0.01 min  
 Lab File: VD060788.D  
 Acq: 23 Jan 2019 18:03

Tgt Ion: 63 Resp: 1367024  
 Ion Ratio Lower Upper  
 63 100  
 106 24.6 21.6 32.4





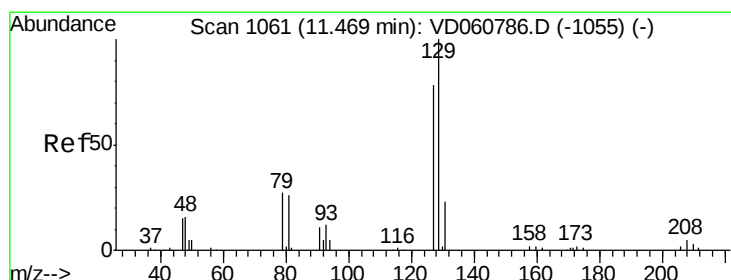
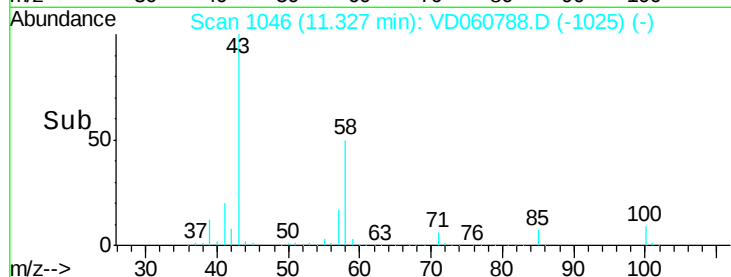
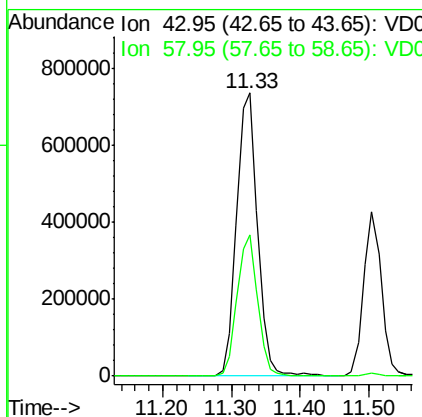
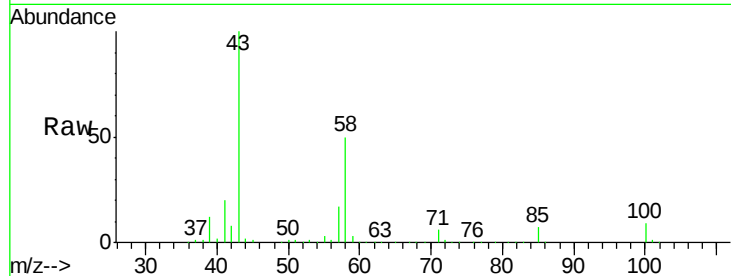
#59  
2-Hexanone  
Concen: 466.842 ug/l  
RT: 11.33 min Scan# 1046  
Delta R.T. 0.01 min  
Lab File: VD060788.D  
Acq: 23 Jan 2019 18:03

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDICC100

Tot Ion: 43 Resp: 1552874  
Ion Ratio Lower Upper  
43 100  
58 50.0 25.4 76.2

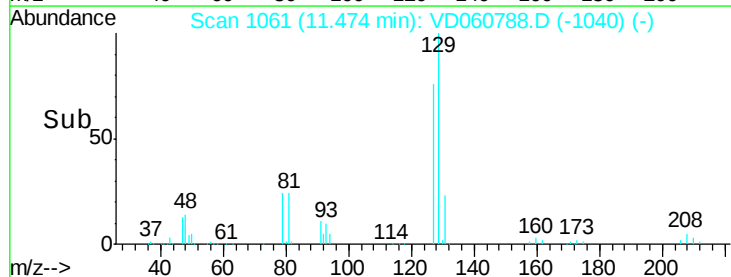
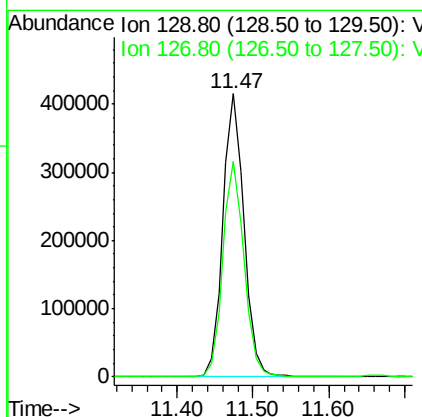
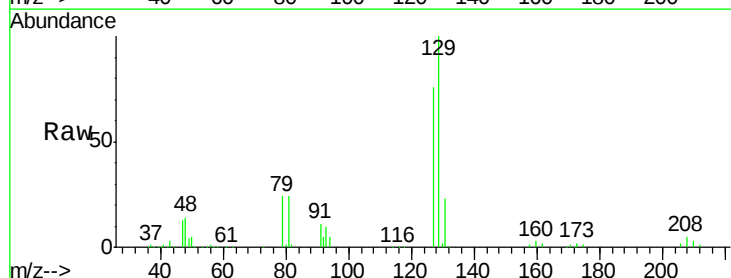
Manual Integrations  
APPROVED

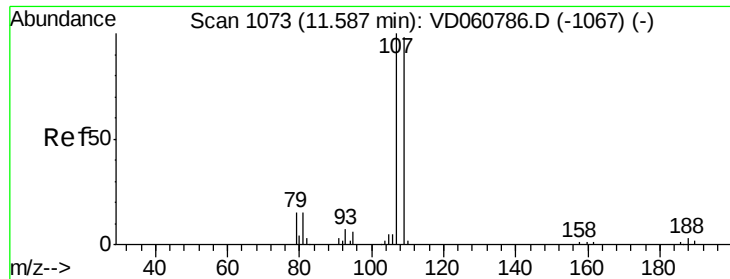
MMDadoda  
1/24/2019 12:50:08 PM



#60  
Dibromochloromethane  
Concen: 104.363 ug/l  
RT: 11.47 min Scan# 1061  
Delta R.T. 0.01 min  
Lab File: VD060788.D  
Acq: 23 Jan 2019 18:03

Tgt Ion: 129 Resp: 804206  
Ion Ratio Lower Upper  
129 100  
127 75.9 39.0 117.0





#61

1,2-Dibromoethane

Concen: 103.862 ug/l

RT: 11.59 min Scan# 1073

Delta R.T. 0.01 min

Lab File: VD060788.D

Acq: 23 Jan 2019 18:03

Instrument :

MSVOA\_D

ClientSampleId :

VSTDIC100

Tot Ion:107 Resp: 572513

Ion Ratio Lower Upper

107 100

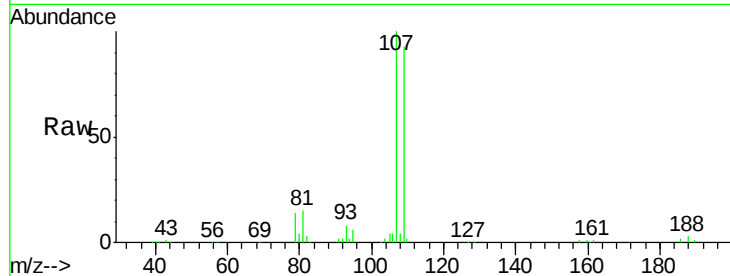
109 93.5 78.2 117.2

Manual Integrations

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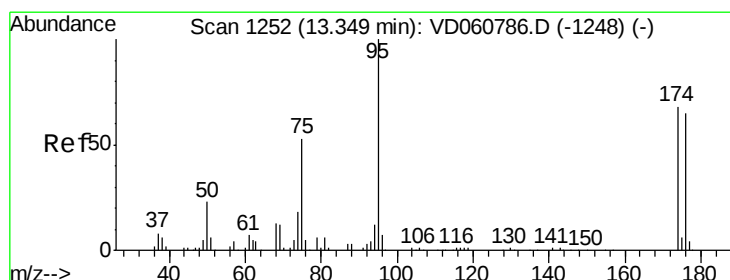
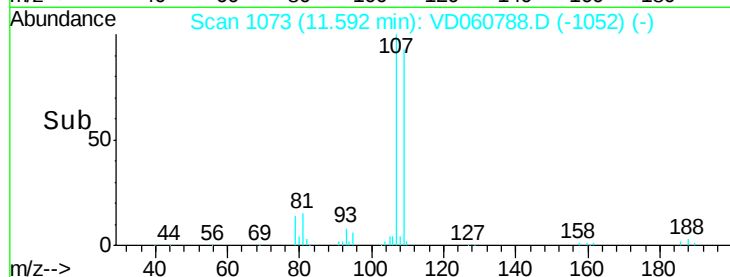
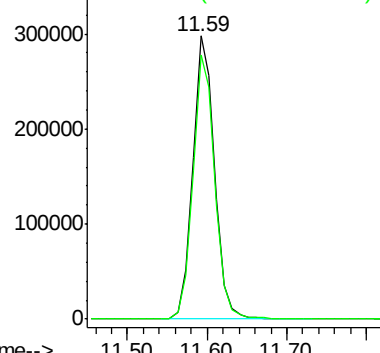
MMDadoda

1/24/2019 12:50:08 PM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V



#62

4-Bromofluorobenzene

Concen: 103.862 ug/l

RT: 13.35 min Scan# 1252

Delta R.T. 0.01 min

Lab File: VD060788.D

Acq: 23 Jan 2019 18:03

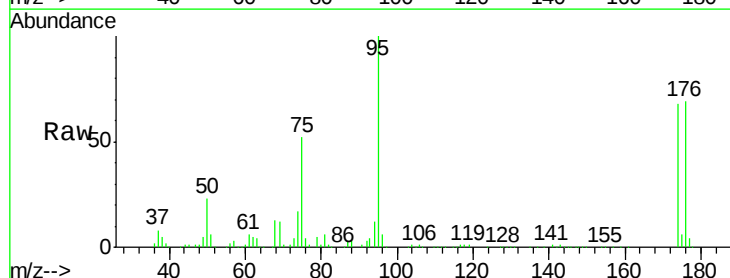
Tgt Ion: 95 Resp: 794118

Ion Ratio Lower Upper

95 100

174 68.4 0.0 135.6

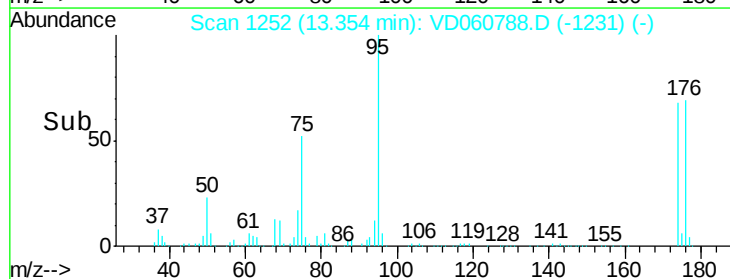
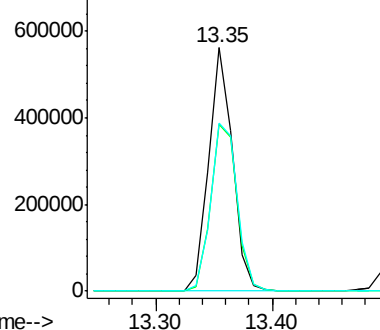
176 69.1 0.0 130.6

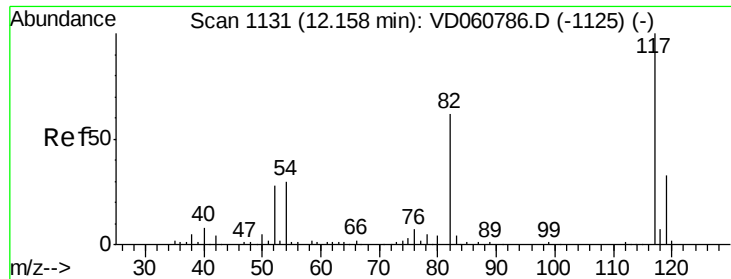


Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V





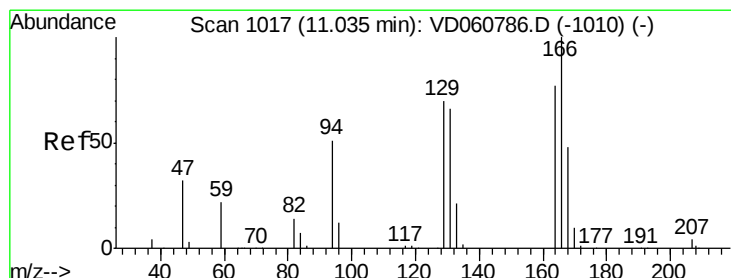
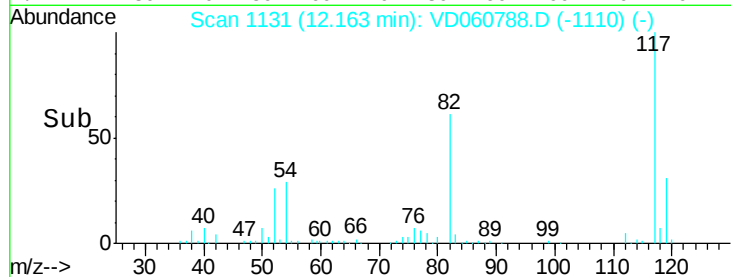
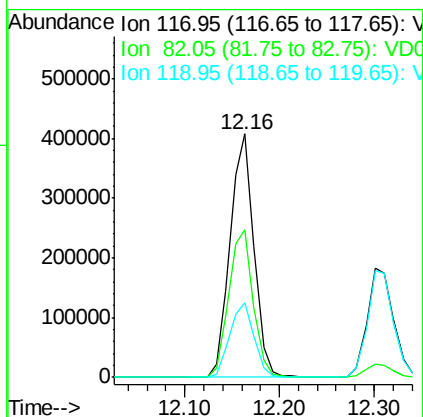
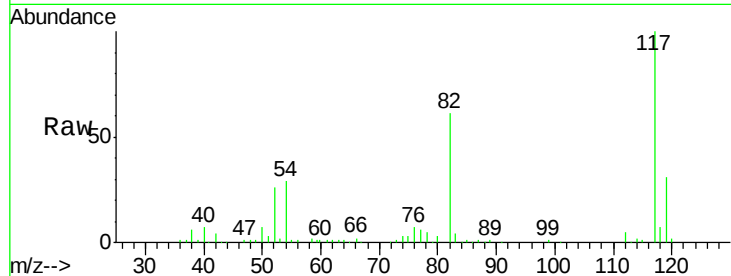
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 12.16 min Scan# 1131  
Delta R.T. 0.01 min  
Lab File: VD060788.D  
Acq: 23 Jan 2019 18:03

Instrument :  
MSVOA\_D  
ClientSampleID :  
VSTDICC100

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 60.7  | 49.5  | 74.3  |
| 119     | 30.8  | 26.2  | 39.4  |

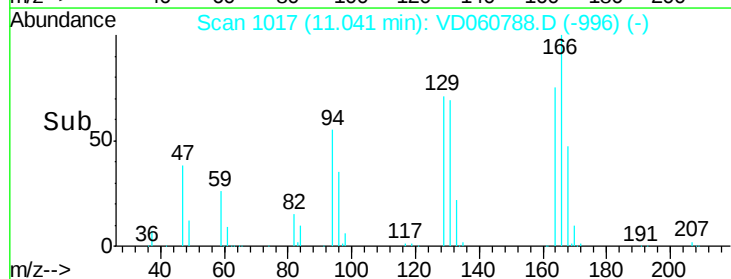
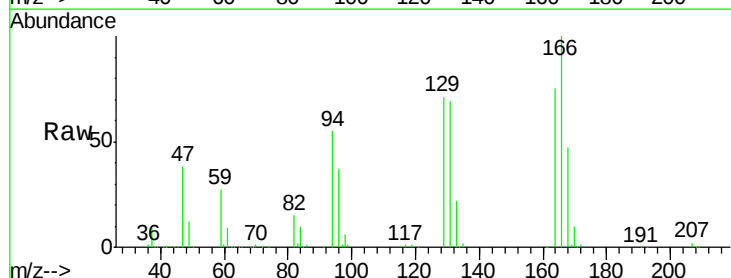
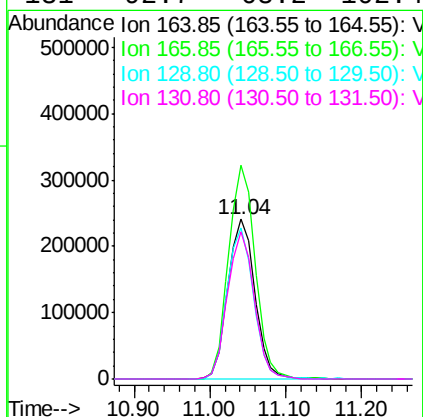
Manual Integrations  
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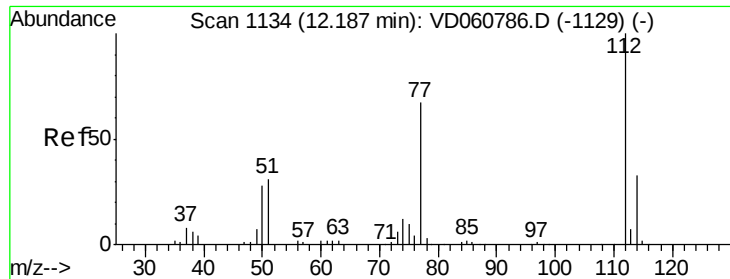
MMDadoda  
1/24/2019 12:50:08 PM



#64  
Tetrachloroethene  
Concen: 95.336 ug/l  
RT: 11.04 min Scan# 1017  
Delta R.T. 0.01 min  
Lab File: VD060788.D  
Acq: 23 Jan 2019 18:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 166     | 133.9 | 103.8 | 155.6 |
| 129     | 94.8  | 72.2  | 108.2 |
| 131     | 92.7  | 68.2  | 102.4 |





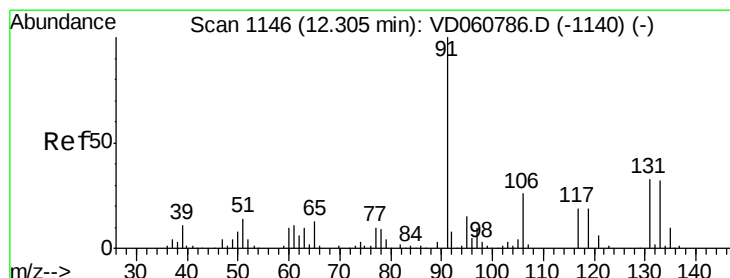
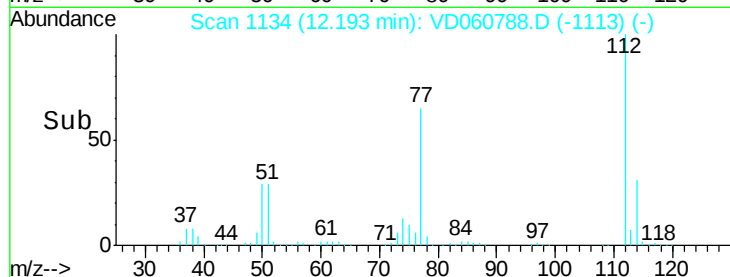
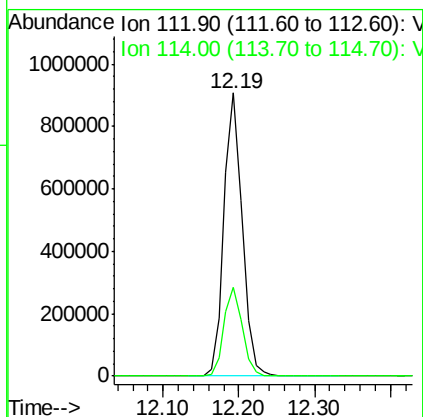
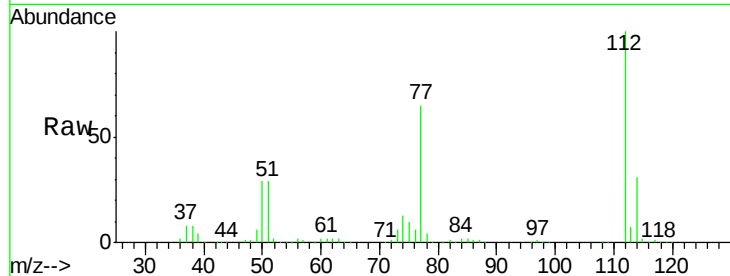
#65  
Chlorobenzene  
Concen: 106.408 ug/l  
RT: 12.19 min Scan# 1134  
Delta R.T. 0.01 min  
Lab File: VD060788.D  
Acq: 23 Jan 2019 18:03

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDIC100

Tot Ion:112 Resp: 1523954  
Ion Ratio Lower Upper  
112 100  
114 31.3 26.4 39.6

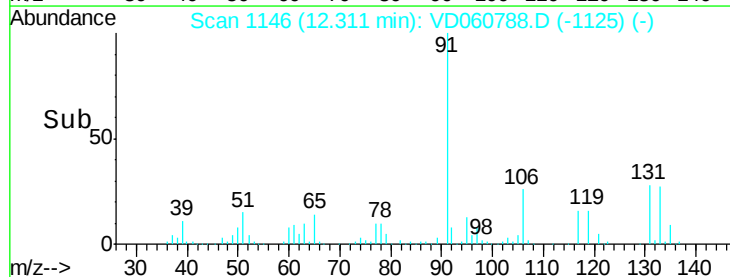
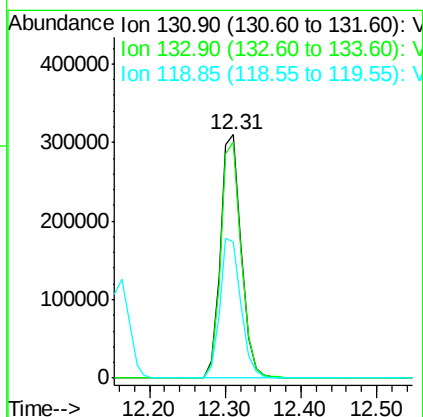
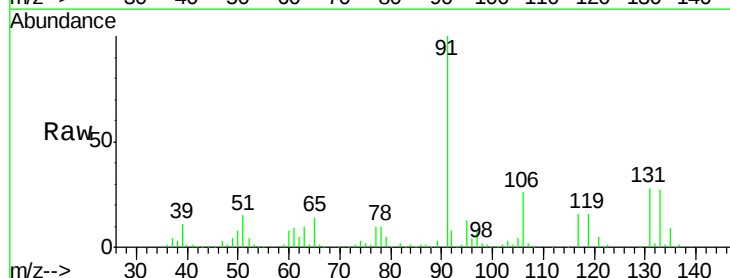
Manual Integrations  
APPROVED

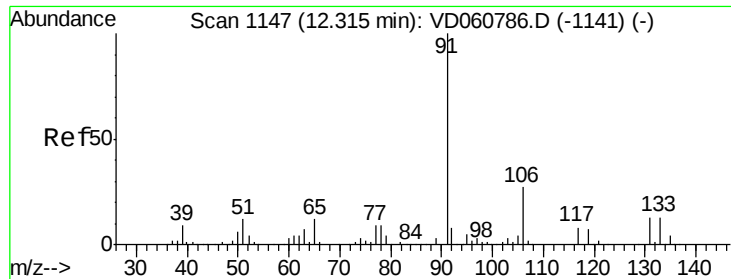
MMDadoda  
1/24/2019 12:50:08 PM



#66  
1,1,1,2-Tetrachloroethane  
Concen: 92.915 ug/l  
RT: 12.31 min Scan# 1146  
Delta R.T. 0.01 min  
Lab File: VD060788.D  
Acq: 23 Jan 2019 18:03

Tgt Ion:131 Resp: 592281  
Ion Ratio Lower Upper  
131 100  
133 96.7 48.3 144.8  
119 56.0 28.0 84.0





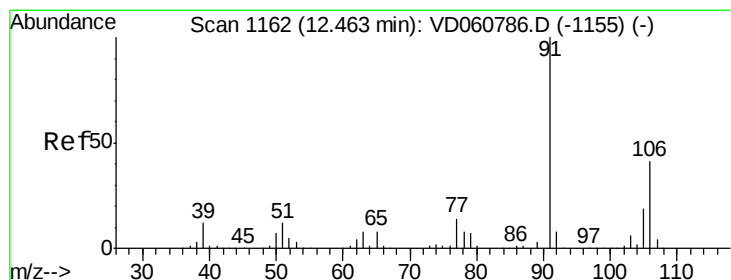
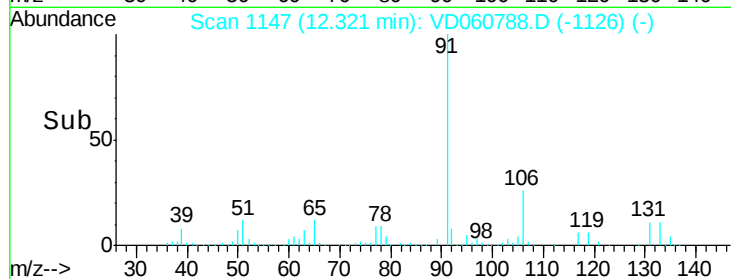
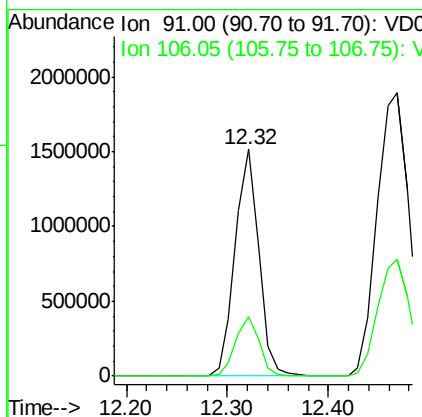
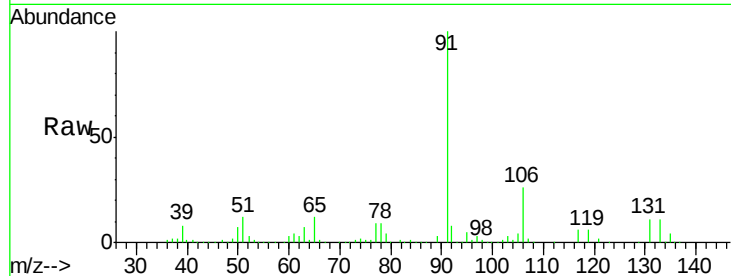
#67  
Ethyl Benzene  
Concen: 92.904 ug/l  
RT: 12.32 min Scan# 1147  
Delta R.T. 0.01 min  
Lab File: VD060788.D  
Acq: 23 Jan 2019 18:03

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDIC100

Tot Ion: 91 Resp: 2479336  
Ion Ratio Lower Upper  
91 100  
106 26.0 21.4 32.2

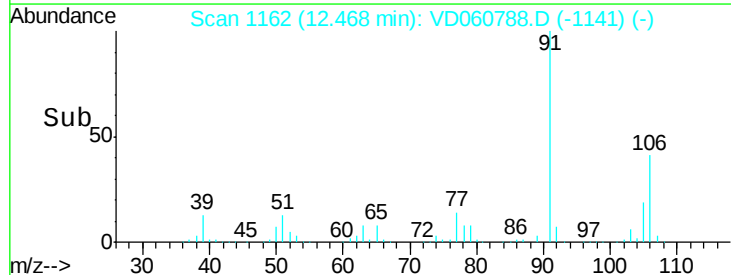
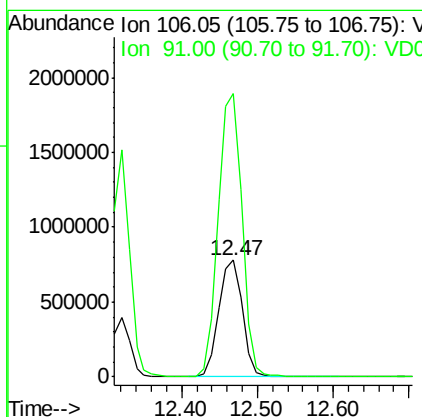
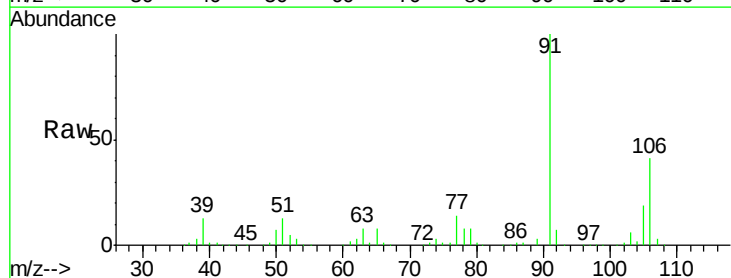
Manual Integrations  
APPROVED

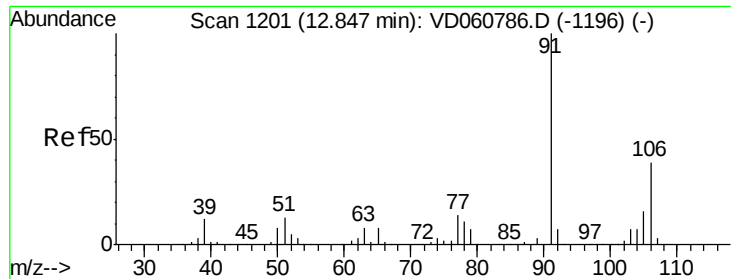
MMDadoda  
1/24/2019 12:50:08 PM



#68  
m/p-Xylenes  
Concen: 193.798 ug/l  
RT: 12.47 min Scan# 1162  
Delta R.T. 0.01 min  
Lab File: VD060788.D  
Acq: 23 Jan 2019 18:03

Tgt Ion: 106 Resp: 1694907  
Ion Ratio Lower Upper  
106 100  
91 242.2 195.6 293.4





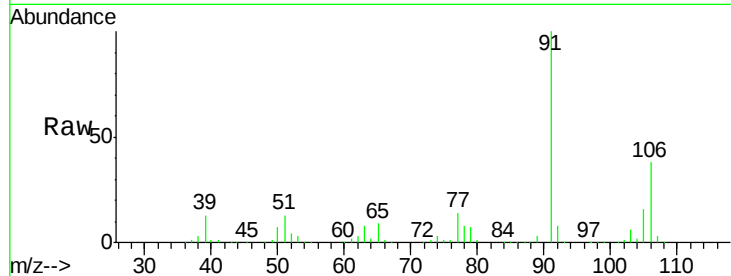
#69  
o-Xylene  
Concen: 97.587 ug/l  
RT: 12.84 min Scan# 1200  
Delta R.T. -0.00 min  
Lab File: VD060788.D  
Acq: 23 Jan 2019 18:03

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDIC100

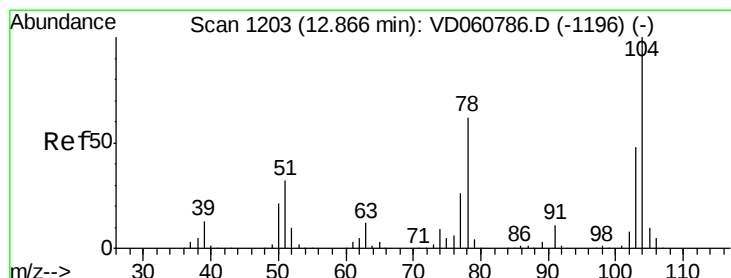
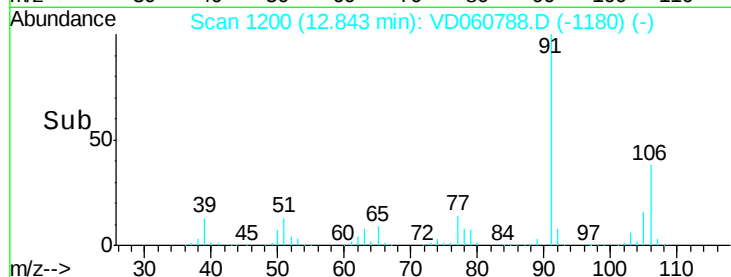
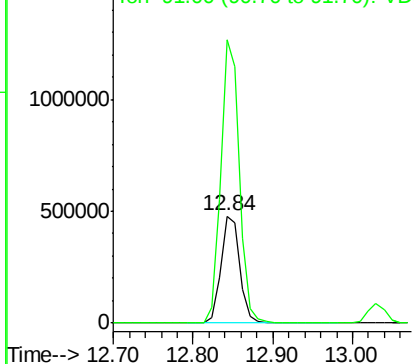
Tot Ion:106 Resp: 801609  
Ion Ratio Lower Upper  
106 100  
91 264.1 127.2 381.5

Manual Integrations  
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MMDadoda  
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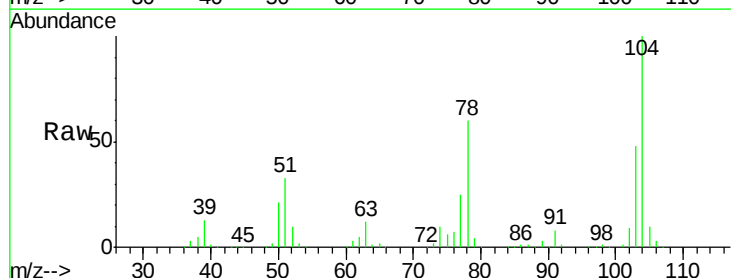


Abundance Ion 106.05 (105.75 to 106.75): V  
Ion 91.00 (90.70 to 91.70): VDC

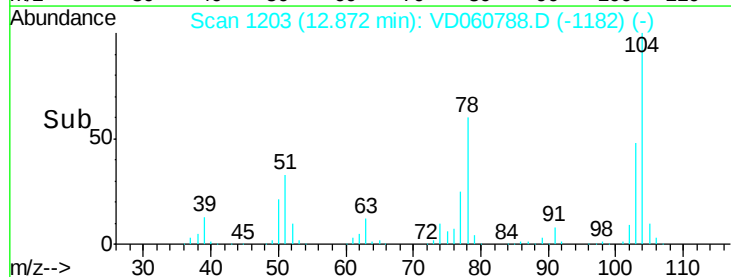
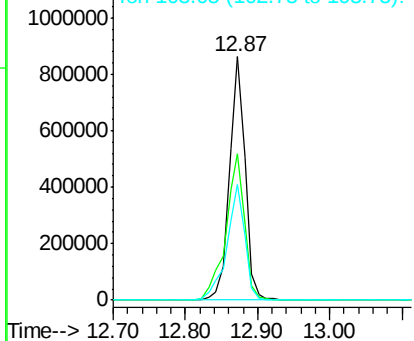


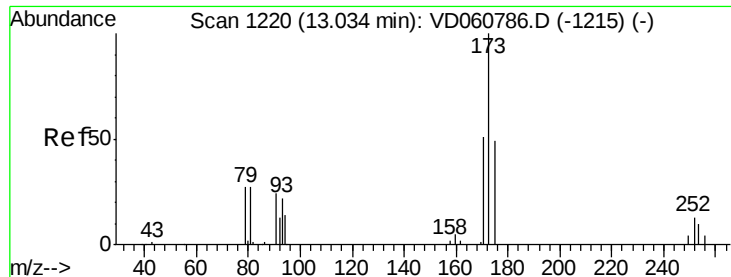
#70  
Styrene  
Concen: 89.894 ug/l  
RT: 12.87 min Scan# 1203  
Delta R.T. 0.01 min  
Lab File: VD060788.D  
Acq: 23 Jan 2019 18:03

Tgt Ion:104 Resp: 1300441  
Ion Ratio Lower Upper  
104 100  
78 60.1 49.7 74.5  
103 47.7 38.2 57.2



Abundance Ion 104.05 (103.75 to 104.75): V  
Ion 77.95 (77.65 to 78.65): VDC  
Ion 103.05 (102.75 to 103.75): V





#71

Bromoform

Concen: 113.225 ug/l

RT: 13.03 min Scan# 1219

Delta R.T. -0.00 min

Lab File: VD060788.D

Acq: 23 Jan 2019 18:03

Instrument :

MSVOA\_D

ClientSampled :

VSTDIC100

Tot Ion:173 Resp: 532753

Ion Ratio Lower Upper

173 100

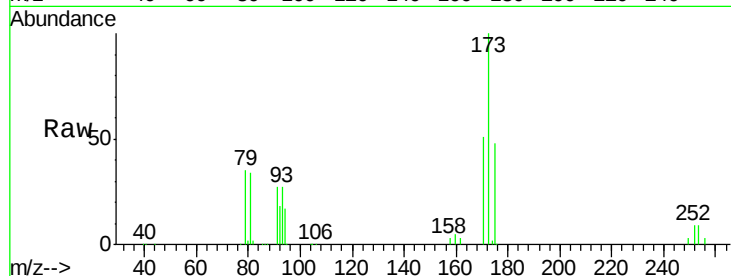
175 48.1 24.3 72.9

254 9.4 8.2 12.4

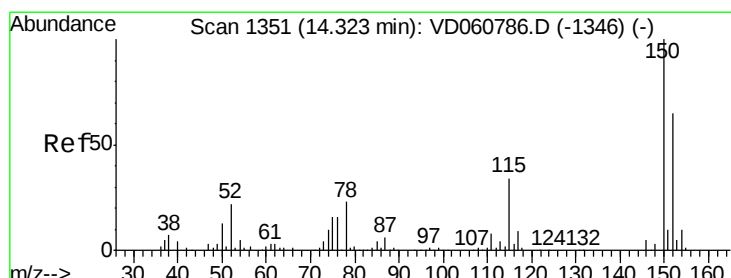
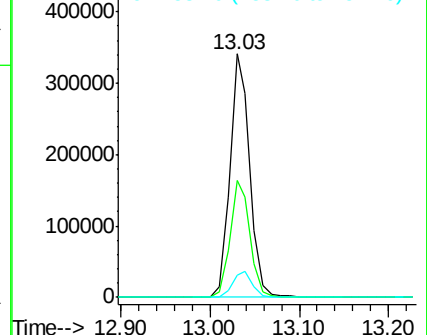
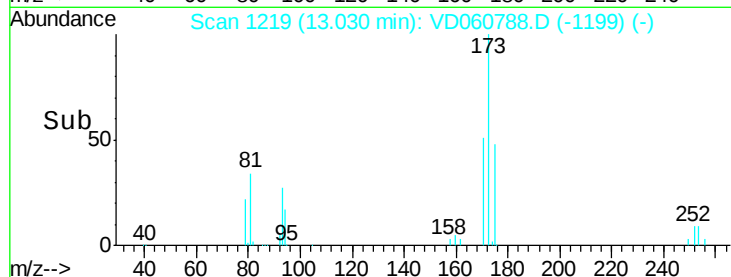
Manual Integrations  
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Abundance Ion 172.80 (172.50 to 173.50): V  
Ion 174.80 (174.50 to 175.50): V  
Ion 253.70 (253.40 to 254.40): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.32 min Scan# 1350

Delta R.T. -0.00 min

Lab File: VD060788.D

Acq: 23 Jan 2019 18:03

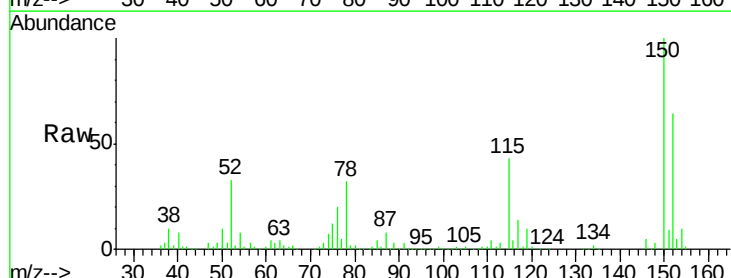
Tgt Ion:152 Resp: 345220

Ion Ratio Lower Upper

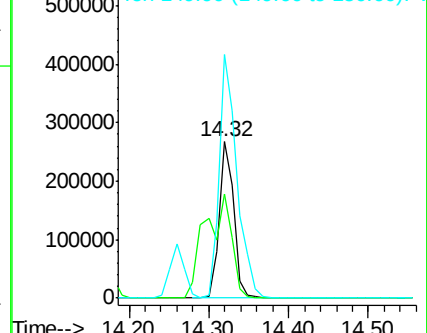
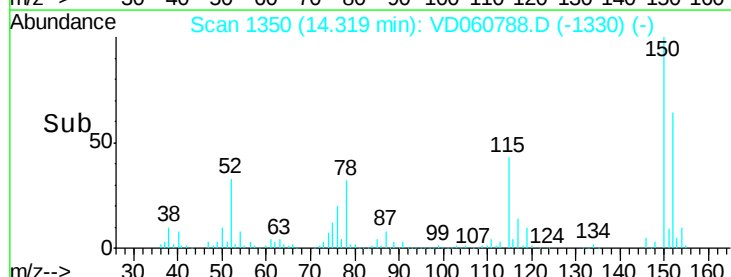
152 100

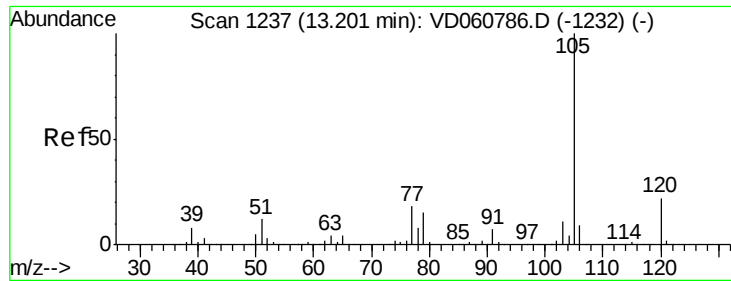
115 66.2 28.1 84.3

150 155.7 0.0 314.0



Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 115.00 (114.70 to 115.70): V  
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 96.005 ug/l

RT: 13.21 min Scan# 1237

Delta R.T. 0.01 min

Lab File: VD060788.D

Acq: 23 Jan 2019 18:03

Instrument :

MSVOA\_D

ClientSampleId :

VSTDIC100

Tot Ion:105 Resp: 2433884

Ion Ratio Lower Upper

105 100

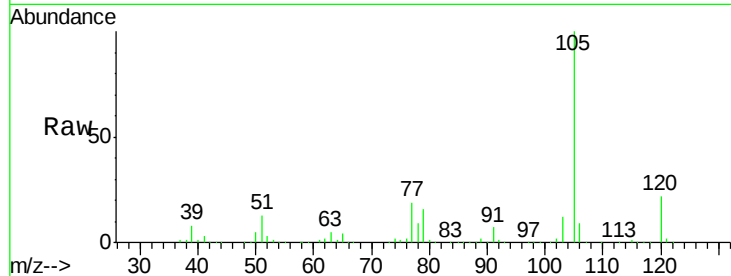
120 21.6 11.1 33.3

Manual Integrations

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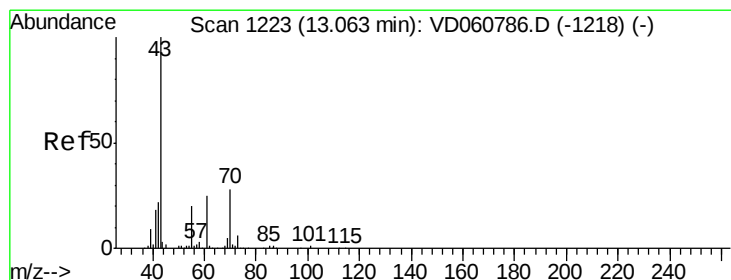
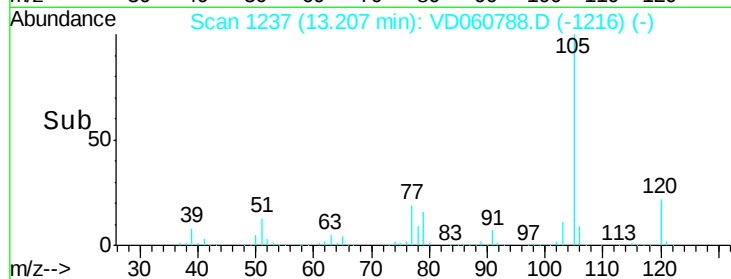
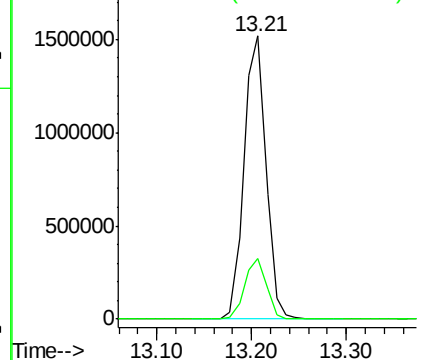
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Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 106.843 ug/l

RT: 13.07 min Scan# 1223

Delta R.T. 0.01 min

Lab File: VD060788.D

Acq: 23 Jan 2019 18:03

Tgt Ion: 43 Resp: 858050

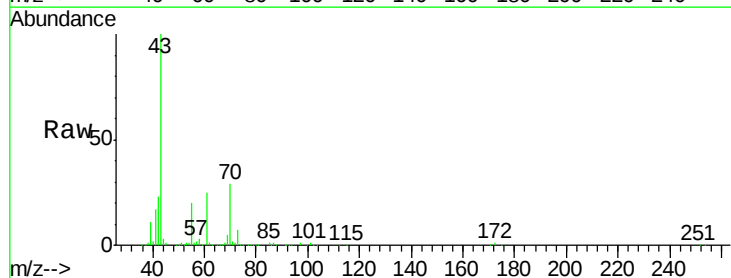
Ion Ratio Lower Upper

43 100

70 29.2 22.6 33.8

55 20.0 16.2 24.2

61 24.8 20.4 30.6

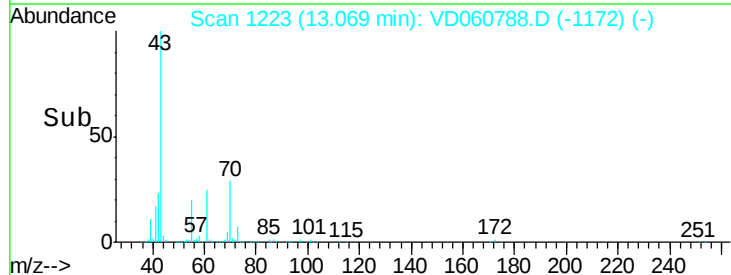
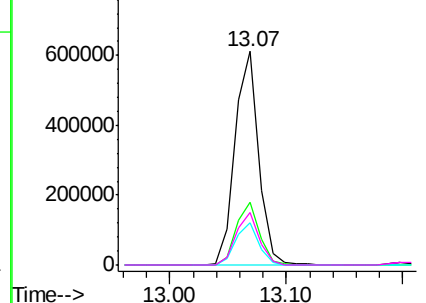


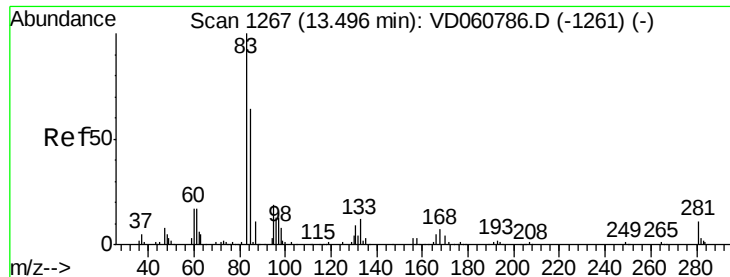
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC





#75

1,1,2,2-Tetrachloroethane

Concen: 112.216 ug/l

RT: 13.50 min Scan# 1267

Delta R.T. 0.01 min

Lab File: VD060788.D

Acq: 23 Jan 2019 18:03

Instrument :

MSVOA\_D

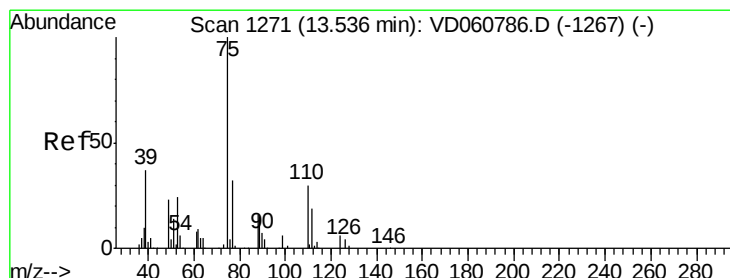
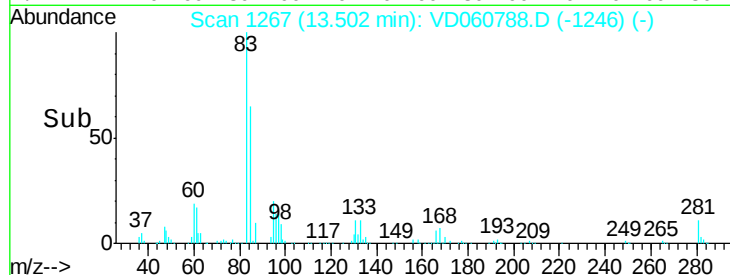
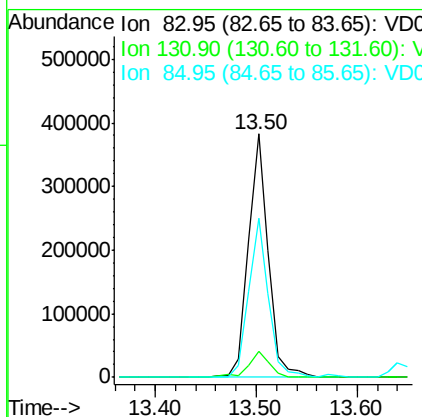
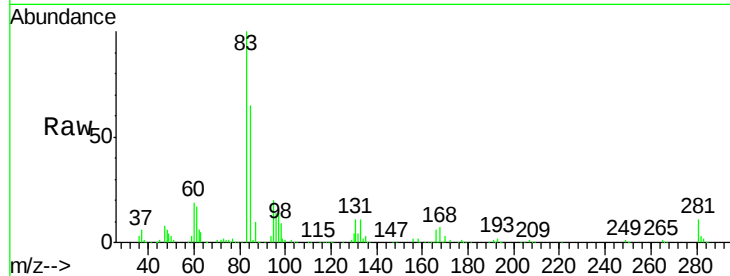
ClientSampleId :

VSTDIC100

|           |      |       |        |
|-----------|------|-------|--------|
| Tot Ion:  | 83   | Resp: | 528593 |
| Ion Ratio |      | Lower | Upper  |
| 83        | 100  |       |        |
| 131       | 10.9 | 4.5   | 13.5   |
| 85        | 65.4 | 32.2  | 96.6   |

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#76

1,2,3-Trichloropropane

Concen: 106.611 ug/l

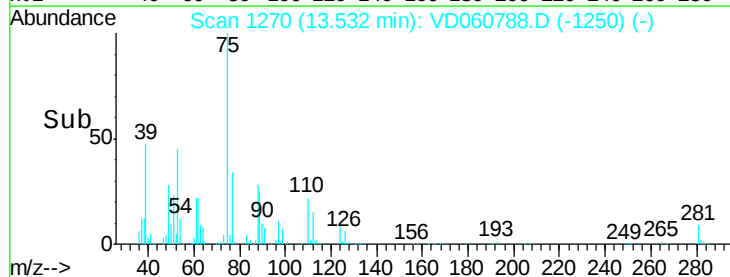
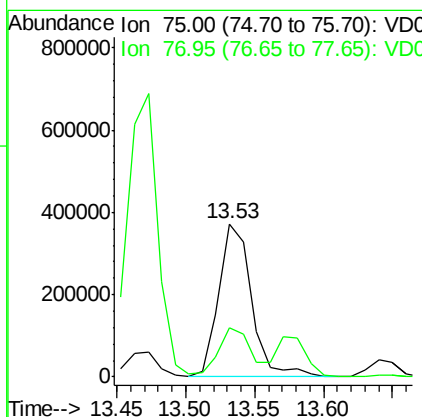
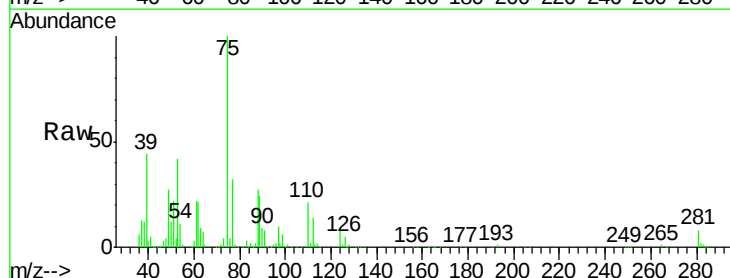
RT: 13.53 min Scan# 1270

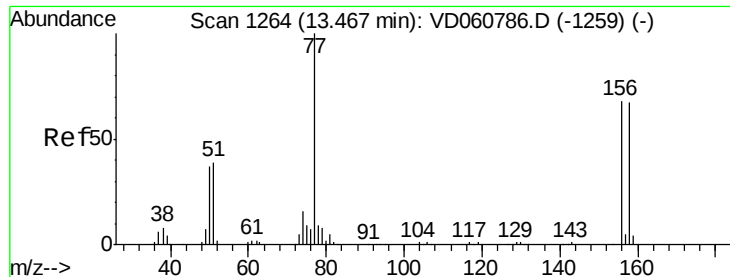
Delta R.T. -0.00 min

Lab File: VD060788.D

Acq: 23 Jan 2019 18:03

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 75   | Resp: | 610336 |
| Ion Ratio |      | Lower | Upper  |
| 75        | 100  |       |        |
| 77        | 32.2 | 17.5  | 52.5   |





#77

Bromobenzene

Concen: 100.866 ug/l

RT: 13.47 min Scan# 1264

Delta R.T. 0.01 min

Lab File: VD060788.D

Acq: 23 Jan 2019 18:03

Instrument :

MSVOA\_D

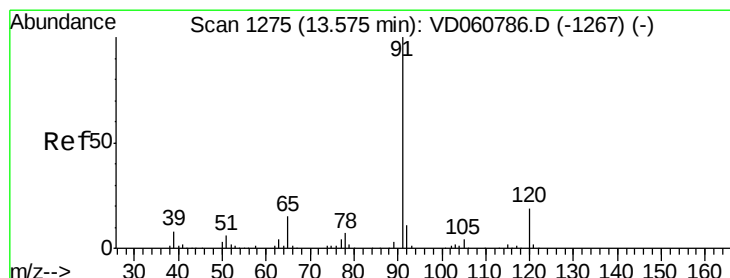
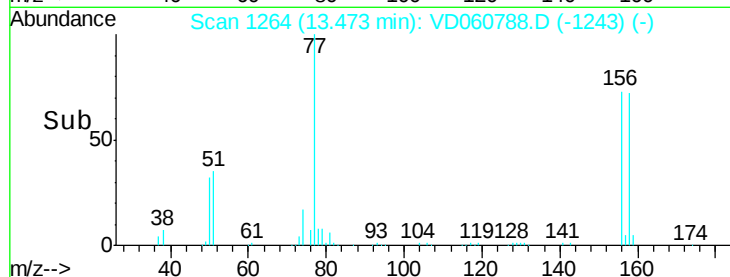
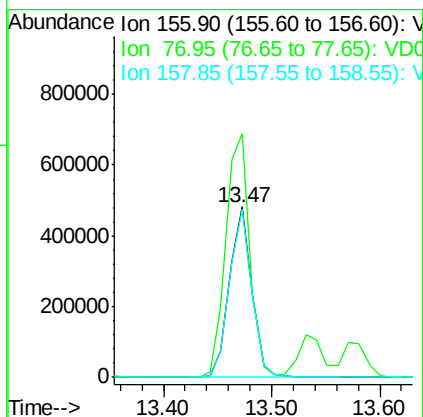
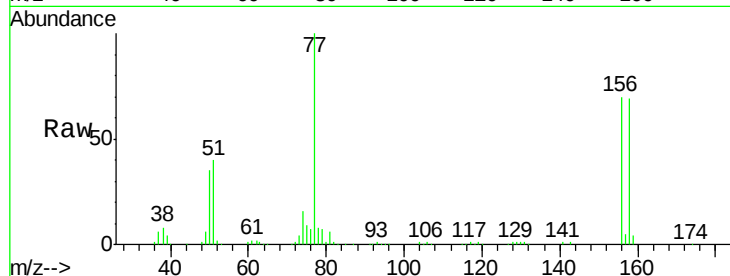
ClientSampleId :

VSTDIC100

| Tot Ion | Ion   | Ratio | Lower | Upper |
|---------|-------|-------|-------|-------|
| 156     | 100   |       |       |       |
| 77      | 142.9 | 74.0  | 222.0 |       |
| 158     | 98.4  | 49.8  | 149.3 |       |

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#78

n-propylbenzene

Concen: 103.556 ug/l

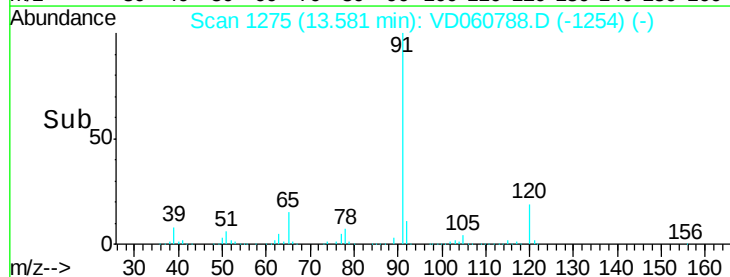
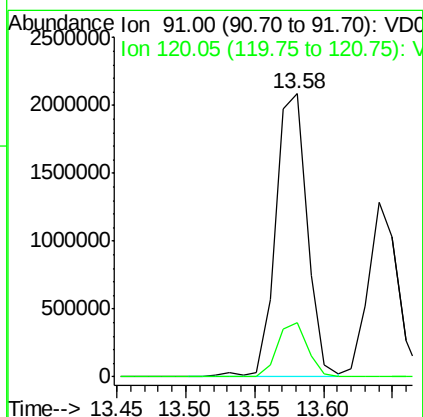
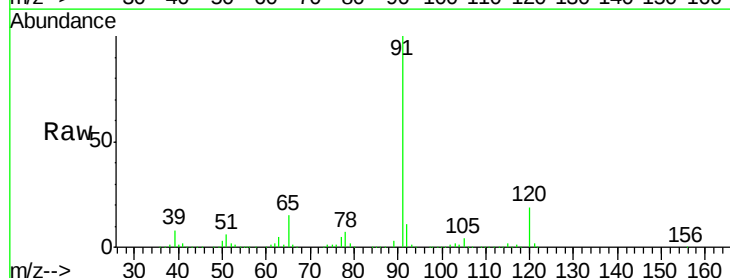
RT: 13.58 min Scan# 1275

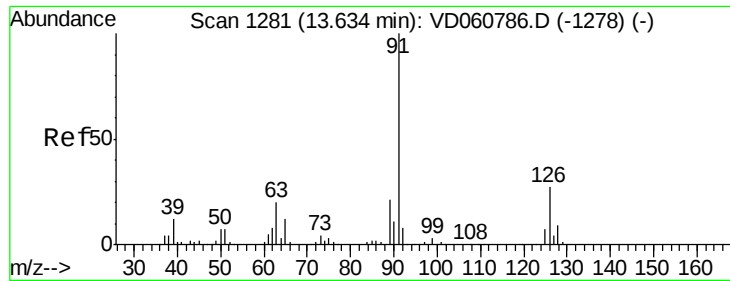
Delta R.T. 0.01 min

Lab File: VD060788.D

Acq: 23 Jan 2019 18:03

| Tgt Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 91      | 100  |       |       |       |
| 120     | 19.0 | 9.7   | 28.9  |       |





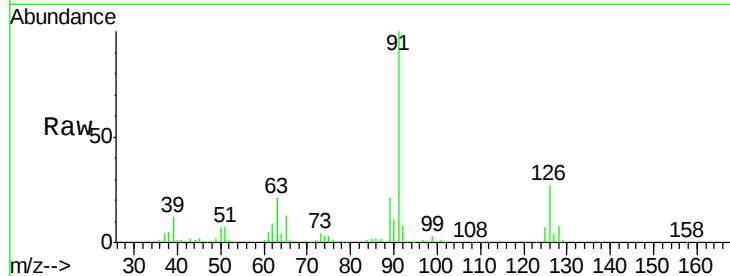
#79  
2-Chlorotoluene  
Concen: 102.563 ug/l  
RT: 13.64 min Scan# 1281  
Delta R.T. 0.01 min  
Lab File: VD060788.D  
Acq: 23 Jan 2019 18:03

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDIC100

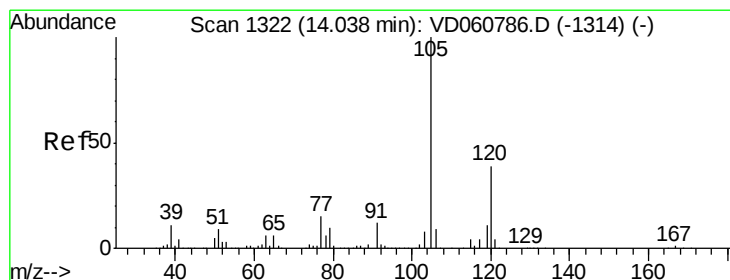
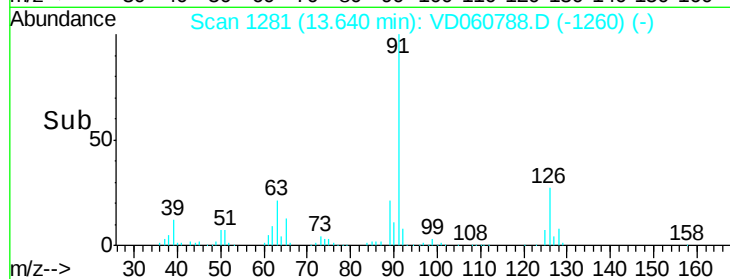
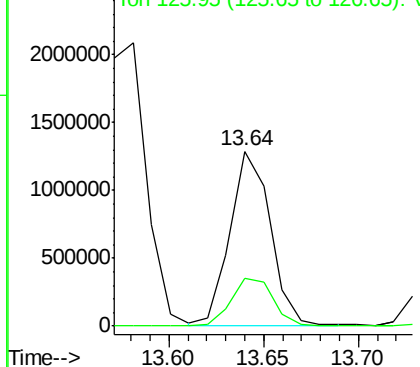
Tot Ion: 91 Resp: 1890172  
Ion Ratio Lower Upper  
91 100  
126 27.1 13.4 40.1

Manual Integrations  
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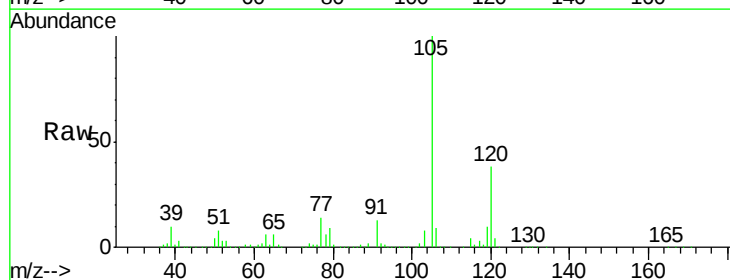


Abundance Ion 91.00 (90.70 to 91.70): VD060788.D (-1278) (-)  
Ion 125.95 (125.65 to 126.65): VD060788.D (-1278) (-)

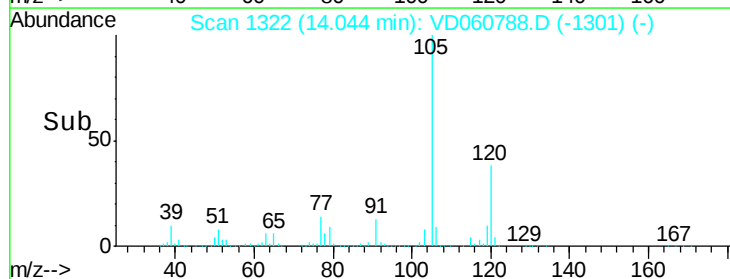
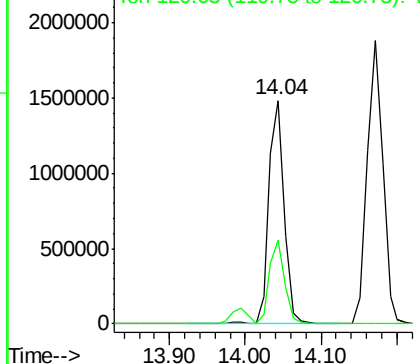


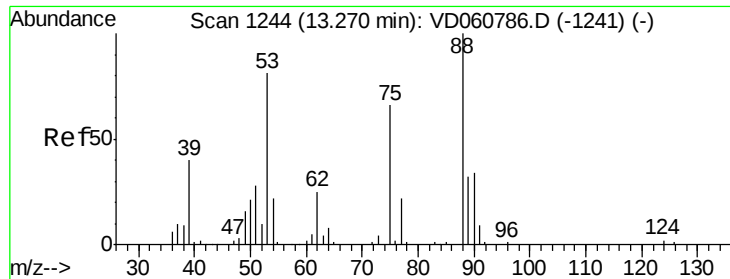
#80  
1,3,5-Trimethylbenzene  
Concen: 95.740 ug/l  
RT: 14.04 min Scan# 1322  
Delta R.T. 0.01 min  
Lab File: VD060788.D  
Acq: 23 Jan 2019 18:03

Tgt Ion: 105 Resp: 2077733  
Ion Ratio Lower Upper  
105 100  
120 37.5 19.5 58.5



Abundance Ion 105.05 (104.75 to 105.75): VD060788.D (-1314) (-)  
Ion 120.05 (119.75 to 120.75): VD060788.D (-1314) (-)





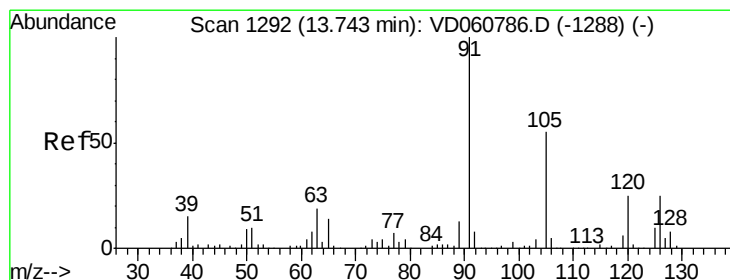
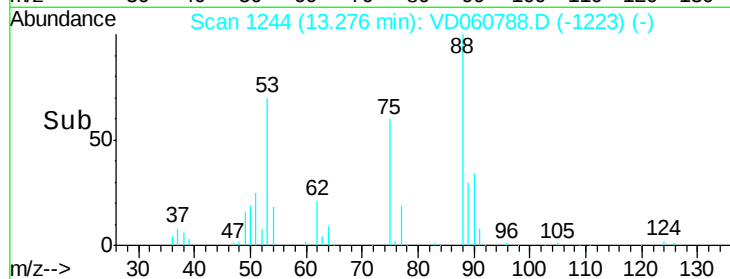
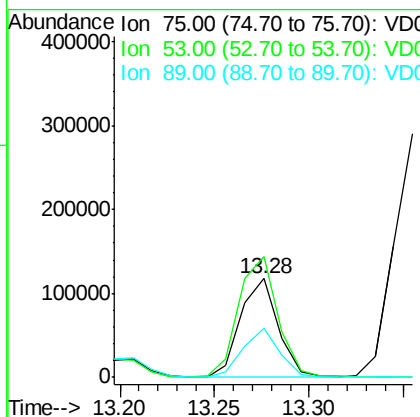
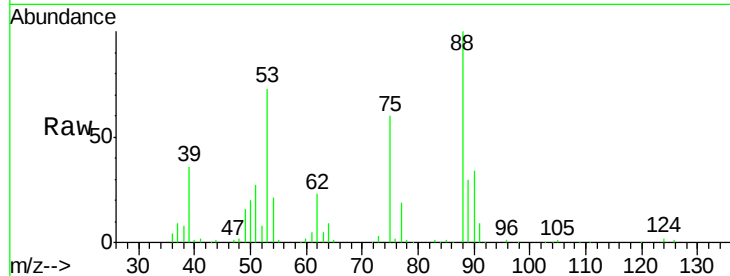
#81  
trans-1,4-Dichloro-2-butene  
Concen: 103.006 ug/l  
RT: 13.28 min Scan# 1244  
Delta R.T. 0.01 min  
Lab File: VD060788.D  
Acq: 23 Jan 2019 18:03

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDIC100

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 75      | 100   |      |       |       |
| 53      | 122.7 | 99.0 | 148.6 |       |
| 89      | 50.1  | 39.5 | 59.3  |       |

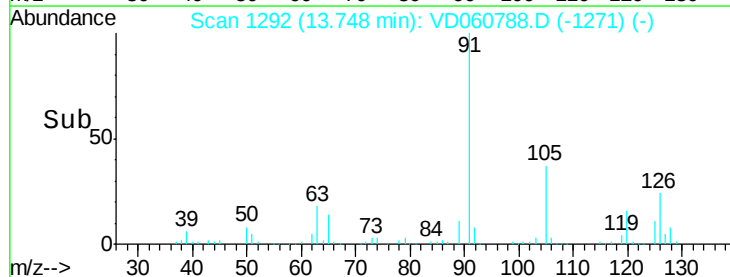
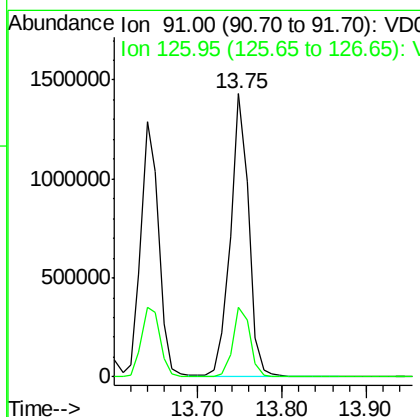
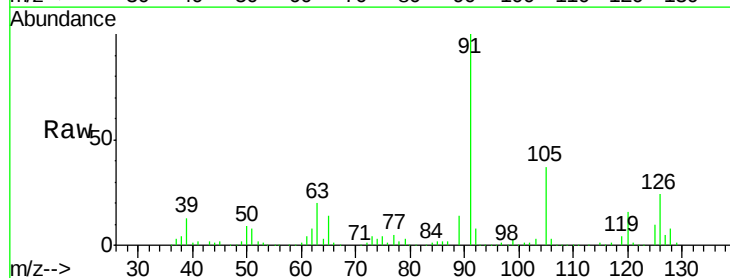
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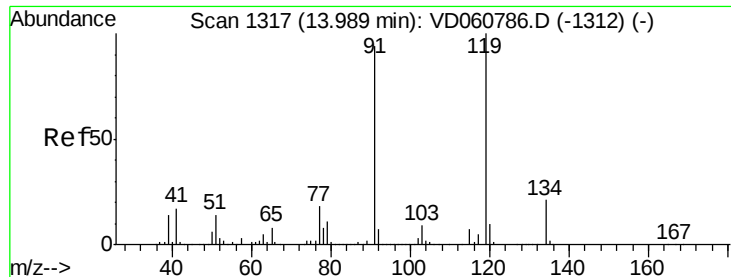
MMDadoda  
1/24/2019 12:50:08 PM



#82  
4-Chlorotoluene  
Concen: 100.535 ug/l  
RT: 13.75 min Scan# 1292  
Delta R.T. 0.01 min  
Lab File: VD060788.D  
Acq: 23 Jan 2019 18:03

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 91      | 100   |      |       |       |
| 126     | 24.4  | 12.5 | 37.5  |       |





#83

tert-Butylbenzene

Concen: 97.019 ug/l

RT: 13.99 min Scan# 1317

Delta R.T. 0.01 min

Lab File: VD060788.D

Acq: 23 Jan 2019 18:03

Instrument :

MSVOA\_D

ClientSampleId :

VSTDIC100

Tot Ion:119 Resp: 2165833

Ion Ratio Lower Upper

119 100

91 90.5 46.9 140.7

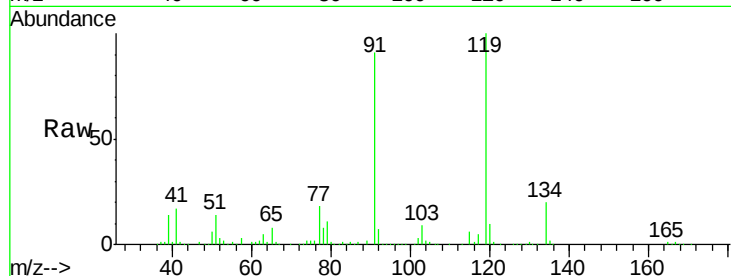
134 20.3 10.3 30.9

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Abundance Ion 119.05 (118.75 to 119.75): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V

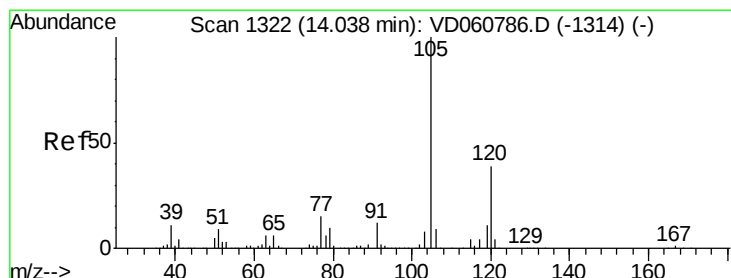
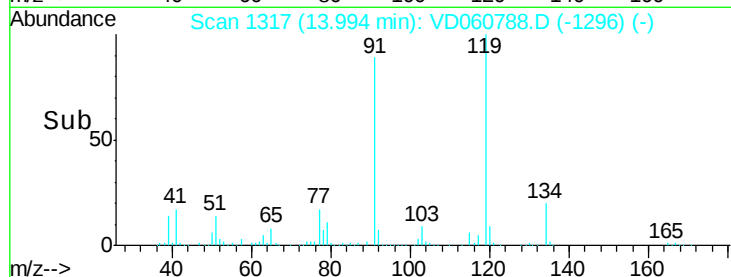
13.99

1000000

500000

0

Time-->



#84

1,2,4-Trimethylbenzene

Concen: 95.740 ug/l

RT: 14.04 min Scan# 1322

Delta R.T. 0.01 min

Lab File: VD060788.D

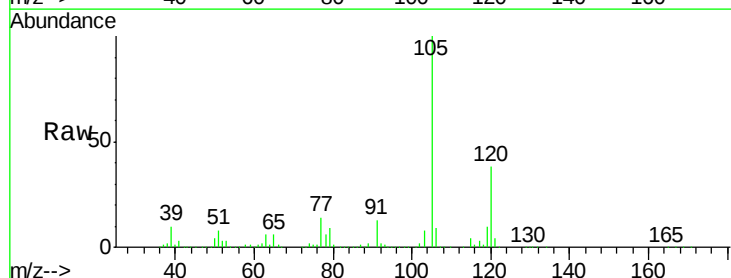
Acq: 23 Jan 2019 18:03

Tgt Ion:105 Resp: 2077733

Ion Ratio Lower Upper

105 100

120 37.5 19.5 58.5



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

2000000

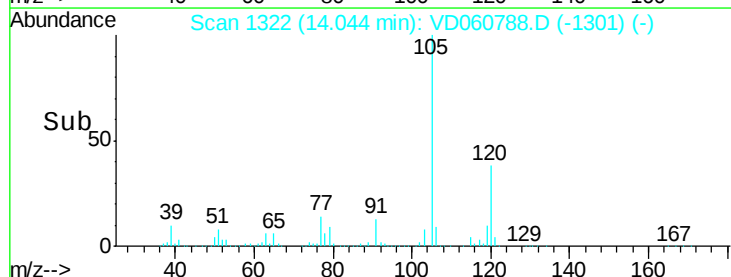
1500000

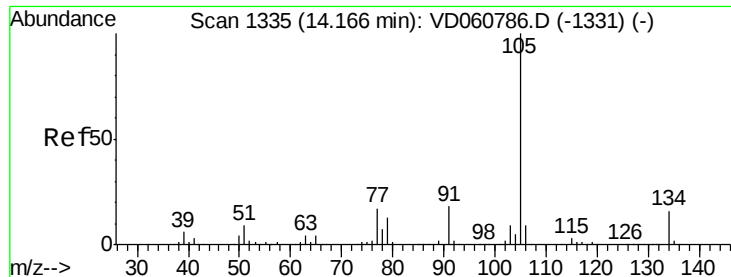
1000000

500000

0

Time-->





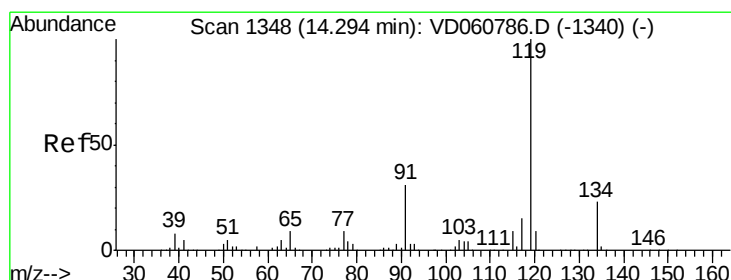
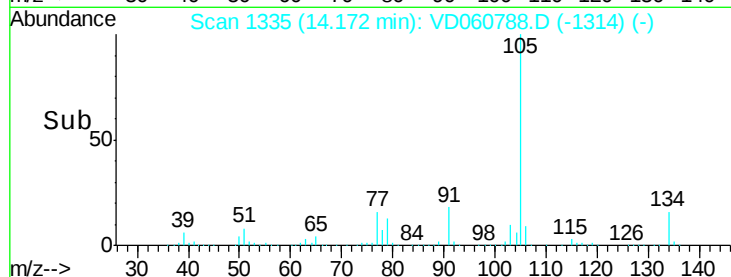
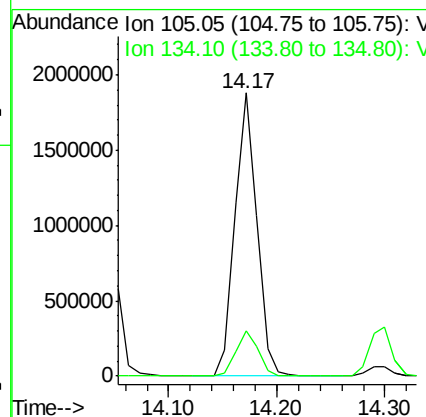
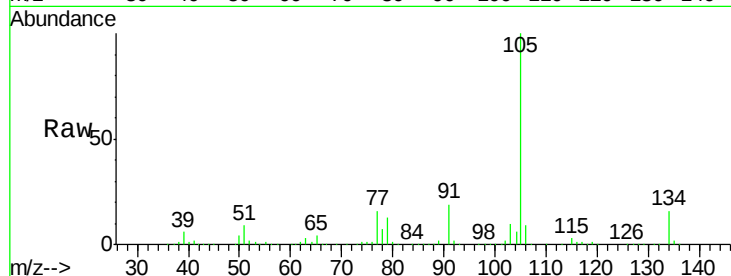
#85  
 sec-Butylbenzene  
 Concen: 97.670 ug/l  
 RT: 14.17 min Scan# 1335  
 Delta R.T. 0.01 min  
 Lab File: VD060788.D  
 Acq: 23 Jan 2019 18:03

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDIC100

Tot Ion:105 Resp: 2655642  
 Ion Ratio Lower Upper  
 105 100  
 134 16.0 8.1 24.1

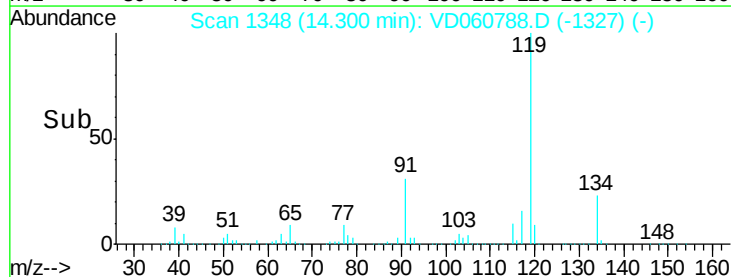
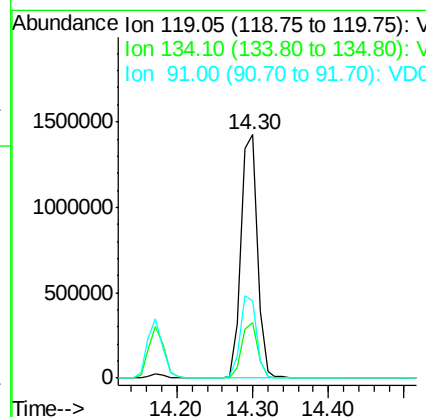
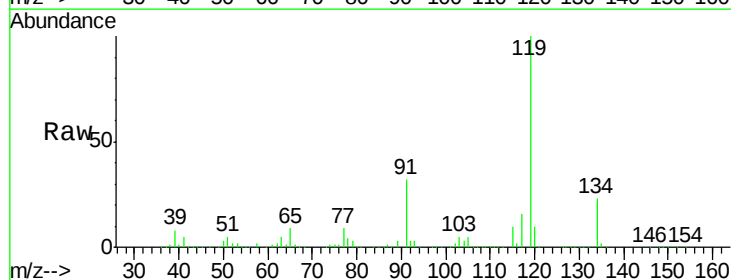
Manual Integrations  
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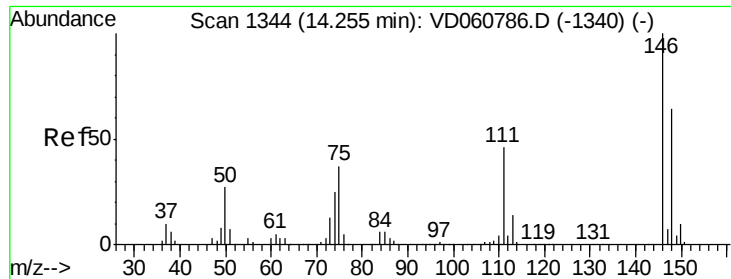
MMDadoda  
 1/24/2019 12:50:08 PM



#86  
 p-Isopropyltoluene  
 Concen: 93.954 ug/l  
 RT: 14.30 min Scan# 1348  
 Delta R.T. 0.01 min  
 Lab File: VD060788.D  
 Acq: 23 Jan 2019 18:03

Tgt Ion:119 Resp: 2101962  
 Ion Ratio Lower Upper  
 119 100  
 134 22.9 11.4 34.2  
 91 31.6 15.8 47.4





#87

1,3-Dichlorobenzene

Concen: 102.981 ug/l

RT: 14.26 min Scan# 1344

Delta R.T. 0.01 min

Lab File: VD060788.D

Acq: 23 Jan 2019 18:03

Instrument :

MSVOA\_D

ClientSampleId :

VSTDIC100

Tot Ion:146 Resp: 1173490

Ion Ratio Lower Upper

146 100

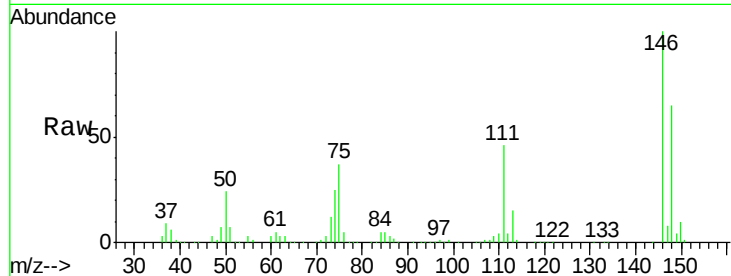
111 45.9 22.9 68.5

148 65.3 31.9 95.5

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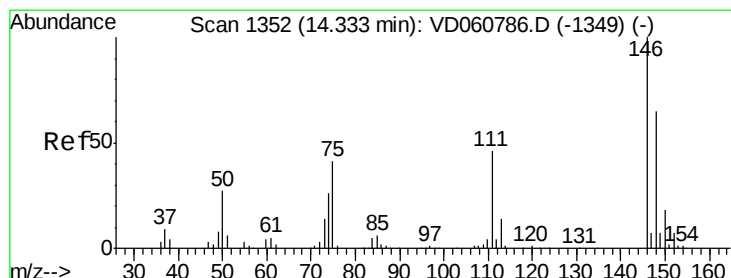
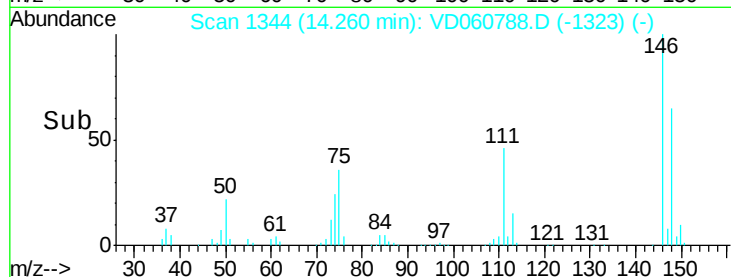
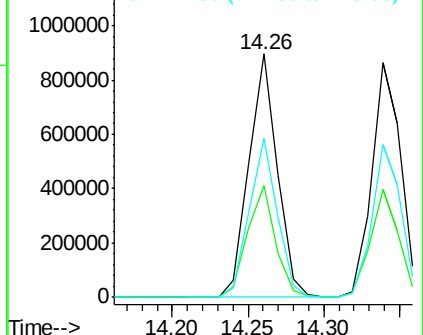
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Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#88

1,4-Dichlorobenzene

Concen: 99.920 ug/l

RT: 14.34 min Scan# 1352

Delta R.T. 0.01 min

Lab File: VD060788.D

Acq: 23 Jan 2019 18:03

Tgt Ion:146 Resp: 1165530

Ion Ratio Lower Upper

146 100

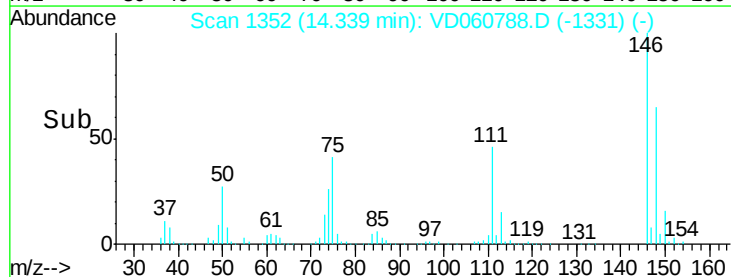
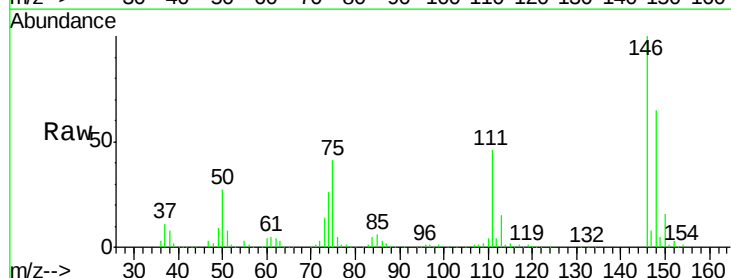
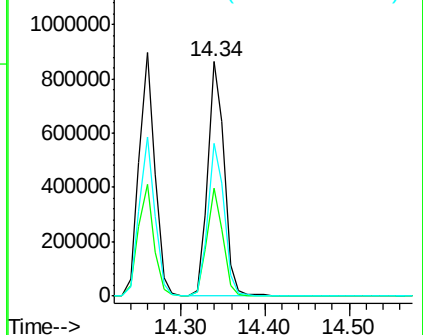
111 46.1 23.0 69.0

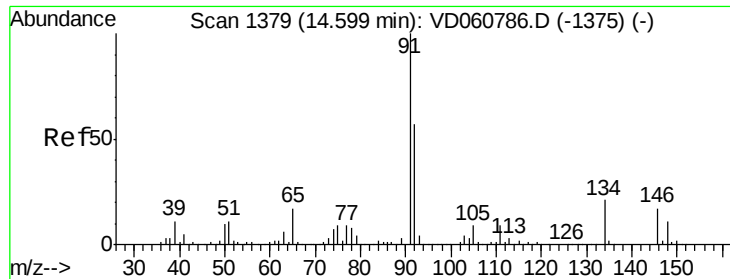
148 65.0 32.3 96.9

Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





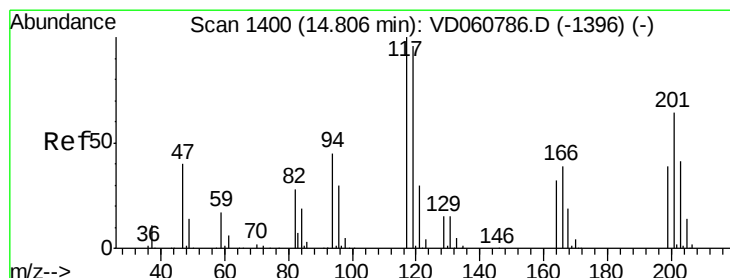
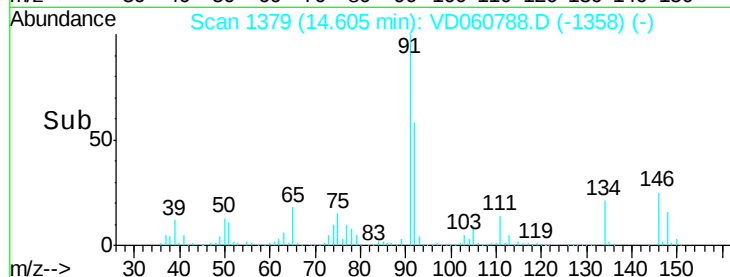
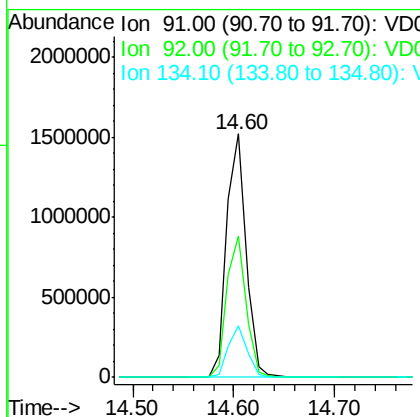
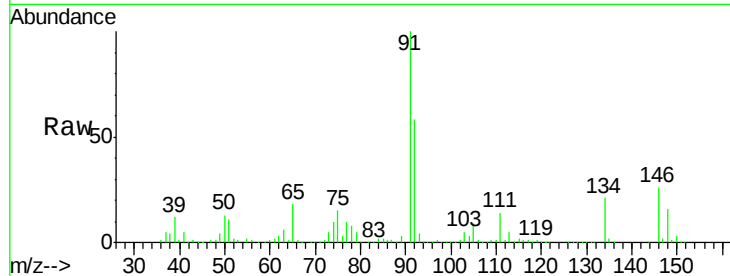
#89  
n-Butylbenzene  
Concen: 96.821 ug/l  
RT: 14.60 min Scan# 1379  
Delta R.T. 0.01 min  
Lab File: VD060788.D  
Acq: 23 Jan 2019 18:03

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDIC100

Tot Ion: 91 Resp: 2036515  
Ion Ratio Lower Upper  
91 100  
92 57.9 28.6 85.9  
134 21.5 10.4 31.1

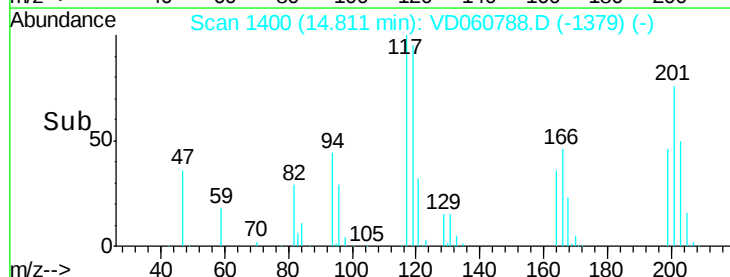
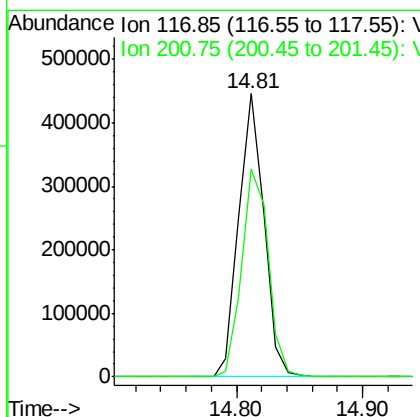
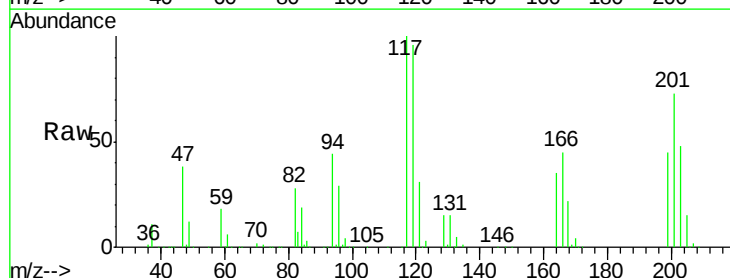
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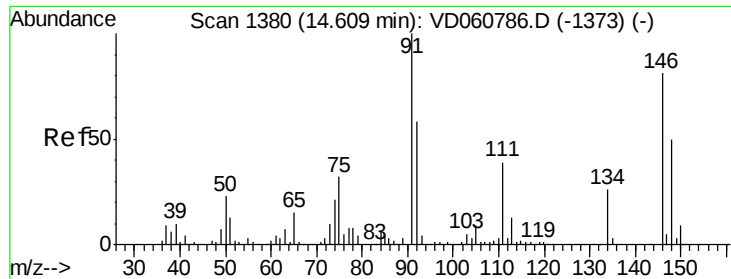
MMDadoda  
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#90  
Hexachloroethane  
Concen: 93.610 ug/l  
RT: 14.81 min Scan# 1400  
Delta R.T. 0.01 min  
Lab File: VD060788.D  
Acq: 23 Jan 2019 18:03

Tgt Ion: 117 Resp: 615349  
Ion Ratio Lower Upper  
117 100  
201 73.4 32.1 96.5





#91

1,2-Dichlorobenzene

Concen: 91.977 ug/l

RT: 14.61 min Scan# 1380

Delta R.T. 0.01 min

Lab File: VD060788.D

Acq: 23 Jan 2019 18:03

Instrument :

MSVOA\_D

ClientSampleId :

VSTDIC100

Tot Ion:146 Resp: 866518

Ion Ratio Lower Upper

146 100

111 46.5 23.8 71.2

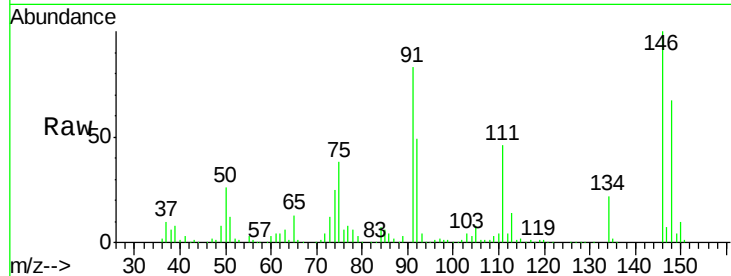
148 67.0 30.6 92.0

Manual Integrations

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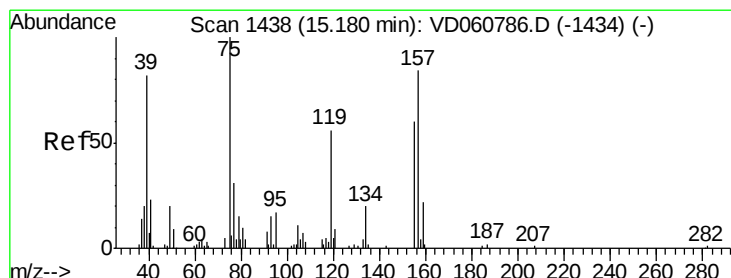
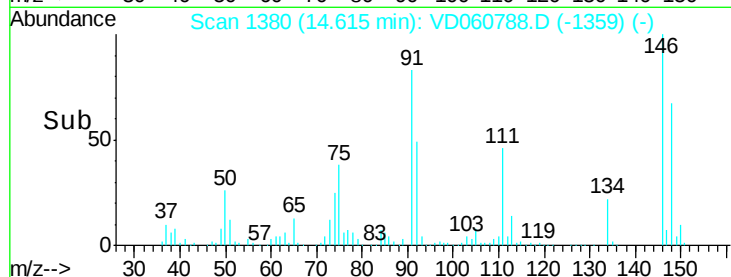
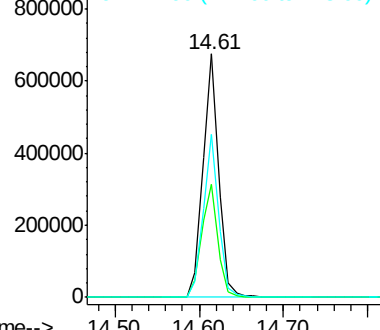
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Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 103.382 ug/l

RT: 15.19 min Scan# 1438

Delta R.T. 0.01 min

Lab File: VD060788.D

Acq: 23 Jan 2019 18:03

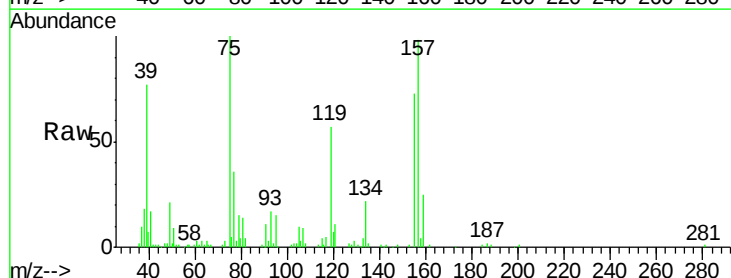
Tgt Ion: 75 Resp: 119088

Ion Ratio Lower Upper

75 100

155 72.7 30.0 90.0

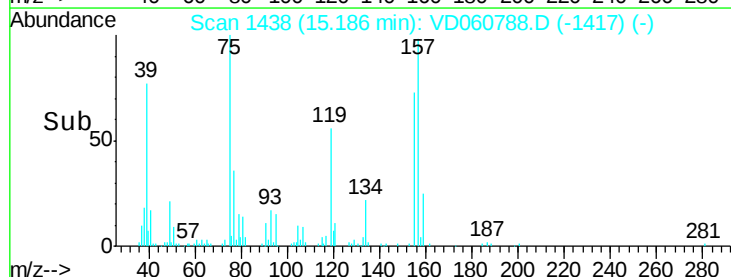
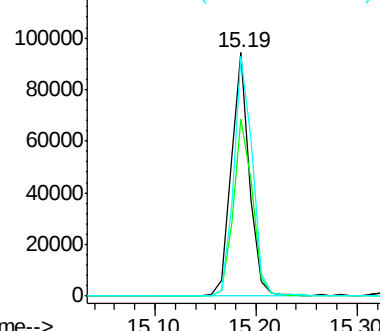
157 98.2 42.1 126.3

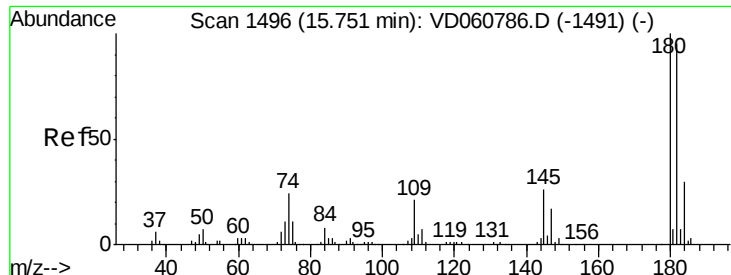


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 154.90 (154.60 to 155.60): V

Ion 156.85 (156.55 to 157.55): V





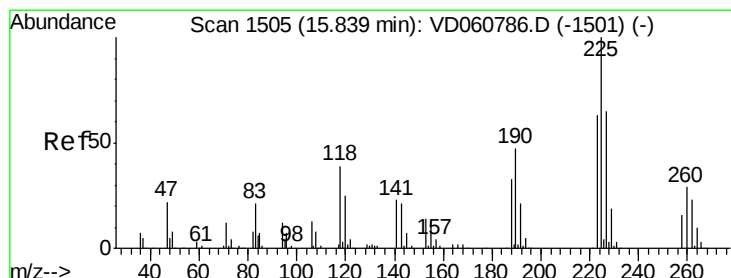
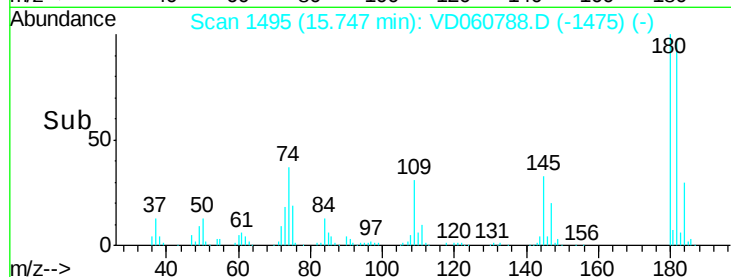
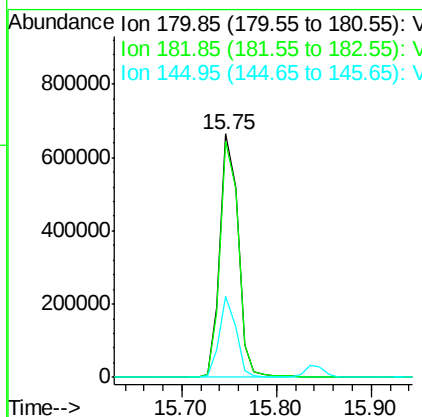
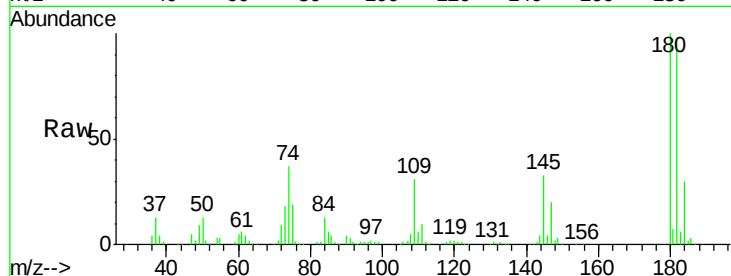
#93  
 1,2,4-Trichlorobenzene  
 Concen: 104.498 ug/l  
 RT: 15.75 min Scan# 1495  
 Delta R.T. -0.00 min  
 Lab File: VD060788.D  
 Acq: 23 Jan 2019 18:03

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDIC100

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 96.7  | 47.3  | 142.0 |
| 145     | 33.4  | 13.0  | 39.0  |

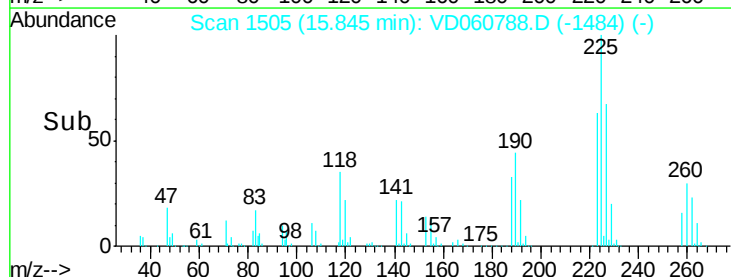
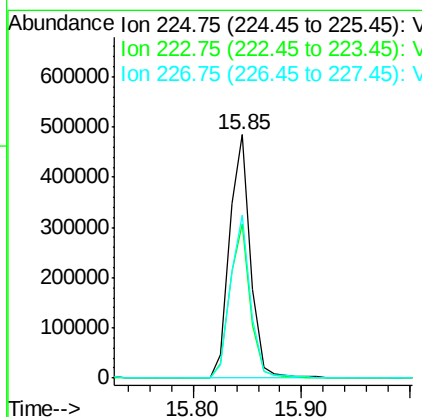
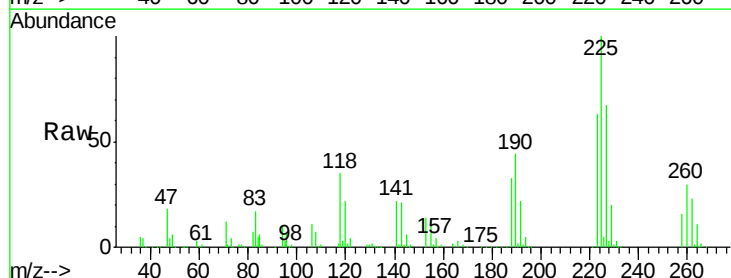
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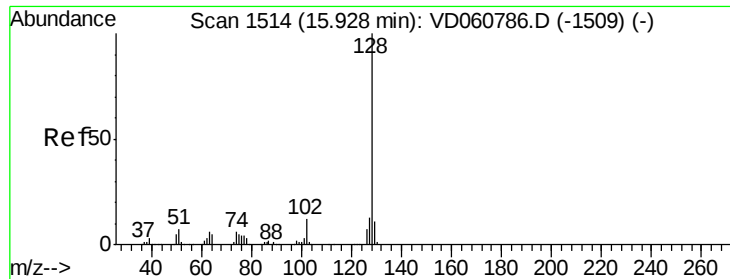
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#94  
 Hexachlorobutadiene  
 Concen: 100.664 ug/l  
 RT: 15.85 min Scan# 1505  
 Delta R.T. 0.01 min  
 Lab File: VD060788.D  
 Acq: 23 Jan 2019 18:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 63.2  | 31.6  | 94.8  |
| 227     | 66.7  | 32.6  | 97.7  |





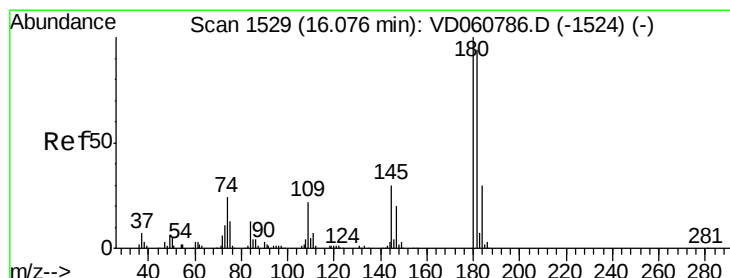
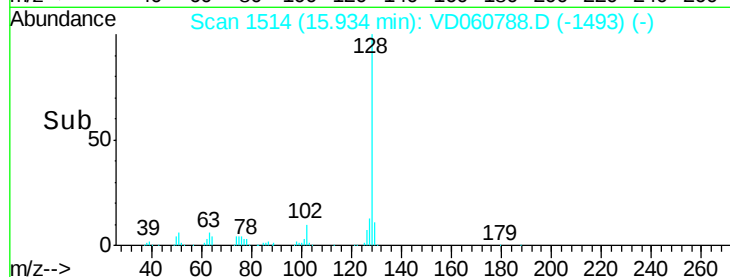
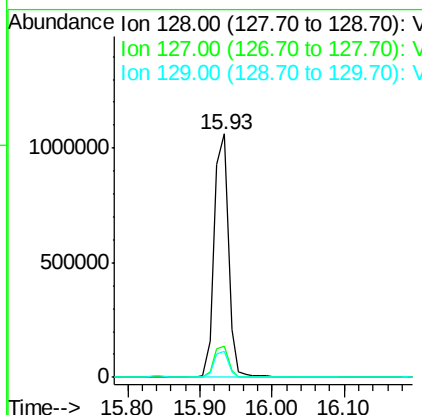
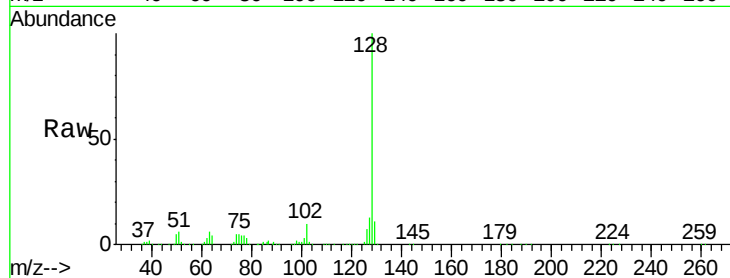
#95  
Naphthalene  
Concen: 110.742 ug/l  
RT: 15.93 min Scan# 1514  
Delta R.T. 0.01 min  
Lab File: VD060788.D  
Acq: 23 Jan 2019 18:03

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDIC100

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 12.9  | 10.4  | 15.6  |
| 129     | 10.8  | 8.7   | 13.1  |

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#96  
1,2,3-Trichlorobenzene  
Concen: 105.340 ug/l  
RT: 16.07 min Scan# 1528  
Delta R.T. -0.00 min  
Lab File: VD060788.D  
Acq: 23 Jan 2019 18:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 96.1  | 47.0  | 141.0 |
| 145     | 34.0  | 14.9  | 44.5  |

