

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD042420\  
 Data File : VD065677.D  
 Acq On : 24 Apr 2020 15:49  
 Operator : VA/SY  
 Sample : VSTDICV050  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Apr 24 16:11:33 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D042420S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Apr 24 14:44:29 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 222502   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 295530   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 271261   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 135779   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.33  | 65   | 92579    | 42.36 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 84.72% |          |
| 35) Dibromofluoromethane    | 7.91  | 113  | 89033    | 44.63 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 89.26% |          |
| 50) Toluene-d8              | 10.34 | 98   | 336234   | 47.02 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.04% |          |
| 62) 4-Bromofluorobenzene    | 12.64 | 95   | 111233   | 47.65 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.30% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units | Qvalue |
|-------------------------------|------|------|----------|---------|-------|--------|
| 2) Dichlorodifluoromethane    | 1.99 | 85   | 103582   | 51.919  | ug/l  | 99     |
| 3) Chloromethane              | 2.21 | 50   | 114020   | 46.896  | ug/l  | 100    |
| 4) Vinyl Chloride             | 2.35 | 62   | 128308   | 47.814  | ug/l  | 99     |
| 5) Bromomethane               | 2.77 | 94   | 73655    | 46.277  | ug/l  | 100    |
| 6) Chloroethane               | 2.93 | 64   | 73508    | 45.663  | ug/l  | 94     |
| 7) Trichlorofluoromethane     | 3.27 | 101  | 170736   | 46.227  | ug/l  | 100    |
| 8) Diethyl Ether              | 3.70 | 74   | 46611    | 42.857  | ug/l  | 100    |
| 9) 1,1,2-Trichlorotrifluoroet | 4.07 | 101  | 102768   | 46.892  | ug/l  | 100    |
| 10) Methyl Iodide             | 4.29 | 142  | 93660    | 48.698  | ug/l  | 97     |
| 11) Tert butyl alcohol        | 5.26 | 59   | 23801    | 234.340 | ug/l  | 100    |
| 12) 1,1-Dichloroethene        | 4.06 | 96   | 98220    | 45.329  | ug/l  | 98     |
| 13) Acrolein                  | 3.92 | 56   | 34479    | 216.880 | ug/l  | 99     |
| 14) Allyl chloride            | 4.71 | 41   | 163495   | 53.922  | ug/l  | 95     |
| 15) Acrylonitrile             | 5.43 | 53   | 100327   | 237.862 | ug/l  | 99     |
| 16) Acetone                   | 4.16 | 43   | 122717   | 292.741 | ug/l  | 99     |
| 17) Carbon Disulfide          | 4.39 | 76   | 298352   | 50.824  | ug/l  | 99     |
| 18) Methyl Acetate            | 4.72 | 43   | 52891    | 46.889  | ug/l  | 100    |
| 19) Methyl tert-butyl Ether   | 5.49 | 73   | 198997   | 50.780  | ug/l  | 99     |
| 20) Methylene Chloride        | 4.96 | 84   | 101583   | 46.734  | ug/l  | 95     |
| 21) trans-1,2-Dichloroethene  | 5.46 | 96   | 111236   | 52.025  | ug/l  | 97     |
| 22) Diisopropyl ether         | 6.37 | 45   | 318994   | 50.436  | ug/l  | 97     |
| 23) Vinyl Acetate             | 6.31 | 43   | 880644   | 229.645 | ug/l  | 98     |
| 24) 1,1-Dichloroethane        | 6.26 | 63   | 189271   | 47.563  | ug/l  | 99     |
| 25) 2-Butanone                | 7.22 | 43   | 140407   | 241.621 | ug/l  | 97     |
| 26) 2,2-Dichloropropane       | 7.20 | 77   | 179082   | 48.685  | ug/l  | 98     |
| 27) cis-1,2-Dichloroethene    | 7.21 | 96   | 113123   | 48.912  | ug/l  | 99     |
| 28) Bromochloromethane        | 7.55 | 49   | 71601    | 44.921  | ug/l  | 98     |
| 29) Tetrahydrofuran           | 7.57 | 42   | 79986    | 226.048 | ug/l  | 98     |
| 30) Chloroform                | 7.71 | 83   | 193552   | 46.229  | ug/l  | 99     |
| 31) Cyclohexane               | 7.99 | 56   | 186491   | 49.254  | ug/l  | 99     |
| 32) 1,1,1-Trichloroethane     | 7.90 | 97   | 182921   | 47.771  | ug/l  | 99     |
| 36) 1,1-Dichloropropene       | 8.11 | 75   | 161295   | 50.993  | ug/l  | 99     |
| 37) Ethyl Acetate             | 7.30 | 43   | 58964    | 46.232  | ug/l  | 99     |
| 38) Carbon Tetrachloride      | 8.09 | 117  | 170164   | 48.124  | ug/l  | 97     |

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 Quant Title : SW846 8260  
 QLast Update : Fri Apr 24 14:44:29 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.36  | 83   | 188928   | 54.420  | ug/l   | 98       |
| 40) Benzene                    | 8.35  | 78   | 429889   | 49.258  | ug/l   | 100      |
| 41) Methacrylonitrile          | 7.53  | 41   | 33858    | 50.311  | ug/l # | 96       |
| 42) 1,2-Dichloroethane         | 8.43  | 62   | 124481   | 46.404  | ug/l   | 97       |
| 43) Isopropyl Acetate          | 8.46  | 43   | 109948   | 46.785  | ug/l   | 99       |
| 44) Trichloroethene            | 9.11  | 130  | 117814   | 48.770  | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 9.39  | 63   | 105010   | 47.774  | ug/l   | 99       |
| 46) Dibromomethane             | 9.48  | 93   | 53415    | 46.827  | ug/l   | 98       |
| 47) Bromodichloromethane       | 9.67  | 83   | 146683   | 47.350  | ug/l   | 100      |
| 48) Methyl methacrylate        | 9.46  | 41   | 54204    | 47.434  | ug/l   | 97       |
| 49) 1,4-Dioxane                | 9.47  | 88   | 11570    | 851.498 | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone       | 10.23 | 43   | 285078   | 235.115 | ug/l   | 98       |
| 52) Toluene                    | 10.41 | 92   | 276466   | 51.009  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 10.63 | 75   | 135317   | 49.131  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 10.09 | 75   | 161645   | 49.074  | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane      | 10.80 | 97   | 73170    | 46.295  | ug/l   | 96       |
| 56) Ethyl methacrylate         | 10.67 | 69   | 85374    | 44.441  | ug/l   | 93       |
| 57) 1,3-Dichloropropane        | 10.95 | 76   | 127448   | 47.729  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.94  | 63   | 204059   | 244.158 | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.99 | 43   | 206368   | 248.060 | ug/l   | 98       |
| 60) Dibromochloromethane       | 11.14 | 129  | 96982    | 45.678  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.25 | 107  | 70180    | 47.355  | ug/l   | 97       |
| 64) Tetrachloroethene          | 10.88 | 164  | 104547   | 50.604  | ug/l   | 97       |
| 65) Chlorobenzene              | 11.67 | 112  | 283676   | 49.025  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.75 | 131  | 108073   | 48.178  | ug/l   | 100      |
| 67) Ethyl Benzene              | 11.75 | 91   | 522965   | 53.091  | ug/l   | 96       |
| 68) m/p-Xylenes                | 11.86 | 106  | 412367   | 107.742 | ug/l   | 96       |
| 69) o-Xylene                   | 12.18 | 106  | 177158   | 53.878  | ug/l   | 94       |
| 70) Styrene                    | 12.20 | 104  | 315975   | 48.640  | ug/l   | 100      |
| 71) Bromoform                  | 12.37 | 173  | 57516    | 46.116  | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.48 | 105  | 491337   | 57.926  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.30 | 43   | 97937    | 50.539  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.74 | 83   | 75569    | 48.137  | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane     | 12.79 | 75   | 103193   | 94.486  | ug/l # | 100      |
| 77) Bromobenzene               | 12.77 | 156  | 116418   | 52.304  | ug/l   | 98       |
| 78) n-propylbenzene            | 12.83 | 91   | 598150   | 57.260  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.91 | 91   | 323613   | 54.328  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.97 | 105  | 415669   | 57.549  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.54 | 75   | 26284    | 51.736  | ug/l   | 95       |
| 82) 4-Chlorotoluene            | 13.01 | 91   | 344942   | 53.690  | ug/l   | 98       |
| 83) tert-Butylbenzene          | 13.23 | 119  | 345827   | 58.487  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene     | 13.28 | 105  | 410156   | 56.887  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.41 | 105  | 493548   | 57.670  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.53 | 119  | 457486   | 56.777  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene        | 13.53 | 146  | 226917   | 51.695  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.60 | 146  | 220604   | 50.379  | ug/l   | 100      |
| 89) n-Butylbenzene             | 13.86 | 91   | 422298   | 56.935  | ug/l   | 99       |
| 90) Hexachloroethane           | 14.12 | 117  | 88512    | 50.626  | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene        | 13.90 | 146  | 192635   | 51.054  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.52 | 75   | 11356    | 44.976  | ug/l   | 100      |

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Sample : VSTDICV050  
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ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

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Quant Title : SW846 8260  
QLast Update : Fri Apr 24 14:44:29 2020  
Response via : Initial Calibration

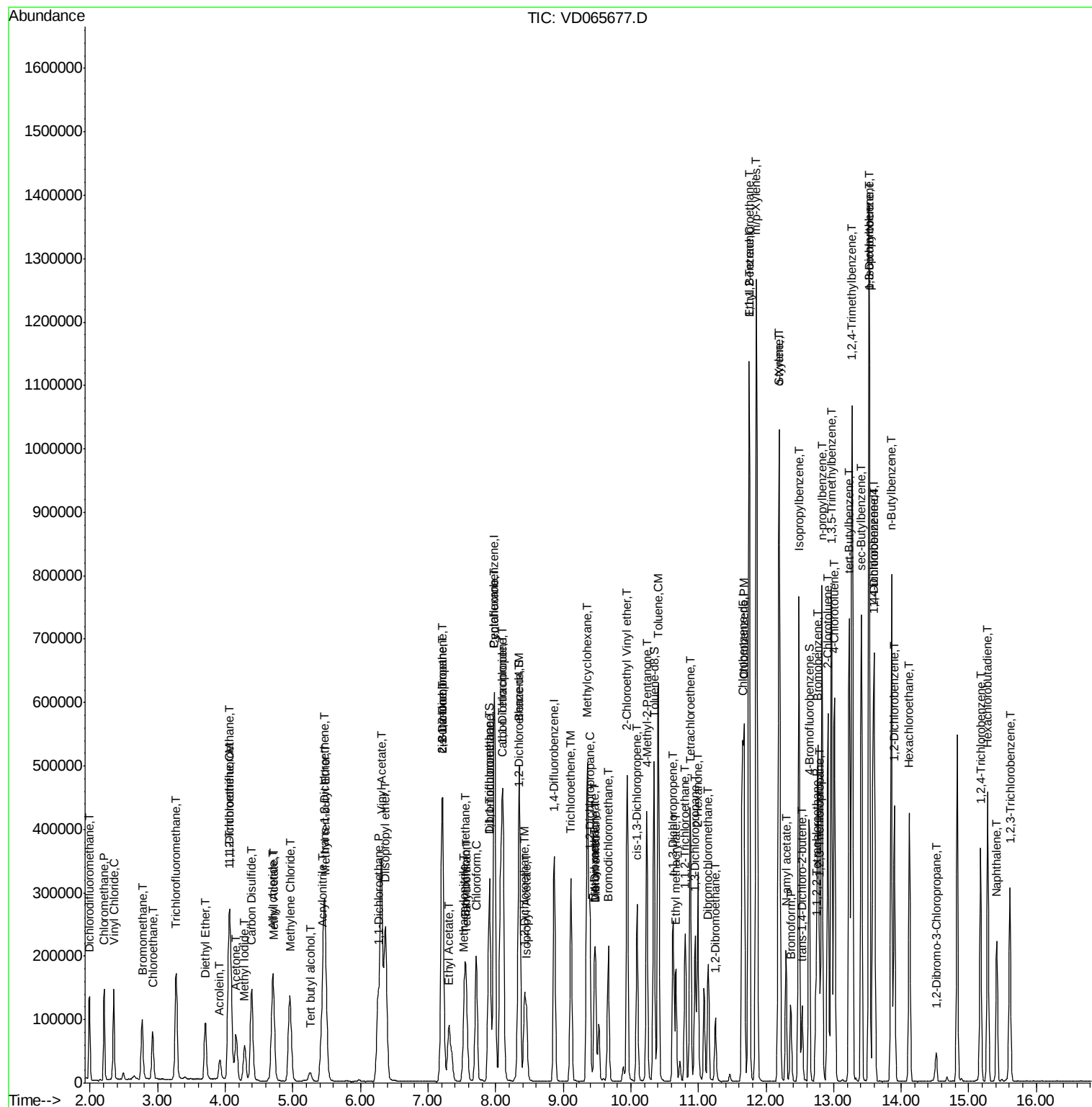
| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.17 | 180  | 127817   | 51.579 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 15.28 | 225  | 93204    | 51.331 | ug/l  | 99       |
| 95) Naphthalene            | 15.41 | 128  | 189284   | 45.380 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.61 | 180  | 111276   | 50.568 | ug/l  | 99       |

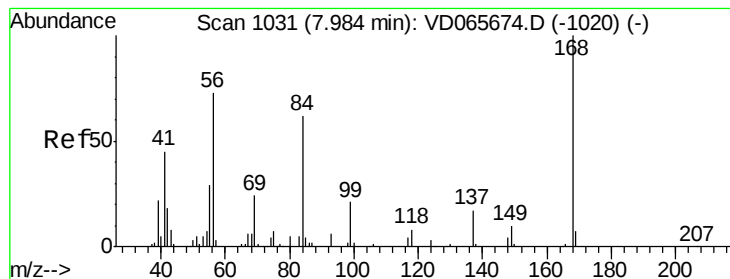
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD065677.D

Acq: 24 Apr 2020 15:49

Instrument :

MSVOA\_D

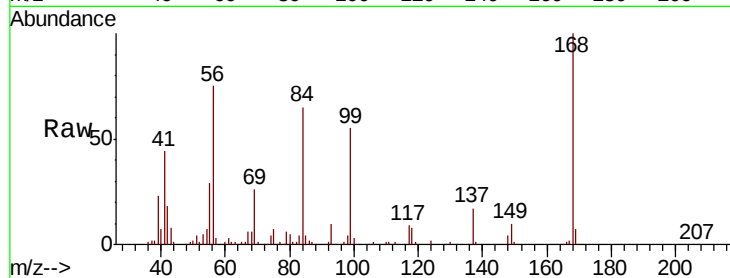
ClientSampleId :

Tot Ion:168 Resp: 222502

Ion Ratio Lower Upper

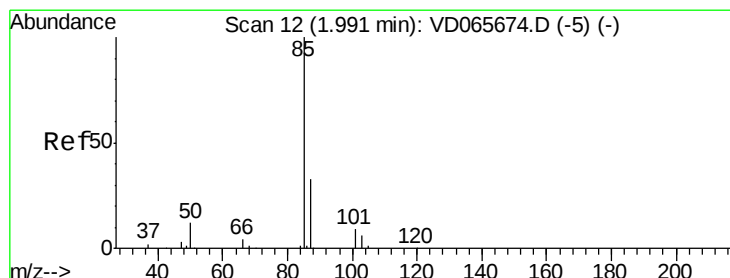
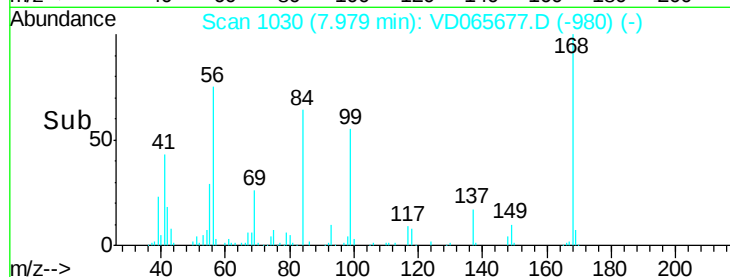
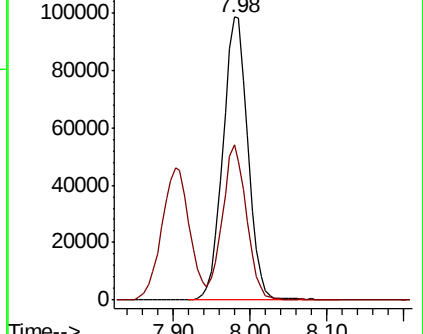
168 100

99 54.7 43.3 64.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#2

Dichlorodifluoromethane

Concen: 51.919 ug/l

RT: 1.99 min Scan# 12

Delta R.T. 0.00 min

Lab File: VD065677.D

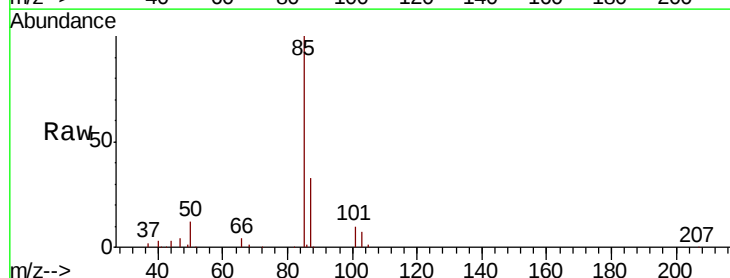
Acq: 24 Apr 2020 15:49

Tgt Ion: 85 Resp: 103582

Ion Ratio Lower Upper

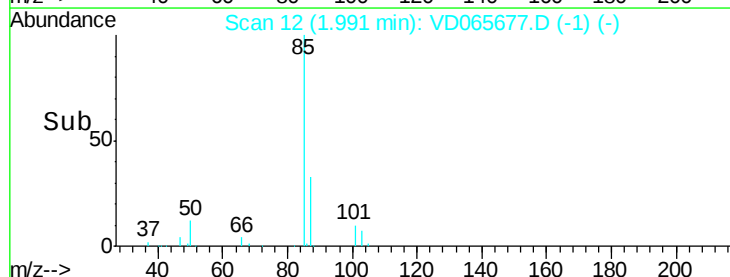
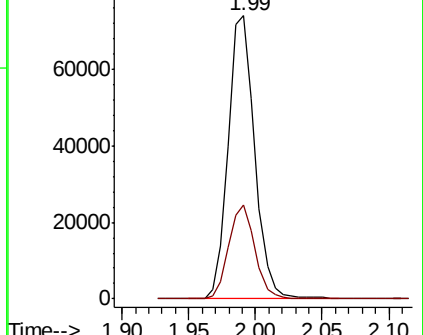
85 100

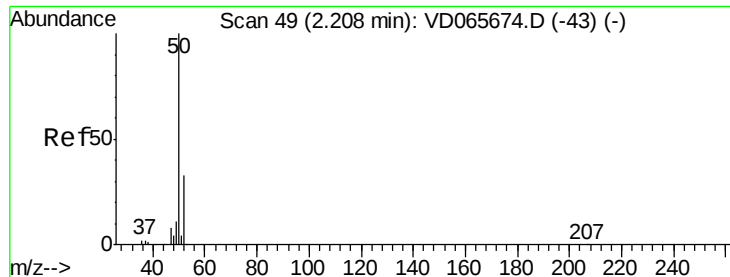
87 33.3 16.4 49.4



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 46.896 ug/l

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD065677.D

Acq: 24 Apr 2020 15:49

Instrument :

MSVOA\_D

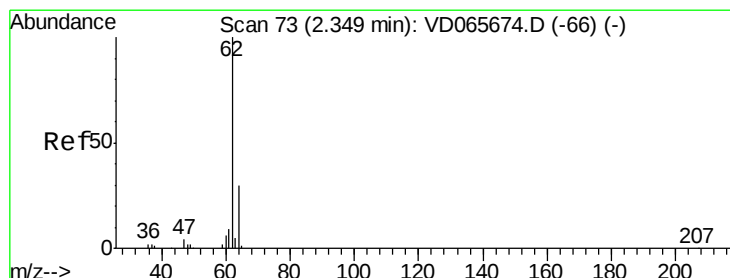
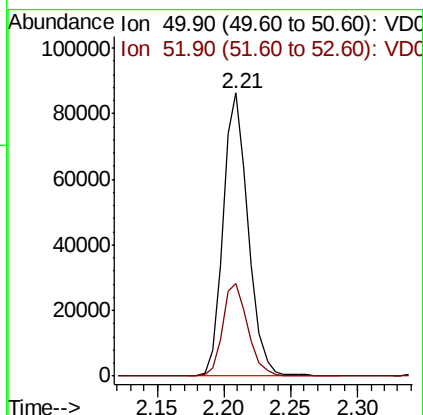
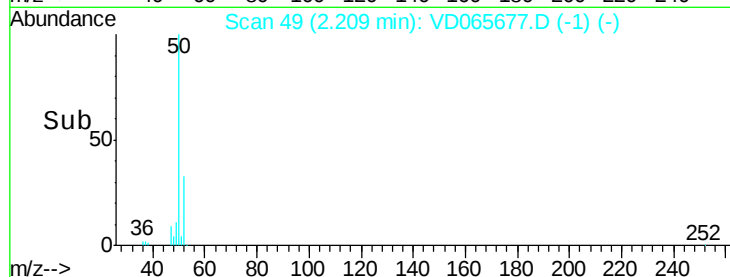
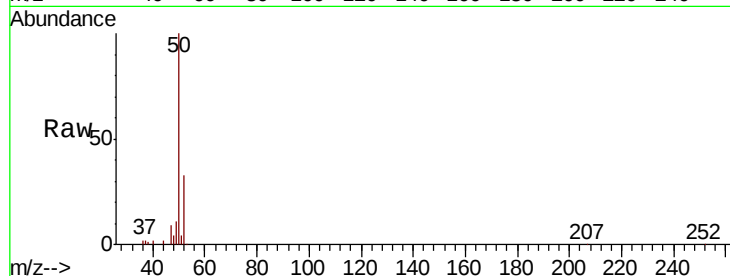
ClientSampleId :

Tot Ion: 50 Resp: 114020

Ion Ratio Lower Upper

50 100

52 32.9 26.5 39.7



#4

Vinyl Chloride

Concen: 47.814 ug/l

RT: 2.35 min Scan# 73

Delta R.T. 0.00 min

Lab File: VD065677.D

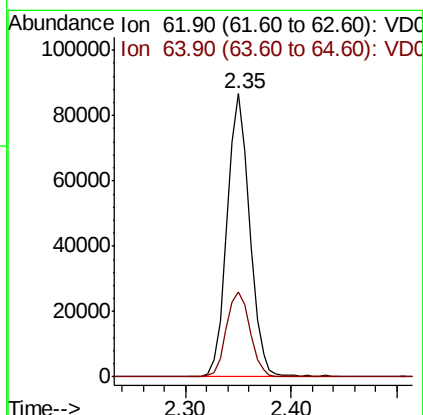
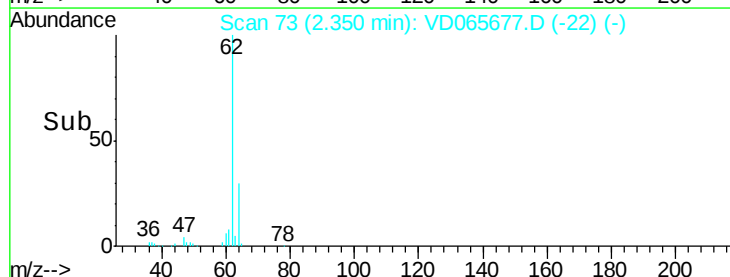
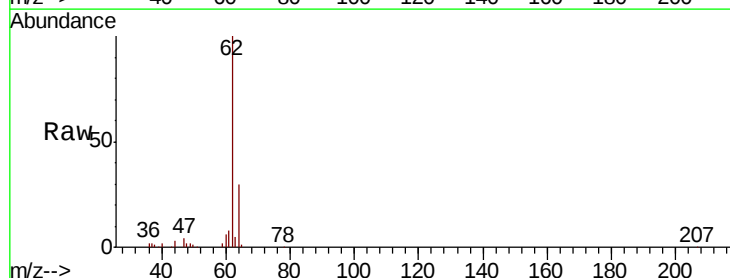
Acq: 24 Apr 2020 15:49

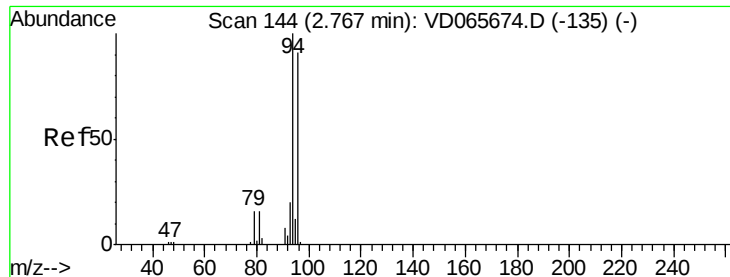
Tgt Ion: 62 Resp: 128308

Ion Ratio Lower Upper

62 100

64 30.0 24.3 36.5





#5

Bromomethane

Concen: 46.277 ug/l

RT: 2.77 min Scan# 145

Delta R.T. 0.01 min

Lab File: VD065677.D

Acq: 24 Apr 2020 15:49

Instrument :

MSVOA\_D

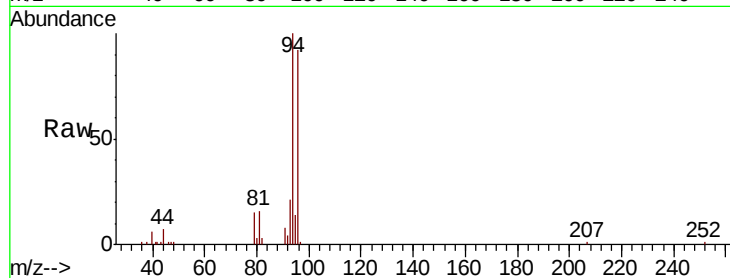
ClientSampleId :

Tot Ion: 94 Resp: 73655

Ion Ratio Lower Upper

94 100

96 91.1 73.0 109.4



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

2.77

30000

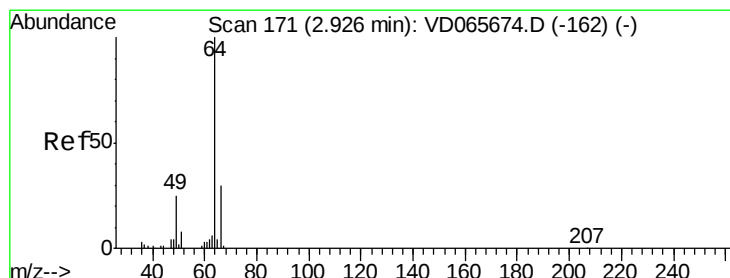
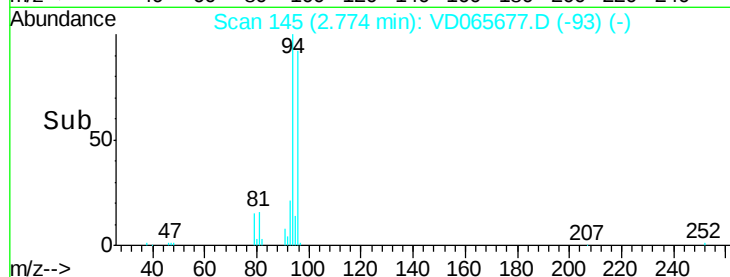
20000

10000

0

2.70 2.80 2.90

Time-->



#6

Chloroethane

Concen: 45.663 ug/l

RT: 2.93 min Scan# 171

Delta R.T. 0.00 min

Lab File: VD065677.D

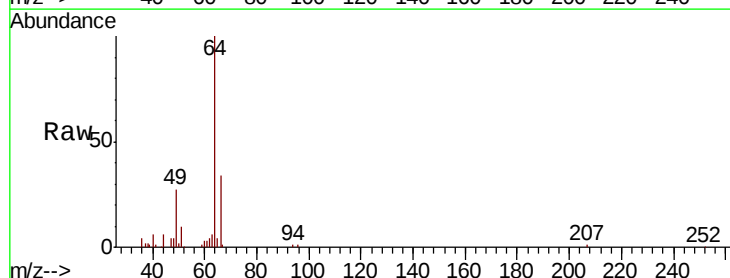
Acq: 24 Apr 2020 15:49

Tgt Ion: 64 Resp: 73508

Ion Ratio Lower Upper

64 100

66 33.6 24.3 36.5



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC

2.93

40000

30000

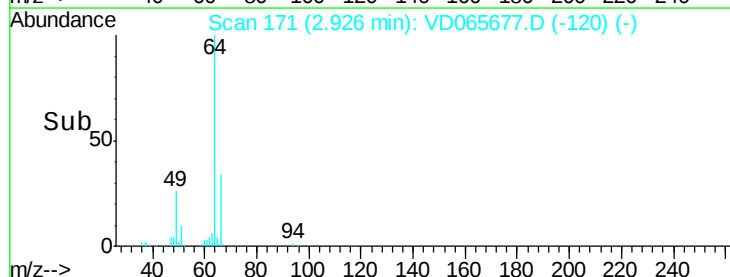
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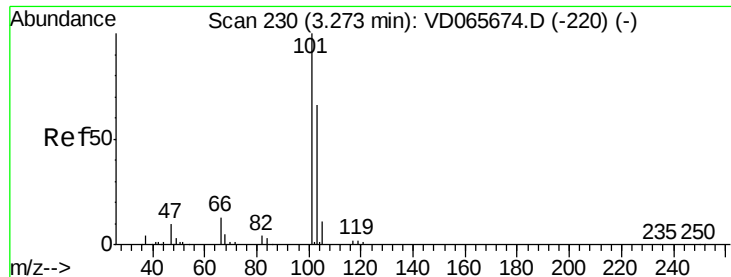
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0

2.85 2.90 2.95 3.00

Time-->



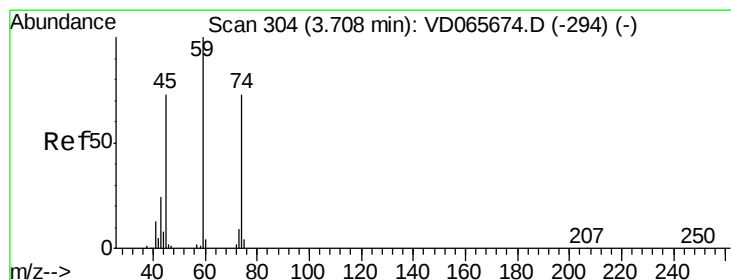
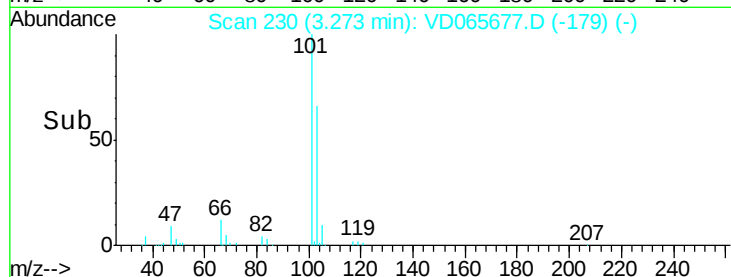
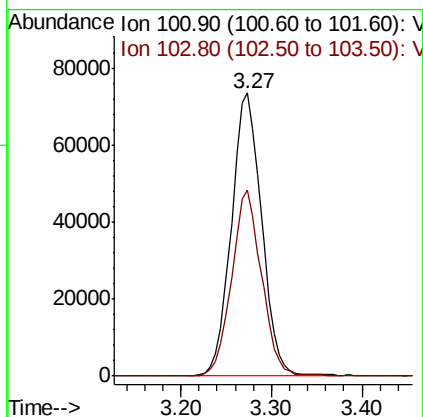
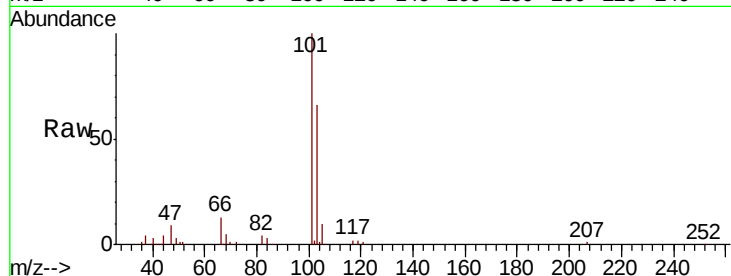


#7

Trichlorofluoromethane  
 Concen: 46.227 ug/l  
 RT: 3.27 min Scan# 230  
 Delta R.T. 0.00 min  
 Lab File: VD065677.D  
 Acq: 24 Apr 2020 15:49

Instrument :  
 MSVOA\_D  
 ClientSampled :

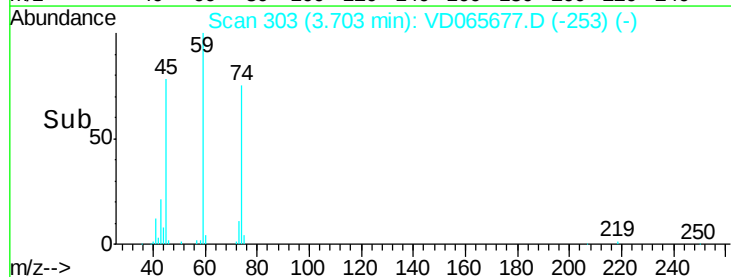
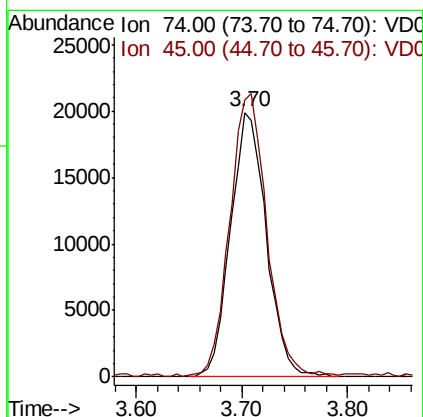
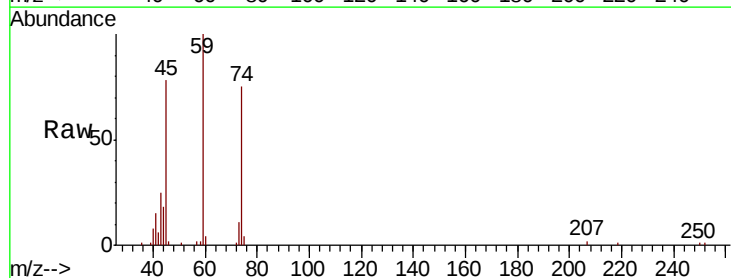
Tot Ion:101 Resp: 170736  
 Ion Ratio Lower Upper  
 101 100  
 103 66.0 52.6 78.8

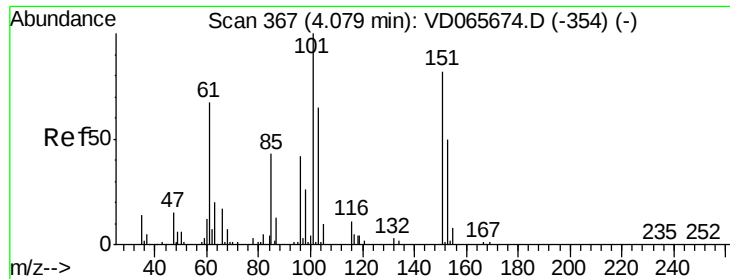


#8

Diethyl Ether  
 Concen: 42.857 ug/l  
 RT: 3.70 min Scan# 303  
 Delta R.T. -0.01 min  
 Lab File: VD065677.D  
 Acq: 24 Apr 2020 15:49

Tgt Ion: 74 Resp: 46611  
 Ion Ratio Lower Upper  
 74 100  
 45 110.4 55.0 165.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 46.892 ug/l

RT: 4.07 min Scan# 366

Delta R.T. -0.01 min

Lab File: VD065677.D

Acq: 24 Apr 2020 15:49

Instrument :

MSVOA\_D

ClientSampleId :

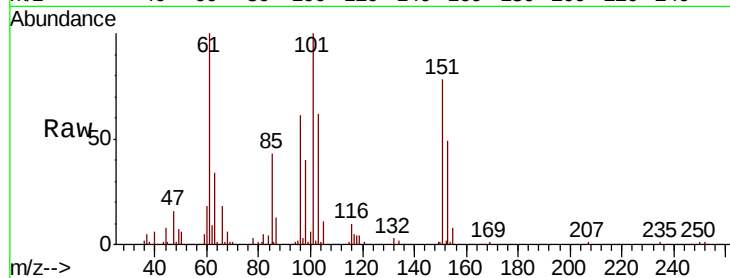
Tot Ion:101 Resp: 102768

Ion Ratio Lower Upper

101 100

85 43.6 35.1 52.7

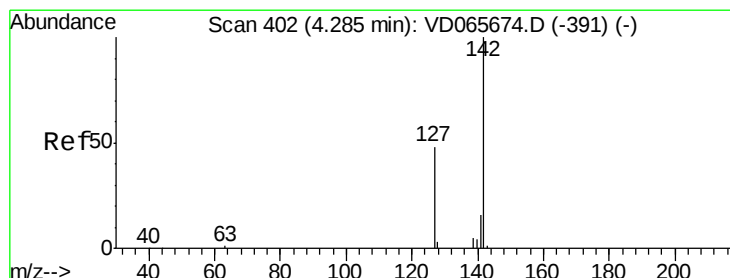
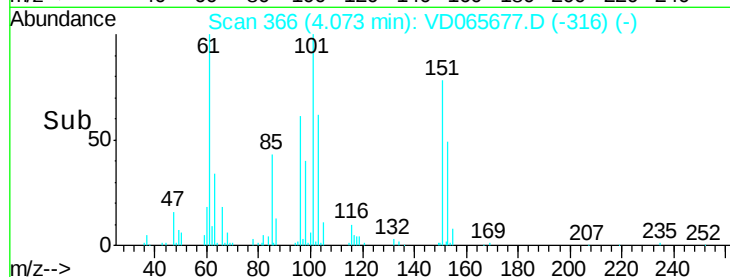
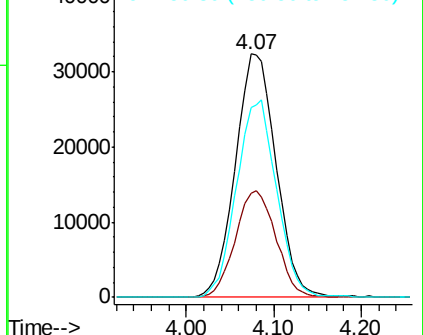
151 79.8 64.1 96.1



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): V

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 48.698 ug/l

RT: 4.29 min Scan# 403

Delta R.T. 0.01 min

Lab File: VD065677.D

Acq: 24 Apr 2020 15:49

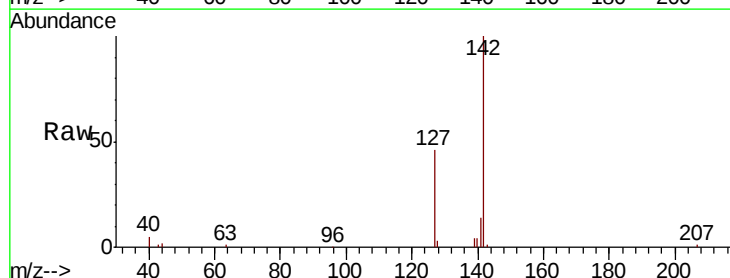
Tgt Ion:142 Resp: 93660

Ion Ratio Lower Upper

142 100

127 46.4 39.0 58.4

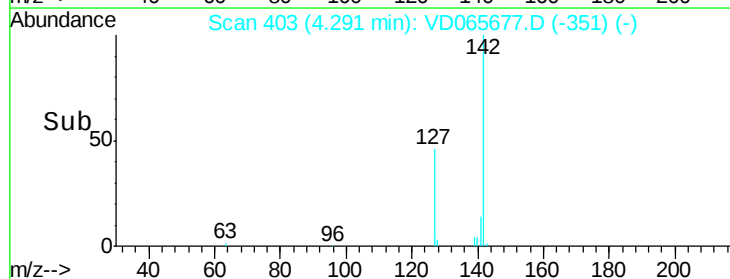
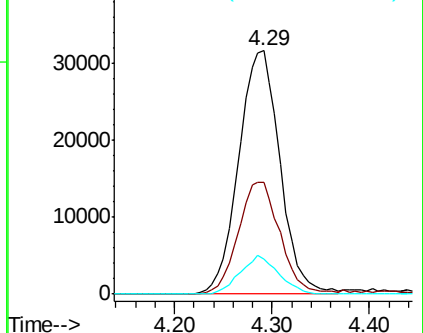
141 14.6 12.4 18.6

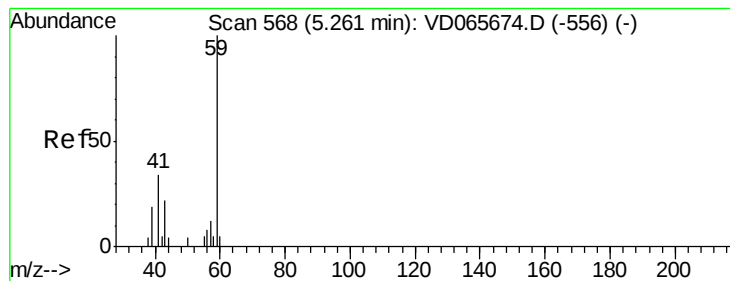


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



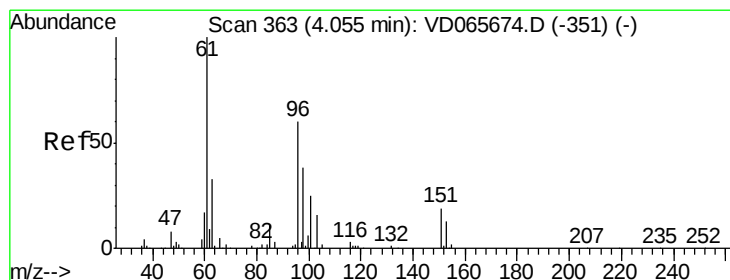
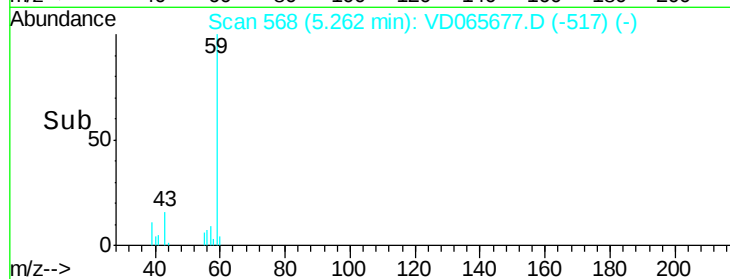
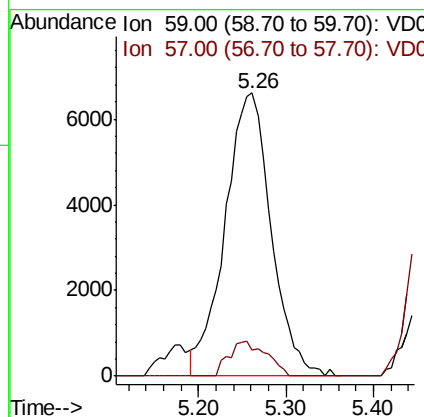
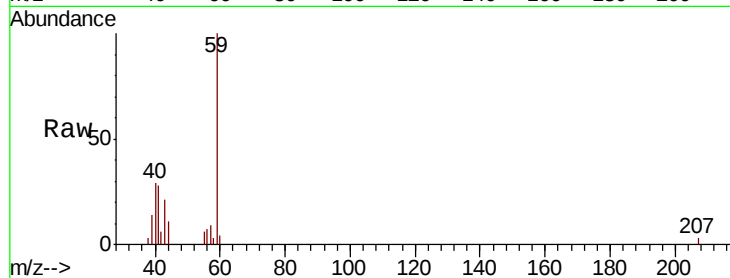


#11

Tert butyl alcohol  
Concen: 234.340 ug/l  
RT: 5.26 min Scan# 568  
Delta R.T. 0.00 min  
Lab File: VD065677.D  
Acq: 24 Apr 2020 15:49

Instrument :  
MSVOA\_D  
ClientSampleId :

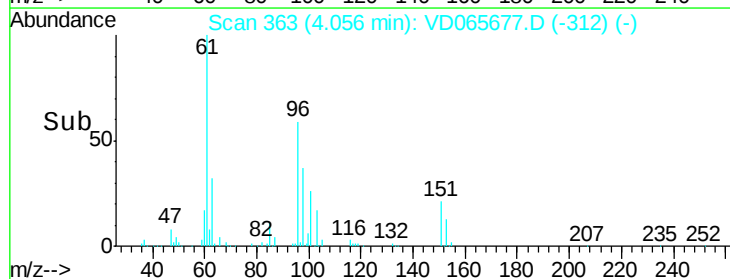
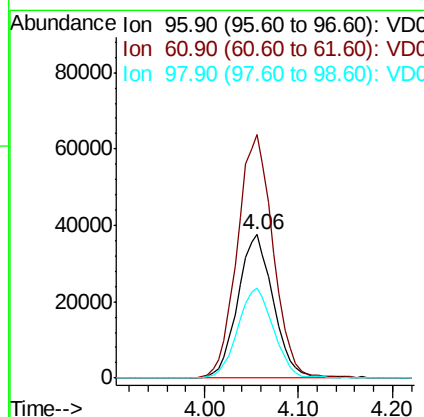
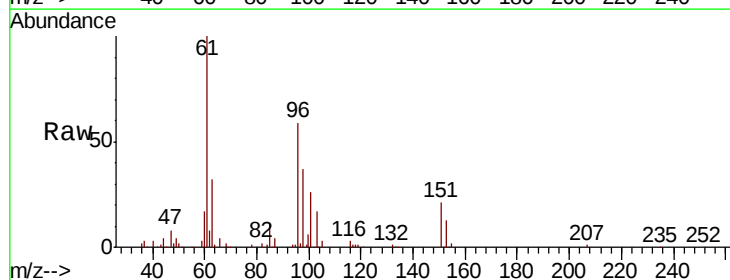
Tot Ion: 59 Resp: 23801  
Ion Ratio Lower Upper  
59 100  
57 10.0 8.0 12.0

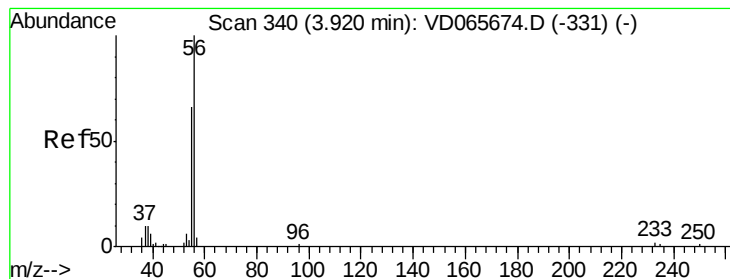


#12

1,1-Dichloroethene  
Concen: 45.329 ug/l  
RT: 4.06 min Scan# 363  
Delta R.T. 0.00 min  
Lab File: VD065677.D  
Acq: 24 Apr 2020 15:49

Tgt Ion: 96 Resp: 98220  
Ion Ratio Lower Upper  
96 100  
61 169.7 132.8 199.2  
98 62.5 50.7 76.1





#13

Acrolein

Concen: 216.880 ug/l

RT: 3.92 min Scan# 340

Delta R.T. 0.00 min

Lab File: VD065677.D

Acq: 24 Apr 2020 15:49

Instrument :

MSVOA\_D

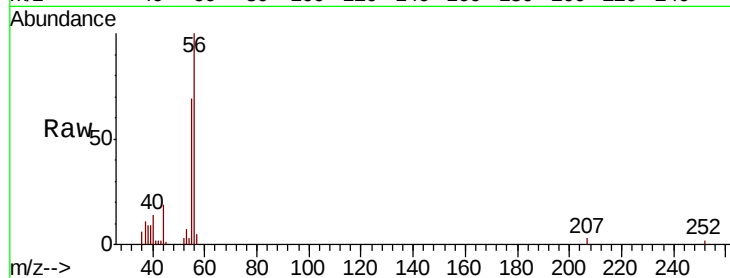
ClientSampled :

Tot Ion: 56 Resp: 34479

Ion Ratio Lower Upper

56 100

55 73.8 58.6 88.0



Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

15000

10000

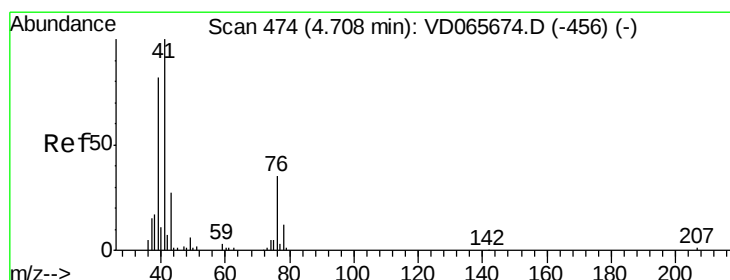
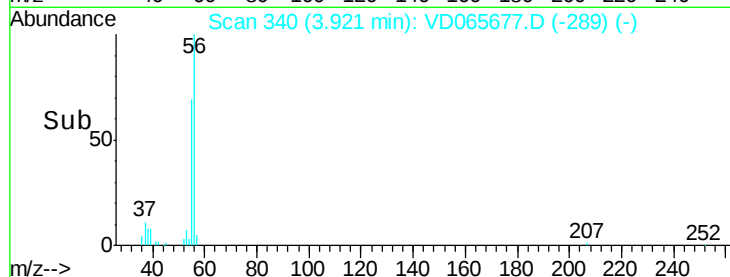
5000

0

3.92

3.80 3.90 4.00

Time-->



#14

Allyl chloride

Concen: 53.922 ug/l

RT: 4.71 min Scan# 474

Delta R.T. 0.00 min

Lab File: VD065677.D

Acq: 24 Apr 2020 15:49

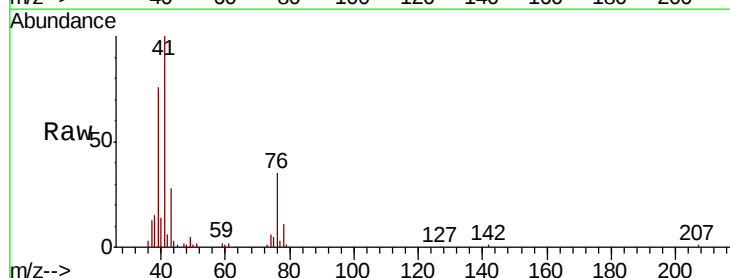
Tgt Ion: 41 Resp: 163495

Ion Ratio Lower Upper

41 100

39 73.1 63.3 94.9

76 33.5 27.8 41.8



Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 75.90 (75.60 to 76.60): VDC

60000

40000

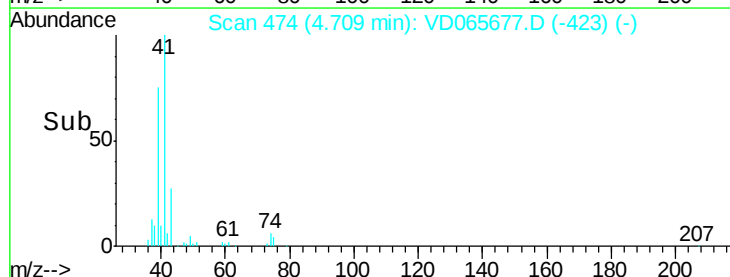
20000

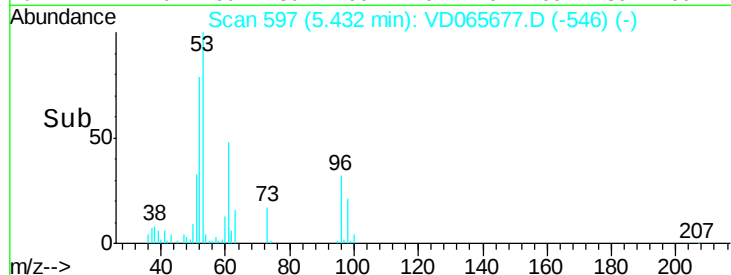
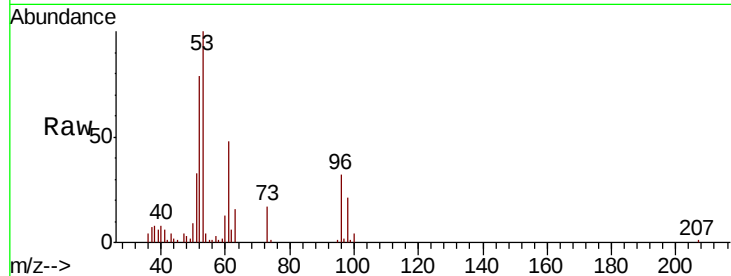
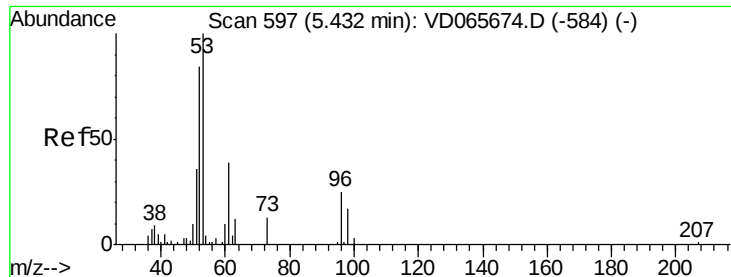
0

4.71

4.50 4.60 4.70 4.80 4.90

Time-->





#15

Acrylonitrile

Concen: 237.862 ug/l

RT: 5.43 min Scan# 597

Delta R.T. 0.00 min

Lab File: VD065677.D

Acq: 24 Apr 2020 15:49

Instrument :

MSVOA\_D

ClientSampleId :

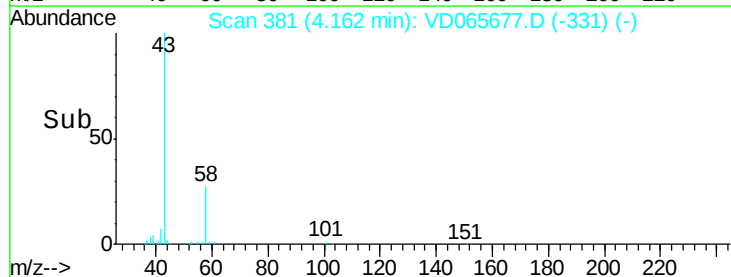
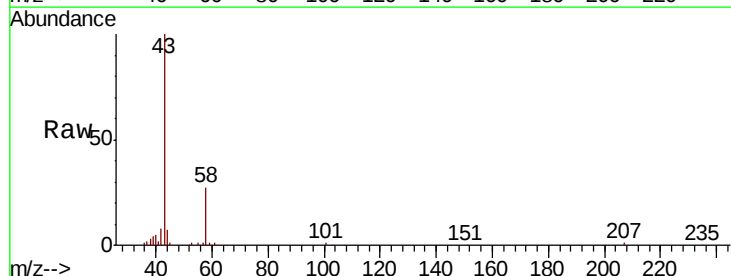
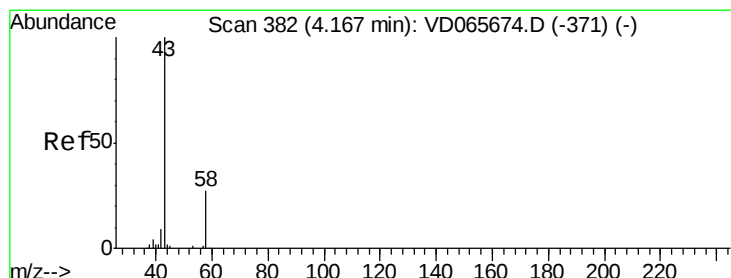
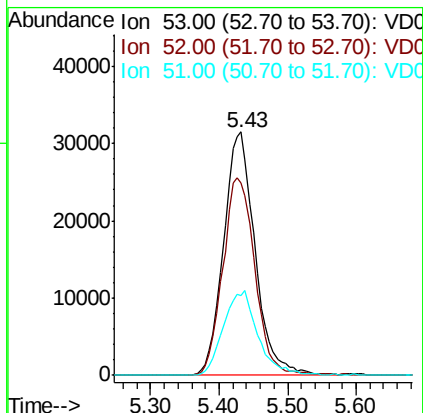
Tot Ion: 53 Resp: 100327

Ion Ratio Lower Upper

53 100

52 83.0 66.2 99.4

51 37.9 32.0 48.0



#16

Acetone

Concen: 292.741 ug/l

RT: 4.16 min Scan# 381

Delta R.T. -0.01 min

Lab File: VD065677.D

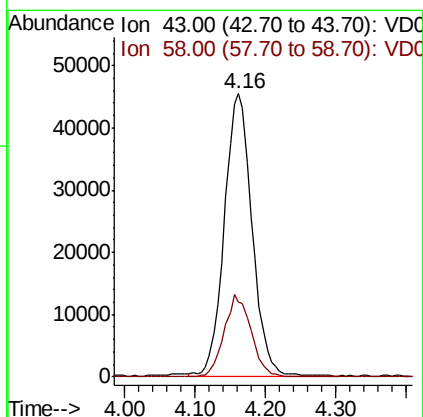
Acq: 24 Apr 2020 15:49

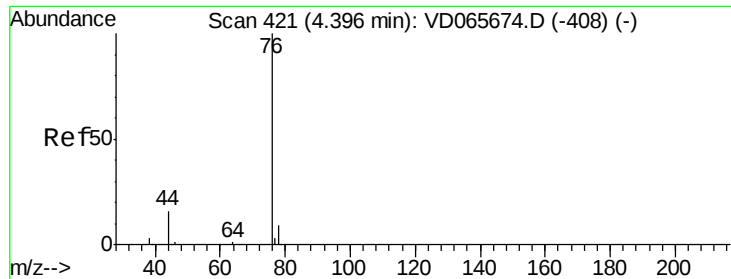
Tgt Ion: 43 Resp: 122717

Ion Ratio Lower Upper

43 100

58 26.7 21.0 31.6

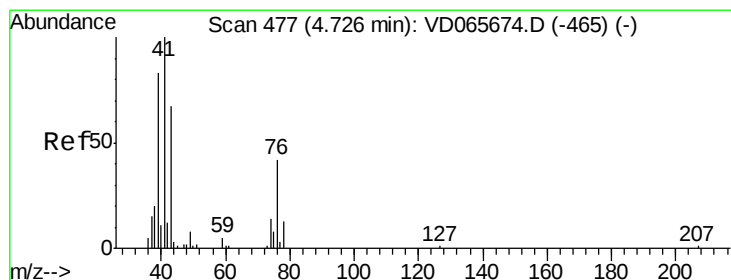
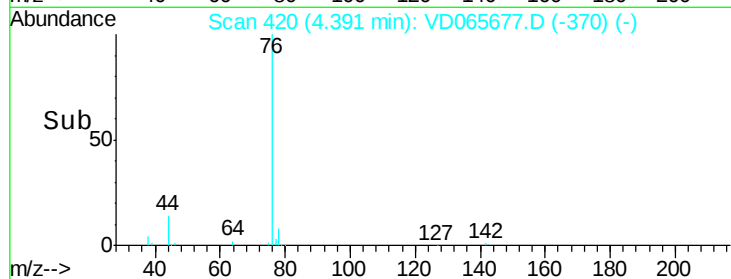
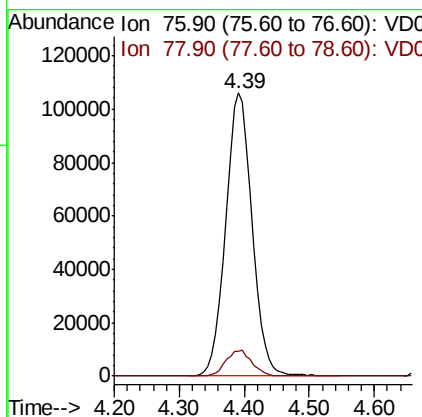
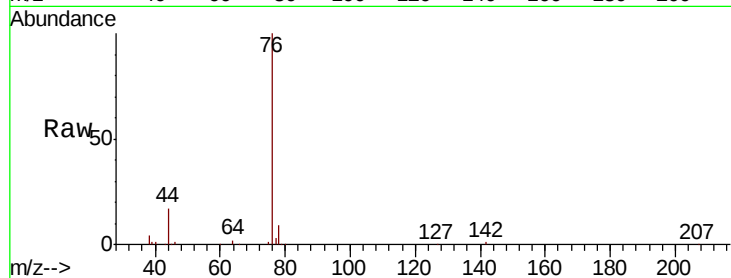




#17  
Carbon Disulfide  
Concen: 50.824 ug/l  
RT: 4.39 min Scan# 420  
Delta R.T. -0.01 min  
Lab File: VD065677.D  
Acq: 24 Apr 2020 15:49

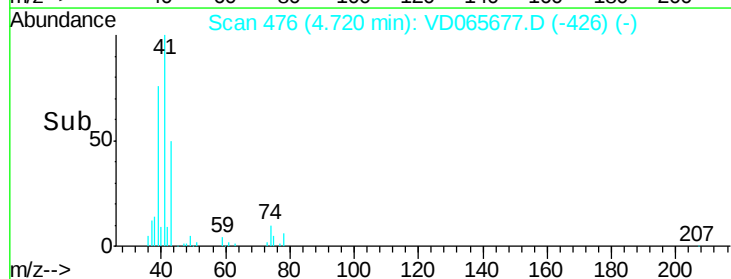
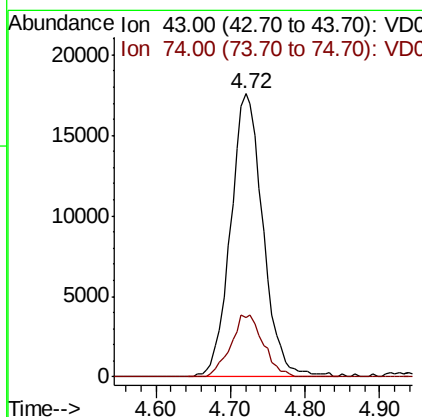
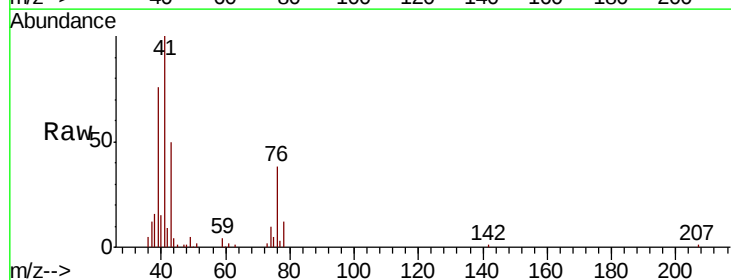
Instrument :  
MSVOA\_D  
ClientSampled :

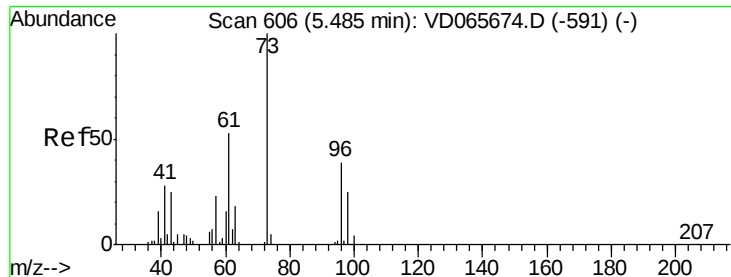
Tot Ion: 76 Resp: 298352  
Ion Ratio Lower Upper  
76 100  
78 8.9 7.4 11.0



#18  
Methyl Acetate  
Concen: 46.889 ug/l  
RT: 4.72 min Scan# 476  
Delta R.T. -0.01 min  
Lab File: VD065677.D  
Acq: 24 Apr 2020 15:49

Tgt Ion: 43 Resp: 52891  
Ion Ratio Lower Upper  
43 100  
74 22.0 17.5 26.3

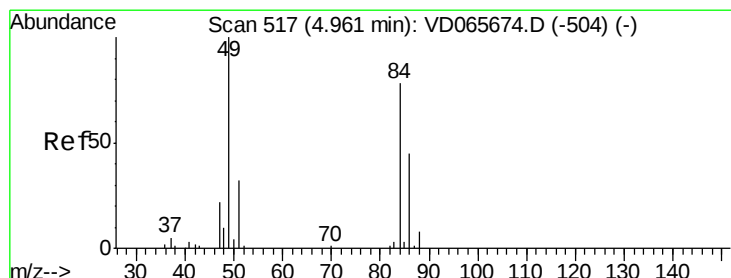
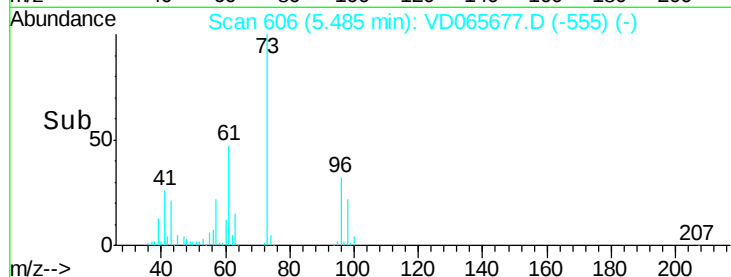
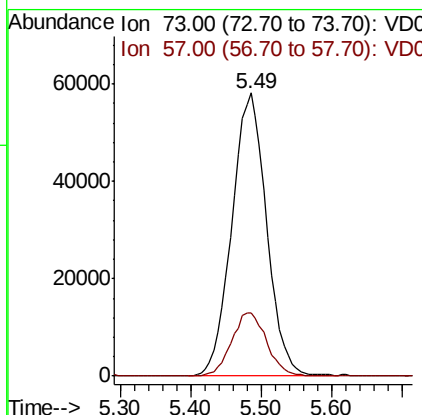
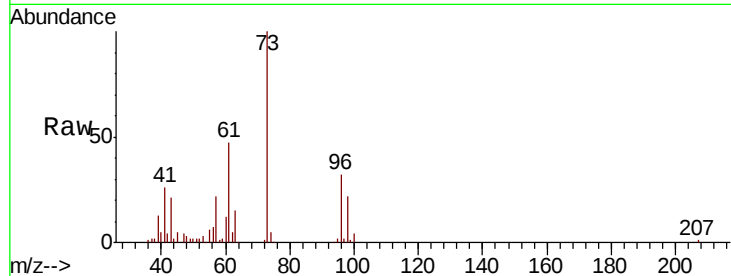




#19  
Methyl tert-butyl Ether  
Concen: 50.780 ug/l  
RT: 5.49 min Scan# 606  
Delta R.T. 0.00 min  
Lab File: VD065677.D  
Acq: 24 Apr 2020 15:49

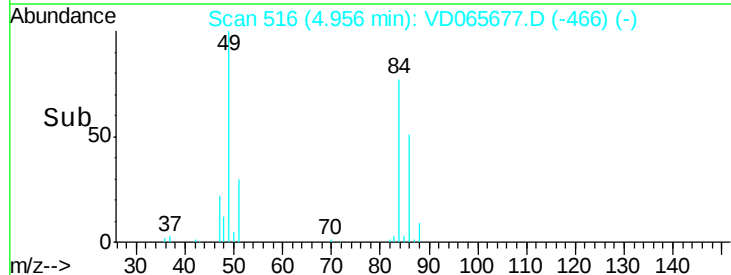
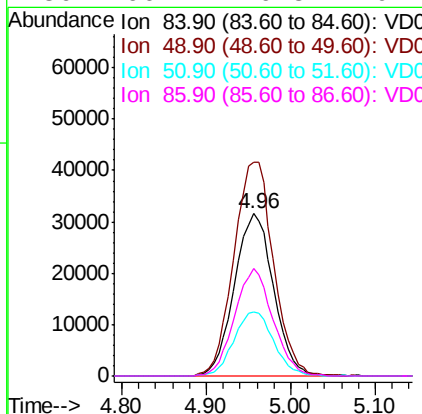
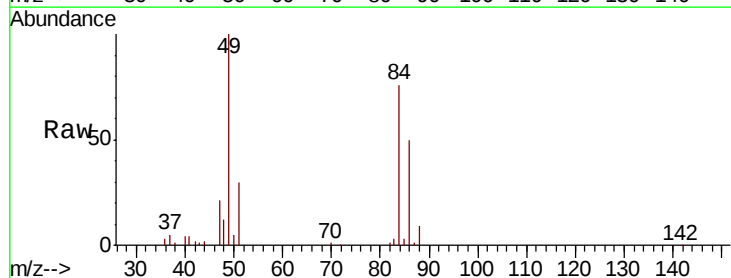
Instrument :  
MSVOA\_D  
ClientSampleId :

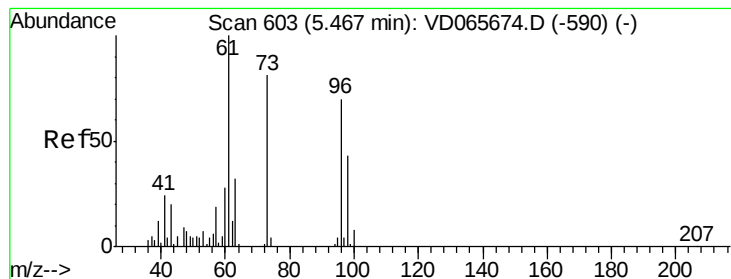
Tot Ion: 73 Resp: 198997  
Ion Ratio Lower Upper  
73 100  
57 22.2 18.3 27.5



#20  
Methylene Chloride  
Concen: 46.734 ug/l  
RT: 4.96 min Scan# 516  
Delta R.T. -0.01 min  
Lab File: VD065677.D  
Acq: 24 Apr 2020 15:49

Tgt Ion: 84 Resp: 101583  
Ion Ratio Lower Upper  
84 100  
49 131.6 103.1 154.7  
51 39.4 33.3 49.9  
86 66.2 46.8 70.2





#21

trans-1,2-Dichloroethene

Concen: 52.025 ug/l

RT: 5.46 min Scan# 602

Delta R.T. -0.01 min

Lab File: VD065677.D

Acq: 24 Apr 2020 15:49

Instrument :

MSVOA\_D

ClientSampleId :

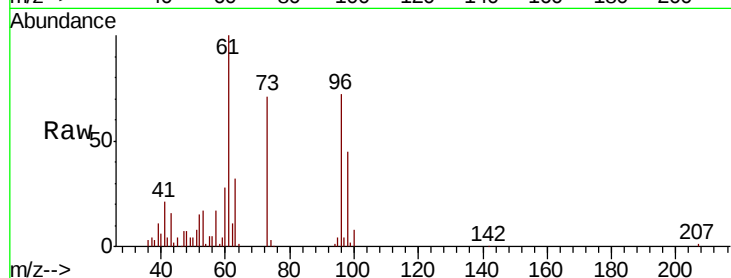
Tot Ion: 96 Resp: 111236

Ion Ratio Lower Upper

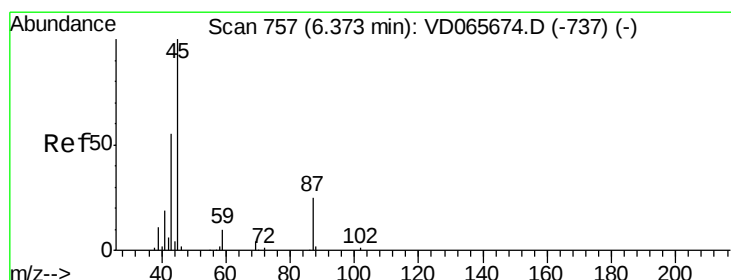
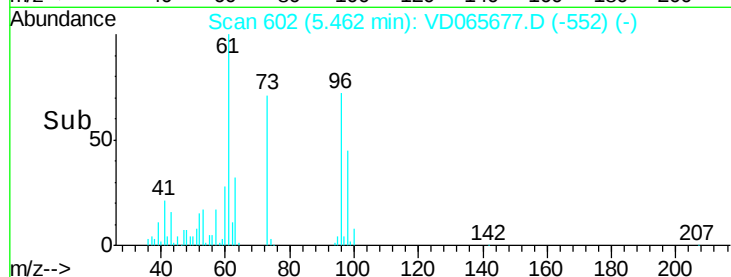
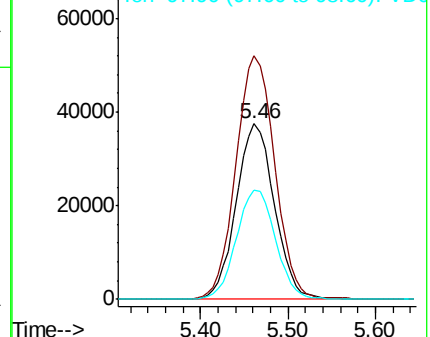
96 100

61 138.7 114.8 172.2

98 62.0 49.4 74.0



Abundance Ion 95.90 (95.60 to 96.60): VDC  
Ion 60.90 (60.60 to 61.60): VDC  
Ion 97.90 (97.60 to 98.60): VDC



#22

Diisopropyl ether

Concen: 50.436 ug/l

RT: 6.37 min Scan# 756

Delta R.T. -0.01 min

Lab File: VD065677.D

Acq: 24 Apr 2020 15:49

Tgt Ion: 45 Resp: 318994

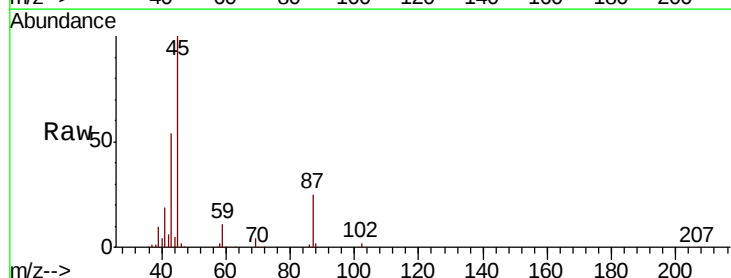
Ion Ratio Lower Upper

45 100

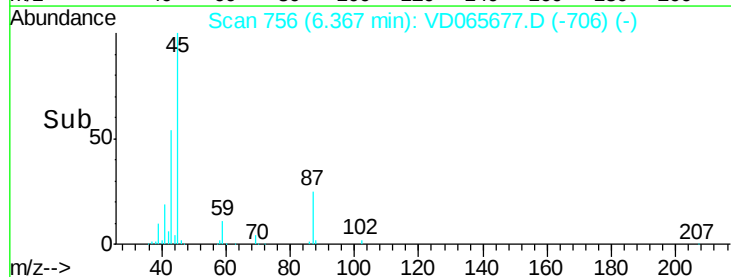
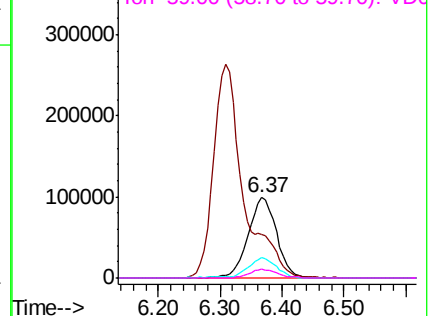
43 53.5 45.2 67.8

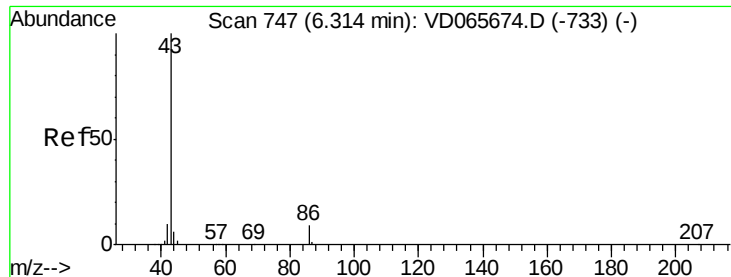
87 25.2 20.8 31.2

59 10.7 8.6 13.0



Abundance Ion 45.00 (44.70 to 45.70): VDC  
Ion 43.00 (42.70 to 43.70): VDC  
Ion 87.00 (86.70 to 87.70): VDC  
Ion 59.00 (58.70 to 59.70): VDC





#23

Vinyl Acetate

Concen: 229.645 ug/l

RT: 6.31 min Scan# 746

Delta R.T. -0.00 min

Lab File: VD065677.D

Acq: 24 Apr 2020 15:49

Instrument :

MSVOA\_D

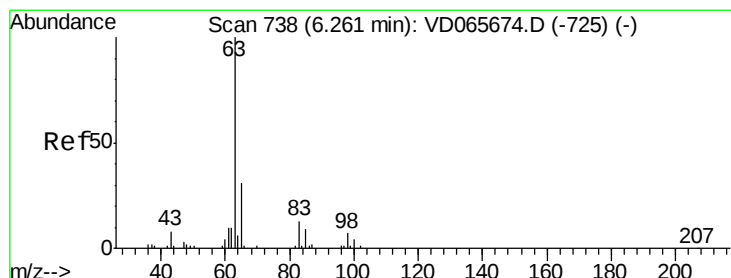
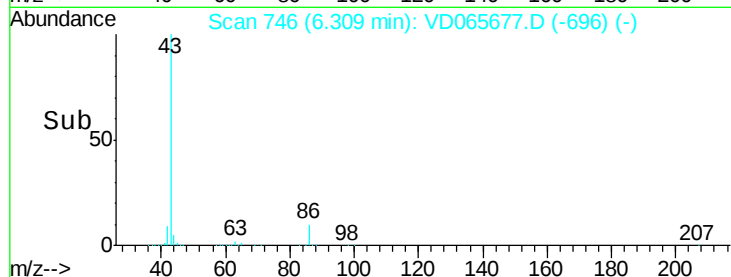
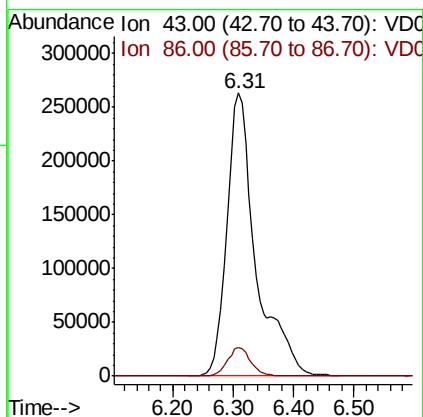
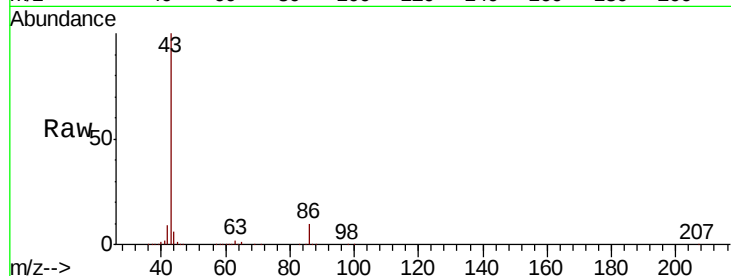
ClientSampled :

Tot Ion: 43 Resp: 880644

Ion Ratio Lower Upper

43 100

86 10.1 7.6 11.4



#24

1,1-Dichloroethane

Concen: 47.563 ug/l

RT: 6.26 min Scan# 738

Delta R.T. 0.00 min

Lab File: VD065677.D

Acq: 24 Apr 2020 15:49

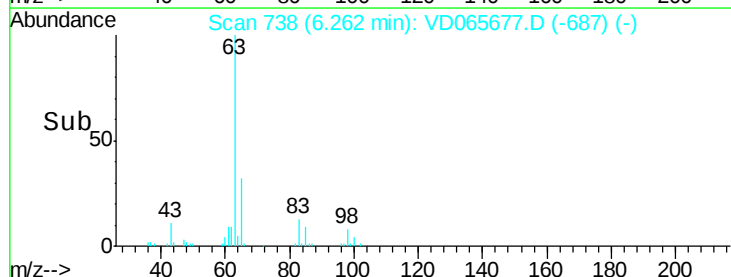
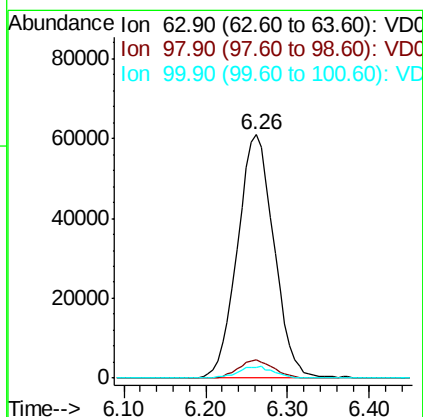
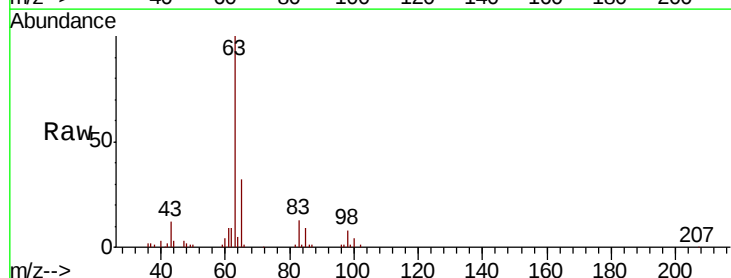
Tgt Ion: 63 Resp: 189271

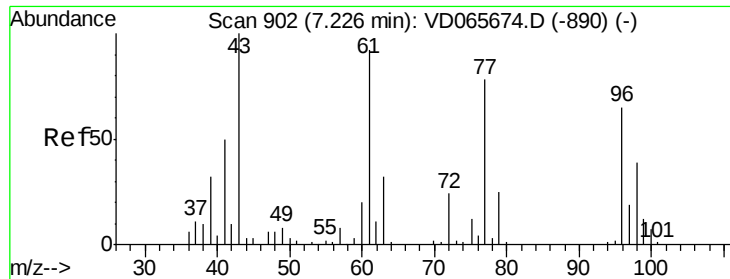
Ion Ratio Lower Upper

63 100

98 7.5 3.5 10.4

100 4.3 2.2 6.6

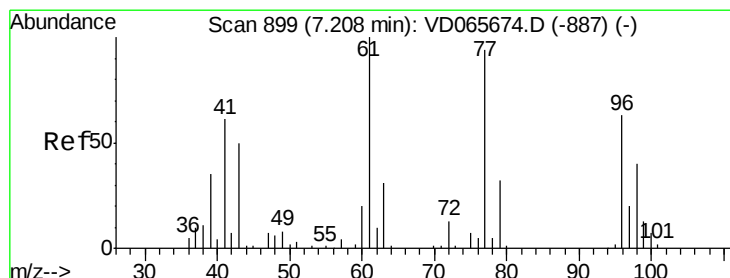
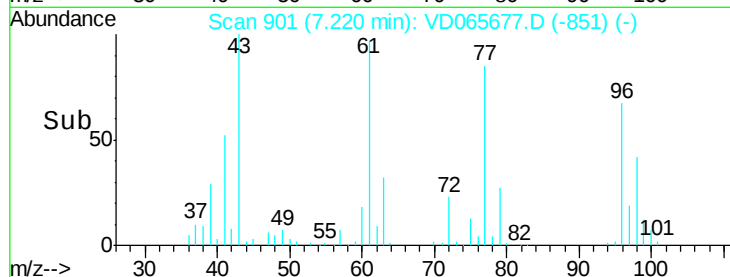
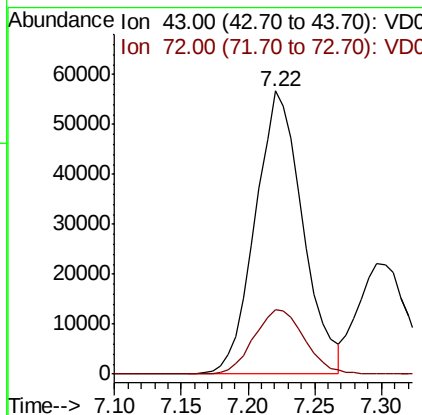
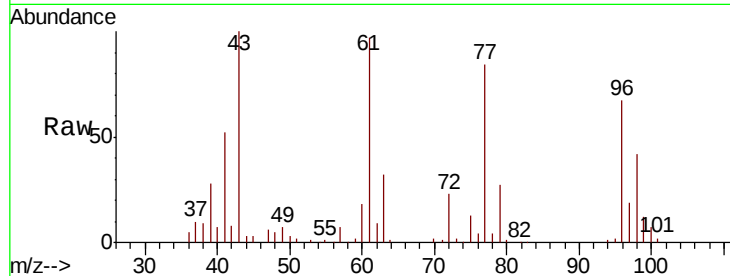




#25  
2-Butanone  
Concen: 241.621 ug/l  
RT: 7.22 min Scan# 901  
Delta R.T. -0.01 min  
Lab File: VD065677.D  
Acq: 24 Apr 2020 15:49

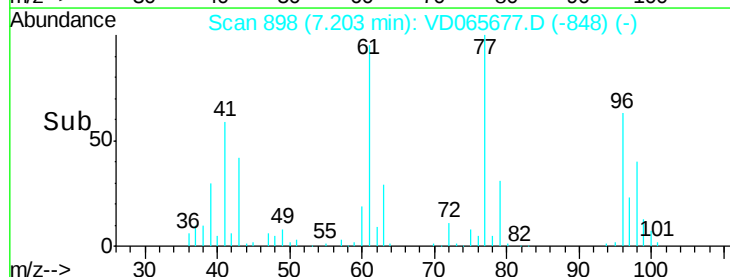
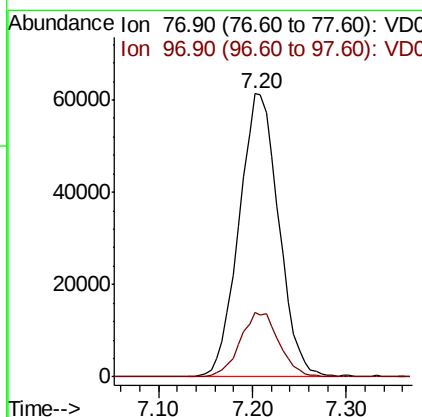
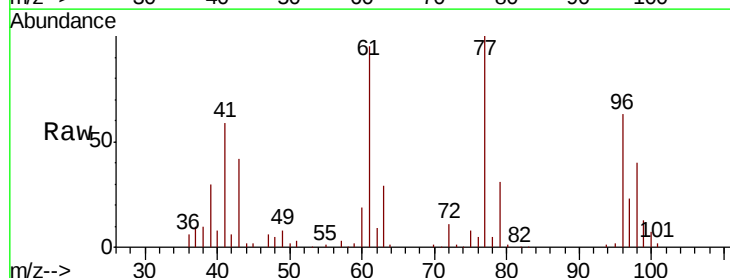
Instrument :  
MSVOA\_D  
ClientSampled :

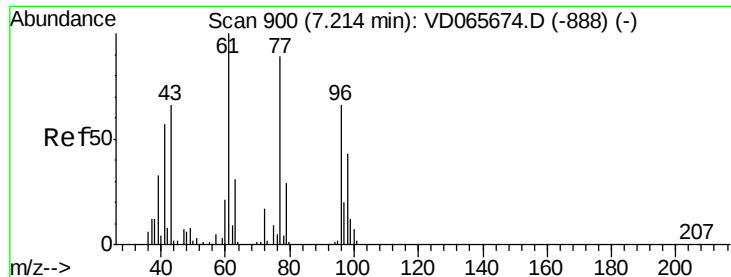
Tot Ion: 43 Resp: 140407  
Ion Ratio Lower Upper  
43 100  
72 22.6 19.3 28.9



#26  
2,2-Dichloropropane  
Concen: 48.685 ug/l  
RT: 7.20 min Scan# 898  
Delta R.T. -0.01 min  
Lab File: VD065677.D  
Acq: 24 Apr 2020 15:49

Tgt Ion: 77 Resp: 179082  
Ion Ratio Lower Upper  
77 100  
97 22.2 10.8 32.3



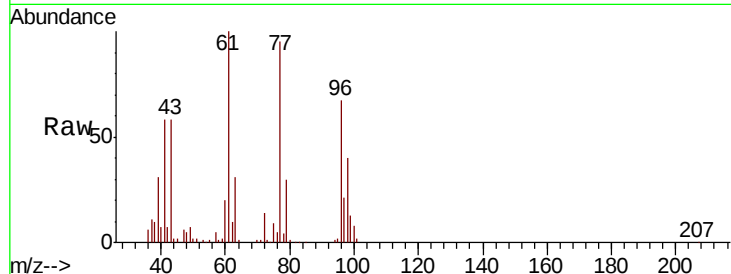


#27

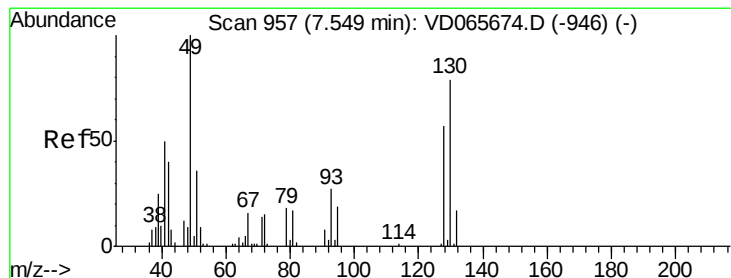
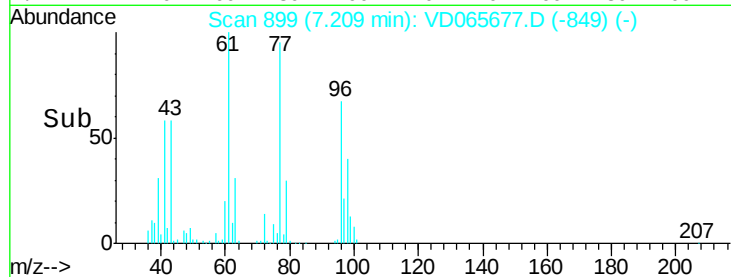
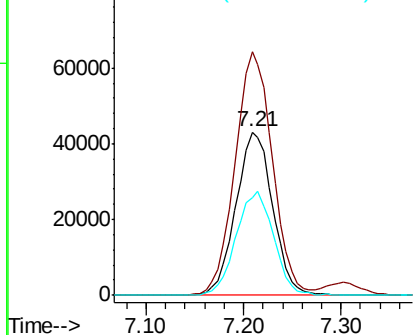
cis-1,2-Dichloroethene  
Concen: 48.912 ug/l  
RT: 7.21 min Scan# 899  
Delta R.T. -0.01 min  
Lab File: VD065677.D  
Acq: 24 Apr 2020 15:49

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion: 96 Resp: 113123  
Ion Ratio Lower Upper  
96 100  
61 151.3 0.0 304.6  
98 65.1 0.0 126.6



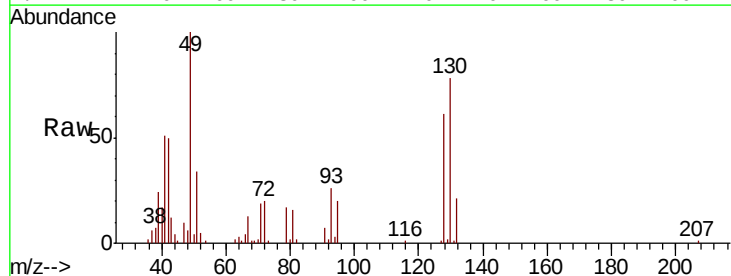
Abundance Ion 95.90 (95.60 to 96.60): VDC  
Ion 60.90 (60.60 to 61.60): VDC  
Ion 97.90 (97.60 to 98.60): VDC



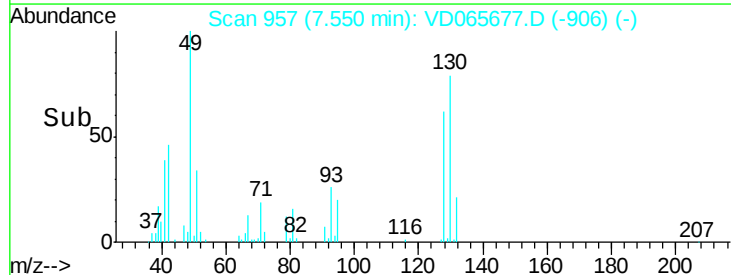
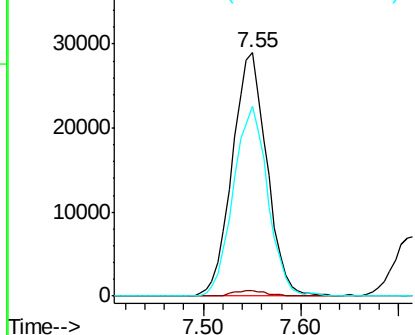
#28

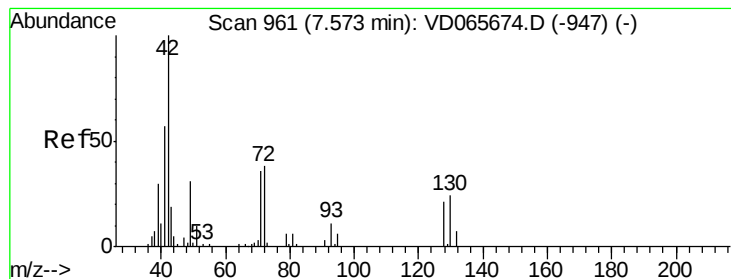
Bromochloromethane  
Concen: 44.921 ug/l  
RT: 7.55 min Scan# 957  
Delta R.T. 0.00 min  
Lab File: VD065677.D  
Acq: 24 Apr 2020 15:49

Tgt Ion: 49 Resp: 71601  
Ion Ratio Lower Upper  
49 100  
129 2.2 0.0 2.4  
130 77.8 60.7 91.1



Abundance Ion 48.90 (48.60 to 49.60): VDC  
Ion 128.80 (128.50 to 129.50): VDC  
Ion 129.80 (129.50 to 130.50): VDC





#29

Tetrahydrofuran

Concen: 226.048 ug/l

RT: 7.57 min Scan# 961

Delta R.T. 0.00 min

Lab File: VD065677.D

Acq: 24 Apr 2020 15:49

Instrument :

MSVOA\_D

ClientSampleId :

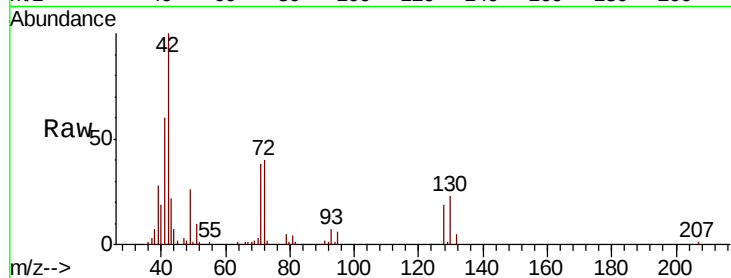
Tot Ion: 42 Resp: 79986

Ion Ratio Lower Upper

42 100

72 39.9 31.2 46.8

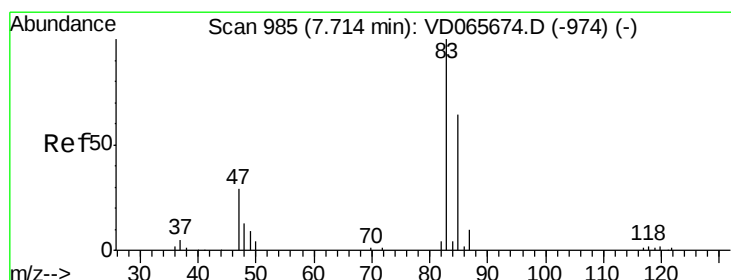
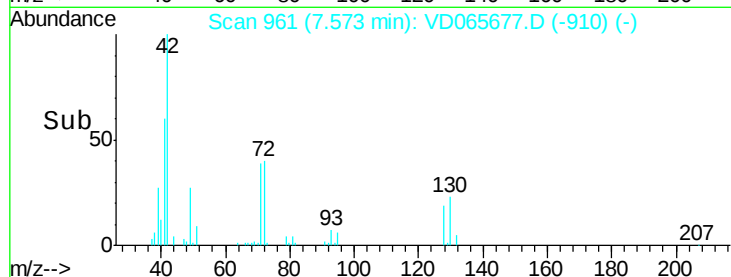
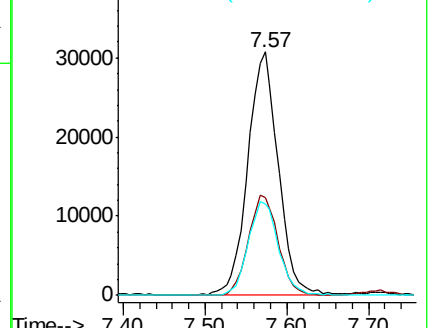
71 38.0 28.9 43.3



Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC



#30

Chloroform

Concen: 46.229 ug/l

RT: 7.71 min Scan# 984

Delta R.T. -0.01 min

Lab File: VD065677.D

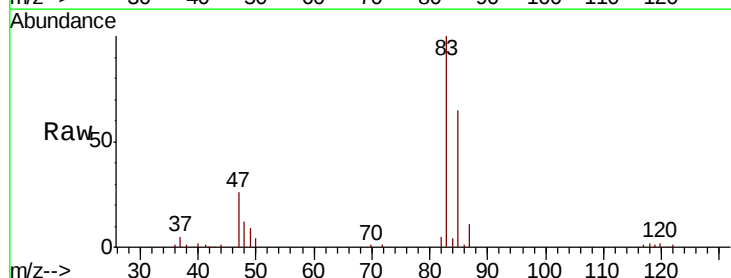
Acq: 24 Apr 2020 15:49

Tgt Ion: 83 Resp: 193552

Ion Ratio Lower Upper

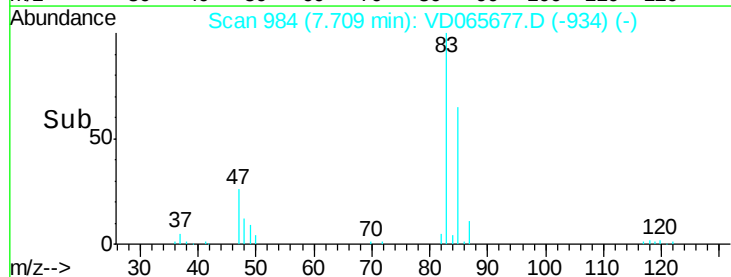
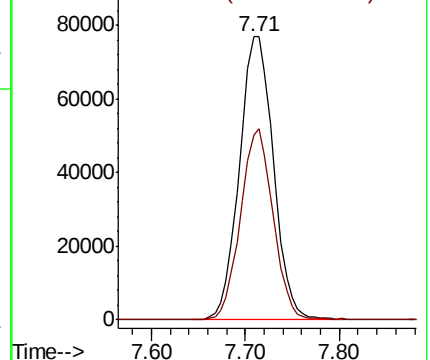
83 100

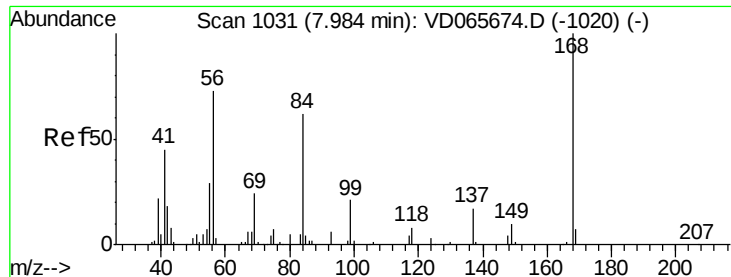
85 65.2 51.5 77.3



Abundance Ion 82.90 (82.60 to 83.60): VDC

Ion 84.90 (84.60 to 85.60): VDC

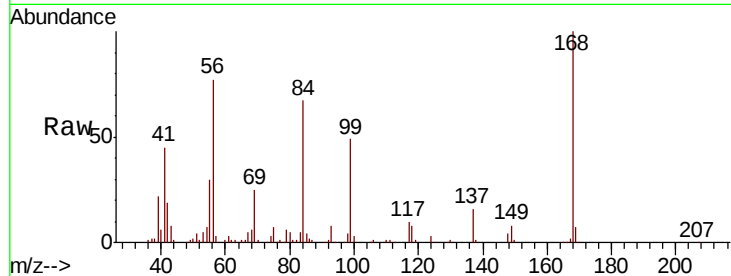




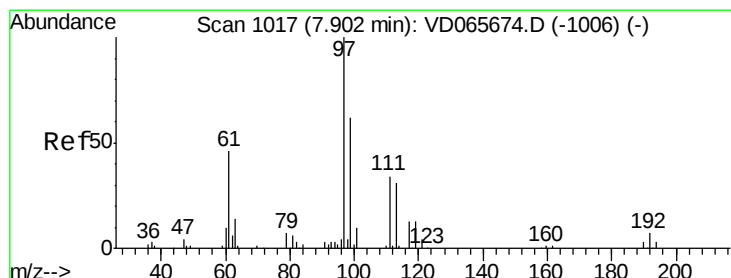
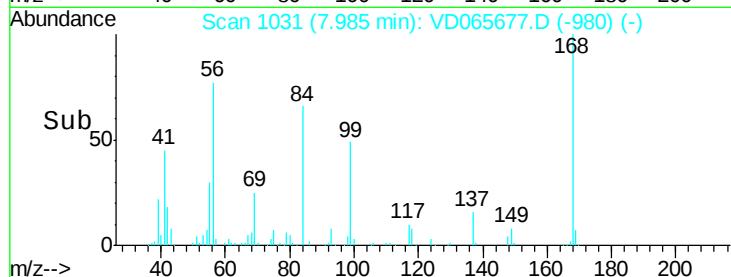
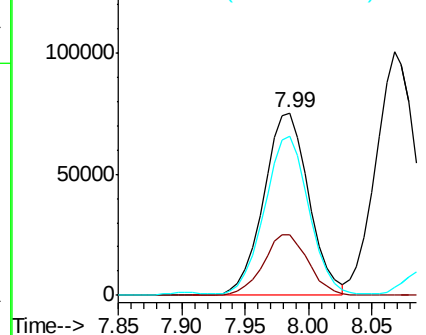
#31  
Cyclohexane  
Concen: 49.254 ug/l  
RT: 7.99 min Scan# 1031  
Delta R.T. 0.00 min  
Lab File: VD065677.D  
Acq: 24 Apr 2020 15:49

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion: 56 Resp: 186491  
Ion Ratio Lower Upper  
56 100  
69 33.2 25.8 38.6  
84 85.9 68.3 102.5

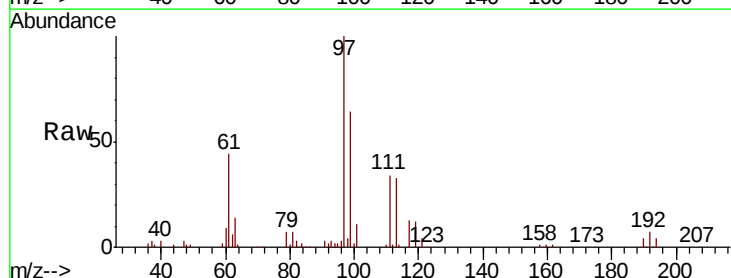


Abundance Ion 56.00 (55.70 to 56.70): VDC  
Ion 69.00 (68.70 to 69.70): VDC  
Ion 84.00 (83.70 to 84.70): VDC

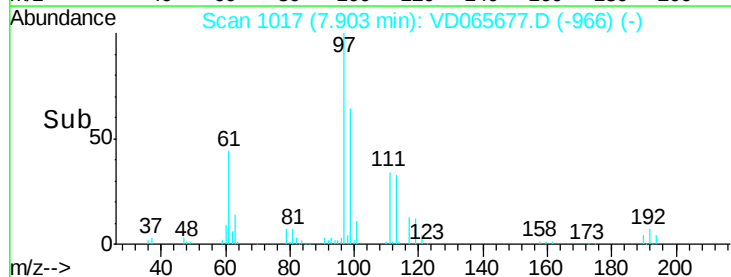
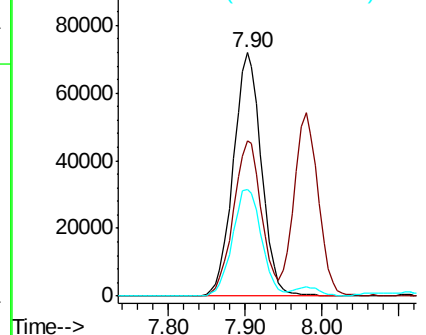


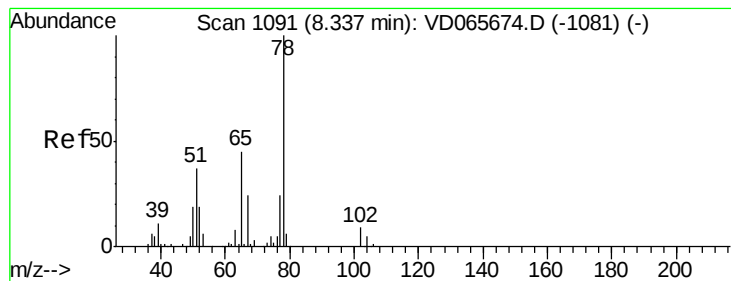
#32  
1,1,1-Trichloroethane  
Concen: 47.771 ug/l  
RT: 7.90 min Scan# 1017  
Delta R.T. 0.00 min  
Lab File: VD065677.D  
Acq: 24 Apr 2020 15:49

Tgt Ion: 97 Resp: 182921  
Ion Ratio Lower Upper  
97 100  
99 63.8 51.0 76.4  
61 45.5 37.4 56.2



Abundance Ion 96.90 (96.60 to 97.60): VDC  
Ion 98.90 (98.60 to 99.60): VDC  
Ion 60.90 (60.60 to 61.60): VDC





#33

1,2-Dichloroethane-d4

Concen: 42.358 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. -0.01 min

Lab File: VD065677.D

Acq: 24 Apr 2020 15:49

Instrument :

MSVOA\_D

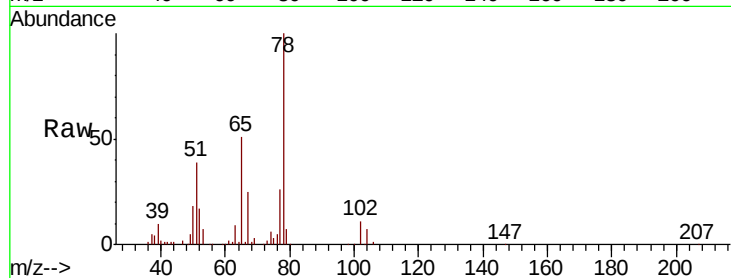
ClientSampleId :

Tot Ion: 65 Resp: 92579

Ion Ratio Lower Upper

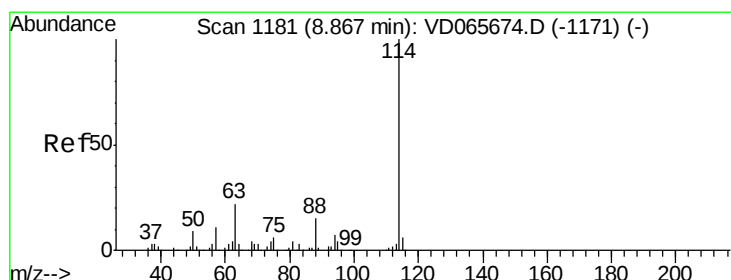
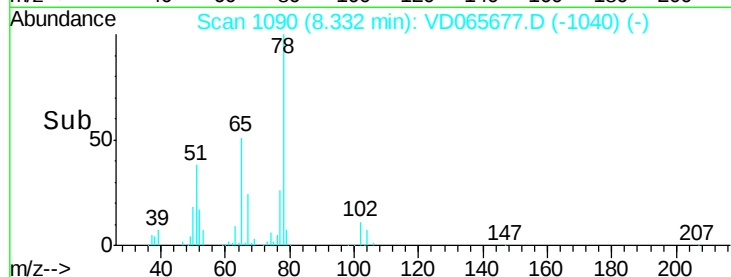
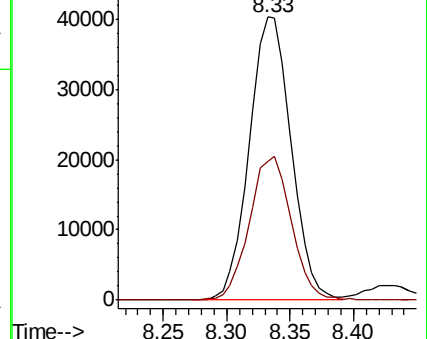
65 100

67 51.1 0.0 100.2



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD065677.D

Acq: 24 Apr 2020 15:49

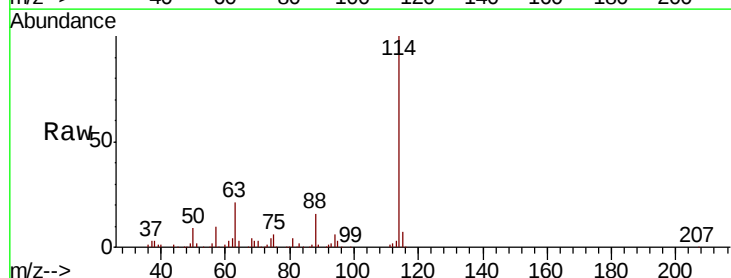
Tgt Ion: 114 Resp: 295530

Ion Ratio Lower Upper

114 100

63 21.4 0.0 44.0

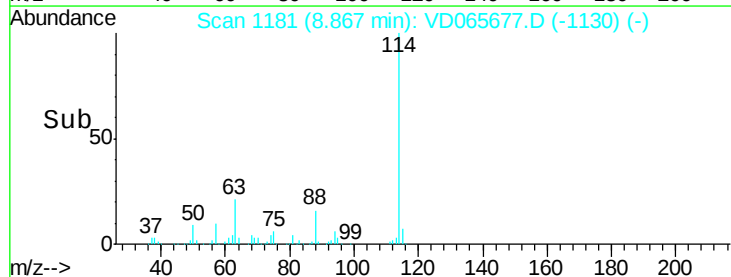
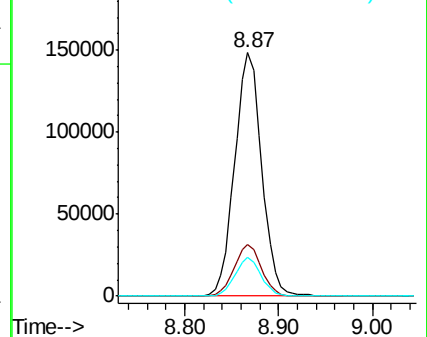
88 16.1 0.0 30.4

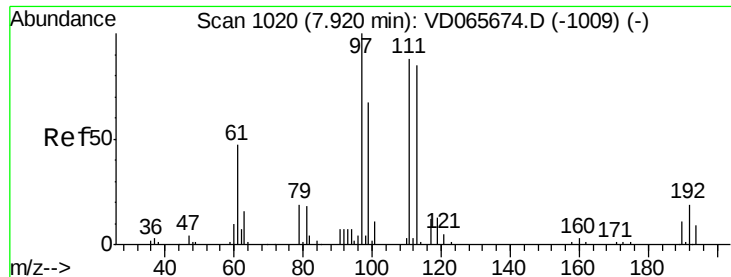


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

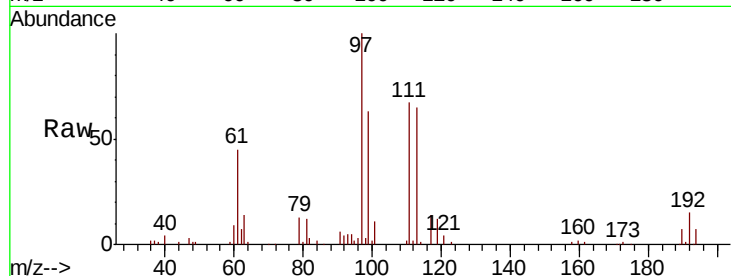




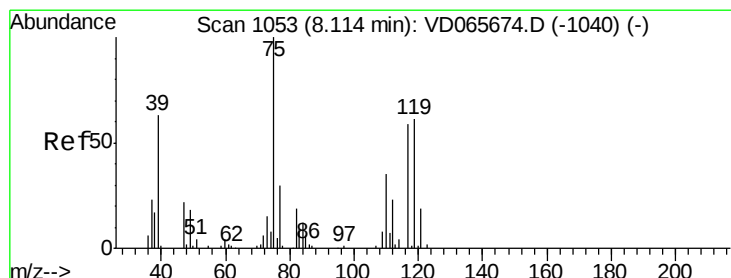
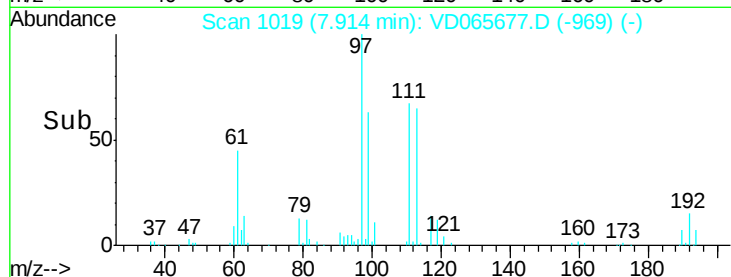
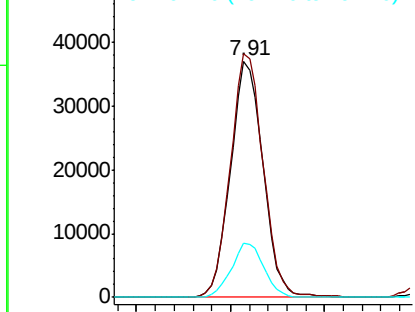
#35  
 Dibromofluoromethane  
 Concen: 44.632 ug/l  
 RT: 7.91 min Scan# 1019  
 Delta R.T. -0.01 min  
 Lab File: VD065677.D  
 Acq: 24 Apr 2020 15:49

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Tot Ion:113 Resp: 89033  
 Ion Ratio Lower Upper  
 113 100  
 111 103.9 83.4 125.0  
 192 22.7 17.7 26.5

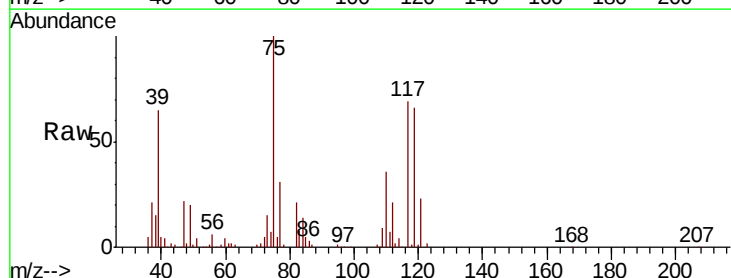


Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V

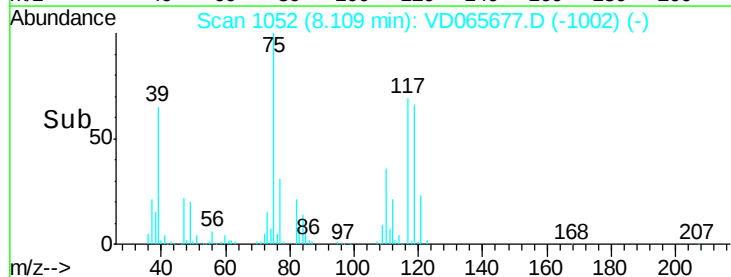
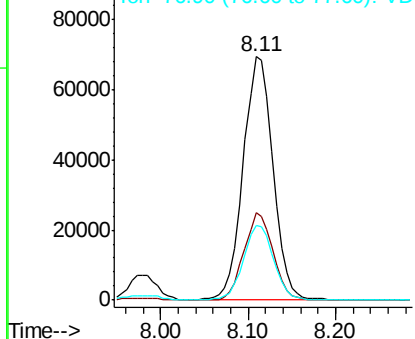


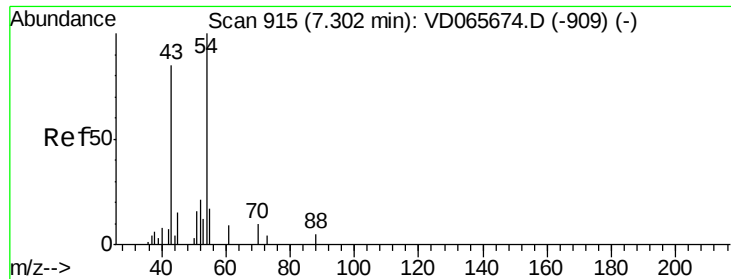
#36  
 1,1-Dichloropropene  
 Concen: 50.993 ug/l  
 RT: 8.11 min Scan# 1052  
 Delta R.T. -0.01 min  
 Lab File: VD065677.D  
 Acq: 24 Apr 2020 15:49

Tgt Ion: 75 Resp: 161295  
 Ion Ratio Lower Upper  
 75 100  
 110 34.7 17.2 51.5  
 77 31.2 24.5 36.7



Abundance Ion 74.90 (74.60 to 75.60): V  
 Ion 109.90 (109.60 to 110.60): V  
 Ion 76.90 (76.60 to 77.60): V

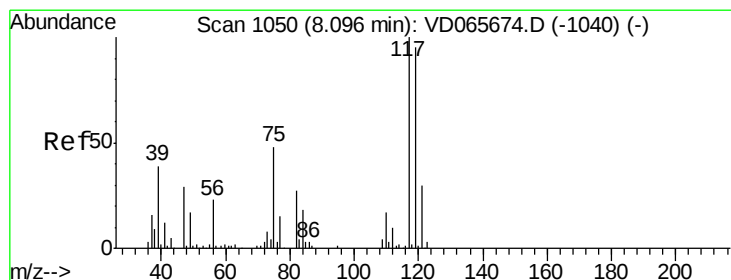
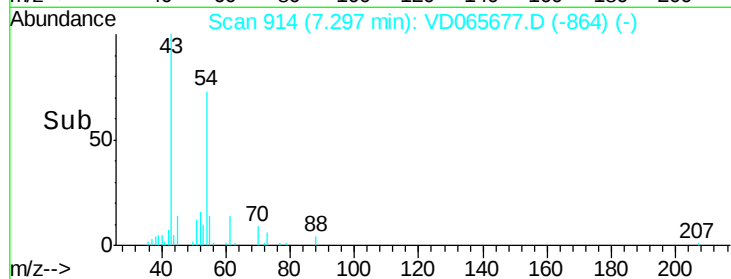
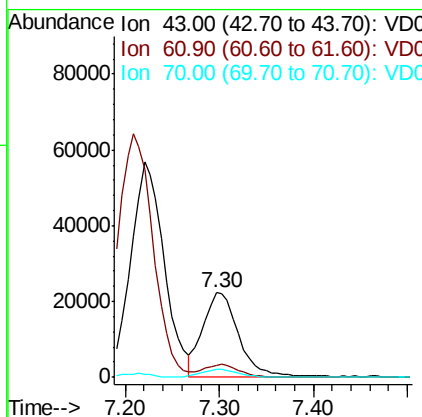
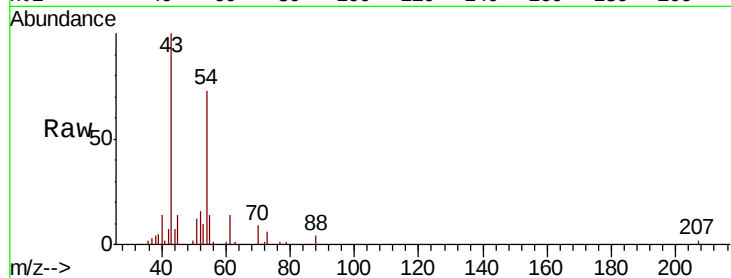




#37  
Ethyl Acetate  
Concen: 46.232 ug/l  
RT: 7.30 min Scan# 914  
Delta R.T. -0.01 min  
Lab File: VD065677.D  
Acq: 24 Apr 2020 15:49

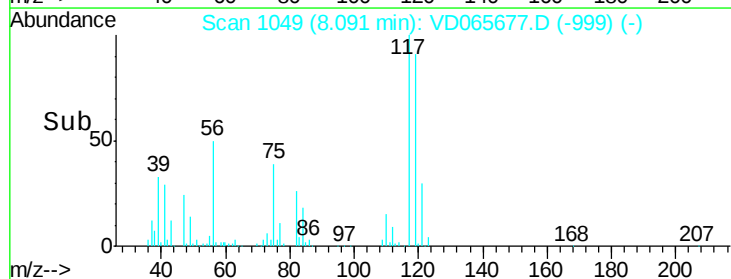
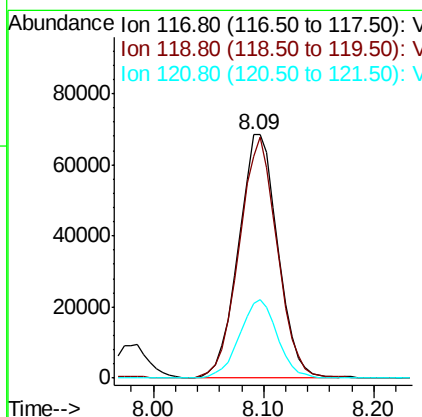
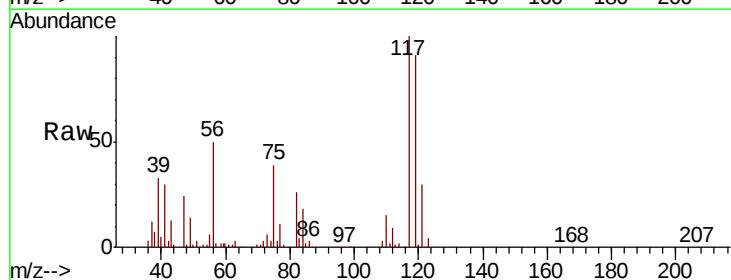
Instrument :  
MSVOA\_D  
ClientSampleID :

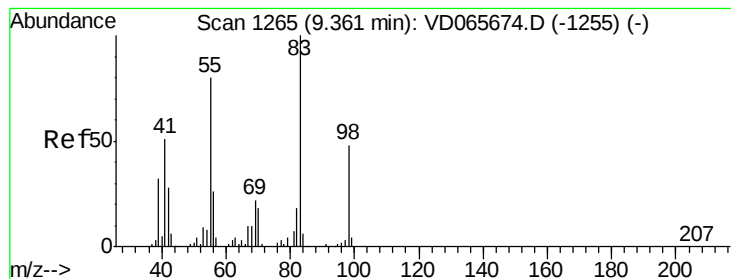
Tot Ion: 43 Resp: 58964  
Ion Ratio Lower Upper  
43 100  
61 14.4 11.3 16.9  
70 9.8 7.5 11.3



#38  
Carbon Tetrachloride  
Concen: 48.124 ug/l  
RT: 8.09 min Scan# 1049  
Delta R.T. -0.01 min  
Lab File: VD065677.D  
Acq: 24 Apr 2020 15:49

Tgt Ion: 117 Resp: 170164  
Ion Ratio Lower Upper  
117 100  
119 91.5 75.8 113.6  
121 30.5 23.8 35.8





#39

Methvlcvclohexane

Concen: 54.420 ug/l

RT: 9.36 min Scan# 1264

Delta R.T. -0.01 min

Lab File: VD065677.D

Acq: 24 Apr 2020 15:49

Instrument :

MSVOA\_D

ClientSampleId :

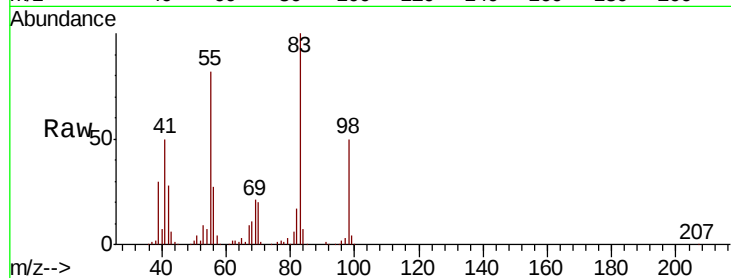
Tot Ion: 83 Resp: 188928

Ion Ratio Lower Upper

83 100

55 81.6 64.2 96.2

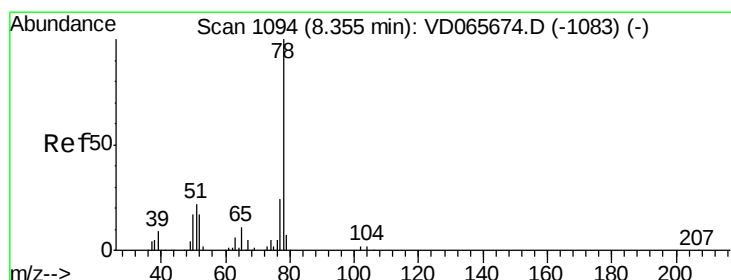
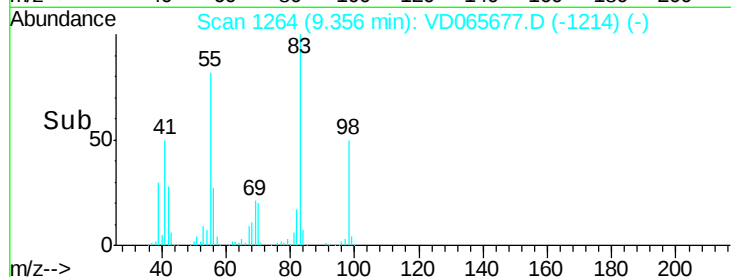
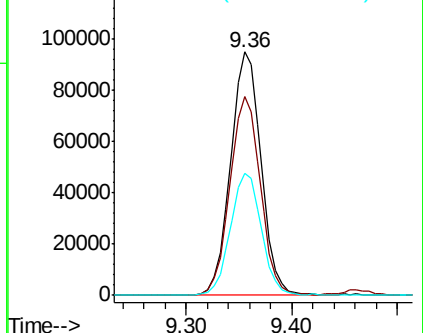
98 50.0 38.1 57.1



Abundance Ion 83.00 (82.70 to 83.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 98.00 (97.70 to 98.70): VDC



#40

Benzene

Concen: 49.258 ug/l

RT: 8.35 min Scan# 1093

Delta R.T. -0.01 min

Lab File: VD065677.D

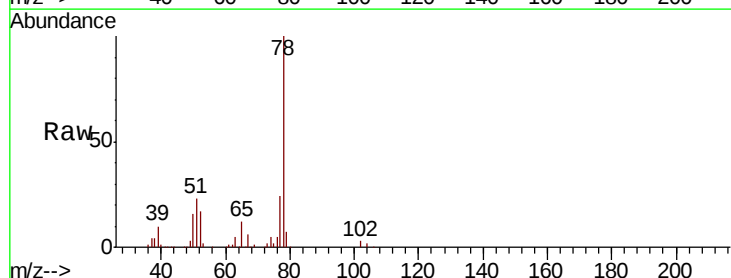
Acq: 24 Apr 2020 15:49

Tgt Ion: 78 Resp: 429889

Ion Ratio Lower Upper

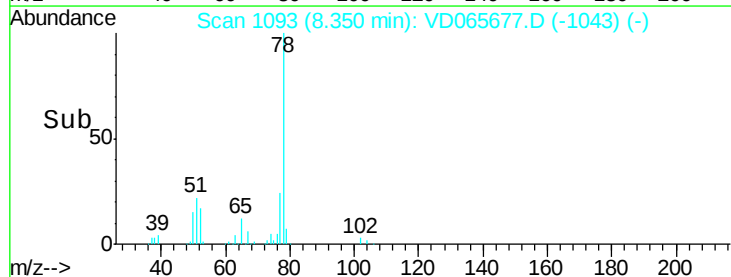
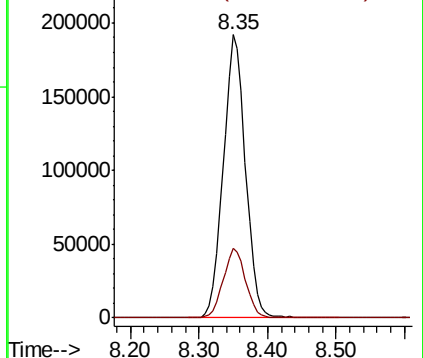
78 100

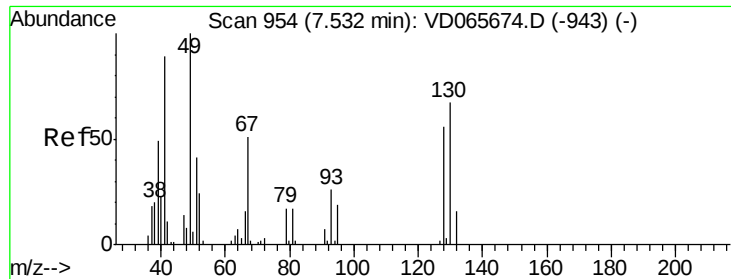
77 24.4 19.4 29.0



Abundance Ion 78.00 (77.70 to 78.70): VDC

Ion 77.00 (76.70 to 77.70): VDC

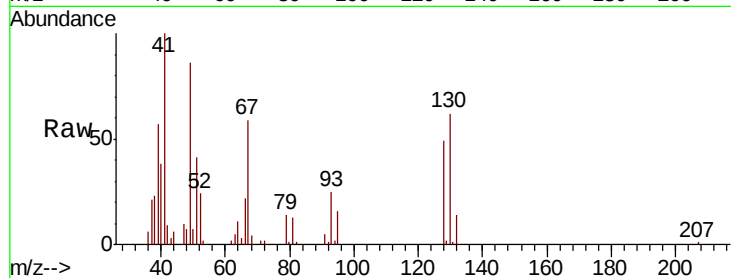




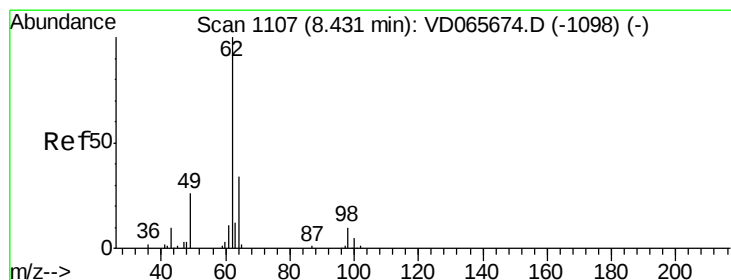
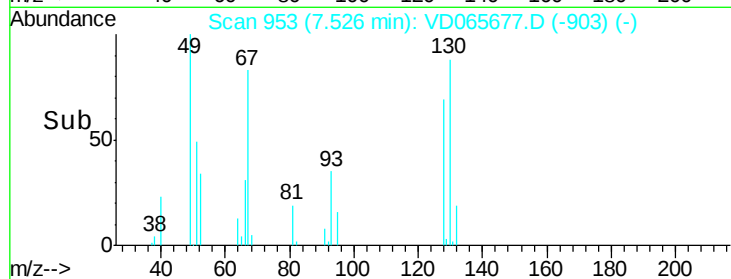
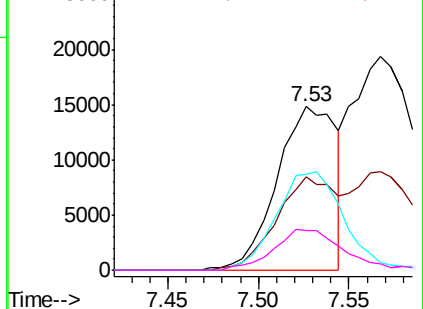
#41  
Methacrylonitrile  
Concen: 50.311 ug/l  
RT: 7.53 min Scan# 953  
Delta R.T. -0.00 min  
Lab File: VD065677.D  
Acq: 24 Apr 2020 15:49

Instrument :  
MSVOA\_D  
ClientSampled :

Tot Ion: 41 Resp: 33858  
Ion Ratio Lower Upper  
41 100  
39 56.3 0.0 0.0#  
67 68.4 56.0 84.0  
52 29.3 27.0 40.4

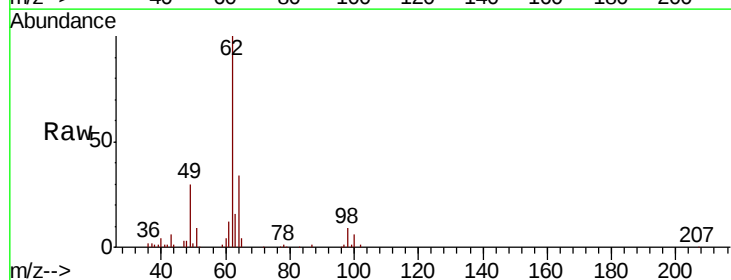


Abundance Ion 41.00 (40.70 to 41.70): VDC  
Ion 39.00 (38.70 to 39.70): VDC  
Ion 67.00 (66.70 to 67.70): VDC  
Ion 52.00 (51.70 to 52.70): VDC

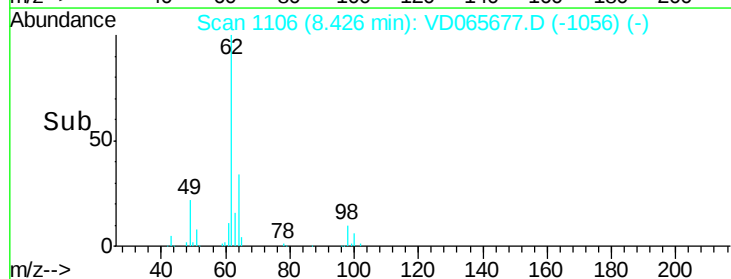
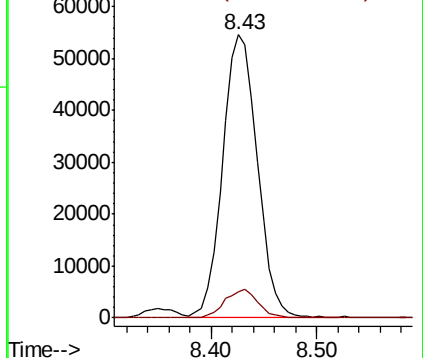


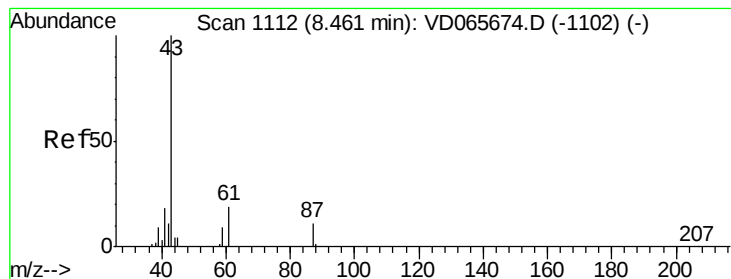
#42  
1,2-Dichloroethane  
Concen: 46.404 ug/l  
RT: 8.43 min Scan# 1106  
Delta R.T. -0.01 min  
Lab File: VD065677.D  
Acq: 24 Apr 2020 15:49

Tgt Ion: 62 Resp: 124481  
Ion Ratio Lower Upper  
62 100  
98 9.5 0.0 17.2



Abundance Ion 61.90 (61.60 to 62.60): VDC  
Ion 97.90 (97.60 to 98.60): VDC





#43

Isopropyl Acetate

Concen: 46.785 ug/l

RT: 8.46 min Scan# 1111

Delta R.T. -0.01 min

Lab File: VD065677.D

Acq: 24 Apr 2020 15:49

Instrument :

MSVOA\_D

ClientSampleId :

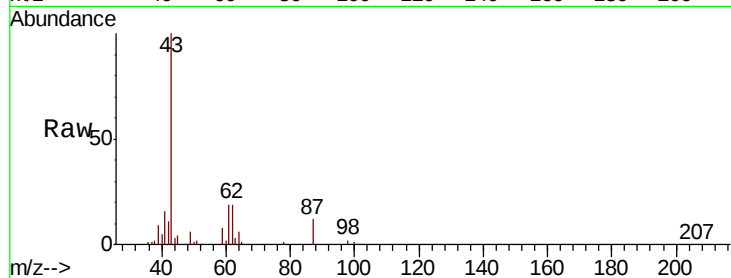
Tot Ion: 43 Resp: 109948

Ion Ratio Lower Upper

43 100

61 30.2 24.4 36.6

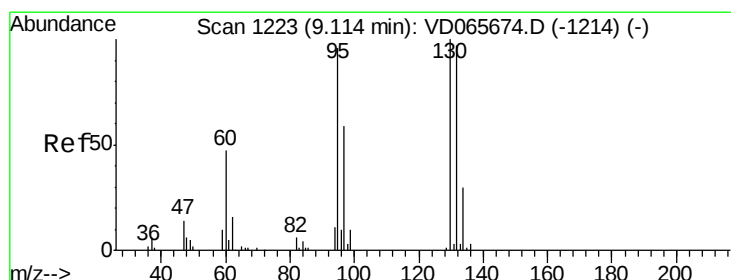
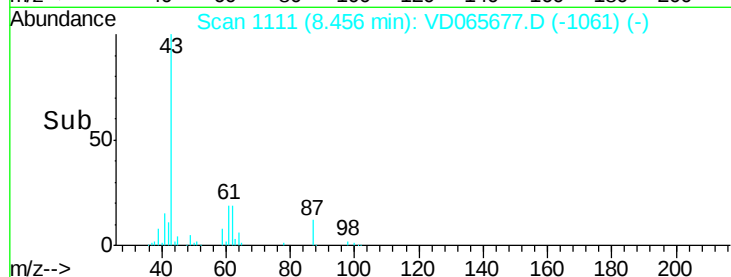
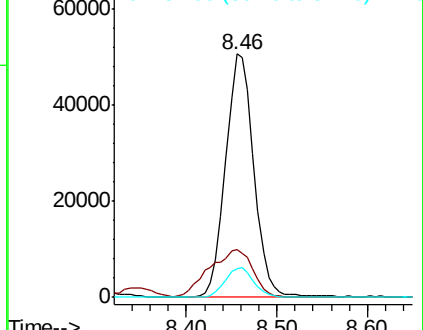
87 12.1 9.3 13.9



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 61.00 (60.70 to 61.70): VDC

Ion 87.00 (86.70 to 87.70): VDC



#44

Trichloroethene

Concen: 48.770 ug/l

RT: 9.11 min Scan# 1223

Delta R.T. 0.00 min

Lab File: VD065677.D

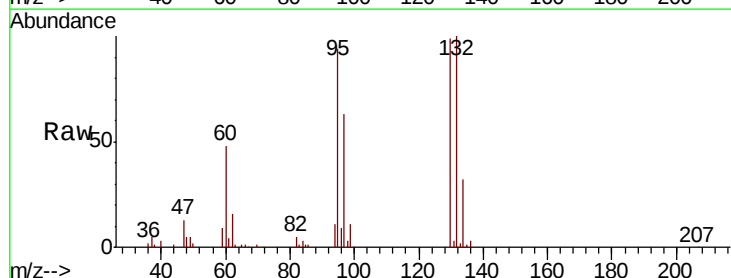
Acq: 24 Apr 2020 15:49

Tgt Ion:130 Resp: 117814

Ion Ratio Lower Upper

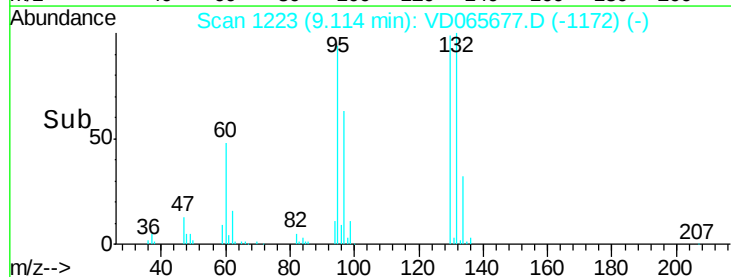
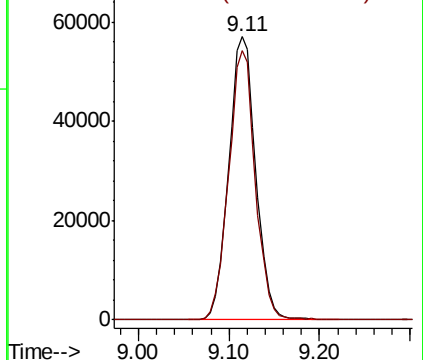
130 100

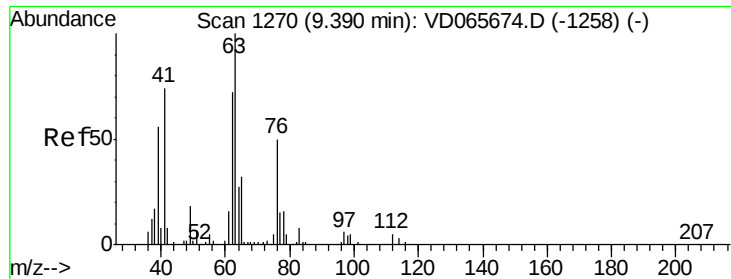
95 95.0 0.0 191.8



Abundance Ion 129.80 (129.50 to 130.50): VDC

Ion 94.90 (94.60 to 95.60): VDC

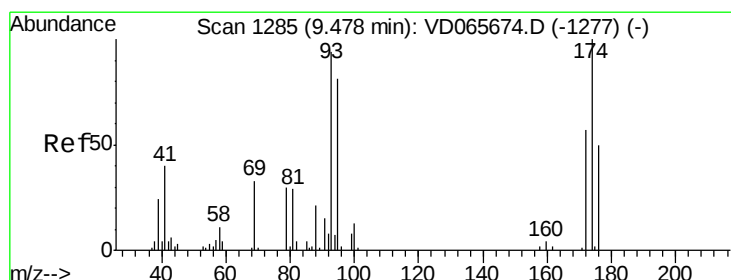
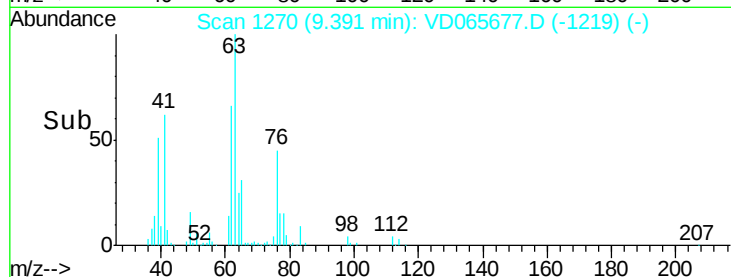
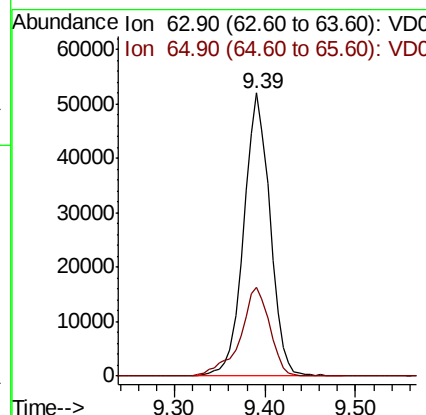
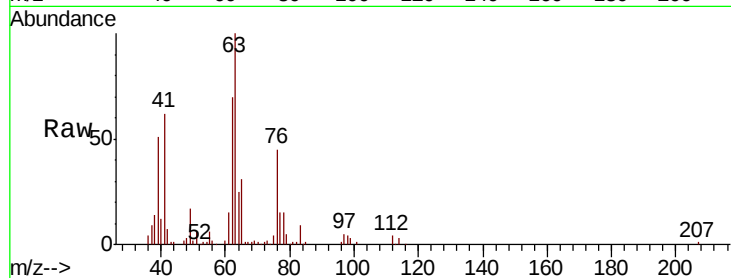




#45  
 1,2-Dichloropropane  
 Concen: 47.774 ug/l  
 RT: 9.39 min Scan# 1270  
 Delta R.T. 0.00 min  
 Lab File: VD065677.D  
 Acq: 24 Apr 2020 15:49

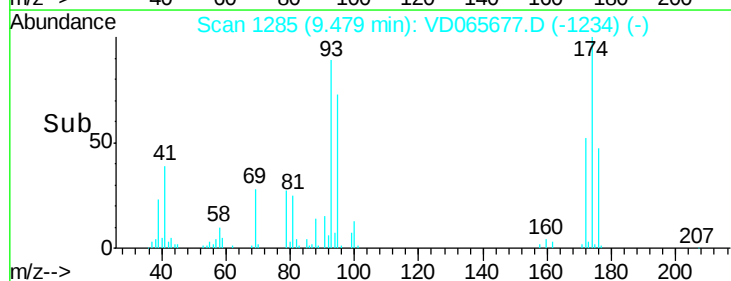
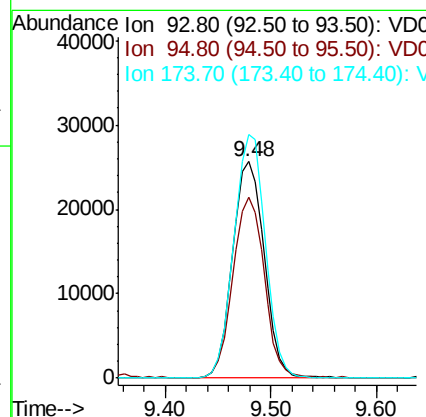
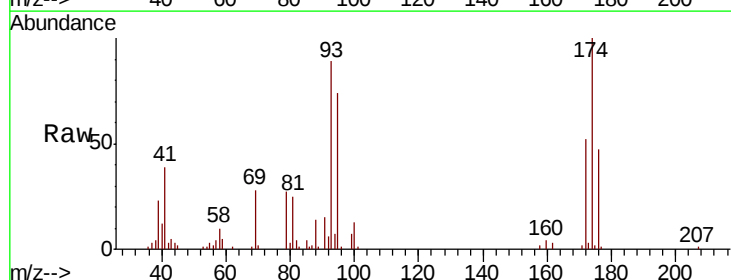
Instrument :  
 MSVOA\_D  
 ClientSampleId :

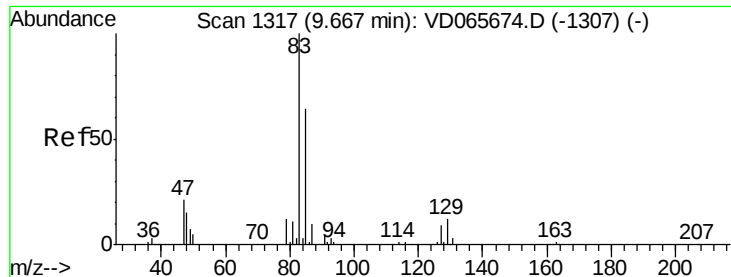
Tot Ion: 63 Resp: 105010  
 Ion Ratio Lower Upper  
 63 100  
 65 31.4 25.5 38.3



#46  
 Dibromomethane  
 Concen: 46.827 ug/l  
 RT: 9.48 min Scan# 1285  
 Delta R.T. 0.00 min  
 Lab File: VD065677.D  
 Acq: 24 Apr 2020 15:49

Tgt Ion: 93 Resp: 53415  
 Ion Ratio Lower Upper  
 93 100  
 95 82.8 66.1 99.1  
 174 111.4 86.4 129.6





#47

Bromodichloromethane

Concen: 47.350 ug/l

RT: 9.67 min Scan# 1317

Delta R.T. 0.00 min

Lab File: VD065677.D

Acq: 24 Apr 2020 15:49

Instrument :

MSVOA\_D

ClientSampleId :

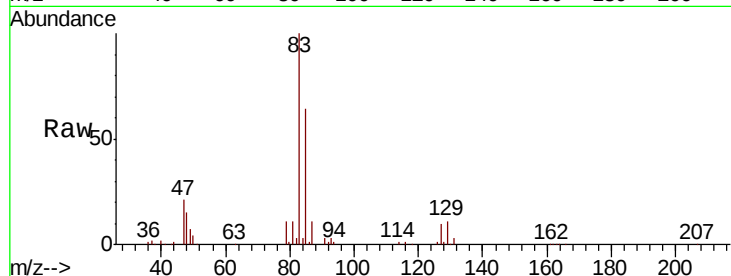
Tot Ion: 83 Resp: 146683

Ion Ratio Lower Upper

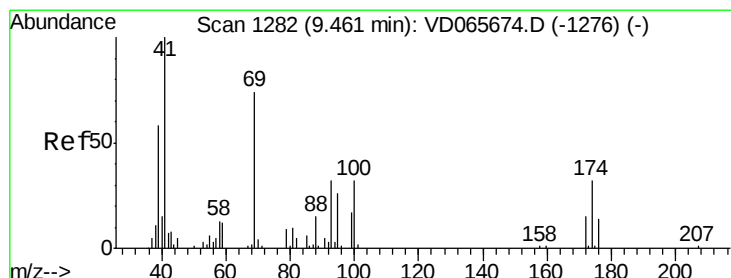
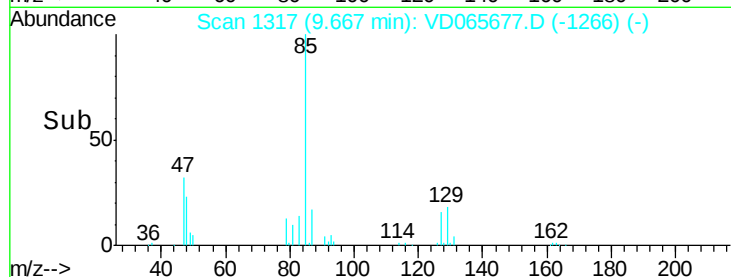
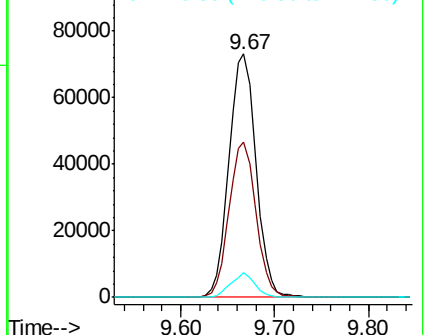
83 100

85 63.9 51.0 76.6

127 10.0 7.1 10.7



Abundance Ion 82.90 (82.60 to 83.60): VDC  
Ion 84.90 (84.60 to 85.60): VDC  
Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 47.434 ug/l

RT: 9.46 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VD065677.D

Acq: 24 Apr 2020 15:49

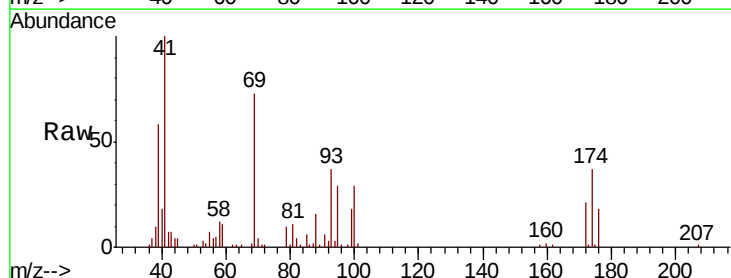
Tgt Ion: 41 Resp: 54204

Ion Ratio Lower Upper

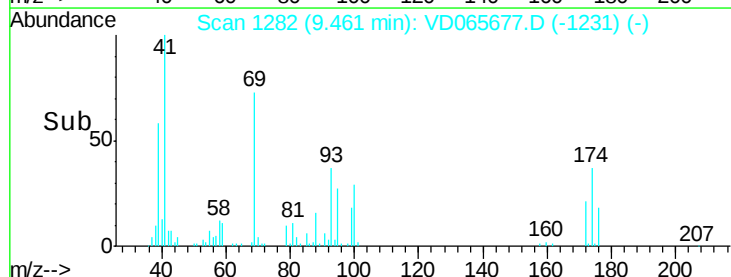
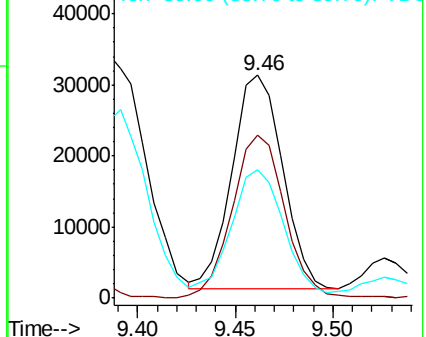
41 100

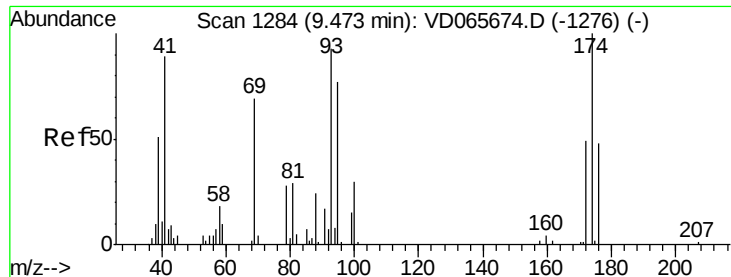
69 79.5 62.4 93.6

39 58.0 48.9 73.3



Abundance Ion 41.00 (40.70 to 41.70): VDC  
Ion 69.00 (68.70 to 69.70): VDC  
Ion 39.00 (38.70 to 39.70): VDC





#49

1,4-Dioxane

Concen: 851.498 ug/l

RT: 9.47 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VD065677.D

Acq: 24 Apr 2020 15:49

Instrument :

MSVOA\_D

ClientSampleId :

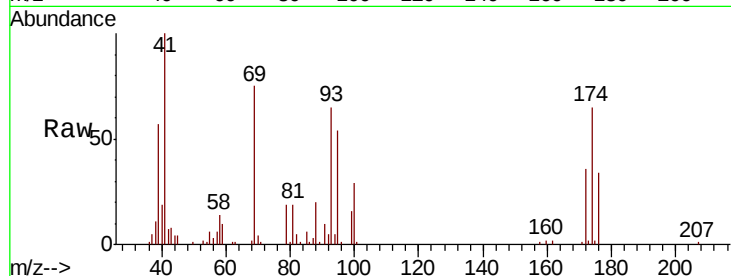
Tot Ion: 88 Resp: 11570

Ion Ratio Lower Upper

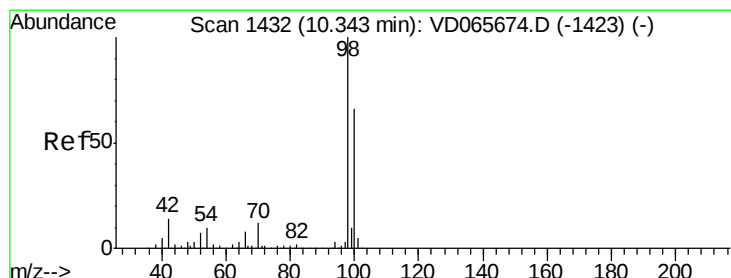
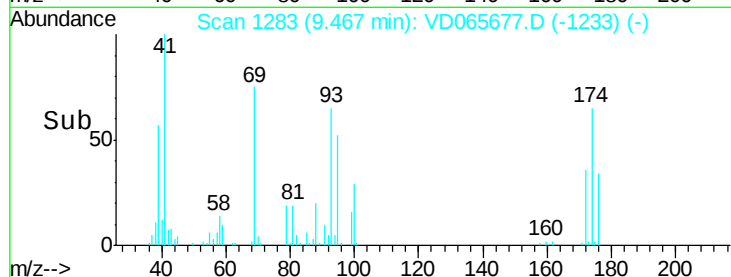
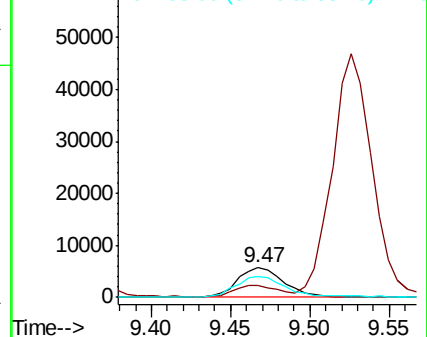
88 100

43 41.3 34.2 51.2

58 73.2 58.2 87.2



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



#50

Toluene-d8

Concen: 47.018 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD065677.D

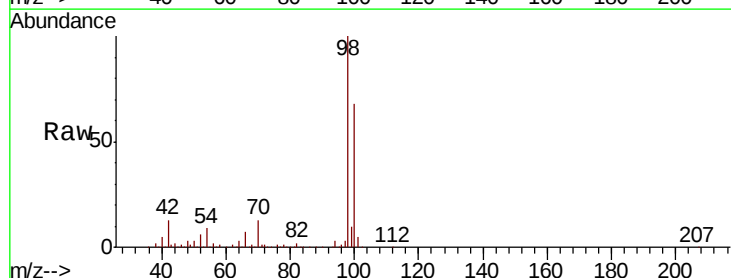
Acq: 24 Apr 2020 15:49

Tgt Ion: 98 Resp: 336234

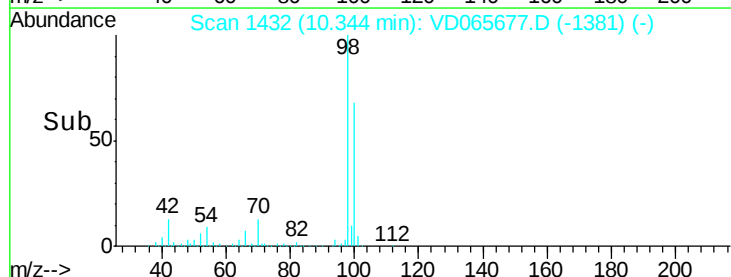
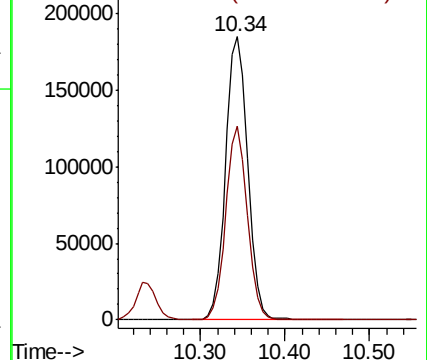
Ion Ratio Lower Upper

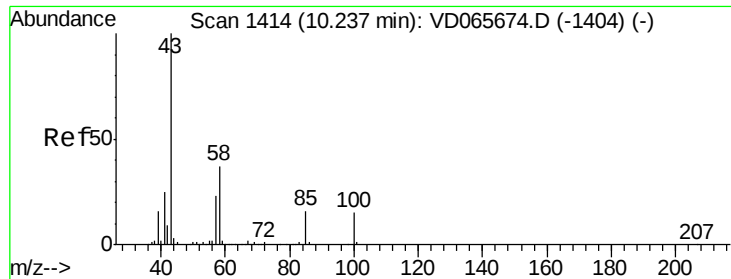
98 100

100 66.1 52.2 78.4



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





#51

4-Methyl-2-Pentanone

Concen: 235.115 ug/l

RT: 10.23 min Scan# 1413

Delta R.T. -0.01 min

Lab File: VD065677.D

Acq: 24 Apr 2020 15:49

Instrument :

MSVOA\_D

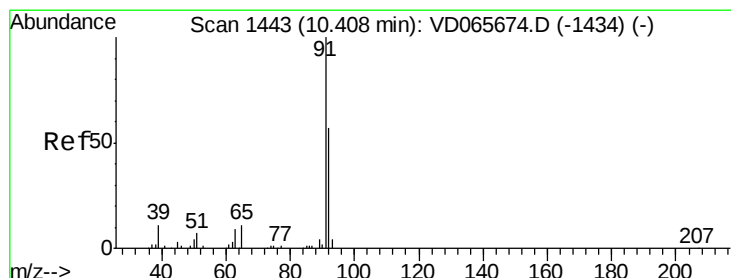
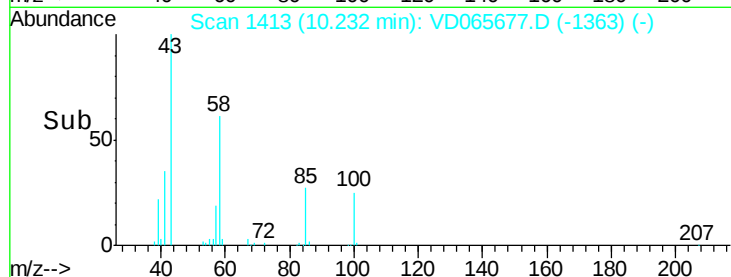
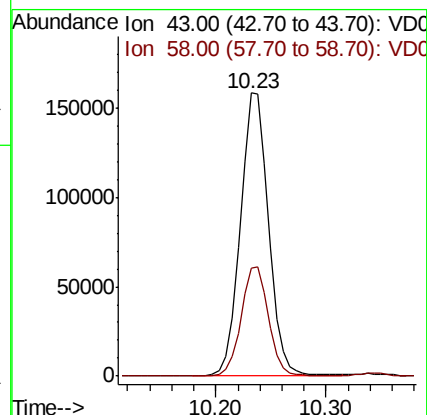
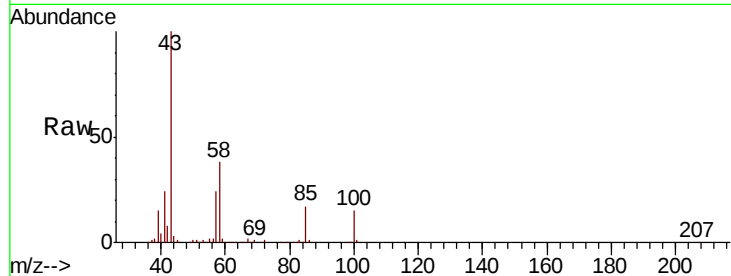
ClientSampleId :

Tot Ion: 43 Resp: 285078

Ion Ratio Lower Upper

43 100

58 37.5 28.9 43.3



#52

Toluene

Concen: 51.009 ug/l

RT: 10.41 min Scan# 1443

Delta R.T. 0.00 min

Lab File: VD065677.D

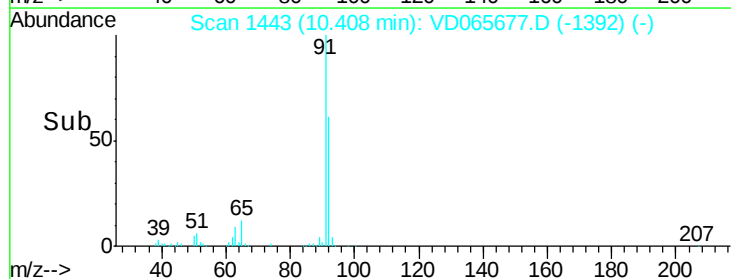
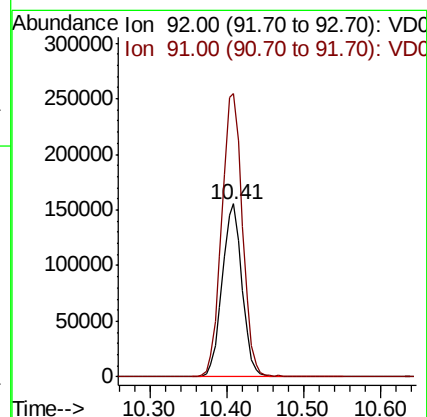
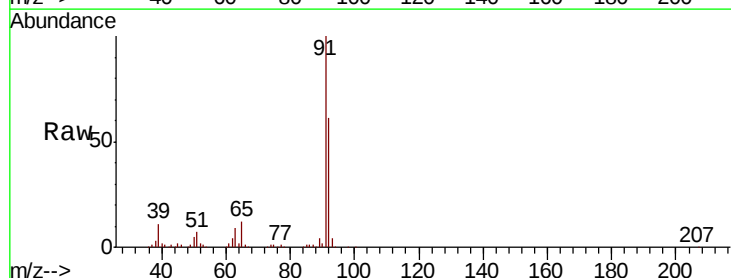
Acq: 24 Apr 2020 15:49

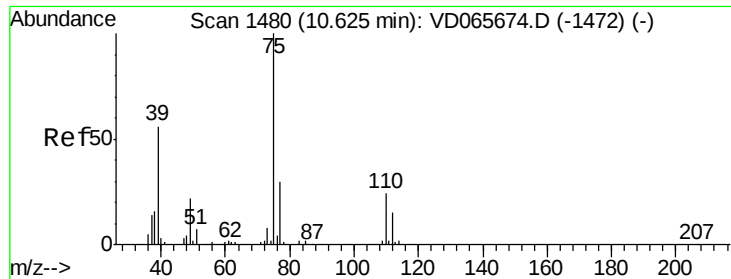
Tgt Ion: 92 Resp: 276466

Ion Ratio Lower Upper

92 100

91 171.3 139.2 208.8

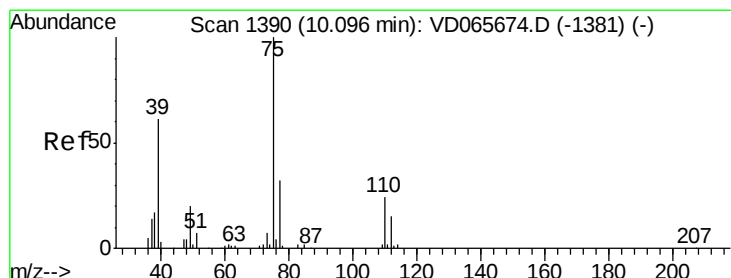
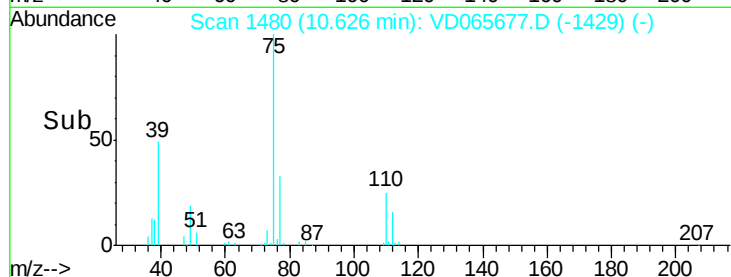
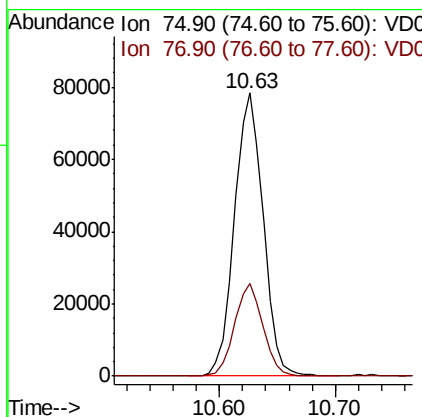
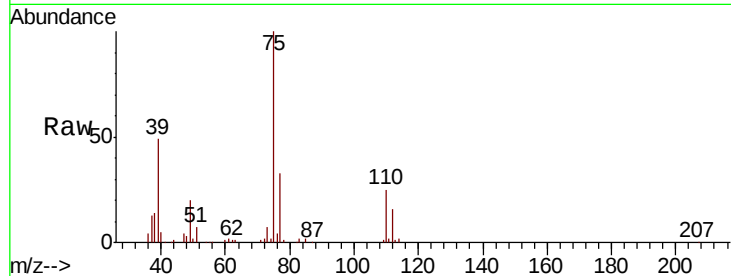




#53  
t-1,3-Dichloropropene  
Concen: 49.131 ug/l  
RT: 10.63 min Scan# 1480  
Delta R.T. 0.00 min  
Lab File: VD065677.D  
Acq: 24 Apr 2020 15:49

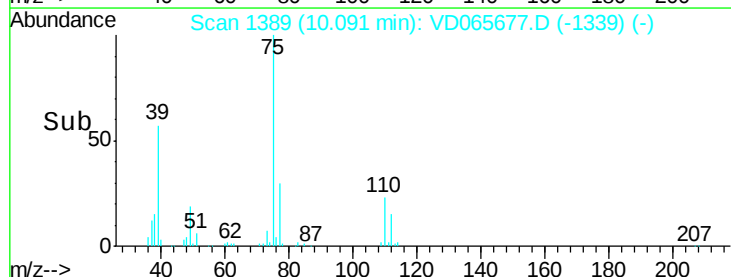
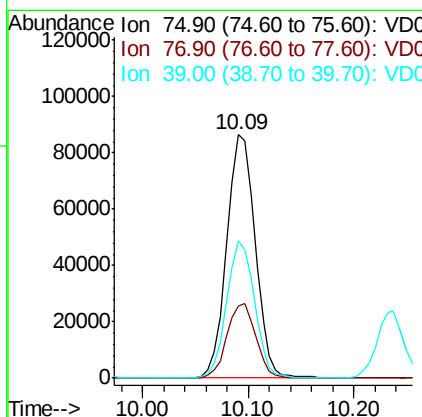
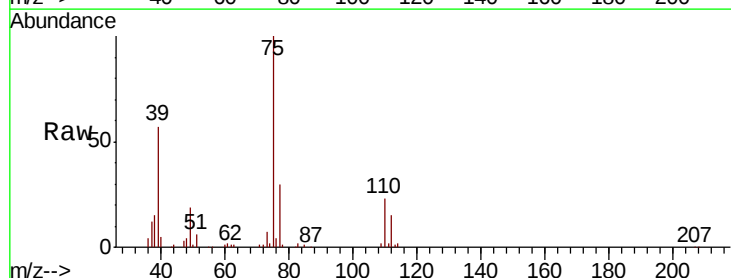
Instrument :  
MSVOA\_D  
ClientSampled :

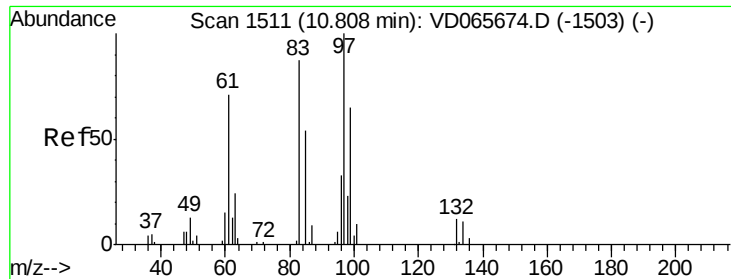
Tot Ion: 75 Resp: 135317  
Ion Ratio Lower Upper  
75 100  
77 32.6 25.0 37.6



#54  
cis-1,3-Dichloropropene  
Concen: 49.074 ug/l  
RT: 10.09 min Scan# 1389  
Delta R.T. -0.01 min  
Lab File: VD065677.D  
Acq: 24 Apr 2020 15:49

Tgt Ion: 75 Resp: 161645  
Ion Ratio Lower Upper  
75 100  
77 29.7 25.4 38.0  
39 56.4 48.5 72.7





#55

1,1,2-Trichloroethane

Concen: 46.295 ug/l

RT: 10.80 min Scan# 1510

Delta R.T. -0.01 min

Lab File: VD065677.D

Acq: 24 Apr 2020 15:49

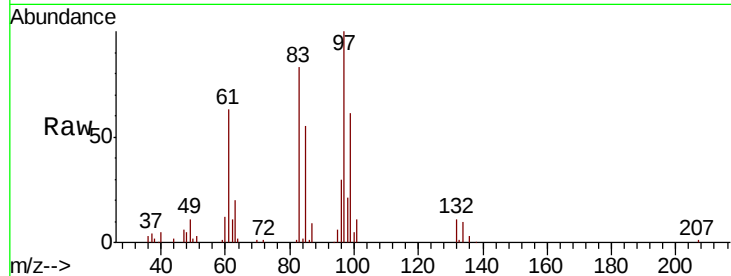
Instrument :

MSVOA\_D

ClientSampleId :

Tot Ion: 97 Resp: 73170

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 83  | 83.0  | 69.6  | 104.4 |
| 85  | 55.4  | 43.5  | 65.3  |
| 99  | 60.7  | 51.7  | 77.5  |

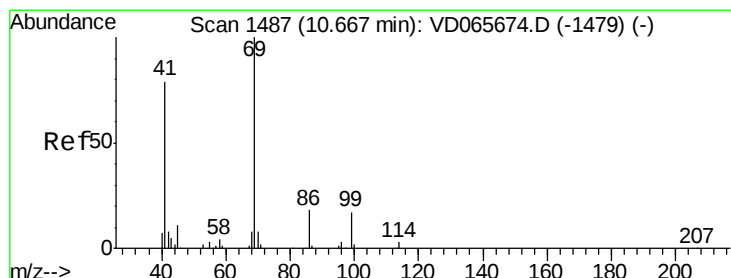
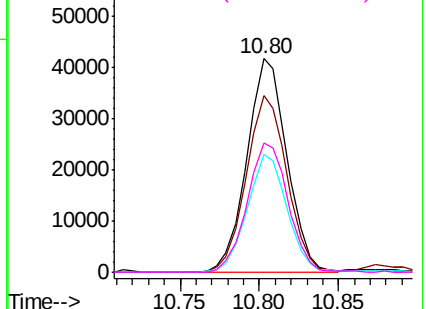
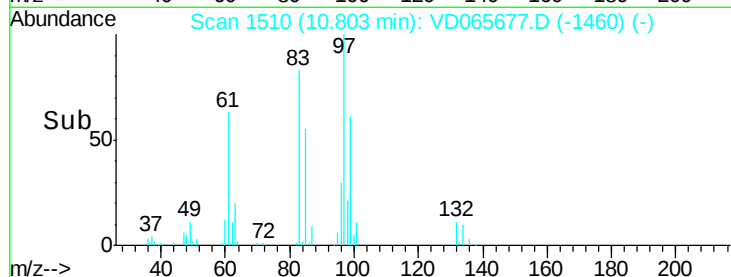


Abundance Ion 96.90 (96.60 to 97.60): VDC

Ion 82.90 (82.60 to 83.60): VDC

Ion 84.90 (84.60 to 85.60): VDC

Ion 98.90 (98.60 to 99.60): VDC



#56

Ethyl methacrylate

Concen: 44.441 ug/l

RT: 10.67 min Scan# 1487

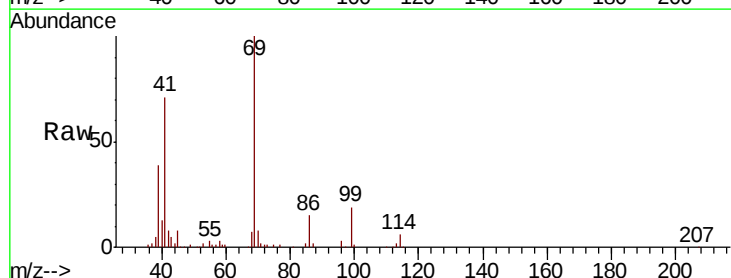
Delta R.T. 0.00 min

Lab File: VD065677.D

Acq: 24 Apr 2020 15:49

Tgt Ion: 69 Resp: 85374

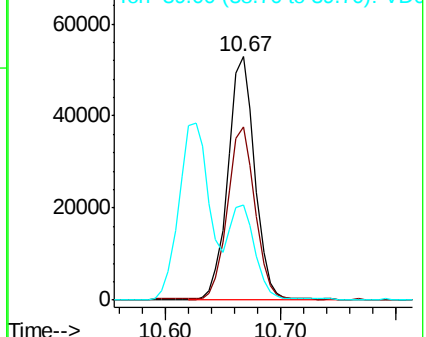
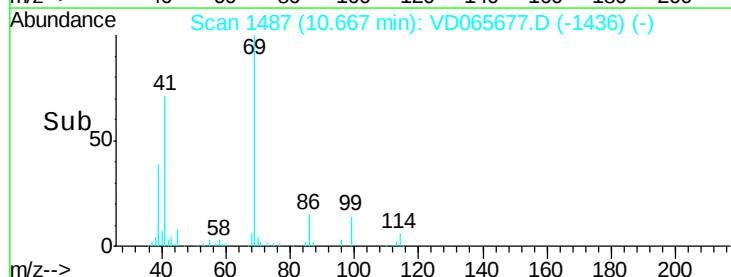
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 69  | 100   |       |       |
| 41  | 71.8  | 62.3  | 93.5  |
| 39  | 38.0  | 34.4  | 51.6  |

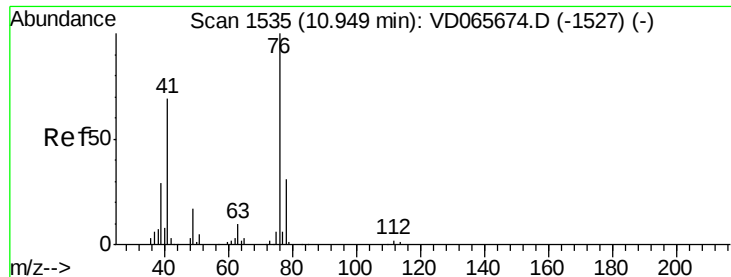


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

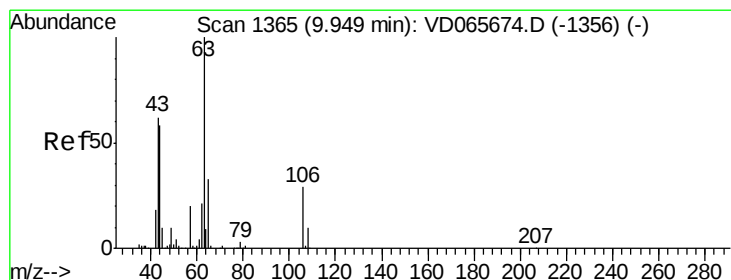
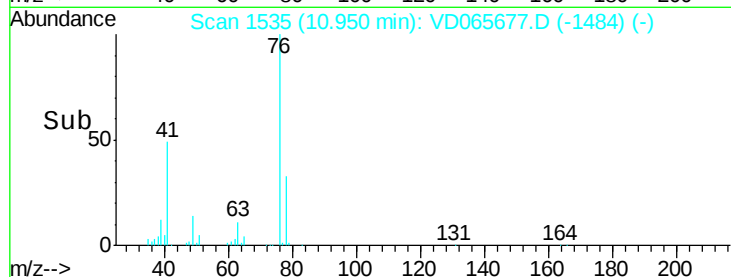
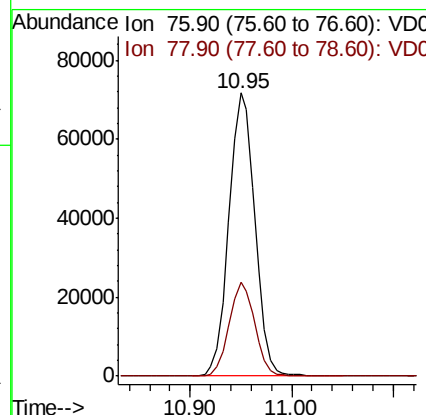
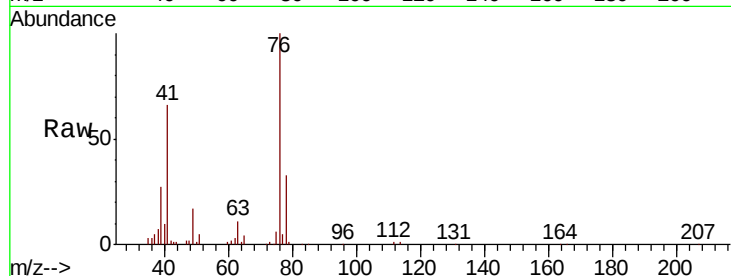




#57  
 1,3-Dichloropropane  
 Concen: 47.729 ug/l  
 RT: 10.95 min Scan# 1535  
 Delta R.T. 0.00 min  
 Lab File: VD065677.D  
 Acq: 24 Apr 2020 15:49

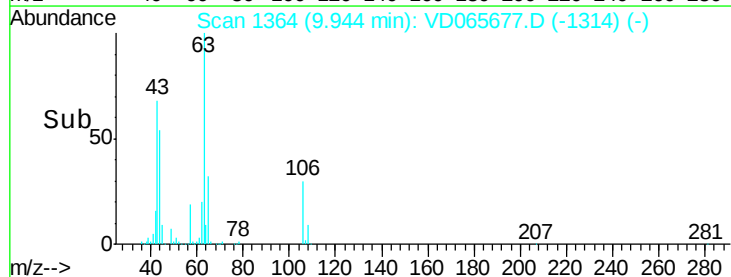
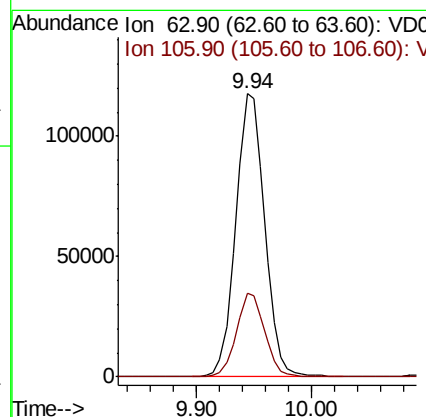
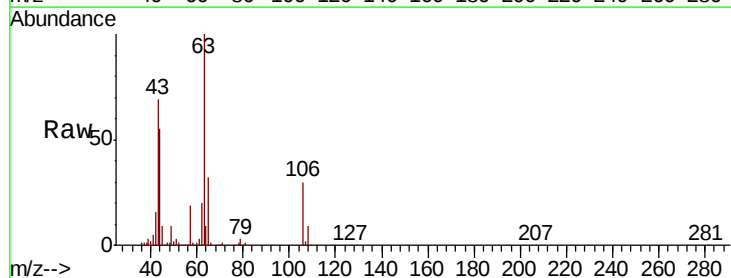
Instrument :  
 MSVOA\_D  
 ClientSampled :

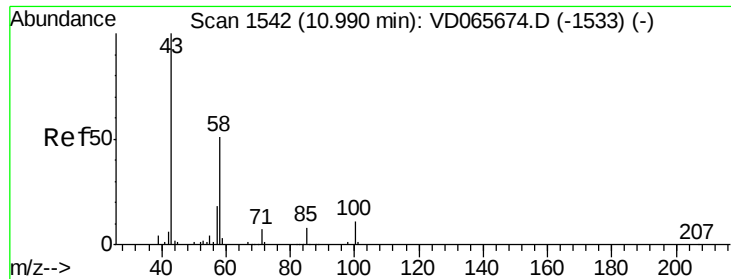
Tot Ion: 76 Resp: 127448  
 Ion Ratio Lower Upper  
 76 100  
 78 32.5 25.9 38.9



#58  
 2-Chloroethyl Vinyl ether  
 Concen: 244.158 ug/l  
 RT: 9.94 min Scan# 1364  
 Delta R.T. -0.01 min  
 Lab File: VD065677.D  
 Acq: 24 Apr 2020 15:49

Tgt Ion: 63 Resp: 204059  
 Ion Ratio Lower Upper  
 63 100  
 106 28.7 22.9 34.3

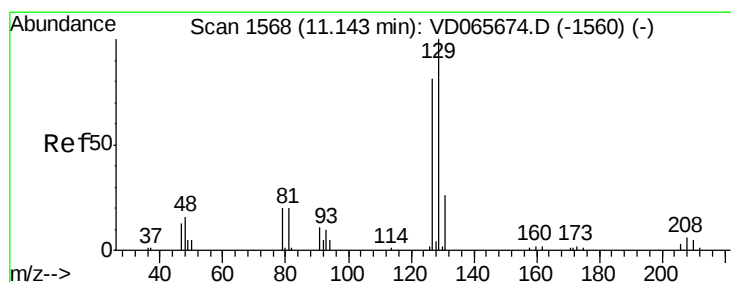
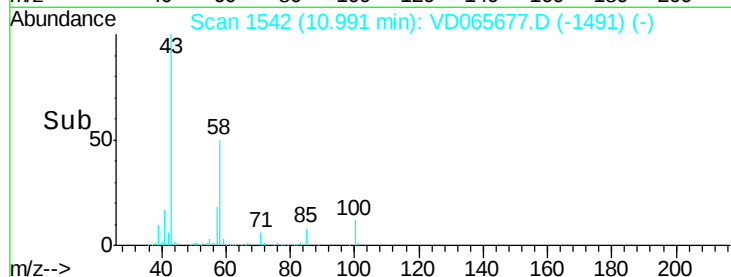
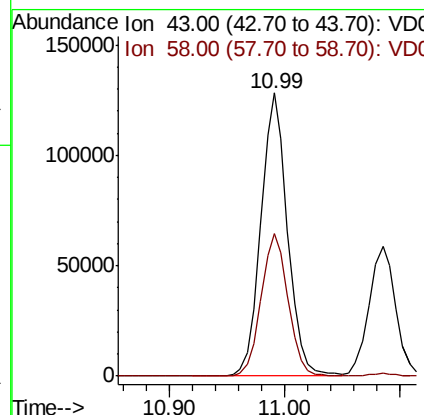
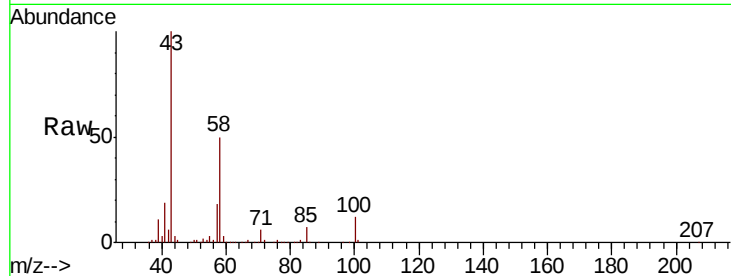




#59  
2-Hexanone  
Concen: 248.060 ug/l  
RT: 10.99 min Scan# 1542  
Delta R.T. 0.00 min  
Lab File: VD065677.D  
Acq: 24 Apr 2020 15:49

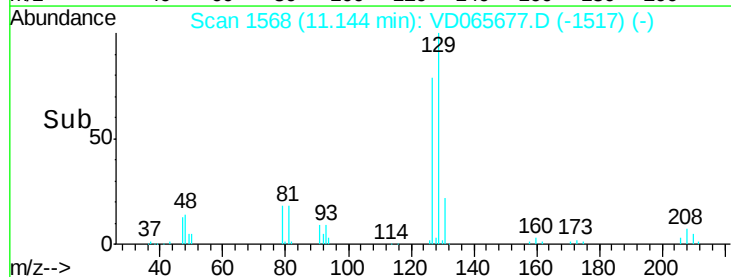
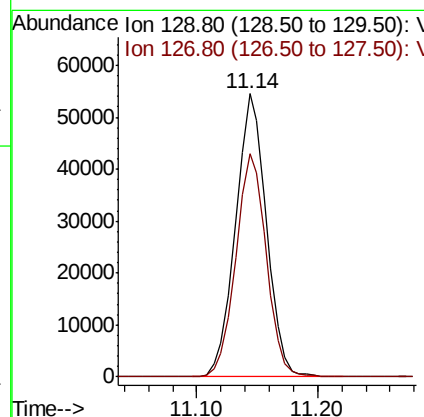
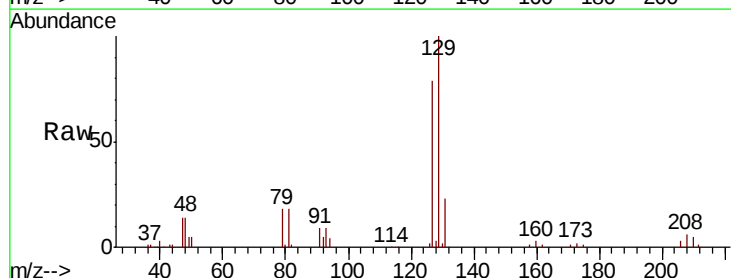
Instrument :  
MSVOA\_D  
ClientSampled :

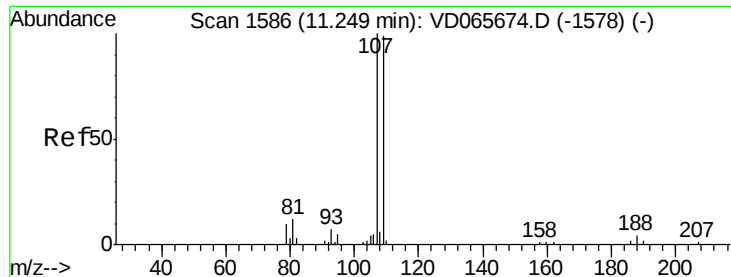
Tot Ion: 43 Resp: 206368  
Ion Ratio Lower Upper  
43 100  
58 51.0 24.9 74.7



#60  
Dibromochloromethane  
Concen: 45.678 ug/l  
RT: 11.14 min Scan# 1568  
Delta R.T. 0.00 min  
Lab File: VD065677.D  
Acq: 24 Apr 2020 15:49

Tgt Ion: 129 Resp: 96982  
Ion Ratio Lower Upper  
129 100  
127 77.9 39.5 118.5

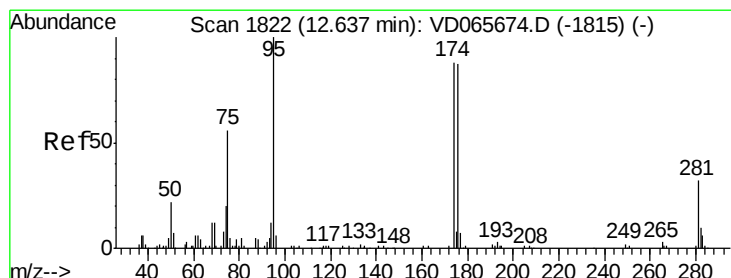
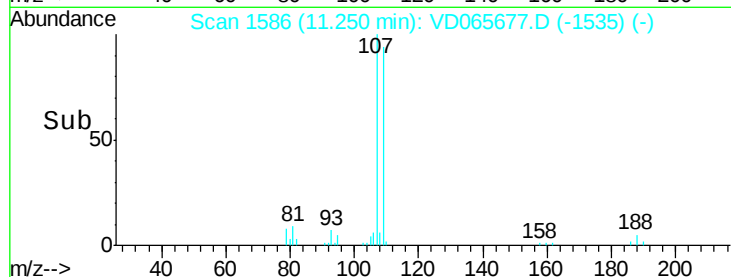
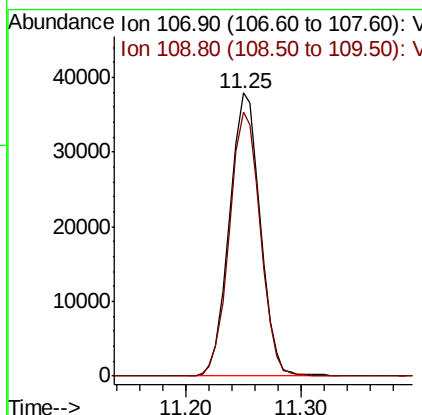
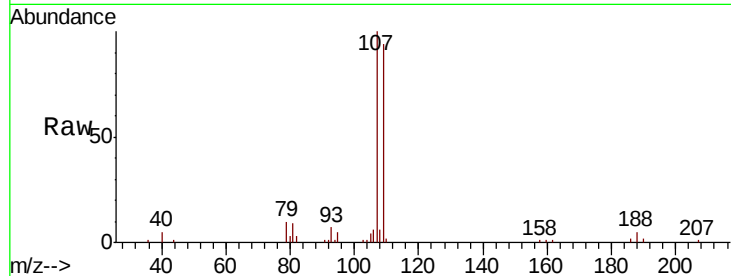




#61  
 1,2-Dibromoethane  
 Concen: 47.355 ug/l  
 RT: 11.25 min Scan# 1586  
 Delta R.T. 0.00 min  
 Lab File: VD065677.D  
 Acq: 24 Apr 2020 15:49

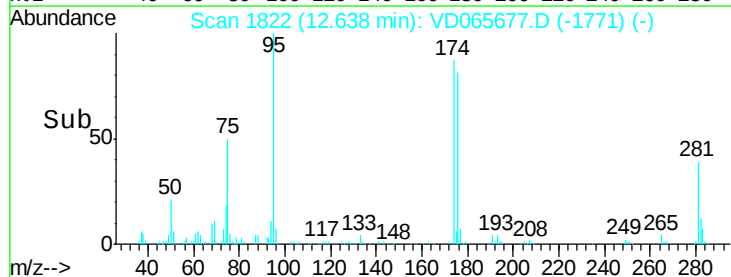
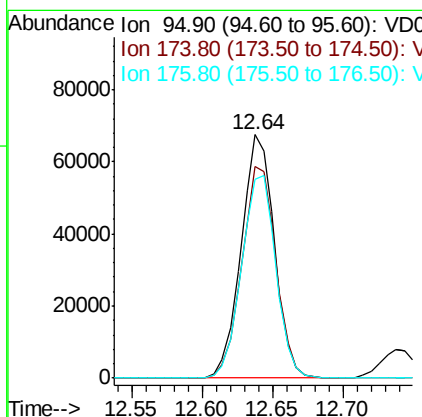
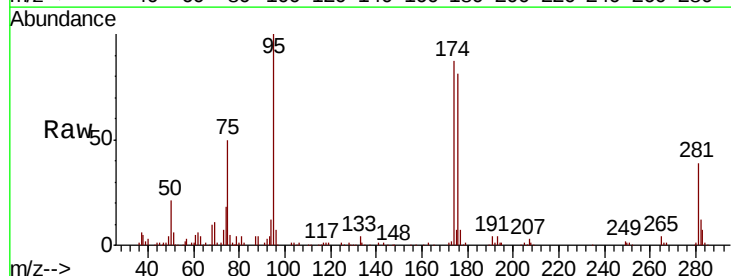
Instrument :  
 MSVOA\_D  
 ClientSampleId :

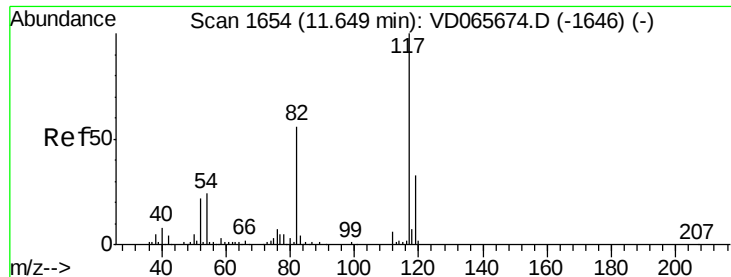
Tot Ion: 107 Resp: 70180  
 Ion Ratio Lower Upper  
 107 100  
 109 93.4 77.2 115.8



#62  
 4-Bromofluorobenzene  
 Concen: 47.649 ug/l  
 RT: 12.64 min Scan# 1822  
 Delta R.T. 0.00 min  
 Lab File: VD065677.D  
 Acq: 24 Apr 2020 15:49

Tgt Ion: 95 Resp: 111233  
 Ion Ratio Lower Upper  
 95 100  
 174 89.1 0.0 181.0  
 176 85.7 0.0 178.0

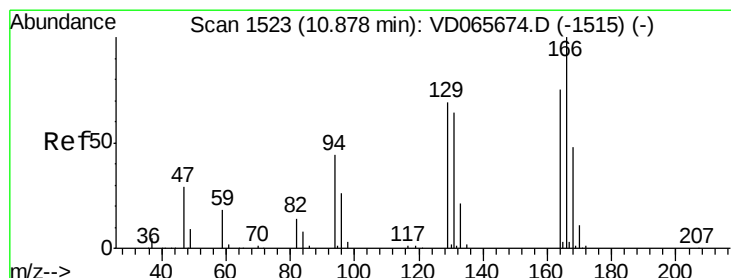
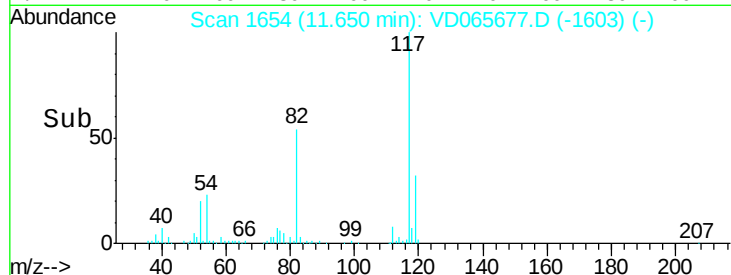
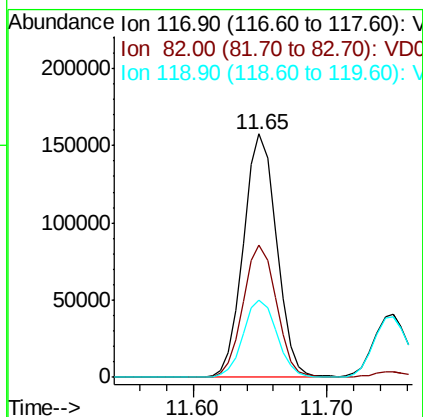
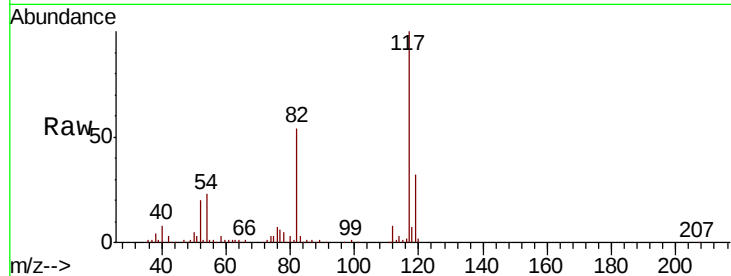




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. 0.00 min  
Lab File: VD065677.D  
Acq: 24 Apr 2020 15:49

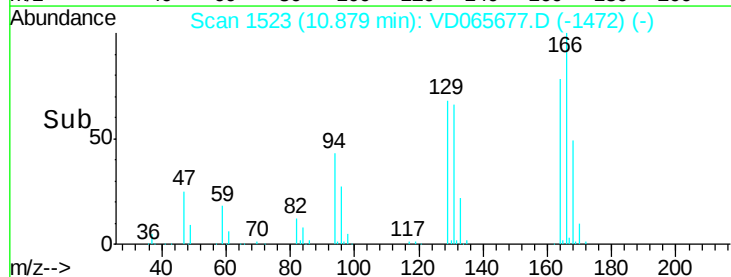
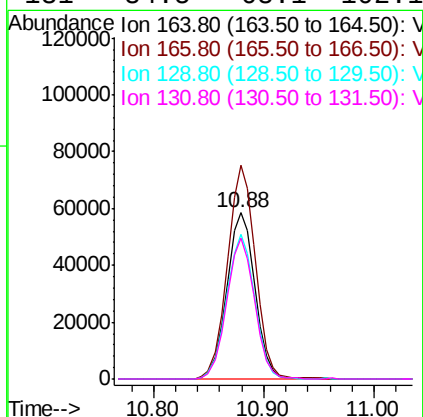
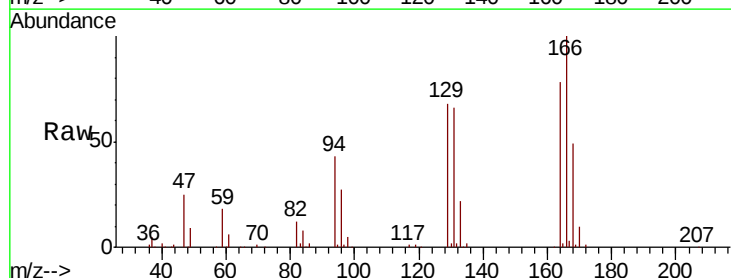
Instrument :  
MSVOA\_D  
ClientSampleId :

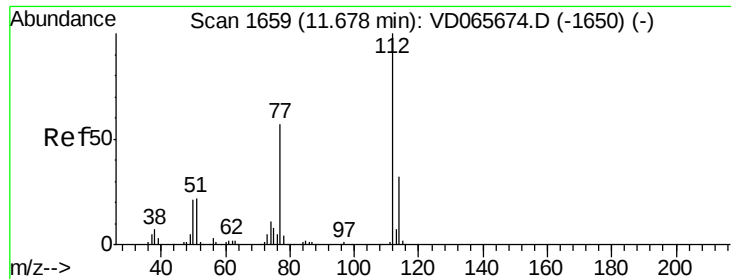
Tot Ion:117 Resp: 271261  
Ion Ratio Lower Upper  
117 100  
82 54.1 44.6 67.0  
119 31.8 26.2 39.2



#64  
Tetrachloroethene  
Concen: 50.604 ug/l  
RT: 10.88 min Scan# 1523  
Delta R.T. 0.00 min  
Lab File: VD065677.D  
Acq: 24 Apr 2020 15:49

Tgt Ion:164 Resp: 104547  
Ion Ratio Lower Upper  
164 100  
166 128.4 106.1 159.1  
129 87.1 73.0 109.4  
131 84.5 68.1 102.1

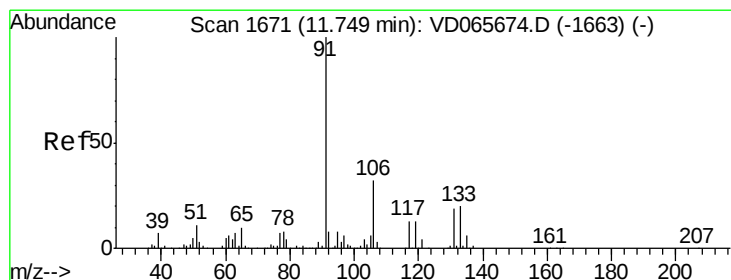
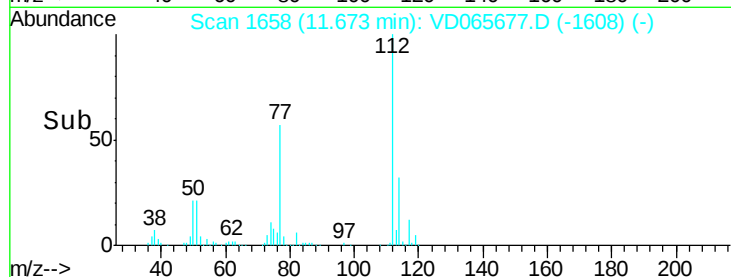
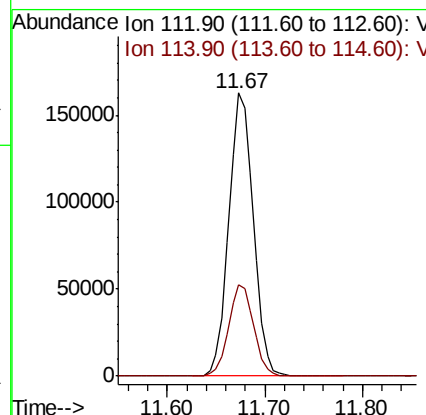
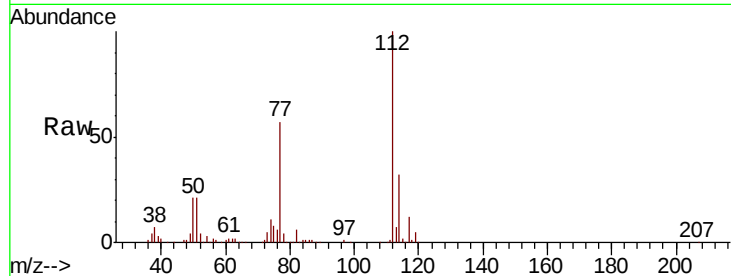




#65  
Chlorobenzene  
Concen: 49.025 ug/l  
RT: 11.67 min Scan# 1658  
Delta R.T. -0.01 min  
Lab File: VD065677.D  
Acq: 24 Apr 2020 15:49

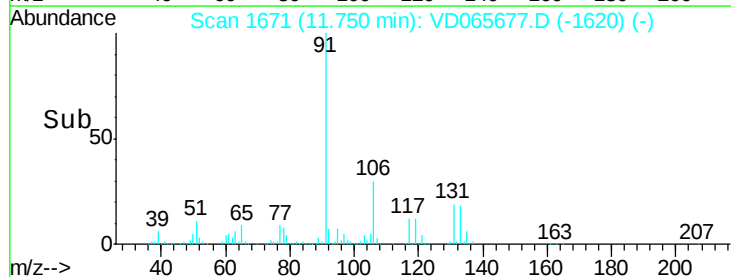
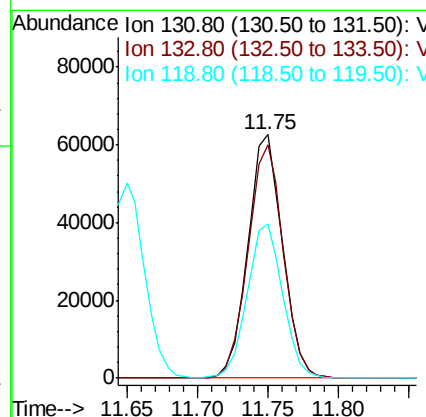
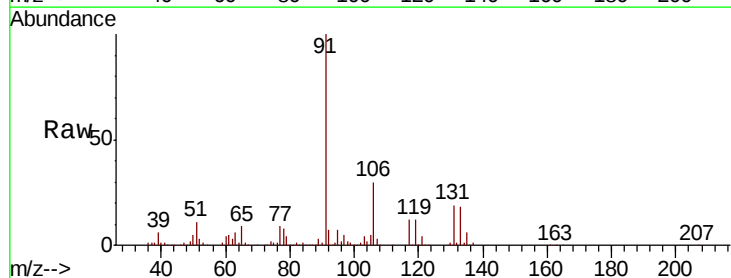
Instrument :  
MSVOA\_D  
ClientSampleId :

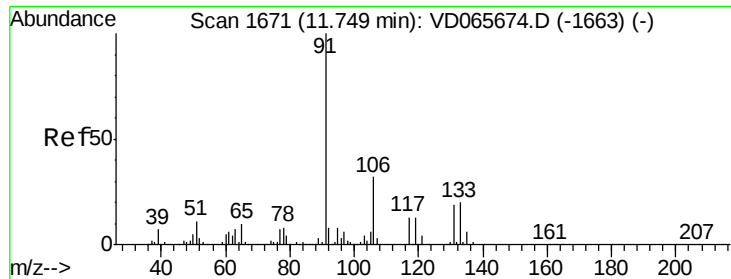
Tot Ion:112 Resp: 283676  
Ion Ratio Lower Upper  
112 100  
114 32.1 25.4 38.2



#66  
1,1,1,2-Tetrachloroethane  
Concen: 48.178 ug/l  
RT: 11.75 min Scan# 1671  
Delta R.T. 0.00 min  
Lab File: VD065677.D  
Acq: 24 Apr 2020 15:49

Tgt Ion:131 Resp: 108073  
Ion Ratio Lower Upper  
131 100  
133 97.2 48.9 146.7  
119 64.9 32.6 97.7

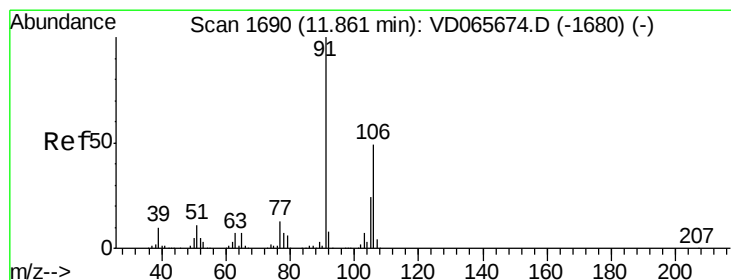
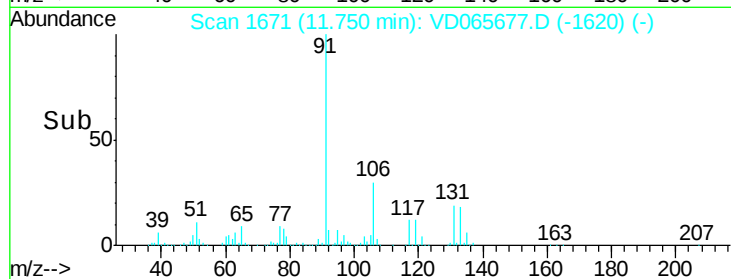
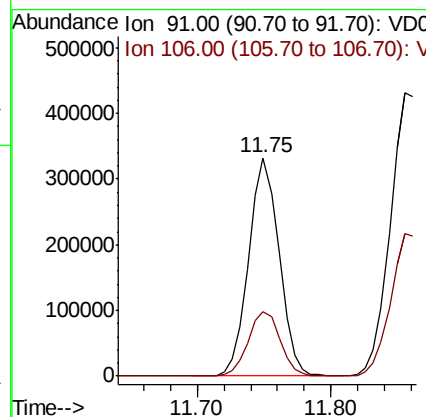
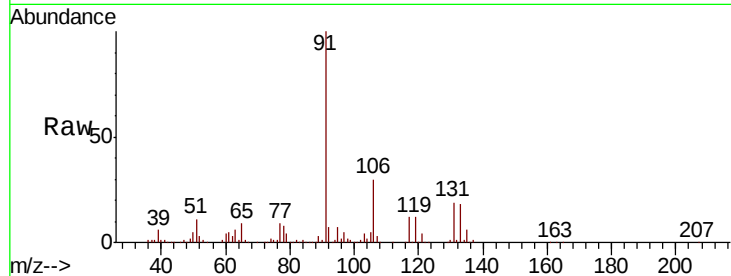




#67  
Ethyl Benzene  
Concen: 53.091 ug/l  
RT: 11.75 min Scan# 1671  
Delta R.T. 0.00 min  
Lab File: VD065677.D  
Acq: 24 Apr 2020 15:49

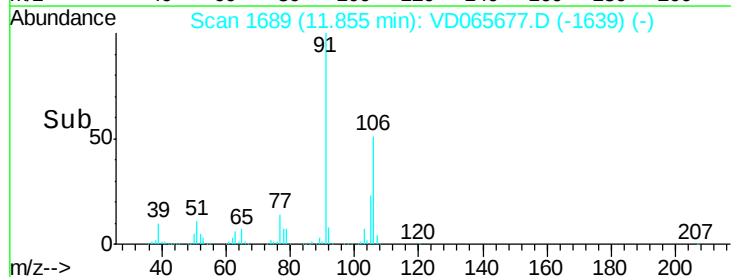
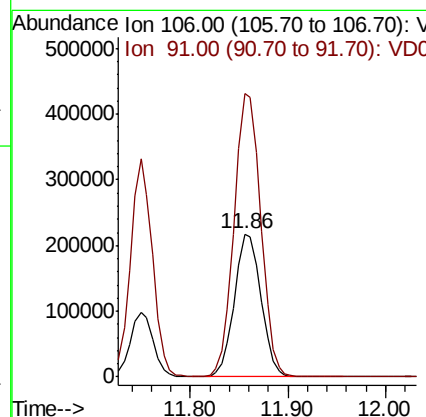
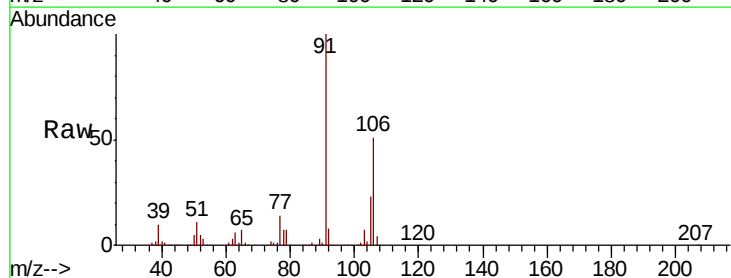
Instrument :  
MSVOA\_D  
ClientSampled :

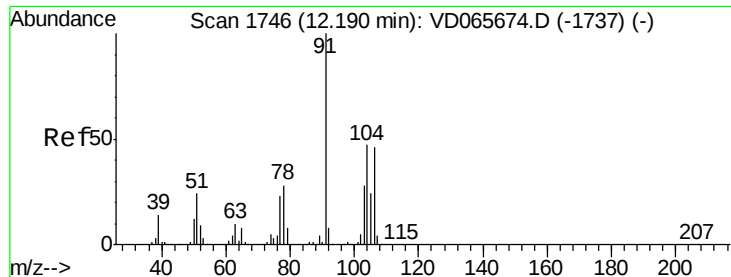
Tot Ion: 91 Resp: 522965  
Ion Ratio Lower Upper  
91 100  
106 29.6 25.3 37.9



#68  
m/p-Xylenes  
Concen: 107.742 ug/l  
RT: 11.86 min Scan# 1689  
Delta R.T. -0.01 min  
Lab File: VD065677.D  
Acq: 24 Apr 2020 15:49

Tgt Ion: 106 Resp: 412367  
Ion Ratio Lower Upper  
106 100  
91 198.9 163.6 245.4

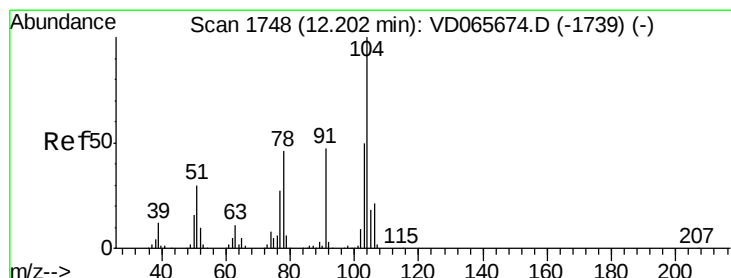
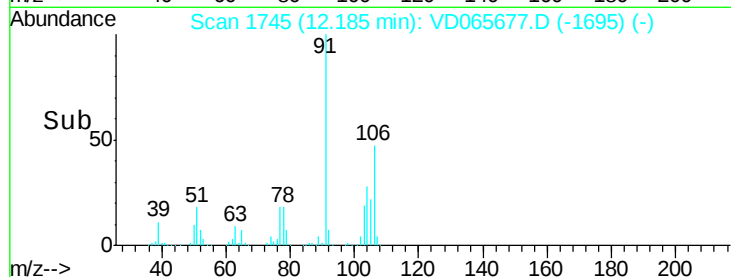
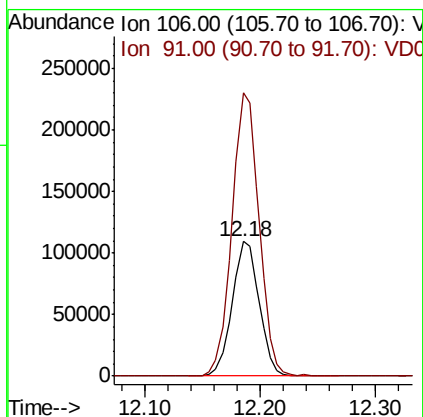
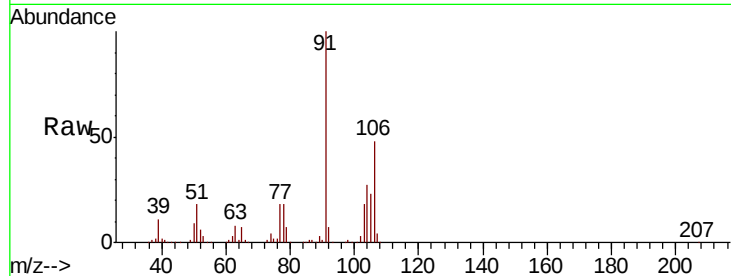




#69  
o-Xylene  
Concen: 53.878 ug/l  
RT: 12.18 min Scan# 1745  
Delta R.T. -0.01 min  
Lab File: VD065677.D  
Acq: 24 Apr 2020 15:49

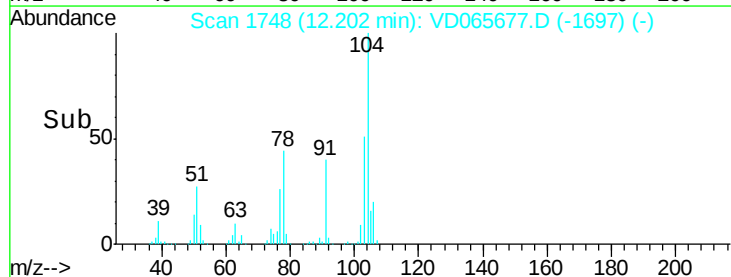
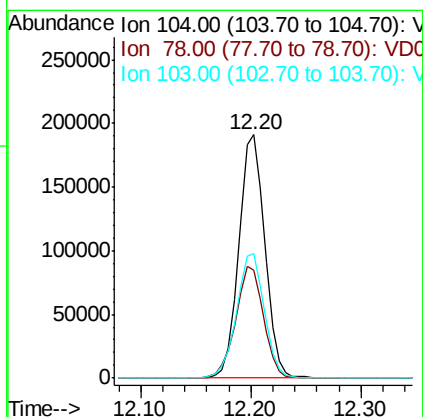
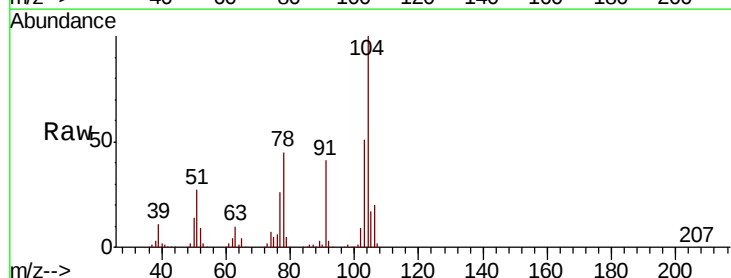
Instrument :  
MSVOA\_D  
ClientSampled :

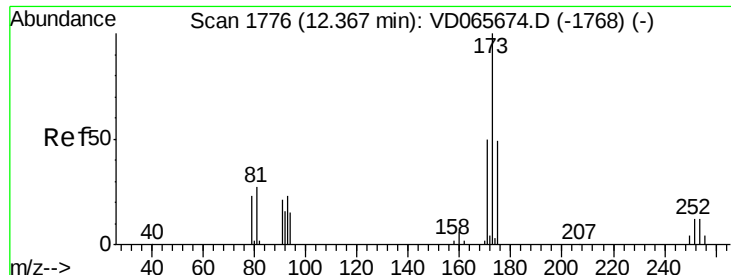
Tot Ion:106 Resp: 177158  
Ion Ratio Lower Upper  
106 100  
91 210.7 109.9 329.8



#70  
Styrene  
Concen: 48.640 ug/l  
RT: 12.20 min Scan# 1748  
Delta R.T. 0.00 min  
Lab File: VD065677.D  
Acq: 24 Apr 2020 15:49

Tgt Ion:104 Resp: 315975  
Ion Ratio Lower Upper  
104 100  
78 49.3 39.6 59.4  
103 55.0 43.7 65.5

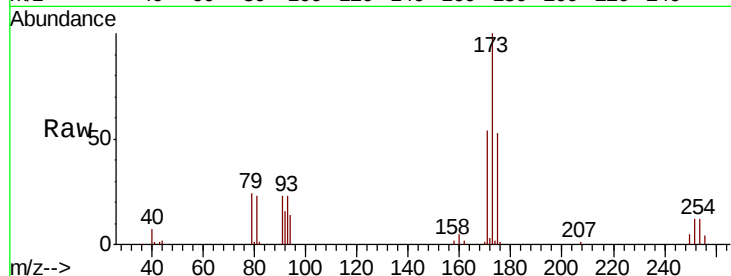




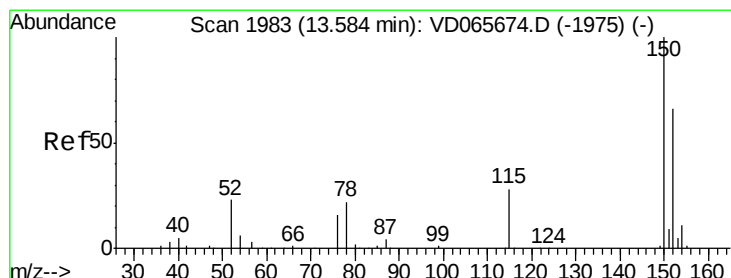
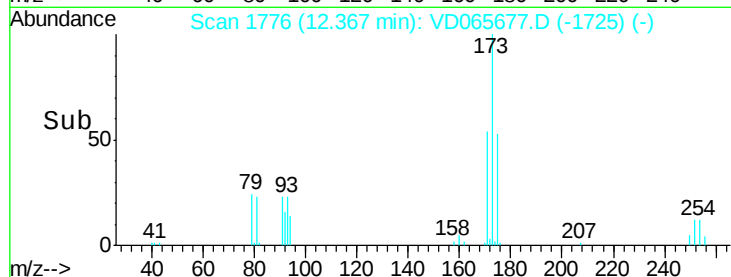
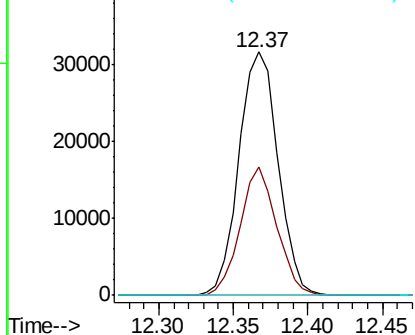
#71  
Bromoform  
Concen: 46.116 ug/l  
RT: 12.37 min Scan# 1776  
Delta R.T. 0.00 min  
Lab File: VD065677.D  
Acq: 24 Apr 2020 15:49

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion:173 Resp: 57516  
Ion Ratio Lower Upper  
173 100  
175 49.3 24.3 73.0  
254 0.0 0.0 0.0

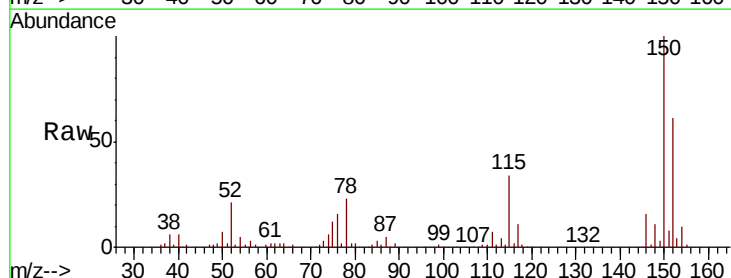


Abundance Ion 172.70 (172.40 to 173.40): V  
Ion 174.70 (174.40 to 175.40): V  
Ion 254.40 (254.10 to 255.10): V

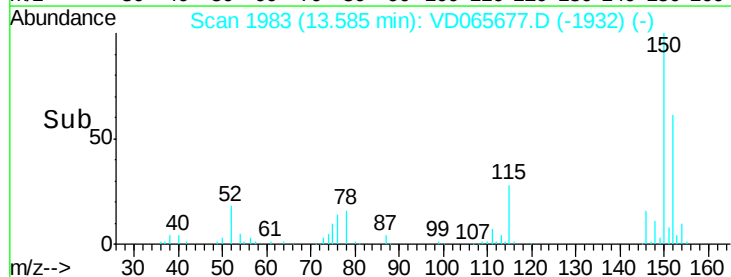
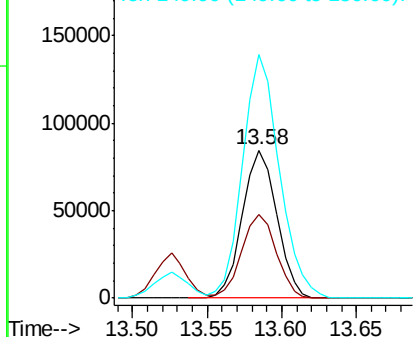


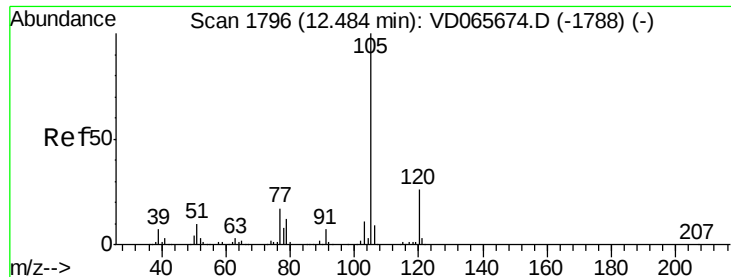
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1983  
Delta R.T. 0.00 min  
Lab File: VD065677.D  
Acq: 24 Apr 2020 15:49

Tgt Ion:152 Resp: 135779  
Ion Ratio Lower Upper  
152 100  
115 56.6 28.1 84.2  
150 175.0 0.0 343.2



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

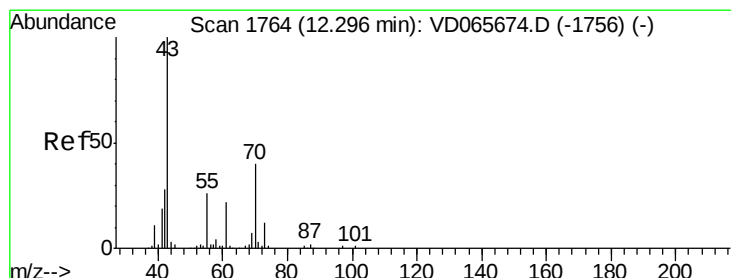
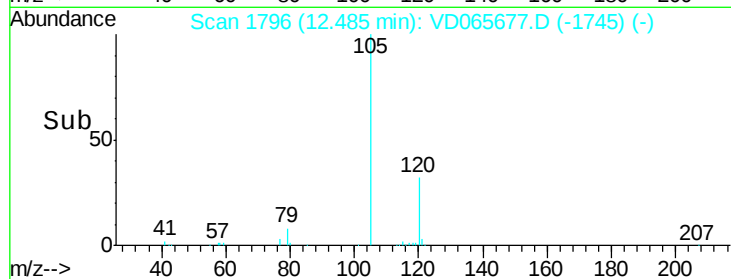
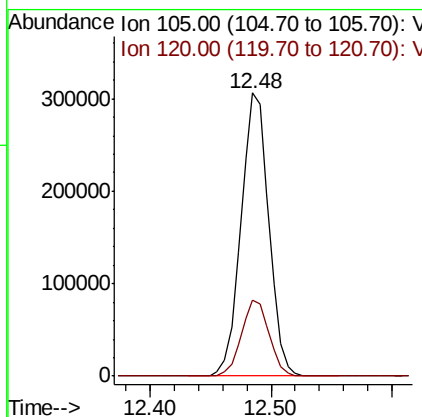
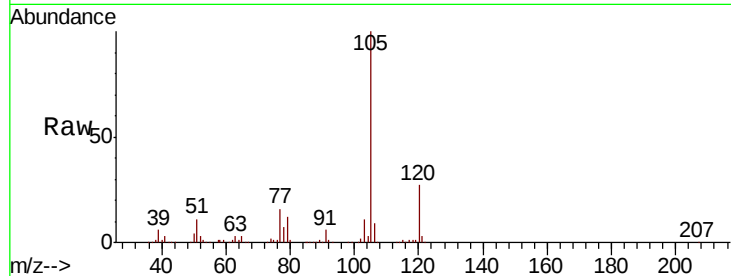




#73  
Isopropylbenzene  
Concen: 57.926 ug/l  
RT: 12.48 min Scan# 1796  
Delta R.T. 0.00 min  
Lab File: VD065677.D  
Acq: 24 Apr 2020 15:49

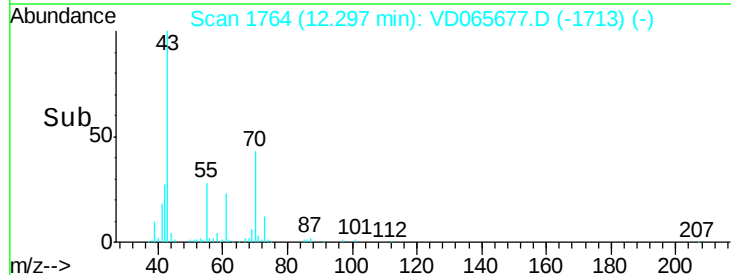
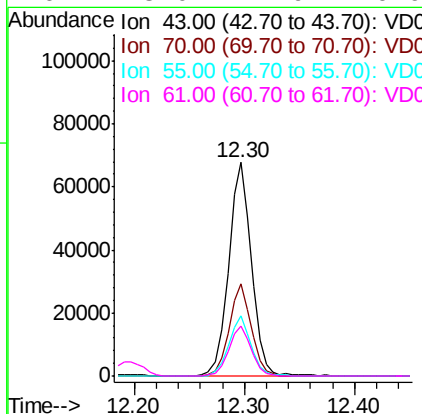
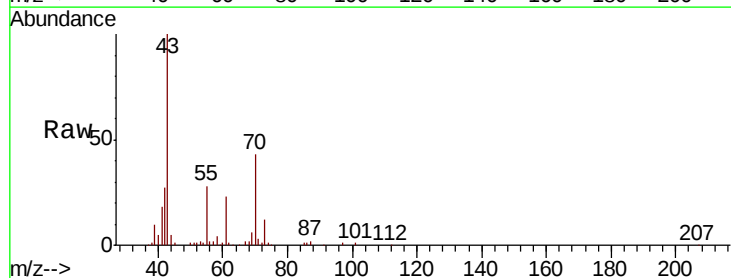
Instrument :  
MSVOA\_D  
ClientSampleId :

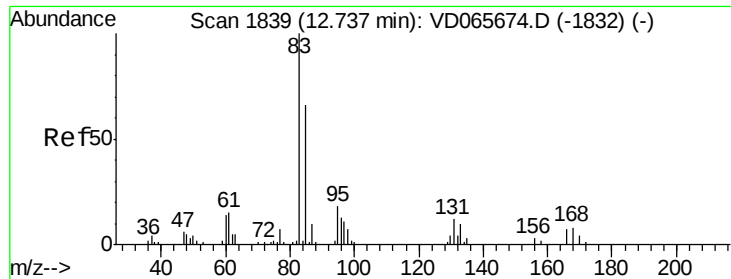
Tot Ion:105 Resp: 491337  
Ion Ratio Lower Upper  
105 100  
120 26.8 13.1 39.3



#74  
N-ethyl acetate  
Concen: 50.539 ug/l  
RT: 12.30 min Scan# 1764  
Delta R.T. 0.00 min  
Lab File: VD065677.D  
Acq: 24 Apr 2020 15:49

Tgt Ion: 43 Resp: 97937  
Ion Ratio Lower Upper  
43 100  
70 41.4 32.2 48.4  
55 27.2 21.4 32.2  
61 23.0 17.9 26.9





#75

1,1,2,2-Tetrachloroethane

Concen: 48.137 ug/l

RT: 12.74 min Scan# 1839

Delta R.T. 0.00 min

Lab File: VD065677.D

Acq: 24 Apr 2020 15:49

Instrument :

MSVOA\_D

ClientSampleId :

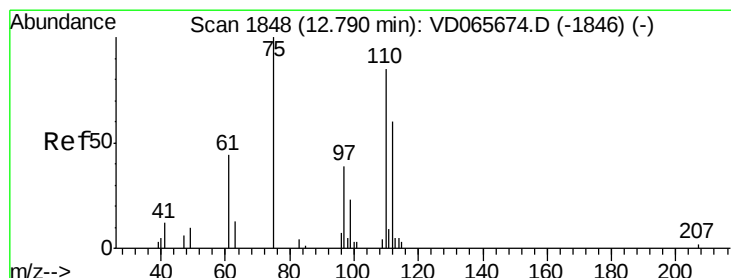
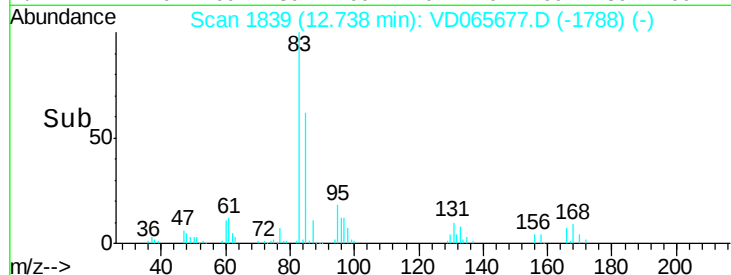
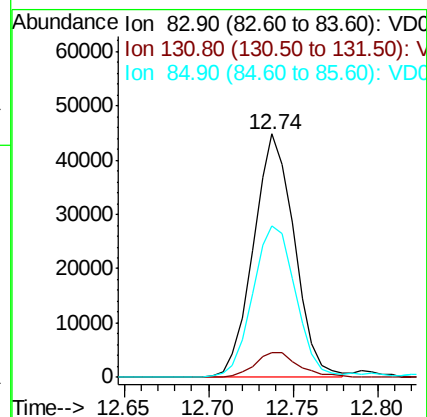
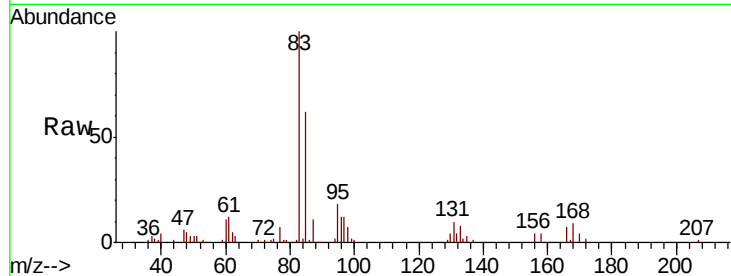
Tot Ion: 83 Resp: 75569

Ion Ratio Lower Upper

83 100

131 11.1 5.5 16.7

85 66.7 32.1 96.3



#76

1,2,3-Trichloropropane

Concen: 94.486 ug/l

RT: 12.79 min Scan# 1848

Delta R.T. 0.00 min

Lab File: VD065677.D

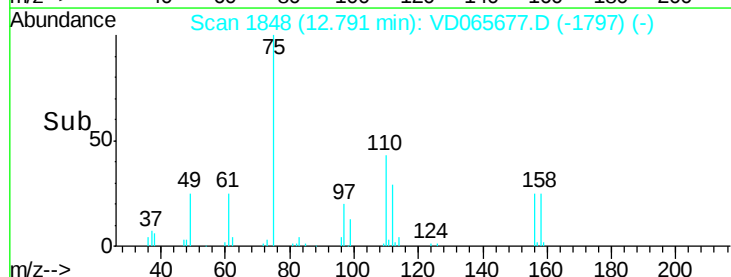
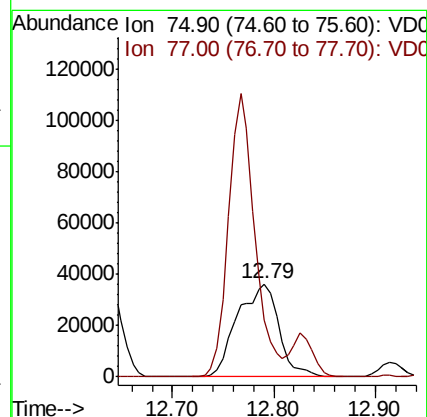
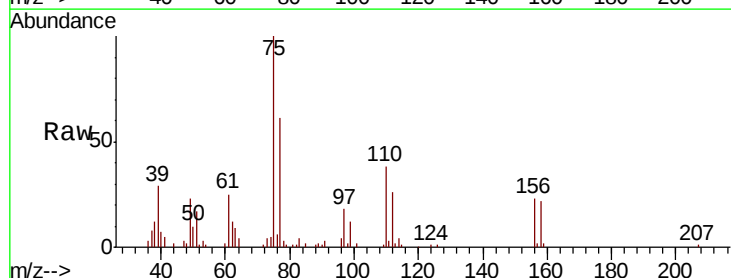
Acq: 24 Apr 2020 15:49

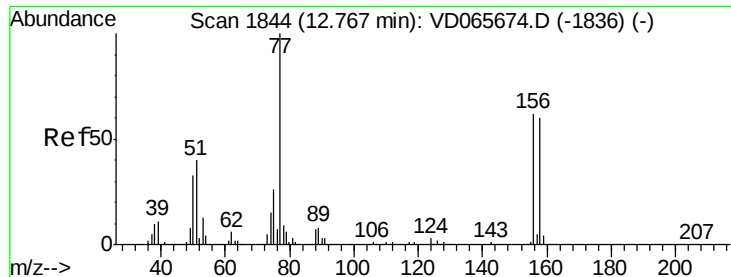
Tgt Ion: 75 Resp: 103193

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0





#77

Bromobenzene

Concen: 52.304 ug/l

RT: 12.77 min Scan# 1844

Delta R.T. 0.00 min

Lab File: VD065677.D

Acq: 24 Apr 2020 15:49

Instrument :

MSVOA\_D

ClientSampled :

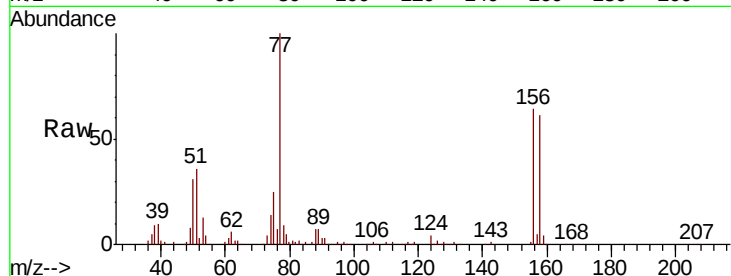
Tot Ion:156 Resp: 116418

Ion Ratio Lower Upper

156 100

77 171.5 87.3 261.9

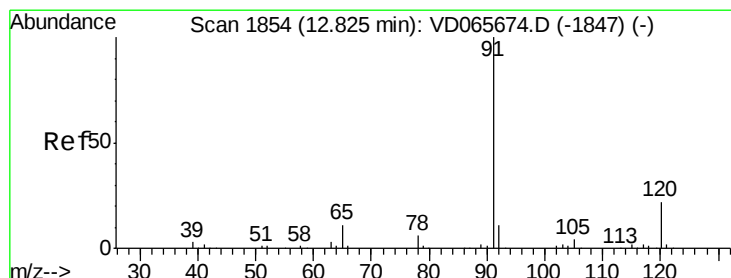
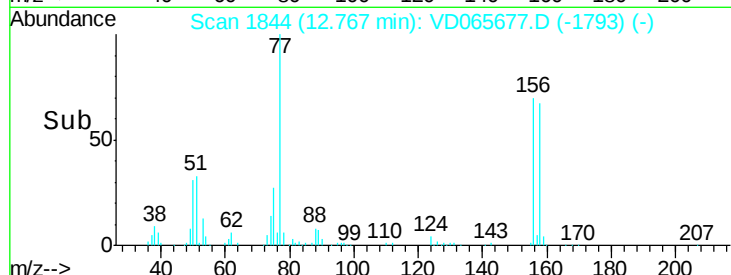
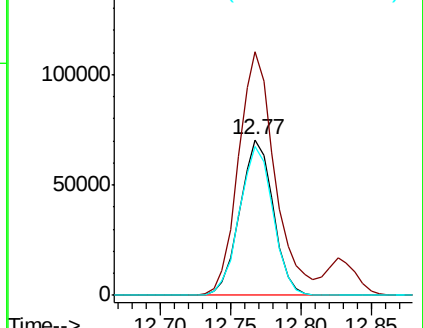
158 96.5 47.8 143.4



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): V

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 57.260 ug/l

RT: 12.83 min Scan# 1854

Delta R.T. 0.00 min

Lab File: VD065677.D

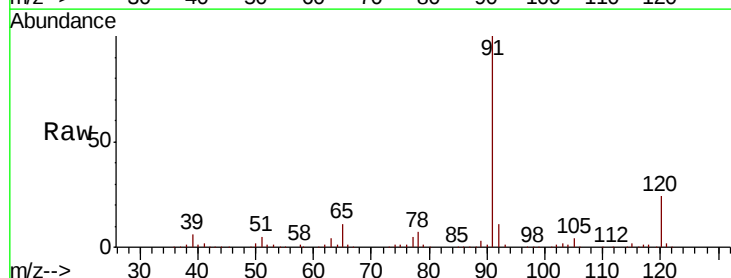
Acq: 24 Apr 2020 15:49

Tgt Ion: 91 Resp: 598150

Ion Ratio Lower Upper

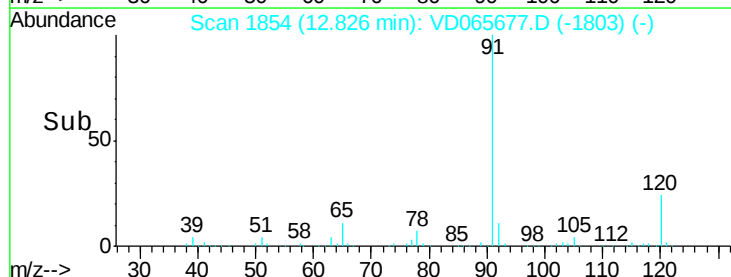
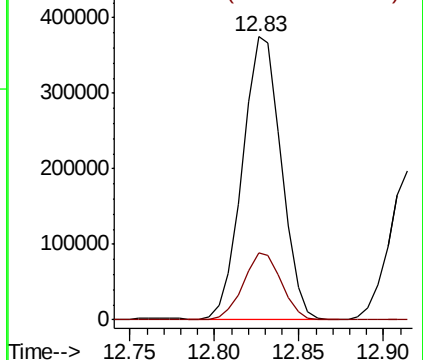
91 100

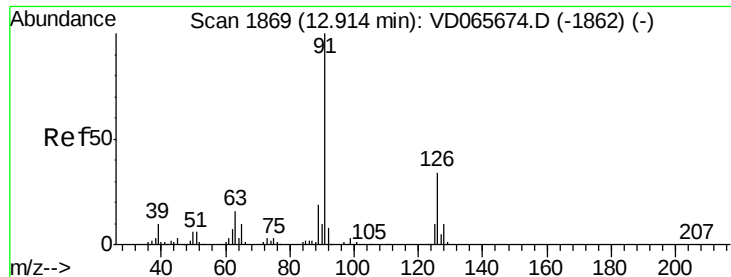
120 23.3 11.4 34.2



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.00 (119.70 to 120.70): V

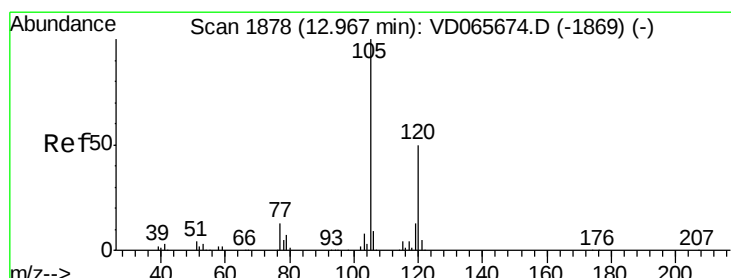
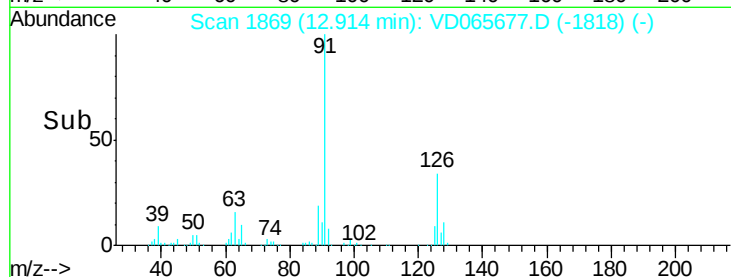
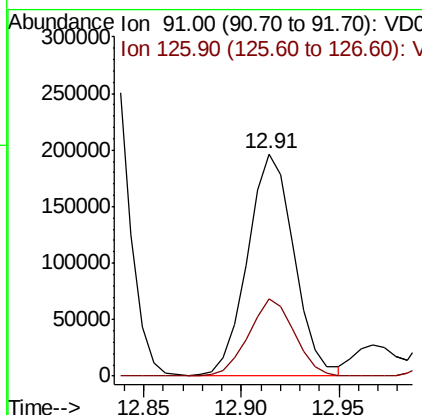
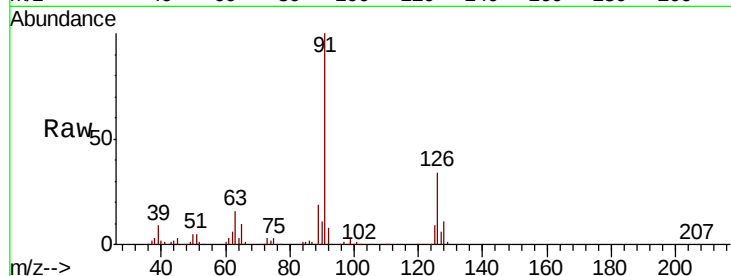




#79  
 2-Chlorotoluene  
 Concen: 54.328 ug/l  
 RT: 12.91 min Scan# 1869  
 Delta R.T. 0.00 min  
 Lab File: VD065677.D  
 Acq: 24 Apr 2020 15:49

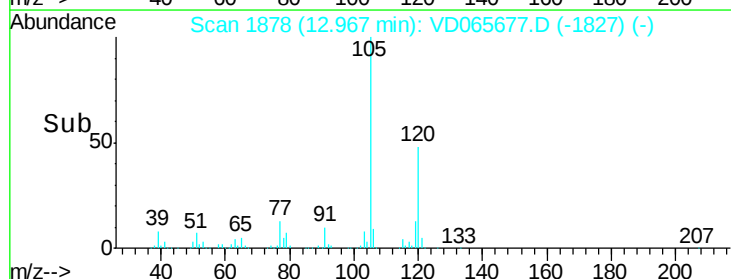
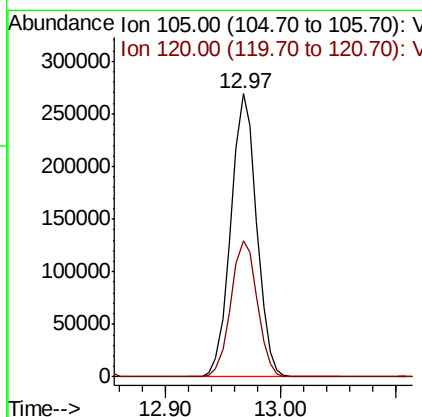
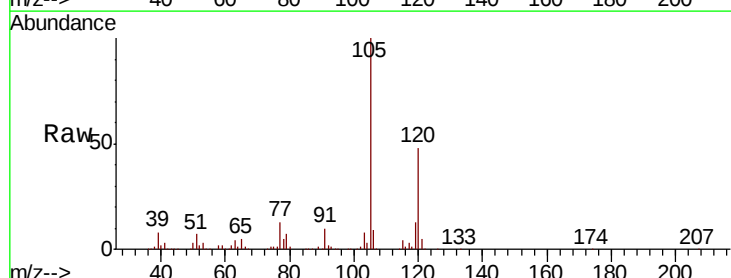
Instrument :  
 MSVOA\_D  
 ClientSampleId :

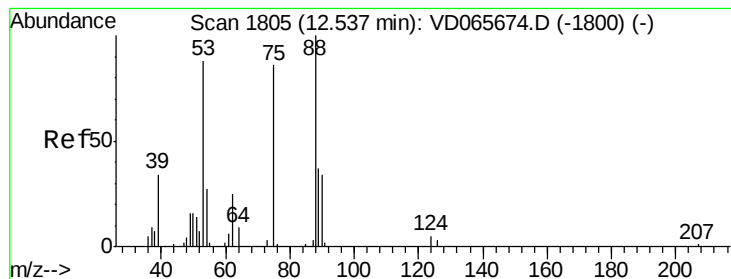
Tot Ion: 91 Resp: 323613  
 Ion Ratio Lower Upper  
 91 100  
 126 34.2 17.2 51.5



#80  
 1,3,5-Trimethylbenzene  
 Concen: 57.549 ug/l  
 RT: 12.97 min Scan# 1878  
 Delta R.T. 0.00 min  
 Lab File: VD065677.D  
 Acq: 24 Apr 2020 15:49

Tgt Ion:105 Resp: 415669  
 Ion Ratio Lower Upper  
 105 100  
 120 49.3 24.6 74.0





#81

trans-1,4-Dichloro-2-butene

Concen: 51.736 ug/l

RT: 12.54 min Scan# 1805

Delta R.T. 0.00 min

Lab File: VD065677.D

Acq: 24 Apr 2020 15:49

Instrument :

MSVOA\_D

ClientSampled :

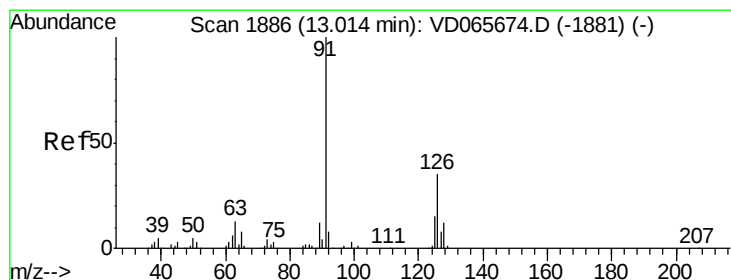
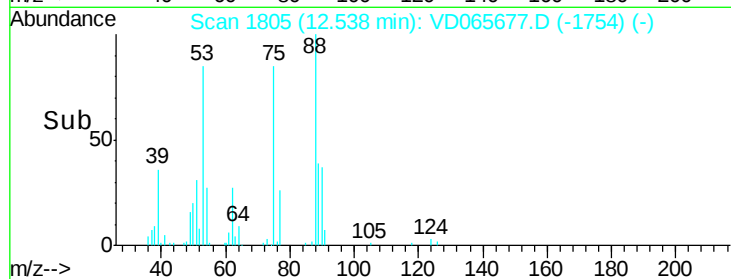
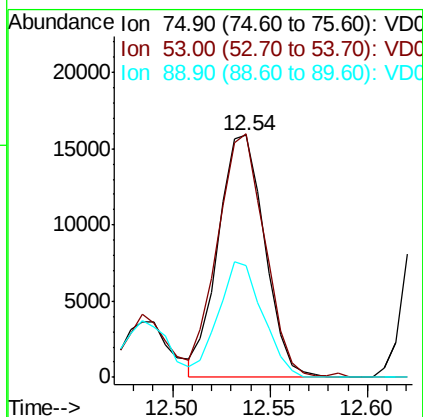
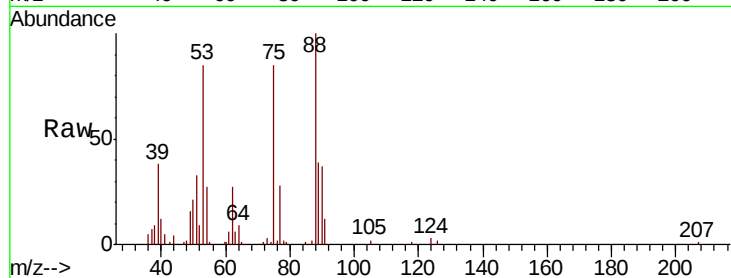
Tot Ion: 75 Resp: 26284

Ion Ratio Lower Upper

75 100

53 102.2 86.6 129.8

89 45.7 38.2 57.4



#82

4-Chlorotoluene

Concen: 53.690 ug/l

RT: 13.01 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VD065677.D

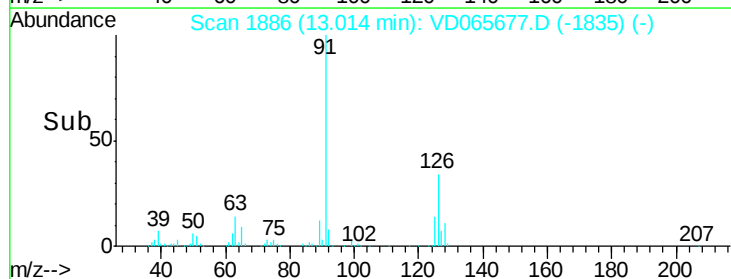
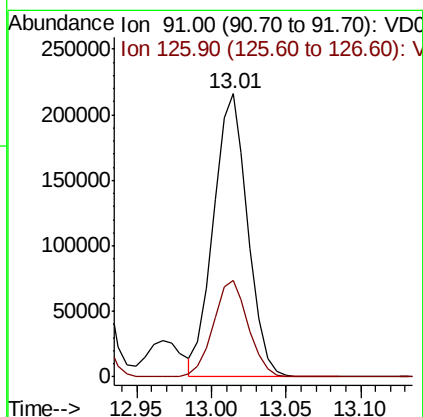
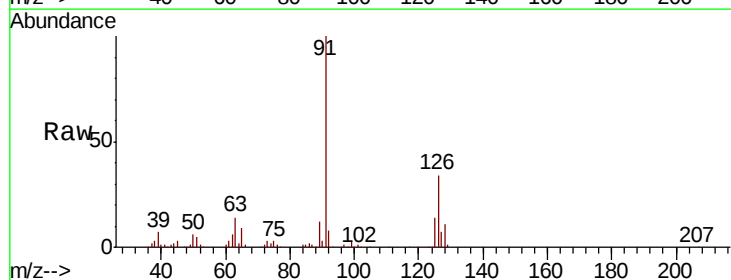
Acq: 24 Apr 2020 15:49

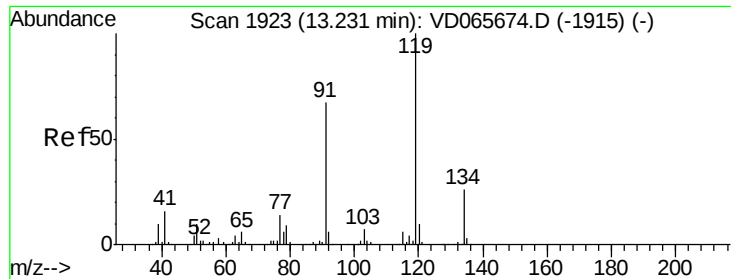
Tgt Ion: 91 Resp: 344942

Ion Ratio Lower Upper

91 100

126 34.7 16.8 50.4

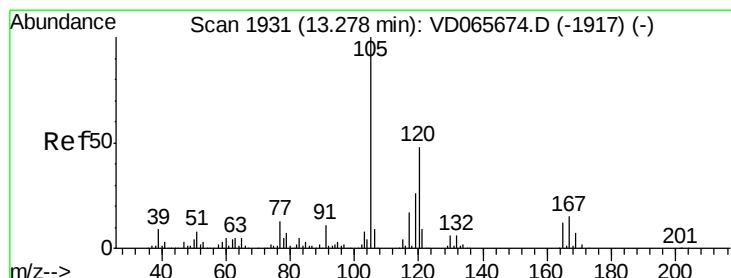
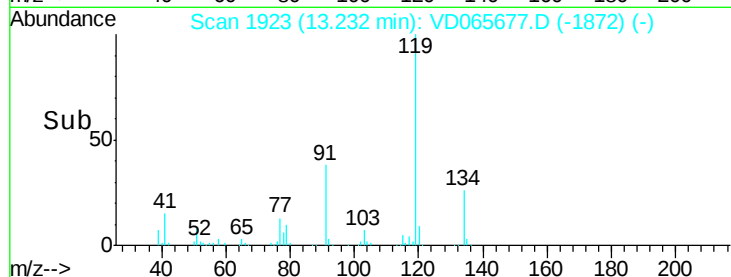
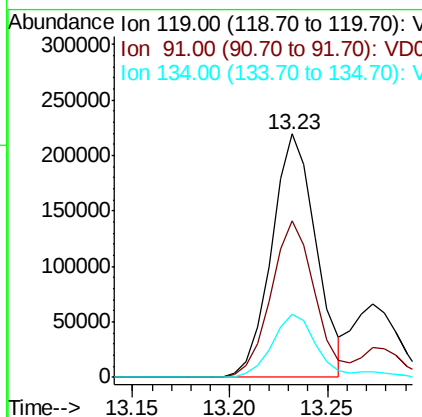
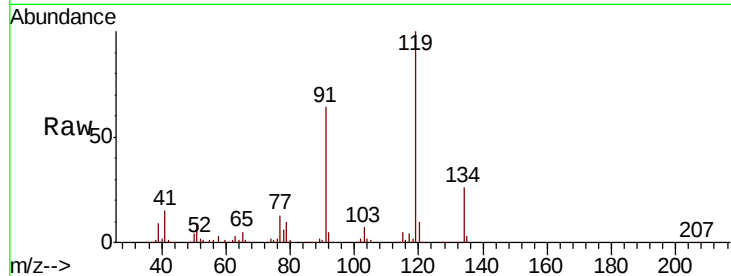




#83  
 tert-Butylbenzene  
 Concen: 58.487 ug/l  
 RT: 13.23 min Scan# 1923  
 Delta R.T. 0.00 min  
 Lab File: VD065677.D  
 Acq: 24 Apr 2020 15:49

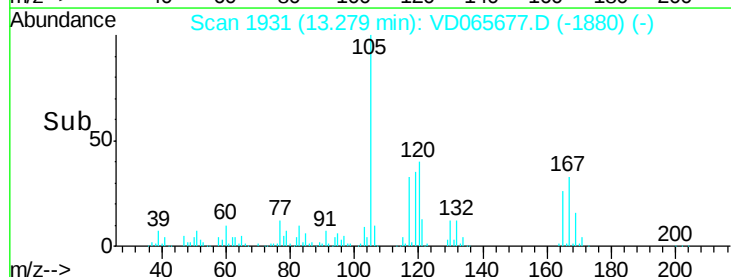
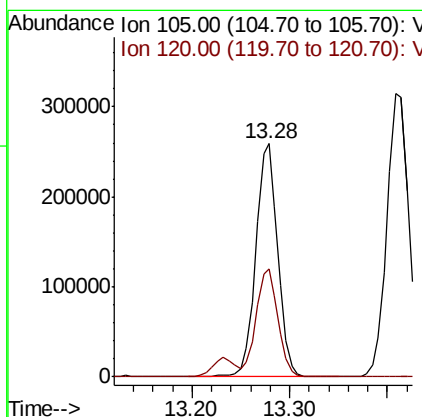
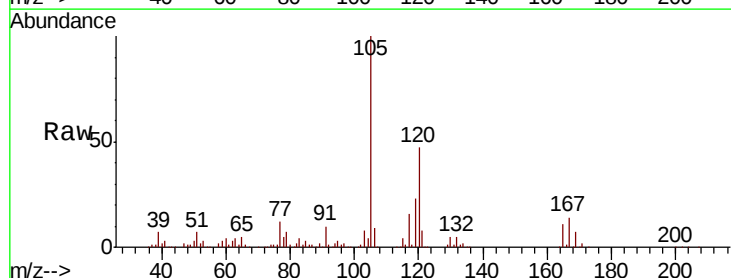
Instrument :  
 MSVOA\_D  
 ClientSampleId :

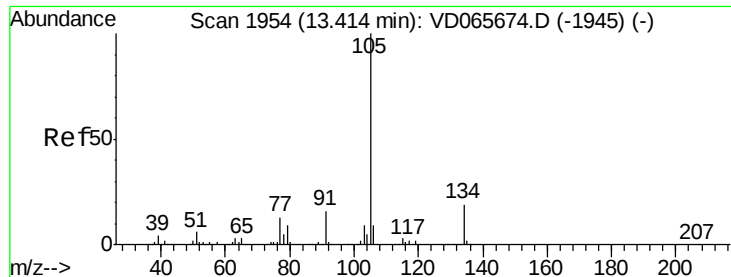
Tot Ion:119 Resp: 345827  
 Ion Ratio Lower Upper  
 119 100  
 91 64.0 33.3 99.9  
 134 27.4 14.2 42.6



#84  
 1,2,4-Trimethylbenzene  
 Concen: 56.887 ug/l  
 RT: 13.28 min Scan# 1931  
 Delta R.T. 0.00 min  
 Lab File: VD065677.D  
 Acq: 24 Apr 2020 15:49

Tgt Ion:105 Resp: 410156  
 Ion Ratio Lower Upper  
 105 100  
 120 46.2 23.2 69.5





#85

sec-Butylbenzene

Concen: 57.670 ug/l

RT: 13.41 min Scan# 1953

Delta R.T. -0.01 min

Lab File: VD065677.D

Acq: 24 Apr 2020 15:49

Instrument :

MSVOA\_D

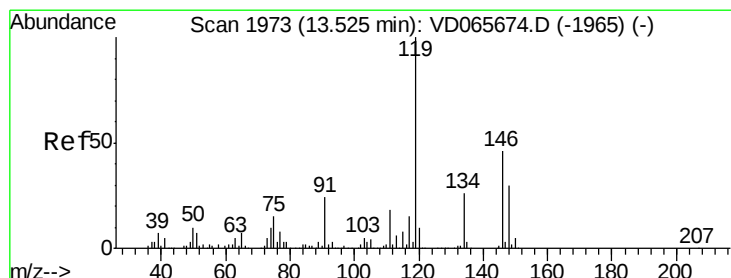
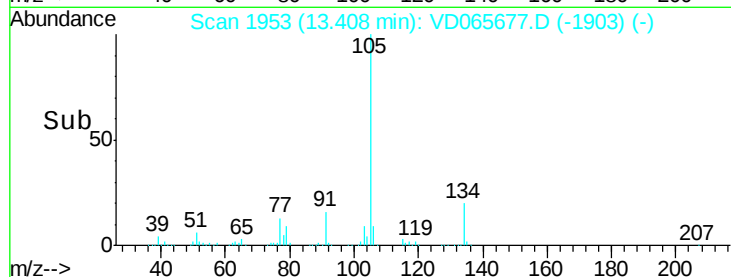
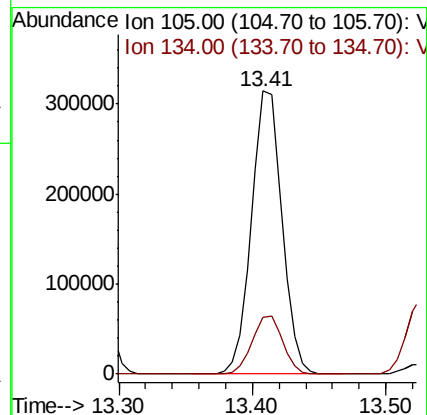
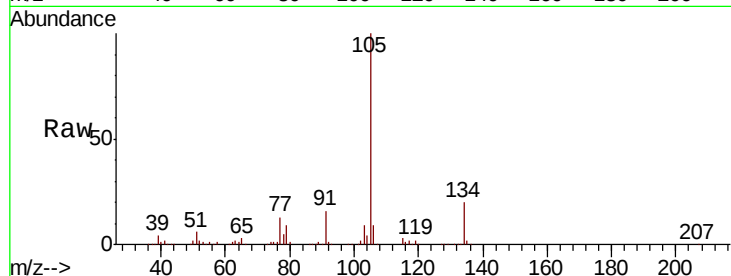
ClientSampleId :

Tot Ion:105 Resp: 493548

Ion Ratio Lower Upper

105 100

134 20.8 10.3 30.8



#86

p-Isopropyltoluene

Concen: 56.777 ug/l

RT: 13.53 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VD065677.D

Acq: 24 Apr 2020 15:49

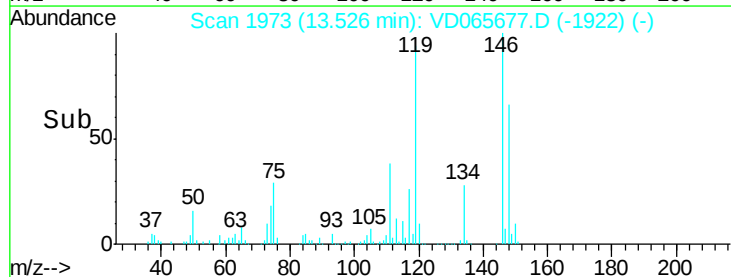
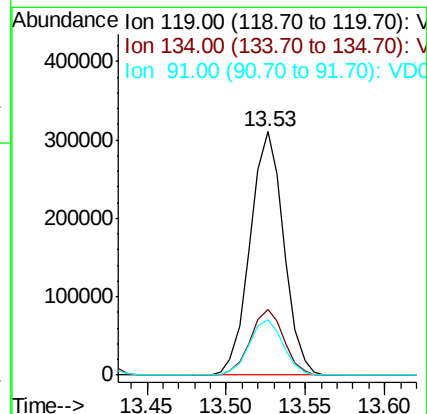
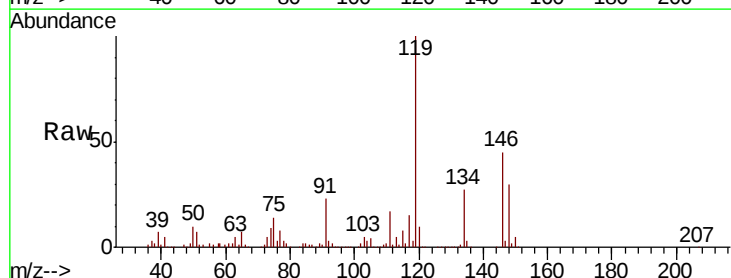
Tgt Ion:119 Resp: 457486

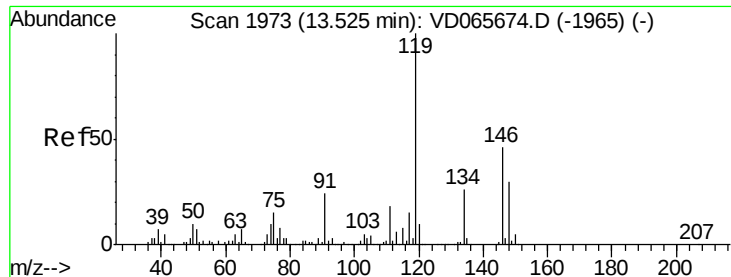
Ion Ratio Lower Upper

119 100

134 26.9 13.2 39.5

91 23.0 12.0 36.0

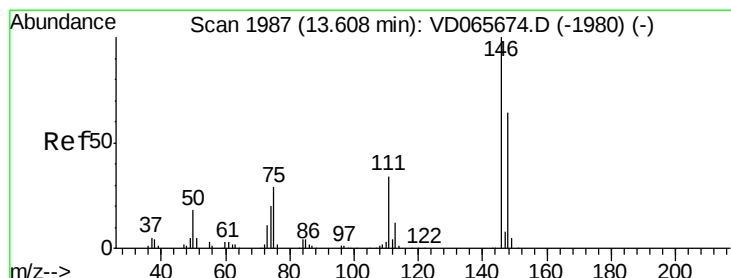
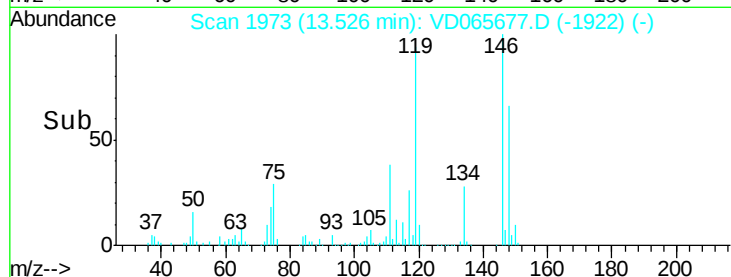
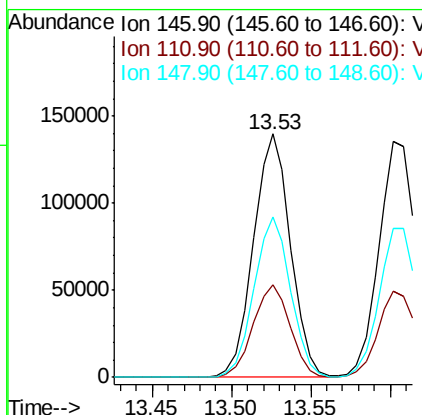
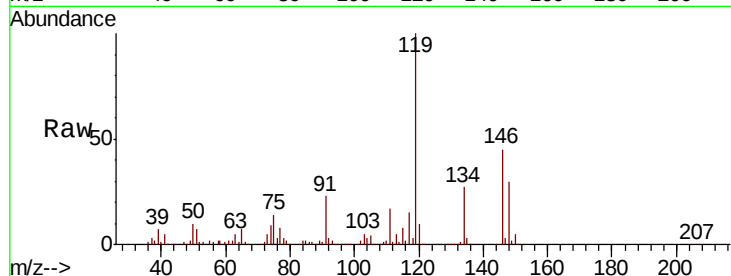




#87  
 1,3-Dichlorobenzene  
 Concen: 51.695 ug/l  
 RT: 13.53 min Scan# 1973  
 Delta R.T. 0.00 min  
 Lab File: VD065677.D  
 Acq: 24 Apr 2020 15:49

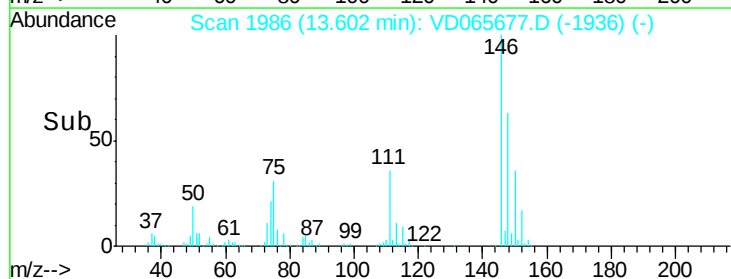
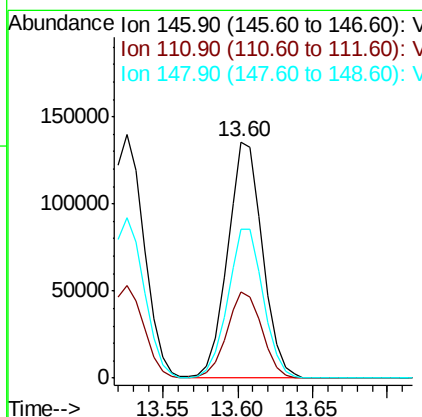
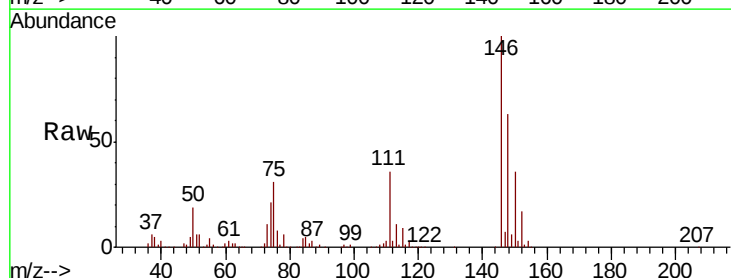
Instrument :  
 MSVOA\_D  
 ClientSampleId :

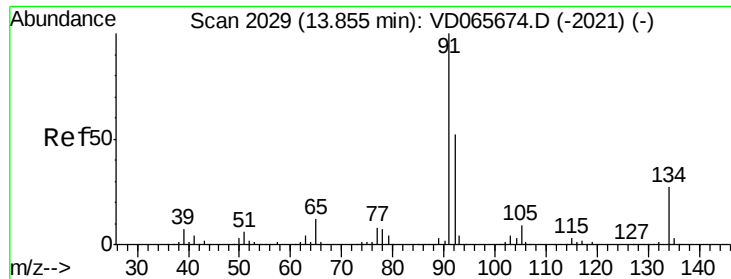
Tot Ion:146 Resp: 226917  
 Ion Ratio Lower Upper  
 146 100  
 111 38.0 19.3 57.9  
 148 64.9 32.6 97.8



#88  
 1,4-Dichlorobenzene  
 Concen: 50.379 ug/l  
 RT: 13.60 min Scan# 1986  
 Delta R.T. -0.01 min  
 Lab File: VD065677.D  
 Acq: 24 Apr 2020 15:49

Tgt Ion:146 Resp: 220604  
 Ion Ratio Lower Upper  
 146 100  
 111 37.1 18.3 54.8  
 148 64.3 32.1 96.5

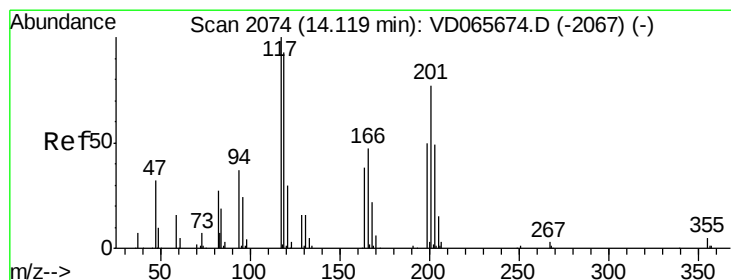
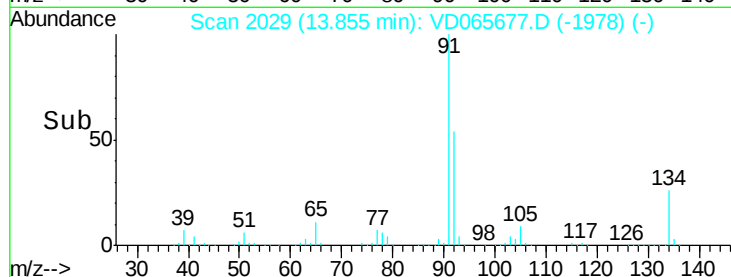
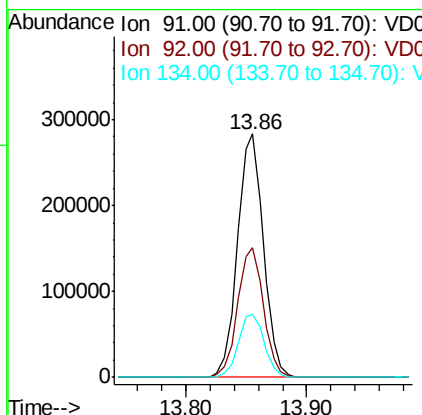
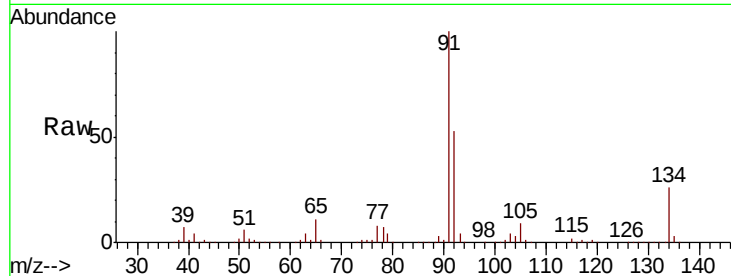




#89  
n-Butylbenzene  
Concen: 56.935 ug/l  
RT: 13.86 min Scan# 2029  
Delta R.T. 0.00 min  
Lab File: VD065677.D  
Acq: 24 Apr 2020 15:49

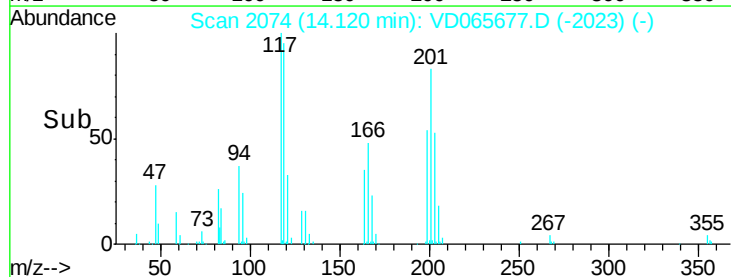
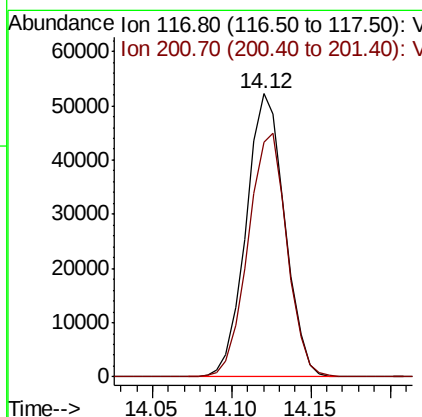
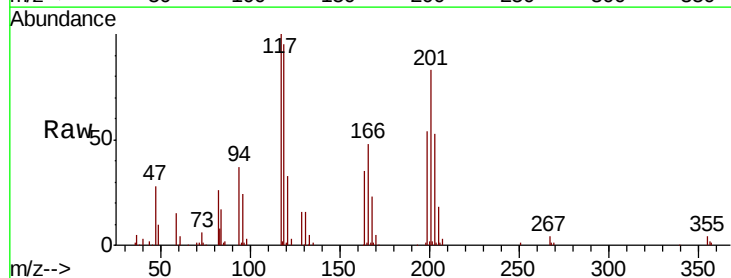
Instrument :  
MSVOA\_D  
ClientSampleId :

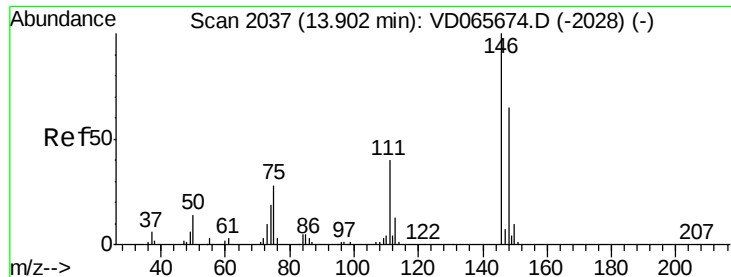
Tot Ion: 91 Resp: 422298  
Ion Ratio Lower Upper  
91 100  
92 53.2 26.3 78.8  
134 26.2 13.0 39.0



#90  
Hexachloroethane  
Concen: 50.626 ug/l  
RT: 14.12 min Scan# 2074  
Delta R.T. 0.00 min  
Lab File: VD065677.D  
Acq: 24 Apr 2020 15:49

Tgt Ion: 117 Resp: 88512  
Ion Ratio Lower Upper  
117 100  
201 86.7 42.1 126.3





#91

1,2-Dichlorobenzene

Concen: 51.054 ug/l

RT: 13.90 min Scan# 2037

Delta R.T. 0.00 min

Lab File: VD065677.D

Acq: 24 Apr 2020 15:49

Instrument :

MSVOA\_D

ClientSampled :

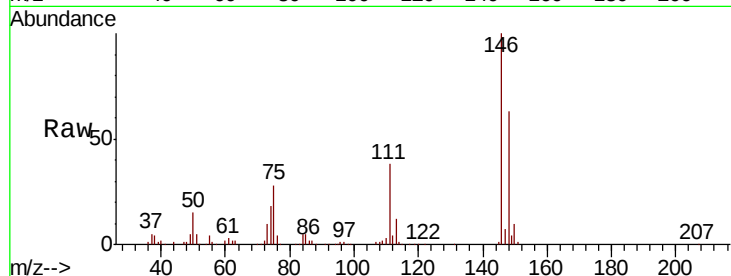
Tot Ion:146 Resp: 192635

Ion Ratio Lower Upper

146 100

111 38.8 19.8 59.3

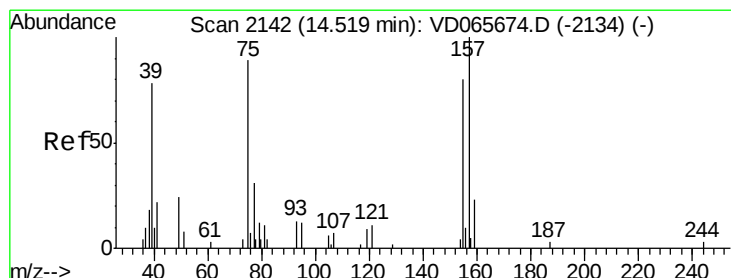
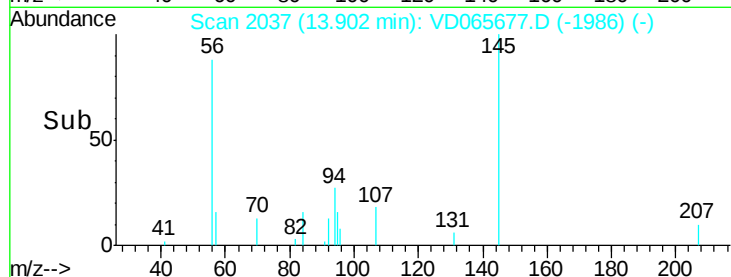
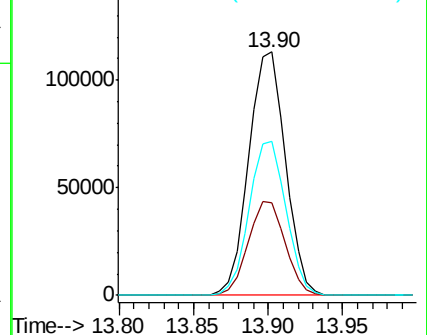
148 63.2 31.5 94.5



Abundance Ion 145.90 (145.60 to 146.60): 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: 44.976 ug/l

RT: 14.52 min Scan# 2142

Delta R.T. 0.00 min

Lab File: VD065677.D

Acq: 24 Apr 2020 15:49

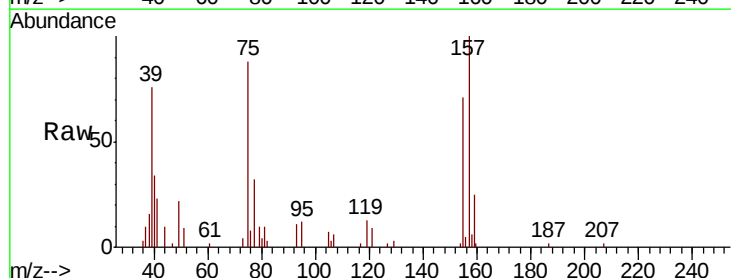
Tgt Ion: 75 Resp: 11356

Ion Ratio Lower Upper

75 100

155 84.1 41.8 125.3

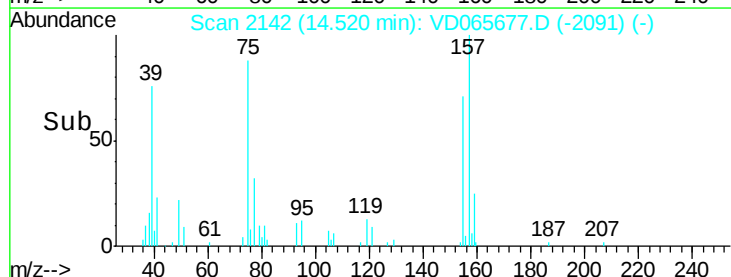
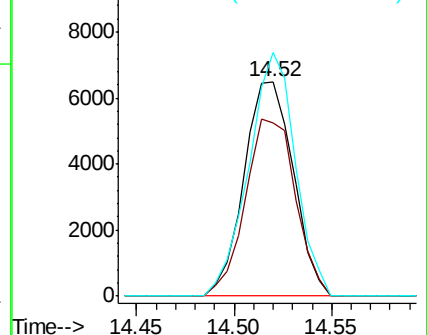
157 107.5 53.9 161.7

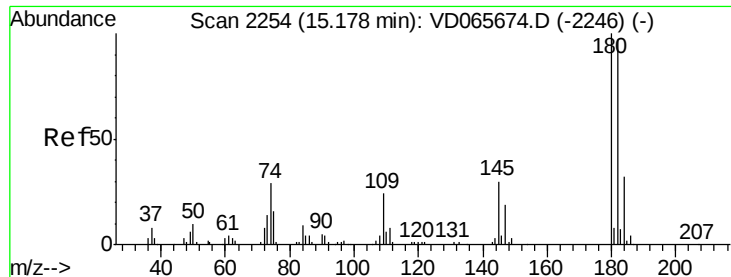


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

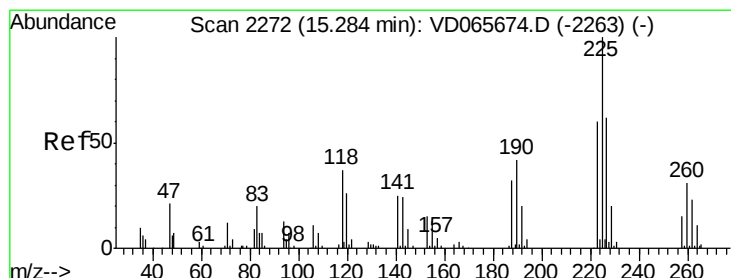
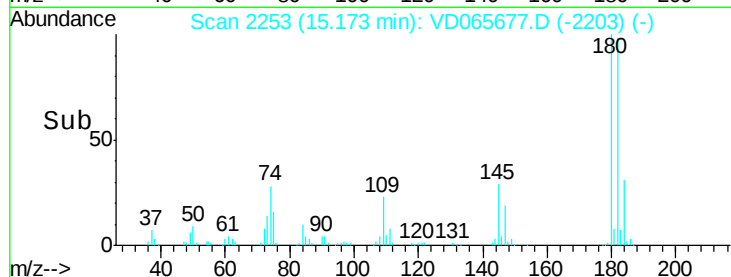
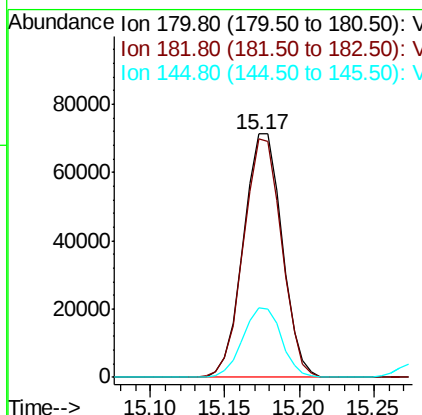
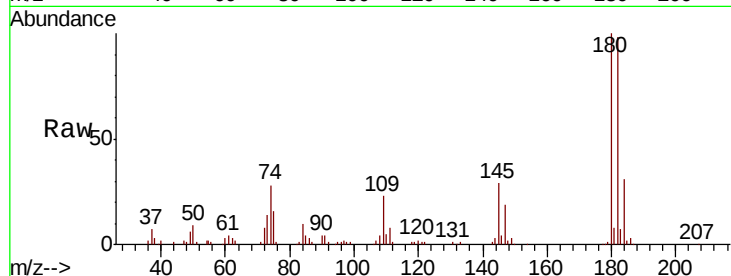




#93  
 1,2,4-Trichlorobenzene  
 Concen: 51.579 ug/l  
 RT: 15.17 min Scan# 2253  
 Delta R.T. -0.01 min  
 Lab File: VD065677.D  
 Acq: 24 Apr 2020 15:49

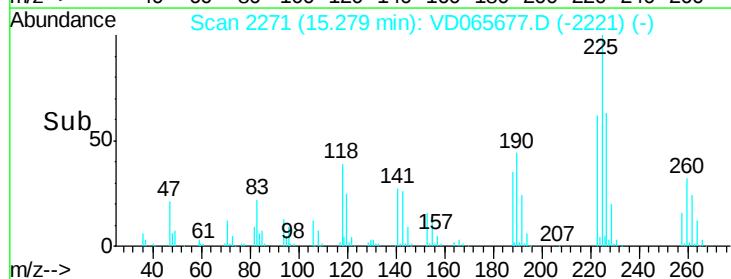
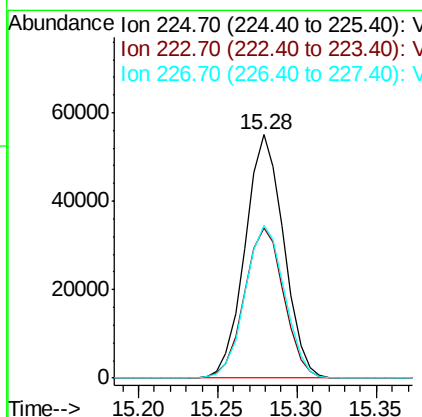
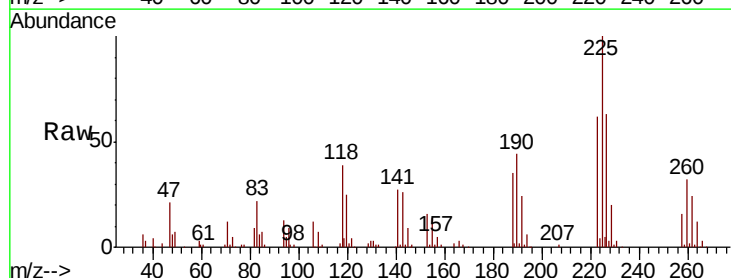
Instrument :  
 MSVOA\_D  
 ClientSampleID :

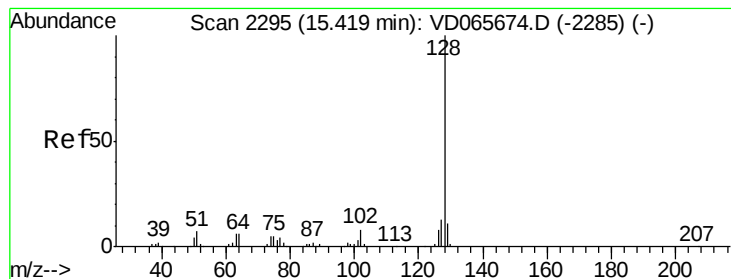
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 96.6  | 47.1  | 141.3 |
| 145     | 28.9  | 14.3  | 42.9  |



#94  
 Hexachlorobutadiene  
 Concen: 51.331 ug/l  
 RT: 15.28 min Scan# 2271  
 Delta R.T. -0.01 min  
 Lab File: VD065677.D  
 Acq: 24 Apr 2020 15:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 62.9  | 31.0  | 93.0  |
| 227     | 64.1  | 31.6  | 94.8  |





#95

Naphthalene

Concen: 45.380 ug/l

RT: 15.41 min Scan# 2294

Delta R.T. -0.00 min

Lab File: VD065677.D

Acq: 24 Apr 2020 15:49

Instrument :

MSVOA\_D

ClientSampleId :

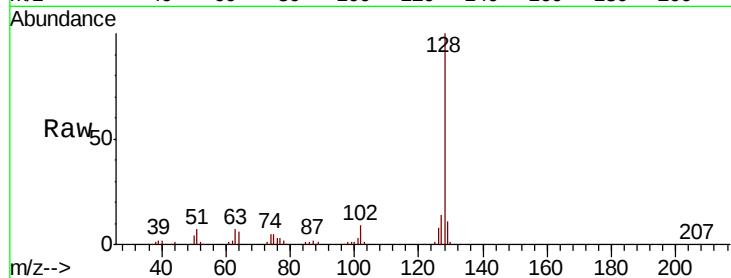
Tot Ion:128 Resp: 189284

Ion Ratio Lower Upper

128 100

127 13.9 11.4 17.0

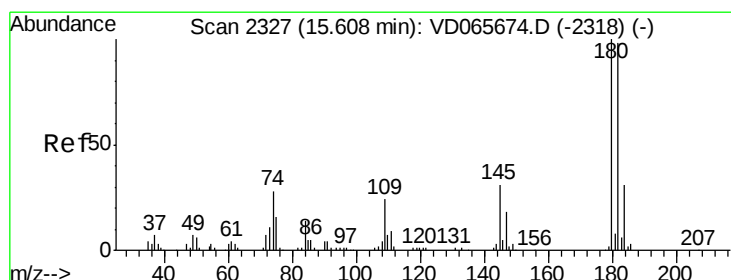
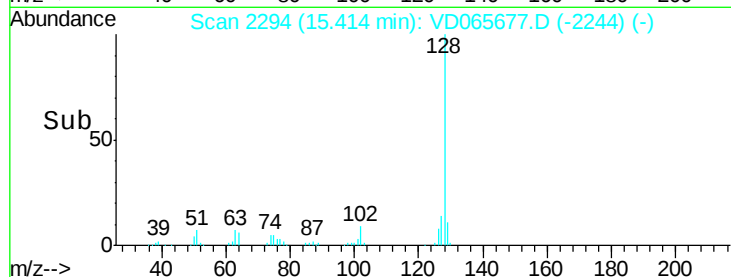
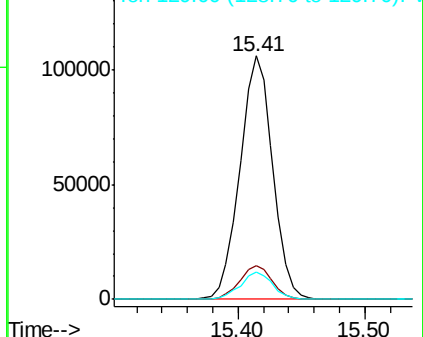
129 11.0 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 50.568 ug/l

RT: 15.61 min Scan# 2327

Delta R.T. 0.00 min

Lab File: VD065677.D

Acq: 24 Apr 2020 15:49

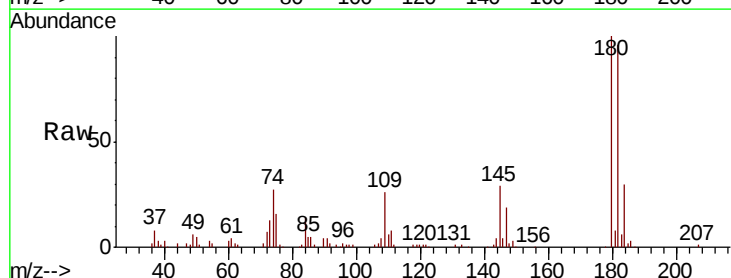
Tgt Ion:180 Resp: 111276

Ion Ratio Lower Upper

180 100

182 95.4 47.8 143.3

145 29.5 15.6 46.8



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

