

Data Path : W:\HPCHEM1\MSVOA T\DATA\VT050818\  
 Data File : VT019045.D  
 Acq On : 8 May 2018 19:50  
 Operator : SY/MD  
 Sample : VSTDICC100  
 Misc : 5.00g/5mL/MSVOA T/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_T  
 ClientSampleId :  
 VSTDICC100

Quant Time: May 09 04:18:17 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_T\METHODS\2015\82T050818S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 09 03:54:37 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.44  | 168  | 1247217  | 50.00 | ug/l  | 0.00     |
| 33) 1,4-Difluorobenzene    | 8.38  | 114  | 2091655  | 50.00 | ug/l  | 0.00     |
| 62) Chlorobenzene-d5       | 11.22 | 117  | 1796796  | 50.00 | ug/l  | 0.00     |
| 71) 1,4-Dichlorobenzene-d4 | 13.16 | 152  | 892408   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |        |         |      |
|---------------------------|--------|-----|----------|--------|---------|------|
| 32) 1,2-Dichloroethane-d4 | 7.80   | 65  | 1247667  | 122.27 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 244.54% |      |
| 34) Dibromofluoromethane  | 7.35   | 113 | 1251701  | 110.50 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 221.00% |      |
| 49) Toluene-d8            | 9.90   | 98  | 5287631  | 106.18 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 212.36% |      |
| 61) 4-Bromofluorobenzene  | 12.22  | 95  | 2069488  | 120.05 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 240.10% |      |

## Target Compounds

|                               |      |     |          |        |      | Qvalue |
|-------------------------------|------|-----|----------|--------|------|--------|
| 2) Dichlorodifluoromethane    | 1.78 | 85  | 1681687  | 145.02 | ug/l | 100    |
| 3) Chloromethane              | 1.97 | 50  | 629870   | 58.80  | ug/l | 98     |
| 4) Vinyl Chloride             | 2.11 | 62  | 995395   | 86.52  | ug/l | 97     |
| 5) Bromomethane               | 2.46 | 94  | 795104   | 123.60 | ug/l | 95     |
| 6) Chloroethane               | 2.57 | 64  | 607287   | 101.47 | ug/l | 96     |
| 7) Trichlorofluoromethane     | 2.92 | 101 | 2459325m | 186.00 | ug/l |        |
| 8) Diethyl Ether              | 3.20 | 74  | 386244   | 80.82  | ug/l | 91     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.60 | 101 | 1149034  | 100.82 | ug/l | 96     |
| 10) Methyl Iodide             | 3.76 | 142 | 1692379  | 95.62  | ug/l | 95     |
| 11) Tert butyl alcohol        | 4.55 | 59  | 300493   | 550.68 | ug/l | 98     |
| 12) 1,1-Dichloroethene        | 3.56 | 96  | 1056541  | 89.60  | ug/l | 96     |
| 13) Acrolein                  | 3.39 | 56  | 145841   | 193.65 | ug/l | 91     |
| 14) Allyl chloride            | 4.05 | 41  | 2267310  | 109.94 | ug/l | 99     |
| 15) Acrylonitrile             | 4.70 | 53  | 1177496  | 477.22 | ug/l | 95     |
| 16) Acetone                   | 3.59 | 43  | 578666   | 234.87 | ug/l | 95     |
| 17) Carbon Disulfide          | 3.91 | 76  | 4489526m | 138.55 | ug/l |        |
| 18) Methyl Acetate            | 4.08 | 43  | 643225   | 61.23  | ug/l | 99     |
| 19) Methyl tert-butyl Ether   | 4.76 | 73  | 2757770  | 123.52 | ug/l | 98     |
| 20) Methylene Chloride        | 4.33 | 84  | 1310168  | 95.44  | ug/l | 95     |
| 21) trans-1,2-Dichloroethene  | 4.74 | 96  | 1544020  | 121.81 | ug/l | 92     |
| 22) Diisopropyl ether         | 5.67 | 45  | 4258673  | 116.90 | ug/l | 99     |
| 23) Vinyl Acetate             | 5.61 | 43  | 9268990  | 684.69 | ug/l | 99     |
| 24) 1,1-Dichloroethane        | 5.56 | 63  | 2904828  | 134.83 | ug/l | 99     |
| 25) 2-Butanone                | 6.57 | 43  | 1409770  | 419.12 | ug/l | 92     |
| 26) 2,2-Dichloropropane       | 6.55 | 77  | 1123290  | 110.77 | ug/l | 96     |
| 27) cis-1,2-Dichloroethene    | 6.55 | 96  | 1545476  | 124.86 | ug/l | 93     |
| 28) Bromochloromethane        | 6.94 | 49  | 924545   | 104.98 | ug/l | 96     |
| 29) Chloroform                | 7.13 | 83  | 2718253  | 137.79 | ug/l | 99     |
| 30) Cyclohexane               | 7.43 | 56  | 2975881  | 121.37 | ug/l | 97     |
| 31) 1,1,1-Trichloroethane     | 7.33 | 97  | 2227763  | 147.54 | ug/l | 97     |
| 35) 1,1-Dichloropropene       | 7.56 | 75  | 2538719  | 122.86 | ug/l | 99     |
| 36) Ethyl Acetate             | 6.67 | 43  | 605541   | 79.27  | ug/l | 97     |
| 37) Carbon Tetrachloride      | 7.54 | 117 | 2099220  | 121.41 | ug/l | 97     |
| 38) Methylcyclohexane         | 8.88 | 83  | 3092920  | 117.13 | ug/l | 97     |

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 Misc : 5.00µ/5mL/MSVOA T/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_T  
 ClientSampleId :  
 VSTDICC100

Quant Time: May 09 04:18:17 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_T\METHODS\2015\82T050818S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 09 03:54:37 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Benzene                    | 7.82  | 78   | 6285572  | 110.05  | ug/l   | 95       |
| 40) Methacrylonitrile          | 6.92  | 41   | 340746   | 75.57   | ug/l   | 95       |
| 41) 1,2-Dichloroethane         | 7.91  | 62   | 1392881  | 101.36  | ug/l   | 99       |
| 42) Isopropyl Acetate          | 7.96  | 43   | 1176387  | 93.92   | ug/l   | 98       |
| 43) Trichloroethene            | 8.63  | 130  | 1515217  | 104.62  | ug/l   | 98       |
| 44) 1,2-Dichloropropane        | 8.92  | 63   | 1529858  | 115.60  | ug/l   | 99       |
| 45) Dibromomethane             | 9.01  | 93   | 595526   | 102.52  | ug/l   | 96       |
| 46) Bromodichloromethane       | 9.21  | 83   | 1793543  | 118.65  | ug/l   | 98       |
| 47) Methyl methacrylate        | 9.01  | 41   | 604387   | 85.09   | ug/l   | 97       |
| 48) 1,4-Dioxane                | 9.01  | 88   | 131432   | 1678.94 | ug/l   | 93       |
| 50) 4-Methyl-2-Pentanone       | 9.80  | 43   | 2949001  | 396.94  | ug/l   | 97       |
| 51) Toluene                    | 9.97  | 92   | 3815961  | 107.73  | ug/l   | 86       |
| 52) t-1,3-Dichloropropene      | 10.19 | 75   | 1721091  | 118.16  | ug/l   | 99       |
| 53) cis-1,3-Dichloropropene    | 9.65  | 75   | 2174342  | 118.27  | ug/l   | 97       |
| 54) 1,1,2-Trichloroethane      | 10.38 | 97   | 899777   | 103.72  | ug/l   | 99       |
| 55) Ethyl methacrylate         | 10.25 | 69   | 1199705  | 113.38  | ug/l   | 98       |
| 56) 1,3-Dichloropropane        | 10.53 | 76   | 1645634  | 109.29  | ug/l   | 96       |
| 57) 2-Chloroethyl Vinyl ether  | 9.51  | 63   | 2629699  | 596.60  | ug/l   | 100      |
| 58) 2-Hexanone                 | 10.57 | 43   | 2161448  | 385.25  | ug/l   | 96       |
| 59) Dibromochloromethane       | 10.73 | 129  | 980974   | 98.02   | ug/l   | 97       |
| 60) 1,2-Dibromoethane          | 10.82 | 107  | 822615   | 102.83  | ug/l   | 97       |
| 63) Tetrachloroethene          | 10.45 | 164  | 1359319  | 103.73  | ug/l   | 97       |
| 64) Chlorobenzene              | 11.25 | 112  | 3752750  | 96.97   | ug/l   | 98       |
| 65) 1,1,1,2-Tetrachloroethane  | 11.33 | 131  | 1319633  | 108.45  | ug/l   | 97       |
| 66) Ethyl Benzene              | 11.33 | 91   | 6990737  | 103.53  | ug/l # | 88       |
| 67) m/p-Xylenes                | 11.45 | 106  | 5366448  | 198.96  | ug/l   | 76       |
| 68) o-Xylene                   | 11.77 | 106  | 2644947  | 107.61  | ug/l   | 84       |
| 69) Stvrene                    | 11.79 | 104  | 3987181  | 97.44   | ug/l   | 97       |
| 70) Bromoform                  | 11.95 | 173  | 524992   | 84.83   | ug/l   | 100      |
| 72) Isopropylbenzene           | 12.08 | 105  | 6854071  | 104.01  | ug/l   | 88       |
| 73) N-amyl acetate             | 11.90 | 43   | 1269901  | 100.80  | ug/l   | 98       |
| 74) 1,1,2,2-Tetrachloroethane  | 12.32 | 83   | 1052737  | 104.79  | ug/l   | 95       |
| 75) 1,2,3-Trichloropropane     | 12.37 | 75   | 793604m  | 112.57  | ug/l   |          |
| 76) Bromobenzene               | 12.35 | 156  | 1448635  | 98.99   | ug/l   | 98       |
| 77) n-propylbenzene            | 12.42 | 91   | 8008069  | 100.72  | ug/l   | 84       |
| 78) 2-Chlorotoluene            | 12.49 | 91   | 5237882  | 117.32  | ug/l   | 94       |
| 79) 1,3,5-Trimethylbenzene     | 12.56 | 105  | 6089195  | 107.41  | ug/l   | 90       |
| 80) trans-1,4-Dichloro-2-buten | 12.12 | 75   | 310626   | 100.99  | ug/l   | 99       |
| 81) 4-Chlorotoluene            | 12.60 | 91   | 6218852  | 116.02  | ug/l   | 94       |
| 82) tert-Butylbenzene          | 12.82 | 119  | 5527711m | 109.86  | ug/l   |          |
| 83) 1,2,4-Trimethylbenzene     | 12.86 | 105  | 6163996  | 107.72  | ug/l   | 94       |
| 84) sec-Butylbenzene           | 13.00 | 105  | 7167189  | 100.55  | ug/l   | 88       |
| 85) p-Isopropyltoluene         | 13.12 | 119  | 6263211  | 99.92   | ug/l   | 89       |
| 86) 1,3-Dichlorobenzene        | 13.11 | 146  | 2980414  | 97.99   | ug/l   | 100      |
| 87) 1,4-Dichlorobenzene        | 13.19 | 146  | 2932578  | 96.91   | ug/l   | 98       |
| 88) n-Butylbenzene             | 13.44 | 91   | 6554014  | 112.73  | ug/l   | 87       |
| 89) Hexachloroethane           | 13.70 | 117  | 1254195  | 122.59  | ug/l   | 96       |
| 90) 1,2-Dichlorobenzene        | 13.47 | 146  | 2508748  | 95.77   | ug/l   | 98       |
| 91) 1,2-Dibromo-3-Chloropropan | 14.09 | 75   | 168623   | 110.73  | ug/l   | 83       |
| 92) 1,2,4-Trichlorobenzene     | 14.73 | 180  | 1794283  | 102.41  | ug/l   | 98       |

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Operator : SY/MD  
Sample : VSTDICC100  
Misc : 5.00g/5mL/MSVOA T/SOIL  
ALS Vial : 8 Sample Multiplier: 1

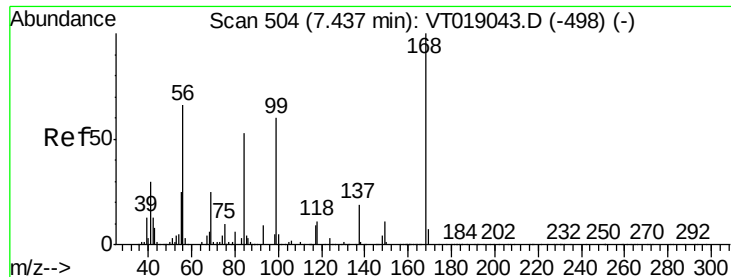
Instrument :  
MSVOA\_T  
ClientSampleId :  
VSTDICC100

Quant Time: May 09 04:18:17 2018  
Quant Method : W:\HPCHEM1\MSVOA\_T\METHODS\2015\82T050818S.M  
Quant Title : SW846 8260  
QLast Update : Wed May 09 03:54:37 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) Hexachlorobutadiene    | 14.83 | 225  | 1321092  | 114.65 | ug/l  | 97       |
| 94) Naphthalene            | 14.94 | 128  | 2886914  | 100.16 | ug/l  | 99       |
| 95) 1,2,3-Trichlorobenzene | 15.12 | 180  | 1442007  | 96.18  | ug/l  | 98       |

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





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.44 min Scan# 504

Delta R.T. 0.00 min

Lab File: VT019045.D

Acq: 8 May 2018 19:50

Instrument :

MSVOA\_T

ClientSampleId :

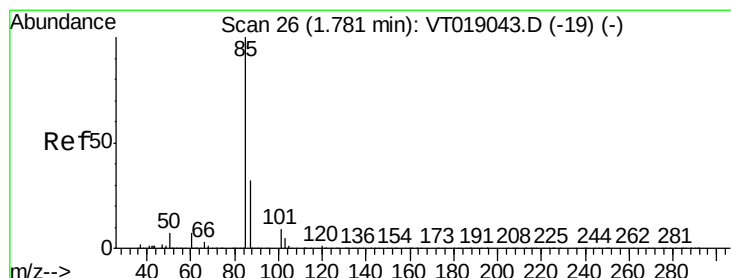
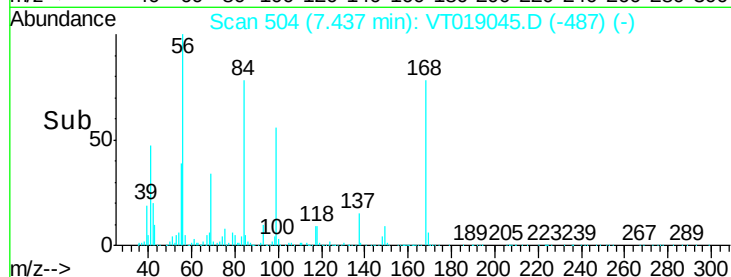
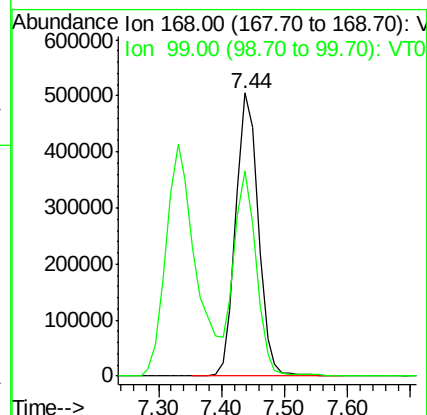
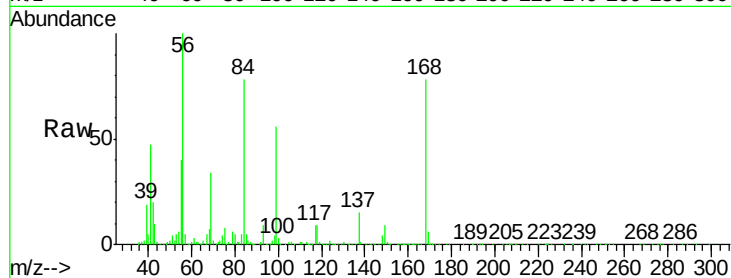
VSTDIC100

Tot Ion:168 Resp: 1247217

Ion Ratio Lower Upper

168 100

99 72.5 59.0 88.4



#2

Dichlorodifluoromethane

Concen: 145.02 ug/l

RT: 1.78 min Scan# 26

Delta R.T. 0.00 min

Lab File: VT019045.D

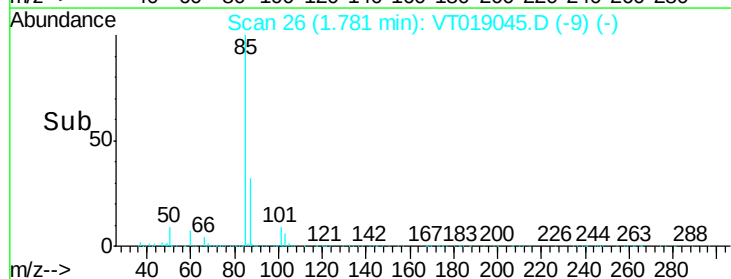
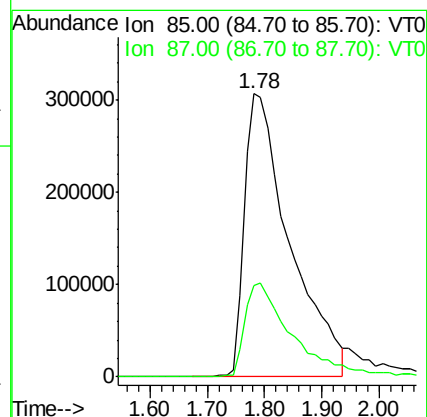
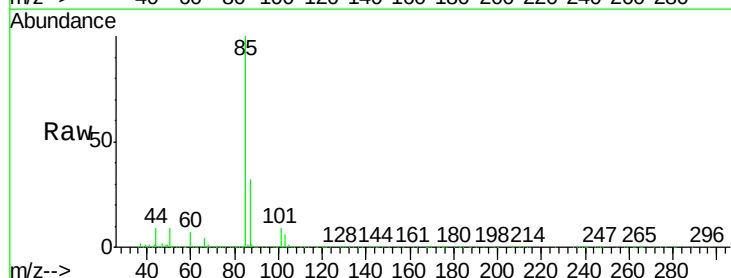
Acq: 8 May 2018 19:50

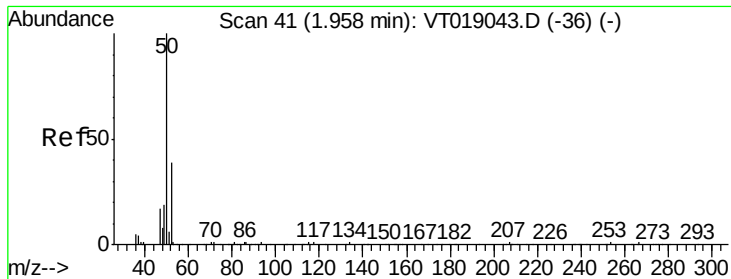
Tgt Ion: 85 Resp: 1681687

Ion Ratio Lower Upper

85 100

87 32.4 16.3 48.8





#3

Chloromethane

Concen: 58.80 ug/l

RT: 1.97 min Scan# 42

Delta R.T. 0.01 min

Lab File: VT019045.D

Acq: 8 May 2018 19:50

Instrument :

MSVOA\_T

ClientSampleId :

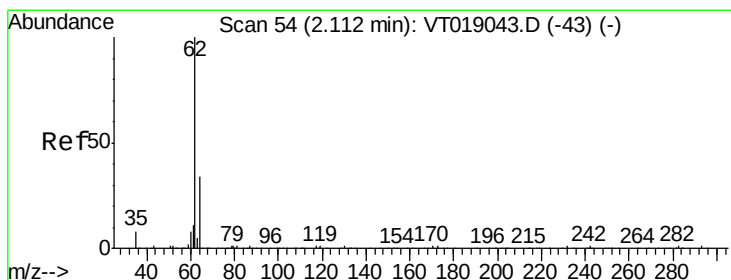
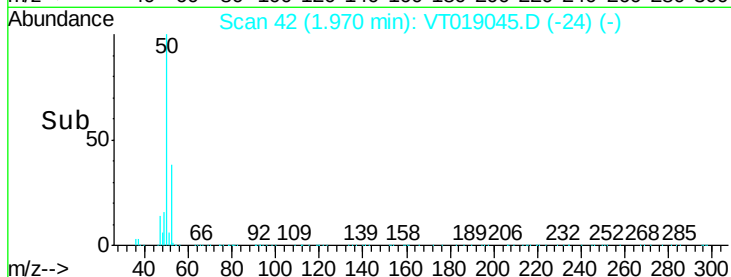
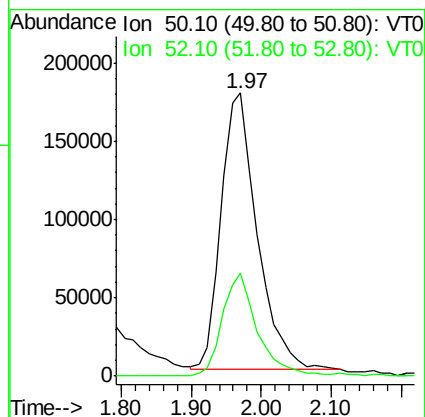
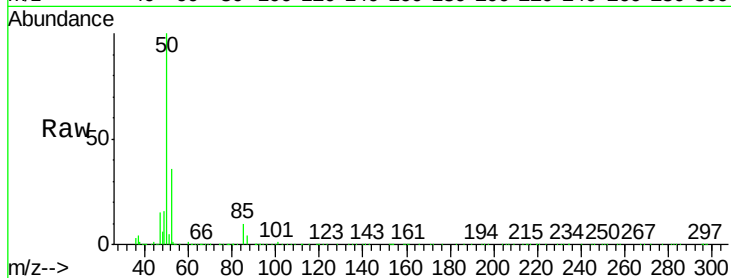
VSTDIC100

Tot Ion: 50 Resp: 629870

Ion Ratio Lower Upper

50 100

52 36.2 30.1 45.1



#4

Vinyl Chloride

Concen: 86.52 ug/l

RT: 2.11 min Scan# 54

Delta R.T. 0.00 min

Lab File: VT019045.D

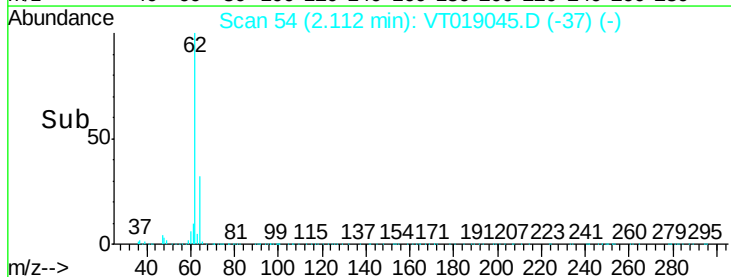
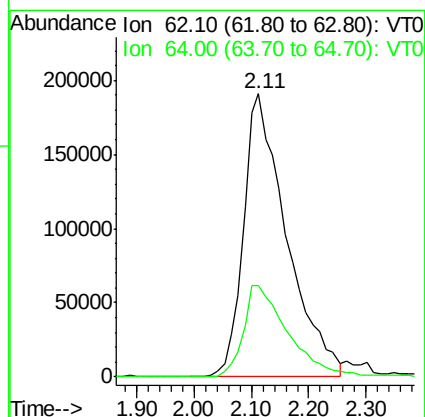
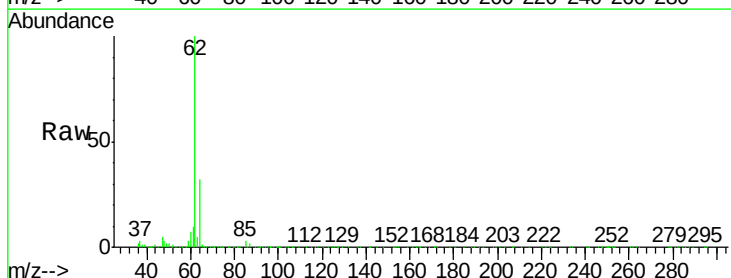
Acq: 8 May 2018 19:50

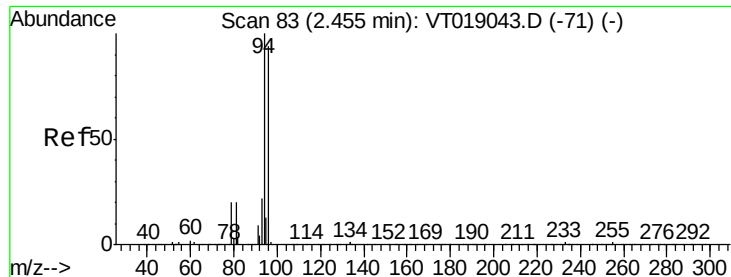
Tgt Ion: 62 Resp: 995395

Ion Ratio Lower Upper

62 100

64 32.2 27.0 40.4





#5

Bromomethane

Concen: 123.60 ug/l

RT: 2.46 min Scan# 83

Delta R.T. 0.00 min

Lab File: VT019045.D

Acq: 8 May 2018 19:50

Instrument :

MSVOA\_T

ClientSampleId :

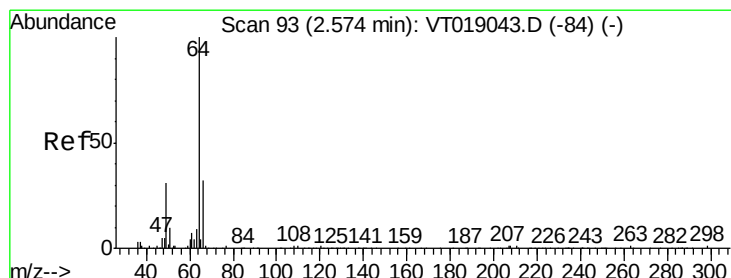
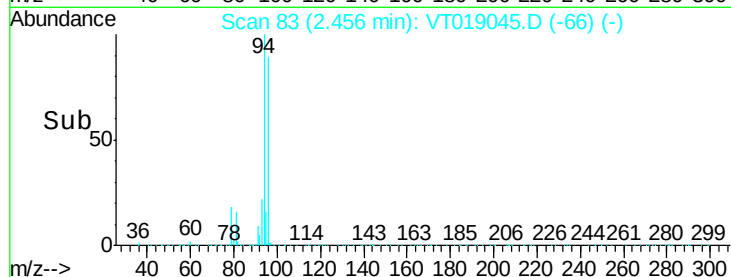
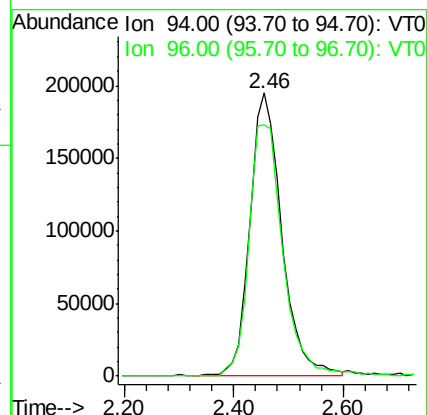
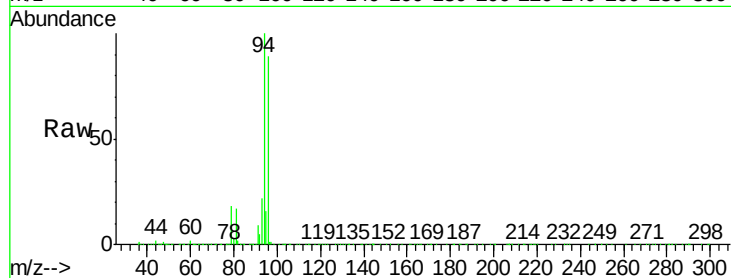
VSTDIC100

Tot Ion: 94 Resp: 795104

Ion Ratio Lower Upper

94 100

96 89.2 75.3 112.9



#6

Chloroethane

Concen: 101.47 ug/l

RT: 2.57 min Scan# 93

Delta R.T. 0.00 min

Lab File: VT019045.D

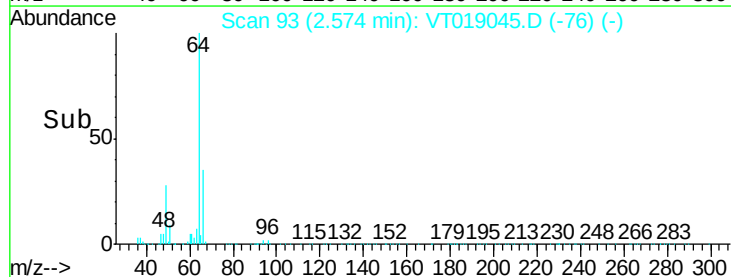
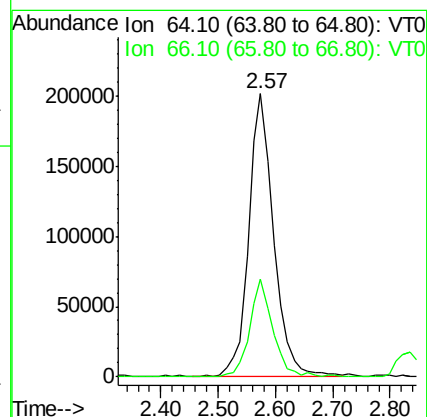
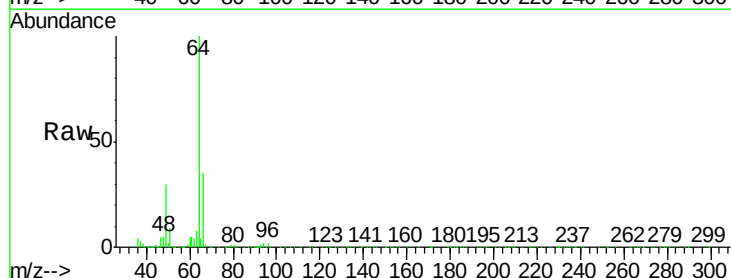
Acq: 8 May 2018 19:50

Tgt Ion: 64 Resp: 607287

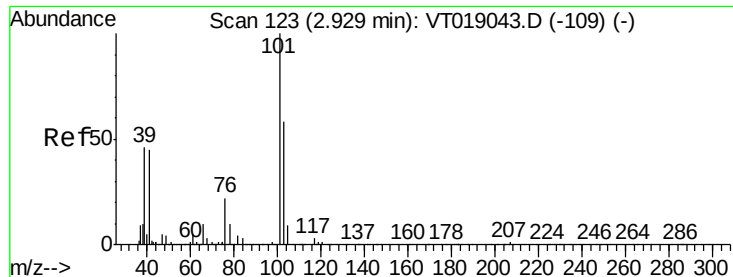
Ion Ratio Lower Upper

64 100

66 34.7 25.8 38.8





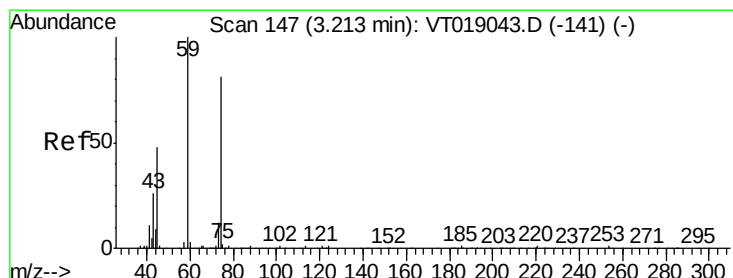
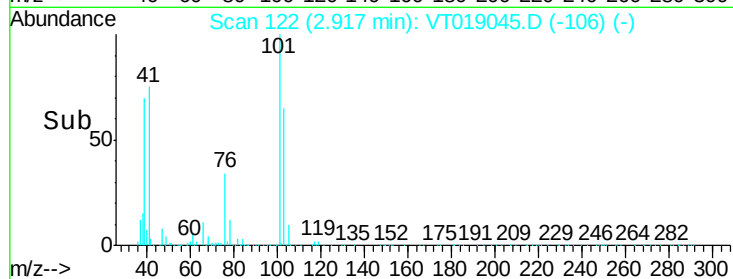
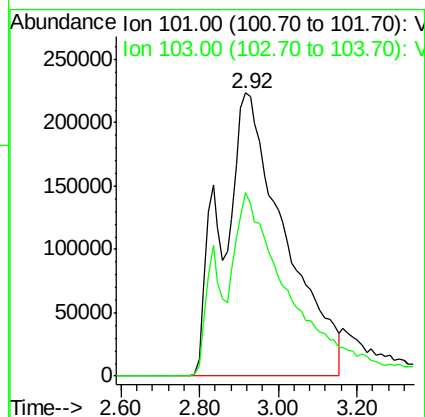
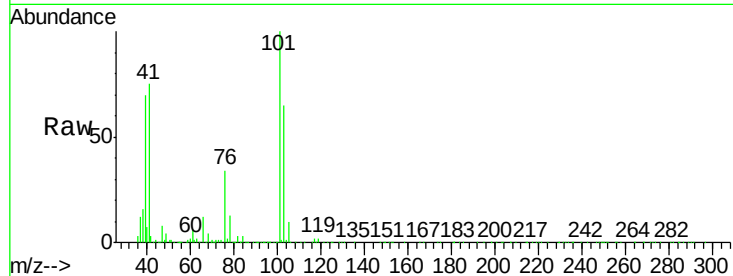


#7

Trichlorofluoromethane  
Concen: 186.00 ug/l m  
RT: 2.92 min Scan# 122  
Delta R.T. -0.01 min  
Lab File: VT019045.D  
Acq: 8 May 2018 19:50

Instrument :  
MSVOA\_T  
ClientSampleId :  
VSTDIC100

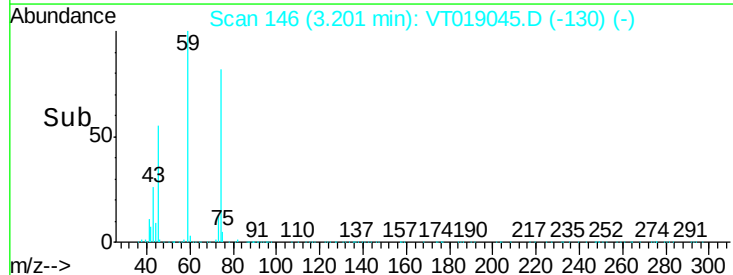
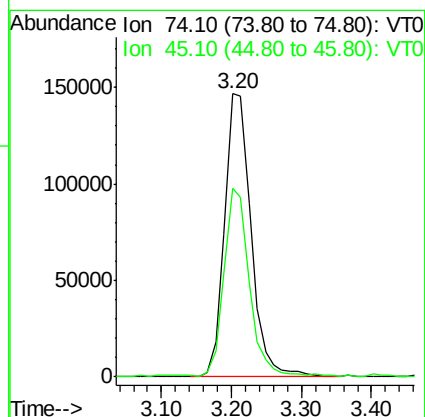
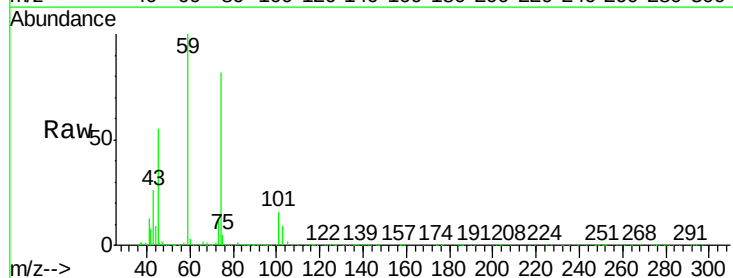
Tot Ion:101 Resp: 2459325  
Ion Ratio Lower Upper  
101 100  
103 64.6 46.5 69.7



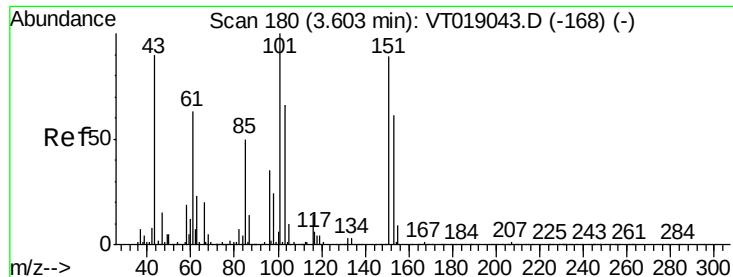
#8

Diethyl Ether  
Concen: 80.82 ug/l  
RT: 3.20 min Scan# 146  
Delta R.T. -0.01 min  
Lab File: VT019045.D  
Acq: 8 May 2018 19:50

Tgt Ion: 74 Resp: 386244  
Ion Ratio Lower Upper  
74 100  
45 66.5 29.8 89.4







#9

1,1,2-Trichlorotrifluoroethane

Concen: 100.82 ug/l

RT: 3.60 min Scan# 180

Delta R.T. 0.00 min

Lab File: VT019045.D

Acq: 8 May 2018 19:50

Instrument :

MSVOA\_T

ClientSampleId :

VSTDIC100

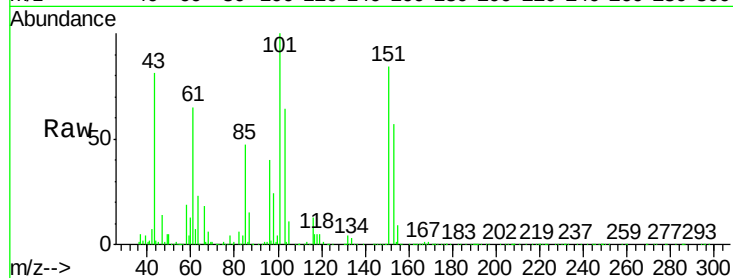
Tot Ion:101 Resp: 1149034

Ion Ratio Lower Upper

101 100

85 46.6 39.5 59.3

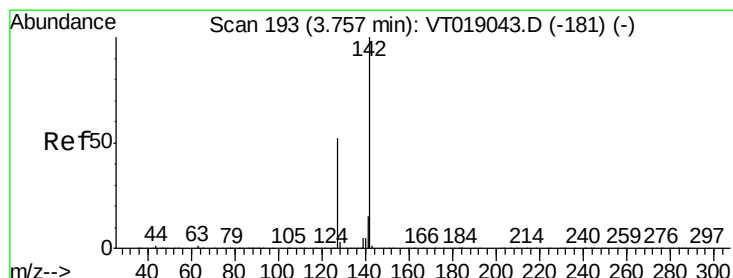
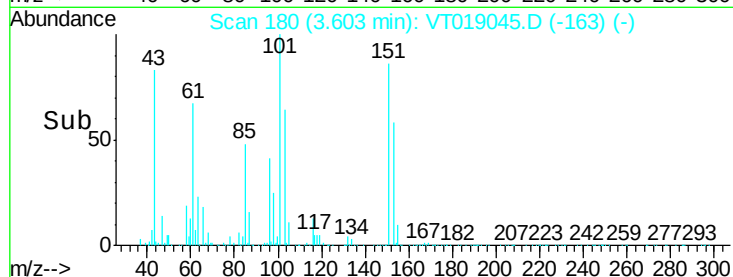
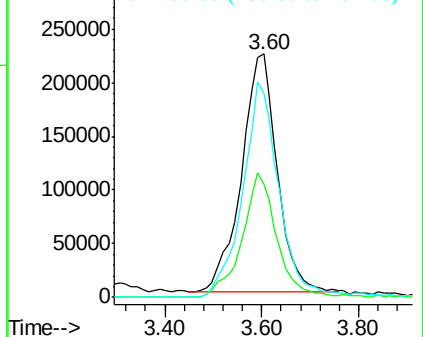
151 83.6 69.9 104.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VT0

Ion 150.90 (150.60 to 151.60): V



#10

Methyl Iodide

Concen: 95.62 ug/l

RT: 3.76 min Scan# 193

Delta R.T. 0.00 min

Lab File: VT019045.D

Acq: 8 May 2018 19:50

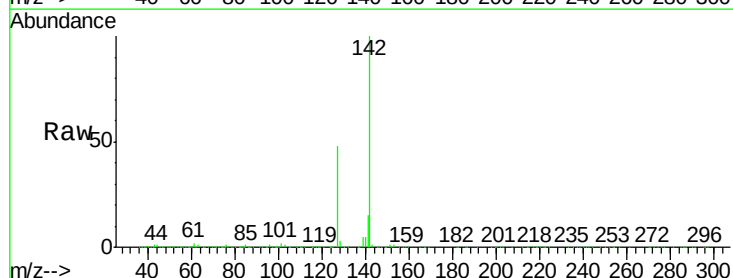
Tgt Ion:142 Resp: 1692379

Ion Ratio Lower Upper

142 100

127 47.6 41.8 62.8

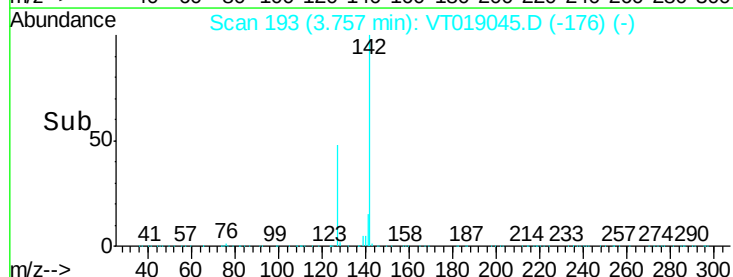
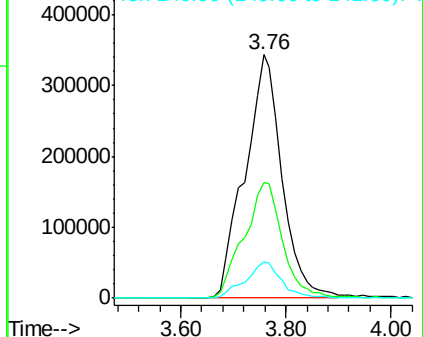
141 14.7 12.0 18.0

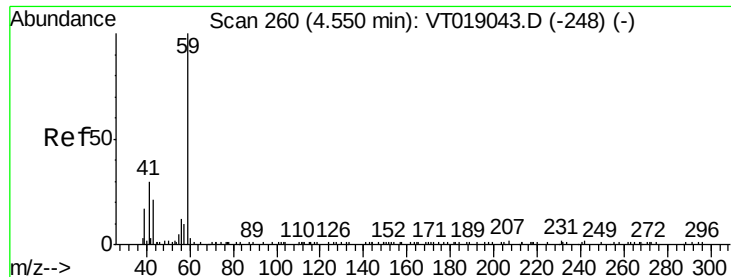


Abundance Ion 141.90 (141.60 to 142.60): V

Ion 126.90 (126.60 to 127.60): V

Ion 140.90 (140.60 to 141.60): V



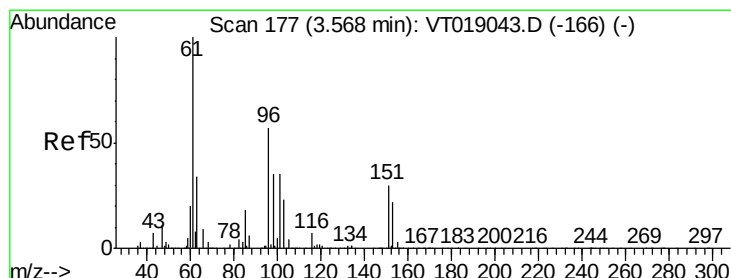
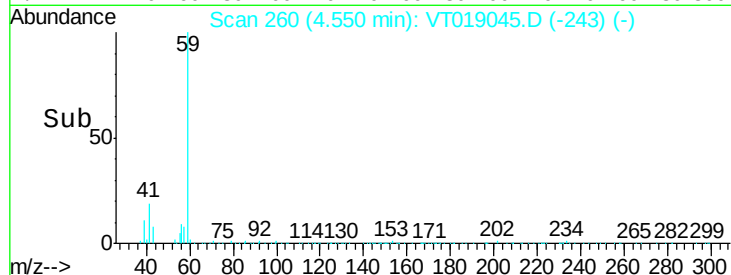
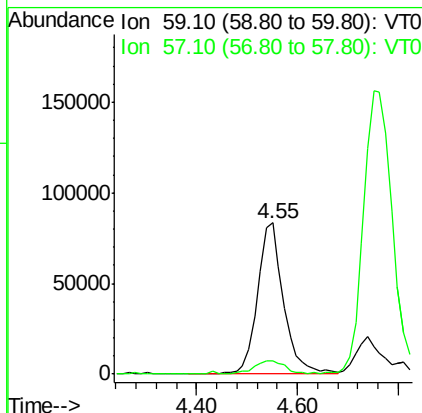
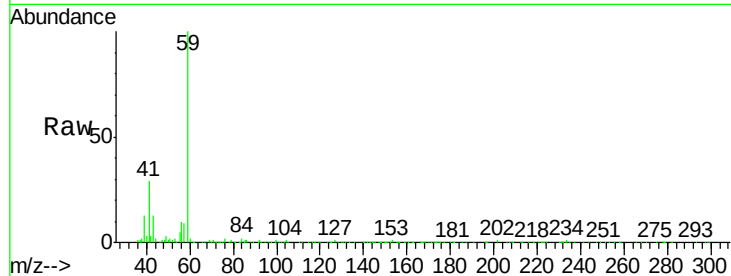


#11

Tert butyl alcohol  
Concen: 550.68 ug/l  
RT: 4.55 min Scan# 260  
Delta R.T. 0.00 min  
Lab File: VT019045.D  
Acq: 8 May 2018 19:50

Instrument :  
MSVOA\_T  
ClientSampleId :  
VSTDIC100

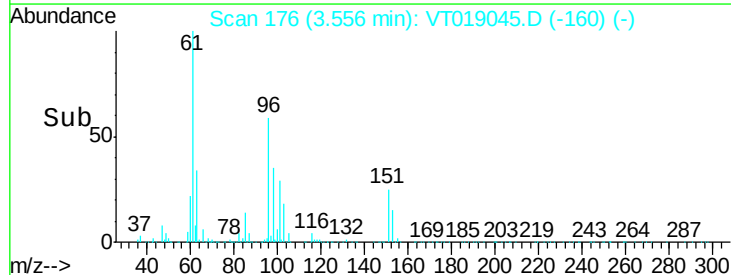
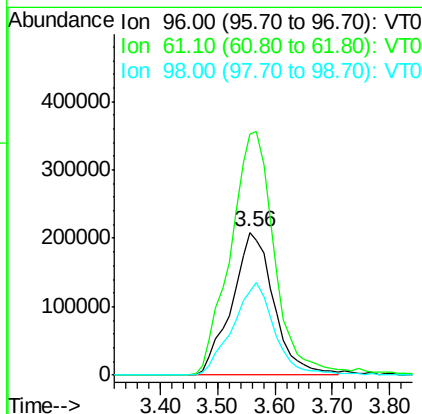
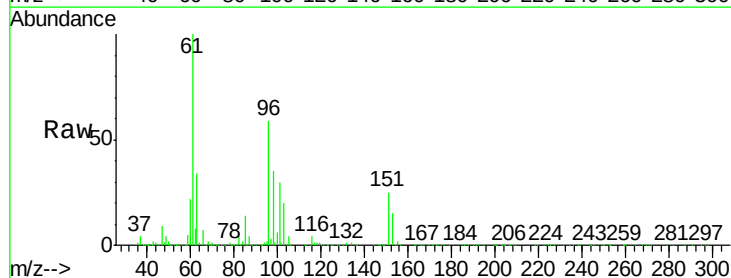
Tot Ion: 59 Resp: 300493  
Ion Ratio Lower Upper  
59 100  
57 8.7 7.7 11.5

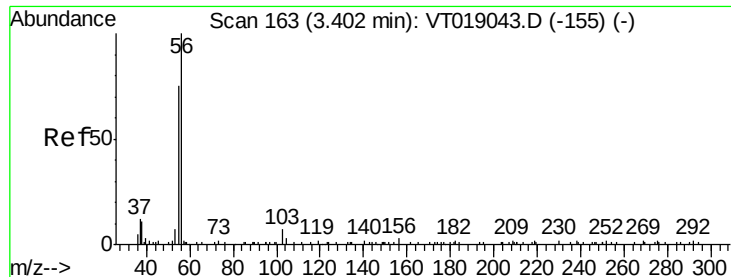


#12

1,1-Dichloroethene  
Concen: 89.60 ug/l  
RT: 3.56 min Scan# 176  
Delta R.T. -0.01 min  
Lab File: VT019045.D  
Acq: 8 May 2018 19:50

Tgt Ion: 96 Resp: 1056541  
Ion Ratio Lower Upper  
96 100  
61 168.5 139.4 209.2  
98 58.8 49.4 74.2





#13

Acrolein

Concen: 193.65 ug/l

RT: 3.39 min Scan# 162

Delta R.T. -0.01 min

Lab File: VT019045.D

Acq: 8 May 2018 19:50

Instrument :

MSVOA\_T

ClientSampleId :

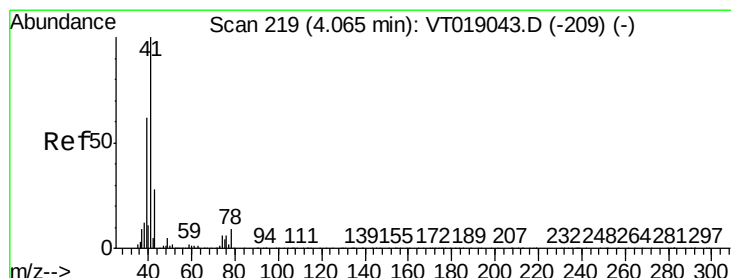
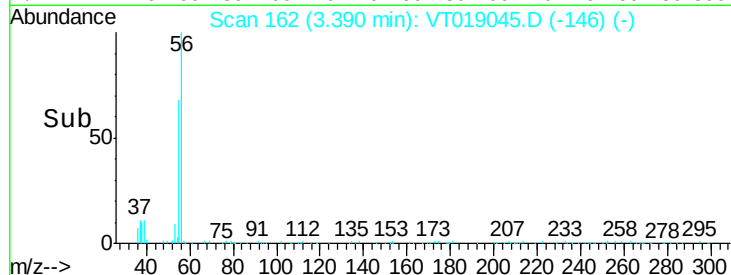
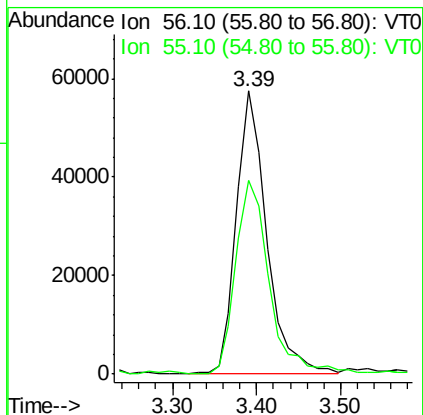
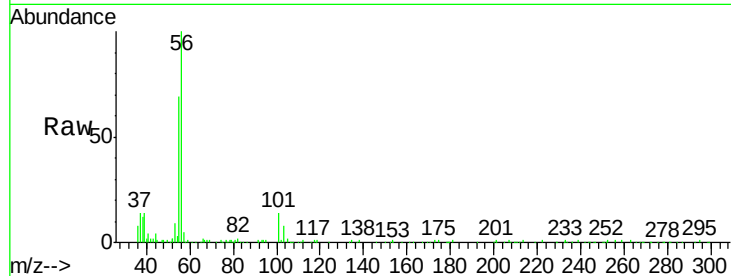
VSTDIC100

Tot Ion: 56 Resp: 145841

Ion Ratio Lower Upper

56 100

55 68.7 60.8 91.2



#14

Allyl chloride

Concen: 109.94 ug/l

RT: 4.05 min Scan# 218

Delta R.T. -0.01 min

Lab File: VT019045.D

Acq: 8 May 2018 19:50

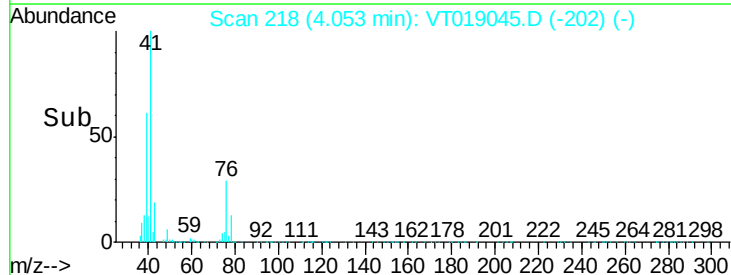
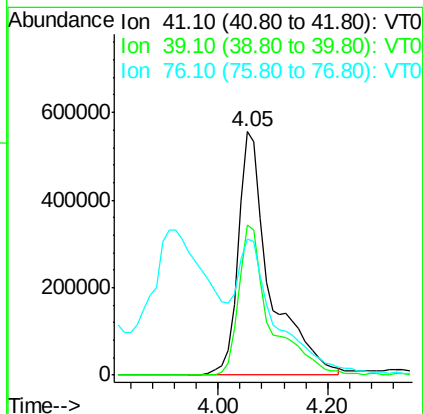
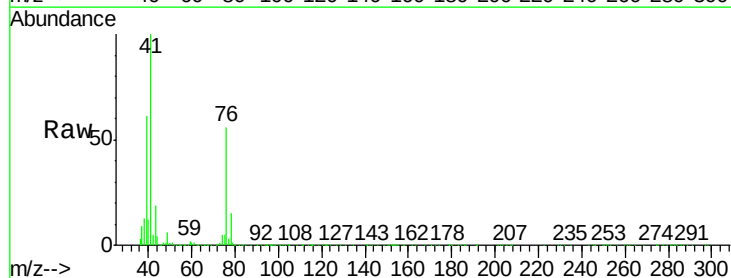
Tgt Ion: 41 Resp: 2267310

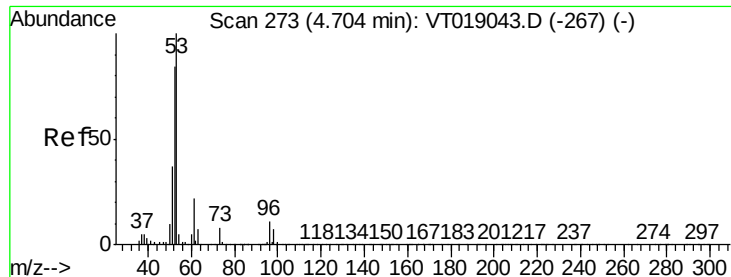
Ion Ratio Lower Upper

41 100

39 61.4 49.5 74.3

76 55.7 44.0 66.0





#15

Acrylonitrile

Concen: 477.22 ug/l

RT: 4.70 min Scan# 273

Delta R.T. 0.00 min

Lab File: VT019045.D

Acq: 8 May 2018 19:50

Instrument :

MSVOA\_T

ClientSampleId :

VSTDIC100

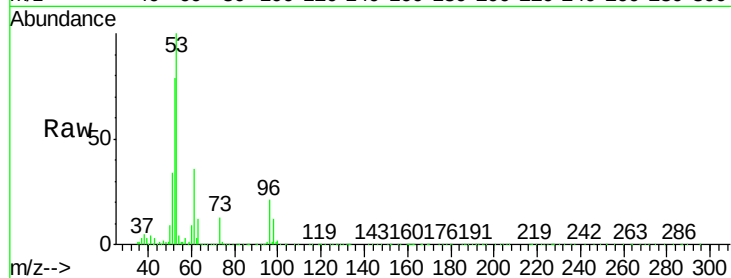
Tot Ion: 53 Resp: 1177496

Ion Ratio Lower Upper

53 100

52 78.9 67.4 101.0

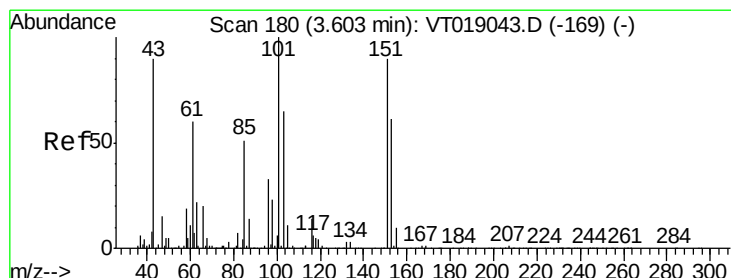
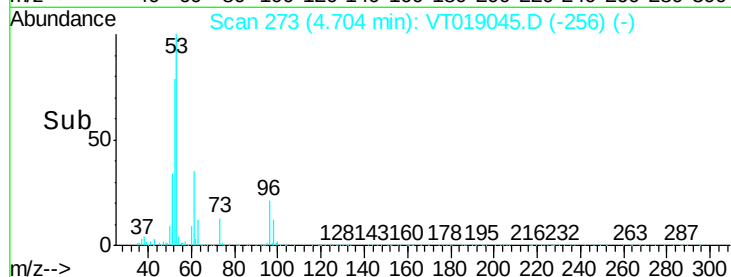
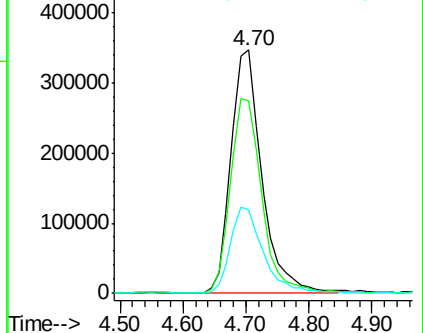
51 34.5 29.6 44.4



Abundance Ion 53.10 (52.80 to 53.80): VT0

Ion 52.10 (51.80 to 52.80): VT0

Ion 51.10 (50.80 to 51.80): VT0



#16

Acetone

Concen: 234.87 ug/l

RT: 3.59 min Scan# 179

Delta R.T. -0.01 min

Lab File: VT019045.D

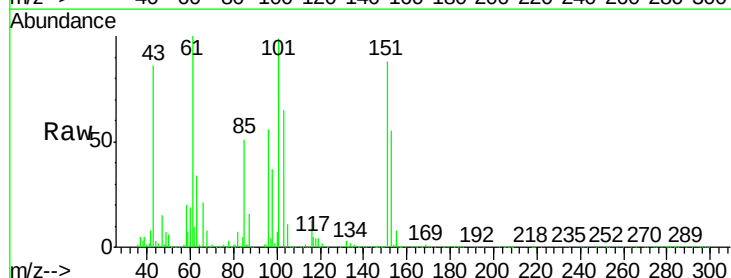
Acq: 8 May 2018 19:50

Tgt Ion: 43 Resp: 578666

Ion Ratio Lower Upper

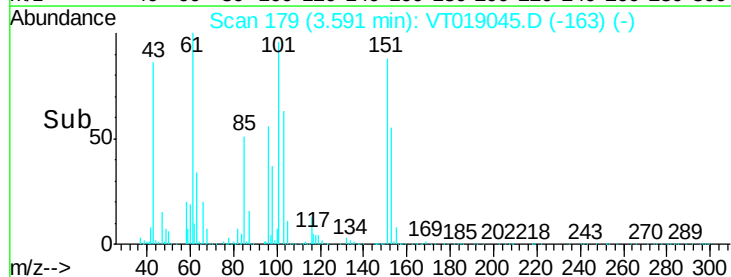
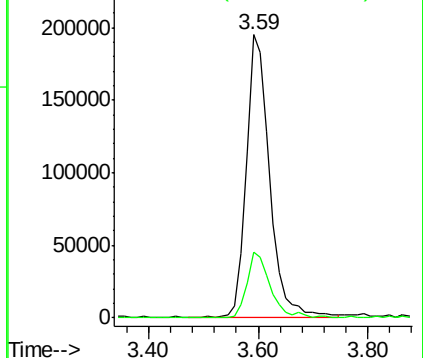
43 100

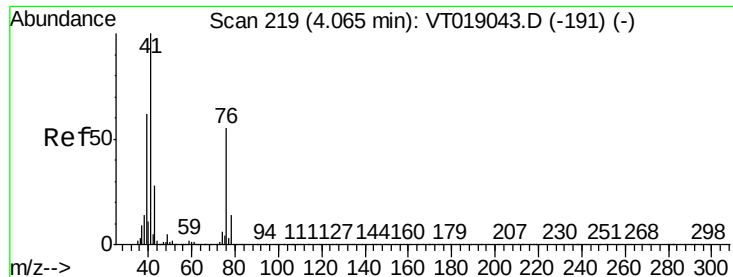
58 23.5 16.7 25.1



Abundance Ion 43.10 (42.80 to 43.80): VT0

Ion 58.10 (57.80 to 58.80): VT0





#17

Carbon Disulfide

Concen: 138.55 ug/l m

RT: 3.91 min Scan# 206

Delta R.T. -0.15 min

Lab File: VT019045.D

Acq: 8 May 2018 19:50

Instrument :

MSVOA\_T

ClientSampleId :

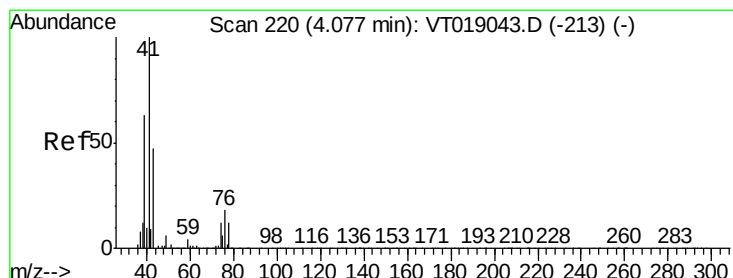
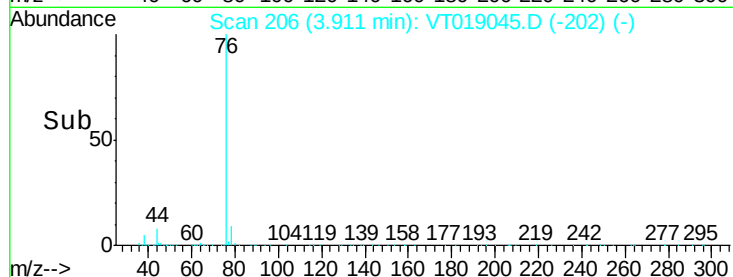
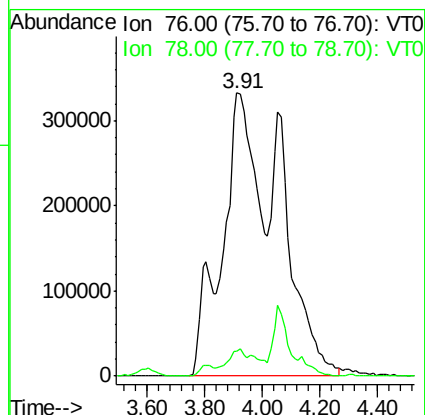
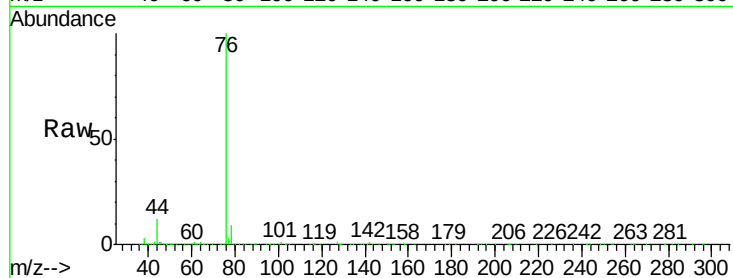
VSTDIC100

Tot Ion: 76 Resp: 4489526

Ion Ratio Lower Upper

76 100

78 8.9 19.8 29.8#



#18

Methyl Acetate

Concen: 61.23 ug/l

RT: 4.08 min Scan# 220

Delta R.T. 0.00 min

Lab File: VT019045.D

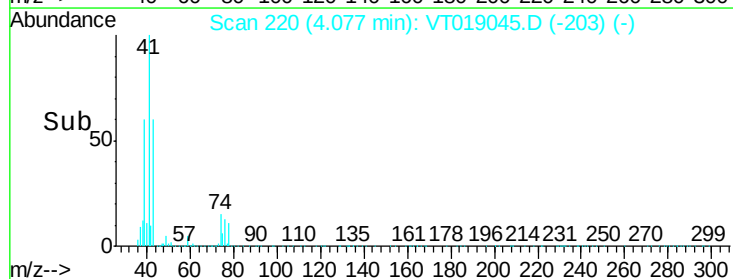
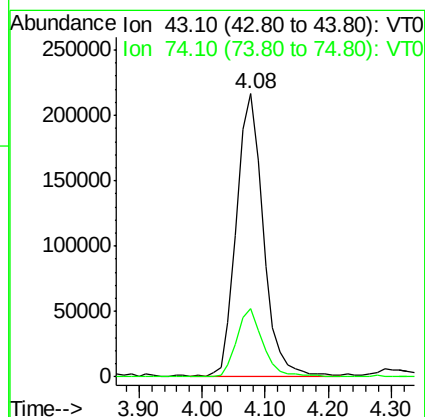
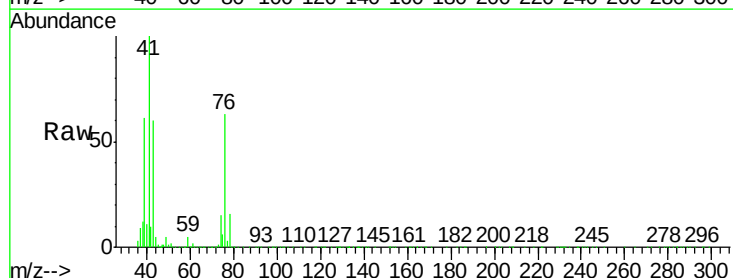
Acq: 8 May 2018 19:50

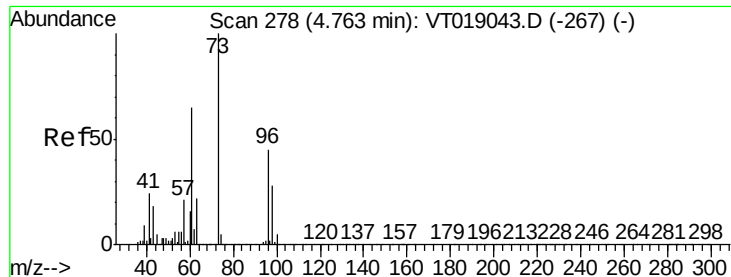
Tgt Ion: 43 Resp: 643225

Ion Ratio Lower Upper

43 100

74 24.2 19.8 29.8





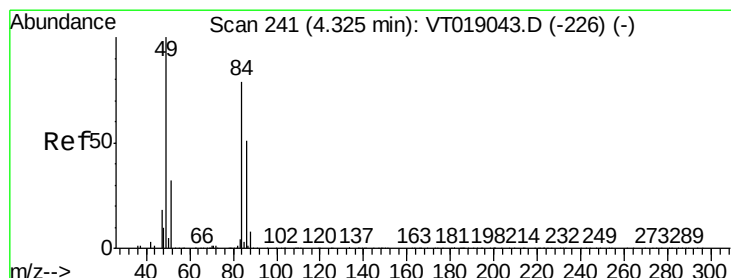
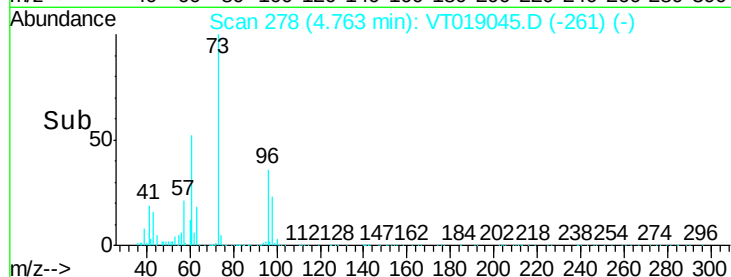
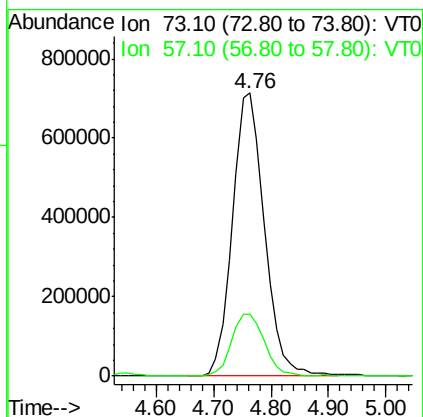
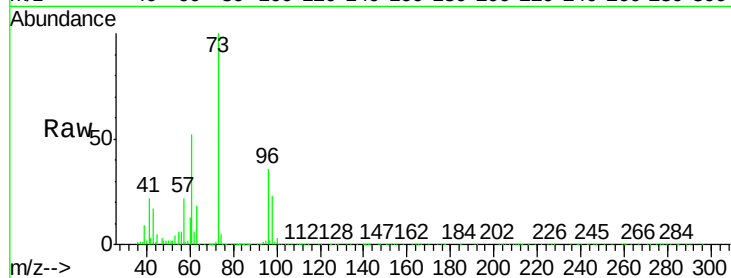
#19

Methyl tert-butyl Ether  
Concen: 123.52 ug/l  
RT: 4.76 min Scan# 278  
Delta R.T. 0.00 min  
Lab File: VT019045.D  
Acq: 8 May 2018 19:50

Instrument :  
MSVOA\_T  
ClientSampleId :  
VSTDIC100

Tot Ion: 73 Resp: 2757770

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 73  | 100   |       |       |
| 57  | 21.8  | 16.6  | 25.0  |

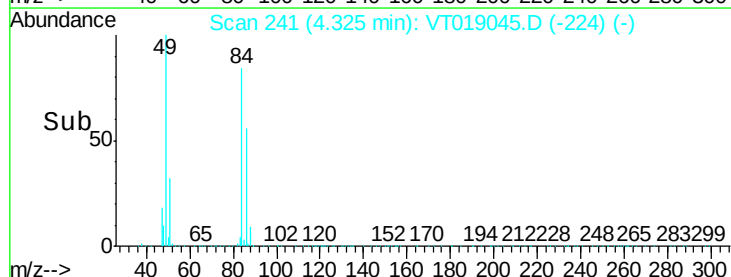
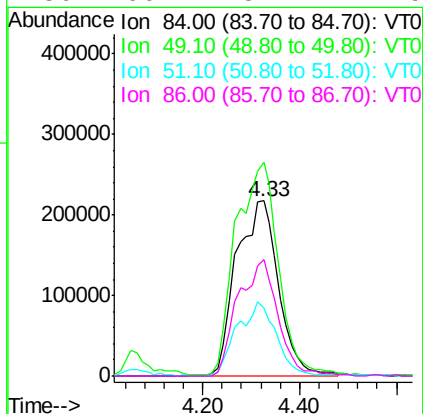
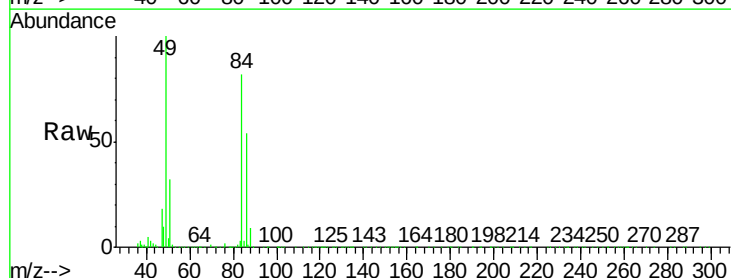


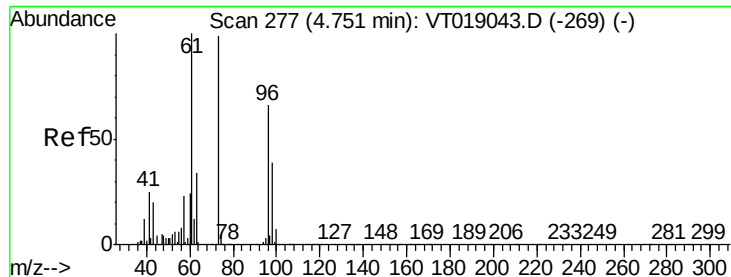
#20

Methylene Chloride  
Concen: 95.44 ug/l  
RT: 4.33 min Scan# 241  
Delta R.T. 0.00 min  
Lab File: VT019045.D  
Acq: 8 May 2018 19:50

Tgt Ion: 84 Resp: 1310168

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 122.2 | 103.0 | 154.4 |
| 51  | 38.7  | 33.3  | 49.9  |
| 86  | 66.4  | 51.7  | 77.5  |





#21

trans-1,2-Dichloroethene

Concen: 121.81 ug/l

RT: 4.74 min Scan# 276

Delta R.T. -0.01 min

Lab File: VT019045.D

Acq: 8 May 2018 19:50

Instrument :

MSVOA\_T

ClientSampleId :

VSTDIC100

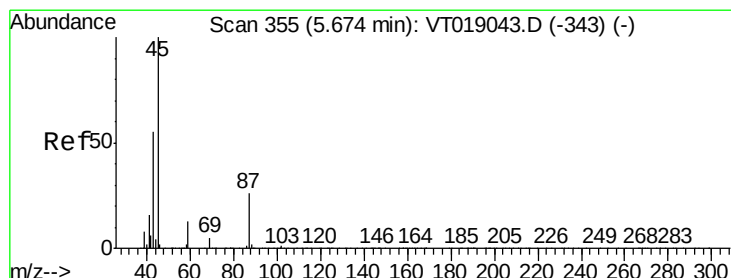
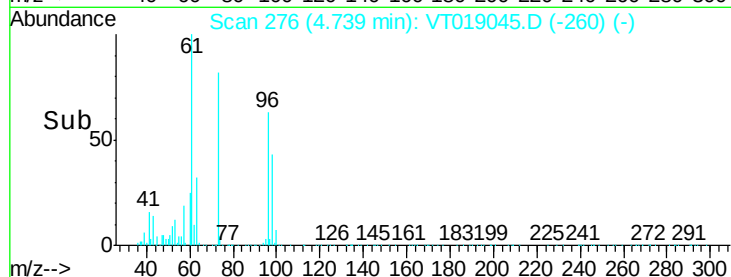
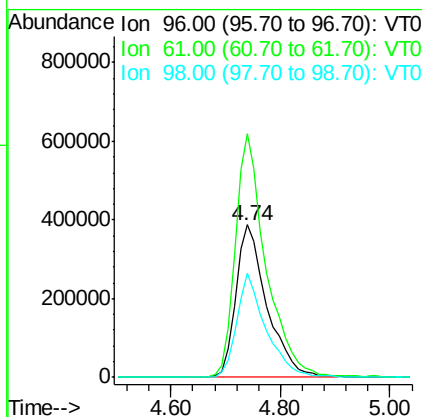
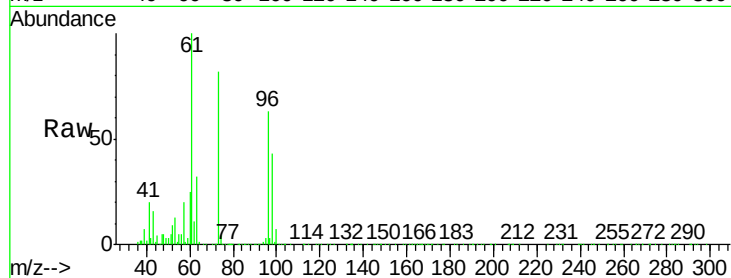
Tot Ion: 96 Resp: 1544020

Ion Ratio Lower Upper

96 100

61 159.6 120.8 181.2

98 68.1 47.4 71.2



#22

Diisopropyl ether

Concen: 116.90 ug/l

RT: 5.67 min Scan# 355

Delta R.T. 0.00 min

Lab File: VT019045.D

Acq: 8 May 2018 19:50

Tgt Ion: 45 Resp: 4258673

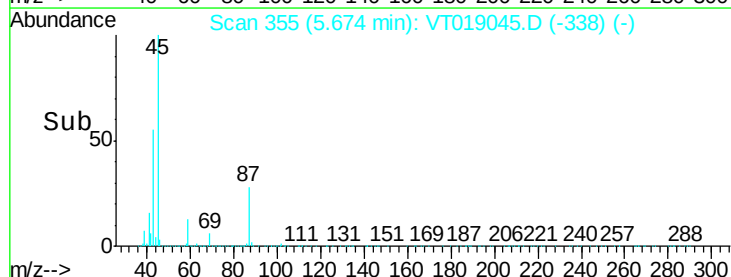
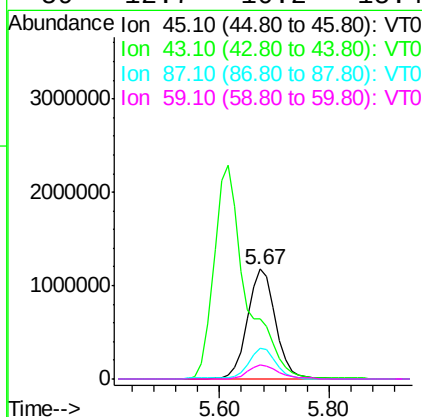
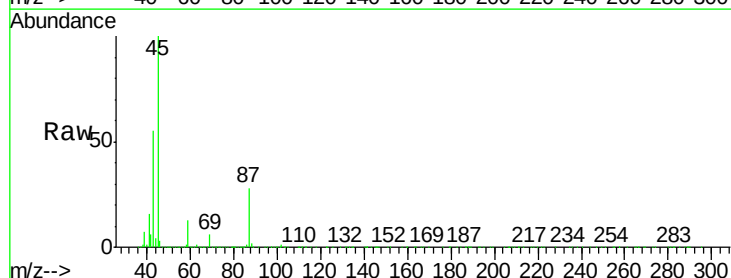
Ion Ratio Lower Upper

45 100

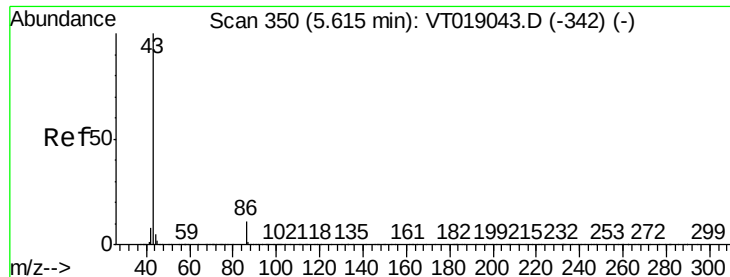
43 54.7 43.8 65.6

87 27.8 20.8 31.2

59 12.7 10.2 15.4







#23

Vinyl Acetate

Concen: 684.69 ug/l

RT: 5.61 min Scan# 350

Delta R.T. 0.00 min

Lab File: VT019045.D

Acq: 8 May 2018 19:50

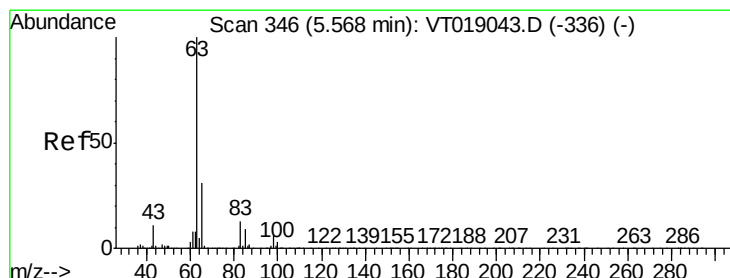
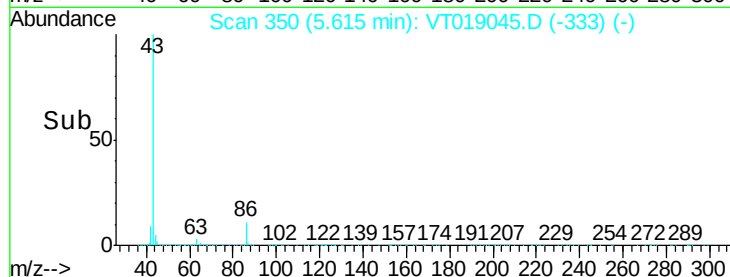
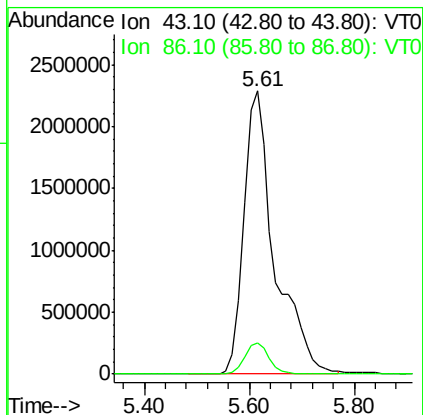
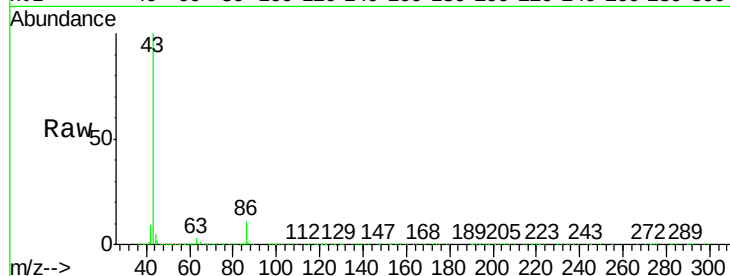
Instrument :  
MSVOA\_T  
ClientSampleId :  
VSTDIC100

Tot Ion: 43 Resp: 9268990

Ion Ratio Lower Upper

43 100

86 11.2 8.6 13.0



#24

1,1-Dichloroethane

Concen: 134.83 ug/l

RT: 5.56 min Scan# 345

Delta R.T. -0.01 min

Lab File: VT019045.D

Acq: 8 May 2018 19:50

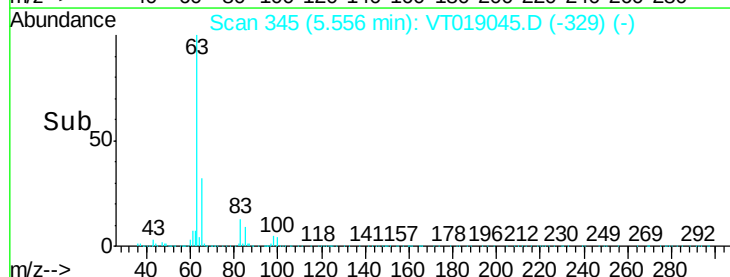
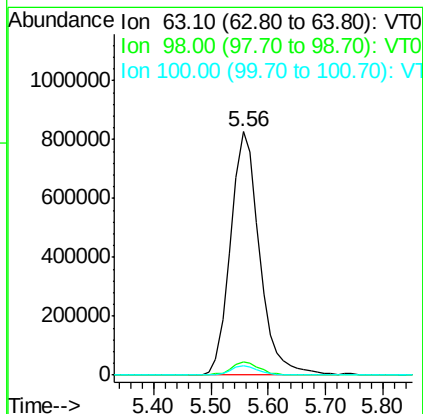
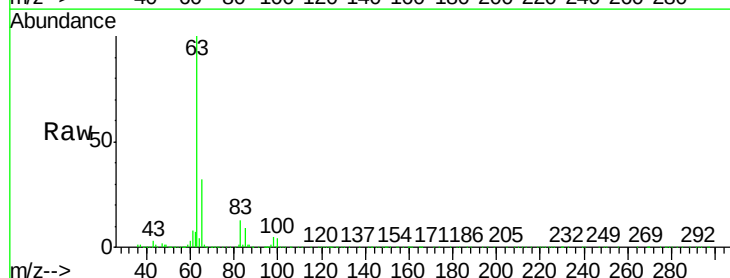
Tgt Ion: 63 Resp: 2904828

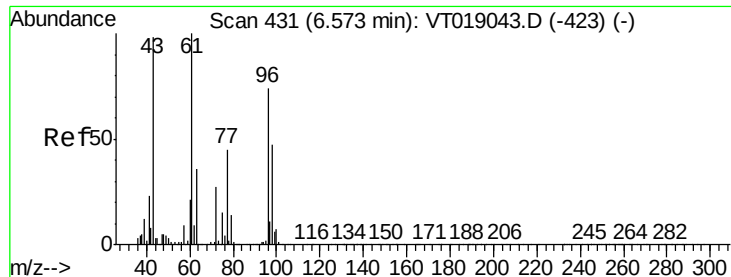
Ion Ratio Lower Upper

63 100

98 5.4 2.8 8.4

100 3.6 1.7 5.1





#25

2-Butanone

Concen: 419.12 ug/l

RT: 6.57 min Scan# 431

Delta R.T. 0.00 min

Lab File: VT019045.D

Acq: 8 May 2018 19:50

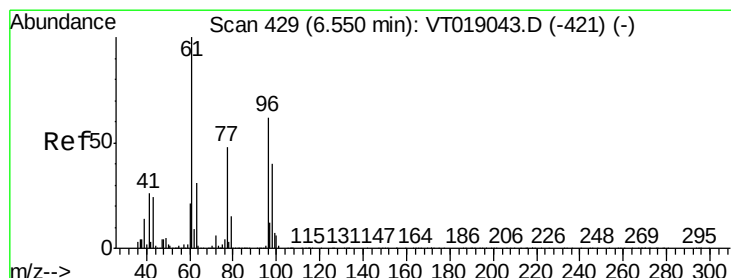
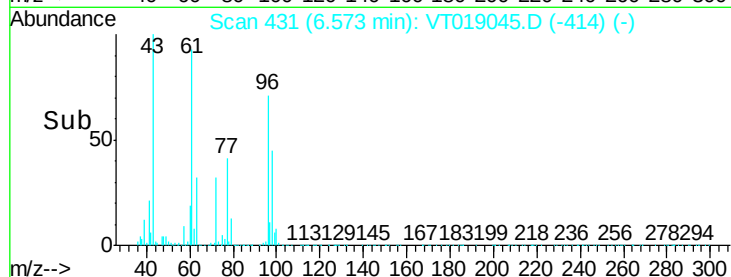
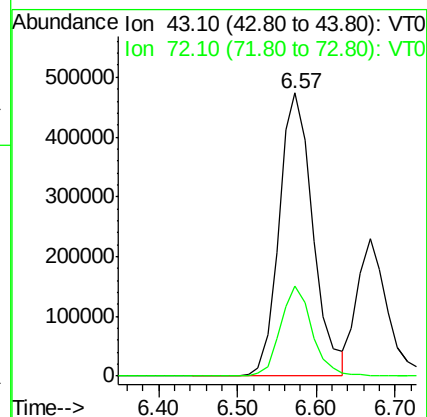
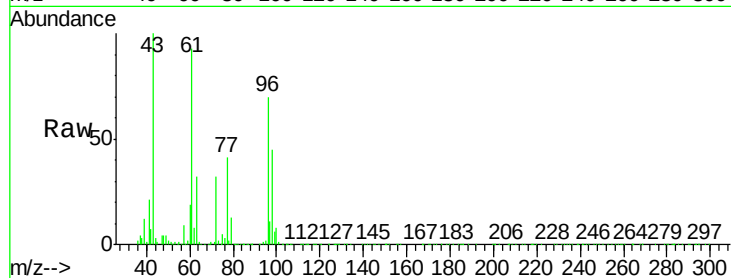
Instrument :  
MSVOA\_T  
ClientSampleId :  
VSTDIC100

Tot Ion: 43 Resp: 1409770

Ion Ratio Lower Upper

43 100

72 31.9 22.1 33.1



#26

2,2-Dichloropropane

Concen: 110.77 ug/l

RT: 6.55 min Scan# 429

Delta R.T. 0.00 min

Lab File: VT019045.D

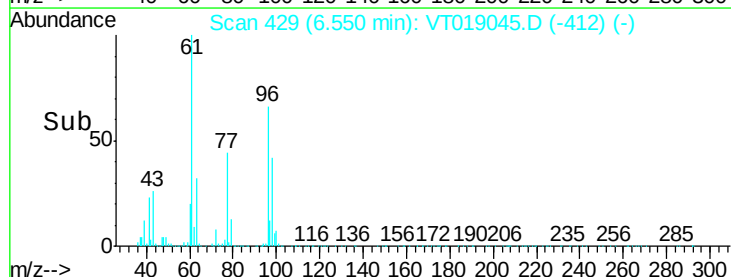
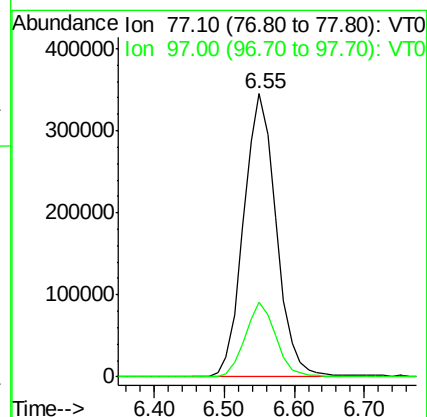
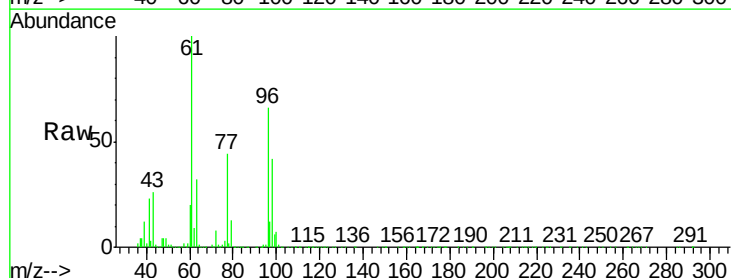
Acq: 8 May 2018 19:50

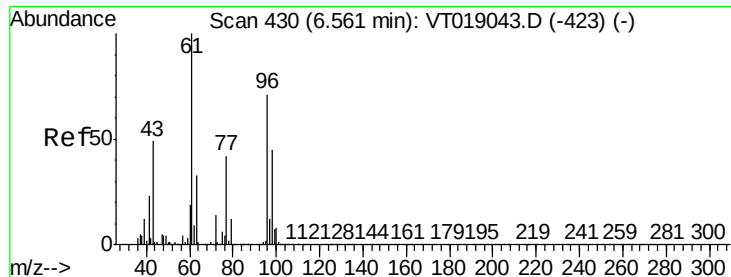
Tgt Ion: 77 Resp: 1123290

Ion Ratio Lower Upper

77 100

97 26.5 12.2 36.4





#27

cis-1,2-Dichloroethene

Concen: 124.86 ug/l

RT: 6.55 min Scan# 429

Delta R.T. -0.01 min

Lab File: VT019045.D

Acq: 8 May 2018 19:50

Instrument :

MSVOA\_T

ClientSampleId :

VSTDIC100

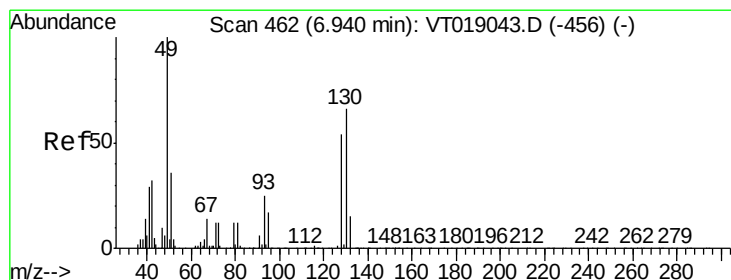
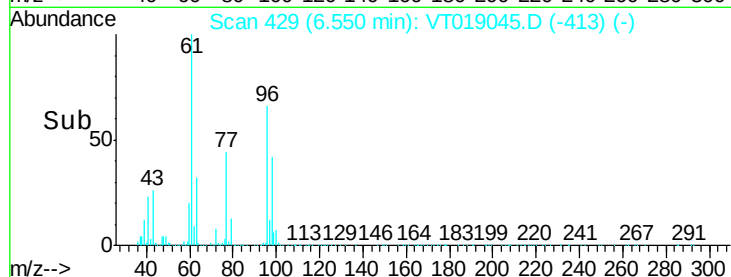
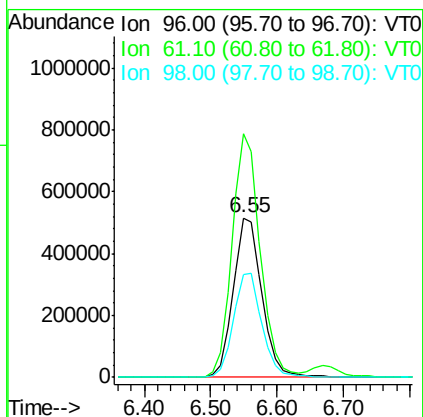
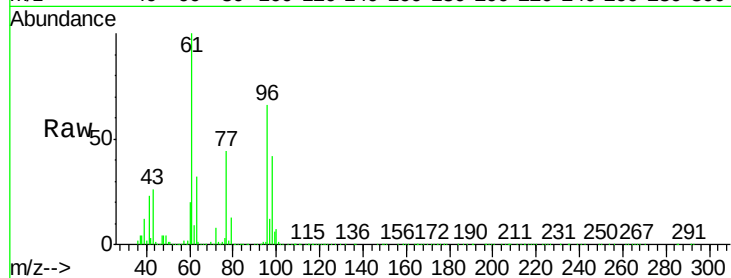
Tot Ion: 96 Resp: 1545476

Ion Ratio Lower Upper

96 100

61 152.4 0.0 282.0

98 64.0 0.0 125.8



#28

Bromochloromethane

Concen: 104.98 ug/l

RT: 6.94 min Scan# 462

Delta R.T. 0.00 min

Lab File: VT019045.D

Acq: 8 May 2018 19:50

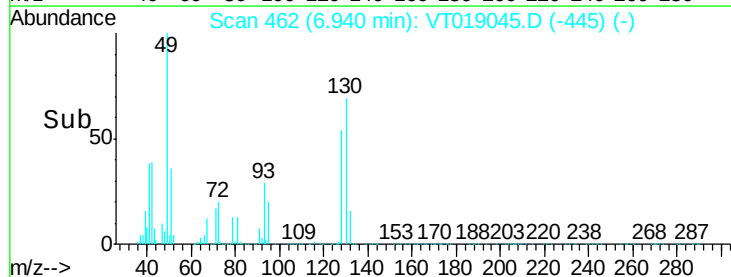
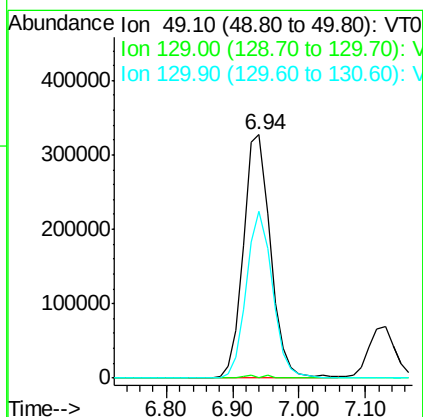
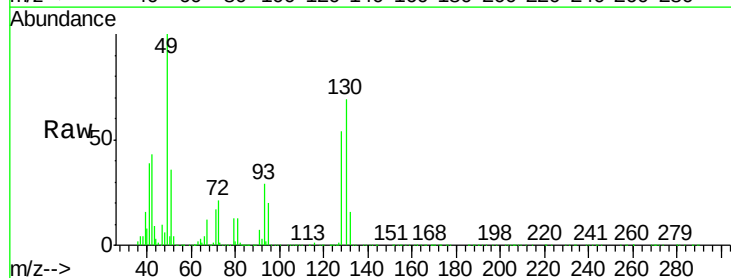
Tgt Ion: 49 Resp: 924545

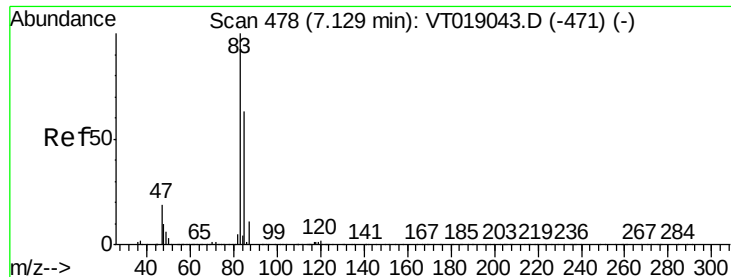
Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

130 68.6 52.4 78.6

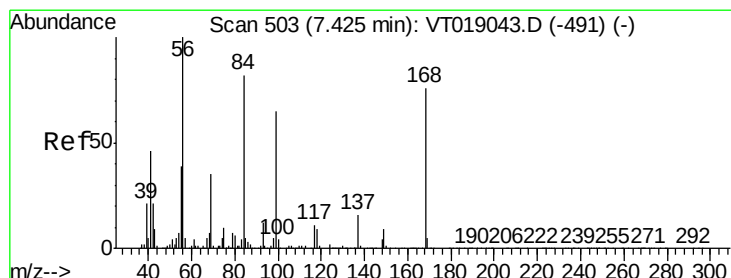
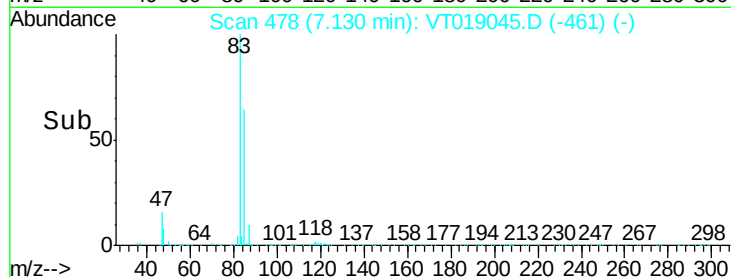
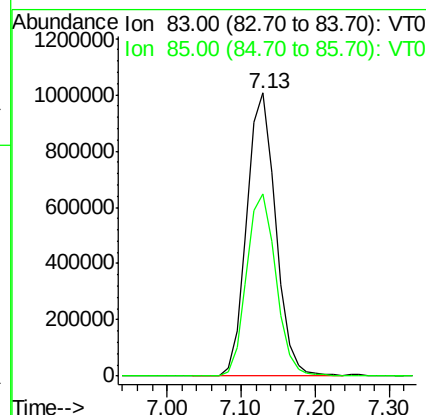
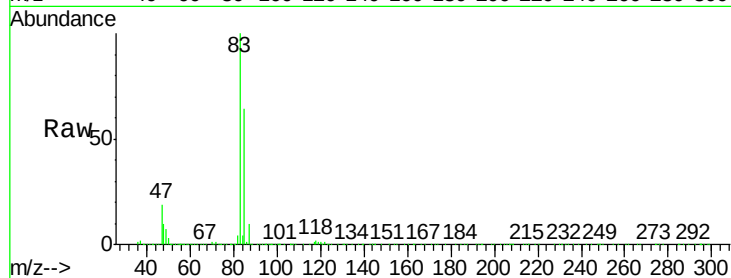




#29  
Chloroform  
Concen: 137.79 ug/l  
RT: 7.13 min Scan# 478  
Delta R.T. 0.00 min  
Lab File: VT019045.D  
Acq: 8 May 2018 19:50

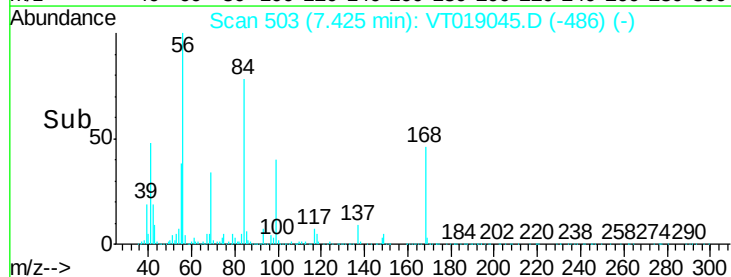
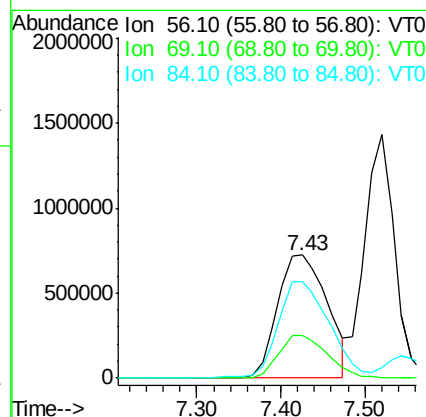
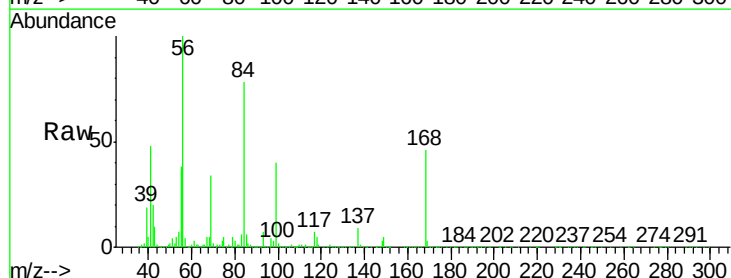
Instrument :  
MSVOA\_T  
ClientSampleId :  
VSTDIC100

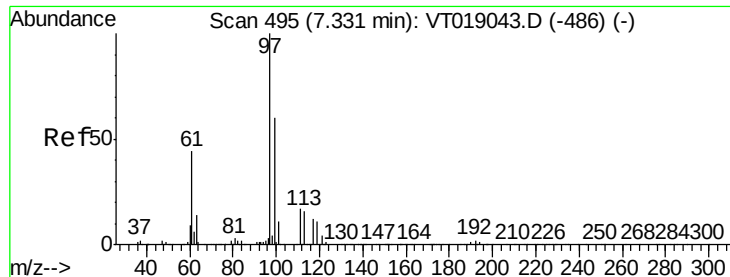
Tot Ion: 83 Resp: 2718253  
Ion Ratio Lower Upper  
83 100  
85 64.2 50.6 76.0



#30  
Cyclohexane  
Concen: 121.37 ug/l  
RT: 7.43 min Scan# 503  
Delta R.T. 0.00 min  
Lab File: VT019045.D  
Acq: 8 May 2018 19:50

Tgt Ion: 56 Resp: 2975881  
Ion Ratio Lower Upper  
56 100  
69 34.4 28.2 42.2  
84 78.5 65.6 98.4





#31

1,1,1-Trichloroethane

Concen: 147.54 ug/l

RT: 7.33 min Scan# 495

Delta R.T. 0.00 min

Lab File: VT019045.D

Acq: 8 May 2018 19:50

Instrument :

MSVOA\_T

ClientSampleId :

VSTDIC100

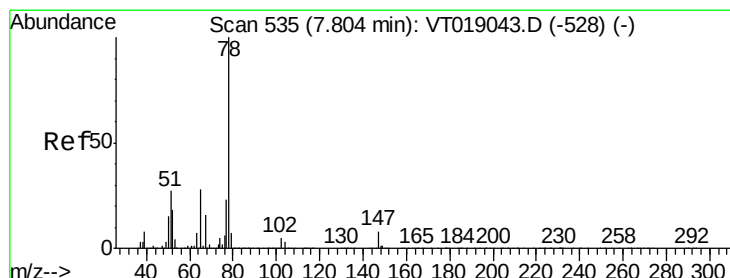
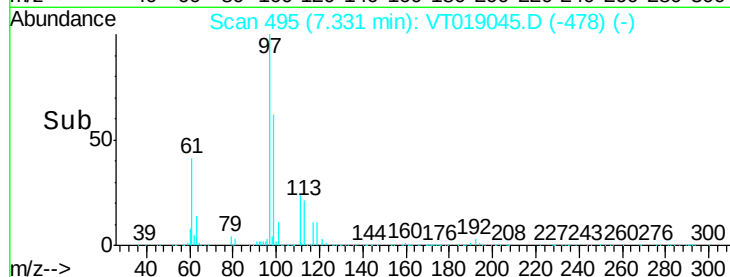
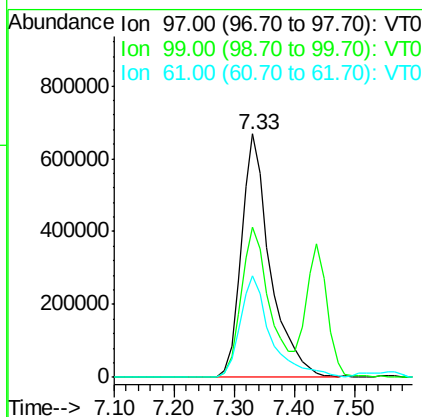
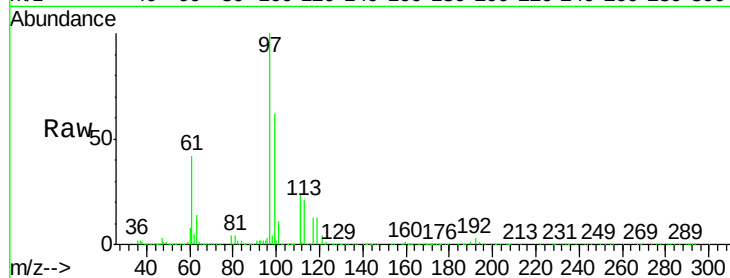
Tot Ion: 97 Resp: 2227763

Ion Ratio Lower Upper

97 100

99 61.8 47.6 71.4

61 41.5 35.3 52.9



#32

1,2-Dichloroethane-d4

Concen: 122.27 ug/l

RT: 7.80 min Scan# 535

Delta R.T. 0.00 min

Lab File: VT019045.D

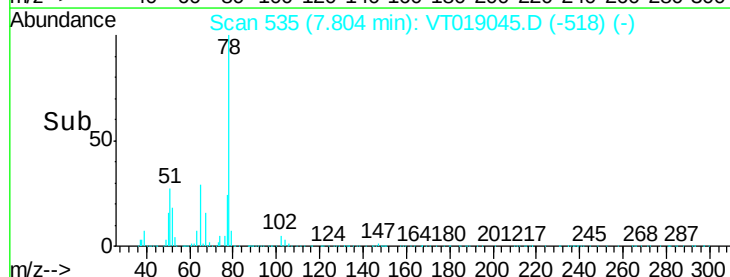
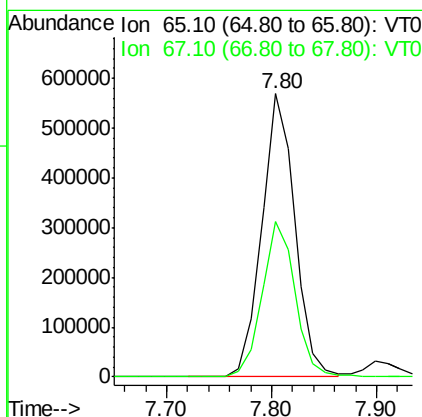
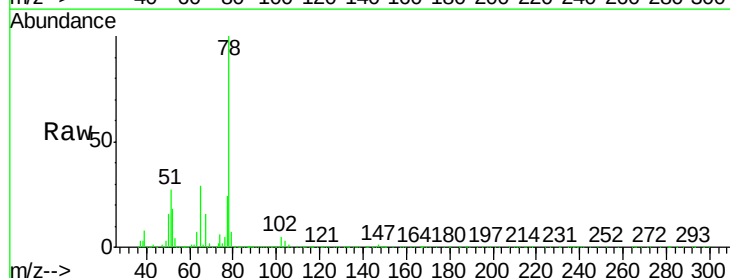
Acq: 8 May 2018 19:50

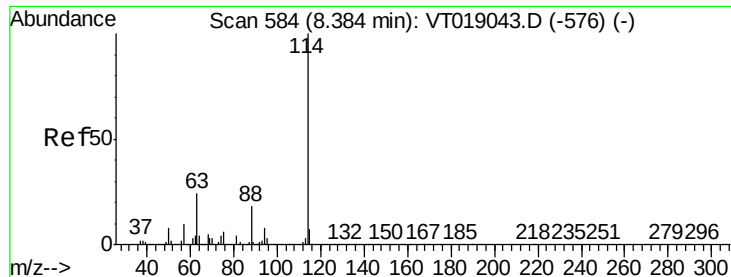
Tgt Ion: 65 Resp: 1247667

Ion Ratio Lower Upper

65 100

67 55.1 0.0 114.2





#33

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.38 min Scan# 584

Delta R.T. 0.00 min

Lab File: VT019045.D

Acq: 8 May 2018 19:50

Instrument :

MSVOA\_T

ClientSampleId :

VSTDIC100

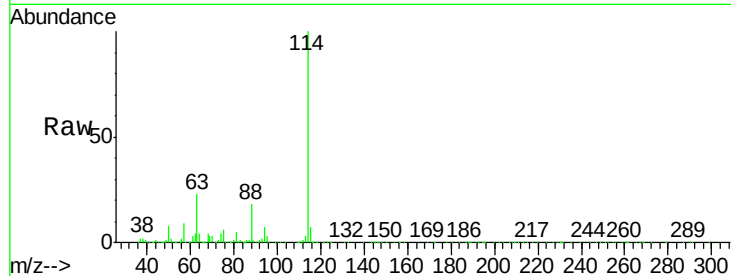
Tot Ion:114 Resp: 2091655

Ion Ratio Lower Upper

114 100

63 22.5 0.0 48.8

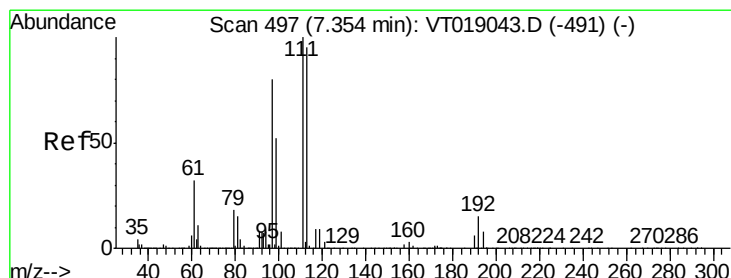
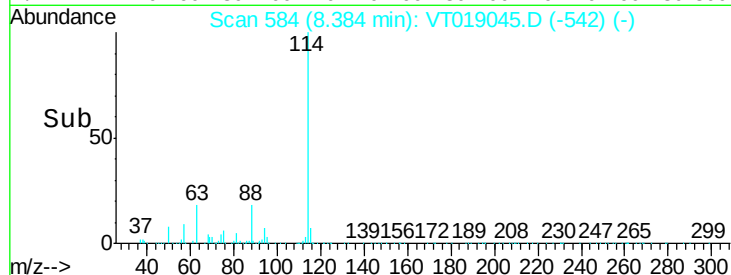
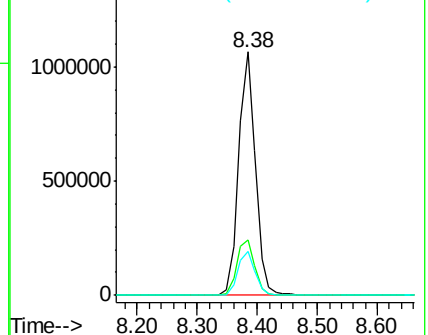
88 18.2 0.0 37.0



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VT0

Ion 88.10 (87.80 to 88.80): VT0



#34

Dibromofluoromethane

Concen: 110.50 ug/l

RT: 7.35 min Scan# 497

Delta R.T. 0.00 min

Lab File: VT019045.D

Acq: 8 May 2018 19:50

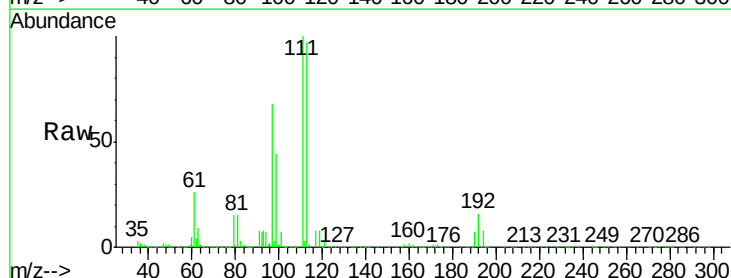
Tgt Ion:113 Resp: 1251701

Ion Ratio Lower Upper

113 100

111 102.7 84.0 126.0

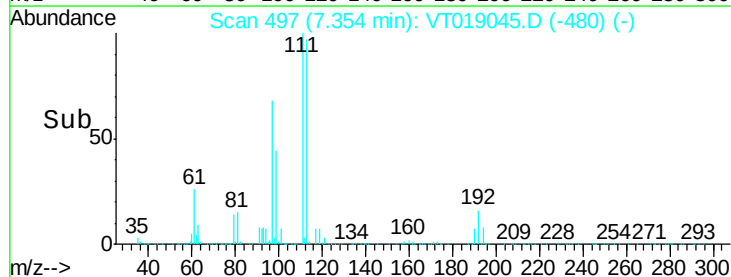
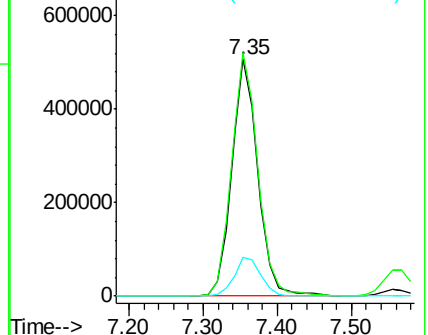
192 16.2 12.9 19.3

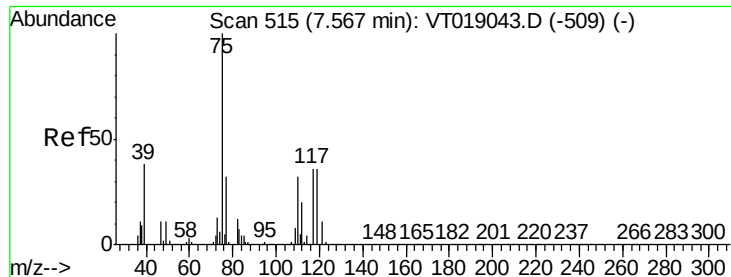


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#35

1,1-Dichloropropene

Concen: 122.86 ug/l

RT: 7.56 min Scan# 514

Delta R.T. -0.01 min

Lab File: VT019045.D

Acq: 8 May 2018 19:50

Instrument :

MSVOA\_T

ClientSampleId :

VSTDIC100

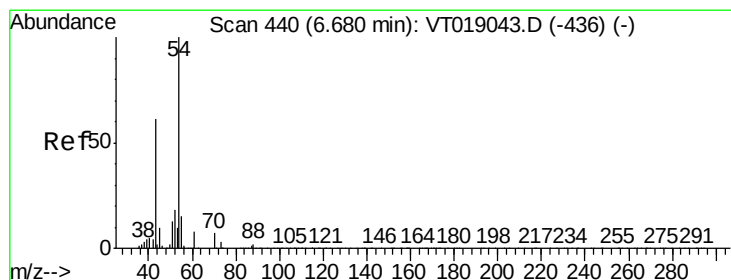
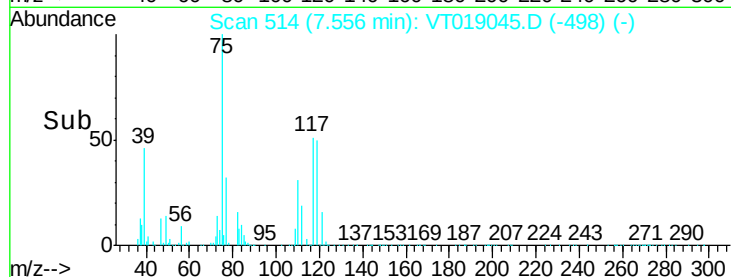
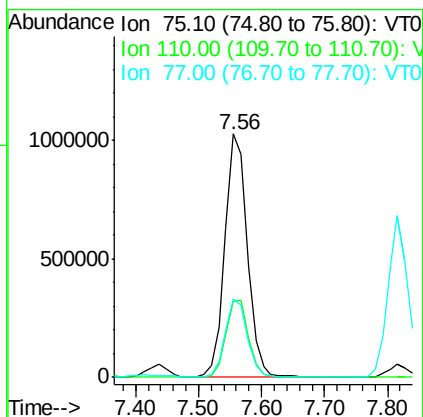
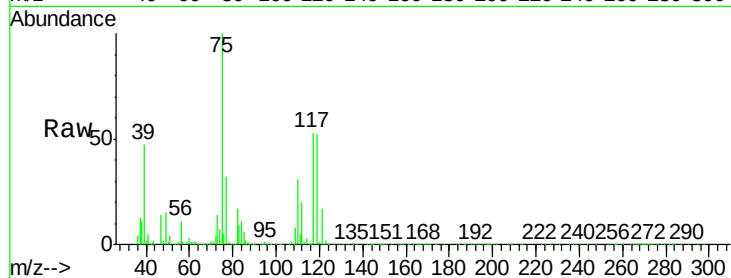
Tot Ion: 75 Resp: 2538719

Ion Ratio Lower Upper

75 100

110 31.3 15.9 47.6

77 32.0 25.9 38.9



#36

Ethyl Acetate

Concen: 79.27 ug/l

RT: 6.67 min Scan# 439

Delta R.T. -0.01 min

Lab File: VT019045.D

Acq: 8 May 2018 19:50

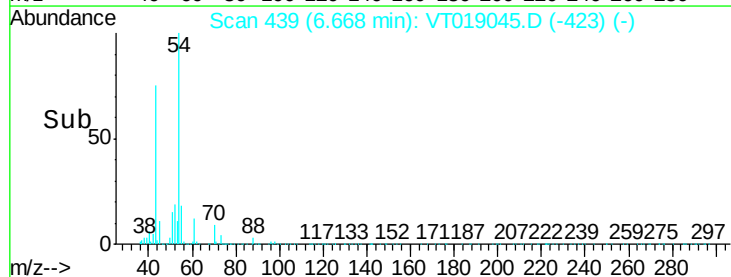
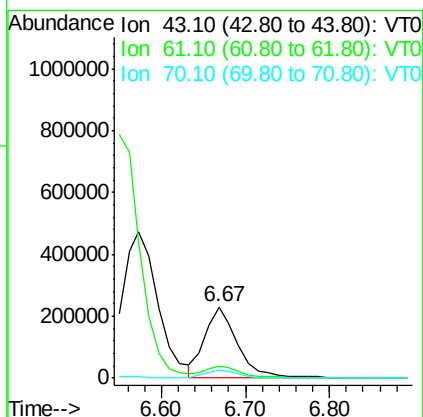
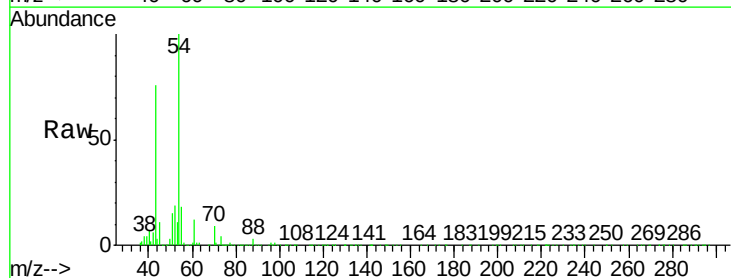
Tgt Ion: 43 Resp: 605541

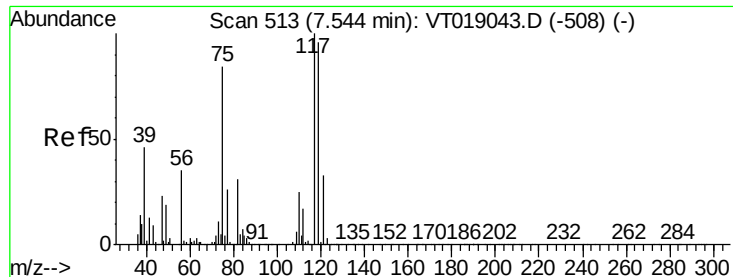
Ion Ratio Lower Upper

43 100

61 16.1 14.2 21.2

70 11.4 8.4 12.6





#37

Carbon Tetrachloride

Concen: 121.41 ug/l

RT: 7.54 min Scan# 513

Delta R.T. 0.00 min

Lab File: VT019045.D

Acq: 8 May 2018 19:50

Instrument :

MSVOA\_T

ClientSampleId :

VSTDIC100

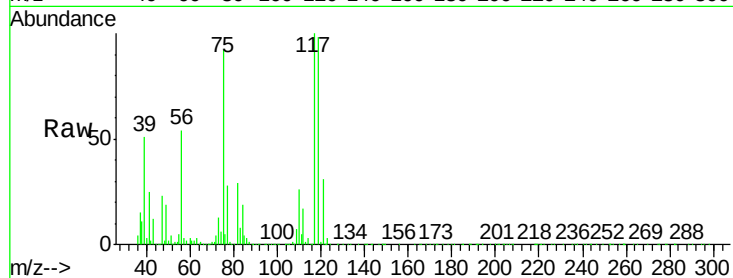
Tot Ion:117 Resp: 2099220

Ion Ratio Lower Upper

117 100

119 98.4 76.5 114.7

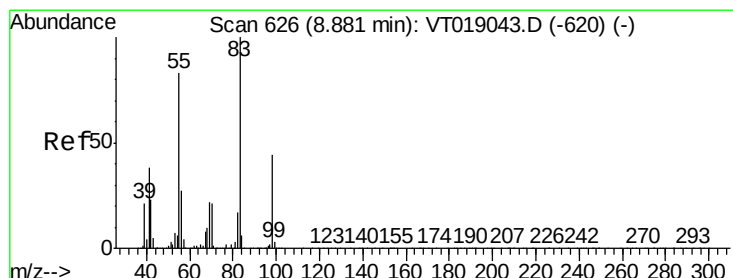
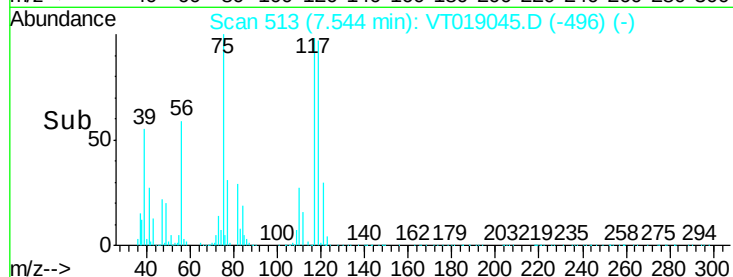
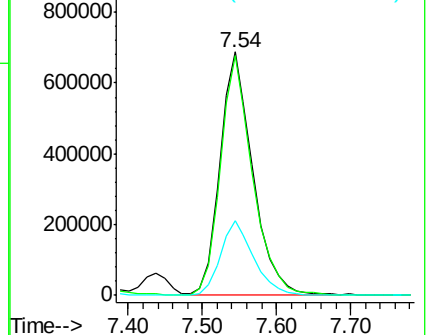
121 30.5 26.0 39.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

Ion 120.90 (120.60 to 121.60): V



#38

Methylcyclohexane

Concen: 117.13 ug/l

RT: 8.88 min Scan# 626

Delta R.T. 0.00 min

Lab File: VT019045.D

Acq: 8 May 2018 19:50

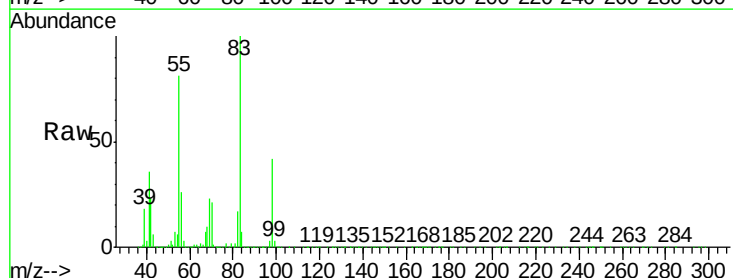
Tgt Ion: 83 Resp: 3092920

Ion Ratio Lower Upper

83 100

55 80.9 66.7 100.1

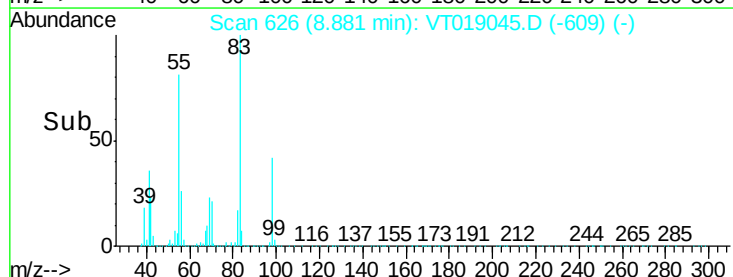
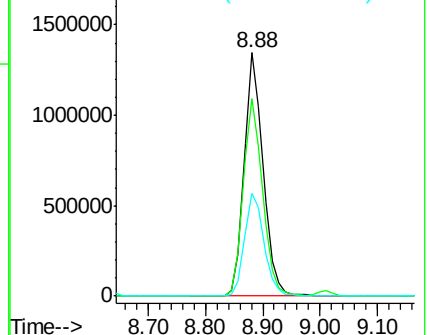
98 42.2 35.5 53.3



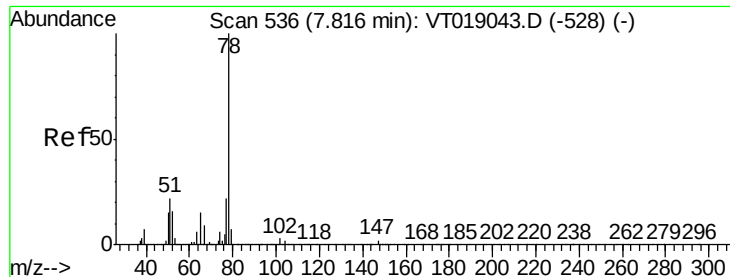
Abundance Ion 83.10 (82.80 to 83.80): VT0

Ion 55.10 (54.80 to 55.80): VT0

Ion 98.10 (97.80 to 98.80): VT0







#39

Benzene

Concen: 110.05 ug/l

RT: 7.82 min Scan# 536

Delta R.T. 0.00 min

Lab File: VT019045.D

Acq: 8 May 2018 19:50

Instrument :

MSVOA\_T

ClientSampleId :

VSTDIC100

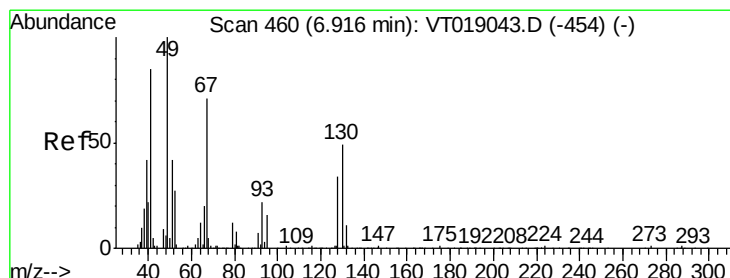
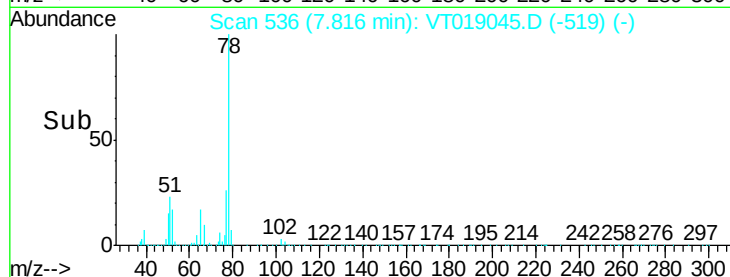
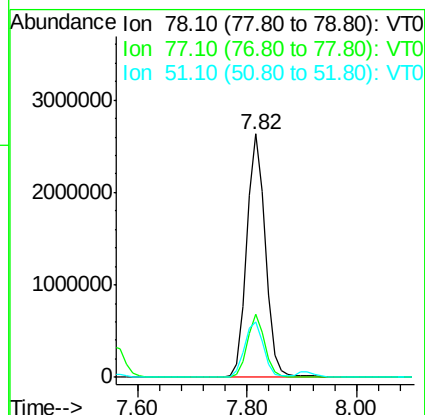
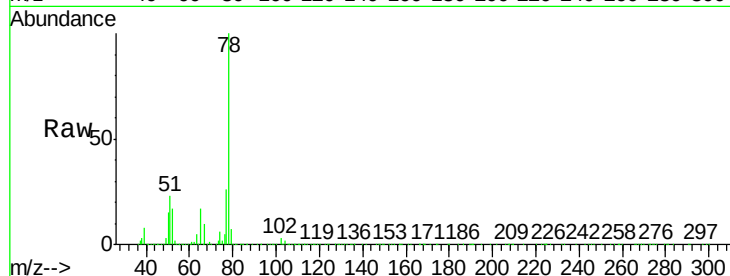
Tot Ion: 78 Resp: 6285572

Ion Ratio Lower Upper

78 100

77 26.0 18.0 27.0

51 22.7 17.3 25.9



#40

Methacrylonitrile

Concen: 75.57 ug/l

RT: 6.92 min Scan# 460

Delta R.T. 0.00 min

Lab File: VT019045.D

Acq: 8 May 2018 19:50

Tgt Ion: 41 Resp: 340746

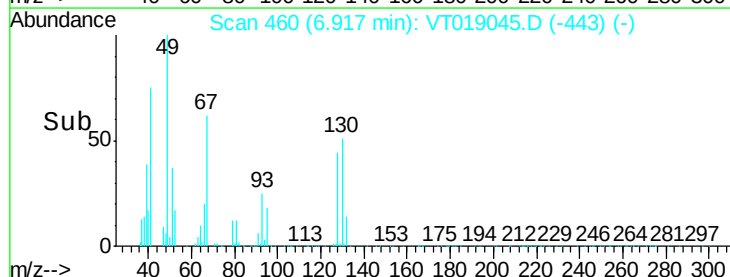
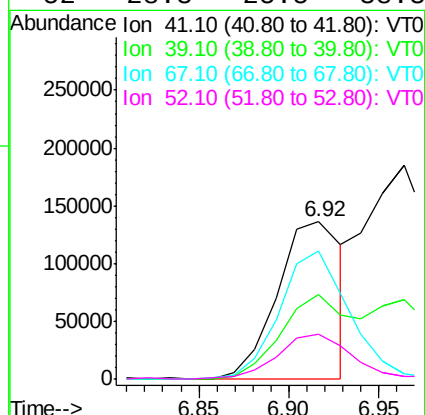
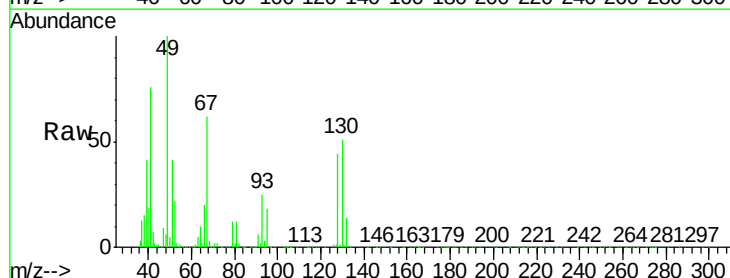
Ion Ratio Lower Upper

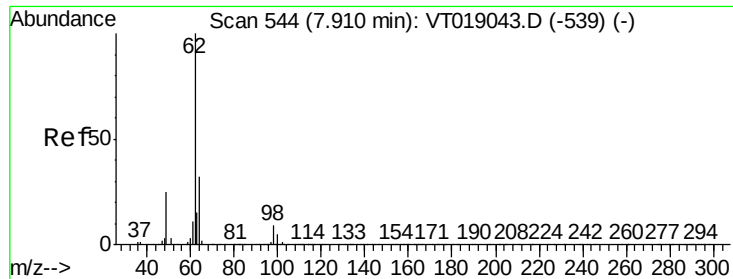
41 100

39 53.8 39.4 59.0

67 81.2 66.8 100.2

52 28.3 25.5 38.3

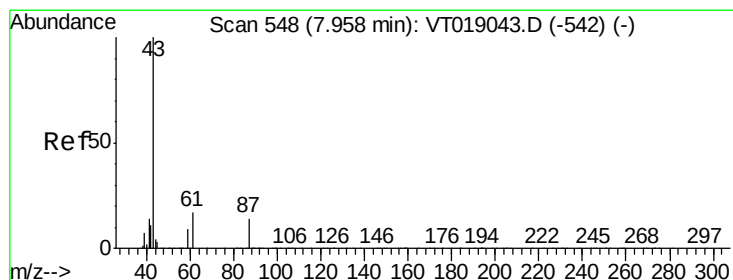
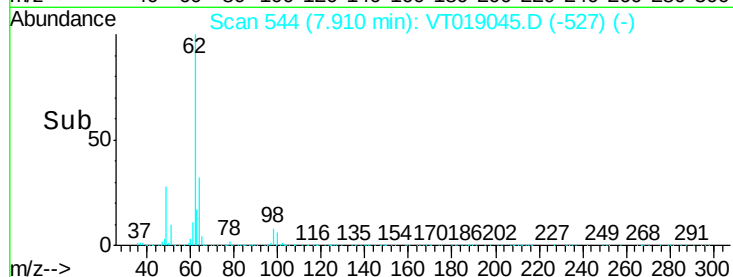
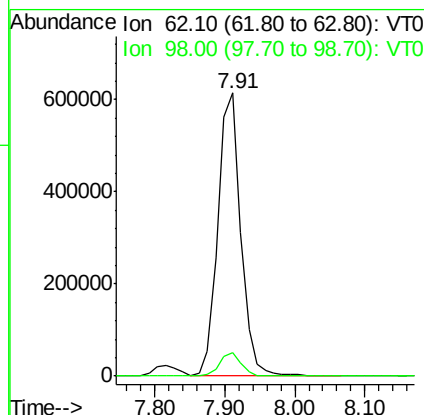
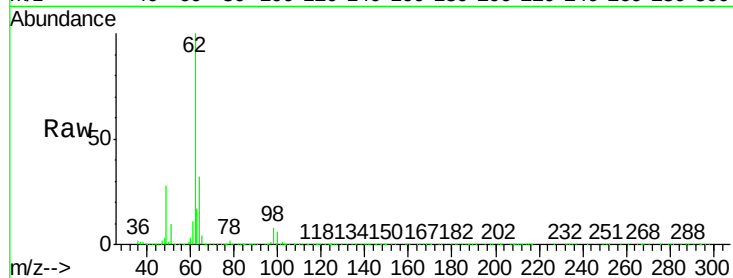




#41  
 1,2-Dichloroethane  
 Concen: 101.36 ug/l  
 RT: 7.91 min Scan# 544  
 Delta R.T. 0.00 min  
 Lab File: VT019045.D  
 Acq: 8 May 2018 19:50

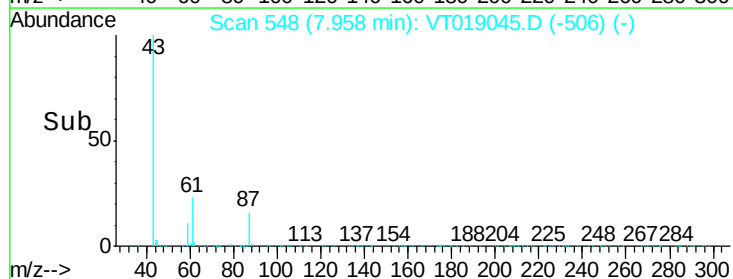
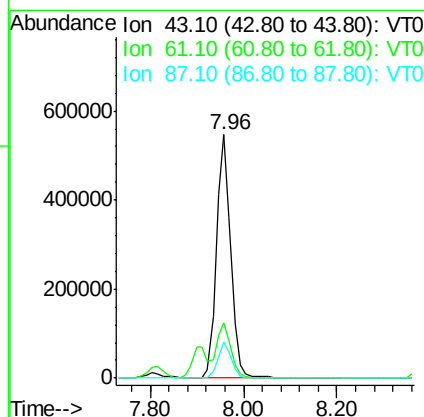
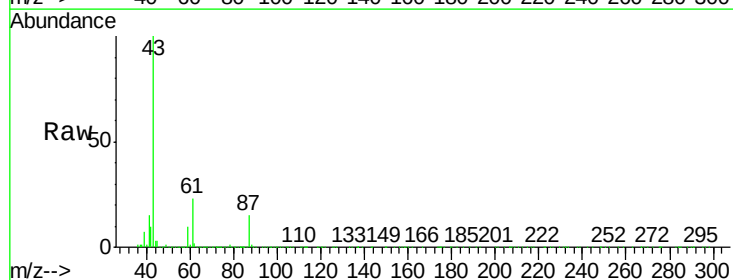
Instrument :  
 MSVOA\_T  
 ClientSampleId :  
 VSTDIC100

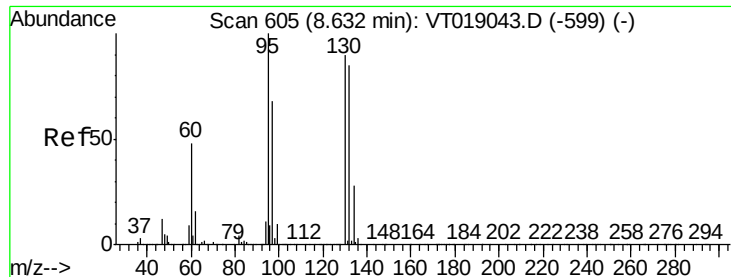
Tot Ion: 62 Resp: 1392881  
 Ion Ratio Lower Upper  
 62 100  
 98 8.3 0.0 17.4



#42  
 Isopropyl Acetate  
 Concen: 93.92 ug/l  
 RT: 7.96 min Scan# 548  
 Delta R.T. 0.00 min  
 Lab File: VT019045.D  
 Acq: 8 May 2018 19:50

Tgt Ion: 43 Resp: 1176387  
 Ion Ratio Lower Upper  
 43 100  
 61 23.0 17.9 26.9  
 87 15.1 11.0 16.6





#43

Trichloroethene

Concen: 104.62 ug/l

RT: 8.63 min Scan# 605

Delta R.T. 0.00 min

Lab File: VT019045.D

Acq: 8 May 2018 19:50

Instrument :

MSVOA\_T

ClientSampleId :

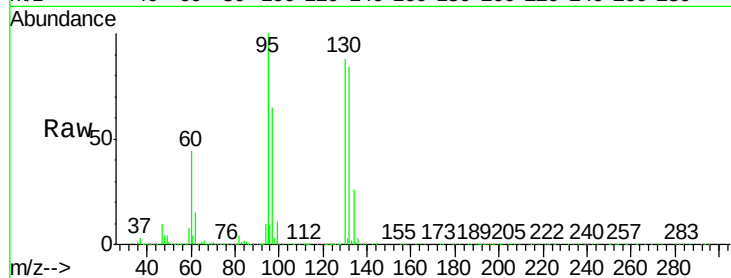
VSTDIC100

Tot Ion:130 Resp: 1515217

Ion Ratio Lower Upper

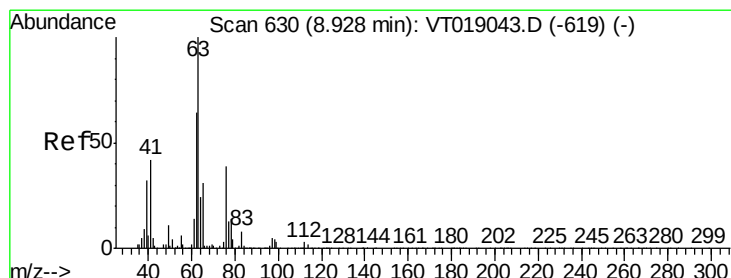
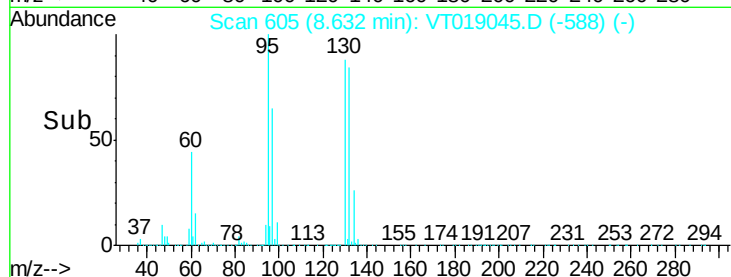
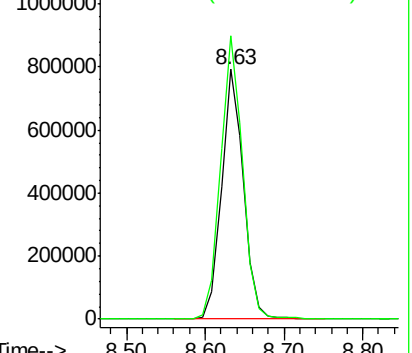
130 100

95 113.3 0.0 222.6



Abundance Ion 129.90 (129.60 to 130.60): VT0

Ion 95.00 (94.70 to 95.70): VT0



#44

1,2-Dichloropropane

Concen: 115.60 ug/l

RT: 8.92 min Scan# 629

Delta R.T. -0.01 min

Lab File: VT019045.D

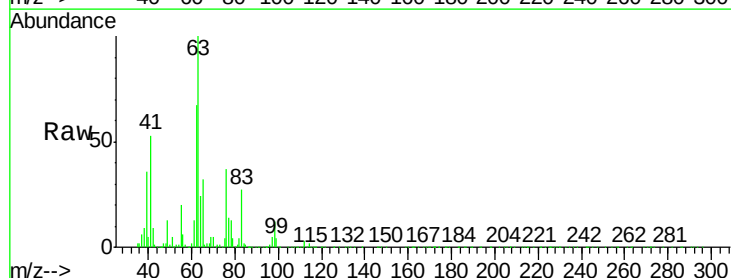
Acq: 8 May 2018 19:50

Tgt Ion: 63 Resp: 1529858

Ion Ratio Lower Upper

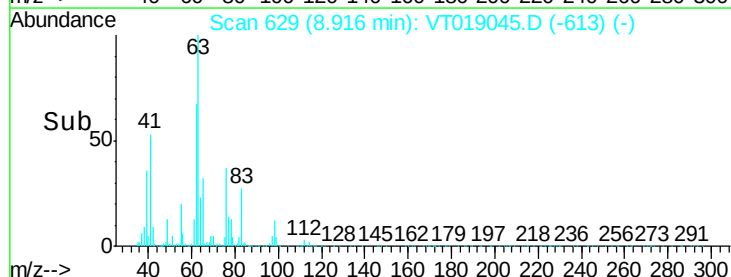
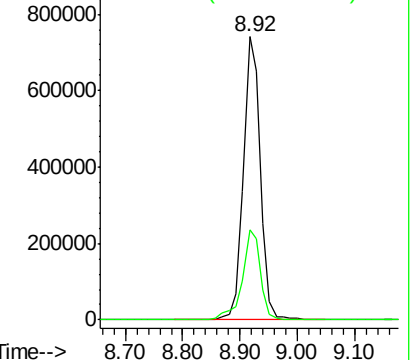
63 100

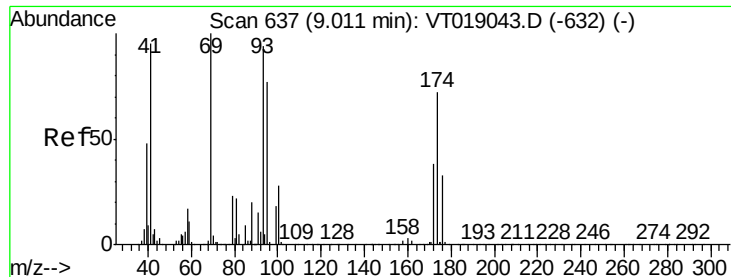
65 31.6 25.0 37.4



Abundance Ion 63.10 (62.80 to 63.80): VT0

Ion 65.10 (64.80 to 65.80): VT0

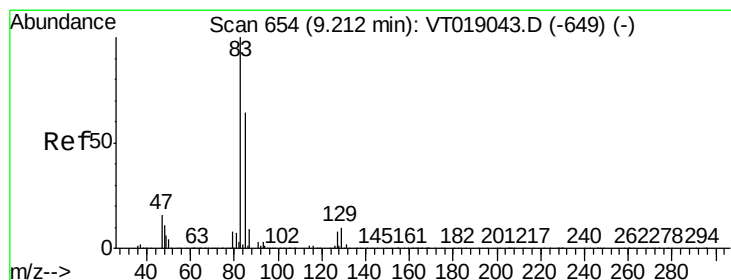
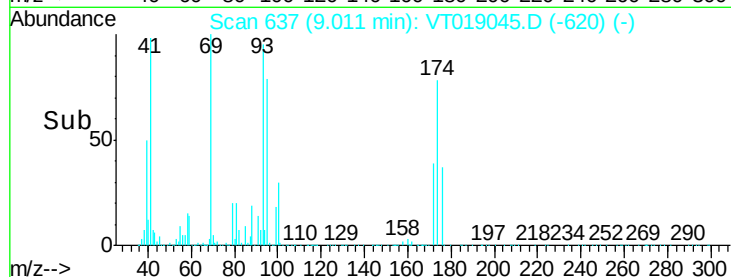
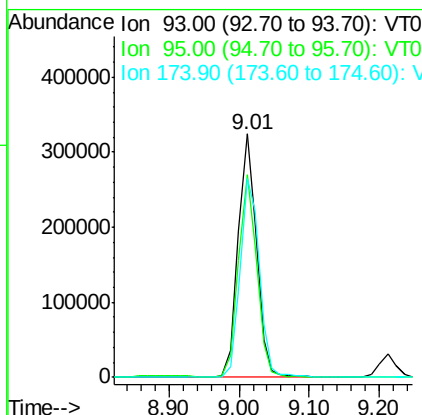
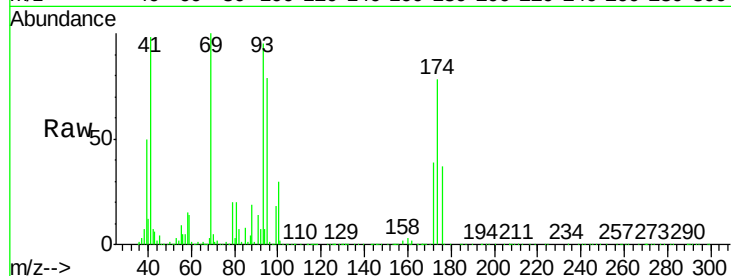




#45  
Dibromomethane  
Concen: 102.52 ug/l  
RT: 9.01 min Scan# 637  
Delta R.T. 0.00 min  
Lab File: VT019045.D  
Acq: 8 May 2018 19:50

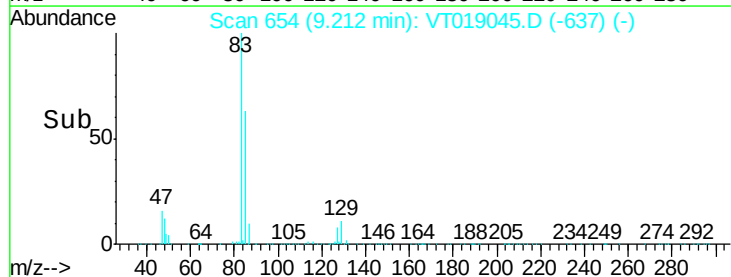
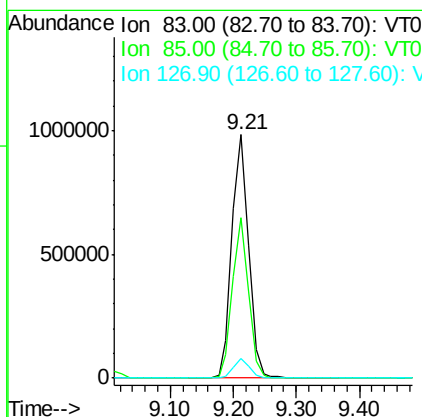
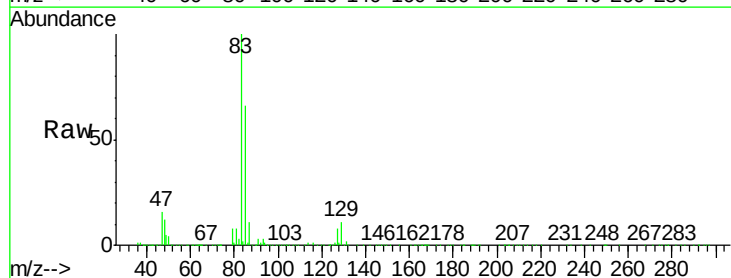
Instrument :  
MSVOA\_T  
ClientSampleId :  
VSTDIC100

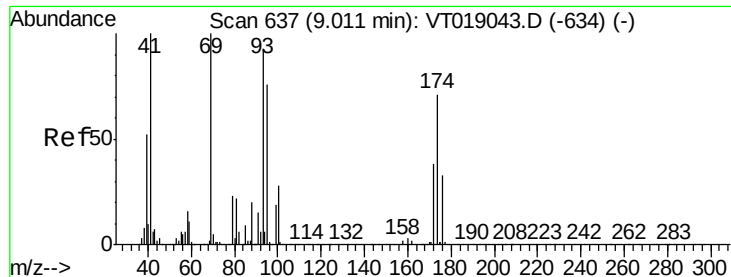
Tot Ion: 93 Resp: 595526  
Ion Ratio Lower Upper  
93 100  
95 83.3 65.5 98.3  
174 81.9 60.9 91.3



#46  
Bromodichloromethane  
Concen: 118.65 ug/l  
RT: 9.21 min Scan# 654  
Delta R.T. 0.00 min  
Lab File: VT019045.D  
Acq: 8 May 2018 19:50

Tgt Ion: 83 Resp: 1793543  
Ion Ratio Lower Upper  
83 100  
85 65.7 51.3 76.9  
127 7.9 6.1 9.1

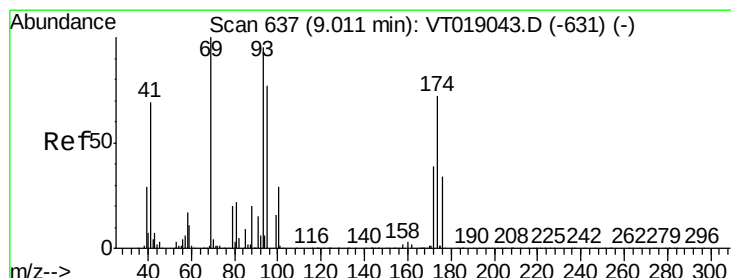
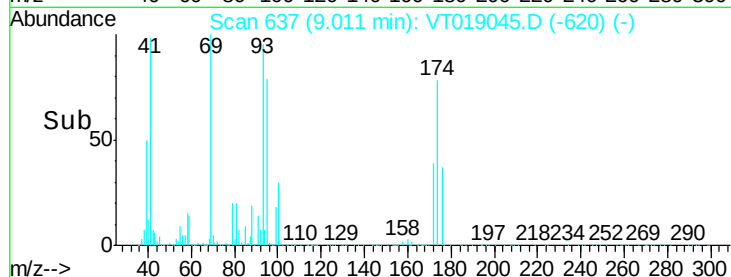
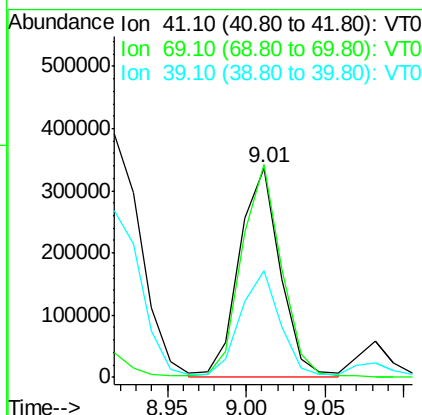
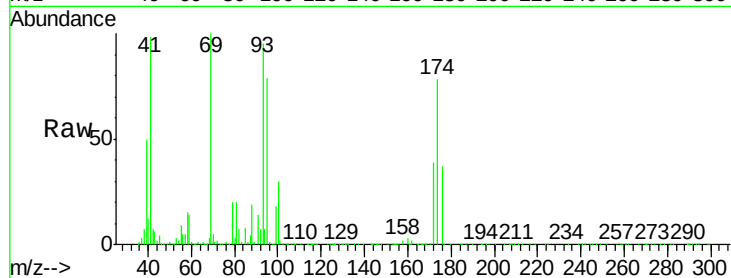




#47  
Methvl methacrylate  
Concen: 85.09 ug/l  
RT: 9.01 min Scan# 637  
Delta R.T. 0.00 min  
Lab File: VT019045.D  
Acq: 8 May 2018 19:50

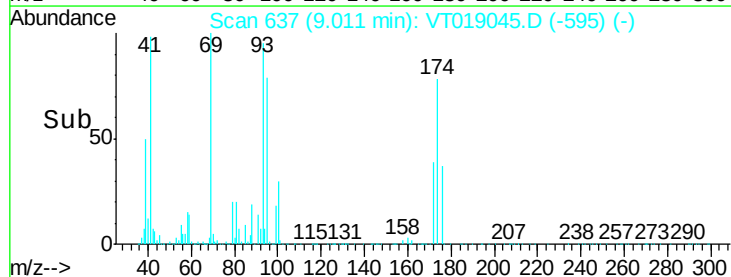
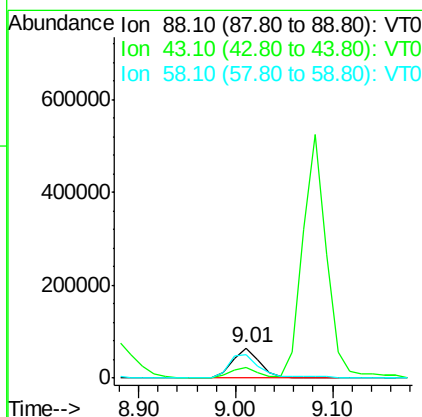
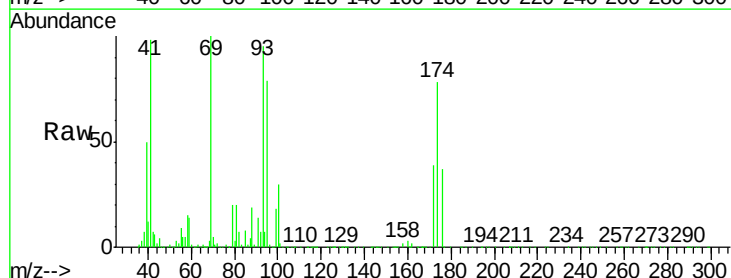
Instrument :  
MSVOA\_T  
ClientSampleId :  
VSTDICC100

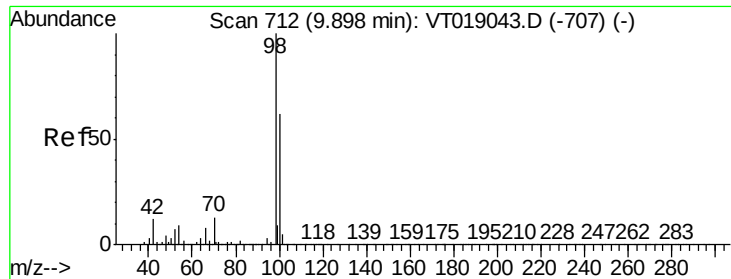
Tot Ion: 41 Resp: 604387  
Ion Ratio Lower Upper  
41 100  
69 101.6 78.4 117.6  
39 51.1 41.4 62.2



#48  
1,4-Dioxane  
Concen: 1678.94 ug/l  
RT: 9.01 min Scan# 637  
Delta R.T. 0.00 min  
Lab File: VT019045.D  
Acq: 8 May 2018 19:50

Tgt Ion: 88 Resp: 131432  
Ion Ratio Lower Upper  
88 100  
43 34.0 30.5 45.7  
58 78.3 67.5 101.3





#49

Toluene-d8

Concen: 106.18 ug/l

RT: 9.90 min Scan# 712

Delta R.T. 0.00 min

Lab File: VT019045.D

Acq: 8 May 2018 19:50

Instrument :

MSVOA\_T

ClientSampleId :

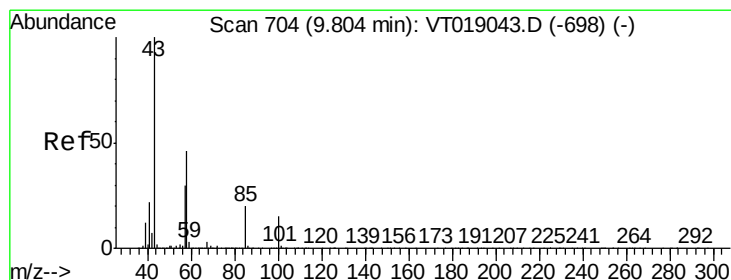
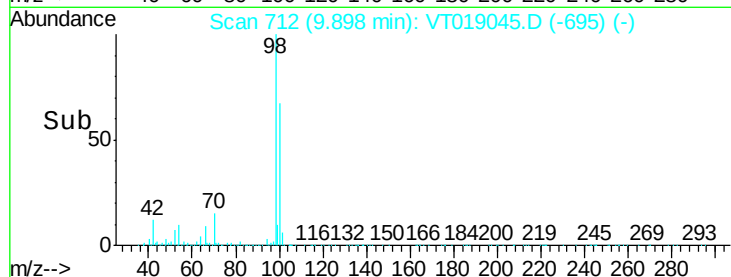
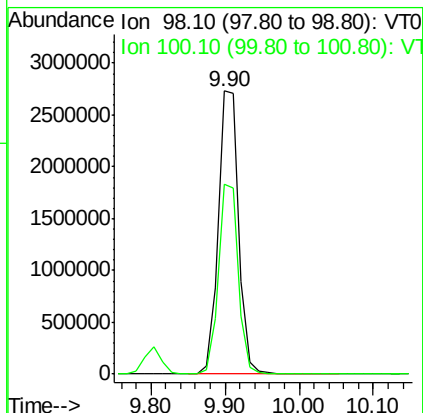
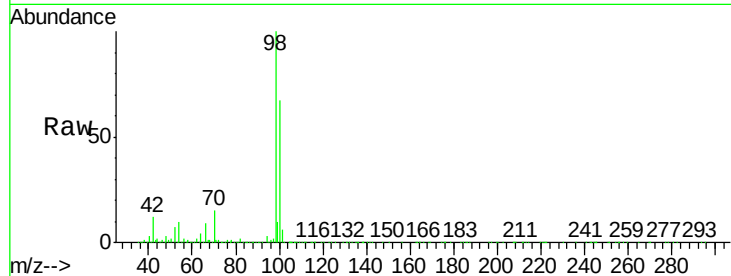
VSTDIC100

Tot Ion: 98 Resp: 5287631

Ion Ratio Lower Upper

98 100

100 67.0 50.0 75.0



#50

4-Methyl-2-Pentanone

Concen: 396.94 ug/l

RT: 9.80 min Scan# 704

Delta R.T. 0.00 min

Lab File: VT019045.D

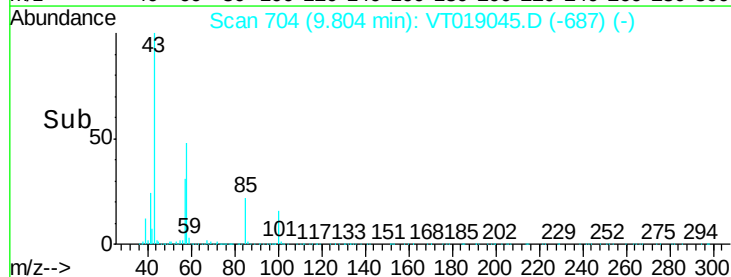
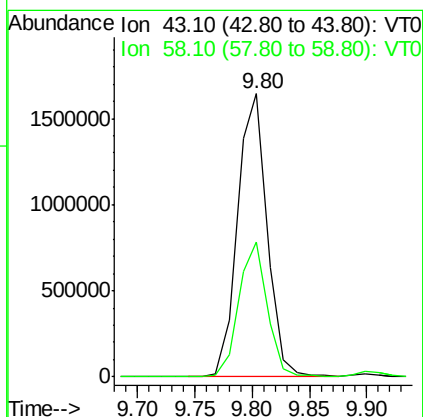
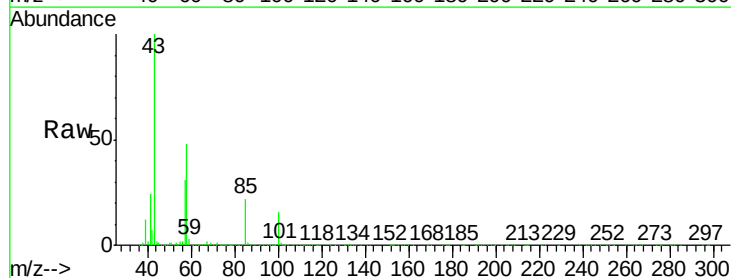
Acq: 8 May 2018 19:50

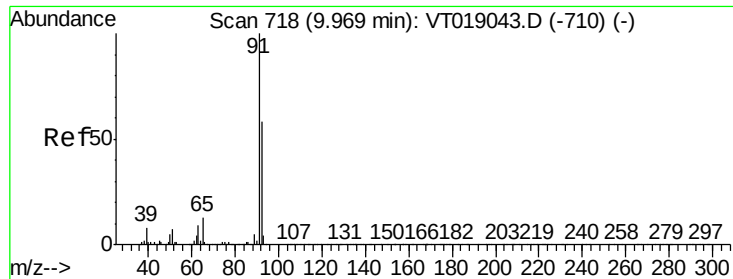
Tgt Ion: 43 Resp: 2949001

Ion Ratio Lower Upper

43 100

58 47.8 36.6 54.8





#51

Toluene

Concen: 107.73 ug/l

RT: 9.97 min Scan# 718

Delta R.T. 0.00 min

Lab File: VT019045.D

Acq: 8 May 2018 19:50

Instrument :

MSVOA\_T

ClientSampleId :

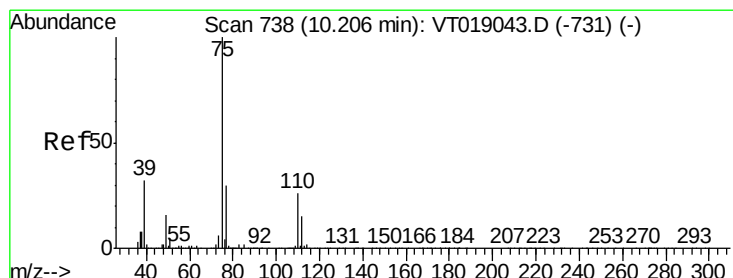
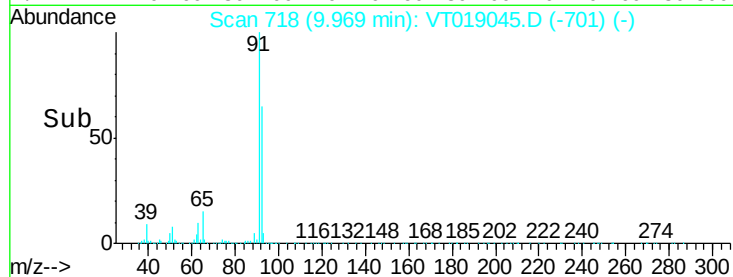
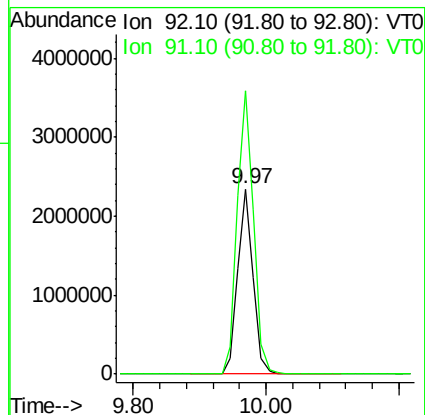
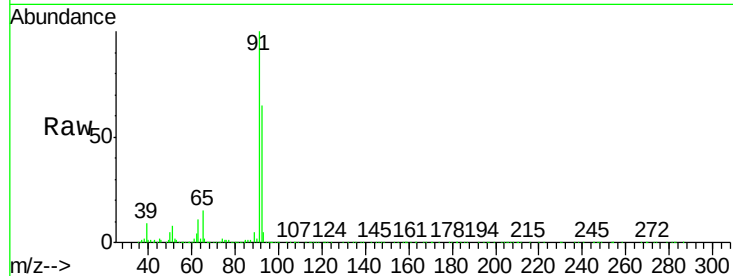
VSTDIC100

Tot Ion: 92 Resp: 3815961

Ion Ratio Lower Upper

92 100

91 153.0 137.8 206.6



#52

t-1,3-Dichloropropene

Concen: 118.16 ug/l

RT: 10.19 min Scan# 737

Delta R.T. -0.01 min

Lab File: VT019045.D

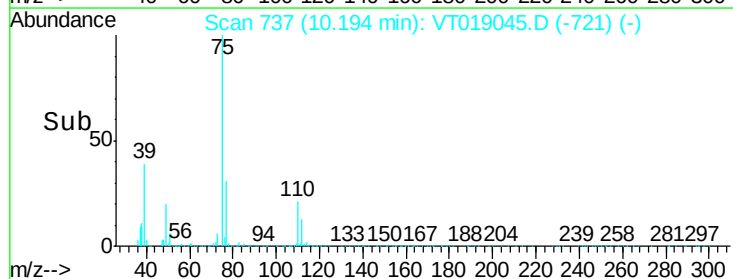
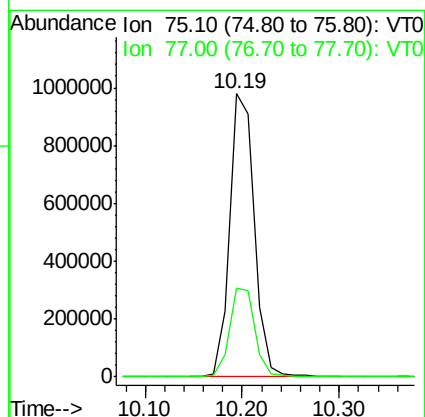
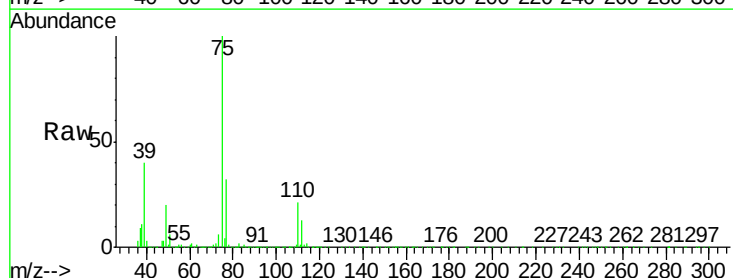
Acq: 8 May 2018 19:50

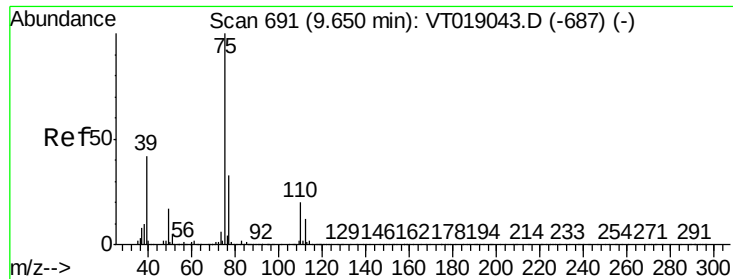
Tgt Ion: 75 Resp: 1721091

Ion Ratio Lower Upper

75 100

77 31.5 24.6 36.8





#53

cis-1,3-Dichloropropene

Concen: 118.27 ug/l

RT: 9.65 min Scan# 691

Delta R.T. 0.00 min

Lab File: VT019045.D

Acq: 8 May 2018 19:50

Instrument :

MSVOA\_T

ClientSampleId :

VSTDIC100

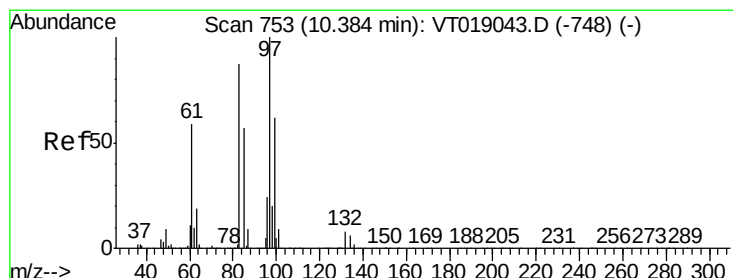
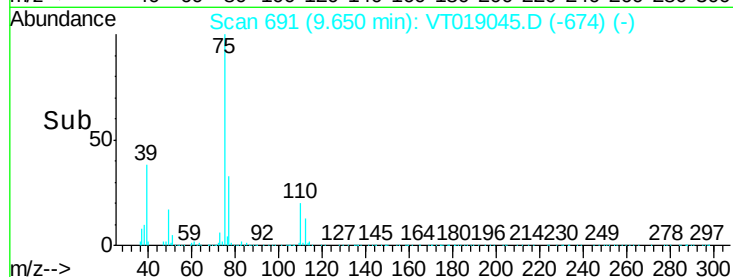
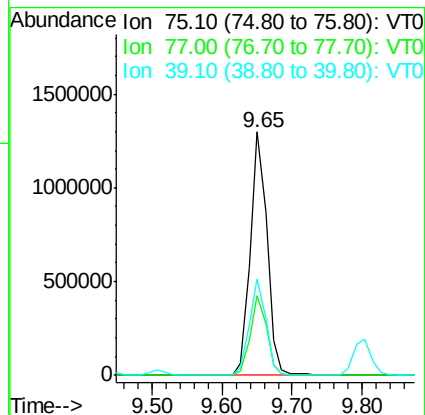
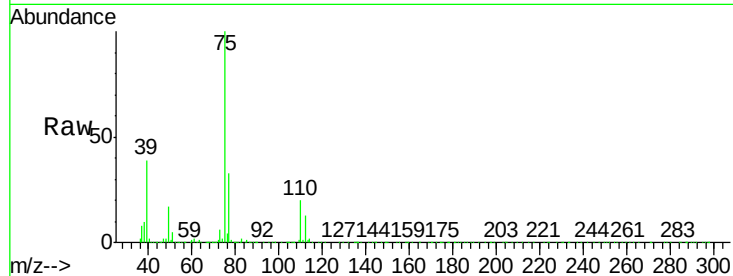
Tot Ion: 75 Resp: 2174342

Ion Ratio Lower Upper

75 100

77 32.8 26.6 39.8

39 39.4 34.1 51.1



#54

1,1,2-Trichloroethane

Concen: 103.72 ug/l

RT: 10.38 min Scan# 753

Delta R.T. 0.00 min

Lab File: VT019045.D

Acq: 8 May 2018 19:50

Tgt Ion: 97 Resp: 899777

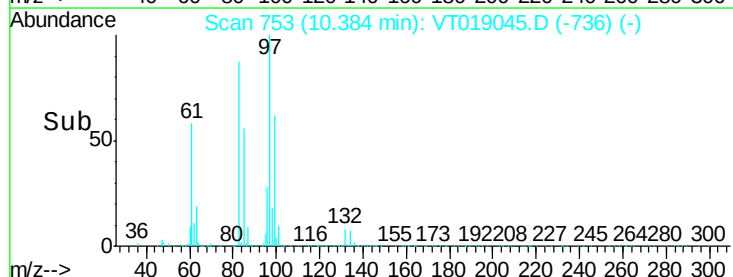
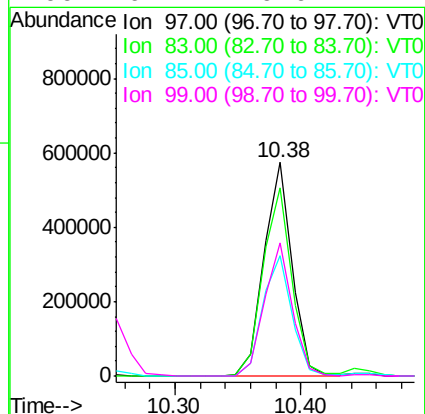
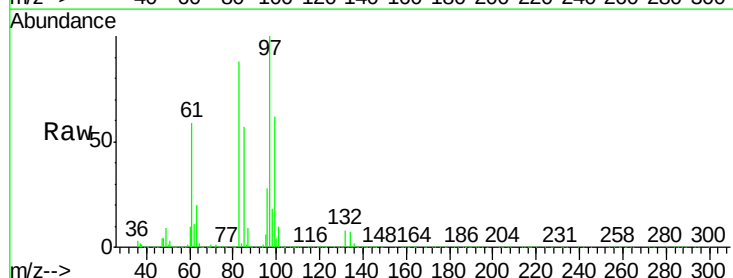
Ion Ratio Lower Upper

97 100

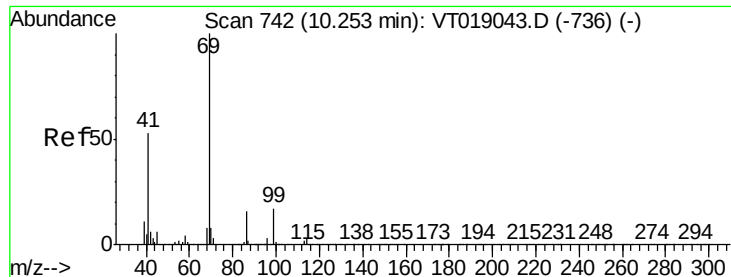
83 88.0 69.7 104.5

85 56.6 46.1 69.1

99 62.1 49.6 74.4







#55

Ethyl methacrylate

Concen: 113.38 ug/l

RT: 10.25 min Scan# 742

Delta R.T. 0.00 min

Lab File: VT019045.D

Acq: 8 May 2018 19:50

Instrument :

MSVOA\_T

ClientSampleId :

VSTDIC100

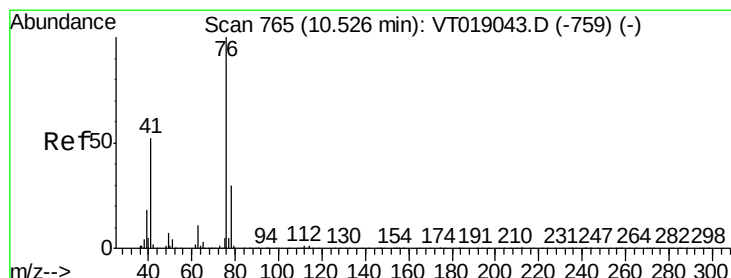
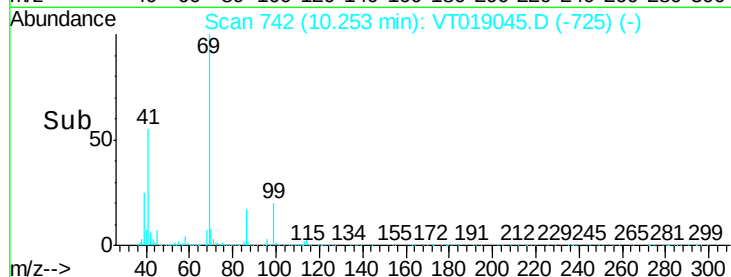
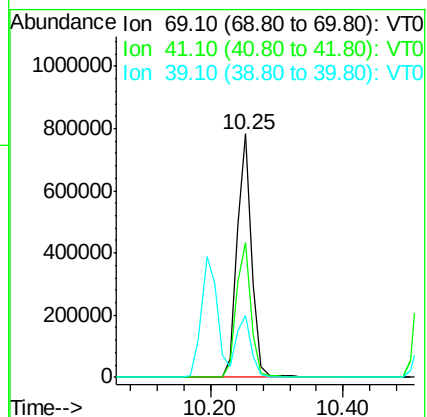
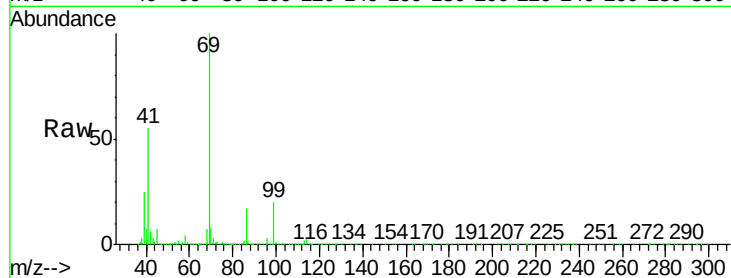
Tot Ion: 69 Resp: 1199705

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 69  | 100   |       |       |
| 41  | 55.1  | 42.9  | 64.3  |
| 39  | 25.2  | 21.2  | 31.8  |

69 100

41 55.1 42.9 64.3

39 25.2 21.2 31.8



#56

1,3-Dichloropropane

Concen: 109.29 ug/l

RT: 10.53 min Scan# 765

Delta R.T. 0.00 min

Lab File: VT019045.D

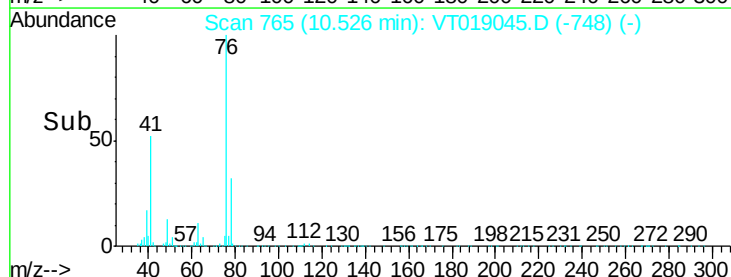
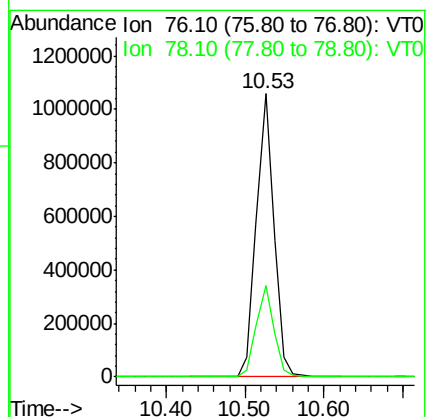
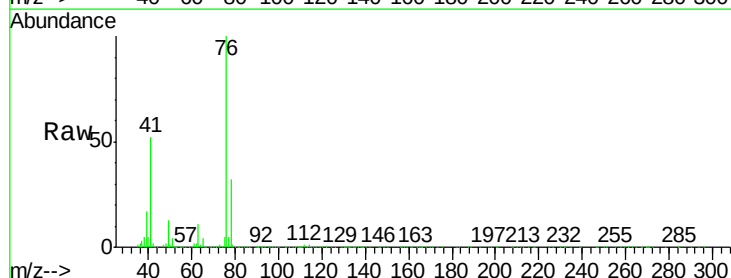
Acq: 8 May 2018 19:50

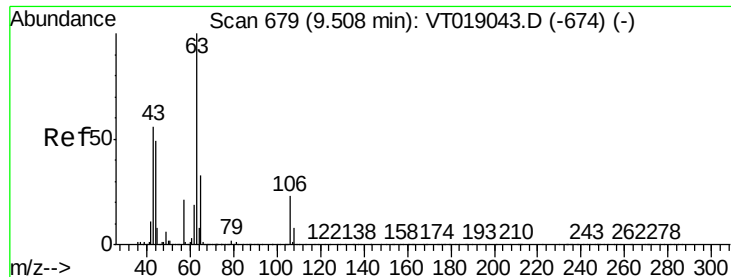
Tgt Ion: 76 Resp: 1645634

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 76  | 100   |       |       |
| 78  | 32.5  | 24.1  | 36.1  |

76 100

78 32.5 24.1 36.1





#57

2-Chloroethyl Vinyl ether

Concen: 596.60 ug/l

RT: 9.51 min Scan# 679

Delta R.T. 0.00 min

Lab File: VT019045.D

Acq: 8 May 2018 19:50

Instrument :

MSVOA\_T

ClientSampleId :

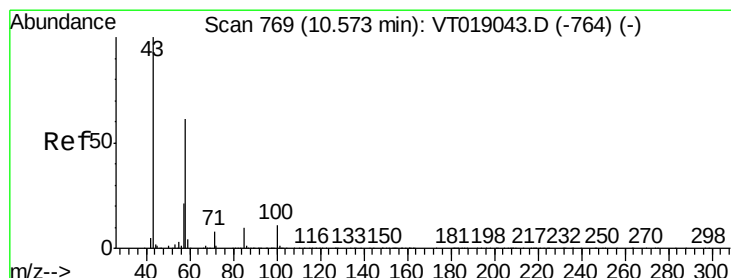
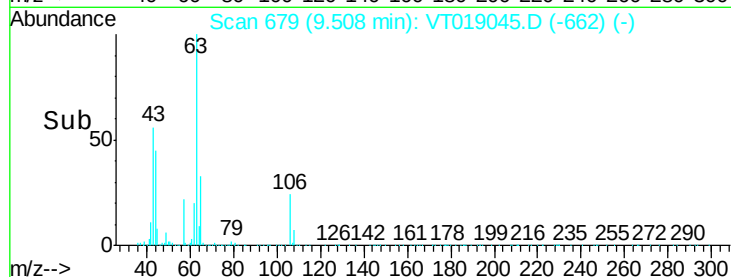
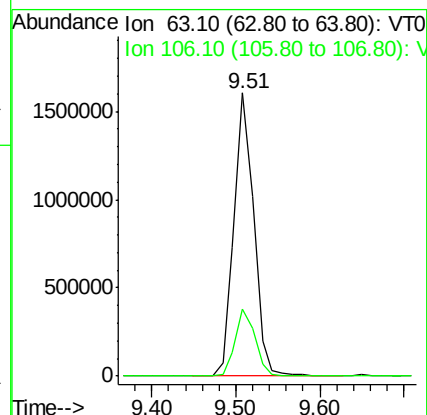
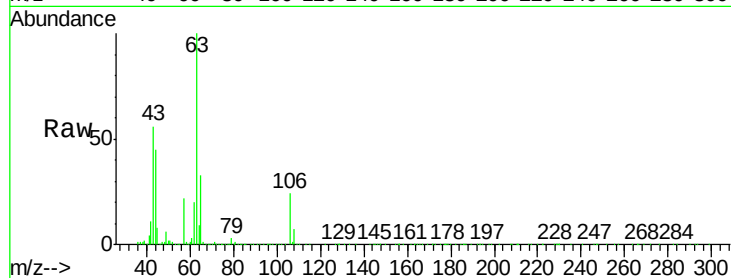
VSTDIC100

Tot Ion: 63 Resp: 2629699

Ion Ratio Lower Upper

63 100

106 23.5 18.7 28.1



#58

2-Hexanone

Concen: 385.25 ug/l

RT: 10.57 min Scan# 769

Delta R.T. 0.00 min

Lab File: VT019045.D

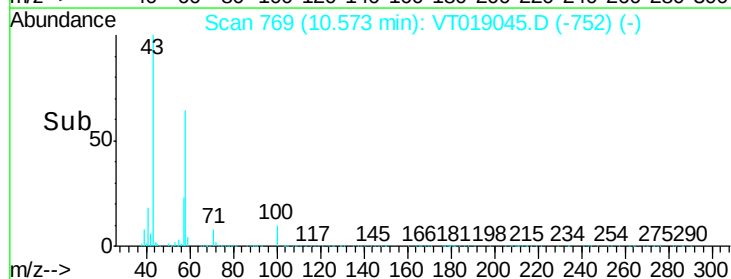
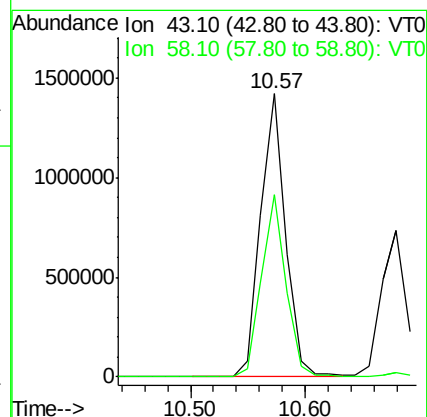
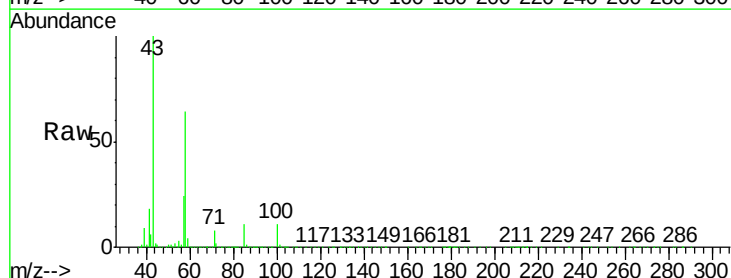
Acq: 8 May 2018 19:50

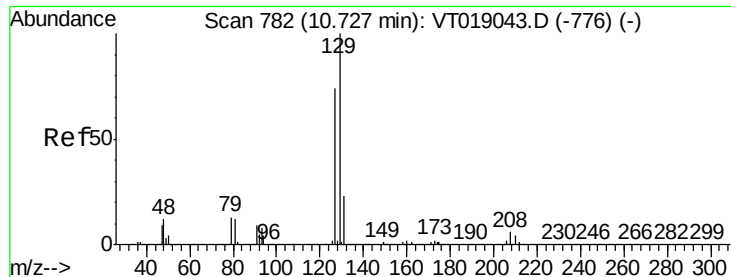
Tgt Ion: 43 Resp: 2161448

Ion Ratio Lower Upper

43 100

58 64.3 30.6 92.0





#59

Dibromochloromethane

Concen: 98.02 ug/l

RT: 10.73 min Scan# 782

Delta R.T. 0.00 min

Lab File: VT019045.D

Acq: 8 May 2018 19:50

Instrument :

MSVOA\_T

ClientSampleId :

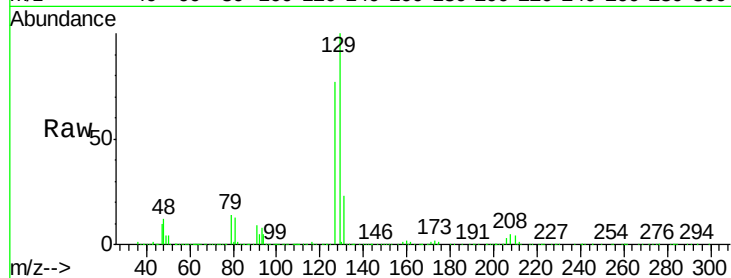
VSTDIC100

Tot Ion:129 Resp: 980974

Ion Ratio Lower Upper

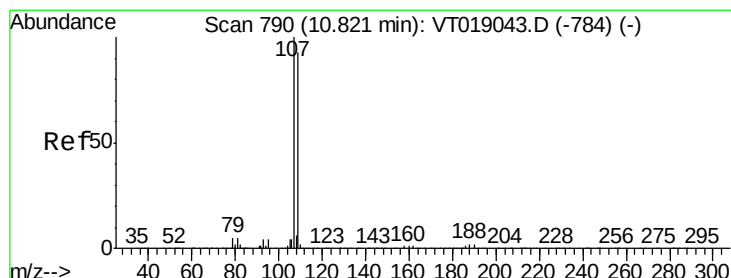
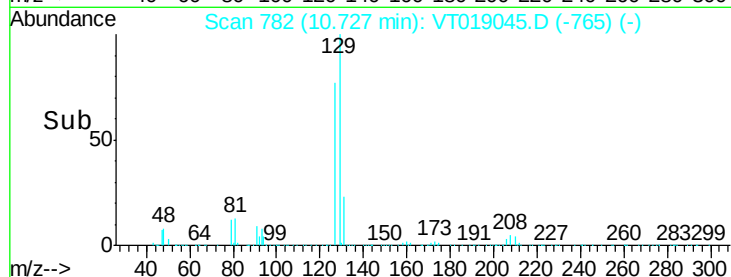
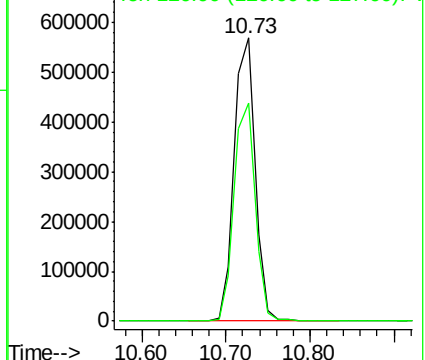
129 100

127 77.1 37.3 111.8



Abundance Ion 128.90 (128.60 to 129.60): V

Ion 126.90 (126.60 to 127.60): V



#60

1,2-Dibromoethane

Concen: 102.83 ug/l

RT: 10.82 min Scan# 790

Delta R.T. 0.00 min

Lab File: VT019045.D

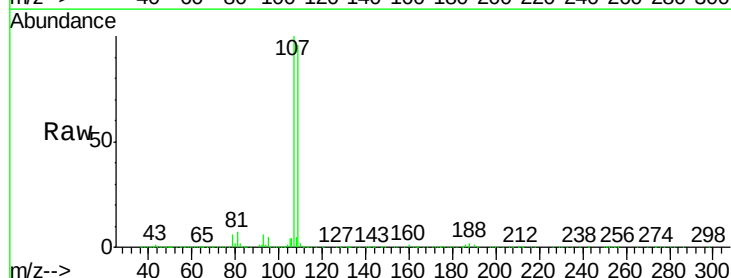
Acq: 8 May 2018 19:50

Tgt Ion:107 Resp: 822615

Ion Ratio Lower Upper

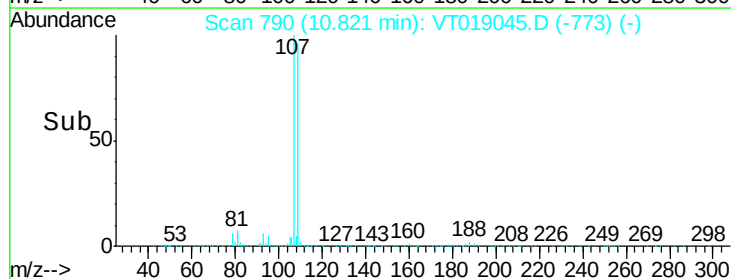
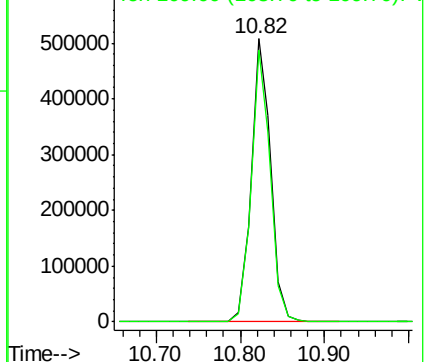
107 100

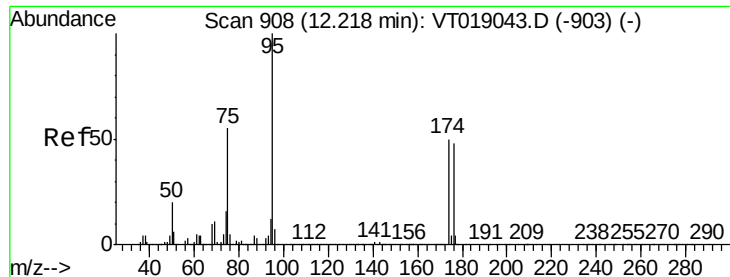
109 96.0 74.3 111.5



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





#61

4-Bromofluorobenzene

Concen: 120.05 ug/l

RT: 12.22 min Scan# 908

Delta R.T. 0.00 min

Lab File: VT019045.D

Acq: 8 May 2018 19:50

Instrument :

MSVOA\_T

ClientSampleId :

VSTDIC100

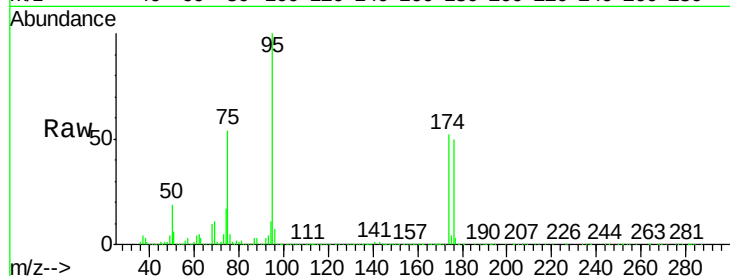
Tot Ion: 95 Resp: 2069488

Ion Ratio Lower Upper

95 100

174 51.7 0.0 100.0

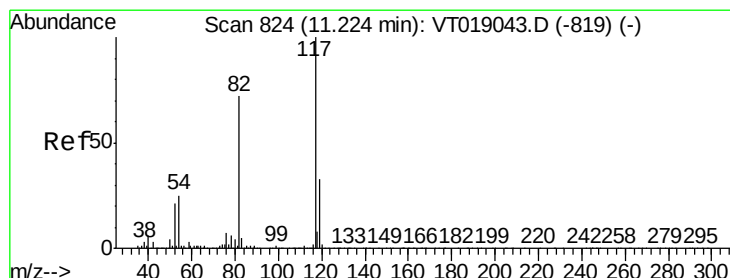
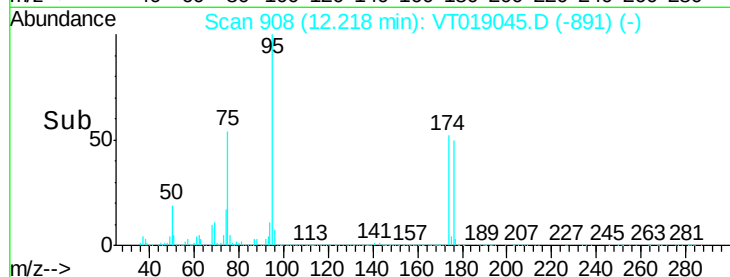
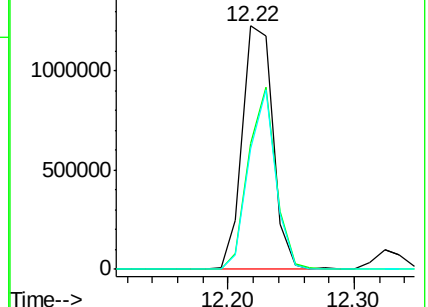
176 49.6 0.0 96.6



Abundance Ion 95.10 (94.80 to 95.80): VT0

Ion 174.00 (173.70 to 174.70): VT0

Ion 176.00 (175.70 to 176.70): VT0



#62

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.22 min Scan# 824

Delta R.T. 0.00 min

Lab File: VT019045.D

Acq: 8 May 2018 19:50

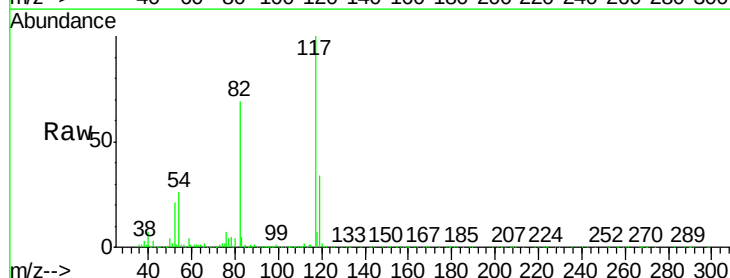
Tgt Ion: 117 Resp: 1796796

Ion Ratio Lower Upper

117 100

82 69.4 57.6 86.4

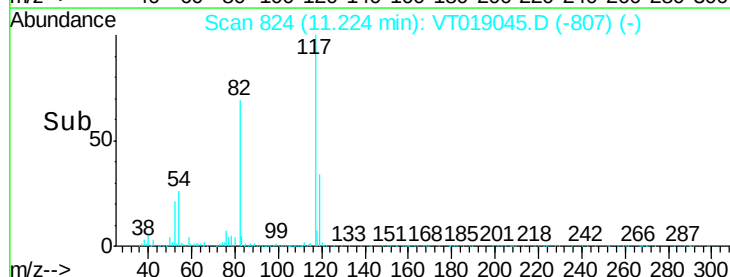
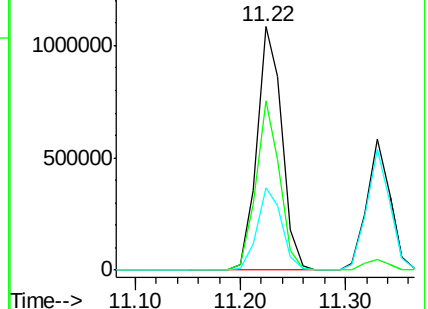
119 33.6 26.6 40.0

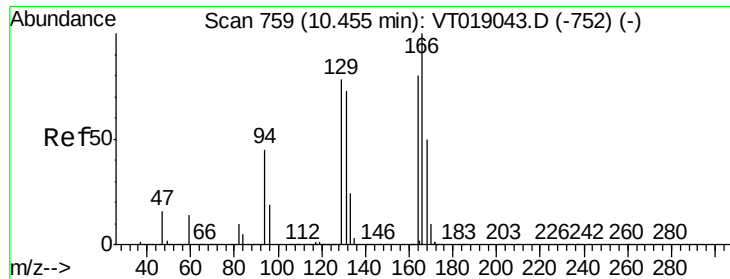


Abundance Ion 117.10 (116.80 to 117.80): VT0

Ion 82.10 (81.80 to 82.80): VT0

Ion 119.10 (118.80 to 119.80): VT0

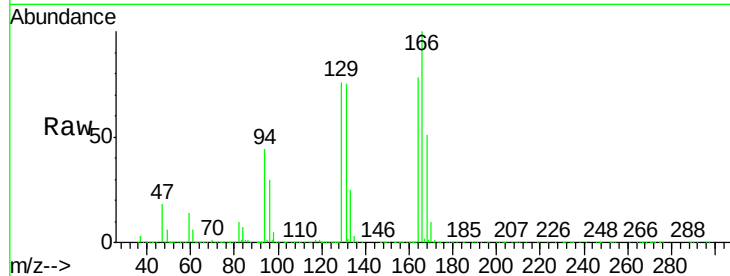




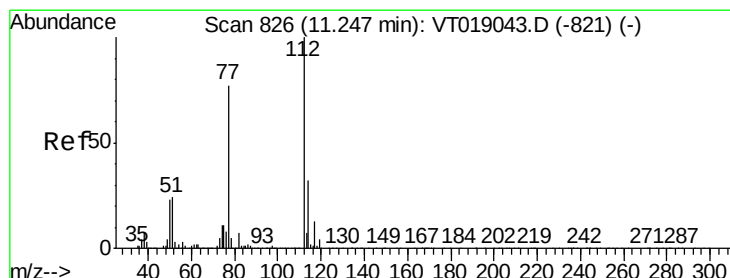
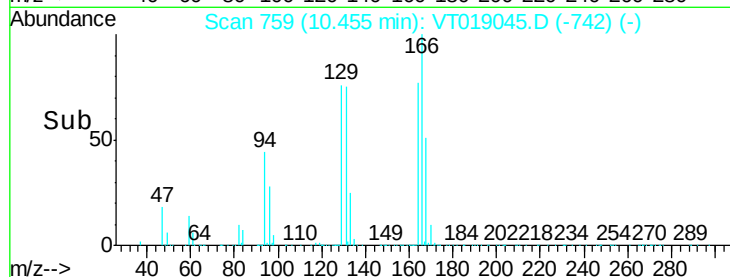
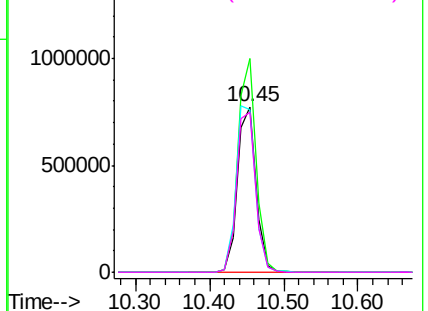
#63  
Tetrachloroethene  
Concen: 103.73 ug/l  
RT: 10.45 min Scan# 759  
Delta R.T. 0.00 min  
Lab File: VT019045.D  
Acq: 8 May 2018 19:50

Instrument :  
MSVOA\_T  
ClientSampleId :  
VSTDIC100

Tot Ion:164 Resp: 1359319  
Ion Ratio Lower Upper  
164 100  
166 129.0 100.6 151.0  
129 98.5 78.1 117.1  
131 96.3 73.2 109.8

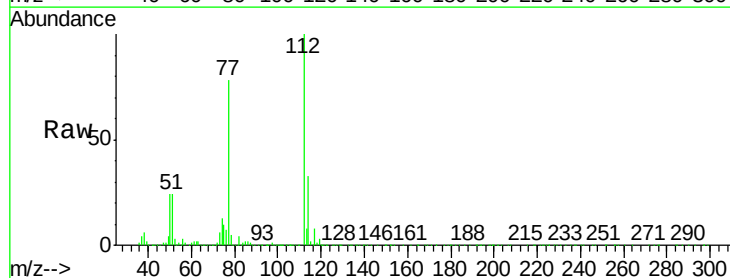


Abundance Ion 163.90 (163.60 to 164.60): V  
Ion 165.90 (165.60 to 166.60): V  
Ion 128.90 (128.60 to 129.60): V  
Ion 130.90 (130.60 to 131.60): V

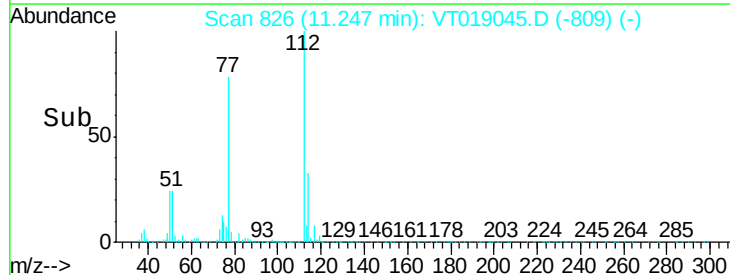
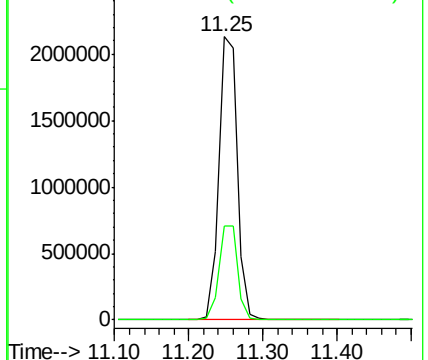


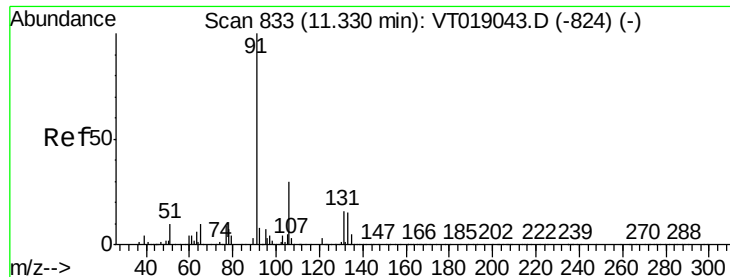
#64  
Chlorobenzene  
Concen: 96.97 ug/l  
RT: 11.25 min Scan# 826  
Delta R.T. 0.00 min  
Lab File: VT019045.D  
Acq: 8 May 2018 19:50

Tgt Ion:112 Resp: 3752750  
Ion Ratio Lower Upper  
112 100  
114 33.3 25.5 38.3



Abundance Ion 112.00 (111.70 to 112.70): V  
Ion 114.00 (113.70 to 114.70): V





#65

1,1,1,2-Tetrachloroethane

Concen: 108.45 ug/l

RT: 11.33 min Scan# 833

Delta R.T. 0.00 min

Lab File: VT019045.D

Acq: 8 May 2018 19:50

Instrument :

MSVOA\_T

ClientSampleId :

VSTDIC100

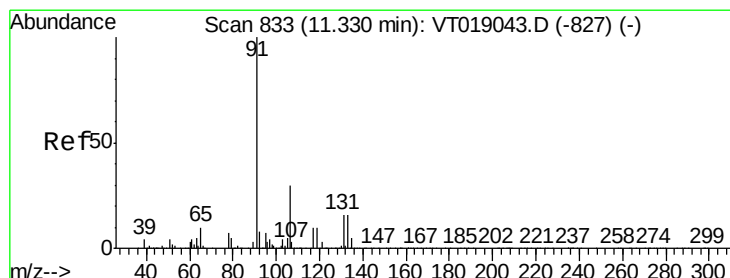
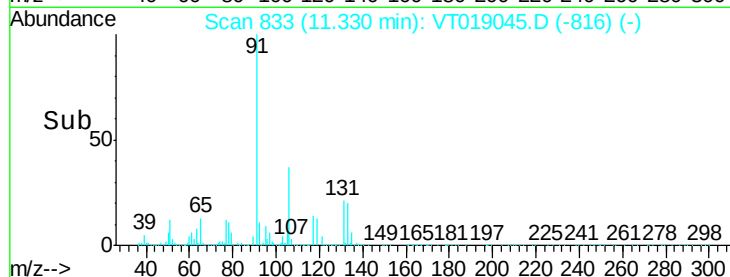
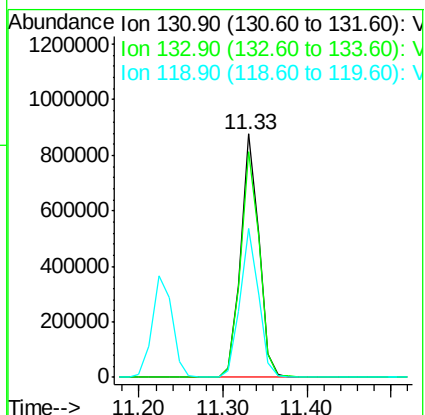
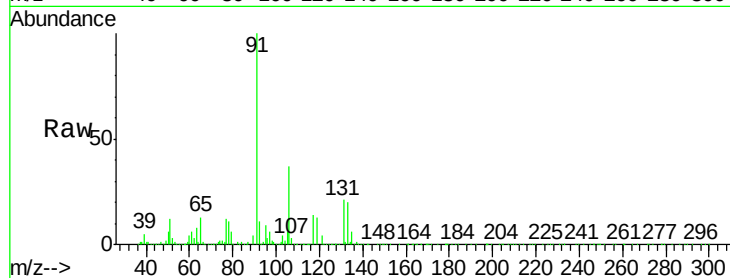
Tot Ion:131 Resp: 1319633

Ion Ratio Lower Upper

131 100

133 92.9 47.8 143.3

119 61.0 31.8 95.4



#66

Ethyl Benzene

Concen: 103.53 ug/l

RT: 11.33 min Scan# 833

Delta R.T. 0.00 min

Lab File: VT019045.D

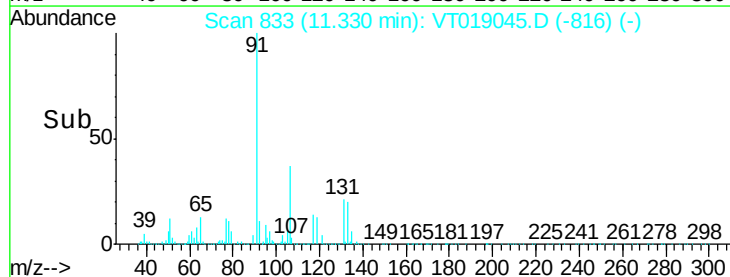
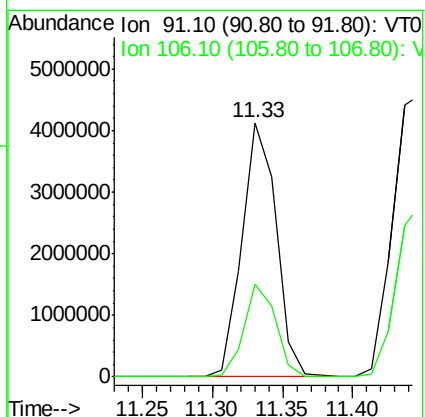
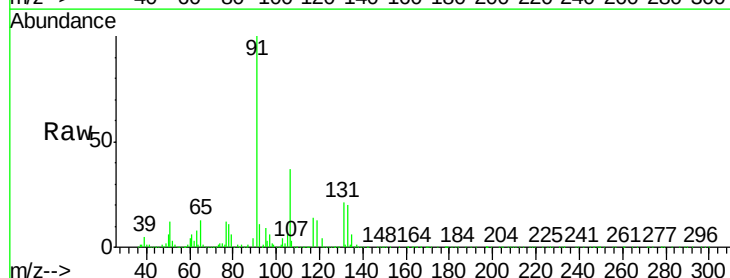
Acq: 8 May 2018 19:50

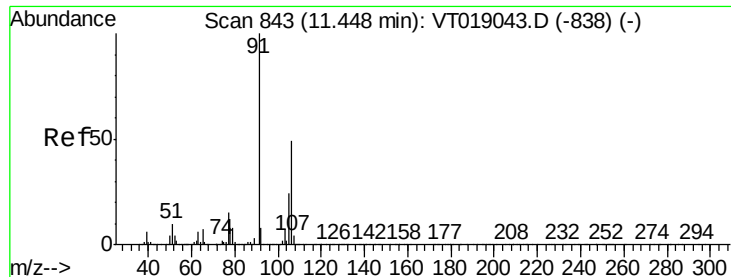
Tgt Ion: 91 Resp: 6990737

Ion Ratio Lower Upper

91 100

106 36.6 24.0 36.0#

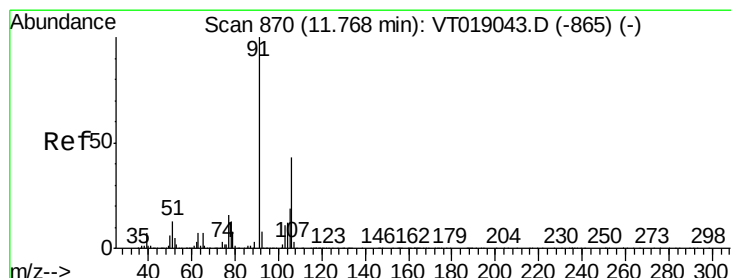
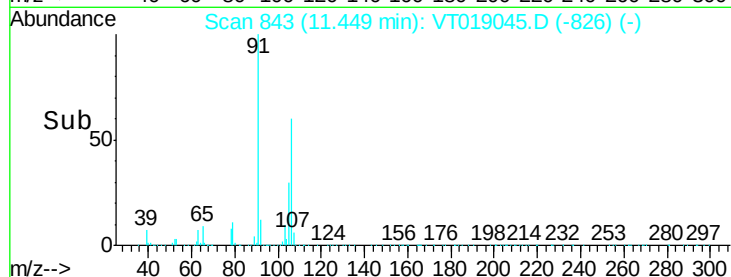
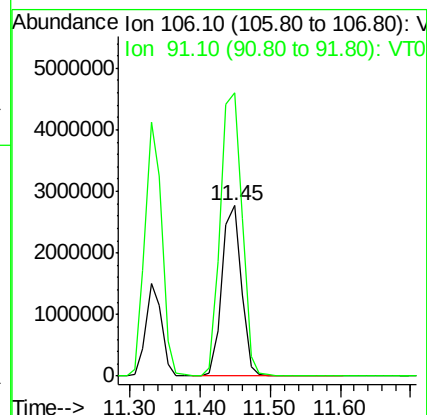
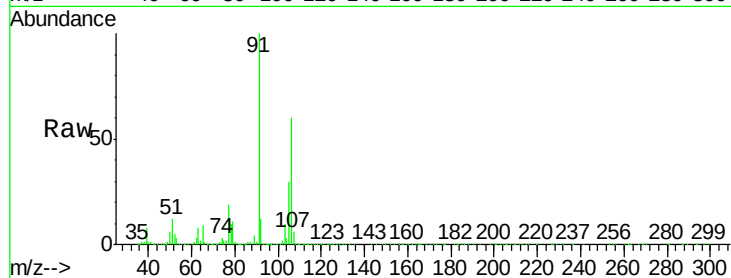




#67  
m/p-Xylenes  
Concen: 198.96 ug/l  
RT: 11.45 min Scan# 843  
Delta R.T. 0.00 min  
Lab File: VT019045.D  
Acq: 8 May 2018 19:50

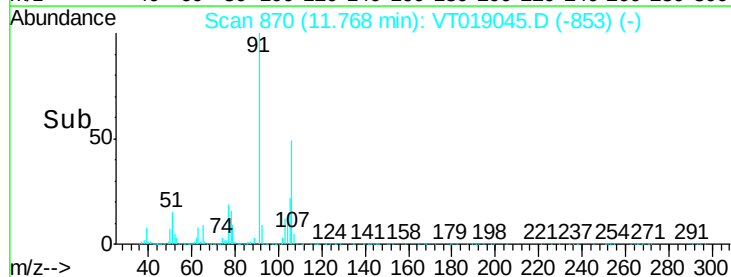
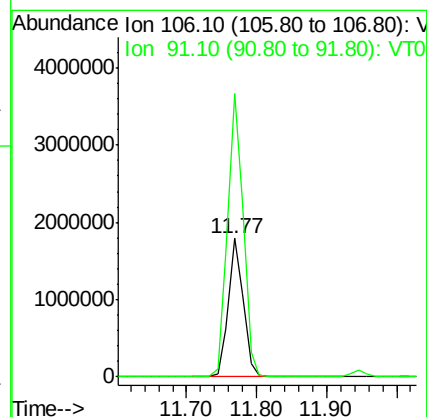
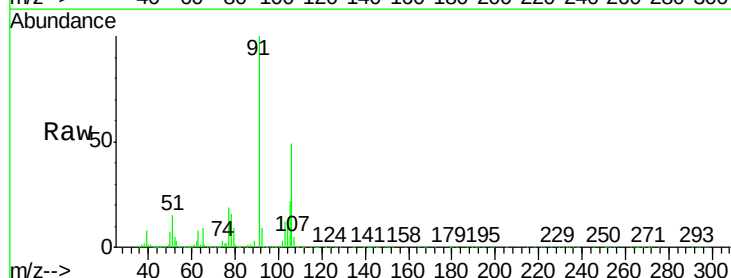
Instrument :  
MSVOA\_T  
ClientSampleId :  
VSTDICC100

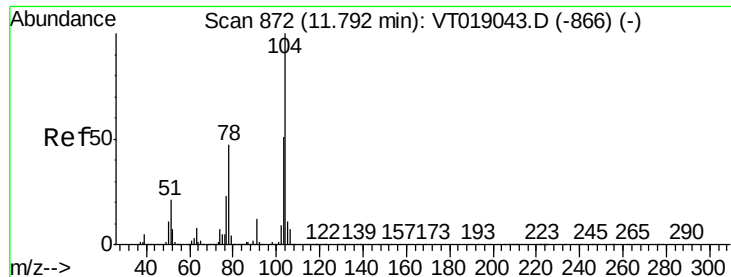
Tot Ion:106 Resp: 5366448  
Ion Ratio Lower Upper  
106 100  
91 166.3 162.2 243.4



#68  
o-Xylene  
Concen: 107.61 ug/l  
RT: 11.77 min Scan# 870  
Delta R.T. 0.00 min  
Lab File: VT019045.D  
Acq: 8 May 2018 19:50

Tgt Ion:106 Resp: 2644947  
Ion Ratio Lower Upper  
106 100  
91 204.8 116.0 348.0

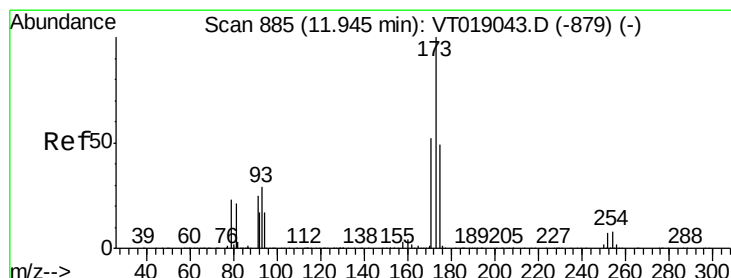
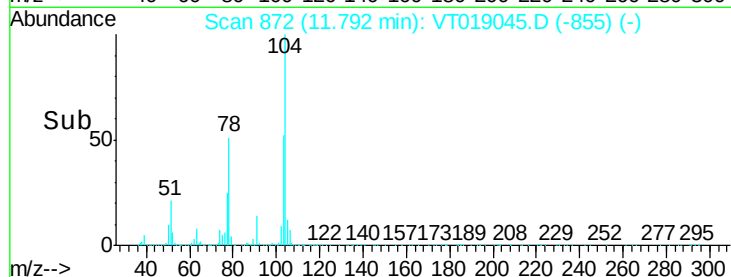
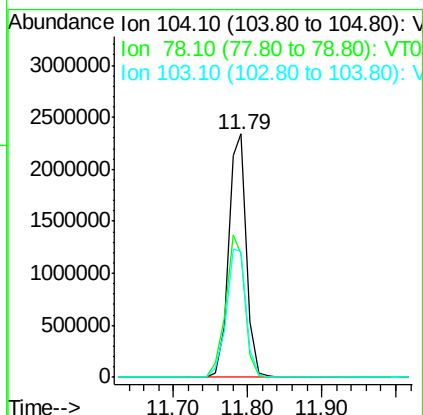
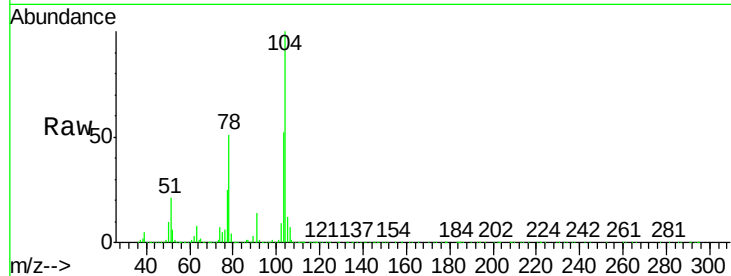




#69  
Stvrene  
Concen: 97.44 ug/l  
RT: 11.79 min Scan# 872  
Delta R.T. 0.00 min  
Lab File: VT019045.D  
Acq: 8 May 2018 19:50

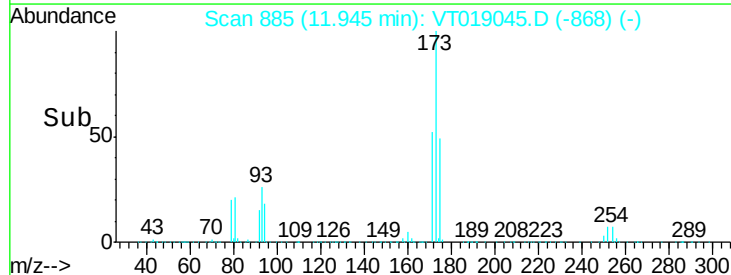
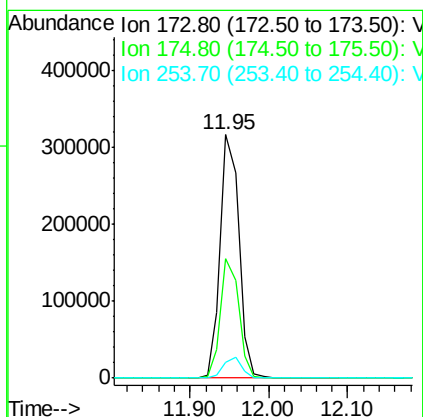
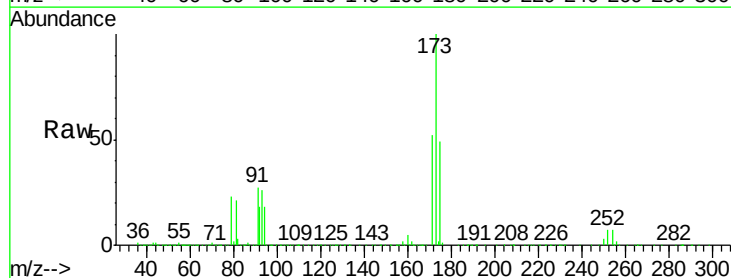
Instrument :  
MSVOA\_T  
ClientSampleId :  
VSTDICC100

Tot Ion:104 Resp: 3987181  
Ion Ratio Lower Upper  
104 100  
78 50.8 38.0 57.0  
103 51.9 40.6 61.0

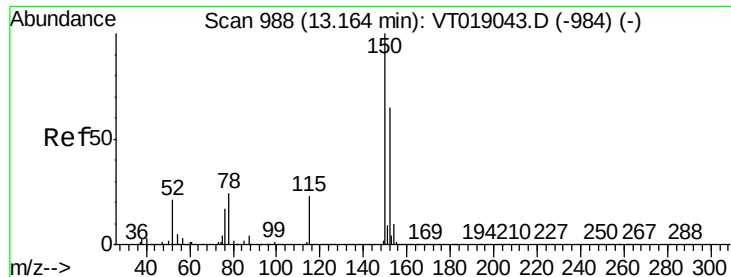


#70  
Bromoform  
Concen: 84.83 ug/l  
RT: 11.95 min Scan# 885  
Delta R.T. 0.00 min  
Lab File: VT019045.D  
Acq: 8 May 2018 19:50

Tgt Ion:173 Resp: 524992  
Ion Ratio Lower Upper  
173 100  
175 49.2 24.6 73.8  
254 6.5 6.1 9.1



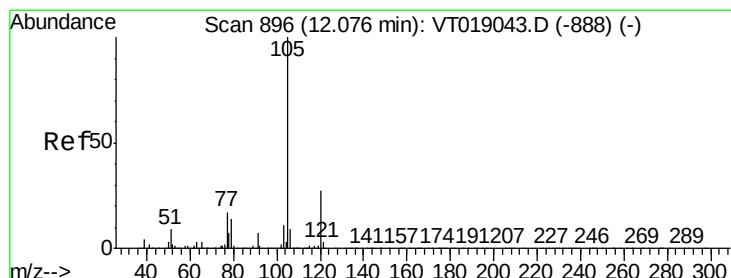
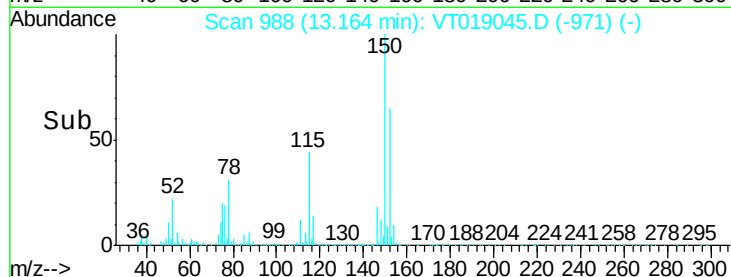
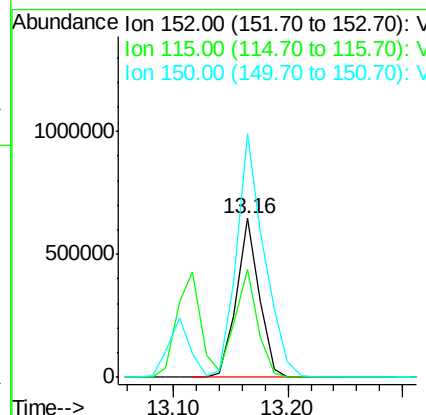
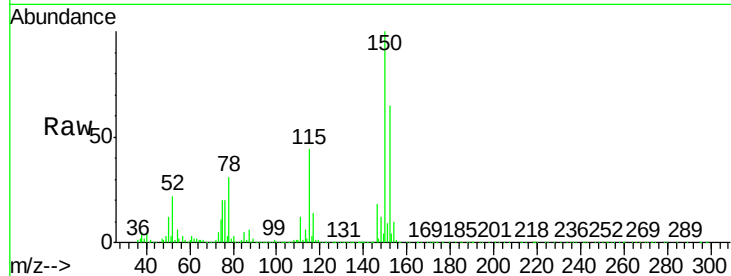




#71  
 1,4-Dichlorobenzene-d4  
 Concen: 50.00 ug/l  
 RT: 13.16 min Scan# 988  
 Delta R.T. 0.00 min  
 Lab File: VT019045.D  
 Acq: 8 May 2018 19:50

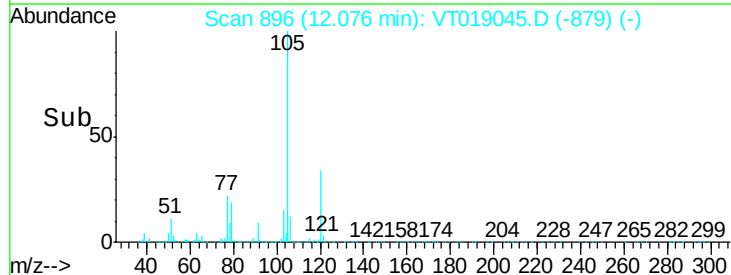
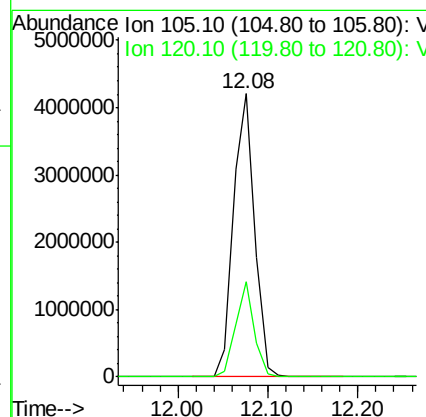
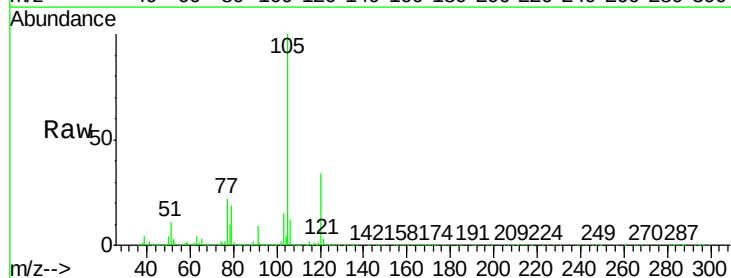
Instrument :  
 MSVOA\_T  
 ClientSampleId :  
 VSTDIC100

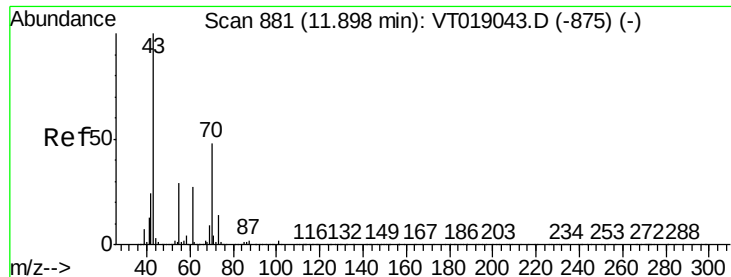
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 67.6  | 34.2  | 102.6 |
| 150     | 153.1 | 0.0   | 321.2 |



#72  
 Isopropylbenzene  
 Concen: 104.01 ug/l  
 RT: 12.08 min Scan# 896  
 Delta R.T. 0.00 min  
 Lab File: VT019045.D  
 Acq: 8 May 2018 19:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 33.6  | 13.6  | 40.8  |

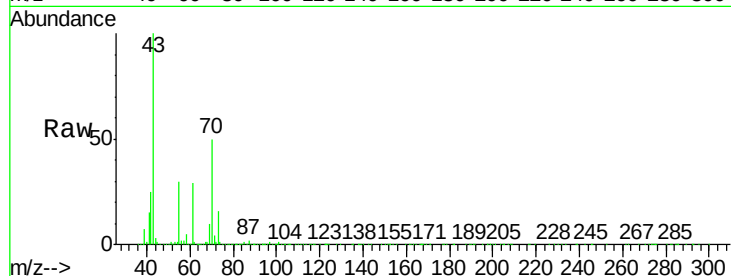




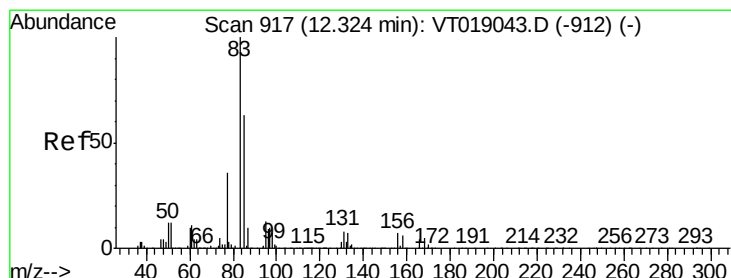
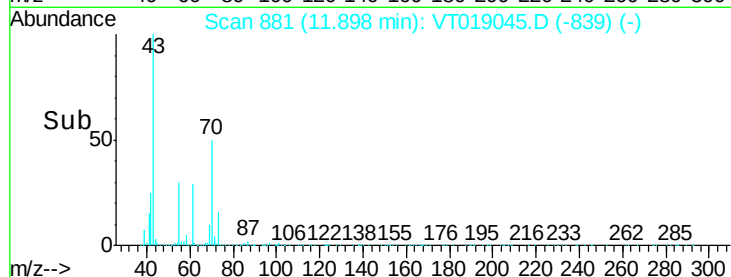
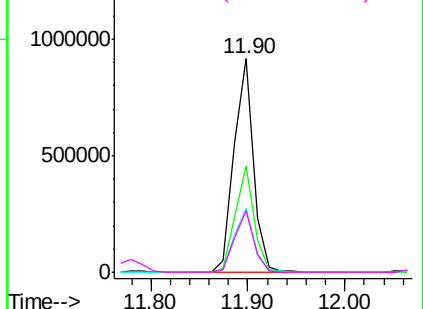
#73  
N-amvl acetate  
Concen: 100.80 ug/l  
RT: 11.90 min Scan# 881  
Delta R.T. 0.00 min  
Lab File: VT019045.D  
Acq: 8 May 2018 19:50

Instrument :  
MSVOA\_T  
ClientSampleId :  
VSTDIC100

Tot Ion: 43 Resp: 1269901  
Ion Ratio Lower Upper  
43 100  
70 49.8 38.2 57.4  
55 29.7 23.5 35.3  
61 28.6 21.7 32.5

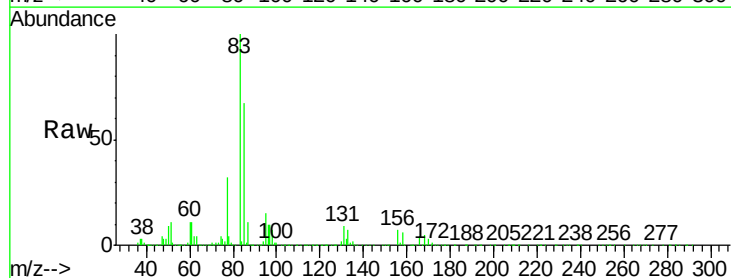


Abundance Ion 43.10 (42.80 to 43.80): VT0  
Ion 70.10 (69.80 to 70.80): VT0  
Ion 55.10 (54.80 to 55.80): VT0  
Ion 61.10 (60.80 to 61.80): VT0

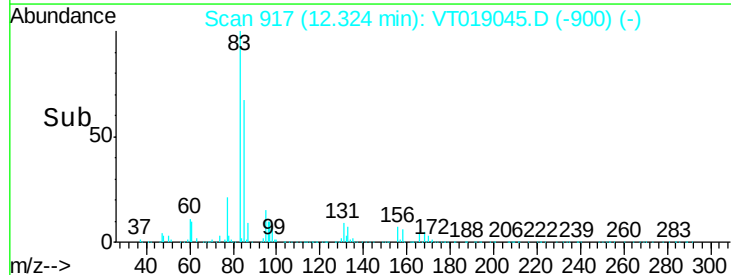
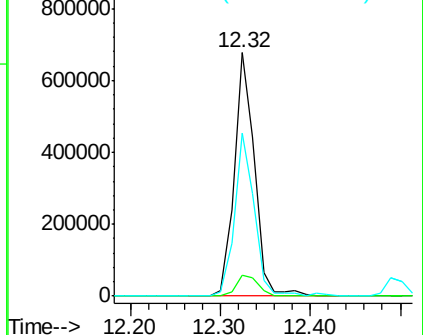


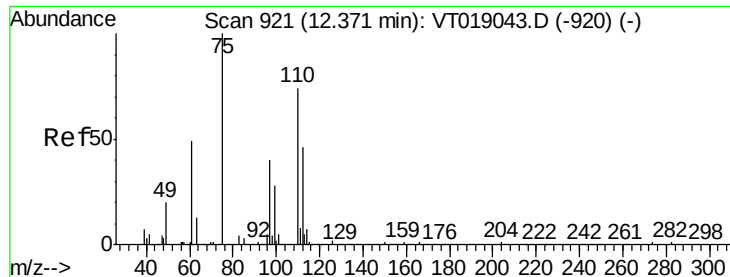
#74  
1,1,2,2-Tetrachloroethane  
Concen: 104.79 ug/l  
RT: 12.32 min Scan# 917  
Delta R.T. 0.00 min  
Lab File: VT019045.D  
Acq: 8 May 2018 19:50

Tgt Ion: 83 Resp: 1052737  
Ion Ratio Lower Upper  
83 100  
131 8.8 4.0 12.2  
85 66.8 31.4 94.3



Abundance Ion 83.00 (82.70 to 83.70): VT0  
Ion 131.00 (130.70 to 131.70): VT0  
Ion 85.00 (84.70 to 85.70): VT0





#75

1,2,3-Trichloropropane

Concen: 112.57 ug/l m

RT: 12.37 min Scan# 921

Delta R.T. 0.00 min

Lab File: VT019045.D

Acq: 8 May 2018 19:50

Instrument :

MSVOA\_T

ClientSampleId :

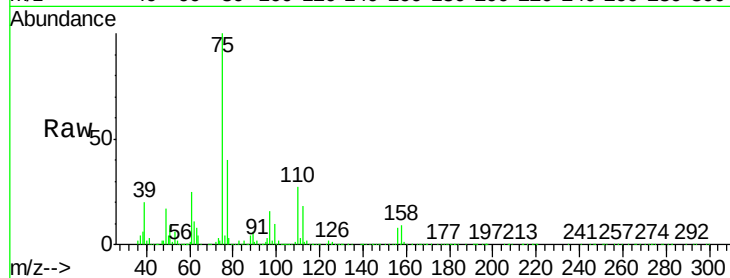
VSTDIC100

Tot Ion: 75 Resp: 793604

Ion Ratio Lower Upper

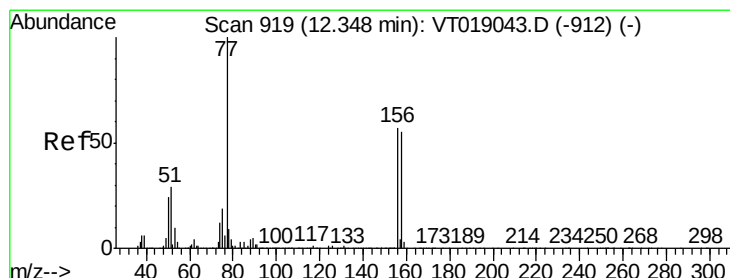
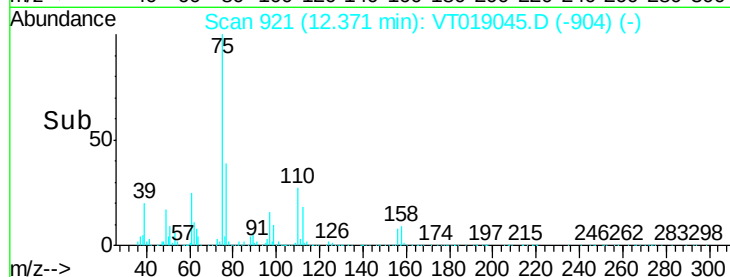
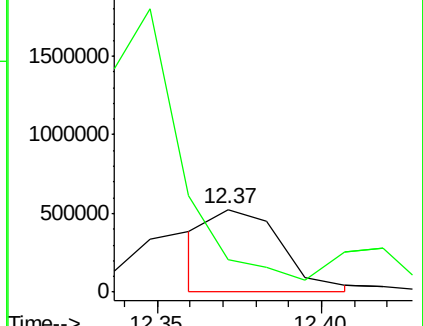
75 100

77 39.5 21.1 63.1



Abundance Ion 75.10 (74.80 to 75.80): VT0

Ion 77.10 (76.80 to 77.80): VT0



#76

Bromobenzene

Concen: 98.99 ug/l

RT: 12.35 min Scan# 919

Delta R.T. 0.00 min

Lab File: VT019045.D

Acq: 8 May 2018 19:50

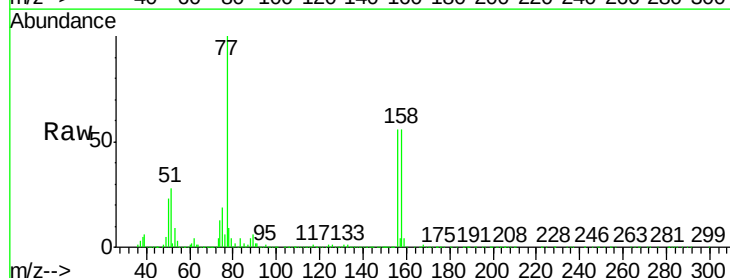
Tgt Ion: 156 Resp: 1448635

Ion Ratio Lower Upper

156 100

77 177.8 87.8 263.4

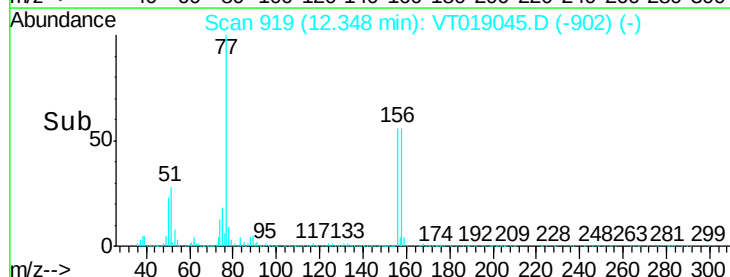
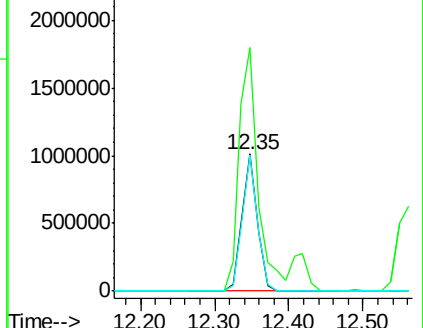
158 99.0 48.3 144.8

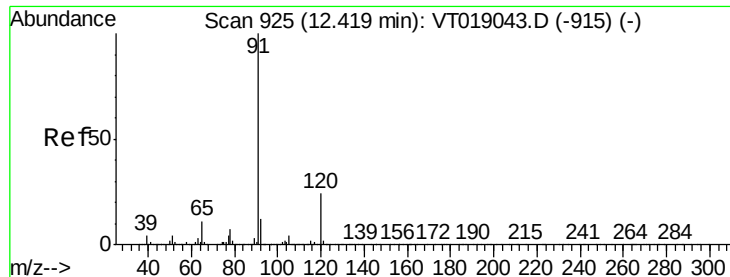


Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.10 (76.80 to 77.80): VT0

Ion 158.00 (157.70 to 158.70): V





#77

n-propylbenzene

Concen: 100.72 ug/l

RT: 12.42 min Scan# 925

Delta R.T. 0.00 min

Lab File: VT019045.D

Acq: 8 May 2018 19:50

Instrument :

MSVOA\_T

ClientSampleId :

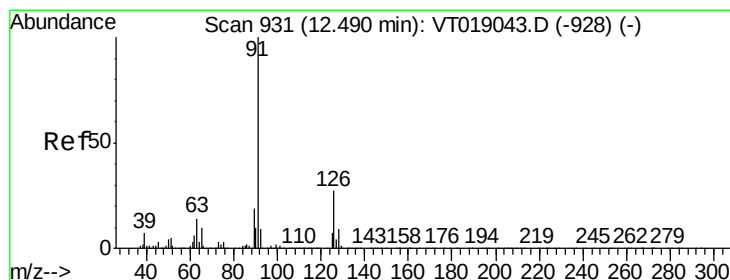
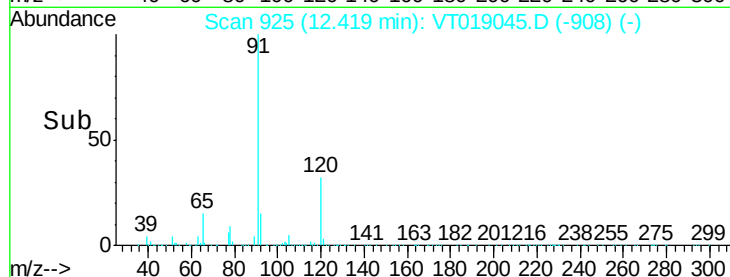
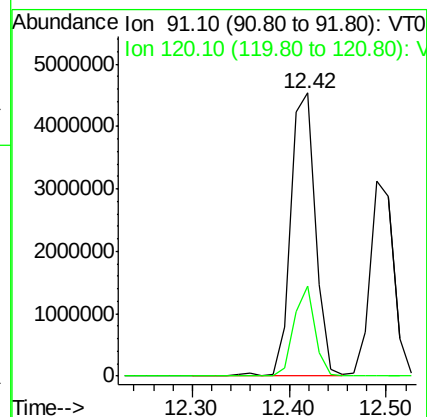
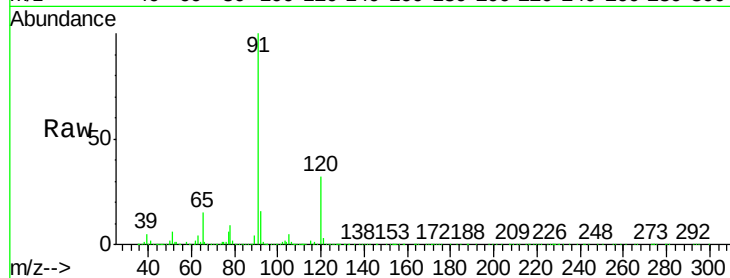
VSTDIC100

Tot Ion: 91 Resp: 8008069

Ion Ratio Lower Upper

91 100

120 31.9 12.0 36.1



#78

2-Chlorotoluene

Concen: 117.32 ug/l

RT: 12.49 min Scan# 931

Delta R.T. 0.00 min

Lab File: VT019045.D

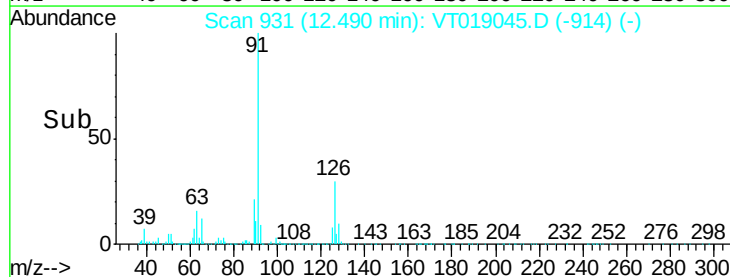
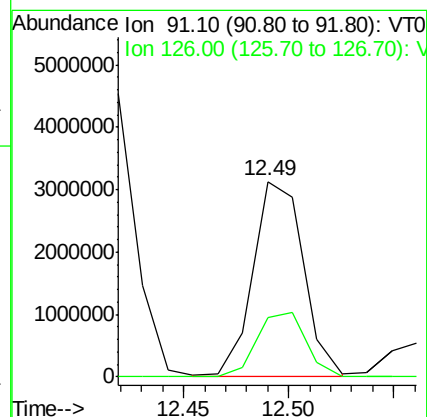
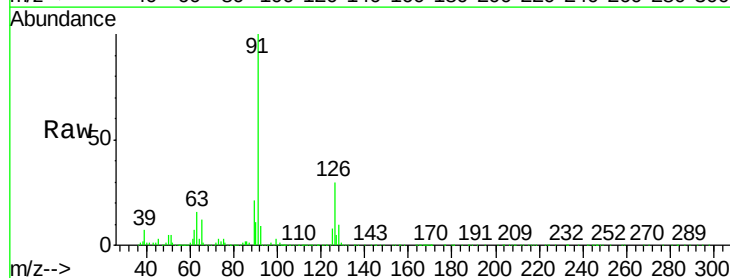
Acq: 8 May 2018 19:50

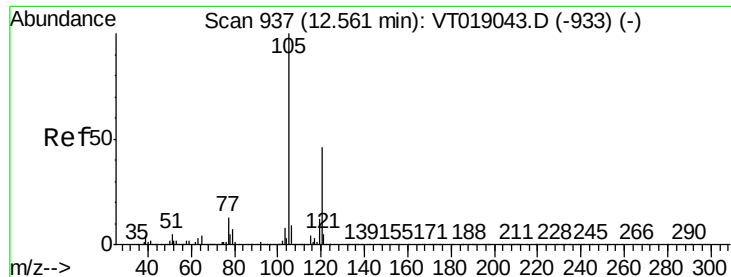
Tgt Ion: 91 Resp: 5237882

Ion Ratio Lower Upper

91 100

126 30.4 13.5 40.5

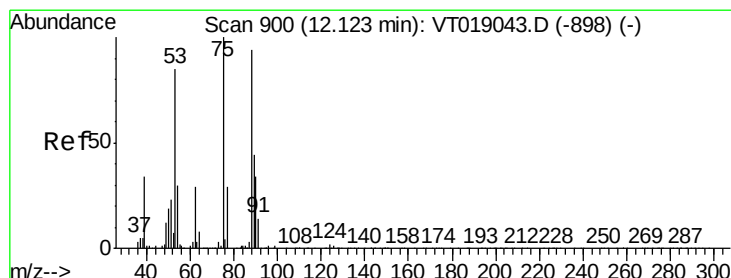
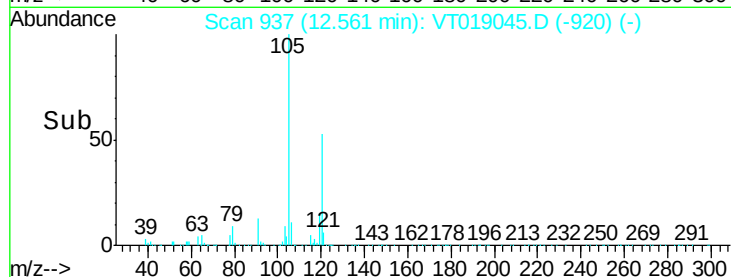
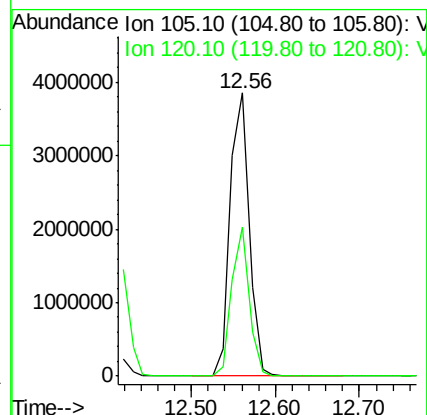
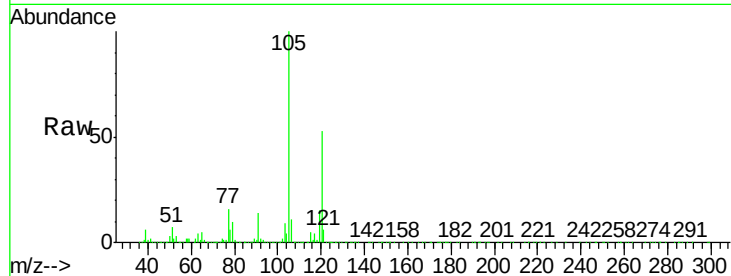




#79  
 1,3,5-Trimethylbenzene  
 Concen: 107.41 ug/l  
 RT: 12.56 min Scan# 937  
 Delta R.T. 0.00 min  
 Lab File: VT019045.D  
 Acq: 8 May 2018 19:50

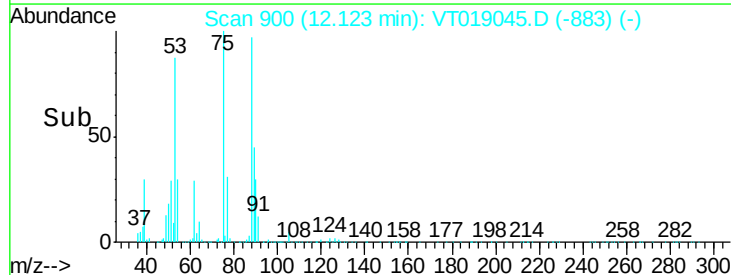
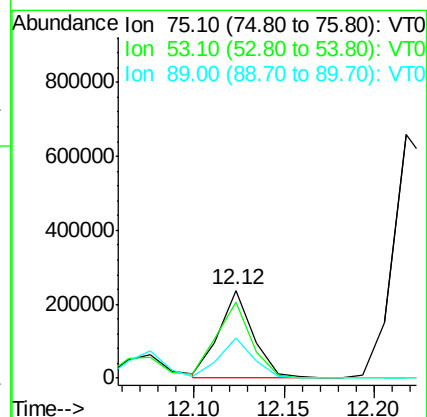
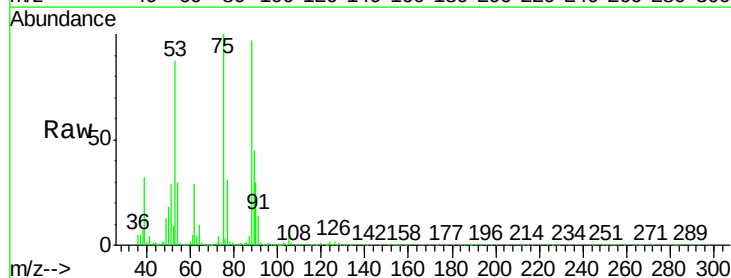
Instrument :  
 MSVOA\_T  
 ClientSampleId :  
 VSTDIC100

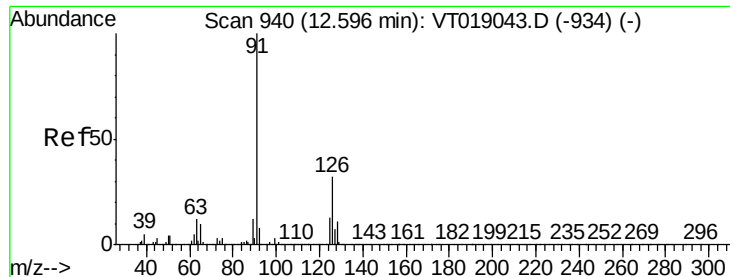
Tot Ion:105 Resp: 6089195  
 Ion Ratio Lower Upper  
 105 100  
 120 52.7 23.2 69.5



#80  
 trans-1,4-Dichloro-2-butene  
 Concen: 100.99 ug/l  
 RT: 12.12 min Scan# 900  
 Delta R.T. 0.00 min  
 Lab File: VT019045.D  
 Acq: 8 May 2018 19:50

Tgt Ion: 75 Resp: 310626  
 Ion Ratio Lower Upper  
 75 100  
 53 87.2 70.8 106.2  
 89 45.3 35.8 53.8

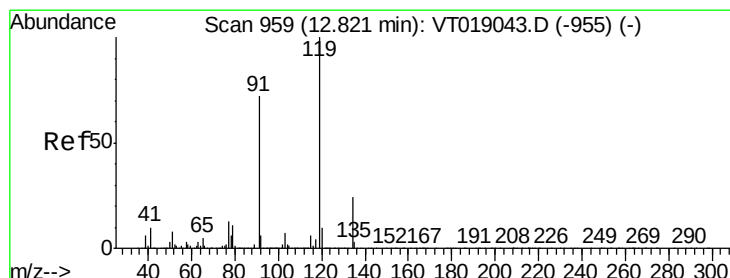
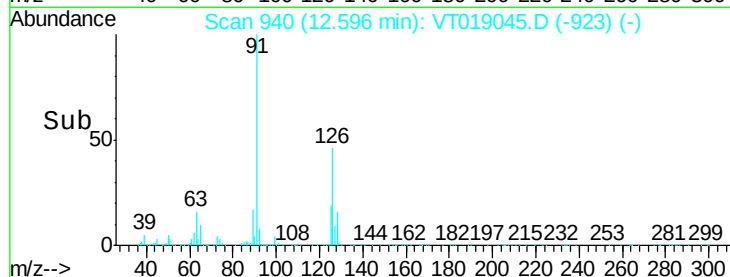
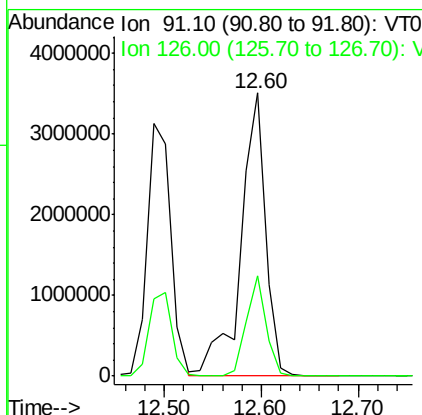
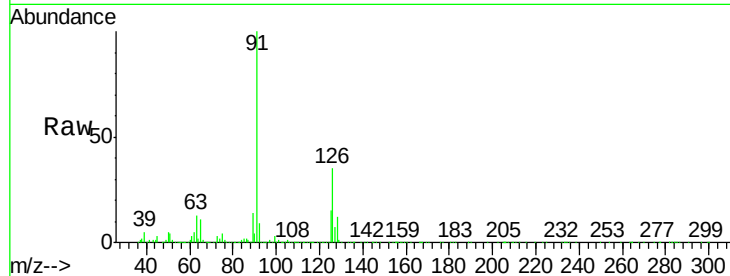




#81  
4-Chlorotoluene  
Concen: 116.02 ug/l  
RT: 12.60 min Scan# 940  
Delta R.T. 0.00 min  
Lab File: VT019045.D  
Acq: 8 May 2018 19:50

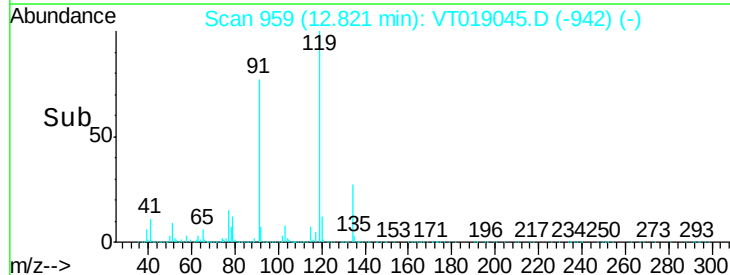
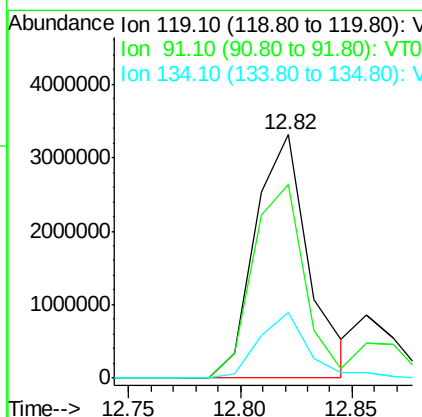
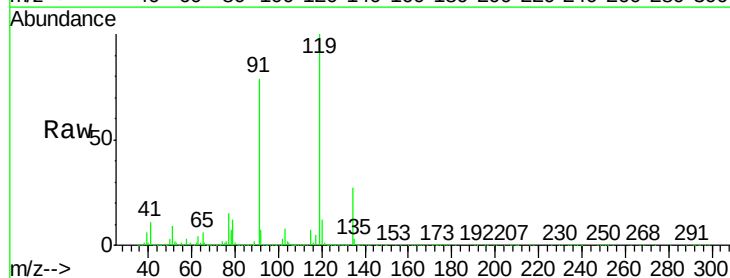
Instrument :  
MSVOA\_T  
ClientSampleId :  
VSTDIC100

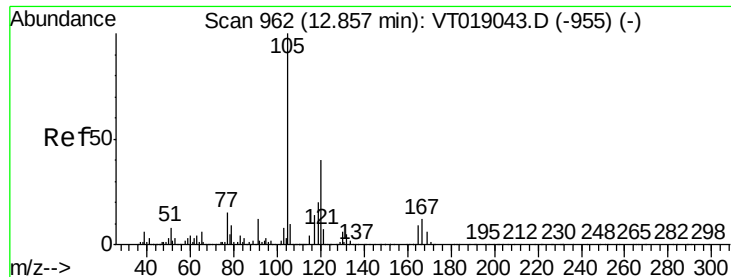
Tot Ion: 91 Resp: 6218852  
Ion Ratio Lower Upper  
91 100  
126 35.4 16.0 47.9



#82  
tert-Butylbenzene  
Concen: 109.86 ug/l m  
RT: 12.82 min Scan# 959  
Delta R.T. 0.00 min  
Lab File: VT019045.D  
Acq: 8 May 2018 19:50

Tgt Ion: 119 Resp: 5527711  
Ion Ratio Lower Upper  
119 100  
91 79.4 36.1 108.3  
134 27.2 12.0 36.1

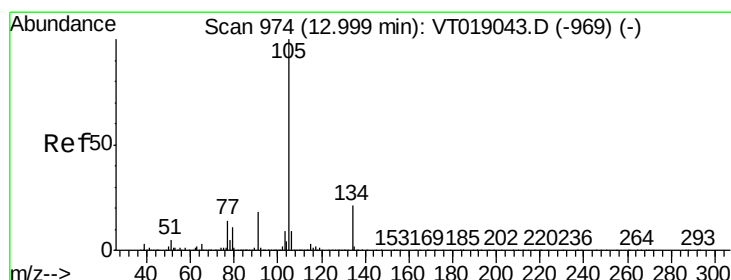
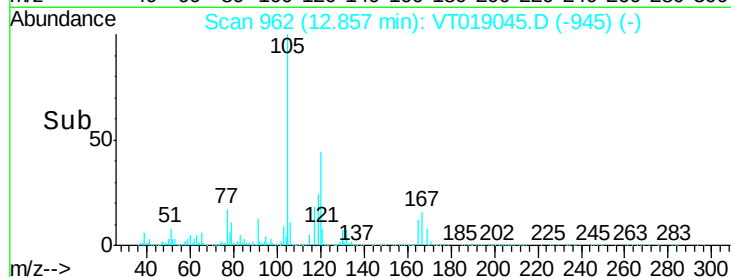
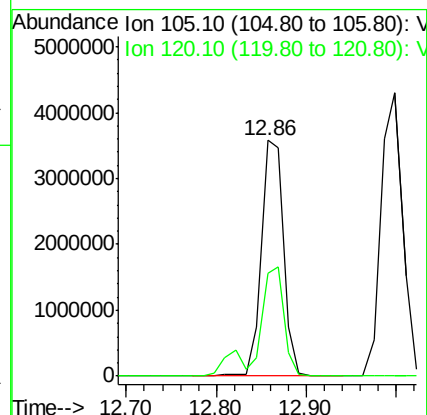
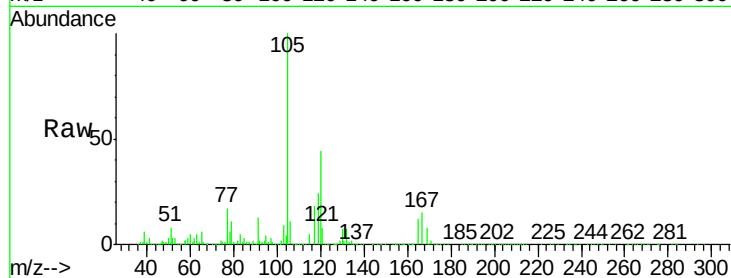




#83  
 1,2,4-Trimethylbenzene  
 Concen: 107.72 ug/l  
 RT: 12.86 min Scan# 962  
 Delta R.T. 0.00 min  
 Lab File: VT019045.D  
 Acq: 8 May 2018 19:50

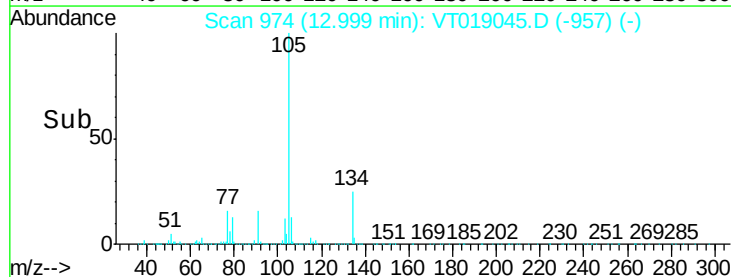
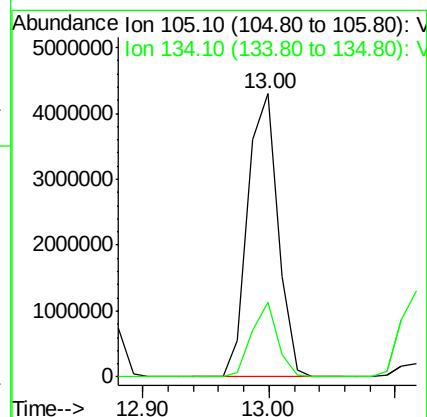
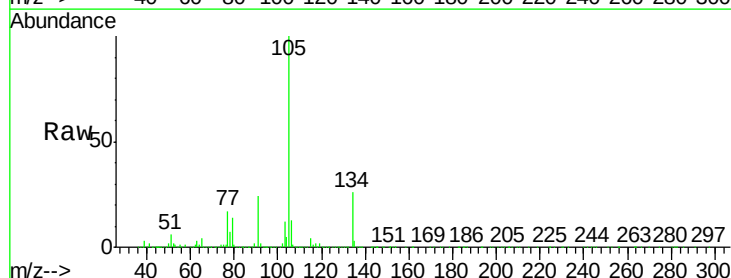
Instrument :  
 MSVOA\_T  
 ClientSampleId :  
 VSTDIC100

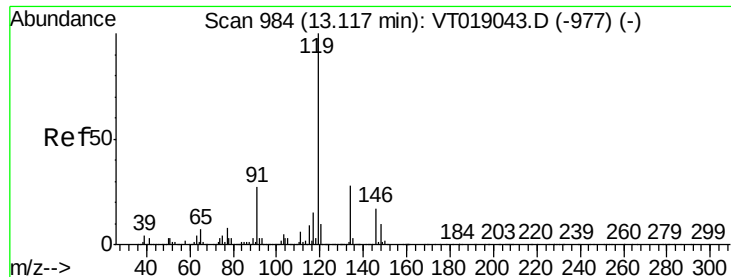
Tot Ion:105 Resp: 6163996  
 Ion Ratio Lower Upper  
 105 100  
 120 43.7 20.0 59.9



#84  
 sec-Butylbenzene  
 Concen: 100.55 ug/l  
 RT: 13.00 min Scan# 974  
 Delta R.T. 0.00 min  
 Lab File: VT019045.D  
 Acq: 8 May 2018 19:50

Tgt Ion:105 Resp: 7167189  
 Ion Ratio Lower Upper  
 105 100  
 134 26.3 10.4 31.2

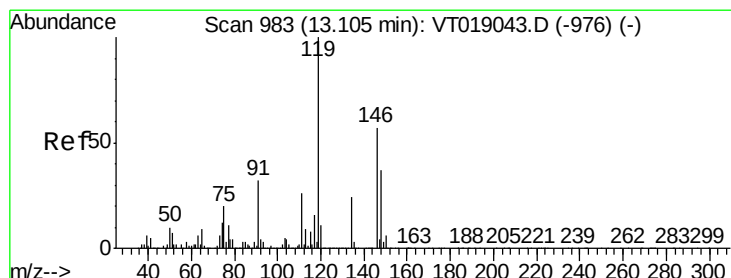
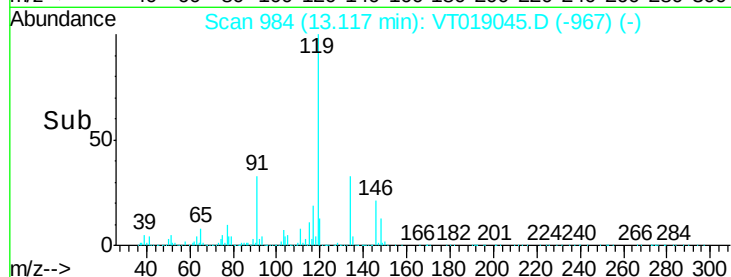
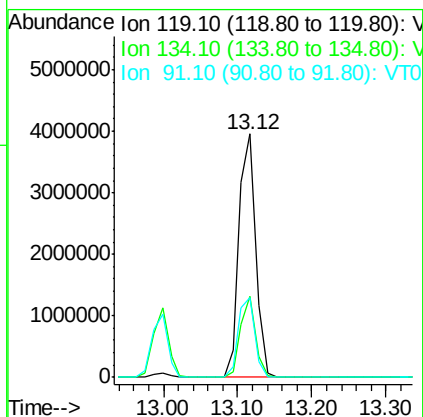
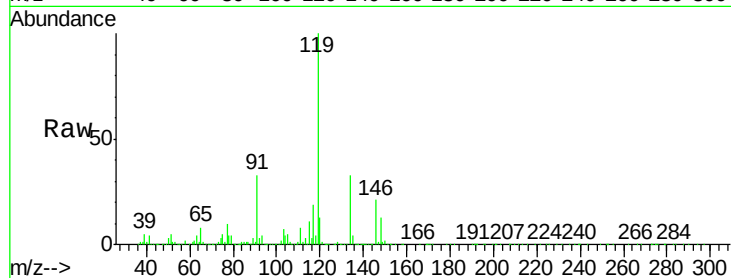




#85  
p-Isopropyltoluene  
Concen: 99.92 ug/l  
RT: 13.12 min Scan# 984  
Delta R.T. 0.00 min  
Lab File: VT019045.D  
Acq: 8 May 2018 19:50

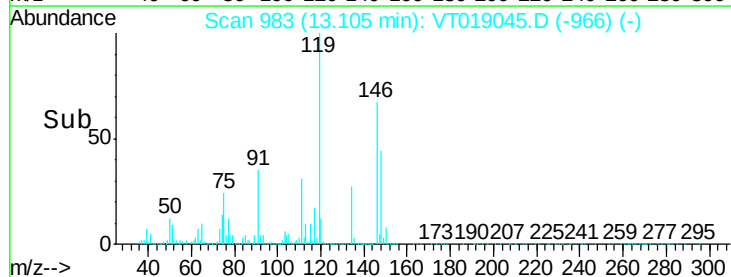
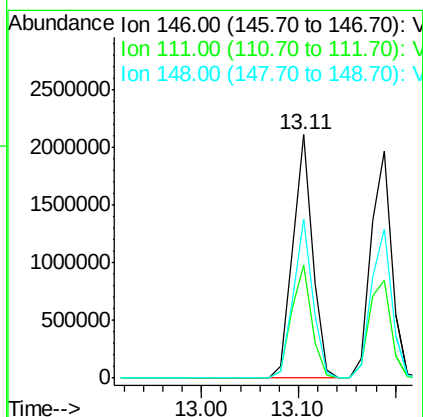
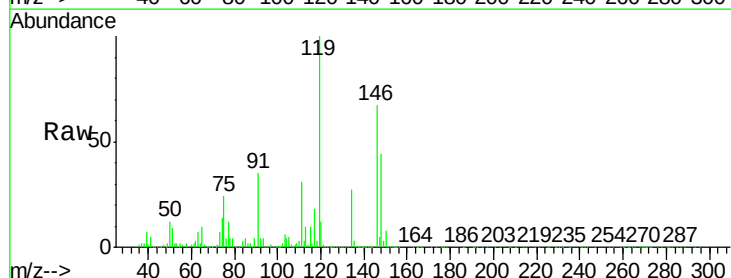
Instrument :  
MSVOA\_T  
ClientSampleId :  
VSTDIC100

Tot Ion:119 Resp: 6263211  
Ion Ratio Lower Upper  
119 100  
134 33.1 14.1 42.3  
91 33.0 13.5 40.4

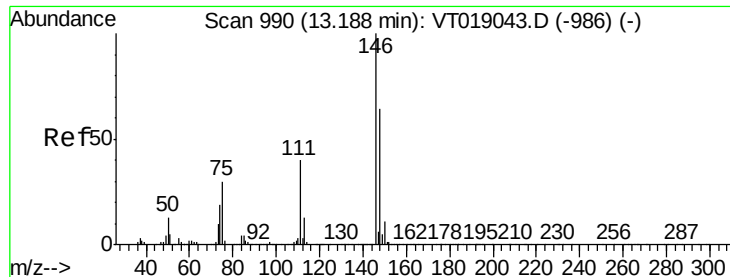


#86  
1,3-Dichlorobenzene  
Concen: 97.99 ug/l  
RT: 13.11 min Scan# 983  
Delta R.T. 0.00 min  
Lab File: VT019045.D  
Acq: 8 May 2018 19:50

Tgt Ion:146 Resp: 2980414  
Ion Ratio Lower Upper  
146 100  
111 46.3 23.1 69.2  
148 65.2 32.5 97.5



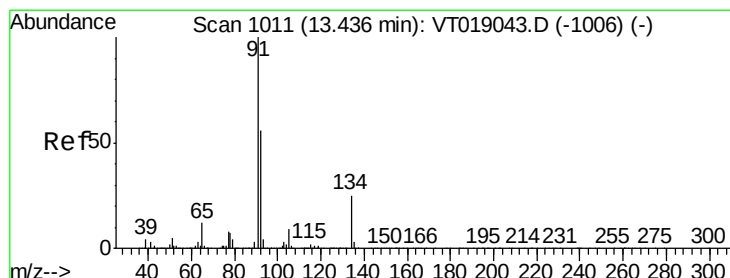
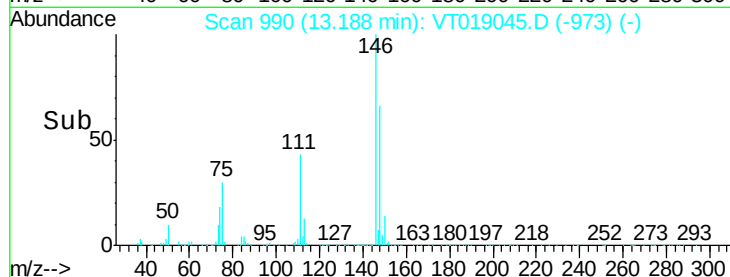
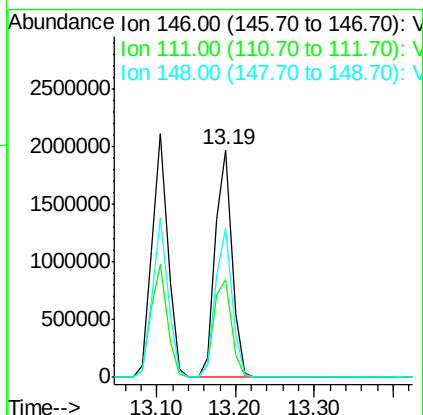
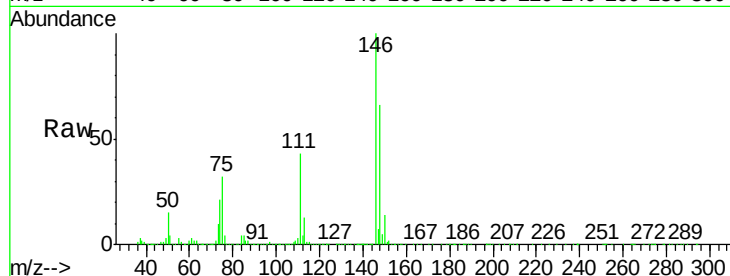




#87  
1,4-Dichlorobenzene  
Concen: 96.91 ug/l  
RT: 13.19 min Scan# 990  
Delta R.T. 0.00 min  
Lab File: VT019045.D  
Acq: 8 May 2018 19:50

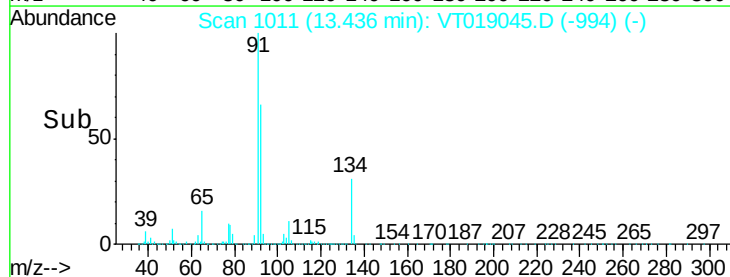
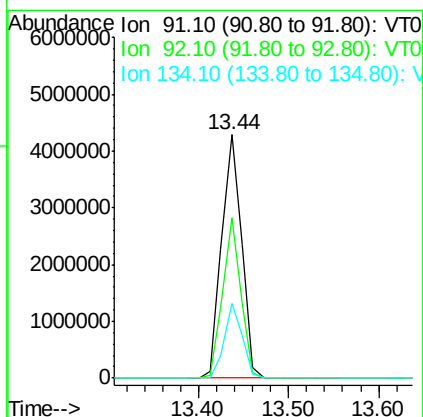
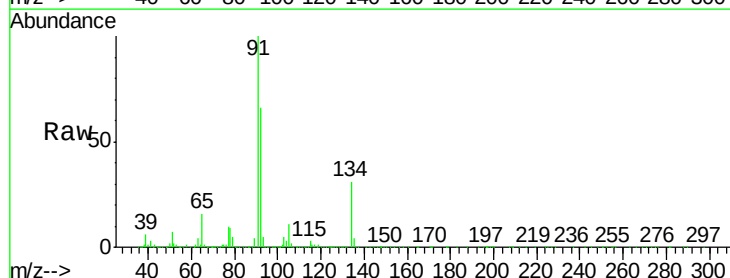
Instrument :  
MSVOA\_T  
ClientSampleId :  
VSTDIC100

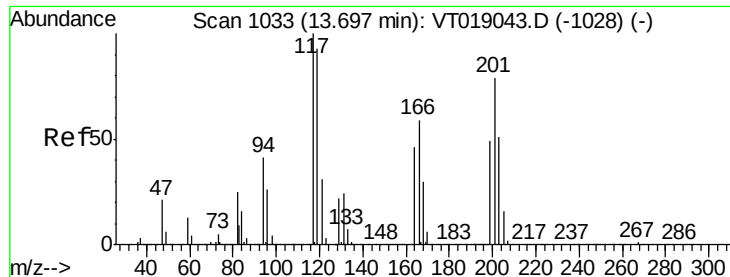
Tot Ion:146 Resp: 2932578  
Ion Ratio Lower Upper  
146 100  
111 42.7 20.3 60.8  
148 65.6 32.3 96.8



#88  
n-Butylbenzene  
Concen: 112.73 ug/l  
RT: 13.44 min Scan# 1011  
Delta R.T. 0.00 min  
Lab File: VT019045.D  
Acq: 8 May 2018 19:50

Tgt Ion: 91 Resp: 6554014  
Ion Ratio Lower Upper  
91 100  
92 65.8 28.0 84.0  
134 30.6 12.4 37.0





#89

Hexachloroethane

Concen: 122.59 ug/l

RT: 13.70 min Scan# 1033

Delta R.T. 0.00 min

Lab File: VT019045.D

Acq: 8 May 2018 19:50

Instrument :

MSVOA\_T

ClientSampleId :

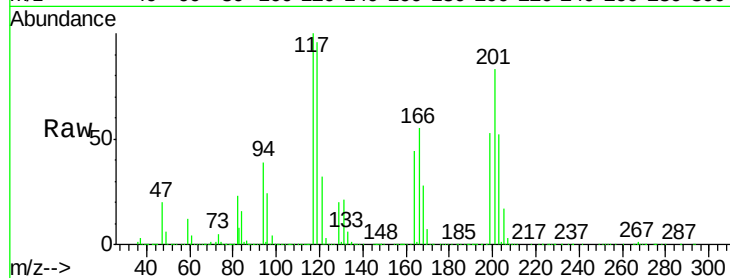
VSTDIC100

Tot Ion:117 Resp: 1254195

Ion Ratio Lower Upper

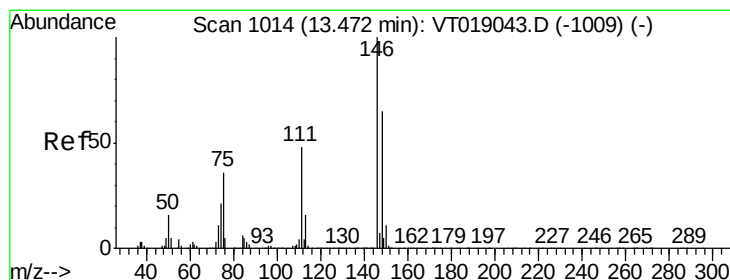
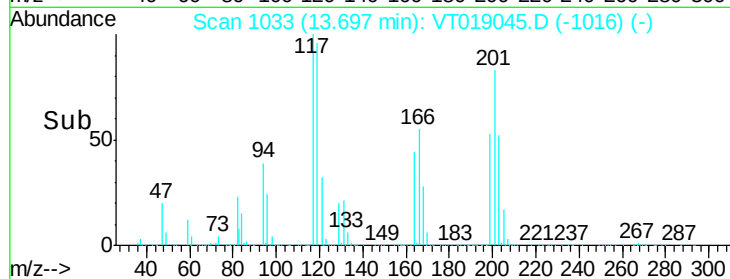
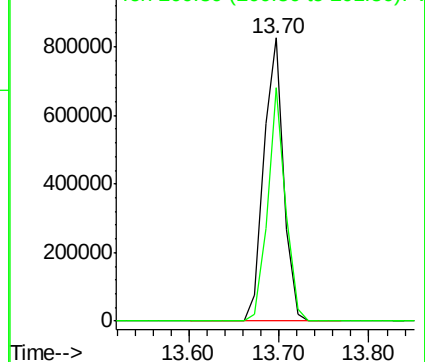
117 100

201 82.6 39.4 118.1



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 200.80 (200.50 to 201.50): V



#90

1,2-Dichlorobenzene

Concen: 95.77 ug/l

RT: 13.47 min Scan# 1014

Delta R.T. 0.00 min

Lab File: VT019045.D

Acq: 8 May 2018 19:50

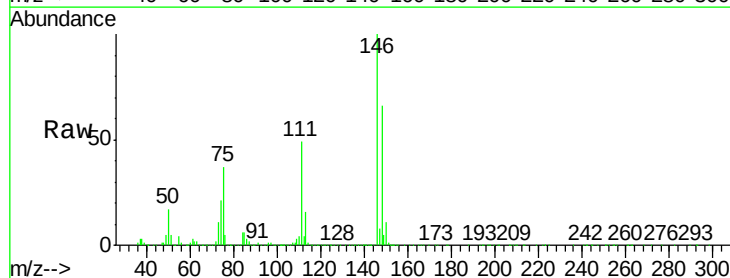
Tgt Ion:146 Resp: 2508748

Ion Ratio Lower Upper

146 100

111 49.5 23.8 71.2

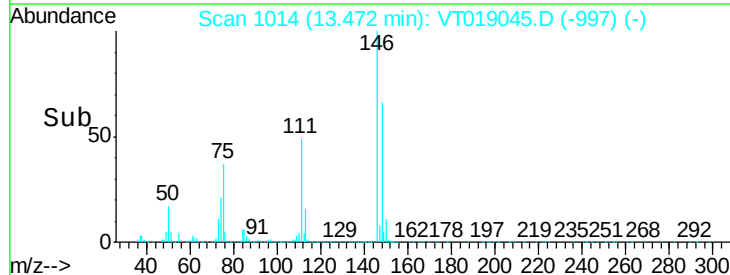
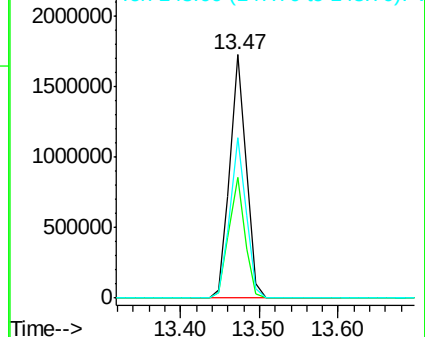
148 66.0 32.7 98.1

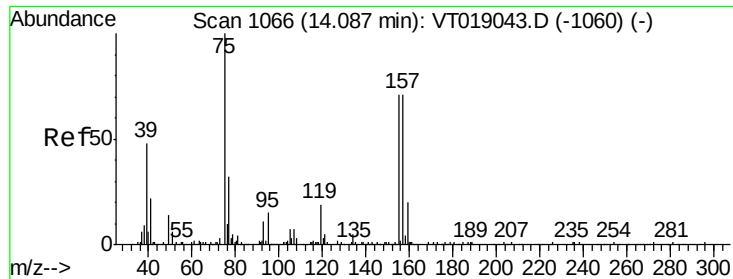


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#91

1,2-Dibromo-3-Chloropropane

Concen: 110.73 ug/l

RT: 14.09 min Scan# 1066

Delta R.T. 0.00 min

Lab File: VT019045.D

Acq: 8 May 2018 19:50

Instrument :

MSVOA\_T

ClientSampleId :

VSTDIC100

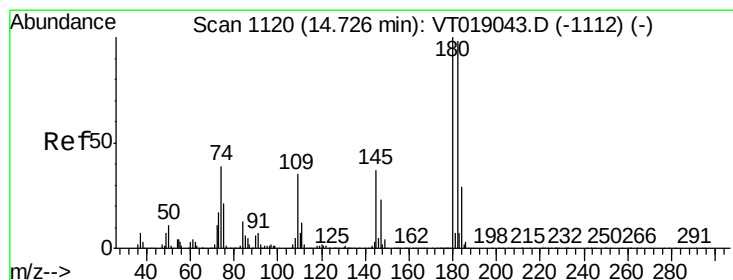
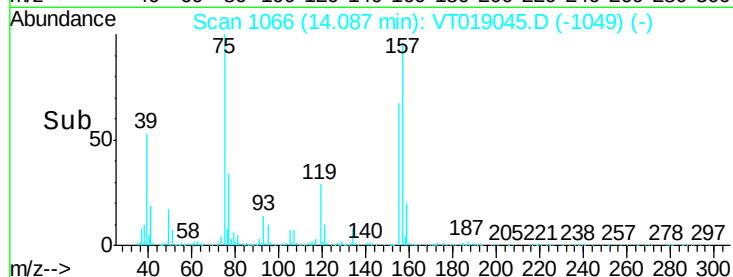
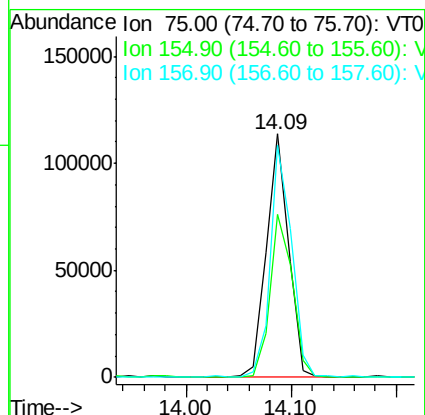
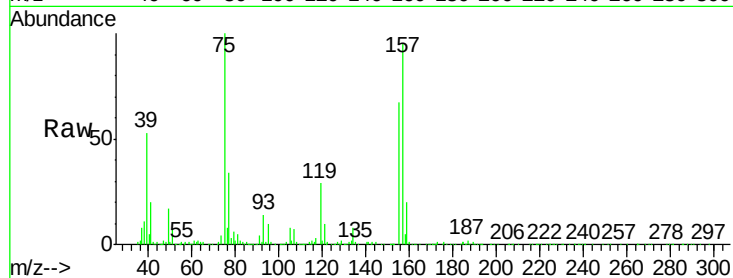
Tot Ion: 75 Resp: 168623

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 75  | 100   |       |       |
| 155 | 67.2  | 35.6  | 106.8 |
| 157 | 95.3  | 35.8  | 107.3 |

75 100

155 67.2 35.6 106.8

157 95.3 35.8 107.3



#92

1,2,4-Trichlorobenzene

Concen: 102.41 ug/l

RT: 14.73 min Scan# 1120

Delta R.T. 0.00 min

Lab File: VT019045.D

Acq: 8 May 2018 19:50

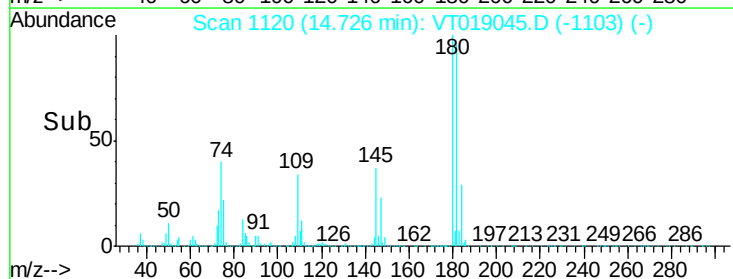
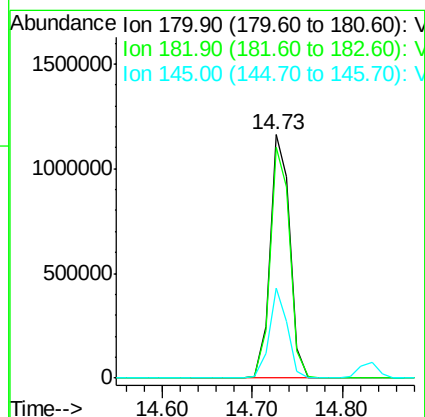
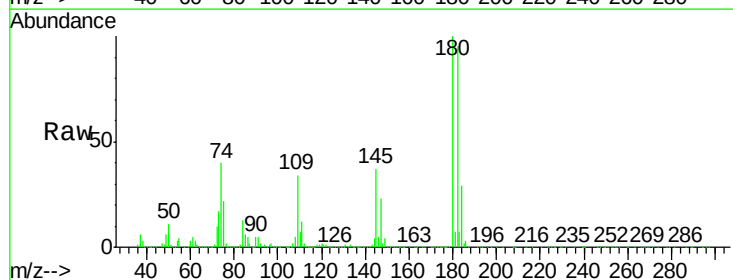
Tgt Ion:180 Resp: 1794283

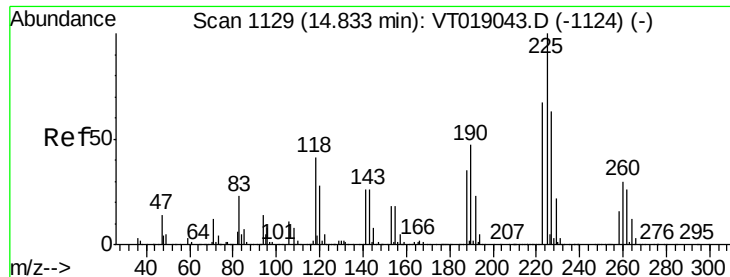
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 180 | 100   |       |       |
| 182 | 94.9  | 49.0  | 147.0 |
| 145 | 36.7  | 18.3  | 54.9  |

180 100

182 94.9 49.0 147.0

145 36.7 18.3 54.9

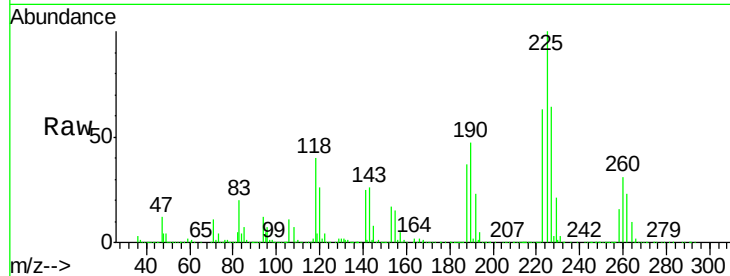




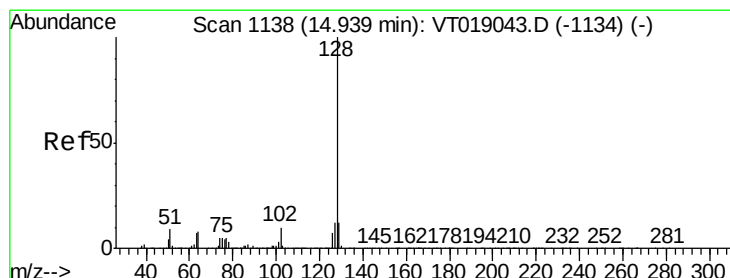
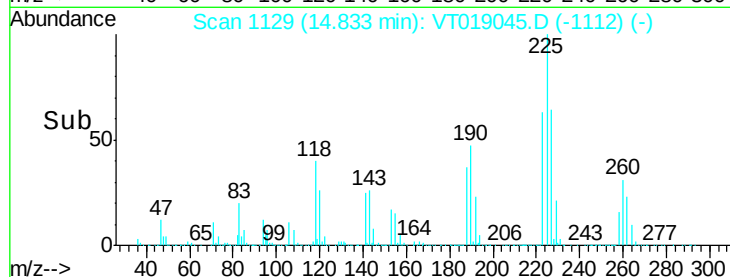
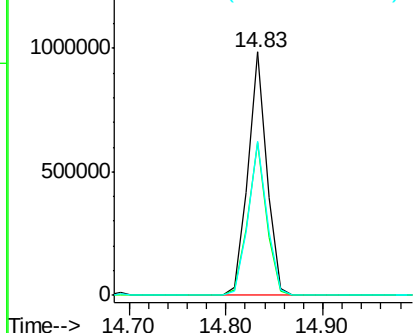
#93  
Hexachlorobutadiene  
Concen: 114.65 ug/l  
RT: 14.83 min Scan# 1129  
Delta R.T. 0.00 min  
Lab File: VT019045.D  
Acq: 8 May 2018 19:50

Instrument :  
MSVOA\_T  
ClientSampleId :  
VSTDIC100

Tot Ion:225 Resp: 1321092  
Ion Ratio Lower Upper  
225 100  
223 62.5 33.5 100.4  
227 63.5 31.7 95.1

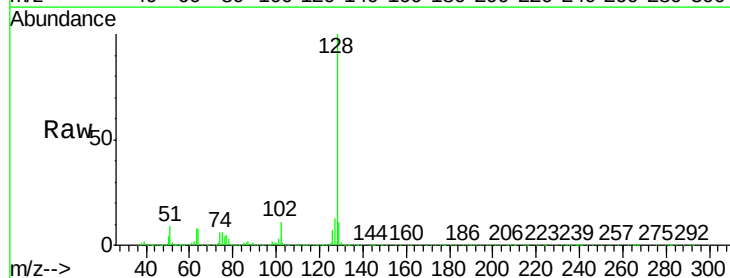


Abundance Ion 224.80 (224.50 to 225.50): V  
Ion 222.80 (222.50 to 223.50): V  
Ion 226.80 (226.50 to 227.50): V

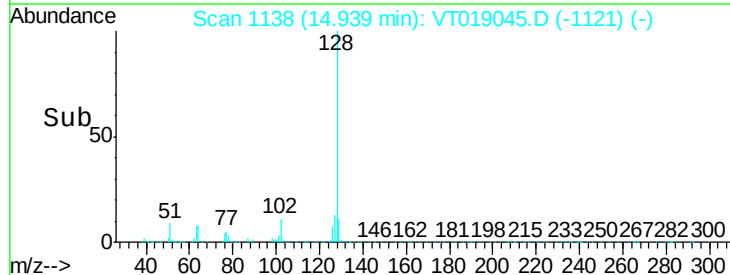
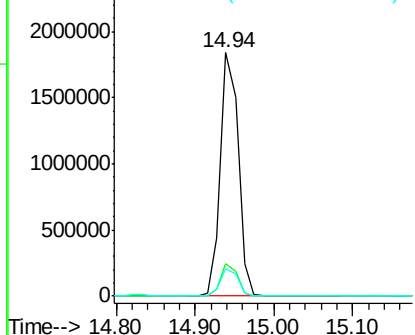


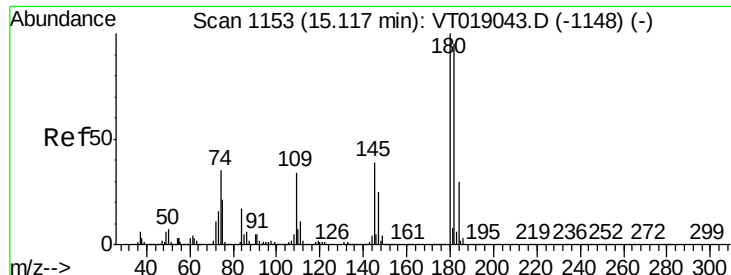
#94  
Naphthalene  
Concen: 100.16 ug/l  
RT: 14.94 min Scan# 1138  
Delta R.T. 0.00 min  
Lab File: VT019045.D  
Acq: 8 May 2018 19:50

Tgt Ion:128 Resp: 2886914  
Ion Ratio Lower Upper  
128 100  
127 13.1 9.9 14.9  
129 11.4 9.3 13.9



Abundance Ion 128.10 (127.80 to 128.80): V  
Ion 127.10 (126.80 to 127.80): V  
Ion 129.10 (128.80 to 129.80): V





#95

1,2,3-Trichlorobenzene

Concen: 96.18 ug/l

RT: 15.12 min Scan# 1153

Delta R.T. 0.00 min

Lab File: VT019045.D

Acq: 8 May 2018 19:50

Instrument :

MSVOA\_T

ClientSampleId :

VSTDIC100

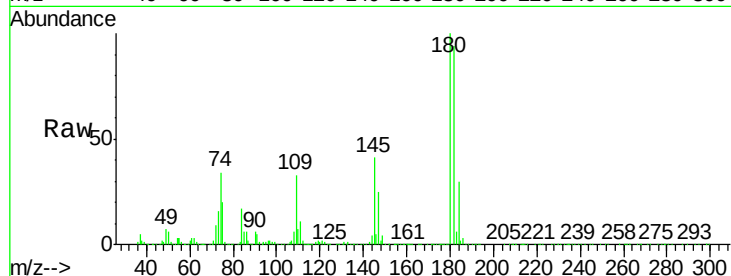
Tot Ion:180 Resp: 1442007

Ion Ratio Lower Upper

180 100

182 94.4 47.7 143.1

145 40.6 19.4 58.1



Abundance

Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 145.00 (144.70 to 145.70): V

