

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW080618\  
 Data File : VW004481.D  
 Acq On : 06 Aug 2018 20:27  
 Operator : SY/AP  
 Sample : VSTDICC100  
 Misc : 5.00G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDICC100

Quant Time: Aug 07 07:58:09 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W080618S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 07 07:40:37 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 788984   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 1242635  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 1148242  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 593936   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |        |         |      |
|-----------------------------|--------|-----|----------|--------|---------|------|
| System Monitoring Compounds |        |     |          |        |         |      |
| 33) 1,2-Dichloroethane-d4   | 8.31   | 65  | 845413   | 105.04 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =      | 210.08% |      |
| 35) Dibromofluoromethane    | 7.88   | 113 | 801484   | 101.17 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =      | 202.34% |      |
| 50) Toluene-d8              | 10.33  | 98  | 3116458  | 100.15 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =      | 200.30% |      |
| 62) 4-Bromofluorobenzene    | 12.62  | 95  | 1148879  | 103.85 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =      | 207.70% |      |

| Target Compounds              |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 2.01 | 85  | 505009  | 157.938 | ug/l | 99     |
| 3) Chloromethane              | 2.22 | 50  | 767994  | 152.233 | ug/l | 100    |
| 4) Vinyl Chloride             | 2.37 | 62  | 988489  | 121.047 | ug/l | 99     |
| 5) Bromomethane               | 2.78 | 94  | 593746  | 113.031 | ug/l | 98     |
| 6) Chloroethane               | 2.92 | 64  | 620339  | 121.579 | ug/l | 99     |
| 7) Trichlorofluoromethane     | 3.25 | 101 | 402428  | 89.322  | ug/l | 98     |
| 8) Diethyl Ether              | 3.67 | 74  | 479862  | 113.039 | ug/l | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.05 | 101 | 826180  | 103.002 | ug/l | 99     |
| 10) Methyl Iodide             | 4.26 | 142 | 1269457 | 106.280 | ug/l | 100    |
| 11) Tert butyl alcohol        | 5.21 | 59  | 258839  | 447.470 | ug/l | 98     |
| 12) 1,1-Dichloroethene        | 4.04 | 96  | 841158  | 105.459 | ug/l | 97     |
| 13) Acrolein                  | 3.89 | 56  | 306834  | 575.527 | ug/l | 100    |
| 14) Allyl chloride            | 4.66 | 41  | 1340591 | 106.099 | ug/l | 99     |
| 15) Acrylonitrile             | 5.37 | 53  | 1102582 | 595.887 | ug/l | 99     |
| 16) Acetone                   | 4.14 | 43  | 1007803 | 548.613 | ug/l | 99     |
| 17) Carbon Disulfide          | 4.37 | 76  | 2709349 | 109.789 | ug/l | 99     |
| 18) Methyl Acetate            | 4.67 | 43  | 540712  | 112.589 | ug/l | 99     |
| 19) Methyl tert-butyl Ether   | 5.43 | 73  | 1237013 | 90.202  | ug/l | 97     |
| 20) Methylene Chloride        | 4.91 | 84  | 952228  | 107.276 | ug/l | 100    |
| 21) trans-1,2-Dichloroethene  | 5.42 | 96  | 926387  | 108.135 | ug/l | 98     |
| 22) Diisopropyl ether         | 6.31 | 45  | 2775354 | 114.511 | ug/l | 99     |
| 23) Vinyl Acetate             | 6.26 | 43  | 8756162 | 617.288 | ug/l | 99     |
| 24) 1,1-Dichloroethane        | 6.21 | 63  | 1684260 | 107.539 | ug/l | 99     |
| 25) 2-Butanone                | 7.18 | 43  | 1791516 | 750.261 | ug/l | 100    |
| 26) 2,2-Dichloropropane       | 7.17 | 77  | 819929  | 92.679  | ug/l | 100    |
| 27) cis-1,2-Dichloroethene    | 7.17 | 96  | 1014096 | 115.646 | ug/l | 100    |
| 28) Bromochloromethane        | 7.51 | 49  | 745274  | 130.806 | ug/l | 100    |
| 29) Tetrahydrofuran           | 7.54 | 42  | 966171  | 658.042 | ug/l | 100    |
| 30) Chloroform                | 7.68 | 83  | 1622001 | 108.666 | ug/l | 99     |
| 31) Cyclohexane               | 7.96 | 56  | 1592609 | 114.578 | ug/l | 99     |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97  | 1224791 | 101.376 | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 8.09 | 75  | 1333665 | 106.073 | ug/l | 100    |
| 37) Ethyl Acetate             | 7.26 | 43  | 633292  | 121.508 | ug/l | 99     |
| 38) Carbon Tetrachloride      | 8.07 | 117 | 1179272 | 96.138  | ug/l | 99     |

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Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDICC100

Quant Time: Aug 07 07:58:09 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W080618S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 07 07:40:37 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 1740248  | 113.911  | ug/l   | 99       |
| 40) Benzene                    | 8.32  | 78   | 3860907  | 108.665  | ug/l   | 100      |
| 41) Methacrylonitrile          | 7.49  | 41   | 370929   | 124.374  | ug/l   | 99       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 1058514  | 104.768  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.43  | 43   | 1182210  | 126.322  | ug/l   | 99       |
| 44) Trichloroethene            | 9.09  | 130  | 956582   | 100.810  | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 983992   | 111.567  | ug/l   | 98       |
| 46) Dibromomethane             | 9.46  | 93   | 493776   | 109.363  | ug/l   | 100      |
| 47) Bromodichloromethane       | 9.65  | 83   | 1169649  | 103.470  | ug/l   | 98       |
| 48) Methyl methacrylate        | 9.44  | 41   | 568686   | 120.279  | ug/l   | 98       |
| 49) 1,4-Dioxane                | 9.47  | 88   | 162930   | 2374.656 | ug/l # | 94       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 4040562  | 741.485  | ug/l   | 99       |
| 52) Toluene                    | 10.39 | 92   | 2306459  | 104.127  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.61 | 75   | 1246691  | 110.120  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 10.08 | 75   | 1433845  | 108.553  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 700496   | 109.244  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 974449   | 125.021  | ug/l   | 100      |
| 57) 1,3-Dichloropropane        | 10.94 | 76   | 1233011  | 112.493  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.93  | 63   | 2391143  | 670.296  | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.98 | 43   | 2743886  | 735.758  | ug/l   | 99       |
| 60) Dibromochloromethane       | 11.13 | 129  | 793089   | 104.176  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 666035   | 108.724  | ug/l   | 100      |
| 64) Tetrachloroethene          | 10.87 | 164  | 799586   | 95.703   | ug/l   | 97       |
| 65) Chlorobenzene              | 11.66 | 112  | 2528537  | 104.563  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.74 | 131  | 875058   | 102.481  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.74 | 91   | 4519485  | 106.780  | ug/l   | 98       |
| 68) m/p-Xylenes                | 11.85 | 106  | 3453127  | 212.607  | ug/l   | 98       |
| 69) o-Xylene                   | 12.17 | 106  | 1654459  | 110.157  | ug/l   | 100      |
| 70) Styrene                    | 12.19 | 104  | 2783607  | 109.280  | ug/l   | 100      |
| 71) Bromoform                  | 12.35 | 173  | 494173   | 103.507  | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.47 | 105  | 4485678  | 108.271  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.28 | 43   | 1140841  | 125.355  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.72 | 83   | 874362   | 117.751  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 1146478  | 213.600  | ug/l # | 100      |
| 77) Bromobenzene               | 12.75 | 156  | 1033502  | 103.681  | ug/l   | 100      |
| 78) n-propylbenzene            | 12.81 | 91   | 5407805  | 107.371  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.90 | 91   | 3080912  | 106.756  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.95 | 105  | 3746167  | 105.019  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.52 | 75   | 286305   | 120.975  | ug/l   | 97       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 3164600  | 103.059  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.21 | 119  | 3218692  | 108.503  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 3856884  | 105.773  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.39 | 105  | 4729080  | 109.002  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.51 | 119  | 4123357  | 106.145  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.51 | 146  | 2047646  | 102.058  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 2016962  | 100.805  | ug/l   | 100      |
| 89) n-Butylbenzene             | 13.83 | 91   | 4042724  | 110.405  | ug/l   | 99       |
| 90) Hexachloroethane           | 14.10 | 117  | 742081   | 106.845  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene        | 13.88 | 146  | 1866738  | 103.767  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 144871   | 112.688  | ug/l   | 99       |

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Data File : VW004481.D  
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Operator : SY/AP  
Sample : VSTDICC100  
Misc : 5.00G/5ML/MSVOA\_W/SOIL  
ALS Vial : 8 Sample Multiplier: 1

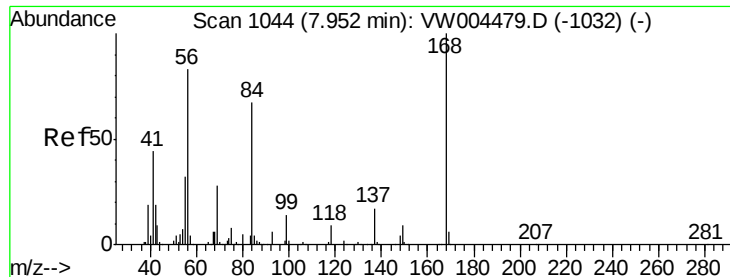
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDICC100

Quant Time: Aug 07 07:58:09 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W080618S.M  
Quant Title : SW846 8260  
QLast Update : Tue Aug 07 07:40:37 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|----------------------------|-------|------|----------|---------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.15 | 180  | 1333663  | 105.716 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 15.25 | 225  | 747207   | 97.435  | ug/l  | 100      |
| 95) Naphthalene            | 15.38 | 128  | 2727306  | 123.387 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.57 | 180  | 1197074  | 107.679 | ug/l  | 99       |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. 0.00 min

Lab File: VW004481.D

Acq: 06 Aug 2018 20:27

Instrument :

MSVOA\_W

ClientSampleId :

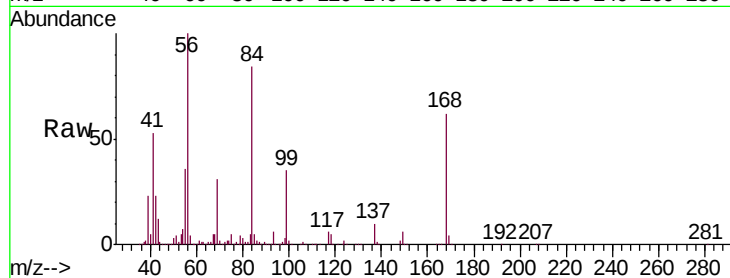
VSTDICC100

Tgt Ion:168 Resp: 788984

Ion Ratio Lower Upper

168 100

99 56.6 44.1 66.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

400000

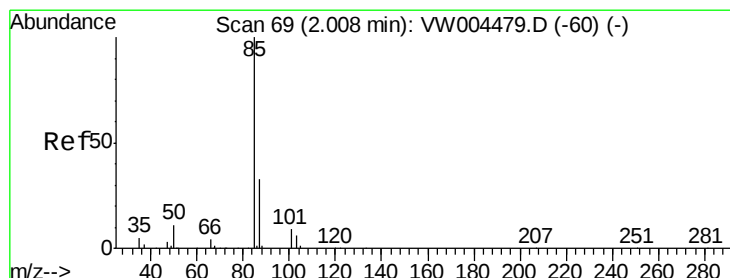
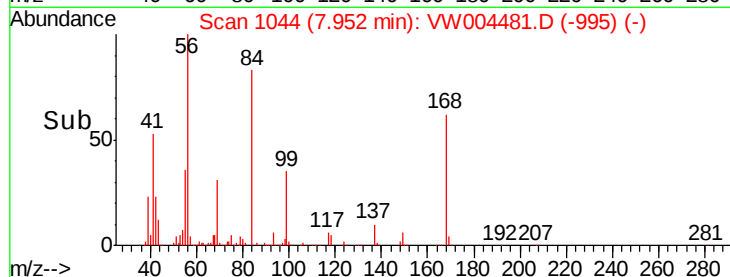
300000

200000

100000

0

Time--> 7.80 7.90 8.00



#2

Dichlorodifluoromethane

Concen: 157.938 ug/l

RT: 2.01 min Scan# 69

Delta R.T. 0.00 min

Lab File: VW004481.D

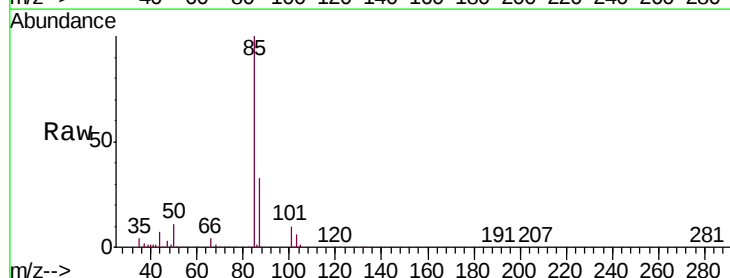
Acq: 06 Aug 2018 20:27

Tgt Ion: 85 Resp: 505009

Ion Ratio Lower Upper

85 100

87 32.6 16.7 50.0



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

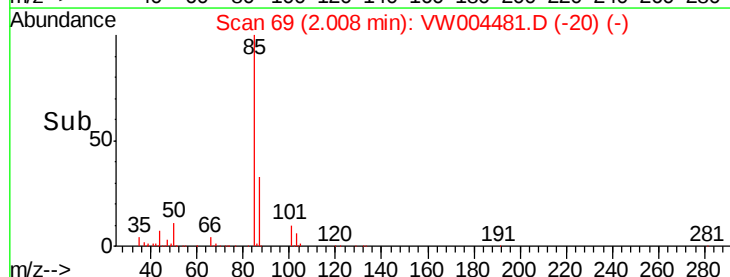
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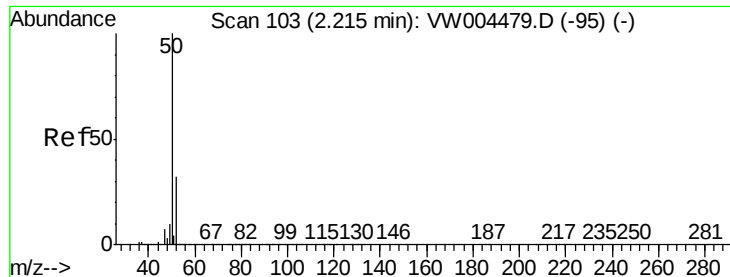
100000

50000

0

Time--> 1.90 2.00 2.10 2.20 2.30





#3

Chloromethane

Concen: 152.233 ug/l

RT: 2.22 min Scan# 104

Delta R.T. 0.01 min

Lab File: VW004481.D

Acq: 06 Aug 2018 20:27

Instrument :

MSVOA\_W

ClientSampleId :

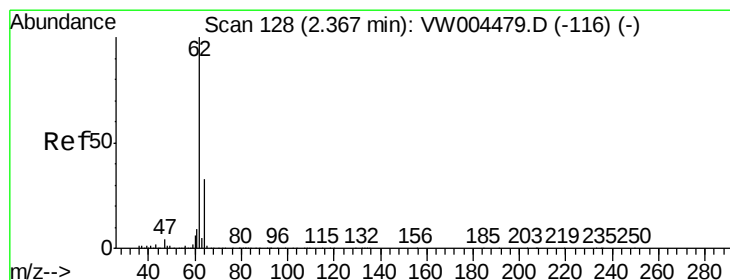
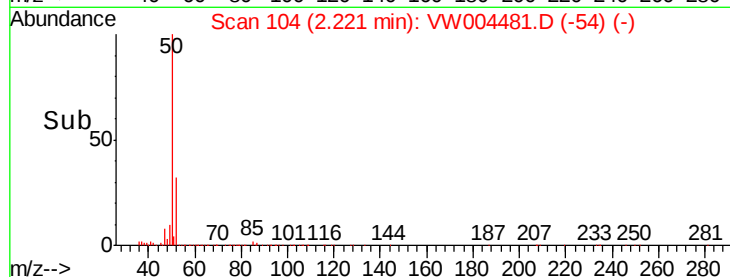
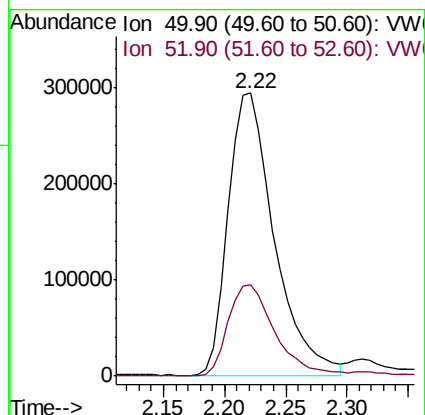
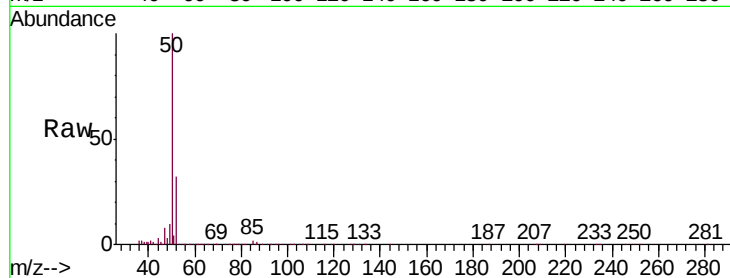
VSTDIC100

Tgt Ion: 50 Resp: 767994

Ion Ratio Lower Upper

50 100

52 32.3 25.8 38.8



#4

Vinyl Chloride

Concen: 121.047 ug/l

RT: 2.37 min Scan# 128

Delta R.T. 0.00 min

Lab File: VW004481.D

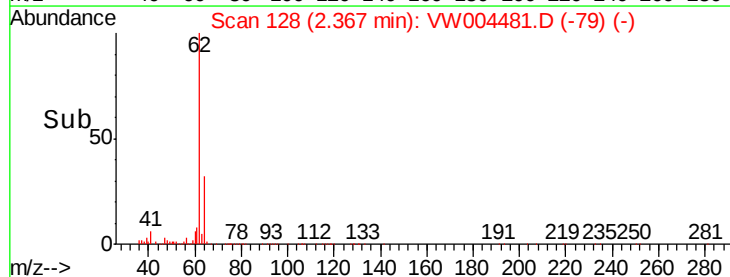
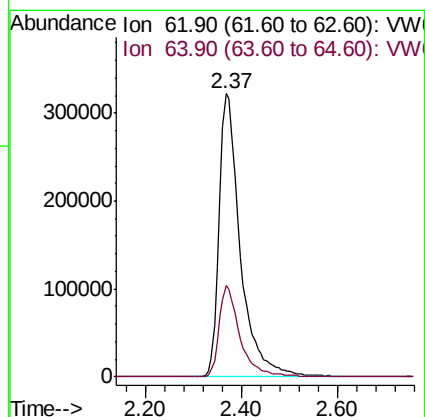
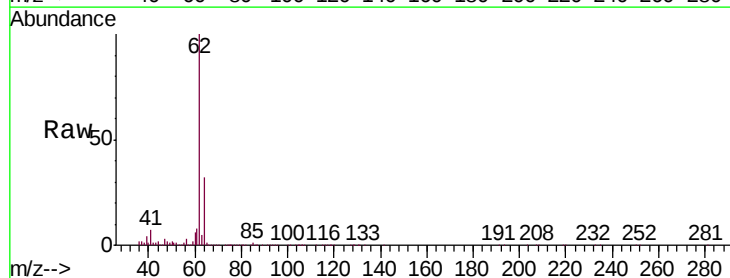
Acq: 06 Aug 2018 20:27

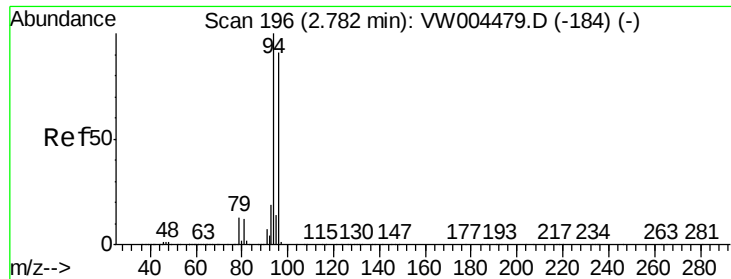
Tgt Ion: 62 Resp: 988489

Ion Ratio Lower Upper

62 100

64 32.3 26.2 39.2





#5

Bromomethane

Concen: 113.031 ug/l

RT: 2.78 min Scan# 195

Delta R.T. -0.01 min

Lab File: VW004481.D

Acq: 06 Aug 2018 20:27

Instrument :

MSVOA\_W

ClientSampleId :

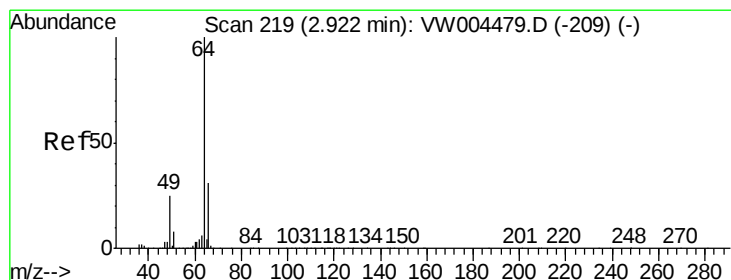
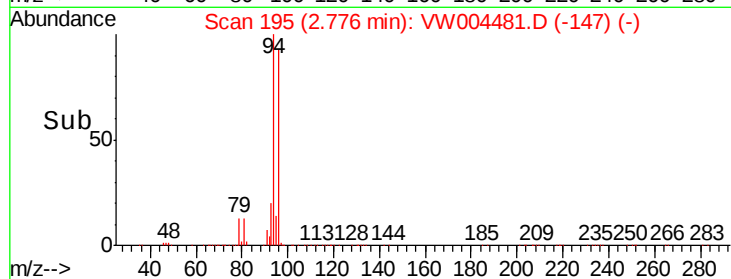
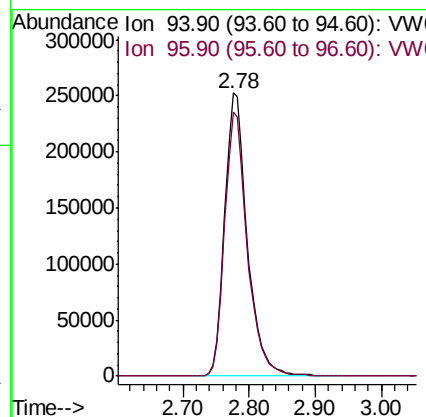
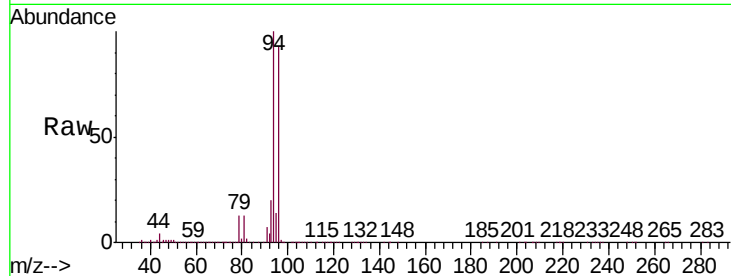
VSTDIC100

Tgt Ion: 94 Resp: 593746

Ion Ratio Lower Upper

94 100

96 93.4 72.9 109.3



#6

Chloroethane

Concen: 121.579 ug/l

RT: 2.92 min Scan# 219

Delta R.T. 0.00 min

Lab File: VW004481.D

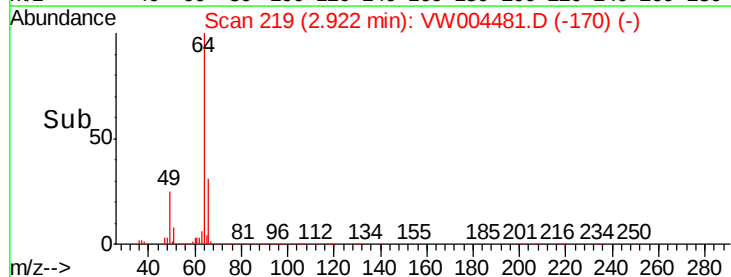
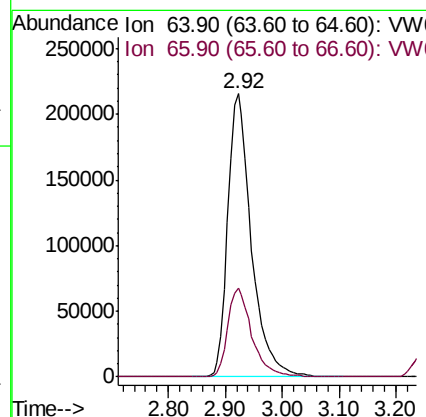
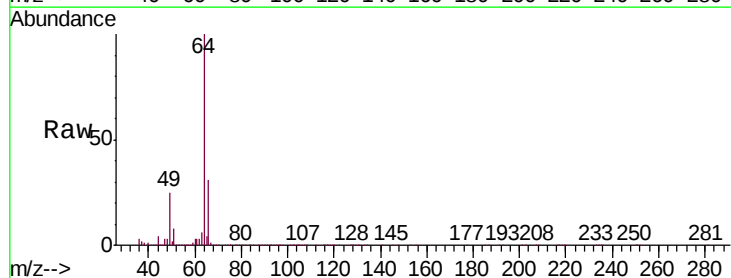
Acq: 06 Aug 2018 20:27

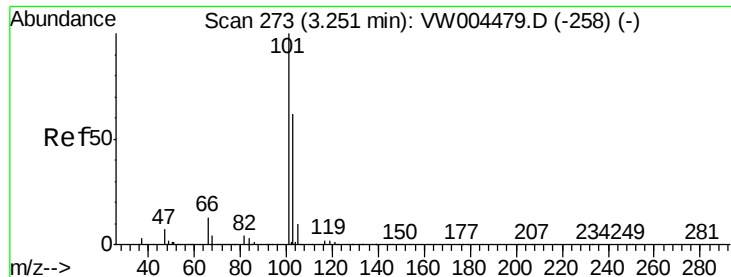
Tgt Ion: 64 Resp: 620339

Ion Ratio Lower Upper

64 100

66 31.0 24.6 36.8



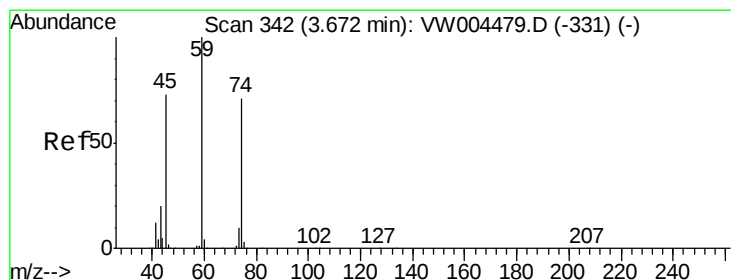
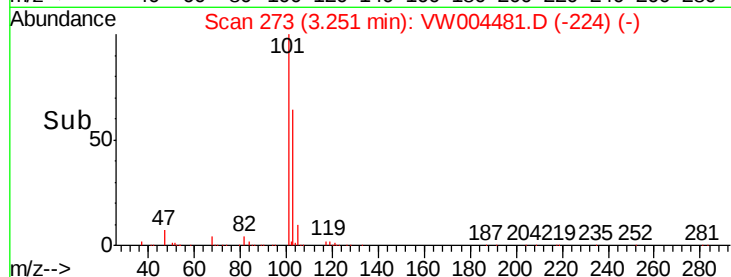
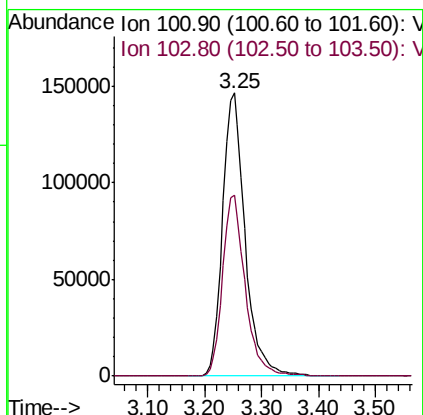
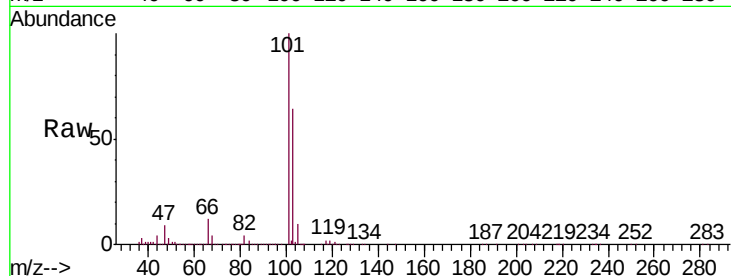


#7

Trichlorofluoromethane  
 Concen: 89.322 ug/l  
 RT: 3.25 min Scan# 273  
 Delta R.T. 0.00 min  
 Lab File: VW004481.D  
 Acq: 06 Aug 2018 20:27

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDIC100

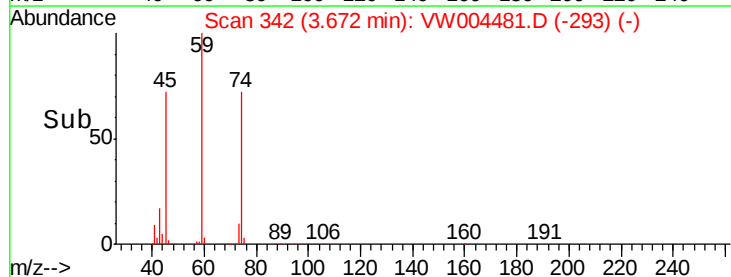
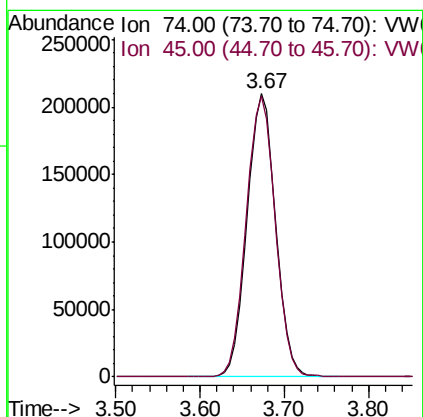
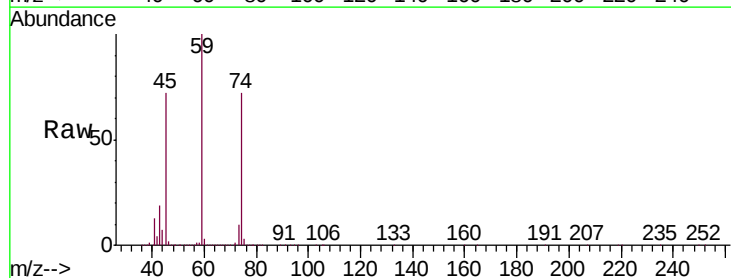
Tgt Ion: 101 Resp: 402428  
 Ion Ratio Lower Upper  
 101 100  
 103 63.6 49.8 74.8

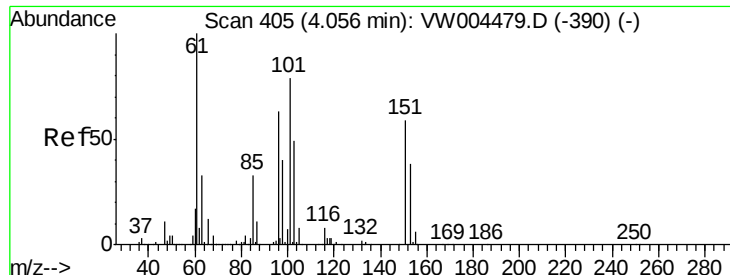


#8

Diethyl Ether  
 Concen: 113.039 ug/l  
 RT: 3.67 min Scan# 342  
 Delta R.T. 0.00 min  
 Lab File: VW004481.D  
 Acq: 06 Aug 2018 20:27

Tgt Ion: 74 Resp: 479862  
 Ion Ratio Lower Upper  
 74 100  
 45 100.7 51.2 153.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 103.002 ug/l

RT: 4.05 min Scan# 404

Delta R.T. -0.01 min

Lab File: VW004481.D

Acq: 06 Aug 2018 20:27

Instrument :

MSVOA\_W

ClientSampleId :

VSTDIC100

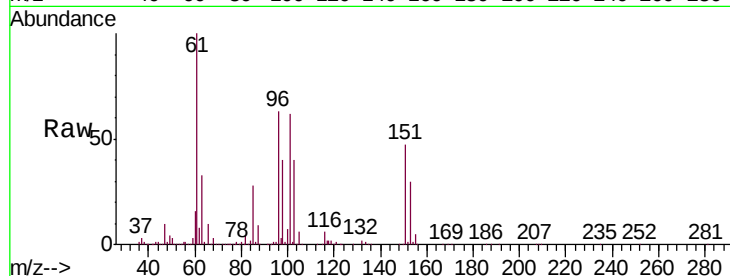
Tgt Ion:101 Resp: 826180

Ion Ratio Lower Upper

101 100

85 43.0 34.6 51.8

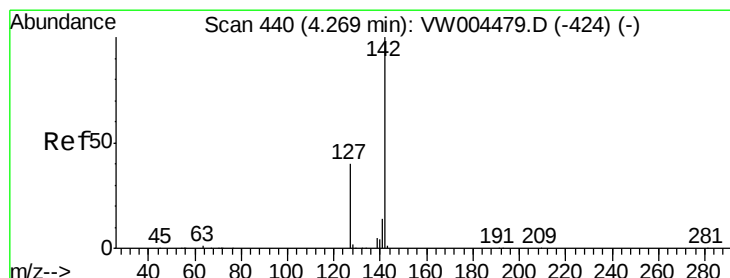
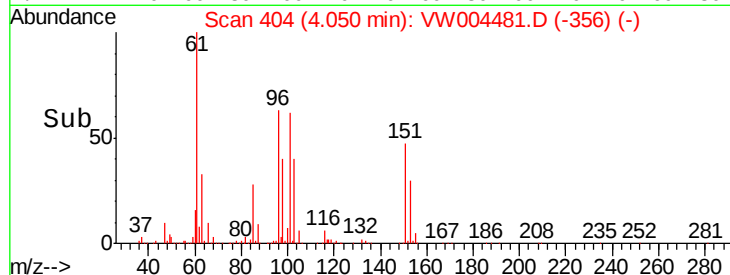
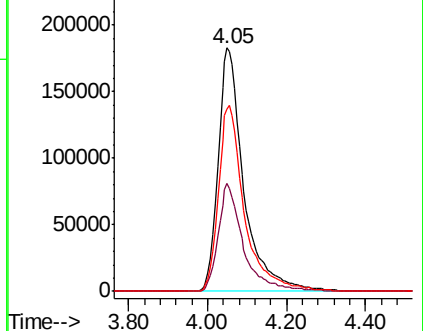
151 77.3 61.3 91.9



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VW

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 106.280 ug/l

RT: 4.26 min Scan# 439

Delta R.T. -0.01 min

Lab File: VW004481.D

Acq: 06 Aug 2018 20:27

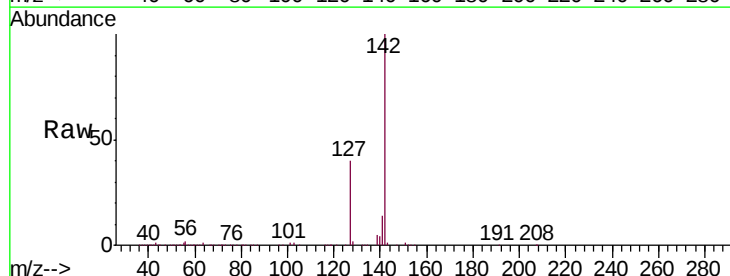
Tgt Ion:142 Resp: 1269457

Ion Ratio Lower Upper

142 100

127 41.1 32.7 49.1

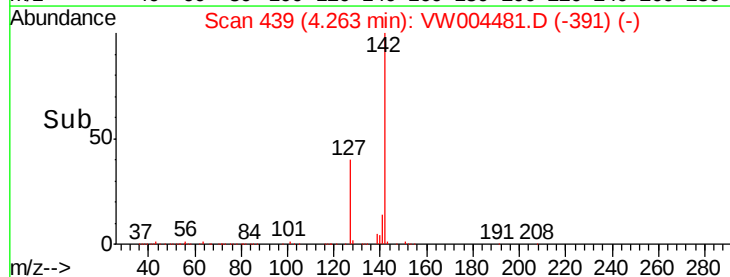
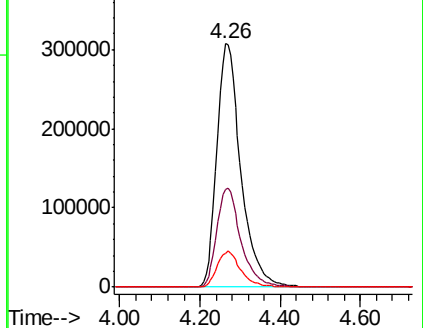
141 14.5 11.5 17.3

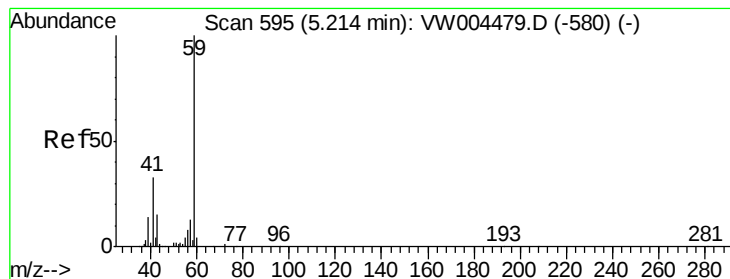


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



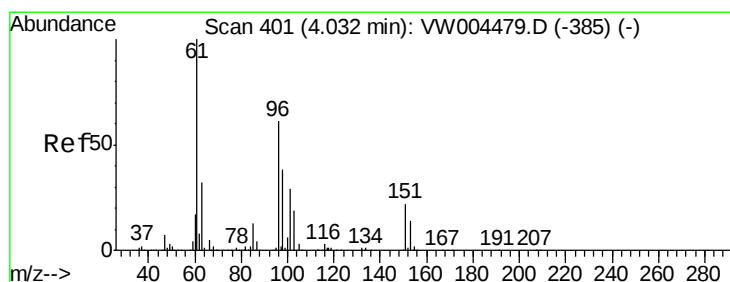
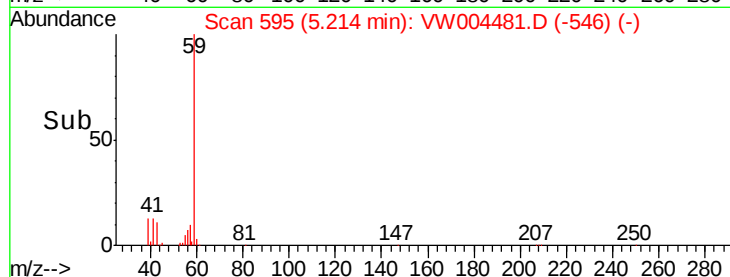
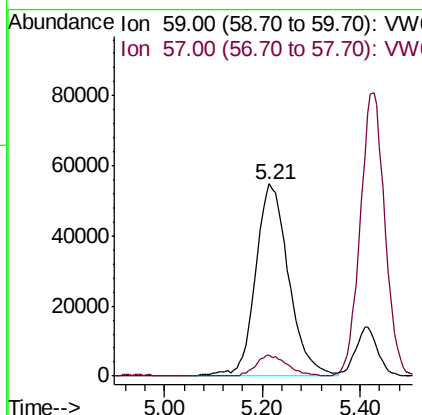
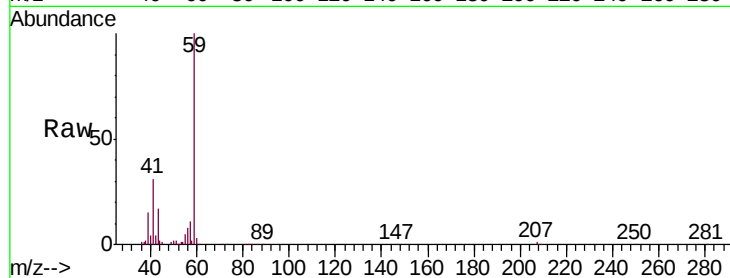


#11

Tert butyl alcohol  
 Concen: 447.470 ug/l  
 RT: 5.21 min Scan# 595  
 Delta R.T. 0.00 min  
 Lab File: VW004481.D  
 Acq: 06 Aug 2018 20:27

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDIC100

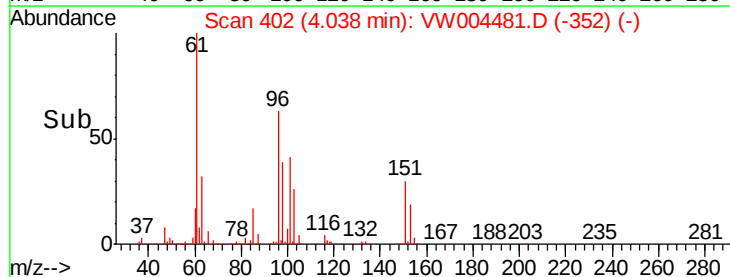
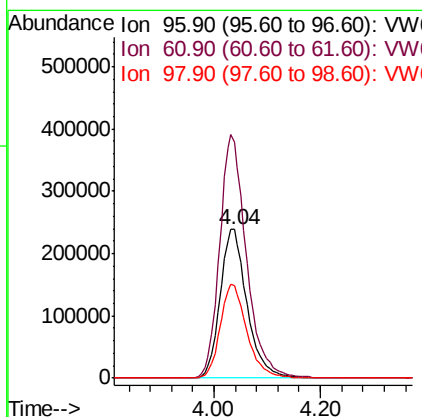
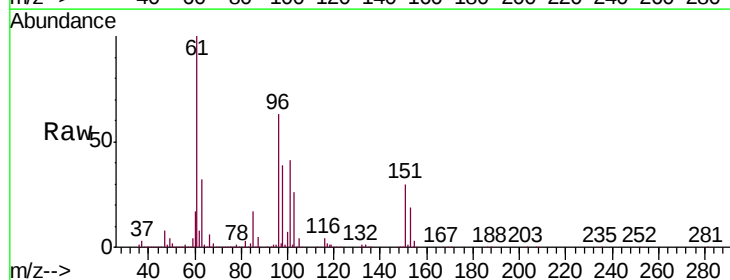
Tgt Ion: 59 Resp: 258839  
 Ion Ratio Lower Upper  
 59 100  
 57 10.5 9.1 13.7

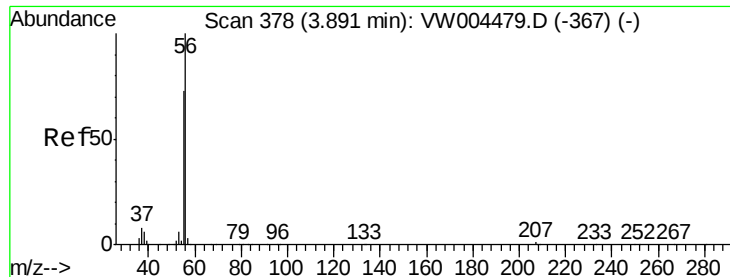


#12

1,1-Dichloroethene  
 Concen: 105.459 ug/l  
 RT: 4.04 min Scan# 402  
 Delta R.T. 0.01 min  
 Lab File: VW004481.D  
 Acq: 06 Aug 2018 20:27

Tgt Ion: 96 Resp: 841158  
 Ion Ratio Lower Upper  
 96 100  
 61 158.4 130.6 195.8  
 98 62.1 49.6 74.4





#13

Acrolein

Concen: 575.527 ug/l

RT: 3.89 min Scan# 378

Delta R.T. 0.00 min

Lab File: VW004481.D

Acq: 06 Aug 2018 20:27

Instrument :

MSVOA\_W

ClientSampleId :

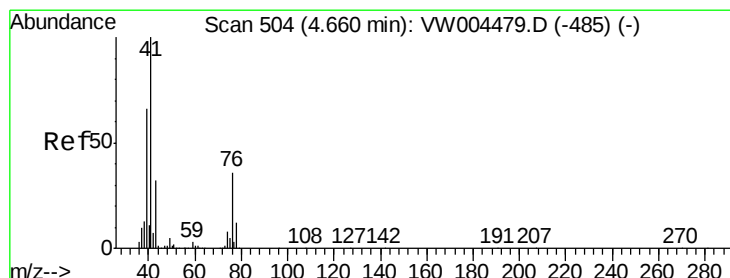
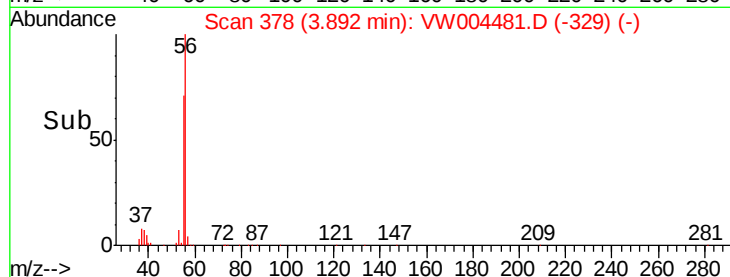
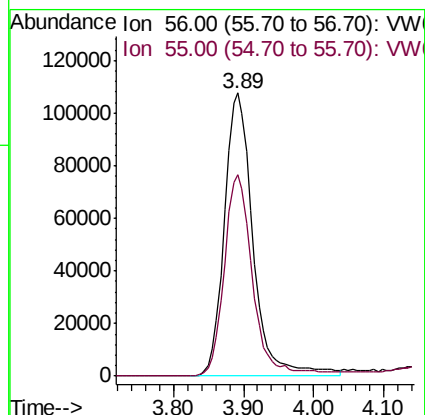
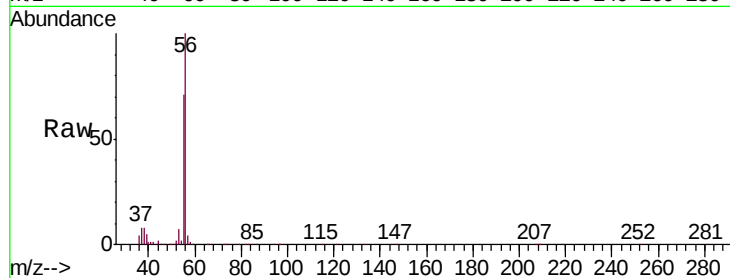
VSTDIC100

Tgt Ion: 56 Resp: 306834

Ion Ratio Lower Upper

56 100

55 71.0 56.7 85.1



#14

Allyl chloride

Concen: 106.099 ug/l

RT: 4.66 min Scan# 504

Delta R.T. 0.00 min

Lab File: VW004481.D

Acq: 06 Aug 2018 20:27

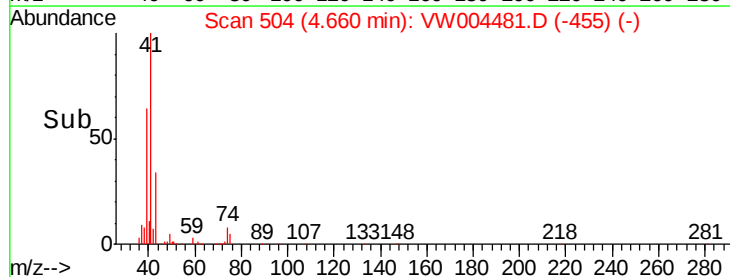
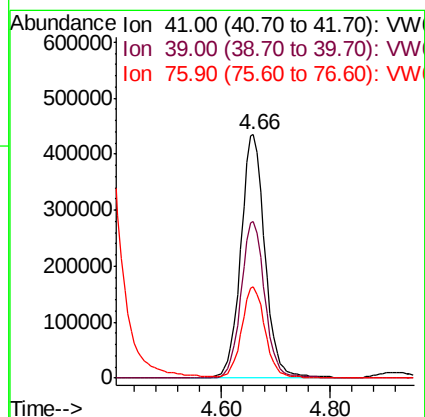
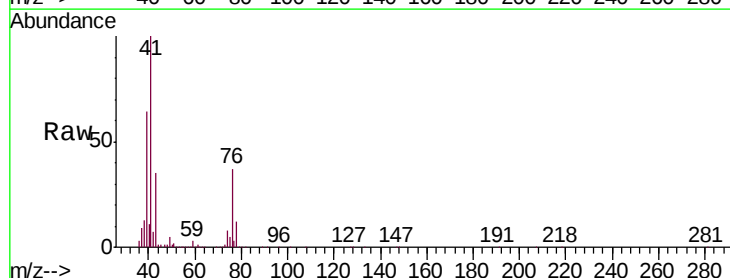
Tgt Ion: 41 Resp: 1340591

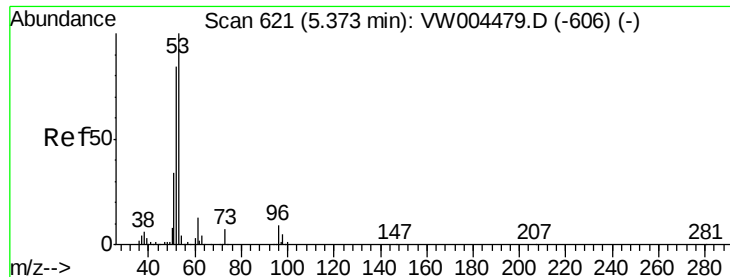
Ion Ratio Lower Upper

41 100

39 63.8 51.9 77.9

76 36.3 29.0 43.6





#15

Acrylonitrile

Concen: 595.887 ug/l

RT: 5.37 min Scan# 621

Delta R.T. 0.00 min

Lab File: VW004481.D

Acq: 06 Aug 2018 20:27

Instrument :

MSVOA\_W

ClientSampleId :

VSTDICC100

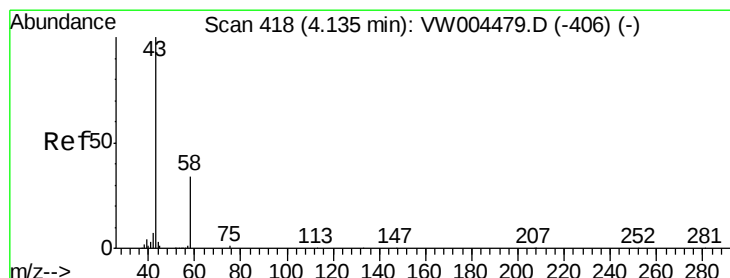
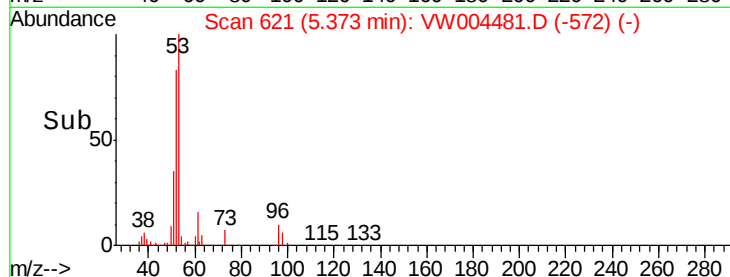
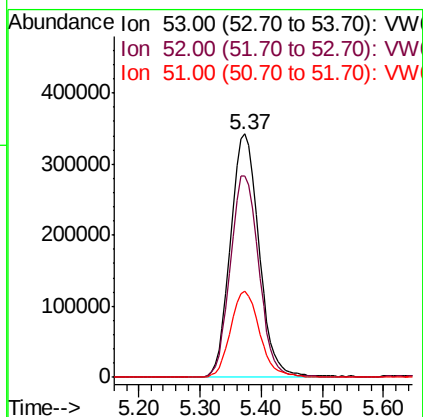
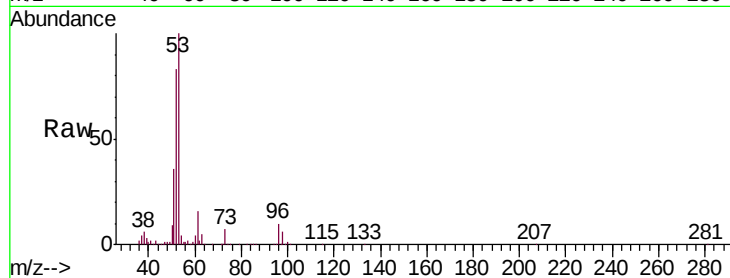
Tgt Ion: 53 Resp: 1102582

Ion Ratio Lower Upper

53 100

52 82.9 66.5 99.7

51 36.1 28.4 42.6



#16

Acetone

Concen: 548.613 ug/l

RT: 4.14 min Scan# 418

Delta R.T. 0.00 min

Lab File: VW004481.D

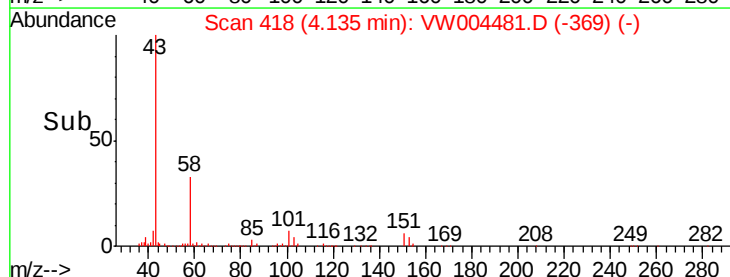
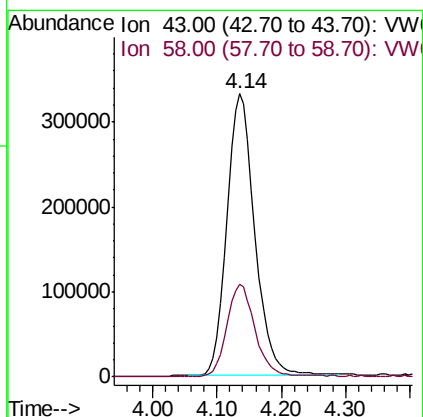
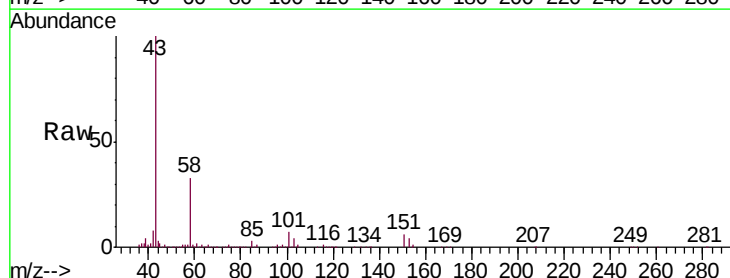
Acq: 06 Aug 2018 20:27

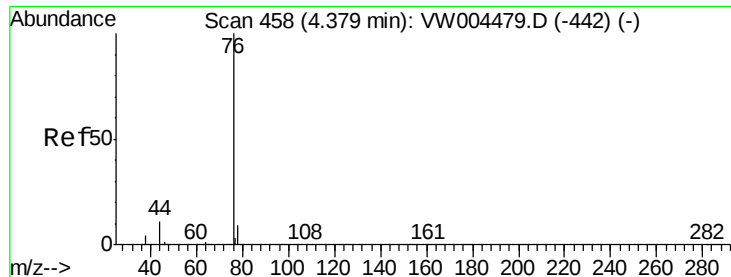
Tgt Ion: 43 Resp: 1007803

Ion Ratio Lower Upper

43 100

58 32.9 26.8 40.2

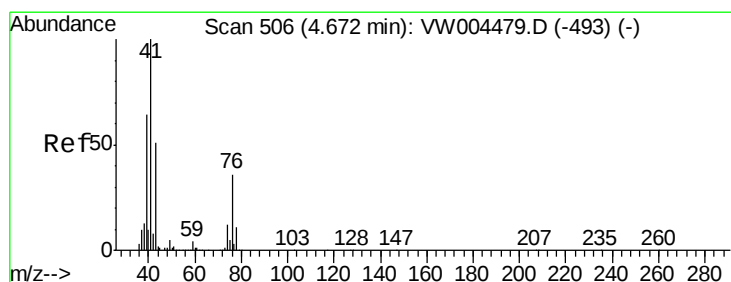
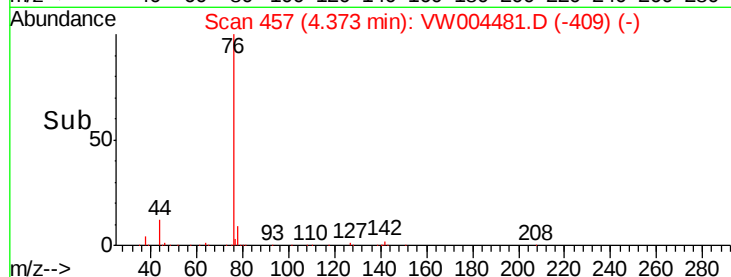
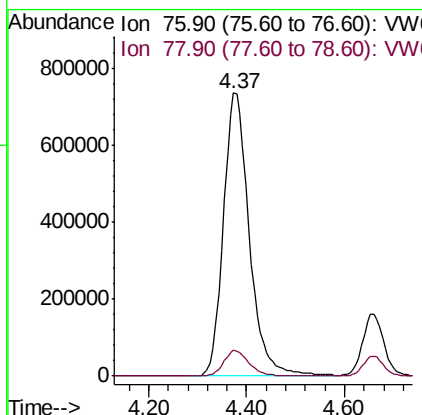
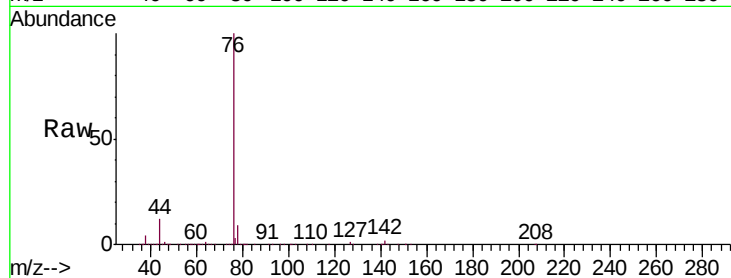




#17  
Carbon Disulfide  
Concen: 109.789 ug/l  
RT: 4.37 min Scan# 457  
Delta R.T. -0.01 min  
Lab File: VW004481.D  
Acq: 06 Aug 2018 20:27

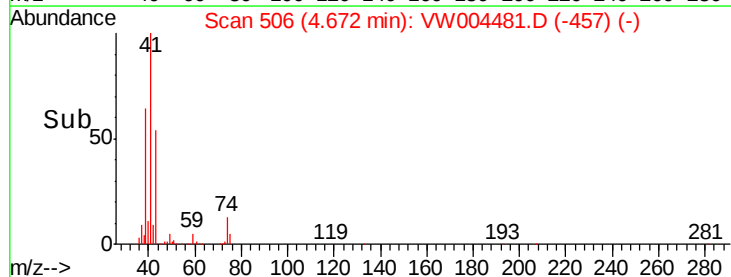
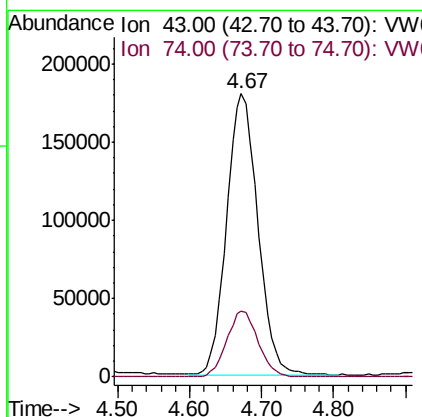
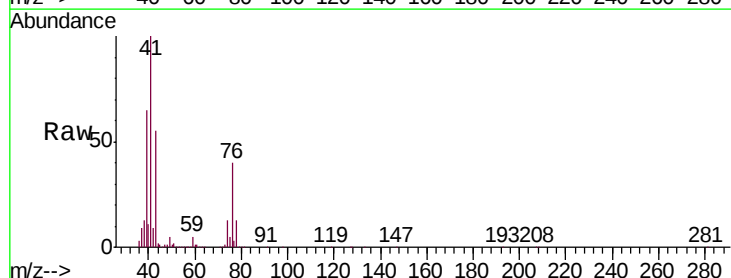
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDIC100

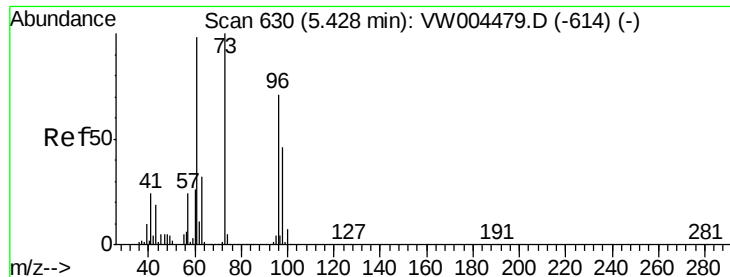
Tgt Ion: 76 Resp: 2709349  
Ion Ratio Lower Upper  
76 100  
78 9.1 7.0 10.4



#18  
Methyl Acetate  
Concen: 112.589 ug/l  
RT: 4.67 min Scan# 506  
Delta R.T. 0.00 min  
Lab File: VW004481.D  
Acq: 06 Aug 2018 20:27

Tgt Ion: 43 Resp: 540712  
Ion Ratio Lower Upper  
43 100  
74 23.6 19.1 28.7

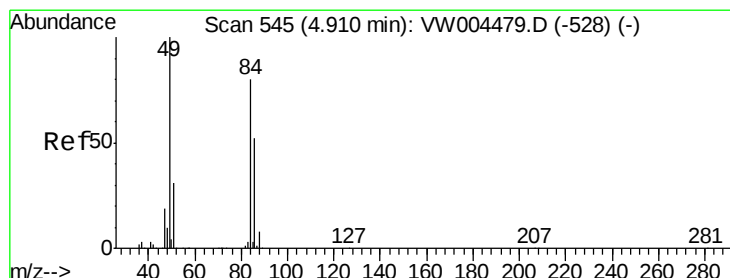
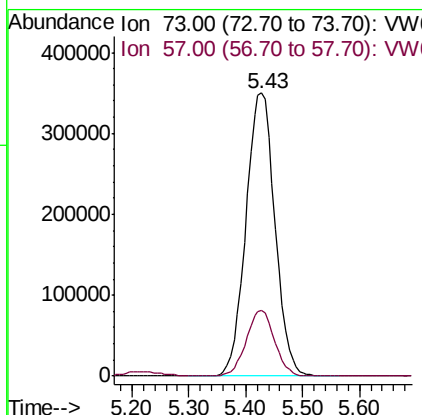
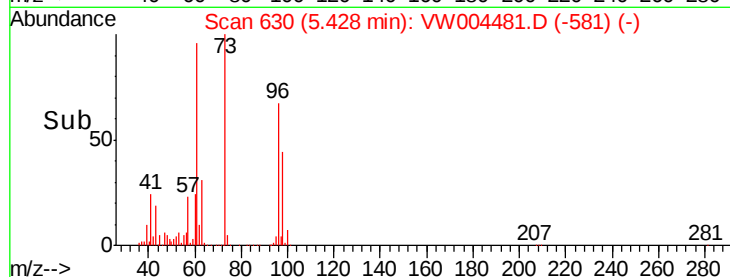
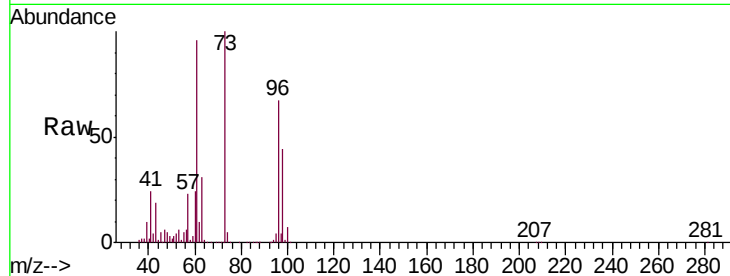




#19  
Methyl tert-butyl Ether  
Concen: 90.202 ug/l  
RT: 5.43 min Scan# 630  
Delta R.T. 0.00 min  
Lab File: VW004481.D  
Acq: 06 Aug 2018 20:27

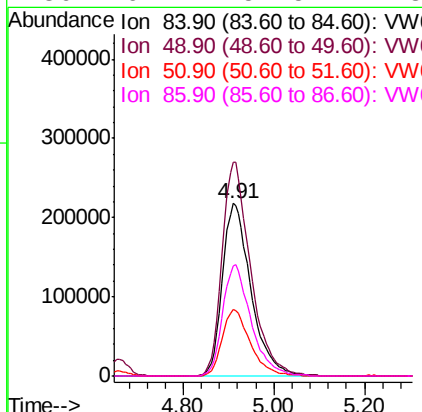
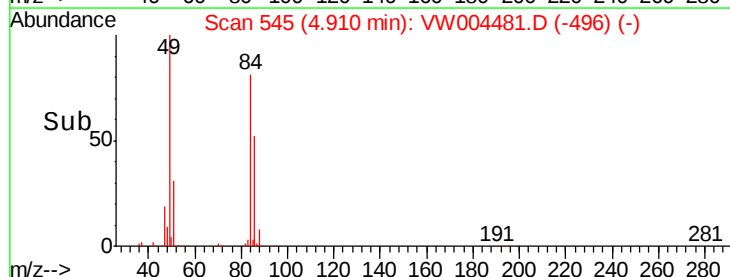
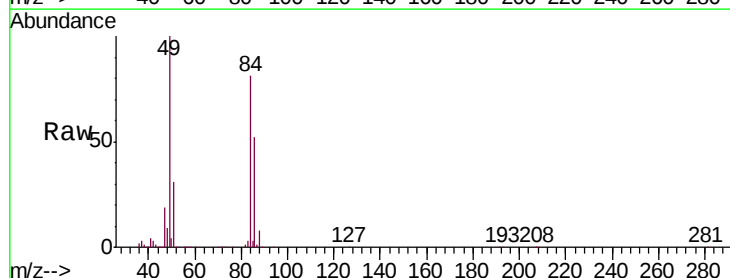
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDIC100

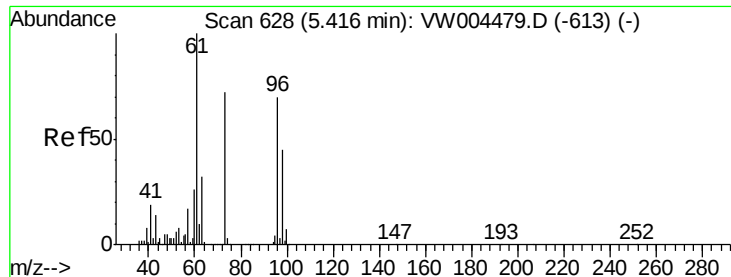
Tgt Ion: 73 Resp: 1237013  
Ion Ratio Lower Upper  
73 100  
57 23.1 19.6 29.4



#20  
Methylene Chloride  
Concen: 107.276 ug/l  
RT: 4.91 min Scan# 545  
Delta R.T. 0.00 min  
Lab File: VW004481.D  
Acq: 06 Aug 2018 20:27

Tgt Ion: 84 Resp: 952228  
Ion Ratio Lower Upper  
84 100  
49 123.8 99.6 149.4  
51 38.8 31.0 46.4  
86 64.1 51.5 77.3





#21

trans-1,2-Dichloroethene

Concen: 108.135 ug/l

RT: 5.42 min Scan# 628

Delta R.T. 0.00 min

Lab File: VW004481.D

Acq: 06 Aug 2018 20:27

Instrument :

MSVOA\_W

ClientSampleId :

VSTDICC100

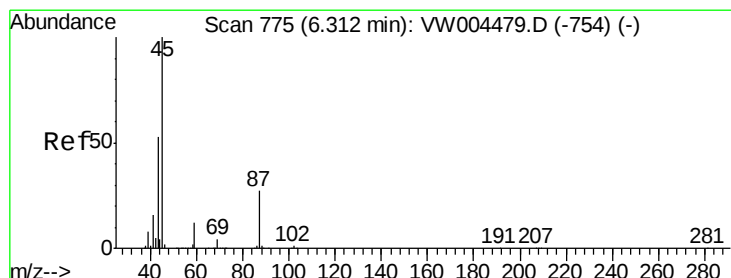
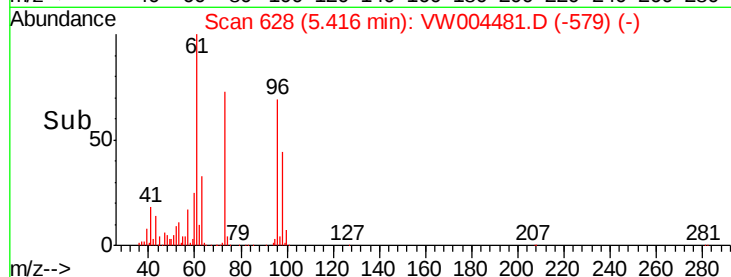
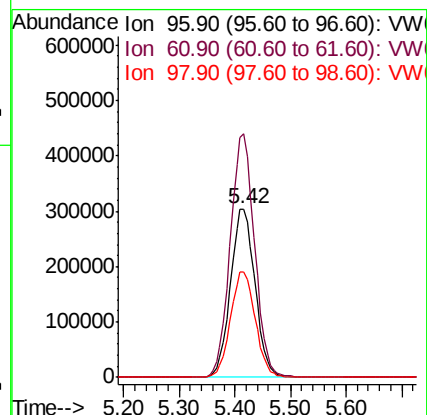
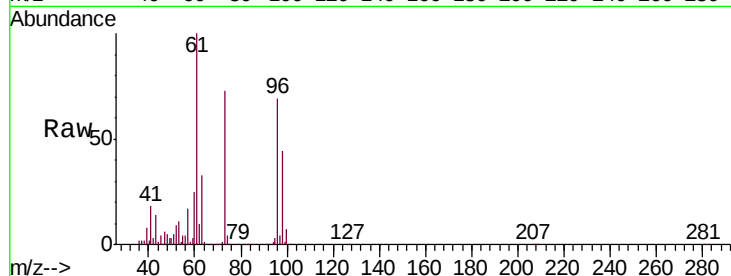
Tgt Ion: 96 Resp: 926387

Ion Ratio Lower Upper

96 100

61 144.3 114.1 171.1

98 62.8 51.4 77.2



#22

Diisopropyl ether

Concen: 114.511 ug/l

RT: 6.31 min Scan# 775

Delta R.T. 0.00 min

Lab File: VW004481.D

Acq: 06 Aug 2018 20:27

Tgt Ion: 45 Resp: 2775354

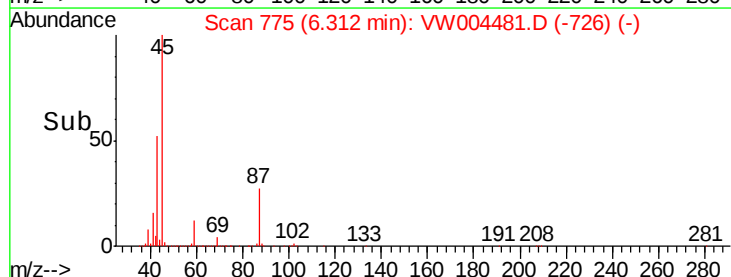
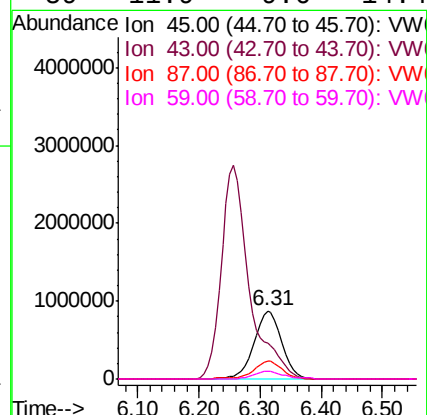
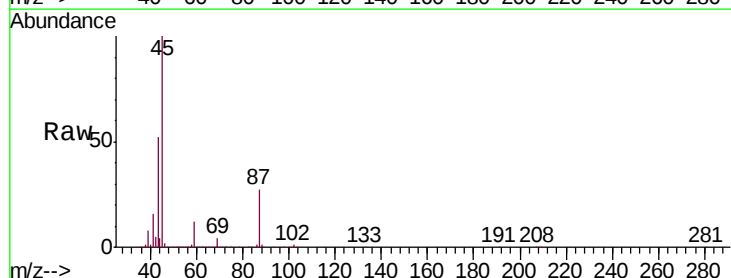
Ion Ratio Lower Upper

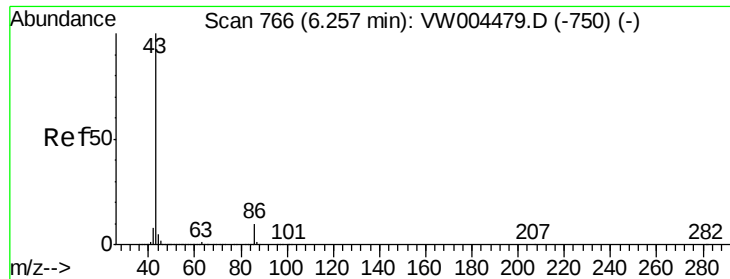
45 100

43 52.1 42.4 63.6

87 26.9 21.6 32.4

59 11.9 9.6 14.4

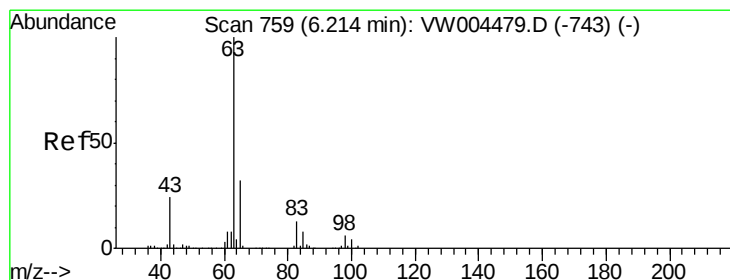
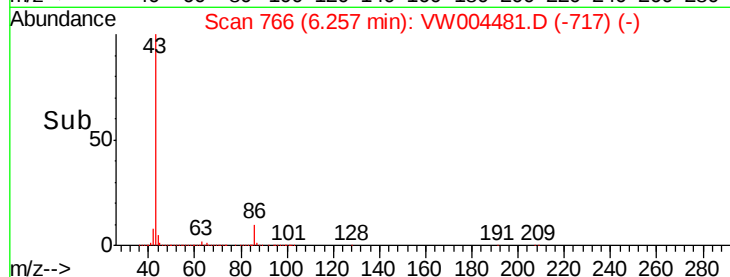
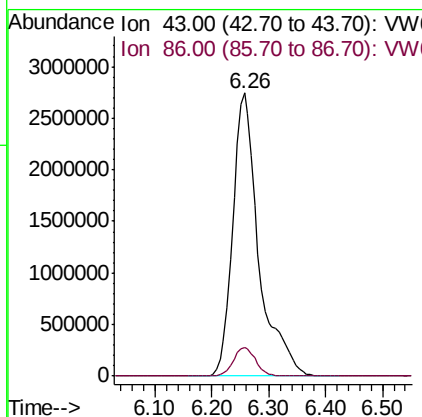
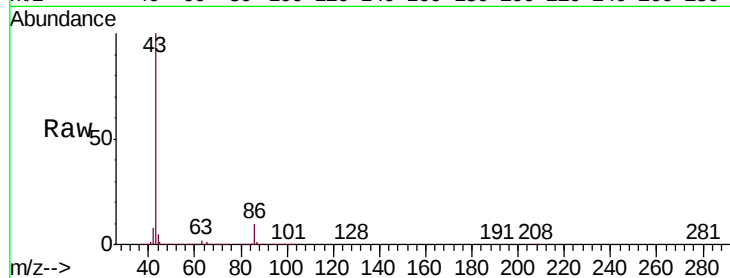




#23  
 Vinyl Acetate  
 Concen: 617.288 ug/l  
 RT: 6.26 min Scan# 766  
 Delta R.T. 0.00 min  
 Lab File: VW004481.D  
 Acq: 06 Aug 2018 20:27

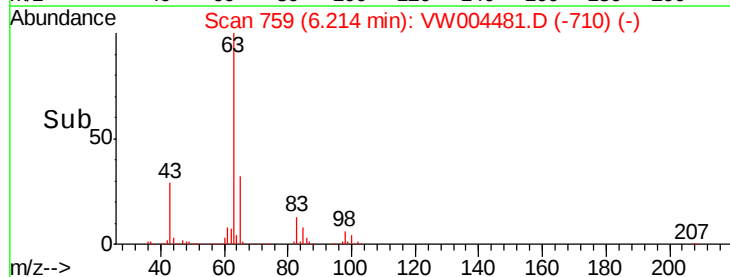
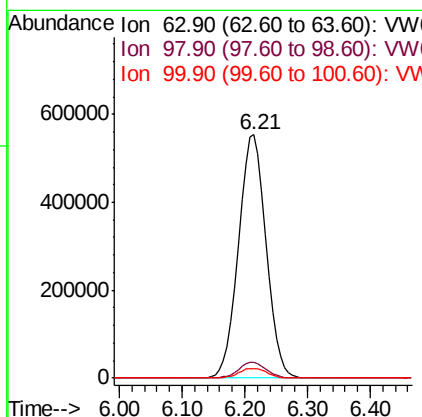
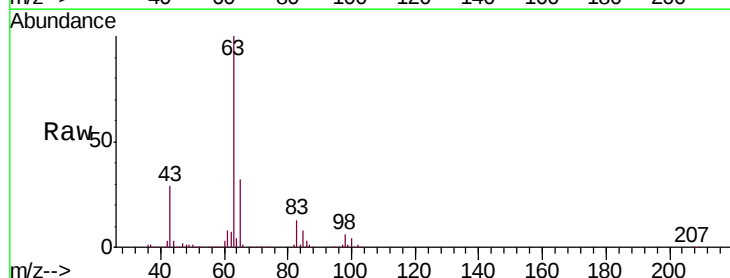
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDIC100

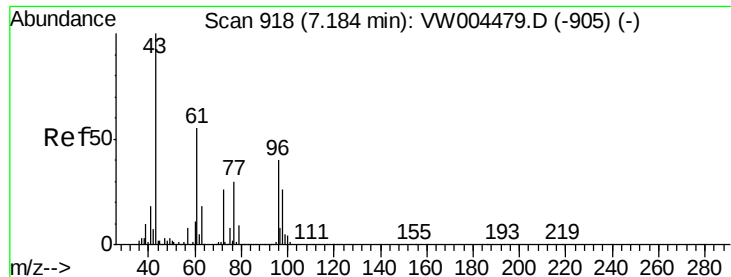
Tgt Ion: 43 Resp: 8756162  
 Ion Ratio Lower Upper  
 43 100  
 86 10.1 7.9 11.9



#24  
 1,1-Dichloroethane  
 Concen: 107.539 ug/l  
 RT: 6.21 min Scan# 759  
 Delta R.T. 0.00 min  
 Lab File: VW004481.D  
 Acq: 06 Aug 2018 20:27

Tgt Ion: 63 Resp: 1684260  
 Ion Ratio Lower Upper  
 63 100  
 98 6.4 3.1 9.3  
 100 4.0 2.1 6.5





#25

2-Butanone

Concen: 750.261 ug/l

RT: 7.18 min Scan# 917

Delta R.T. -0.01 min

Lab File: VW004481.D

Acq: 06 Aug 2018 20:27

Instrument :

MSVOA\_W

ClientSampleId :

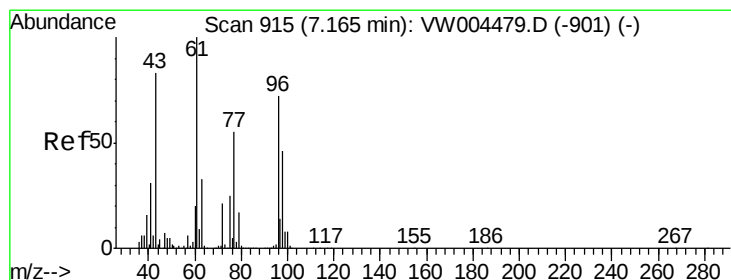
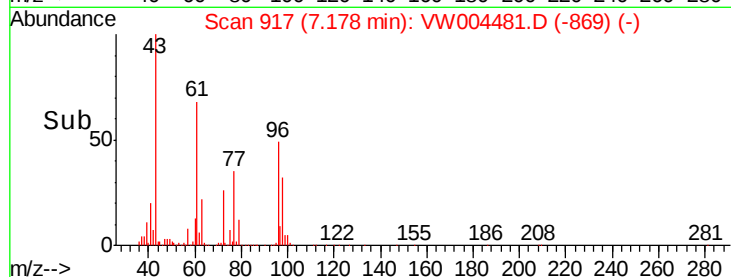
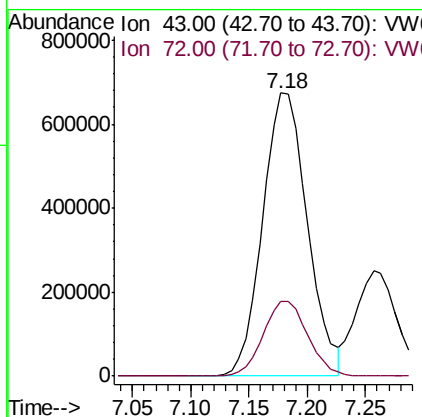
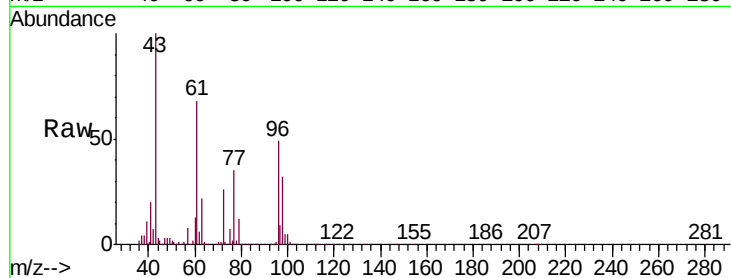
VSTDIC100

Tgt Ion: 43 Resp: 1791516

Ion Ratio Lower Upper

43 100

72 26.3 21.0 31.6



#26

2,2-Dichloropropane

Concen: 92.679 ug/l

RT: 7.17 min Scan# 915

Delta R.T. 0.00 min

Lab File: VW004481.D

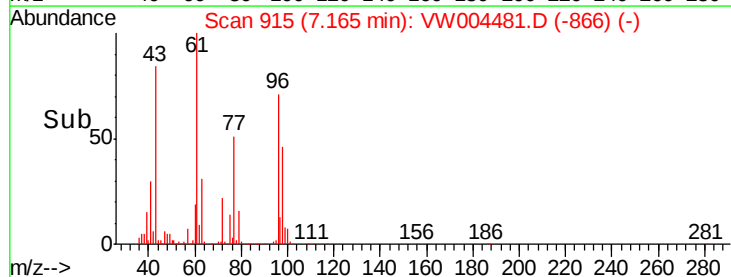
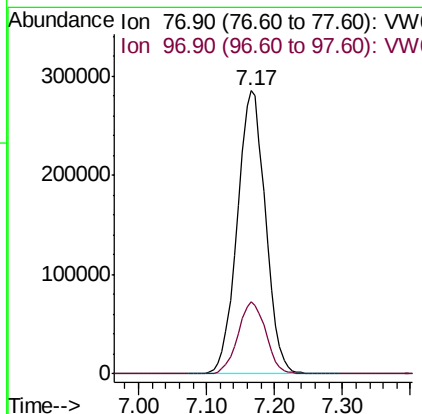
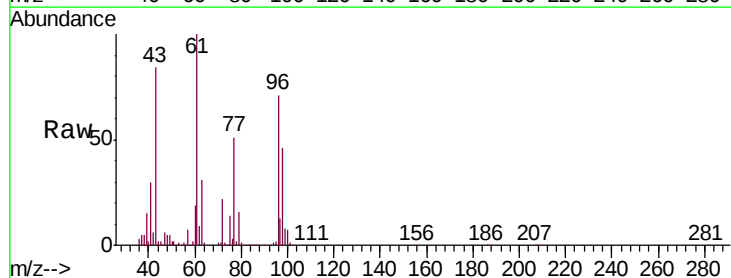
Acq: 06 Aug 2018 20:27

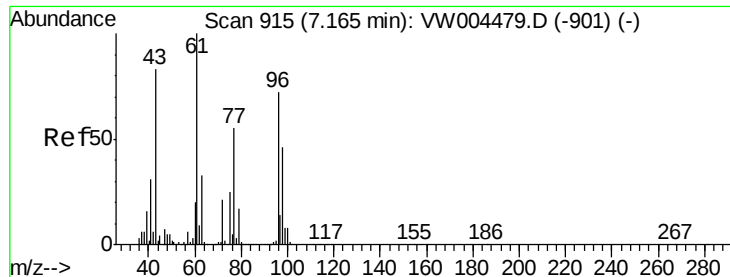
Tgt Ion: 77 Resp: 819929

Ion Ratio Lower Upper

77 100

97 25.1 12.5 37.5



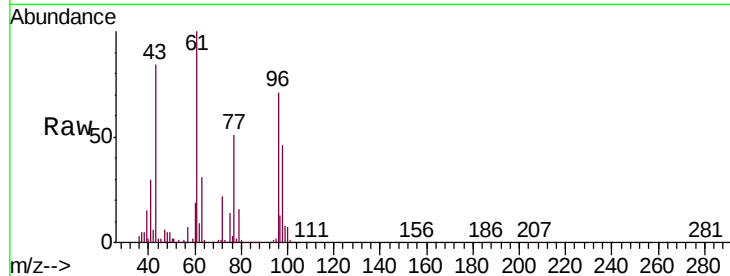


#27

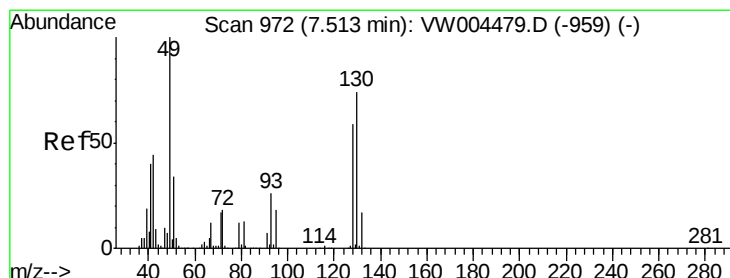
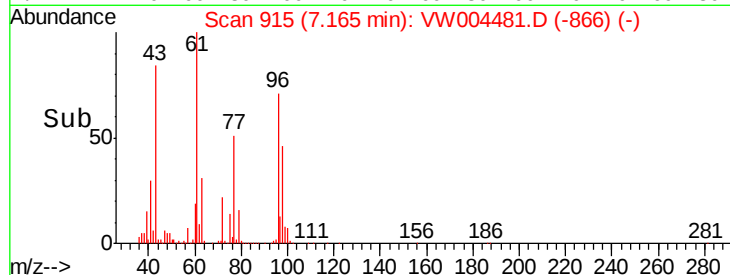
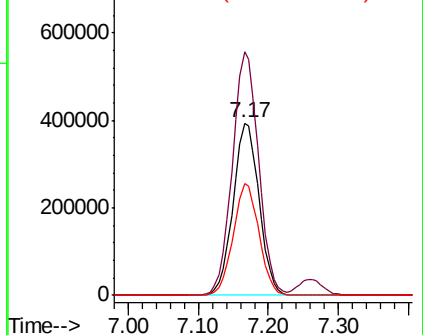
cis-1,2-Dichloroethene  
 Concen: 115.646 ug/l  
 RT: 7.17 min Scan# 915  
 Delta R.T. 0.00 min  
 Lab File: VW004481.D  
 Acq: 06 Aug 2018 20:27

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDIC100

Tgt Ion: 96 Resp: 1014096  
 Ion Ratio Lower Upper  
 96 100  
 61 142.6 0.0 285.0  
 98 64.4 0.0 128.6



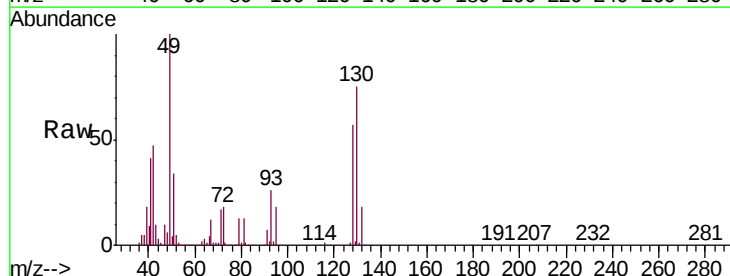
Abundance Ion 95.90 (95.60 to 96.60): VW  
 Ion 60.90 (60.60 to 61.60): VW  
 Ion 97.90 (97.60 to 98.60): VW



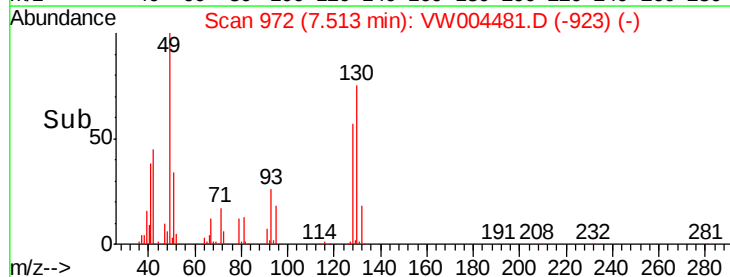
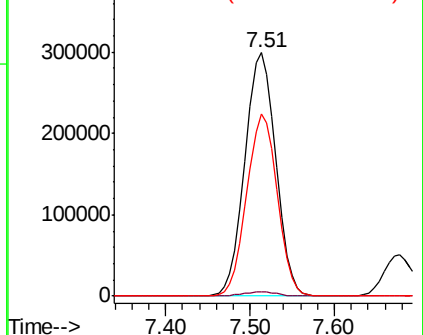
#28

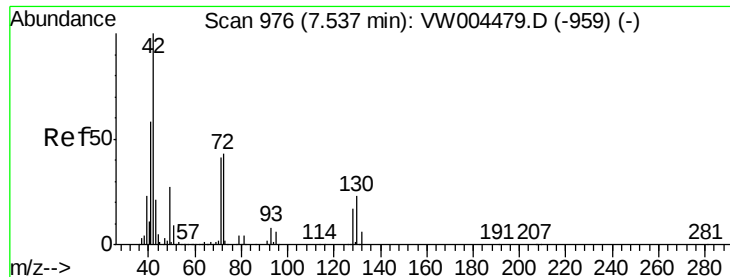
Bromochloromethane  
 Concen: 130.806 ug/l  
 RT: 7.51 min Scan# 972  
 Delta R.T. 0.00 min  
 Lab File: VW004481.D  
 Acq: 06 Aug 2018 20:27

Tgt Ion: 49 Resp: 745274  
 Ion Ratio Lower Upper  
 49 100  
 129 1.9 0.0 4.0  
 130 73.9 58.8 88.2



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

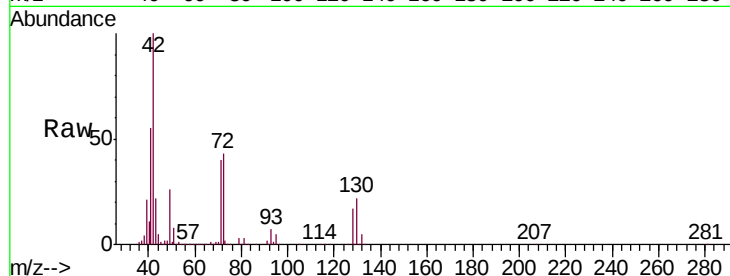




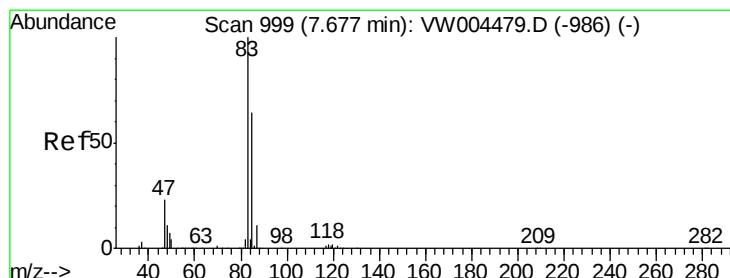
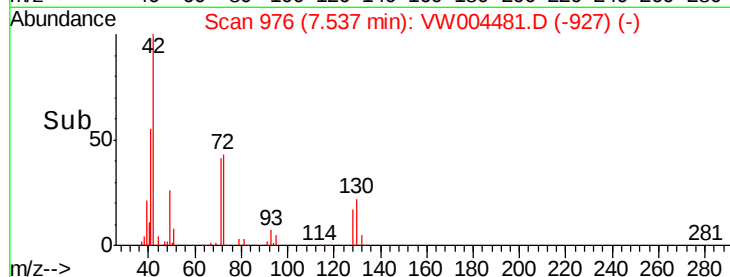
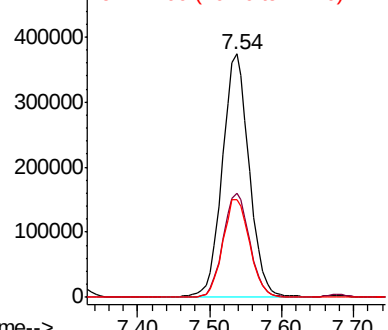
#29  
Tetrahydrofuran  
Concen: 658.042 ug/l  
RT: 7.54 min Scan# 976  
Delta R.T. 0.00 min  
Lab File: VW004481.D  
Acq: 06 Aug 2018 20:27

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDICC100

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 42.6  | 34.1  | 51.1  |
| 71      | 40.5  | 32.5  | 48.7  |

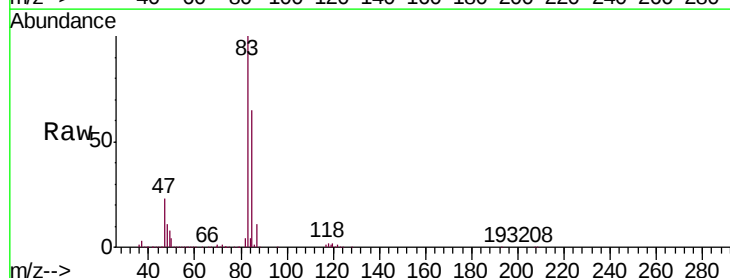


Abundance Ion 42.00 (41.70 to 42.70): VW  
Ion 72.00 (71.70 to 72.70): VW  
Ion 71.00 (70.70 to 71.70): VW

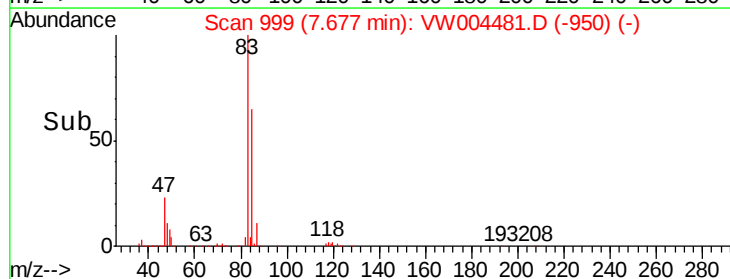
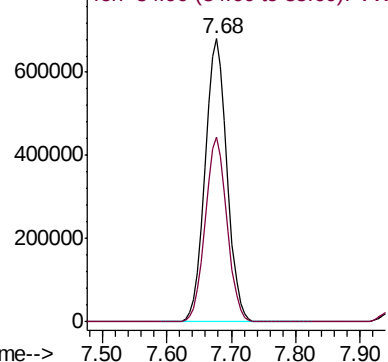


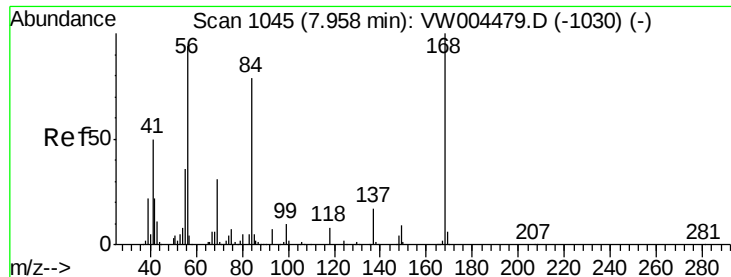
#30  
Chloroform  
Concen: 108.666 ug/l  
RT: 7.68 min Scan# 999  
Delta R.T. 0.00 min  
Lab File: VW004481.D  
Acq: 06 Aug 2018 20:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 65.1  | 51.3  | 76.9  |



Abundance Ion 82.90 (82.60 to 83.60): VW  
Ion 84.90 (84.60 to 85.60): VW

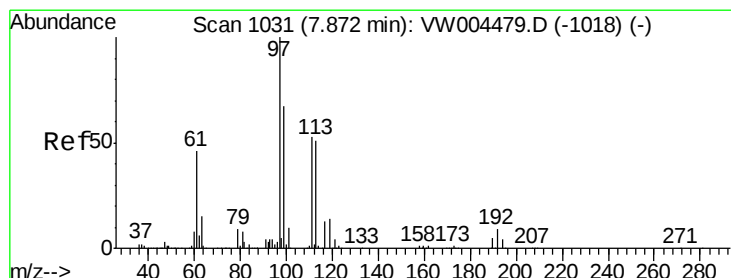
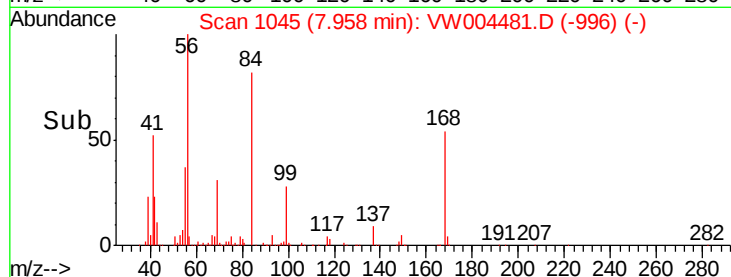
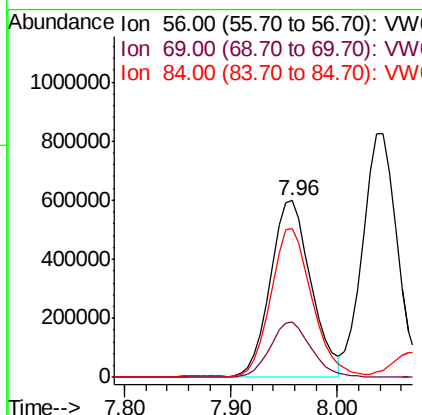
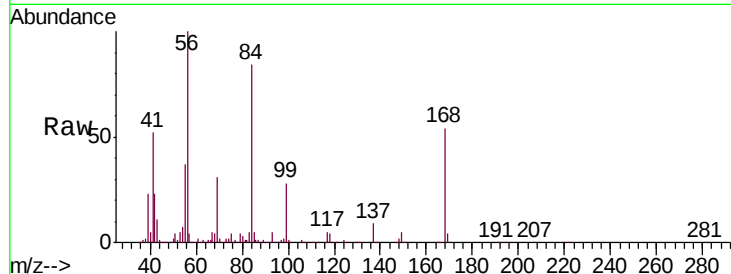




#31  
Cyclohexane  
Concen: 114.578 ug/l  
RT: 7.96 min Scan# 1045  
Delta R.T. 0.00 min  
Lab File: VW004481.D  
Acq: 06 Aug 2018 20:27

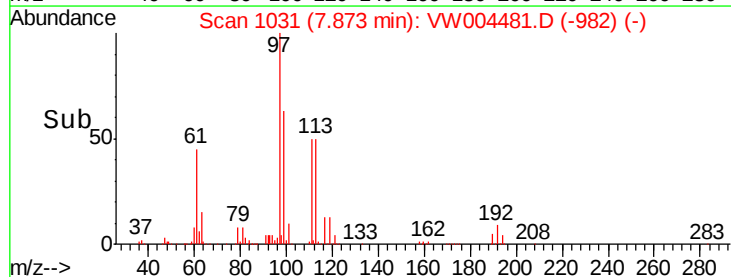
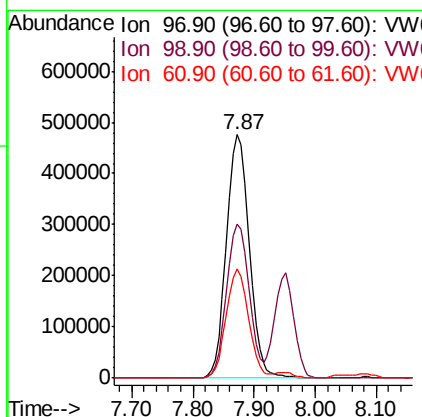
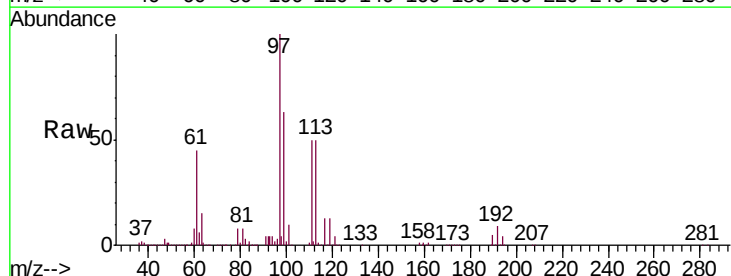
Instrument :  
MSVOA\_W  
ClientSampled :  
VSTDIC100

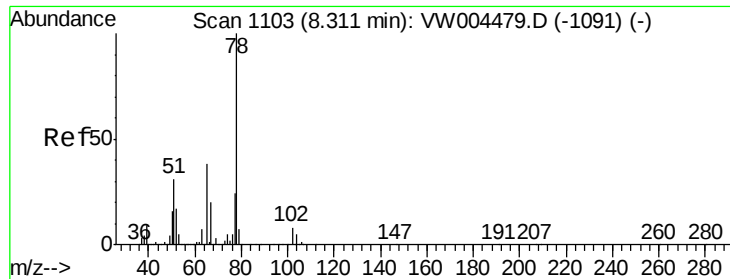
Tgt Ion: 56 Resp: 1592609  
Ion Ratio Lower Upper  
56 100  
69 31.1 26.4 39.6  
84 83.7 66.9 100.3



#32  
1,1,1-Trichloroethane  
Concen: 101.376 ug/l  
RT: 7.87 min Scan# 1031  
Delta R.T. 0.00 min  
Lab File: VW004481.D  
Acq: 06 Aug 2018 20:27

Tgt Ion: 97 Resp: 1224791  
Ion Ratio Lower Upper  
97 100  
99 63.1 51.6 77.4  
61 44.1 35.7 53.5

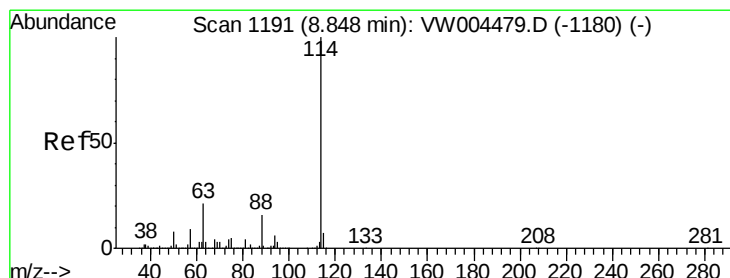
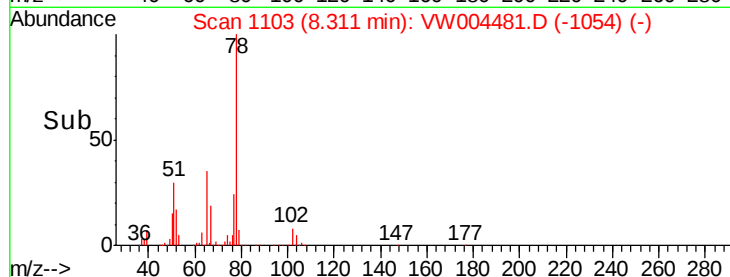
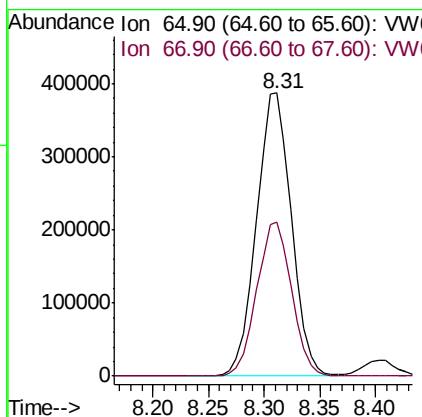
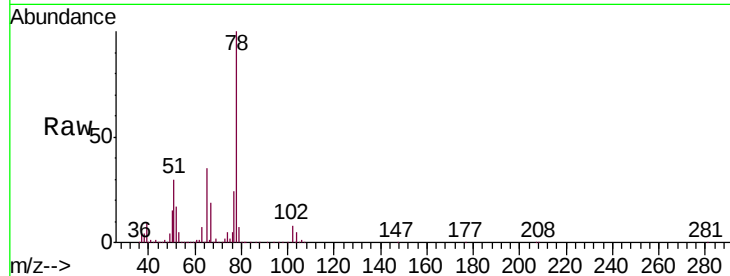




#33  
 1,2-Dichloroethane-d4  
 Concen: 105.045 ug/l  
 RT: 8.31 min Scan# 1103  
 Delta R.T. 0.00 min  
 Lab File: VW004481.D  
 Acq: 06 Aug 2018 20:27

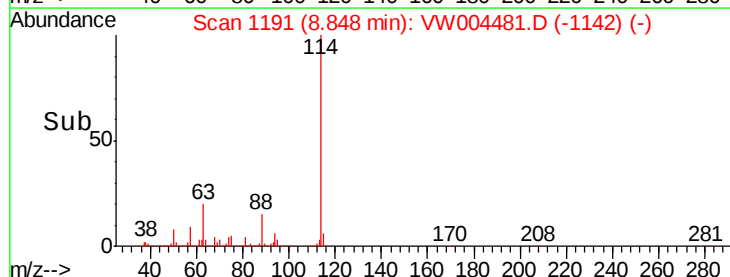
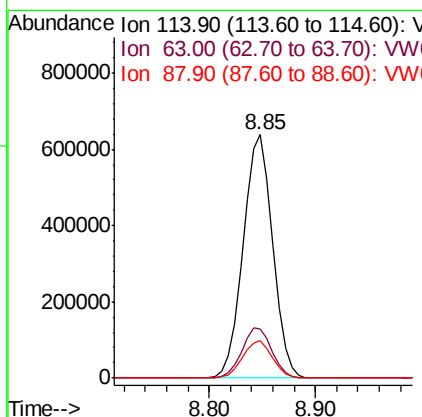
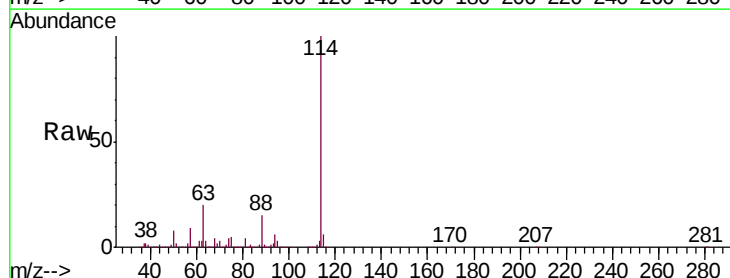
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDIC100

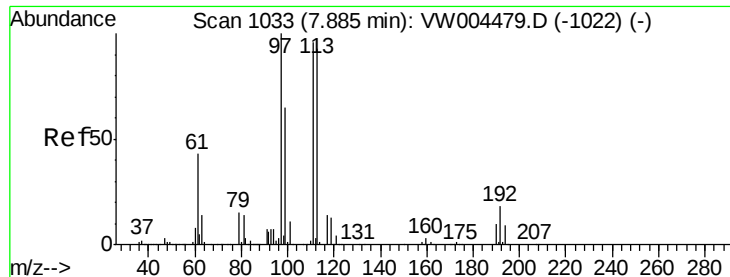
Tgt Ion: 65 Resp: 845413  
 Ion Ratio Lower Upper  
 65 100  
 67 54.7 0.0 109.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.85 min Scan# 1191  
 Delta R.T. 0.00 min  
 Lab File: VW004481.D  
 Acq: 06 Aug 2018 20:27

Tgt Ion: 114 Resp: 1242635  
 Ion Ratio Lower Upper  
 114 100  
 63 20.3 0.0 42.4  
 88 15.5 0.0 31.2

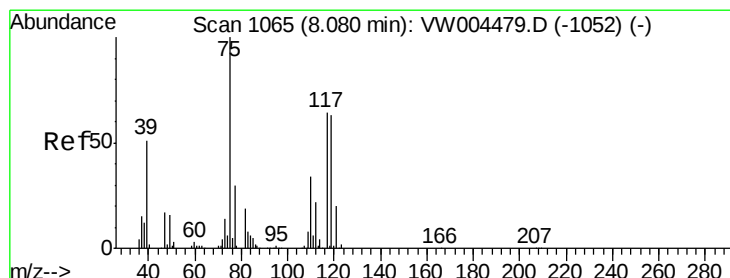
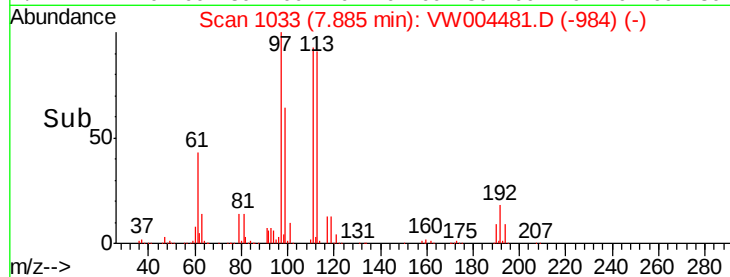
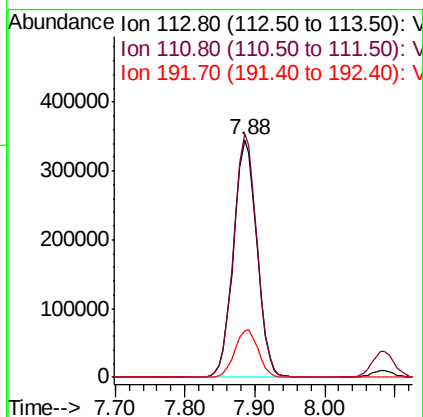
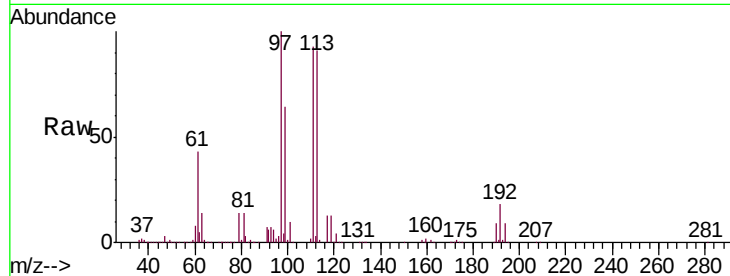




#35  
 Dibromofluoromethane  
 Concen: 101.166 ug/l  
 RT: 7.88 min Scan# 1033  
 Delta R.T. 0.00 min  
 Lab File: VW004481.D  
 Acq: 06 Aug 2018 20:27

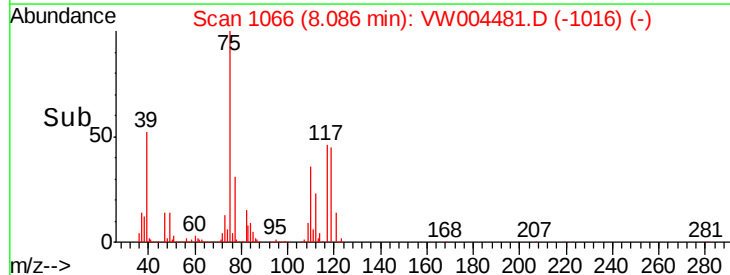
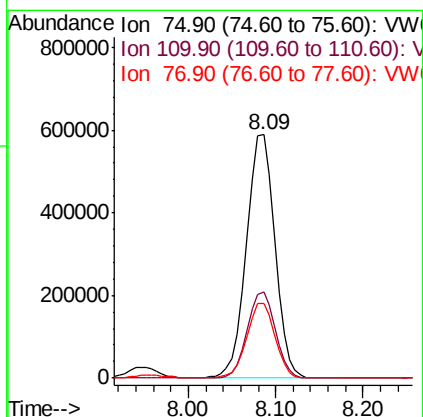
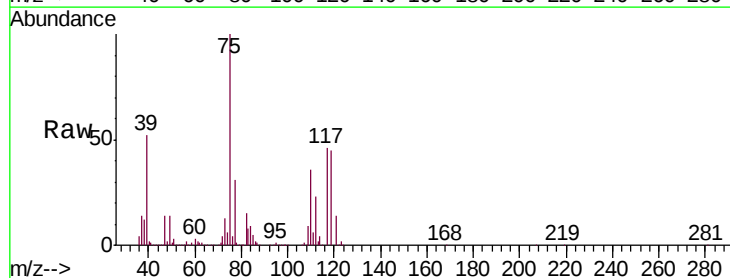
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDIC100

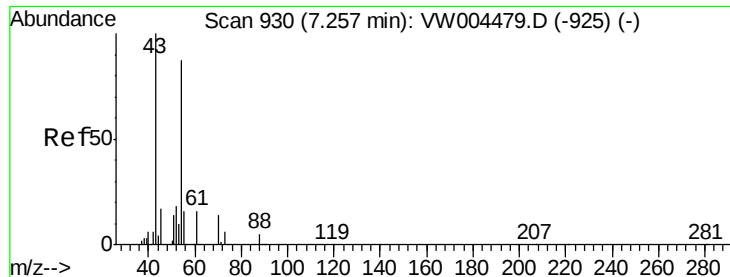
Tgt Ion: 113 Resp: 801484  
 Ion Ratio Lower Upper  
 113 100  
 111 102.2 82.9 124.3  
 192 20.2 15.8 23.6



#36  
 1,1-Dichloropropene  
 Concen: 106.073 ug/l  
 RT: 8.09 min Scan# 1066  
 Delta R.T. 0.01 min  
 Lab File: VW004481.D  
 Acq: 06 Aug 2018 20:27

Tgt Ion: 75 Resp: 1333665  
 Ion Ratio Lower Upper  
 75 100  
 110 35.0 17.4 52.2  
 77 30.7 24.7 37.1

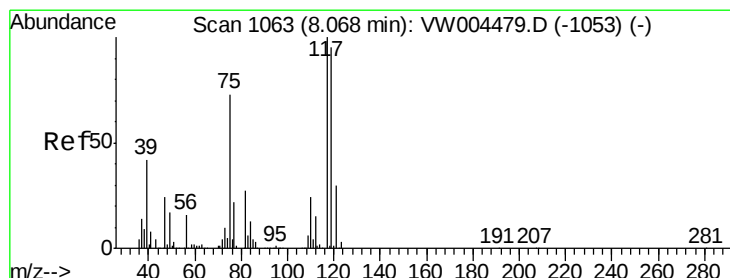
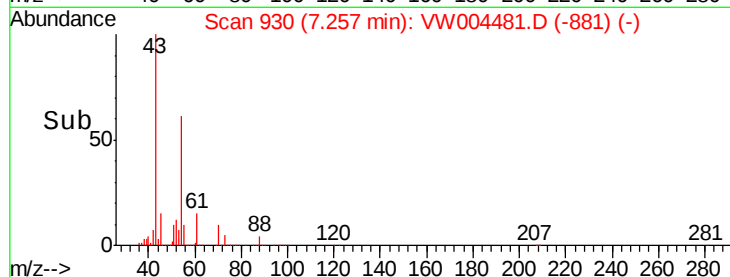
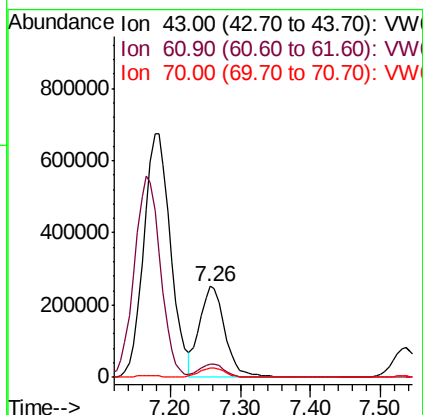
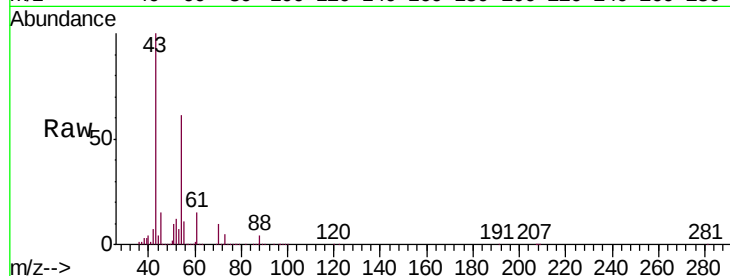




#37  
 Ethyl Acetate  
 Concen: 121.508 ug/l  
 RT: 7.26 min Scan# 930  
 Delta R.T. 0.00 min  
 Lab File: VW004481.D  
 Acq: 06 Aug 2018 20:27

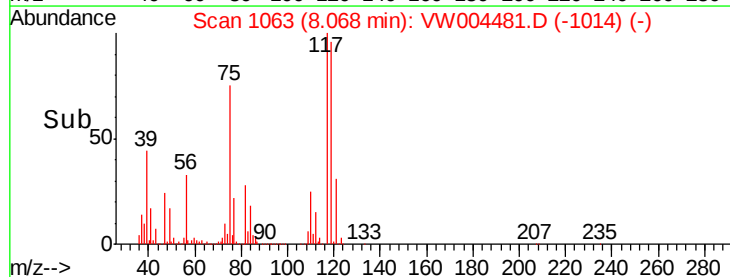
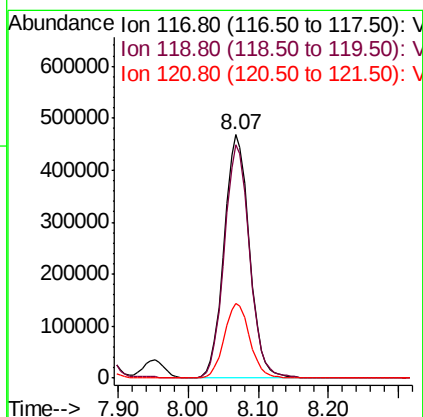
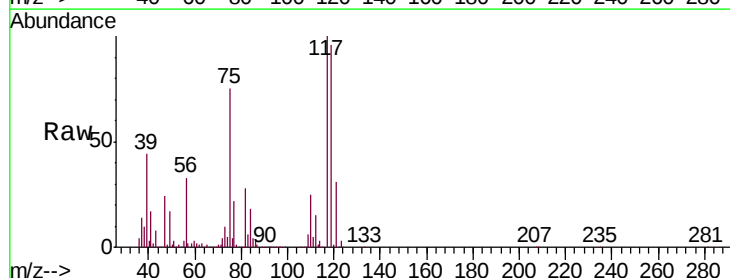
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDIC100

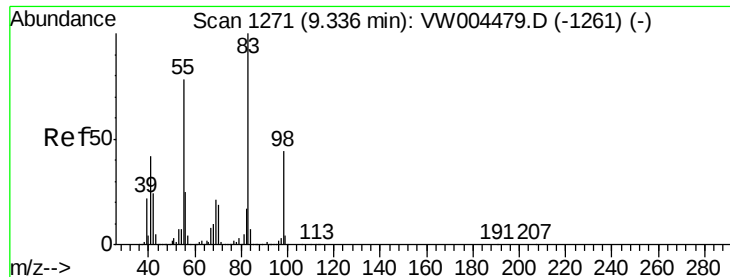
Tgt Ion: 43 Resp: 633292  
 Ion Ratio Lower Upper  
 43 100  
 61 14.5 11.9 17.9  
 70 10.5 8.2 12.4



#38  
 Carbon Tetrachloride  
 Concen: 96.138 ug/l  
 RT: 8.07 min Scan# 1063  
 Delta R.T. 0.00 min  
 Lab File: VW004481.D  
 Acq: 06 Aug 2018 20:27

Tgt Ion: 117 Resp: 1179272  
 Ion Ratio Lower Upper  
 117 100  
 119 95.9 76.1 114.1  
 121 30.6 24.2 36.4

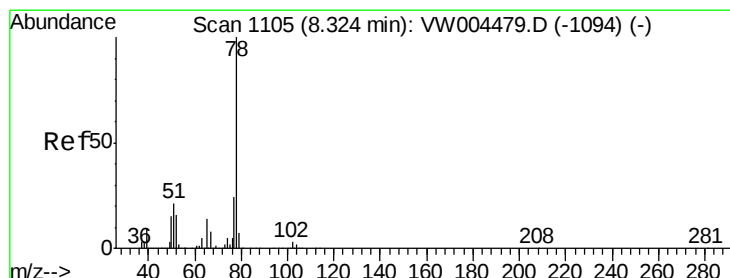
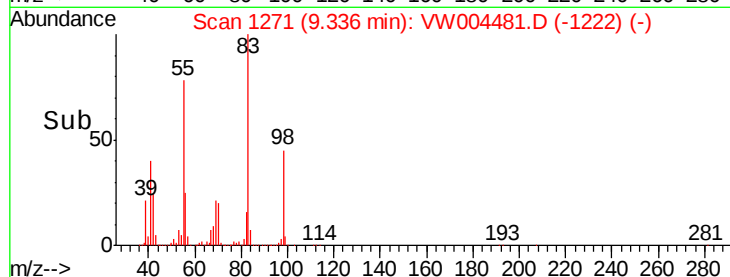
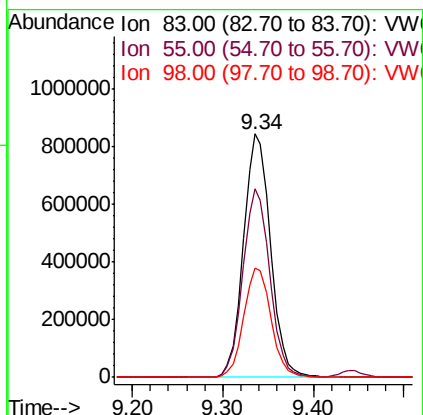
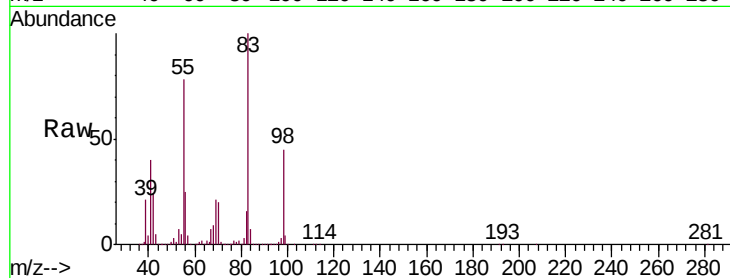




#39  
Methylcyclohexane  
Concen: 113.911 ug/l  
RT: 9.34 min Scan# 1271  
Delta R.T. 0.00 min  
Lab File: VW004481.D  
Acq: 06 Aug 2018 20:27

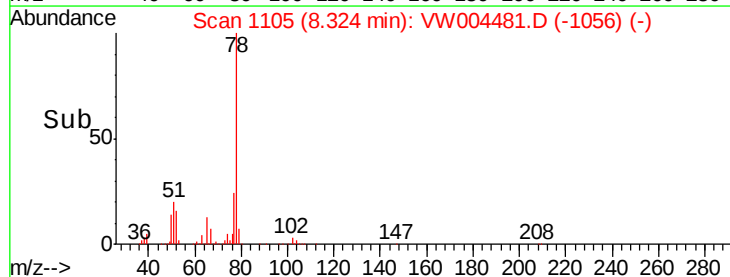
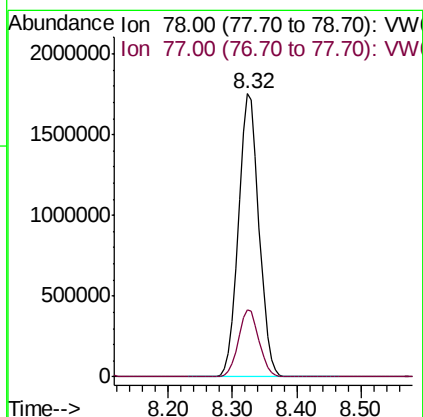
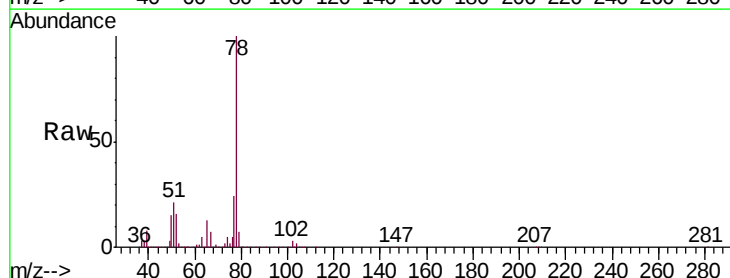
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MSVOA\_W  
ClientSampleId :  
VSTDICC100

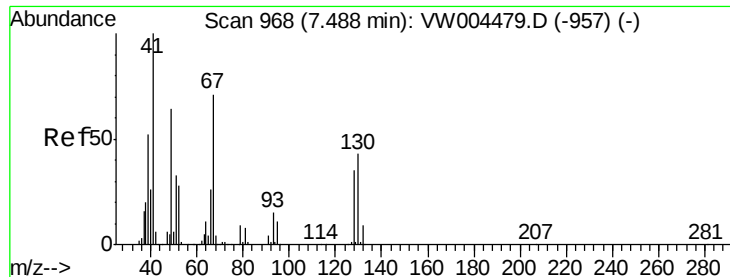
Tgt Ion: 83 Resp: 1740248  
Ion Ratio Lower Upper  
83 100  
55 77.6 62.5 93.7  
98 45.0 35.4 53.2



#40  
Benzene  
Concen: 108.665 ug/l  
RT: 8.32 min Scan# 1105  
Delta R.T. 0.00 min  
Lab File: VW004481.D  
Acq: 06 Aug 2018 20:27

Tgt Ion: 78 Resp: 3860907  
Ion Ratio Lower Upper  
78 100  
77 23.8 19.0 28.6

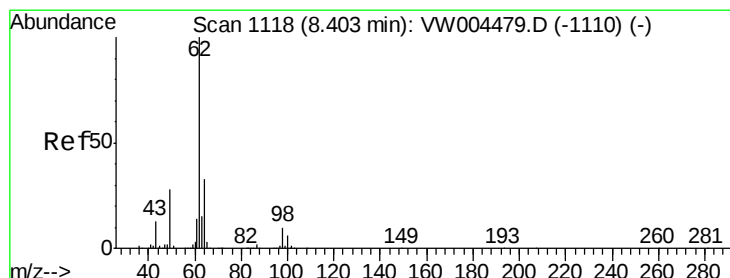
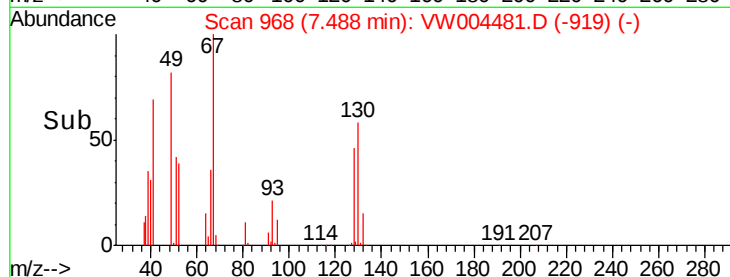
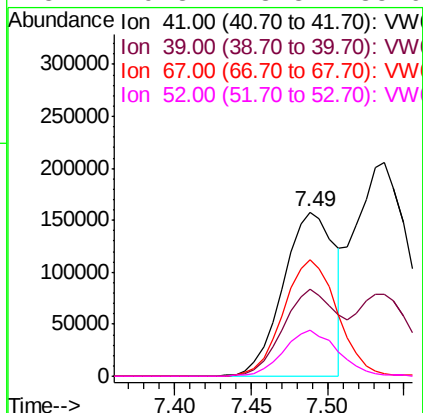
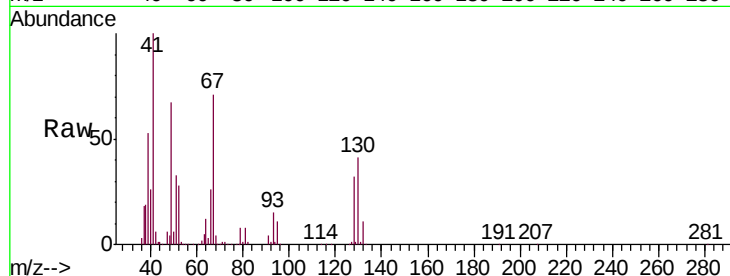




#41  
Methacrylonitrile  
Concen: 124.374 ug/l  
RT: 7.49 min Scan# 968  
Delta R.T. 0.00 min  
Lab File: VW004481.D  
Acq: 06 Aug 2018 20:27

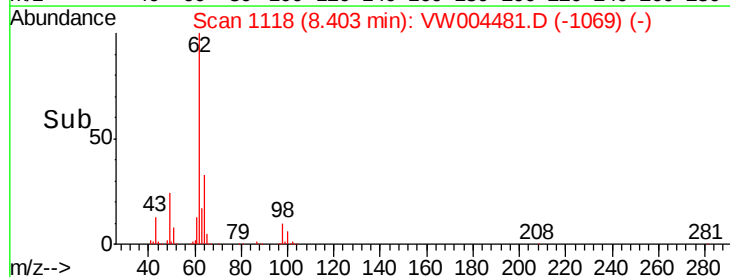
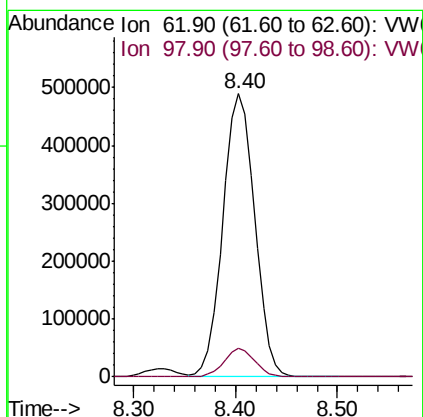
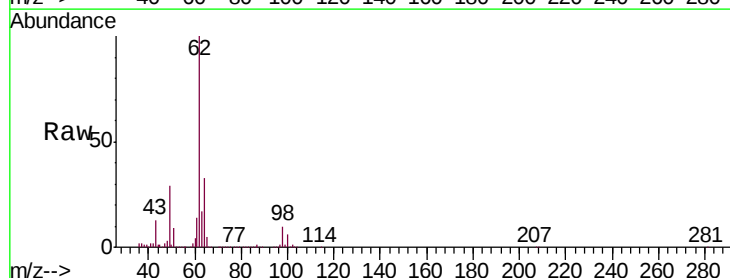
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDIC100

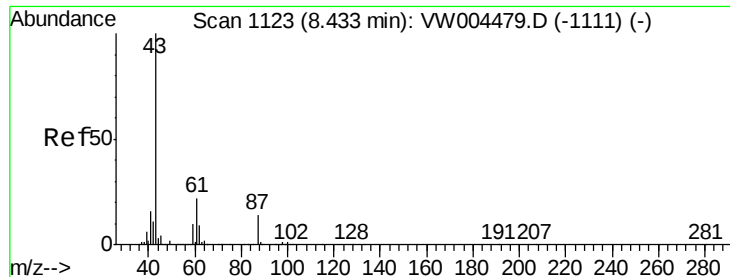
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 41    | Resp: | 370929 |
| Ion      | Ratio | Lower | Upper  |
| 41       | 100   |       |        |
| 39       | 56.9  | 46.2  | 69.2   |
| 67       | 74.4  | 60.8  | 91.2   |
| 52       | 29.3  | 23.8  | 35.6   |



#42  
1,2-Dichloroethane  
Concen: 104.768 ug/l  
RT: 8.40 min Scan# 1118  
Delta R.T. 0.00 min  
Lab File: VW004481.D  
Acq: 06 Aug 2018 20:27

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 62    | Resp: | 1058514 |
| Ion      | Ratio | Lower | Upper   |
| 62       | 100   |       |         |
| 98       | 9.8   | 0.0   | 19.6    |





#43

Isopropyl Acetate

Concen: 126.322 ug/l

RT: 8.43 min Scan# 1123

Delta R.T. 0.00 min

Lab File: VW004481.D

Acq: 06 Aug 2018 20:27

Instrument :

MSVOA\_W

ClientSampleId :

VSTDIC100

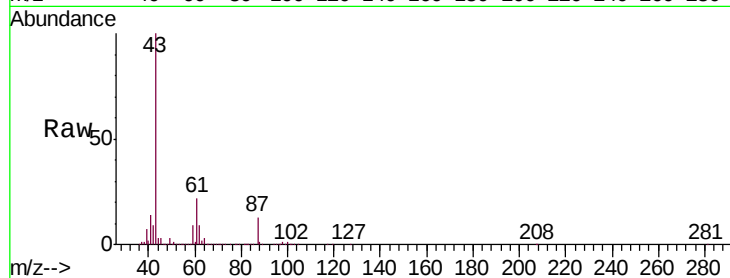
Tgt Ion: 43 Resp: 1182210

Ion Ratio Lower Upper

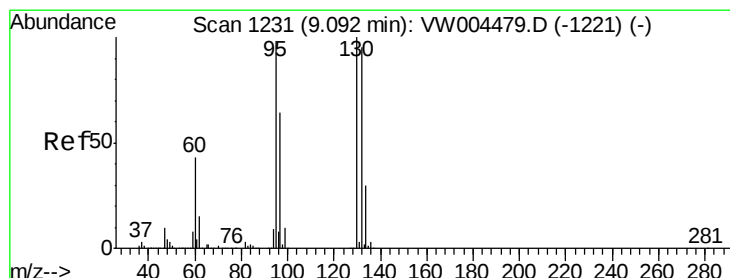
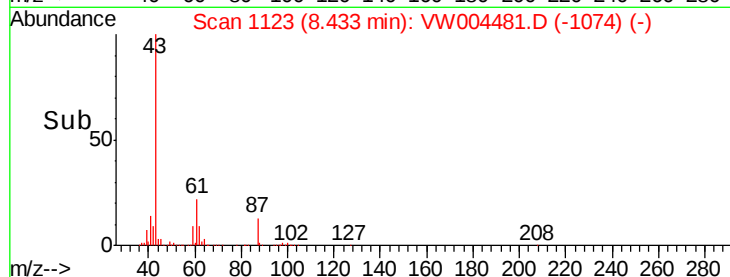
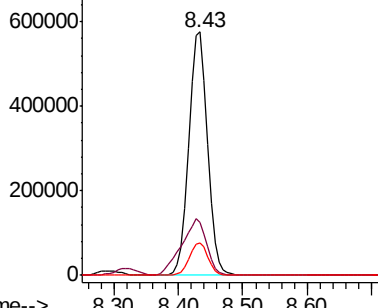
43 100

61 31.0 25.2 37.8

87 13.2 10.6 16.0



Abundance Ion 43.00 (42.70 to 43.70): VW  
Ion 61.00 (60.70 to 61.70): VW  
Ion 87.00 (86.70 to 87.70): VW



#44

Trichloroethene

Concen: 100.810 ug/l

RT: 9.09 min Scan# 1231

Delta R.T. 0.00 min

Lab File: VW004481.D

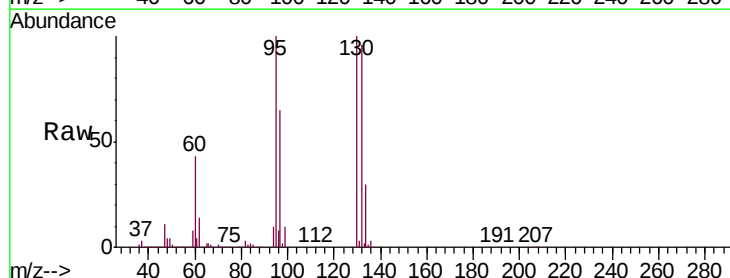
Acq: 06 Aug 2018 20:27

Tgt Ion: 130 Resp: 956582

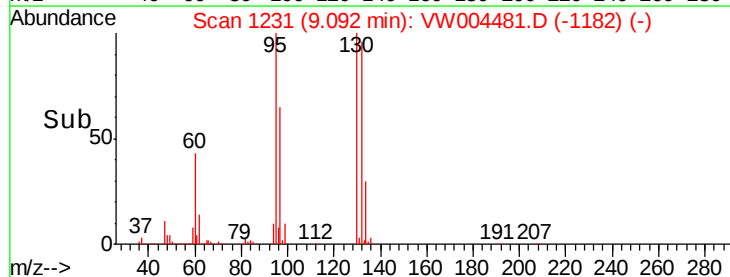
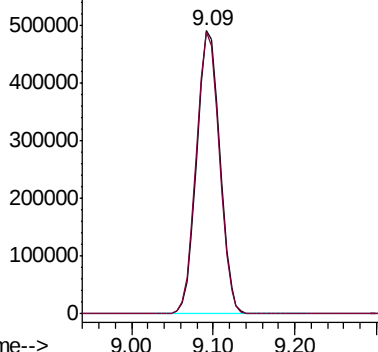
Ion Ratio Lower Upper

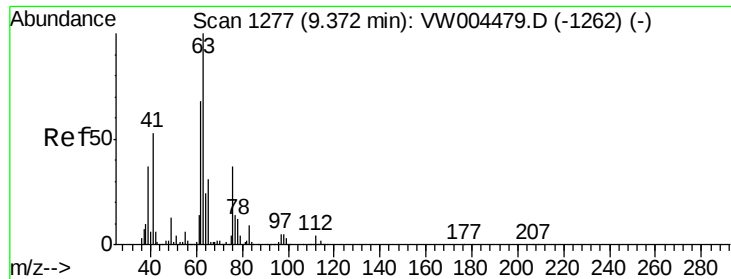
130 100

95 99.5 0.0 196.2



Abundance Ion 129.80 (129.50 to 130.50): V  
Ion 94.90 (94.60 to 95.60): VW

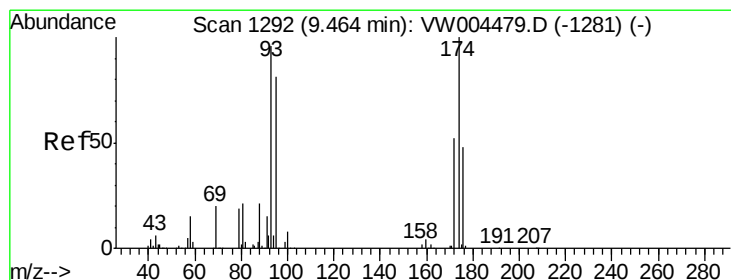
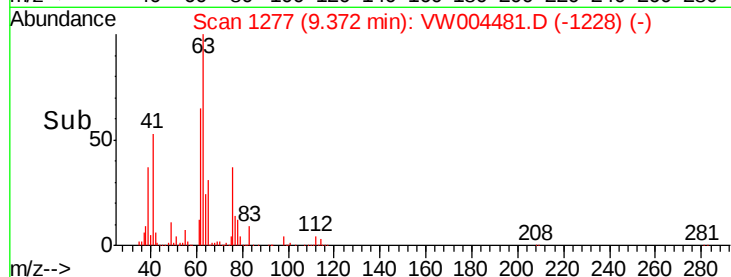
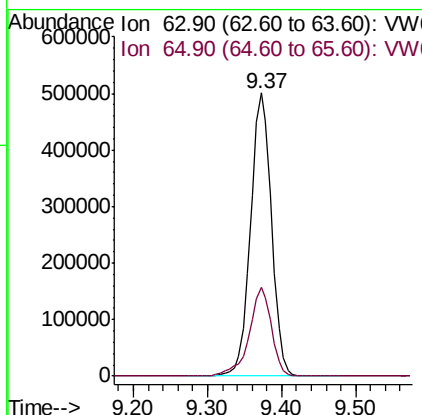
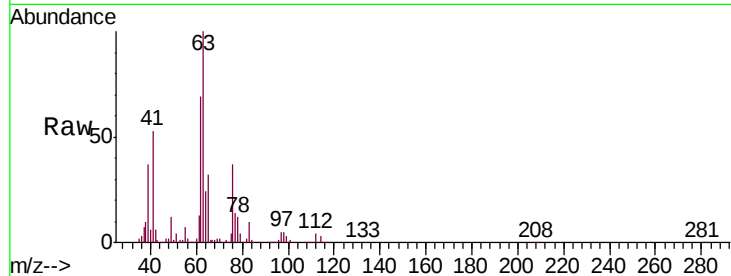




#45  
 1,2-Dichloropropane  
 Concen: 111.567 ug/l  
 RT: 9.37 min Scan# 1277  
 Delta R.T. 0.00 min  
 Lab File: VW004481.D  
 Acq: 06 Aug 2018 20:27

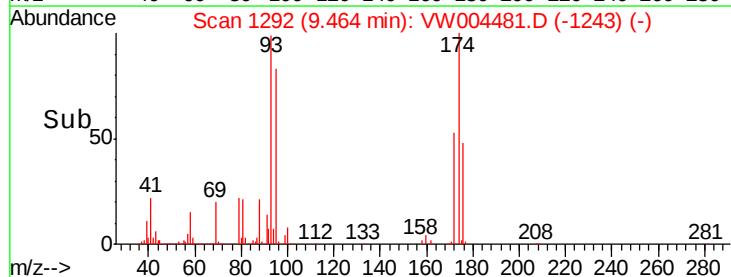
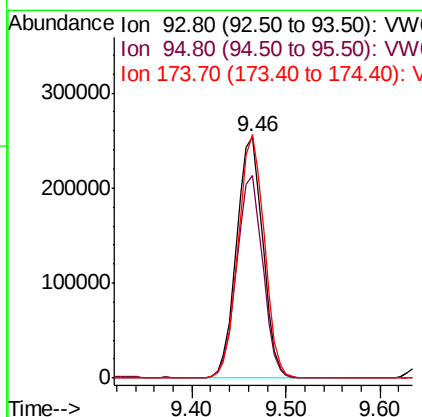
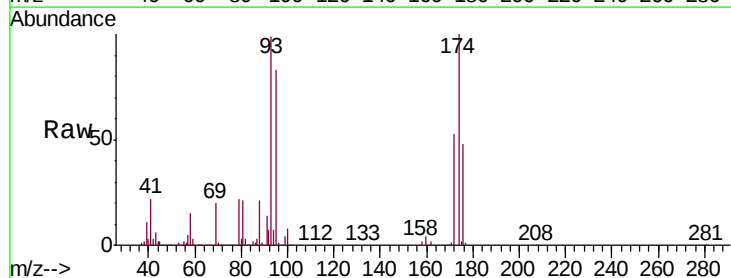
Instrument :  
 MSVOA\_W  
 ClientSampled :  
 VSTDIC100

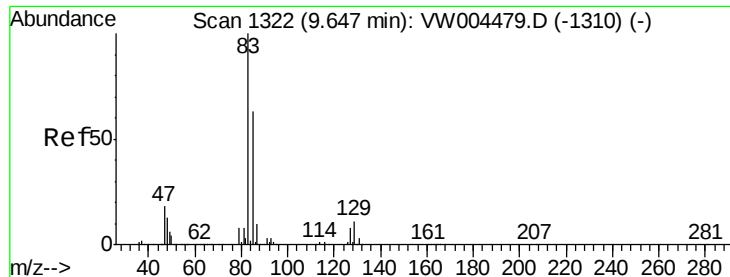
Tgt Ion: 63 Resp: 983992  
 Ion Ratio Lower Upper  
 63 100  
 65 31.6 24.5 36.7



#46  
 Dibromomethane  
 Concen: 109.363 ug/l  
 RT: 9.46 min Scan# 1292  
 Delta R.T. 0.00 min  
 Lab File: VW004481.D  
 Acq: 06 Aug 2018 20:27

Tgt Ion: 93 Resp: 493776  
 Ion Ratio Lower Upper  
 93 100  
 95 83.3 67.0 100.4  
 174 100.4 80.2 120.4





#47

Bromodichloromethane

Concen: 103.470 ug/l

RT: 9.65 min Scan# 1322

Delta R.T. 0.00 min

Lab File: VW004481.D

Acq: 06 Aug 2018 20:27

Instrument :

MSVOA\_W

ClientSampleId :

VSTDIC100

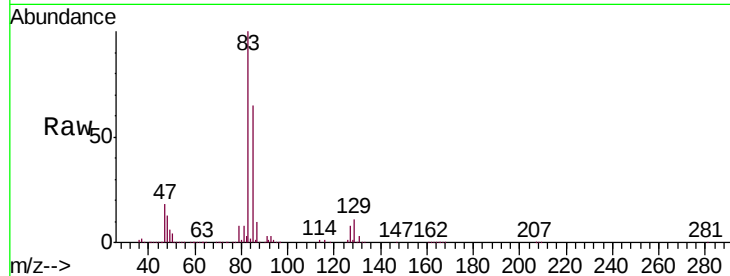
Tgt Ion: 83 Resp: 1169649

Ion Ratio Lower Upper

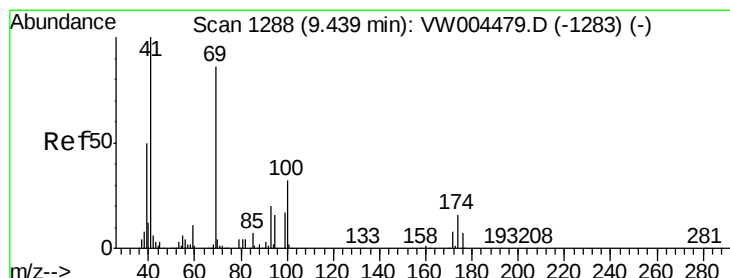
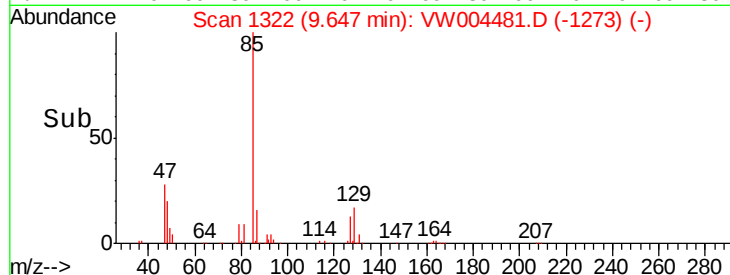
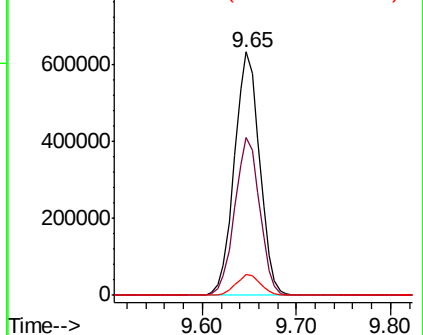
83 100

85 64.7 50.7 76.1

127 8.4 6.5 9.7



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



#48

Methyl methacrylate

Concen: 120.279 ug/l

RT: 9.44 min Scan# 1288

Delta R.T. 0.00 min

Lab File: VW004481.D

Acq: 06 Aug 2018 20:27

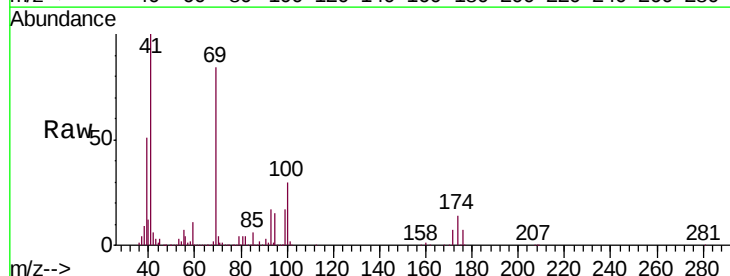
Tgt Ion: 41 Resp: 568686

Ion Ratio Lower Upper

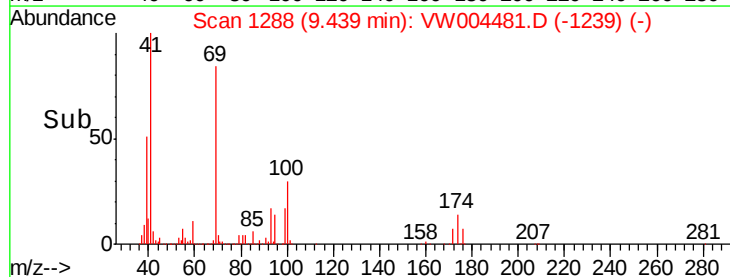
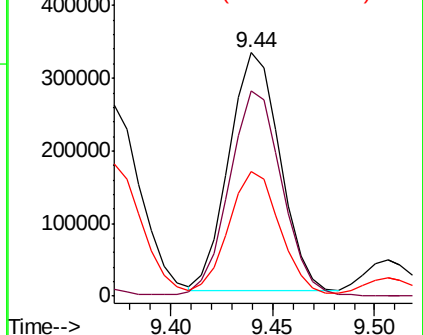
41 100

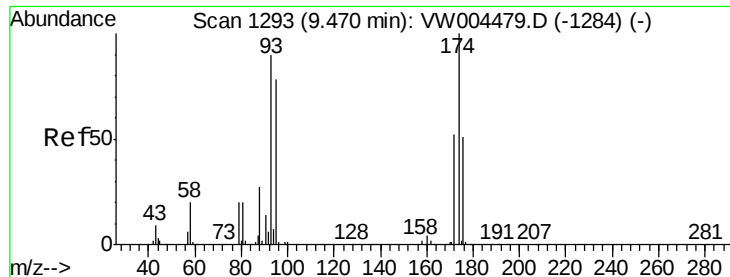
69 89.5 73.2 109.8

39 50.3 40.6 60.8



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

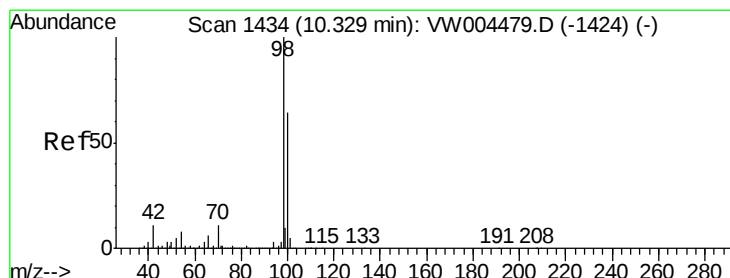
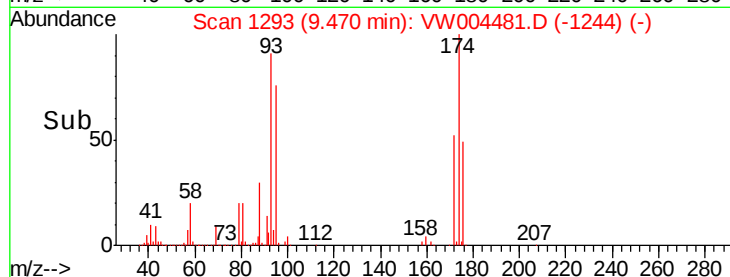
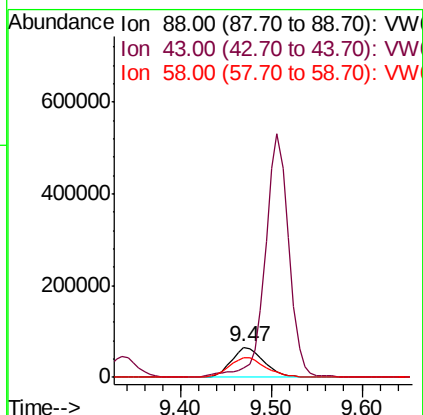
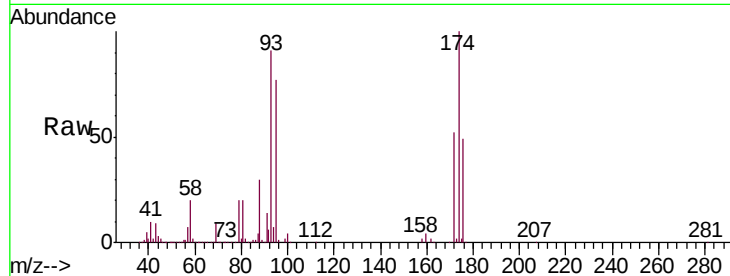




#49  
1,4-Dioxane  
Concen: 2374.656 ug/l  
RT: 9.47 min Scan# 1293  
Delta R.T. 0.00 min  
Lab File: VW004481.D  
Acq: 06 Aug 2018 20:27

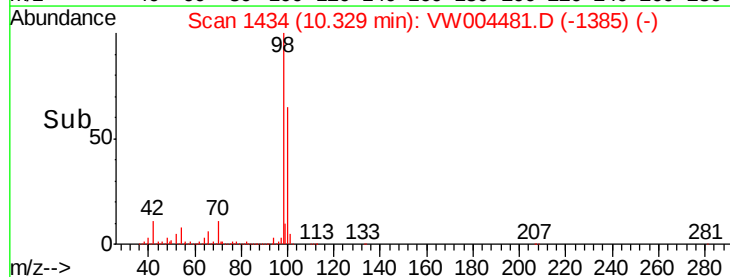
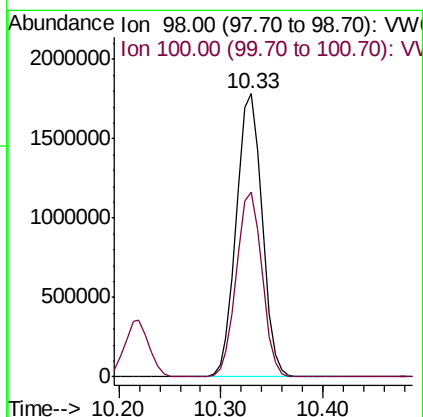
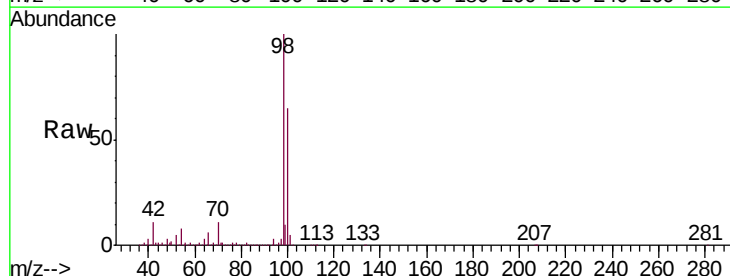
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDIC100

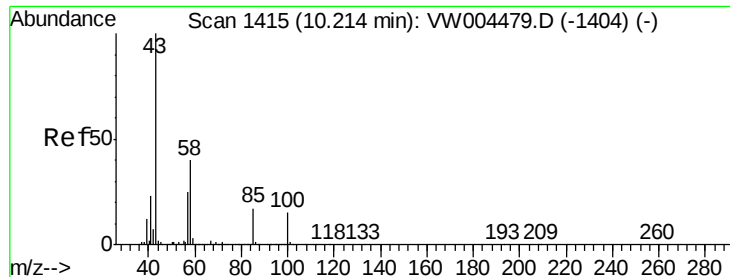
Tgt Ion: 88 Resp: 162930  
Ion Ratio Lower Upper  
88 100  
43 0.0 0.0 0.0  
58 74.3 63.5 95.3



#50  
Toluene-d8  
Concen: 100.154 ug/l  
RT: 10.33 min Scan# 1434  
Delta R.T. 0.00 min  
Lab File: VW004481.D  
Acq: 06 Aug 2018 20:27

Tgt Ion: 98 Resp: 3116458  
Ion Ratio Lower Upper  
98 100  
100 64.9 51.4 77.2

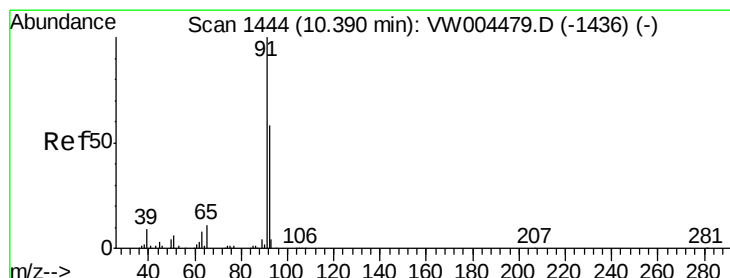
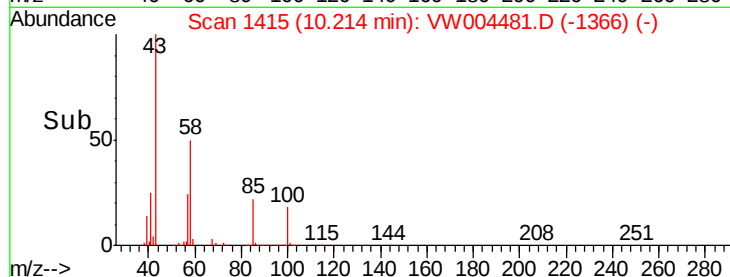
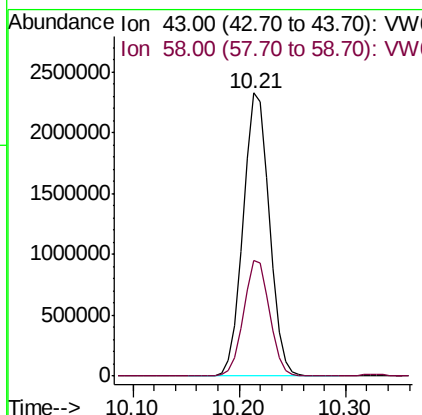
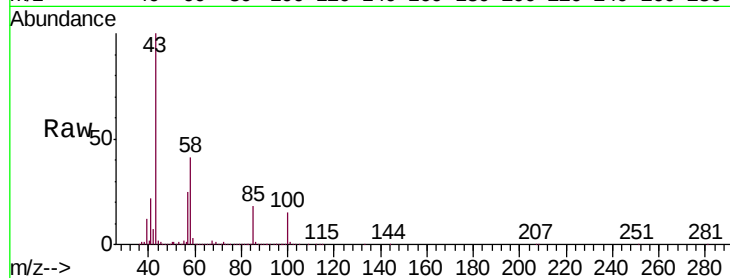




#51  
 4-Methyl-2-Pentanone  
 Concen: 741.485 ug/l  
 RT: 10.21 min Scan# 1415  
 Delta R.T. 0.00 min  
 Lab File: VW004481.D  
 Acq: 06 Aug 2018 20:27

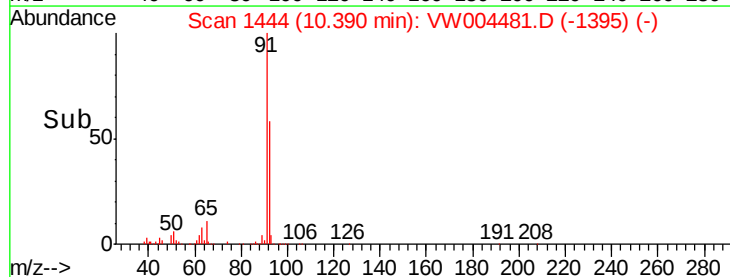
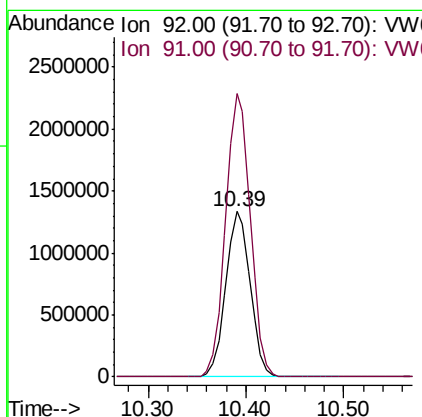
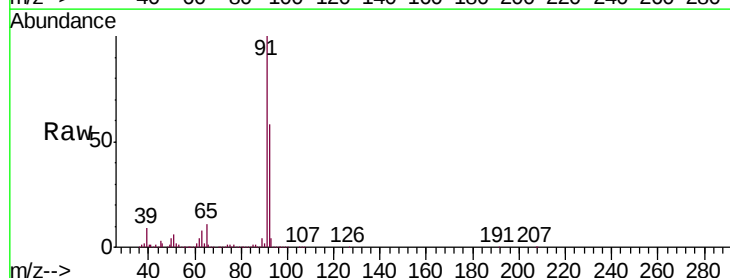
Instrument :  
 MSVOA\_W  
 ClientSampled :  
 VSTDIC100

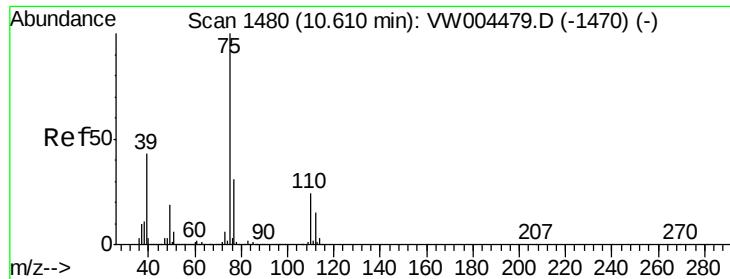
Tgt Ion: 43 Resp: 4040562  
 Ion Ratio Lower Upper  
 43 100  
 58 40.4 31.9 47.9



#52  
 Toluene  
 Concen: 104.127 ug/l  
 RT: 10.39 min Scan# 1444  
 Delta R.T. 0.00 min  
 Lab File: VW004481.D  
 Acq: 06 Aug 2018 20:27

Tgt Ion: 92 Resp: 2306459  
 Ion Ratio Lower Upper  
 92 100  
 91 172.9 137.9 206.9





#53

t-1,3-Dichloropropene

Concen: 110.120 ug/l

RT: 10.61 min Scan# 1480

Delta R.T. 0.00 min

Lab File: VW004481.D

Acq: 06 Aug 2018 20:27

Instrument :

MSVOA\_W

ClientSampleId :

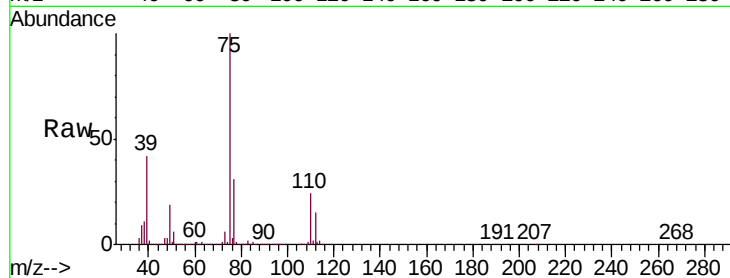
VSTDIC100

Tgt Ion: 75 Resp: 1246691

Ion Ratio Lower Upper

75 100

77 30.9 25.1 37.7



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 76.90 (76.60 to 77.60): VW

10.61

800000

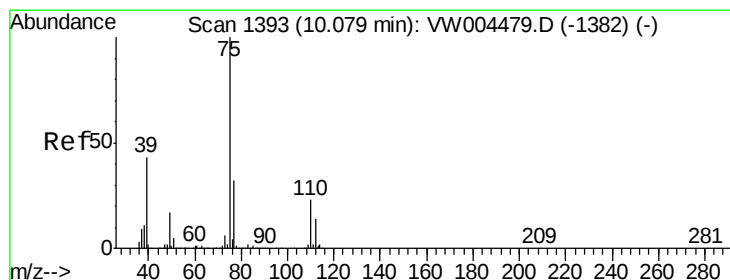
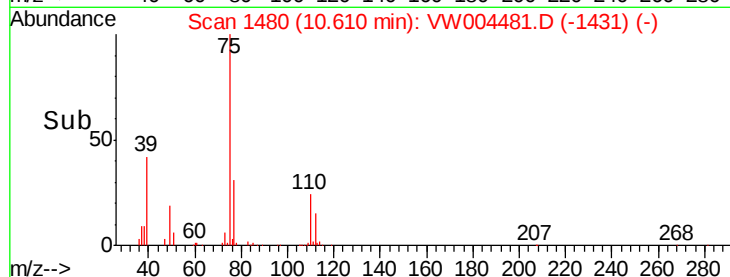
600000

400000

200000

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 108.553 ug/l

RT: 10.08 min Scan# 1393

Delta R.T. 0.00 min

Lab File: VW004481.D

Acq: 06 Aug 2018 20:27

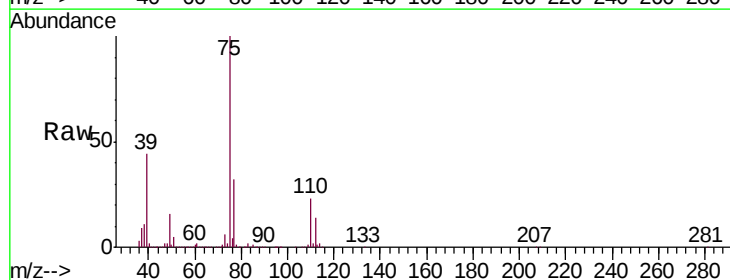
Tgt Ion: 75 Resp: 1433845

Ion Ratio Lower Upper

75 100

77 31.9 25.3 37.9

39 43.6 34.5 51.7



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 76.90 (76.60 to 77.60): VW

Ion 39.00 (38.70 to 39.70): VW

1000000

800000

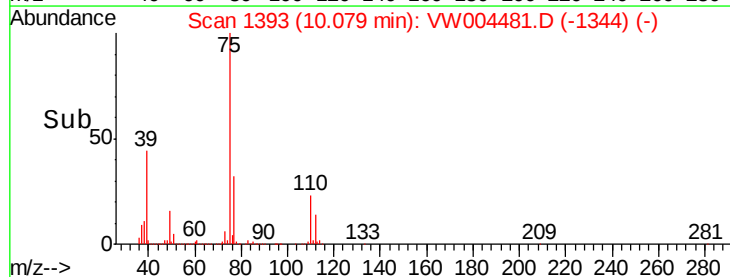
600000

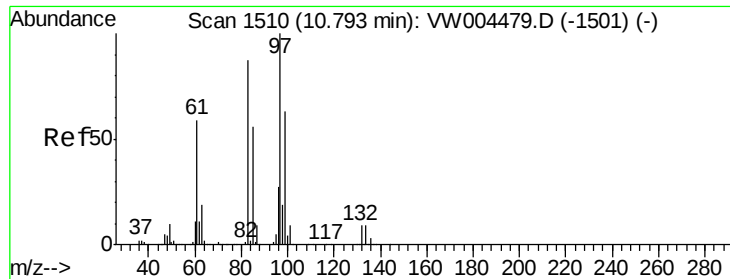
400000

200000

0

Time-->





#55

1,1,2-Trichloroethane

Concen: 109.244 ug/l

RT: 10.79 min Scan# 1510

Delta R.T. 0.00 min

Lab File: VW004481.D

Acq: 06 Aug 2018 20:27

Instrument :

MSVOA\_W

ClientSampleId :

VSTDIC100

Tgt Ion: 97 Resp: 700496

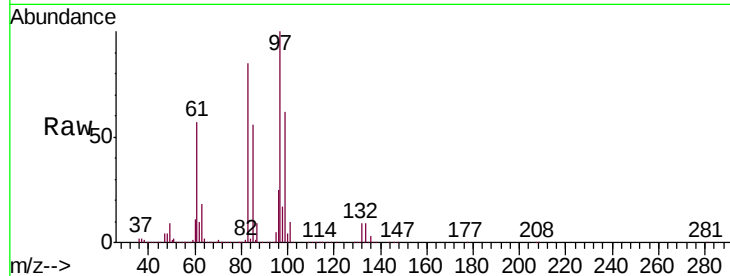
Ion Ratio Lower Upper

97 100

83 85.3 69.8 104.8

85 56.2 45.1 67.7

99 61.6 50.3 75.5

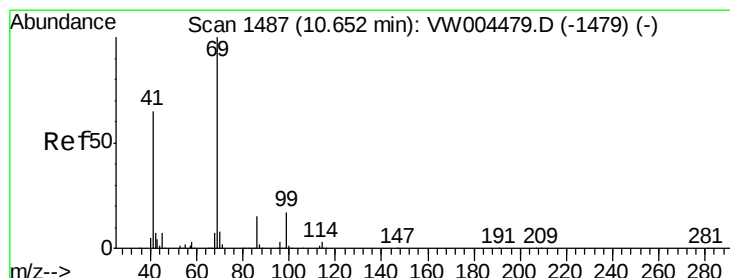
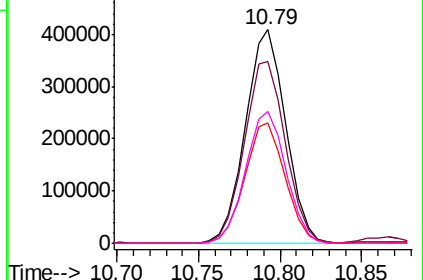
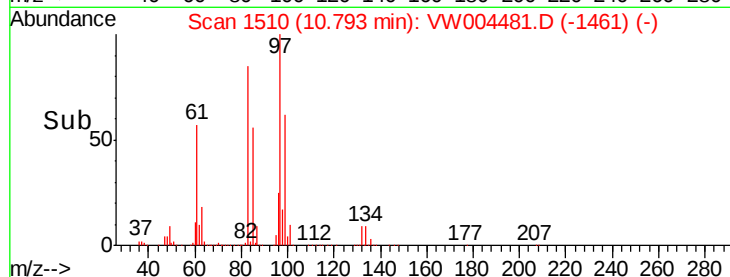


Abundance Ion 96.90 (96.60 to 97.60): VW

Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW

Ion 98.90 (98.60 to 99.60): VW



#56

Ethyl methacrylate

Concen: 125.021 ug/l

RT: 10.65 min Scan# 1487

Delta R.T. 0.00 min

Lab File: VW004481.D

Acq: 06 Aug 2018 20:27

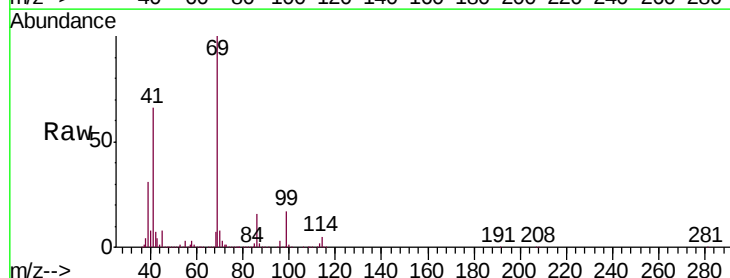
Tgt Ion: 69 Resp: 974449

Ion Ratio Lower Upper

69 100

41 65.3 52.4 78.6

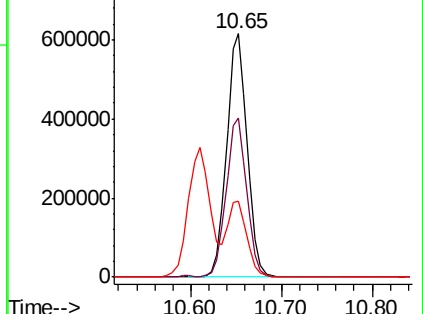
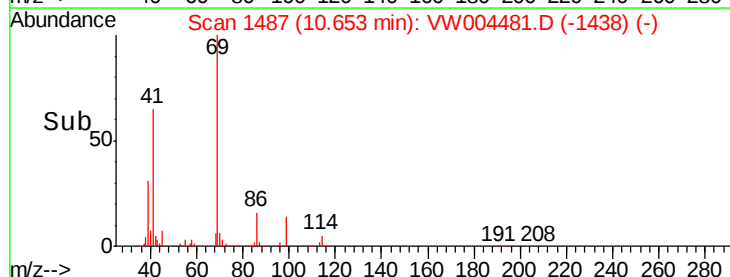
39 28.6 22.7 34.1

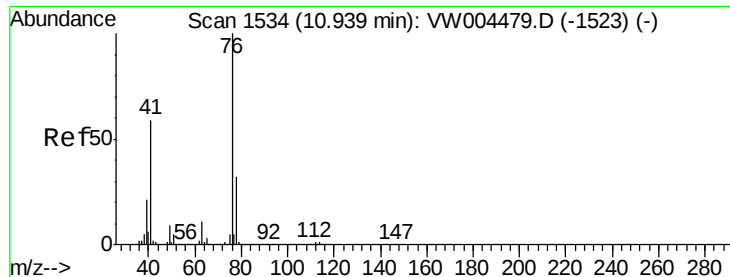


Abundance Ion 69.00 (68.70 to 69.70): VW

Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW





#57

1,3-Dichloropropane

Concen: 112.493 ug/l

RT: 10.94 min Scan# 1534

Delta R.T. 0.00 min

Lab File: VW004481.D

Acq: 06 Aug 2018 20:27

Instrument :

MSVOA\_W

ClientSampleId :

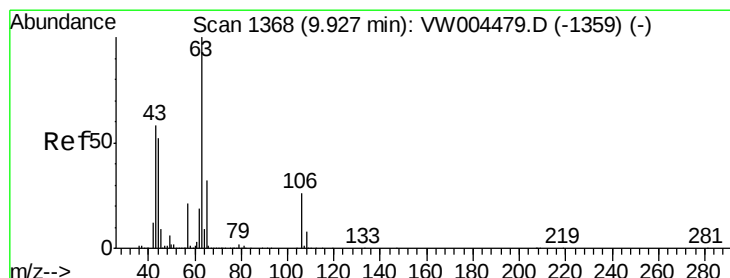
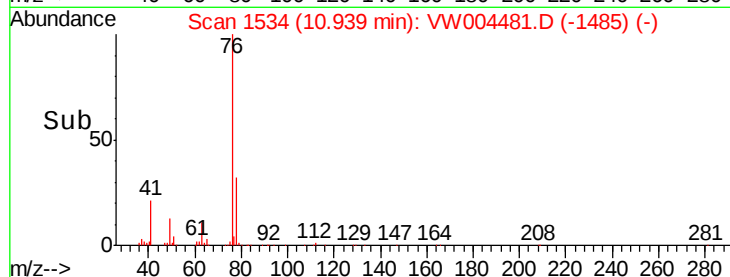
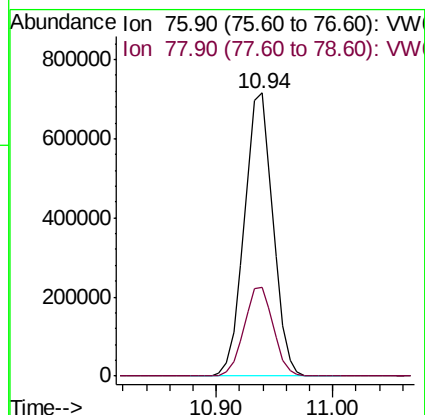
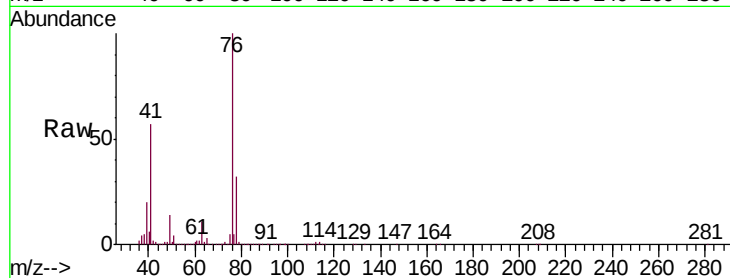
VSTDIC100

Tgt Ion: 76 Resp: 1233011

Ion Ratio Lower Upper

76 100

78 32.0 25.7 38.5



#58

2-Chloroethyl Vinyl ether

Concen: 670.296 ug/l

RT: 9.93 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VW004481.D

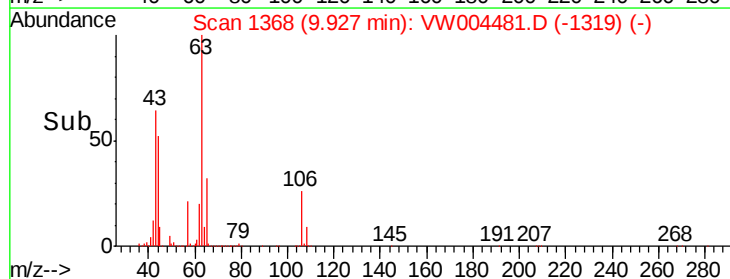
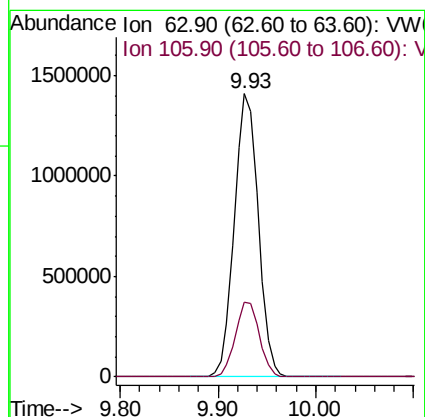
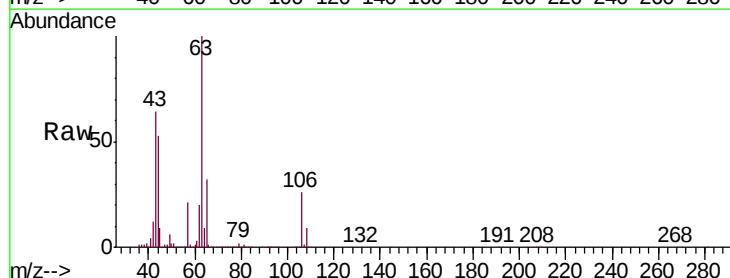
Acq: 06 Aug 2018 20:27

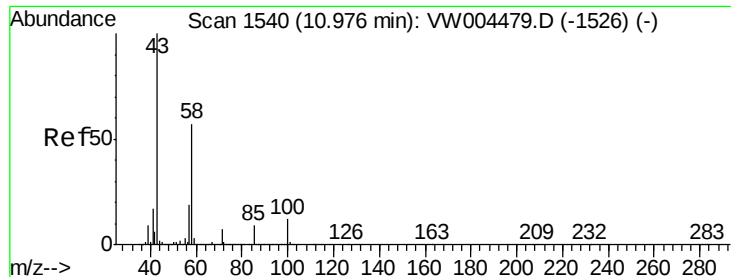
Tgt Ion: 63 Resp: 2391143

Ion Ratio Lower Upper

63 100

106 26.6 21.3 31.9

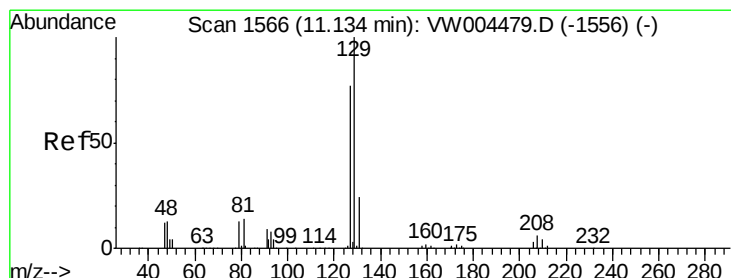
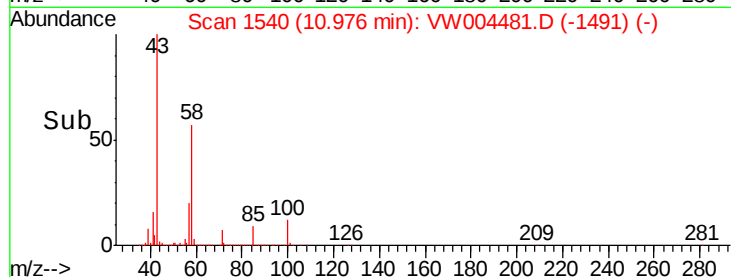
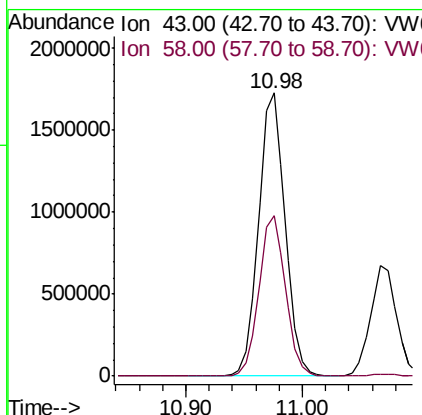
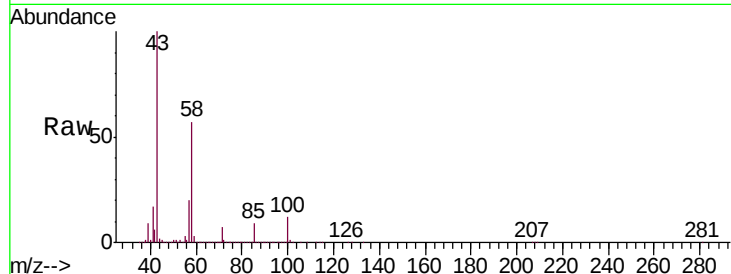




#59  
2-Hexanone  
Concen: 735.758 ug/l  
RT: 10.98 min Scan# 1540  
Delta R.T. 0.00 min  
Lab File: VW004481.D  
Acq: 06 Aug 2018 20:27

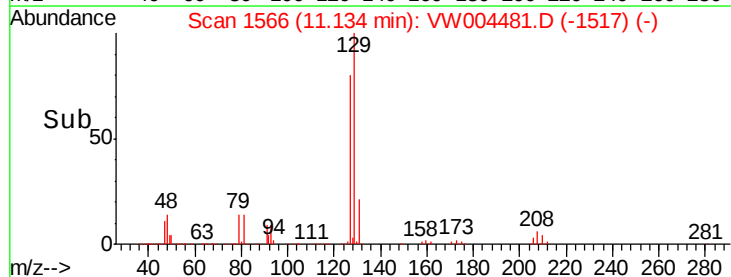
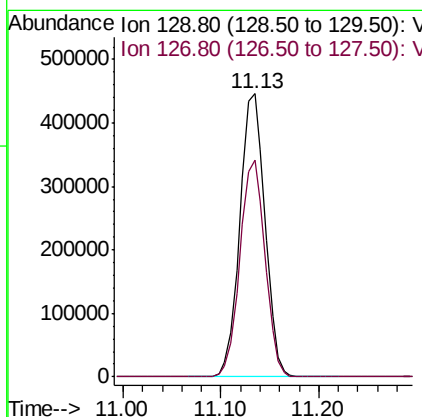
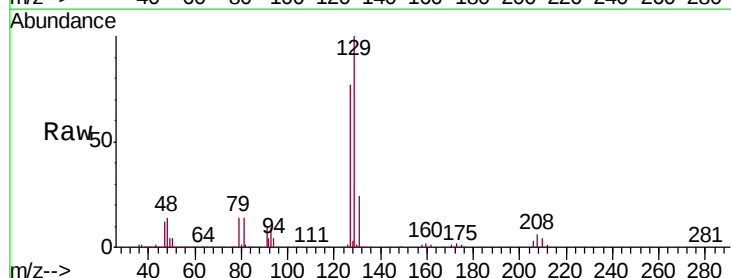
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDICC100

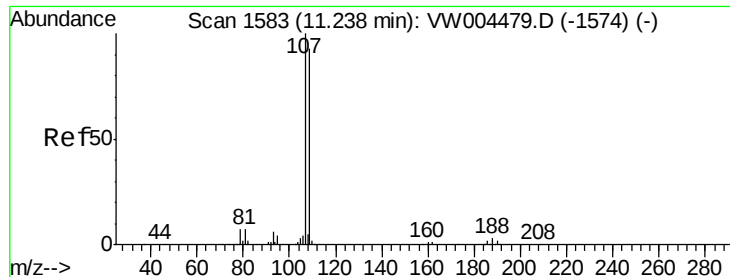
Tgt Ion: 43 Resp: 2743886  
Ion Ratio Lower Upper  
43 100  
58 56.5 27.9 83.6



#60  
Dibromochloromethane  
Concen: 104.176 ug/l  
RT: 11.13 min Scan# 1566  
Delta R.T. 0.00 min  
Lab File: VW004481.D  
Acq: 06 Aug 2018 20:27

Tgt Ion: 129 Resp: 793089  
Ion Ratio Lower Upper  
129 100  
127 76.7 38.6 115.8





#61

1,2-Dibromoethane

Concen: 108.724 ug/l

RT: 11.24 min Scan# 1583

Delta R.T. 0.00 min

Lab File: VW004481.D

Acq: 06 Aug 2018 20:27

Instrument :

MSVOA\_W

ClientSampleId :

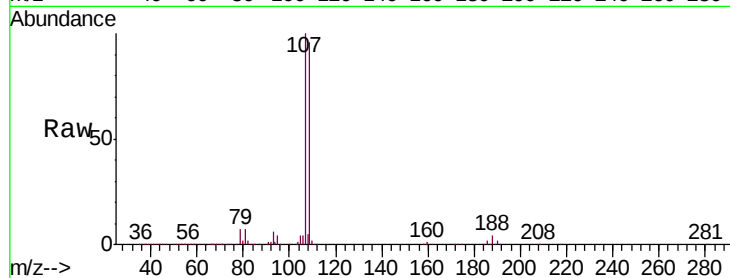
VSTDIC100

Tgt Ion: 107 Resp: 666035

Ion Ratio Lower Upper

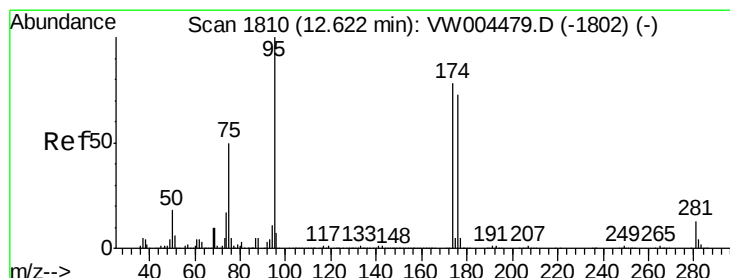
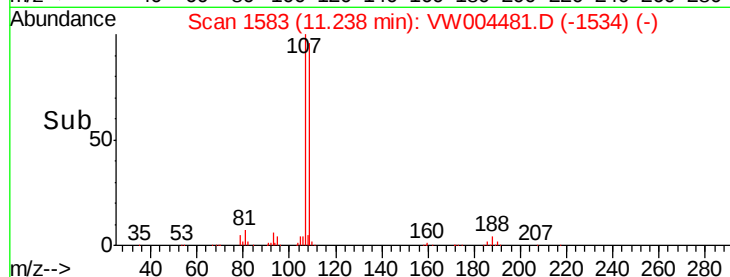
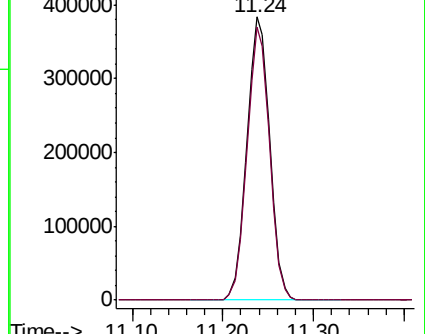
107 100

109 95.1 75.7 113.5



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 103.849 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VW004481.D

Acq: 06 Aug 2018 20:27

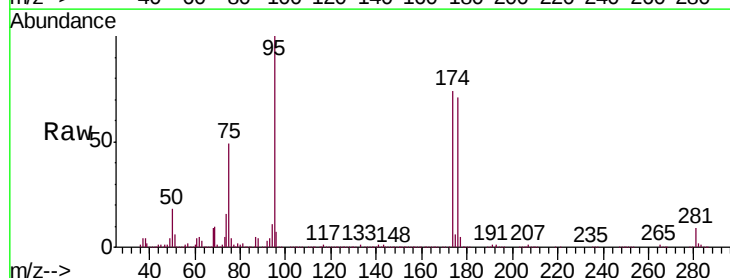
Tgt Ion: 95 Resp: 1148879

Ion Ratio Lower Upper

95 100

174 78.7 0.0 160.4

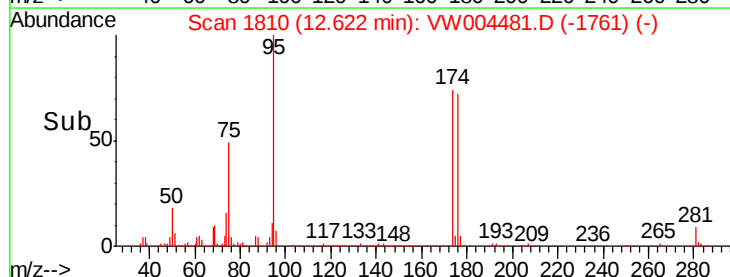
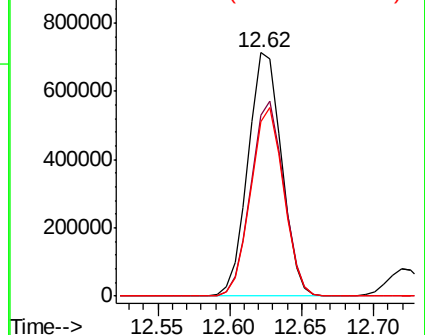
176 76.0 0.0 153.2

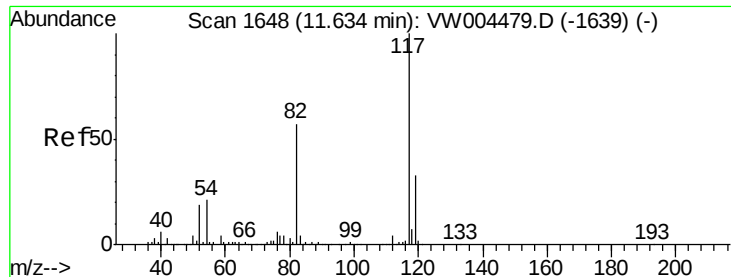


Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

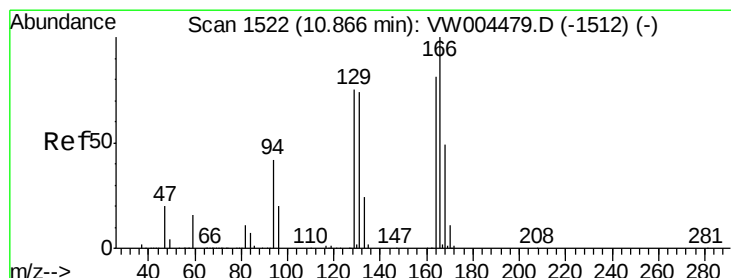
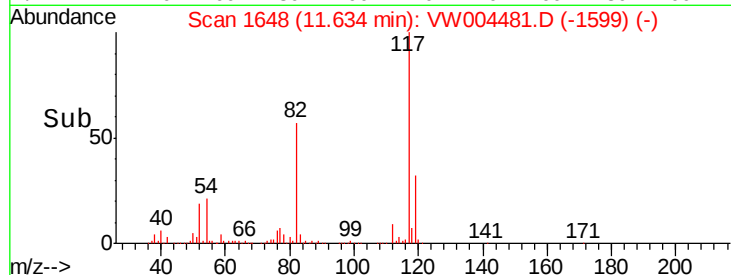
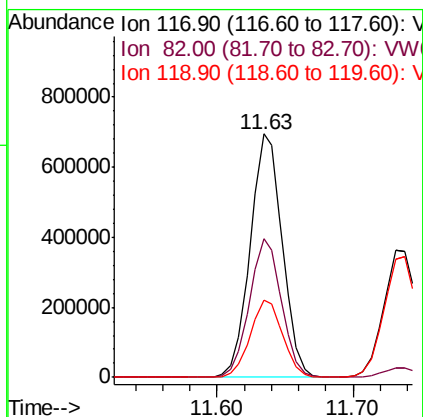
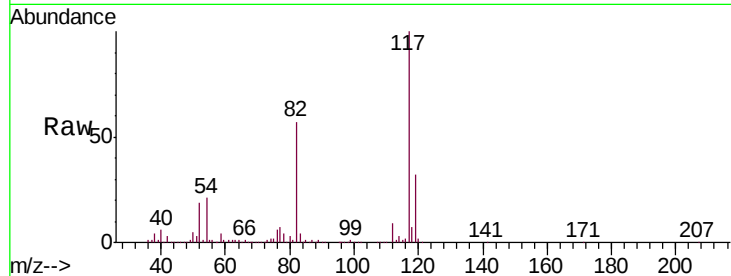




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1648  
Delta R.T. 0.00 min  
Lab File: VW004481.D  
Acq: 06 Aug 2018 20:27

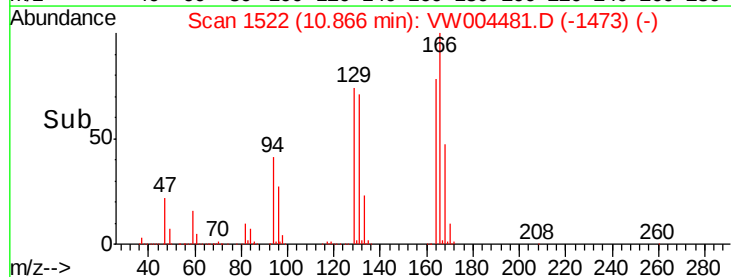
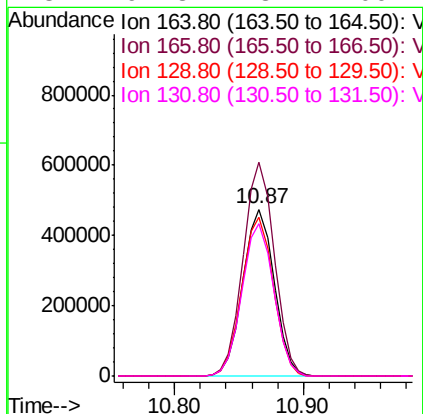
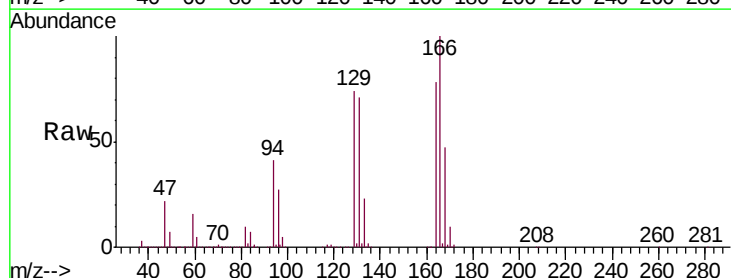
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDIC100

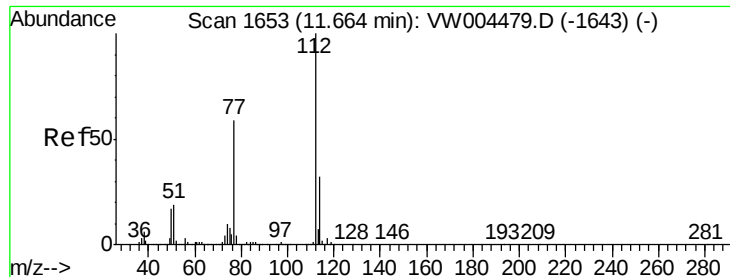
Tgt Ion:117 Resp: 1148242  
Ion Ratio Lower Upper  
117 100  
82 56.9 45.3 67.9  
119 31.9 26.2 39.4



#64  
Tetrachloroethene  
Concen: 95.703 ug/l  
RT: 10.87 min Scan# 1522  
Delta R.T. 0.00 min  
Lab File: VW004481.D  
Acq: 06 Aug 2018 20:27

Tgt Ion:164 Resp: 799586  
Ion Ratio Lower Upper  
164 100  
166 128.1 98.4 147.6  
129 95.3 73.6 110.4  
131 91.3 73.1 109.7





#65

Chlorobenzene

Concen: 104.563 ug/l

RT: 11.66 min Scan# 1653

Delta R.T. 0.00 min

Lab File: VW004481.D

Acq: 06 Aug 2018 20:27

Instrument :

MSVOA\_W

ClientSampleId :

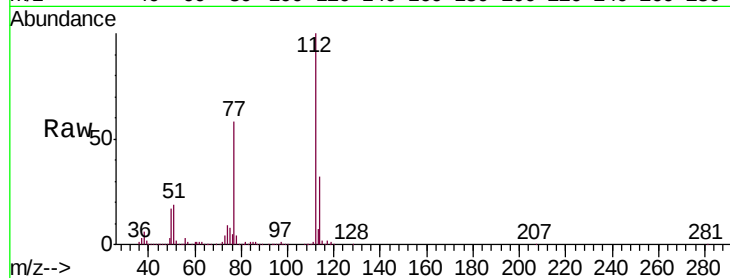
VSTDIC100

Tgt Ion:112 Resp: 2528537

Ion Ratio Lower Upper

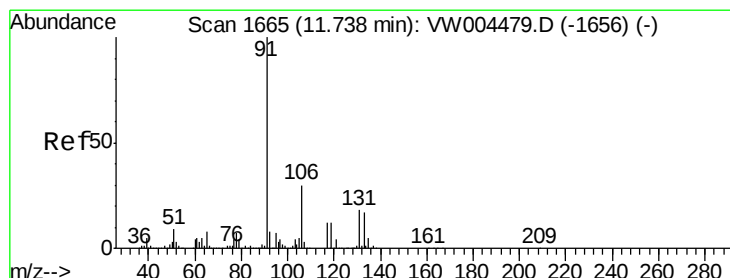
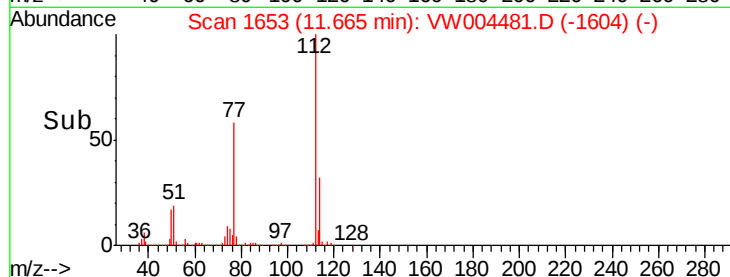
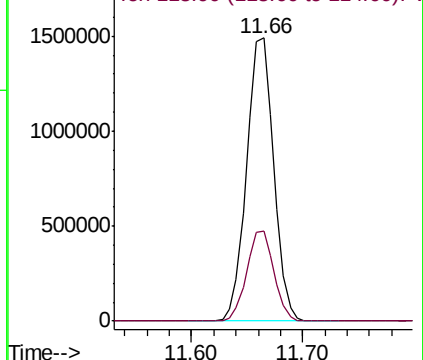
112 100

114 31.8 26.0 39.0



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 102.481 ug/l

RT: 11.74 min Scan# 1665

Delta R.T. 0.00 min

Lab File: VW004481.D

Acq: 06 Aug 2018 20:27

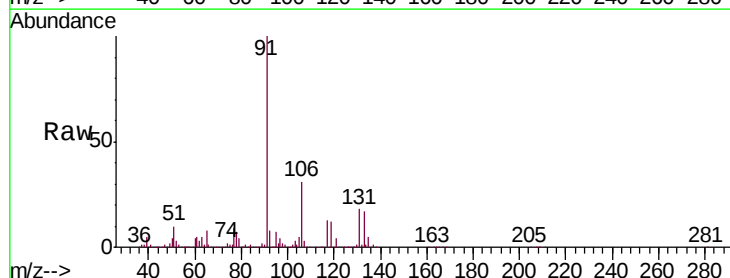
Tgt Ion:131 Resp: 875058

Ion Ratio Lower Upper

131 100

133 94.9 48.1 144.4

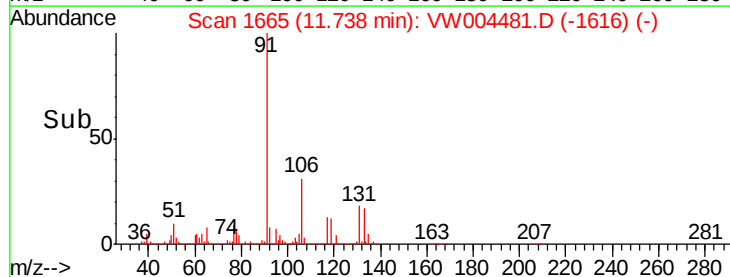
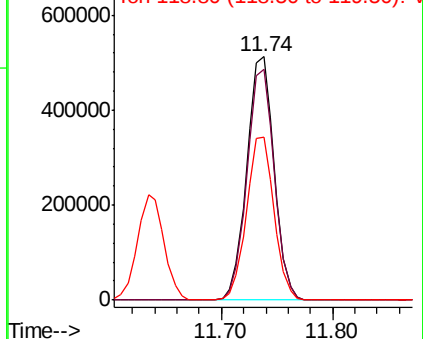
119 67.2 33.9 101.7

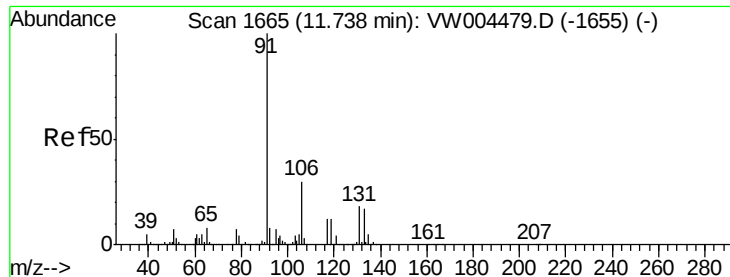


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





#67

Ethyl Benzene

Concen: 106.780 ug/l

RT: 11.74 min Scan# 1665

Delta R.T. 0.00 min

Lab File: VW004481.D

Acq: 06 Aug 2018 20:27

Instrument :

MSVOA\_W

ClientSampleId :

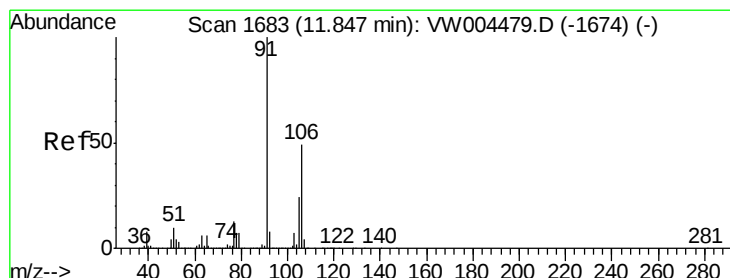
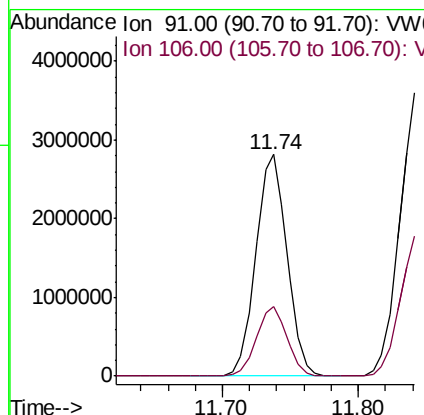
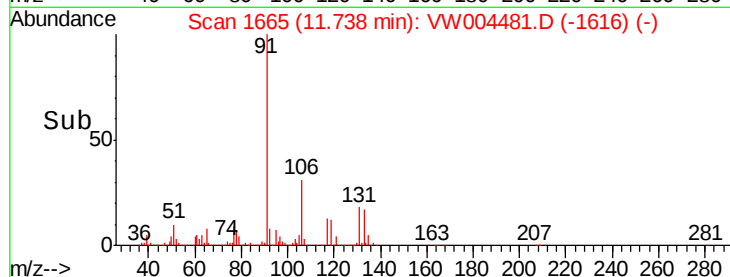
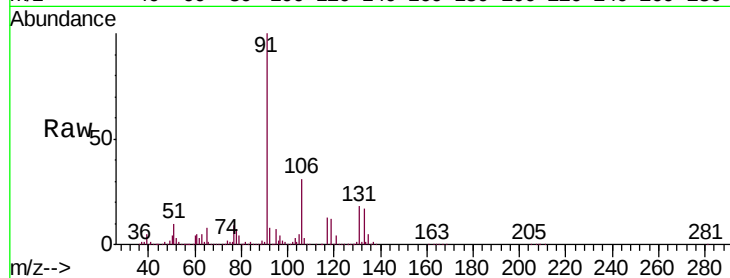
VSTDIC100

Tgt Ion: 91 Resp: 4519485

Ion Ratio Lower Upper

91 100

106 31.2 24.2 36.2



#68

m/p-Xylenes

Concen: 212.607 ug/l

RT: 11.85 min Scan# 1683

Delta R.T. 0.00 min

Lab File: VW004481.D

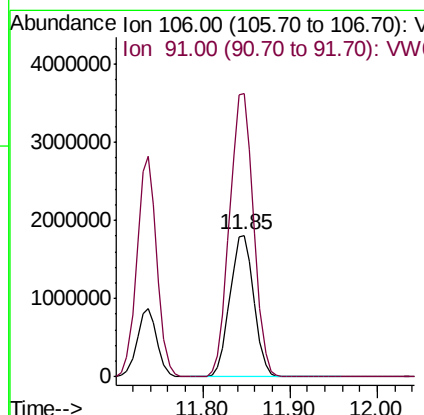
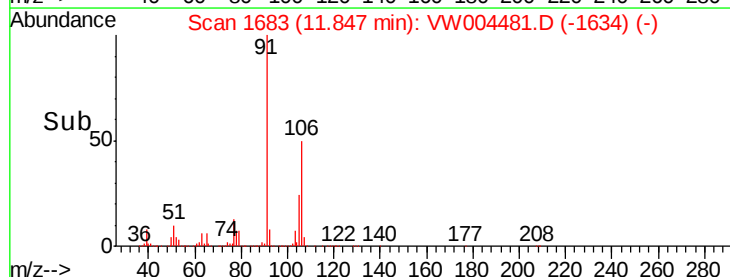
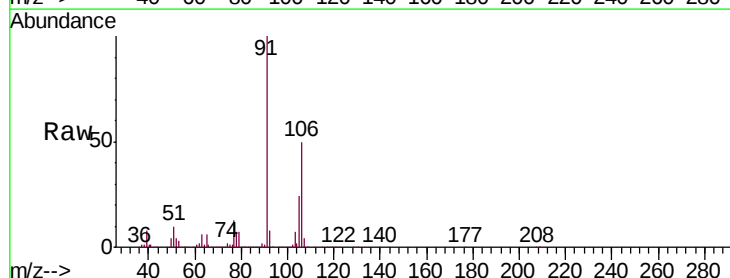
Acq: 06 Aug 2018 20:27

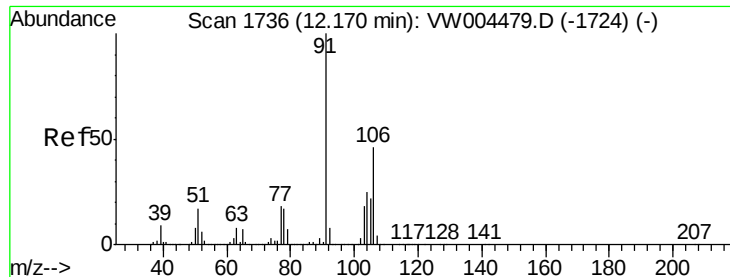
Tgt Ion: 106 Resp: 3453127

Ion Ratio Lower Upper

106 100

91 200.5 162.8 244.2

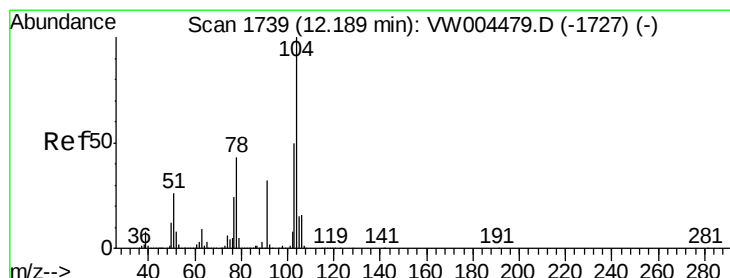
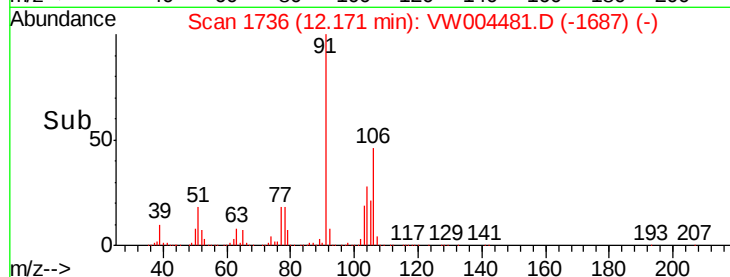
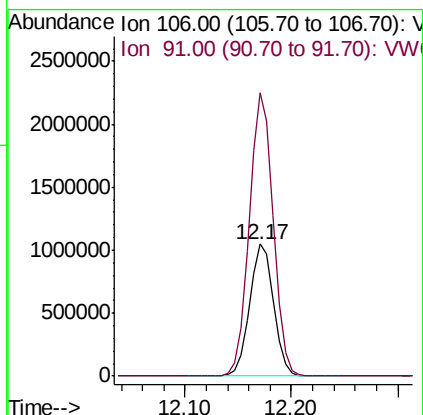
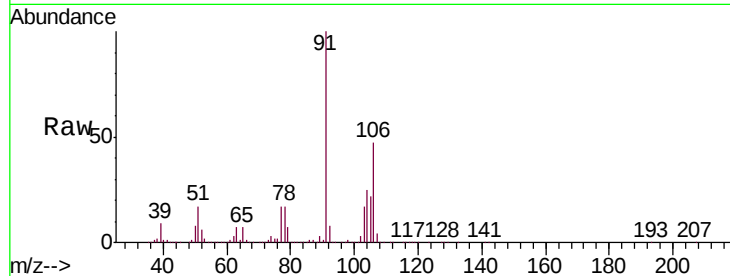




#69  
o-Xylene  
Concen: 110.157 ug/l  
RT: 12.17 min Scan# 1736  
Delta R.T. 0.00 min  
Lab File: VW004481.D  
Acq: 06 Aug 2018 20:27

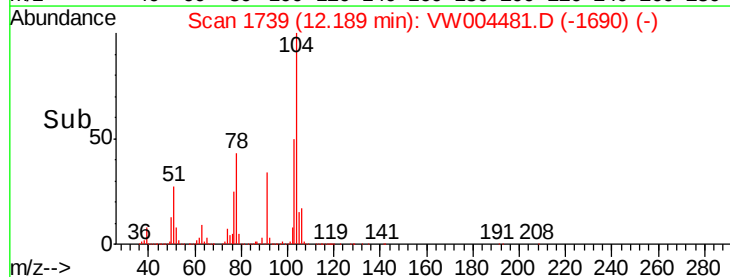
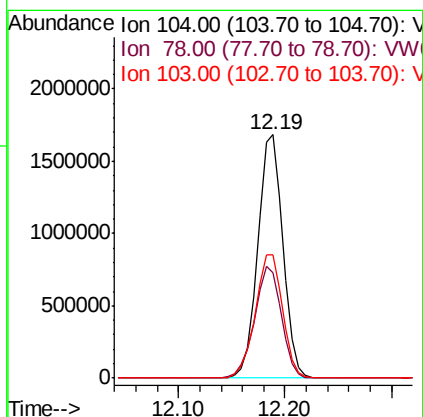
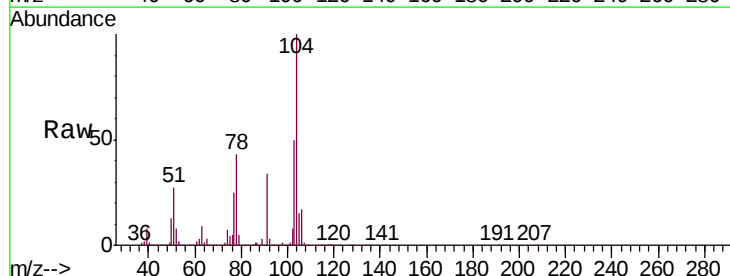
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDIC100

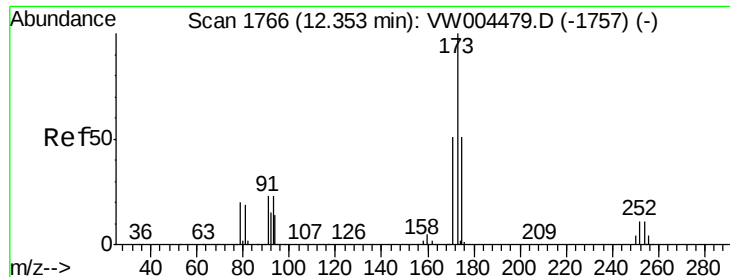
Tgt Ion:106 Resp: 1654459  
Ion Ratio Lower Upper  
106 100  
91 213.6 106.7 320.2



#70  
Styrene  
Concen: 109.280 ug/l  
RT: 12.19 min Scan# 1739  
Delta R.T. 0.00 min  
Lab File: VW004481.D  
Acq: 06 Aug 2018 20:27

Tgt Ion:104 Resp: 2783607  
Ion Ratio Lower Upper  
104 100  
78 49.2 39.0 58.4  
103 55.1 44.2 66.2





#71

Bromoform

Concen: 103.507 ug/l

RT: 12.35 min Scan# 1766

Delta R.T. 0.00 min

Lab File: VW004481.D

Acq: 06 Aug 2018 20:27

Instrument :

MSVOA\_W

ClientSampleId :

VSTDIC100

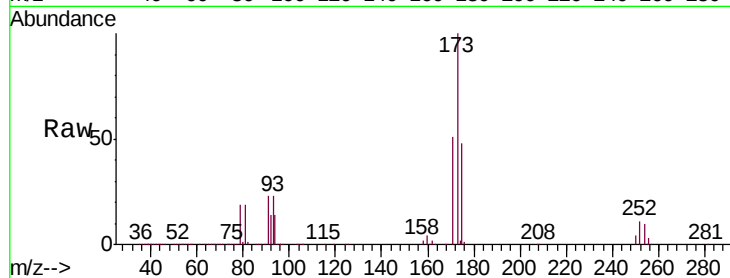
Tgt Ion:173 Resp: 494173

Ion Ratio Lower Upper

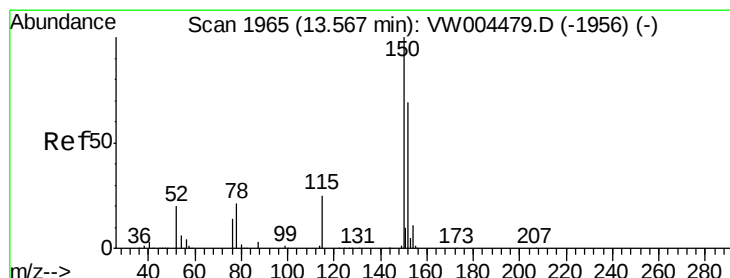
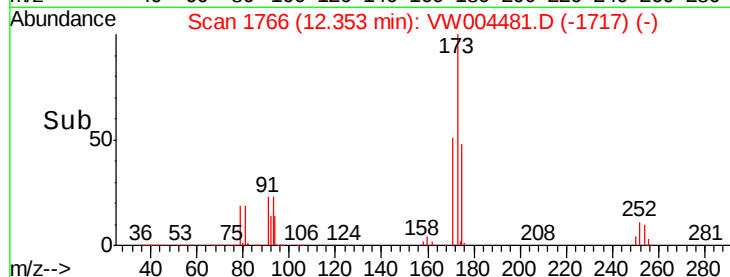
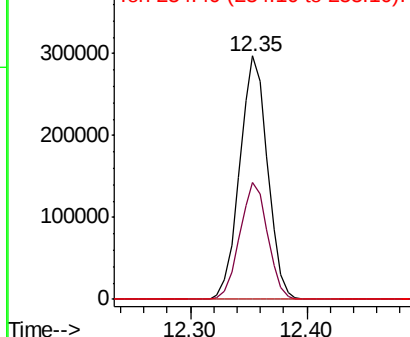
173 100

175 48.2 24.5 73.5

254 0.1 0.2 0.2#



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.57 min Scan# 1965

Delta R.T. 0.00 min

Lab File: VW004481.D

Acq: 06 Aug 2018 20:27

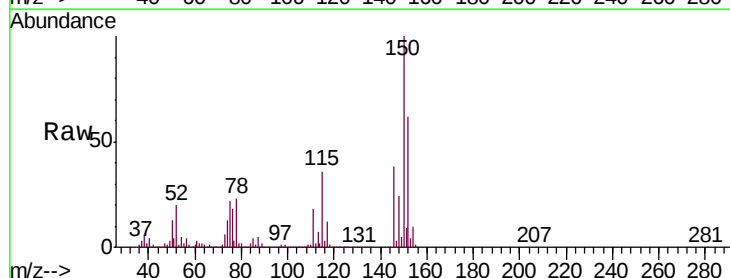
Tgt Ion:152 Resp: 593936

Ion Ratio Lower Upper

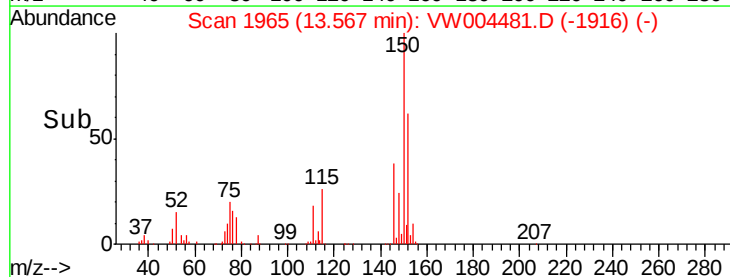
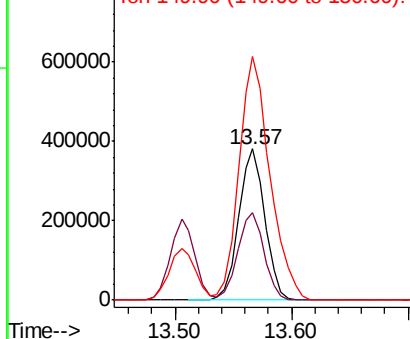
152 100

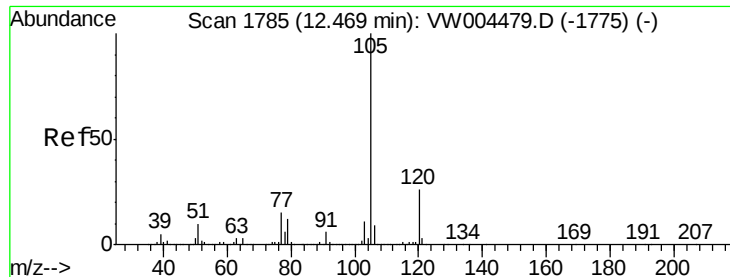
115 58.1 29.1 87.3

150 190.9 0.0 349.6



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





#73

Isopropylbenzene

Concen: 108.271 ug/l

RT: 12.47 min Scan# 1785

Delta R.T. 0.00 min

Lab File: VW004481.D

Acq: 06 Aug 2018 20:27

Instrument :

MSVOA\_W

ClientSampleId :

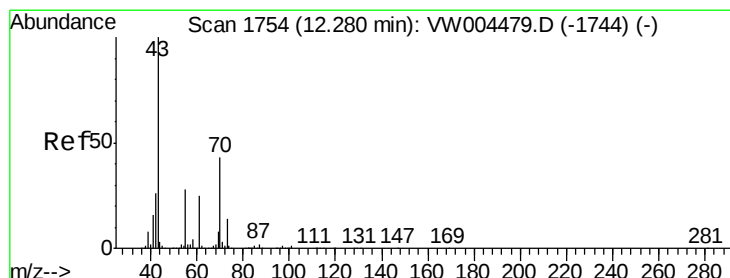
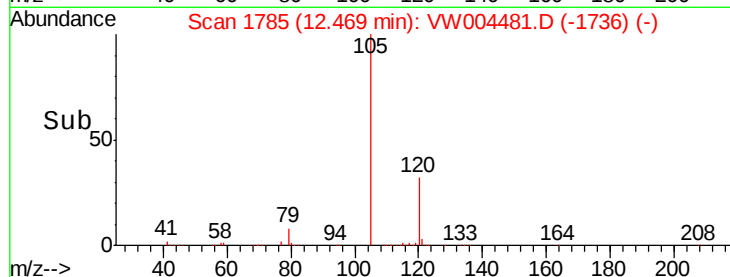
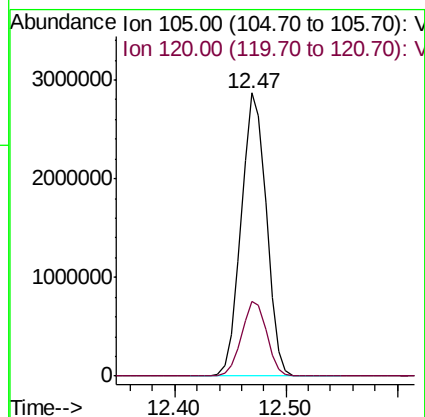
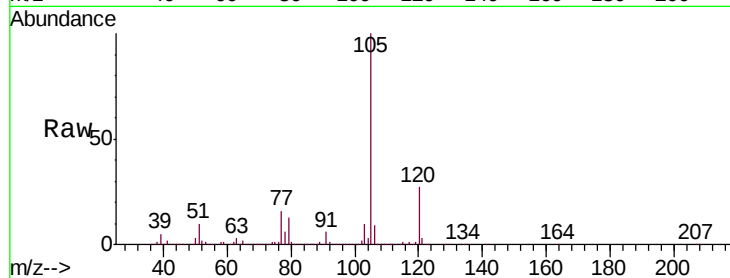
VSTDIC100

Tgt Ion:105 Resp: 4485678

Ion Ratio Lower Upper

105 100

120 26.5 13.2 39.6



#74

N-ethyl acetate

Concen: 125.355 ug/l

RT: 12.28 min Scan# 1754

Delta R.T. 0.00 min

Lab File: VW004481.D

Acq: 06 Aug 2018 20:27

Tgt Ion: 43 Resp: 1140841

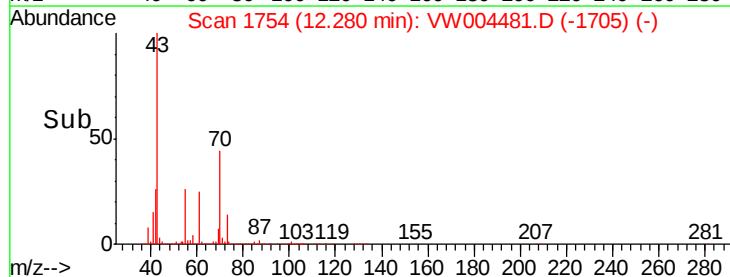
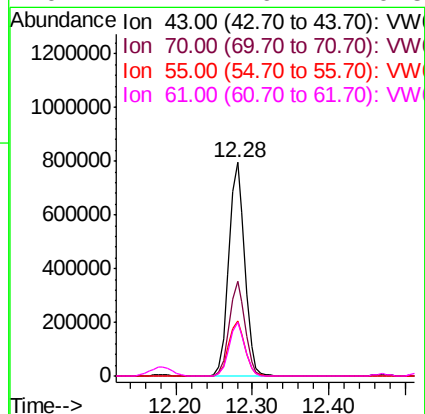
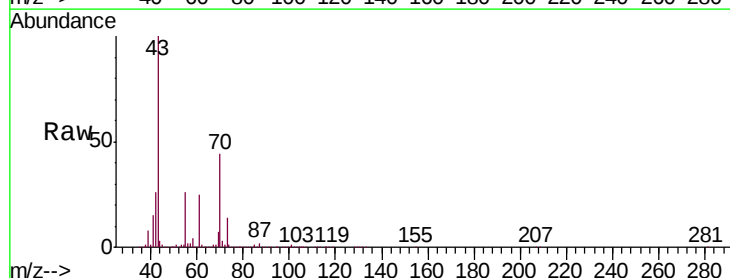
Ion Ratio Lower Upper

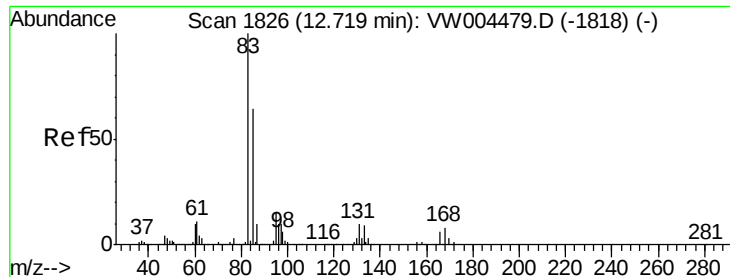
43 100

70 43.8 35.3 52.9

55 26.5 22.9 34.3

61 24.7 19.7 29.5





#75

1,1,2,2-Tetrachloroethane

Concen: 117.751 ug/l

RT: 12.72 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VW004481.D

Acq: 06 Aug 2018 20:27

Instrument :

MSVOA\_W

ClientSampleId :

VSTDIC100

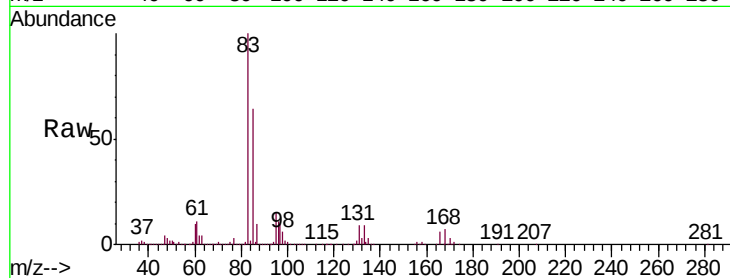
Tgt Ion: 83 Resp: 874362

Ion Ratio Lower Upper

83 100

131 10.2 5.0 15.0

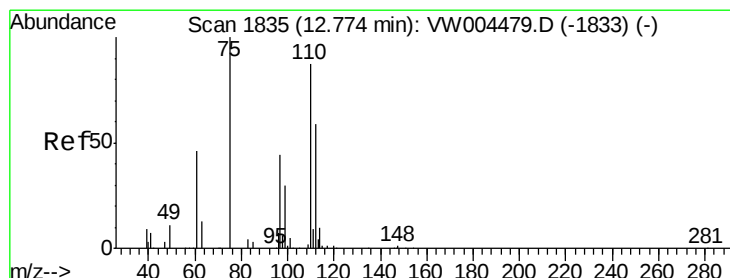
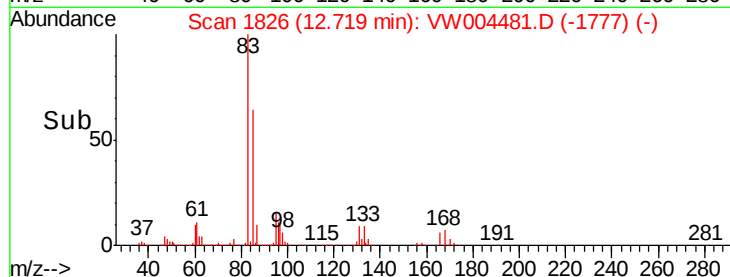
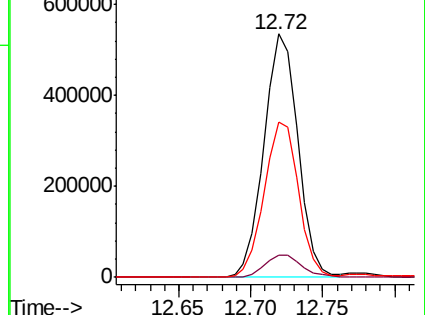
85 64.7 31.8 95.4



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): VW

Ion 84.90 (84.60 to 85.60): VW



#76

1,2,3-Trichloropropane

Concen: 213.600 ug/l

RT: 12.77 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VW004481.D

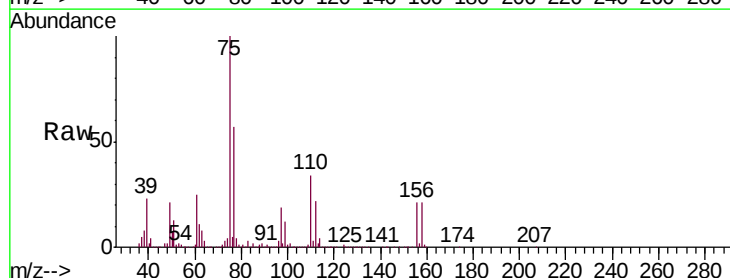
Acq: 06 Aug 2018 20:27

Tgt Ion: 75 Resp: 1146478

Ion Ratio Lower Upper

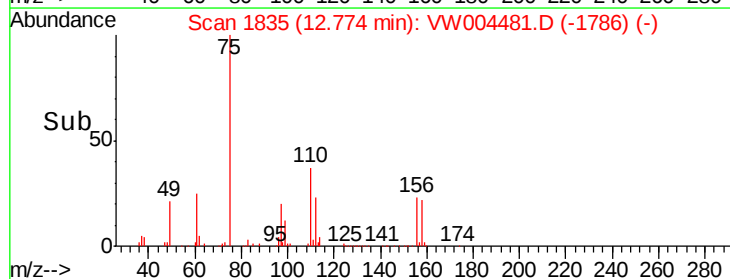
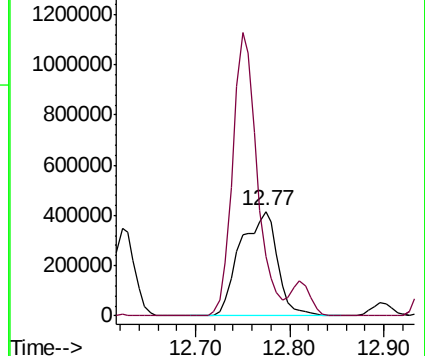
75 100

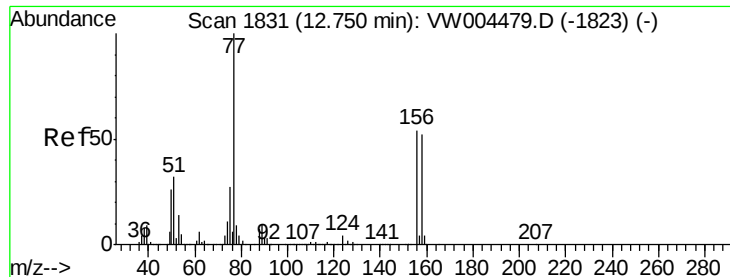
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#77

Bromobenzene

Concen: 103.681 ug/l

RT: 12.75 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VW004481.D

Acq: 06 Aug 2018 20:27

Instrument :

MSVOA\_W

ClientSampleId :

VSTDIC100

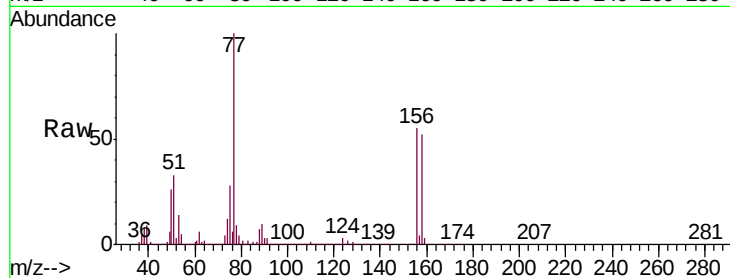
Tgt Ion:156 Resp: 1033502

Ion Ratio Lower Upper

156 100

77 197.5 98.7 296.1

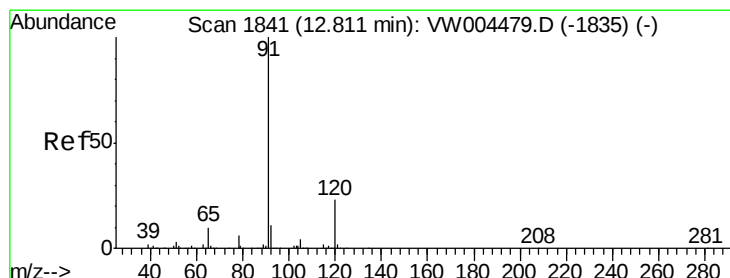
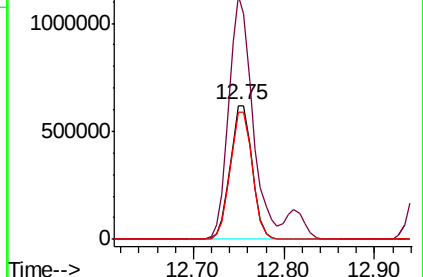
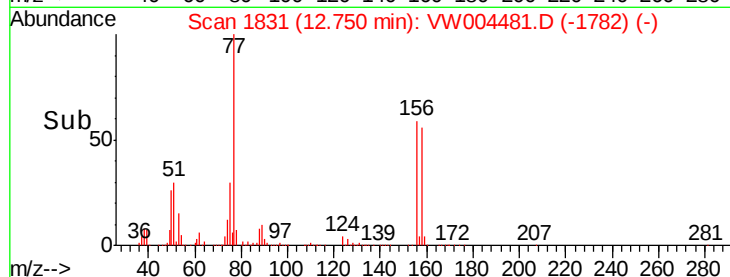
158 96.7 48.7 146.1



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 107.371 ug/l

RT: 12.81 min Scan# 1841

Delta R.T. 0.00 min

Lab File: VW004481.D

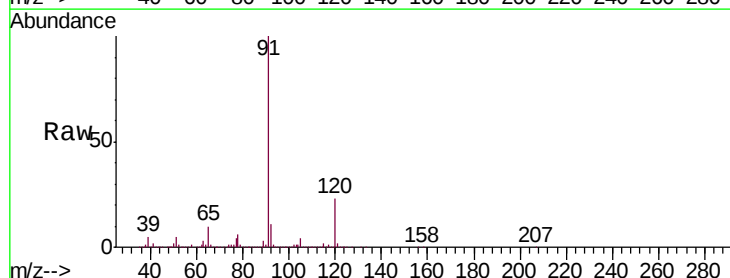
Acq: 06 Aug 2018 20:27

Tgt Ion: 91 Resp: 5407805

Ion Ratio Lower Upper

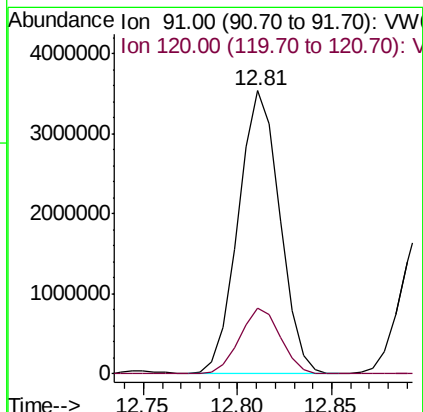
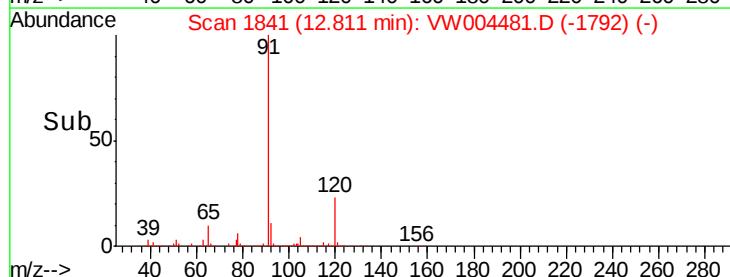
91 100

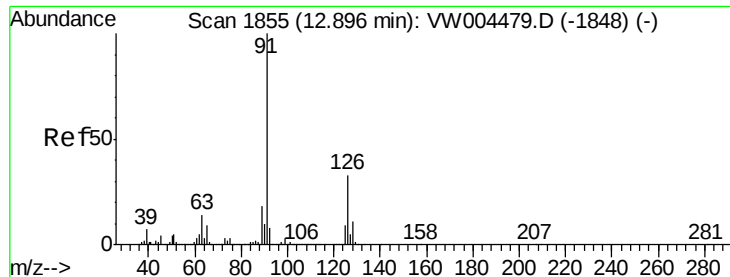
120 22.8 11.3 33.9



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 106.756 ug/l

RT: 12.90 min Scan# 1855

Delta R.T. 0.00 min

Lab File: VW004481.D

Acq: 06 Aug 2018 20:27

Instrument :

MSVOA\_W

ClientSampleId :

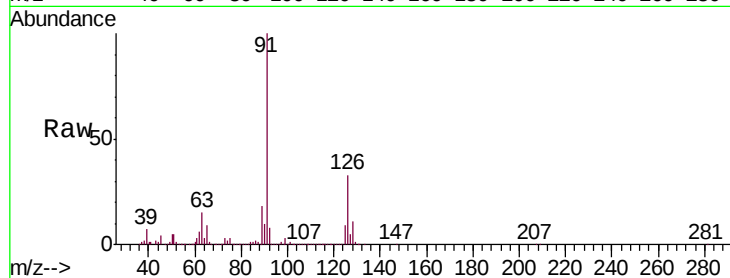
VSTDIC100

Tgt Ion: 91 Resp: 3080912

Ion Ratio Lower Upper

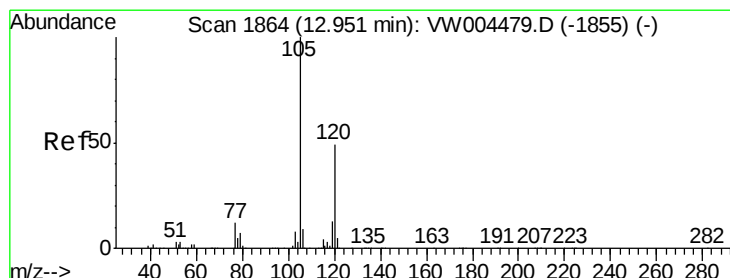
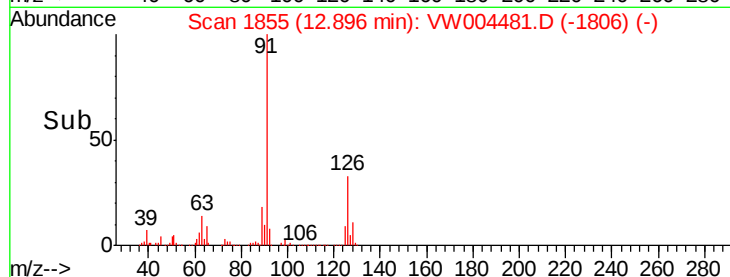
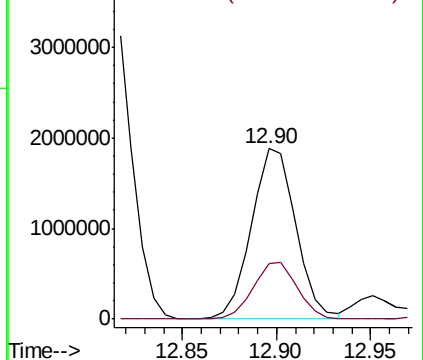
91 100

126 33.1 16.6 49.8



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 105.019 ug/l

RT: 12.95 min Scan# 1864

Delta R.T. 0.00 min

Lab File: VW004481.D

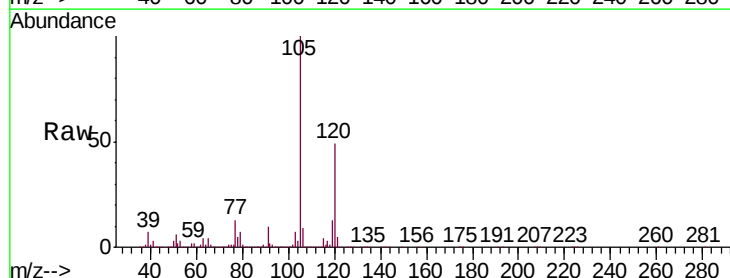
Acq: 06 Aug 2018 20:27

Tgt Ion:105 Resp: 3746167

Ion Ratio Lower Upper

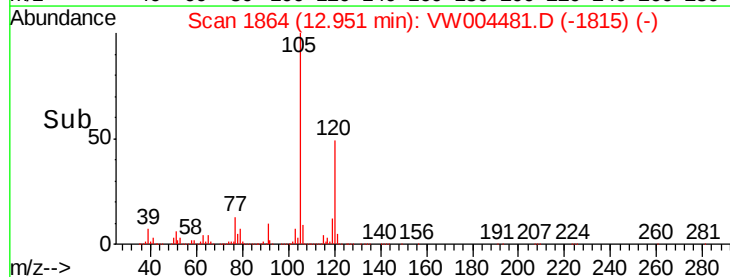
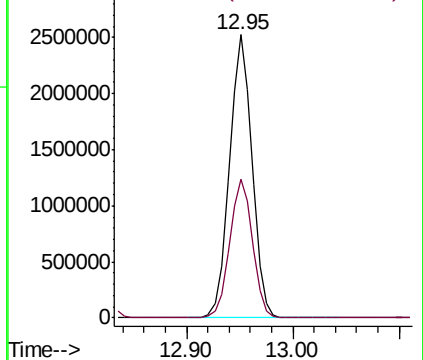
105 100

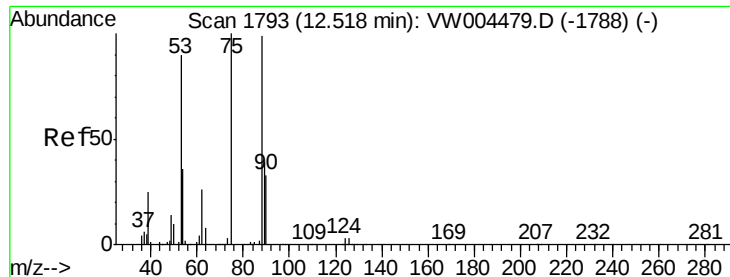
120 49.4 24.6 73.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 120.975 ug/l

RT: 12.52 min Scan# 1793

Delta R.T. 0.00 min

Lab File: VW004481.D

Acq: 06 Aug 2018 20:27

Instrument :

MSVOA\_W

ClientSampleId :

VSTDIC100

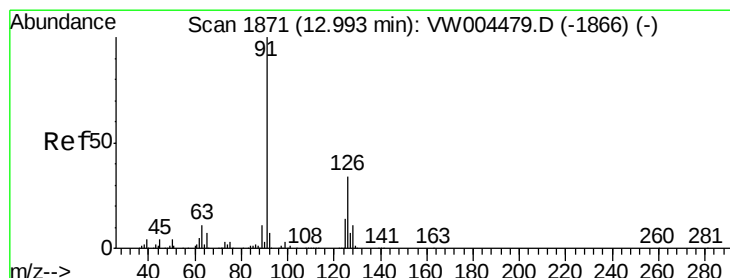
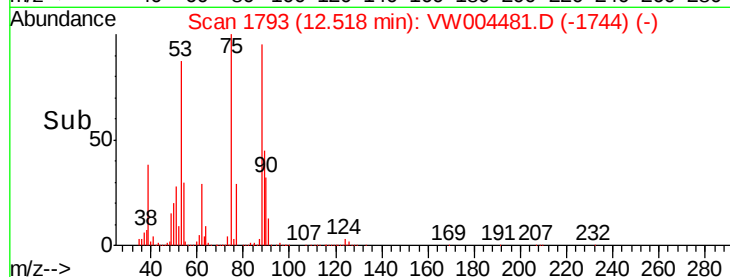
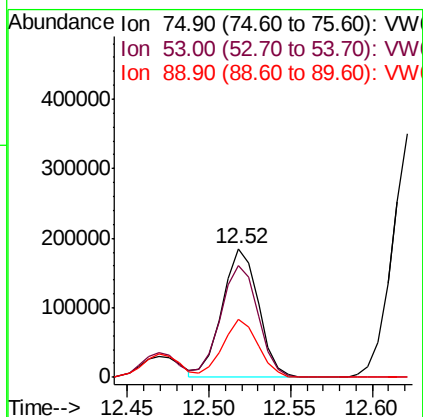
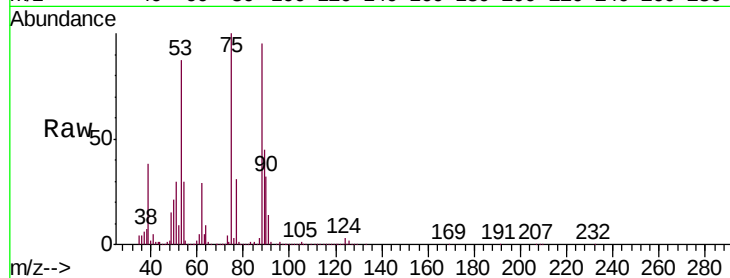
Tgt Ion: 75 Resp: 286305

Ion Ratio Lower Upper

75 100

53 89.5 74.4 111.6

89 43.5 35.9 53.9



#82

4-Chlorotoluene

Concen: 103.059 ug/l

RT: 12.99 min Scan# 1871

Delta R.T. 0.00 min

Lab File: VW004481.D

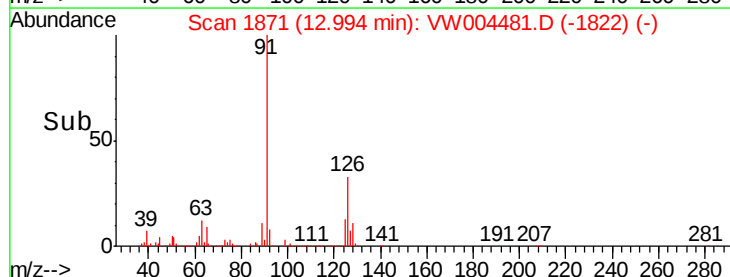
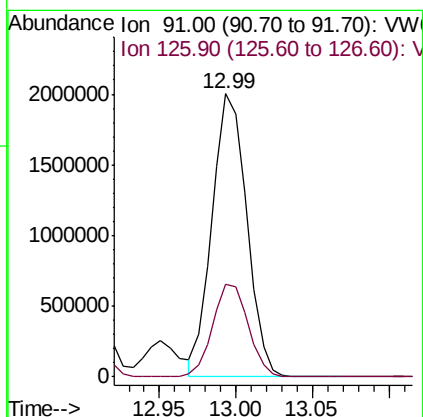
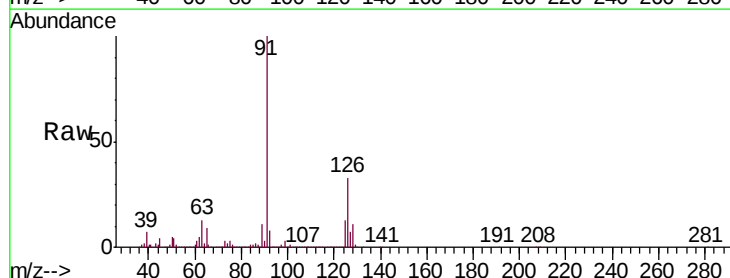
Acq: 06 Aug 2018 20:27

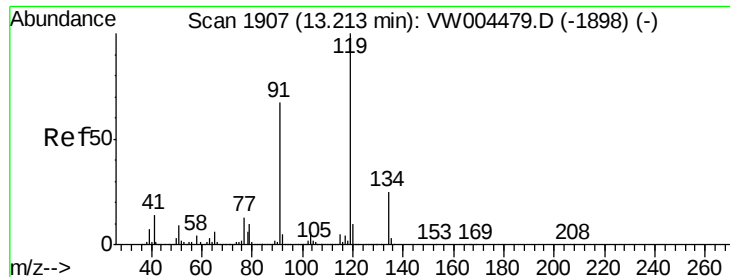
Tgt Ion: 91 Resp: 3164600

Ion Ratio Lower Upper

91 100

126 33.6 16.5 49.5

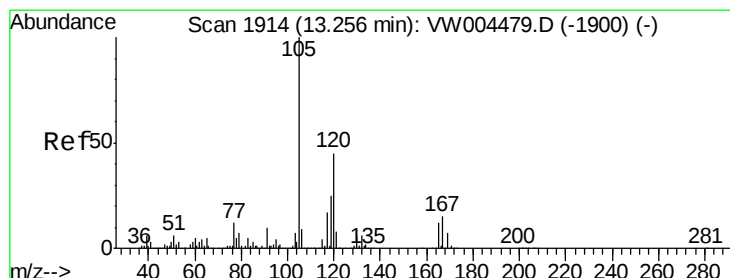
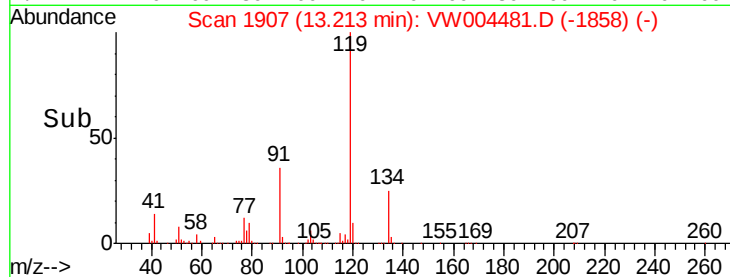
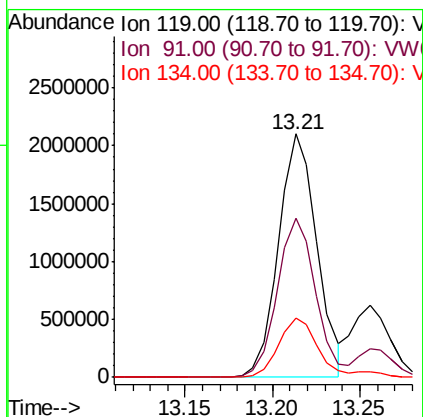
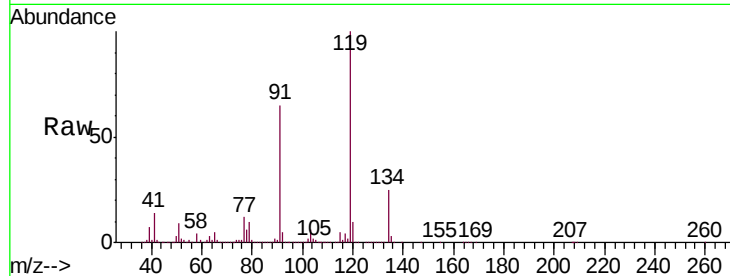




#83  
 tert-Butylbenzene  
 Concen: 108.503 ug/l  
 RT: 13.21 min Scan# 1907  
 Delta R.T. 0.00 min  
 Lab File: VW004481.D  
 Acq: 06 Aug 2018 20:27

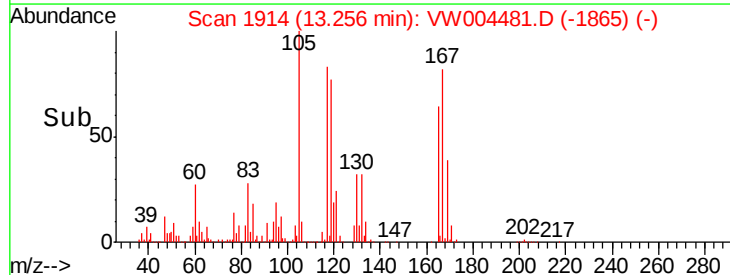
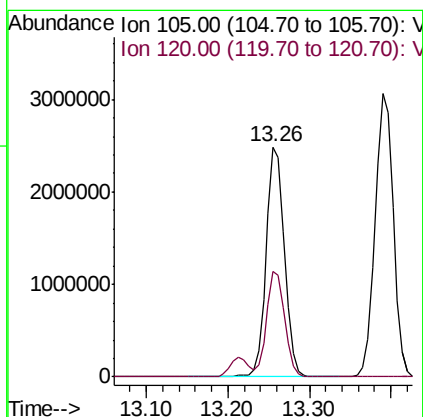
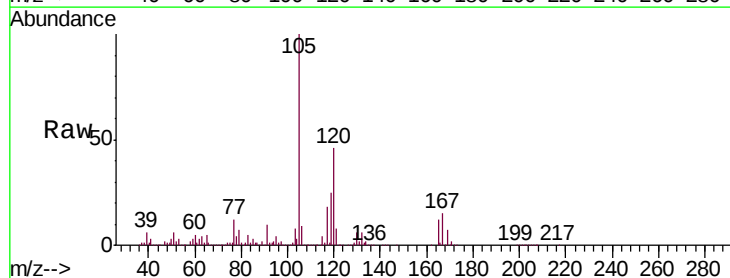
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDIC100

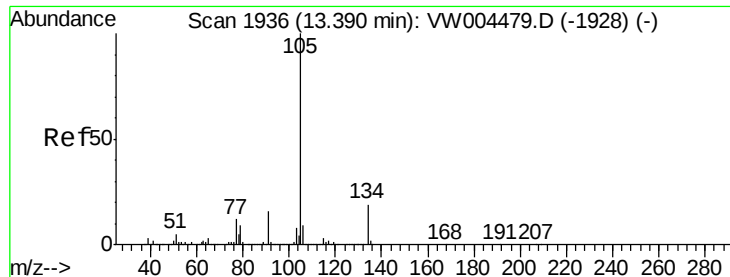
Tgt Ion:119 Resp: 3218692  
 Ion Ratio Lower Upper  
 119 100  
 91 65.9 33.3 99.8  
 134 26.2 12.2 36.6



#84  
 1,2,4-Trimethylbenzene  
 Concen: 105.773 ug/l  
 RT: 13.26 min Scan# 1914  
 Delta R.T. 0.00 min  
 Lab File: VW004481.D  
 Acq: 06 Aug 2018 20:27

Tgt Ion:105 Resp: 3856884  
 Ion Ratio Lower Upper  
 105 100  
 120 45.2 22.6 67.8





#85

sec-Butylbenzene

Concen: 109.002 ug/l

RT: 13.39 min Scan# 1936

Delta R.T. 0.00 min

Lab File: VW004481.D

Acq: 06 Aug 2018 20:27

Instrument :

MSVOA\_W

ClientSampleId :

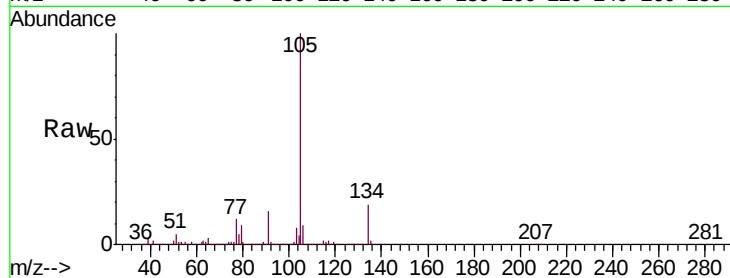
VSTDIC100

Tgt Ion:105 Resp: 4729080

Ion Ratio Lower Upper

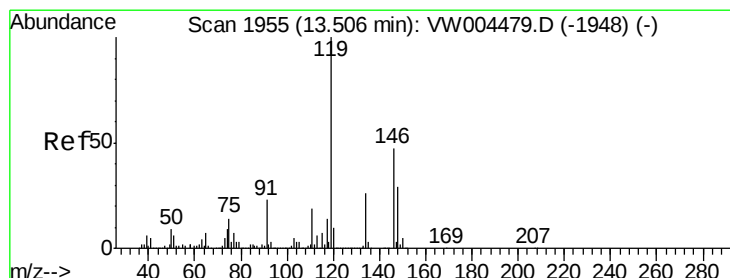
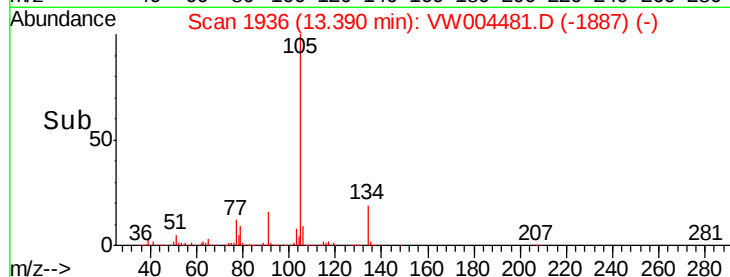
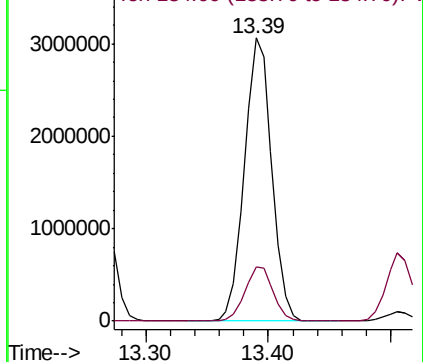
105 100

134 19.5 9.8 29.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 106.145 ug/l

RT: 13.51 min Scan# 1955

Delta R.T. 0.00 min

Lab File: VW004481.D

Acq: 06 Aug 2018 20:27

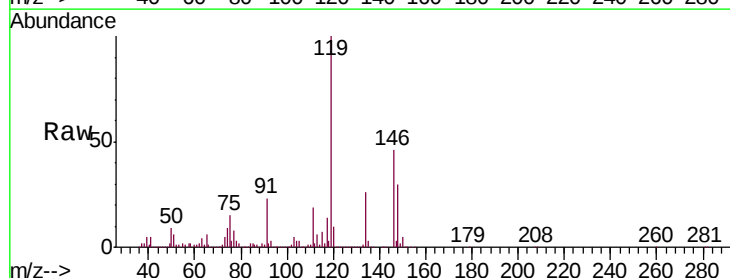
Tgt Ion:119 Resp: 4123357

Ion Ratio Lower Upper

119 100

134 26.3 13.1 39.1

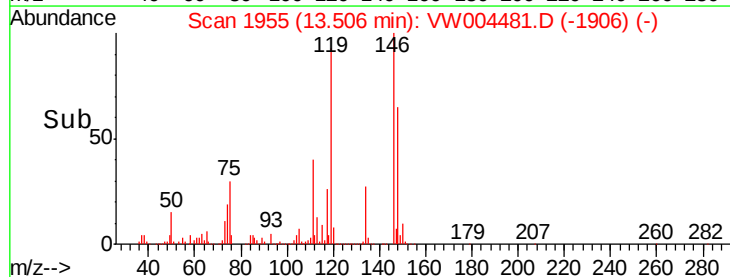
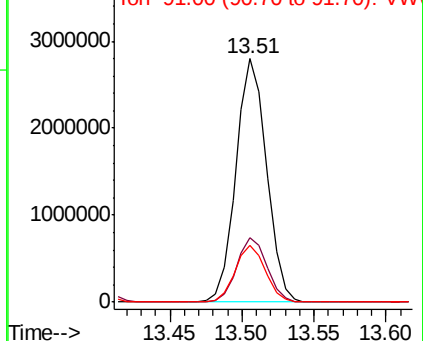
91 22.9 11.4 34.1

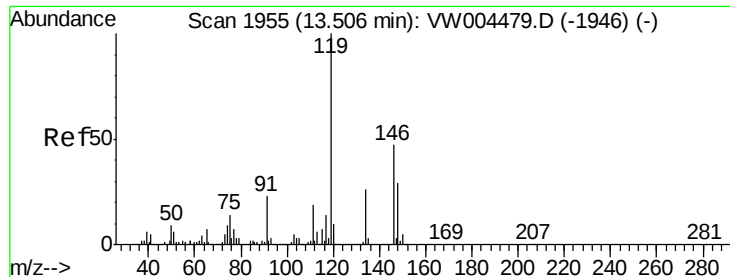


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#87

1,3-Dichlorobenzene

Concen: 102.058 ug/l

RT: 13.51 min Scan# 1955

Delta R.T. 0.00 min

Lab File: VW004481.D

Acq: 06 Aug 2018 20:27

Instrument :

MSVOA\_W

ClientSampleId :

VSTDIC100

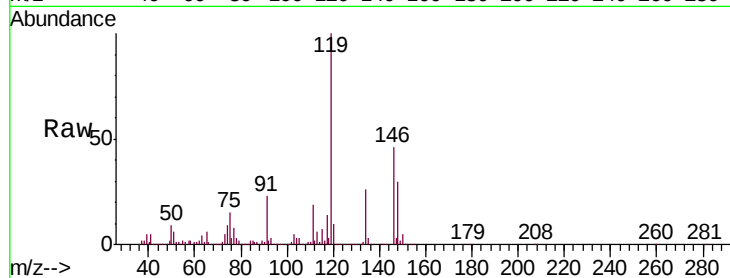
Tgt Ion:146 Resp: 2047646

Ion Ratio Lower Upper

146 100

111 40.2 20.0 59.9

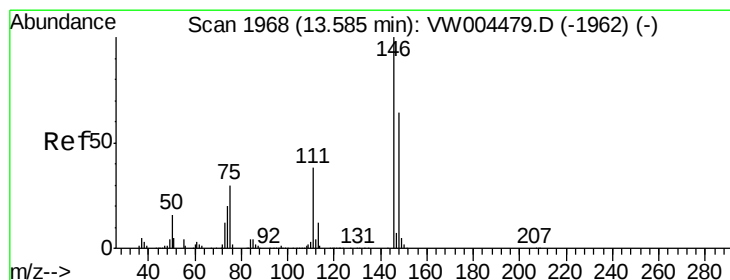
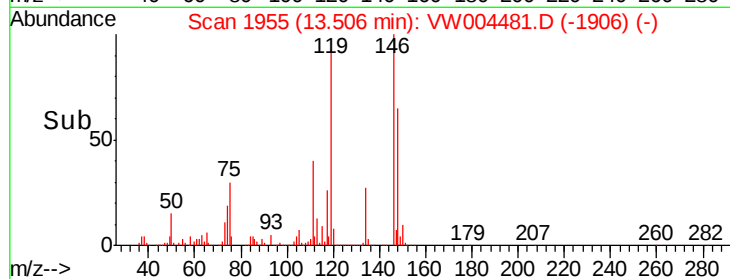
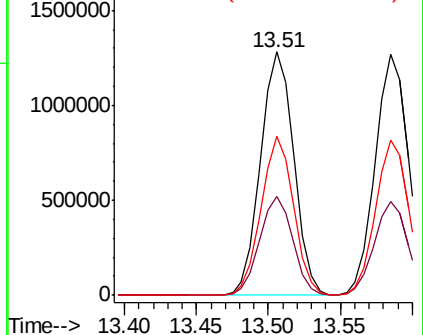
148 63.7 31.7 95.1



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#88

1,4-Dichlorobenzene

Concen: 100.805 ug/l

RT: 13.58 min Scan# 1968

Delta R.T. 0.00 min

Lab File: VW004481.D

Acq: 06 Aug 2018 20:27

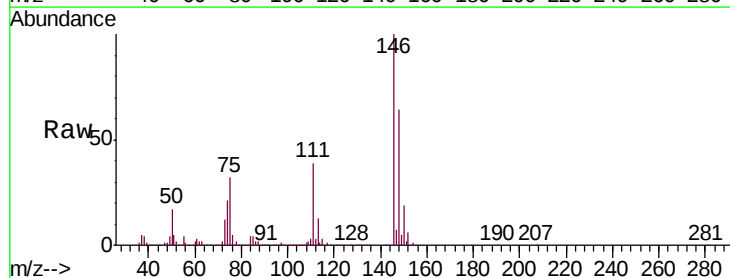
Tgt Ion:146 Resp: 2016962

Ion Ratio Lower Upper

146 100

111 38.9 19.6 58.8

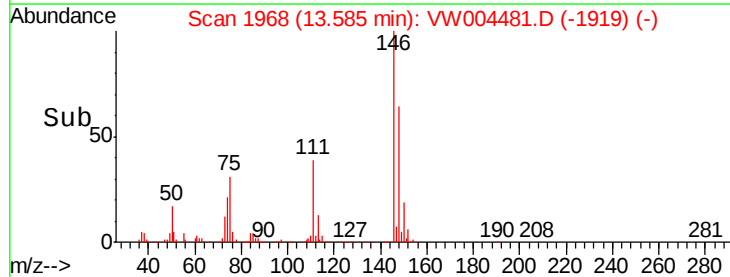
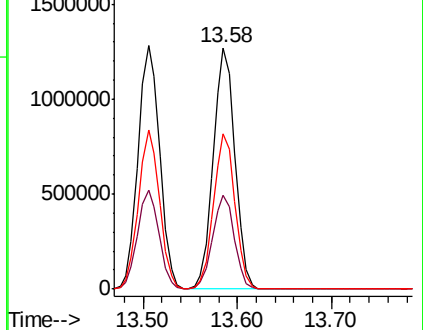
148 63.9 31.9 95.5

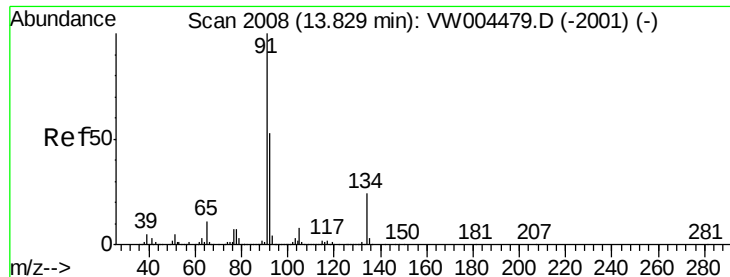


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#89

n-Butylbenzene

Concen: 110.405 ug/l

RT: 13.83 min Scan# 2009

Delta R.T. 0.01 min

Lab File: VW004481.D

Acq: 06 Aug 2018 20:27

Instrument :

MSVOA\_W

ClientSampleId :

VSTDIC100

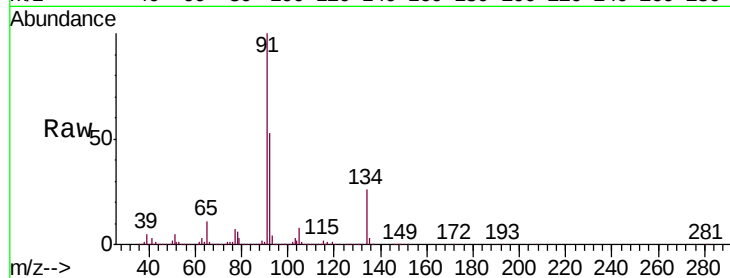
Tgt Ion: 91 Resp: 4042724

Ion Ratio Lower Upper

91 100

92 53.1 26.4 79.0

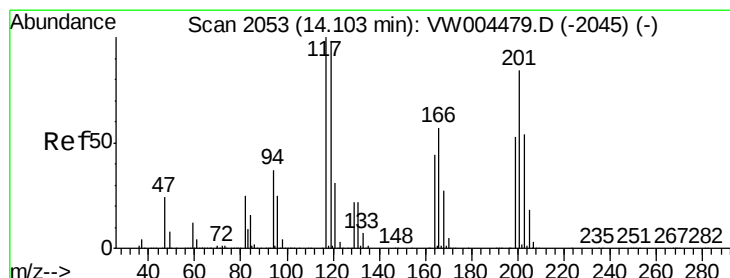
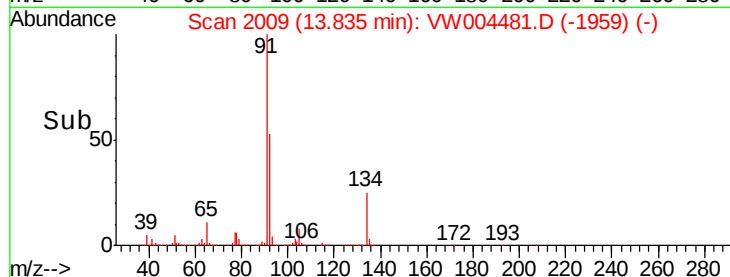
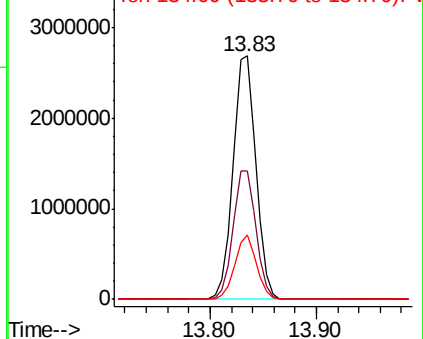
134 25.1 12.4 37.2



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 92.00 (91.70 to 92.70): VW

Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 106.845 ug/l

RT: 14.10 min Scan# 2053

Delta R.T. 0.00 min

Lab File: VW004481.D

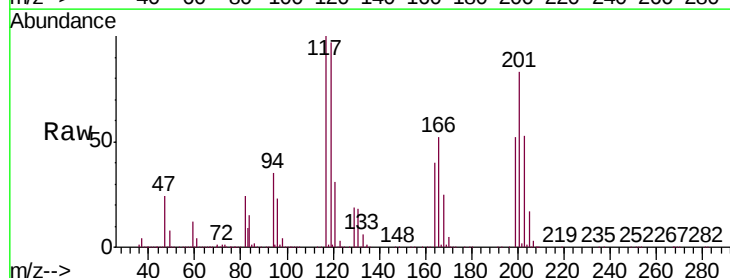
Acq: 06 Aug 2018 20:27

Tgt Ion: 117 Resp: 742081

Ion Ratio Lower Upper

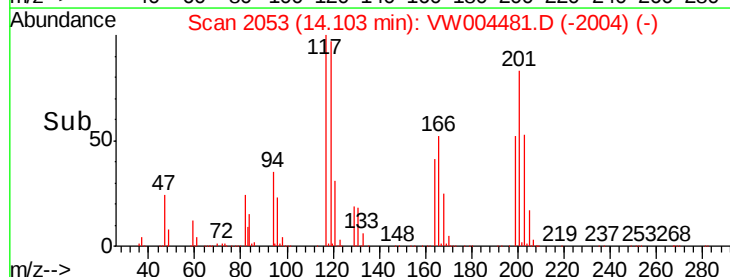
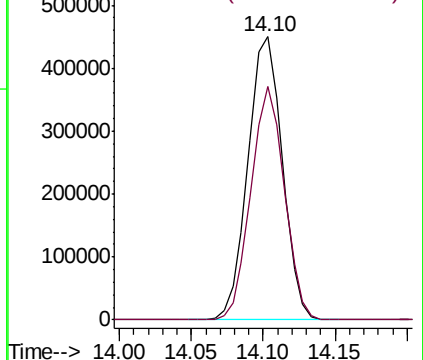
117 100

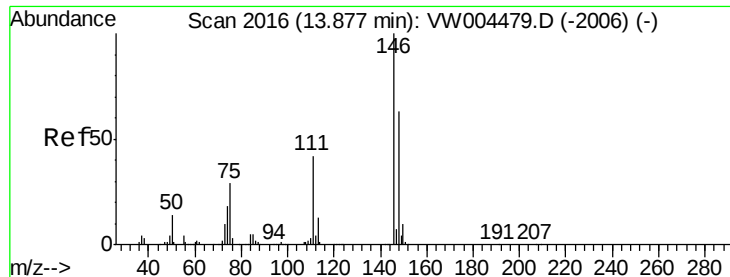
201 80.3 40.1 120.3



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V





#91

1,2-Dichlorobenzene

Concen: 103.767 ug/l

RT: 13.88 min Scan# 2016

Delta R.T. 0.00 min

Lab File: VW004481.D

Acq: 06 Aug 2018 20:27

Instrument :

MSVOA\_W

ClientSampleId :

VSTDIC100

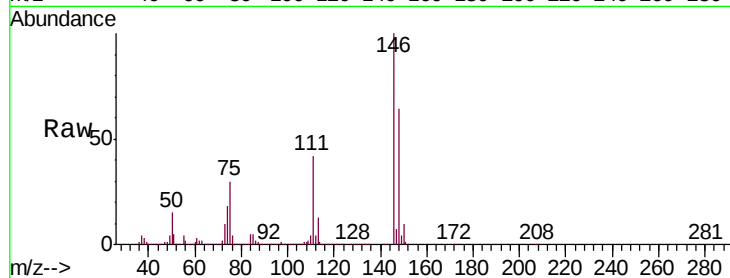
Tgt Ion:146 Resp: 1866738

Ion Ratio Lower Upper

146 100

111 41.4 20.8 62.2

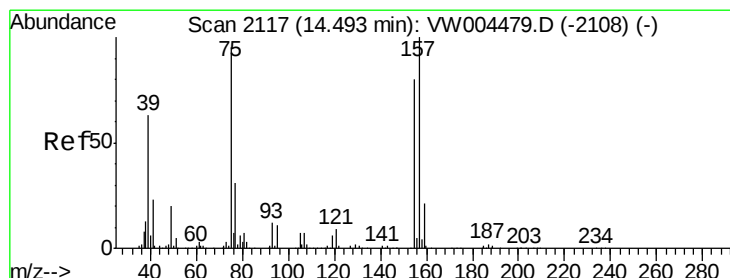
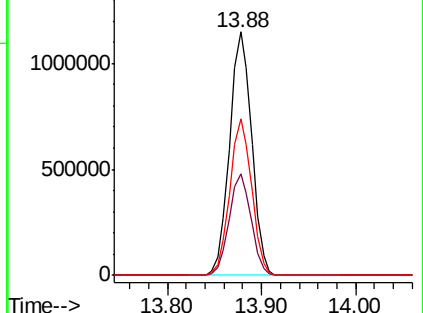
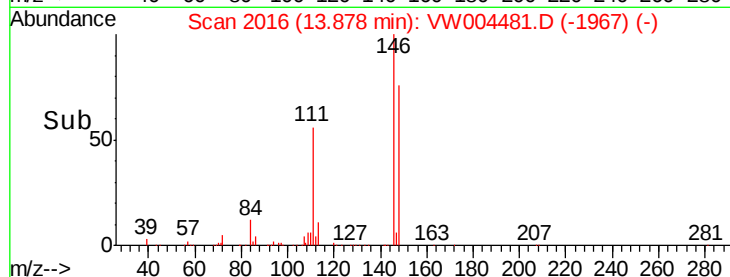
148 63.6 31.8 95.4



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 112.688 ug/l

RT: 14.49 min Scan# 2117

Delta R.T. 0.00 min

Lab File: VW004481.D

Acq: 06 Aug 2018 20:27

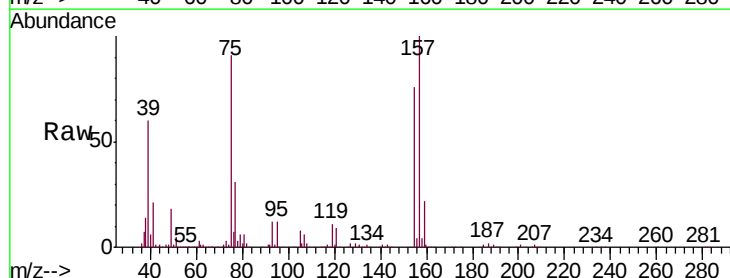
Tgt Ion: 75 Resp: 144871

Ion Ratio Lower Upper

75 100

155 83.0 41.3 123.7

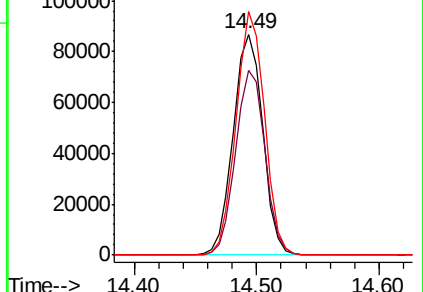
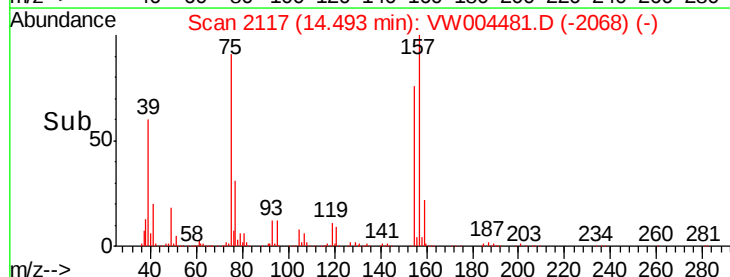
157 106.4 52.6 157.8

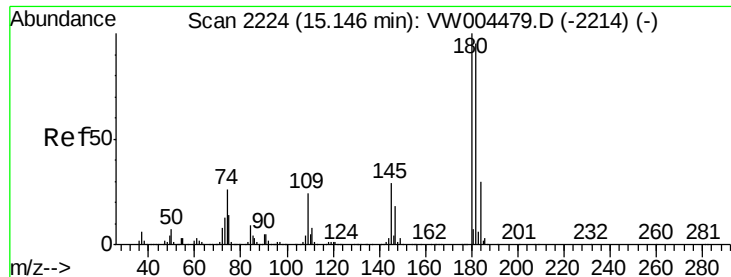


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

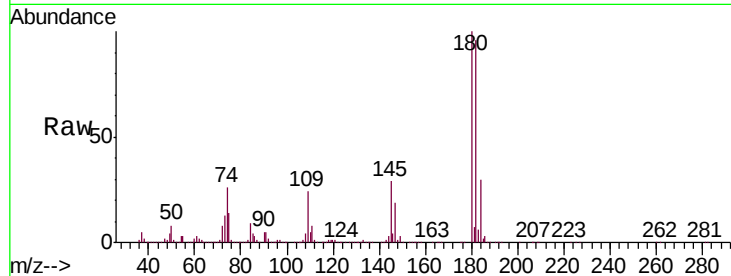




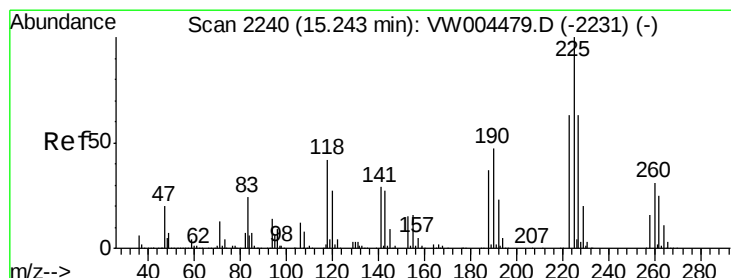
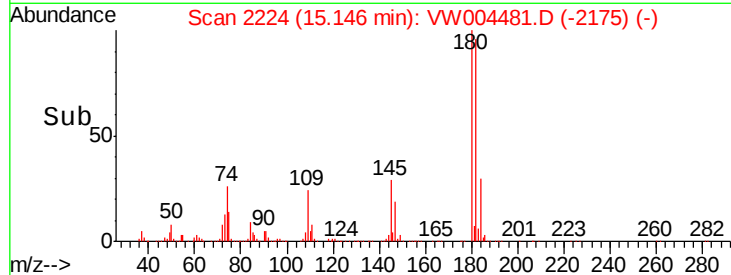
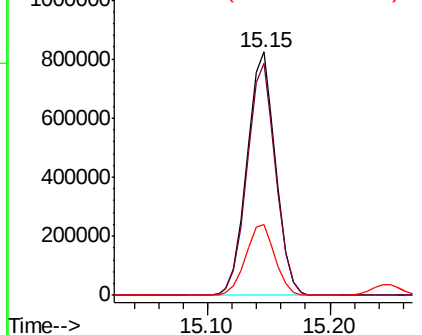
#93  
 1,2,4-Trichlorobenzene  
 Concen: 105.716 ug/l  
 RT: 15.15 min Scan# 2224  
 Delta R.T. 0.00 min  
 Lab File: VW004481.D  
 Acq: 06 Aug 2018 20:27

Instrument :  
 MSVOA\_W  
 ClientSampled :  
 VSTDIC100

Tgt Ion:180 Resp: 1333663  
 Ion Ratio Lower Upper  
 180 100  
 182 95.4 47.9 143.6  
 145 30.1 14.9 44.9

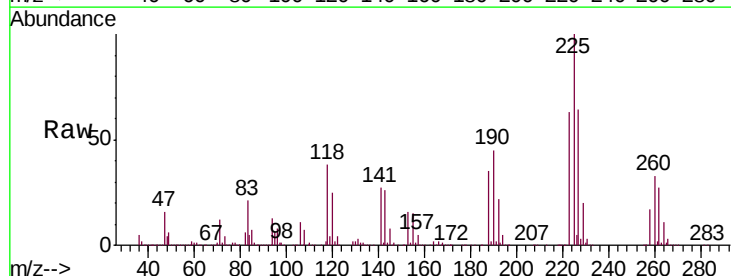


Abundance Ion 179.80 (179.50 to 180.50): V  
 Ion 181.80 (181.50 to 182.50): V  
 Ion 144.80 (144.50 to 145.50): V

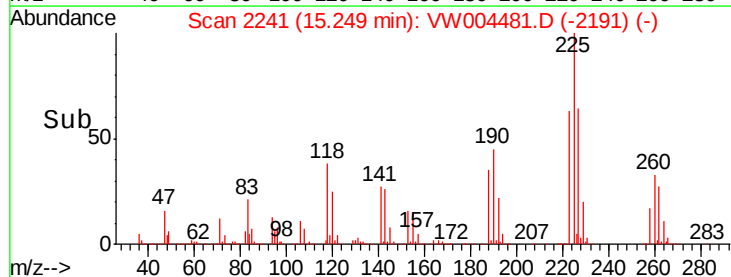
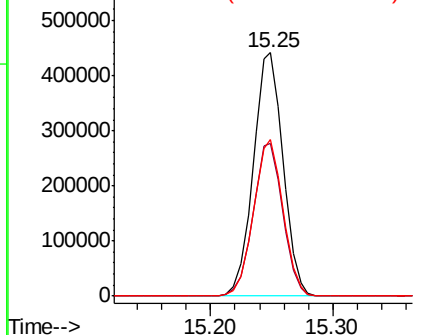


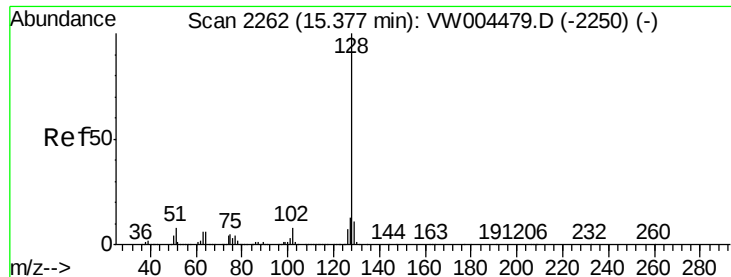
#94  
 Hexachlorobutadiene  
 Concen: 97.435 ug/l  
 RT: 15.25 min Scan# 2241  
 Delta R.T. 0.01 min  
 Lab File: VW004481.D  
 Acq: 06 Aug 2018 20:27

Tgt Ion:225 Resp: 747207  
 Ion Ratio Lower Upper  
 225 100  
 223 62.7 31.3 93.8  
 227 63.8 31.8 95.4



Abundance Ion 224.70 (224.40 to 225.40): V  
 Ion 222.70 (222.40 to 223.40): V  
 Ion 226.70 (226.40 to 227.40): V

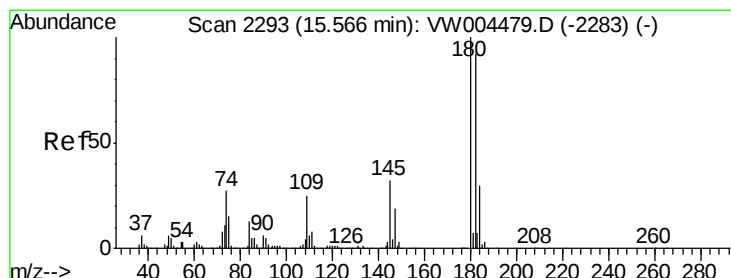
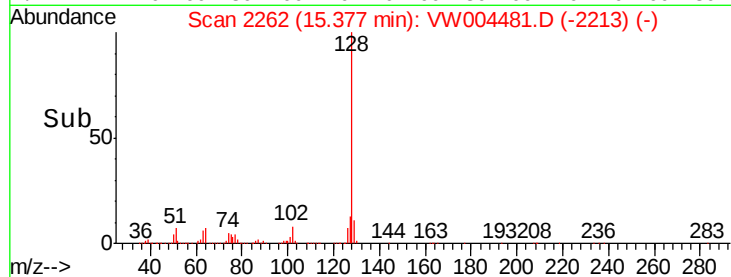
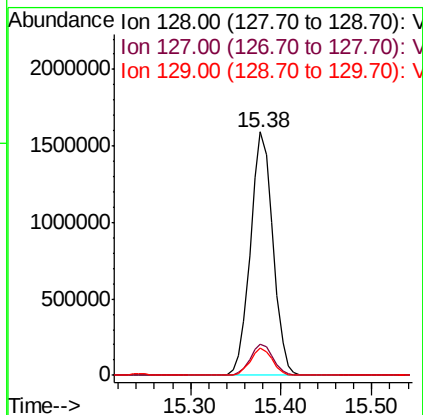
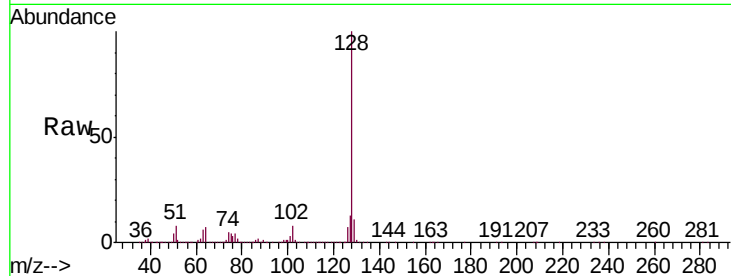




#95  
Naphthalene  
Concen: 123.387 ug/l  
RT: 15.38 min Scan# 2262  
Delta R.T. 0.00 min  
Lab File: VW004481.D  
Acq: 06 Aug 2018 20:27

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDIC100

Tgt Ion:128 Resp: 2727306  
Ion Ratio Lower Upper  
128 100  
127 13.1 10.3 15.5  
129 11.0 8.6 13.0



#96  
1,2,3-Trichlorobenzene  
Concen: 107.679 ug/l  
RT: 15.57 min Scan# 2293  
Delta R.T. 0.00 min  
Lab File: VW004481.D  
Acq: 06 Aug 2018 20:27

Tgt Ion:180 Resp: 1197074  
Ion Ratio Lower Upper  
180 100  
182 95.8 47.0 141.2  
145 31.9 15.9 47.6

