

Data File : VW013321.D  
Acq On : 27 Sep 2019 14:26  
Operator : SY/VA  
Sample : MDL06  
Misc : 5.00G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
MDL06

Quant Time: Sep 28 03:43:12 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM092619S.M  
Quant Title : VOC Analysis  
QLast Update : Sat Sep 28 03:37:10 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 476640   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 423810   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 210406   | 25.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 132786   | 23.36    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 93.44%  |
| 7) Chloroethane-d5             | 2.89   | 69    | 105808   | 23.19    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 92.76%  |
| 10) 1,1-Dichloroethene-d2      | 4.02   | 63    | 205596   | 18.37    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 73.48%  |
| 20) 2-Butanone-d5              | 7.07   | 46    | 99795    | 50.80    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 101.60% |
| 24) Chloroform-d               | 7.65   | 84    | 255004   | 23.73    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 94.92%  |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 145319   | 25.03    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 100.12% |
| 29) Benzene-d6                 | 8.27   | 84    | 559113   | 24.30    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 97.20%  |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 168232   | 24.53    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 98.12%  |
| 37) Toluene-d8                 | 10.32  | 98    | 525970   | 24.27    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 97.08%  |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 75326    | 24.45    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 97.80%  |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 77881    | 51.91    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 103.82% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 145705   | 25.02    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 100.08% |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 190205   | 25.31    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 101.24% |

#### Target Compounds

|                                |      |     |       |              | Qvalue |
|--------------------------------|------|-----|-------|--------------|--------|
| 2) Dichlorodifluoromethane     | 2.01 | 85  | 3758  | 1.260 ug/L # | 79     |
| 3) Chloromethane               | 2.21 | 50  | 7810  | 1.954 ug/L   | 84     |
| 5) Vinyl chloride              | 2.36 | 62  | 10292 | 1.862 ug/L # | 67     |
| 6) Bromomethane                | 2.77 | 94  | 6562  | 1.867 ug/L   | 98     |
| 8) Chloroethane                | 2.92 | 64  | 6221  | 1.855 ug/L   | 94     |
| 9) Trichlorofluoromethane      | 3.26 | 101 | 5213  | 1.522 ug/L   | 97     |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.07 | 101 | 12589 | 2.325 ug/L # | 78     |
| 12) 1,1-Dichloroethene         | 4.04 | 96  | 11669 | 2.124 ug/L # | 1      |
| 13) Acetone                    | 4.13 | 43  | 10961 | 6.704 ug/L   | 75     |
| 14) Carbon disulfide           | 4.38 | 76  | 28842 | 1.849 ug/L   | 100    |
| 15) Methyl Acetate             | 4.67 | 43  | 3376  | 1.070 ug/L   | 98     |
| 16) Methylene chloride         | 4.92 | 84  | 20907 | 2.936 ug/L   | 95     |
| 17) Methyl tert-butyl Ether    | 5.42 | 73  | 19720 | 2.075 ug/L # | 80     |
| 18) trans-1,2-Dichloroethene   | 5.42 | 96  | 11595 | 1.974 ug/L   | 90     |
| 19) 1,1-Dichloroethane         | 6.21 | 63  | 21087 | 2.046 ug/L   | 93     |
| 21) 2-Butanone                 | 7.17 | 43  | 11152 | 4.736 ug/L   | 88     |
| 22) cis-1,2-Dichloroethene     | 7.17 | 96  | 13221 | 2.065 ug/L   | 94     |

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Response via : Initial Calibration

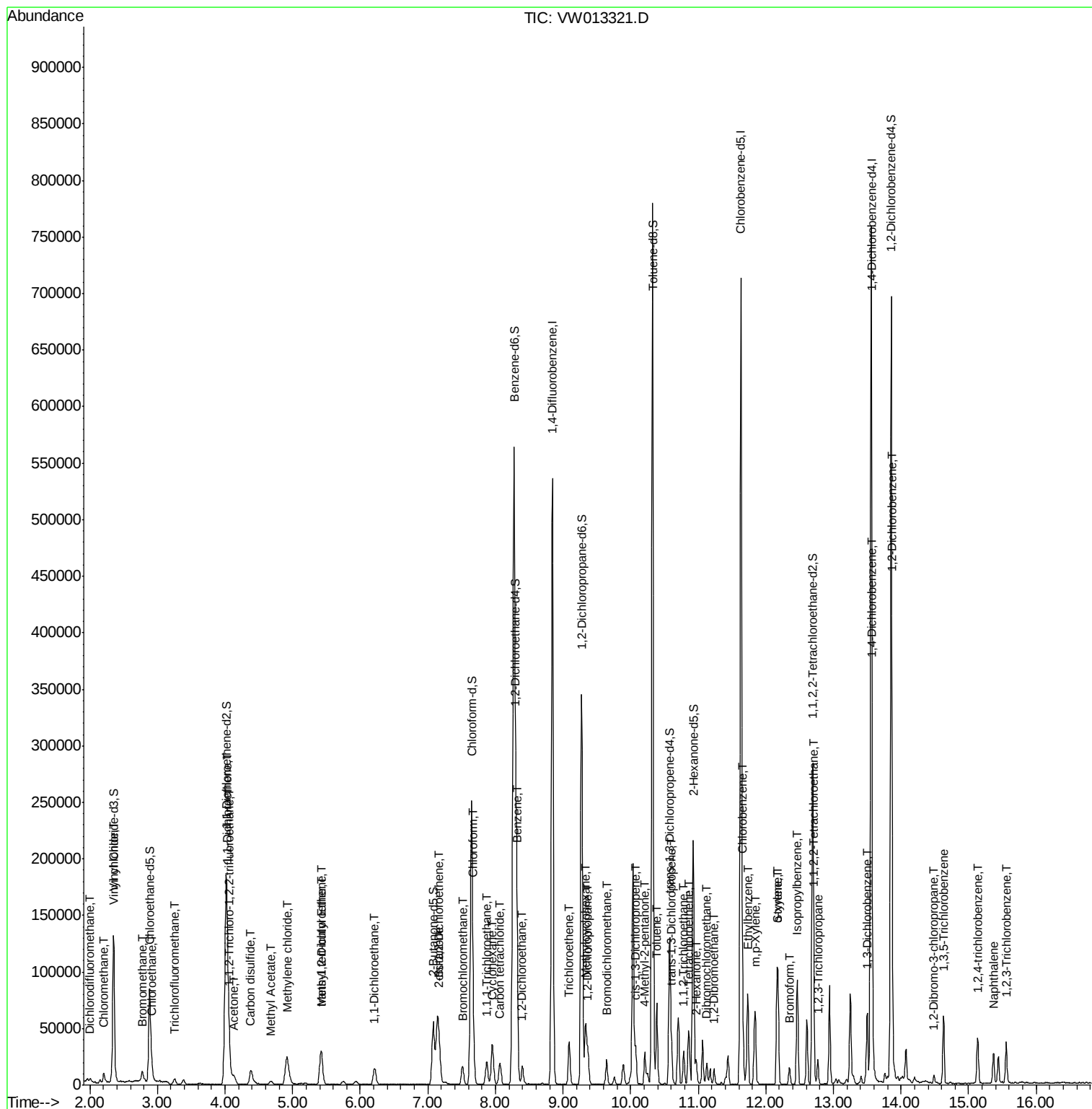
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 23) Bromochloromethane         | 7.51  | 128  | 5792     | 2.011 | ug/L   | 97       |
| 25) Chloroform                 | 7.67  | 83   | 21265    | 2.100 | ug/L   | 92       |
| 27) 1,2-Dichloroethane         | 8.40  | 62   | 13817    | 2.083 | ug/L # | 89       |
| 30) Cyclohexane                | 7.95  | 56   | 19038    | 1.870 | ug/L   | 98       |
| 31) 1,1,1-Trichloroethane      | 7.87  | 97   | 15723    | 1.933 | ug/L # | 87       |
| 32) Carbon tetrachloride       | 8.07  | 117  | 14919    | 1.924 | ug/L   | 98       |
| 34) Benzene                    | 8.32  | 78   | 48293    | 2.033 | ug/L   | 100      |
| 35) Trichloroethene            | 9.09  | 95   | 13048    | 2.090 | ug/L   | 99       |
| 36) Methylcyclohexane          | 9.34  | 83   | 20792    | 1.870 | ug/L   | 95       |
| 40) 1,2-Dichloropropane        | 9.37  | 63   | 12406    | 2.122 | ug/L   | 98       |
| 41) Bromodichloromethane       | 9.65  | 83   | 14543    | 2.028 | ug/L   | 97       |
| 42) cis-1,3-Dichloropropene    | 10.07 | 75   | 18039    | 1.932 | ug/L   | 94       |
| 43) 4-Methyl-2-pentanone       | 10.21 | 43   | 21516    | 4.808 | ug/L   | 95       |
| 44) Toluene                    | 10.38 | 91   | 53347    | 2.062 | ug/L   | 99       |
| 45) trans-1,3-Dichloropropene  | 10.60 | 75   | 17898    | 2.385 | ug/L   | 92       |
| 46) 1,1,2-Trichloroethane      | 10.79 | 97   | 10017    | 2.187 | ug/L   | 95       |
| 47) Tetrachloroethene          | 10.86 | 164  | 11176    | 1.990 | ug/L   | 96       |
| 49) 2-Hexanone                 | 10.97 | 43   | 11880    | 3.693 | ug/L # | 90       |
| 50) Dibromochloromethane       | 11.13 | 129  | 10694    | 2.036 | ug/L   | 99       |
| 51) 1,2-Dibromoethane          | 11.24 | 107  | 9490     | 2.109 | ug/L # | 94       |
| 52) Chlorobenzene              | 11.66 | 112  | 34211    | 2.099 | ug/L   | 99       |
| 53) Ethylbenzene               | 11.73 | 91   | 56335    | 1.965 | ug/L   | 98       |
| 54) m,p-Xylene                 | 11.84 | 106  | 21847    | 1.984 | ug/L   | 89       |
| 55) o-xylene                   | 12.16 | 106  | 19899    | 1.915 | ug/L   | 90       |
| 56) Styrene                    | 12.18 | 104  | 33753    | 1.895 | ug/L   | 98       |
| 57) Isopropylbenzene           | 12.46 | 105  | 54760    | 1.949 | ug/L   | 97       |
| 58) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 12139    | 2.151 | ug/L   | 94       |
| 59) 1,2,3-Trichloropropane     | 12.77 | 75   | 9204     | 2.186 | ug/L   | 99       |
| 62) Bromoform                  | 12.35 | 173  | 6643     | 1.996 | ug/L # | 96       |
| 63) 1,3-Dichlorobenzene        | 13.50 | 146  | 26865    | 2.075 | ug/L   | 98       |
| 64) 1,4-Dichlorobenzene        | 13.58 | 146  | 27256    | 2.083 | ug/L   | 96       |
| 65) 1,2-Dichlorobenzene        | 13.87 | 146  | 24547    | 2.084 | ug/L   | 98       |
| 66) 1,2-Dibromo-3-chloropropan | 14.48 | 75   | 1673     | 1.803 | ug/L   | 93       |
| 67) 1,3,5-Trichlorobenzene     | 14.63 | 180  | 19524    | 1.959 | ug/L   | 98       |
| 68) 1,2,4-trichlorobenzene     | 15.13 | 180  | 14103    | 1.772 | ug/L   | 99       |
| 69) Naphthalene                | 15.37 | 128  | 23070    | 1.518 | ug/L   | 98       |
| 70) 1,2,3-Trichlorobenzene     | 15.56 | 180  | 13120    | 1.813 | ug/L   | 97       |

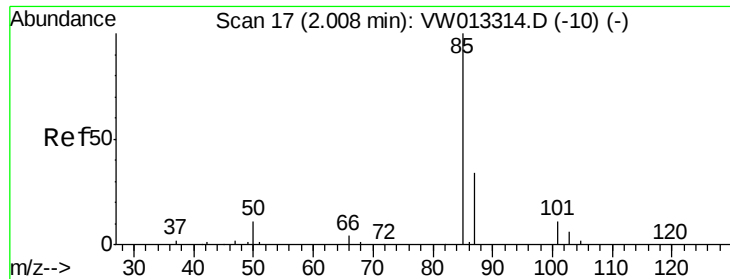
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 1.260 ug/L

RT: 2.01 min Scan# 17

Delta R.T. -0.00 min

Lab File: VW013321.D

Acq: 27 Sep 2019 14:26

Instrument :

MSVOA\_W

ClientSampleId :

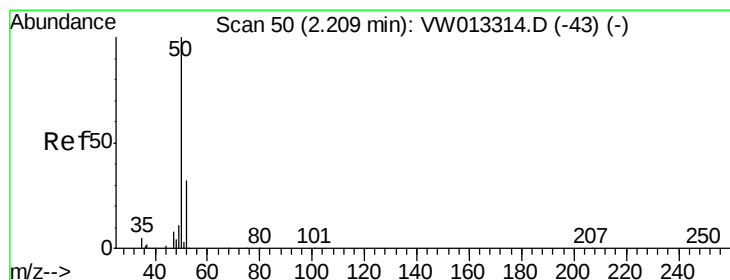
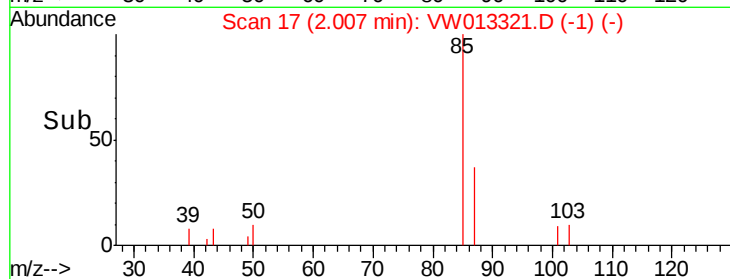
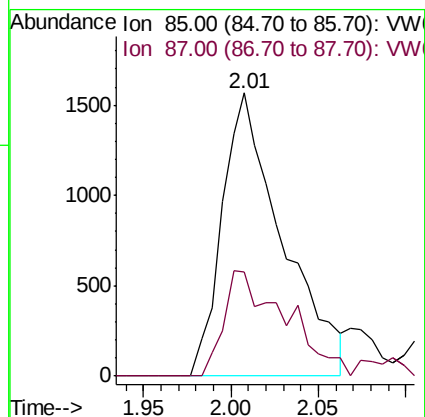
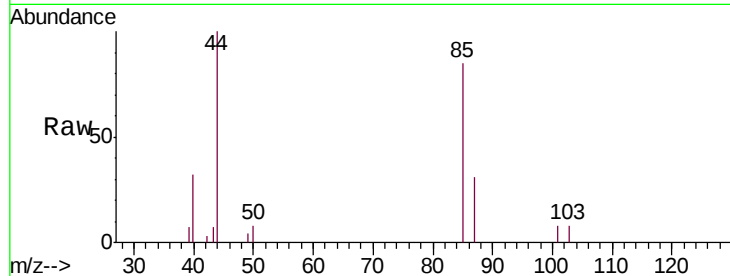
MDL06

Tgt Ion: 85 Resp: 3758

Ion Ratio Lower Upper

85 100

87 18.8 21.3 39.6#



#3

Chloromethane

Concen: 1.954 ug/L

RT: 2.21 min Scan# 50

Delta R.T. -0.00 min

Lab File: VW013321.D

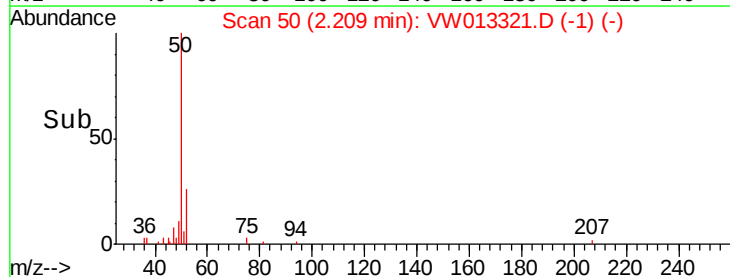
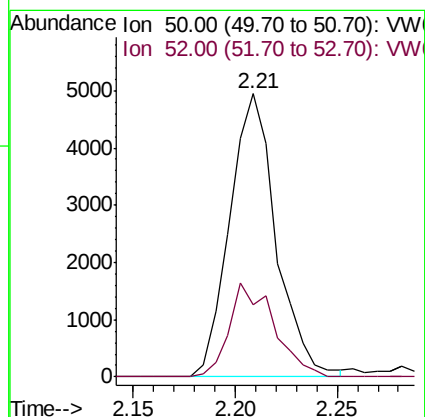
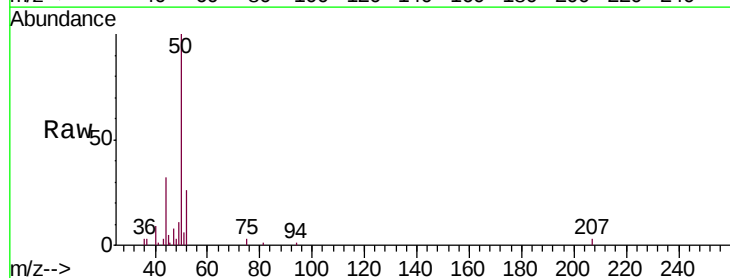
Acq: 27 Sep 2019 14:26

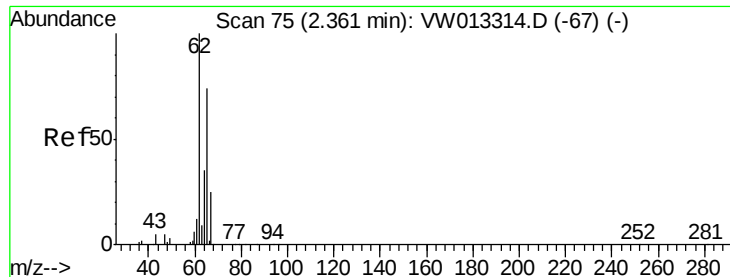
Tgt Ion: 50 Resp: 7810

Ion Ratio Lower Upper

50 100

52 25.5 24.4 45.4





#5

Vinyl chloride

Concen: 1.862 ug/L

RT: 2.36 min Scan# 75

Delta R.T. -0.00 min

Lab File: VW013321.D

Acq: 27 Sep 2019 14:26

Instrument :

MSVOA\_W

ClientSampleId :

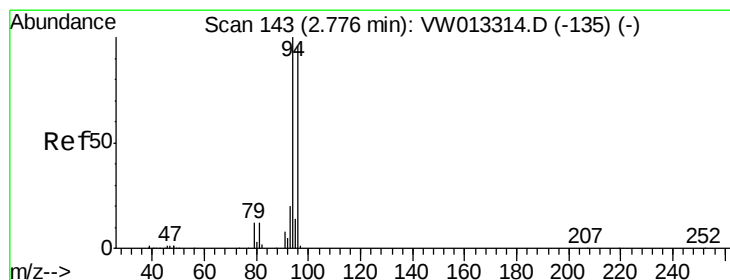
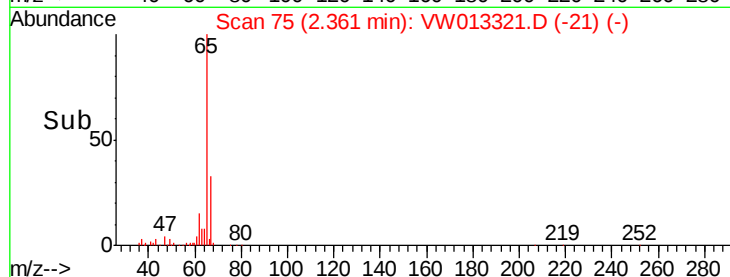
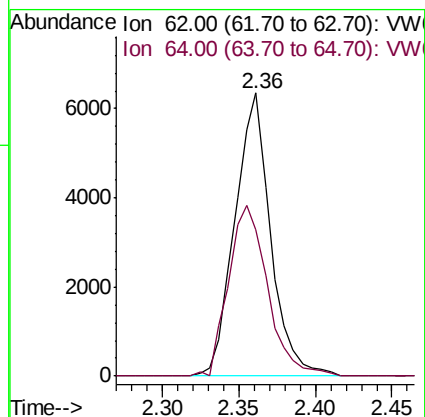
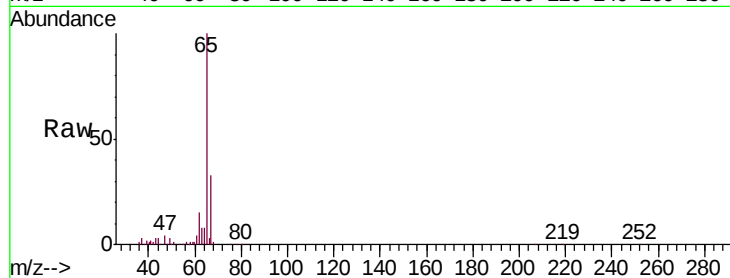
MDL06

Tgt Ion: 62 Resp: 10292

Ion Ratio Lower Upper

62 100

64 51.7 23.2 43.0#



#6

Bromomethane

Concen: 1.867 ug/L

RT: 2.77 min Scan# 142

Delta R.T. -0.01 min

Lab File: VW013321.D

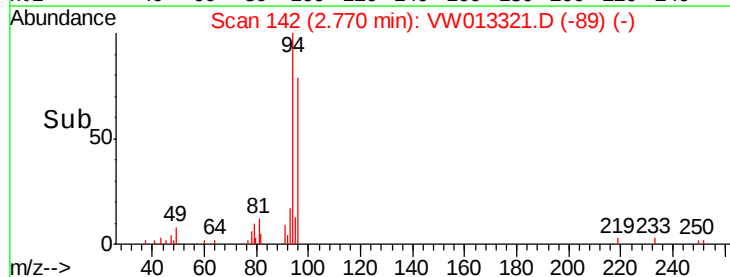
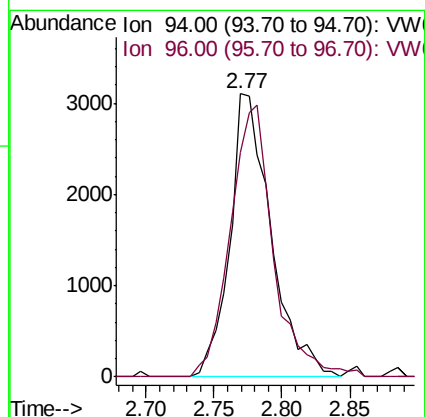
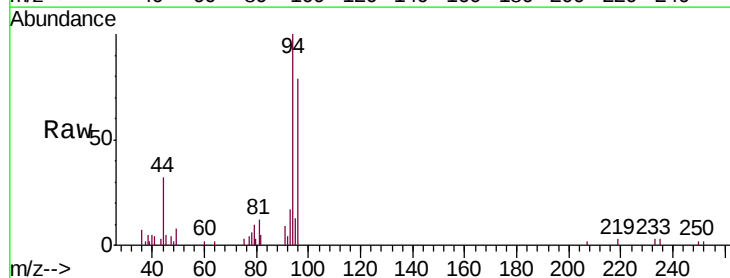
Acq: 27 Sep 2019 14:26

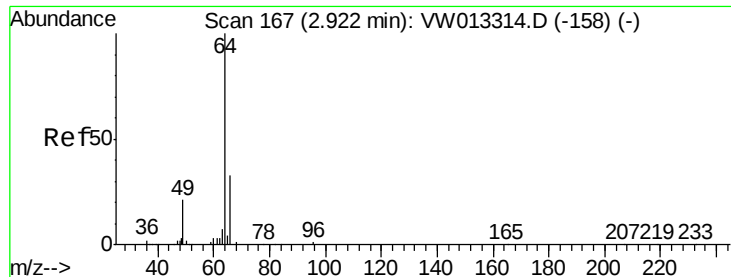
Tgt Ion: 94 Resp: 6562

Ion Ratio Lower Upper

94 100

96 99.1 9.7 184.3





#8

Chloroethane

Concen: 1.855 ug/L

RT: 2.92 min Scan# 167

Delta R.T. -0.00 min

Lab File: VW013321.D

Acq: 27 Sep 2019 14:26

Instrument :

MSVOA\_W

ClientSampleId :

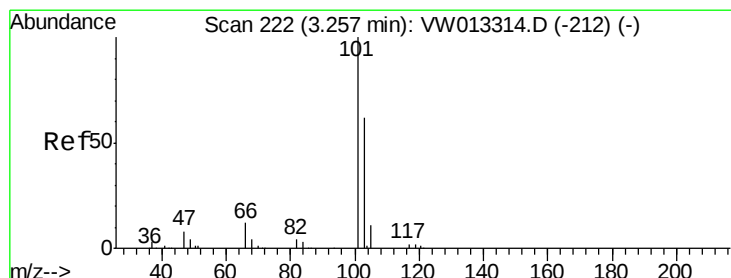
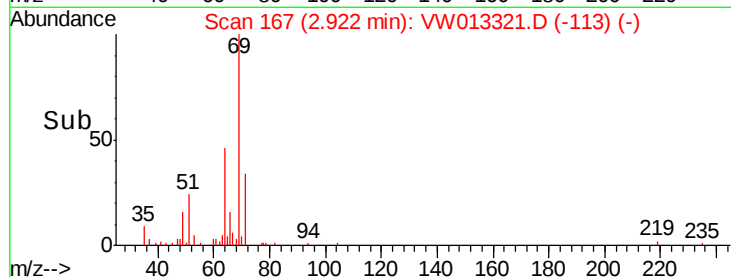
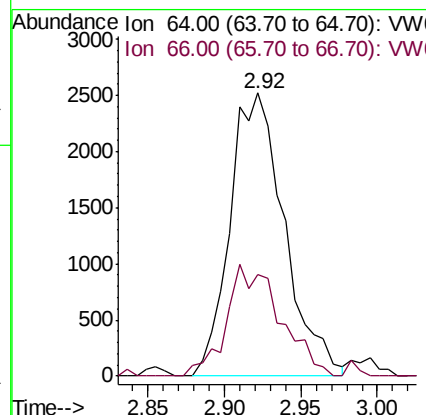
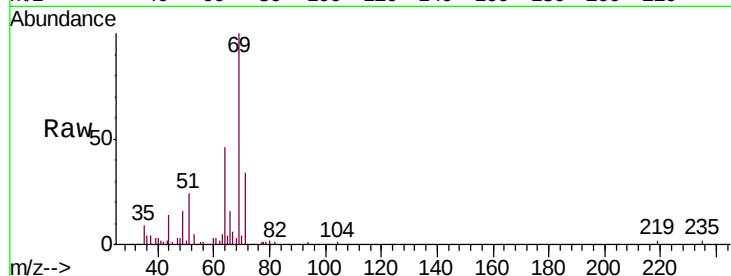
MDL06

Tgt Ion: 64 Resp: 6221

Ion Ratio Lower Upper

64 100

66 35.8 22.7 42.1



#9

Trichlorofluoromethane

Concen: 1.522 ug/L

RT: 3.26 min Scan# 222

Delta R.T. -0.00 min

Lab File: VW013321.D

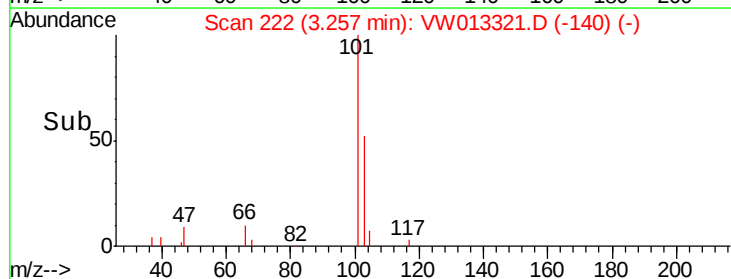
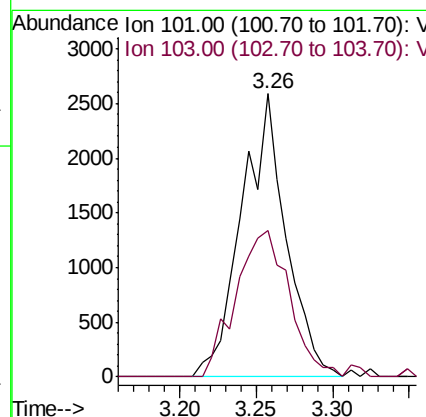
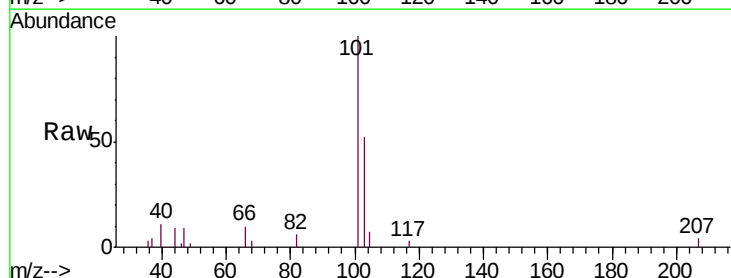
Acq: 27 Sep 2019 14:26

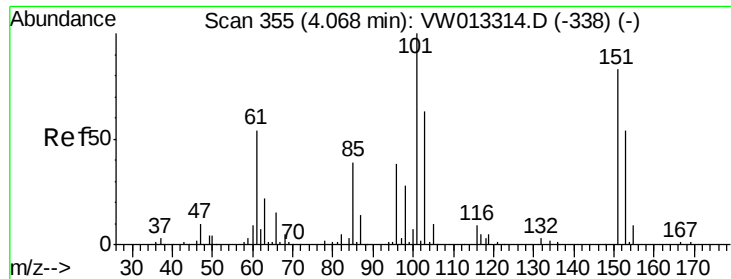
Tgt Ion: 101 Resp: 5213

Ion Ratio Lower Upper

101 100

103 62.4 45.2 84.0





#11

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 2.325 ug/L

RT: 4.07 min Scan# 355

Delta R.T. -0.00 min

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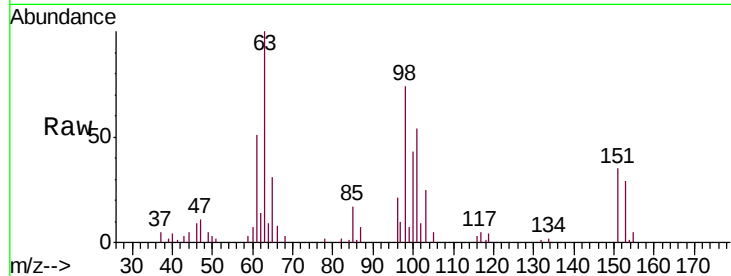
Tgt Ion:101 Resp: 12589

Ion Ratio Lower Upper

101 100

85 25.2 31.8 47.8#

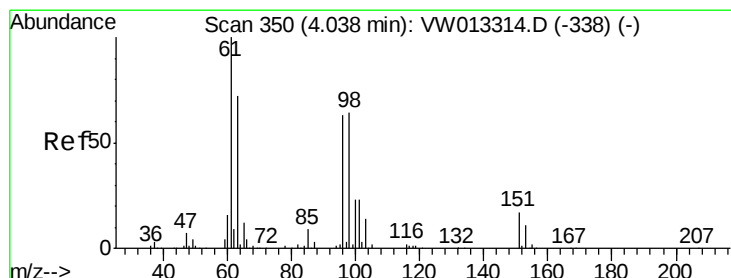
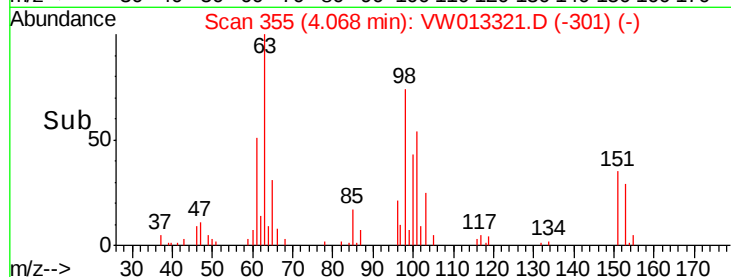
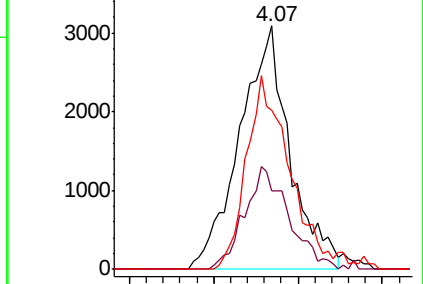
151 63.0 65.4 98.0#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VW

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 2.124 ug/L

RT: 4.04 min Scan# 350

Delta R.T. -0.00 min

Lab File: VW013321.D

Acq: 27 Sep 2019 14:26

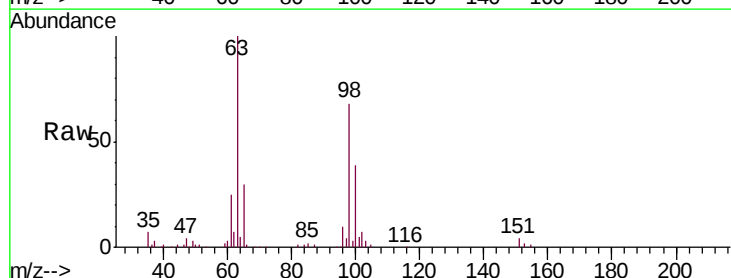
Tgt Ion: 96 Resp: 11669

Ion Ratio Lower Upper

96 100

61 249.1 115.9 215.3#

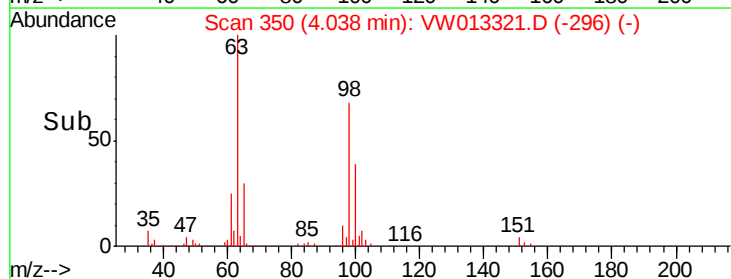
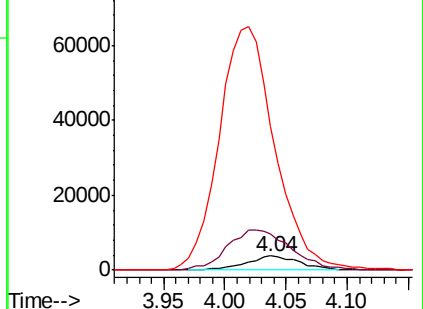
63 996.2 88.9 165.1#

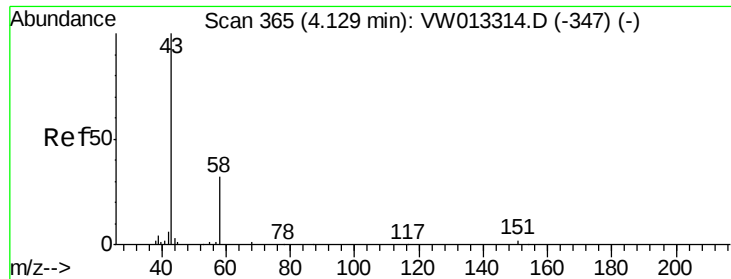


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 6.704 ug/L

RT: 4.13 min Scan# 365

Delta R.T. -0.00 min

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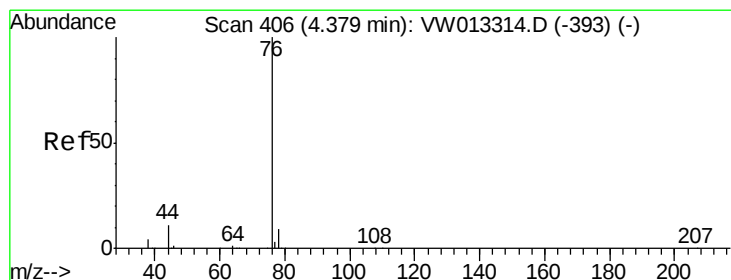
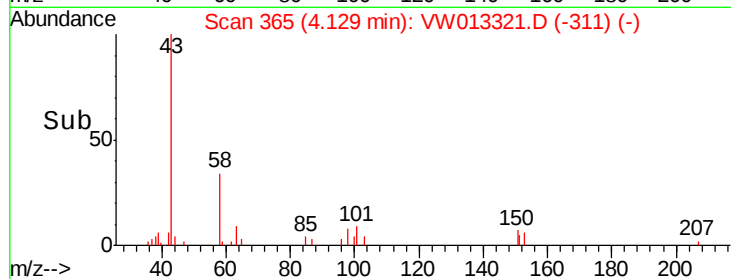
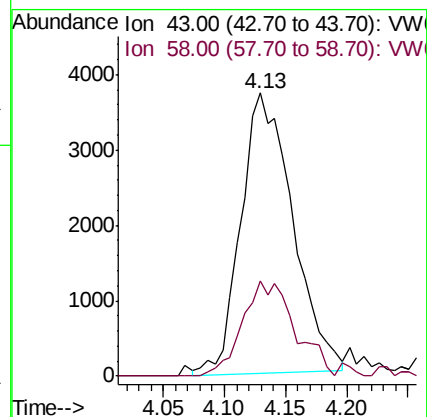
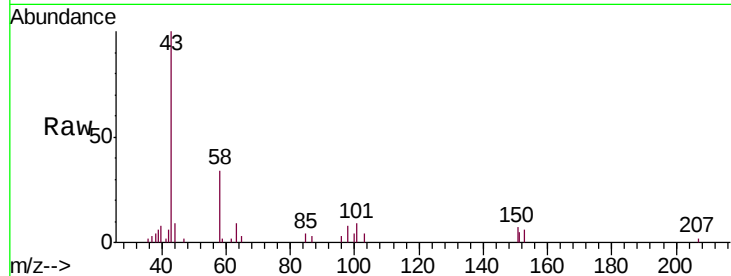
MDL06

Tgt Ion: 43 Resp: 10961

Ion Ratio Lower Upper

43 100

58 17.7 0.0 63.2



#14

Carbon disulfide

Concen: 1.849 ug/L

RT: 4.38 min Scan# 406

Delta R.T. -0.00 min

Lab File: VW013321.D

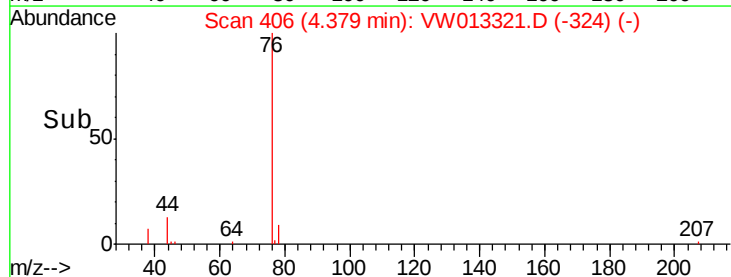
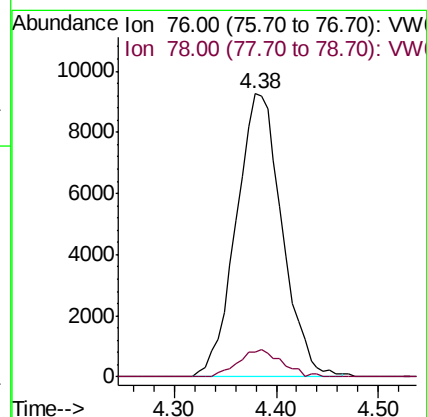
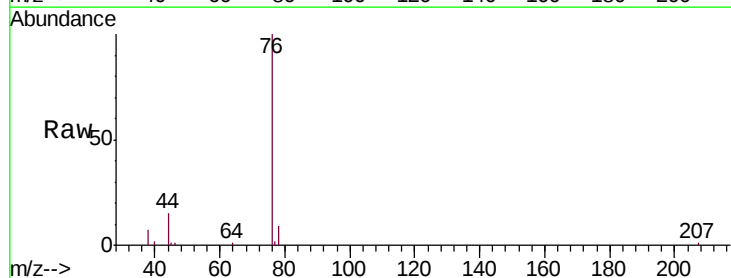
Acq: 27 Sep 2019 14:26

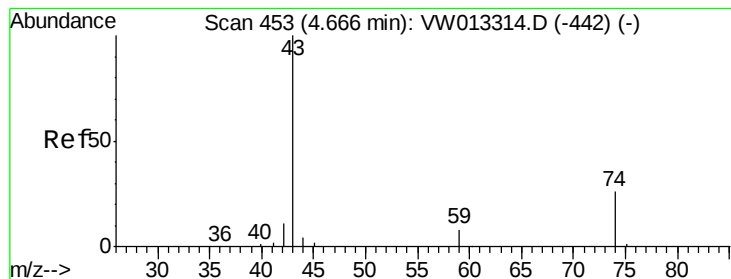
Tgt Ion: 76 Resp: 28842

Ion Ratio Lower Upper

76 100

78 9.0 7.2 10.8





#15

Methyl Acetate

Concen: 1.070 ug/L

RT: 4.67 min Scan# 453

Delta R.T. -0.00 min

Lab File: VW013321.D

Acq: 27 Sep 2019 14:26

Instrument :

MSVOA\_W

ClientSampleId :

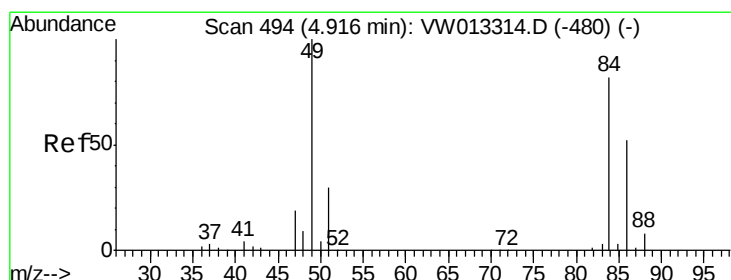
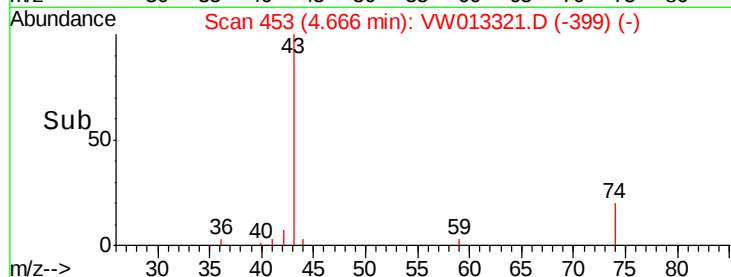
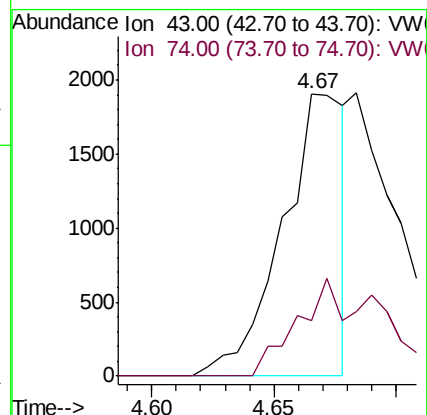
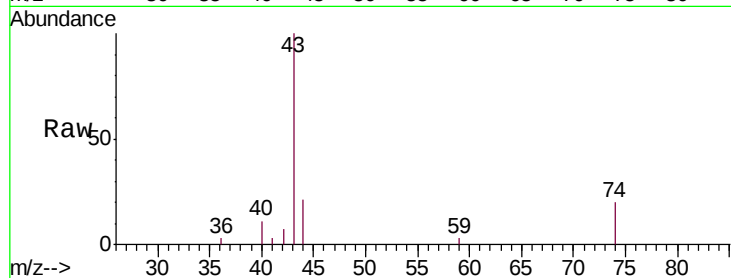
MDL06

Tgt Ion: 43 Resp: 3376

Ion Ratio Lower Upper

43 100

74 24.2 18.7 28.1



#16

Methylene chloride

Concen: 2.936 ug/L

RT: 4.92 min Scan# 494

Delta R.T. -0.00 min

Lab File: VW013321.D

Acq: 27 Sep 2019 14:26

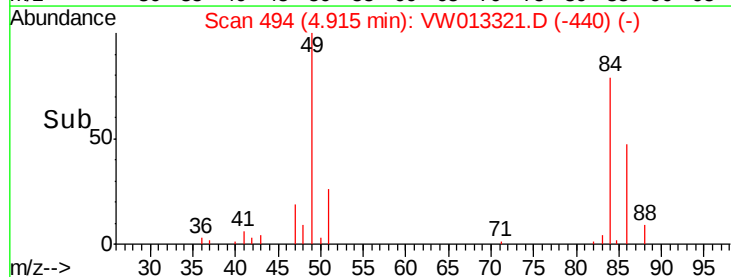
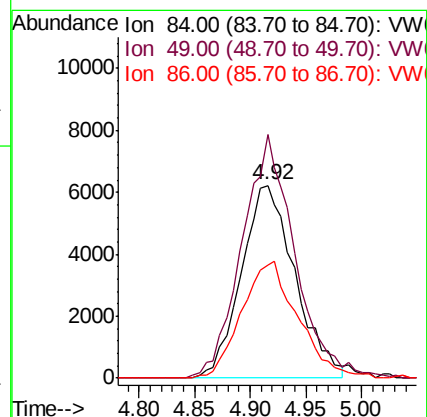
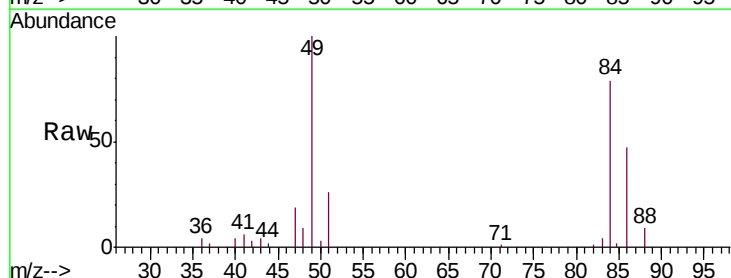
Tgt Ion: 84 Resp: 20907

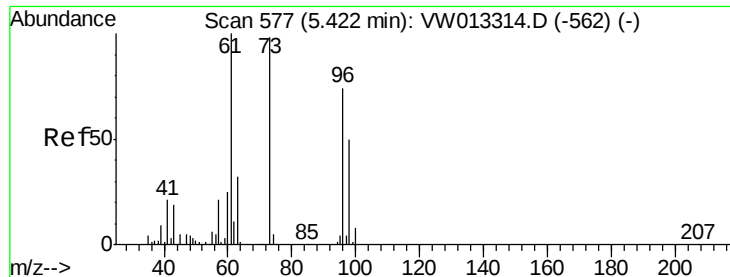
Ion Ratio Lower Upper

84 100

49 126.2 84.8 157.4

86 58.9 44.0 81.6

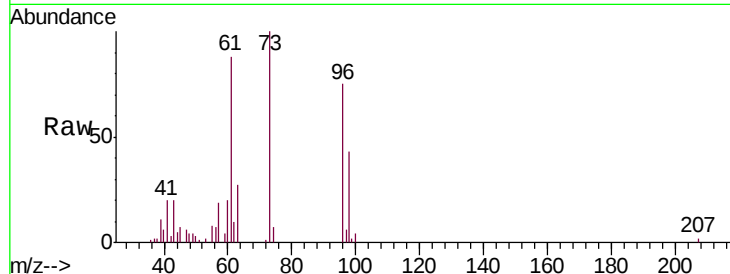




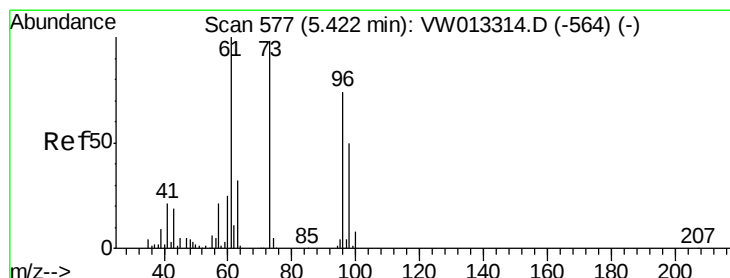
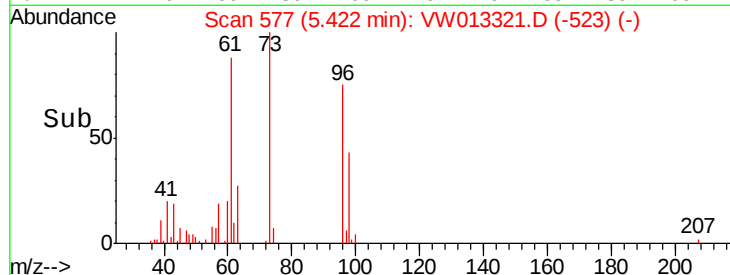
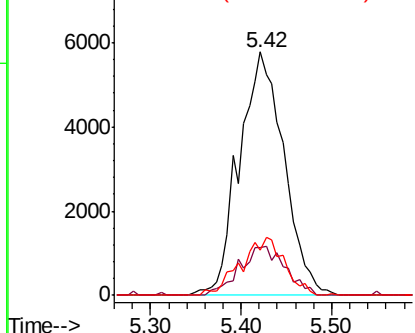
#17  
Methyl tert-butyl Ether  
Concen: 2.075 ug/L  
RT: 5.42 min Scan# 577  
Delta R.T. -0.00 min  
Lab File: VW013321.D  
Acq: 27 Sep 2019 14:26

Instrument :  
MSVOA\_W  
ClientSampleId :  
MDL06

Tgt Ion: 73 Resp: 19720  
Ion Ratio Lower Upper  
73 100  
43 15.7 15.3 22.9  
57 8.2 18.2 27.4#

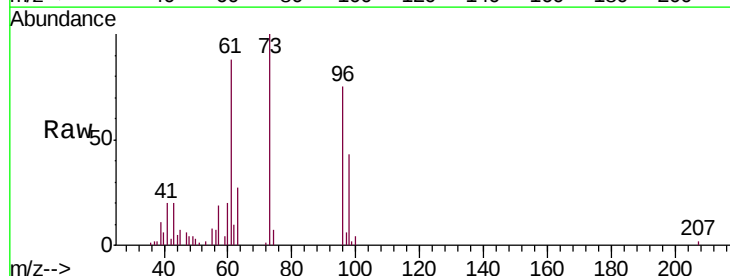


Abundance Ion 73.00 (72.70 to 73.70): VW  
Ion 43.00 (42.70 to 43.70): VW  
Ion 57.00 (56.70 to 57.70): VW

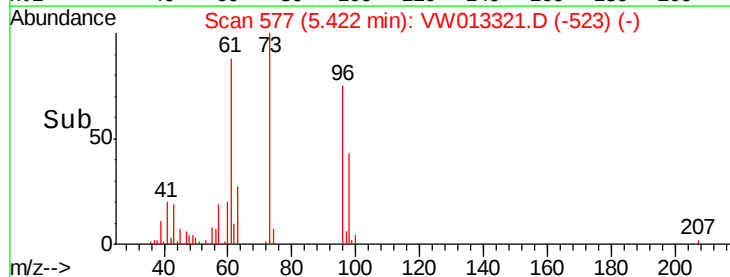
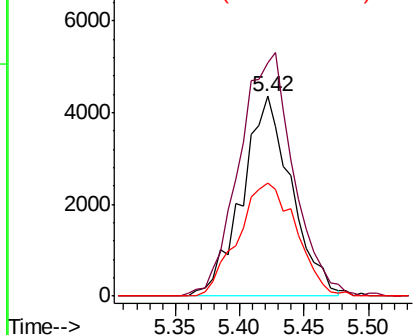


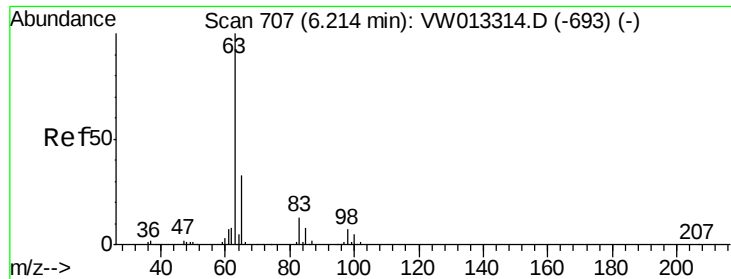
#18  
trans-1,2-Dichloroethene  
Concen: 1.974 ug/L  
RT: 5.42 min Scan# 577  
Delta R.T. -0.00 min  
Lab File: VW013321.D  
Acq: 27 Sep 2019 14:26

Tgt Ion: 96 Resp: 11595  
Ion Ratio Lower Upper  
96 100  
61 117.0 91.2 169.4  
98 58.8 44.7 82.9



Abundance Ion 96.00 (95.70 to 96.70): VW  
Ion 61.00 (60.70 to 61.70): VW  
Ion 98.00 (97.70 to 98.70): VW





#19

1,1-Dichloroethane

Concen: 2.046 ug/L

RT: 6.21 min Scan# 706

Delta R.T. -0.01 min

Lab File: VW013321.D

Acq: 27 Sep 2019 14:26

Instrument :

MSVOA\_W

ClientSampled :

MDL06

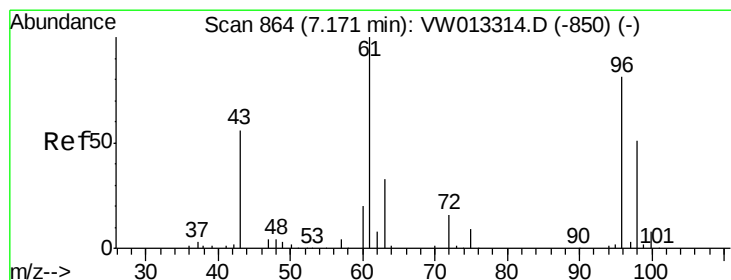
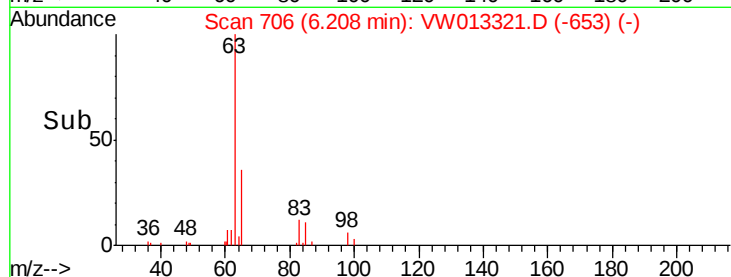
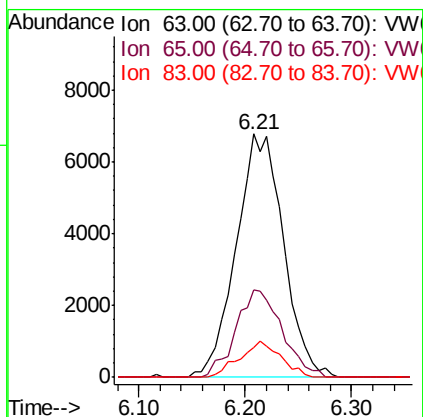
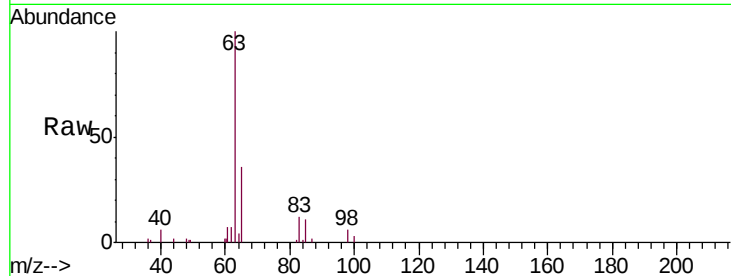
Tgt Ion: 63 Resp: 21087

Ion Ratio Lower Upper

63 100

65 35.7 21.8 40.4

83 12.2 9.3 17.3



#21

2-Butanone

Concen: 4.736 ug/L

RT: 7.17 min Scan# 864

Delta R.T. -0.00 min

Lab File: VW013321.D

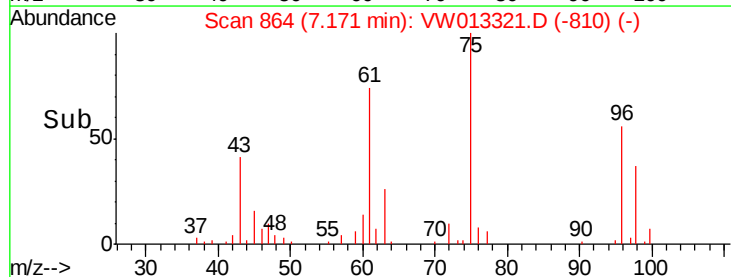
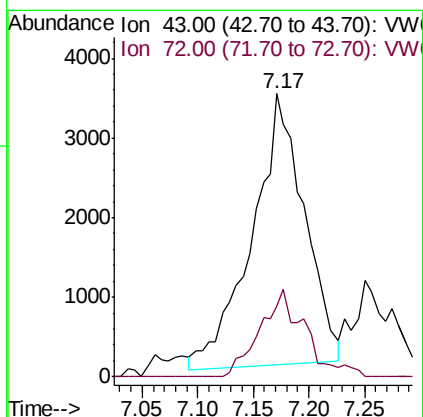
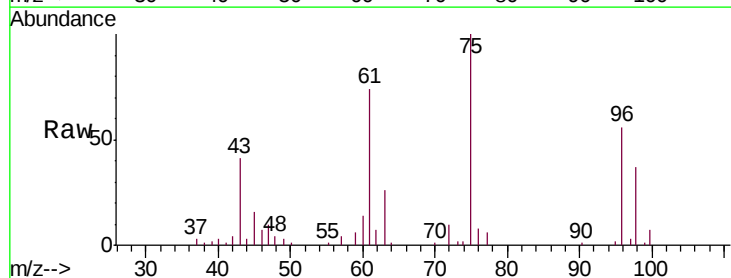
Acq: 27 Sep 2019 14:26

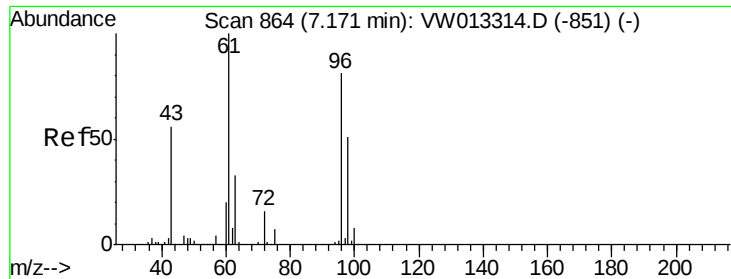
Tgt Ion: 43 Resp: 11152

Ion Ratio Lower Upper

43 100

72 20.4 13.2 39.6



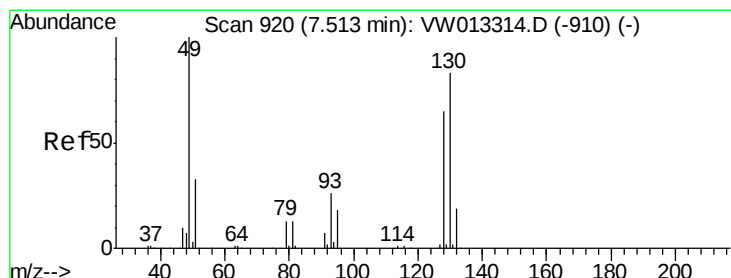
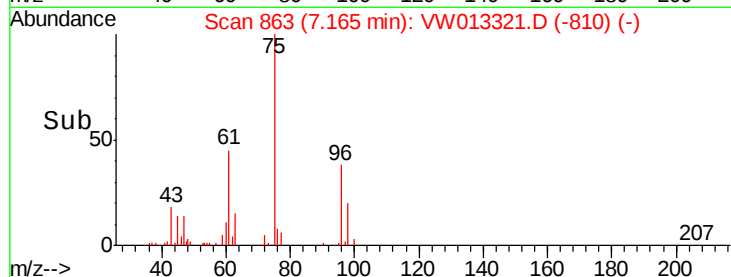
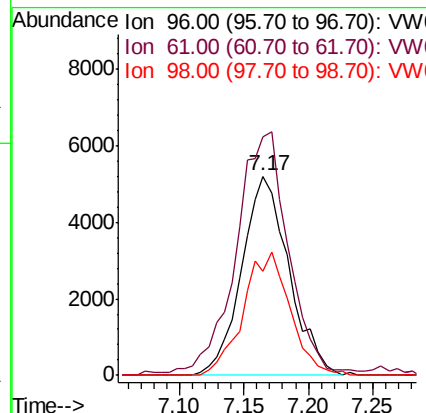
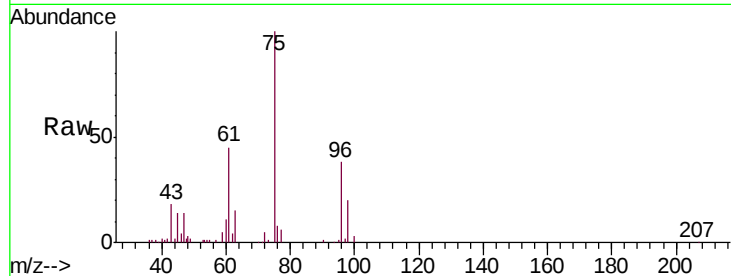


#22

cis-1,2-Dichloroethene  
 Concen: 2.065 ug/L  
 RT: 7.17 min Scan# 863  
 Delta R.T. -0.01 min  
 Lab File: VW013321.D  
 Acq: 27 Sep 2019 14:26

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 MDL06

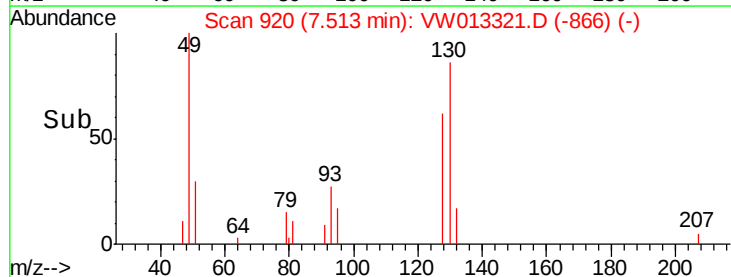
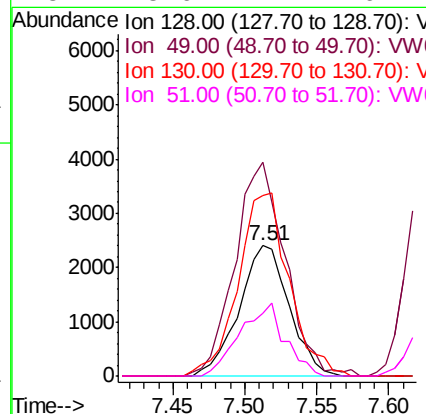
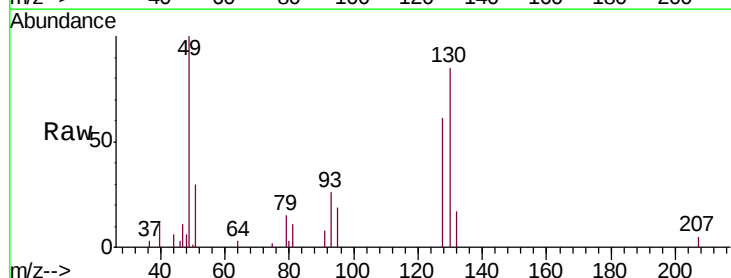
Tgt Ion: 96 Resp: 13221  
 Ion Ratio Lower Upper  
 96 100  
 61 120.1 86.0 159.6  
 98 52.2 43.5 80.9

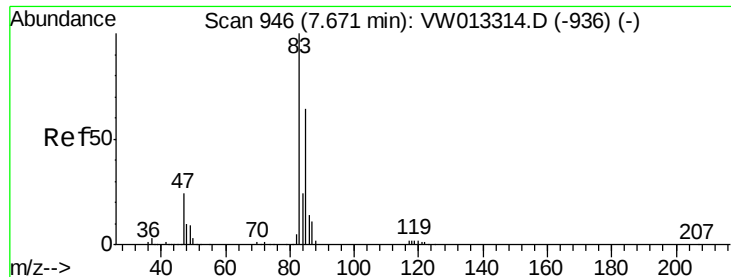


#23

Bromochloromethane  
 Concen: 2.011 ug/L  
 RT: 7.51 min Scan# 920  
 Delta R.T. -0.00 min  
 Lab File: VW013321.D  
 Acq: 27 Sep 2019 14:26

Tgt Ion: 128 Resp: 5792  
 Ion Ratio Lower Upper  
 128 100  
 49 163.9 114.6 212.8  
 130 138.9 92.6 172.0  
 51 48.6 42.7 64.1

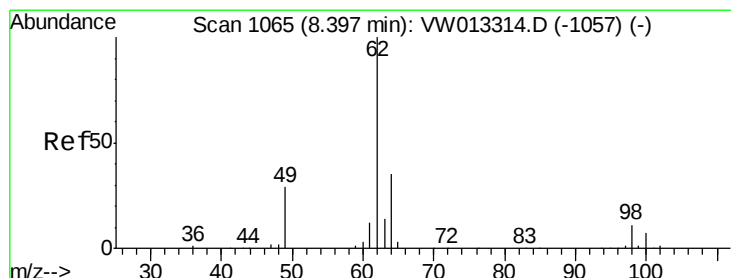
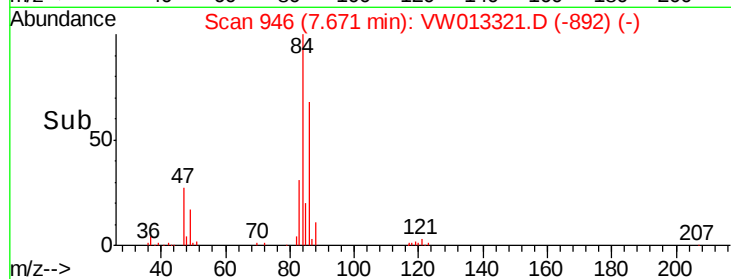
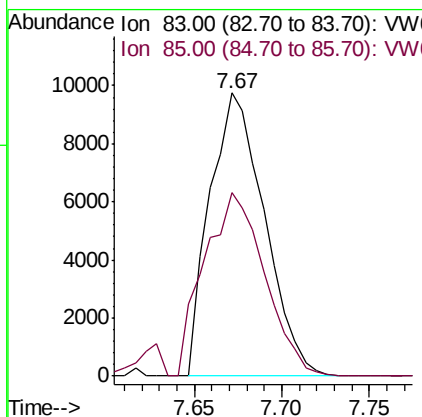
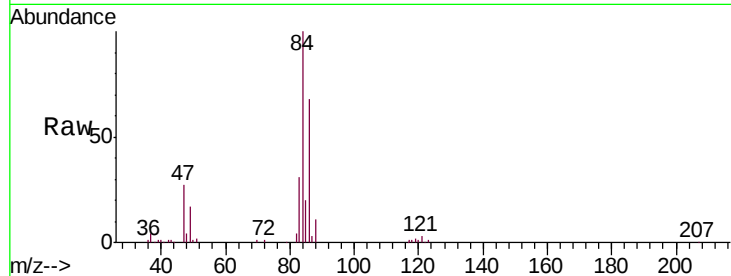




#25  
Chloroform  
Concen: 2.100 ug/L  
RT: 7.67 min Scan# 946  
Delta R.T. -0.00 min  
Lab File: VW013321.D  
Acq: 27 Sep 2019 14:26

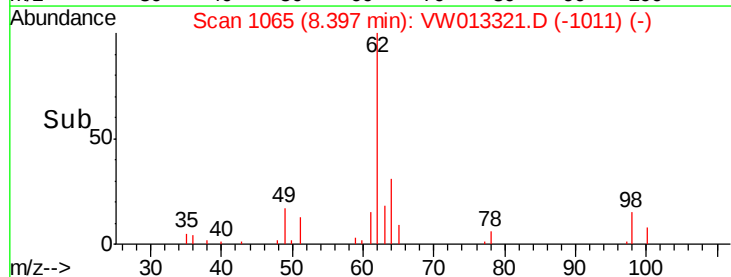
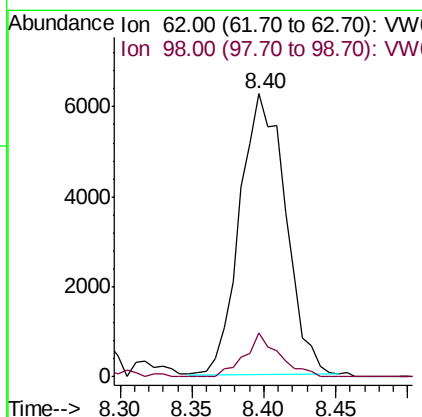
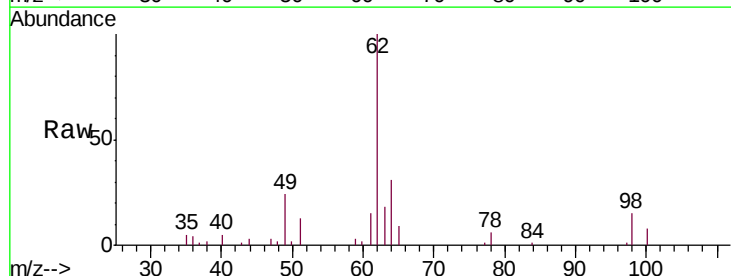
Instrument :  
MSVOA\_W  
ClientSampled :  
MDL06

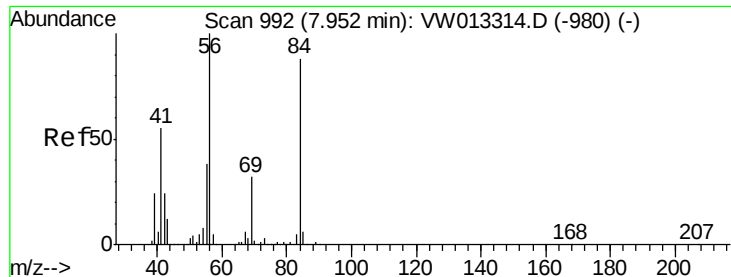
Tgt Ion: 83 Resp: 21265  
Ion Ratio Lower Upper  
83 100  
85 71.9 45.9 85.3



#27  
1,2-Dichloroethane  
Concen: 2.083 ug/L  
RT: 8.40 min Scan# 1065  
Delta R.T. -0.00 min  
Lab File: VW013321.D  
Acq: 27 Sep 2019 14:26

Tgt Ion: 62 Resp: 13817  
Ion Ratio Lower Upper  
62 100  
98 15.5 9.0 13.6#

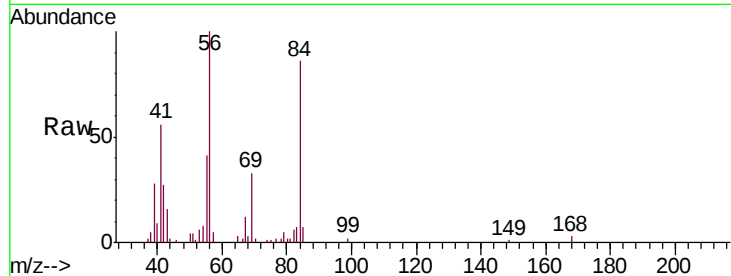




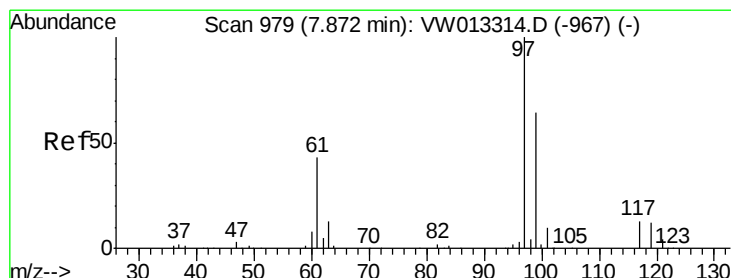
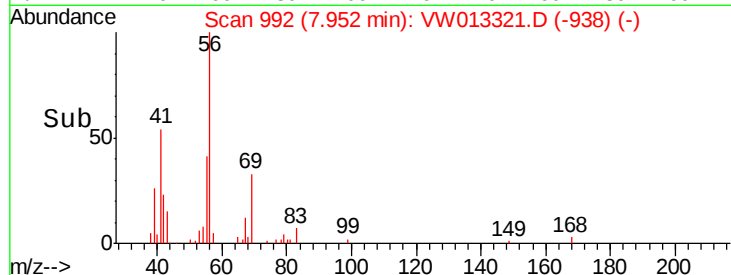
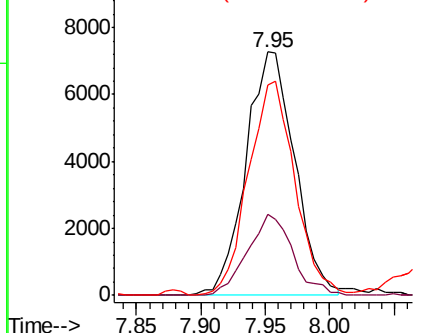
#30  
Cyclohexane  
Concen: 1.870 ug/L  
RT: 7.95 min Scan# 992  
Delta R.T. -0.00 min  
Lab File: VW013321.D  
Acq: 27 Sep 2019 14:26

Instrument :  
MSVOA\_W  
ClientSampleId :  
MDL06

Tgt Ion: 56 Resp: 19038  
Ion Ratio Lower Upper  
56 100  
69 31.0 24.6 37.0  
84 84.0 69.5 104.3

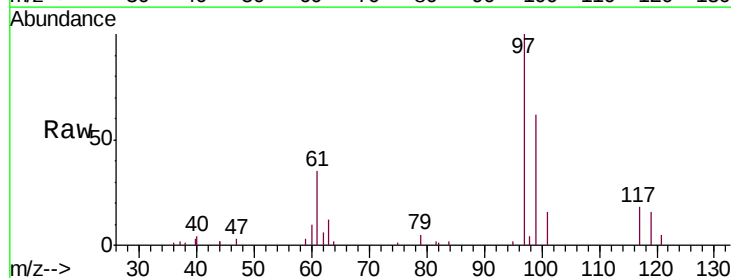


Abundance Ion 56.00 (55.70 to 56.70): VW  
Ion 69.00 (68.70 to 69.70): VW  
Ion 84.00 (83.70 to 84.70): VW

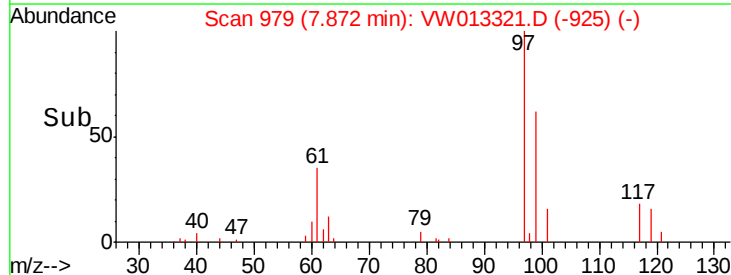
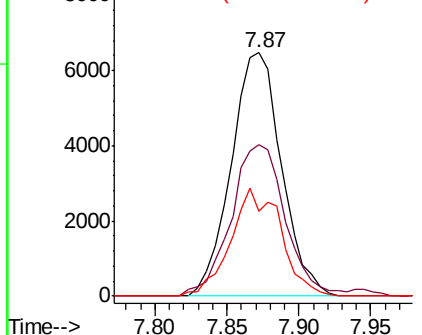


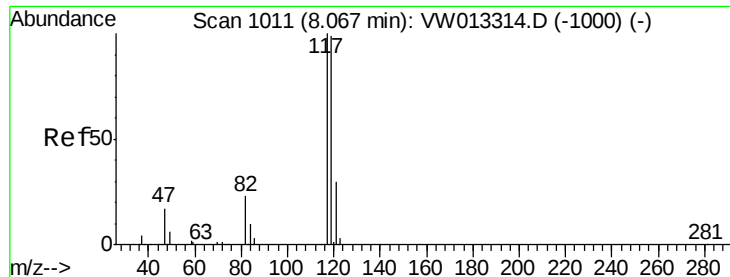
#31  
1,1,1-Trichloroethane  
Concen: 1.933 ug/L  
RT: 7.87 min Scan# 979  
Delta R.T. -0.00 min  
Lab File: VW013321.D  
Acq: 27 Sep 2019 14:26

Tgt Ion: 97 Resp: 15723  
Ion Ratio Lower Upper  
97 100  
99 67.0 50.6 75.8  
61 26.4 34.2 51.2#



Abundance Ion 97.00 (96.70 to 97.70): VW  
Ion 99.00 (98.70 to 99.70): VW  
Ion 61.00 (60.70 to 61.70): VW





#32

Carbon tetrachloride

Concen: 1.924 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. -0.00 min

Lab File: VW013321.D

Acq: 27 Sep 2019 14:26

Instrument :

MSVOA\_W

ClientSampled :

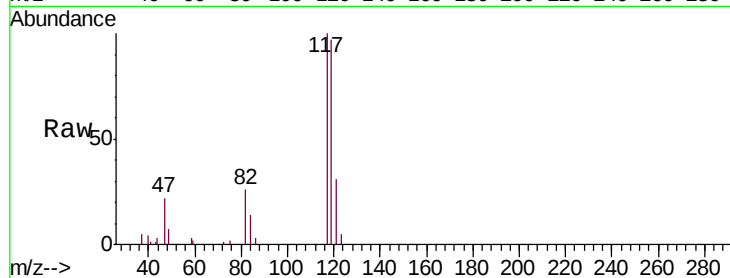
MDL06

Tgt Ion:117 Resp: 14919

Ion Ratio Lower Upper

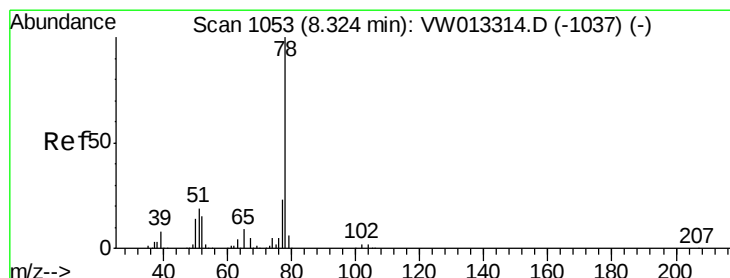
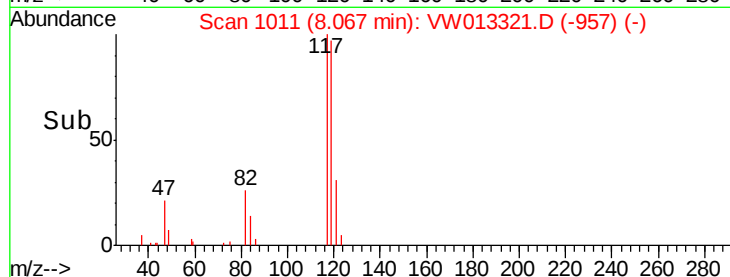
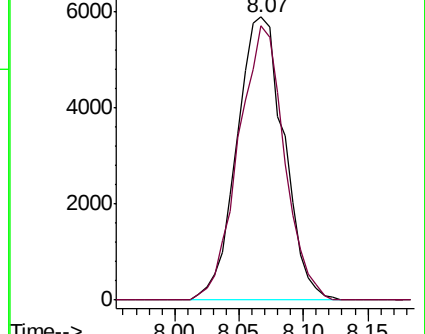
117 100

119 94.4 76.7 115.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 2.033 ug/L

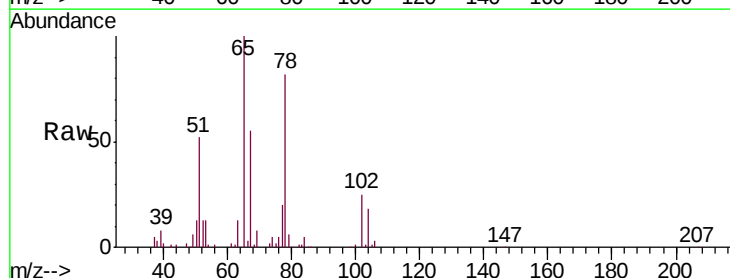
RT: 8.32 min Scan# 1053

Delta R.T. -0.00 min

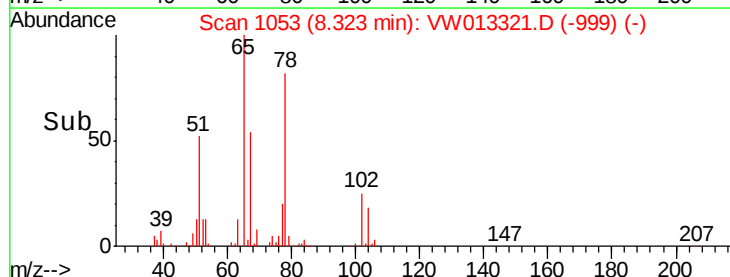
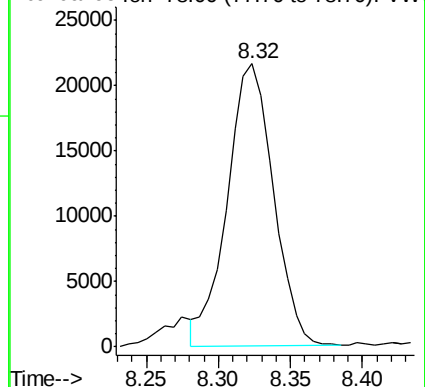
Lab File: VW013321.D

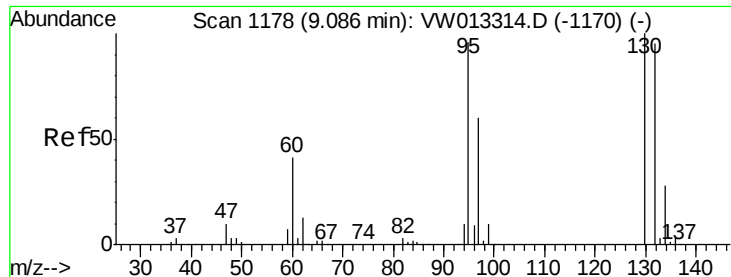
Acq: 27 Sep 2019 14:26

Tgt Ion: 78 Resp: 48293



Abundance Ion 78.00 (77.70 to 78.70): VW

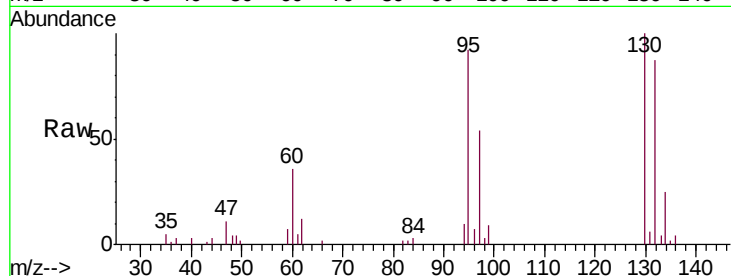




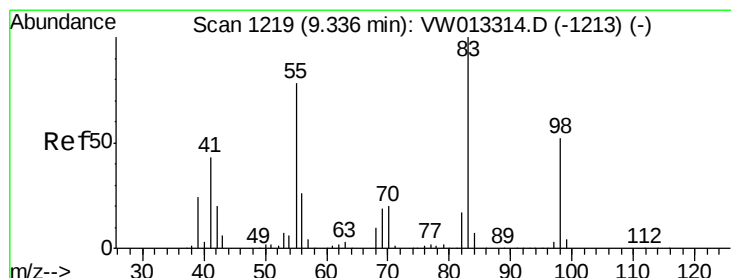
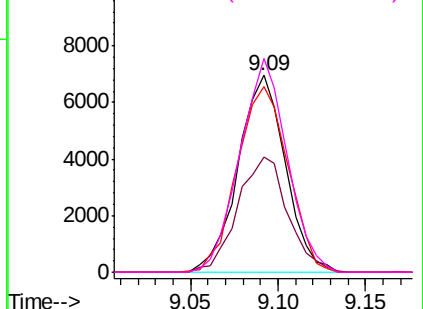
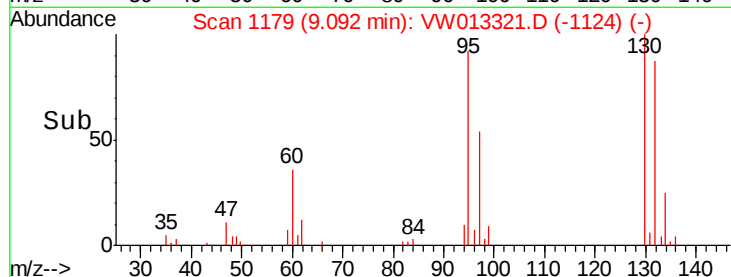
#35  
 Trichloroethene  
 Concen: 2.090 ug/L  
 RT: 9.09 min Scan# 1179  
 Delta R.T. 0.01 min  
 Lab File: VW013321.D  
 Acq: 27 Sep 2019 14:26

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 MDL06

Tgt Ion: 95 Resp: 13048  
 Ion Ratio Lower Upper  
 95 100  
 97 62.3 44.3 82.3  
 132 102.2 71.7 133.3  
 130 108.8 74.1 137.7

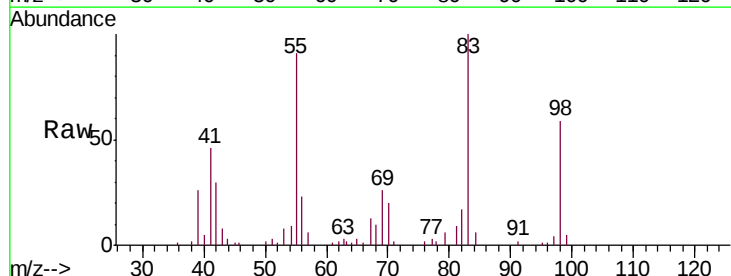


Abundance Ion 95.00 (94.70 to 95.70): VW  
 Ion 97.00 (96.70 to 97.70): VW  
 Ion 132.00 (131.70 to 132.70): V  
 Ion 130.00 (129.70 to 130.70): V

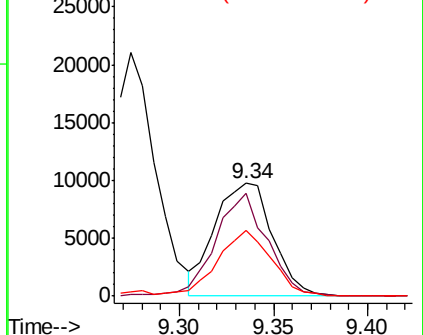
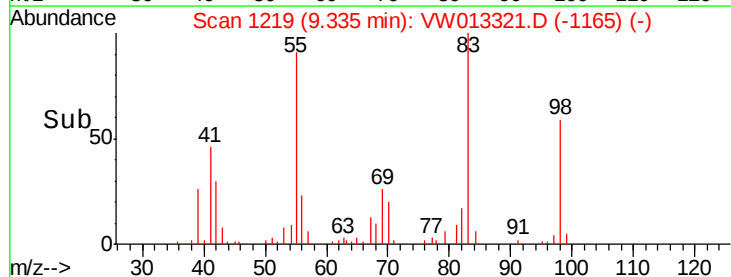


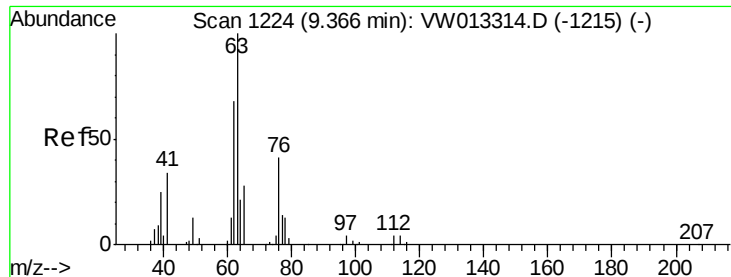
#36  
 Methylcyclohexane  
 Concen: 1.870 ug/L  
 RT: 9.34 min Scan# 1219  
 Delta R.T. -0.00 min  
 Lab File: VW013321.D  
 Acq: 27 Sep 2019 14:26

Tgt Ion: 83 Resp: 20792  
 Ion Ratio Lower Upper  
 83 100  
 55 80.9 61.8 92.6  
 98 54.4 39.6 59.4



Abundance Ion 83.00 (82.70 to 83.70): VW  
 Ion 55.00 (54.70 to 55.70): VW  
 Ion 98.00 (97.70 to 98.70): VW

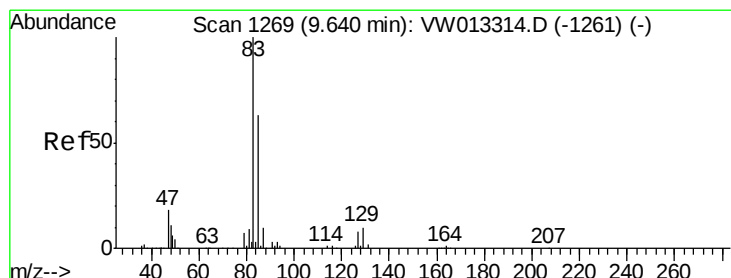
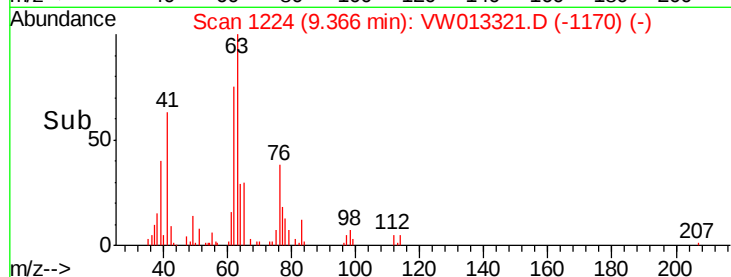
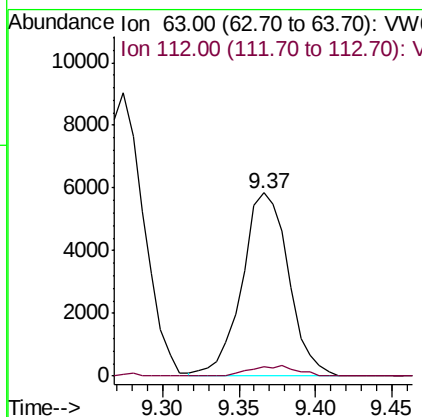
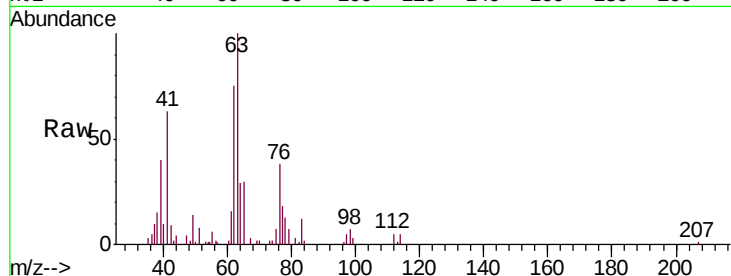




#40  
 1,2-Dichloropropane  
 Concen: 2.122 ug/L  
 RT: 9.37 min Scan# 1224  
 Delta R.T. -0.00 min  
 Lab File: VW013321.D  
 Acq: 27 Sep 2019 14:26

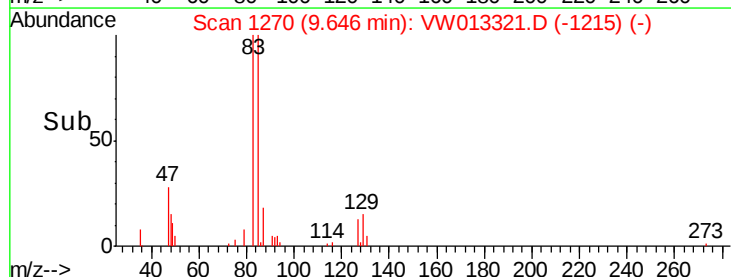
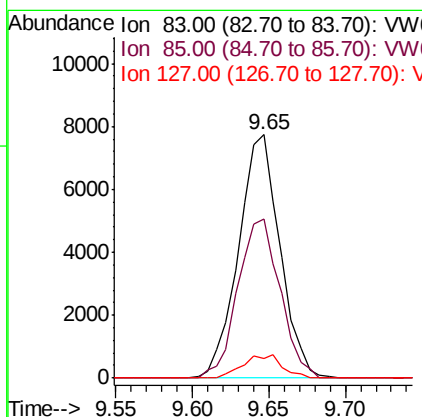
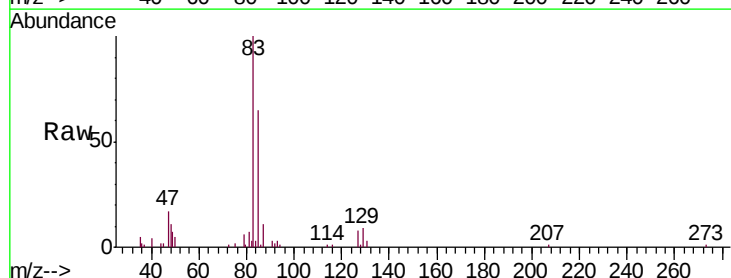
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 MDL06

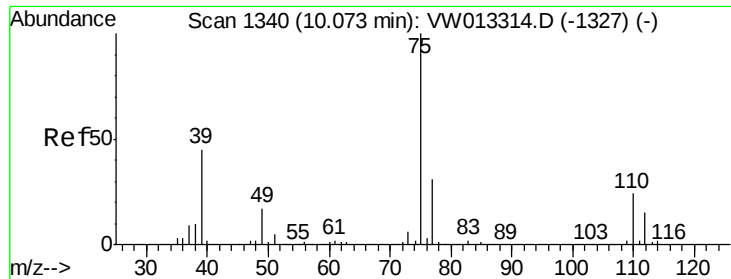
Tgt Ion: 63 Resp: 12406  
 Ion Ratio Lower Upper  
 63 100  
 112 5.7 4.1 6.1



#41  
 Bromodichloromethane  
 Concen: 2.028 ug/L  
 RT: 9.65 min Scan# 1270  
 Delta R.T. 0.01 min  
 Lab File: VW013321.D  
 Acq: 27 Sep 2019 14:26

Tgt Ion: 83 Resp: 14543  
 Ion Ratio Lower Upper  
 83 100  
 85 65.1 43.8 81.4  
 127 8.3 7.0 10.6

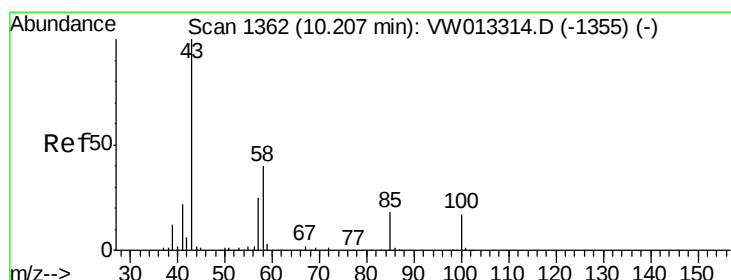
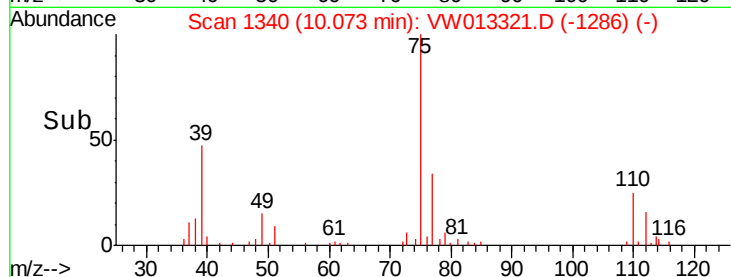
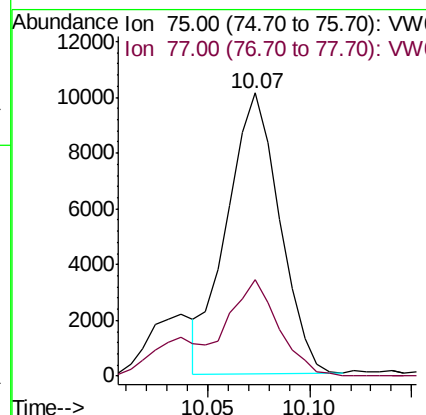
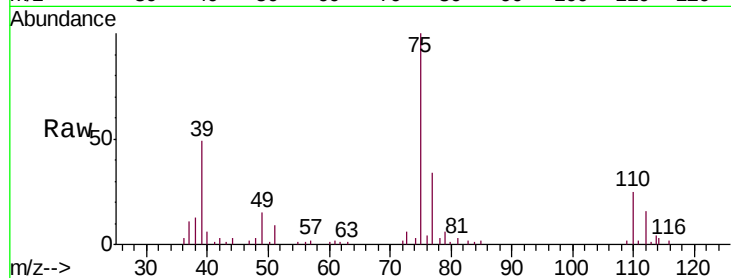




#42  
 cis-1,3-Dichloropropene  
 Concen: 1.932 ug/L  
 RT: 10.07 min Scan# 1340  
 Delta R.T. -0.00 min  
 Lab File: VW013321.D  
 Acq: 27 Sep 2019 14:26

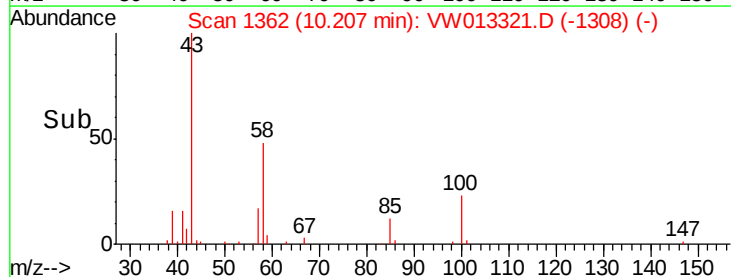
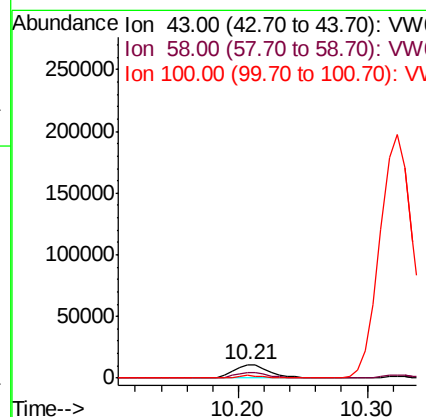
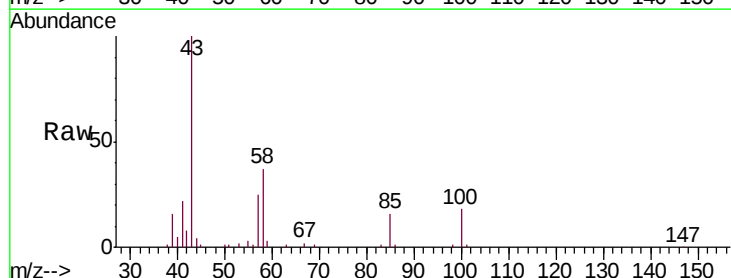
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 MDL06

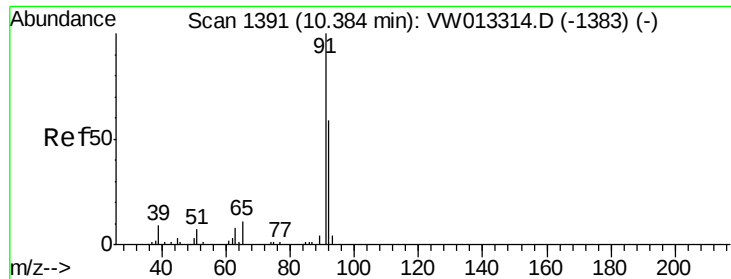
Tgt Ion: 75 Resp: 18039  
 Ion Ratio Lower Upper  
 75 100  
 77 33.9 21.3 39.5



#43  
 4-Methyl-2-pentanone  
 Concen: 4.808 ug/L  
 RT: 10.21 min Scan# 1362  
 Delta R.T. -0.00 min  
 Lab File: VW013321.D  
 Acq: 27 Sep 2019 14:26

Tgt Ion: 43 Resp: 21516  
 Ion Ratio Lower Upper  
 43 100  
 58 36.8 32.7 49.1  
 100 15.4 12.9 19.3





#44

Toluene

Concen: 2.062 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VW013321.D

Acq: 27 Sep 2019 14:26

Instrument :

MSVOA\_W

ClientSampleId :

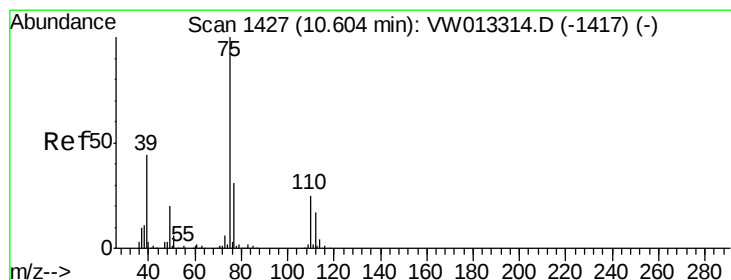
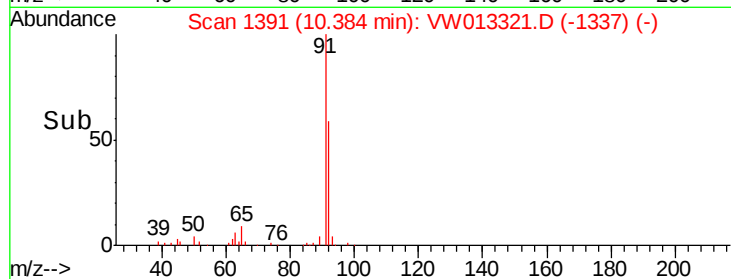
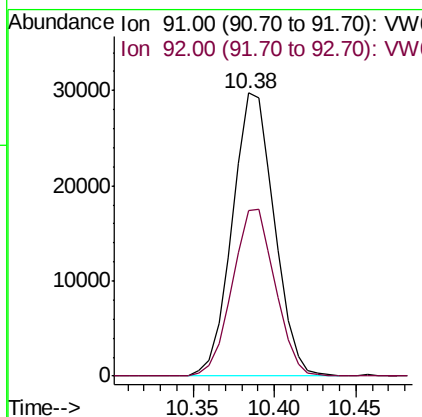
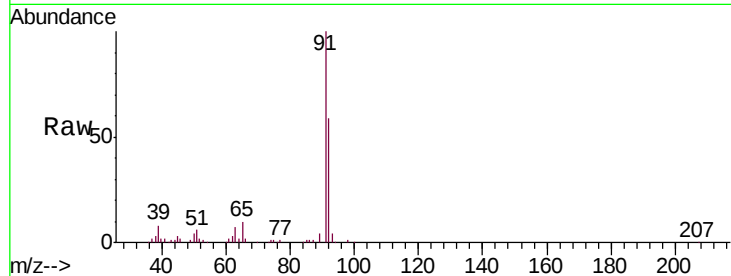
MDL06

Tgt Ion: 91 Resp: 53347

Ion Ratio Lower Upper

91 100

92 58.6 41.5 77.1



#45

trans-1,3-Dichloropropene

Concen: 2.385 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW013321.D

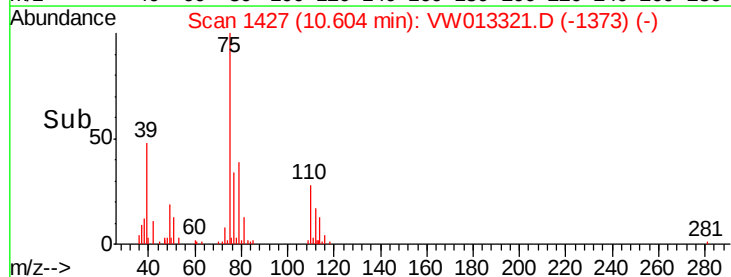
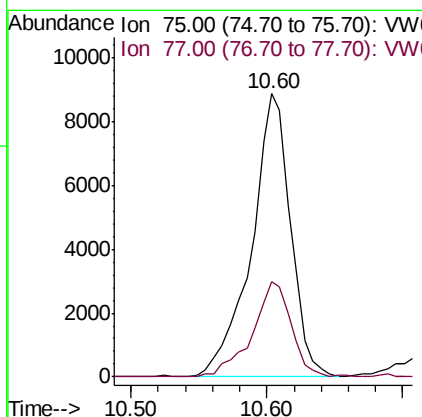
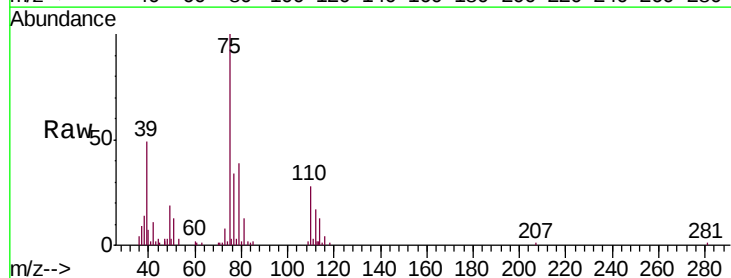
Acq: 27 Sep 2019 14:26

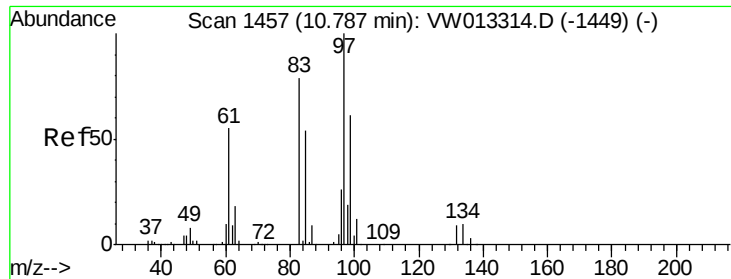
Tgt Ion: 75 Resp: 17898

Ion Ratio Lower Upper

75 100

77 33.7 20.5 38.1

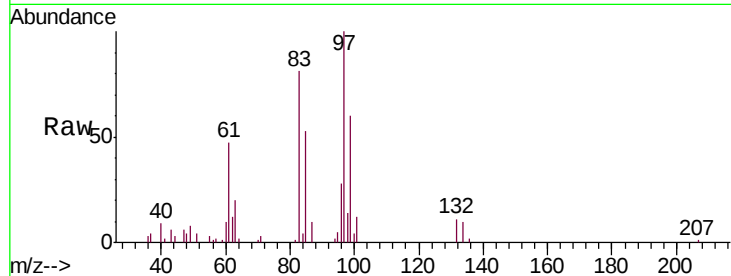




#46  
 1,1,2-Trichloroethane  
 Concen: 2.187 ug/L  
 RT: 10.79 min Scan# 1457  
 Delta R.T. -0.00 min  
 Lab File: VW013321.D  
 Acq: 27 Sep 2019 14:26

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 MDL06

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 10017 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 80.7  | 59.4  | 110.2 |
| 85       | 53.2  | 38.7  | 71.9  |
| 99       | 59.7  | 45.8  | 85.0  |



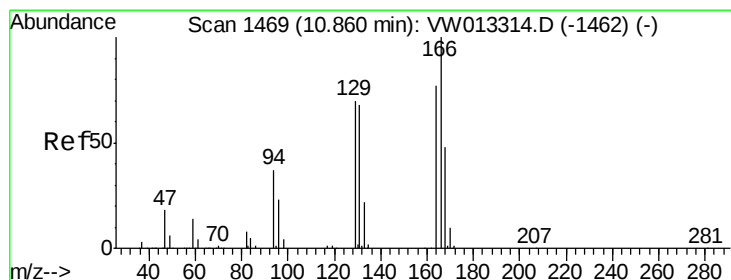
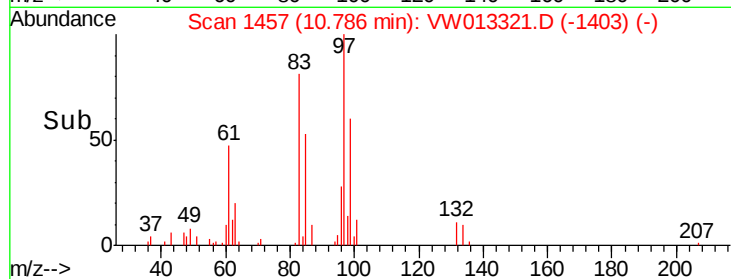
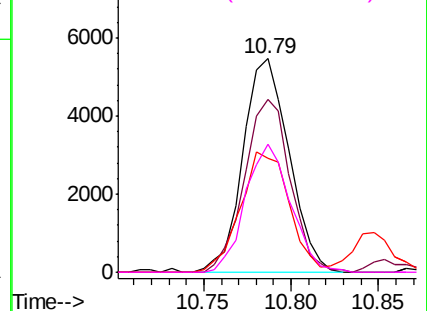
Abundance

Ion 97.00 (96.70 to 97.70): VW

Ion 83.00 (82.70 to 83.70): VW

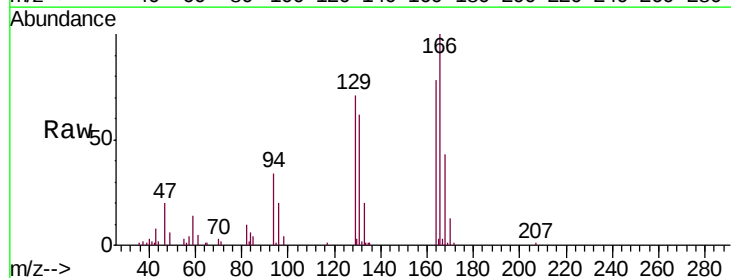
Ion 85.00 (84.70 to 85.70): VW

Ion 99.00 (98.70 to 99.70): VW



#47  
 Tetrachloroethene  
 Concen: 1.990 ug/L  
 RT: 10.86 min Scan# 1469  
 Delta R.T. -0.00 min  
 Lab File: VW013321.D  
 Acq: 27 Sep 2019 14:26

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 11176 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 91.5  | 60.5  | 112.5 |
| 131      | 79.6  | 60.6  | 112.6 |
| 166      | 128.9 | 90.6  | 168.2 |



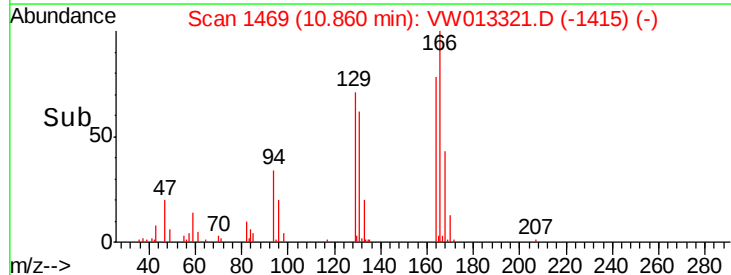
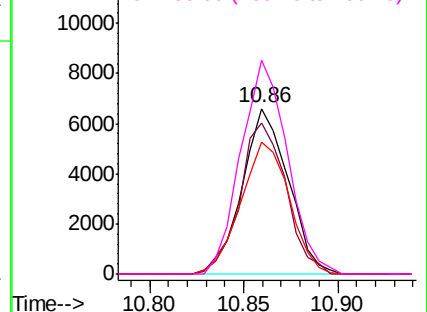
Abundance

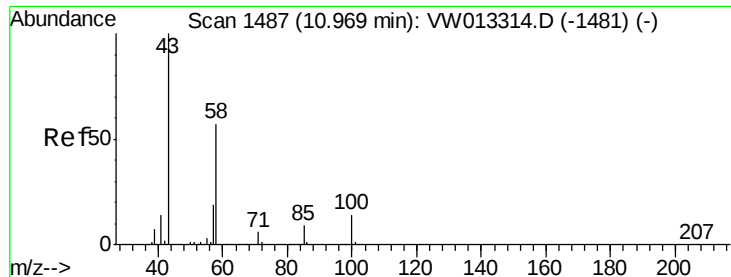
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

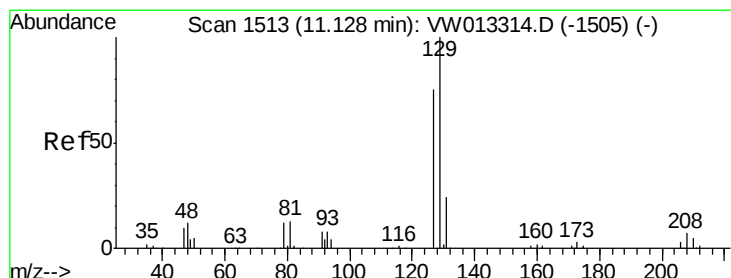
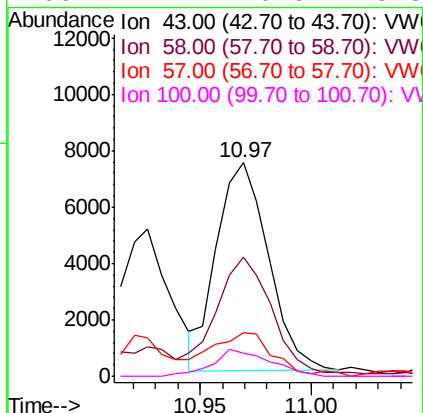
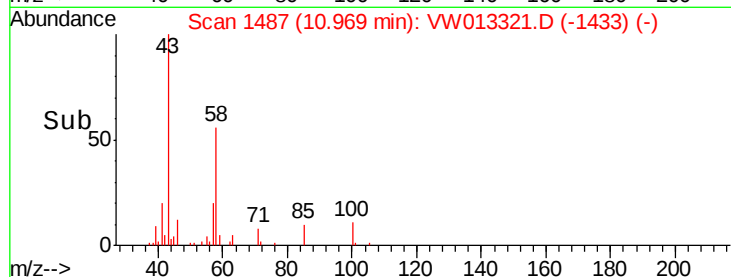
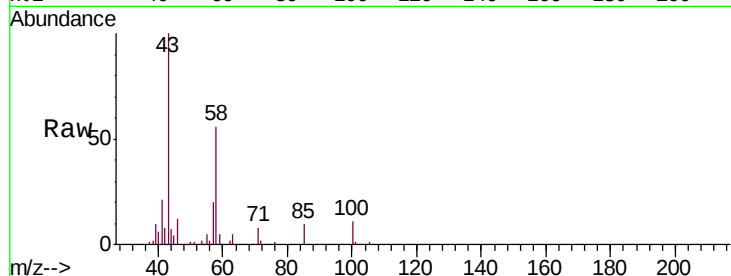




#49  
2-Hexanone  
Concen: 3.693 ug/L  
RT: 10.97 min Scan# 1487  
Delta R.T. -0.00 min  
Lab File: VW013321.D  
Acq: 27 Sep 2019 14:26

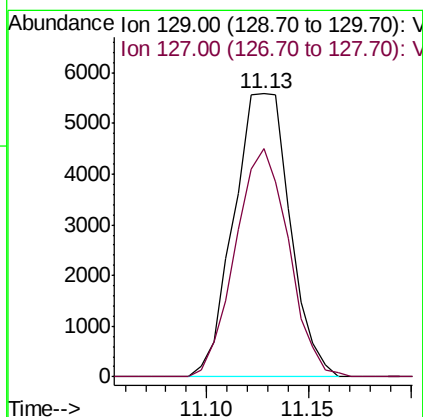
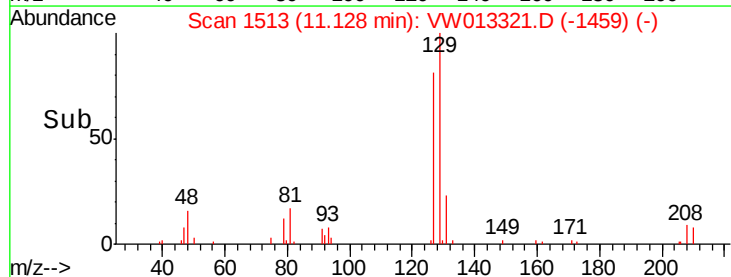
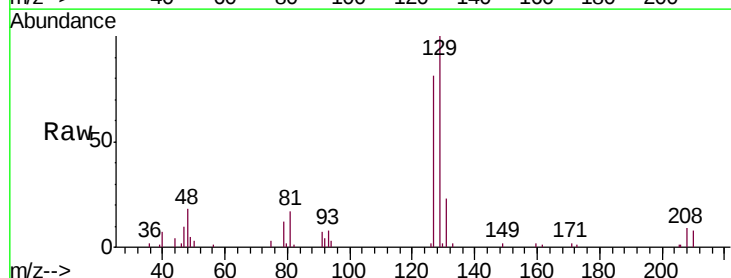
Instrument :  
MSVOA\_W  
ClientSampleId :  
MDL06

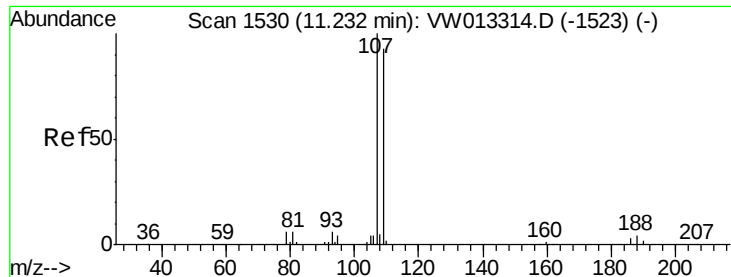
Tgt Ion: 43 Resp: 11880  
Ion Ratio Lower Upper  
43 100  
58 63.4 44.3 66.5  
57 24.2 15.3 22.9#  
100 14.4 10.6 15.8



#50  
Dibromochloromethane  
Concen: 2.036 ug/L  
RT: 11.13 min Scan# 1513  
Delta R.T. -0.00 min  
Lab File: VW013321.D  
Acq: 27 Sep 2019 14:26

Tgt Ion: 129 Resp: 10694  
Ion Ratio Lower Upper  
129 100  
127 80.8 56.1 104.1





#51

1,2-Dibromoethane

Concen: 2.109 ug/L

RT: 11.24 min Scan# 1531

Delta R.T. 0.01 min

Lab File: VW013321.D

Acq: 27 Sep 2019 14:26

Instrument :

MSVOA\_W

ClientSampleId :

MDL06

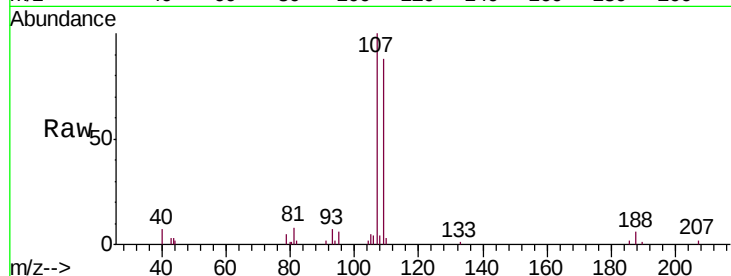
Tgt Ion:107 Resp: 9490

Ion Ratio Lower Upper

107 100

109 87.7 65.5 121.6

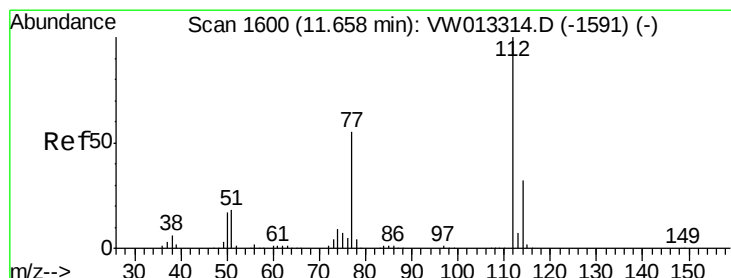
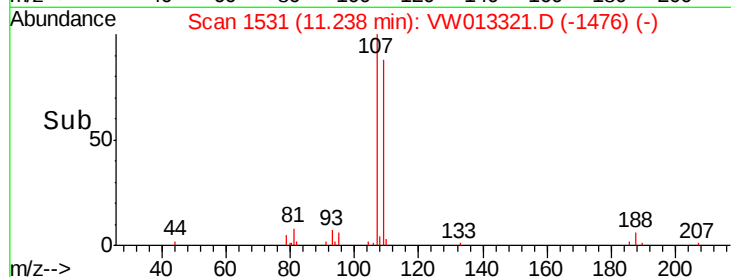
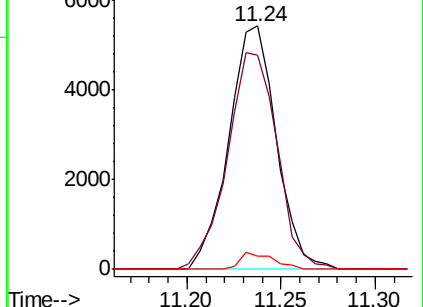
188 5.6 3.0 4.6#



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#52

Chlorobenzene

Concen: 2.099 ug/L

RT: 11.66 min Scan# 1600

Delta R.T. -0.00 min

Lab File: VW013321.D

Acq: 27 Sep 2019 14:26

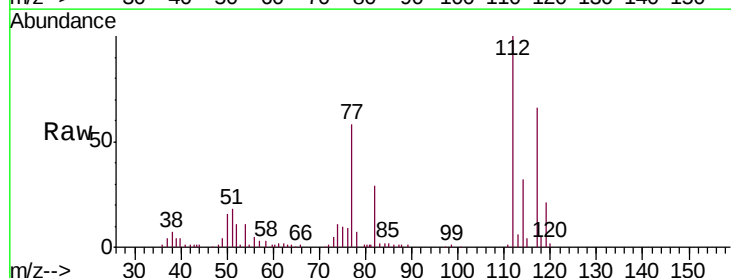
Tgt Ion:112 Resp: 34211

Ion Ratio Lower Upper

112 100

77 57.8 46.5 69.7

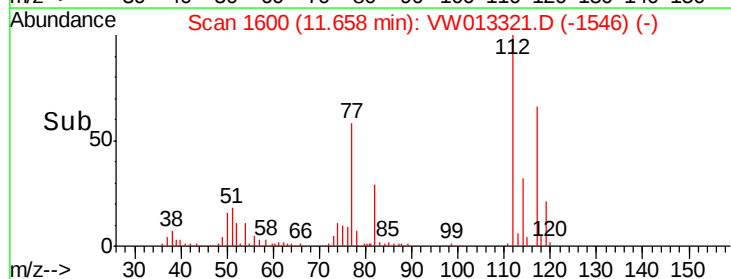
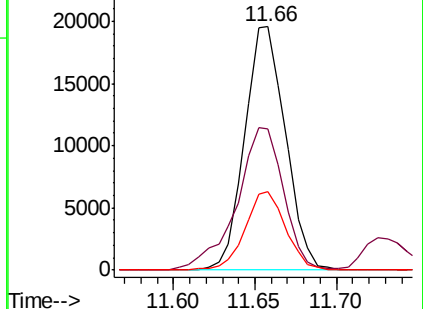
114 32.3 23.0 42.8

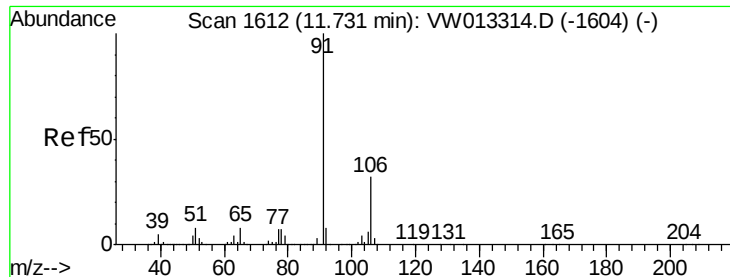


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): V

Ion 114.00 (113.70 to 114.70): V





#53

Ethylbenzene

Concen: 1.965 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW013321.D

Acq: 27 Sep 2019 14:26

Instrument :

MSVOA\_W

ClientSampleId :

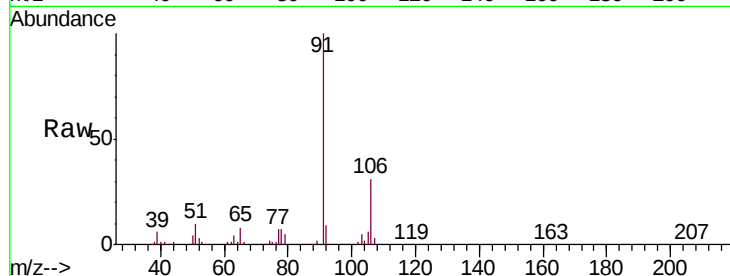
MDL06

Tgt Ion: 91 Resp: 56335

Ion Ratio Lower Upper

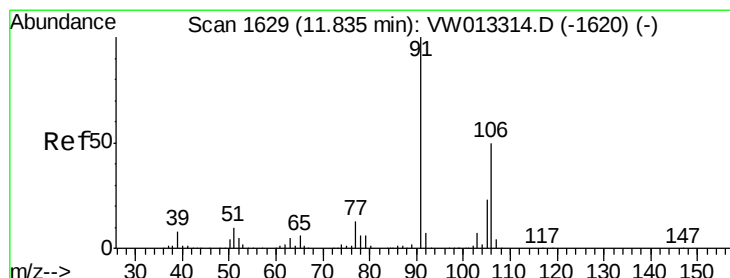
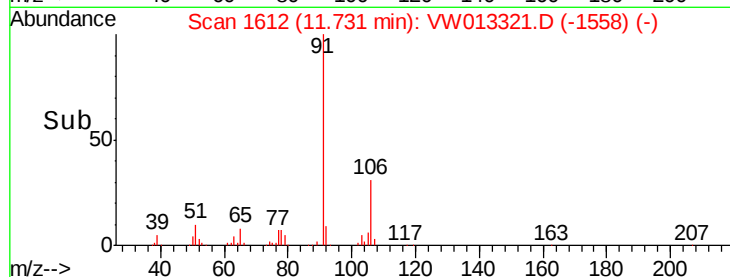
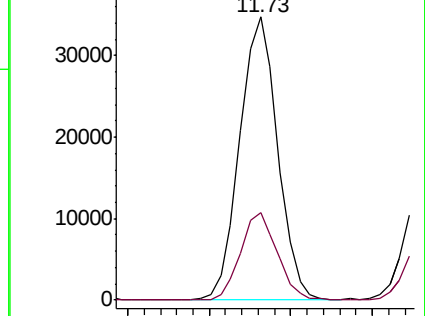
91 100

106 31.0 20.8 38.6



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V



#54

m,p-Xylene

Concen: 1.984 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. 0.01 min

Lab File: VW013321.D

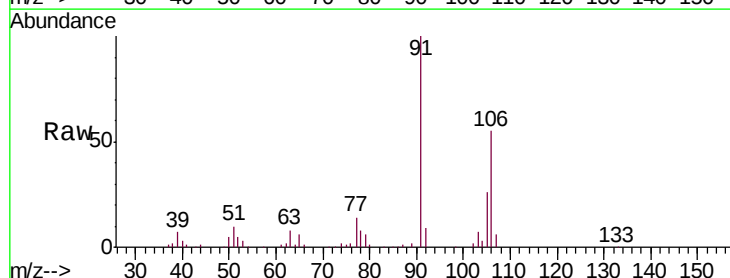
Acq: 27 Sep 2019 14:26

Tgt Ion: 106 Resp: 21847

Ion Ratio Lower Upper

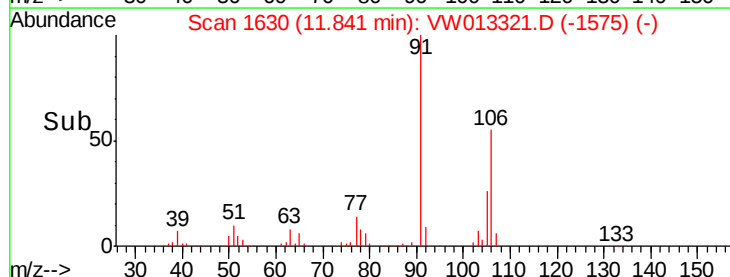
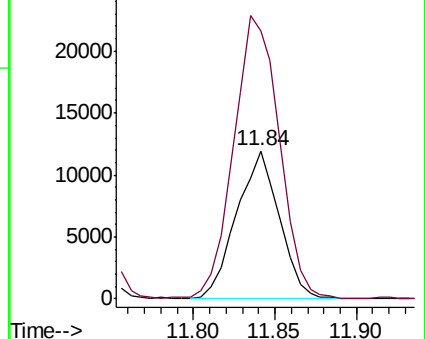
106 100

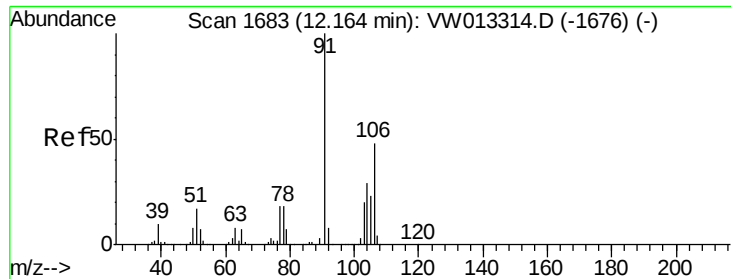
91 181.5 138.3 256.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW

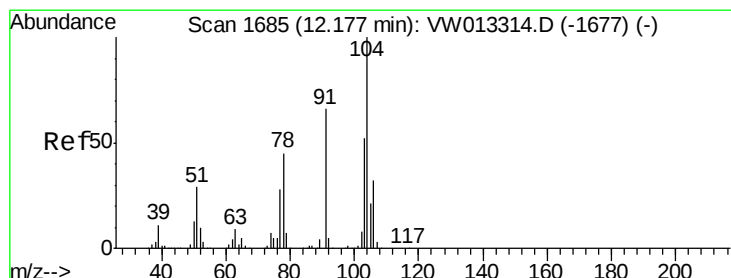
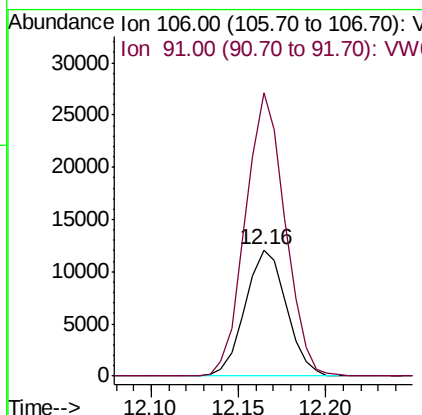
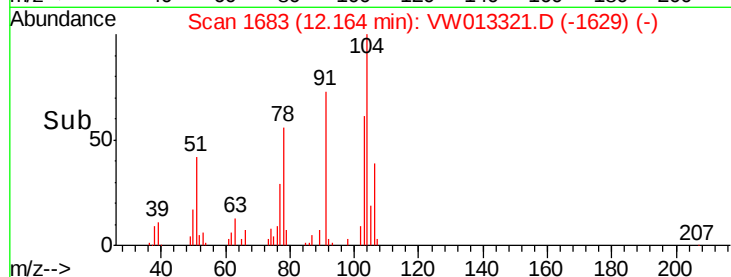
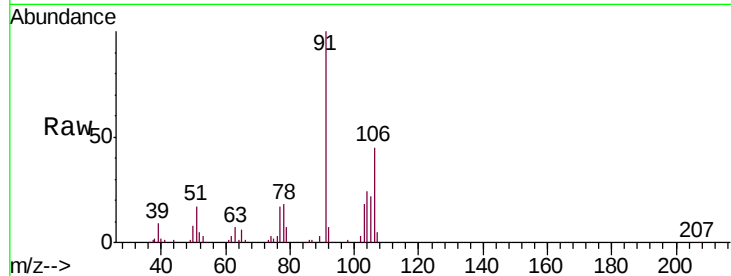




#55  
o-xylene  
Concen: 1.915 ug/L  
RT: 12.16 min Scan# 1683  
Delta R.T. -0.00 min  
Lab File: VW013321.D  
Acq: 27 Sep 2019 14:26

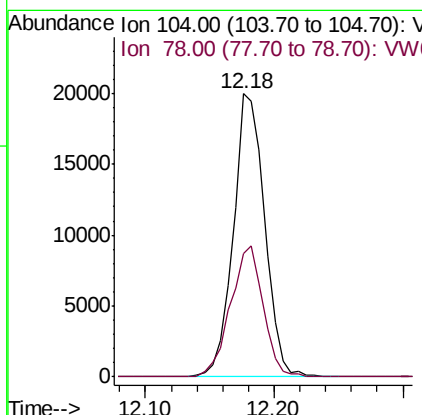
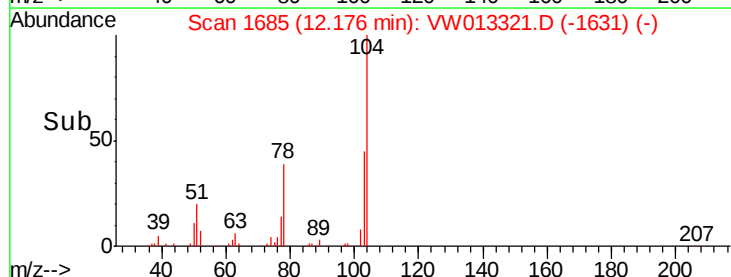
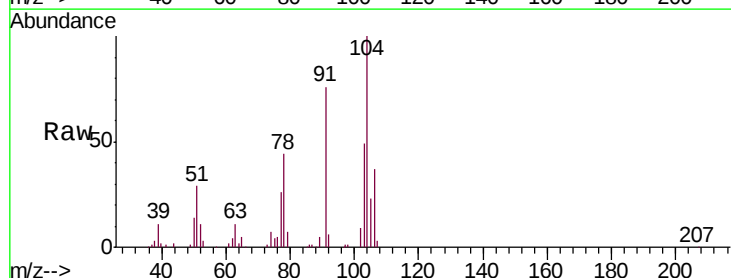
Instrument :  
MSVOA\_W  
ClientSampled :  
MDL06

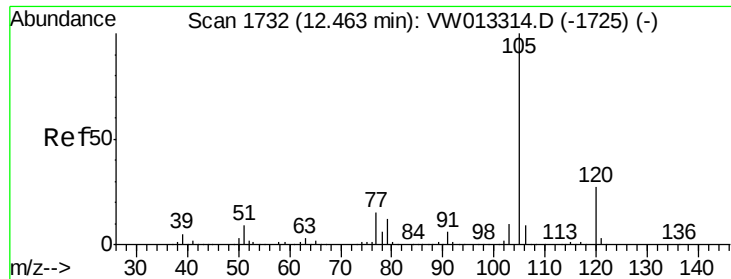
Tgt Ion:106 Resp: 19899  
Ion Ratio Lower Upper  
106 100  
91 224.6 145.9 271.1



#56  
Styrene  
Concen: 1.895 ug/L  
RT: 12.18 min Scan# 1685  
Delta R.T. -0.00 min  
Lab File: VW013321.D  
Acq: 27 Sep 2019 14:26

Tgt Ion:104 Resp: 33753  
Ion Ratio Lower Upper  
104 100  
78 43.7 29.8 55.4





#57

Isopropylbenzene

Concen: 1.949 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW013321.D

Acq: 27 Sep 2019 14:26

Instrument :

MSVOA\_W

ClientSampleId :

MDL06

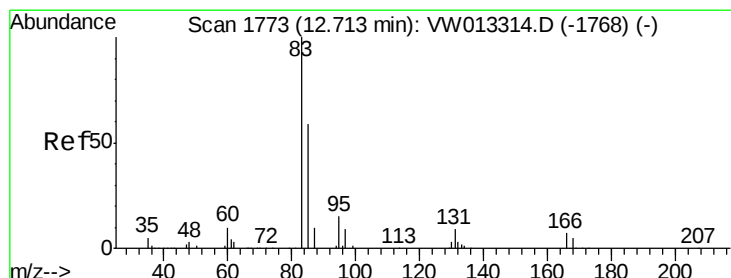
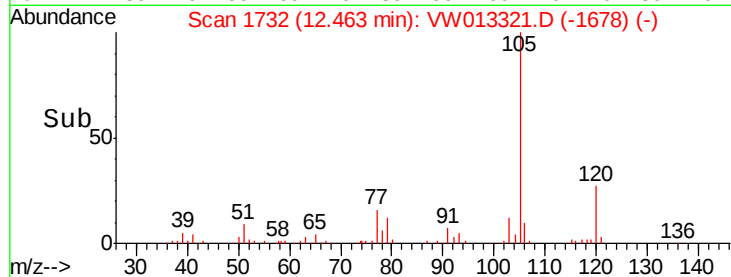
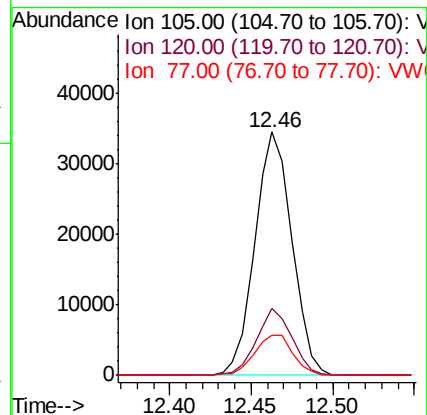
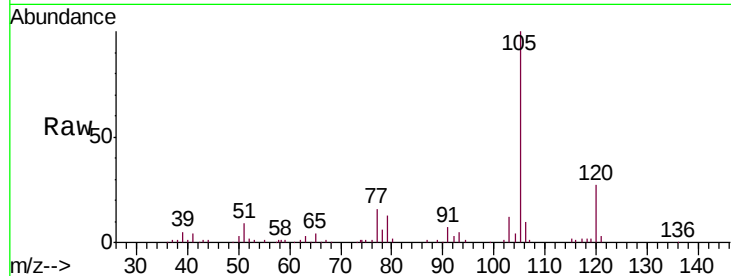
Tgt Ion: 105 Resp: 54760

Ion Ratio Lower Upper

105 100

120 26.5 21.4 32.2

77 17.2 11.8 17.6



#58

1,1,2,2-Tetrachloroethane

Concen: 2.151 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW013321.D

Acq: 27 Sep 2019 14:26

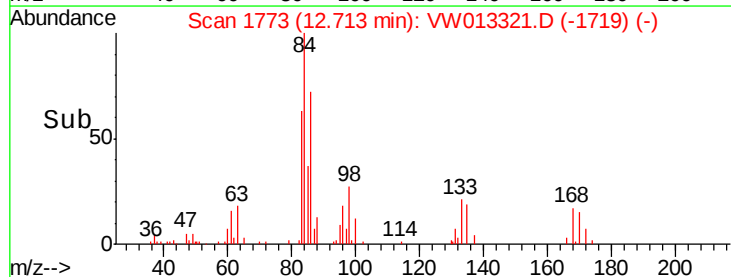
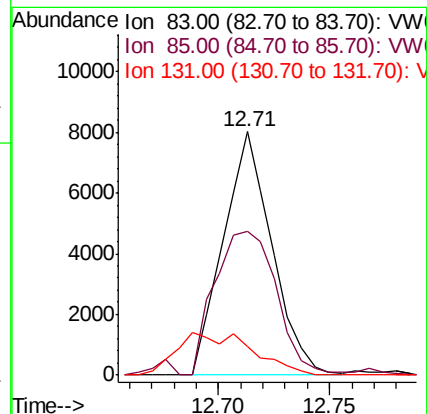
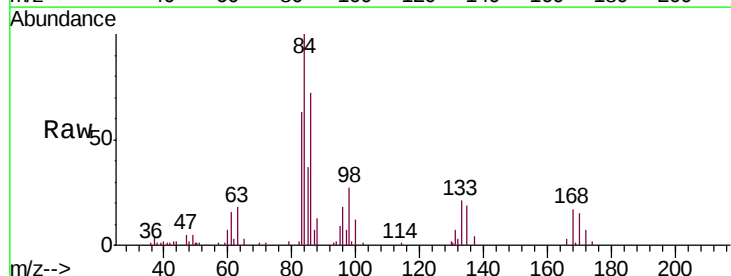
Tgt Ion: 83 Resp: 12139

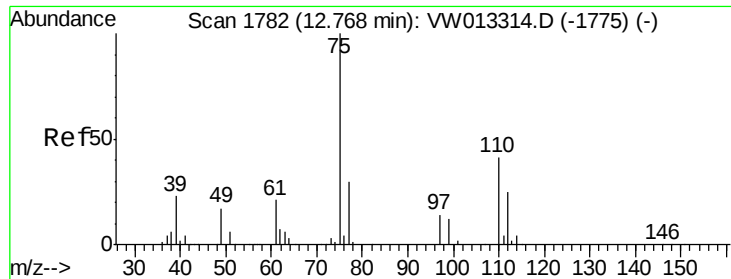
Ion Ratio Lower Upper

83 100

85 59.1 45.2 84.0

131 11.6 8.9 13.3





#59

1,2,3-Trichloropropane

Concen: 2.186 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. -0.00 min

Lab File: VW013321.D

Acq: 27 Sep 2019 14:26

Instrument :

MSVOA\_W

ClientSampleId :

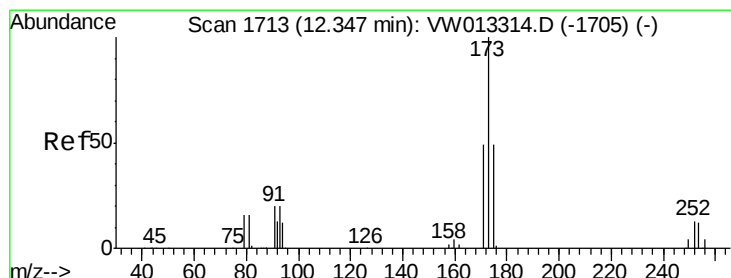
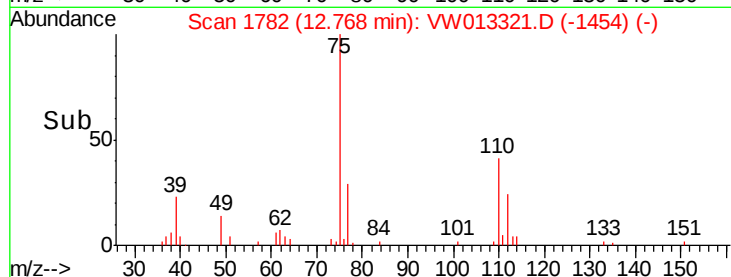
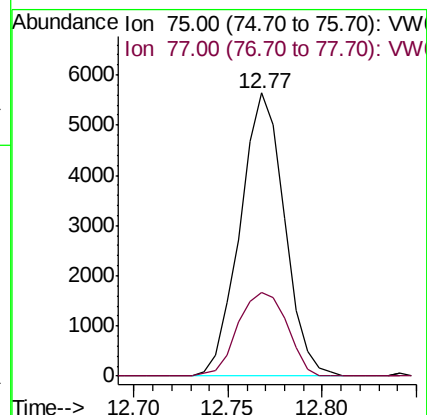
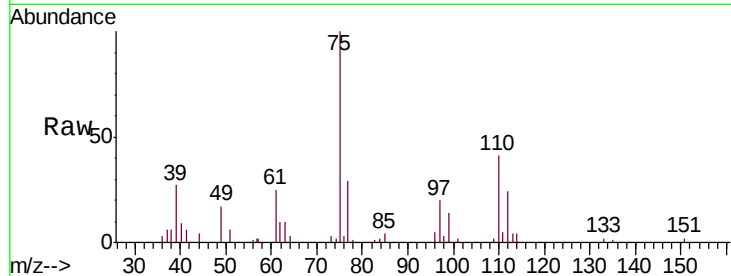
MDL06

Tgt Ion: 75 Resp: 9204

Ion Ratio Lower Upper

75 100

77 32.9 25.8 38.8



#62

Bromoform

Concen: 1.996 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. -0.00 min

Lab File: VW013321.D

Acq: 27 Sep 2019 14:26

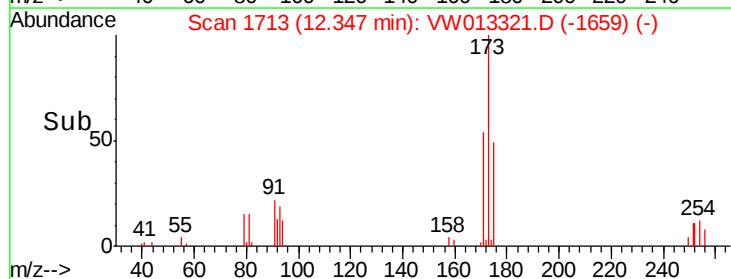
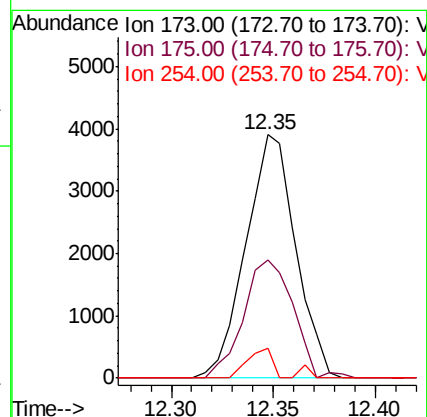
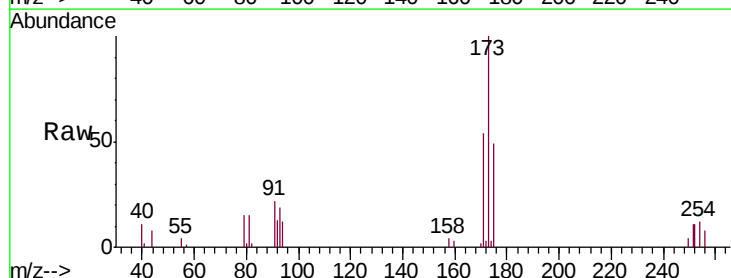
Tgt Ion: 173 Resp: 6643

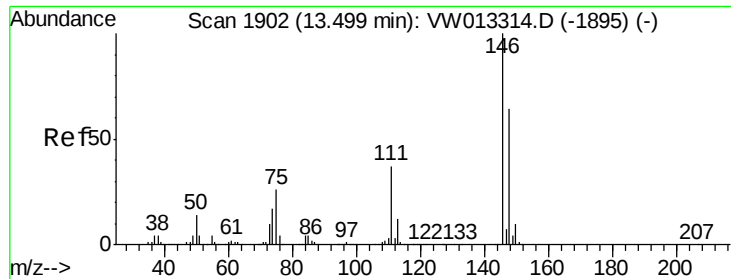
Ion Ratio Lower Upper

173 100

175 47.6 39.3 58.9

254 6.0 9.1 13.7#

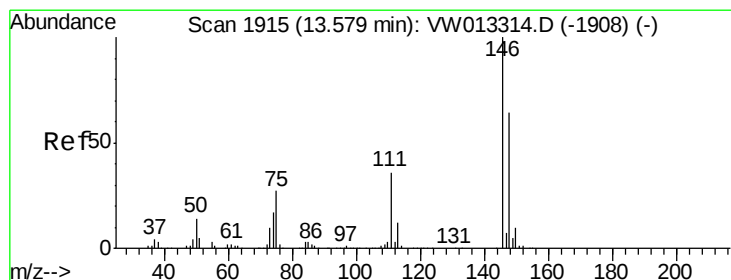
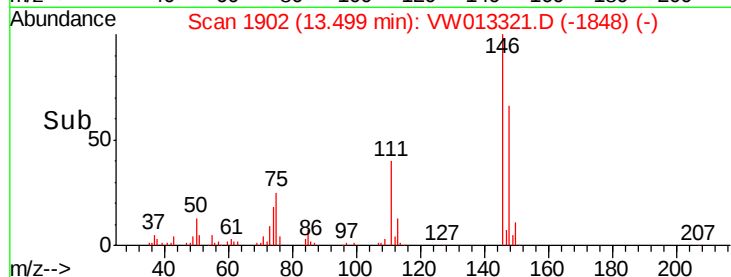
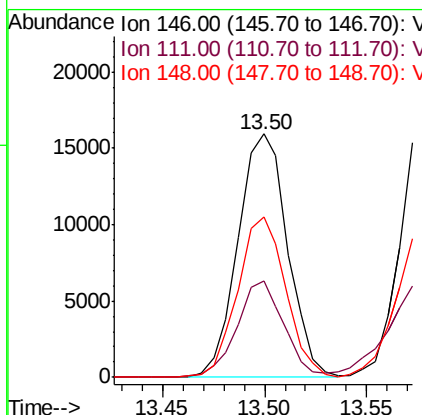
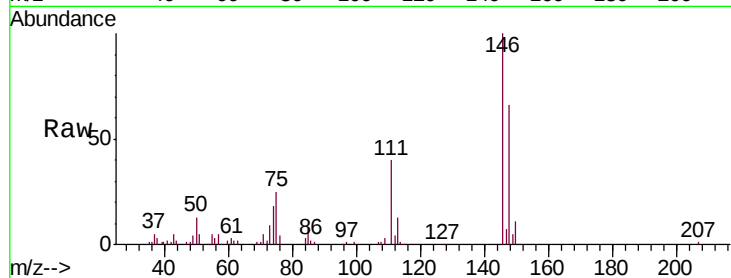




#63  
 1,3-Dichlorobenzene  
 Concen: 2.075 ug/L  
 RT: 13.50 min Scan# 1902  
 Delta R.T. -0.00 min  
 Lab File: VW013321.D  
 Acq: 27 Sep 2019 14:26

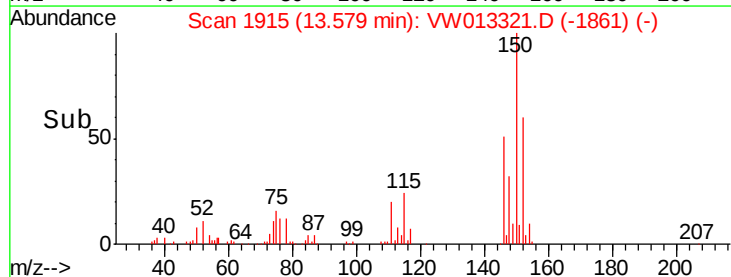
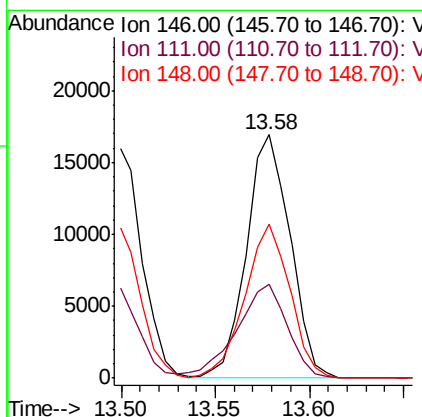
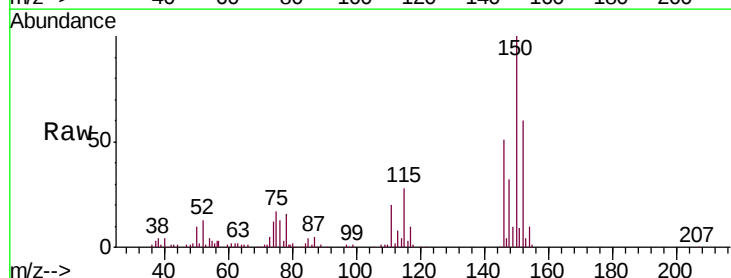
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 MDL06

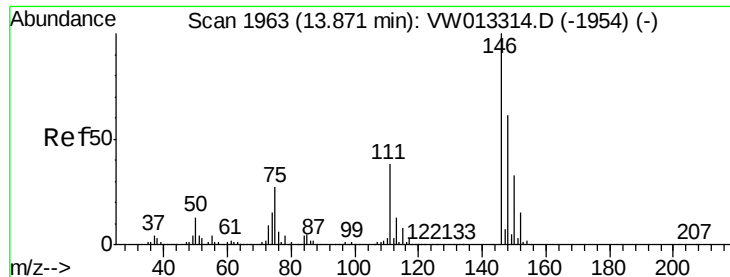
Tgt Ion:146 Resp: 26865  
 Ion Ratio Lower Upper  
 146 100  
 111 39.5 26.7 49.5  
 148 65.8 45.0 83.6



#64  
 1,4-Dichlorobenzene  
 Concen: 2.083 ug/L  
 RT: 13.58 min Scan# 1915  
 Delta R.T. -0.00 min  
 Lab File: VW013321.D  
 Acq: 27 Sep 2019 14:26

Tgt Ion:146 Resp: 27256  
 Ion Ratio Lower Upper  
 146 100  
 111 38.8 24.2 45.0  
 148 63.2 45.1 83.7

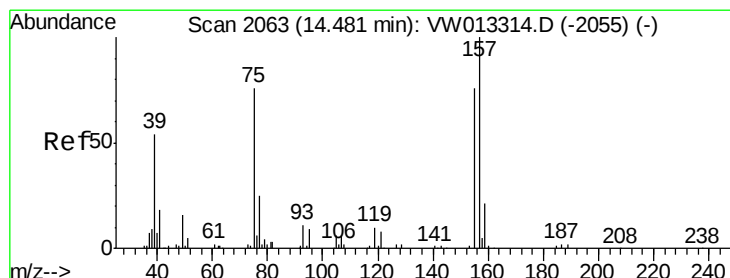
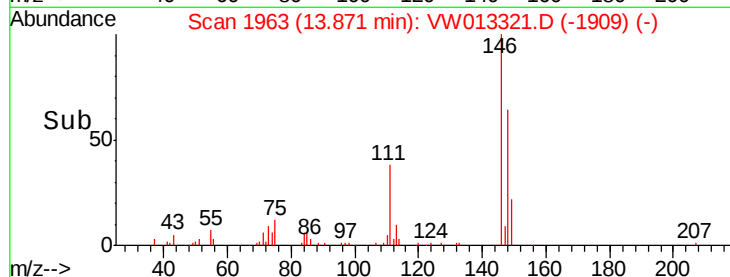
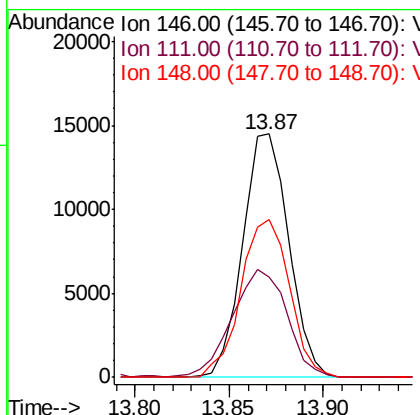
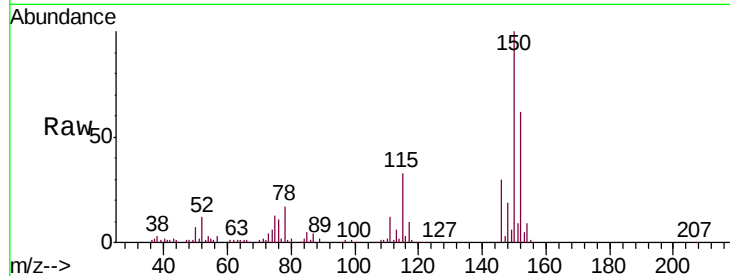




#65  
 1,2-Dichlorobenzene  
 Concen: 2.084 ug/L  
 RT: 13.87 min Scan# 1963  
 Delta R.T. -0.00 min  
 Lab File: VW013321.D  
 Acq: 27 Sep 2019 14:26

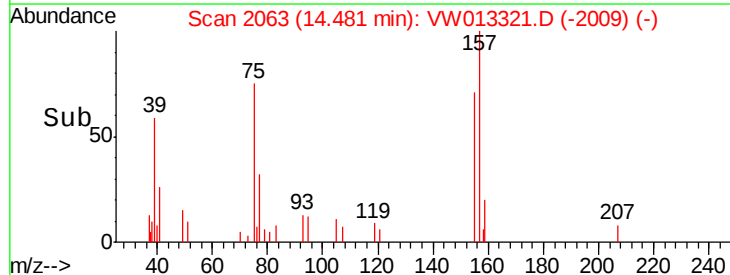
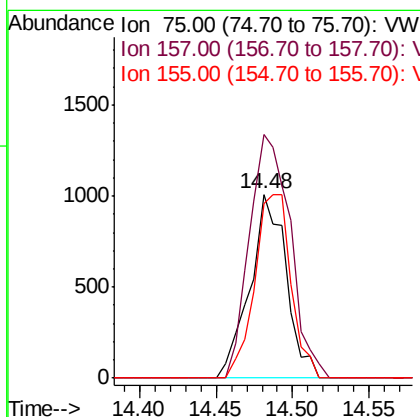
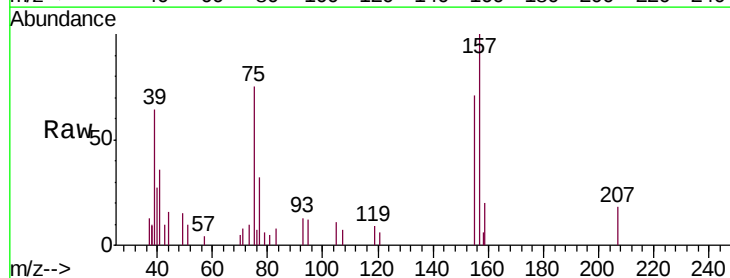
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 MDL06

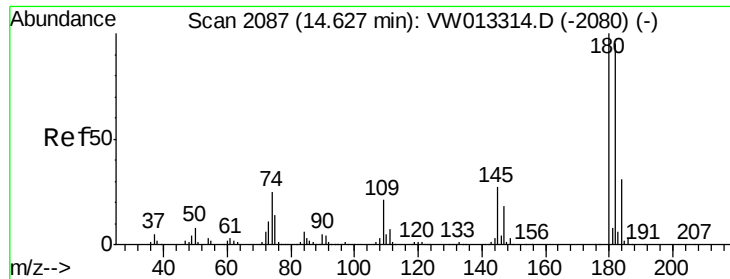
Tgt Ion: 146 Resp: 24547  
 Ion Ratio Lower Upper  
 146 100  
 111 41.3 30.8 46.2  
 148 64.8 52.5 78.7



#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 1.803 ug/L  
 RT: 14.48 min Scan# 2063  
 Delta R.T. -0.00 min  
 Lab File: VW013321.D  
 Acq: 27 Sep 2019 14:26

Tgt Ion: 75 Resp: 1673  
 Ion Ratio Lower Upper  
 75 100  
 157 132.6 97.8 146.8  
 155 94.7 78.4 117.6

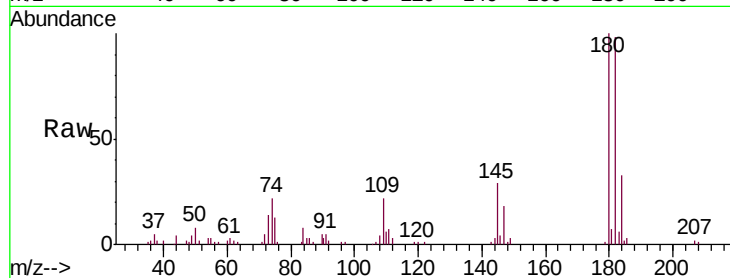




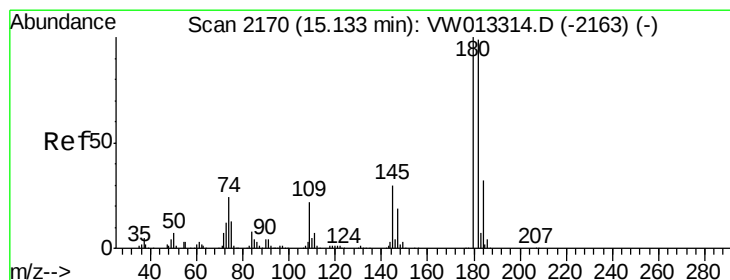
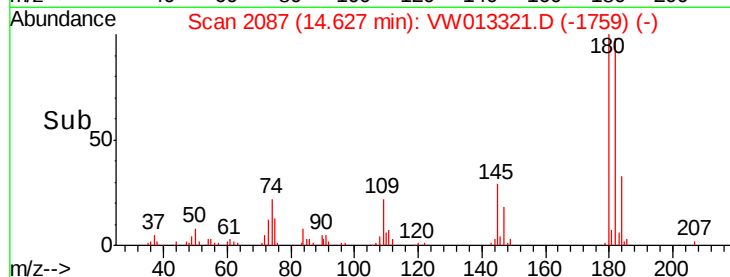
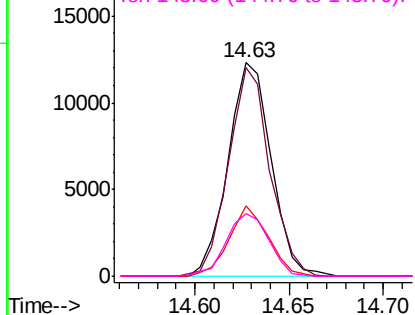
#67  
 1,3,5-Trichlorobenzene  
 Concen: 1.959 ug/L  
 RT: 14.63 min Scan# 2087  
 Delta R.T. -0.00 min  
 Lab File: VW013321.D  
 Acq: 27 Sep 2019 14:26

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 MDL06

Tgt Ion:180 Resp: 19524  
 Ion Ratio Lower Upper  
 180 100  
 182 94.1 76.4 114.6  
 184 29.8 23.9 35.9  
 145 29.1 21.7 32.5

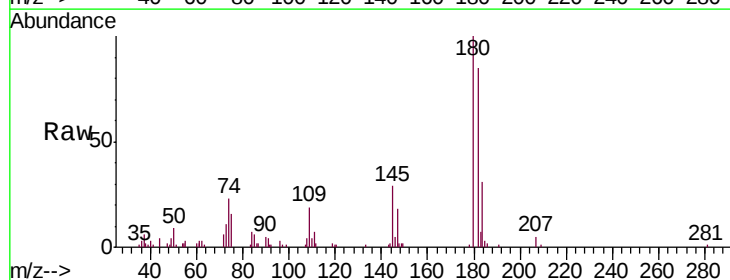


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

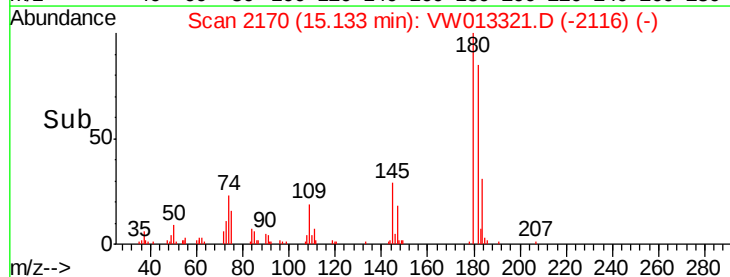
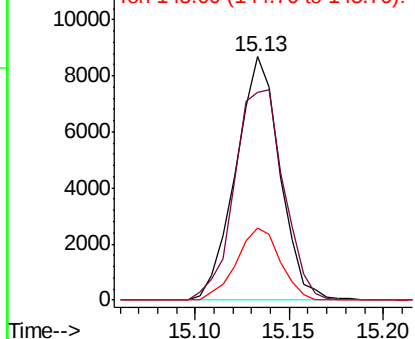


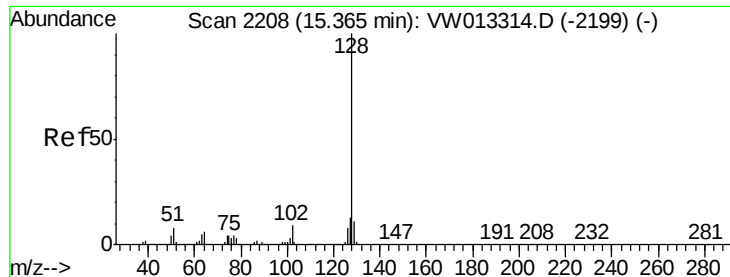
#68  
 1,2,4-trichlorobenzene  
 Concen: 1.772 ug/L  
 RT: 15.13 min Scan# 2170  
 Delta R.T. -0.00 min  
 Lab File: VW013321.D  
 Acq: 27 Sep 2019 14:26

Tgt Ion:180 Resp: 14103  
 Ion Ratio Lower Upper  
 180 100  
 182 96.3 75.9 113.9  
 145 29.1 23.0 34.4



Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 1.518 ug/L

RT: 15.37 min Scan# 2209

Delta R.T. 0.01 min

Lab File: VW013321.D

Acq: 27 Sep 2019 14:26

Instrument :

MSVOA\_W

ClientSampleId :

MDL06

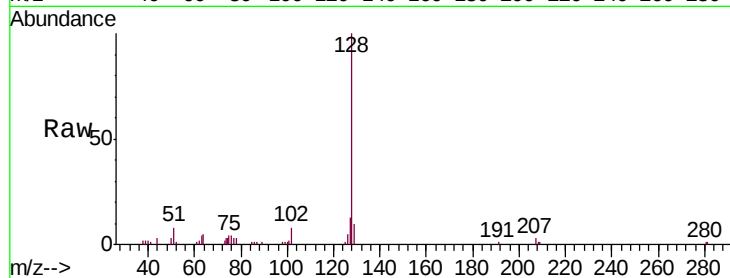
Tgt Ion:128 Resp: 23070

Ion Ratio Lower Upper

128 100

129 11.6 8.7 13.1

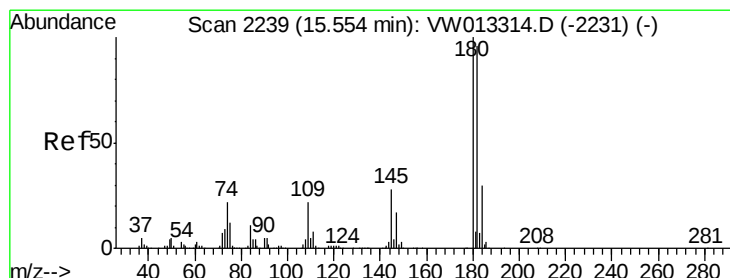
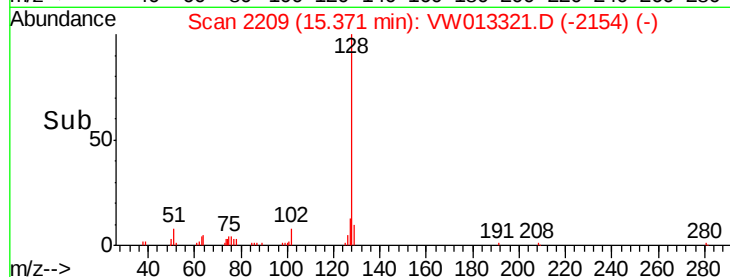
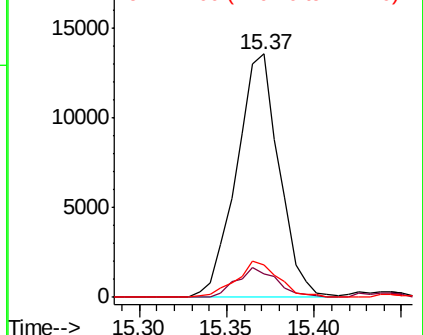
127 14.3 10.6 15.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 1.813 ug/L

RT: 15.56 min Scan# 2240

Delta R.T. 0.01 min

Lab File: VW013321.D

Acq: 27 Sep 2019 14:26

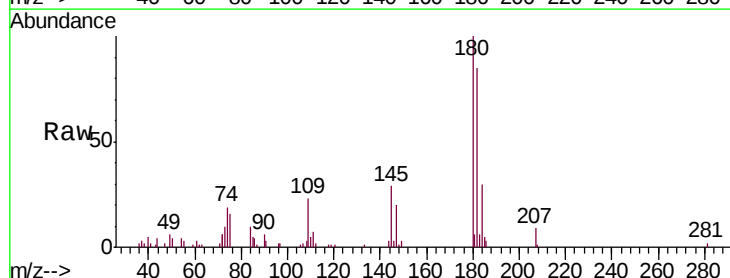
Tgt Ion:180 Resp: 13120

Ion Ratio Lower Upper

180 100

182 94.5 78.2 117.4

145 32.0 24.1 36.1



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

