

Data File : VW014981.D  
Acq On : 13 Feb 2020 15:37  
Operator : SY/VA  
Sample : MDL03  
Misc : 5.00G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
MDL03

Quant Time: Feb 14 04:22:44 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SFAMWLM021320SMA.M  
Quant Title : SFAM01.0  
QLast Update : Thu Feb 13 12:39:02 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 727756   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 678990   | 25.00 | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 266929   | 25.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.36   | 65    | 373382   | 25.48    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 101.92% |
| 7) Chloroethane-d5             | 2.89   | 69    | 280668   | 25.13    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 100.52% |
| 11) 1,1-Dichloroethene-d2      | 4.02   | 63    | 497657   | 18.93    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 75.72%  |
| 21) 2-Butanone-d5              | 7.07   | 46    | 206280   | 50.50    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 101.00% |
| 24) Chloroform-d               | 7.65   | 84    | 580637   | 24.84    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 99.36%  |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 361722   | 26.38    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 105.52% |
| 32) Benzene-d6                 | 8.27   | 84    | 1175895  | 25.70    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 102.80% |
| 36) 1,2-Dichloropropane-d6     | 9.27   | 67    | 407328   | 25.88    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 103.52% |
| 41) Toluene-d8                 | 10.32  | 98    | 997664   | 25.85    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 103.40% |
| 43) trans-1,3-Dichloropropene- | 10.57  | 79    | 150688   | 25.21    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 100.84% |
| 47) 2-Hexanone-d5              | 10.92  | 63    | 143463   | 51.26    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 102.52% |
| 56) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 294858   | 25.11    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 100.44% |
| 66) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 278105   | 27.68    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 110.72% |

#### Target Compounds

|                                |      |     |       |              | Qvalue |
|--------------------------------|------|-----|-------|--------------|--------|
| 2) Dichlorodifluoromethane     | 2.01 | 85  | 6870  | 0.950 ug/L   | 98     |
| 3) Chloromethane               | 2.21 | 50  | 14738 | 1.084 ug/L   | 94     |
| 5) Vinyl chloride              | 2.36 | 62  | 19508 | 1.115 ug/L # | 40     |
| 6) Bromomethane                | 2.78 | 94  | 8743  | 1.101 ug/L   | 95     |
| 9) Trichlorofluoromethane      | 3.25 | 101 | 6292  | 0.910 ug/L   | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 4.06 | 101 | 7909  | 0.699 ug/L # | 65     |
| 12) 1,1-Dichloroethene         | 4.04 | 96  | 14521 | 1.339 ug/L # | 1      |
| 13) Acetone                    | 4.13 | 43  | 14830 | 3.478 ug/L   | 73     |
| 14) Carbon disulfide           | 4.39 | 76  | 37787 | 0.964 ug/L   | 98     |
| 16) Methylene chloride         | 4.92 | 84  | 52358 | 3.894 ug/L   | 94     |
| 17) trans-1,2-Dichloroethene   | 5.42 | 96  | 10524 | 0.962 ug/L   | 91     |
| 19) 1,1-Dichloroethane         | 6.21 | 63  | 24678 | 1.010 ug/L   | 95     |
| 20) cis-1,2-Dichloroethene     | 7.17 | 96  | 11332 | 1.005 ug/L   | 91     |
| 22) 2-Butanone                 | 7.17 | 43  | 15950 | 3.112 ug/L   | 88     |
| 23) Bromochloromethane         | 7.51 | 128 | 4911  | 1.073 ug/L   | 96     |
| 27) 1,2-Dichloroethane         | 8.40 | 62  | 17783 | 1.111 ug/L   | 98     |
| 29) Cyclohexane                | 7.95 | 56  | 17990 | 0.813 ug/L   | 99     |

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Instrument :  
MSVOA\_W  
ClientSampleId :  
MDL03

Quant Time: Feb 14 04:22:44 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SFAMWLM021320SMA.M  
Quant Title : SFAM01.0  
QLast Update : Thu Feb 13 12:39:02 2020  
Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 30) 1,1,1-Trichloroethane      | 7.87  | 97   | 16269    | 0.985 | ug/L   | 100      |
| 31) Carbon tetrachloride       | 8.07  | 117  | 14349    | 0.964 | ug/L   | 96       |
| 33) Benzene                    | 8.32  | 78   | 52973    | 1.063 | ug/L   | 100      |
| 34) Trichloroethene            | 9.09  | 95   | 12225    | 1.024 | ug/L   | 98       |
| 35) Methylcyclohexane          | 9.34  | 83   | 17981    | 0.873 | ug/L   | 94       |
| 37) 1,2-Dichloropropane        | 9.37  | 63   | 13660    | 0.981 | ug/L # | 93       |
| 38) Bromodichloromethane       | 9.64  | 83   | 16190    | 1.033 | ug/L   | 94       |
| 39) cis-1,3-Dichloropropene    | 10.07 | 75   | 17570    | 0.943 | ug/L   | 94       |
| 40) 4-Methyl-2-pentanone       | 10.21 | 43   | 19712    | 1.989 | ug/L   | 99       |
| 42) Toluene                    | 10.38 | 91   | 50899    | 1.057 | ug/L   | 99       |
| 44) trans-1,3-Dichloropropene  | 10.60 | 75   | 16017    | 1.036 | ug/L   | 99       |
| 45) 1,1,2-Trichloroethane      | 10.79 | 97   | 8818     | 1.044 | ug/L   | 93       |
| 46) Tetrachloroethene          | 10.86 | 164  | 7520     | 0.970 | ug/L   | 93       |
| 48) 2-Hexanone                 | 10.97 | 43   | 14407    | 1.995 | ug/L # | 97       |
| 49) Dibromochloromethane       | 11.13 | 129  | 8358     | 0.950 | ug/L   | 99       |
| 50) 1,2-Dibromoethane          | 11.23 | 107  | 7723     | 1.014 | ug/L   | 99       |
| 51) Chlorobenzene              | 11.65 | 112  | 29476    | 1.037 | ug/L   | 91       |
| 52) Ethylbenzene               | 11.73 | 91   | 46446    | 0.885 | ug/L   | 94       |
| 53) m,p-Xylene                 | 11.84 | 106  | 15141    | 0.822 | ug/L   | 97       |
| 54) o-Xylene                   | 12.16 | 106  | 13621    | 0.788 | ug/L   | 94       |
| 55) Styrene                    | 12.18 | 104  | 21599    | 0.725 | ug/L   | 98       |
| 57) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 13009    | 1.151 | ug/L # | 89       |
| 59) Bromoform                  | 12.35 | 173  | 4053     | 0.993 | ug/L # | 38       |
| 60) Isopropylbenzene           | 12.46 | 105  | 33874    | 0.811 | ug/L   | 98       |
| 61) 1,2,3-Trichloropropane     | 12.77 | 75   | 8856     | 1.132 | ug/L   | 95       |
| 62) 1,3,5-Trimethylbenzene     | 12.94 | 105  | 26407    | 0.793 | ug/L   | 98       |
| 63) 1,2,4-Trimethylbenzene     | 13.25 | 105  | 25154    | 0.772 | ug/L   | 98       |
| 64) 1,3-Dichlorobenzene        | 13.50 | 146  | 17575    | 1.020 | ug/L   | 96       |
| 65) 1,4-Dichlorobenzene        | 13.58 | 146  | 17981    | 1.013 | ug/L   | 96       |
| 67) 1,2-Dichlorobenzene        | 13.87 | 146  | 18320    | 1.149 | ug/L   | 96       |
| 68) 1,2-Dibromo-3-chloropropan | 14.48 | 75   | 2186     | 1.336 | ug/L # | 86       |
| 69) 1,3,5-Trichlorobenzene     | 14.63 | 180  | 10942    | 0.948 | ug/L   | 96       |
| 70) 1,2,4-trichlorobenzene     | 15.13 | 180  | 7556     | 0.873 | ug/L   | 98       |
| 71) Naphthalene                | 15.36 | 128  | 7065     | 0.795 | ug/L # | 96       |
| 72) 1,2,3-Trichlorobenzene     | 15.56 | 180  | 7311     | 0.912 | ug/L   | 97       |

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

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```
ALS Vial      : 1      Sample Multiplier: 1
```

**Instrument :**  
MSVOA\_W  
**ClientSampleId :**  
MDL03

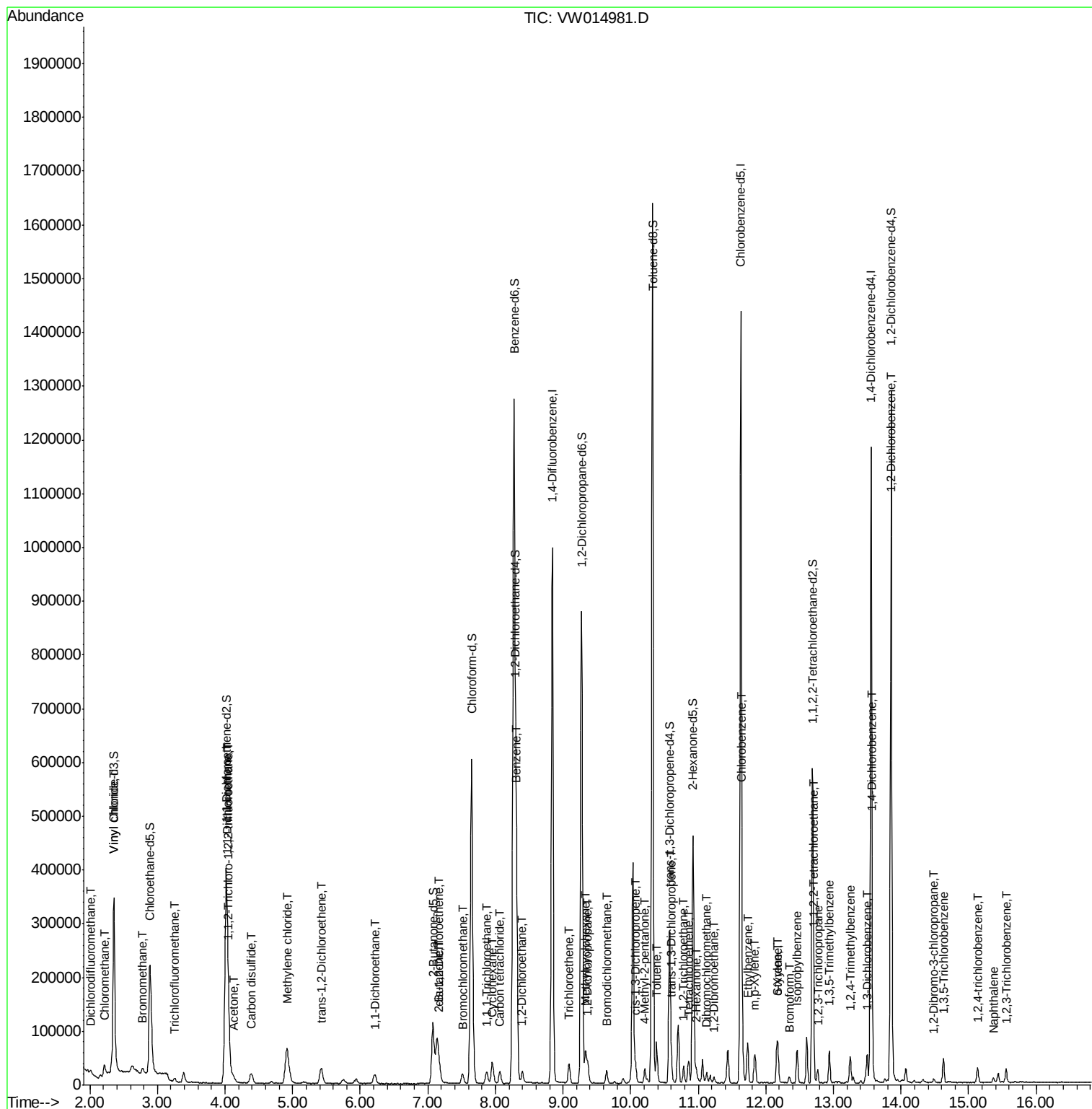
Quant Time: Feb 14 04:22:44 2020

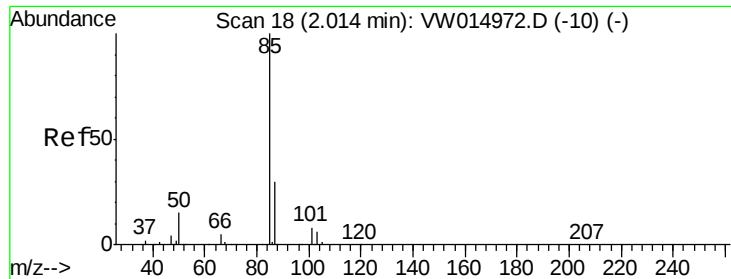
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Quant Title : SFAM01.0

QLast Update : Thu Feb 13 12:39:02 2020

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 0.950 ug/L

RT: 2.01 min Scan# 18

Delta R.T. -0.00 min

Lab File: VW014981.D

Acq: 13 Feb 2020 15:37

Instrument :

MSVOA\_W

ClientSampled :

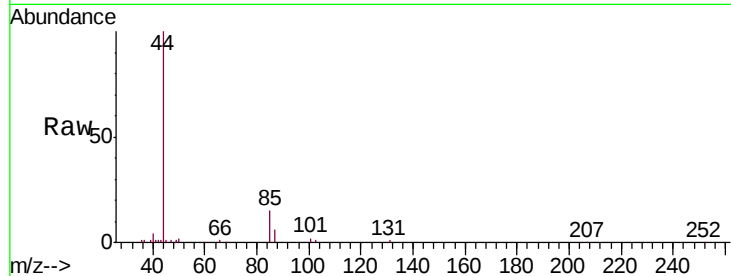
MDL03

Tgt Ion: 85 Resp: 6870

Ion Ratio Lower Upper

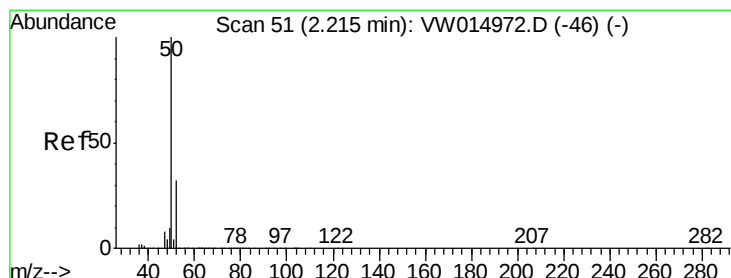
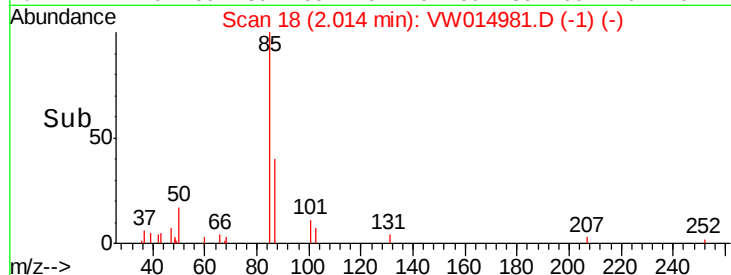
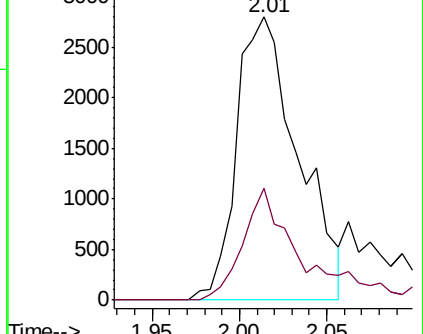
85 100

87 27.8 21.5 32.3



Abundance Ion 85.00 (84.70 to 85.70): VW

Ion 87.00 (86.70 to 87.70): VW



#3

Chloromethane

Concen: 1.084 ug/L

RT: 2.21 min Scan# 51

Delta R.T. -0.00 min

Lab File: VW014981.D

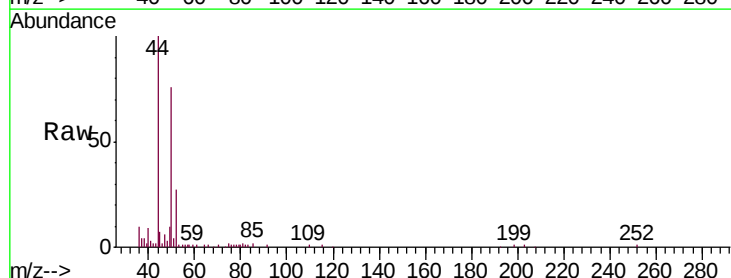
Acq: 13 Feb 2020 15:37

Tgt Ion: 50 Resp: 14738

Ion Ratio Lower Upper

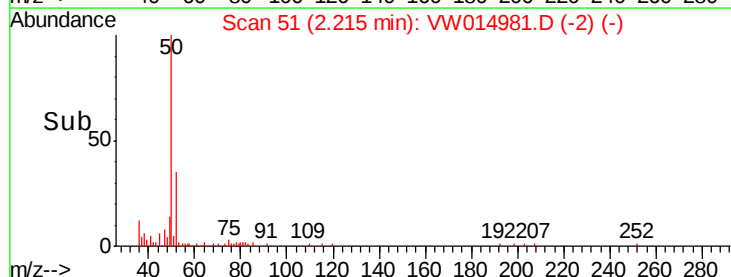
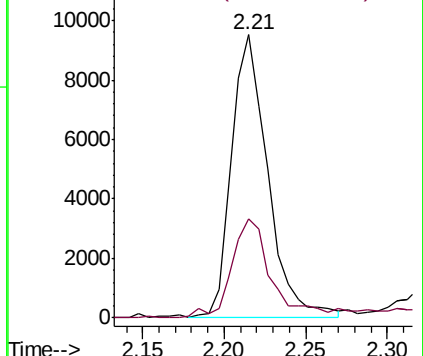
50 100

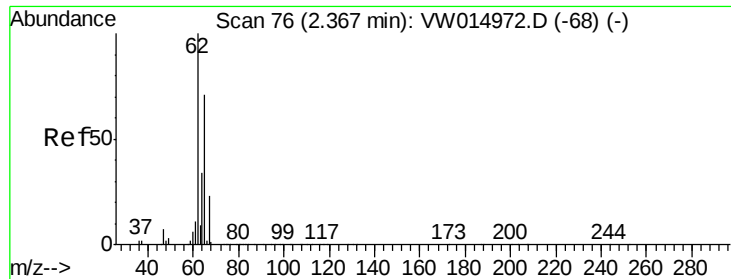
52 35.1 22.3 41.3



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW





#5

Vinyl chloride

Concen: 1.115 ug/L

RT: 2.36 min Scan# 75

Delta R.T. -0.01 min

Lab File: VW014981.D

Acq: 13 Feb 2020 15:37

Instrument :

MSVOA\_W

ClientSampleId :

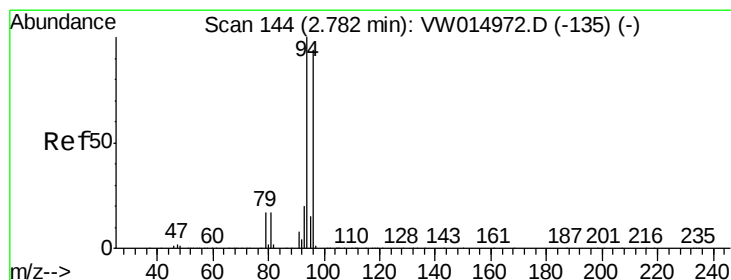
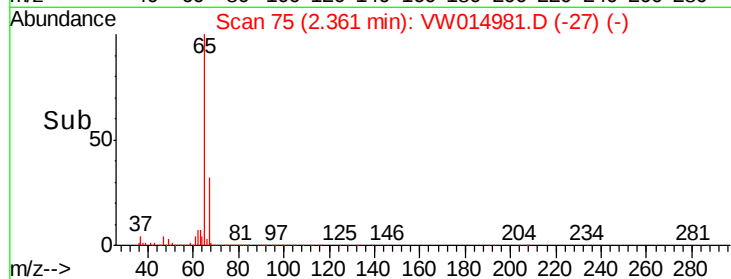
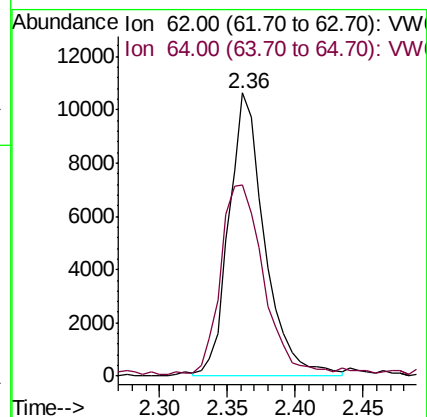
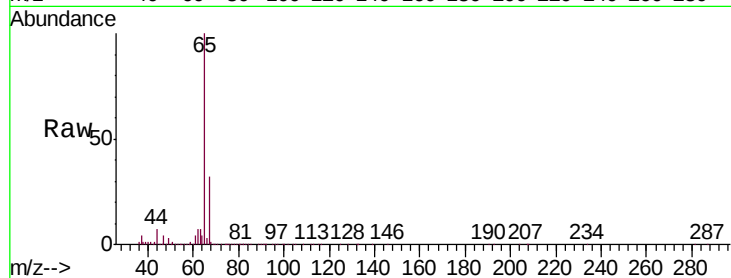
MDL03

Tgt Ion: 62 Resp: 19508

Ion Ratio Lower Upper

62 100

64 67.8 23.6 43.8#



#6

Bromomethane

Concen: 1.101 ug/L

RT: 2.78 min Scan# 144

Delta R.T. -0.00 min

Lab File: VW014981.D

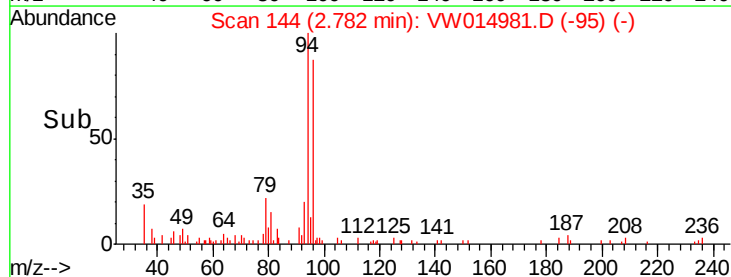
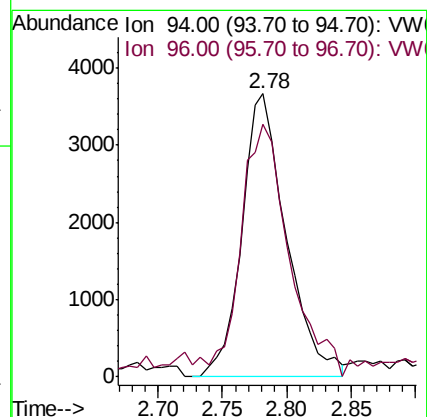
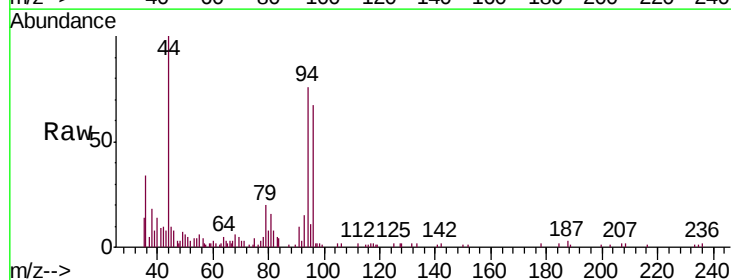
Acq: 13 Feb 2020 15:37

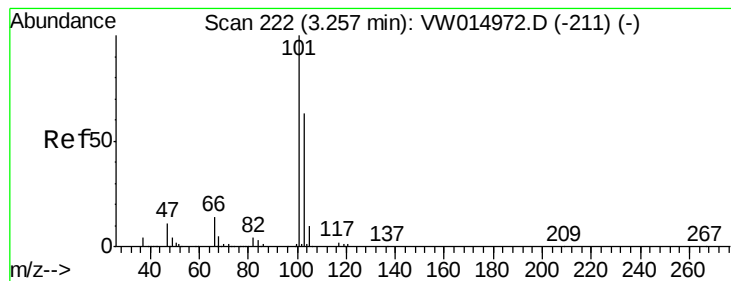
Tgt Ion: 94 Resp: 8743

Ion Ratio Lower Upper

94 100

96 89.0 65.8 122.2





#9

Trichlorofluoromethane

Concen: 0.910 ug/L

RT: 3.25 min Scan# 221

Delta R.T. -0.01 min

Lab File: VW014981.D

Acq: 13 Feb 2020 15:37

Instrument :

MSVOA\_W

ClientSampled :

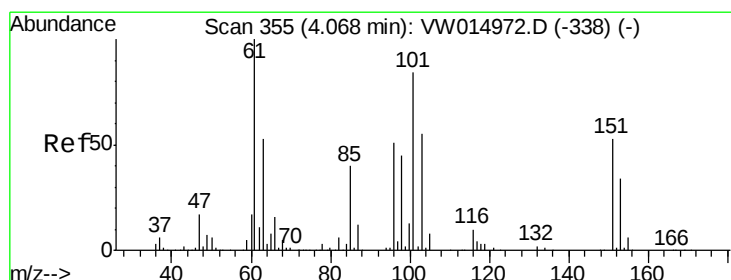
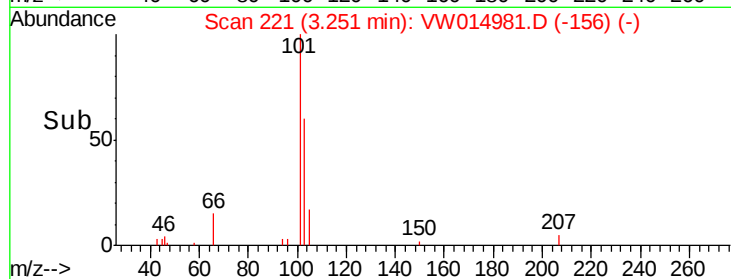
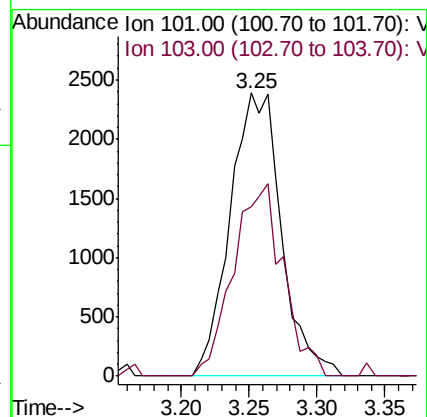
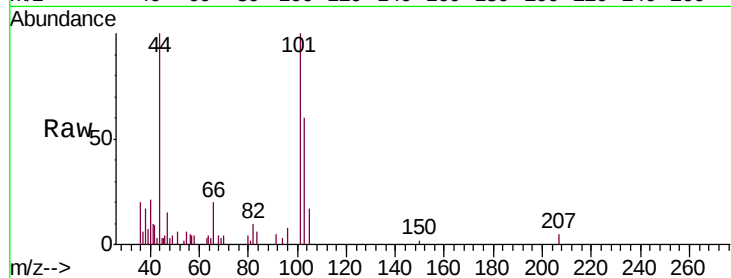
MDL03

Tgt Ion:101 Resp: 6292

Ion Ratio Lower Upper

101 100

103 63.5 51.5 77.3



#10

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

Concen: 0.699 ug/L

RT: 4.06 min Scan# 353

Delta R.T. -0.01 min

Lab File: VW014981.D

Acq: 13 Feb 2020 15:37

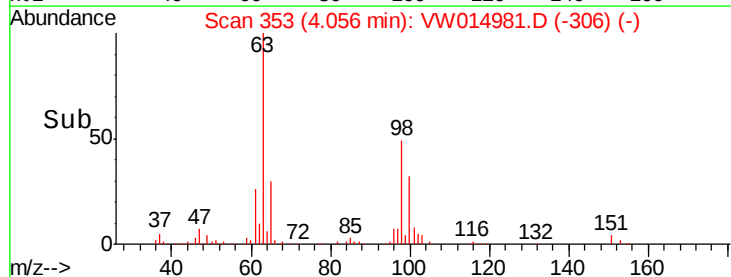
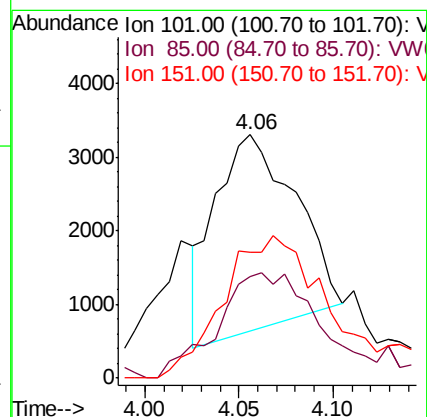
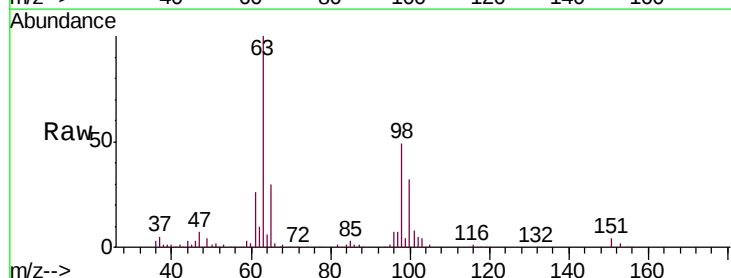
Tgt Ion:101 Resp: 7909

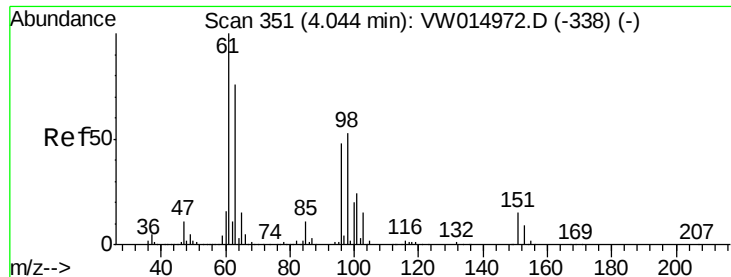
Ion Ratio Lower Upper

101 100

85 19.2 36.5 54.7#

151 39.0 50.2 75.4#





#12

1,1-Dichloroethene

Concen: 1.339 ug/L

RT: 4.04 min Scan# 350

Delta R.T. -0.01 min

Lab File: VW014981.D

Acq: 13 Feb 2020 15:37

Instrument :

MSVOA\_W

ClientSampleId :

MDL03

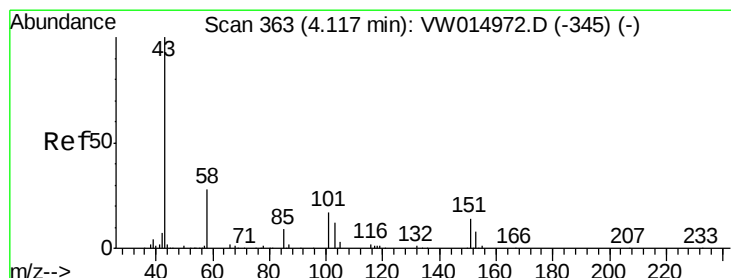
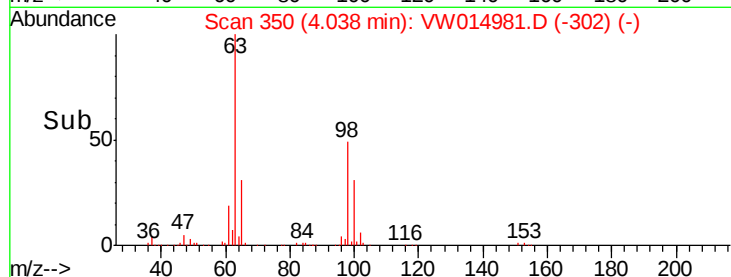
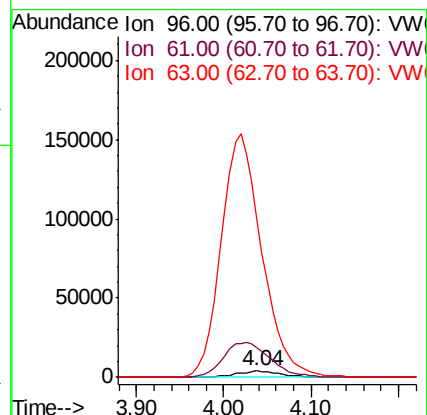
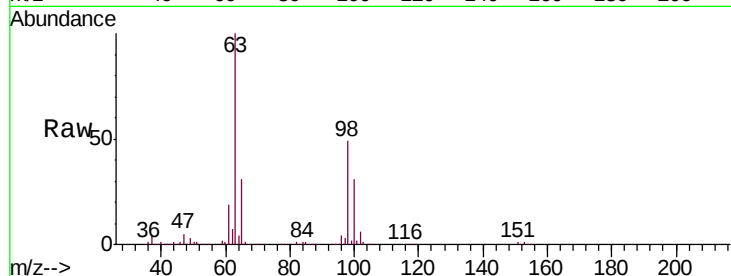
Tgt Ion: 96 Resp: 14521

Ion Ratio Lower Upper

96 100

61 472.9 147.0 273.0#

63 2520.5 113.4 210.6#



#13

Acetone

Concen: 3.478 ug/L

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW014981.D

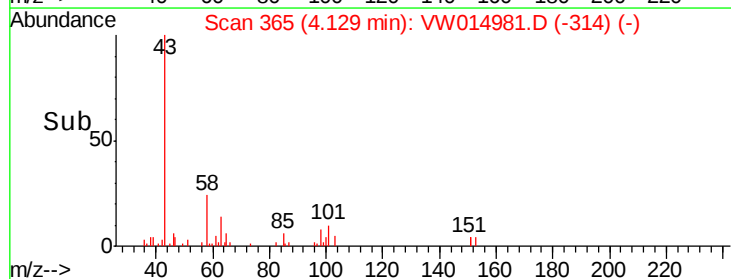
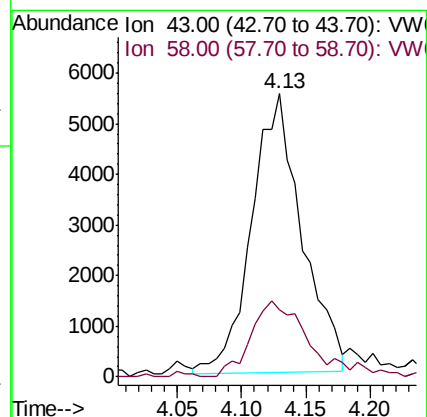
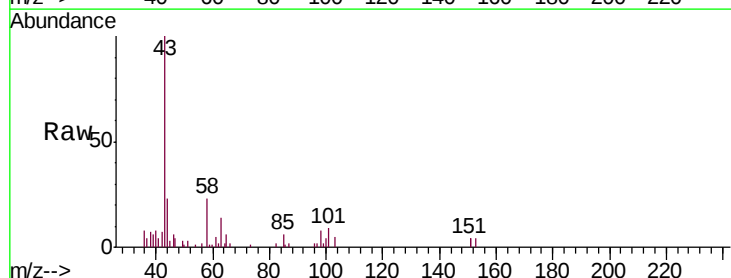
Acq: 13 Feb 2020 15:37

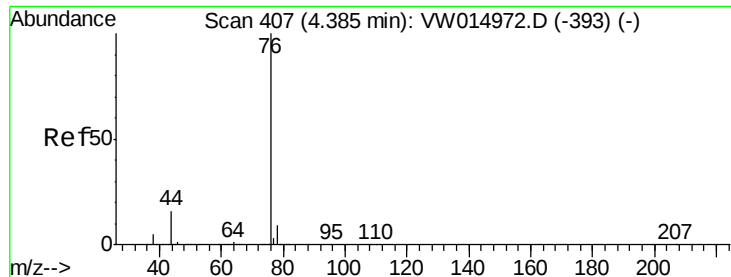
Tgt Ion: 43 Resp: 14830

Ion Ratio Lower Upper

43 100

58 13.3 0.0 54.6





#14

Carbon disulfide

Concen: 0.964 ug/L

RT: 4.39 min Scan# 407

Delta R.T. -0.00 min

Lab File: VW014981.D

Acq: 13 Feb 2020 15:37

Instrument :

MSVOA\_W

ClientSampled :

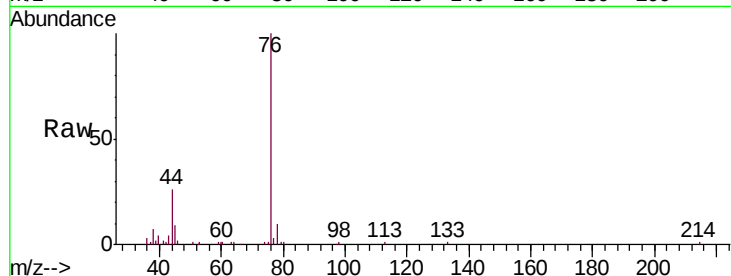
MDL03

Tgt Ion: 76 Resp: 37787

Ion Ratio Lower Upper

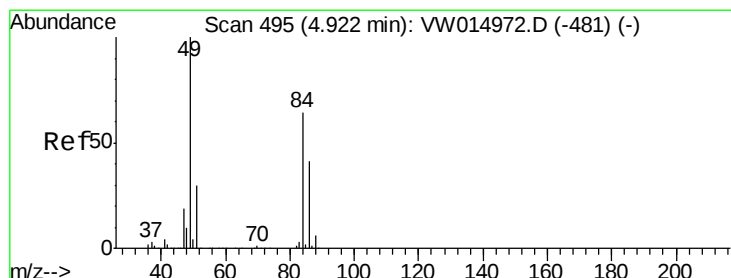
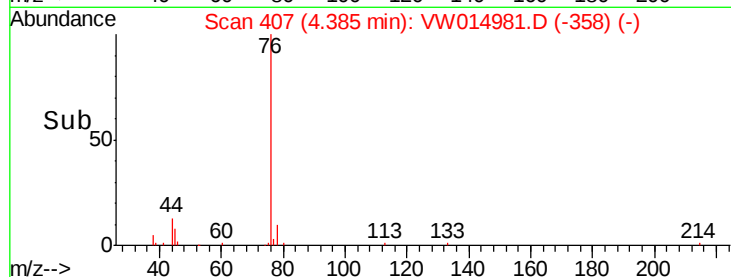
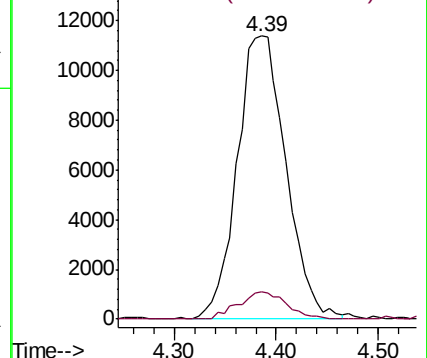
76 100

78 9.9 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW



#16

Methylene chloride

Concen: 3.894 ug/L

RT: 4.92 min Scan# 494

Delta R.T. -0.01 min

Lab File: VW014981.D

Acq: 13 Feb 2020 15:37

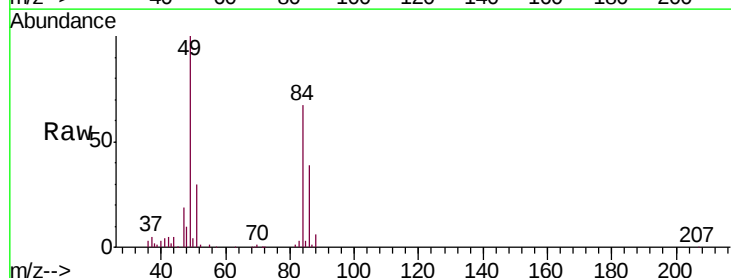
Tgt Ion: 84 Resp: 52358

Ion Ratio Lower Upper

84 100

86 57.4 44.4 82.4

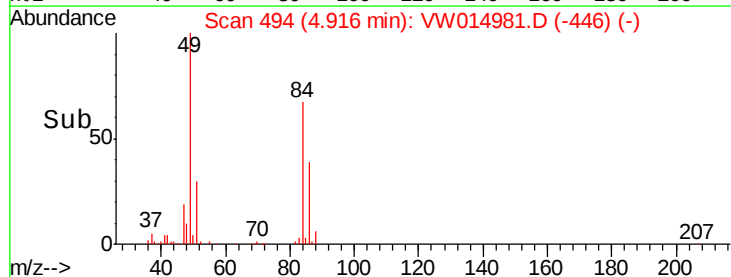
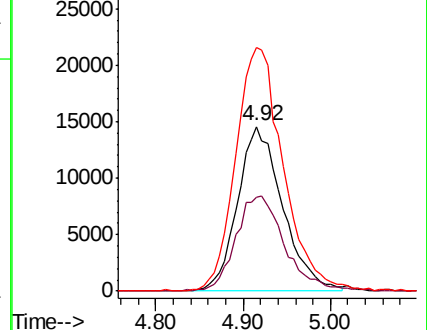
49 148.2 109.0 202.4

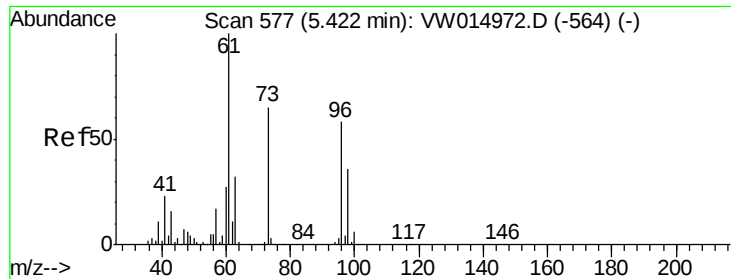


Abundance Ion 84.00 (83.70 to 84.70): VW

Ion 86.00 (85.70 to 86.70): VW

Ion 49.00 (48.70 to 49.70): VW





#17

trans-1,2-Dichloroethene

Concen: 0.962 ug/L

RT: 5.42 min Scan# 577

Delta R.T. -0.00 min

Lab File: VW014981.D

Acq: 13 Feb 2020 15:37

Instrument :

MSVOA\_W

ClientSampled :

MDL03

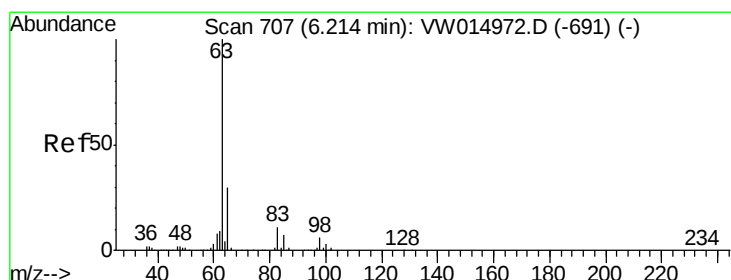
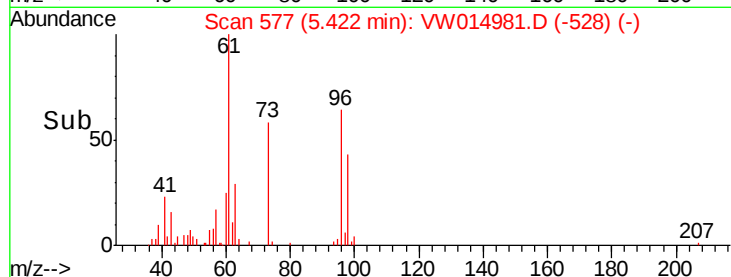
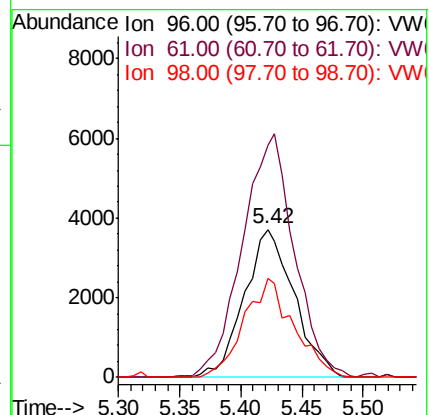
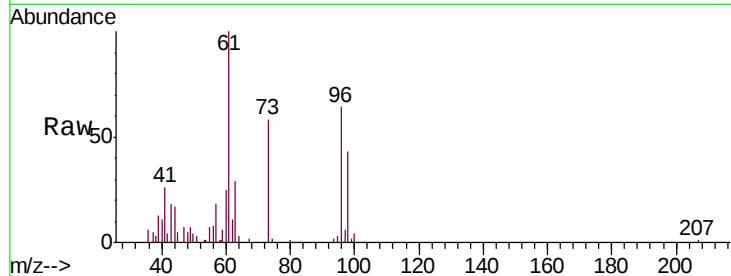
Tgt Ion: 96 Resp: 10524

Ion Ratio Lower Upper

96 100

61 156.9 120.1 223.1

98 66.7 43.8 81.3



#19

1,1-Dichloroethane

Concen: 1.010 ug/L

RT: 6.21 min Scan# 706

Delta R.T. -0.01 min

Lab File: VW014981.D

Acq: 13 Feb 2020 15:37

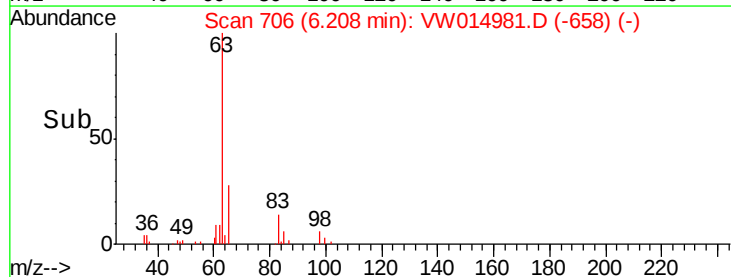
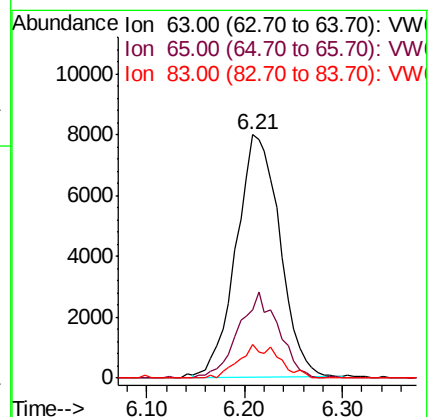
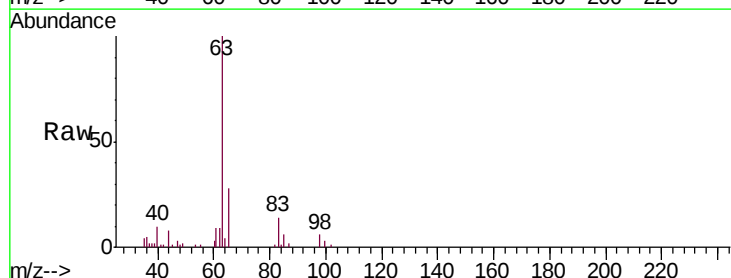
Tgt Ion: 63 Resp: 24678

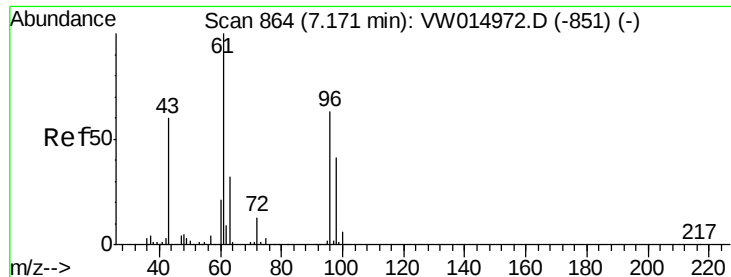
Ion Ratio Lower Upper

63 100

65 27.8 20.9 38.7

83 13.8 7.8 14.6

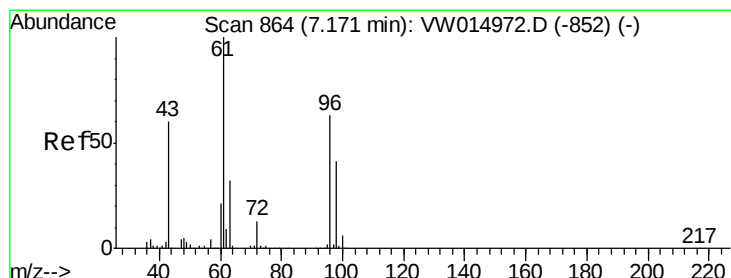
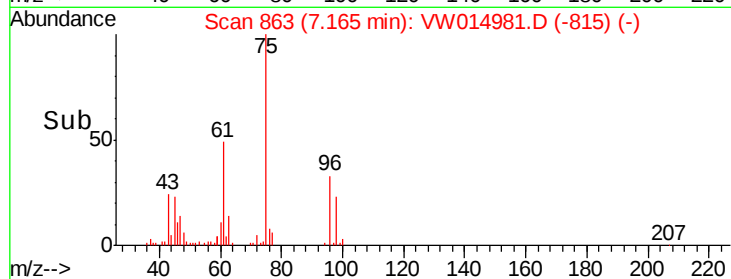
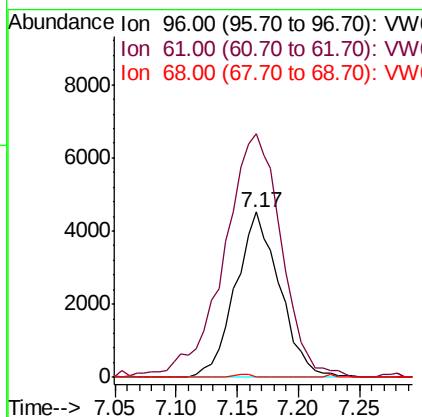
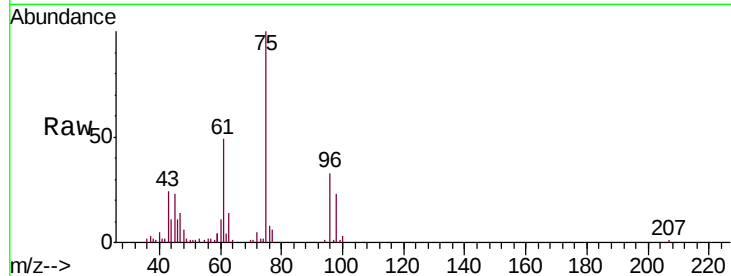




#20  
 cis-1,2-Dichloroethene  
 Concen: 1.005 ug/L  
 RT: 7.17 min Scan# 863  
 Delta R.T. -0.01 min  
 Lab File: VW014981.D  
 Acq: 13 Feb 2020 15:37

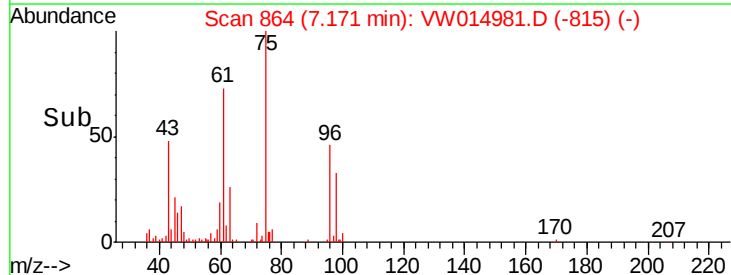
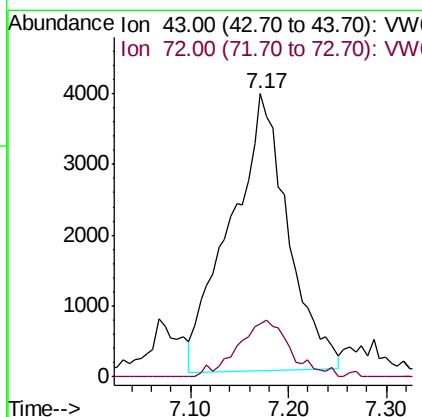
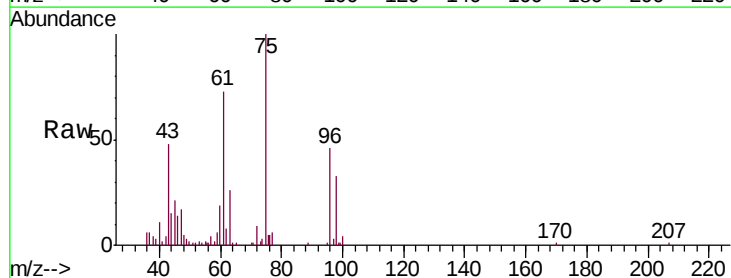
Instrument :  
 MSVOA\_W  
 ClientSampled :  
 MDL03

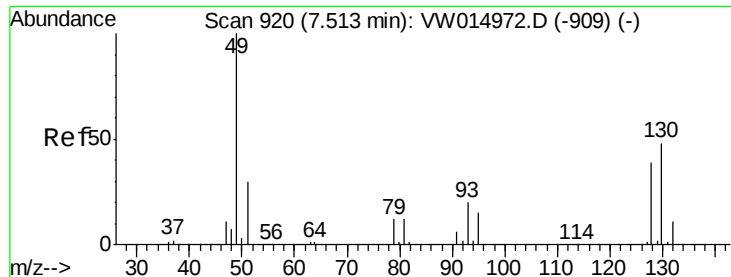
Tgt Ion: 96 Resp: 11332  
 Ion Ratio Lower Upper  
 96 100  
 61 147.5 111.5 207.1  
 68 0.0 0.0 0.0



#22  
 2-Butanone  
 Concen: 3.112 ug/L  
 RT: 7.17 min Scan# 864  
 Delta R.T. -0.00 min  
 Lab File: VW014981.D  
 Acq: 13 Feb 2020 15:37

Tgt Ion: 43 Resp: 15950  
 Ion Ratio Lower Upper  
 43 100  
 72 16.6 11.1 33.1





#23

Bromochloromethane

Concen: 1.073 ug/L

RT: 7.51 min Scan# 920

Delta R.T. -0.00 min

Lab File: VW014981.D

Acq: 13 Feb 2020 15:37

Instrument :

MSVOA\_W

ClientSampleId :

MDL03

Tgt Ion:128 Resp: 4911

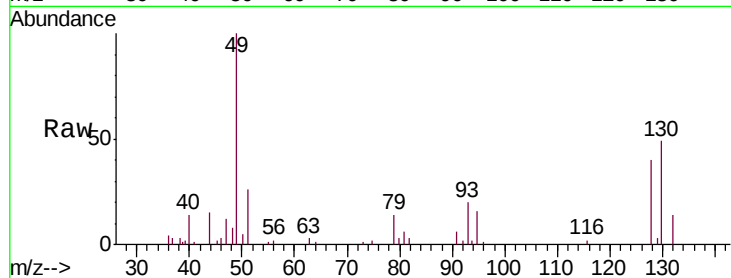
Ion Ratio Lower Upper

128 100

49 249.6 179.0 332.4

130 121.2 85.5 158.7

51 65.9 61.7 92.5

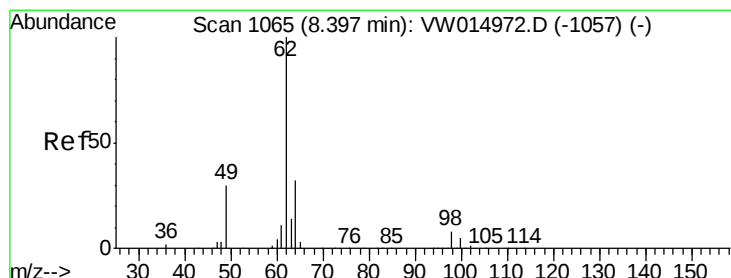
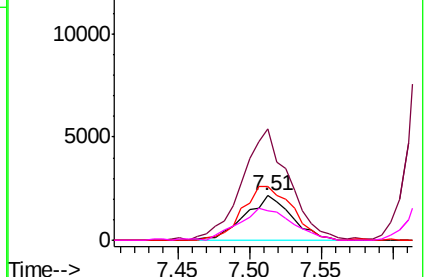
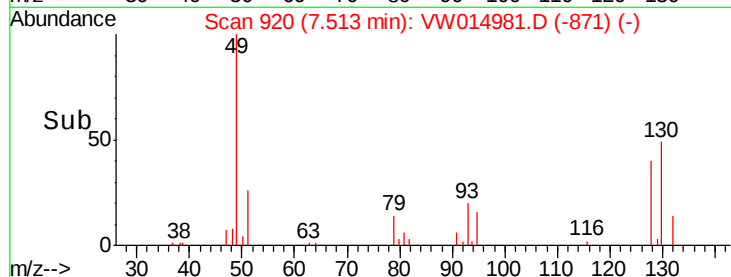


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VW

Ion 130.00 (129.70 to 130.70): V

Ion 51.00 (50.70 to 51.70): VW



#27

1,2-Dichloroethane

Concen: 1.111 ug/L

RT: 8.40 min Scan# 1065

Delta R.T. -0.00 min

Lab File: VW014981.D

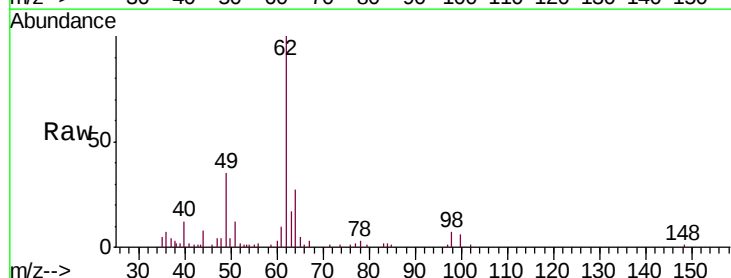
Acq: 13 Feb 2020 15:37

Tgt Ion: 62 Resp: 17783

Ion Ratio Lower Upper

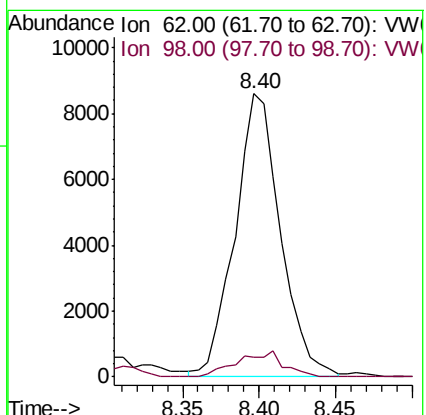
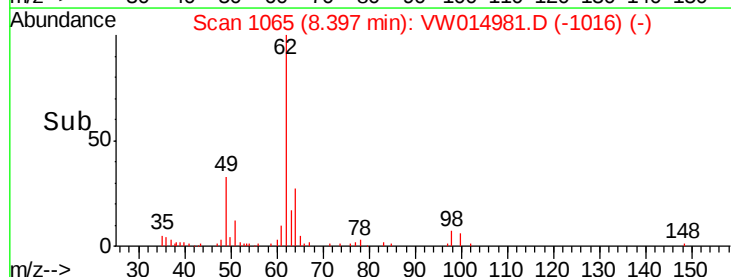
62 100

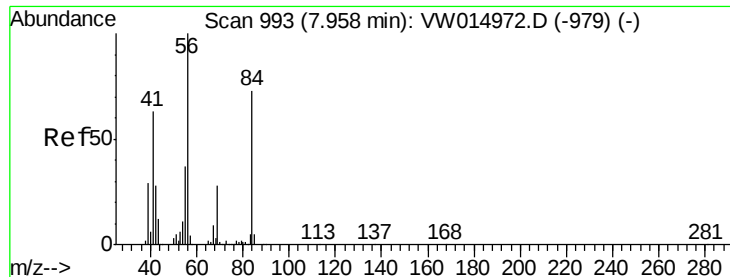
98 7.0 6.2 9.4



Abundance Ion 62.00 (61.70 to 62.70): VW

Ion 98.00 (97.70 to 98.70): VW

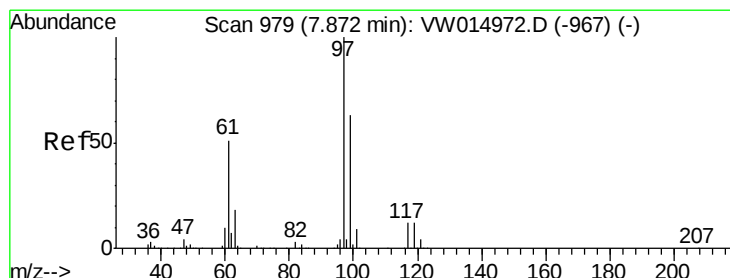
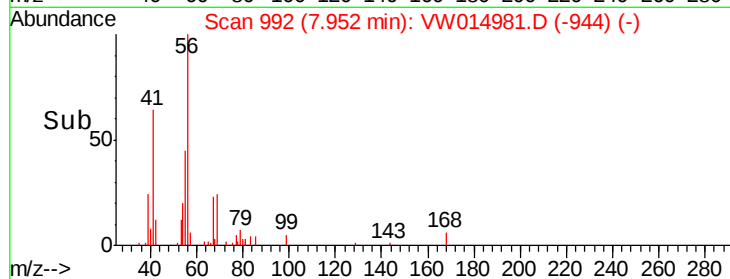
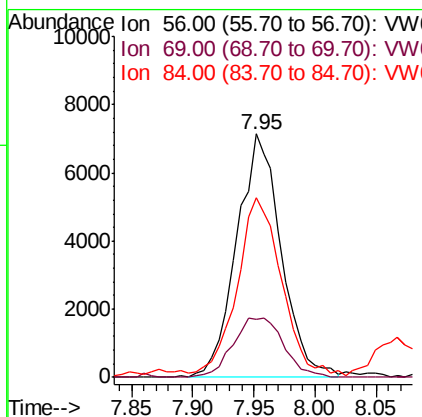
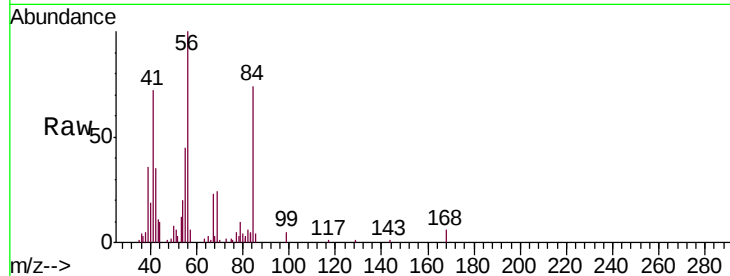




#29  
Cyclohexane  
Concen: 0.813 ug/L  
RT: 7.95 min Scan# 992  
Delta R.T. -0.01 min  
Lab File: VW014981.D  
Acq: 13 Feb 2020 15:37

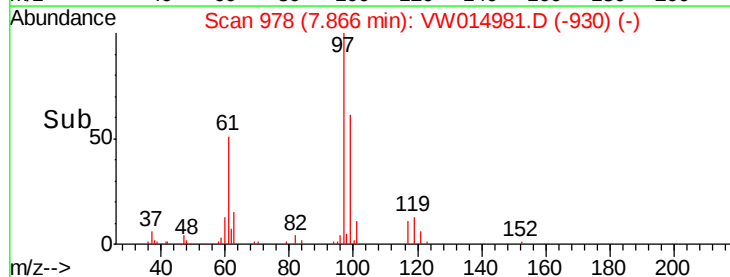
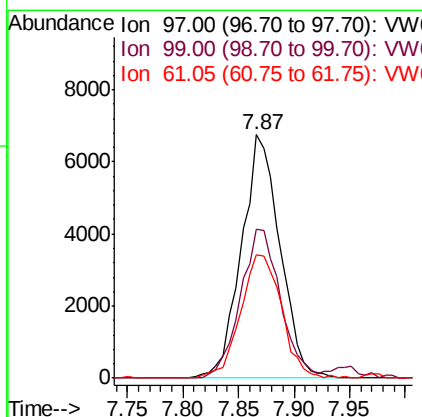
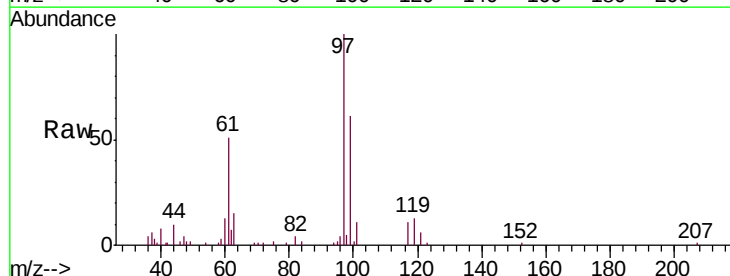
Instrument :  
MSVOA\_W  
ClientSampleId :  
MDL03

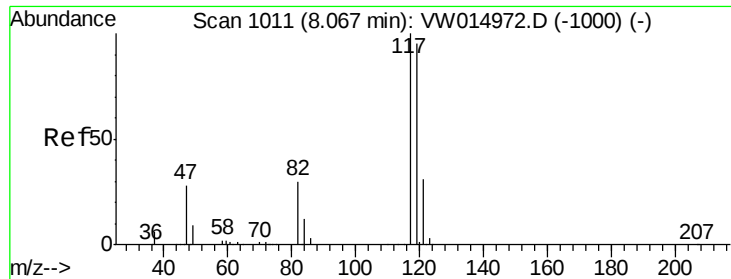
Tgt Ion: 56 Resp: 17990  
Ion Ratio Lower Upper  
56 100  
69 27.9 22.0 33.0  
84 71.3 57.8 86.6



#30  
1,1,1-Trichloroethane  
Concen: 0.985 ug/L  
RT: 7.87 min Scan# 978  
Delta R.T. -0.01 min  
Lab File: VW014981.D  
Acq: 13 Feb 2020 15:37

Tgt Ion: 97 Resp: 16269  
Ion Ratio Lower Upper  
97 100  
99 63.1 50.6 75.8  
61 53.8 42.7 64.1

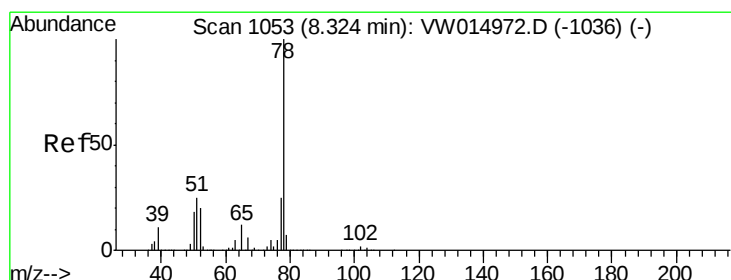
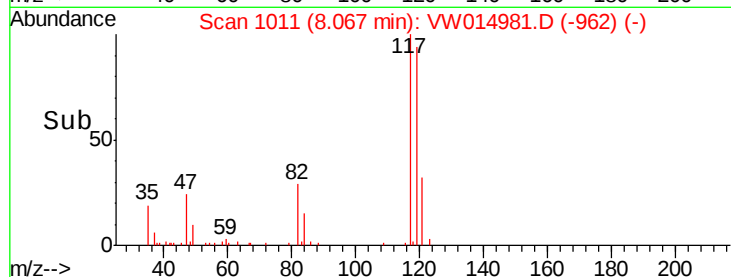
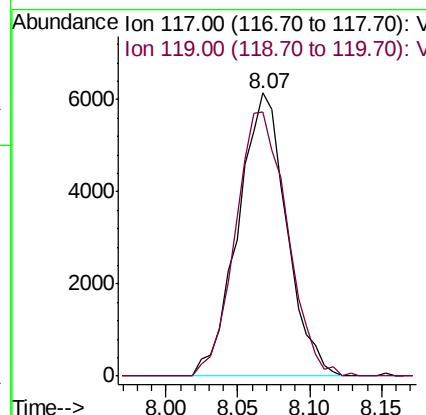
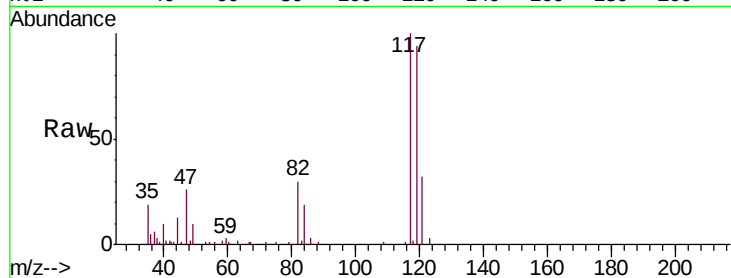




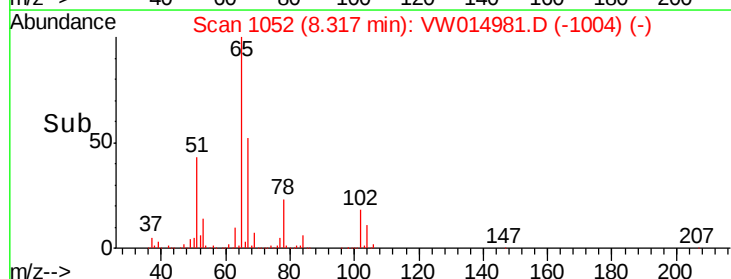
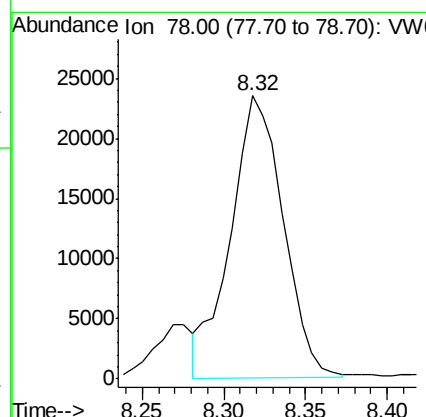
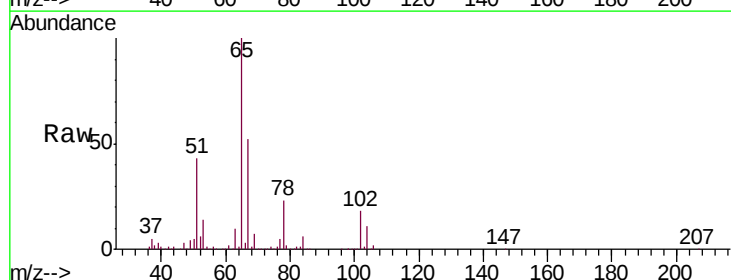
#31  
Carbon tetrachloride  
Concen: 0.964 ug/L  
RT: 8.07 min Scan# 1011  
Delta R.T. -0.00 min  
Lab File: VW014981.D  
Acq: 13 Feb 2020 15:37

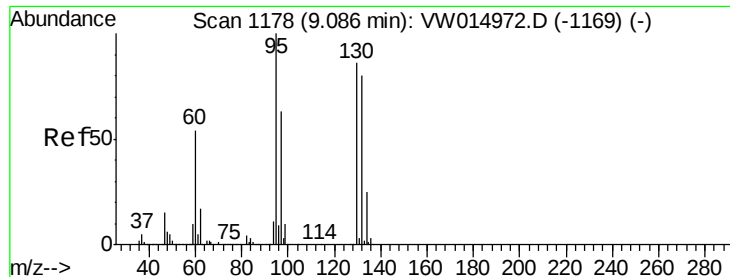
Instrument :  
MSVOA\_W  
ClientSampled :  
MDL03

Tgt Ion:117 Resp: 14349  
Ion Ratio Lower Upper  
117 100  
119 99.8 76.6 114.8



#33  
Benzene  
Concen: 1.063 ug/L  
RT: 8.32 min Scan# 1052  
Delta R.T. -0.01 min  
Lab File: VW014981.D  
Acq: 13 Feb 2020 15:37  
Tgt Ion: 78 Resp: 52973

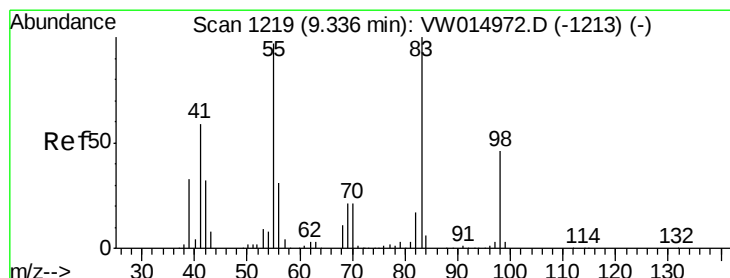
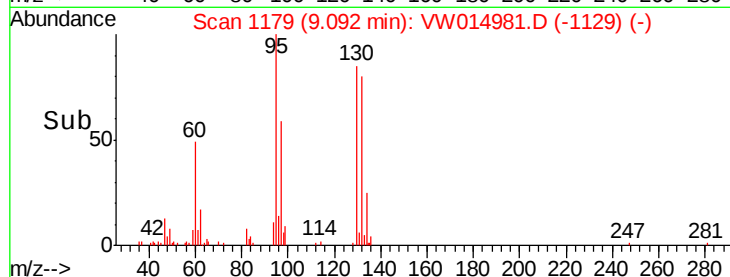
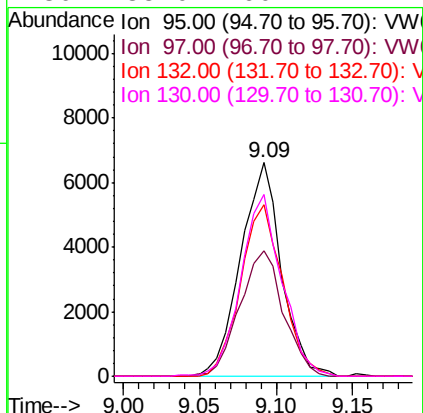
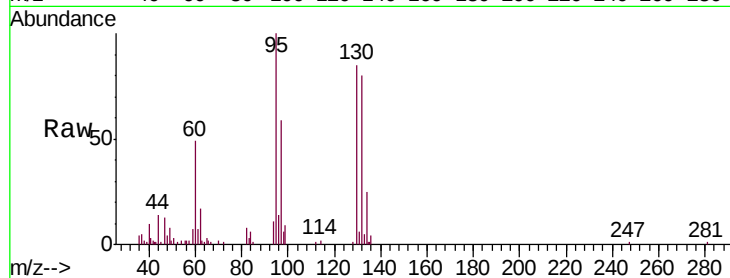




#34  
 Trichloroethene  
 Concen: 1.024 ug/L  
 RT: 9.09 min Scan# 1179  
 Delta R.T. 0.01 min  
 Lab File: VW014981.D  
 Acq: 13 Feb 2020 15:37

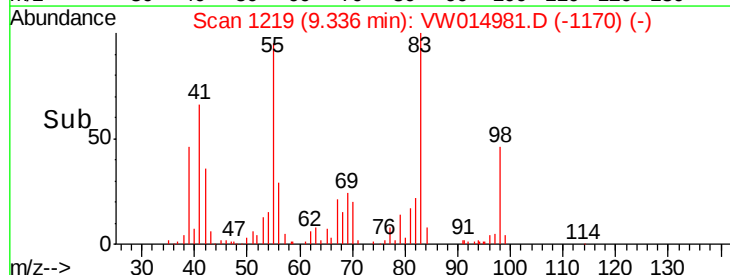
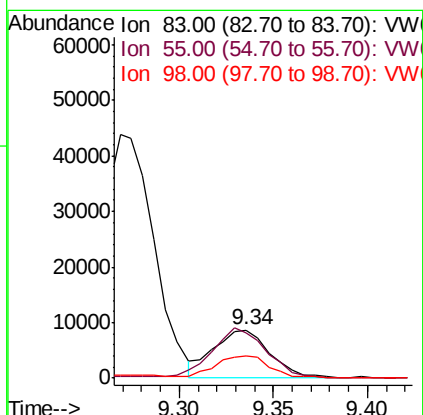
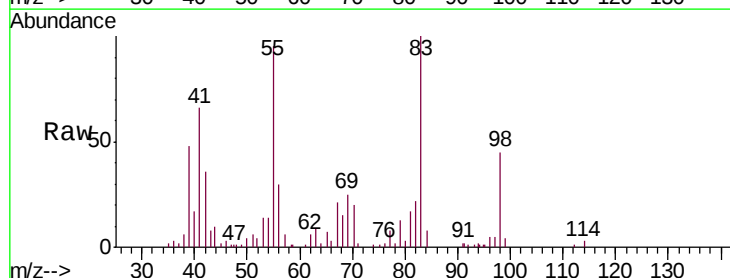
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 MDL03

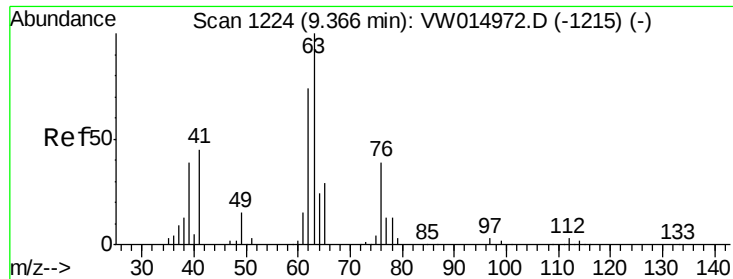
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 95    | Resp: | 12225 |
| Ion      | Ratio | Lower | Upper |
| 95       | 100   |       |       |
| 97       | 58.8  | 44.2  | 82.0  |
| 132      | 80.2  | 56.1  | 104.3 |
| 130      | 85.0  | 60.1  | 111.7 |



#35  
 Methylcyclohexane  
 Concen: 0.873 ug/L  
 RT: 9.34 min Scan# 1219  
 Delta R.T. -0.00 min  
 Lab File: VW014981.D  
 Acq: 13 Feb 2020 15:37

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 17981 |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 55       | 101.0 | 76.3  | 114.5 |
| 98       | 40.3  | 36.4  | 54.6  |

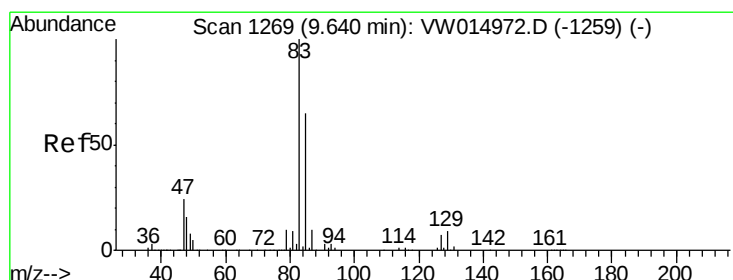
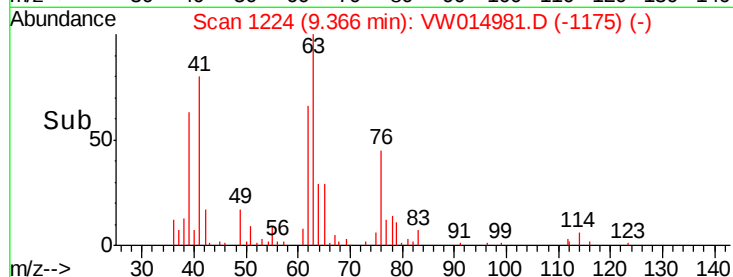
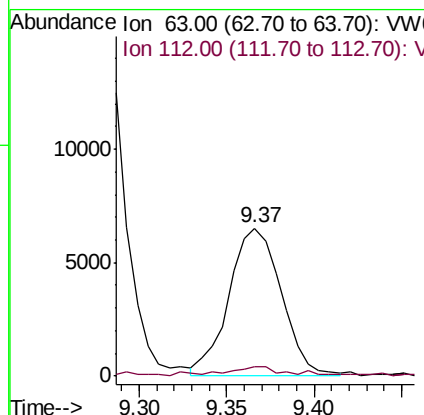
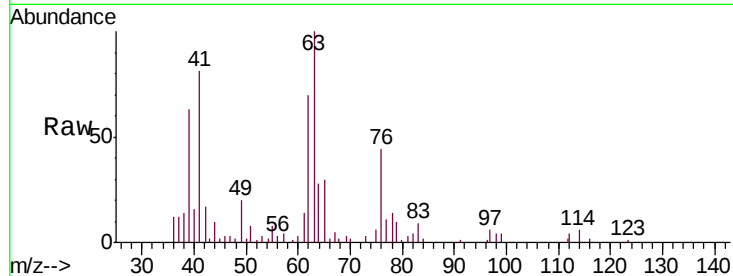




#37  
 1,2-Dichloropropane  
 Concen: 0.981 ug/L  
 RT: 9.37 min Scan# 1224  
 Delta R.T. -0.00 min  
 Lab File: VW014981.D  
 Acq: 13 Feb 2020 15:37

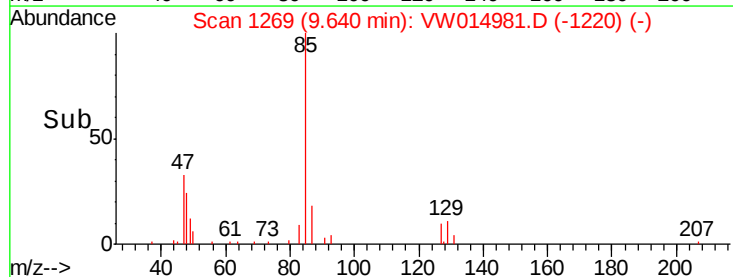
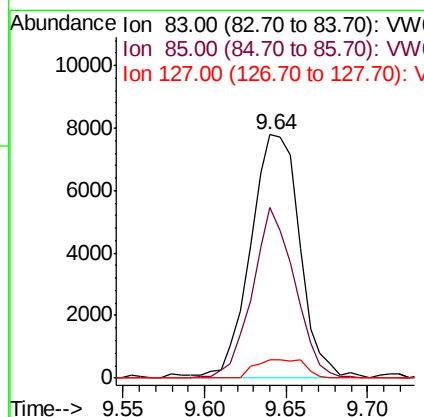
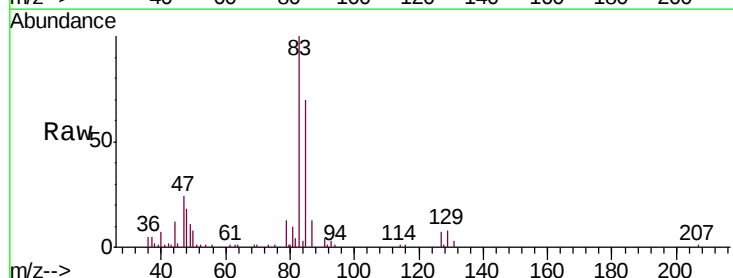
Instrument :  
 MSVOA\_W  
 ClientSampled :  
 MDL03

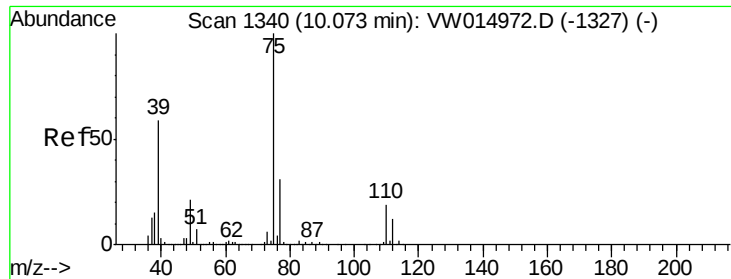
Tgt Ion: 63 Resp: 13660  
 Ion Ratio Lower Upper  
 63 100  
 112 5.7 2.6 4.0#



#38  
 Bromodichloromethane  
 Concen: 1.033 ug/L  
 RT: 9.64 min Scan# 1269  
 Delta R.T. -0.00 min  
 Lab File: VW014981.D  
 Acq: 13 Feb 2020 15:37

Tgt Ion: 83 Resp: 16190  
 Ion Ratio Lower Upper  
 83 100  
 85 70.0 45.2 84.0  
 127 7.3 5.5 8.3

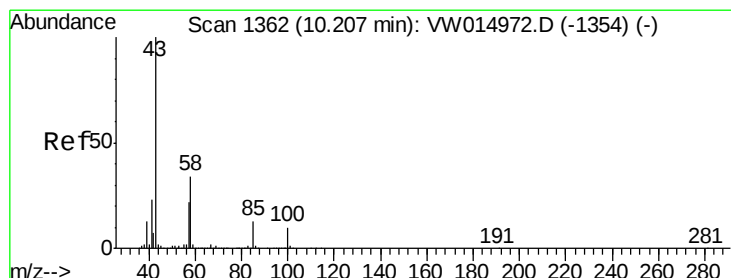
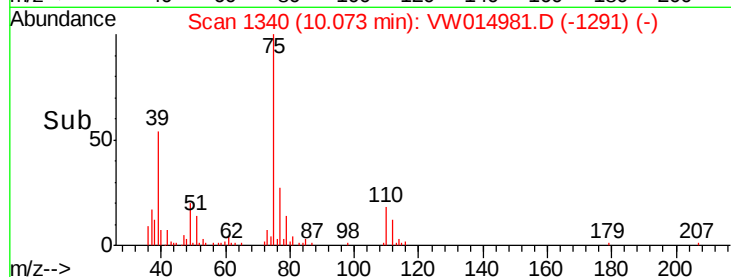
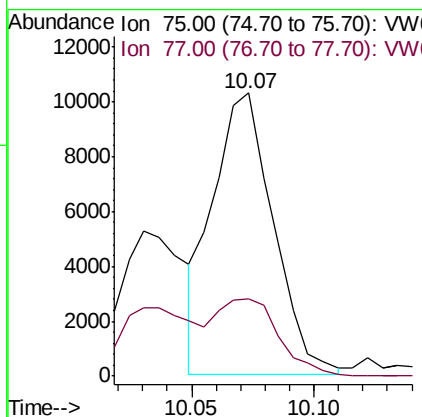
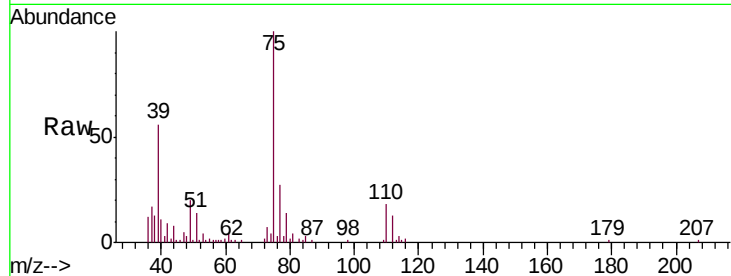




#39  
 cis-1,3-Dichloropropene  
 Concen: 0.943 ug/L  
 RT: 10.07 min Scan# 1340  
 Delta R.T. -0.00 min  
 Lab File: VW014981.D  
 Acq: 13 Feb 2020 15:37

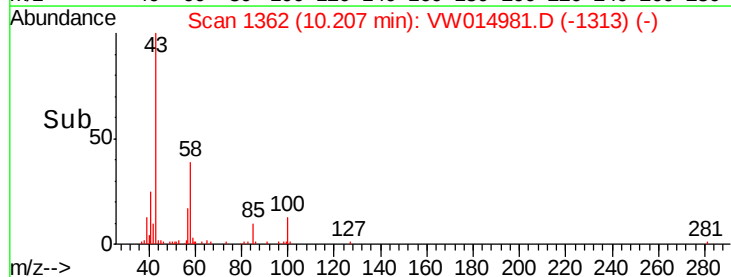
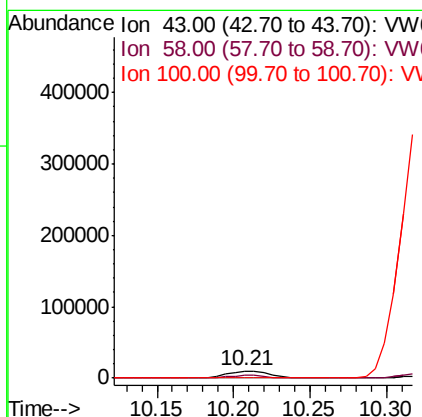
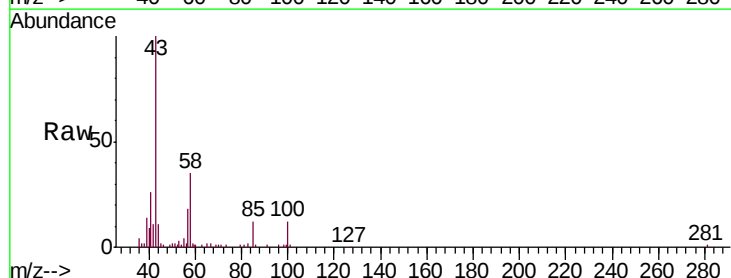
Instrument :  
 MSVOA\_W  
 ClientSampled :  
 MDL03

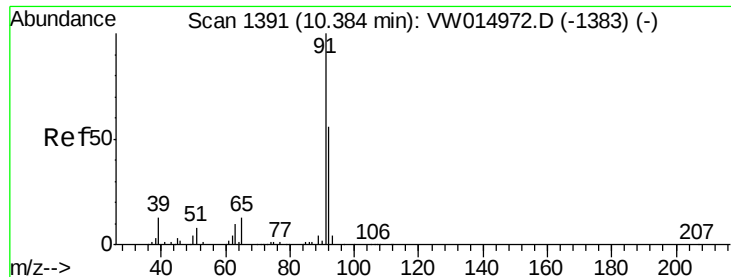
Tgt Ion: 75 Resp: 17570  
 Ion Ratio Lower Upper  
 75 100  
 77 27.3 21.6 40.2



#40  
 4-Methyl-2-pentanone  
 Concen: 1.989 ug/L  
 RT: 10.21 min Scan# 1362  
 Delta R.T. -0.00 min  
 Lab File: VW014981.D  
 Acq: 13 Feb 2020 15:37

Tgt Ion: 43 Resp: 19712  
 Ion Ratio Lower Upper  
 43 100  
 58 34.3 27.7 41.5  
 100 11.1 8.6 13.0





#42

Toluene

Concen: 1.057 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VW014981.D

Acq: 13 Feb 2020 15:37

Instrument :

MSVOA\_W

ClientSampled :

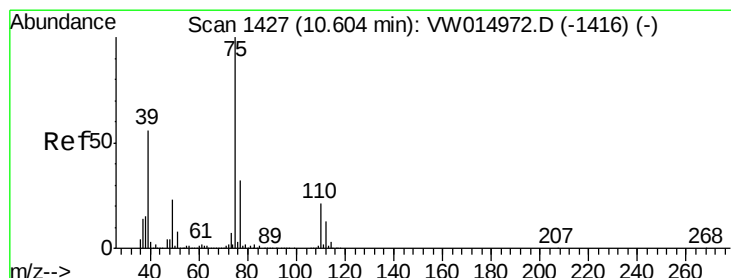
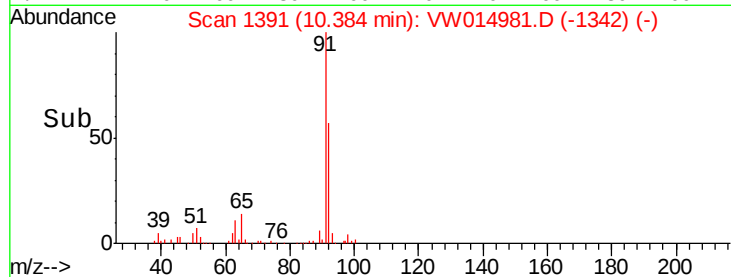
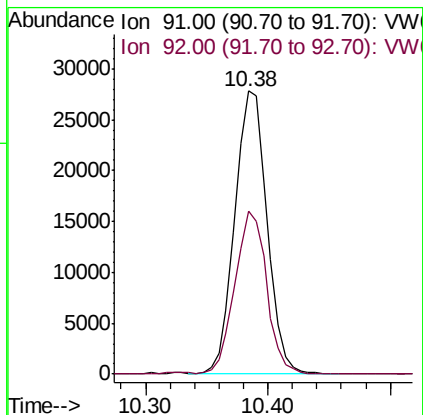
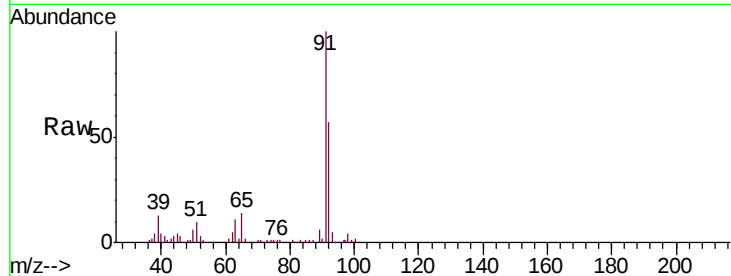
MDL03

Tgt Ion: 91 Resp: 50899

Ion Ratio Lower Upper

91 100

92 57.4 39.5 73.3



#44

trans-1,3-Dichloropropene

Concen: 1.036 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW014981.D

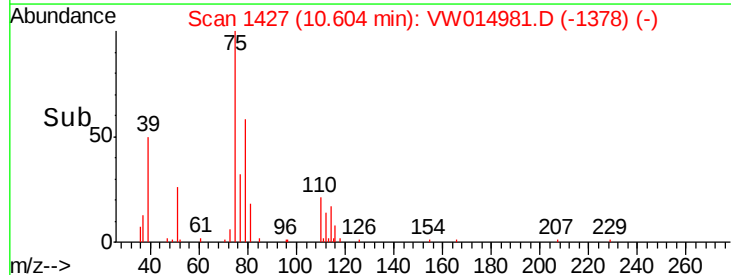
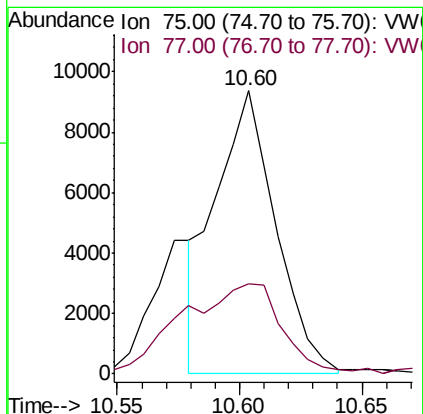
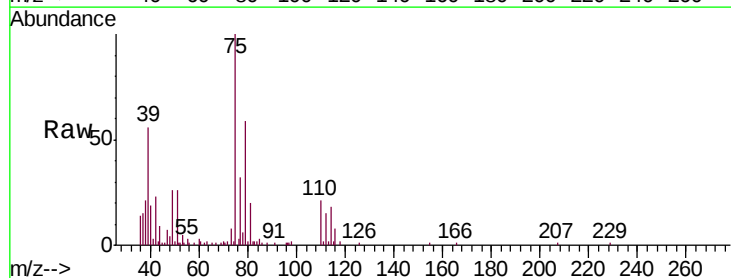
Acq: 13 Feb 2020 15:37

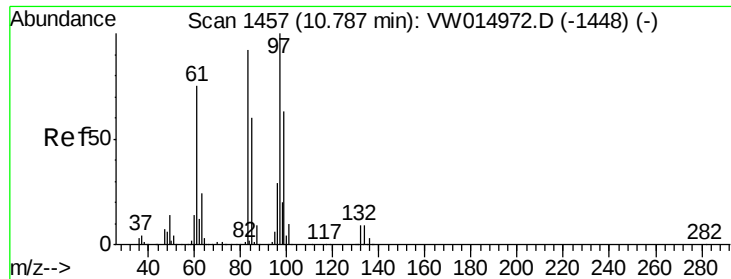
Tgt Ion: 75 Resp: 16017

Ion Ratio Lower Upper

75 100

77 32.0 22.7 42.1

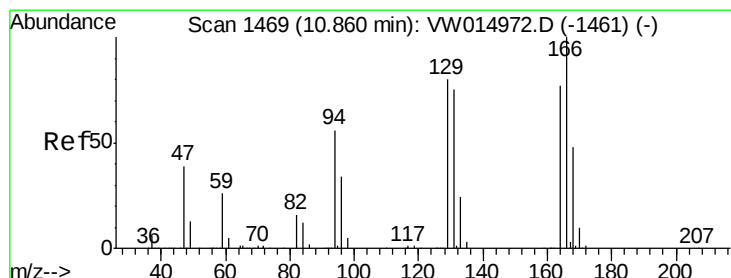
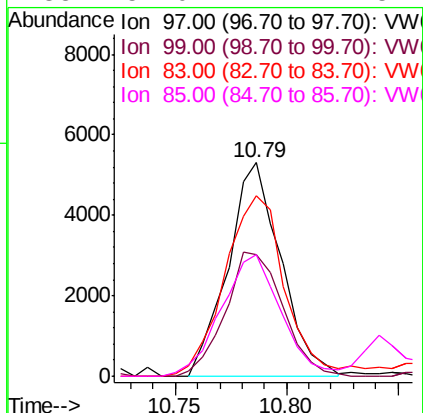
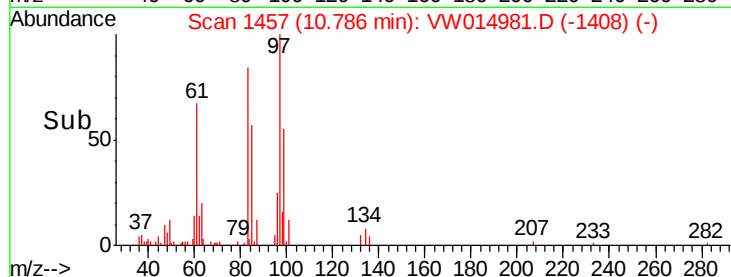
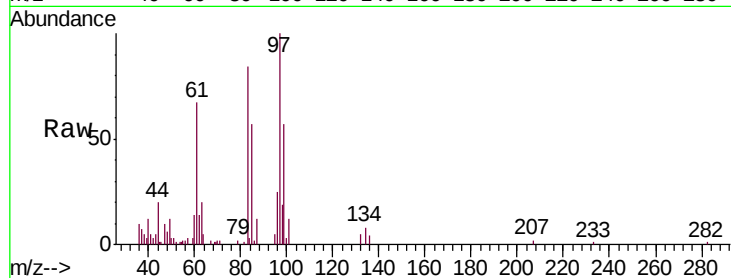




#45  
1,1,2-Trichloroethane  
Concen: 1.044 ug/L  
RT: 10.79 min Scan# 1457  
Delta R.T. -0.00 min  
Lab File: VW014981.D  
Acq: 13 Feb 2020 15:37

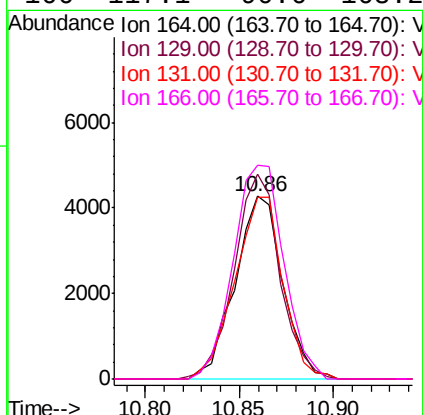
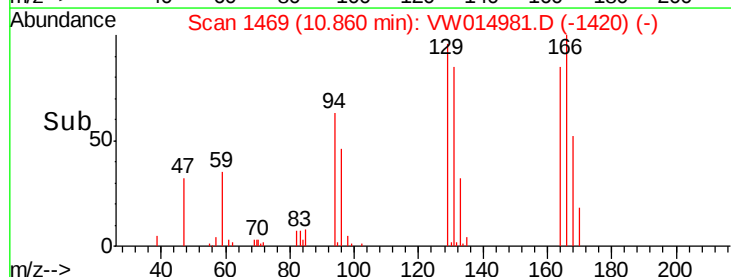
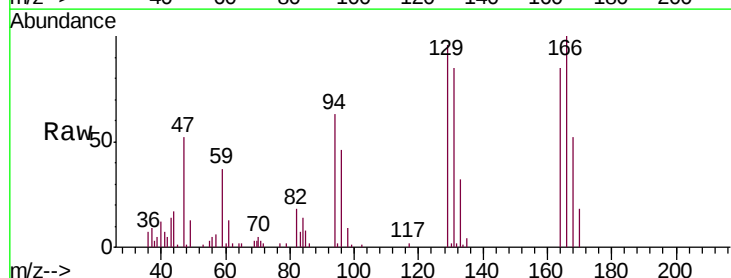
Instrument :  
MSVOA\_W  
ClientSampleId :  
MDL03

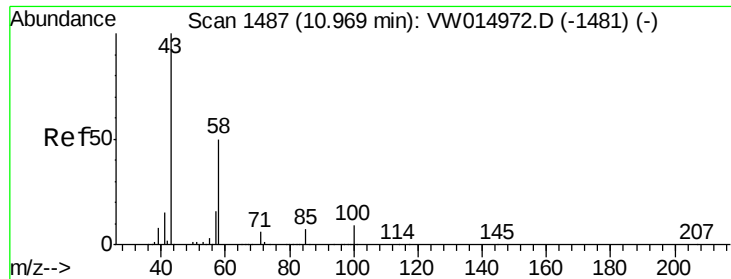
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 8818  |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 57.1  | 44.2  | 82.0  |
| 83       | 84.3  | 64.1  | 119.1 |
| 85       | 57.0  | 42.1  | 78.1  |



#46  
Tetrachloroethene  
Concen: 0.970 ug/L  
RT: 10.86 min Scan# 1469  
Delta R.T. -0.00 min  
Lab File: VW014981.D  
Acq: 13 Feb 2020 15:37

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 7520  |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 111.9 | 72.2  | 134.2 |
| 131      | 99.3  | 68.1  | 126.5 |
| 166      | 117.1 | 90.6  | 168.2 |

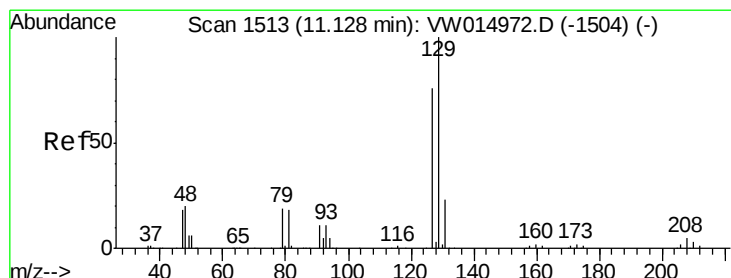
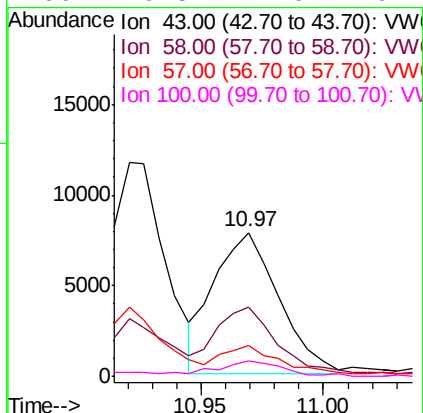
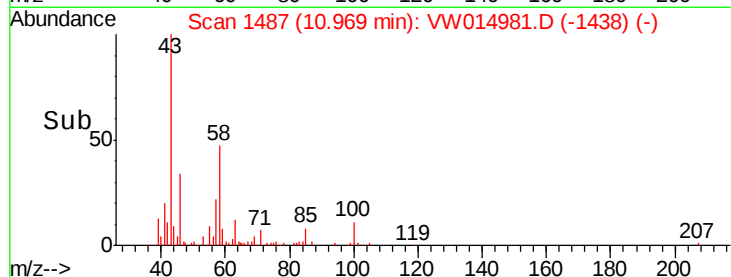
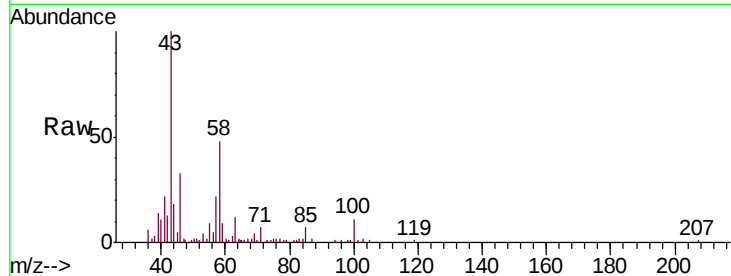




#48  
2-Hexanone  
Concen: 1.995 ug/L  
RT: 10.97 min Scan# 1487  
Delta R.T. -0.00 min  
Lab File: VW014981.D  
Acq: 13 Feb 2020 15:37

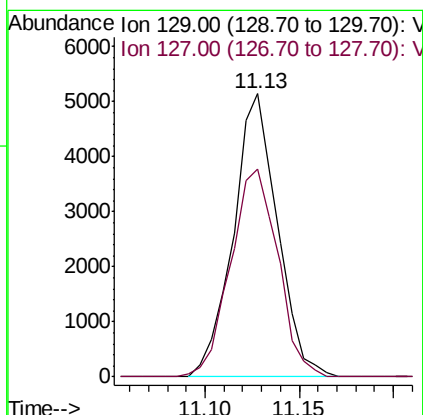
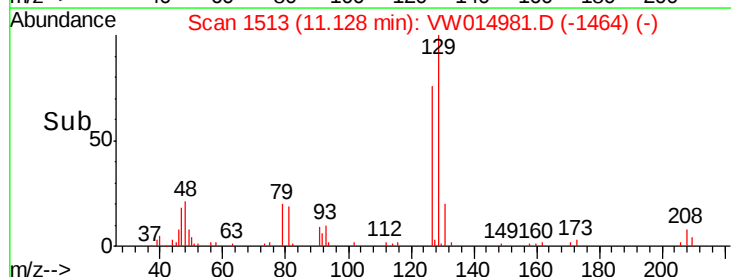
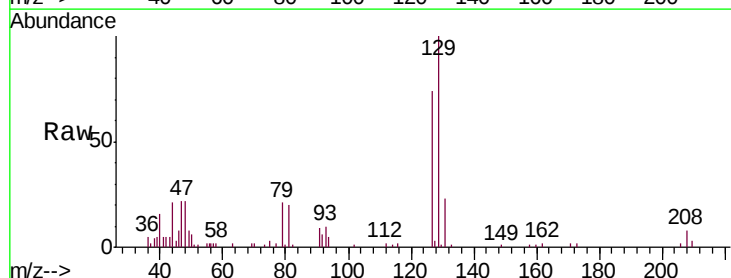
Instrument :  
MSVOA\_W  
ClientSampleId :  
MDL03

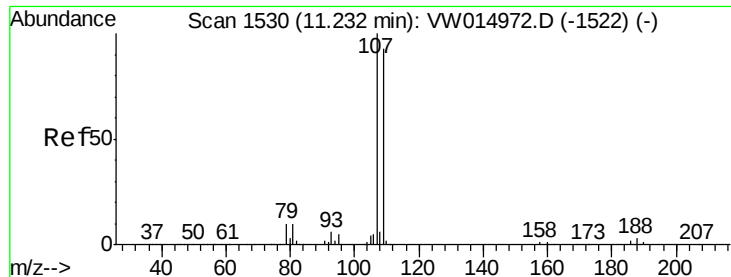
Tgt Ion: 43 Resp: 14407  
Ion Ratio Lower Upper  
43 100  
58 48.4 39.2 58.8  
57 19.5 13.1 19.7  
100 10.5 7.0 10.4#



#49  
Dibromochloromethane  
Concen: 0.950 ug/L  
RT: 11.13 min Scan# 1513  
Delta R.T. -0.00 min  
Lab File: VW014981.D  
Acq: 13 Feb 2020 15:37

Tgt Ion: 129 Resp: 8358  
Ion Ratio Lower Upper  
129 100  
127 76.2 53.0 98.4

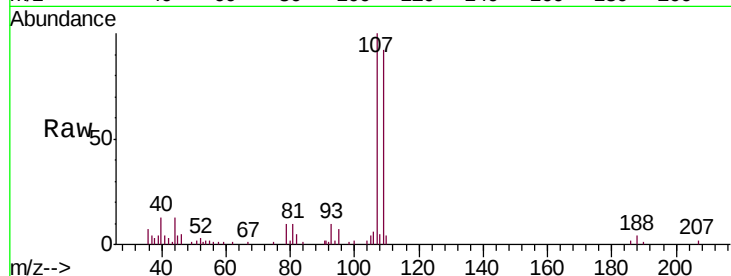




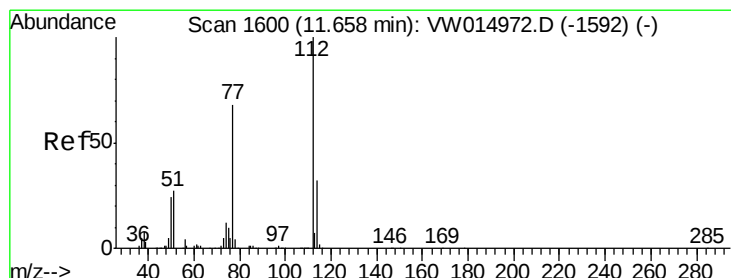
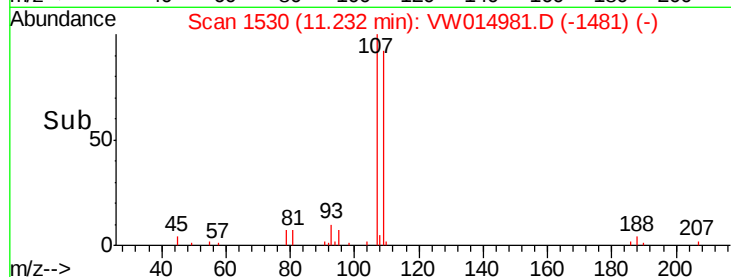
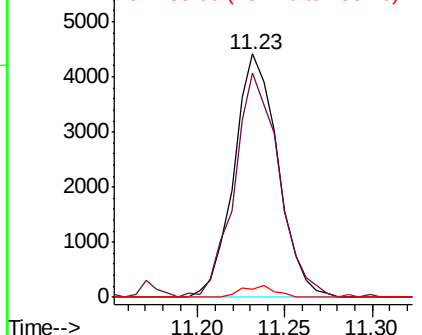
#50  
1,2-Dibromoethane  
Concen: 1.014 ug/L  
RT: 11.23 min Scan# 1530  
Delta R.T. -0.00 min  
Lab File: VW014981.D  
Acq: 13 Feb 2020 15:37

Instrument :  
MSVOA\_W  
ClientSampleId :  
MDL03

Tgt Ion:107 Resp: 7723  
Ion Ratio Lower Upper  
107 100  
109 91.9 65.1 120.9  
188 3.6 2.4 3.6

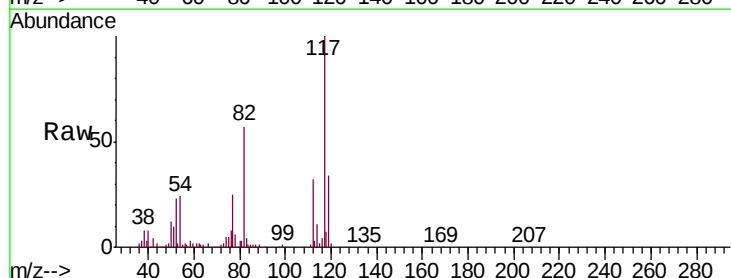


Abundance Ion 107.00 (106.70 to 107.70): V  
Ion 109.00 (108.70 to 109.70): V  
Ion 188.00 (187.70 to 188.70): V

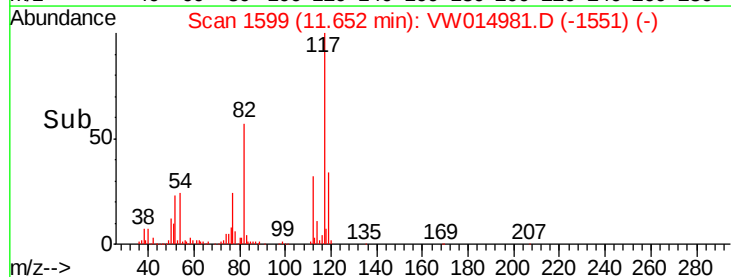
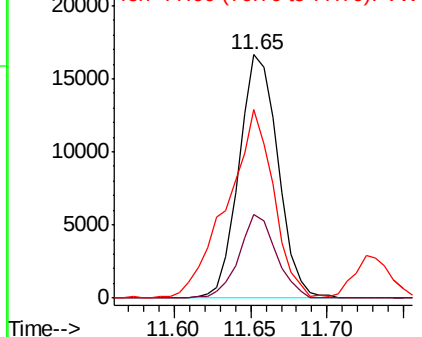


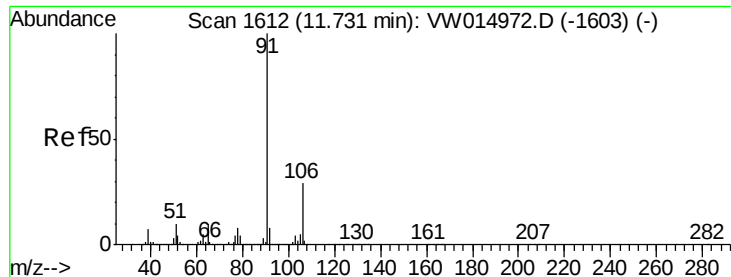
#51  
Chlorobenzene  
Concen: 1.037 ug/L  
RT: 11.65 min Scan# 1599  
Delta R.T. -0.01 min  
Lab File: VW014981.D  
Acq: 13 Feb 2020 15:37

Tgt Ion:112 Resp: 29476  
Ion Ratio Lower Upper  
112 100  
114 34.3 22.6 42.0  
77 77.4 54.6 82.0



Abundance Ion 112.00 (111.70 to 112.70): V  
Ion 114.00 (113.70 to 114.70): V  
Ion 77.00 (76.70 to 77.70): V





#52

Ethylbenzene

Concen: 0.885 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW014981.D

Acq: 13 Feb 2020 15:37

Instrument :

MSVOA\_W

ClientSampled :

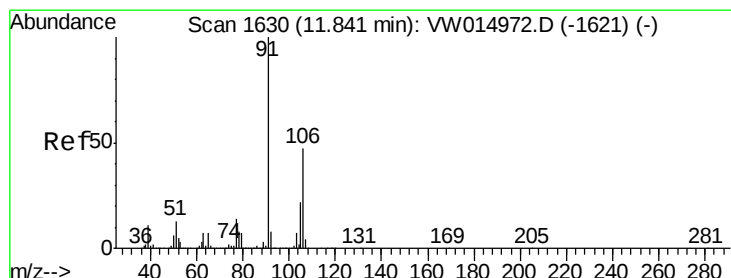
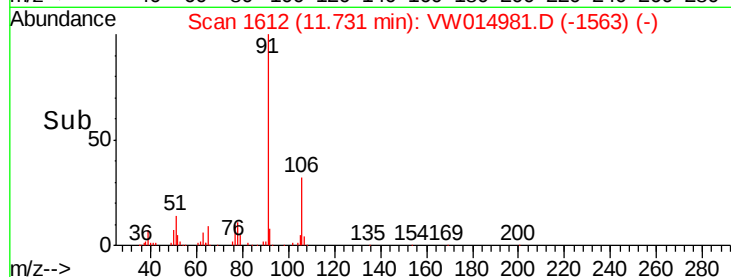
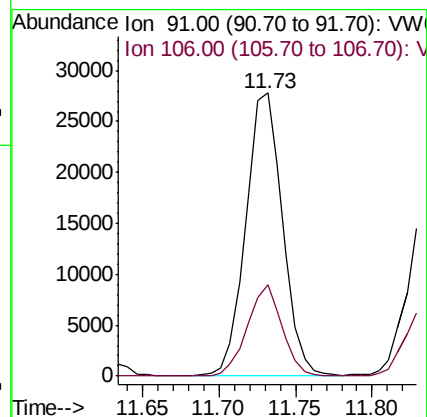
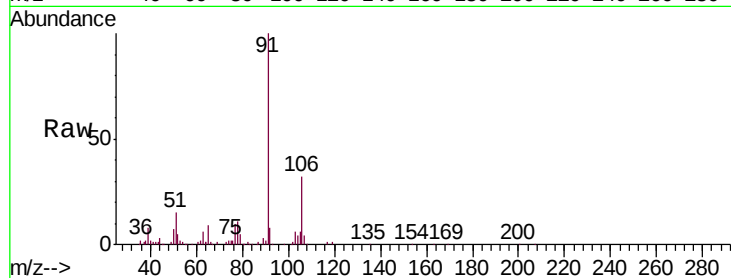
MDL03

Tgt Ion: 91 Resp: 46446

Ion Ratio Lower Upper

91 100

106 32.2 20.2 37.4



#53

m,p-Xylene

Concen: 0.822 ug/L

RT: 11.84 min Scan# 1629

Delta R.T. -0.01 min

Lab File: VW014981.D

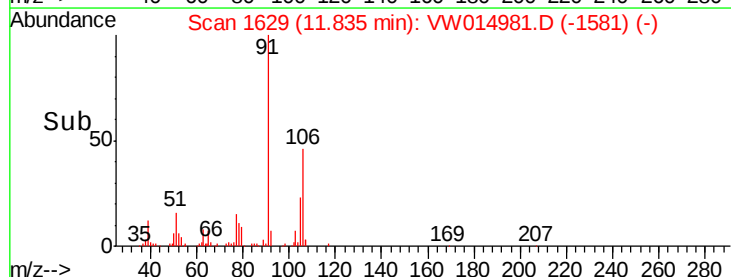
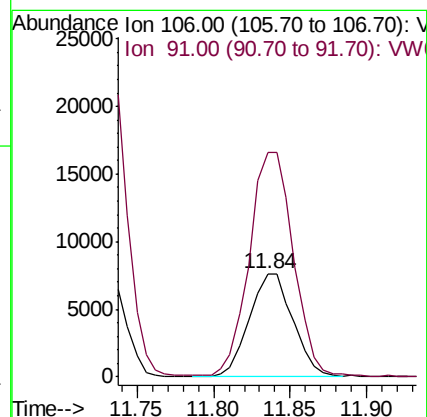
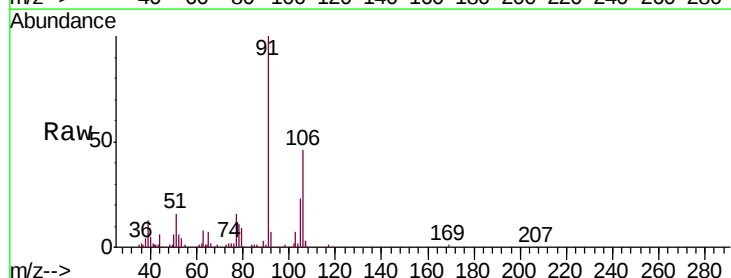
Acq: 13 Feb 2020 15:37

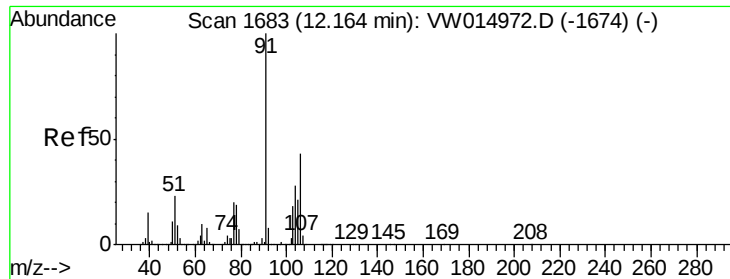
Tgt Ion: 106 Resp: 15141

Ion Ratio Lower Upper

106 100

91 217.5 149.2 277.2

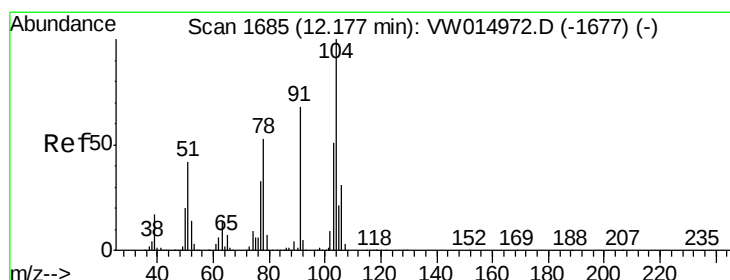
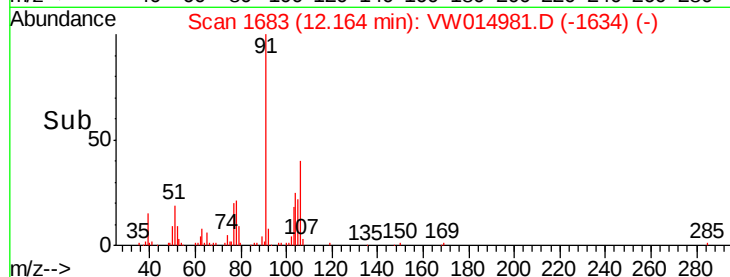
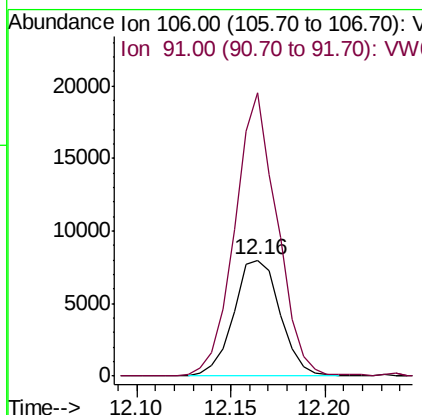
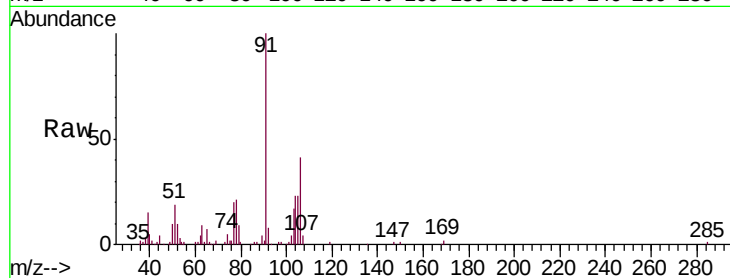




#54  
o-Xylene  
Concen: 0.788 ug/L  
RT: 12.16 min Scan# 1683  
Delta R.T. -0.00 min  
Lab File: VW014981.D  
Acq: 13 Feb 2020 15:37

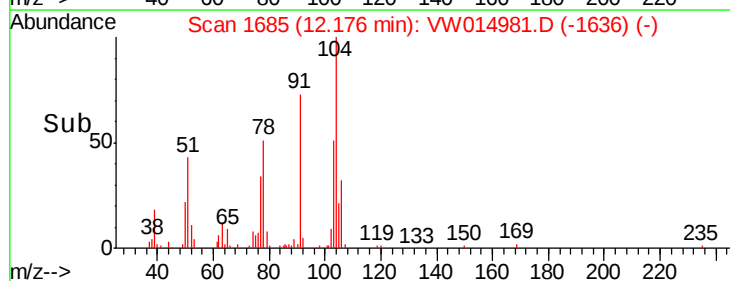
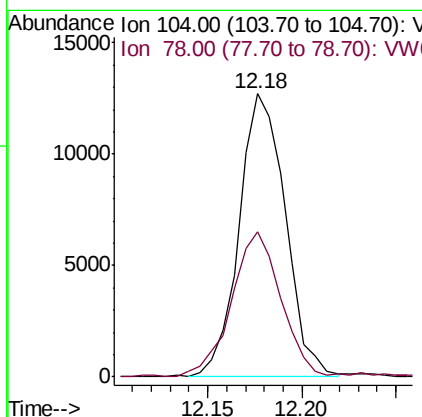
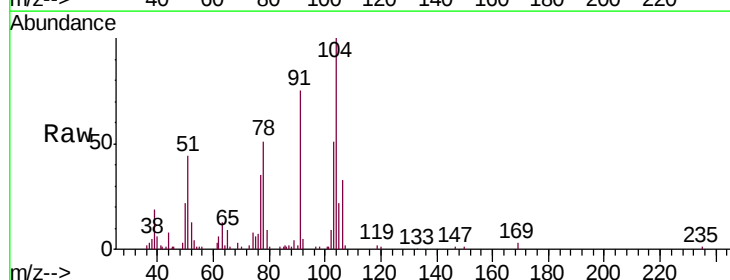
Instrument :  
MSVOA\_W  
ClientSampleId :  
MDL03

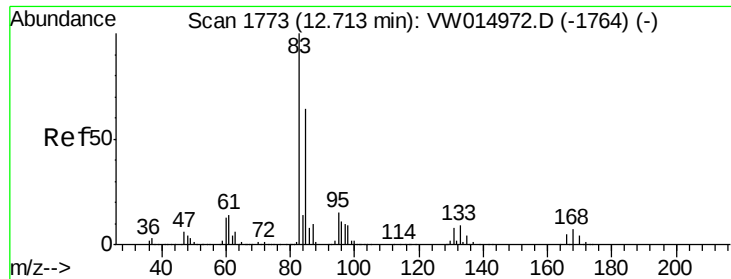
Tgt Ion:106 Resp: 13621  
Ion Ratio Lower Upper  
106 100  
91 244.7 163.7 304.1



#55  
Styrene  
Concen: 0.725 ug/L  
RT: 12.18 min Scan# 1685  
Delta R.T. -0.00 min  
Lab File: VW014981.D  
Acq: 13 Feb 2020 15:37

Tgt Ion:104 Resp: 21599  
Ion Ratio Lower Upper  
104 100  
78 51.3 36.8 68.4





#57

1,1,2,2-Tetrachloroethane

Concen: 1.151 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW014981.D

Acq: 13 Feb 2020 15:37

Instrument :

MSVOA\_W

ClientSampled :

MDL03

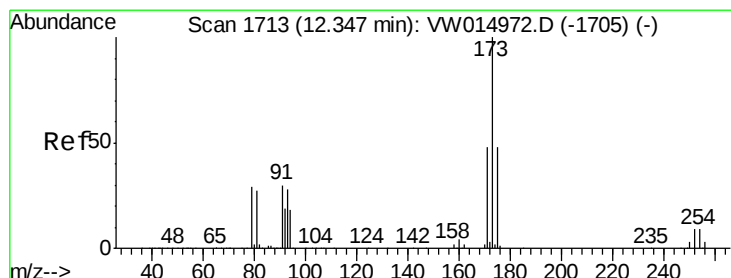
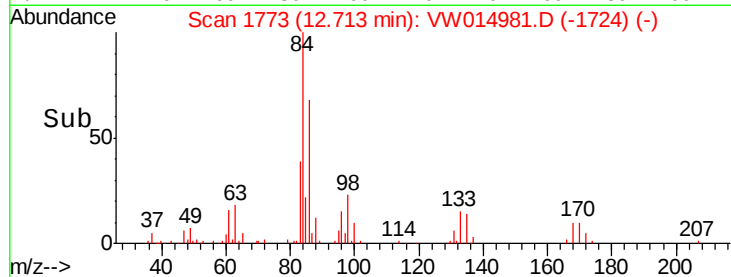
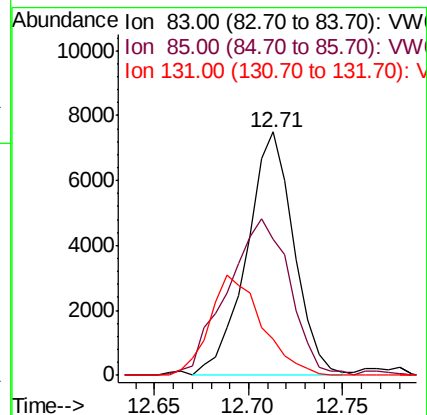
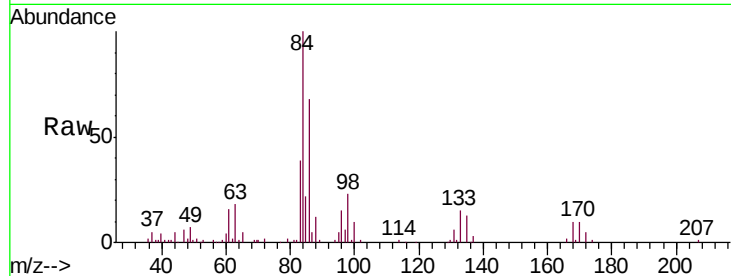
Tgt Ion: 83 Resp: 13009

Ion Ratio Lower Upper

83 100

85 56.1 44.9 83.5

131 14.7 6.2 9.2#



#59

Bromoform

Concen: 0.993 ug/L

RT: 12.35 min Scan# 1714

Delta R.T. 0.01 min

Lab File: VW014981.D

Acq: 13 Feb 2020 15:37

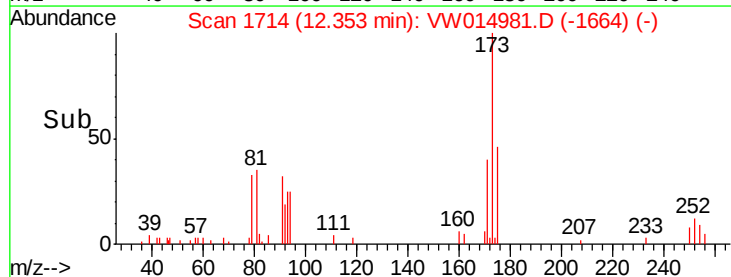
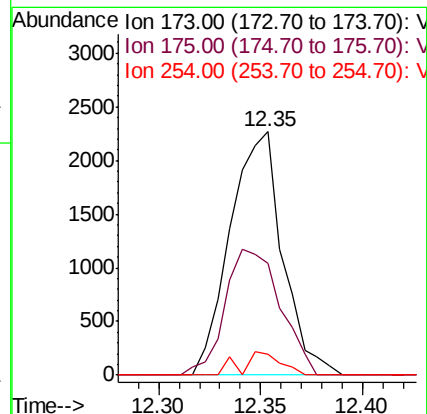
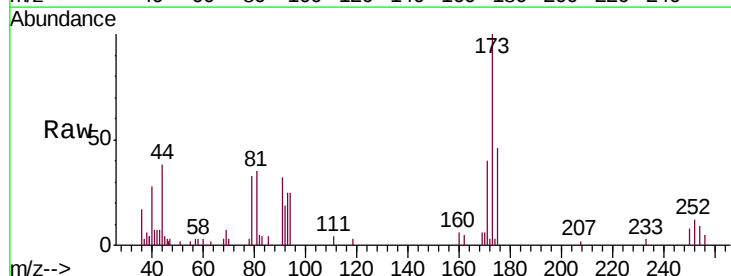
Tgt Ion: 173 Resp: 4053

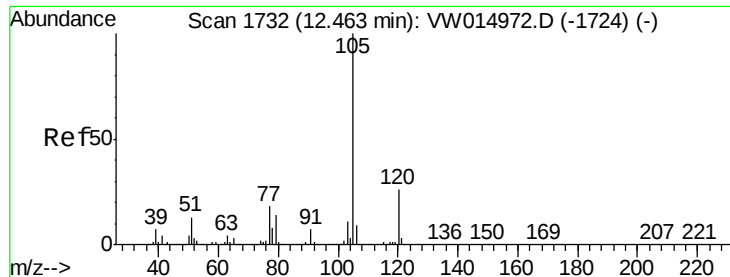
Ion Ratio Lower Upper

173 100

175 0.0 39.0 58.4#

254 5.4 7.1 10.7#





#60

Isopropylbenzene

Concen: 0.811 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW014981.D

Acq: 13 Feb 2020 15:37

Instrument :

MSVOA\_W

ClientSampled :

MDL03

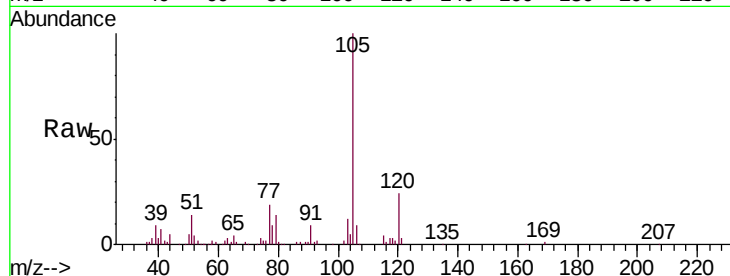
Tgt Ion: 105 Resp: 33874

Ion Ratio Lower Upper

105 100

120 25.4 20.1 30.1

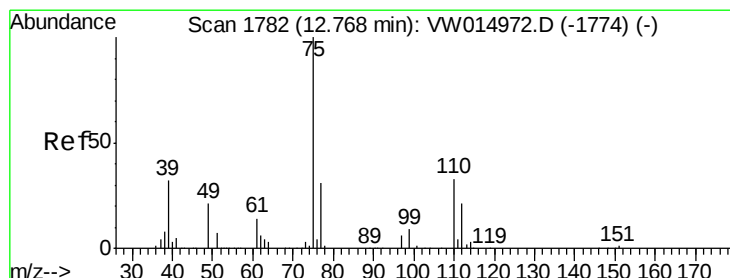
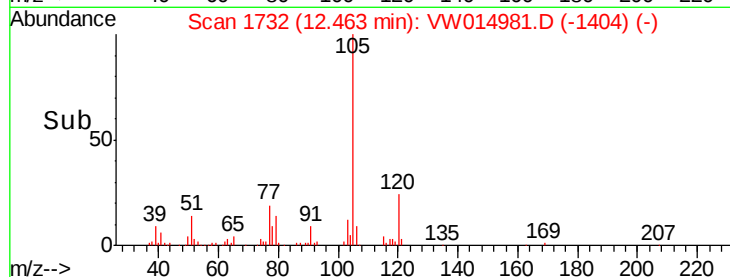
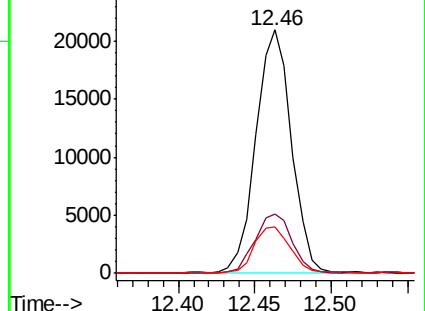
77 19.6 14.4 21.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#61

1,2,3-Trichloropropane

Concen: 1.132 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. -0.00 min

Lab File: VW014981.D

Acq: 13 Feb 2020 15:37

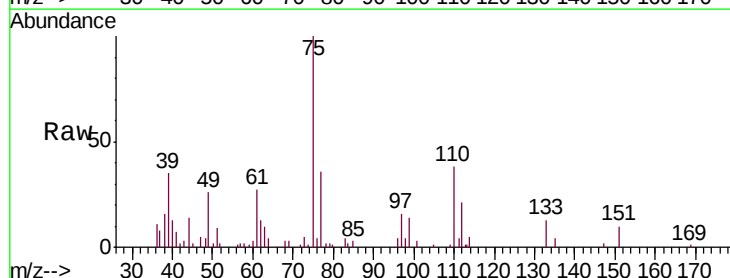
Tgt Ion: 75 Resp: 8856

Ion Ratio Lower Upper

75 100

77 36.6 25.8 38.6

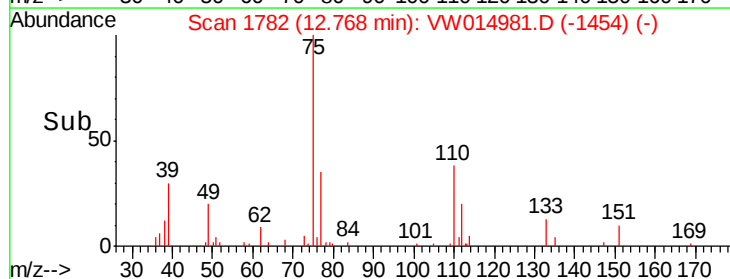
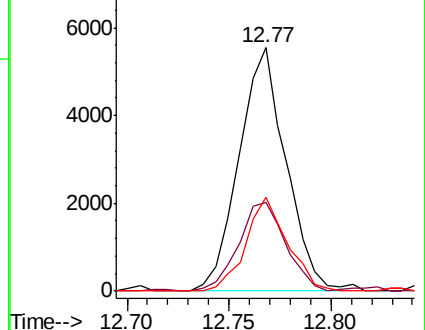
110 34.1 26.6 39.8

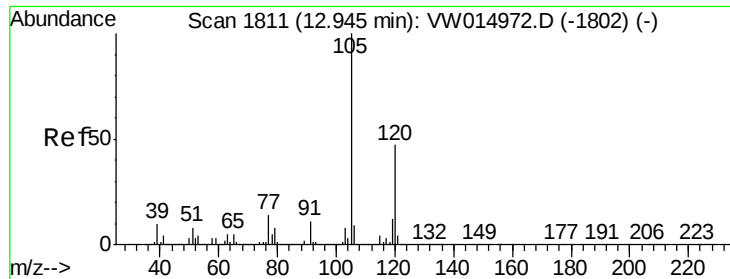


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 77.00 (76.70 to 77.70): V

Ion 110.00 (109.70 to 110.70): V

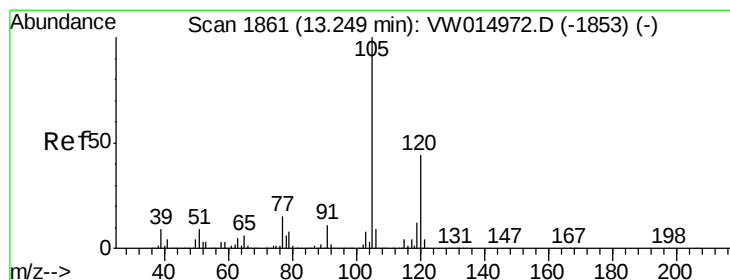
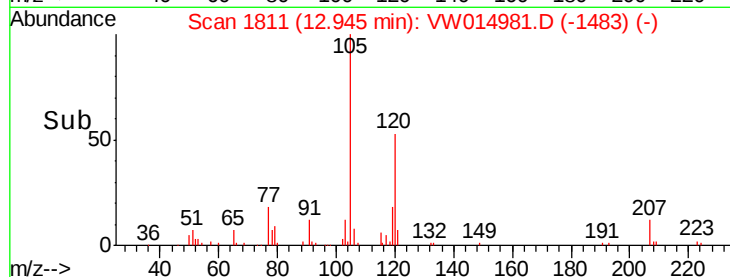
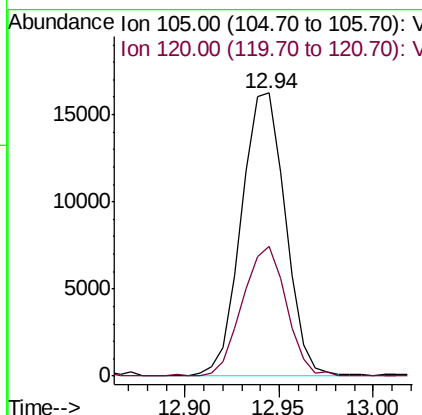
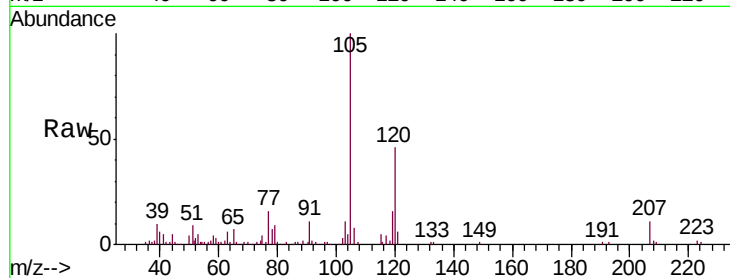




#62  
 1,3,5-Trimethylbenzene  
 Concen: 0.793 ug/L  
 RT: 12.94 min Scan# 1811  
 Delta R.T. -0.00 min  
 Lab File: VW014981.D  
 Acq: 13 Feb 2020 15:37

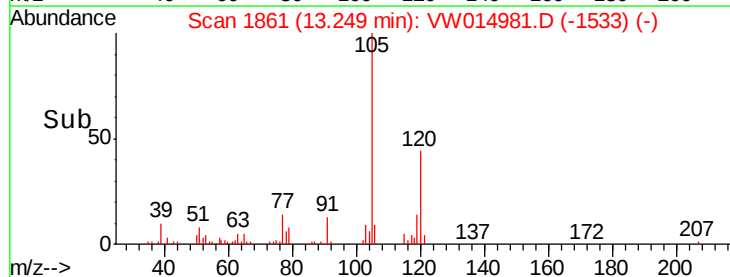
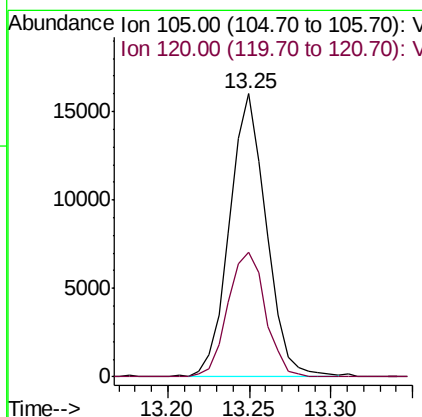
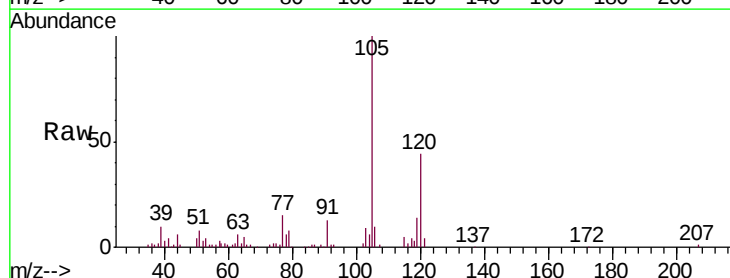
Instrument :  
 MSVOA\_W  
 ClientSampled :  
 MDL03

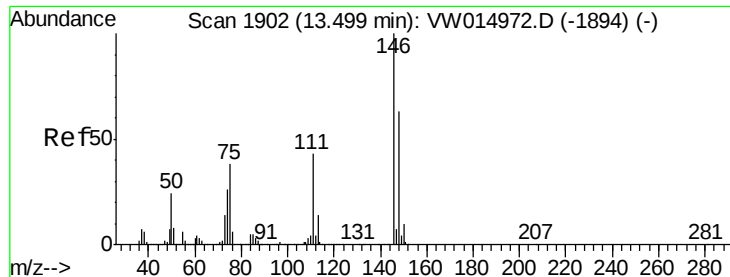
Tgt Ion:105 Resp: 26407  
 Ion Ratio Lower Upper  
 105 100  
 120 45.5 37.4 56.0



#63  
 1,2,4-Trimethylbenzene  
 Concen: 0.772 ug/L  
 RT: 13.25 min Scan# 1861  
 Delta R.T. -0.00 min  
 Lab File: VW014981.D  
 Acq: 13 Feb 2020 15:37

Tgt Ion:105 Resp: 25154  
 Ion Ratio Lower Upper  
 105 100  
 120 44.9 35.0 52.4

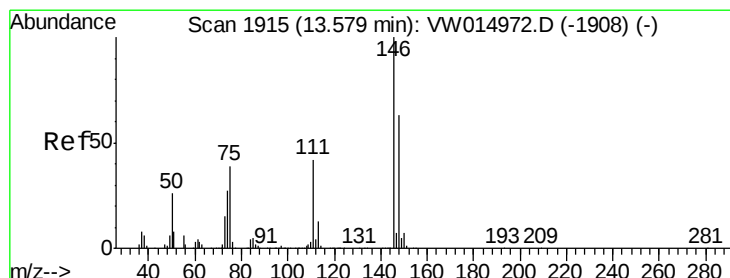
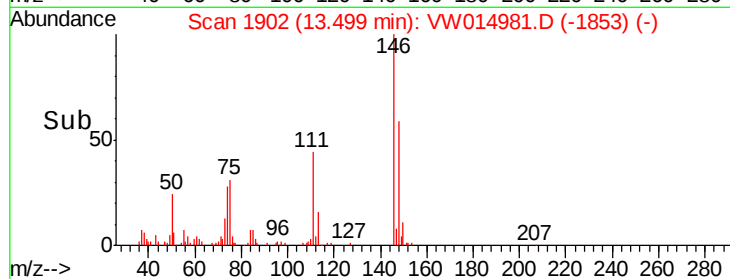
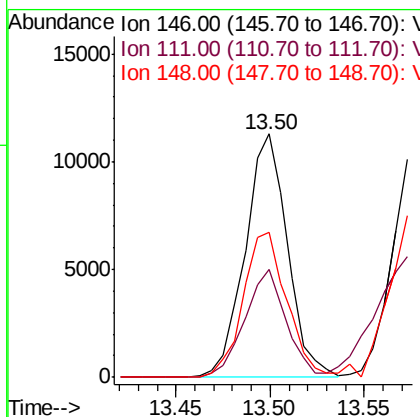
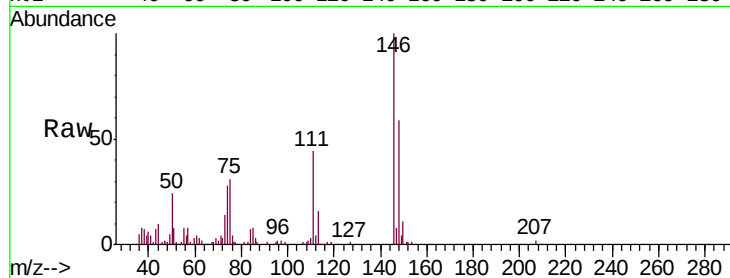




#64  
 1,3-Dichlorobenzene  
 Concen: 1.020 ug/L  
 RT: 13.50 min Scan# 1902  
 Delta R.T. -0.00 min  
 Lab File: VW014981.D  
 Acq: 13 Feb 2020 15:37

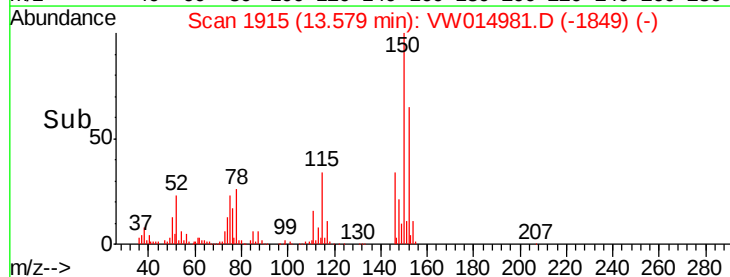
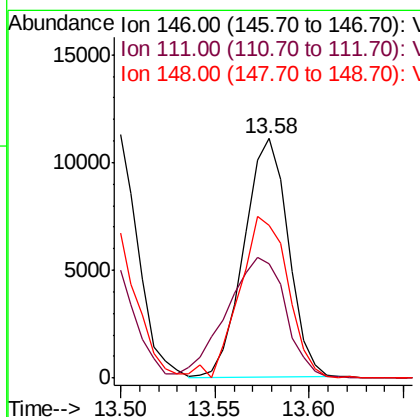
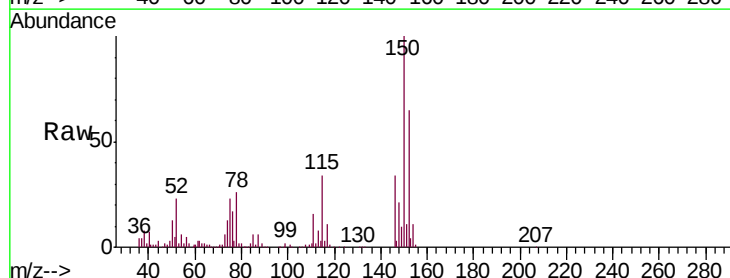
Instrument :  
 MSVOA\_W  
 ClientSampled :  
 MDL03

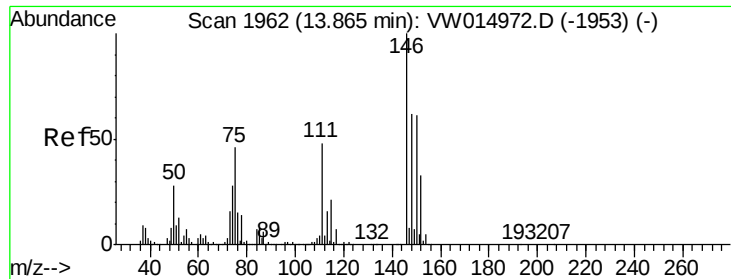
Tgt Ion:146 Resp: 17575  
 Ion Ratio Lower Upper  
 146 100  
 111 44.1 30.2 56.0  
 148 59.3 44.2 82.2



#65  
 1,4-Dichlorobenzene  
 Concen: 1.013 ug/L  
 RT: 13.58 min Scan# 1915  
 Delta R.T. -0.00 min  
 Lab File: VW014981.D  
 Acq: 13 Feb 2020 15:37

Tgt Ion:146 Resp: 17981  
 Ion Ratio Lower Upper  
 146 100  
 111 47.8 29.5 54.9  
 148 63.5 43.8 81.3

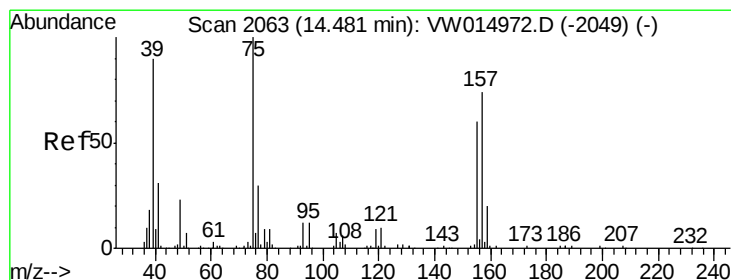
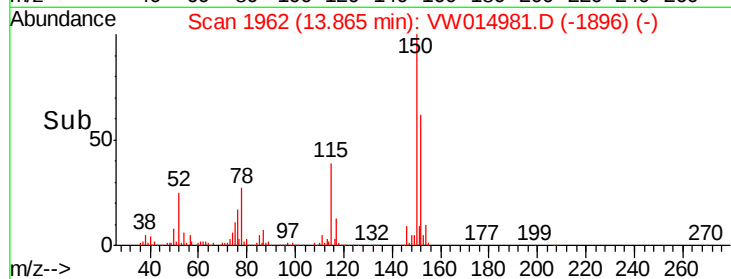
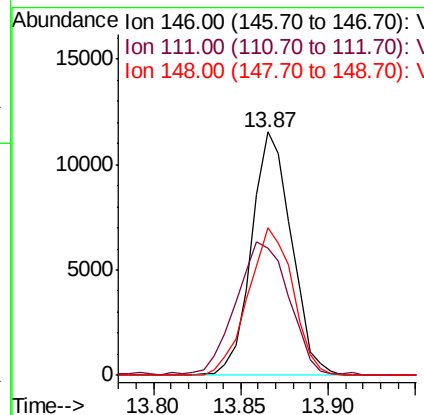
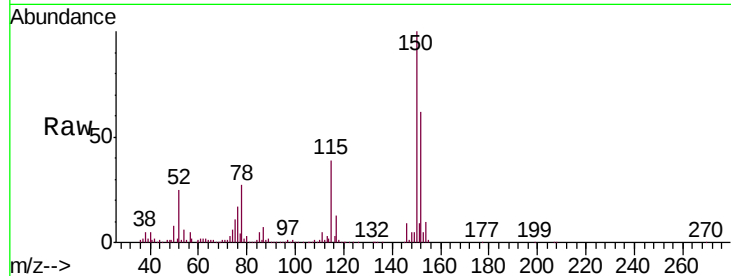




#67  
 1,2-Dichlorobenzene  
 Concen: 1.149 ug/L  
 RT: 13.87 min Scan# 1962  
 Delta R.T. -0.00 min  
 Lab File: VW014981.D  
 Acq: 13 Feb 2020 15:37

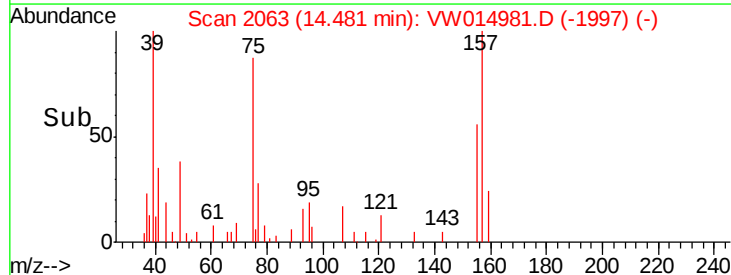
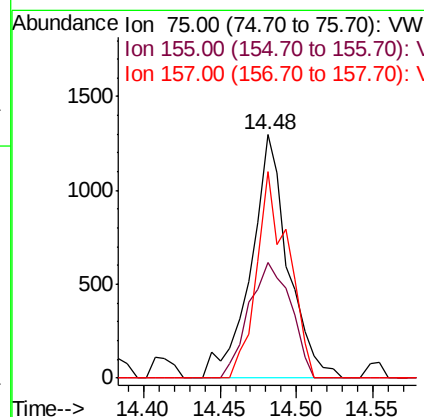
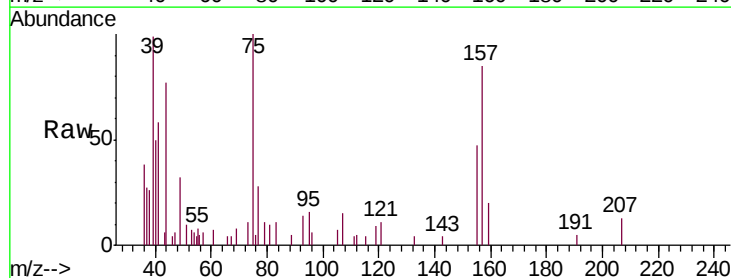
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 MDL03

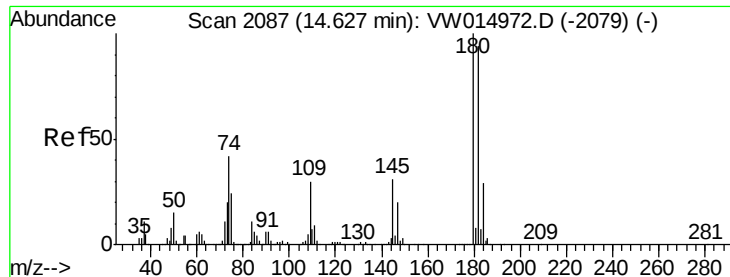
Tgt Ion:146 Resp: 18320  
 Ion Ratio Lower Upper  
 146 100  
 111 52.4 38.0 57.0  
 148 60.8 49.5 74.3



#68  
 1,2-Dibromo-3-chloropropane  
 Concen: 1.336 ug/L  
 RT: 14.48 min Scan# 2063  
 Delta R.T. -0.00 min  
 Lab File: VW014981.D  
 Acq: 13 Feb 2020 15:37

Tgt Ion: 75 Resp: 2186  
 Ion Ratio Lower Upper  
 75 100  
 155 47.5 48.0 72.0#  
 157 85.0 59.4 89.0

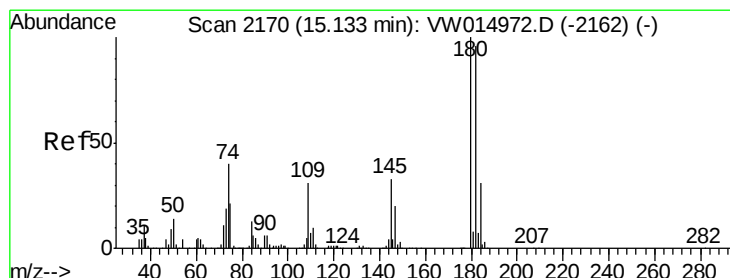
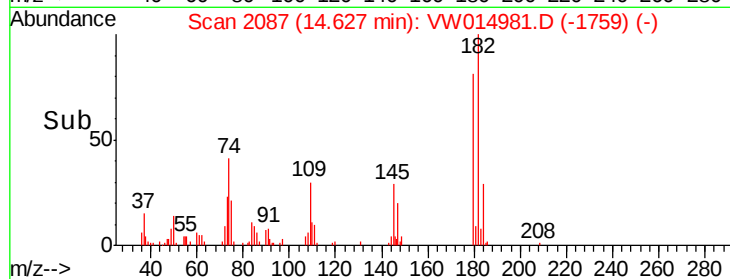
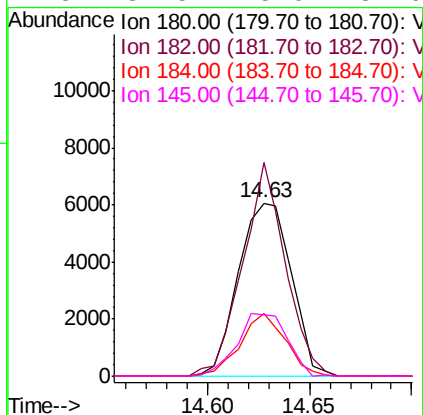
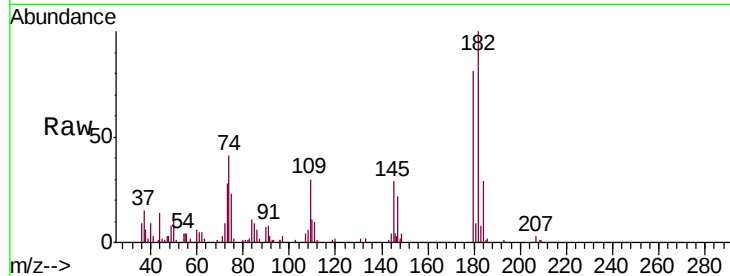




#69  
 1,3,5-Trichlorobenzene  
 Concen: 0.948 ug/L  
 RT: 14.63 min Scan# 2087  
 Delta R.T. -0.00 min  
 Lab File: VW014981.D  
 Acq: 13 Feb 2020 15:37

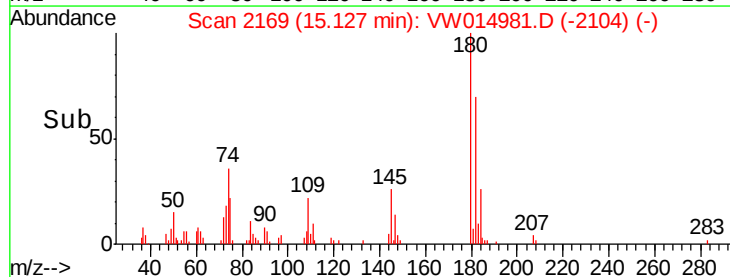
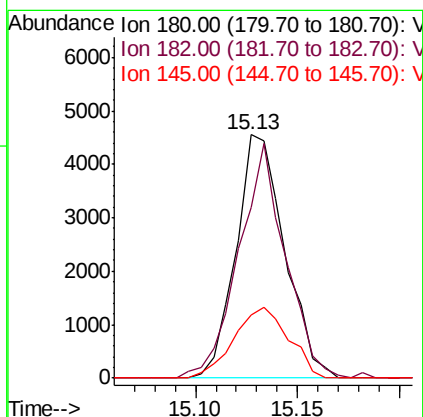
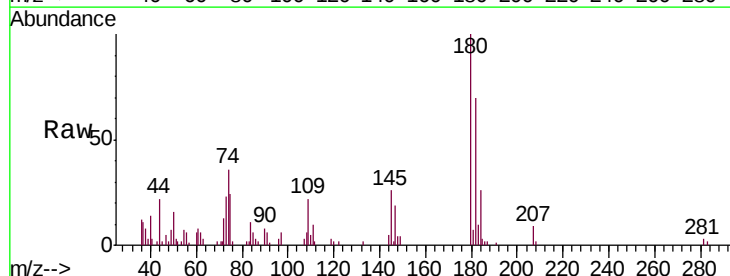
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 MDL03

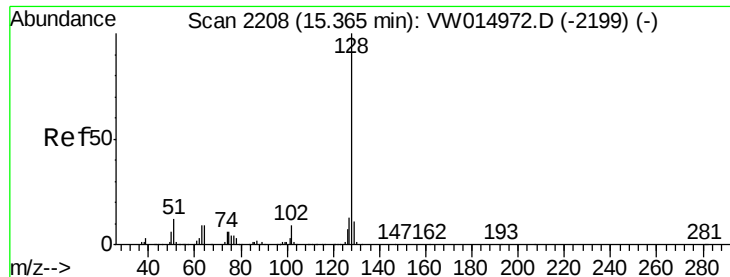
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 10942 |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 99.8  | 76.5  | 114.7 |
| 184      | 31.1  | 24.2  | 36.2  |
| 145      | 34.5  | 25.0  | 37.6  |



#70  
 1,2,4-trichlorobenzene  
 Concen: 0.873 ug/L  
 RT: 15.13 min Scan# 2169  
 Delta R.T. -0.01 min  
 Lab File: VW014981.D  
 Acq: 13 Feb 2020 15:37

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 7556  |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 92.6  | 76.2  | 114.4 |
| 145      | 32.6  | 26.2  | 39.4  |

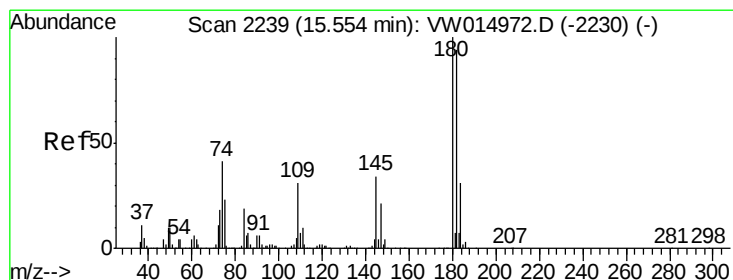
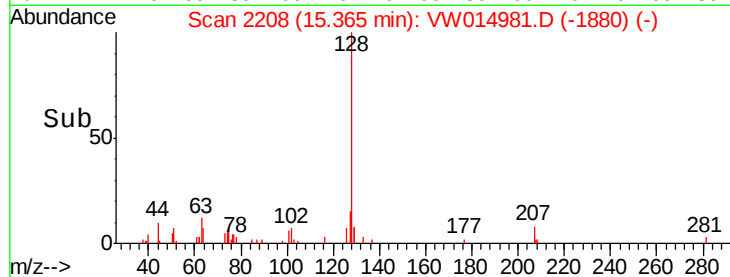
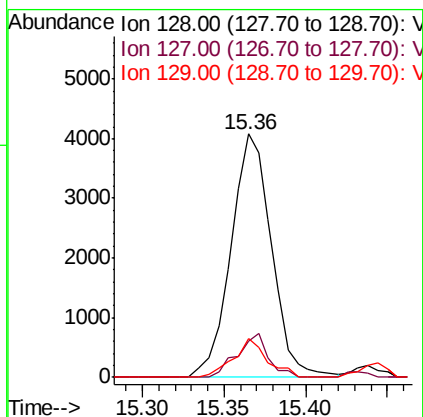
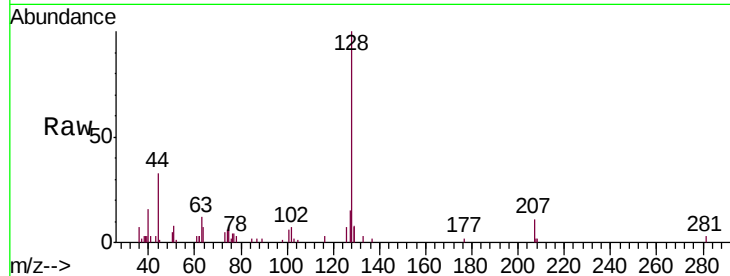




#71  
Naphthalene  
Concen: 0.795 ug/L  
RT: 15.36 min Scan# 2208  
Delta R.T. -0.00 min  
Lab File: VW014981.D  
Acq: 13 Feb 2020 15:37

Instrument :  
MSVOA\_W  
ClientSampled :  
MDL03

Tgt Ion:128 Resp: 7065  
Ion Ratio Lower Upper  
128 100  
127 14.0 10.5 15.7  
129 13.1 8.6 12.8#



#72  
1,2,3-Trichlorobenzene  
Concen: 0.912 ug/L  
RT: 15.56 min Scan# 2240  
Delta R.T. 0.01 min  
Lab File: VW014981.D  
Acq: 13 Feb 2020 15:37

Tgt Ion:180 Resp: 7311  
Ion Ratio Lower Upper  
180 100  
182 89.7 75.2 112.8  
145 34.2 27.0 40.6

