

Data File : VW009659.D  
Acq On : 03 Apr 2019 11:01  
Operator : SY/VA  
Sample : VSTD2.510  
Misc : 5.00G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD2.510

Quant Time: Apr 03 14:34:01 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM040319S.M  
Quant Title : VOC Analysis  
QLast Update : Wed Apr 03 14:24:12 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 532664   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 492128   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 232866   | 25.00 | ug/L  | 0.00     |

System Monitoring Compounds

|                                |       |     |       |      |      |       |
|--------------------------------|-------|-----|-------|------|------|-------|
| 4) Vinyl Chloride-d3           | 2.36  | 65  | 18451 | 2.90 | ug/L | -0.01 |
| 7) Chloroethane-d5             | 2.89  | 69  | 15833 | 2.13 | ug/L | 0.00  |
| 10) 1,1-Dichloroethene-d2      | 4.01  | 63  | 38615 | 2.81 | ug/L | 0.00  |
| 20) 2-Butanone-d5              | 7.08  | 46  | 8697  | 3.30 | ug/L | 0.00  |
| 24) Chloroform-d               | 7.64  | 84  | 35780 | 2.46 | ug/L | 0.00  |
| 26) 1,2-Dichloroethane-d4      | 8.30  | 65  | 21477 | 2.45 | ug/L | 0.00  |
| 29) Benzene-d6                 | 8.27  | 84  | 64274 | 2.37 | ug/L | 0.00  |
| 33) 1,2-Dichloropropane-d6     | 9.27  | 67  | 20396 | 2.50 | ug/L | 0.00  |
| 37) Toluene-d8                 | 10.32 | 98  | 56266 | 2.24 | ug/L | 0.00  |
| 38) trans-1,3-Dichloropropene- | 10.58 | 79  | 8799  | 2.15 | ug/L | 0.00  |
| 39) 2-Hexanone-d5              | 10.93 | 63  | 4576  | 2.32 | ug/L | 0.00  |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69 | 84  | 16466 | 2.05 | ug/L | 0.00  |
| 61) 1,2-Dichlorobenzene-d4     | 13.85 | 152 | 20521 | 2.30 | ug/L | 0.00  |

Target Compounds

|                                |       |     |       |              | Qvalue |
|--------------------------------|-------|-----|-------|--------------|--------|
| 2) Dichlorodifluoromethane     | 2.01  | 85  | 15646 | 2.230 ug/L   | 94     |
| 3) Chloromethane               | 2.21  | 50  | 17531 | 2.355 ug/L   | 96     |
| 5) Vinyl chloride              | 2.36  | 62  | 23372 | 3.050 ug/L   | 98     |
| 6) Bromomethane                | 2.78  | 94  | 16196 | 2.523 ug/L   | 97     |
| 8) Chloroethane                | 2.93  | 64  | 14834 | 2.340 ug/L   | 92     |
| 9) Trichlorofluoromethane      | 3.25  | 101 | 12339 | 2.039 ug/L   | 95     |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.05  | 101 | 7302  | 1.045 ug/L # | 50     |
| 12) 1,1-Dichloroethene         | 4.03  | 96  | 17379 | 2.650 ug/L   | 82     |
| 13) Acetone                    | 4.10  | 43  | 4999  | 2.316 ug/L   | 79     |
| 14) Carbon disulfide           | 4.37  | 76  | 54621 | 3.094 ug/L   | 99     |
| 15) Methyl Acetate             | 4.67  | 43  | 10100 | 2.382 ug/L   | 98     |
| 16) Methylene chloride         | 4.91  | 84  | 31178 | 4.014 ug/L   | 95     |
| 17) Methyl tert-butyl Ether    | 5.43  | 73  | 19564 | 2.108 ug/L   | 96     |
| 18) trans-1,2-Dichloroethene   | 5.42  | 96  | 17540 | 2.543 ug/L   | 100    |
| 19) 1,1-Dichloroethane         | 6.21  | 63  | 33658 | 2.677 ug/L   | 98     |
| 22) cis-1,2-Dichloroethene     | 7.15  | 96  | 8625  | 1.155 ug/L   | 96     |
| 23) Bromochloromethane         | 7.51  | 128 | 8030  | 2.241 ug/L   | 93     |
| 25) Chloroform                 | 7.67  | 83  | 36059 | 2.738 ug/L   | 98     |
| 27) 1,2-Dichloroethane         | 8.40  | 62  | 26118 | 2.660 ug/L   | 99     |
| 30) Cyclohexane                | 7.95  | 56  | 24522 | 2.194 ug/L   | 98     |
| 31) 1,1,1-Trichloroethane      | 7.87  | 97  | 28847 | 2.935 ug/L   | 99     |
| 32) Carbon tetrachloride       | 8.06  | 117 | 28535 | 2.877 ug/L   | 100    |
| 34) Benzene                    | 8.32  | 78  | 72770 | 2.702 ug/L   | 100    |
| 35) Trichloroethene            | 9.09  | 95  | 19371 | 2.699 ug/L   | 98     |
| 36) Methylcyclohexane          | 9.33  | 83  | 28537 | 2.298 ug/L   | 97     |
| 40) 1,2-Dichloropropane        | 9.37  | 63  | 18179 | 2.630 ug/L # | 96     |
| 41) Bromodichloromethane       | 9.64  | 83  | 24715 | 2.581 ug/L   | 99     |
| 42) cis-1,3-Dichloropropene    | 10.07 | 75  | 25103 | 2.230 ug/L   | 96     |
| 43) 4-Methyl-2-pentanone       | 10.21 | 43  | 22111 | 3.530 ug/L   | 95     |
| 44) Toluene                    | 10.38 | 91  | 71456 | 2.426 ug/L   | 96     |

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ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD2.510

Quant Time: Apr 03 14:34:01 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM040319S.M  
Quant Title : VOC Analysis  
QLast Update : Wed Apr 03 14:24:12 2019  
Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 45) trans-1,3-Dichloropropene  | 10.60 | 75   | 20280    | 2.071 | ug/L   | 90       |
| 46) 1,1,2-Trichloroethane      | 10.79 | 97   | 12945    | 2.347 | ug/L   | 94       |
| 47) Tetrachloroethene          | 10.86 | 164  | 14848    | 2.448 | ug/L   | 92       |
| 49) 2-Hexanone                 | 10.97 | 43   | 16005    | 3.628 | ug/L   | 97       |
| 50) Dibromochloromethane       | 11.13 | 129  | 15127    | 2.222 | ug/L   | 98       |
| 51) 1,2-Dibromoethane          | 11.24 | 107  | 12632    | 2.260 | ug/L # | 98       |
| 52) Chlorobenzene              | 11.66 | 112  | 49191    | 2.604 | ug/L   | 97       |
| 53) Ethylbenzene               | 11.73 | 91   | 79397    | 2.398 | ug/L   | 99       |
| 54) m,p-Xylene                 | 11.84 | 106  | 28766    | 2.287 | ug/L   | 94       |
| 55) o-xylene                   | 12.16 | 106  | 25474    | 2.076 | ug/L   | 93       |
| 56) Styrene                    | 12.18 | 104  | 42936    | 2.051 | ug/L   | 97       |
| 57) Isopropylbenzene           | 12.46 | 105  | 69659    | 2.119 | ug/L   | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 16756    | 2.252 | ug/L # | 97       |
| 59) 1,2,3-Trichloropropane     | 12.77 | 75   | 12230    | 2.215 | ug/L   | 98       |
| 62) Bromoform                  | 12.35 | 173  | 9075     | 2.306 | ug/L   | 96       |
| 63) 1,3-Dichlorobenzene        | 13.50 | 146  | 33640    | 2.424 | ug/L   | 96       |
| 64) 1,4-Dichlorobenzene        | 13.58 | 146  | 38747    | 2.700 | ug/L   | 96       |
| 65) 1,2-Dichlorobenzene        | 13.87 | 146  | 32388    | 2.447 | ug/L   | 92       |
| 66) 1,2-Dibromo-3-chloropropan | 14.48 | 75   | 3227     | 2.488 | ug/L # | 65       |
| 67) 1,3,5-Trichlorobenzene     | 14.63 | 180  | 25716    | 2.376 | ug/L   | 99       |
| 68) 1,2,4-trichlorobenzene     | 15.14 | 180  | 18638    | 2.050 | ug/L   | 96       |
| 69) Naphthalene                | 15.37 | 128  | 28865    | 1.531 | ug/L   | 99       |
| 70) 1,2,3-Trichlorobenzene     | 15.56 | 180  | 16771    | 1.969 | ug/L   | 92       |

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

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Misc : 5.00G/10ML/MSVOA W/SOIL

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

**Instrument :**  
MSVOA\_W  
**ClientSampleId :**  
VSTD2.510

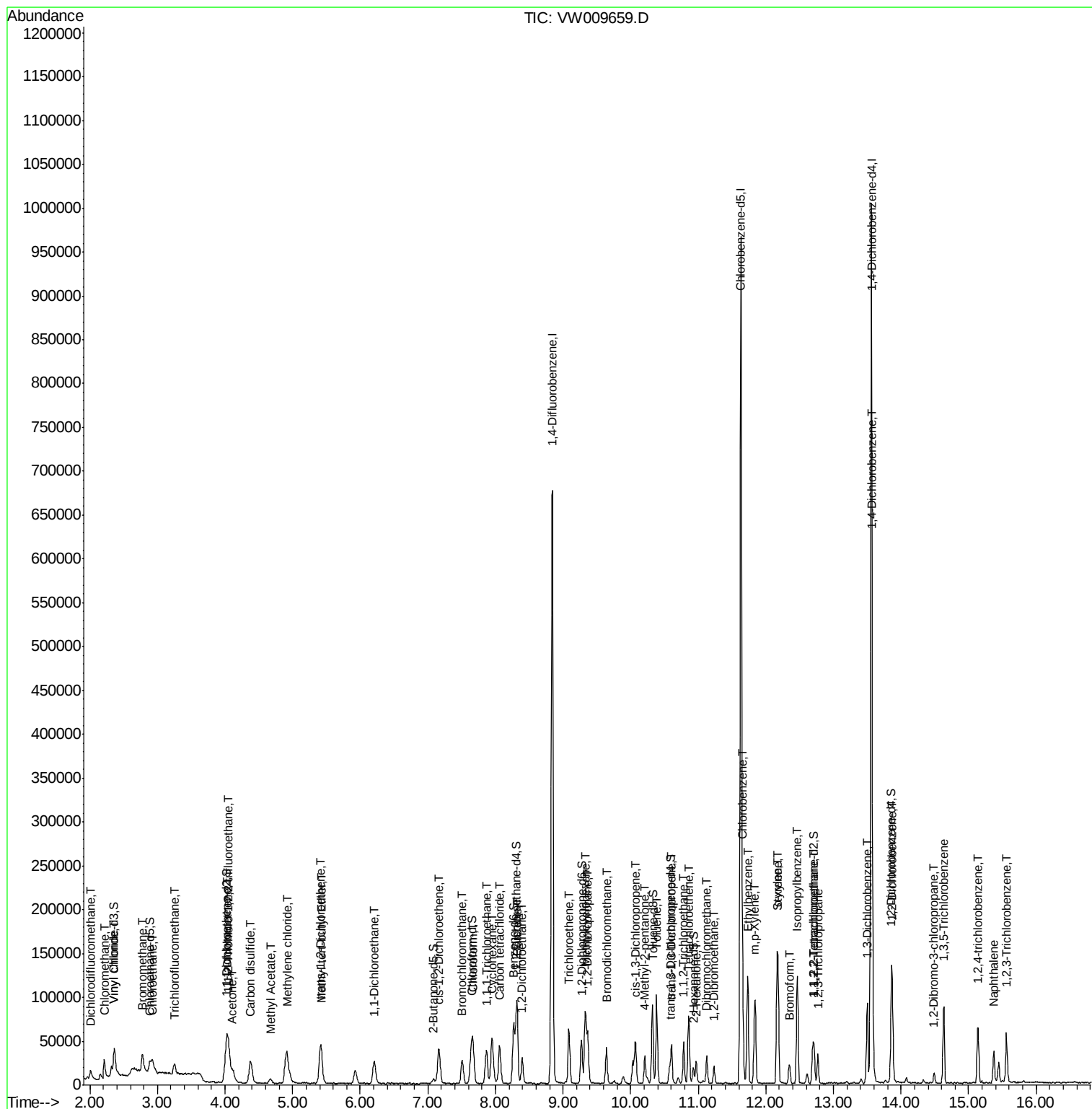
Quant Time: Apr 03 14:34:01 2019

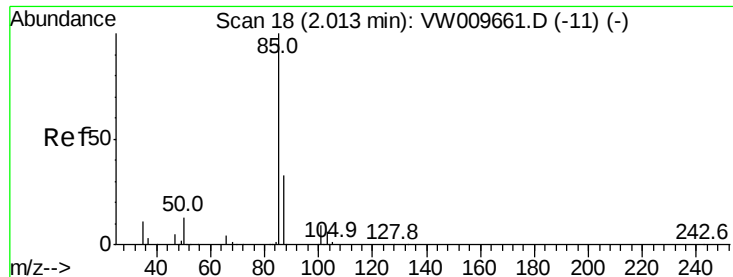
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM040319S.M

Quant Title : VOC Analysis

QLast Update : Wed Apr 03 14:24:12 2019

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 2.230 ug/L

RT: 2.01 min Scan# 18

Delta R.T. 0.00 min

Lab File: VW009659.D

Acq: 03 Apr 2019 11:01

Instrument :

MSVOA\_W

ClientSampleId :

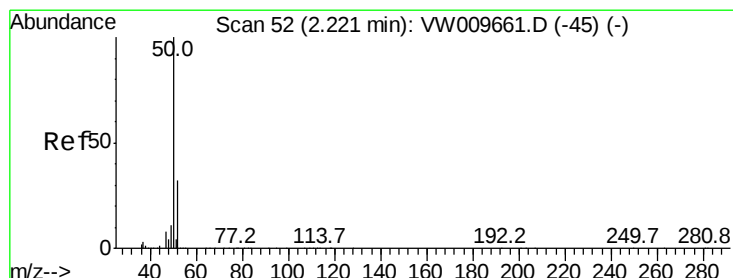
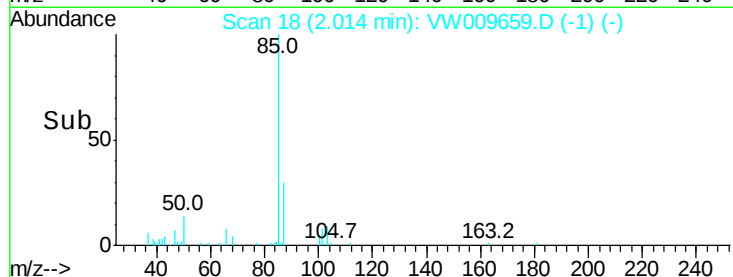
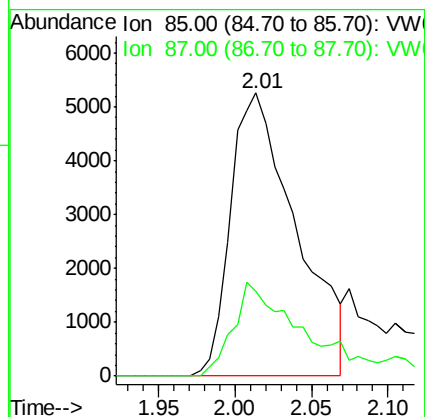
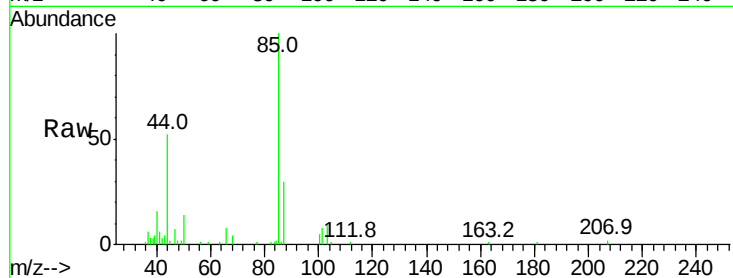
VSTD2.510

Tgt Ion: 85 Resp: 15646

Ion Ratio Lower Upper

85 100

87 28.8 18.1 33.5



#3

Chloromethane

Concen: 2.355 ug/L

RT: 2.21 min Scan# 51

Delta R.T. -0.01 min

Lab File: VW009659.D

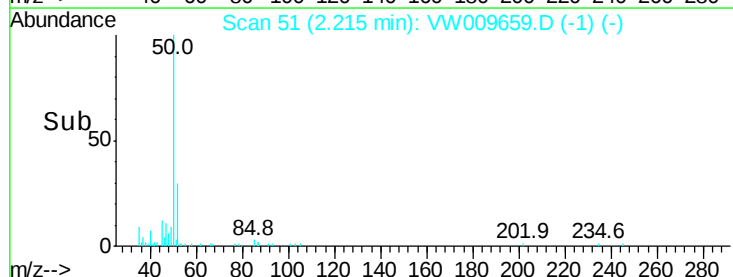
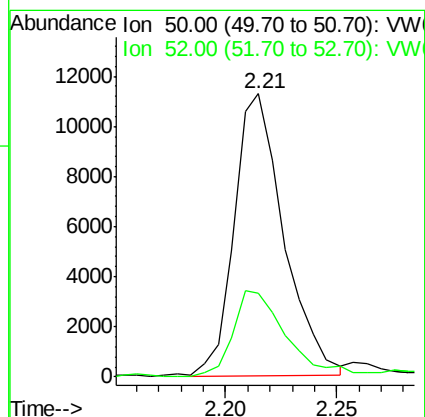
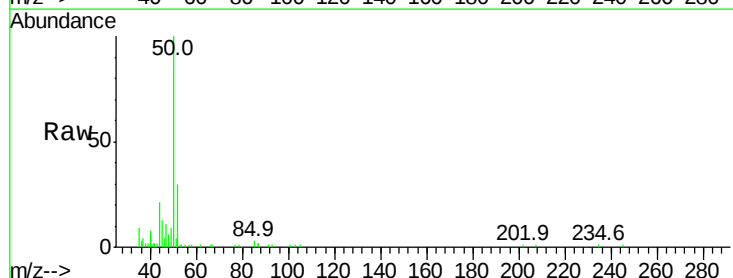
Acq: 03 Apr 2019 11:01

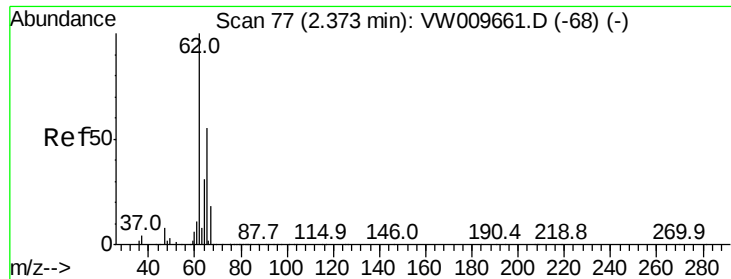
Tgt Ion: 50 Resp: 17531

Ion Ratio Lower Upper

50 100

52 29.8 22.3 41.3





#5

Vinyl chloride

Concen: 3.050 ug/L

RT: 2.36 min Scan# 75

Delta R.T. -0.01 min

Lab File: VW009659.D

Acq: 03 Apr 2019 11:01

Instrument :

MSVOA\_W

ClientSampled :

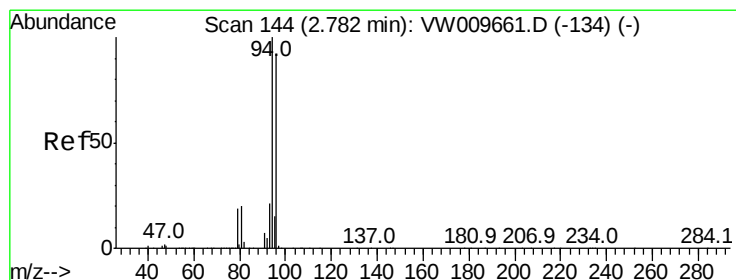
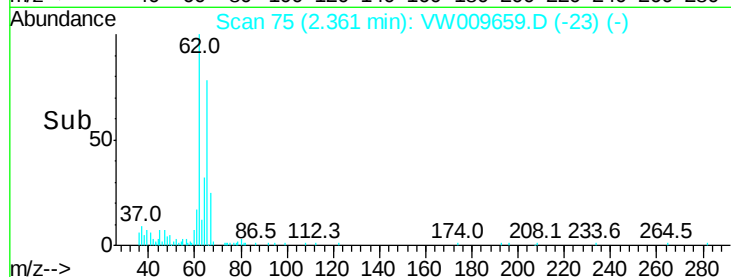
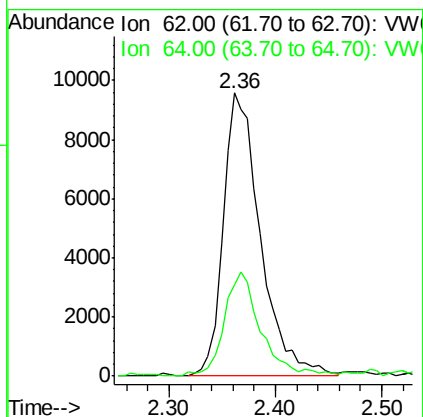
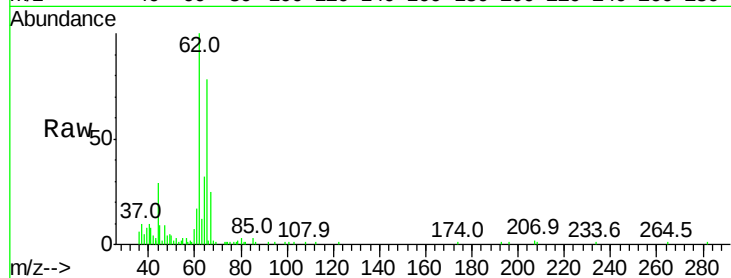
VSTD2.510

Tgt Ion: 62 Resp: 23372

Ion Ratio Lower Upper

62 100

64 32.4 21.8 40.6



#6

Bromomethane

Concen: 2.523 ug/L

RT: 2.78 min Scan# 143

Delta R.T. -0.01 min

Lab File: VW009659.D

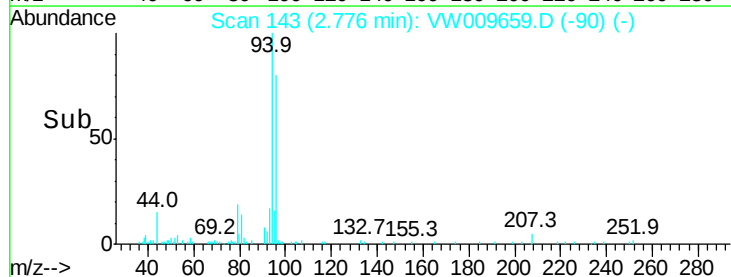
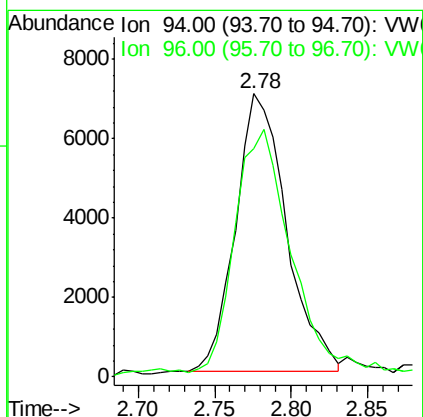
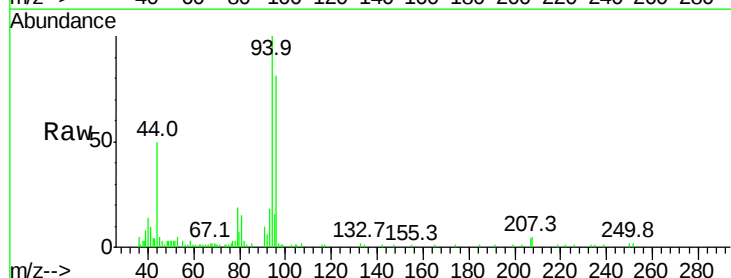
Acq: 03 Apr 2019 11:01

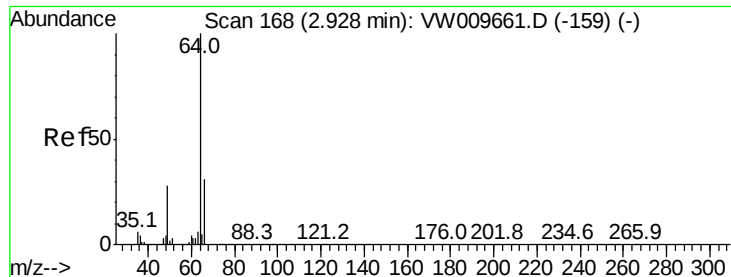
Tgt Ion: 94 Resp: 16196

Ion Ratio Lower Upper

94 100

96 96.2 9.3 177.3





#8

Chloroethane

Concen: 2.340 ug/L

RT: 2.93 min Scan# 168

Delta R.T. 0.00 min

Lab File: VW009659.D

Acq: 03 Apr 2019 11:01

Instrument :

MSVOA\_W

ClientSampleId :

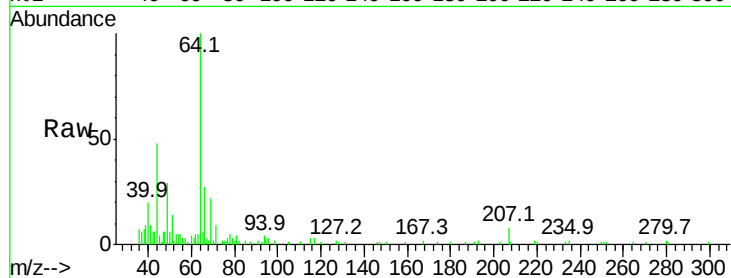
VSTD2.510

Tgt Ion: 64 Resp: 14834

Ion Ratio Lower Upper

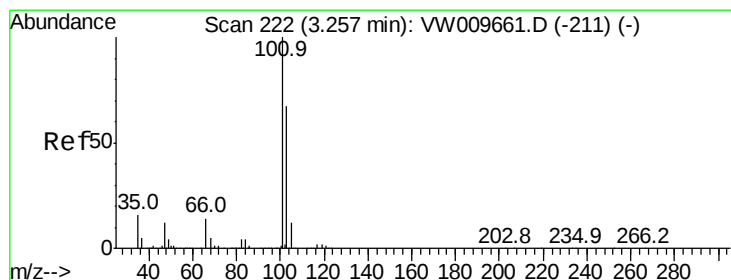
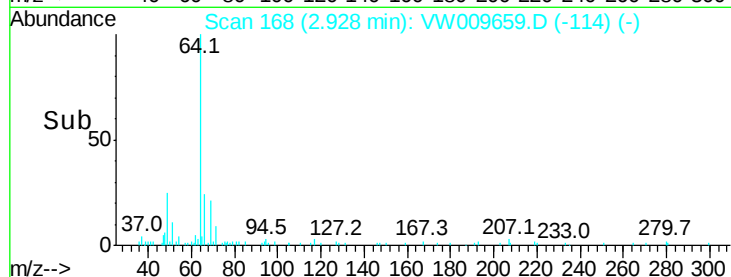
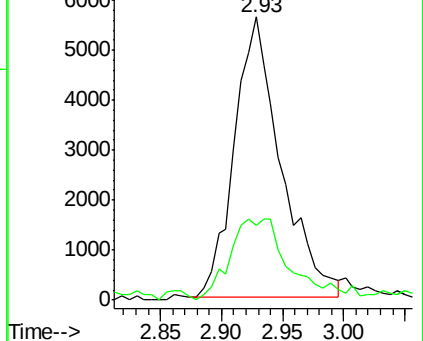
64 100

66 26.6 21.6 40.2



Abundance Ion 64.00 (63.70 to 64.70): VW

Ion 66.00 (65.70 to 66.70): VW



#9

Trichlorofluoromethane

Concen: 2.039 ug/L

RT: 3.25 min Scan# 221

Delta R.T. -0.01 min

Lab File: VW009659.D

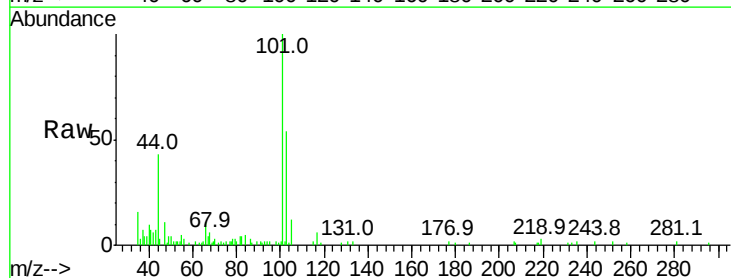
Acq: 03 Apr 2019 11:01

Tgt Ion: 101 Resp: 12339

Ion Ratio Lower Upper

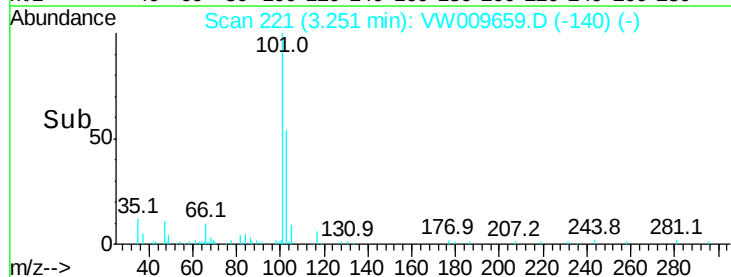
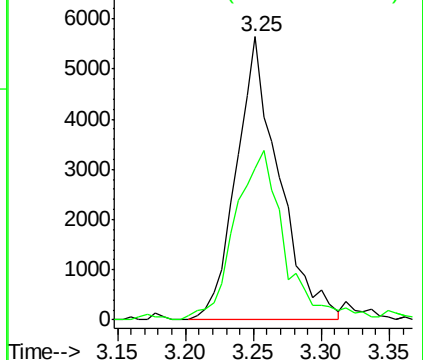
101 100

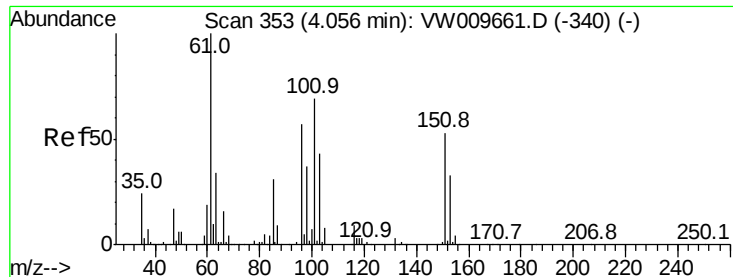
103 60.1 45.1 83.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#11

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

Concen: 1.045 ug/L

RT: 4.05 min Scan# 352

Delta R.T. -0.01 min

Lab File: VW009659.D

Acq: 03 Apr 2019 11:01

Instrument :

MSVOA\_W

ClientSampled :

VSTD2.510

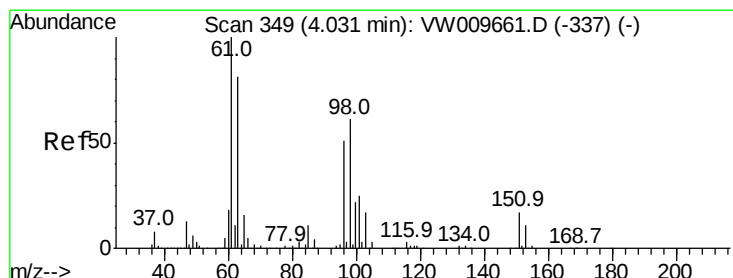
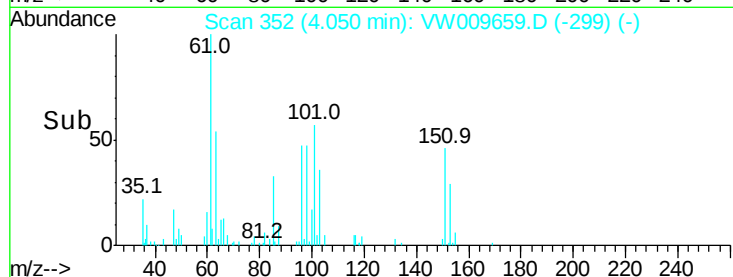
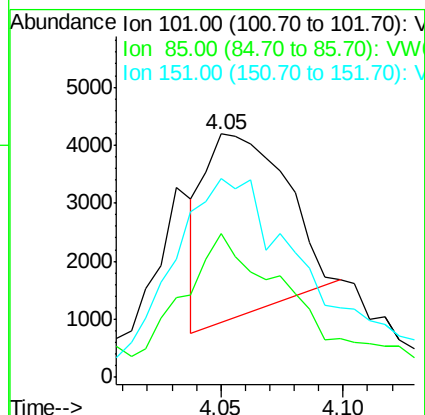
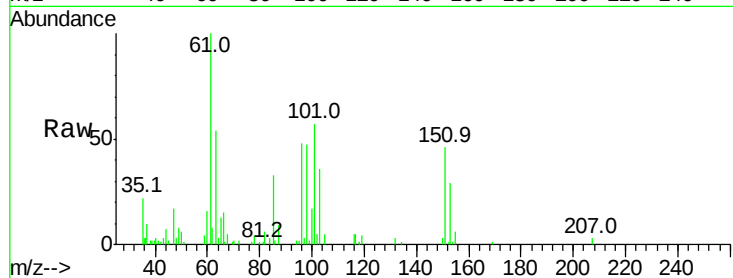
Tgt Ion: 101 Resp: 7302

Ion Ratio Lower Upper

101 100

85 78.0 37.8 56.6#

151 120.8 60.6 91.0#



#12

1,1-Dichloroethene

Concen: 2.650 ug/L

RT: 4.03 min Scan# 349

Delta R.T. 0.00 min

Lab File: VW009659.D

Acq: 03 Apr 2019 11:01

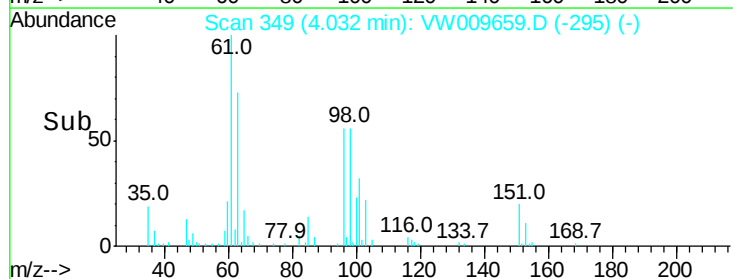
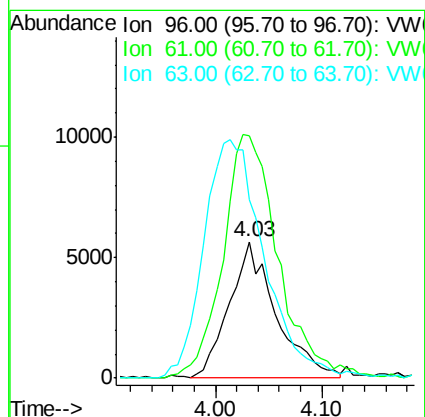
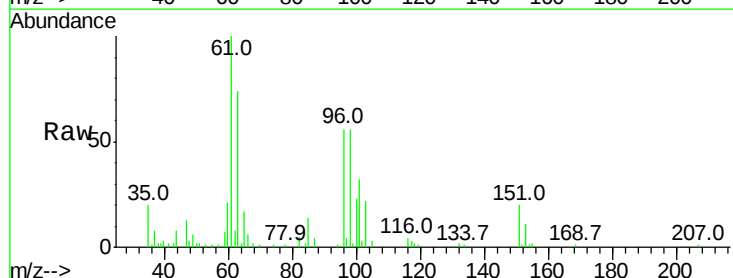
Tgt Ion: 96 Resp: 17379

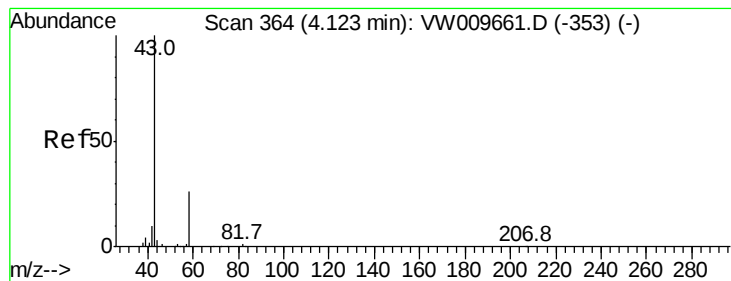
Ion Ratio Lower Upper

96 100

61 178.2 138.8 257.8

63 131.3 114.6 212.8





#13

Acetone

Concen: 2.316 ug/L

RT: 4.10 min Scan# 361

Delta R.T. -0.02 min

Lab File: VW009659.D

Acq: 03 Apr 2019 11:01

Instrument :

MSVOA\_W

ClientSampleId :

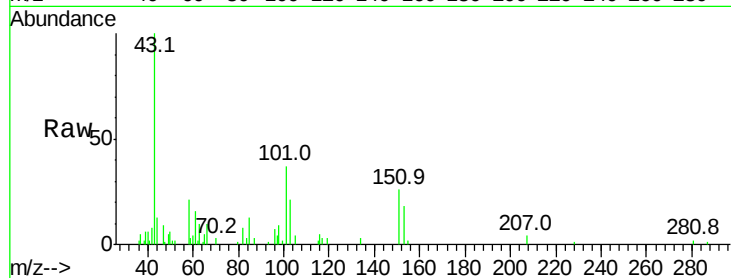
VSTD2.510

Tgt Ion: 43 Resp: 4999

Ion Ratio Lower Upper

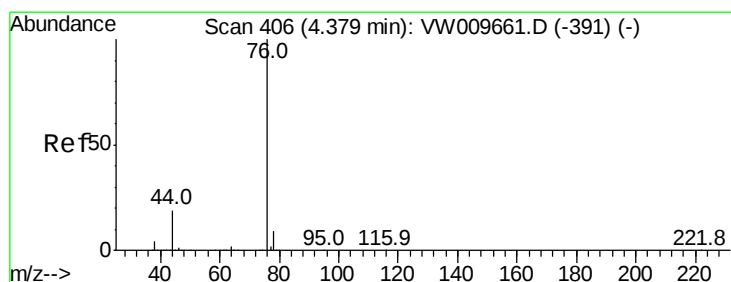
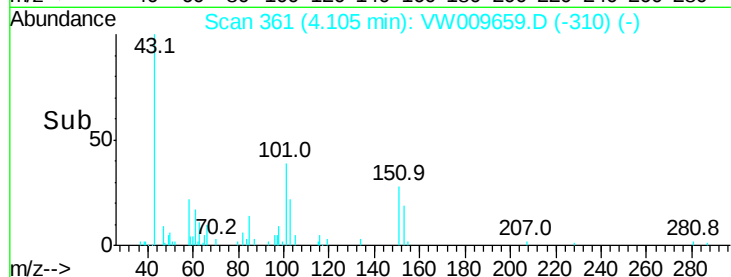
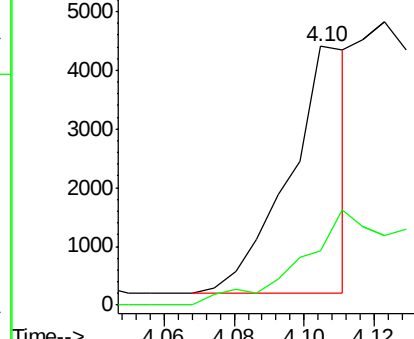
43 100

58 37.1 0.0 53.0



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#14

Carbon disulfide

Concen: 3.094 ug/L

RT: 4.37 min Scan# 405

Delta R.T. -0.01 min

Lab File: VW009659.D

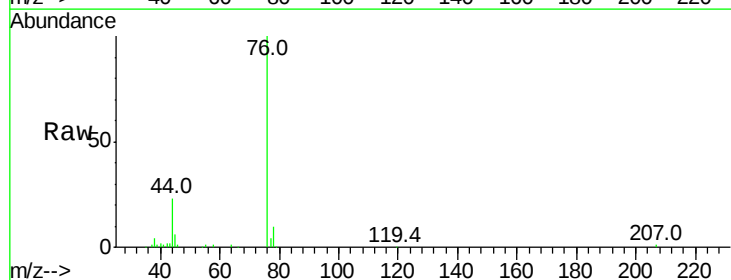
Acq: 03 Apr 2019 11:01

Tgt Ion: 76 Resp: 54621

Ion Ratio Lower Upper

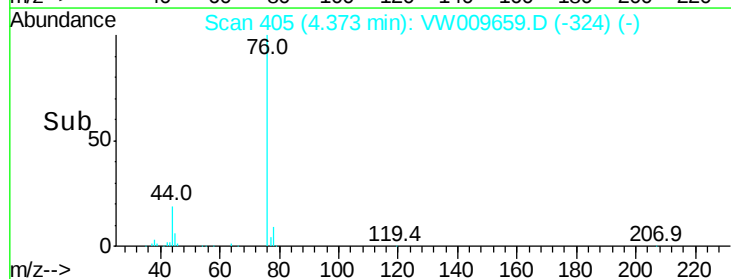
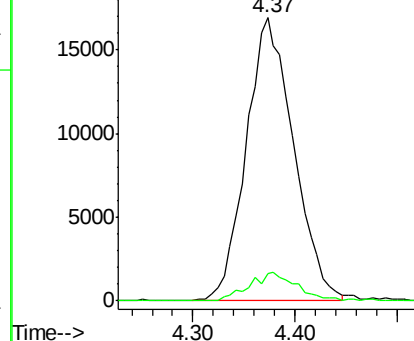
76 100

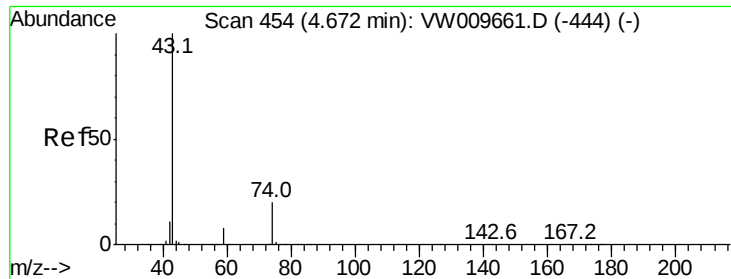
78 9.5 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW

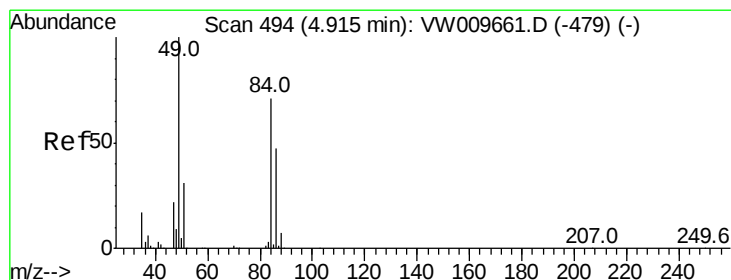
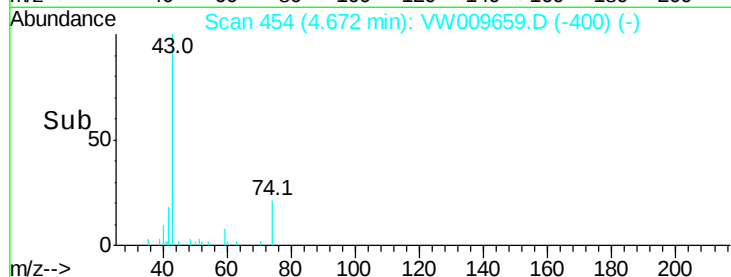
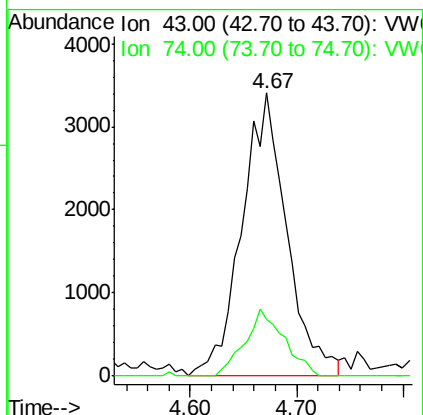
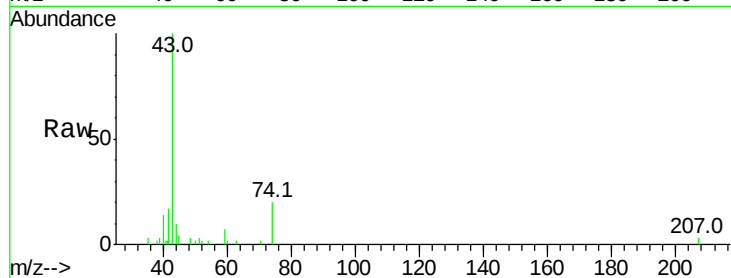




#15  
Methyl Acetate  
Concen: 2.382 ug/L  
RT: 4.67 min Scan# 454  
Delta R.T. 0.00 min  
Lab File: VW009659.D  
Acq: 03 Apr 2019 11:01

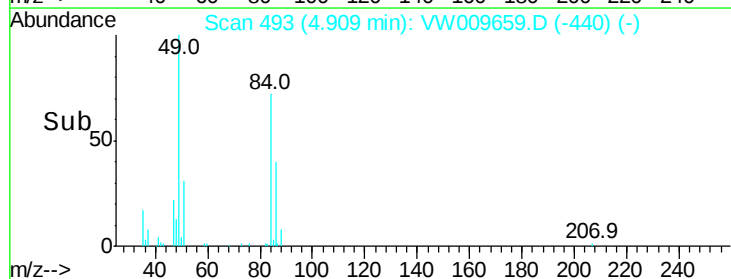
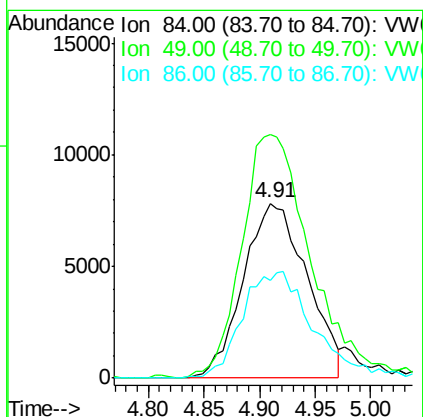
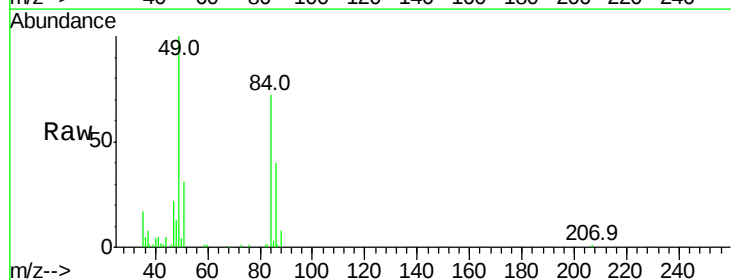
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD2.510

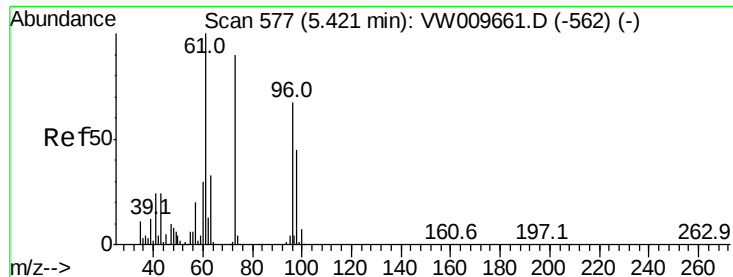
Tgt Ion: 43 Resp: 10100  
Ion Ratio Lower Upper  
43 100  
74 20.5 17.2 25.8



#16  
Methylene chloride  
Concen: 4.014 ug/L  
RT: 4.91 min Scan# 493  
Delta R.T. -0.01 min  
Lab File: VW009659.D  
Acq: 03 Apr 2019 11:01

Tgt Ion: 84 Resp: 31178  
Ion Ratio Lower Upper  
84 100  
49 139.2 98.3 182.5  
86 55.9 46.4 86.2





#17

Methyl tert-butyl Ether

Concen: 2.108 ug/L

RT: 5.43 min Scan# 578

Delta R.T. 0.01 min

Lab File: VW009659.D

Acq: 03 Apr 2019 11:01

Instrument :

MSVOA\_W

ClientSampleId :

VSTD2.510

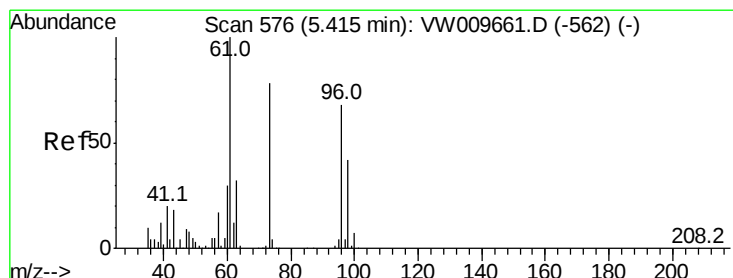
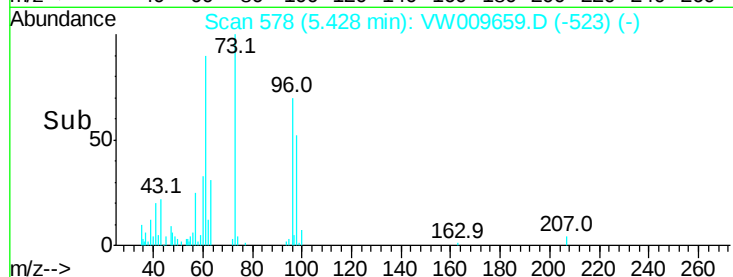
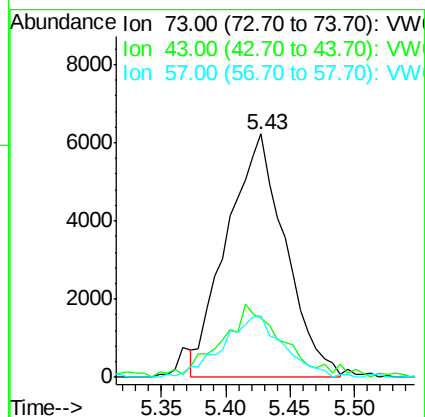
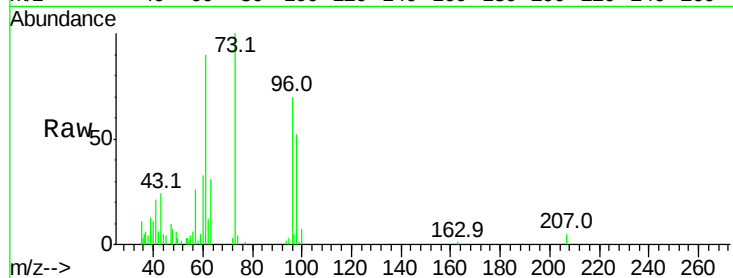
Tgt Ion: 73 Resp: 19564

Ion Ratio Lower Upper

73 100

43 29.2 20.2 30.2

57 22.6 17.8 26.8



#18

trans-1,2-Dichloroethene

Concen: 2.543 ug/L

RT: 5.42 min Scan# 576

Delta R.T. 0.00 min

Lab File: VW009659.D

Acq: 03 Apr 2019 11:01

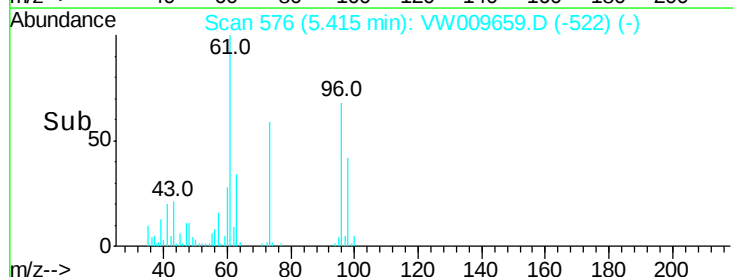
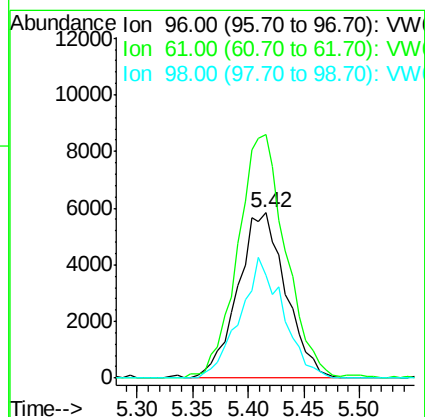
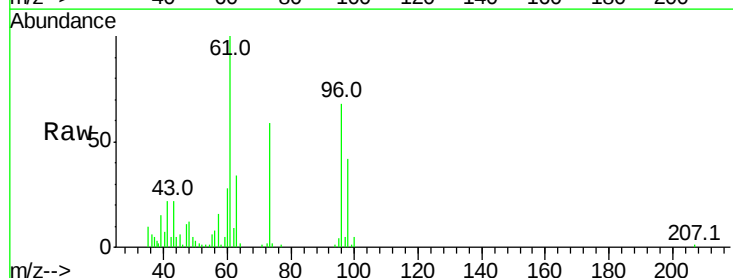
Tgt Ion: 96 Resp: 17540

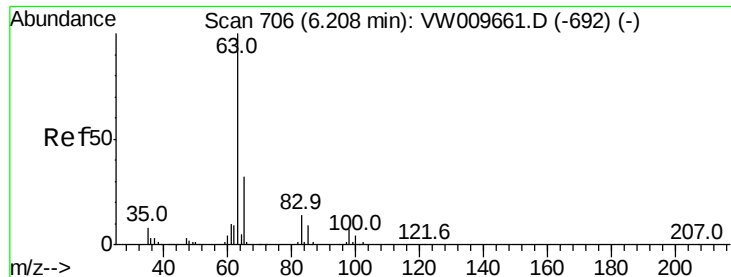
Ion Ratio Lower Upper

96 100

61 147.5 103.7 192.5

98 62.3 43.7 81.1





#19

1,1-Dichloroethane

Concen: 2.677 ug/L

RT: 6.21 min Scan# 706

Delta R.T. 0.00 min

Lab File: VW009659.D

Acq: 03 Apr 2019 11:01

Instrument :

MSVOA\_W

ClientSampled :

VSTD2.510

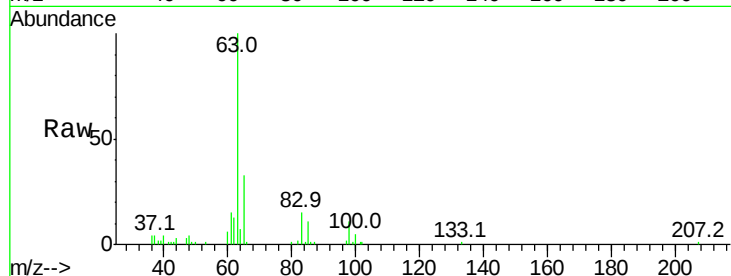
Tgt Ion: 63 Resp: 33658

Ion Ratio Lower Upper

63 100

65 32.9 22.6 42.0

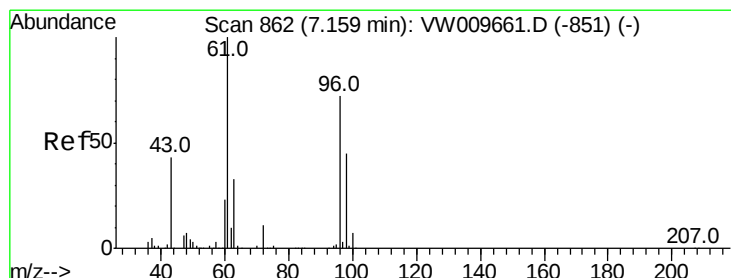
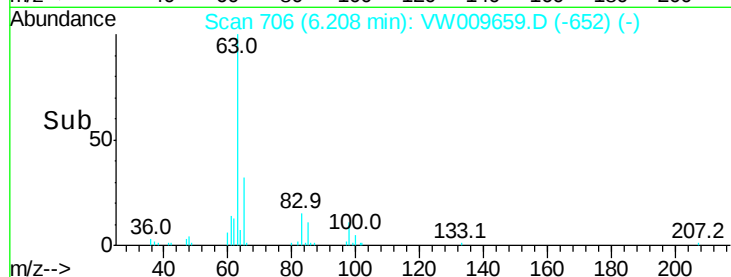
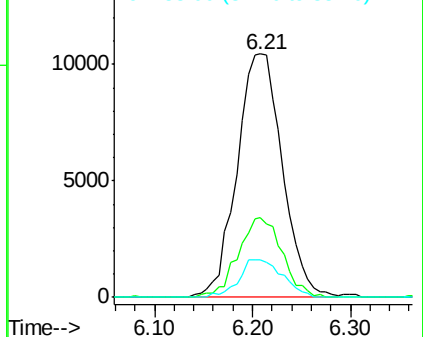
83 15.3 9.8 18.2



Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 65.00 (64.70 to 65.70): VW

Ion 83.00 (82.70 to 83.70): VW



#22

cis-1,2-Dichloroethene

Concen: 1.155 ug/L

RT: 7.15 min Scan# 861

Delta R.T. -0.01 min

Lab File: VW009659.D

Acq: 03 Apr 2019 11:01

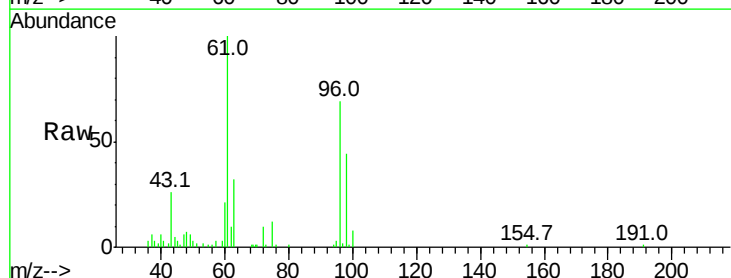
Tgt Ion: 96 Resp: 8625

Ion Ratio Lower Upper

96 100

61 144.3 96.8 179.8

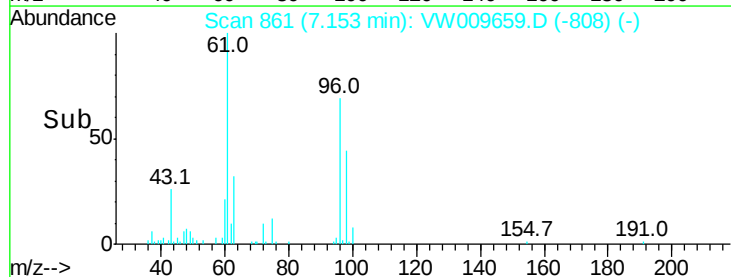
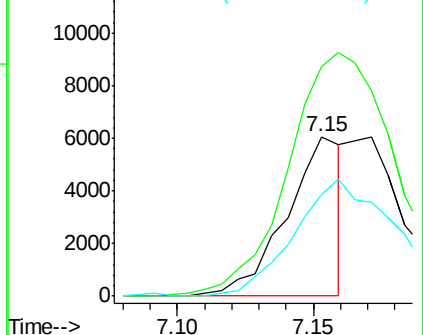
98 64.0 43.5 80.9

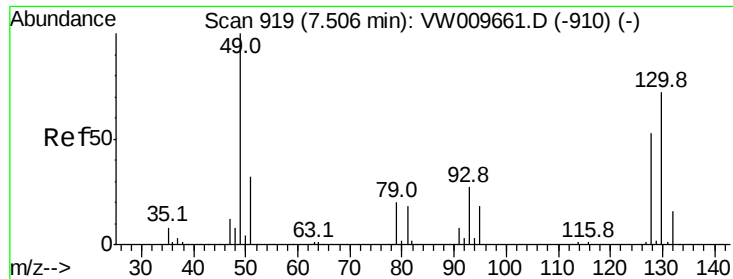


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 98.00 (97.70 to 98.70): VW





#23

Bromochloromethane

Concen: 2.241 ug/L

RT: 7.51 min Scan# 919

Delta R.T. 0.00 min

Lab File: VW009659.D

Acq: 03 Apr 2019 11:01

Instrument :

MSVOA\_W

ClientSampleId :

VSTD2.510

Tgt Ion:128 Resp: 8030

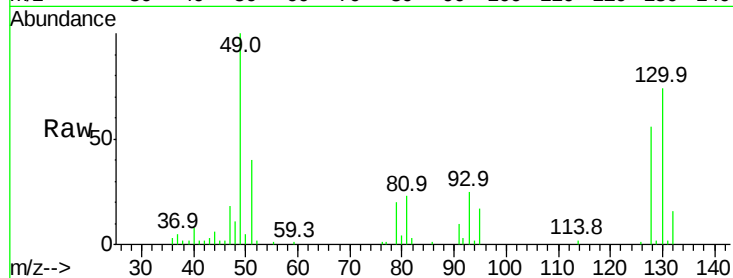
Ion Ratio Lower Upper

128 100

49 178.2 132.6 246.2

130 132.7 95.5 177.4

51 71.7 48.6 73.0

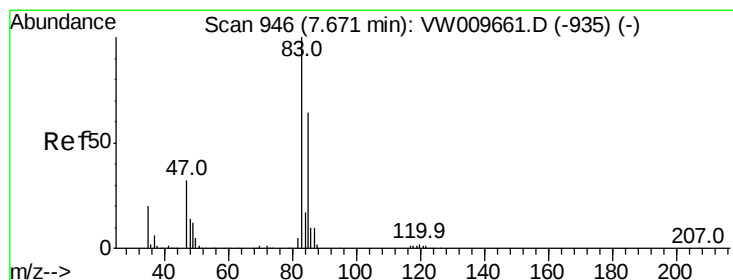
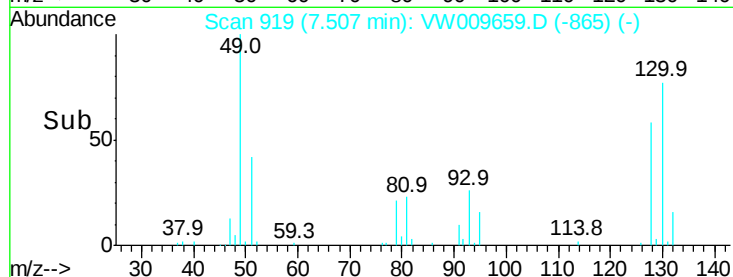
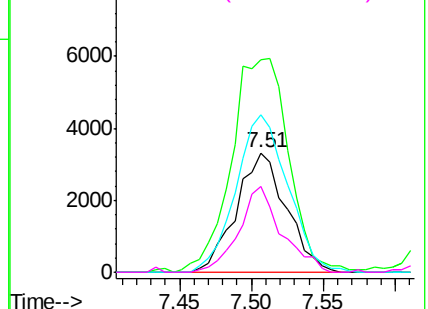


Abundance Ion 128.00 (127.70 to 128.70): V

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



#25

Chloroform

Concen: 2.738 ug/L

RT: 7.67 min Scan# 946

Delta R.T. 0.00 min

Lab File: VW009659.D

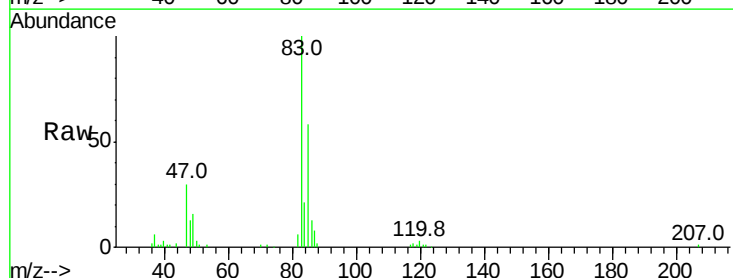
Acq: 03 Apr 2019 11:01

Tgt Ion: 83 Resp: 36059

Ion Ratio Lower Upper

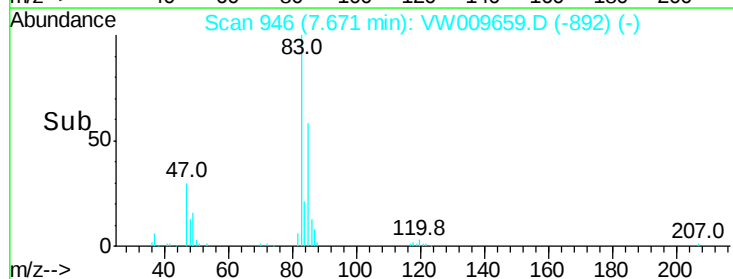
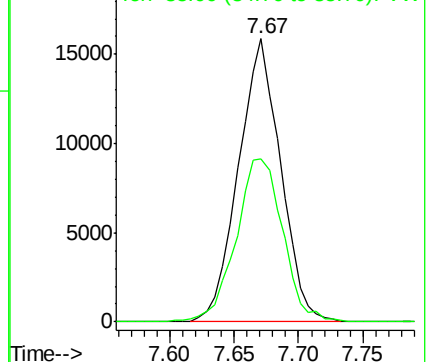
83 100

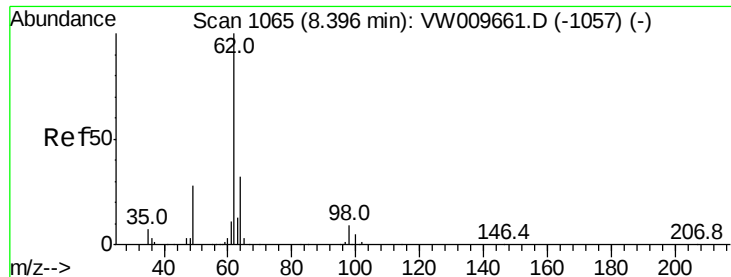
85 63.8 45.6 84.8



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW





#27

1,2-Dichloroethane

Concen: 2.660 ug/L

RT: 8.40 min Scan# 1065

Delta R.T. 0.00 min

Lab File: VW009659.D

Acq: 03 Apr 2019 11:01

Instrument :

MSVOA\_W

ClientSampled :

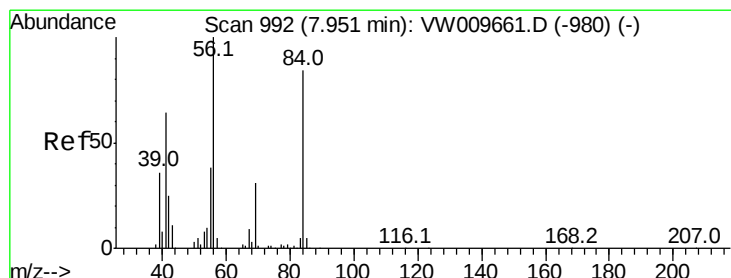
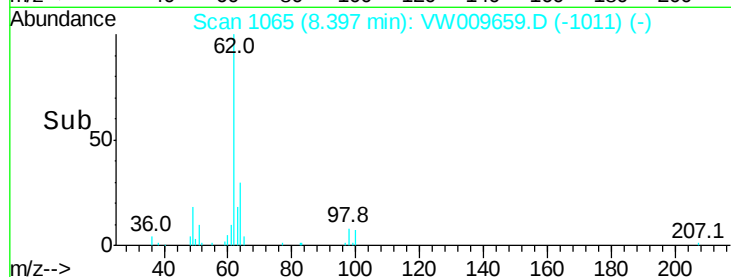
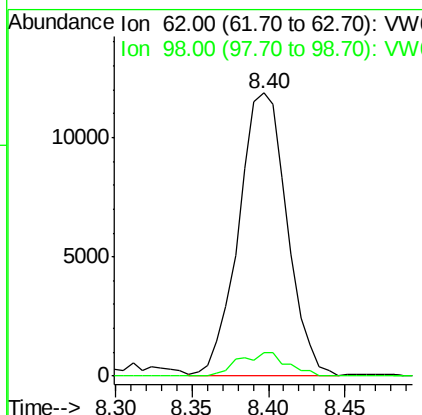
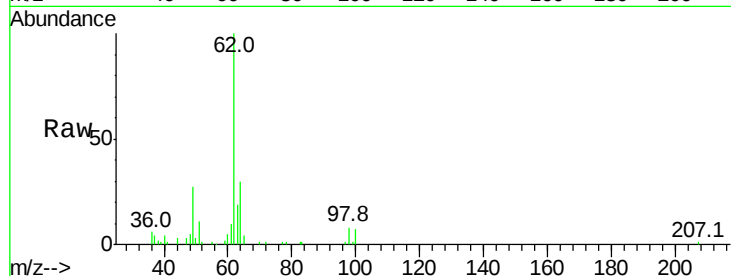
VSTD2.510

Tgt Ion: 62 Resp: 26118

Ion Ratio Lower Upper

62 100

98 8.2 7.0 10.4



#30

Cyclohexane

Concen: 2.194 ug/L

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW009659.D

Acq: 03 Apr 2019 11:01

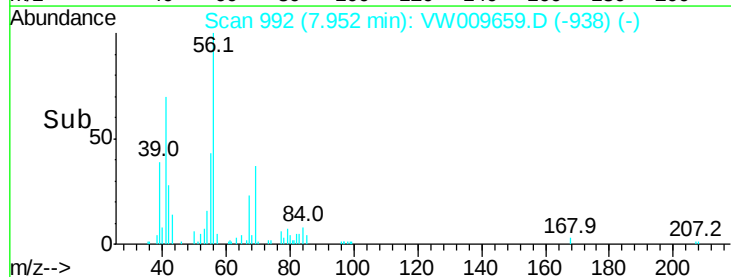
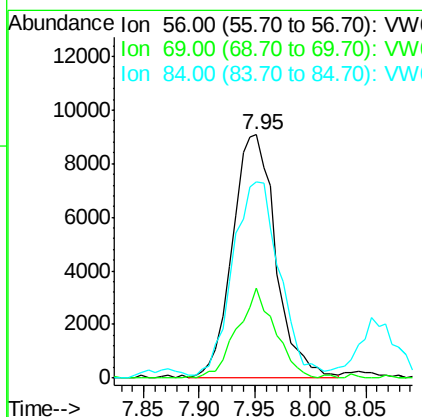
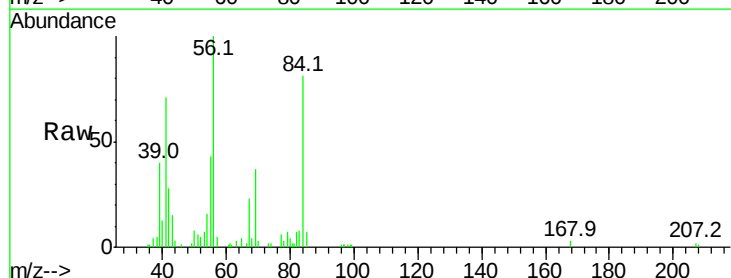
Tgt Ion: 56 Resp: 24522

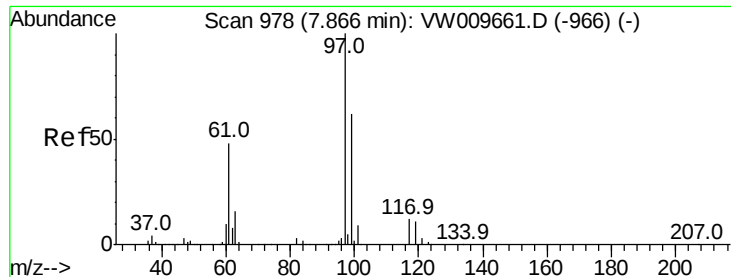
Ion Ratio Lower Upper

56 100

69 32.3 23.4 35.2

84 84.4 67.7 101.5





#31

1,1,1-Trichloroethane

Concen: 2.935 ug/L

RT: 7.87 min Scan# 978

Delta R.T. 0.00 min

Lab File: VW009659.D

Acq: 03 Apr 2019 11:01

Instrument :

MSVOA\_W

ClientSampleId :

VSTD2.510

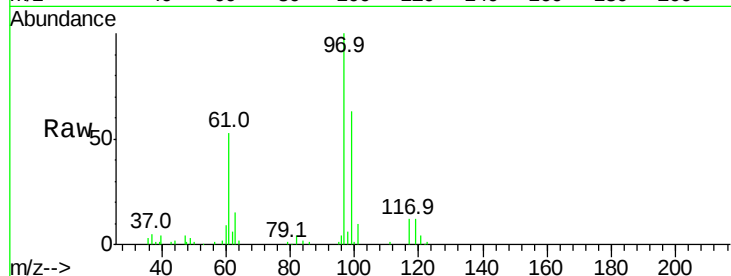
Tgt Ion: 97 Resp: 28847

Ion Ratio Lower Upper

97 100

99 62.0 50.8 76.2

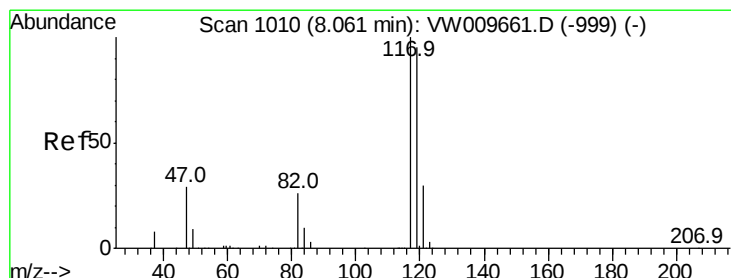
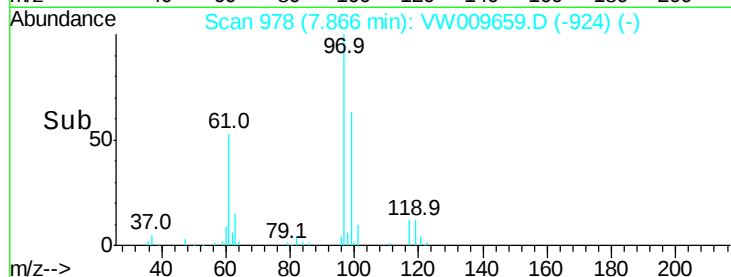
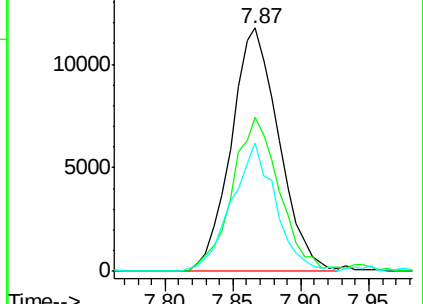
61 48.4 38.6 57.8



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: 2.877 ug/L

RT: 8.06 min Scan# 1010

Delta R.T. 0.00 min

Lab File: VW009659.D

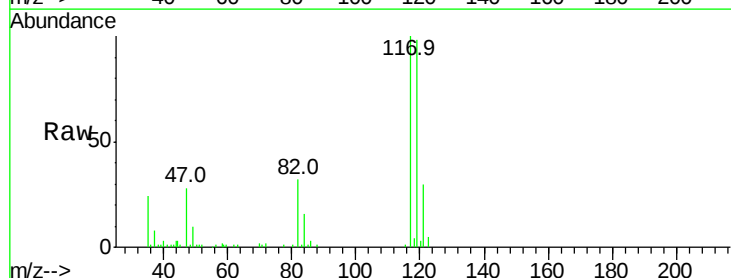
Acq: 03 Apr 2019 11:01

Tgt Ion: 117 Resp: 28535

Ion Ratio Lower Upper

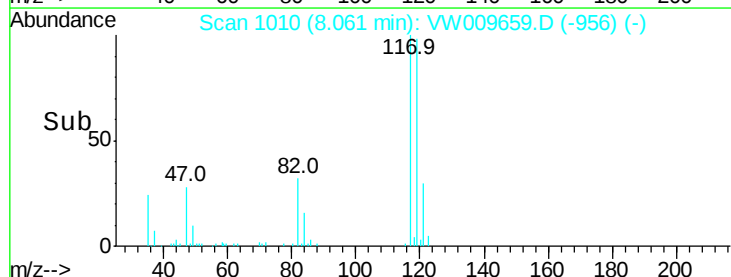
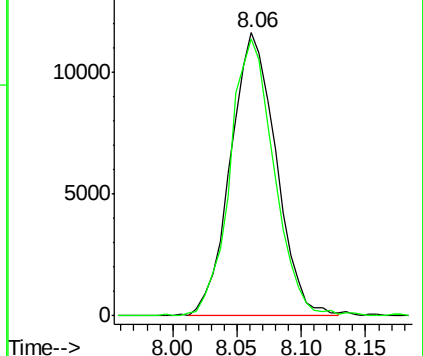
117 100

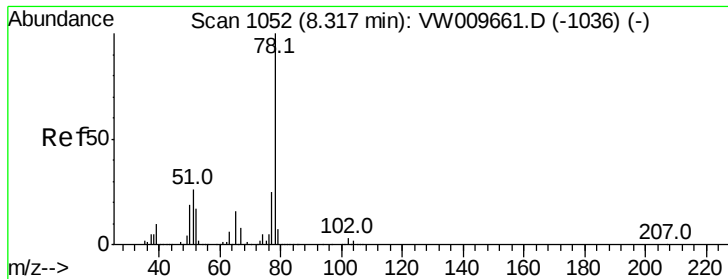
119 94.0 75.4 113.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V





#34

Benzene

Concen: 2.702 ug/L

RT: 8.32 min Scan# 1052

Delta R.T. 0.00 min

Lab File: VW009659.D

Acq: 03 Apr 2019 11:01

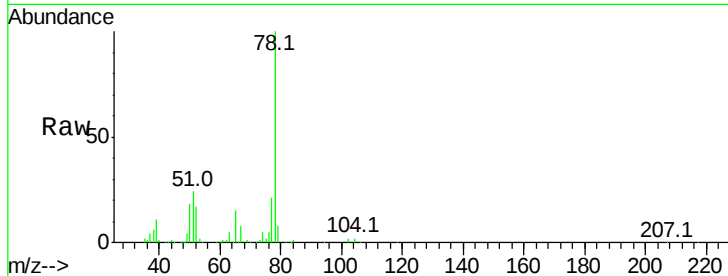
Instrument :

MSVOA\_W

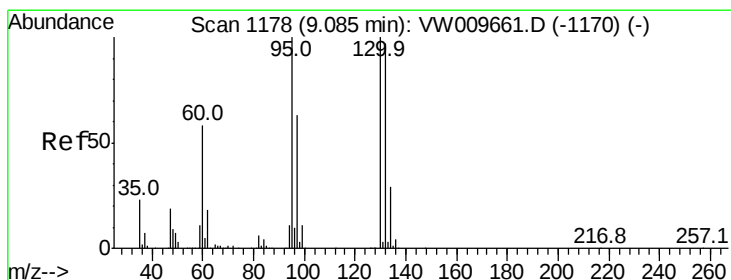
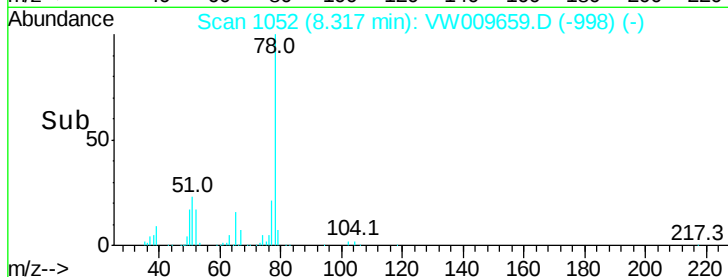
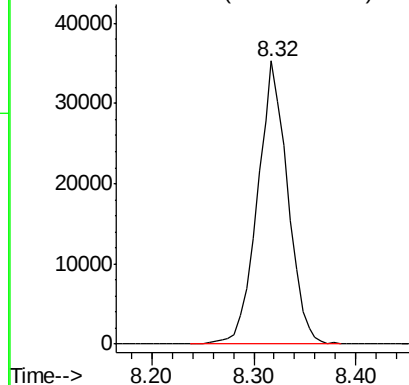
ClientSampleId :

VSTD2.510

Tgt Ion: 78 Resp: 72770



Abundance Ion 78.00 (77.70 to 78.70): VW



#35

Trichloroethene

Concen: 2.699 ug/L

RT: 9.09 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VW009659.D

Acq: 03 Apr 2019 11:01

Tgt Ion: 95 Resp: 19371

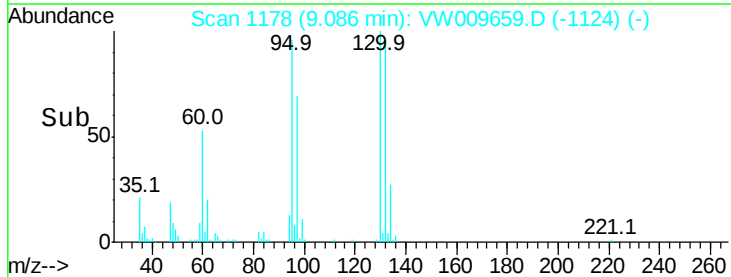
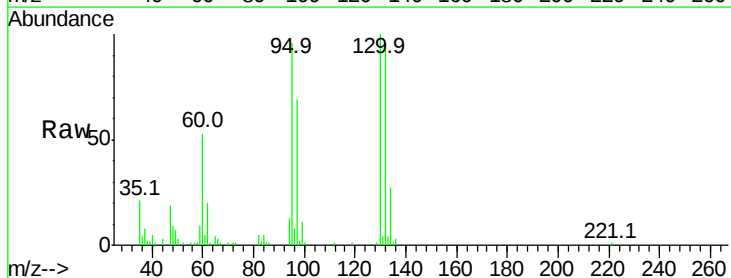
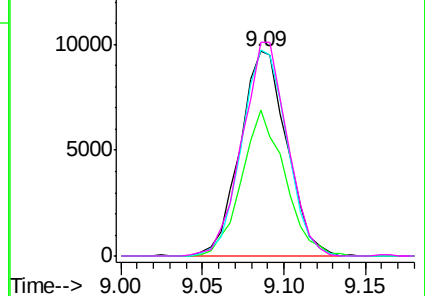
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 66.0  | 44.9  | 83.5  |
| 132 | 97.5  | 67.1  | 124.7 |
| 130 | 100.5 | 69.2  | 128.6 |

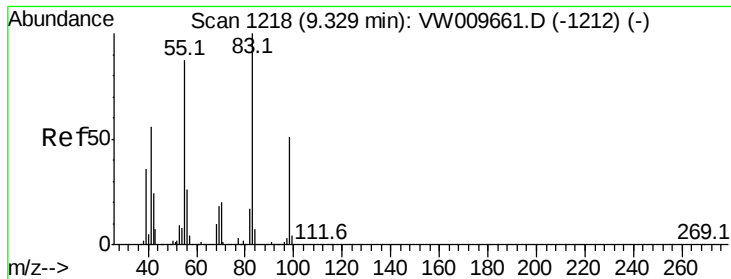
Abundance Ion 95.00 (94.70 to 95.70): VW

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

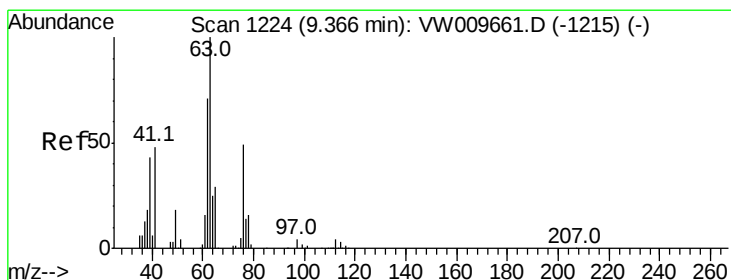
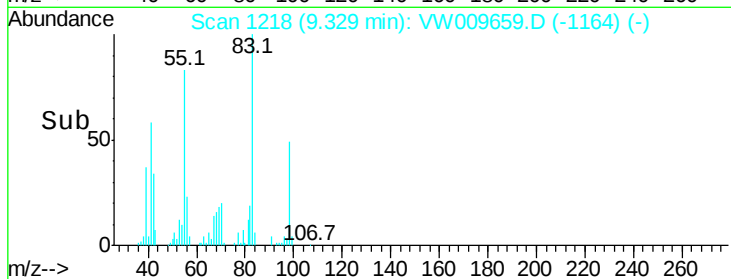
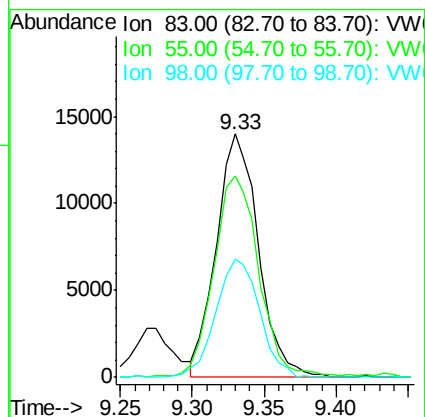
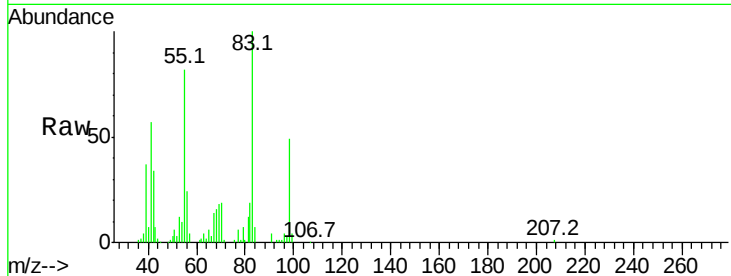




#36  
Methylcyclohexane  
Concen: 2.298 ug/L  
RT: 9.33 min Scan# 1218  
Delta R.T. 0.00 min  
Lab File: VW009659.D  
Acq: 03 Apr 2019 11:01

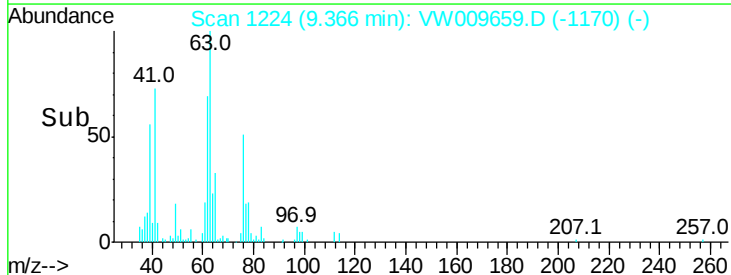
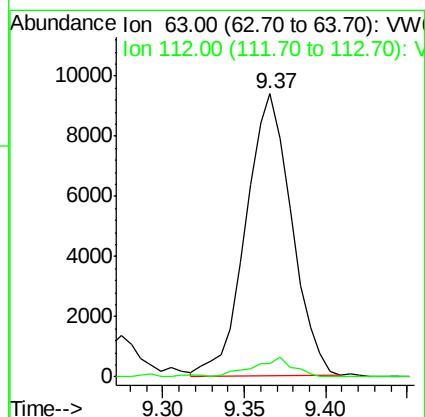
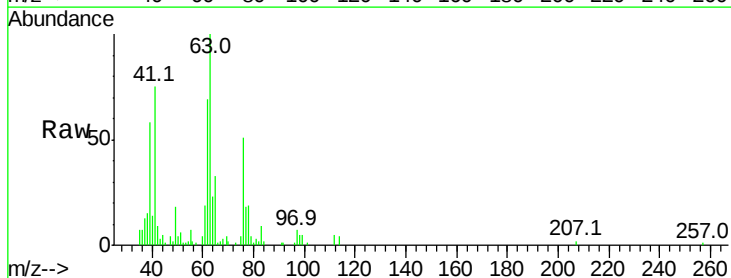
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD2.510

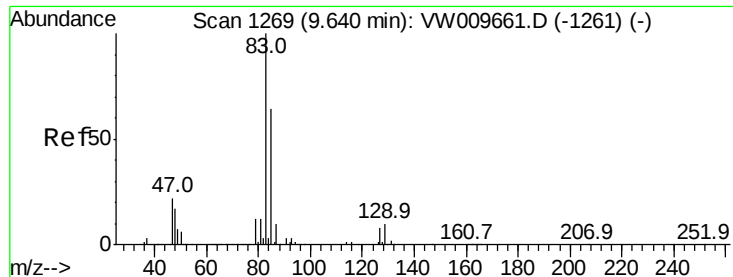
Tgt Ion: 83 Resp: 28537  
Ion Ratio Lower Upper  
83 100  
55 85.8 66.3 99.5  
98 50.4 39.4 59.0



#40  
1,2-Dichloropropane  
Concen: 2.630 ug/L  
RT: 9.37 min Scan# 1224  
Delta R.T. 0.00 min  
Lab File: VW009659.D  
Acq: 03 Apr 2019 11:01

Tgt Ion: 63 Resp: 18179  
Ion Ratio Lower Upper  
63 100  
112 6.0 3.8 5.8#





#41

Bromodichloromethane

Concen: 2.581 ug/L

RT: 9.64 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VW009659.D

Acq: 03 Apr 2019 11:01

Instrument :

MSVOA\_W

ClientSampleId :

VSTD2.510

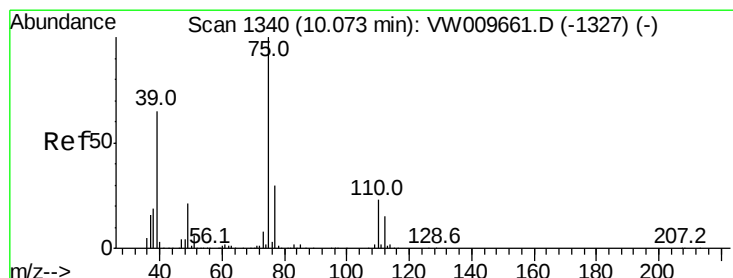
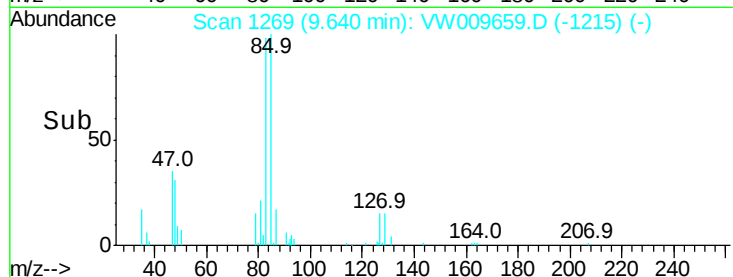
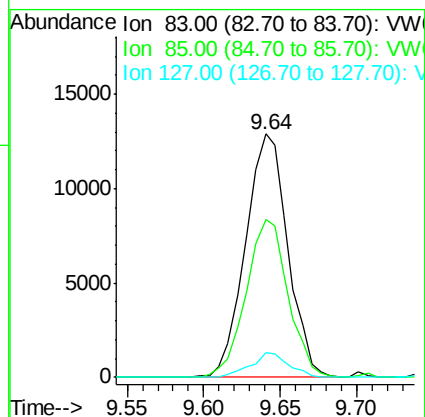
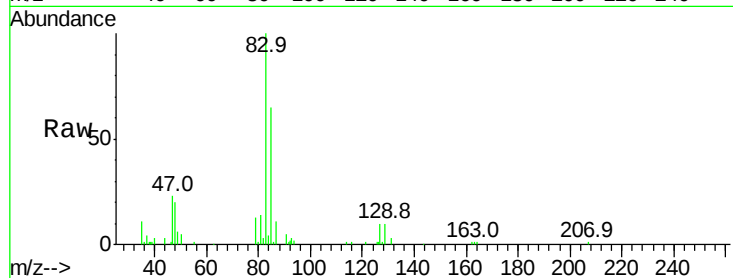
Tgt Ion: 83 Resp: 24715

Ion Ratio Lower Upper

83 100

85 64.8 45.0 83.6

127 9.9 6.7 10.1



#42

cis-1,3-Dichloropropene

Concen: 2.230 ug/L

RT: 10.07 min Scan# 1339

Delta R.T. -0.01 min

Lab File: VW009659.D

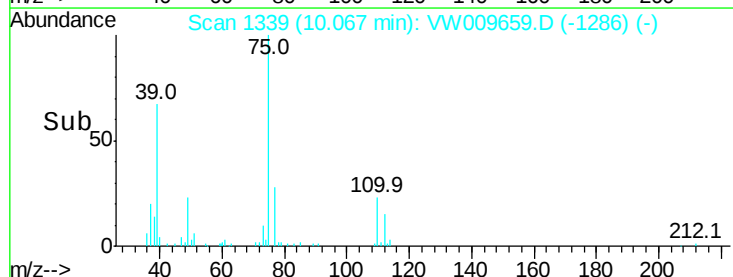
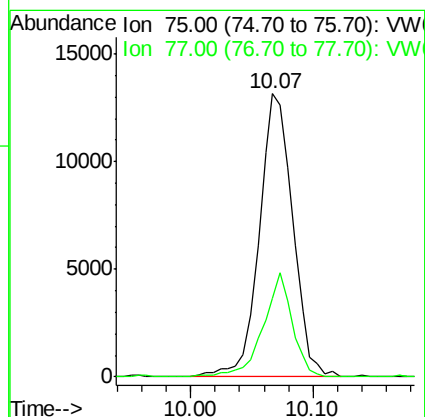
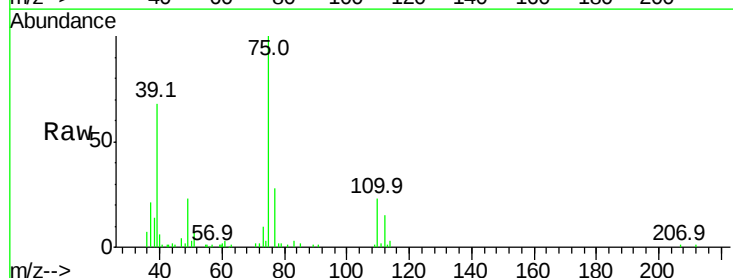
Acq: 03 Apr 2019 11:01

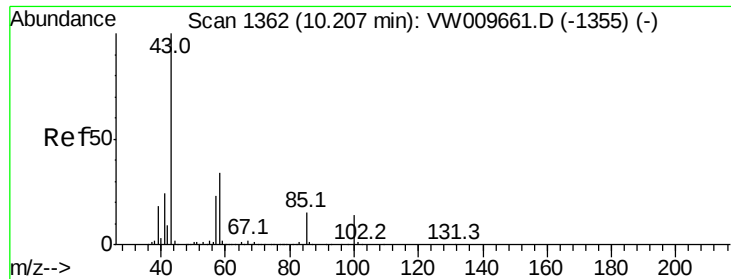
Tgt Ion: 75 Resp: 25103

Ion Ratio Lower Upper

75 100

77 27.9 21.0 39.0

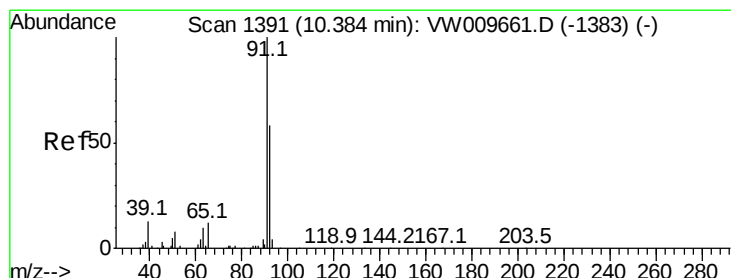
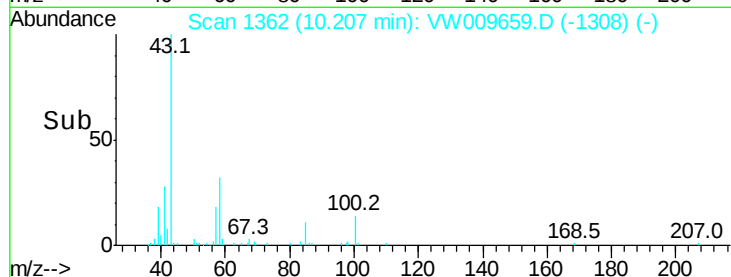
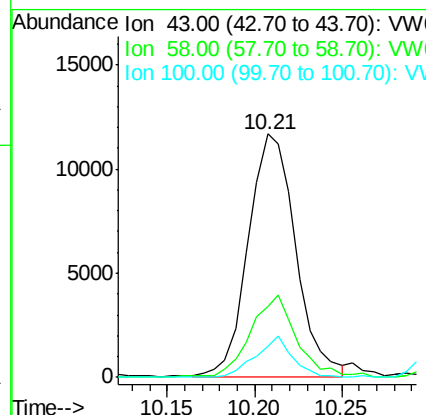
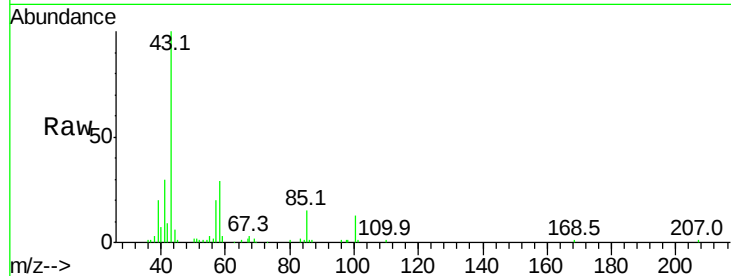




#43  
4-Methyl-2-pentanone  
Concen: 3.530 ug/L  
RT: 10.21 min Scan# 1362  
Delta R.T. 0.00 min  
Lab File: VW009659.D  
Acq: 03 Apr 2019 11:01

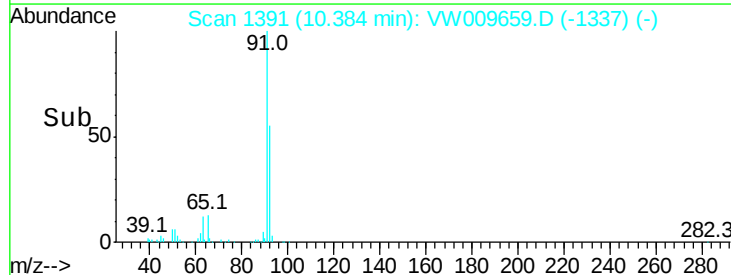
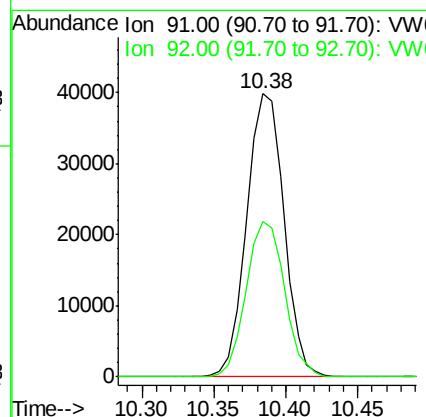
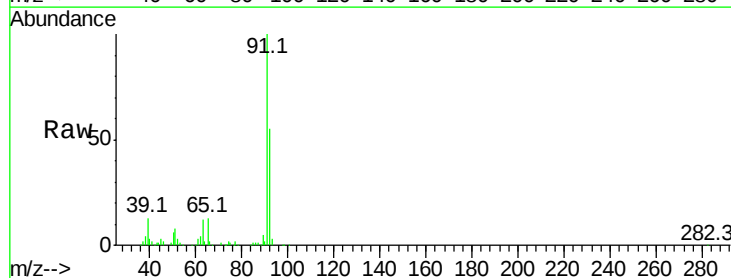
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD2.510

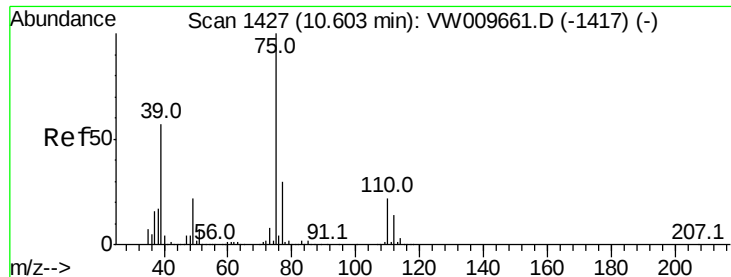
Tgt Ion: 43 Resp: 22111  
Ion Ratio Lower Upper  
43 100  
58 31.8 28.2 42.4  
100 13.1 10.9 16.3



#44  
Toluene  
Concen: 2.426 ug/L  
RT: 10.38 min Scan# 1391  
Delta R.T. 0.00 min  
Lab File: VW009659.D  
Acq: 03 Apr 2019 11:01

Tgt Ion: 91 Resp: 71456  
Ion Ratio Lower Upper  
91 100  
92 55.0 40.5 75.1





#45

trans-1,3-Dichloropropene

Concen: 2.071 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW009659.D

Acq: 03 Apr 2019 11:01

Instrument :

MSVOA\_W

ClientSampled :

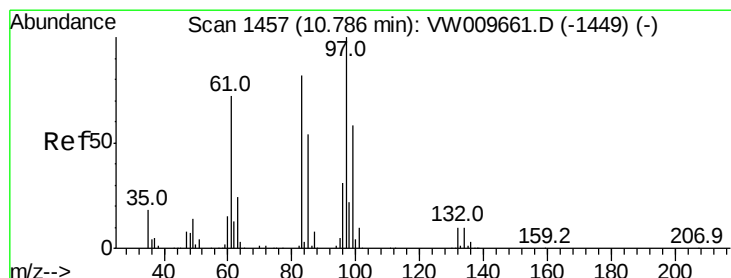
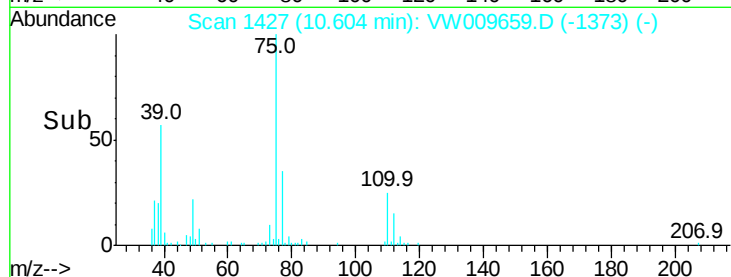
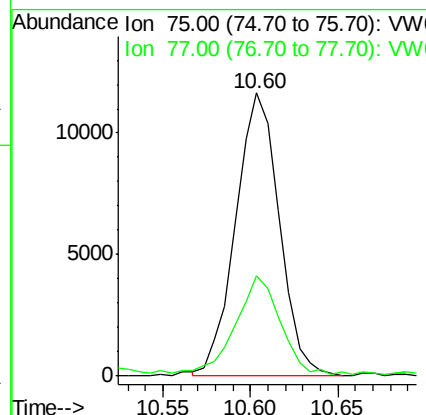
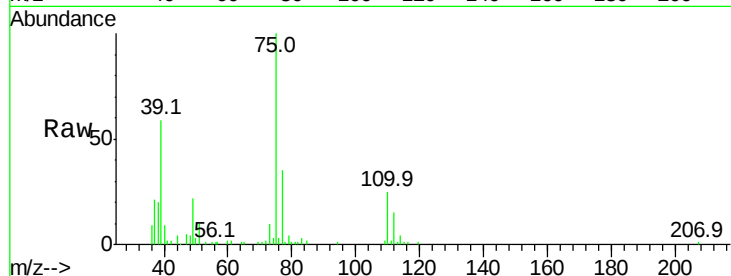
VSTD2.510

Tgt Ion: 75 Resp: 20280

Ion Ratio Lower Upper

75 100

77 35.4 21.1 39.3



#46

1,1,2-Trichloroethane

Concen: 2.347 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW009659.D

Acq: 03 Apr 2019 11:01

Tgt Ion: 97 Resp: 12945

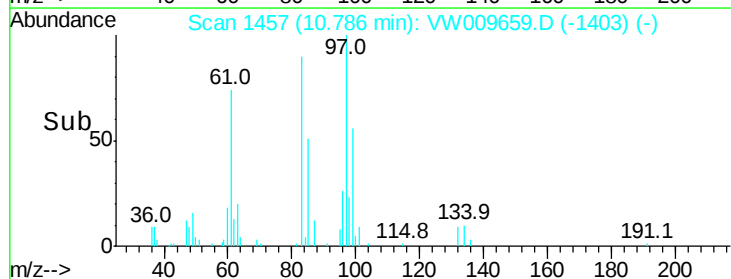
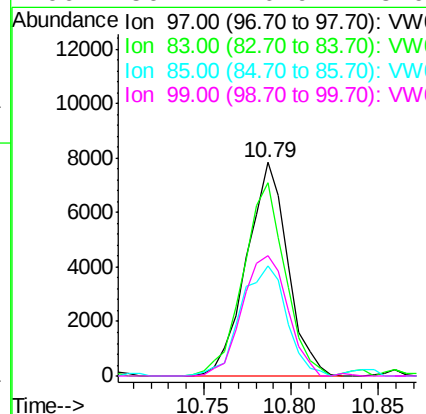
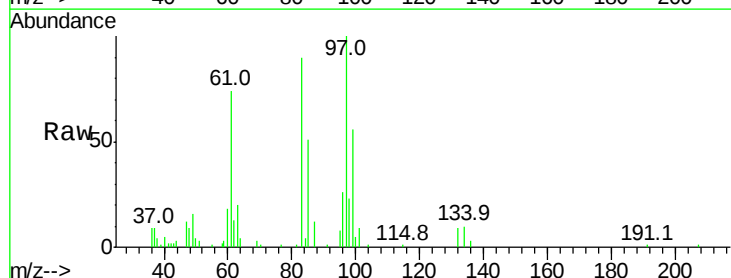
Ion Ratio Lower Upper

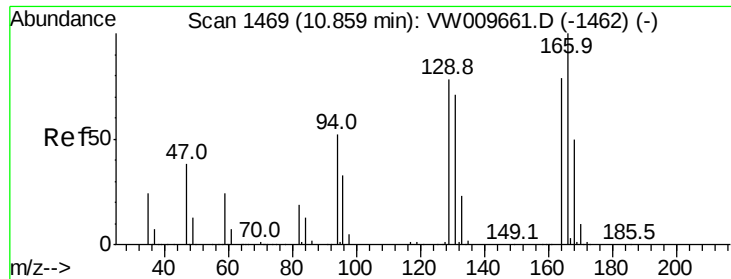
97 100

83 90.5 57.3 106.3

85 51.4 38.1 70.7

99 56.4 40.9 75.9

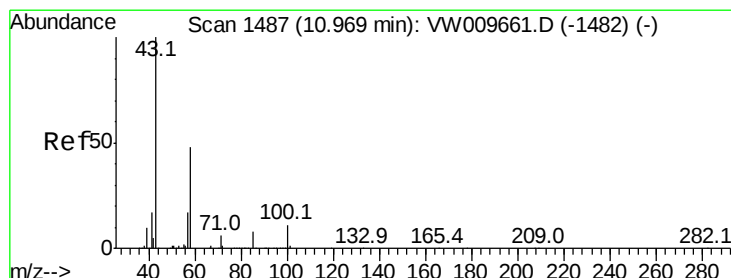
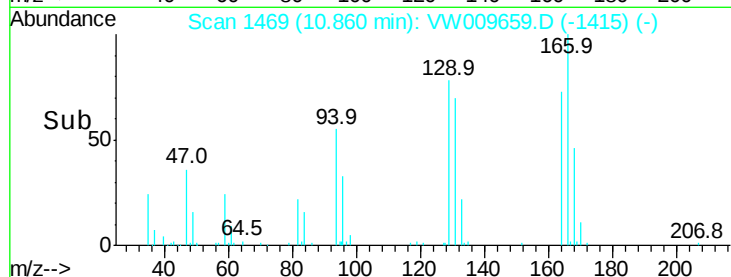
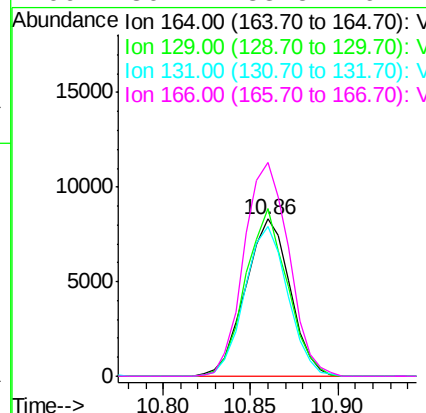
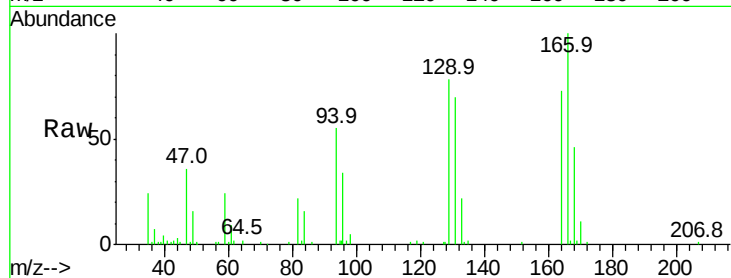




#47  
Tetrachloroethene  
Concen: 2.448 ug/L  
RT: 10.86 min Scan# 1469  
Delta R.T. 0.00 min  
Lab File: VW009659.D  
Acq: 03 Apr 2019 11:01

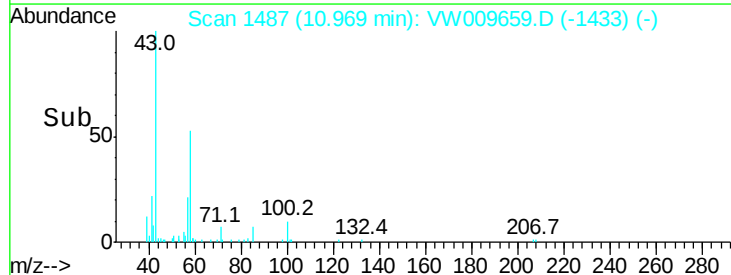
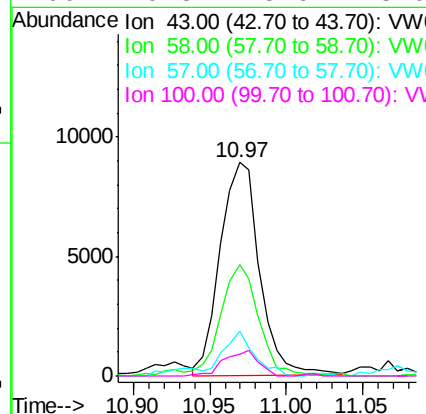
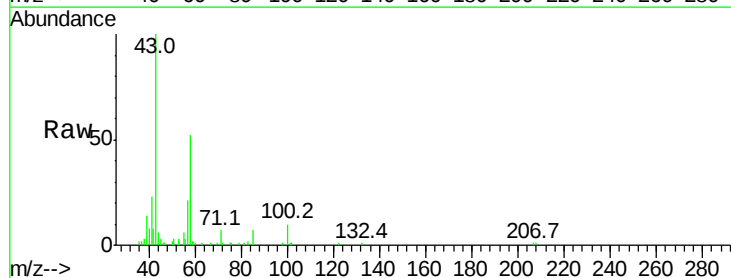
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD2.510

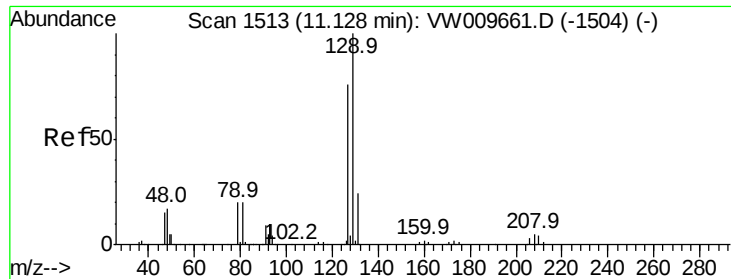
Tgt Ion:164 Resp: 14848  
Ion Ratio Lower Upper  
164 100  
129 106.5 68.9 127.9  
131 95.2 63.1 117.1  
166 136.2 88.5 164.4



#49  
2-Hexanone  
Concen: 3.628 ug/L  
RT: 10.97 min Scan# 1487  
Delta R.T. 0.00 min  
Lab File: VW009659.D  
Acq: 03 Apr 2019 11:01

Tgt Ion: 43 Resp: 16005  
Ion Ratio Lower Upper  
43 100  
58 50.4 38.9 58.3  
57 16.2 13.8 20.6  
100 9.8 8.6 13.0





#50

Dibromochloromethane

Concen: 2.222 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VW009659.D

Acq: 03 Apr 2019 11:01

Instrument :

MSVOA\_W

ClientSampleId :

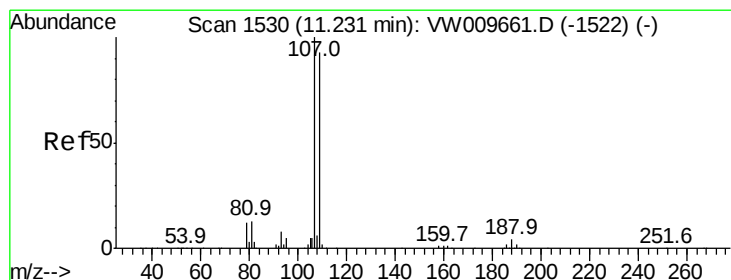
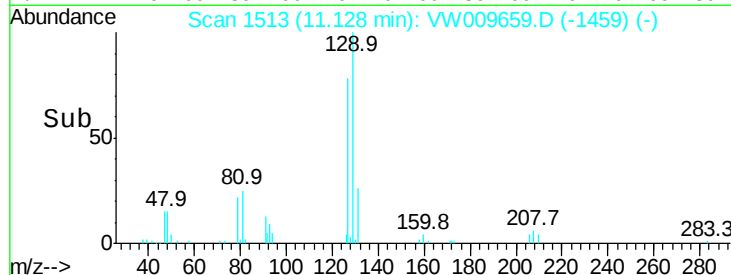
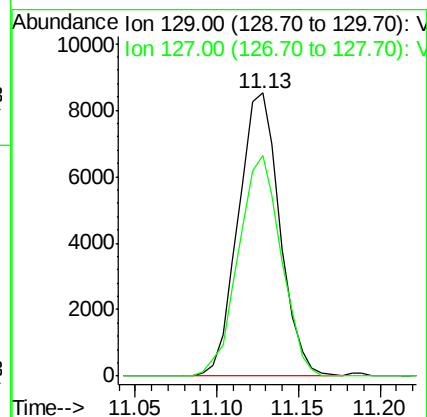
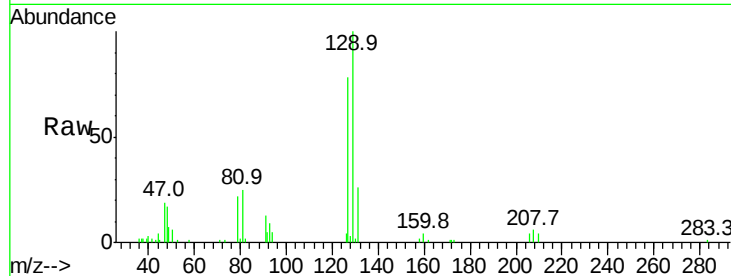
VSTD2.510

Tgt Ion:129 Resp: 15127

Ion Ratio Lower Upper

129 100

127 77.8 53.0 98.4



#51

1,2-Dibromoethane

Concen: 2.260 ug/L

RT: 11.24 min Scan# 1531

Delta R.T. 0.01 min

Lab File: VW009659.D

Acq: 03 Apr 2019 11:01

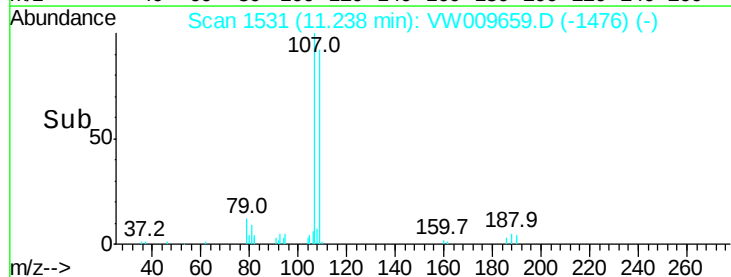
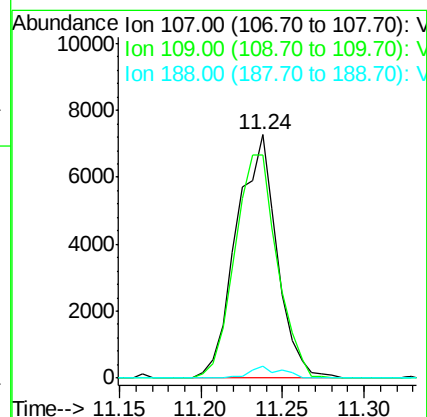
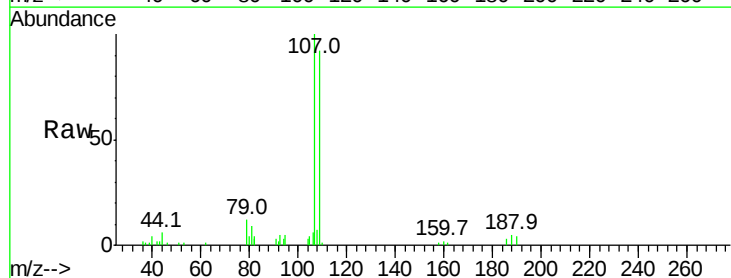
Tgt Ion:107 Resp: 12632

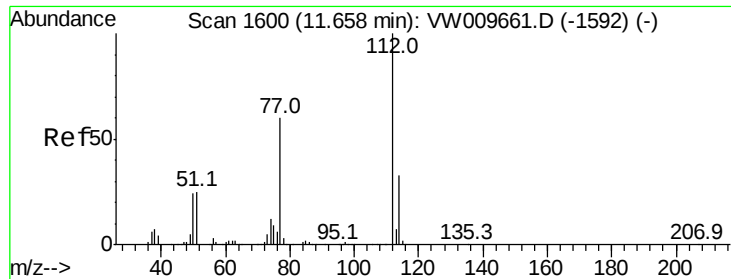
Ion Ratio Lower Upper

107 100

109 91.7 65.4 121.4

188 5.0 3.2 4.8#





#52

Chlorobenzene

Concen: 2.604 ug/L

RT: 11.66 min Scan# 1600

Delta R.T. 0.00 min

Lab File: VW009659.D

Acq: 03 Apr 2019 11:01

Instrument :

MSVOA\_W

ClientSampleId :

VSTD2.510

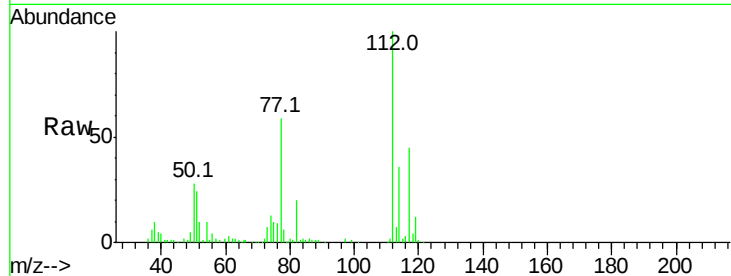
Tgt Ion: 112 Resp: 49191

Ion Ratio Lower Upper

112 100

77 58.6 48.2 72.2

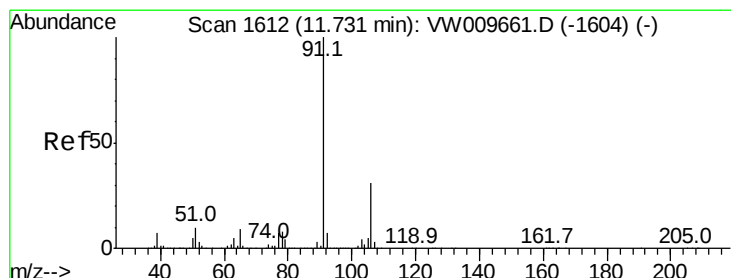
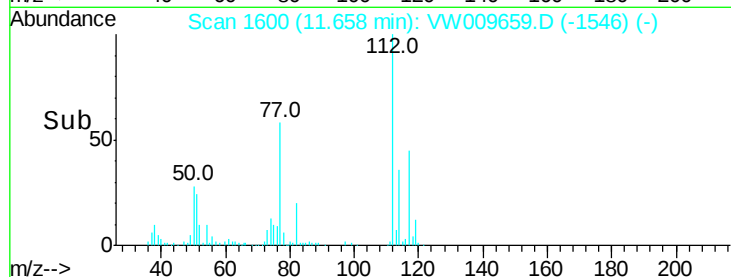
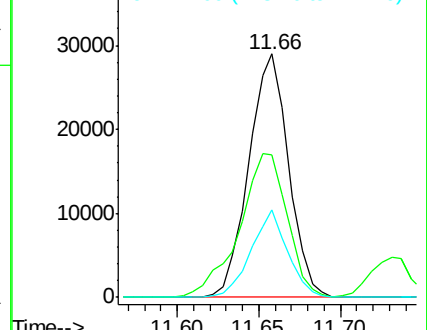
114 35.9 23.0 42.6



Abundance Ion 112.00 (111.70 to 112.70): VW009661.D (-1592) (-)

Ion 77.00 (76.70 to 77.70): VW009661.D (-1592) (-)

Ion 114.00 (113.70 to 114.70): VW009661.D (-1592) (-)



#53

Ethylbenzene

Concen: 2.398 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW009659.D

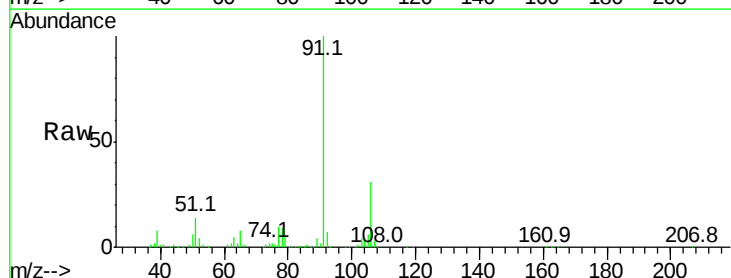
Acq: 03 Apr 2019 11:01

Tgt Ion: 91 Resp: 79397

Ion Ratio Lower Upper

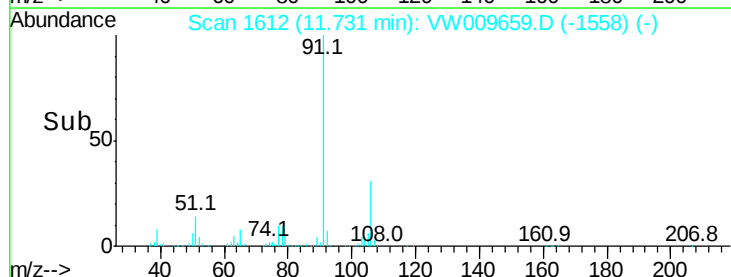
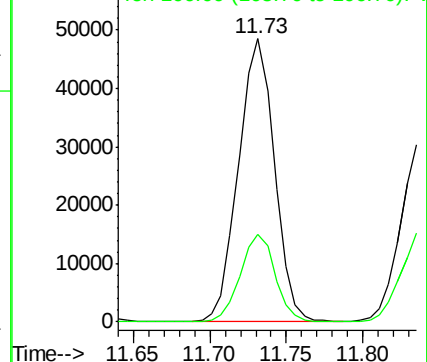
91 100

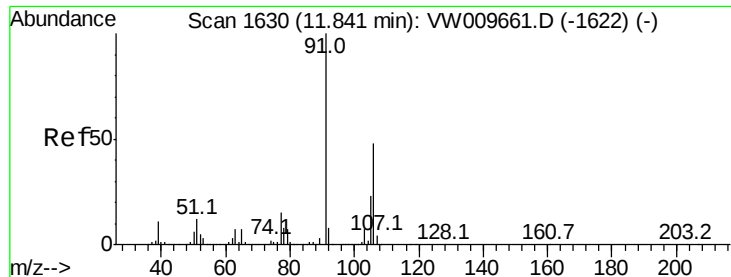
106 31.0 21.5 39.9



Abundance Ion 91.00 (90.70 to 91.70): VW009661.D (-1604) (-)

Ion 106.00 (105.70 to 106.70): VW009661.D (-1604) (-)





#54

m,p-Xylene

Concen: 2.287 ug/L

RT: 11.84 min Scan# 1629

Delta R.T. -0.01 min

Lab File: VW009659.D

Acq: 03 Apr 2019 11:01

Instrument :

MSVOA\_W

ClientSampleId :

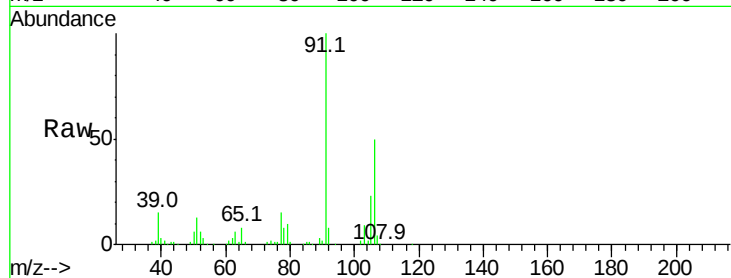
VSTD2.510

Tgt Ion:106 Resp: 28766

Ion Ratio Lower Upper

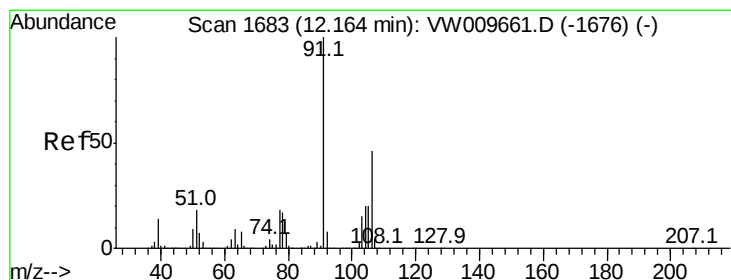
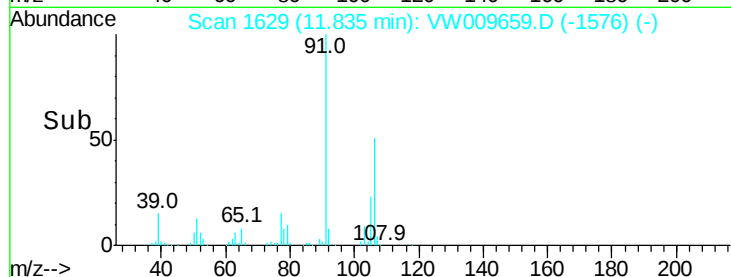
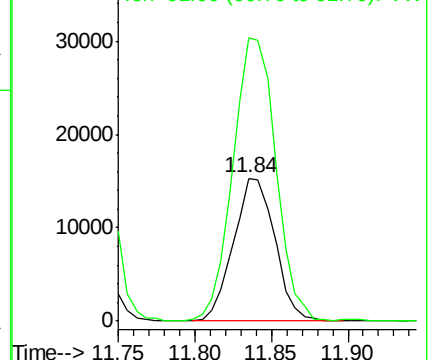
106 100

91 198.4 145.3 269.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#55

o-xylene

Concen: 2.076 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. 0.00 min

Lab File: VW009659.D

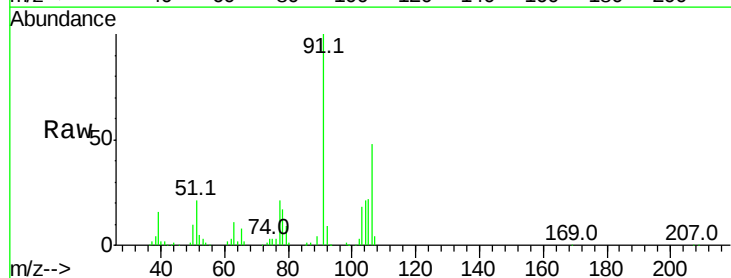
Acq: 03 Apr 2019 11:01

Tgt Ion:106 Resp: 25474

Ion Ratio Lower Upper

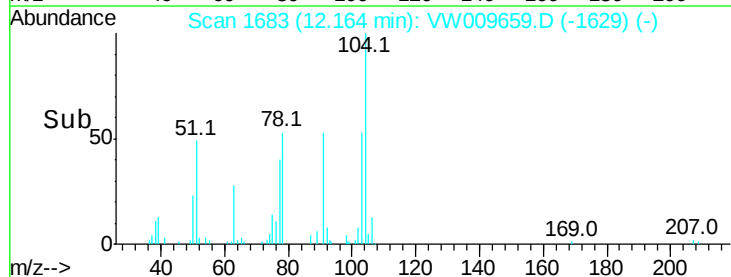
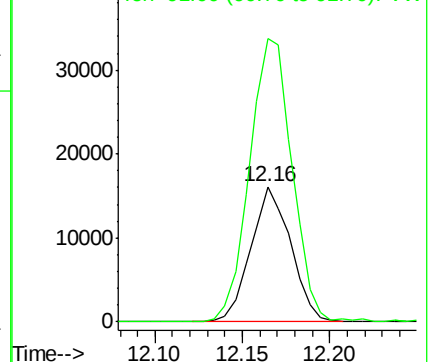
106 100

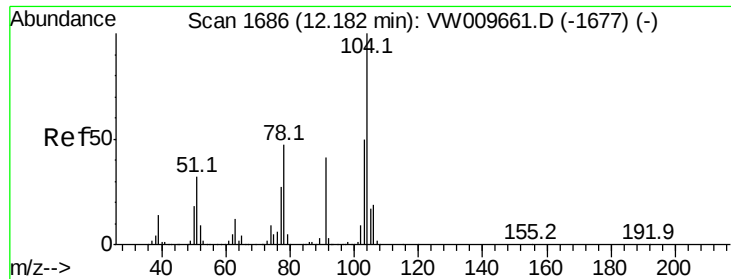
91 209.1 153.9 285.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#56

Styrene

Concen: 2.051 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. 0.00 min

Lab File: VW009659.D

Acq: 03 Apr 2019 11:01

Instrument :

MSVOA\_W

ClientSampleId :

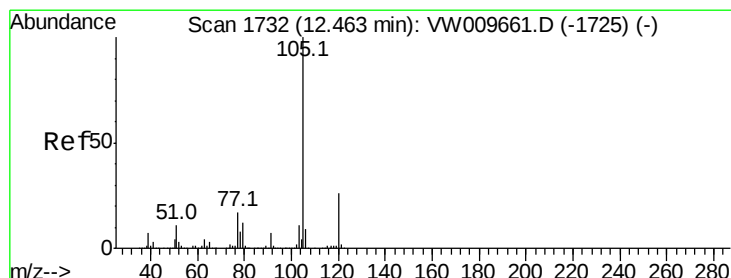
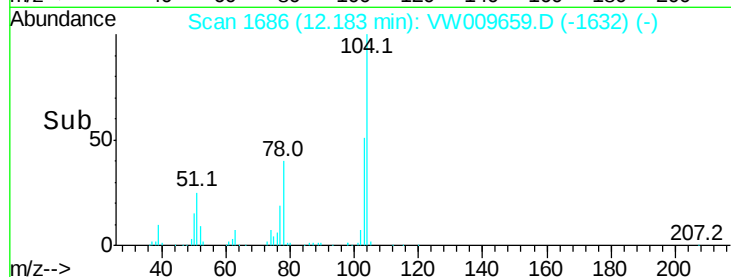
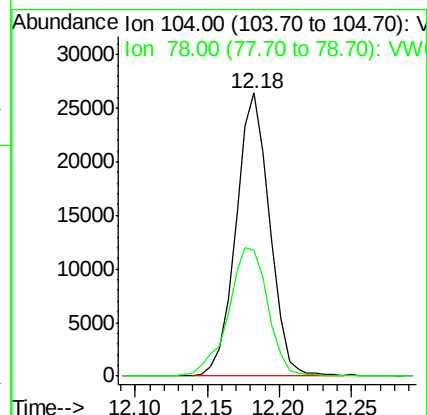
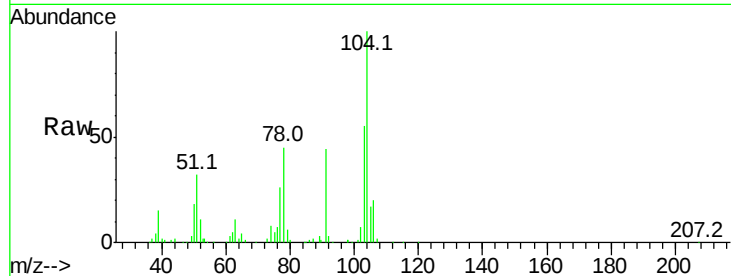
VSTD2.510

Tgt Ion:104 Resp: 42936

Ion Ratio Lower Upper

104 100

78 44.7 32.9 61.1



#57

Isopropylbenzene

Concen: 2.119 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW009659.D

Acq: 03 Apr 2019 11:01

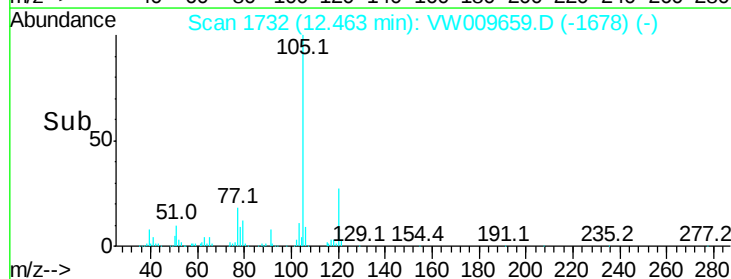
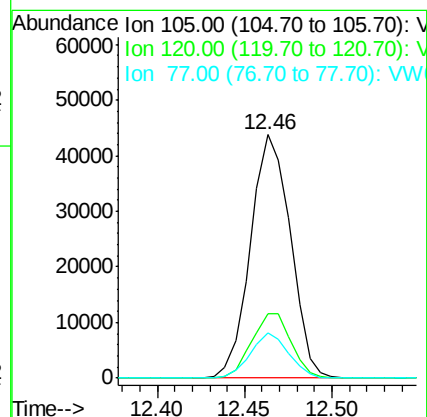
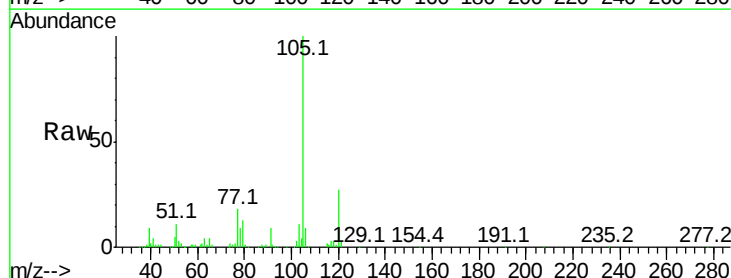
Tgt Ion:105 Resp: 69659

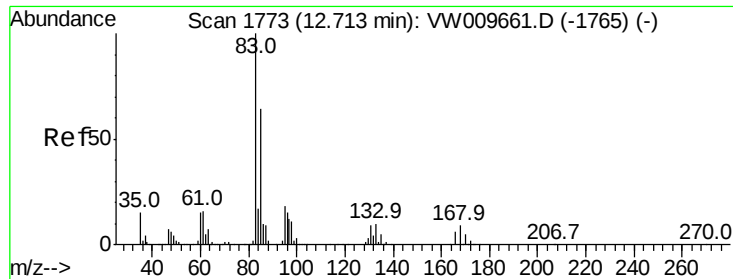
Ion Ratio Lower Upper

105 100

120 26.4 21.0 31.4

77 18.0 13.4 20.2





#58

1,1,2,2-Tetrachloroethane

Concen: 2.252 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW009659.D

Acq: 03 Apr 2019 11:01

Instrument :

MSVOA\_W

ClientSampleId :

VSTD2.510

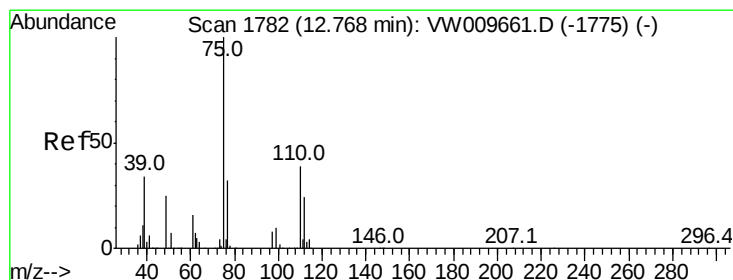
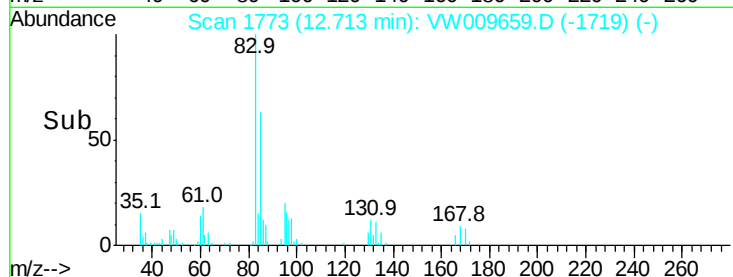
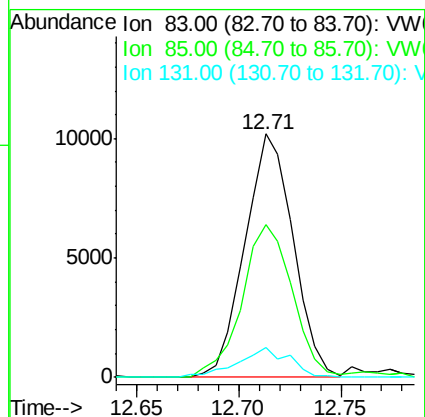
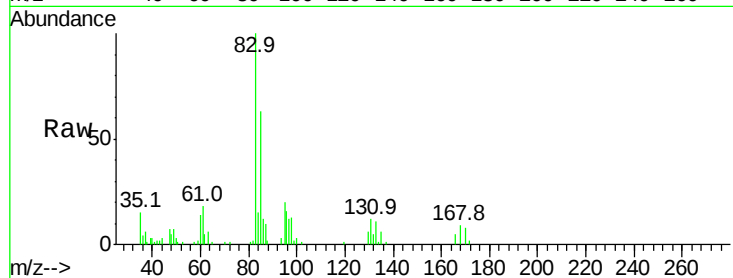
Tgt Ion: 83 Resp: 16756

Ion Ratio Lower Upper

83 100

85 62.7 44.9 83.3

131 12.1 7.2 10.8#



#59

1,2,3-Trichloropropane

Concen: 2.215 ug/L

RT: 12.77 min Scan# 1783

Delta R.T. 0.01 min

Lab File: VW009659.D

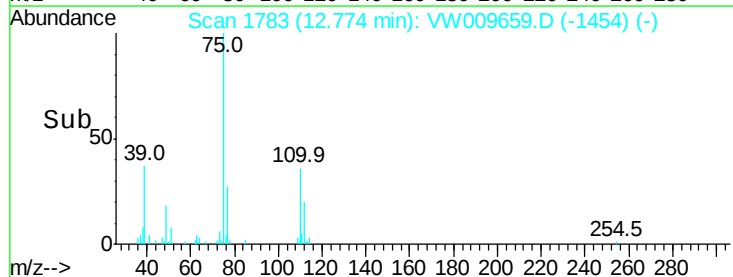
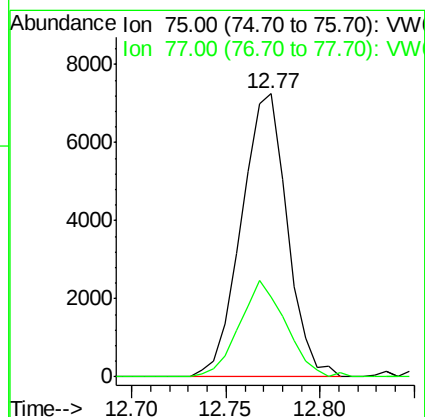
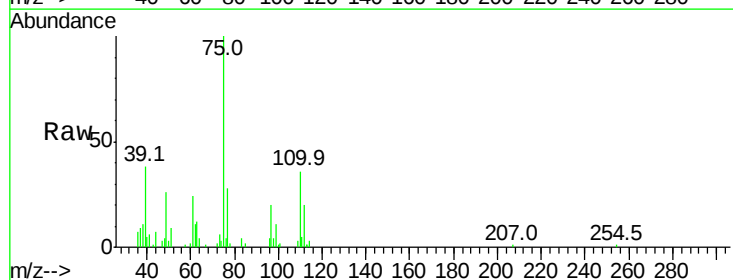
Acq: 03 Apr 2019 11:01

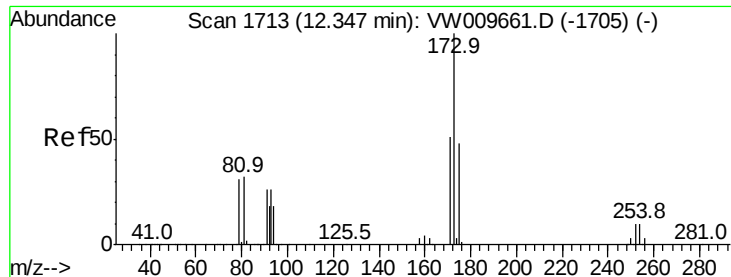
Tgt Ion: 75 Resp: 12230

Ion Ratio Lower Upper

75 100

77 34.1 26.2 39.2

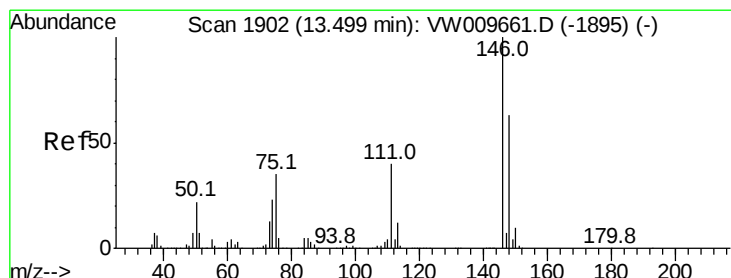
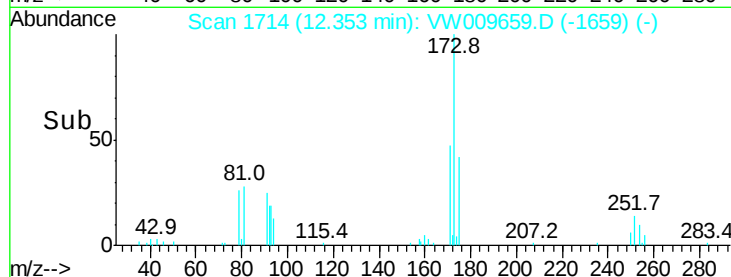
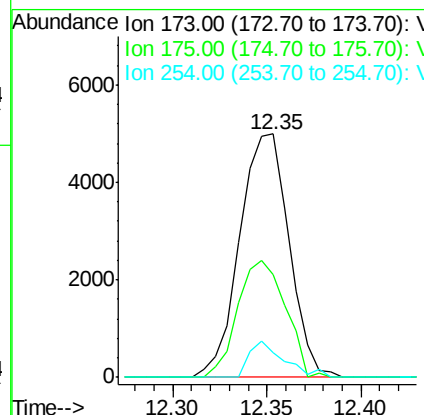
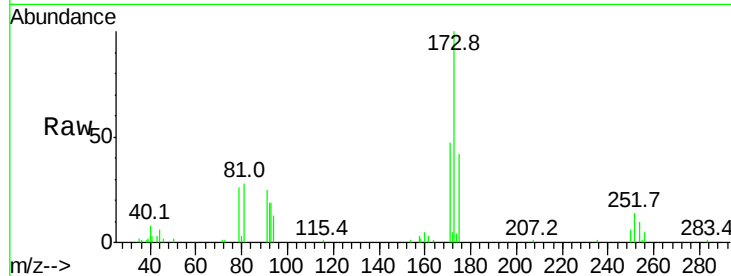




#62  
Bromoform  
Concen: 2.306 ug/L  
RT: 12.35 min Scan# 1714  
Delta R.T. 0.01 min  
Lab File: VW009659.D  
Acq: 03 Apr 2019 11:01

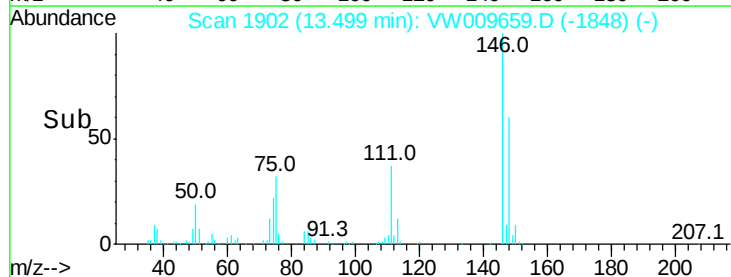
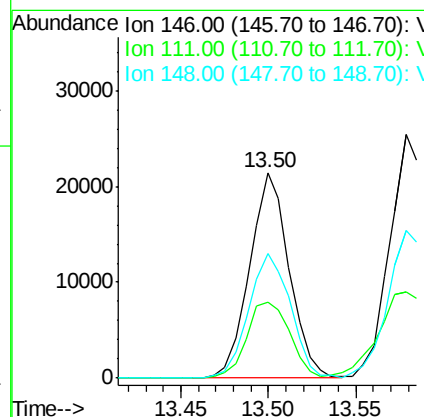
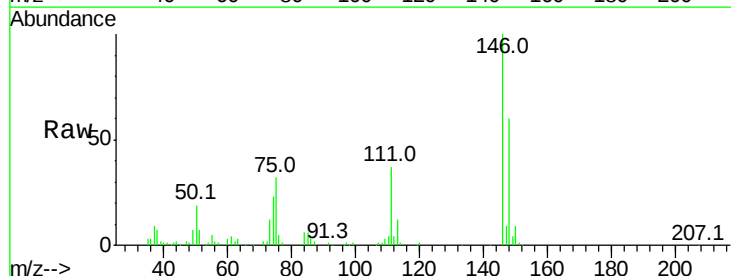
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD2.510

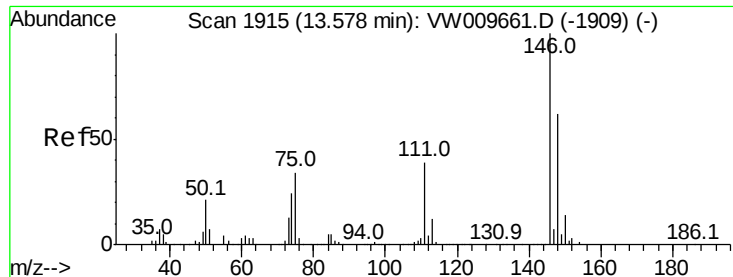
Tgt Ion:173 Resp: 9075  
Ion Ratio Lower Upper  
173 100  
175 46.1 39.4 59.2  
254 10.6 8.5 12.7



#63  
1,3-Dichlorobenzene  
Concen: 2.424 ug/L  
RT: 13.50 min Scan# 1902  
Delta R.T. 0.00 min  
Lab File: VW009659.D  
Acq: 03 Apr 2019 11:01

Tgt Ion:146 Resp: 33640  
Ion Ratio Lower Upper  
146 100  
111 37.0 28.1 52.3  
148 60.3 44.3 82.3





#64

1,4-Dichlorobenzene

Concen: 2.700 ug/L

RT: 13.58 min Scan# 1915

Delta R.T. 0.00 min

Lab File: VW009659.D

Acq: 03 Apr 2019 11:01

Instrument :

MSVOA\_W

ClientSampleId :

VSTD2.510

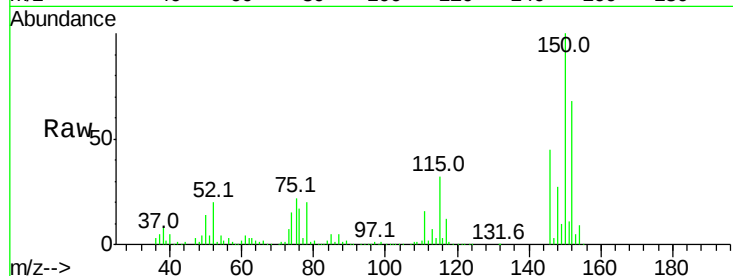
Tgt Ion:146 Resp: 38747

Ion Ratio Lower Upper

146 100

111 35.6 27.4 50.8

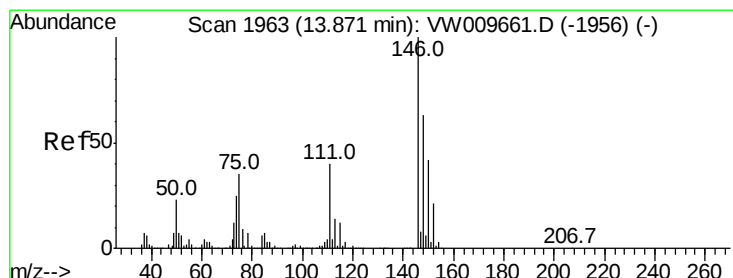
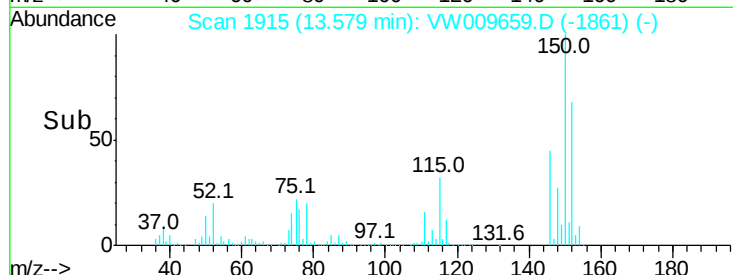
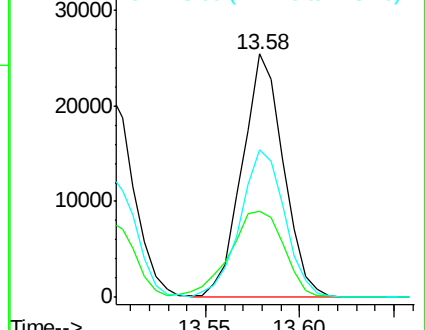
148 60.7 43.8 81.3



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#65

1,2-Dichlorobenzene

Concen: 2.447 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. 0.00 min

Lab File: VW009659.D

Acq: 03 Apr 2019 11:01

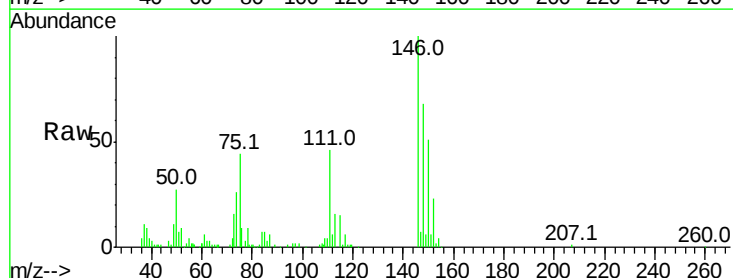
Tgt Ion:146 Resp: 32388

Ion Ratio Lower Upper

146 100

111 46.4 32.4 48.6

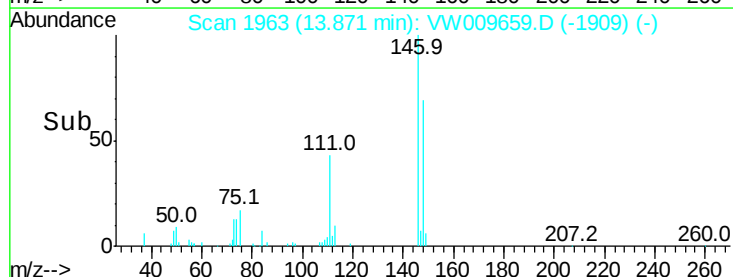
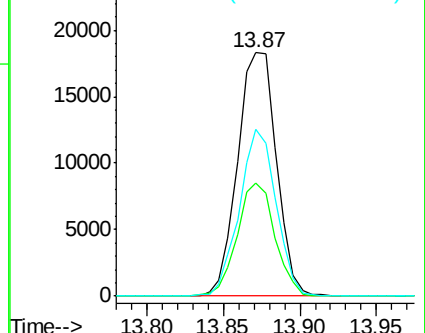
148 68.5 50.5 75.7

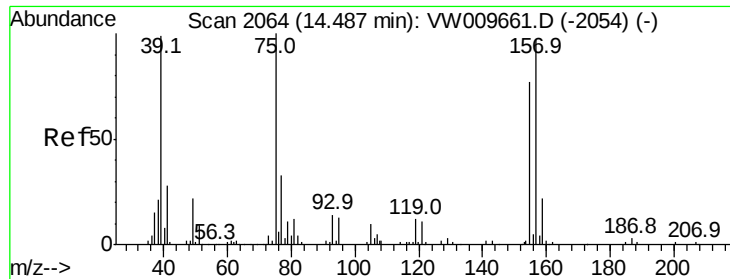


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

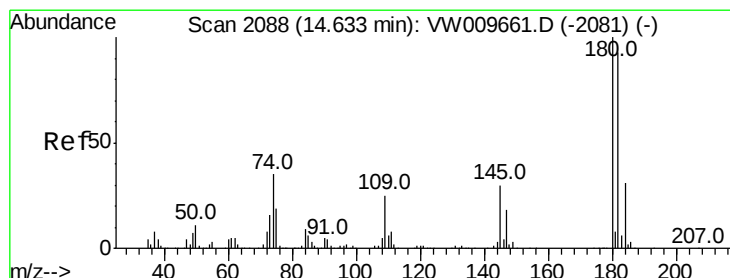
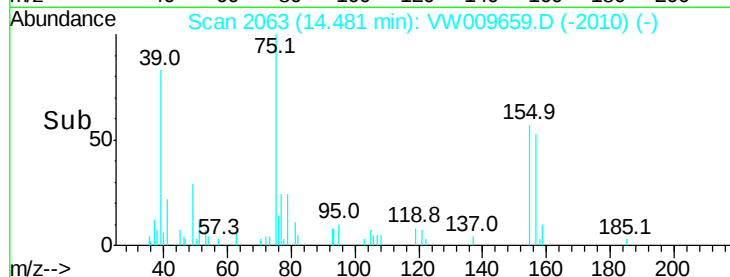
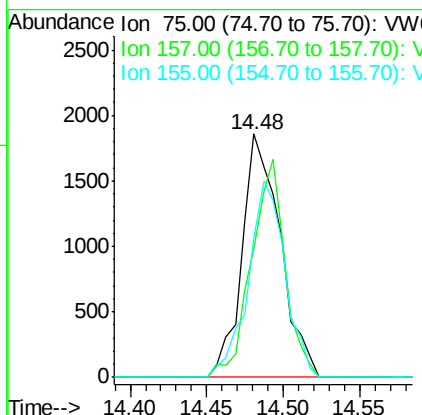
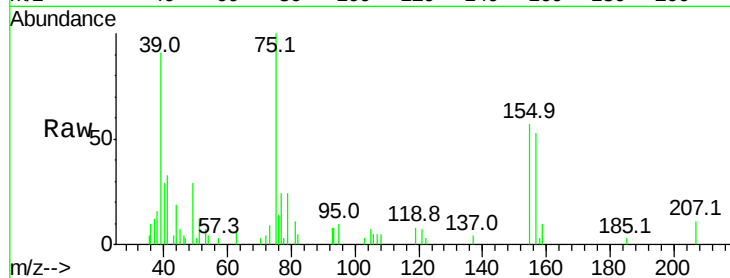




#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 2.488 ug/L  
 RT: 14.48 min Scan# 2063  
 Delta R.T. -0.01 min  
 Lab File: VW009659.D  
 Acq: 03 Apr 2019 11:01

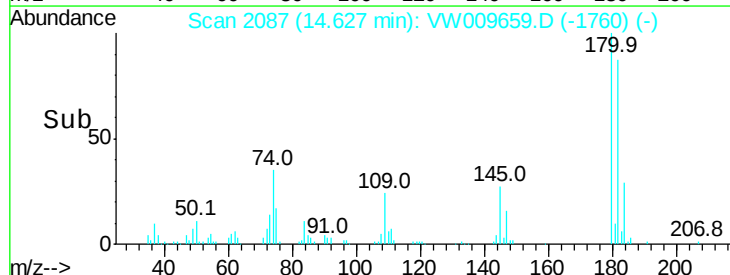
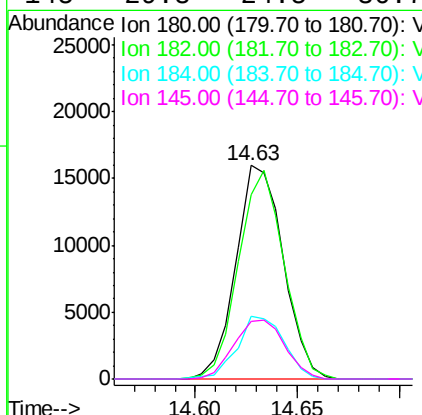
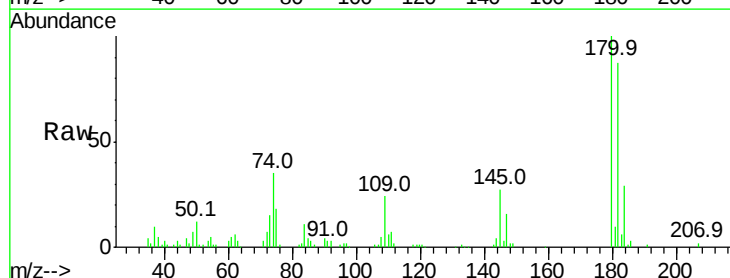
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD2.510

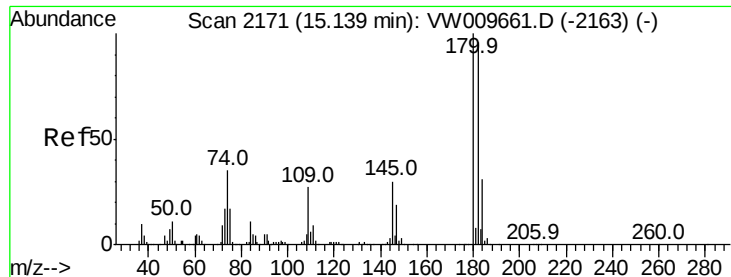
Tgt Ion: 75 Resp: 3227  
 Ion Ratio Lower Upper  
 75 100  
 157 52.8 77.2 115.8#  
 155 56.9 61.9 92.9#



#67  
 1,3,5-Trichlorobenzene  
 Concen: 2.376 ug/L  
 RT: 14.63 min Scan# 2087  
 Delta R.T. -0.01 min  
 Lab File: VW009659.D  
 Acq: 03 Apr 2019 11:01

Tgt Ion: 180 Resp: 25716  
 Ion Ratio Lower Upper  
 180 100  
 182 94.3 75.8 113.6  
 184 29.2 24.7 37.1  
 145 29.8 24.5 36.7





#68

1,2,4-trichlorobenzene

Concen: 2.050 ug/L

RT: 15.14 min Scan# 2171

Delta R.T. 0.00 min

Lab File: VW009659.D

Acq: 03 Apr 2019 11:01

Instrument :

MSVOA\_W

ClientSampleId :

VSTD2.510

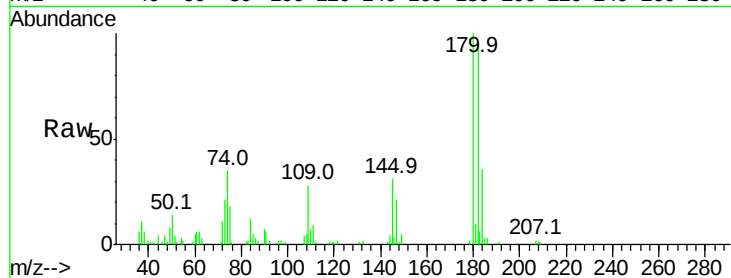
Tgt Ion:180 Resp: 18638

Ion Ratio Lower Upper

180 100

182 99.6 75.8 113.8

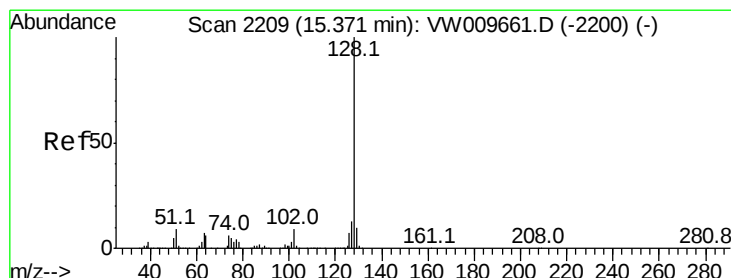
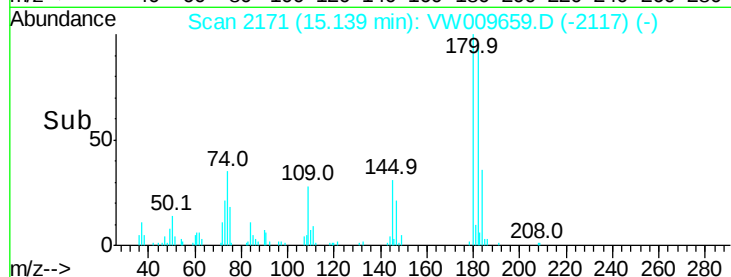
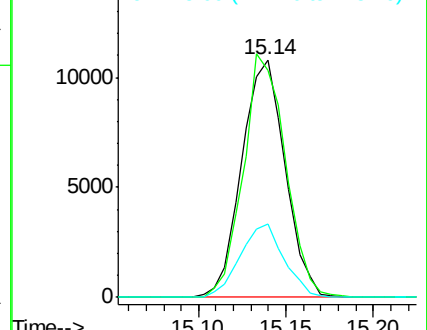
145 31.2 24.3 36.5



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: 1.531 ug/L

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW009659.D

Acq: 03 Apr 2019 11:01

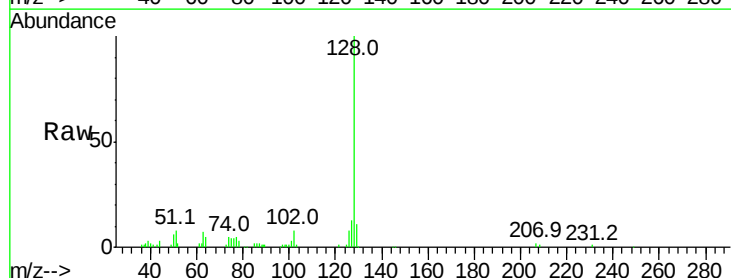
Tgt Ion:128 Resp: 28865

Ion Ratio Lower Upper

128 100

129 11.3 8.5 12.7

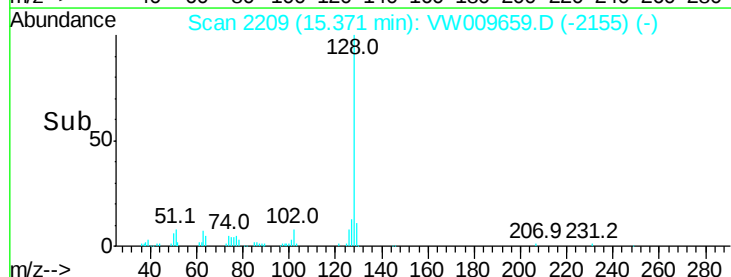
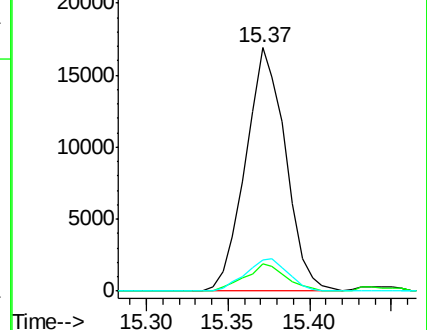
127 14.0 10.8 16.2

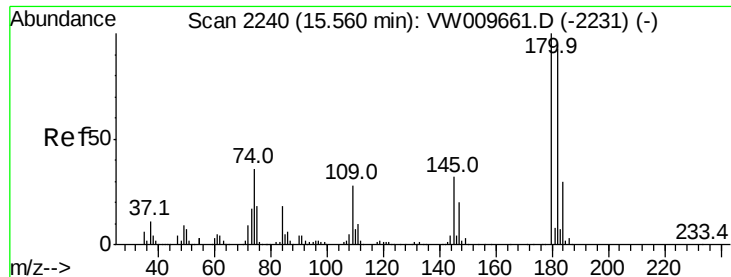


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

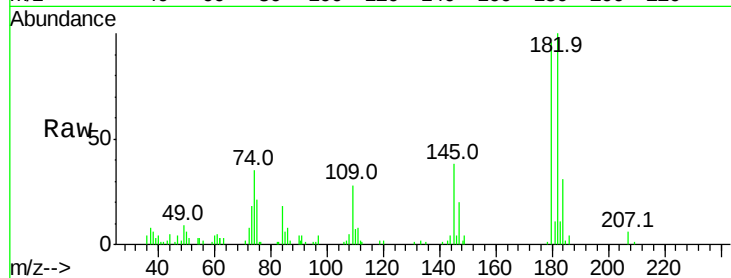




#70  
 1,2,3-Trichlorobenzene  
 Concen: 1.969 ug/L  
 RT: 15.56 min Scan# 2240  
 Delta R.T. 0.00 min  
 Lab File: VW009659.D  
 Acq: 03 Apr 2019 11:01

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD2.510

Tgt Ion:180 Resp: 16771  
 Ion Ratio Lower Upper  
 180 100  
 182 102.7 75.0 112.4  
 145 35.0 25.8 38.6



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

