

Data File : VW015358.D  
Acq On : 28 Apr 2020 13:11  
Operator : SY/VA  
Sample : VSTD2.5  
Misc : 5.00G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD2.501

Quant Time: Apr 28 14:30:08 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM042820S.M  
Quant Title : VOC Analysis  
QLast Update : Tue Apr 28 14:27:29 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 362503   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 320918   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 161877   | 25.00 | ug/L  | 0.00     |

System Monitoring Compounds

|                                |       |     |       |      |      |      |
|--------------------------------|-------|-----|-------|------|------|------|
| 4) Vinyl Chloride-d3           | 2.36  | 65  | 2273  | 0.57 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 2.89  | 69  | 8985  | 2.47 | ug/L | 0.00 |
| 10) 1,1-Dichloroethene-d2      | 4.01  | 63  | 16656 | 2.21 | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 7.09  | 46  | 4040  | 4.68 | ug/L | 0.00 |
| 24) Chloroform-d               | 7.65  | 84  | 21958 | 3.35 | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 8.30  | 65  | 11101 | 2.62 | ug/L | 0.00 |
| 29) Benzene-d6                 | 8.27  | 84  | 42951 | 3.00 | ug/L | 0.00 |
| 33) 1,2-Dichloropropane-d6     | 9.27  | 67  | 11976 | 3.00 | ug/L | 0.00 |
| 37) Toluene-d8                 | 10.32 | 98  | 43450 | 2.87 | ug/L | 0.00 |
| 38) trans-1,3-Dichloropropene- | 10.57 | 79  | 6008  | 2.87 | ug/L | 0.00 |
| 39) 2-Hexanone-d5              | 10.93 | 63  | 3979  | 5.32 | ug/L | 0.00 |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69 | 84  | 9254  | 2.75 | ug/L | 0.00 |
| 61) 1,2-Dichlorobenzene-d4     | 13.85 | 152 | 16323 | 2.89 | ug/L | 0.00 |

Target Compounds

|                                |       |     |       |            | Qvalue |
|--------------------------------|-------|-----|-------|------------|--------|
| 2) Dichlorodifluoromethane     | 2.01  | 85  | 8196  | 1.608 ug/L | 98     |
| 3) Chloromethane               | 2.21  | 50  | 6080  | 1.406 ug/L | 98     |
| 5) Vinyl chloride              | 2.36  | 62  | 2124  | 0.420 ug/L | 96     |
| 6) Bromomethane                | 2.78  | 94  | 8041  | 2.260 ug/L | 99     |
| 8) Chloroethane                | 2.93  | 64  | 6142  | 1.902 ug/L | 98     |
| 9) Trichlorofluoromethane      | 3.26  | 101 | 8765  | 1.139 ug/L | 99     |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.06  | 101 | 10244 | 2.159 ug/L | # 89   |
| 12) 1,1-Dichloroethene         | 4.04  | 96  | 8494  | 1.989 ug/L | 93     |
| 13) Acetone                    | 4.13  | 43  | 4945  | 6.419 ug/L | 63     |
| 14) Carbon disulfide           | 4.37  | 76  | 18304 | 1.381 ug/L | 99     |
| 15) Methyl Acetate             | 4.67  | 43  | 2897  | 1.954 ug/L | 98     |
| 16) Methylene chloride         | 4.91  | 84  | 15468 | 3.291 ug/L | 98     |
| 17) Methyl tert-butyl Ether    | 5.43  | 73  | 13737 | 1.344 ug/L | 94     |
| 18) trans-1,2-Dichloroethene   | 5.42  | 96  | 10665 | 2.234 ug/L | 98     |
| 19) 1,1-Dichloroethane         | 6.21  | 63  | 16405 | 2.242 ug/L | 98     |
| 21) 2-Butanone                 | 7.18  | 43  | 6650  | 6.222 ug/L | 85     |
| 22) cis-1,2-Dichloroethene     | 7.16  | 96  | 11125 | 2.223 ug/L | 89     |
| 23) Bromochloromethane         | 7.51  | 128 | 5014  | 2.160 ug/L | 97     |
| 25) Chloroform                 | 7.68  | 83  | 18204 | 1.888 ug/L | 100    |
| 27) 1,2-Dichloroethane         | 8.40  | 62  | 11182 | 2.146 ug/L | 96     |
| 30) Cyclohexane                | 7.95  | 56  | 14781 | 2.312 ug/L | 100    |
| 31) 1,1,1-Trichloroethane      | 7.87  | 97  | 16673 | 2.230 ug/L | 98     |
| 32) Carbon tetrachloride       | 8.07  | 117 | 15281 | 2.288 ug/L | 98     |
| 34) Benzene                    | 8.32  | 78  | 39771 | 2.476 ug/L | 100    |
| 35) Trichloroethene            | 9.09  | 95  | 11299 | 2.424 ug/L | 99     |
| 36) Methylcyclohexane          | 9.34  | 83  | 19086 | 2.414 ug/L | 98     |
| 40) 1,2-Dichloropropane        | 9.37  | 63  | 8929  | 2.443 ug/L | 97     |
| 41) Bromodichloromethane       | 9.64  | 83  | 13346 | 2.357 ug/L | 100    |
| 42) cis-1,3-Dichloropropene    | 10.07 | 75  | 14930 | 2.284 ug/L | 93     |
| 43) 4-Methyl-2-pentanone       | 10.21 | 43  | 16833 | 8.361 ug/L | 98     |

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ALS Vial : 1 Sample Multiplier: 1

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ClientSampleId :  
VSTD2.501

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM042820S.M  
Quant Title : VOC Analysis  
QLast Update : Tue Apr 28 14:27:29 2020  
Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 44) Toluene                    | 10.38 | 91   | 46173    | 2.404 | ug/L  | 99       |
| 45) trans-1,3-Dichloropropene  | 10.60 | 75   | 13111    | 2.274 | ug/L  | 95       |
| 46) 1,1,2-Trichloroethane      | 10.79 | 97   | 7378     | 2.359 | ug/L  | 97       |
| 47) Tetrachloroethene          | 10.86 | 164  | 10888    | 2.486 | ug/L  | 98       |
| 49) 2-Hexanone                 | 10.97 | 43   | 6338     | 4.288 | ug/L  | 96       |
| 50) Dibromochloromethane       | 11.13 | 129  | 9295     | 2.230 | ug/L  | 98       |
| 51) 1,2-Dibromoethane          | 11.24 | 107  | 7269     | 2.328 | ug/L  | 97       |
| 52) Chlorobenzene              | 11.66 | 112  | 30015    | 2.323 | ug/L  | 97       |
| 53) Ethylbenzene               | 11.73 | 91   | 52837    | 2.343 | ug/L  | 97       |
| 54) m,p-Xylene                 | 11.84 | 106  | 20532    | 2.270 | ug/L  | 95       |
| 55) o-xylene                   | 12.16 | 106  | 19354    | 2.258 | ug/L  | 94       |
| 56) Styrene                    | 12.18 | 104  | 31871    | 2.186 | ug/L  | 94       |
| 57) Isopropylbenzene           | 12.46 | 105  | 52177    | 2.206 | ug/L  | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 8050     | 2.344 | ug/L  | 95       |
| 59) 1,2,3-Trichloropropane     | 12.77 | 75   | 5944     | 2.281 | ug/L  | 90       |
| 62) Bromoform                  | 12.35 | 173  | 5692     | 2.270 | ug/L  | 99       |
| 63) 1,3-Dichlorobenzene        | 13.50 | 146  | 24745    | 2.360 | ug/L  | 95       |
| 64) 1,4-Dichlorobenzene        | 13.58 | 146  | 24693    | 2.386 | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene        | 13.87 | 146  | 21426    | 2.284 | ug/L  | 95       |
| 66) 1,2-Dibromo-3-chloropropan | 14.48 | 75   | 1260     | 2.020 | ug/L  | 95       |
| 67) 1,3,5-Trichlorobenzene     | 14.63 | 180  | 18504    | 2.366 | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene     | 15.13 | 180  | 14687    | 2.356 | ug/L  | 99       |
| 69) Naphthalene                | 15.36 | 128  | 23932    | 2.275 | ug/L  | 98       |
| 70) 1,2,3-Trichlorobenzene     | 15.55 | 180  | 12496    | 2.329 | ug/L  | 99       |

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

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```
ALS Vial      : 1      Sample Multiplier: 1
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**Instrument :**  
MSVOA\_W  
**ClientSampleId :**  
VSTD2.501

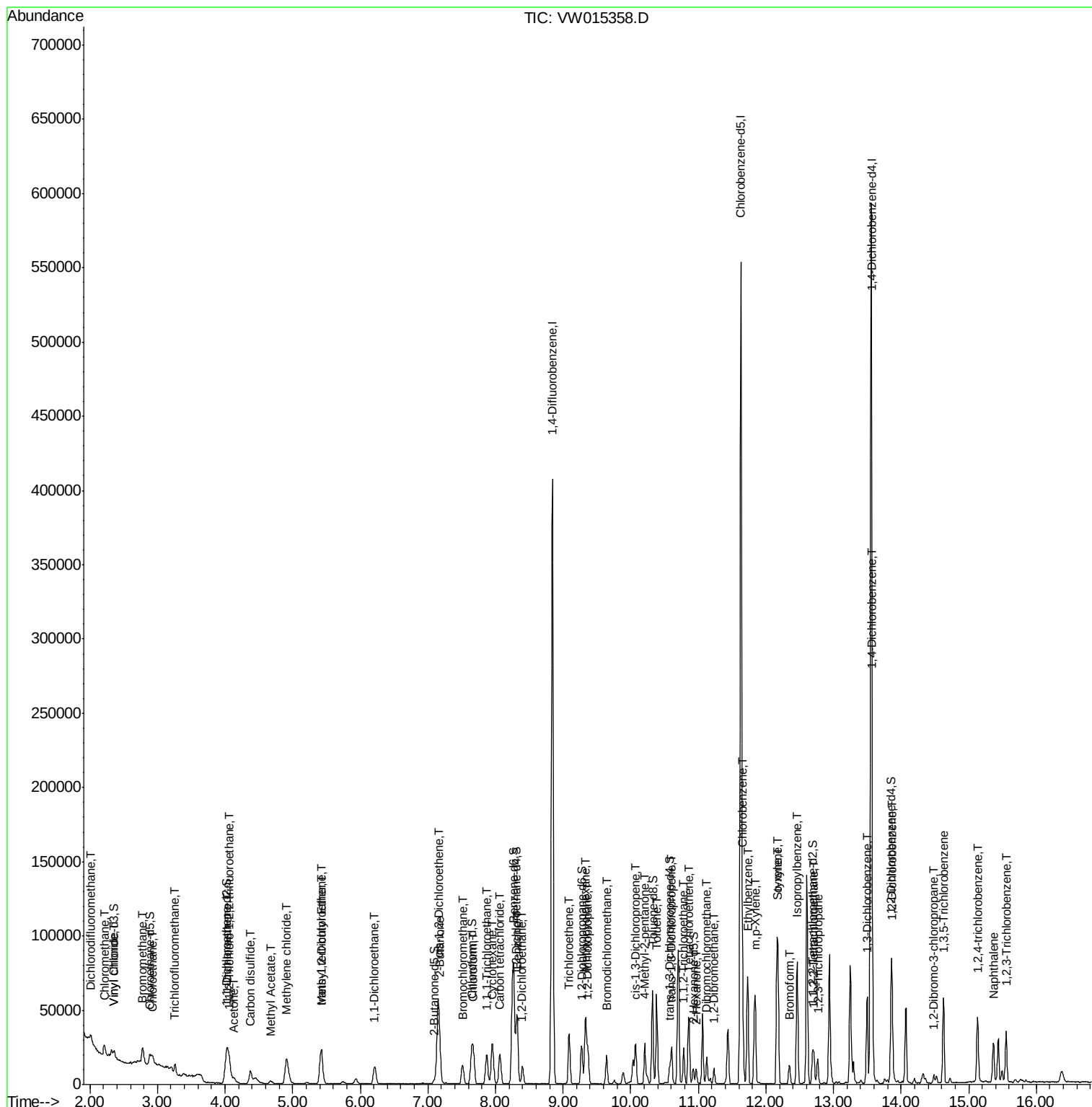
Quant Time: Apr 28 14:30:08 2020

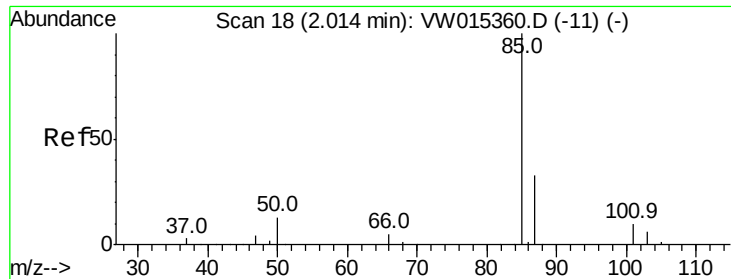
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM042820S.M

Quant Title : VOC Analysis

QLast Update : Tue Apr 28 14:27:29 2020

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 1.608 ug/L

RT: 2.01 min Scan# 18

Delta R.T. -0.00 min

Lab File: VW015358.D

Acq: 28 Apr 2020 13:11

Instrument :

MSVOA\_W

ClientSampleId :

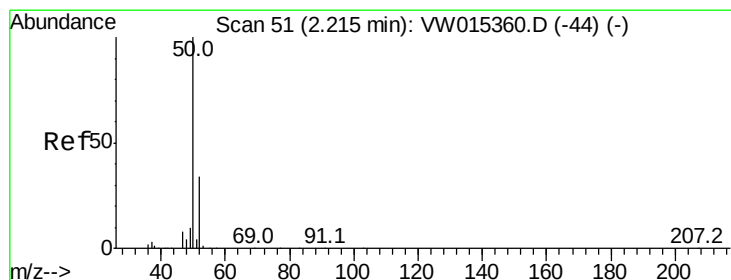
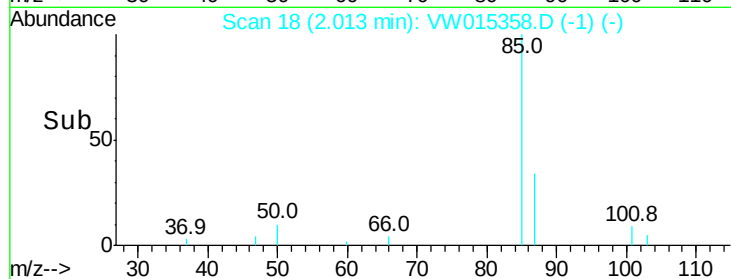
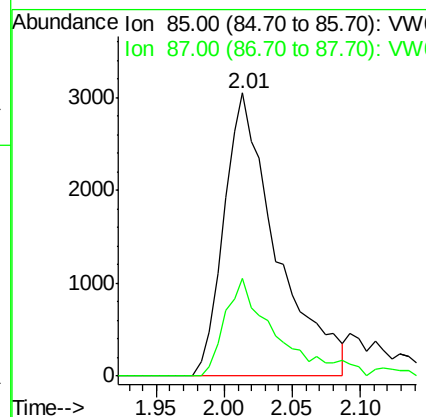
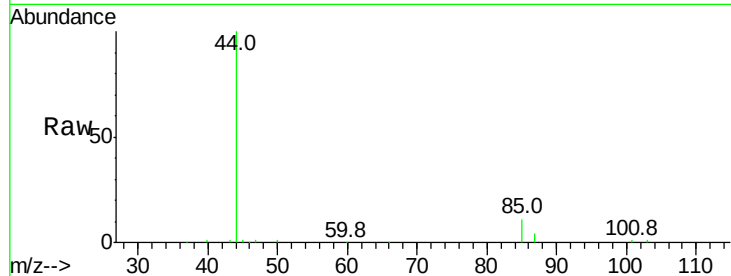
VSTD2.501

Tgt Ion: 85 Resp: 8196

Ion Ratio Lower Upper

85 100

87 30.9 22.5 41.9



#3

Chloromethane

Concen: 1.406 ug/L

RT: 2.21 min Scan# 51

Delta R.T. -0.00 min

Lab File: VW015358.D

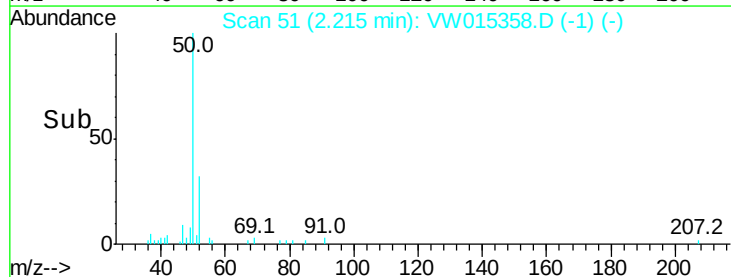
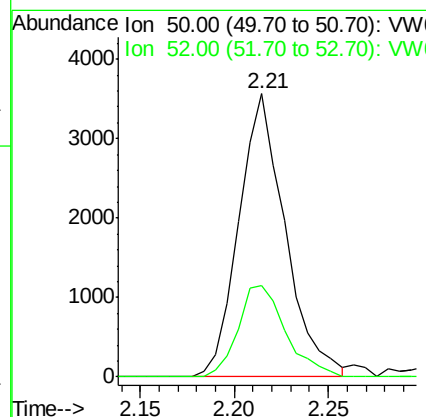
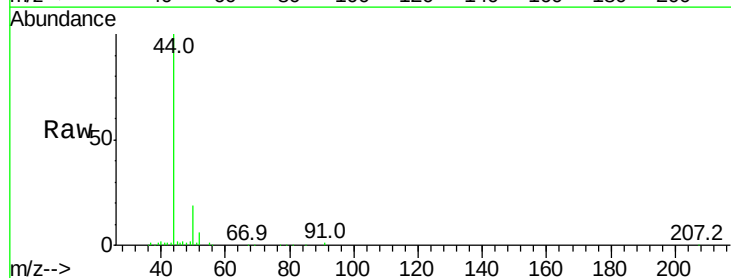
Acq: 28 Apr 2020 13:11

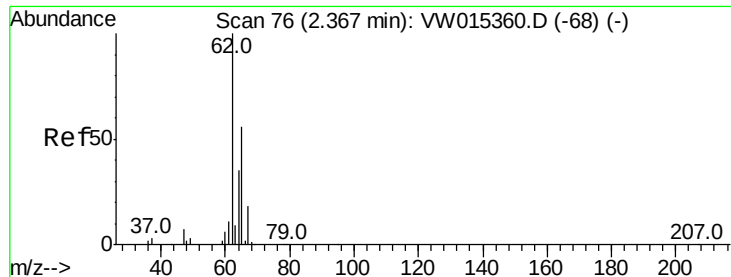
Tgt Ion: 50 Resp: 6080

Ion Ratio Lower Upper

50 100

52 32.4 23.6 43.8





#5

Vinyl chloride

Concen: 0.420 ug/L

RT: 2.36 min Scan# 75

Delta R.T. -0.01 min

Lab File: VW015358.D

Acq: 28 Apr 2020 13:11

Instrument :

MSVOA\_W

ClientSampleId :

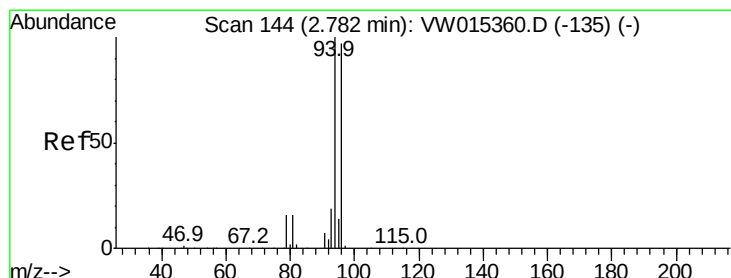
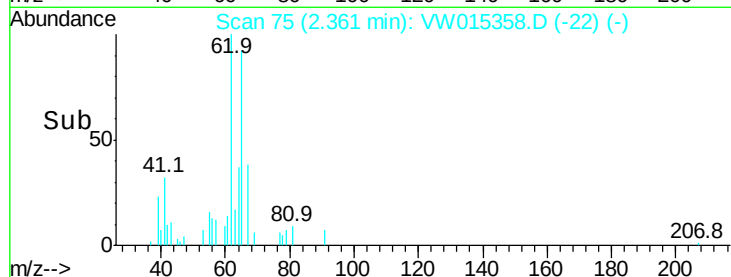
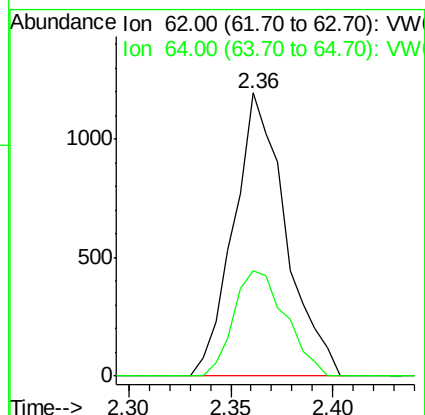
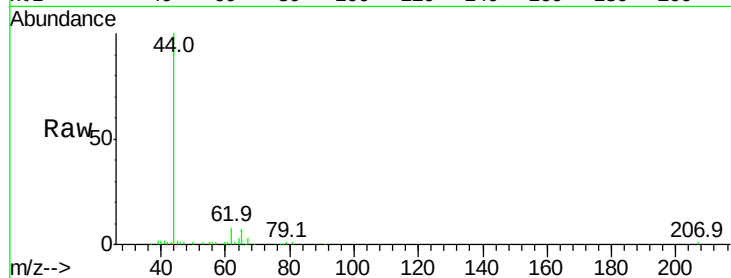
VSTD2.501

Tgt Ion: 62 Resp: 2124

Ion Ratio Lower Upper

62 100

64 37.4 24.6 45.8



#6

Bromomethane

Concen: 2.260 ug/L

RT: 2.78 min Scan# 144

Delta R.T. -0.00 min

Lab File: VW015358.D

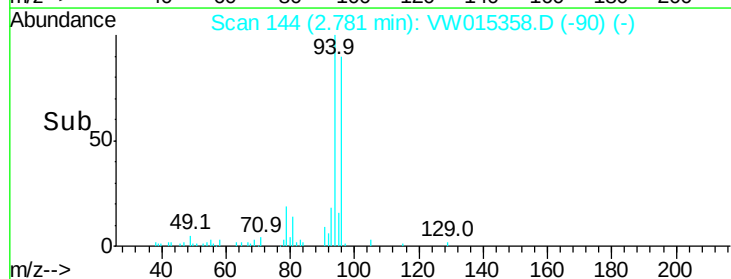
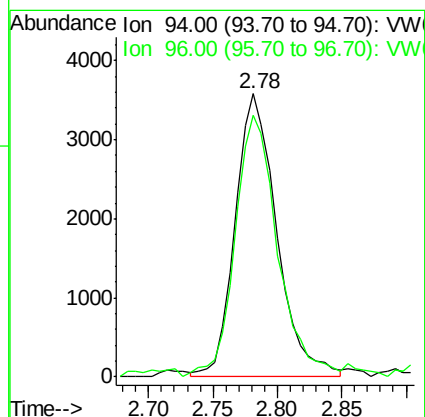
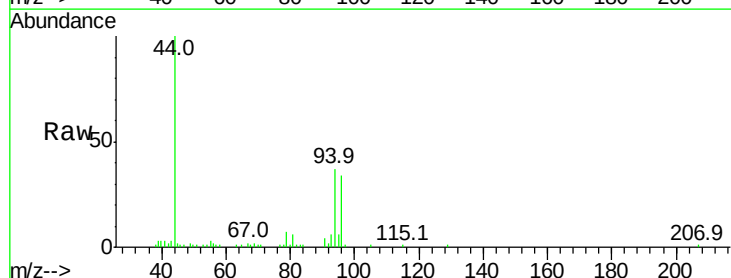
Acq: 28 Apr 2020 13:11

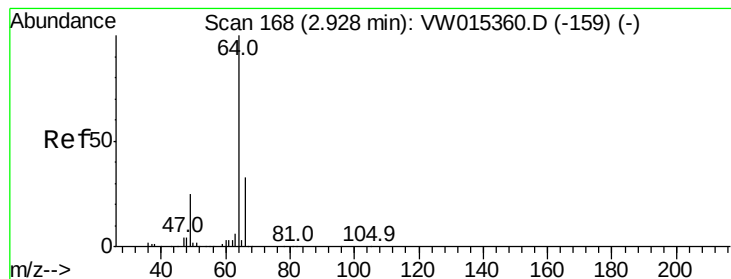
Tgt Ion: 94 Resp: 8041

Ion Ratio Lower Upper

94 100

96 94.3 9.5 180.1





#8

Chloroethane

Concen: 1.902 ug/L

RT: 2.93 min Scan# 169

Delta R.T. 0.01 min

Lab File: VW015358.D

Acq: 28 Apr 2020 13:11

Instrument :

MSVOA\_W

ClientSampleId :

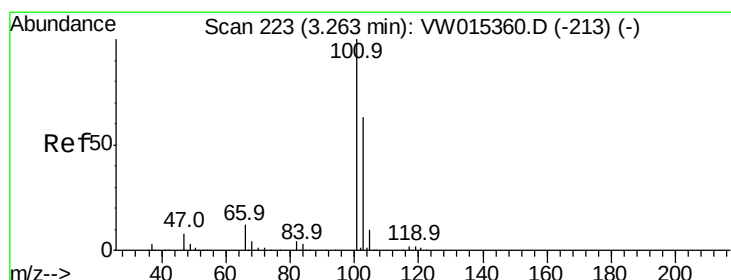
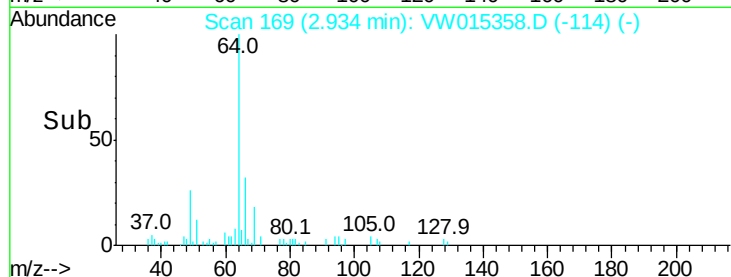
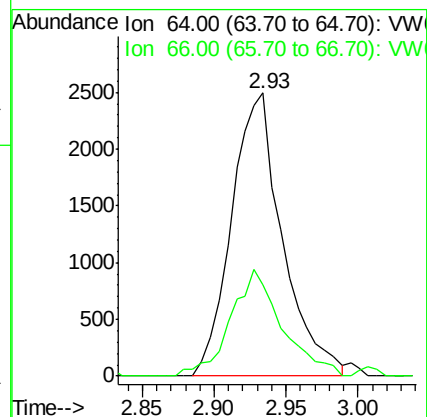
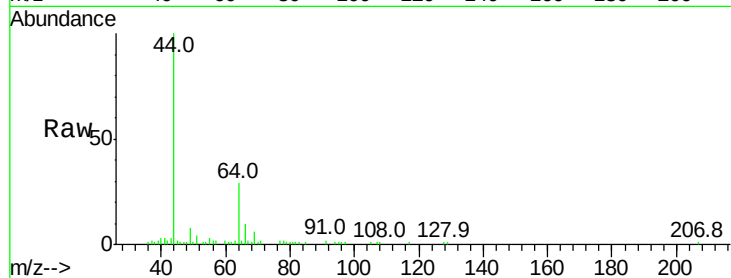
VSTD2.501

Tgt Ion: 64 Resp: 6142

Ion Ratio Lower Upper

64 100

66 32.5 23.5 43.7



#9

Trichlorofluoromethane

Concen: 1.139 ug/L

RT: 3.26 min Scan# 222

Delta R.T. -0.01 min

Lab File: VW015358.D

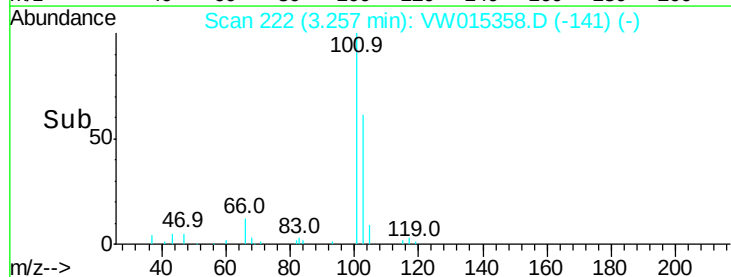
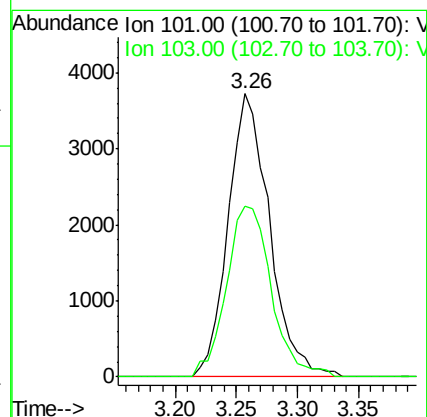
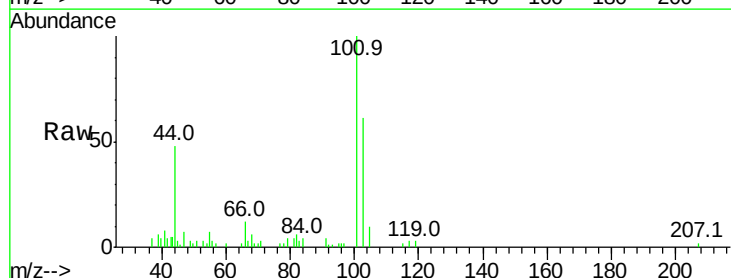
Acq: 28 Apr 2020 13:11

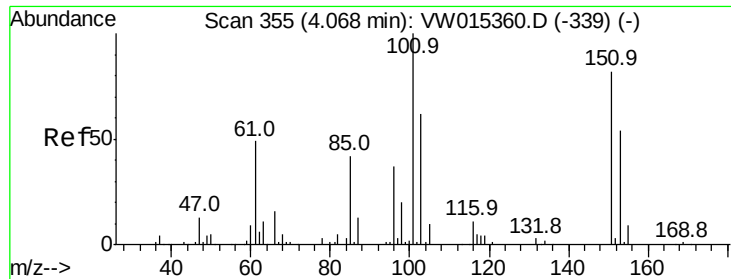
Tgt Ion: 101 Resp: 8765

Ion Ratio Lower Upper

101 100

103 64.3 45.4 84.4





#11

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

Concen: 2.159 ug/L

RT: 4.06 min Scan# 354

Delta R.T. -0.01 min

Lab File: VW015358.D

Acq: 28 Apr 2020 13:11

Instrument :

MSVOA\_W

ClientSampleId :

VSTD2.501

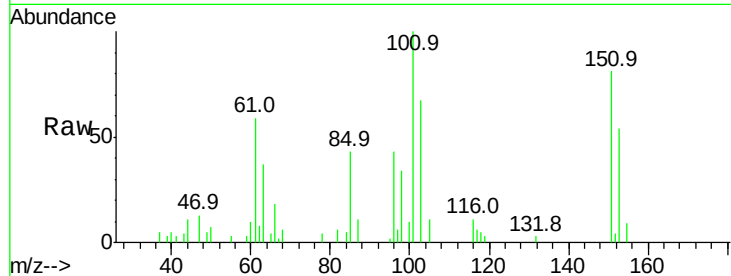
Tgt Ion:101 Resp: 10244

Ion Ratio Lower Upper

101 100

85 27.6 32.5 48.7#

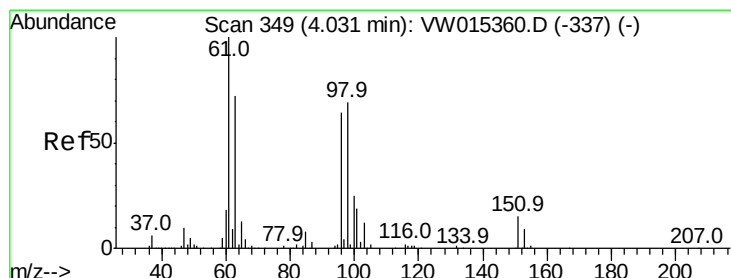
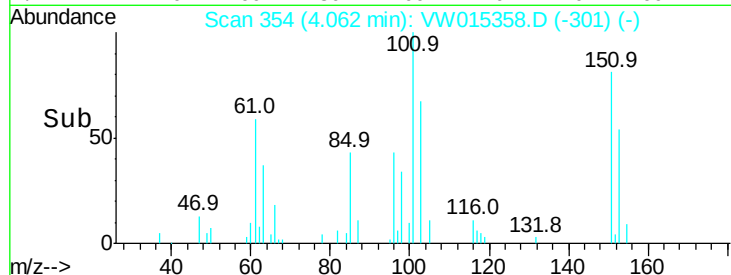
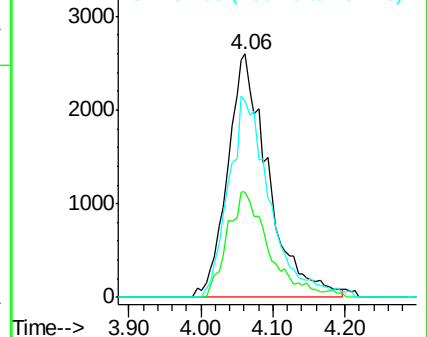
151 80.0 68.2 102.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VW

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 1.989 ug/L

RT: 4.04 min Scan# 350

Delta R.T. 0.01 min

Lab File: VW015358.D

Acq: 28 Apr 2020 13:11

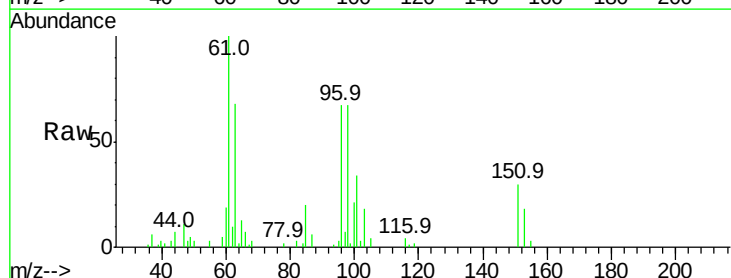
Tgt Ion: 96 Resp: 8494

Ion Ratio Lower Upper

96 100

61 149.0 109.1 202.7

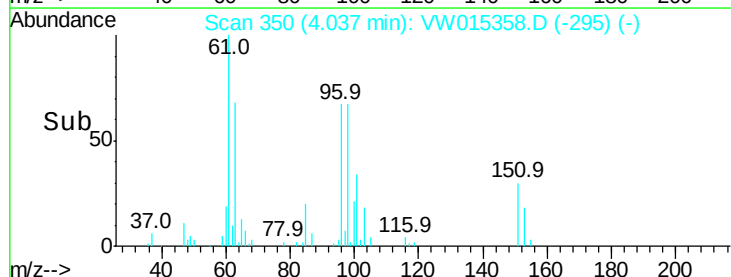
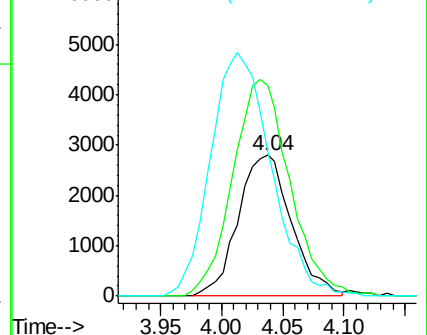
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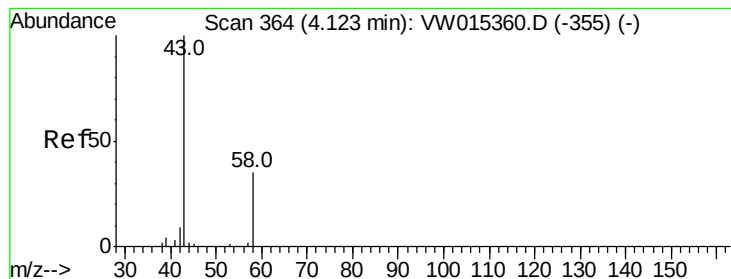


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 6.419 ug/L

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW015358.D

Acq: 28 Apr 2020 13:11

Instrument :

MSVOA\_W

ClientSampleId :

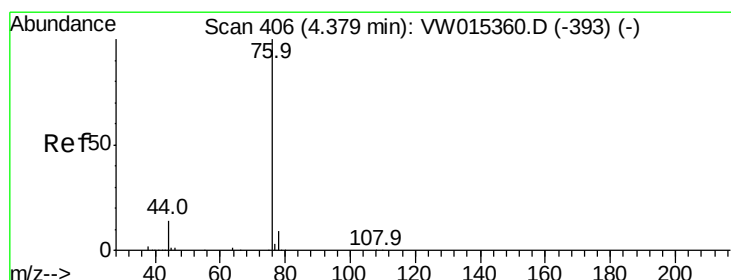
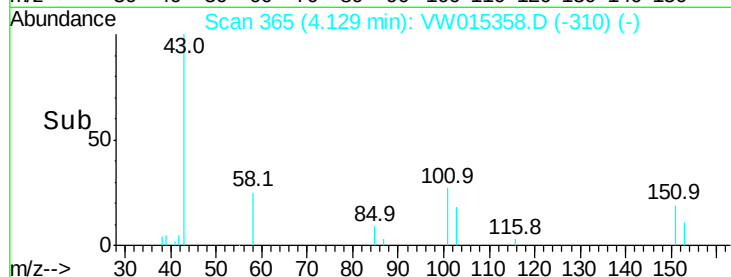
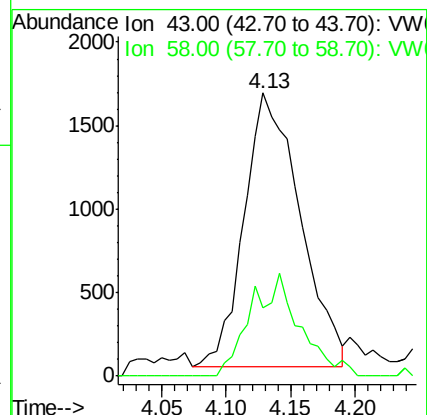
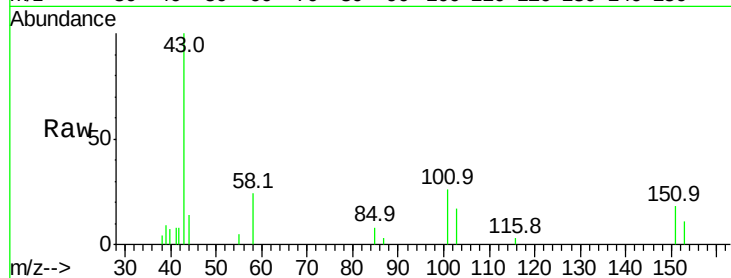
VSTD2.501

Tgt Ion: 43 Resp: 4945

Ion Ratio Lower Upper

43 100

58 12.6 0.0 68.0



#14

Carbon disulfide

Concen: 1.381 ug/L

RT: 4.37 min Scan# 405

Delta R.T. -0.01 min

Lab File: VW015358.D

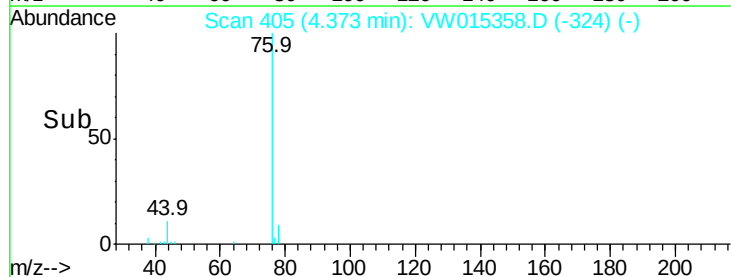
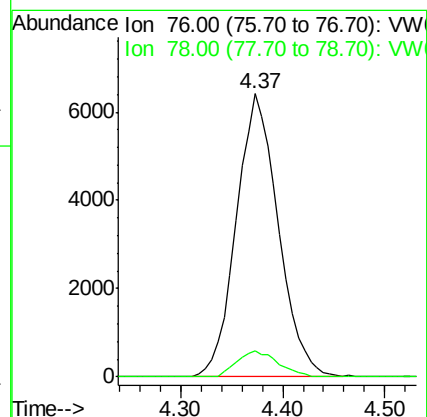
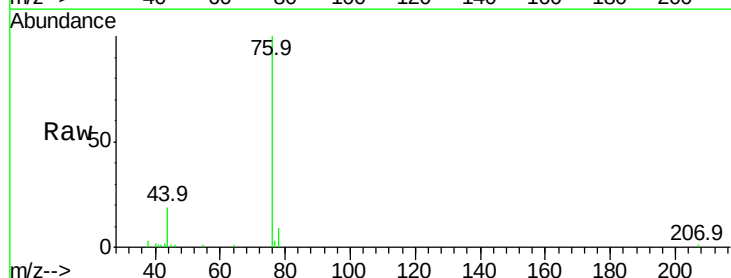
Acq: 28 Apr 2020 13:11

Tgt Ion: 76 Resp: 18304

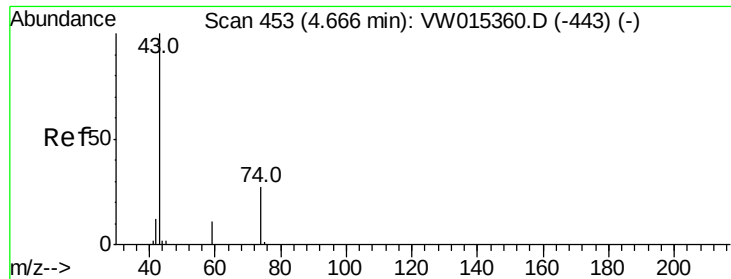
Ion Ratio Lower Upper

76 100

78 9.3 7.2 10.8



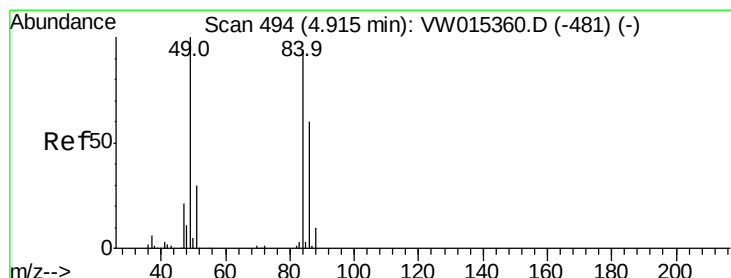
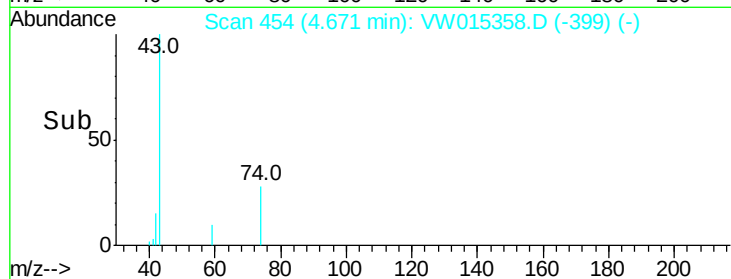
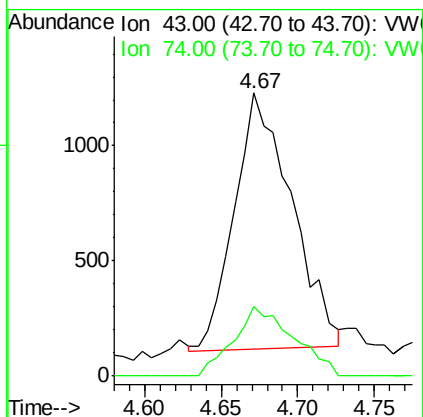
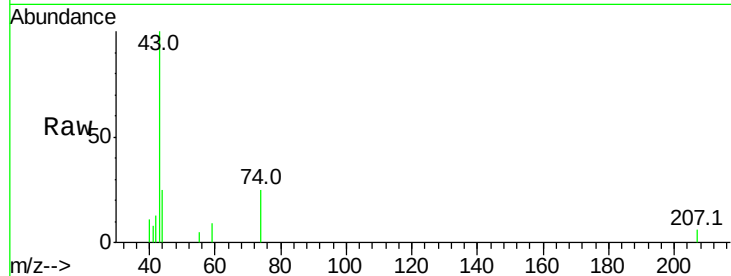




#15  
Methyl Acetate  
Concen: 1.954 ug/L  
RT: 4.67 min Scan# 454  
Delta R.T. 0.01 min  
Lab File: VW015358.D  
Acq: 28 Apr 2020 13:11

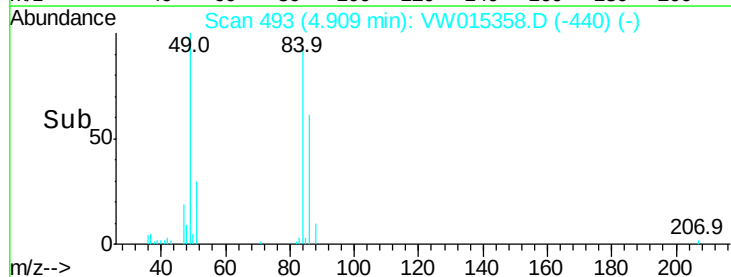
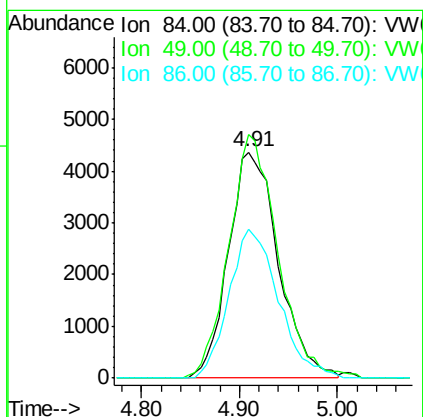
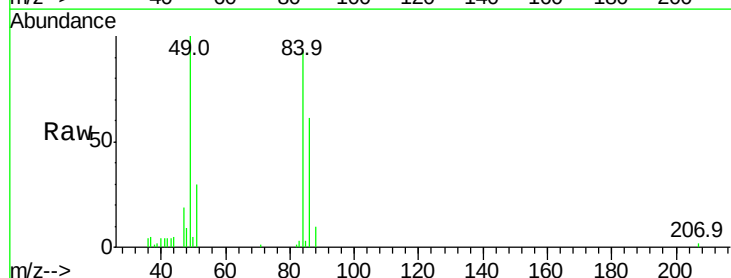
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD2.501

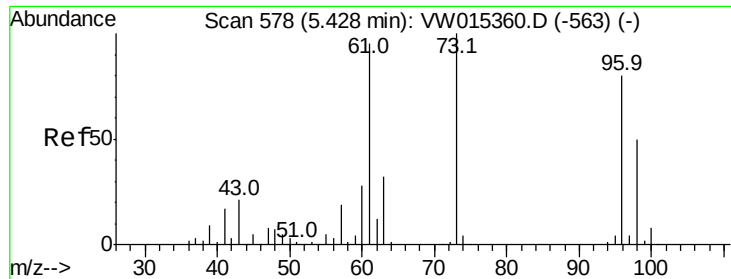
Tgt Ion: 43 Resp: 2897  
Ion Ratio Lower Upper  
43 100  
74 28.3 23.5 35.3



#16  
Methylene chloride  
Concen: 3.291 ug/L  
RT: 4.91 min Scan# 493  
Delta R.T. -0.01 min  
Lab File: VW015358.D  
Acq: 28 Apr 2020 13:11

Tgt Ion: 84 Resp: 15468  
Ion Ratio Lower Upper  
84 100  
49 107.8 74.6 138.6  
86 66.0 44.6 82.8

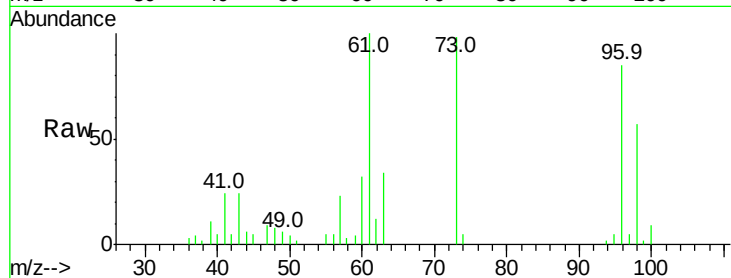




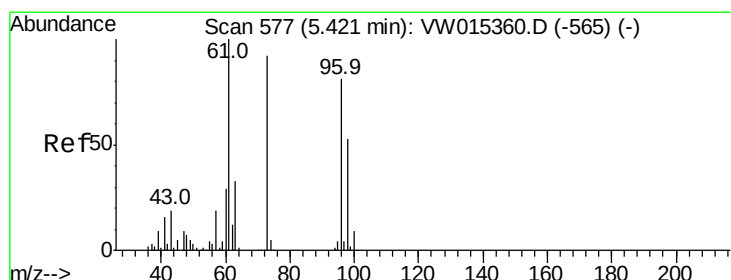
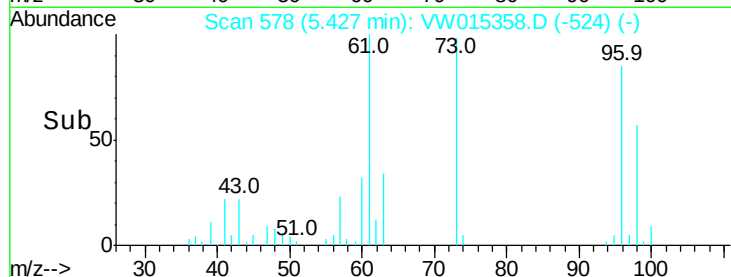
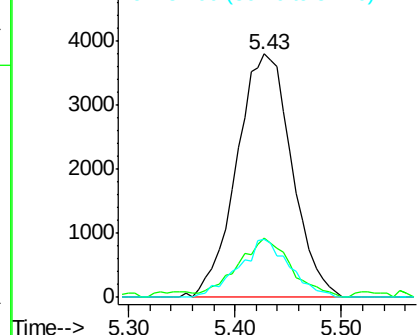
#17  
Methyl tert-butyl Ether  
Concen: 1.344 ug/L  
RT: 5.43 min Scan# 578  
Delta R.T. -0.00 min  
Lab File: VW015358.D  
Acq: 28 Apr 2020 13:11

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD2.501

Tgt Ion: 73 Resp: 13737  
Ion Ratio Lower Upper  
73 100  
43 23.8 16.7 25.1  
57 22.1 15.9 23.9

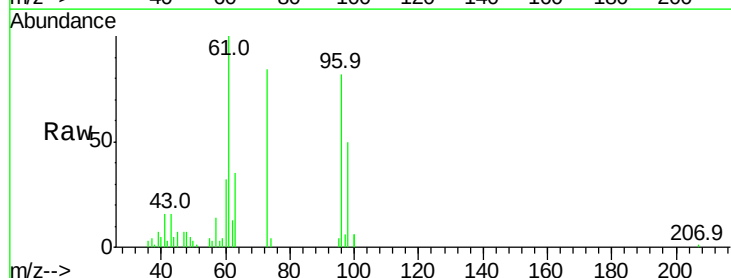


Abundance Ion 73.00 (72.70 to 73.70): VW  
Ion 43.00 (42.70 to 43.70): VW  
Ion 57.00 (56.70 to 57.70): VW

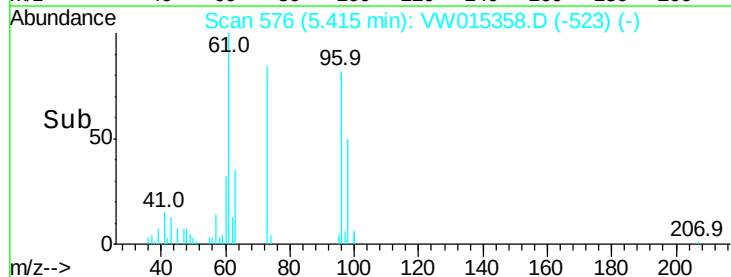
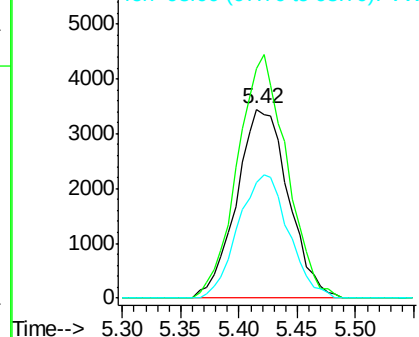


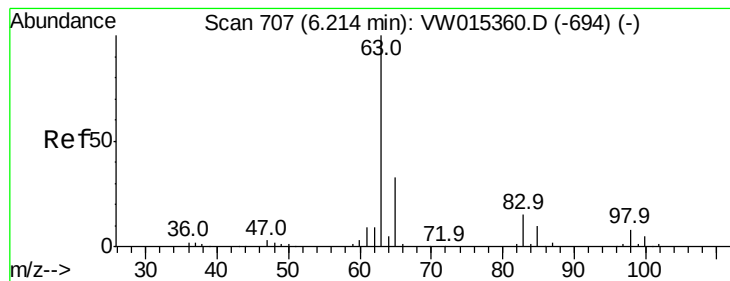
#18  
trans-1,2-Dichloroethene  
Concen: 2.234 ug/L  
RT: 5.42 min Scan# 576  
Delta R.T. -0.01 min  
Lab File: VW015358.D  
Acq: 28 Apr 2020 13:11

Tgt Ion: 96 Resp: 10665  
Ion Ratio Lower Upper  
96 100  
61 121.8 86.4 160.4  
98 61.3 45.3 84.1



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





#19

1,1-Dichloroethane

Concen: 2.242 ug/L

RT: 6.21 min Scan# 706

Delta R.T. -0.01 min

Lab File: VW015358.D

Acq: 28 Apr 2020 13:11

Instrument :

MSVOA\_W

ClientSampleId :

VSTD2.501

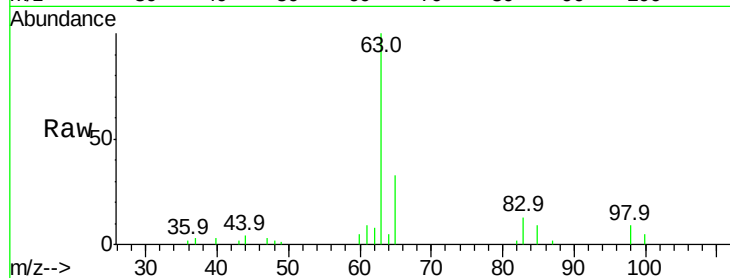
Tgt Ion: 63 Resp: 16405

Ion Ratio Lower Upper

63 100

65 32.6 23.2 43.0

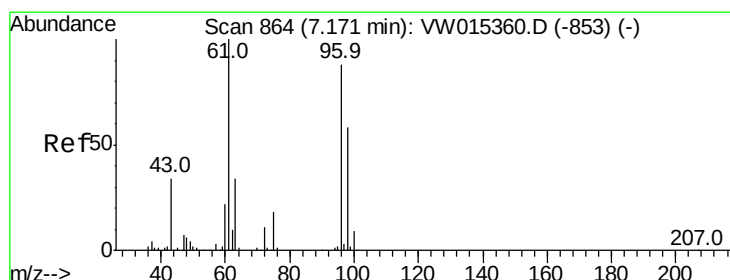
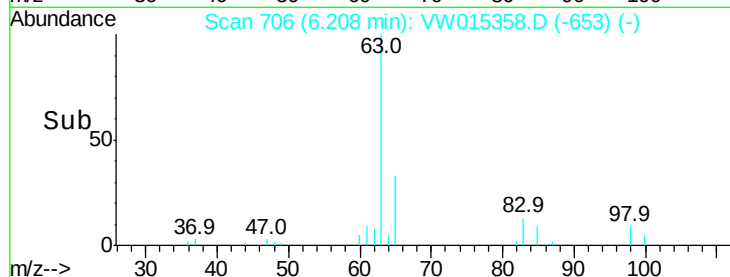
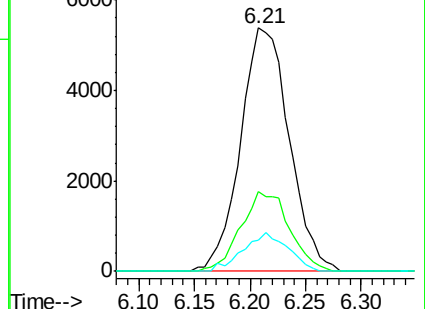
83 12.9 10.4 19.4



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



#21

2-Butanone

Concen: 6.222 ug/L

RT: 7.18 min Scan# 865

Delta R.T. 0.01 min

Lab File: VW015358.D

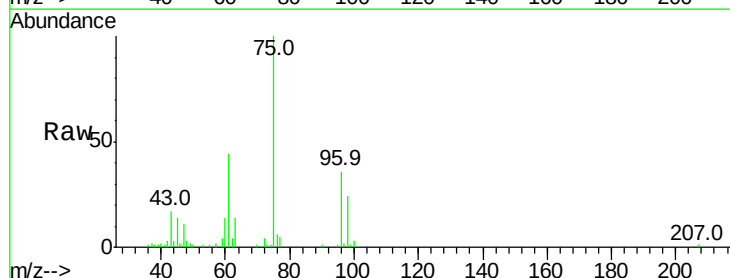
Acq: 28 Apr 2020 13:11

Tgt Ion: 43 Resp: 6650

Ion Ratio Lower Upper

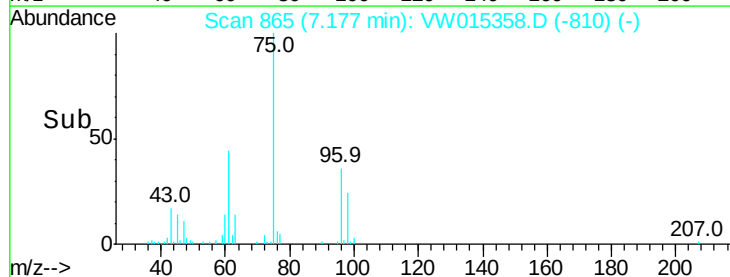
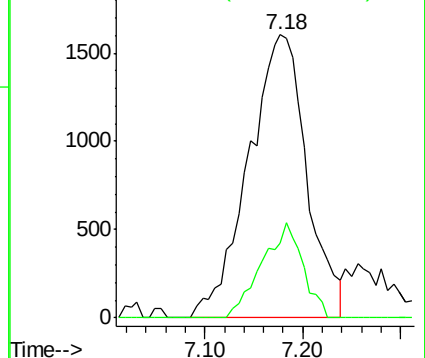
43 100

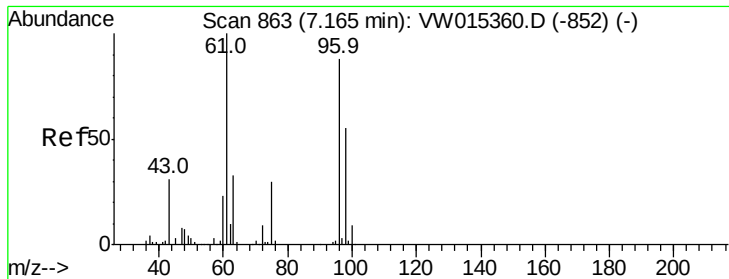
72 23.6 16.0 47.9



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



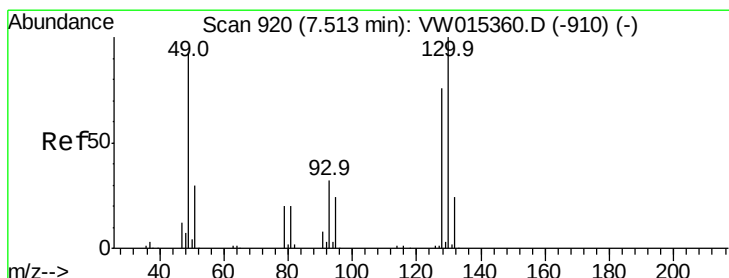
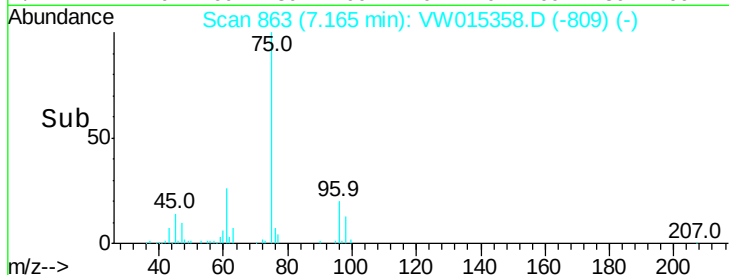
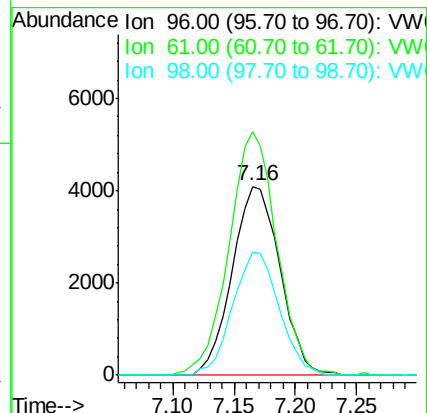
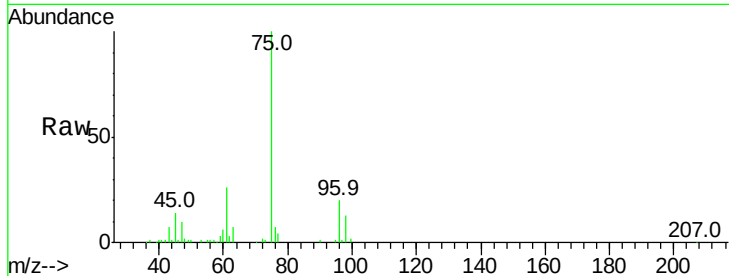


#22

cis-1,2-Dichloroethene  
Concen: 2.223 ug/L  
RT: 7.16 min Scan# 863  
Delta R.T. -0.00 min  
Lab File: VW015358.D  
Acq: 28 Apr 2020 13:11

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD2.501

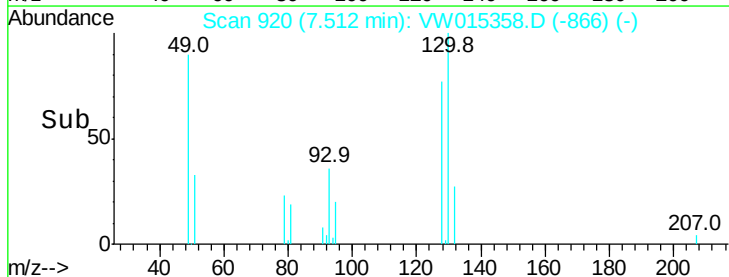
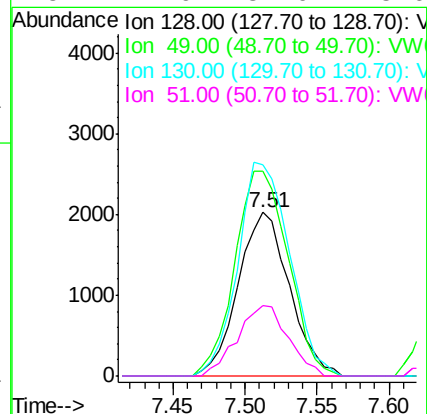
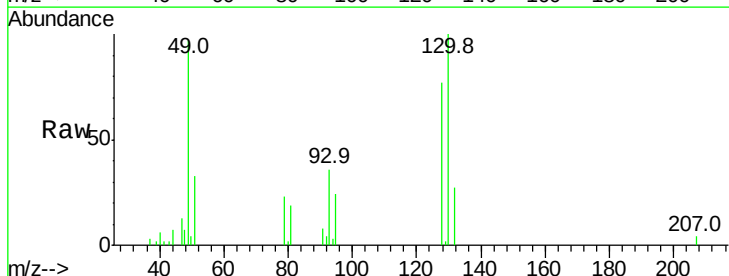
Tgt Ion: 96 Resp: 11125  
Ion Ratio Lower Upper  
96 100  
61 128.9 79.3 147.3  
98 65.3 43.6 81.0

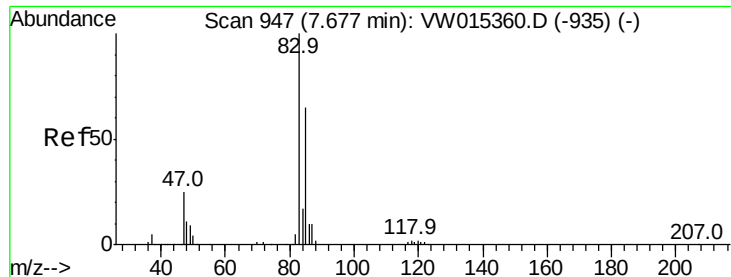


#23

Bromochloromethane  
Concen: 2.160 ug/L  
RT: 7.51 min Scan# 920  
Delta R.T. -0.00 min  
Lab File: VW015358.D  
Acq: 28 Apr 2020 13:11

Tgt Ion: 128 Resp: 5014  
Ion Ratio Lower Upper  
128 100  
49 125.5 85.8 159.4  
130 129.1 92.2 171.2  
51 42.9 32.0 48.0

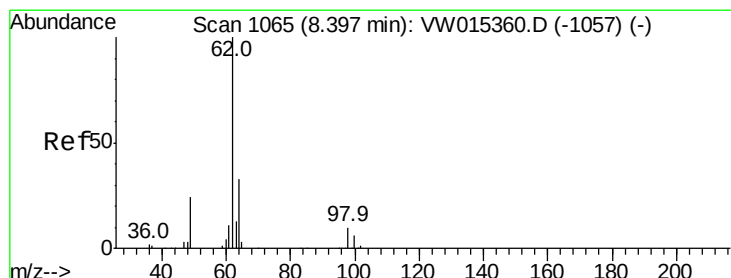
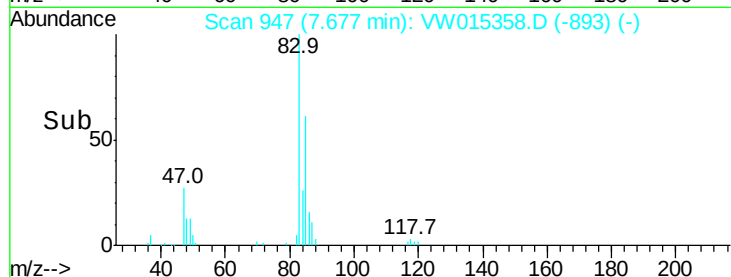
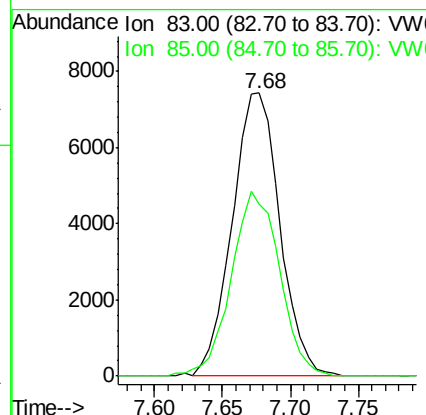
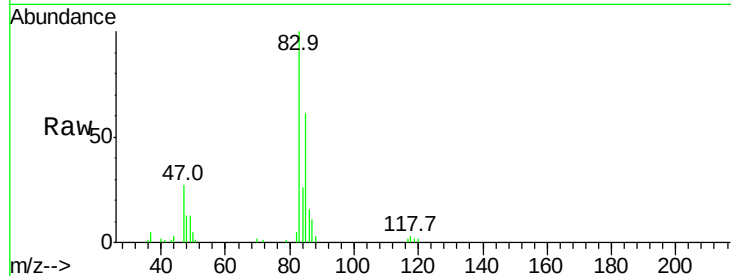




#25  
Chloroform  
Concen: 1.888 ug/L  
RT: 7.68 min Scan# 947  
Delta R.T. -0.00 min  
Lab File: VW015358.D  
Acq: 28 Apr 2020 13:11

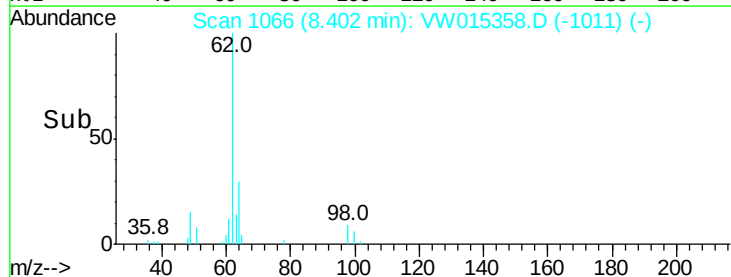
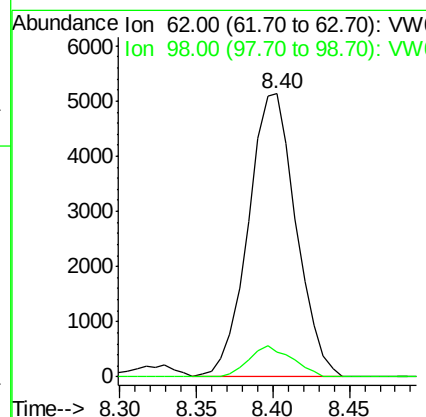
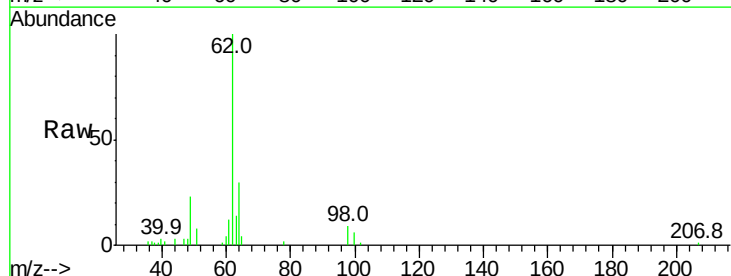
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD2.501

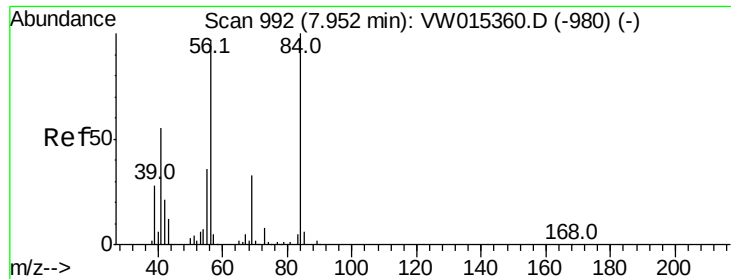
Tgt Ion: 83 Resp: 18204  
Ion Ratio Lower Upper  
83 100  
85 66.2 46.1 85.5



#27  
1,2-Dichloroethane  
Concen: 2.146 ug/L  
RT: 8.40 min Scan# 1066  
Delta R.T. 0.01 min  
Lab File: VW015358.D  
Acq: 28 Apr 2020 13:11

Tgt Ion: 62 Resp: 11182  
Ion Ratio Lower Upper  
62 100  
98 8.6 7.9 11.9

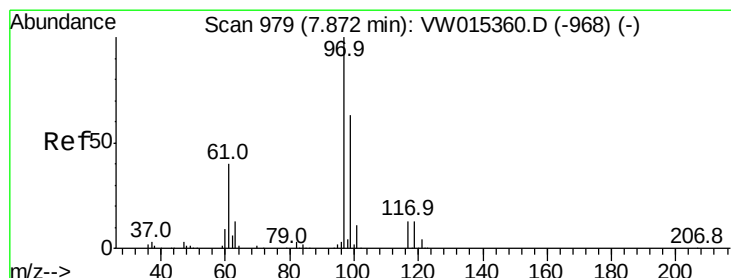
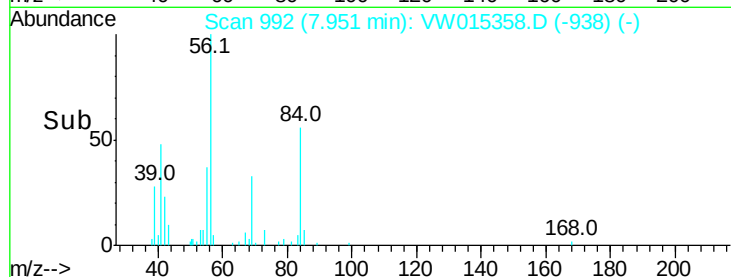
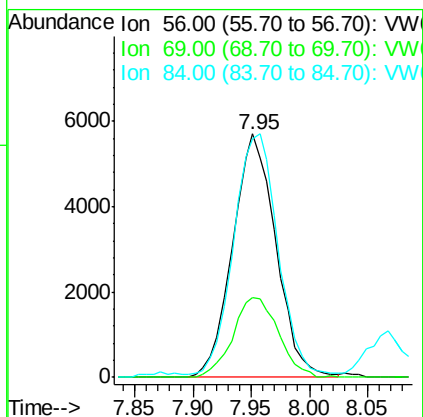
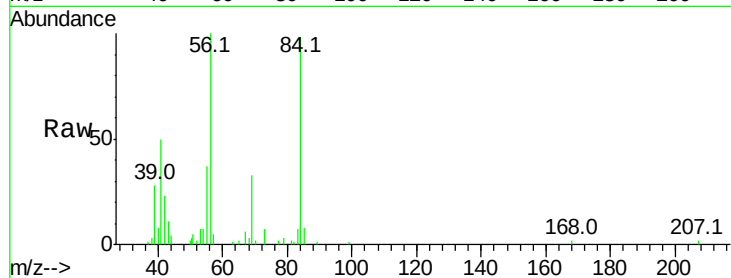




#30  
Cyclohexane  
Concen: 2.312 ug/L  
RT: 7.95 min Scan# 992  
Delta R.T. -0.00 min  
Lab File: VW015358.D  
Acq: 28 Apr 2020 13:11

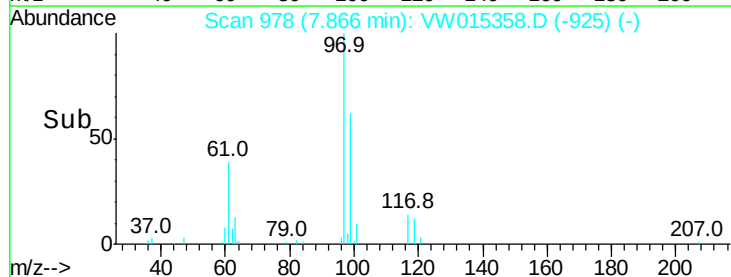
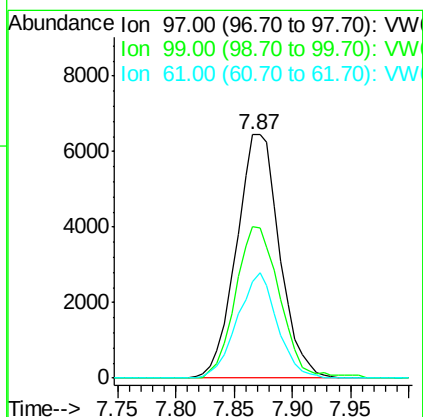
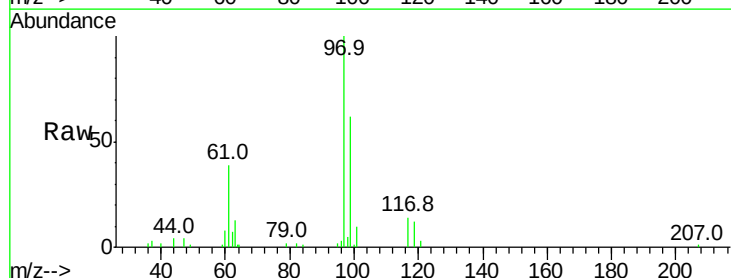
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD2.501

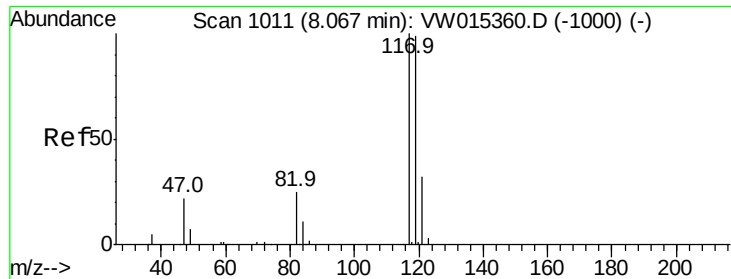
Tgt Ion: 56 Resp: 14781  
Ion Ratio Lower Upper  
56 100  
69 34.3 27.4 41.2  
84 103.6 83.2 124.8



#31  
1,1,1-Trichloroethane  
Concen: 2.230 ug/L  
RT: 7.87 min Scan# 978  
Delta R.T. -0.01 min  
Lab File: VW015358.D  
Acq: 28 Apr 2020 13:11

Tgt Ion: 97 Resp: 16673  
Ion Ratio Lower Upper  
97 100  
99 62.9 51.4 77.2  
61 39.9 32.8 49.2





#32

Carbon tetrachloride

Concen: 2.288 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. -0.00 min

Lab File: VW015358.D

Acq: 28 Apr 2020 13:11

Instrument :

MSVOA\_W

ClientSampleId :

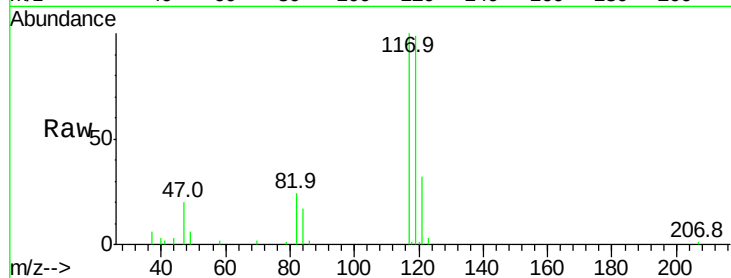
VSTD2.501

Tgt Ion:117 Resp: 15281

Ion Ratio Lower Upper

117 100

119 97.5 76.5 114.7



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

8.07

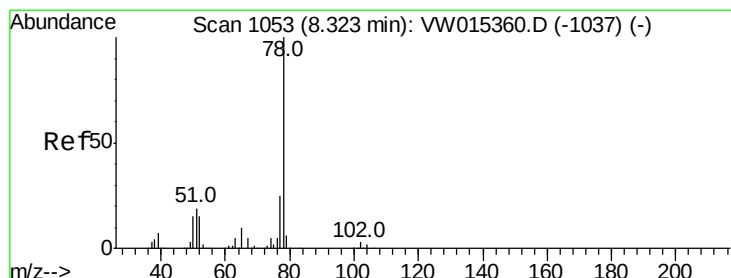
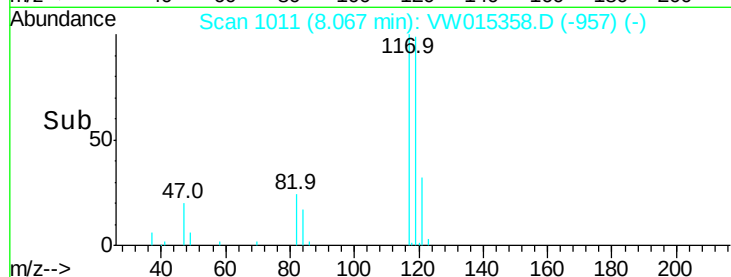
6000

4000

2000

0

Time--> 8.00 8.05 8.10 8.15



#34

Benzene

Concen: 2.476 ug/L

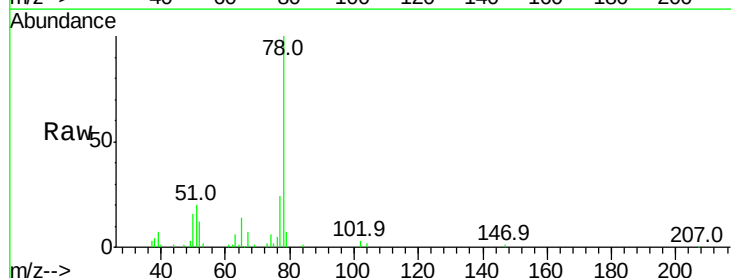
RT: 8.32 min Scan# 1053

Delta R.T. -0.00 min

Lab File: VW015358.D

Acq: 28 Apr 2020 13:11

Tgt Ion: 78 Resp: 39771



Abundance Ion 78.00 (77.70 to 78.70): VW

8.32

20000

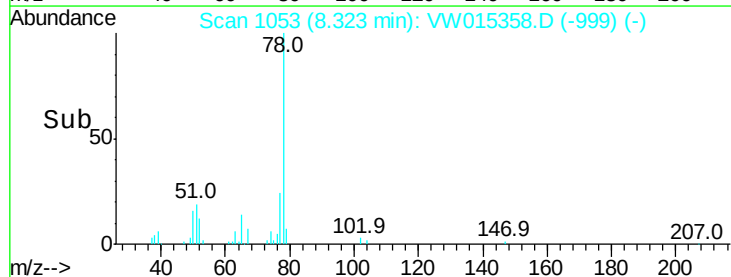
15000

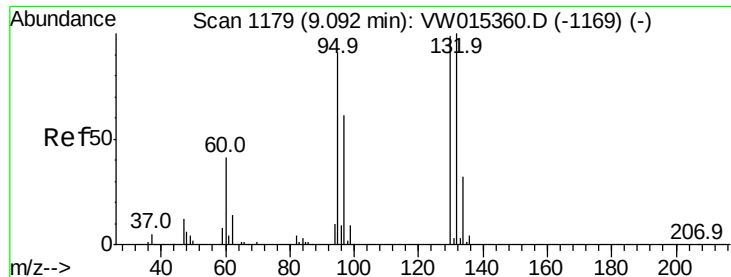
10000

5000

0

Time--> 8.20 8.30 8.40

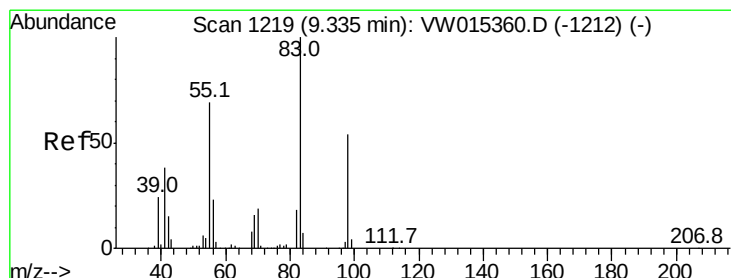
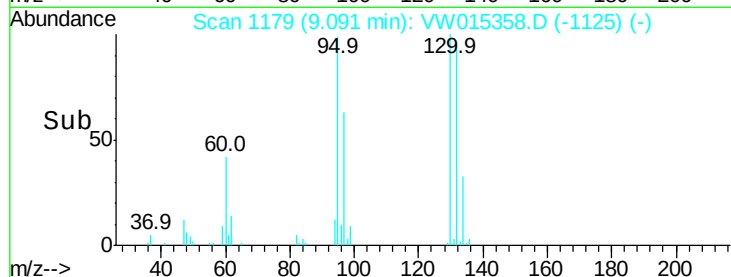
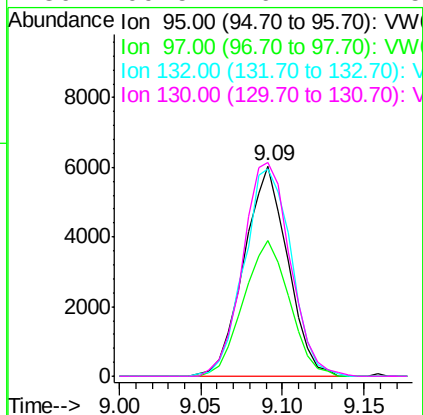
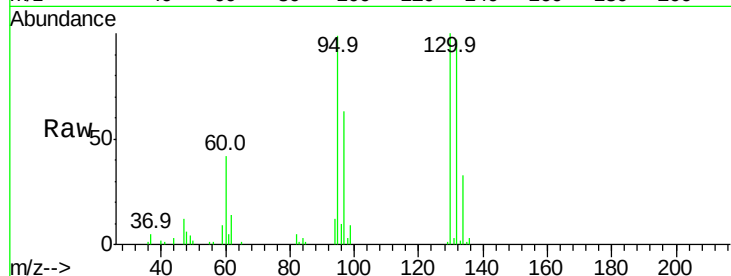




#35  
 Trichloroethene  
 Concen: 2.424 ug/L  
 RT: 9.09 min Scan# 1179  
 Delta R.T. -0.00 min  
 Lab File: VW015358.D  
 Acq: 28 Apr 2020 13:11

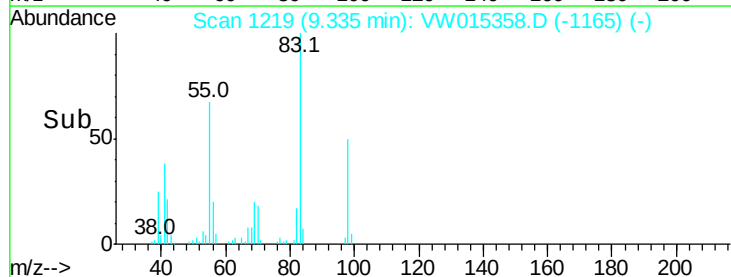
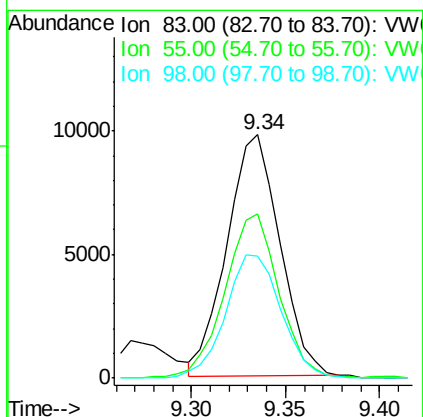
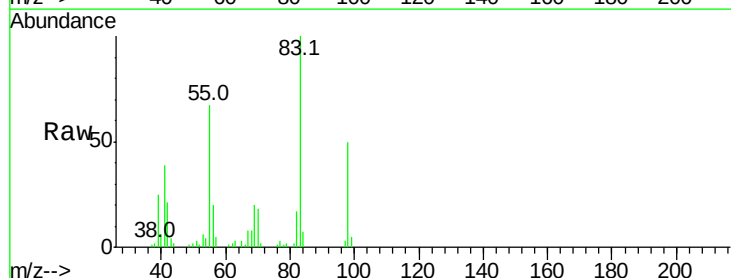
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD2.501

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 95    | Resp: | 11299 |
| Ion      | Ratio | Lower | Upper |
| 95       | 100   |       |       |
| 97       | 67.3  | 45.9  | 85.3  |
| 132      | 106.5 | 75.2  | 139.6 |
| 130      | 109.5 | 76.7  | 142.5 |

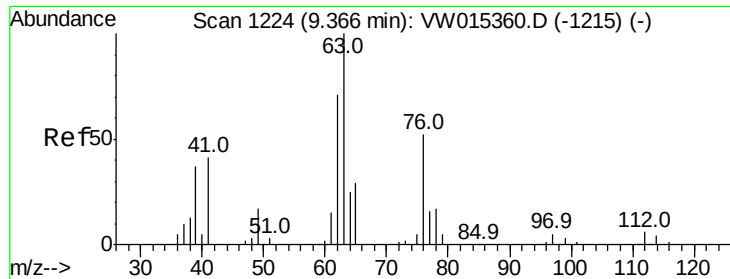


#36  
 Methylcyclohexane  
 Concen: 2.414 ug/L  
 RT: 9.34 min Scan# 1219  
 Delta R.T. -0.00 min  
 Lab File: VW015358.D  
 Acq: 28 Apr 2020 13:11

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 19086 |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 55       | 69.3  | 53.7  | 80.5  |
| 98       | 53.3  | 42.3  | 63.5  |



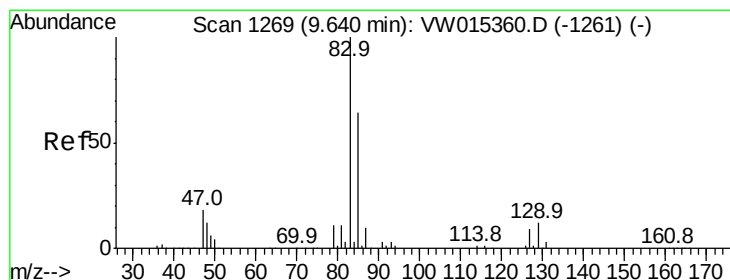
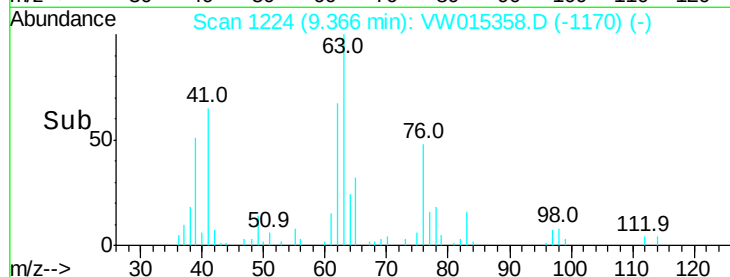
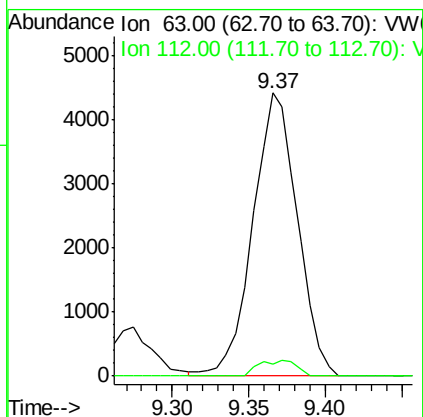
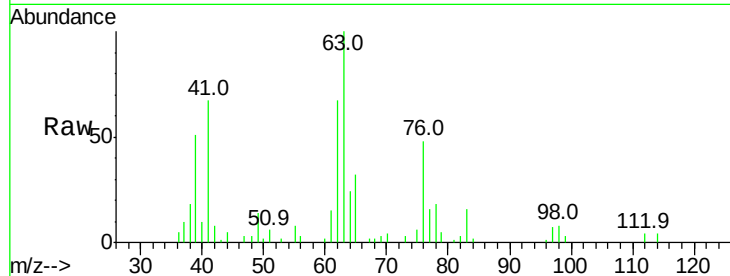




#40  
 1,2-Dichloropropane  
 Concen: 2.443 ug/L  
 RT: 9.37 min Scan# 1224  
 Delta R.T. -0.00 min  
 Lab File: VW015358.D  
 Acq: 28 Apr 2020 13:11

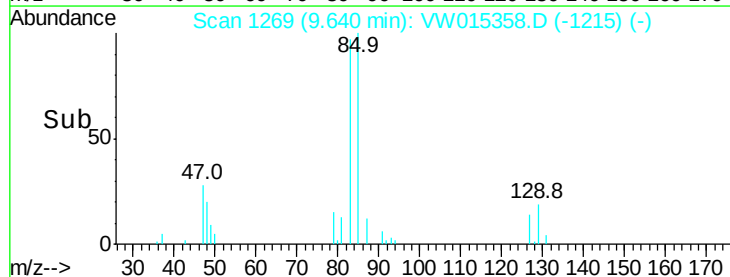
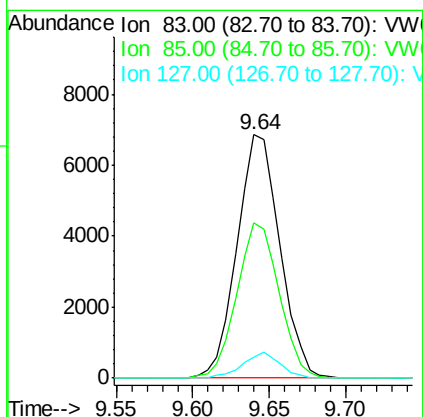
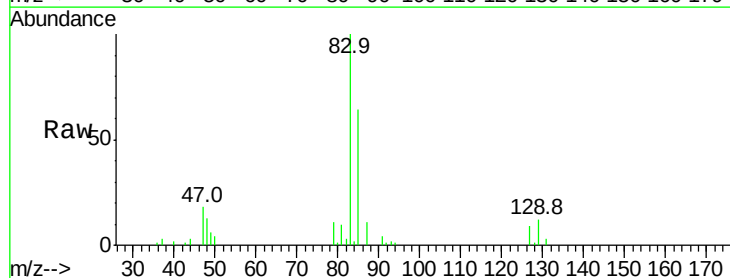
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD2.501

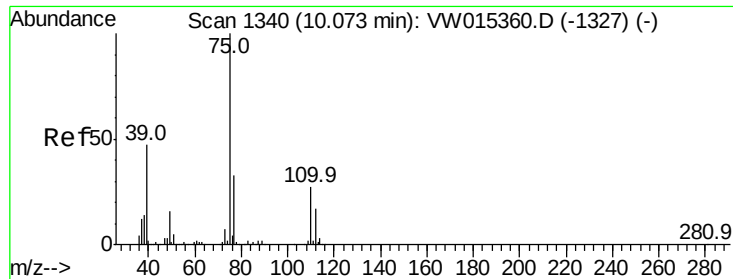
Tgt Ion: 63 Resp: 8929  
 Ion Ratio Lower Upper  
 63 100  
 112 4.7 4.6 6.8



#41  
 Bromodichloromethane  
 Concen: 2.357 ug/L  
 RT: 9.64 min Scan# 1269  
 Delta R.T. -0.00 min  
 Lab File: VW015358.D  
 Acq: 28 Apr 2020 13:11

Tgt Ion: 83 Resp: 13346  
 Ion Ratio Lower Upper  
 83 100  
 85 64.0 44.7 83.1  
 127 8.7 7.0 10.6





#42

cis-1,3-Dichloropropene

Concen: 2.284 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VW015358.D

Acq: 28 Apr 2020 13:11

Instrument :

MSVOA\_W

ClientSampleId :

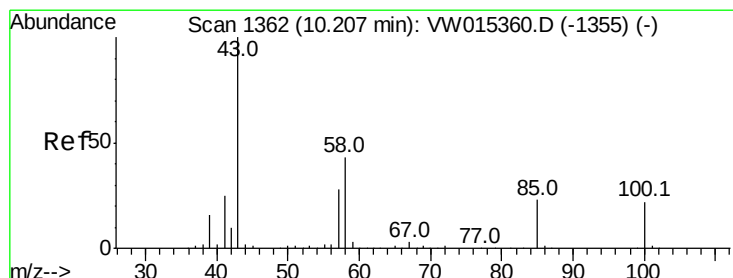
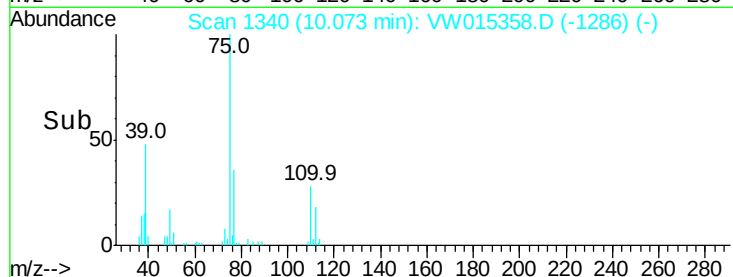
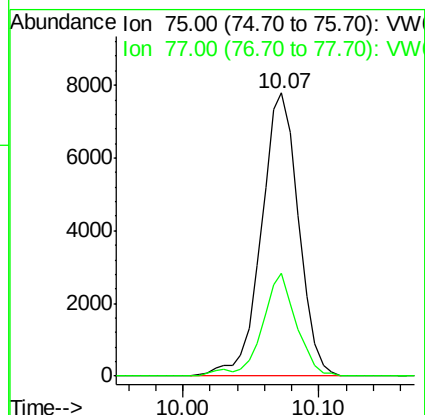
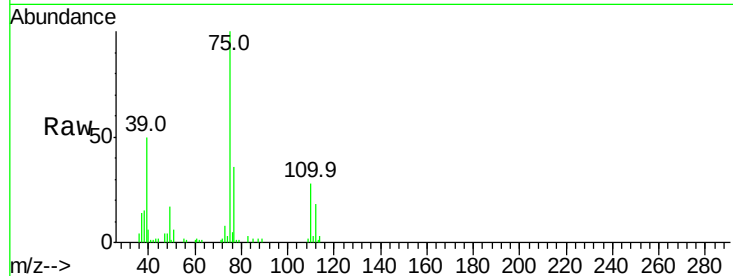
VSTD2.501

Tgt Ion: 75 Resp: 14930

Ion Ratio Lower Upper

75 100

77 36.3 22.7 42.3



#43

4-Methyl-2-pentanone

Concen: 8.361 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. -0.00 min

Lab File: VW015358.D

Acq: 28 Apr 2020 13:11

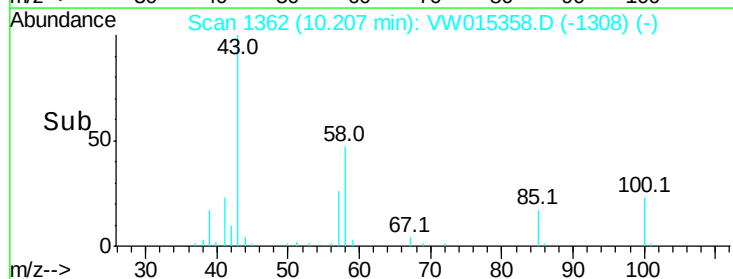
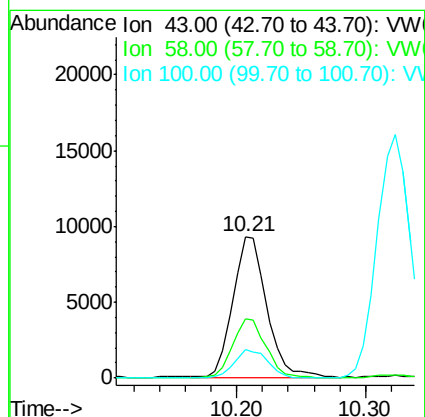
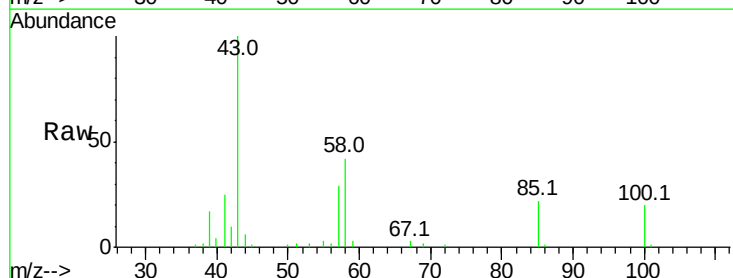
Tgt Ion: 43 Resp: 16833

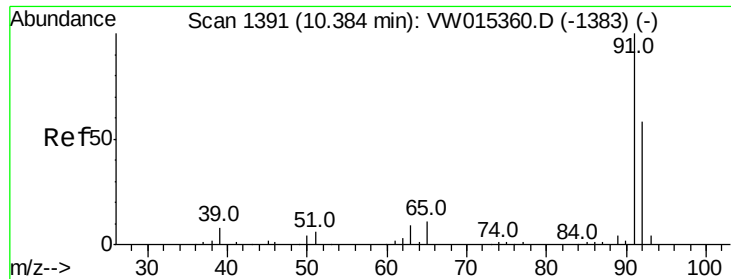
Ion Ratio Lower Upper

43 100

58 42.2 34.2 51.4

100 20.0 17.2 25.8





#44

Toluene

Concen: 2.404 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VW015358.D

Acq: 28 Apr 2020 13:11

Instrument :

MSVOA\_W

ClientSampleId :

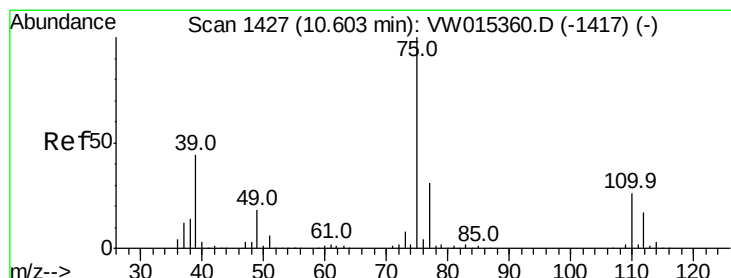
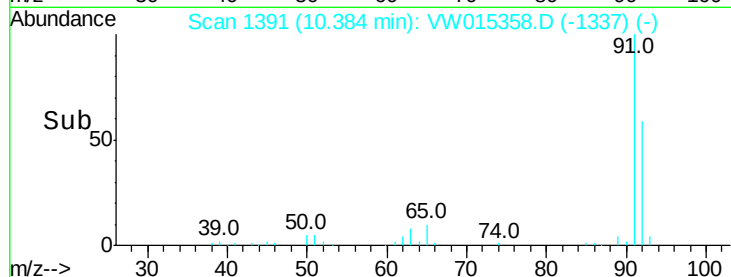
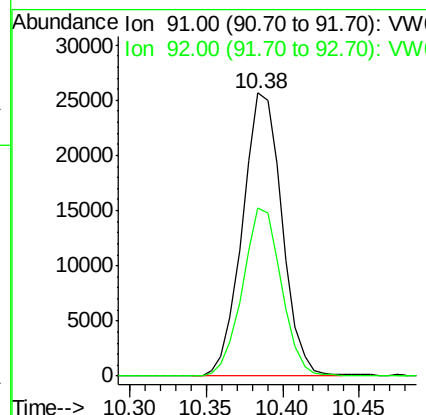
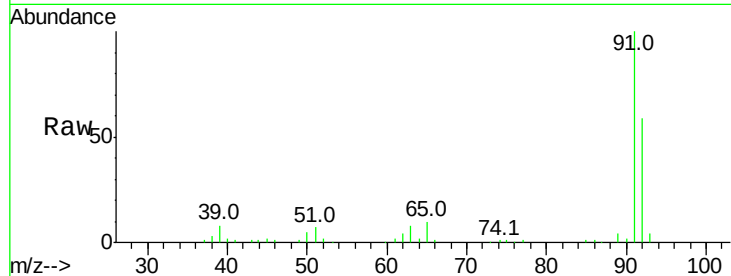
VSTD2.501

Tgt Ion: 91 Resp: 46173

Ion Ratio Lower Upper

91 100

92 59.3 40.7 75.7



#45

trans-1,3-Dichloropropene

Concen: 2.274 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW015358.D

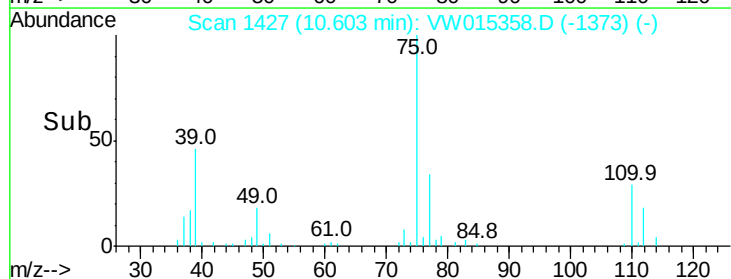
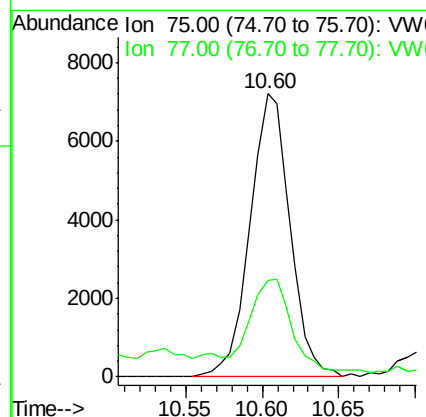
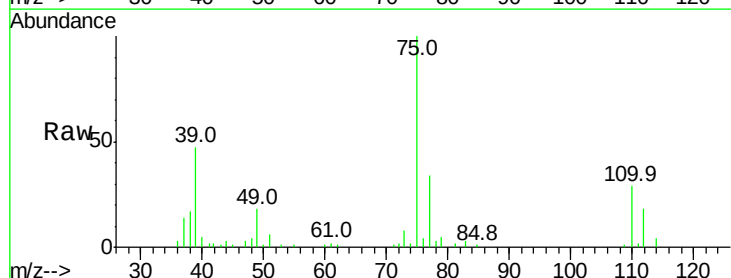
Acq: 28 Apr 2020 13:11

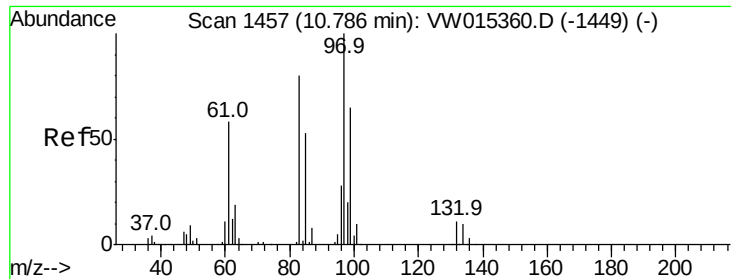
Tgt Ion: 75 Resp: 13111

Ion Ratio Lower Upper

75 100

77 34.2 22.0 41.0

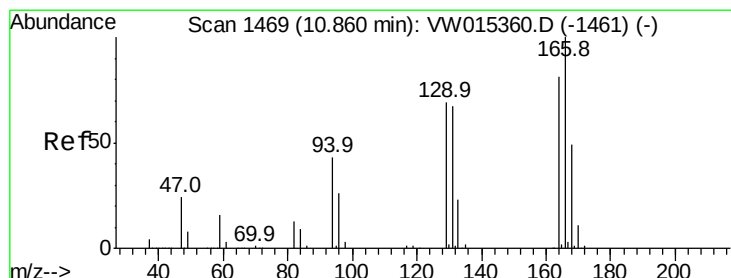
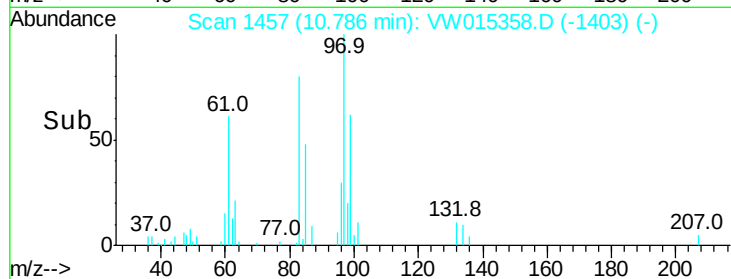
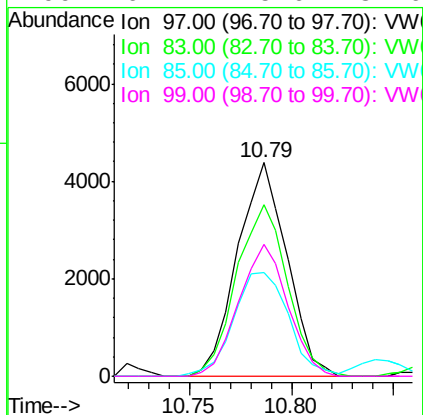
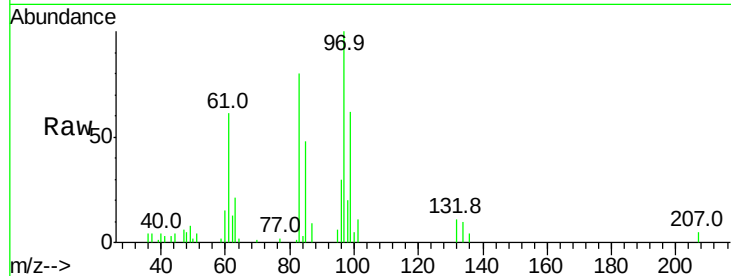




#46  
1,1,2-Trichloroethane  
Concen: 2.359 ug/L  
RT: 10.79 min Scan# 1457  
Delta R.T. -0.00 min  
Lab File: VW015358.D  
Acq: 28 Apr 2020 13:11

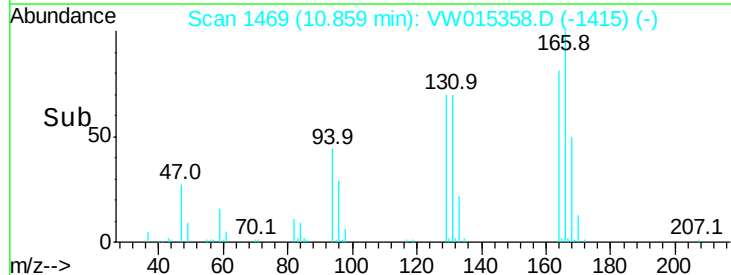
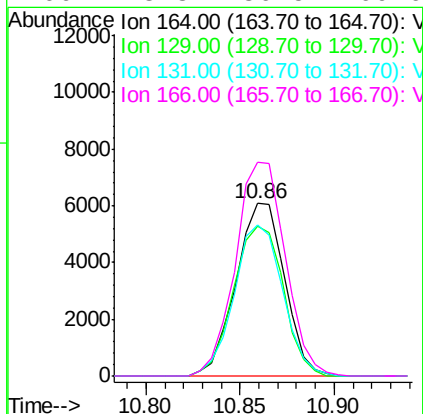
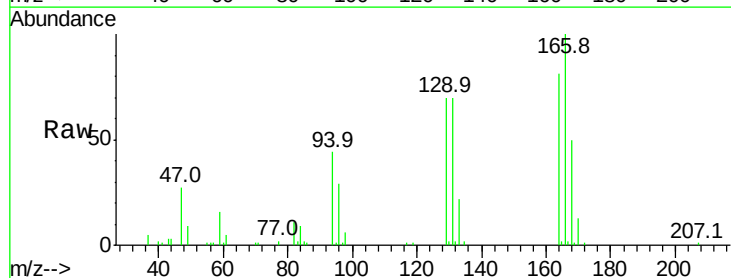
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD2.501

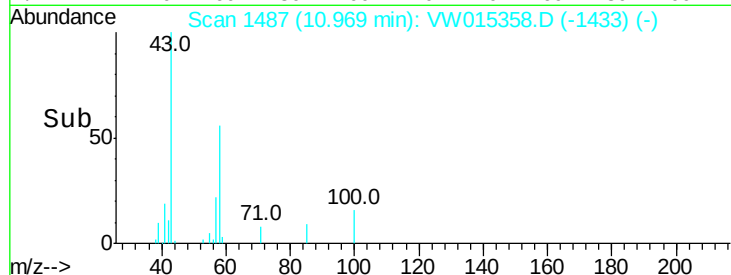
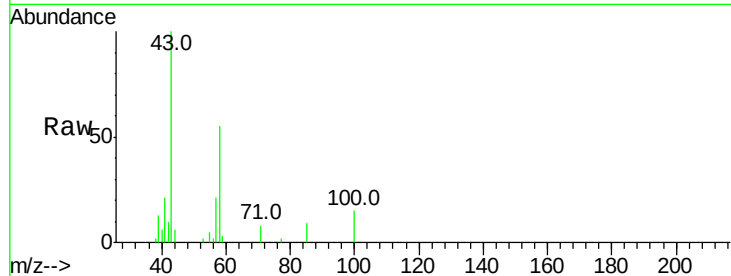
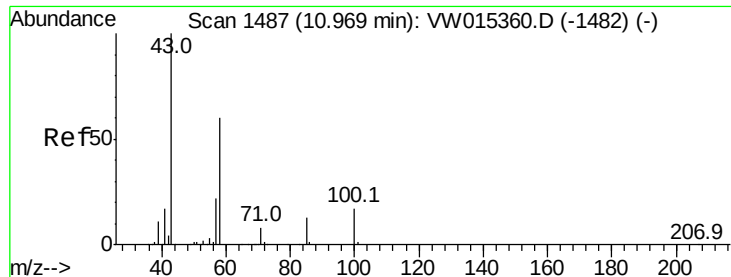
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 7378  |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 80.2  | 56.1  | 104.1 |
| 85       | 48.4  | 37.2  | 69.0  |
| 99       | 61.7  | 45.6  | 84.6  |



#47  
Tetrachloroethene  
Concen: 2.486 ug/L  
RT: 10.86 min Scan# 1469  
Delta R.T. -0.00 min  
Lab File: VW015358.D  
Acq: 28 Apr 2020 13:11

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 10888 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 86.5  | 60.0  | 111.4 |
| 131      | 87.2  | 58.0  | 107.8 |
| 166      | 123.8 | 86.5  | 160.6 |

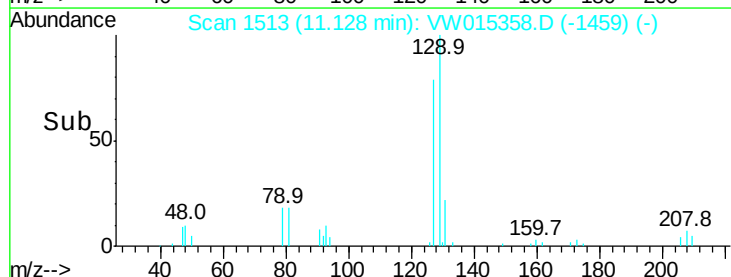
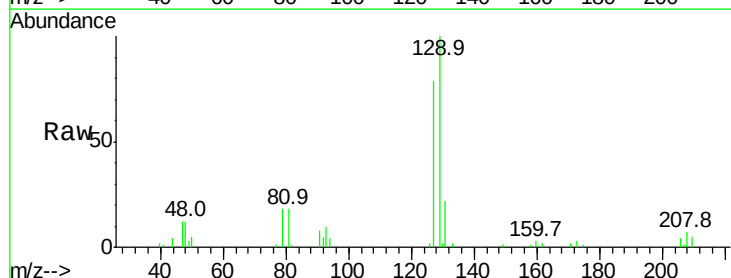
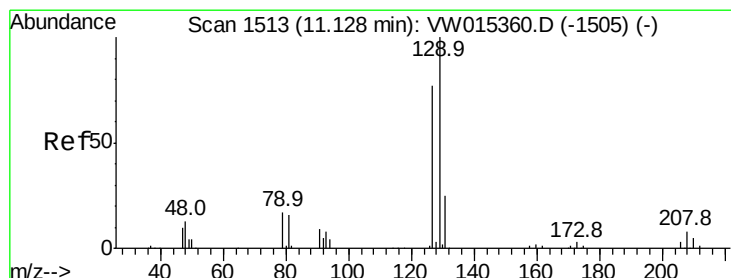
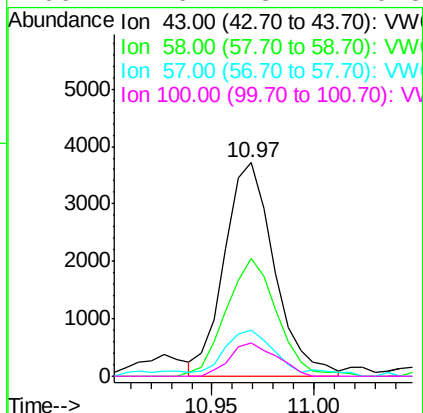




#49  
2-Hexanone  
Concen: 4.288 ug/L  
RT: 10.97 min Scan# 1487  
Delta R.T. -0.00 min  
Lab File: VW015358.D  
Acq: 28 Apr 2020 13:11

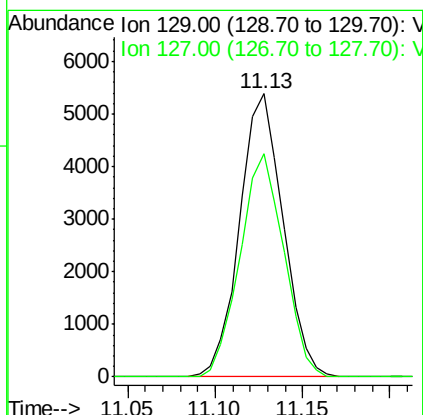
Instrument :  
MSVOA\_W  
ClientSampled :  
VSTD2.501

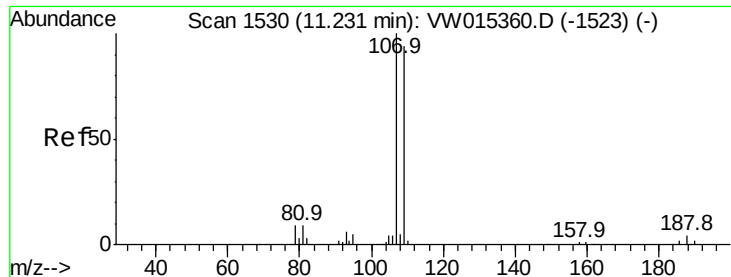
Tgt Ion: 43 Resp: 6338  
Ion Ratio Lower Upper  
43 100  
58 55.1 47.1 70.7  
57 20.9 16.9 25.3  
100 14.6 13.2 19.8



#50  
Dibromochloromethane  
Concen: 2.230 ug/L  
RT: 11.13 min Scan# 1513  
Delta R.T. -0.00 min  
Lab File: VW015358.D  
Acq: 28 Apr 2020 13:11

Tgt Ion: 129 Resp: 9295  
Ion Ratio Lower Upper  
129 100  
127 78.7 53.9 100.1





#51

1,2-Dibromoethane

Concen: 2.328 ug/L

RT: 11.24 min Scan# 1531

Delta R.T. 0.01 min

Lab File: VW015358.D

Acq: 28 Apr 2020 13:11

Instrument :

MSVOA\_W

ClientSampleId :

VSTD2.501

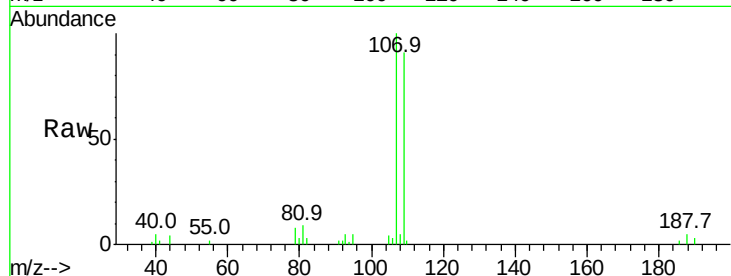
Tgt Ion:107 Resp: 7269

Ion Ratio Lower Upper

107 100

109 91.2 65.9 122.5

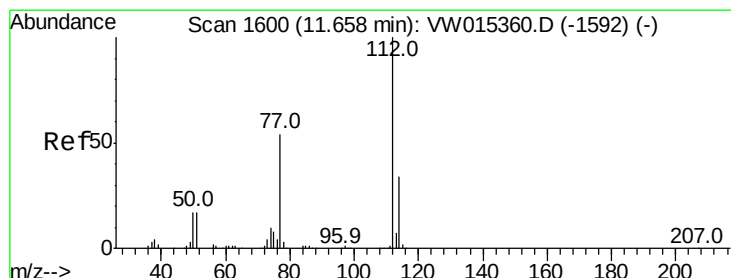
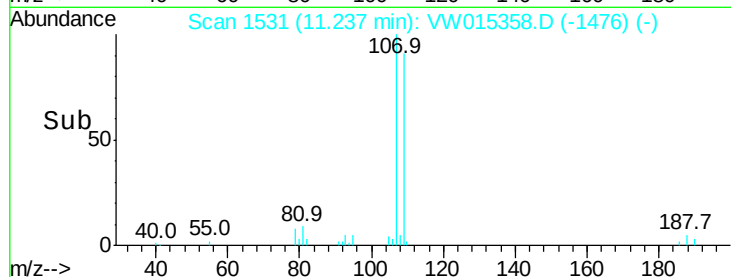
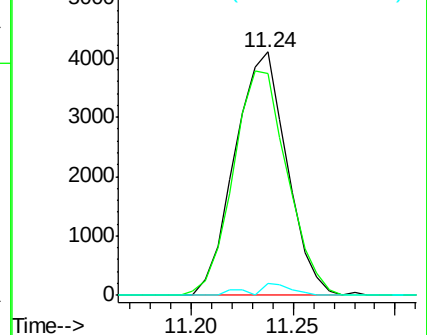
188 5.1 3.6 5.4



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#52

Chlorobenzene

Concen: 2.323 ug/L

RT: 11.66 min Scan# 1600

Delta R.T. -0.00 min

Lab File: VW015358.D

Acq: 28 Apr 2020 13:11

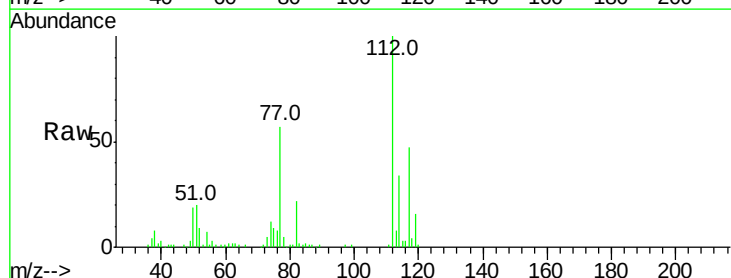
Tgt Ion:112 Resp: 30015

Ion Ratio Lower Upper

112 100

77 57.5 43.8 65.6

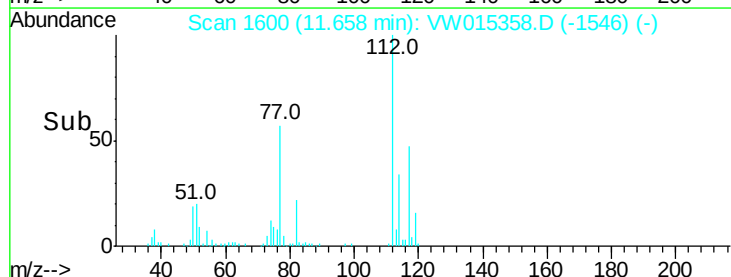
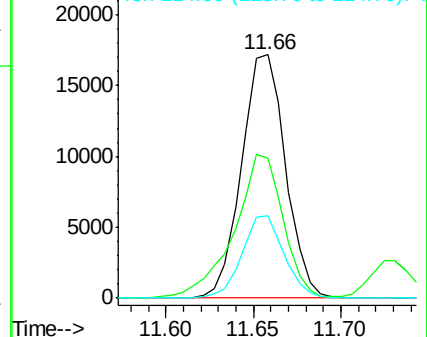
114 34.1 23.5 43.7

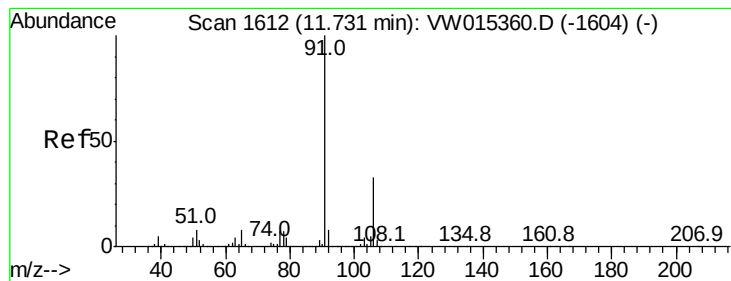


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): V

Ion 114.00 (113.70 to 114.70): V





#53

Ethylbenzene

Concen: 2.343 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW015358.D

Acq: 28 Apr 2020 13:11

Instrument :

MSVOA\_W

ClientSampleId :

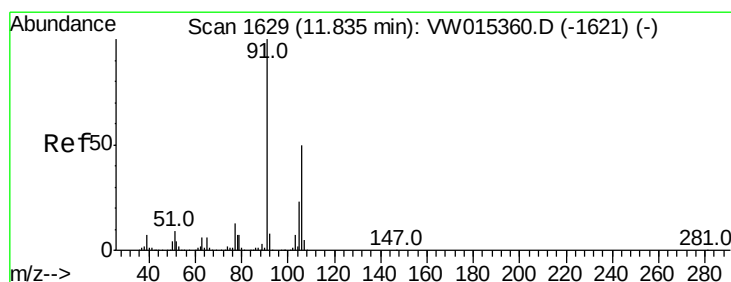
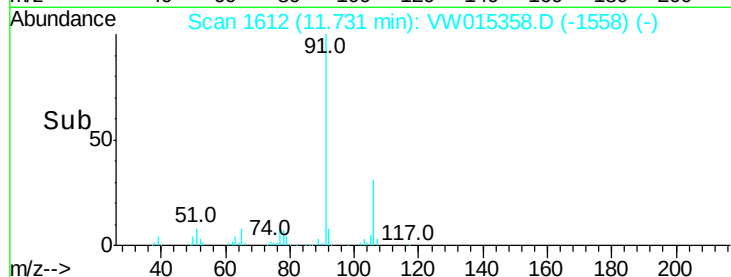
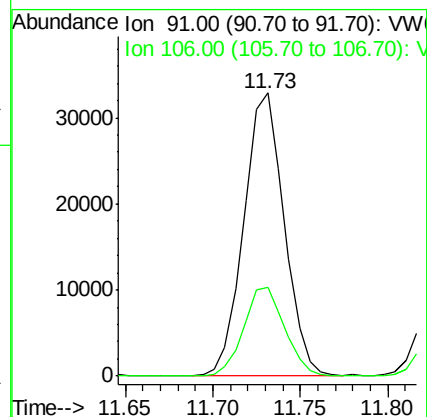
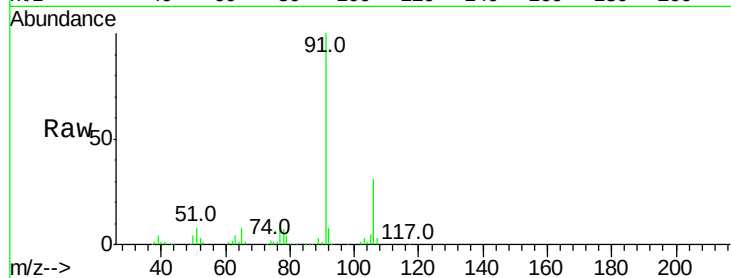
VSTD2.501

Tgt Ion: 91 Resp: 52837

Ion Ratio Lower Upper

91 100

106 31.3 23.0 42.8



#54

m,p-Xylene

Concen: 2.270 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. 0.01 min

Lab File: VW015358.D

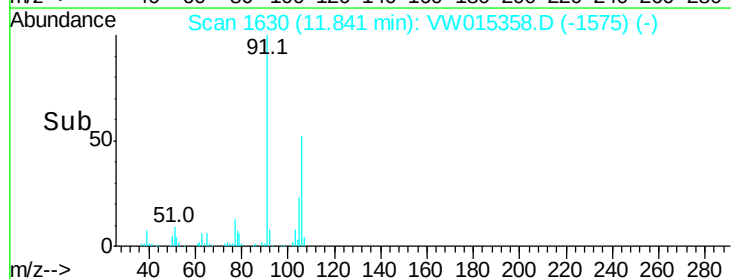
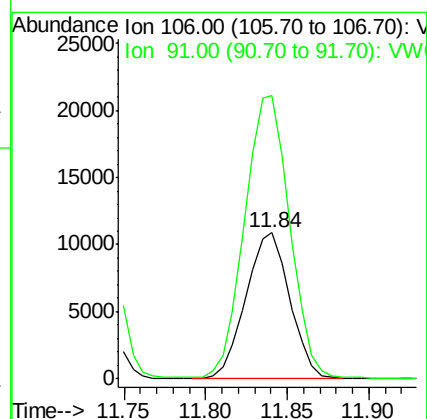
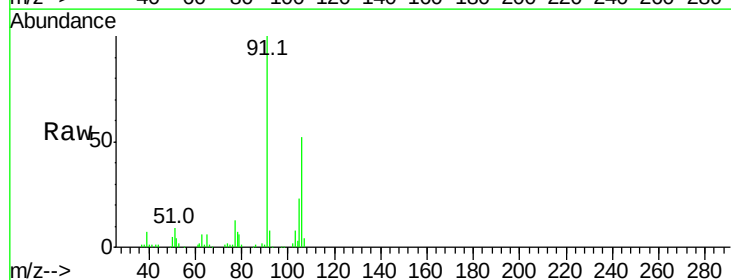
Acq: 28 Apr 2020 13:11

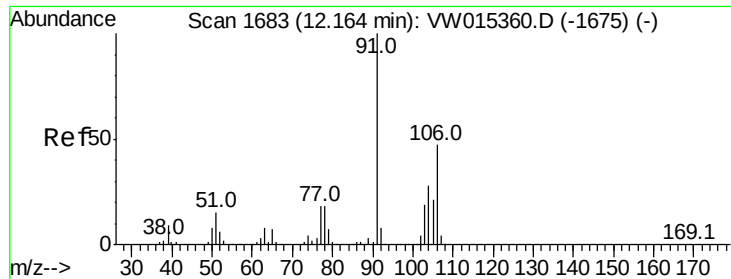
Tgt Ion: 106 Resp: 20532

Ion Ratio Lower Upper

106 100

91 193.6 140.8 261.4





#55

o-xylene

Concen: 2.258 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. -0.00 min

Lab File: VW015358.D

Acq: 28 Apr 2020 13:11

Instrument :

MSVOA\_W

ClientSampleId :

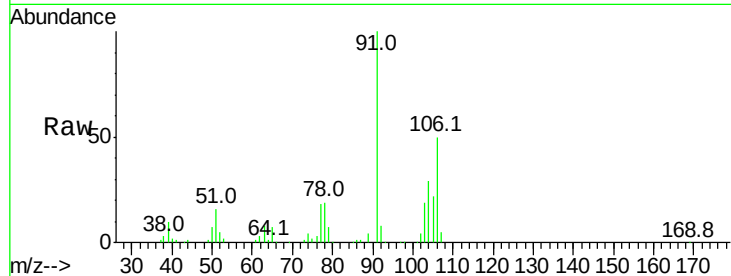
VSTD2.501

Tgt Ion:106 Resp: 19354

Ion Ratio Lower Upper

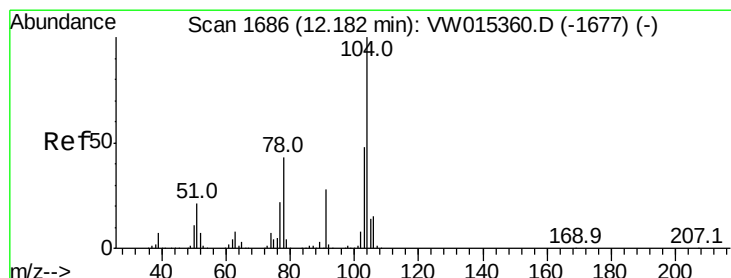
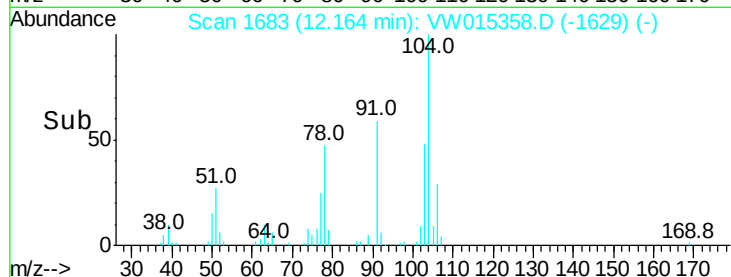
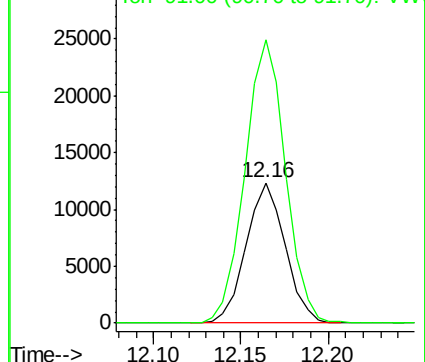
106 100

91 201.2 147.5 273.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#56

Styrene

Concen: 2.186 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VW015358.D

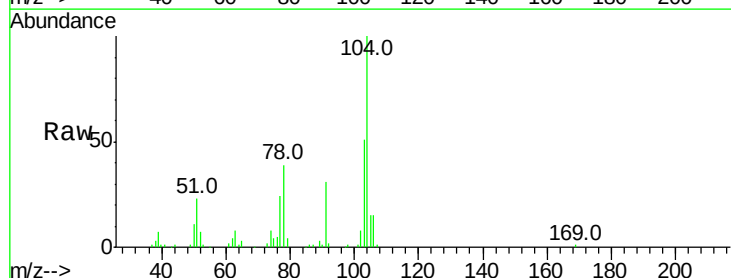
Acq: 28 Apr 2020 13:11

Tgt Ion:104 Resp: 31871

Ion Ratio Lower Upper

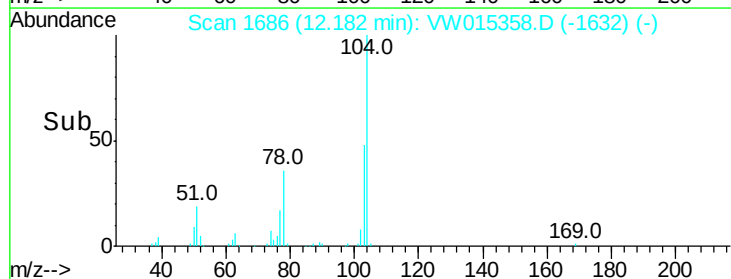
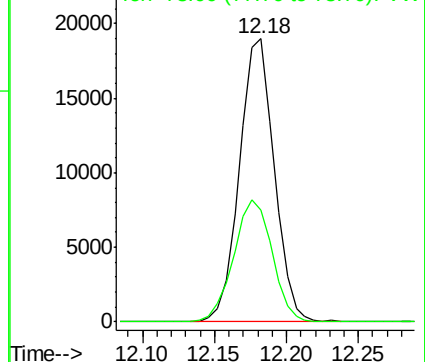
104 100

78 39.4 30.1 55.9

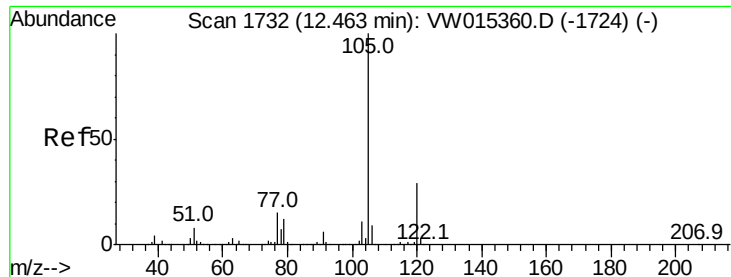


Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW







#57

Isopropylbenzene

Concen: 2.206 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW015358.D

Acq: 28 Apr 2020 13:11

Instrument :

MSVOA\_W

ClientSampleId :

VSTD2.501

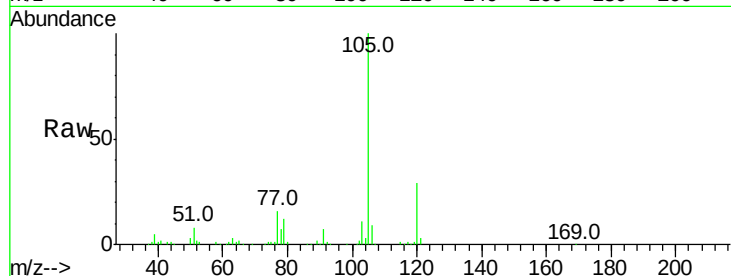
Tgt Ion:105 Resp: 52177

Ion Ratio Lower Upper

105 100

120 28.7 22.4 33.6

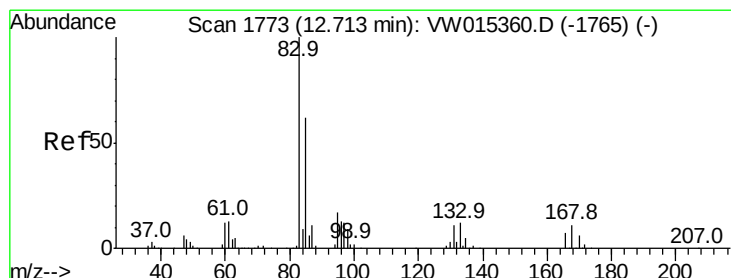
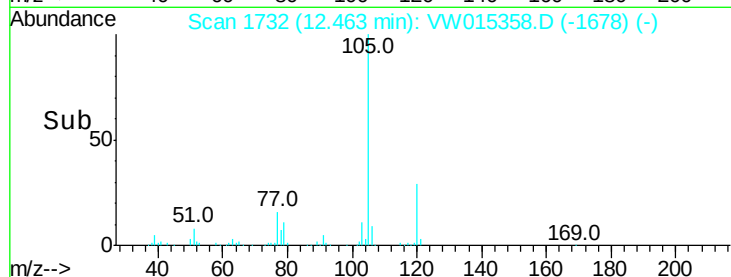
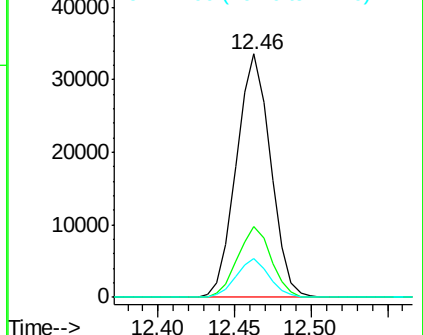
77 15.4 12.2 18.2



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



#58

1,1,2,2-Tetrachloroethane

Concen: 2.344 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW015358.D

Acq: 28 Apr 2020 13:11

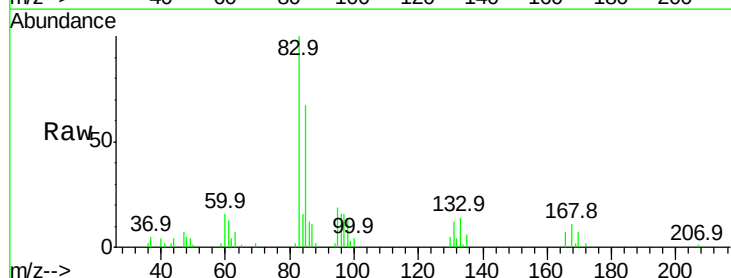
Tgt Ion: 83 Resp: 8050

Ion Ratio Lower Upper

83 100

85 67.3 43.8 81.3

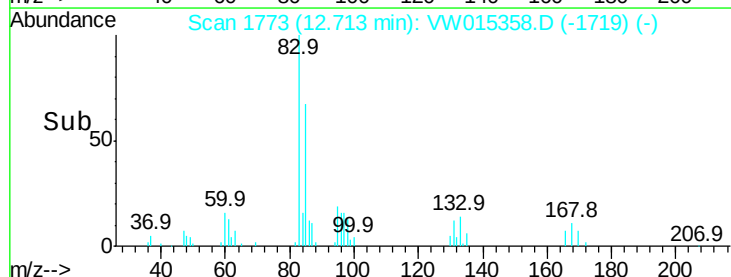
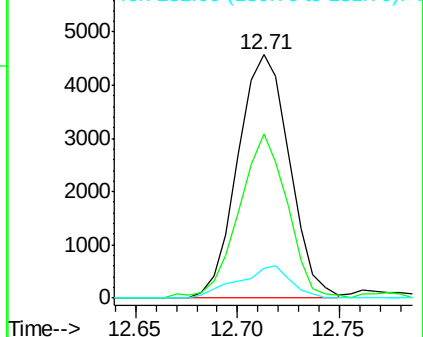
131 12.0 9.1 13.7

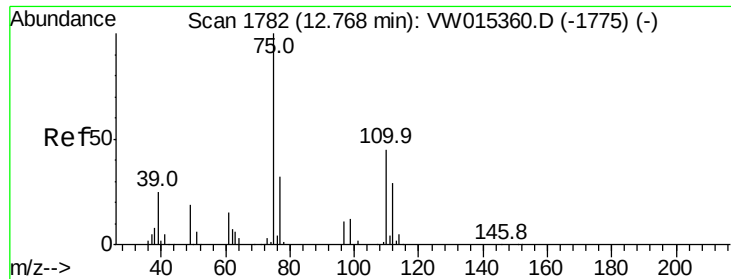


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 2.281 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. -0.00 min

Lab File: VW015358.D

Acq: 28 Apr 2020 13:11

Instrument :

MSVOA\_W

ClientSampleId :

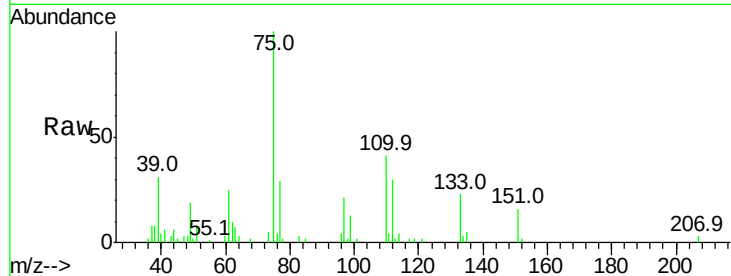
VSTD2.501

Tgt Ion: 75 Resp: 5944

Ion Ratio Lower Upper

75 100

77 38.5 26.4 39.6



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW

12.77

4000

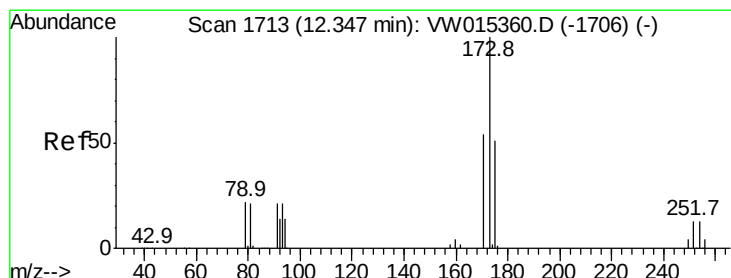
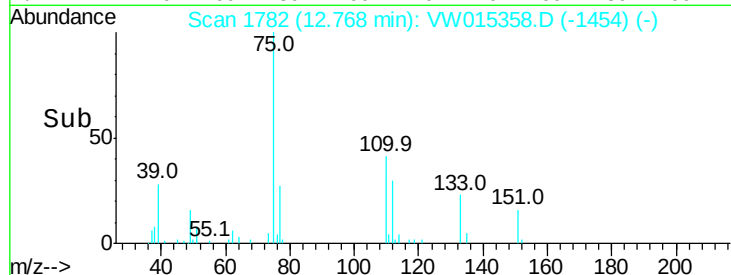
3000

2000

1000

0

Time--> 12.70 12.75 12.80



#62

Bromoform

Concen: 2.270 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. -0.00 min

Lab File: VW015358.D

Acq: 28 Apr 2020 13:11

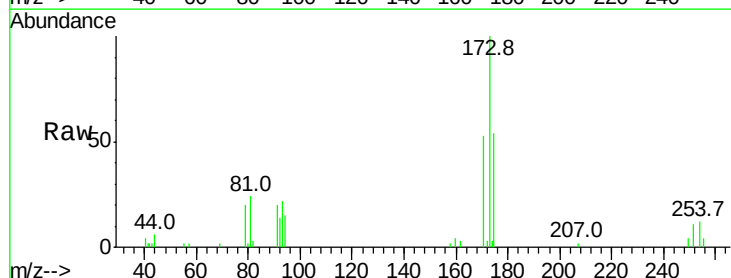
Tgt Ion: 173 Resp: 5692

Ion Ratio Lower Upper

173 100

175 50.0 40.4 60.6

254 12.6 9.8 14.8



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V

4000

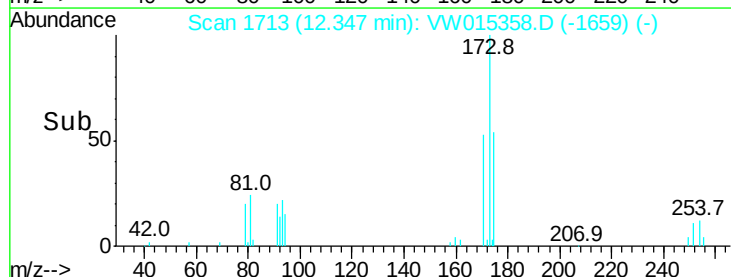
3000

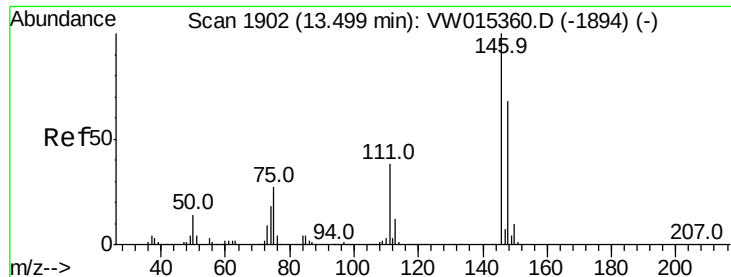
2000

1000

0

Time--> 12.30 12.35 12.40





#63

1,3-Dichlorobenzene

Concen: 2.360 ug/L

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW015358.D

Acq: 28 Apr 2020 13:11

Instrument :

MSVOA\_W

ClientSampleId :

VSTD2.501

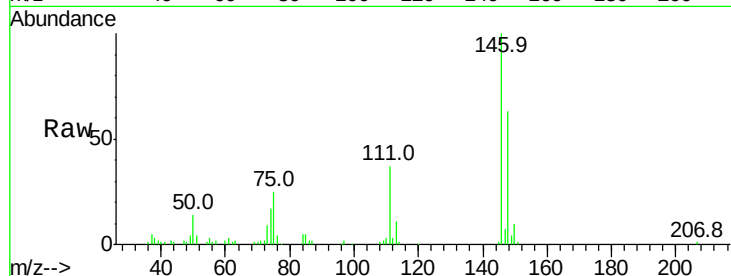
Tgt Ion:146 Resp: 24745

Ion Ratio Lower Upper

146 100

111 36.9 26.6 49.4

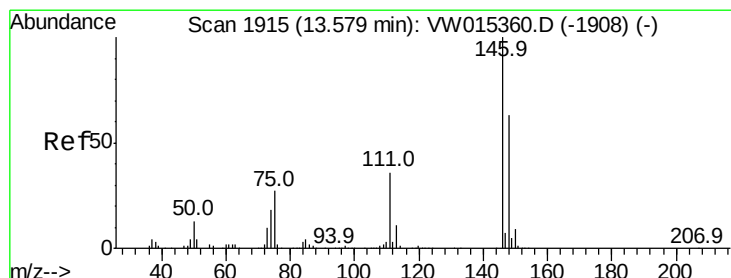
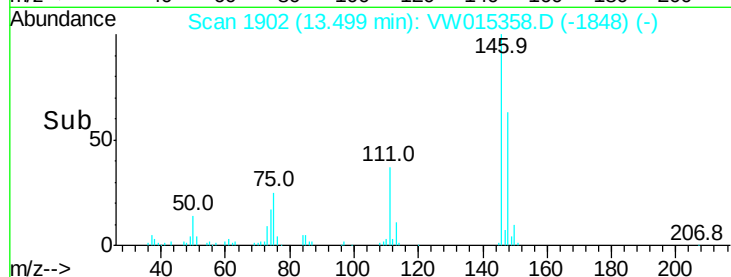
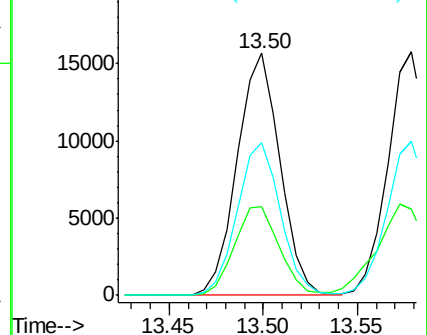
148 63.0 47.5 88.3



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



#64

1,4-Dichlorobenzene

Concen: 2.386 ug/L

RT: 13.58 min Scan# 1915

Delta R.T. -0.00 min

Lab File: VW015358.D

Acq: 28 Apr 2020 13:11

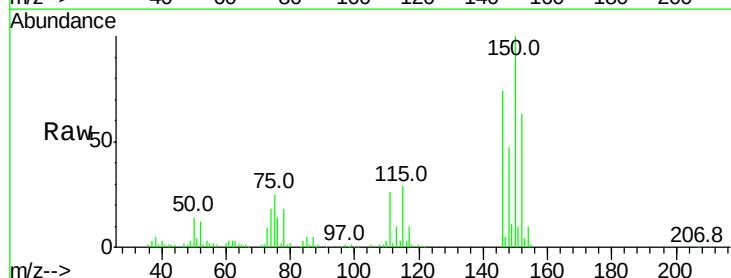
Tgt Ion:146 Resp: 24693

Ion Ratio Lower Upper

146 100

111 35.2 25.5 47.3

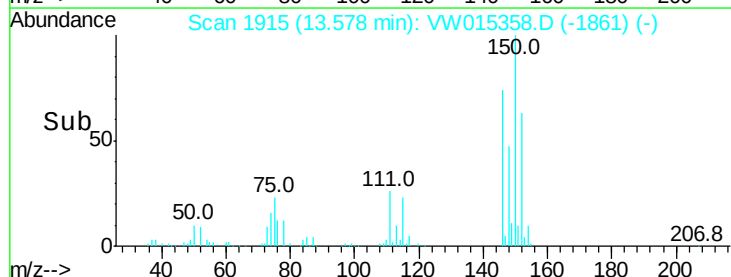
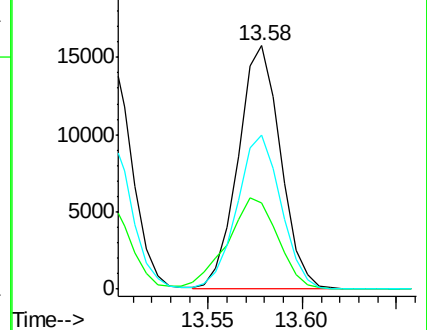
148 63.0 44.2 82.2

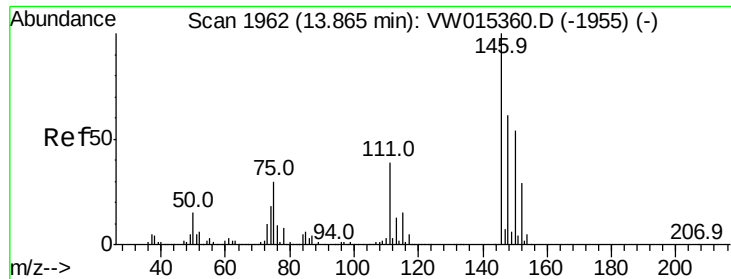


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

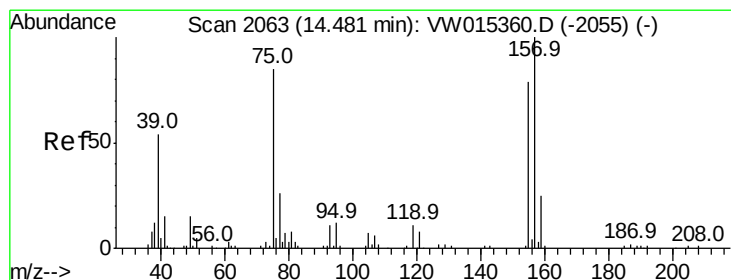
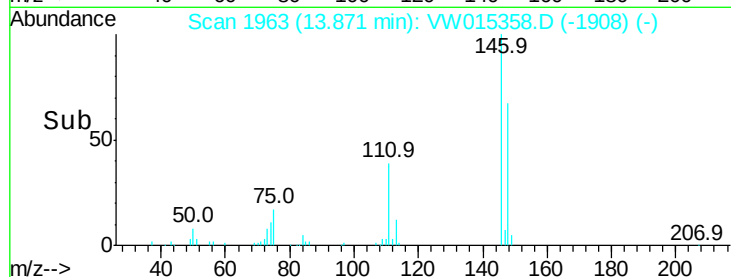
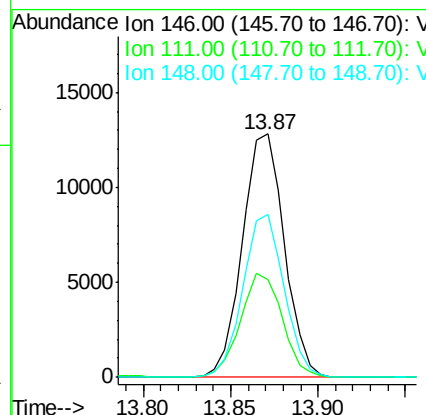
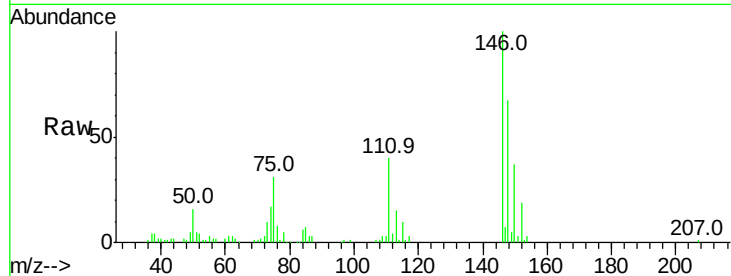




#65  
 1,2-Dichlorobenzene  
 Concen: 2.284 ug/L  
 RT: 13.87 min Scan# 1963  
 Delta R.T. 0.01 min  
 Lab File: VW015358.D  
 Acq: 28 Apr 2020 13:11

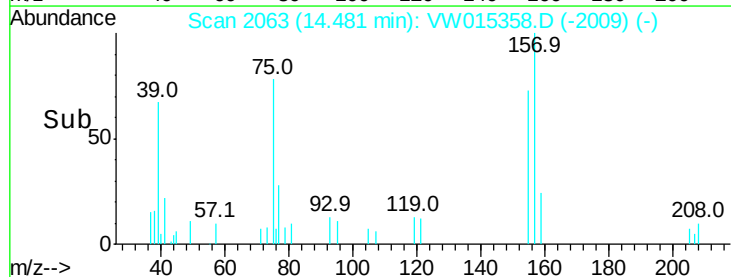
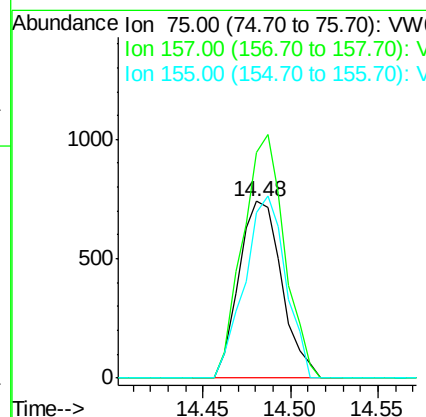
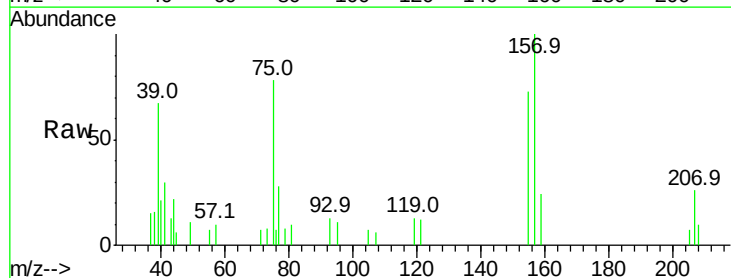
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD2.501

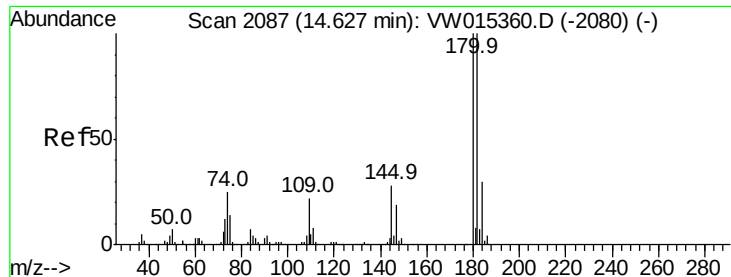
Tgt Ion:146 Resp: 21426  
 Ion Ratio Lower Upper  
 146 100  
 111 40.3 31.4 47.0  
 148 67.0 48.9 73.3



#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 2.020 ug/L  
 RT: 14.48 min Scan# 2063  
 Delta R.T. -0.00 min  
 Lab File: VW015358.D  
 Acq: 28 Apr 2020 13:11

Tgt Ion: 75 Resp: 1260  
 Ion Ratio Lower Upper  
 75 100  
 157 127.7 94.6 141.8  
 155 93.6 75.0 112.6

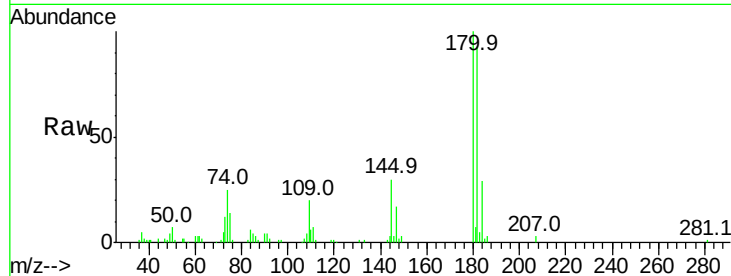




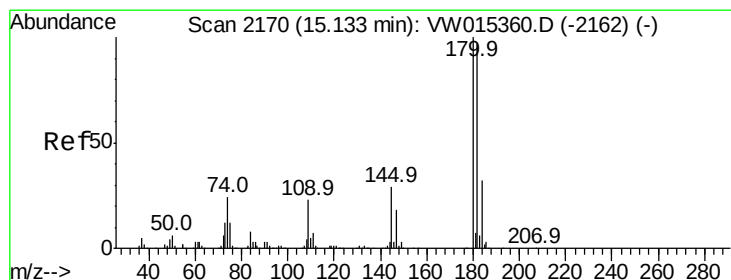
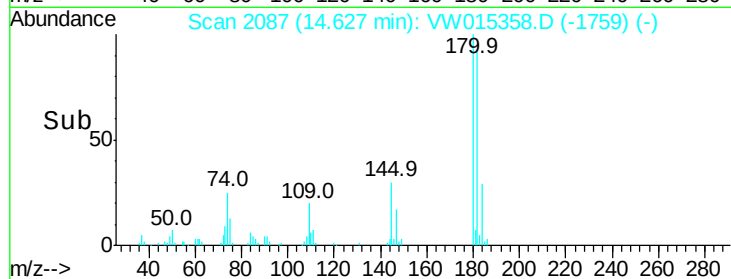
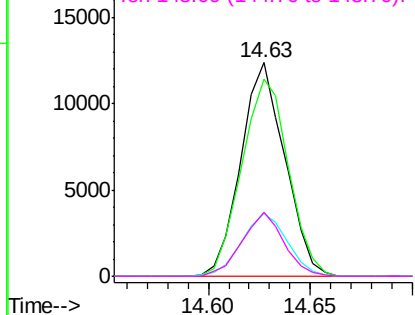
#67  
 1,3,5-Trichlorobenzene  
 Concen: 2.366 ug/L  
 RT: 14.63 min Scan# 2087  
 Delta R.T. -0.00 min  
 Lab File: VW015358.D  
 Acq: 28 Apr 2020 13:11

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD2.501

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 18504 |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 98.3  | 78.3  | 117.5 |
| 184      | 30.5  | 25.0  | 37.4  |
| 145      | 28.6  | 22.9  | 34.3  |

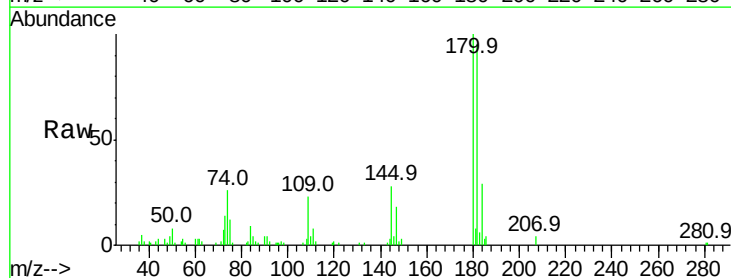


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

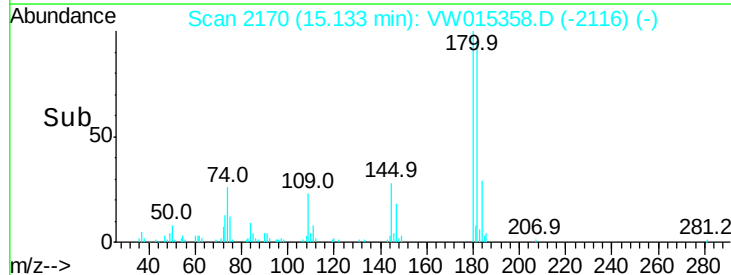
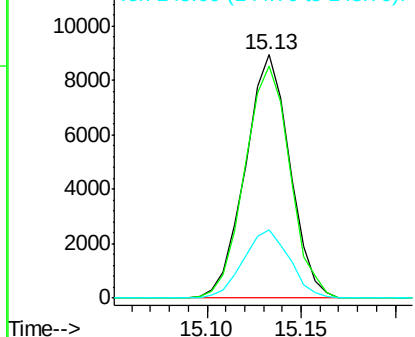


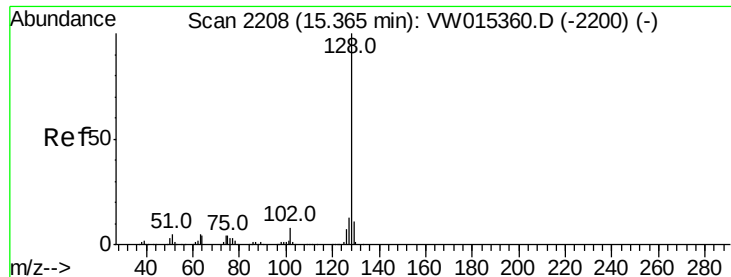
#68  
 1,2,4-trichlorobenzene  
 Concen: 2.356 ug/L  
 RT: 15.13 min Scan# 2170  
 Delta R.T. -0.00 min  
 Lab File: VW015358.D  
 Acq: 28 Apr 2020 13:11

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 14687 |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 96.5  | 77.9  | 116.9 |
| 145      | 29.1  | 22.8  | 34.2  |



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: 2.275 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. -0.00 min

Lab File: VW015358.D

Acq: 28 Apr 2020 13:11

Instrument :

MSVOA\_W

ClientSampleId :

VSTD2.501

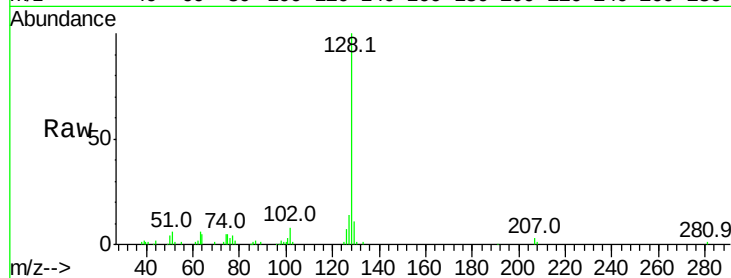
Tgt Ion:128 Resp: 23932

Ion Ratio Lower Upper

128 100

129 11.2 8.6 13.0

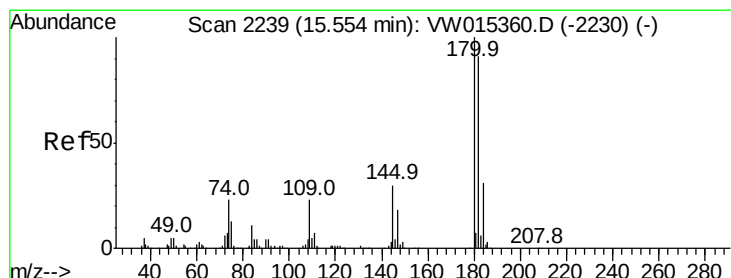
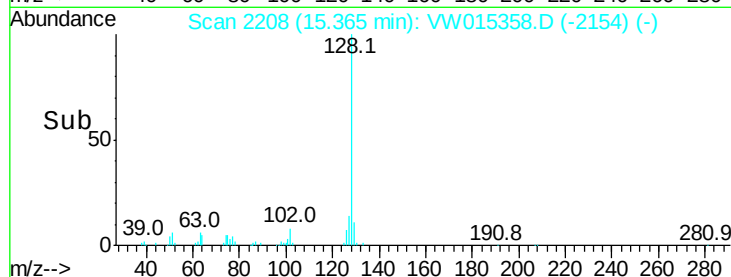
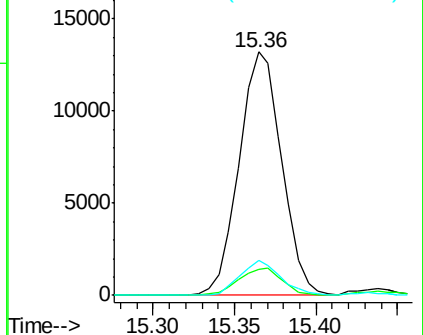
127 13.6 10.2 15.4



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: 2.329 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. -0.00 min

Lab File: VW015358.D

Acq: 28 Apr 2020 13:11

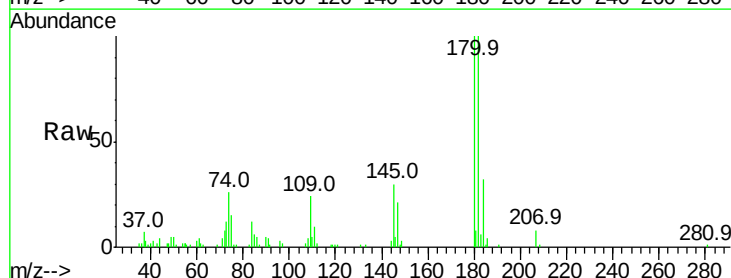
Tgt Ion:180 Resp: 12496

Ion Ratio Lower Upper

180 100

182 95.4 75.8 113.6

145 29.4 24.4 36.6



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

