

Data Path : W:\HPCHEM1\MSVOA\_X\DATA\VX040818\  
 Data File : VX000728.D  
 Acq On : 08 Apr 2018 13:57  
 Operator : JC/MD  
 Sample : J2190-02  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-20-040218

Quant Time: Apr 09 06:40:36 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X040718W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Apr 07 17:01:21 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 326256   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 455199   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 423262   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.09 | 152  | 247727   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.08  | 65   | 165863   | 44.46 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 88.92% |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 139651   | 47.47 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.94% |          |
| 50) Toluene-d8              | 8.72  | 98   | 526369   | 47.21 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.42% |          |
| 62) 4-Bromofluorobenzene    | 11.15 | 95   | 212960   | 45.98 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 91.96% |          |

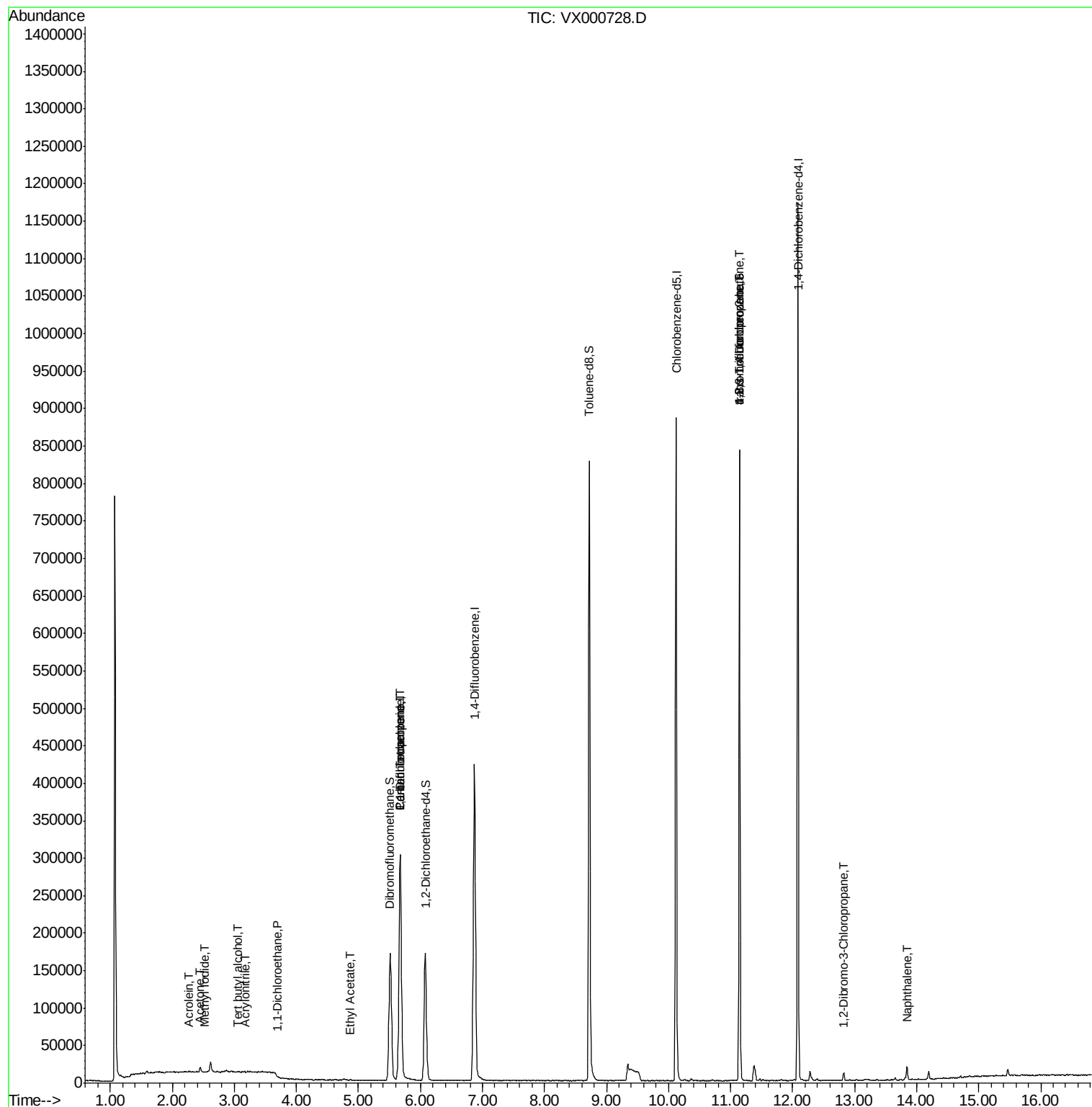
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 3) Chloromethane               | 1.32  | 50   | 311      | Below Cal |       | 91     |
| 5) Bromomethane                | 1.63  | 94   | 42       | Below Cal | #     | 50     |
| 8) Diethyl Ether               | 2.19  | 74   | 120      | Below Cal |       | 98     |
| 10) Methyl Iodide              | 2.52  | 142  | 368      | 5.48      | ug/l  | # 58   |
| 11) Tert butyl alcohol         | 3.06  | 59   | 457      | 0.72      | ug/l  | # 1    |
| 13) Acrolein                   | 2.26  | 56   | 148      | 0.53      | ug/l  | # 1    |
| 15) Acrylonitrile              | 3.16  | 53   | 331      | 0.25      | ug/l  | # 89   |
| 16) Acetone                    | 2.45  | 43   | 6935     | 5.93      | ug/l  | 96     |
| 17) Carbon Disulfide           | 2.58  | 76   | 737      | Below Cal | #     | 50     |
| 20) Methylene Chloride         | 2.87  | 84   | 945      | Below Cal |       | 85     |
| 24) 1,1-Dichloroethane         | 3.70  | 63   | 1123     | 0.24      | ug/l  | # 84   |
| 31) Cyclohexane                | 5.58  | 56   | 779      | Below Cal | #     | 55     |
| 36) 1,1-Dichloropropene        | 5.67  | 75   | 19861    | 5.09      | ug/l  | # 50   |
| 37) Ethyl Acetate              | 4.87  | 43   | 1734     | 0.41      | ug/l  | # 83   |
| 38) Carbon Tetrachloride       | 5.68  | 117  | 27751    | 6.07      | ug/l  | # 15   |
| 39) Methylcyclohexane          | 7.46  | 83   | 268      | Below Cal | #     | 59     |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75   | 105776   | 25.10     | ug/l  | # 35   |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75   | 105776   | 65.34     | ug/l  | # 10   |
| 92) 1,2-Dibromo-3-Chloropropan | 12.83 | 75   | 263      | 0.23      | ug/l  | # 1    |
| 95) Naphthalene                | 13.84 | 128  | 11923    | 0.70      | ug/l  | 99     |

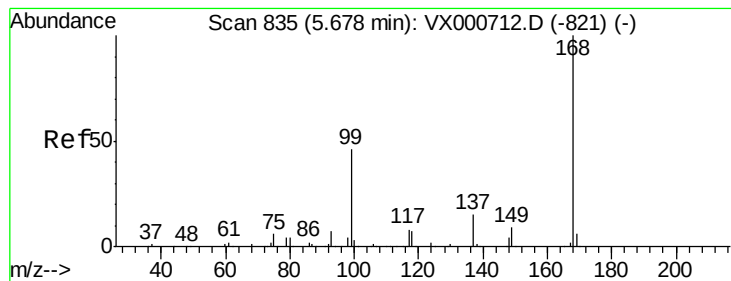
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Sat Apr 07 17:01:21 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.01 min

Lab File: VX000728.D

Acq: 08 Apr 2018 13:57

Instrument :

MSVOA\_X

ClientSampleId :

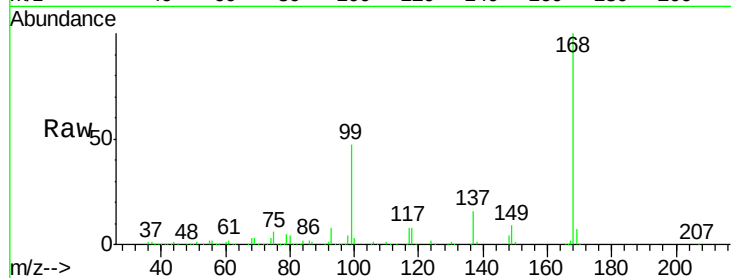
MW-20-040218

Tgt Ion:168 Resp: 326256

Ion Ratio Lower Upper

168 100

99 47.4 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

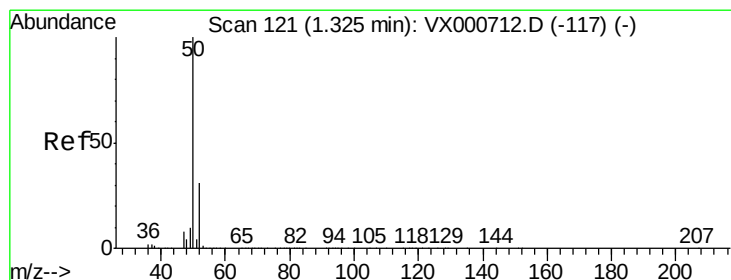
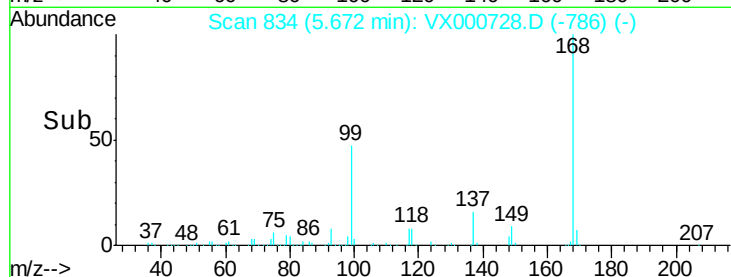
5.67

100000

50000

0

Time--> 5.50 5.60 5.70 5.80 5.90



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX000728.D

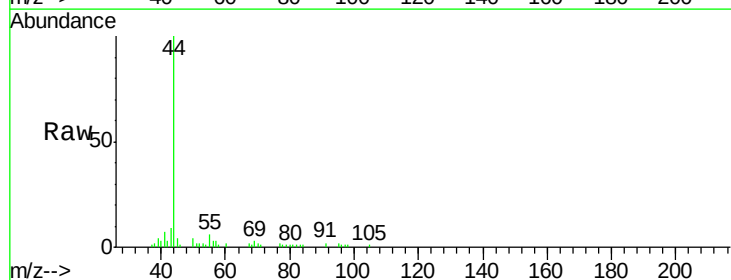
Acq: 08 Apr 2018 13:57

Tgt Ion: 50 Resp: 311

Ion Ratio Lower Upper

50 100

52 36.2 24.9 37.3



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

250

200

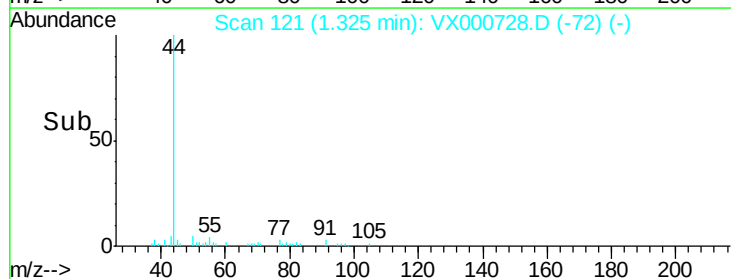
150

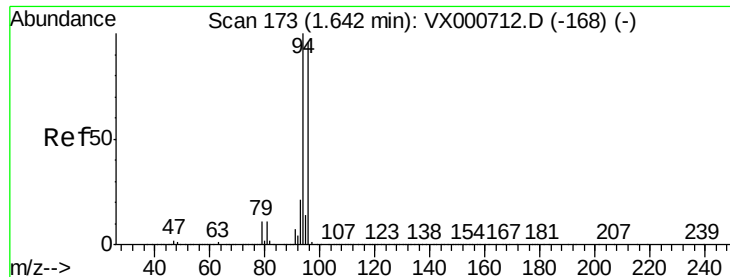
100

50

0

Time--> 1.28 1.30 1.32 1.34





#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 171

Delta R.T. -0.01 min

Lab File: VX000728.D

Acq: 08 Apr 2018 13:57

Instrument :

MSVOA\_X

ClientSampleId :

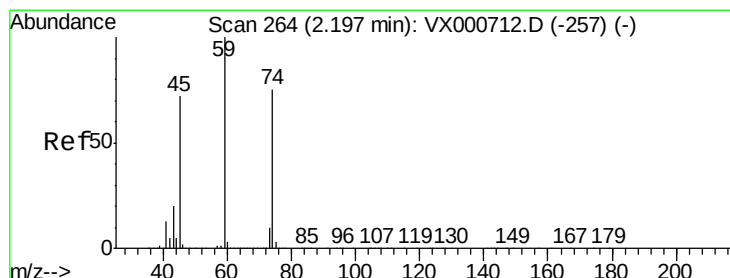
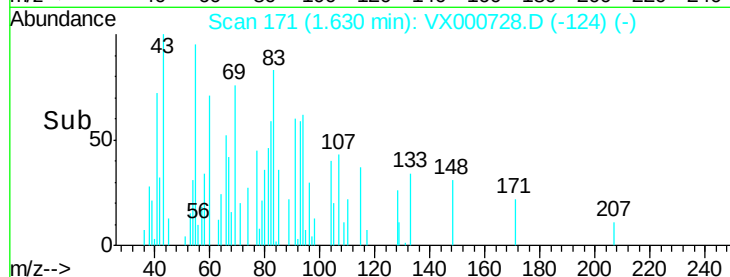
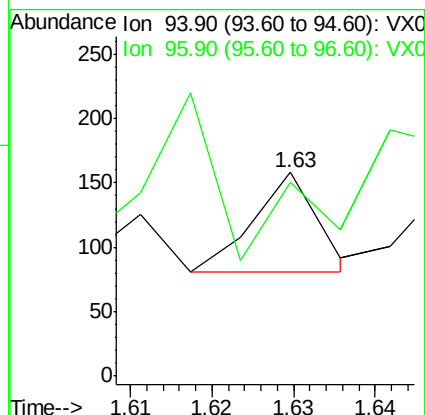
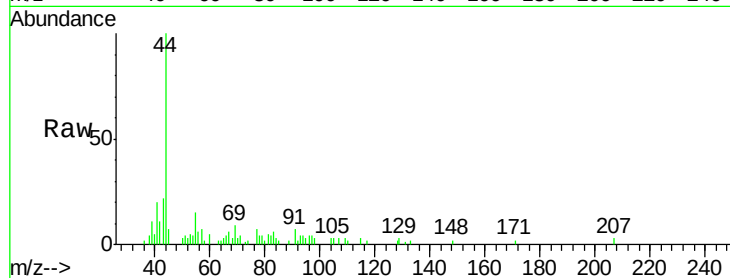
MW-20-040218

Tgt Ion: 94 Resp: 42

Ion Ratio Lower Upper

94 100

96 46.8 76.5 114.7#



#8

Diethyl Ether

Concen: Below Cal

RT: 2.19 min Scan# 263

Delta R.T. -0.01 min

Lab File: VX000728.D

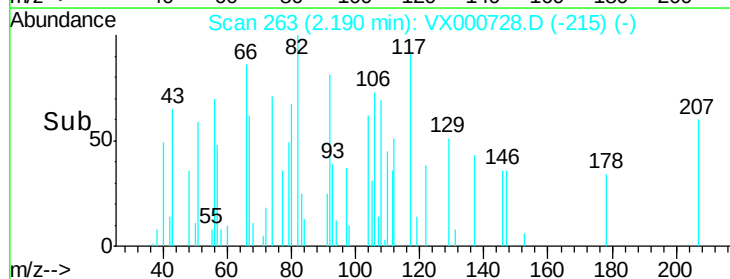
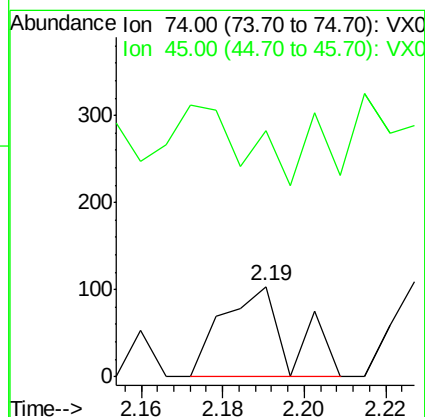
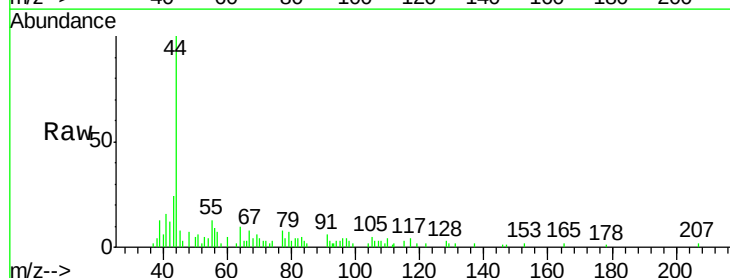
Acq: 08 Apr 2018 13:57

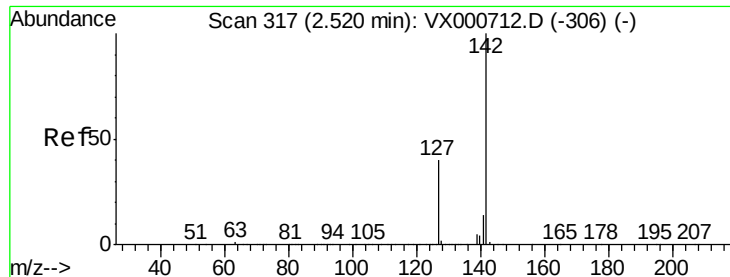
Tgt Ion: 74 Resp: 120

Ion Ratio Lower Upper

74 100

45 95.0 48.4 145.3

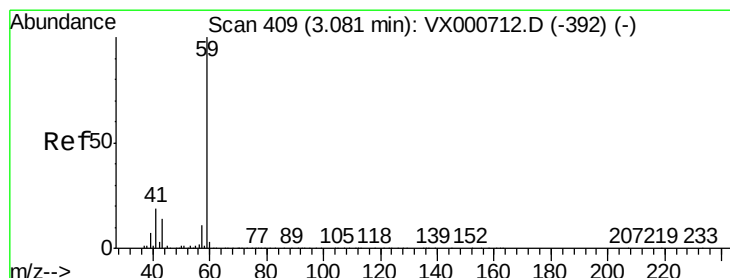
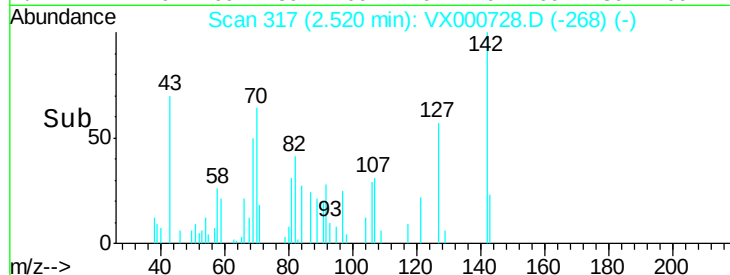
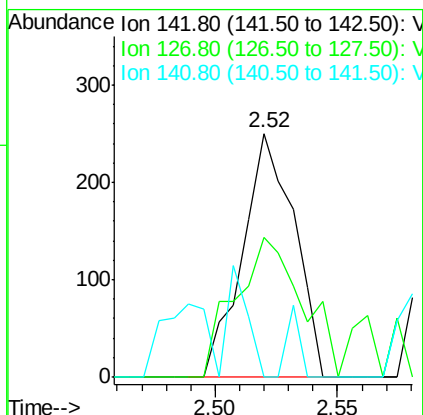
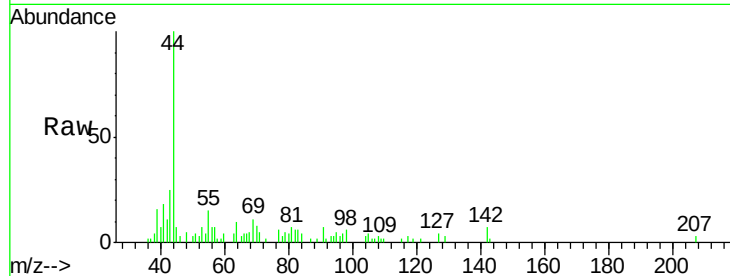




#10  
Methyl Iodide  
Concen: 5.48 ug/l  
RT: 2.52 min Scan# 317  
Delta R.T. 0.00 min  
Lab File: VX000728.D  
Acq: 08 Apr 2018 13:57

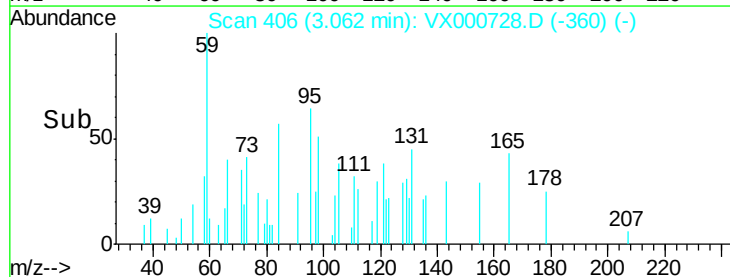
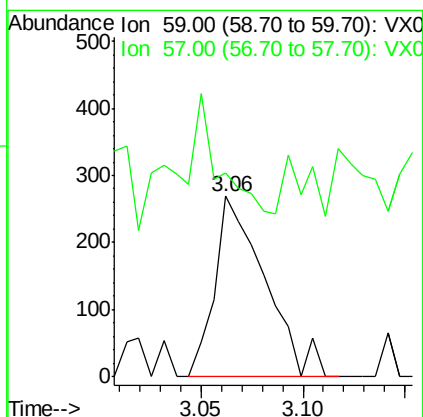
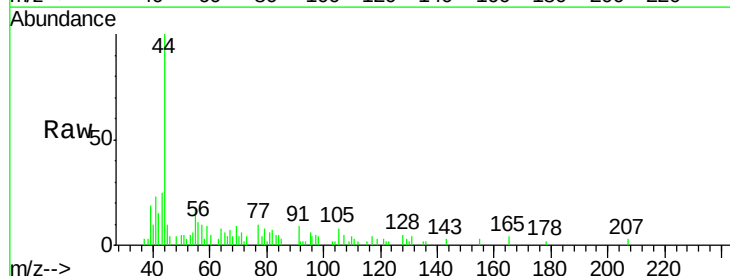
Instrument :  
MSVOA\_X  
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MW-20-040218

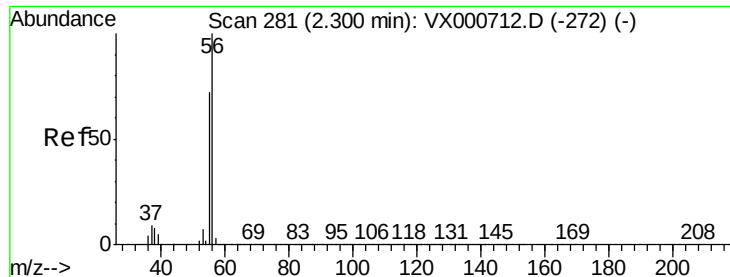
Tgt Ion:142 Resp: 368  
Ion Ratio Lower Upper  
142 100  
127 74.2 33.9 50.9#  
141 7.3 11.4 17.0#



#11  
Tert butyl alcohol  
Concen: 0.72 ug/l  
RT: 3.06 min Scan# 406  
Delta R.T. -0.02 min  
Lab File: VX000728.D  
Acq: 08 Apr 2018 13:57

Tgt Ion: 59 Resp: 457  
Ion Ratio Lower Upper  
59 100  
57 69.8 8.4 12.6#





#13

Acrolein

Concen: 0.53 ug/l

RT: 2.26 min Scan# 275

Delta R.T. -0.04 min

Lab File: VX000728.D

Acq: 08 Apr 2018 13:57

Instrument :

MSVOA\_X

ClientSampleId :

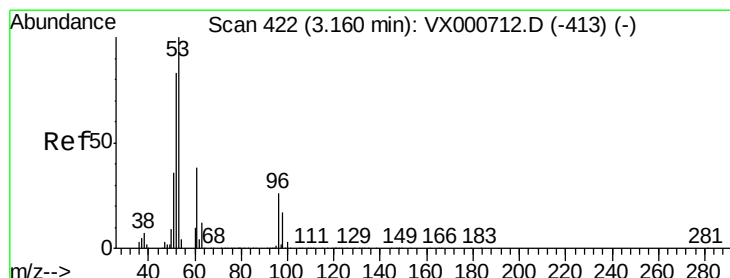
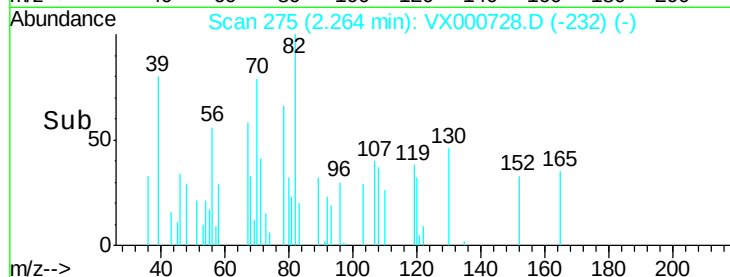
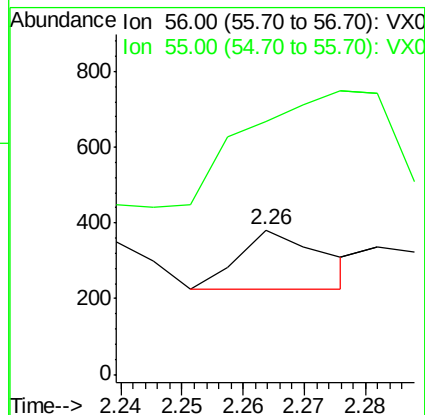
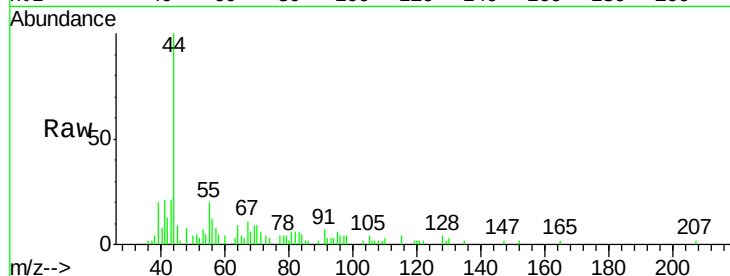
MW-20-040218

Tgt Ion: 56 Resp: 148

Ion Ratio Lower Upper

56 100

55 444.6 57.4 86.2#



#15

Acrylonitrile

Concen: 0.25 ug/l

RT: 3.16 min Scan# 422

Delta R.T. -0.00 min

Lab File: VX000728.D

Acq: 08 Apr 2018 13:57

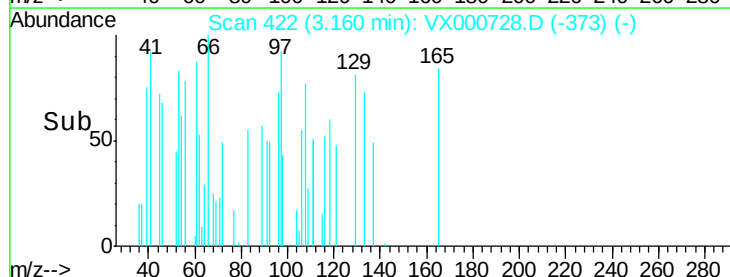
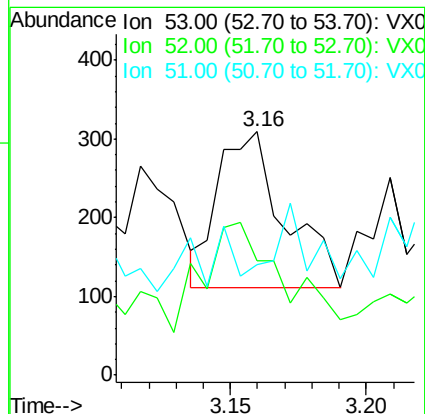
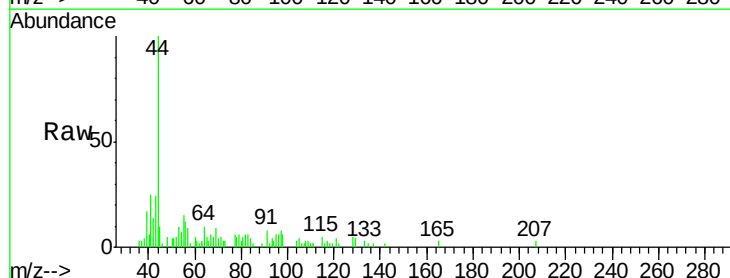
Tgt Ion: 53 Resp: 331

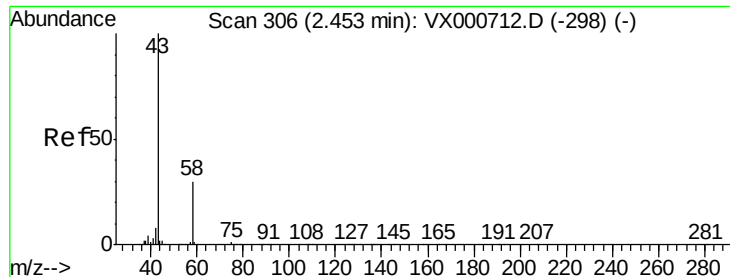
Ion Ratio Lower Upper

53 100

52 85.2 66.1 99.1

51 19.9 29.1 43.7#





#16

Acetone

Concen: 5.93 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX000728.D

Acq: 08 Apr 2018 13:57

Instrument :

MSVOA\_X

ClientSampleId :

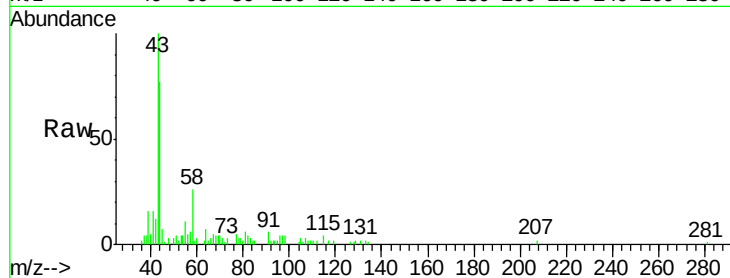
MW-20-040218

Tgt Ion: 43 Resp: 6935

Ion Ratio Lower Upper

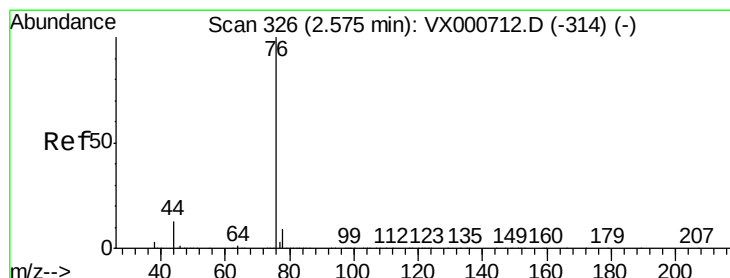
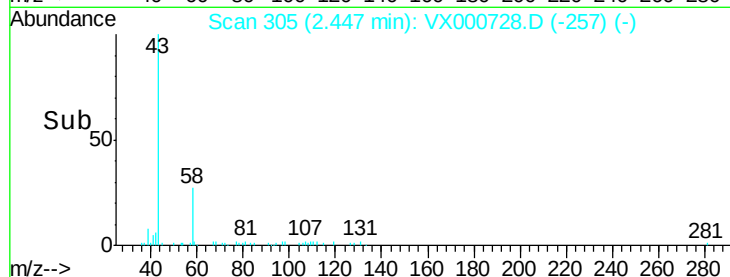
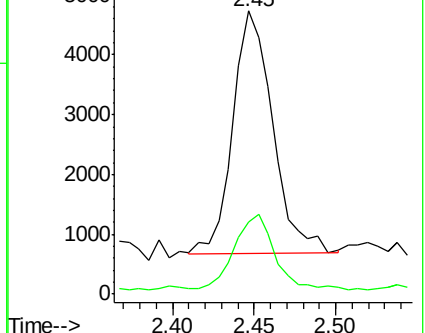
43 100

58 27.7 24.0 36.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: Below Cal

RT: 2.58 min Scan# 327

Delta R.T. 0.01 min

Lab File: VX000728.D

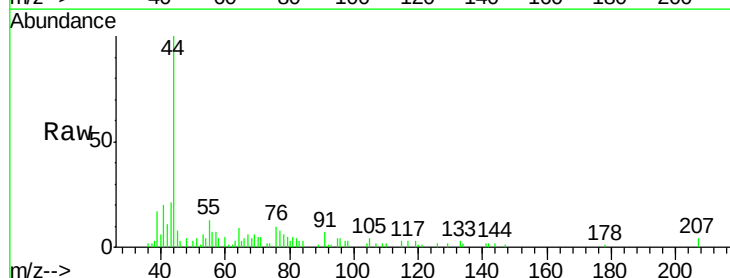
Acq: 08 Apr 2018 13:57

Tgt Ion: 76 Resp: 737

Ion Ratio Lower Upper

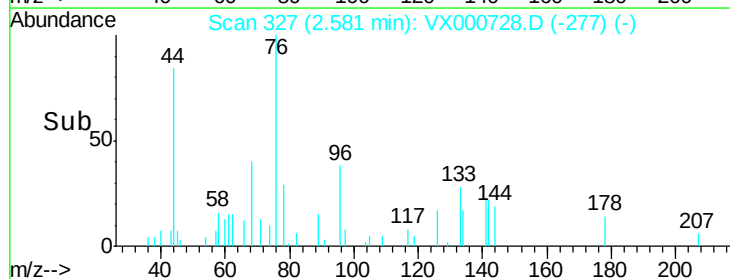
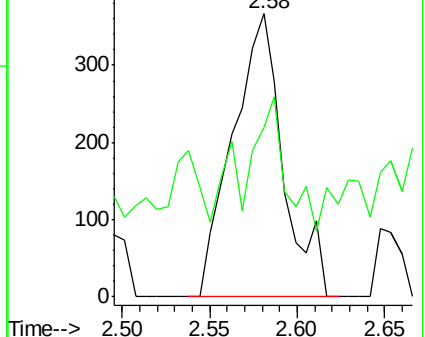
76 100

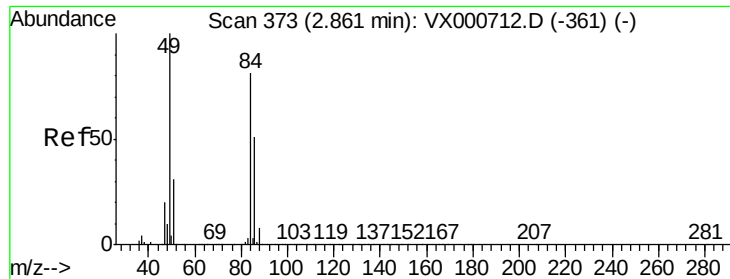
78 27.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

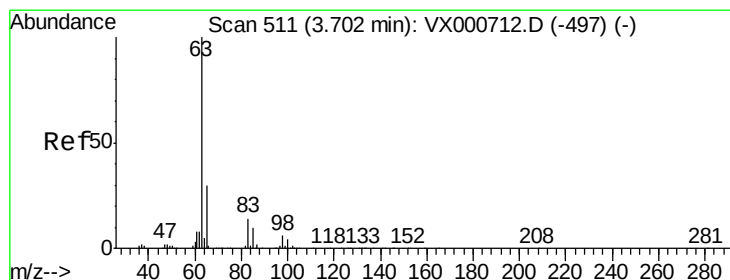
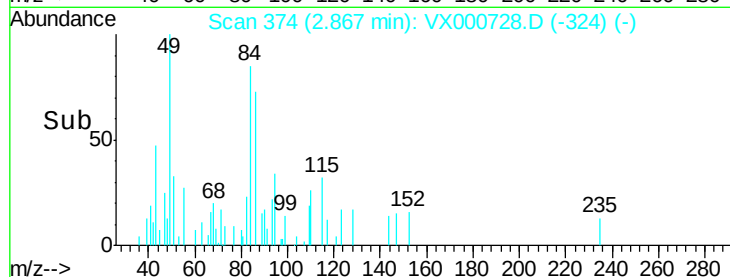
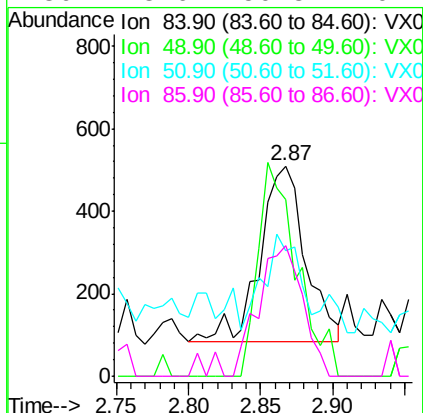
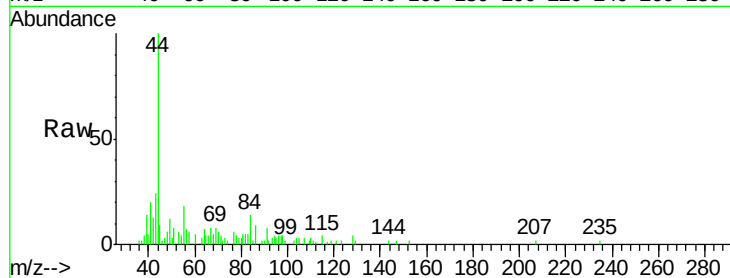




#20  
Methylene Chloride  
Concen: Below Cal  
RT: 2.87 min Scan# 374  
Delta R.T. 0.01 min  
Lab File: VX000728.D  
Acq: 08 Apr 2018 13:57

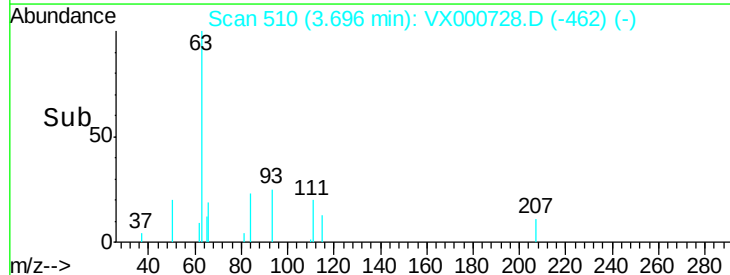
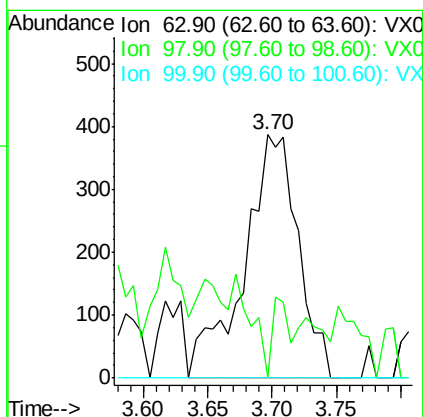
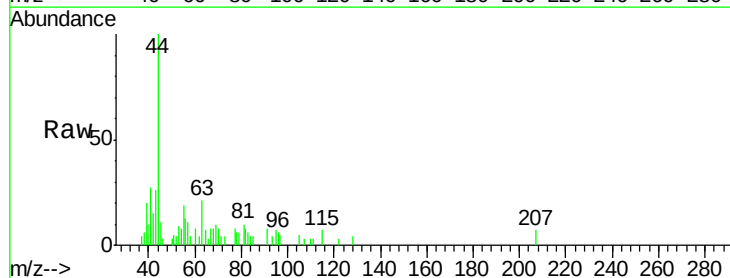
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-20-040218

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 945   |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 100.2 | 98.6  | 148.0 |
| 51       | 37.4  | 30.8  | 46.2  |
| 86       | 73.6  | 50.8  | 76.2  |

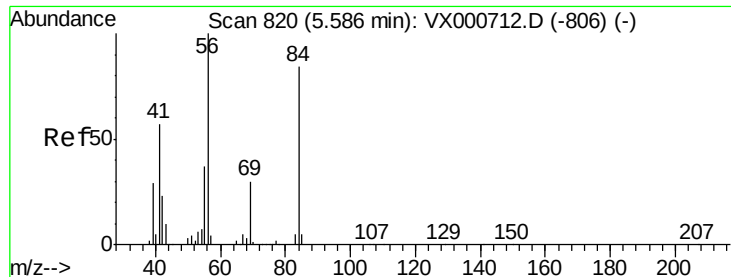


#24  
1,1-Dichloroethane  
Concen: 0.24 ug/l  
RT: 3.70 min Scan# 510  
Delta R.T. -0.01 min  
Lab File: VX000728.D  
Acq: 08 Apr 2018 13:57

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 63    | Resp: | 1123  |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 98       | 0.0   | 2.9   | 8.8#  |
| 100      | 0.0   | 2.1   | 6.3#  |



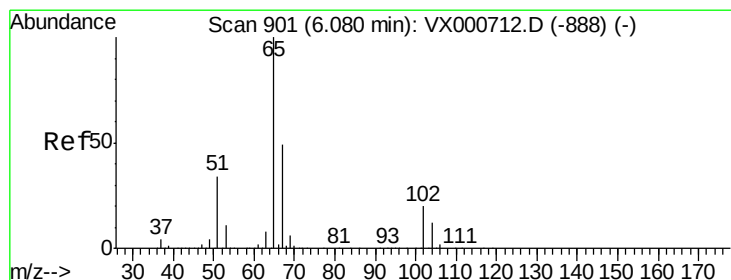
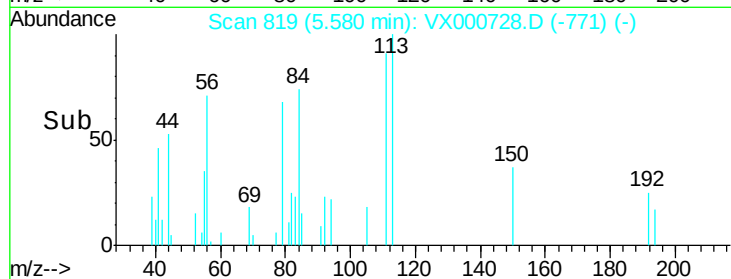
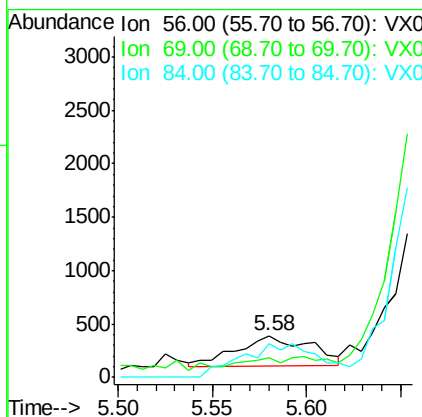
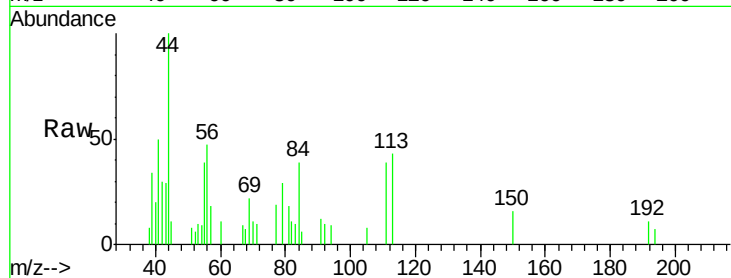




#31  
Cyclohexane  
Concen: Below Cal  
RT: 5.58 min Scan# 819  
Delta R.T. -0.01 min  
Lab File: VX000728.D  
Acq: 08 Apr 2018 13:57

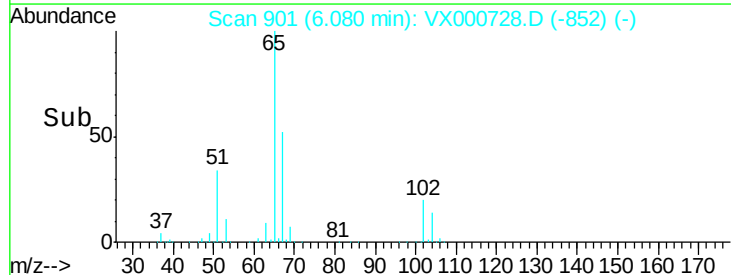
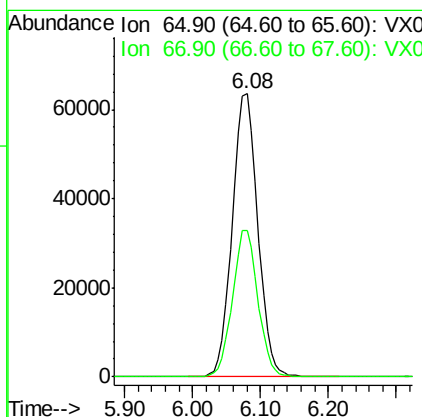
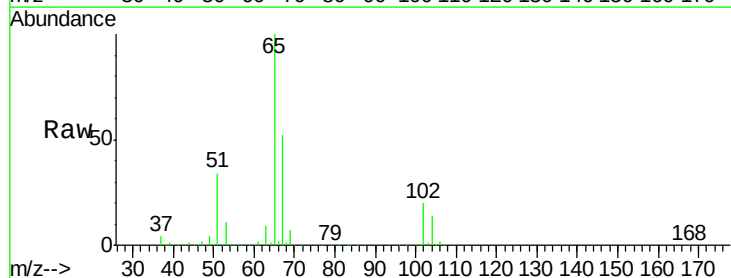
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-20-040218

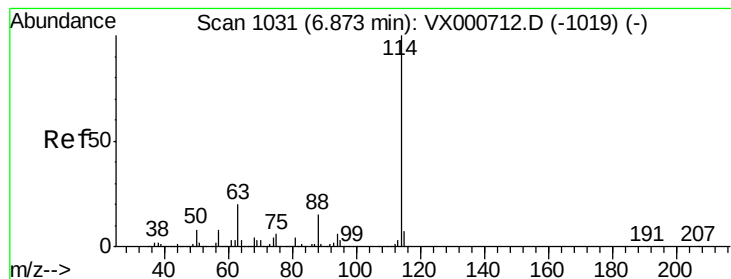
Tgt Ion: 56 Resp: 779  
Ion Ratio Lower Upper  
56 100  
69 48.4 23.8 35.6#  
84 128.4 67.4 101.2#



#33  
1,2-Dichloroethane-d4  
Concen: 44.46 ug/l  
RT: 6.08 min Scan# 901  
Delta R.T. -0.00 min  
Lab File: VX000728.D  
Acq: 08 Apr 2018 13:57

Tgt Ion: 65 Resp: 165863  
Ion Ratio Lower Upper  
65 100  
67 51.5 0.0 102.6





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VX000728.D

Acq: 08 Apr 2018 13:57

Instrument :

MSVOA\_X

ClientSampleId :

MW-20-040218

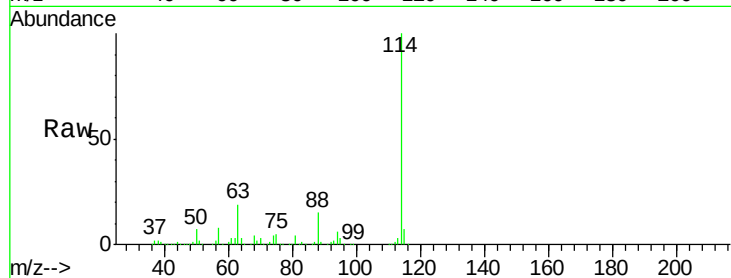
Tgt Ion:114 Resp: 455199

Ion Ratio Lower Upper

114 100

63 19.3 0.0 39.6

88 15.2 0.0 30.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

250000

200000

150000

100000

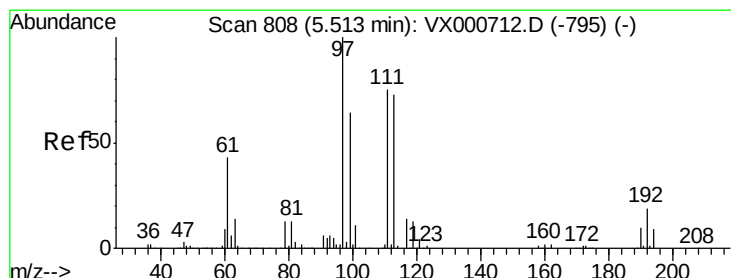
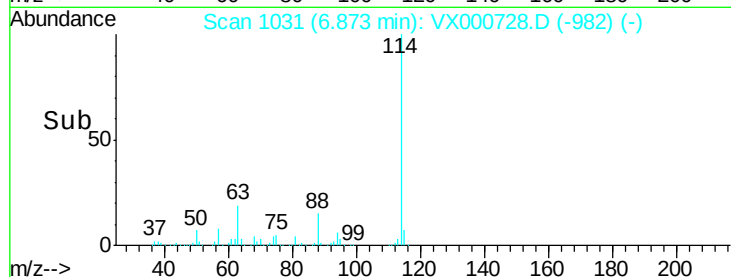
50000

0

6.87

6.80 7.00 7.20

Time-->



#35

Dibromofluoromethane

Concen: 47.47 ug/l

RT: 5.51 min Scan# 808

Delta R.T. -0.00 min

Lab File: VX000728.D

Acq: 08 Apr 2018 13:57

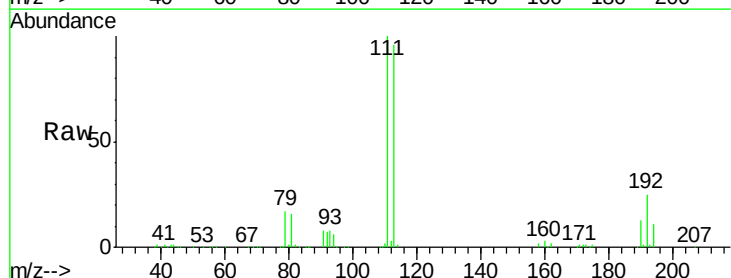
Tgt Ion:113 Resp: 139651

Ion Ratio Lower Upper

113 100

111 102.7 81.5 122.3

192 25.9 20.0 30.0



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

60000

40000

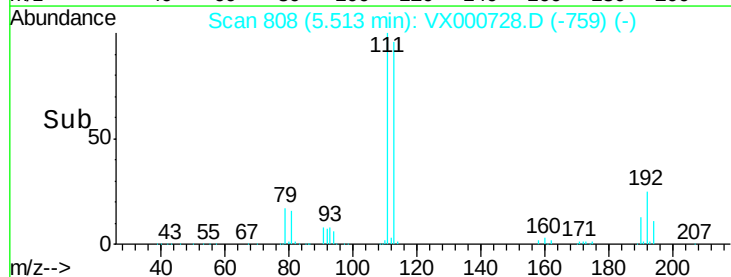
20000

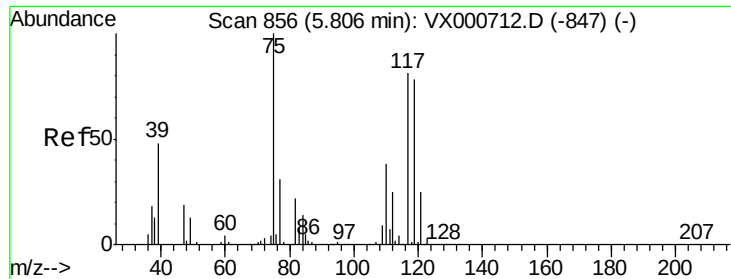
0

5.51

5.40 5.60

Time-->

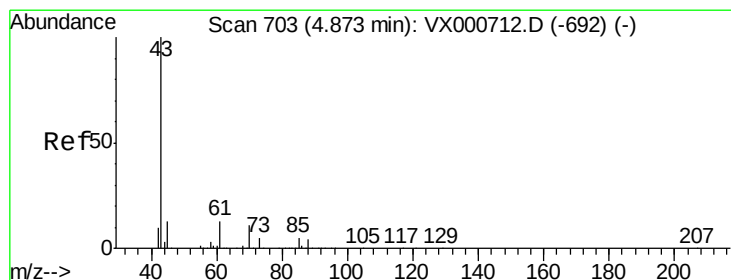
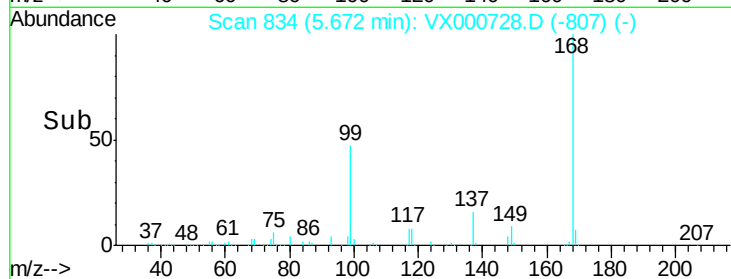
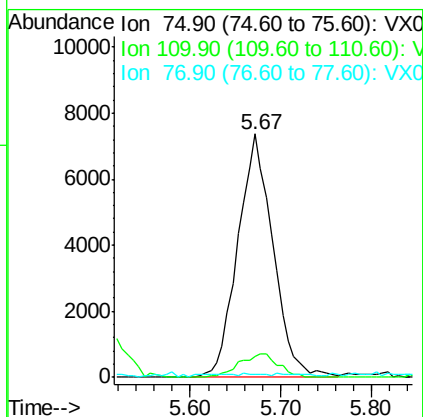
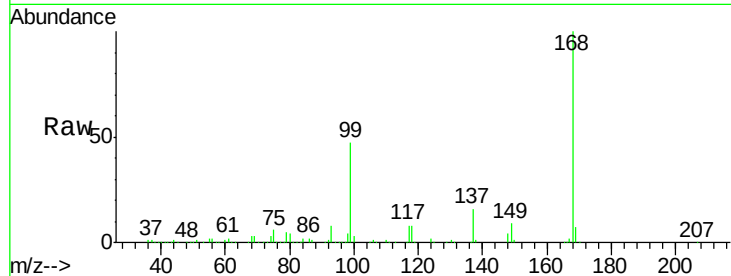




#36  
 1,1-Dichloropropene  
 Concen: 5.09 ug/l  
 RT: 5.67 min Scan# 834  
 Delta R.T. -0.13 min  
 Lab File: VX000728.D  
 Acq: 08 Apr 2018 13:57

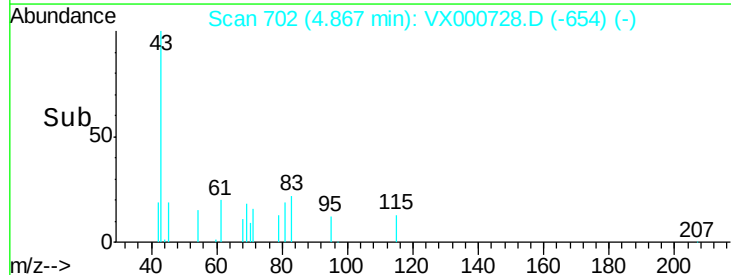
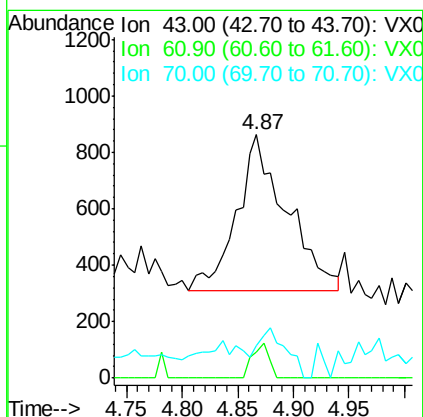
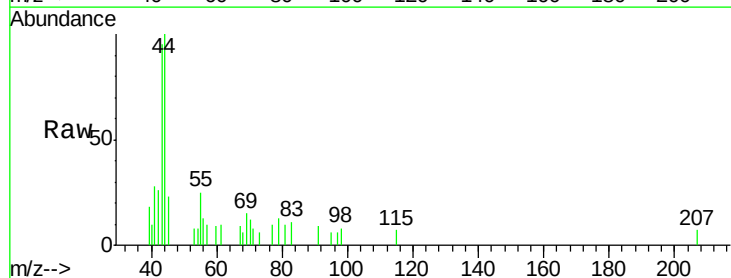
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-20-040218

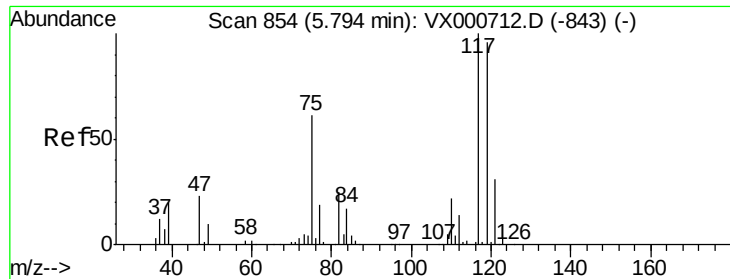
Tgt Ion: 75 Resp: 19861  
 Ion Ratio Lower Upper  
 75 100  
 110 10.5 18.6 56.0#  
 77 0.4 24.6 37.0#



#37  
 Ethyl Acetate  
 Concen: 0.41 ug/l  
 RT: 4.87 min Scan# 702  
 Delta R.T. -0.01 min  
 Lab File: VX000728.D  
 Acq: 08 Apr 2018 13:57

Tgt Ion: 43 Resp: 1734  
 Ion Ratio Lower Upper  
 43 100  
 61 7.4 10.5 15.7#  
 70 17.8 8.4 12.6#





#38

Carbon Tetrachloride

Concen: 6.07 ug/l

RT: 5.68 min Scan# 835

Delta R.T. -0.12 min

Lab File: VX000728.D

Acq: 08 Apr 2018 13:57

Instrument :

MSVOA\_X

ClientSampleId :

MW-20-040218

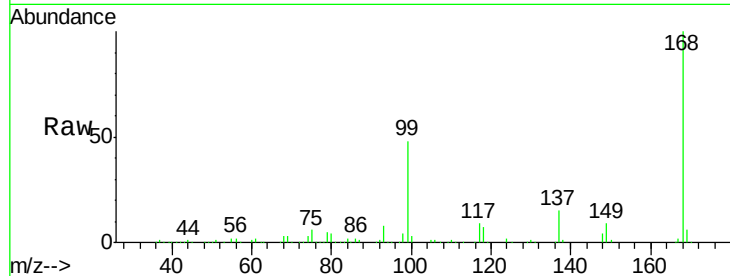
Tgt Ion: 117 Resp: 27751

Ion Ratio Lower Upper

117 100

119 3.4 76.7 115.1#

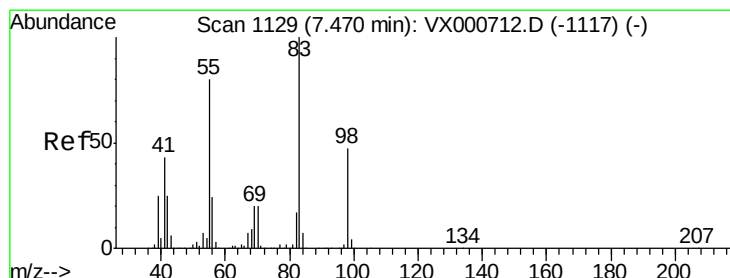
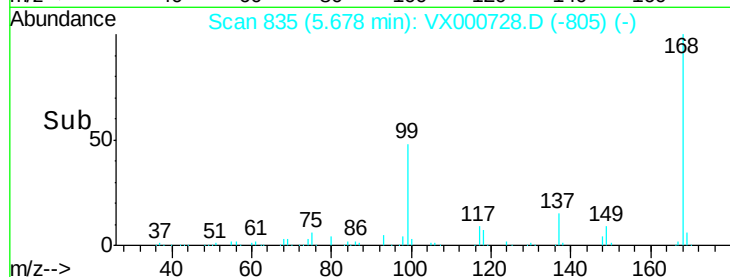
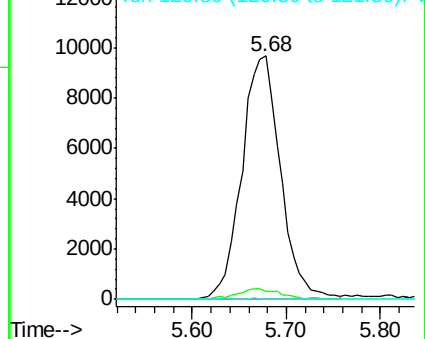
121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: Below Cal

RT: 7.46 min Scan# 1128

Delta R.T. -0.01 min

Lab File: VX000728.D

Acq: 08 Apr 2018 13:57

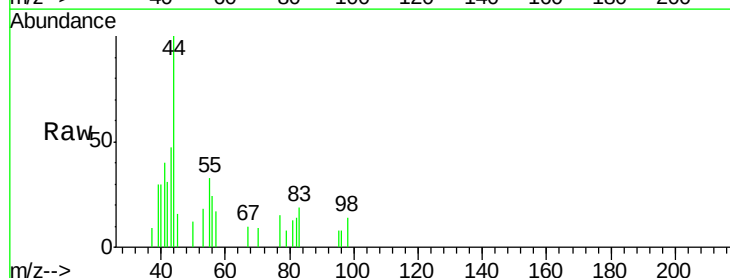
Tgt Ion: 83 Resp: 268

Ion Ratio Lower Upper

83 100

55 37.6 63.7 95.5#

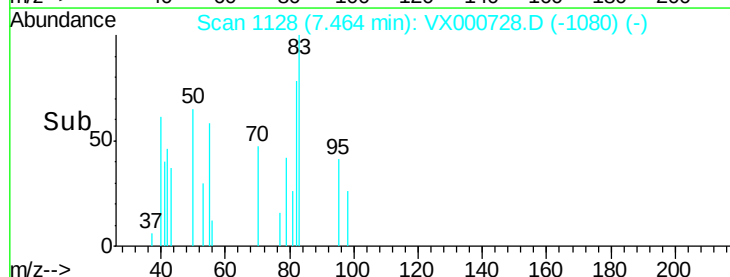
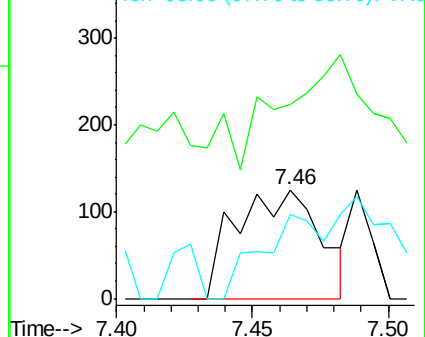
98 27.2 37.2 55.8#

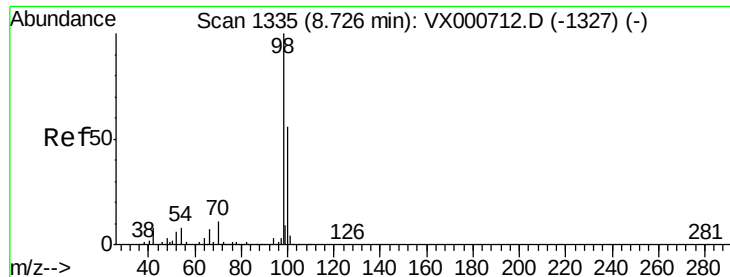


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0

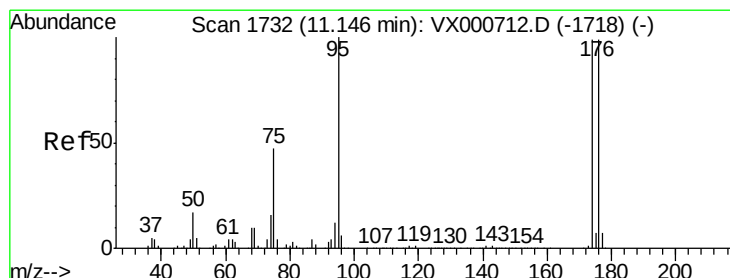
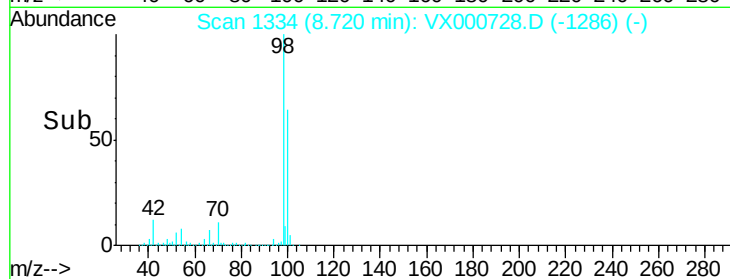
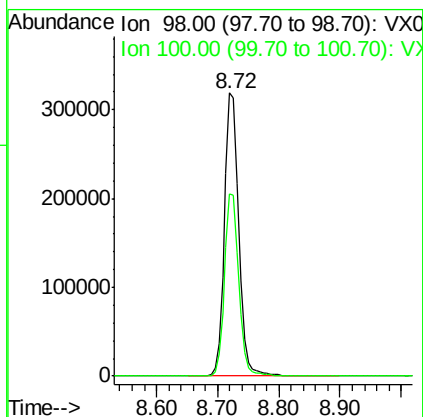
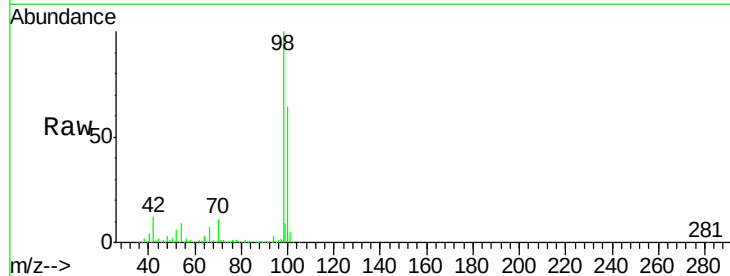




#50  
Toluene-d8  
Concen: 47.21 ug/l  
RT: 8.72 min Scan# 1334  
Delta R.T. -0.01 min  
Lab File: VX000728.D  
Acq: 08 Apr 2018 13:57

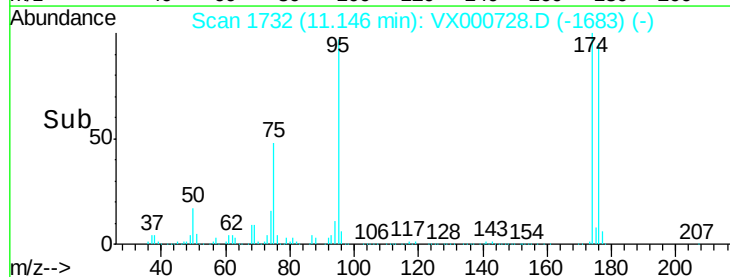
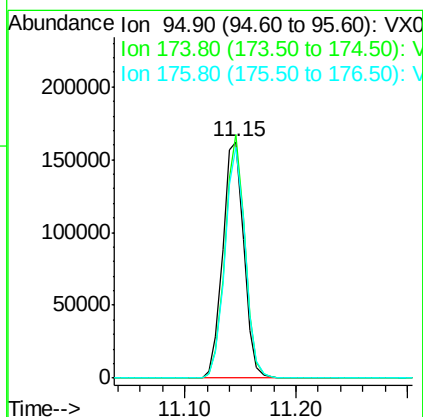
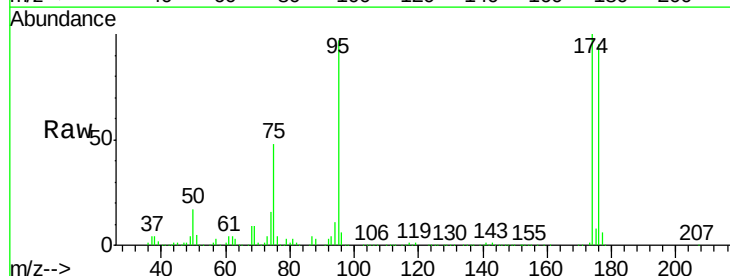
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-20-040218

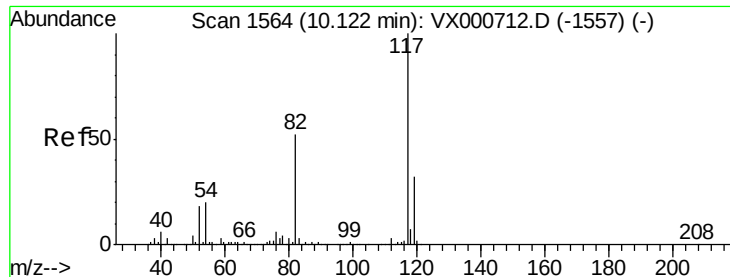
Tgt Ion: 98 Resp: 526369  
Ion Ratio Lower Upper  
98 100  
100 64.3 52.6 78.8



#62  
4-Bromofluorobenzene  
Concen: 45.98 ug/l  
RT: 11.15 min Scan# 1732  
Delta R.T. -0.00 min  
Lab File: VX000728.D  
Acq: 08 Apr 2018 13:57

Tgt Ion: 95 Resp: 212960  
Ion Ratio Lower Upper  
95 100  
174 96.8 0.0 191.6  
176 93.7 0.0 187.0

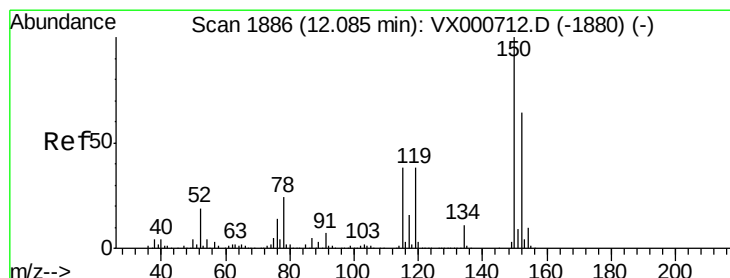
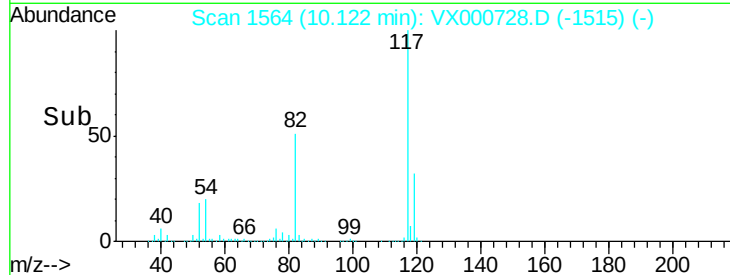
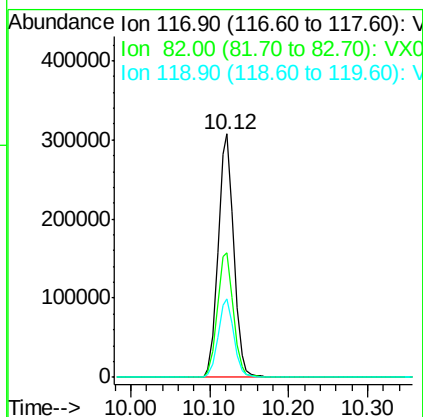
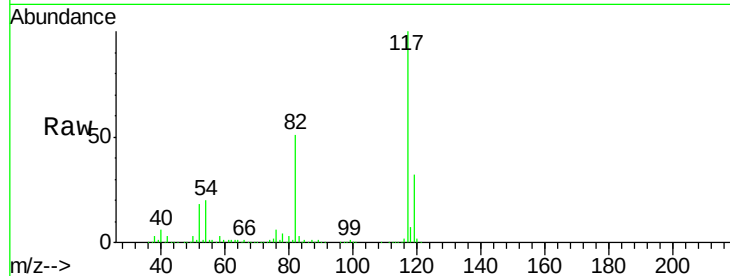




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.12 min Scan# 1564  
Delta R.T. -0.00 min  
Lab File: VX000728.D  
Acq: 08 Apr 2018 13:57

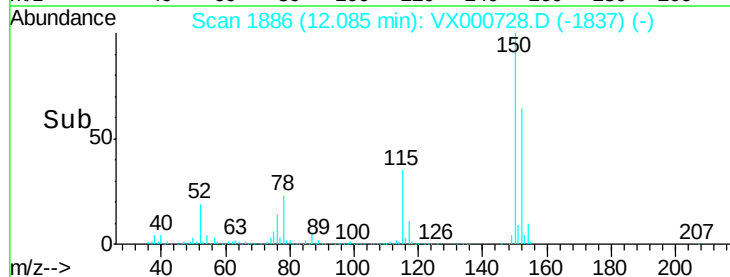
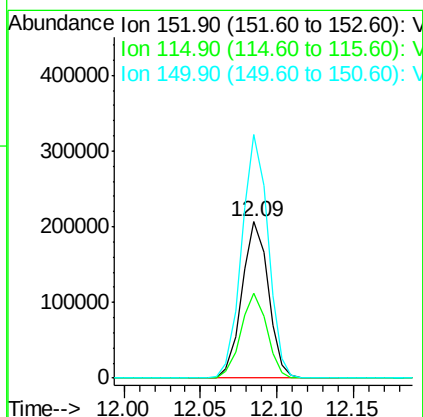
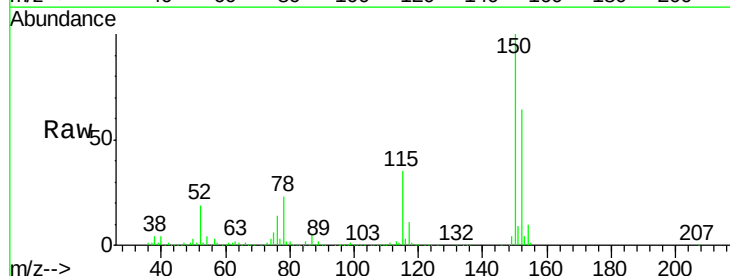
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-20-040218

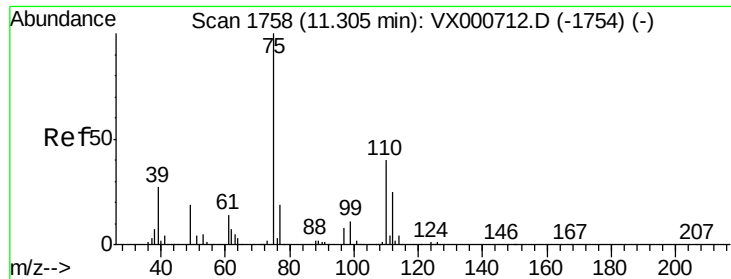
Tgt Ion:117 Resp: 423262  
Ion Ratio Lower Upper  
117 100  
82 51.2 41.9 62.9  
119 32.3 25.8 38.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.09 min Scan# 1886  
Delta R.T. -0.00 min  
Lab File: VX000728.D  
Acq: 08 Apr 2018 13:57

Tgt Ion:152 Resp: 247727  
Ion Ratio Lower Upper  
152 100  
115 53.7 37.7 113.1  
150 155.9 0.0 345.0

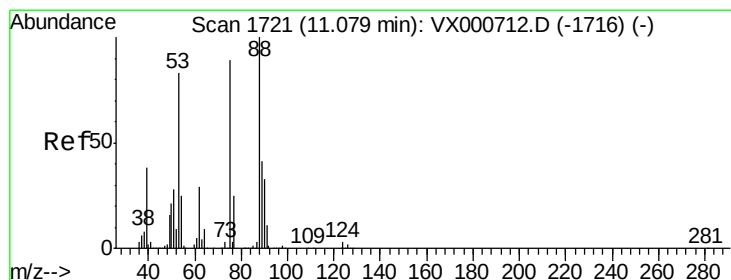
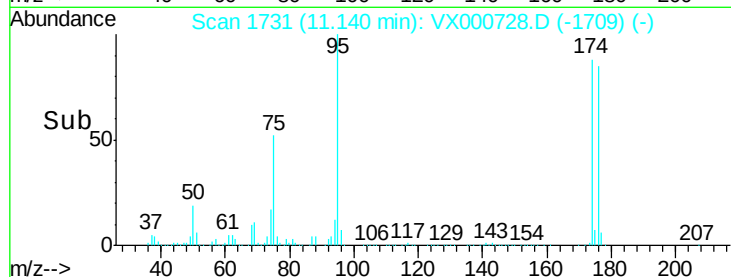
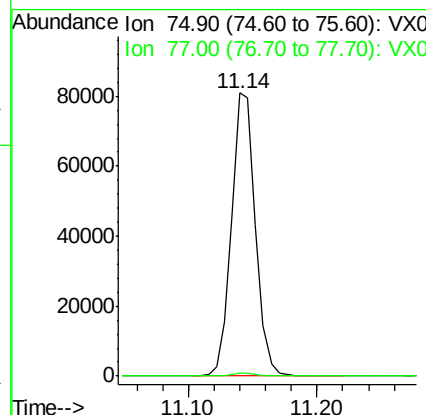
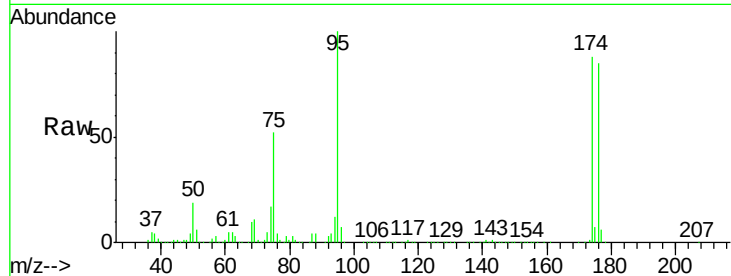




#76  
 1,2,3-Trichloropropane  
 Concen: 25.10 ug/l  
 RT: 11.14 min Scan# 1731  
 Delta R.T. -0.16 min  
 Lab File: VX000728.D  
 Acq: 08 Apr 2018 13:57

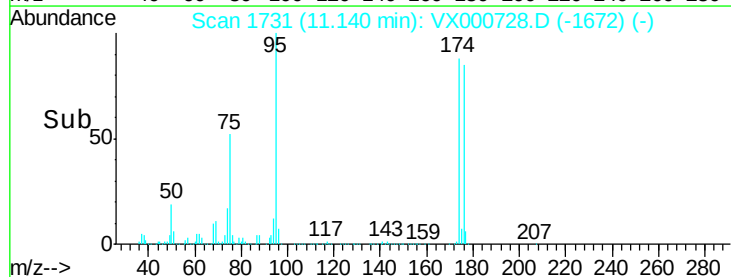
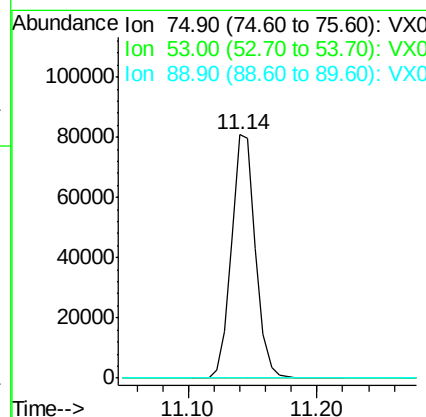
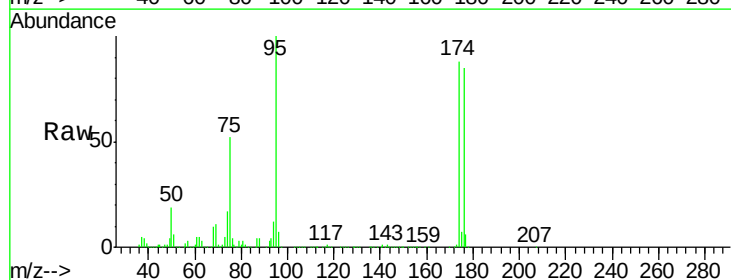
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-20-040218

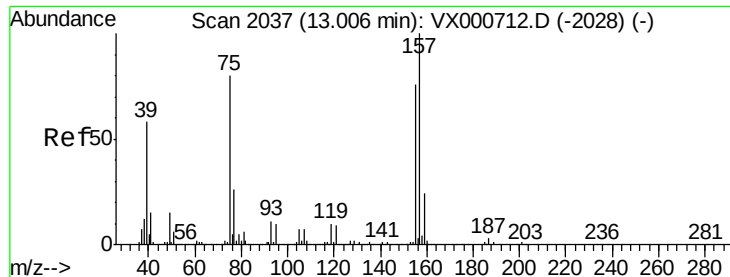
Tgt Ion: 75 Resp: 105776  
 Ion Ratio Lower Upper  
 75 100  
 77 1.1 21.3 63.7#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 65.34 ug/l  
 RT: 11.14 min Scan# 1731  
 Delta R.T. 0.06 min  
 Lab File: VX000728.D  
 Acq: 08 Apr 2018 13:57

Tgt Ion: 75 Resp: 105776  
 Ion Ratio Lower Upper  
 75 100  
 53 0.1 74.2 111.2#  
 89 0.0 46.6 69.8#

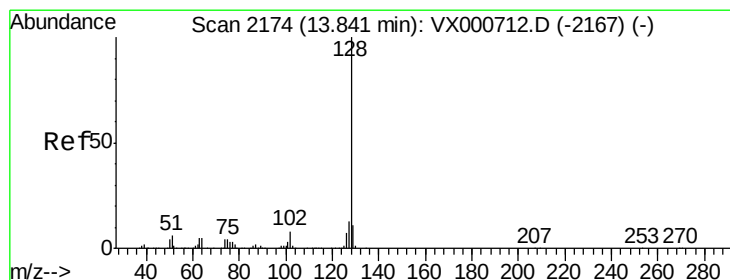
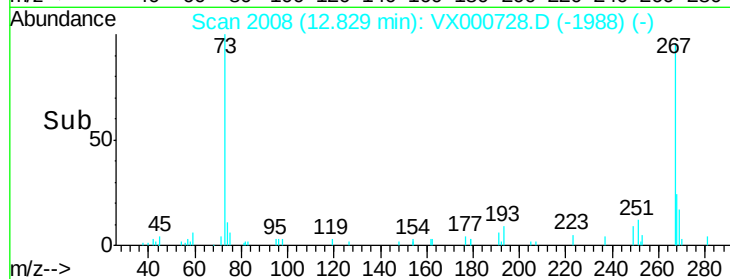
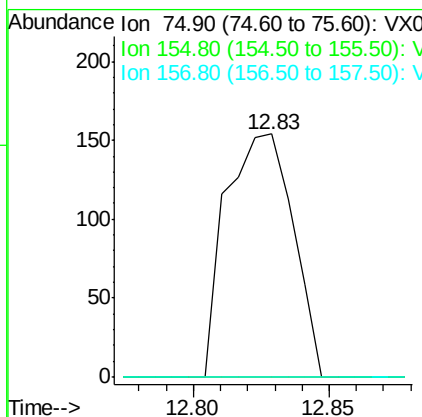
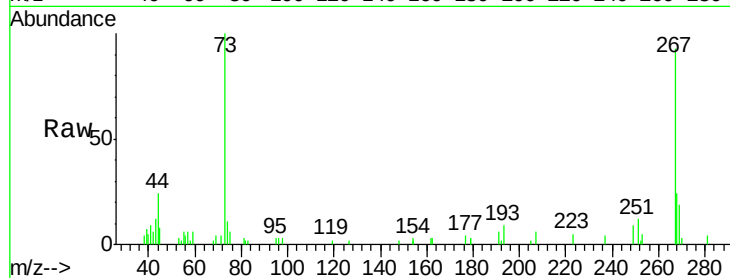




#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 0.23 ug/l  
 RT: 12.83 min Scan# 2008  
 Delta R.T. -0.18 min  
 Lab File: VX000728.D  
 Acq: 08 Apr 2018 13:57

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-20-040218

Tgt Ion: 75 Resp: 263  
 Ion Ratio Lower Upper  
 75 100  
 155 0.0 48.4 145.0#  
 157 0.0 62.8 188.5#



#95  
 Naphthalene  
 Concen: 0.70 ug/l  
 RT: 13.84 min Scan# 2174  
 Delta R.T. -0.00 min  
 Lab File: VX000728.D  
 Acq: 08 Apr 2018 13:57

Tgt Ion: 128 Resp: 11923  
 Ion Ratio Lower Upper  
 128 100  
 127 13.6 10.4 15.6  
 129 11.0 8.8 13.2

