

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX070819\  
 Data File : VX010727.D  
 Acq On : 09 Jul 2019 04:16  
 Operator : JC/SP  
 Sample : K3690-05  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 46 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SS038MW013-190703

Manual Integrations  
 APPROVED

MMDadoda  
 7/9/2019 11:24:02 AM

Quant Time: Jul 09 09:34:43 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X061919W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jun 20 03:31:56 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc    | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|---------|---------|----------|
| 1) Pentafluorobenzene       | 5.66  | 168  | 227489   | 50.00   | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 6.86  | 114  | 353987   | 50.00   | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 10.11 | 117  | 323288   | 50.00   | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 12.08 | 152  | 161442   | 50.00   | ug/l    | 0.00     |
| System Monitoring Compounds |       |      |          |         |         |          |
| 33) 1,2-Dichloroethane-d4   | 6.06  | 65   | 113990   | 53.44   | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =       | 106.88% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 108053   | 49.89   | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =       | 99.78%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 420032   | 50.69   | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =       | 101.38% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 149185   | 49.87   | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =       | 99.74%  |          |
| Target Compounds            |       |      |          |         |         |          |
|                             |       |      |          |         | Qvalue  |          |
| 16) Acetone                 | 2.45  | 43   | 4261     | 3.986   | ug/l    | 95       |
| 31) Cyclohexane             | 5.59  | 56   | 5802     | 1.883   | ug/l    | 96       |
| 39) Methylcyclohexane       | 7.46  | 83   | 7014     | 1.897   | ug/l    | 91       |
| 40) Benzene                 | 6.15  | 78   | 45642    | 5.208   | ug/l    | 99       |
| 52) Toluene                 | 8.79  | 92   | 2305     | 0.399   | ug/l    | 93       |
| 65) Chlorobenzene           | 10.14 | 112  | 1847740  | 281.523 | ug/l    | 97       |
| 69) o-Xylene                | 10.69 | 106  | 3065     | 0.726   | ug/l    | 79       |
| 73) Isopropylbenzene        | 11.02 | 105  | 135203   | 12.354  | ug/l    | 99       |
| 78) n-propylbenzene         | 11.36 | 91   | 93088    | 7.739   | ug/l    | 99       |
| 83) tert-Butylbenzene       | 11.77 | 119  | 87109    | 9.620   | ug/l    | 91       |
| 85) sec-Butylbenzene        | 11.94 | 105  | 186008   | 17.495  | ug/l    | 95       |
| 88) 1,4-Dichlorobenzene     | 12.10 | 146  | 6257     | 1.152   | ug/l #  | 62       |
| 89) n-Butylbenzene          | 12.38 | 91   | 15215m   | 1.821   | ug/l    |          |
| 91) 1,2-Dichlorobenzene     | 12.39 | 146  | 7615     | 1.436   | ug/l    | 95       |
| 95) Naphthalene             | 13.83 | 128  | 7343     | 0.650   | ug/l #  | 71       |

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

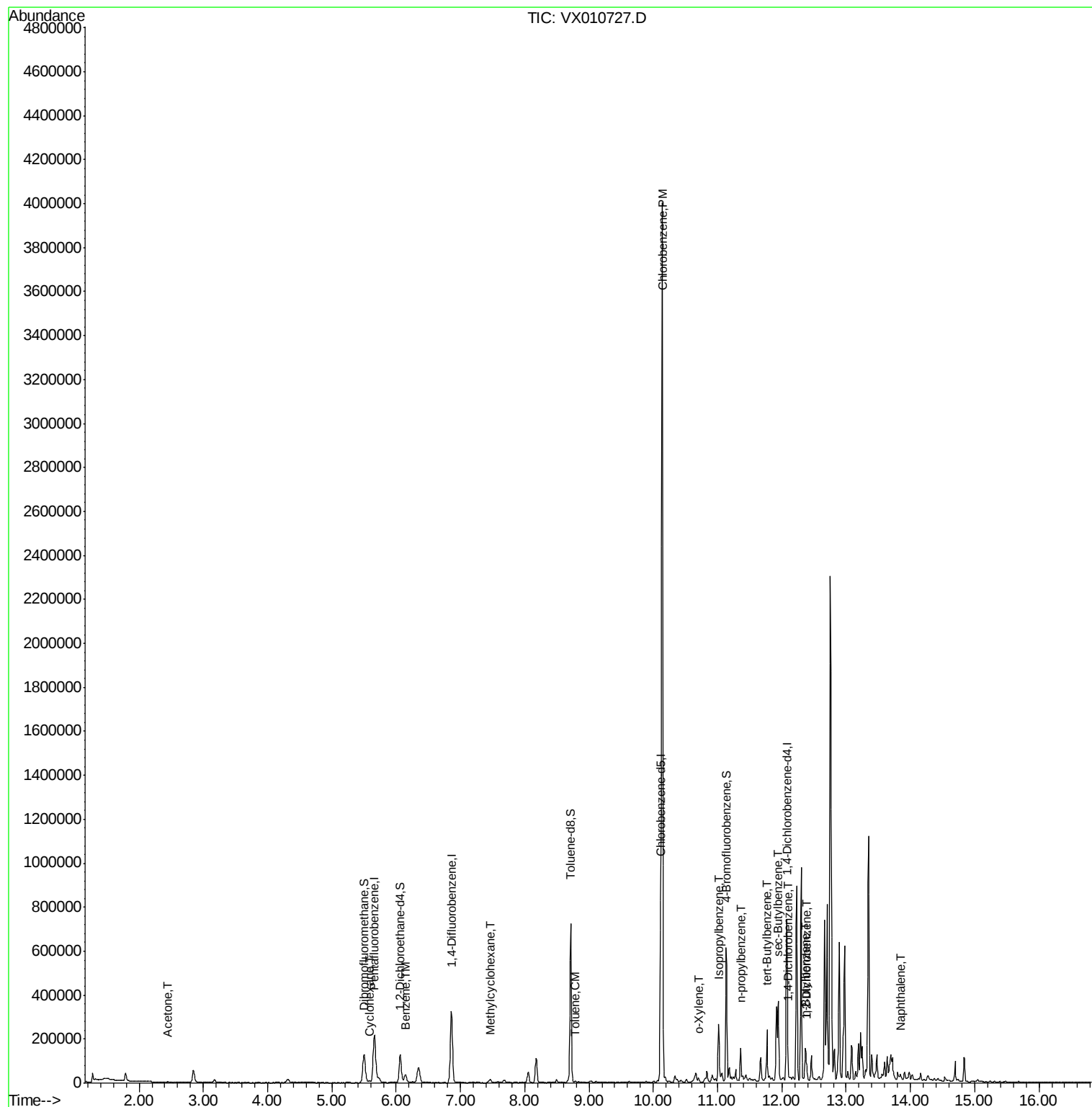
Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX070819\  
Data File : VX010727.D  
Acq On : 09 Jul 2019 04:16  
Operator : JC/SP  
Sample : K3690-05  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 46 Sample Multiplier: 1

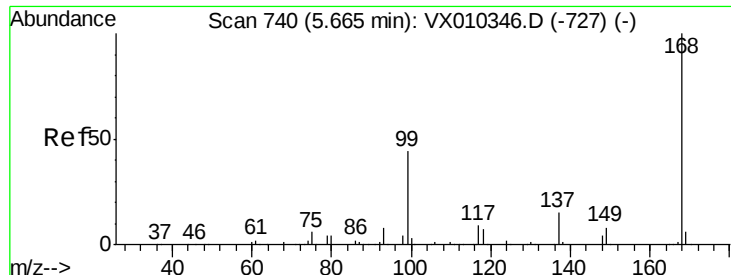
Instrument :  
MSVOA\_X  
ClientSampleId :  
SS038MW013-190703

Manual Integrations  
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7/9/2019 11:24:02 AM

Quant Time: Jul 09 09:34:43 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X061919W.M  
Quant Title : SW846 8260  
QLast Update : Thu Jun 20 03:31:56 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX010727.D

Acq: 09 Jul 2019 04:16

Instrument :

MSVOA\_X

ClientSampleId :

SS038MW013-190703

Tgt Ion:168 Resp: 227489

Ion Ratio Lower Upper

168 100

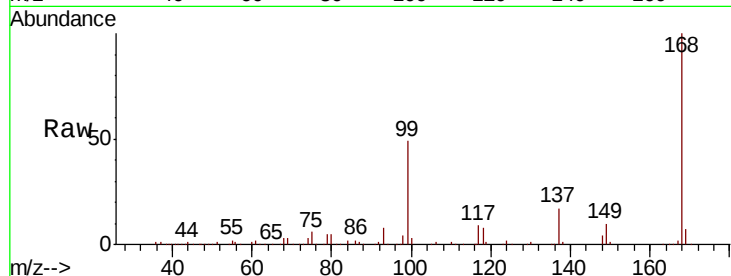
99 48.7 35.5 53.3

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Abundance Ion 167.90 (167.60 to 168.60): VX010346.D (-727) (-)

Ion 98.90 (98.60 to 99.60): VX010346.D (-727) (-)

5.66

80000

60000

40000

20000

0

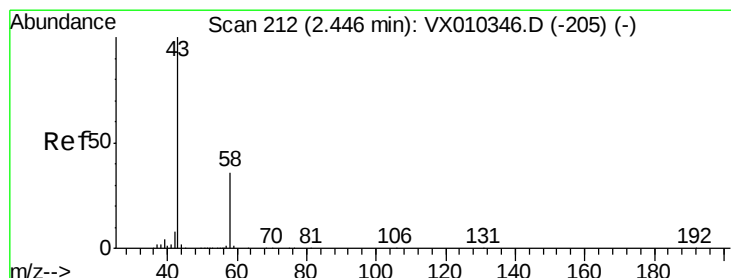
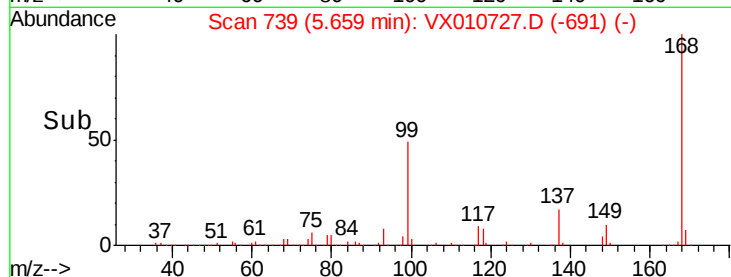
Time-->

5.50

5.60

5.70

5.80



#16

Acetone

Concen: 3.986 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX010727.D

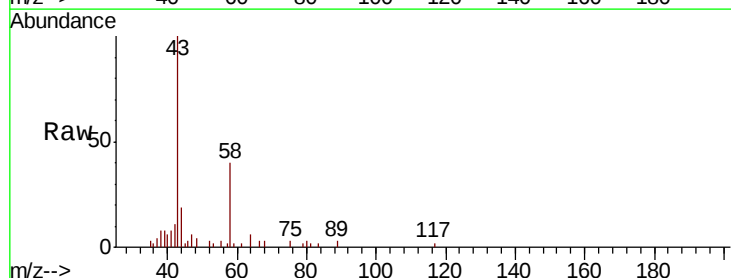
Acq: 09 Jul 2019 04:16

Tgt Ion: 43 Resp: 4261

Ion Ratio Lower Upper

43 100

58 39.3 28.9 43.3



Abundance Ion 43.00 (42.70 to 43.70): VX010346.D (-205) (-)

Ion 58.00 (57.70 to 58.70): VX010346.D (-205) (-)

2.45

3000

2500

2000

1500

1000

500

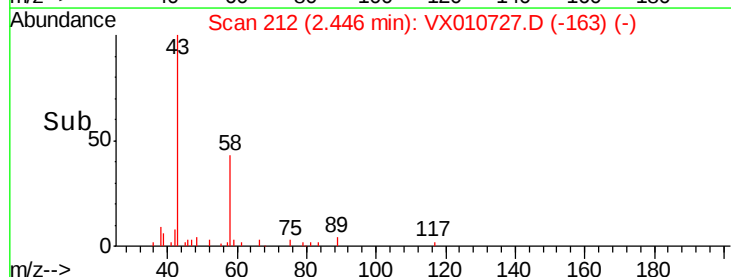
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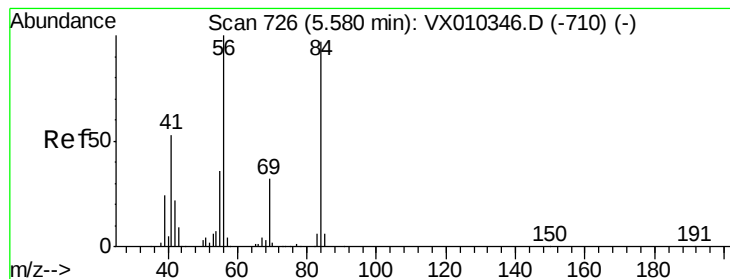
Time-->

2.40

2.45

2.50





#31

Cyclohexane

Concen: 1.883 ug/l

RT: 5.59 min Scan# 727

Delta R.T. 0.01 min

Lab File: VX010727.D

Acq: 09 Jul 2019 04:16

Instrument :

MSVOA\_X

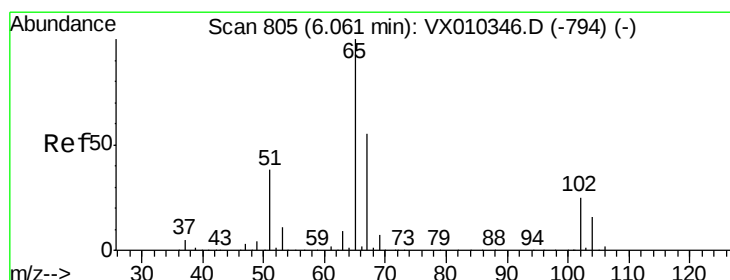
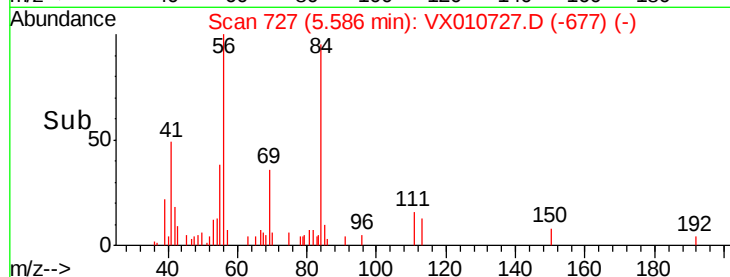
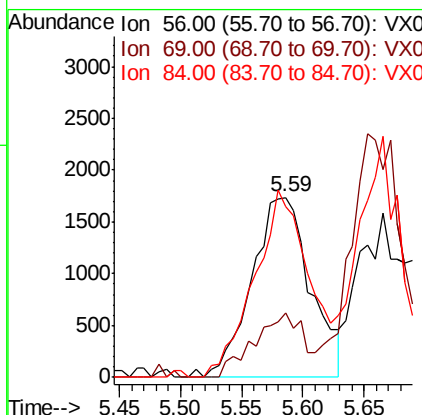
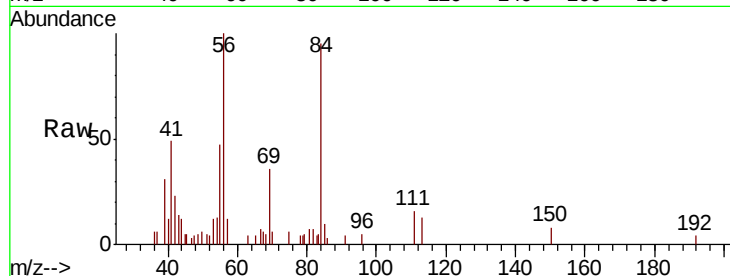
ClientSampleId :

SS038MW013-190703

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 56    | Resp: | 5802  |
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 69       | 35.8  | 25.9  | 38.9  |
| 84       | 94.7  | 78.0  | 117.0 |

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7/9/2019 11:24:02 AM



#33

1,2-Dichloroethane-d4

Concen: 53.443 ug/l

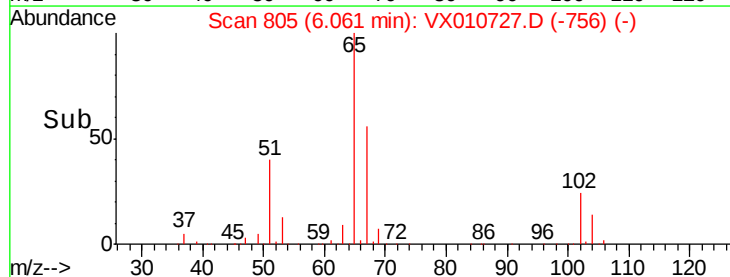
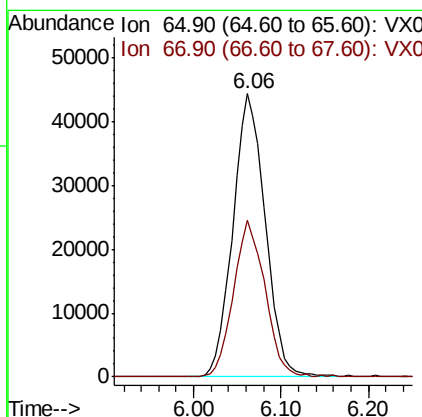
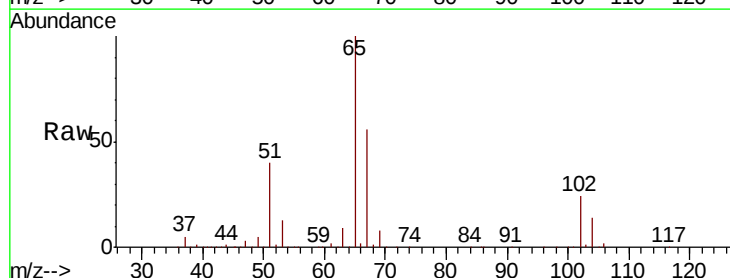
RT: 6.06 min Scan# 805

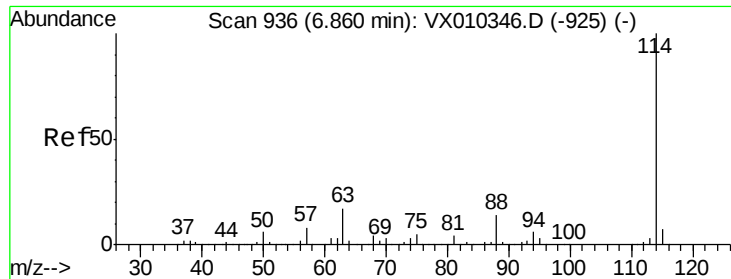
Delta R.T. 0.00 min

Lab File: VX010727.D

Acq: 09 Jul 2019 04:16

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 65    | Resp: | 113990 |
| Ion      | Ratio | Lower | Upper  |
| 65       | 100   |       |        |
| 67       | 53.8  | 0.0   | 110.2  |





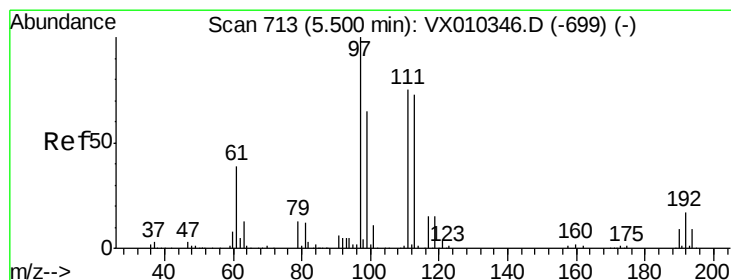
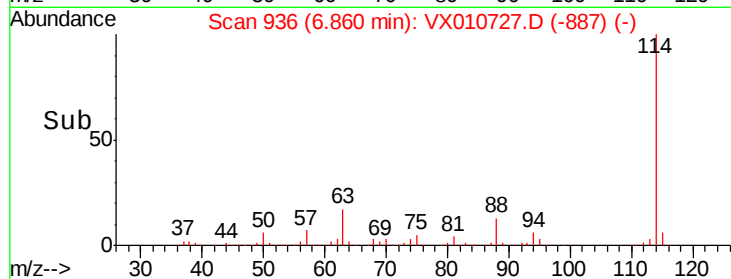
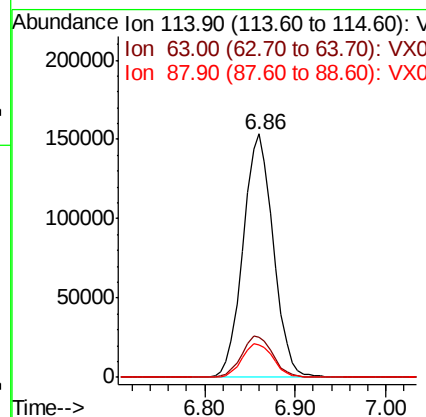
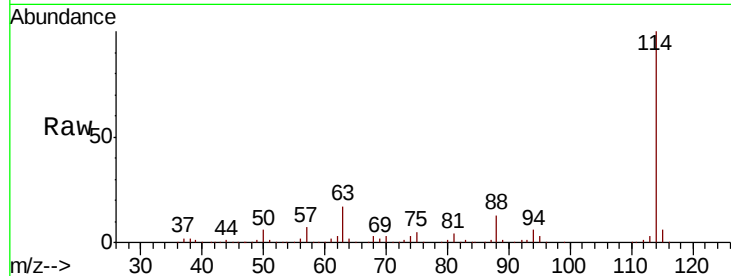
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.86 min Scan# 936  
 Delta R.T. 0.00 min  
 Lab File: VX010727.D  
 Acq: 09 Jul 2019 04:16

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SS038MW013-190703

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 114     | 100   | 353987 |       |       |
| 63      | 16.6  | 0.0    | 33.8  |       |
| 88      | 13.4  | 0.0    | 27.6  |       |

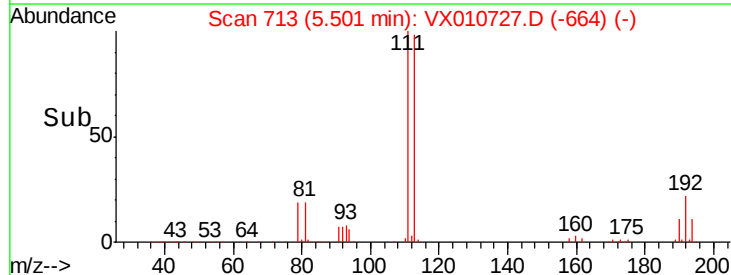
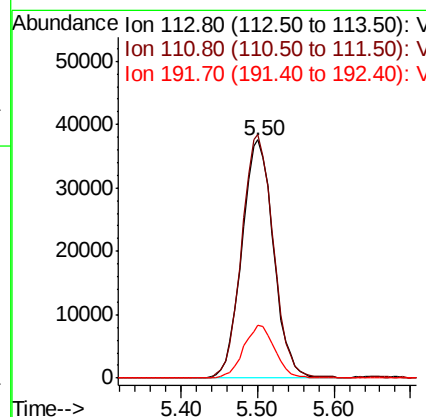
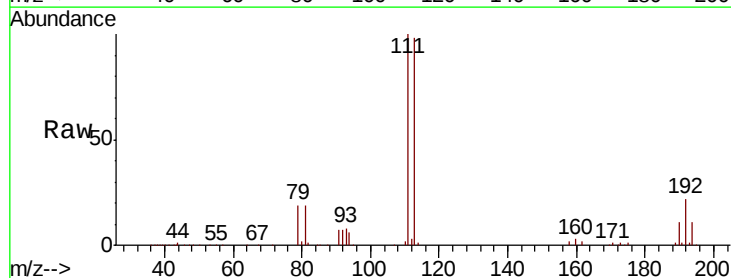
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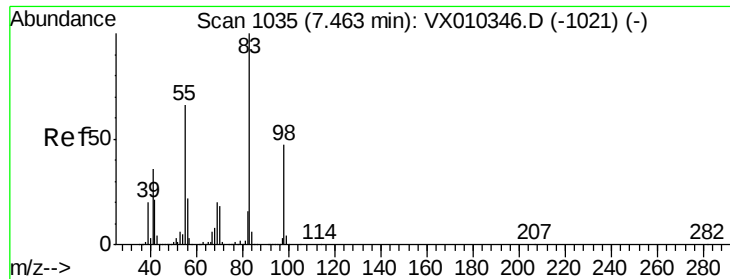
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#35  
 Dibromofluoromethane  
 Concen: 49.890 ug/l  
 RT: 5.50 min Scan# 713  
 Delta R.T. 0.00 min  
 Lab File: VX010727.D  
 Acq: 09 Jul 2019 04:16

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 113     | 100   | 108053 |       |       |
| 111     | 102.0 | 81.2   | 121.8 |       |
| 192     | 21.8  | 18.6   | 27.8  |       |





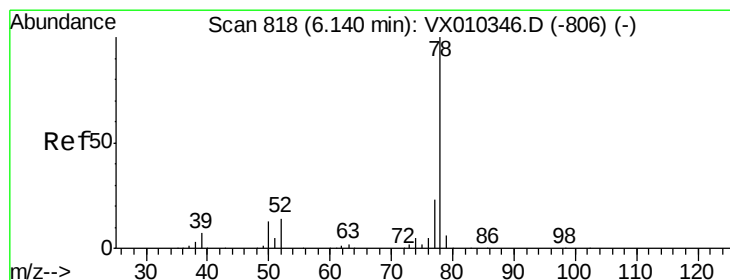
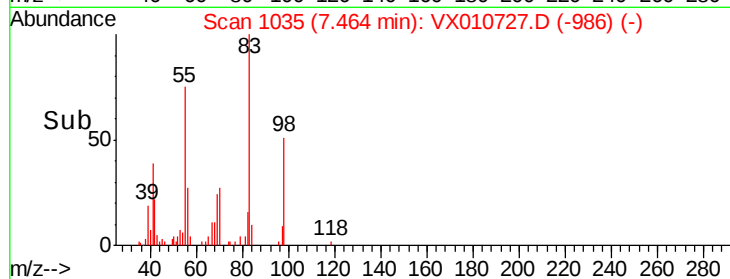
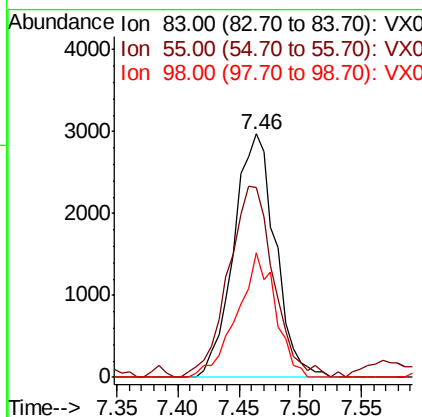
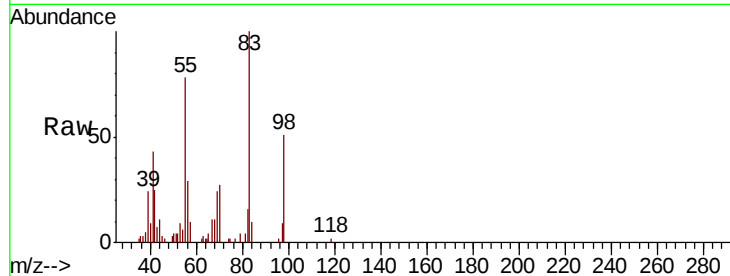
#39  
Methylcyclohexane  
Concen: 1.897 ug/l  
RT: 7.46 min Scan# 1035  
Delta R.T. 0.00 min  
Lab File: VX010727.D  
Acq: 09 Jul 2019 04:16

Instrument :  
MSVOA\_X  
ClientSampleId :  
SS038MW013-190703

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 55      | 75.6  | 53.0  | 79.6  |
| 98      | 50.9  | 37.8  | 56.8  |

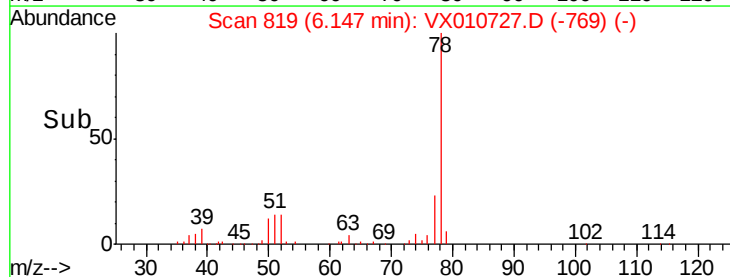
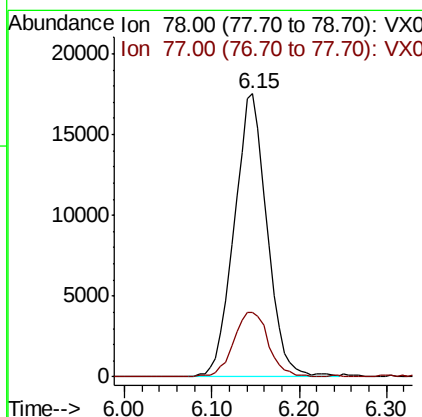
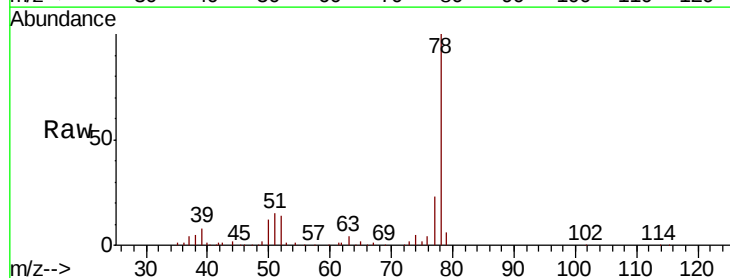
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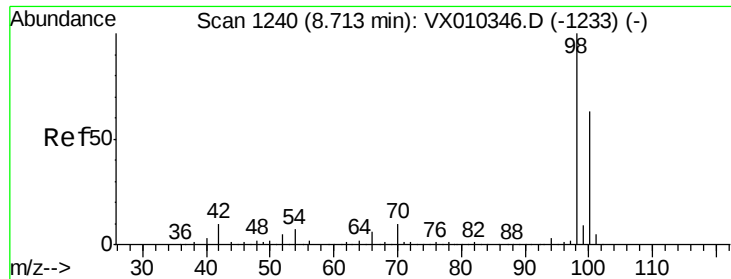
MMDadoda  
7/9/2019 11:24:02 AM



#40  
Benzene  
Concen: 5.208 ug/l  
RT: 6.15 min Scan# 819  
Delta R.T. 0.01 min  
Lab File: VX010727.D  
Acq: 09 Jul 2019 04:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 78      | 100   |       |       |
| 77      | 22.6  | 18.6  | 28.0  |





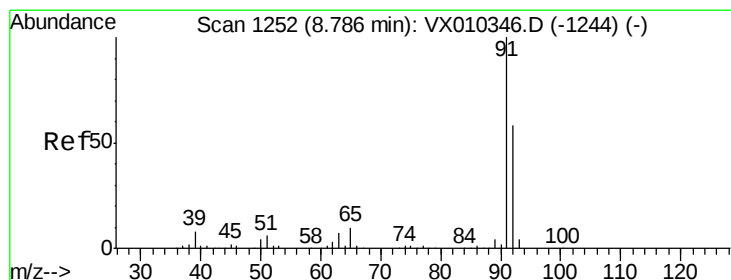
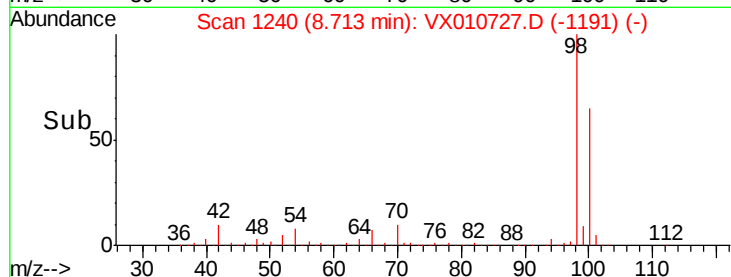
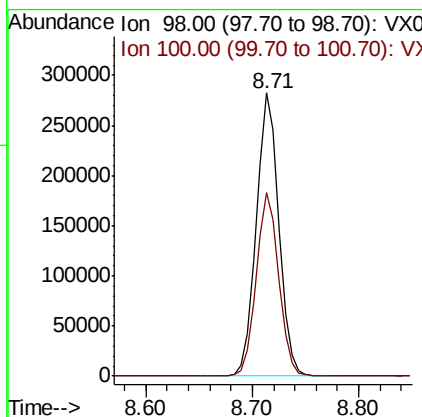
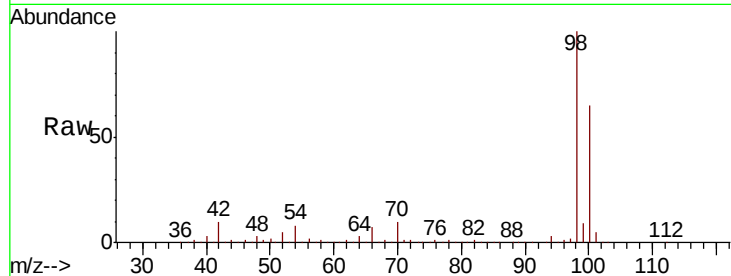
#50  
Toluene-d8  
Concen: 50.692 ug/l  
RT: 8.71 min Scan# 1240  
Delta R.T. 0.00 min  
Lab File: VX010727.D  
Acq: 09 Jul 2019 04:16

Instrument :  
MSVOA\_X  
ClientSampleId :  
SS038MW013-190703

Tgt Ion: 98 Resp: 420032  
Ion Ratio Lower Upper  
98 100  
100 64.6 51.6 77.4

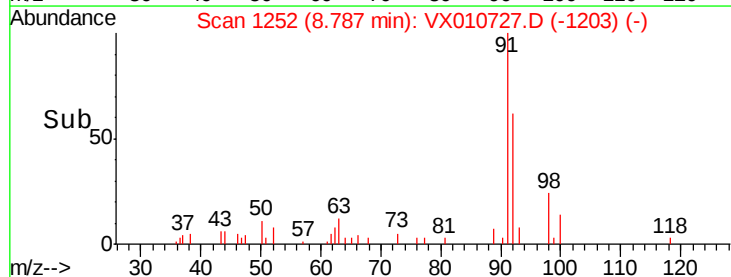
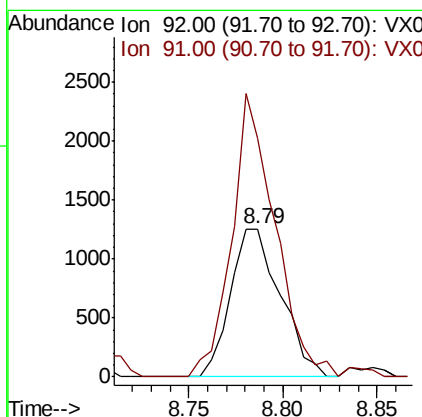
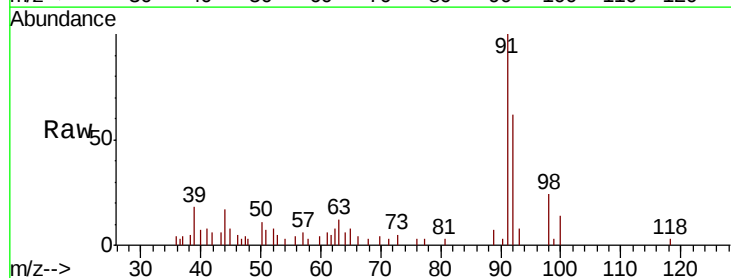
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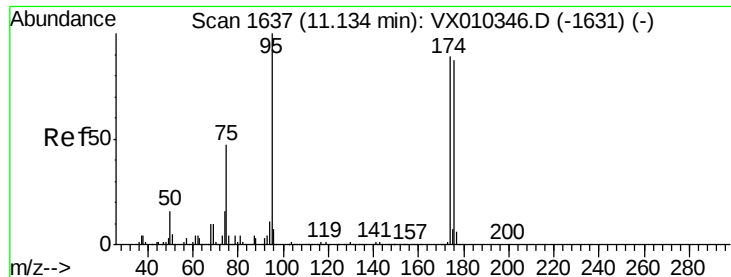
MMDadoda  
7/9/2019 11:24:02 AM



#52  
Toluene  
Concen: 0.399 ug/l  
RT: 8.79 min Scan# 1252  
Delta R.T. 0.00 min  
Lab File: VX010727.D  
Acq: 09 Jul 2019 04:16

Tgt Ion: 92 Resp: 2305  
Ion Ratio Lower Upper  
92 100  
91 165.6 139.8 209.6





#62

4-Bromofluorobenzene

Concen: 49.870 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010727.D

Acq: 09 Jul 2019 04:16

Instrument :

MSVOA\_X

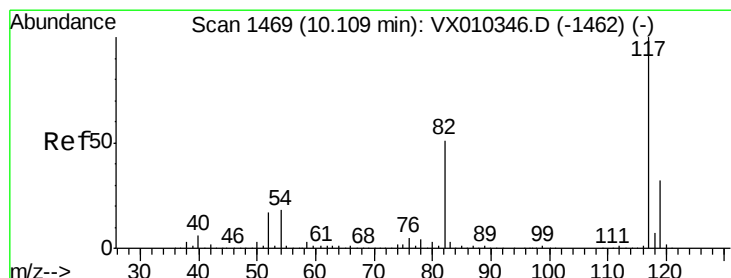
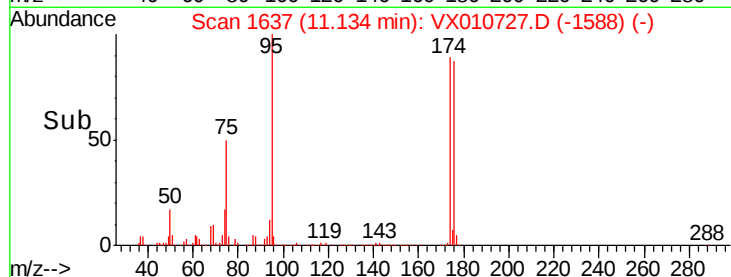
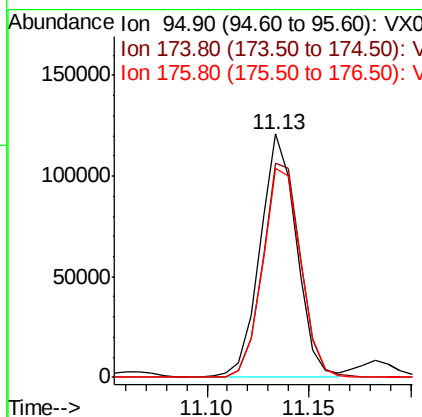
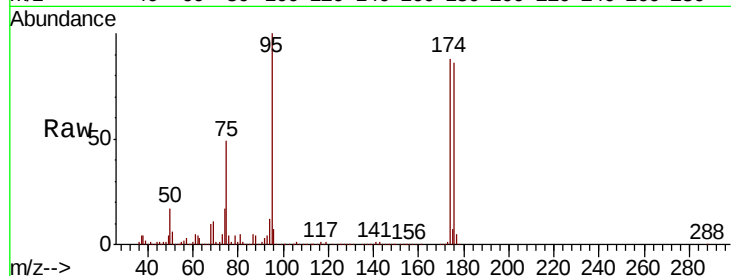
ClientSampleId :

SS038MW013-190703

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 95      | 100   | 149185 |       |       |
| 174     | 92.9  | 0.0    | 187.6 |       |
| 176     | 90.8  | 0.0    | 184.0 |       |

Manual Integrations  
APPROVED

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7/9/2019 11:24:02 AM



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

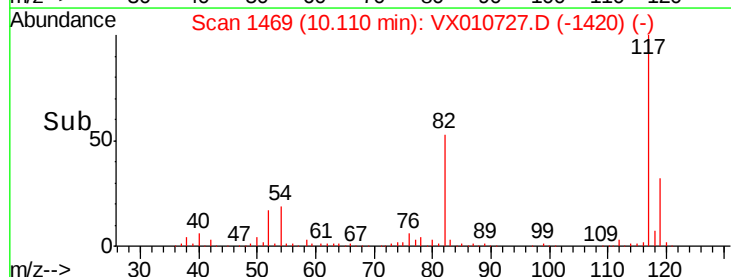
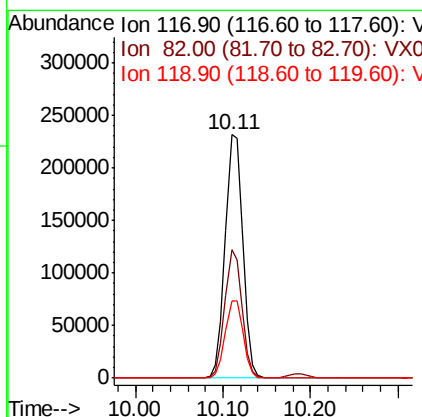
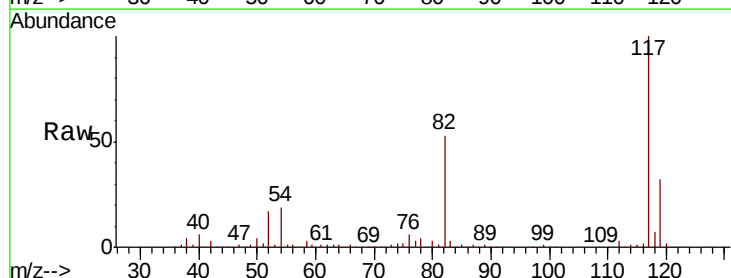
RT: 10.11 min Scan# 1469

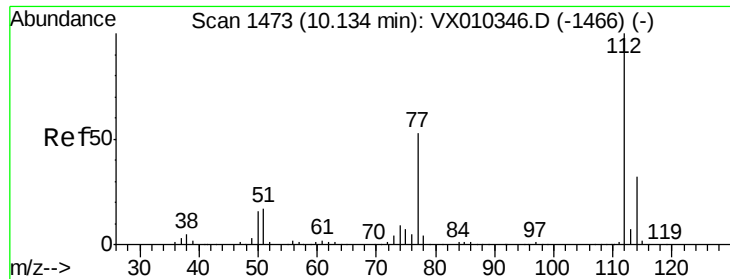
Delta R.T. 0.00 min

Lab File: VX010727.D

Acq: 09 Jul 2019 04:16

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 117     | 100   | 323288 |       |       |
| 82      | 53.0  | 41.2   | 61.8  |       |
| 119     | 31.8  | 25.5   | 38.3  |       |





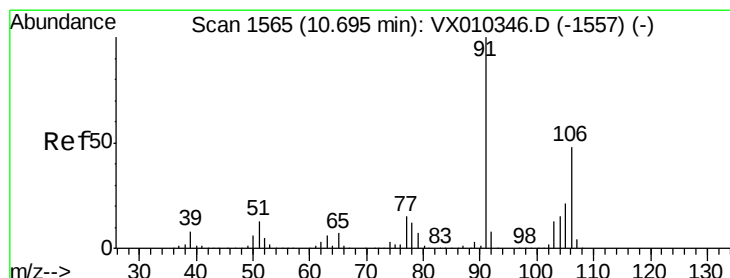
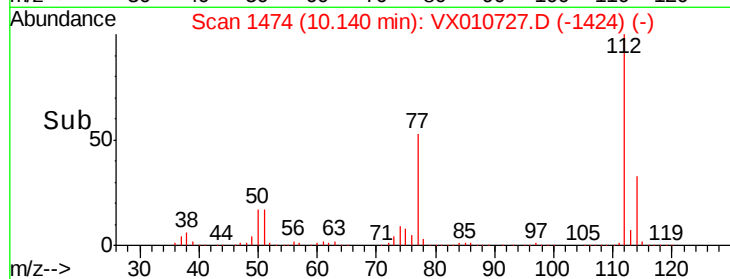
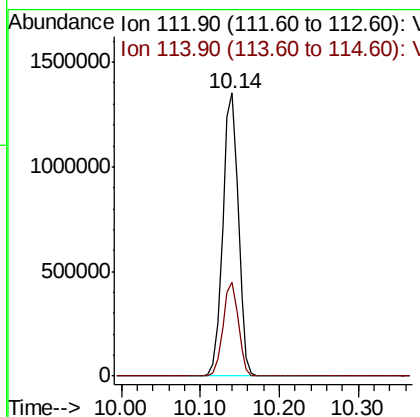
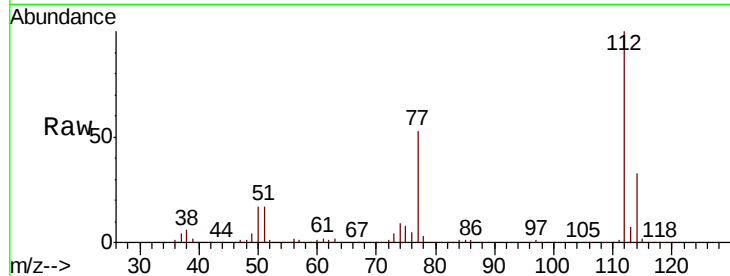
#65  
Chlorobenzene  
Concen: 281.523 ug/l  
RT: 10.14 min Scan# 1474  
Delta R.T. 0.01 min  
Lab File: VX010727.D  
Acq: 09 Jul 2019 04:16

Instrument :  
MSVOA\_X  
ClientSampleId :  
SS038MW013-190703

Tgt Ion:112 Resp: 1847740  
Ion Ratio Lower Upper  
112 100  
114 33.2 25.4 38.2

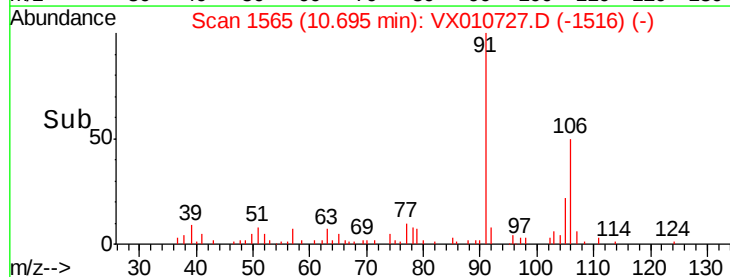
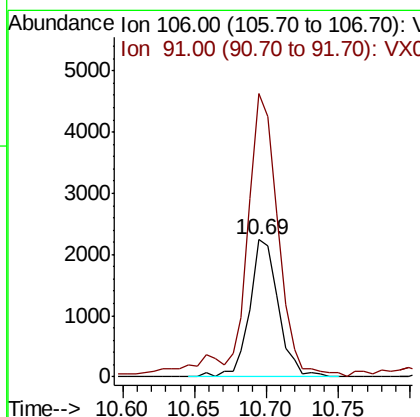
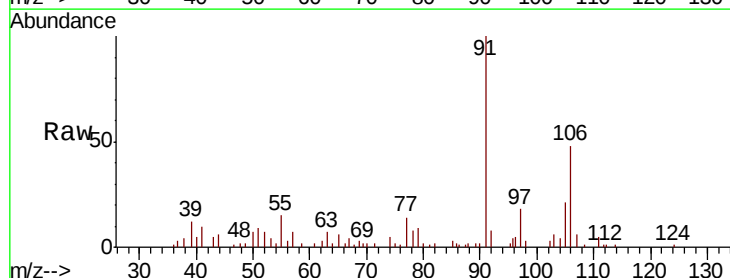
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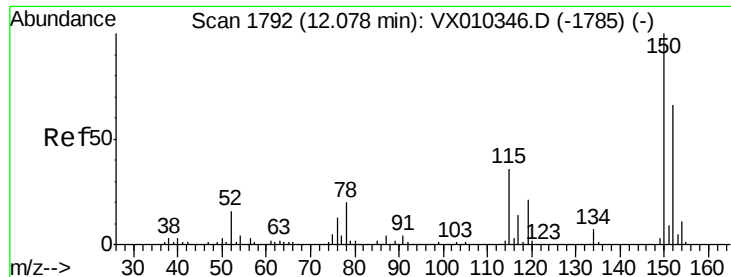
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#69  
o-Xylene  
Concen: 0.726 ug/l  
RT: 10.69 min Scan# 1565  
Delta R.T. 0.00 min  
Lab File: VX010727.D  
Acq: 09 Jul 2019 04:16

Tgt Ion:106 Resp: 3065  
Ion Ratio Lower Upper  
106 100  
91 237.2 102.7 308.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX010727.D

Acq: 09 Jul 2019 04:16

Instrument :

MSVOA\_X

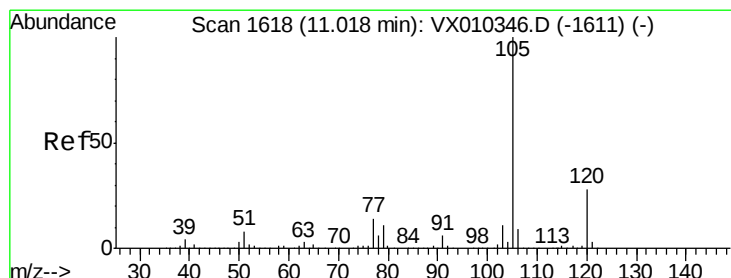
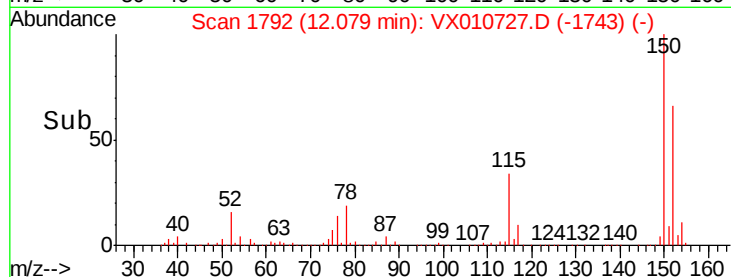
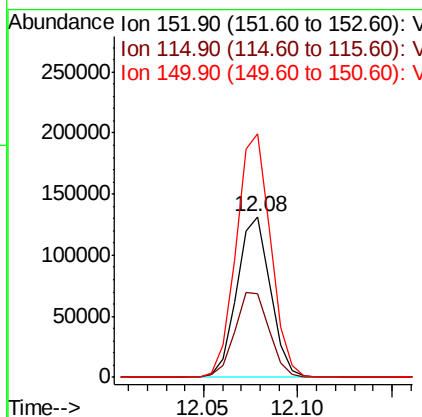
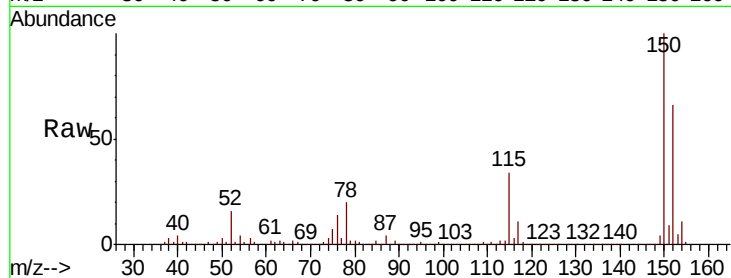
ClientSampleId :

SS038MW013-190703

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 152   | Resp: | 161442 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 115       | 55.5  | 38.6  | 115.7  |
| 150       | 155.7 | 0.0   | 347.4  |

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7/9/2019 11:24:02 AM



#73

Isopropylbenzene

Concen: 12.354 ug/l

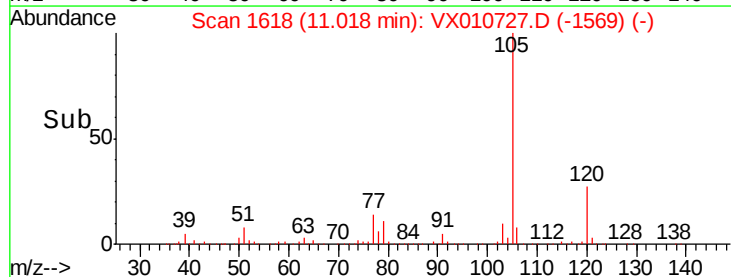
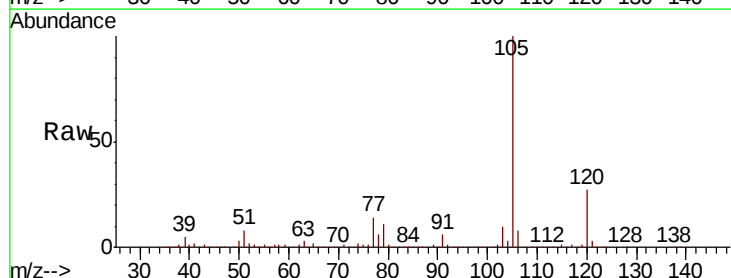
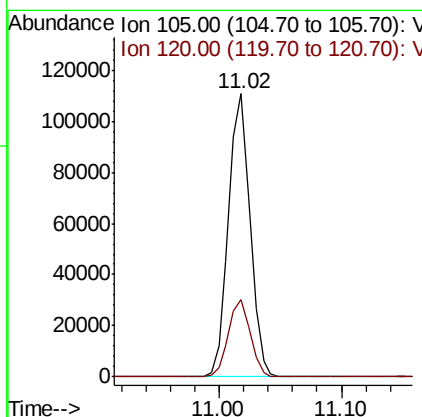
RT: 11.02 min Scan# 1618

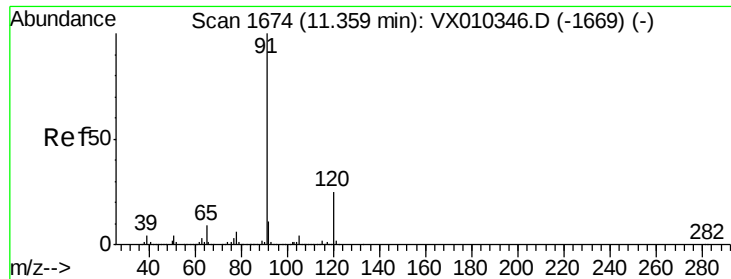
Delta R.T. 0.00 min

Lab File: VX010727.D

Acq: 09 Jul 2019 04:16

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 105   | Resp: | 135203 |
| Ion Ratio | Lower | Upper |        |
| 105       | 100   |       |        |
| 120       | 27.6  | 14.1  | 42.4   |





#78

n-propylbenzene

Concen: 7.739 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. 0.00 min

Lab File: VX010727.D

Acq: 09 Jul 2019 04:16

Instrument :

MSVOA\_X

ClientSampleId :

SS038MW013-190703

Tgt Ion: 91 Resp: 93088

Ion Ratio Lower Upper

91 100

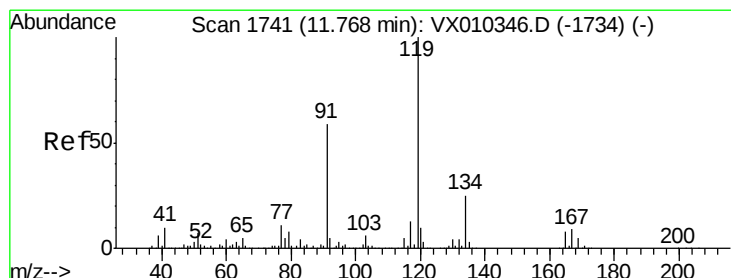
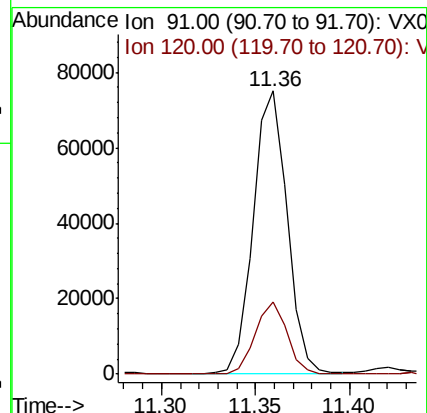
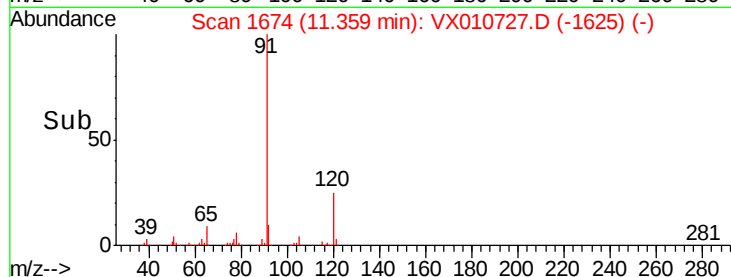
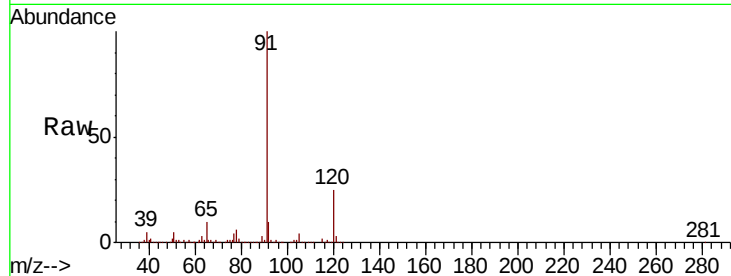
120 24.3 12.4 37.4

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7/9/2019 11:24:02 AM



#83

tert-Butylbenzene

Concen: 9.620 ug/l

RT: 11.77 min Scan# 1741

Delta R.T. 0.00 min

Lab File: VX010727.D

Acq: 09 Jul 2019 04:16

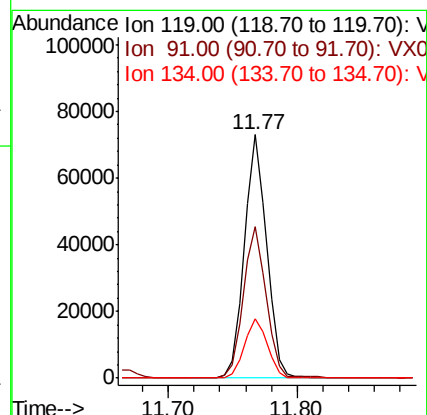
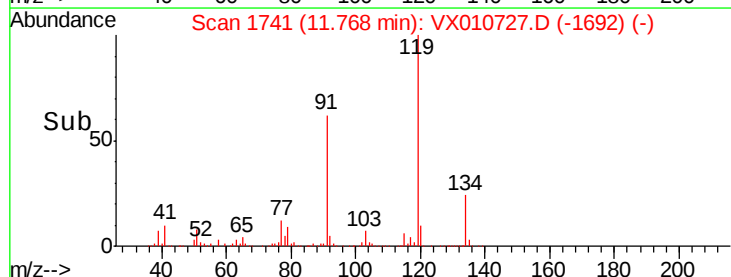
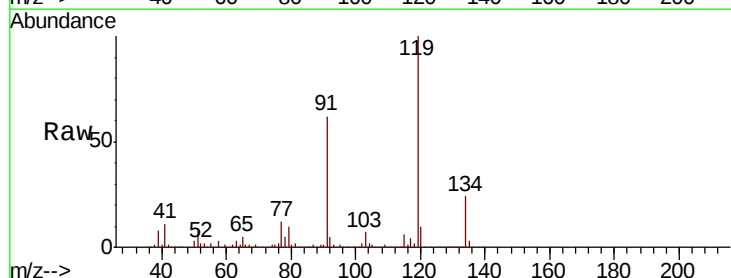
Tgt Ion: 119 Resp: 87109

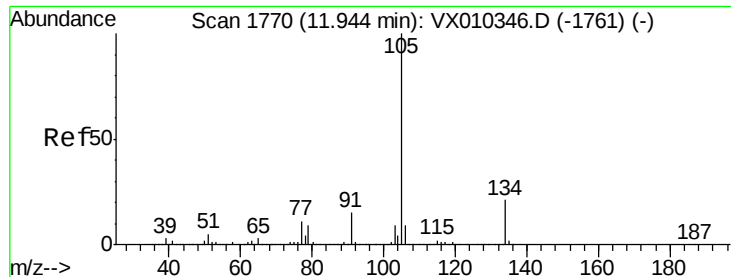
Ion Ratio Lower Upper

119 100

91 63.3 27.6 82.7

134 25.3 11.8 35.4





#85

sec-Butylbenzene

Concen: 17.495 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. 0.00 min

Lab File: VX010727.D

Acq: 09 Jul 2019 04:16

Instrument :

MSVOA\_X

ClientSampleId :

SS038MW013-190703

Tgt Ion:105 Resp: 186008

Ion Ratio Lower Upper

105 100

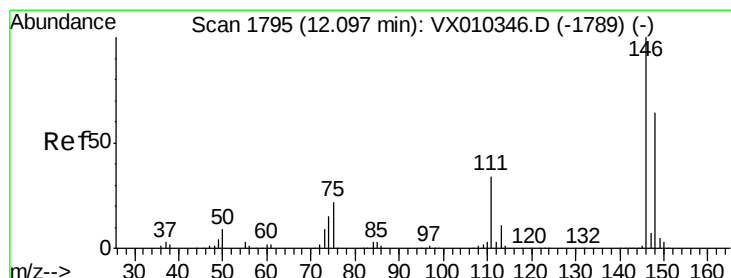
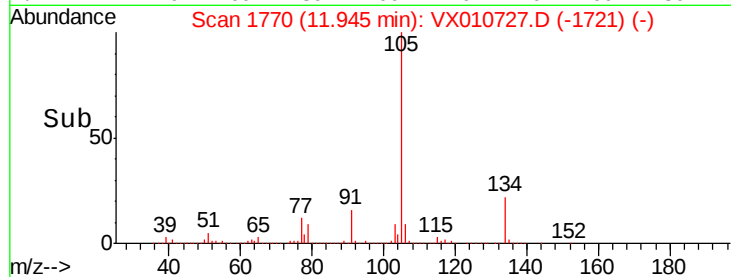
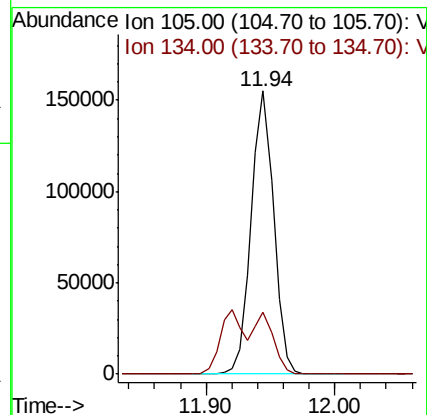
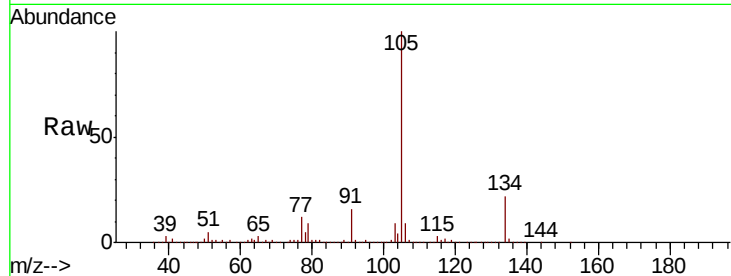
134 18.8 10.7 31.9

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7/9/2019 11:24:02 AM



#88

1,4-Dichlorobenzene

Concen: 1.152 ug/l

RT: 12.10 min Scan# 1795

Delta R.T. 0.00 min

Lab File: VX010727.D

Acq: 09 Jul 2019 04:16

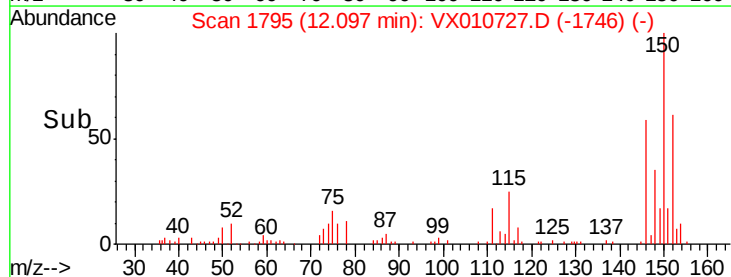
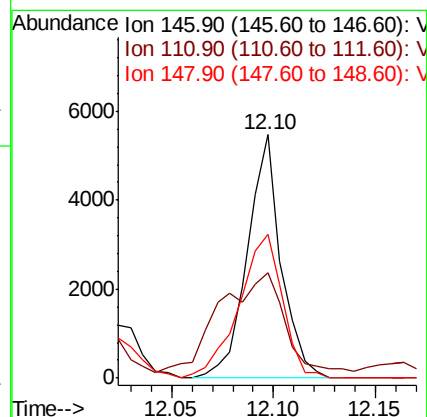
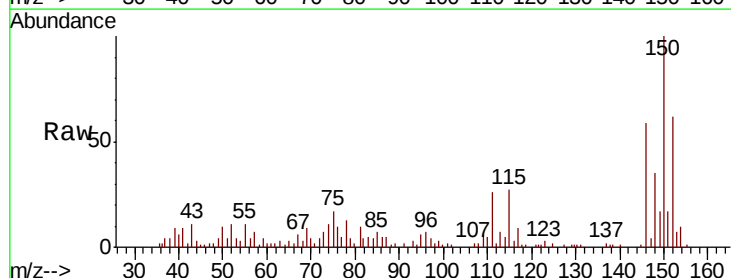
Tgt Ion:146 Resp: 6257

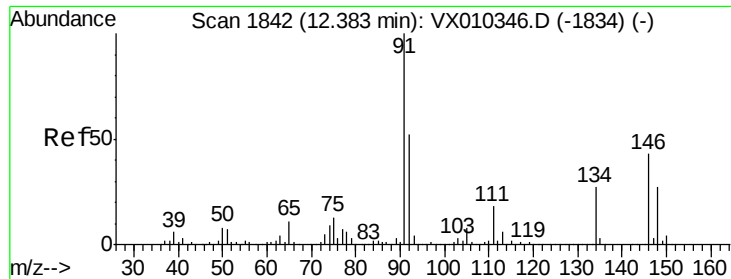
Ion Ratio Lower Upper

146 100

111 82.0 18.1 54.3#

148 76.4 32.1 96.3





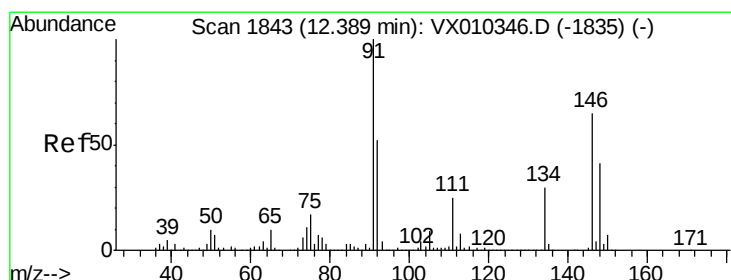
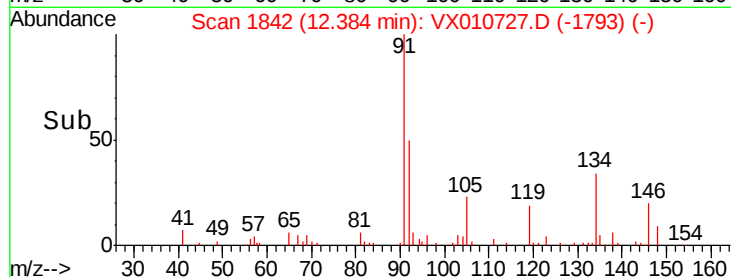
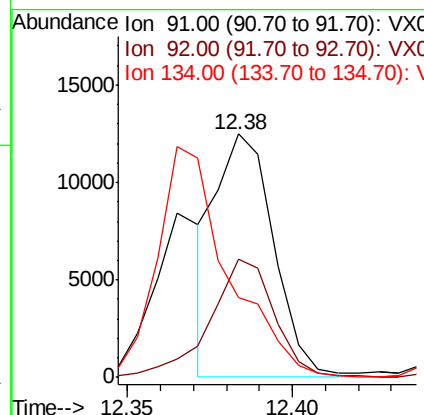
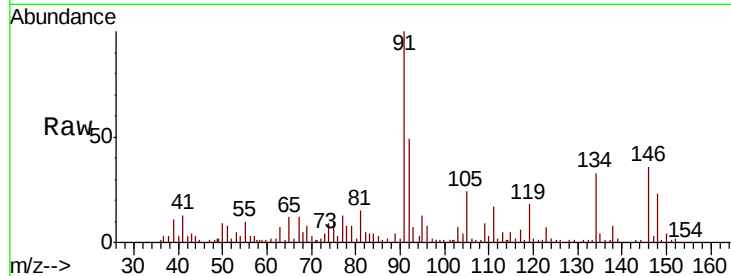
#89  
n-Butylbenzene  
Concen: 1.821 ug/l m  
RT: 12.38 min Scan# 1842  
Delta R.T. 0.00 min  
Lab File: VX010727.D  
Acq: 09 Jul 2019 04:16

Instrument :  
MSVOA\_X  
ClientSampleId :  
SS038MW013-190703

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 54.6  | 26.2  | 78.5  |
| 134     | 116.2 | 14.1  | 42.4# |

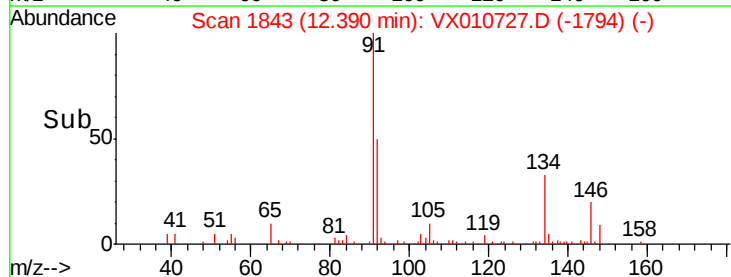
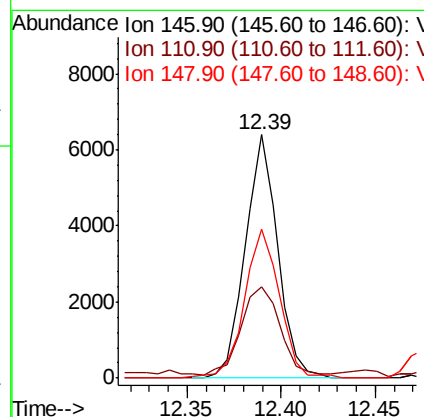
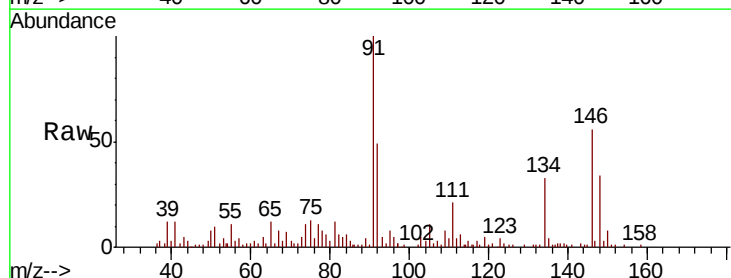
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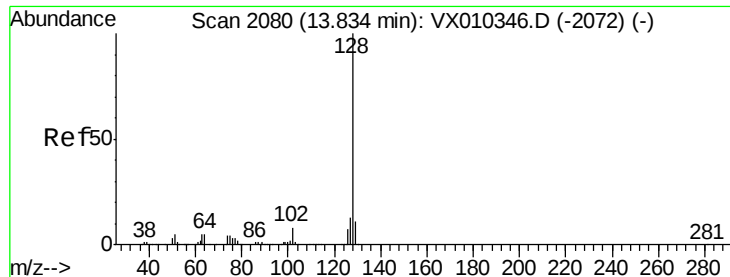
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#91  
1,2-Dichlorobenzene  
Concen: 1.436 ug/l  
RT: 12.39 min Scan# 1843  
Delta R.T. 0.00 min  
Lab File: VX010727.D  
Acq: 09 Jul 2019 04:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 43.9  | 19.2  | 57.6  |
| 148     | 66.5  | 32.0  | 96.0  |





#95  
Naphthalene  
Concen: 0.650 ug/l  
RT: 13.83 min Scan# 2080  
Delta R.T. 0.00 min  
Lab File: VX010727.D  
Acq: 09 Jul 2019 04:16

Instrument :  
MSVOA\_X  
ClientSampleId :  
SS038MW013-190703

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 0.0   | 10.2  | 15.4# |
| 129     | 21.0  | 8.9   | 13.3# |

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