

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX021219\  
 Data File : VX007492.D  
 Acq On : 12 Feb 2019 16:50  
 Operator : JC/SP  
 Sample : K1457-07  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 IDW-LIQUID-01

Manual Integrations  
 APPROVED

MMDadoda  
 2/13/2019 12:01:05 PM

Quant Time: Feb 13 01:11:12 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X020119W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Feb 02 01:32:36 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.   | QIon | Response | Conc     | Units   | Dev(Min) |
|-----------------------------|--------|------|----------|----------|---------|----------|
| 1) Pentafluorobenzene       | 5.67   | 168  | 521750   | 50.00    | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 6.86   | 114  | 796180   | 50.00    | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 10.12  | 117  | 754665   | 50.00    | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 12.08  | 152  | 385337   | 50.00    | ug/l    | 0.00     |
| System Monitoring Compounds |        |      |          |          |         |          |
| 33) 1,2-Dichloroethane-d4   | 6.07   | 65   | 269988   | 48.75    | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =        | 97.50%  |          |
| 35) Dibromofluoromethane    | 5.51   | 113  | 254456   | 49.12    | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =        | 98.24%  |          |
| 50) Toluene-d8              | 8.71   | 98   | 967948   | 50.36    | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =        | 100.72% |          |
| 62) 4-Bromofluorobenzene    | 11.13  | 95   | 344178   | 49.05    | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =        | 98.10%  |          |
| Target Compounds            |        |      |          |          |         |          |
|                             |        |      |          |          | Qvalue  |          |
| 16) Acetone                 | 2.45   | 43   | 304134   | 119.889  | ug/l    | 98       |
| 25) 2-Butanone              | 4.70   | 43   | 269273   | 74.588   | ug/l    | 99       |
| 29) Tetrahydrofuran         | 5.15   | 42   | 10628    | 4.681    | ug/l #  | 65       |
| 31) Cyclohexane             | 5.58   | 56   | 1109655  | 144.094  | ug/l    | 97       |
| 39) Methylcyclohexane       | 7.46   | 83   | 757802   | 87.677   | ug/l    | 97       |
| 52) Toluene                 | 8.79   | 92   | 7420688  | 546.574  | ug/l    | 94       |
| 67) Ethyl Benzene           | 10.25  | 91   | 14173375 | 534.439  | ug/l #  | 79       |
| 68) m/p-Xylenes             | 10.37  | 106  | 13393218 | 1270.453 | ug/l #  | 55       |
| 69) o-Xylene                | 10.70  | 106  | 2681322  | 264.323  | ug/l    | 98       |
| 73) Isopropylbenzene        | 11.02  | 105  | 992456   | 37.901   | ug/l    | 99       |
| 78) n-propylbenzene         | 11.36  | 91   | 3012865  | 104.926  | ug/l    | 99       |
| 80) 1,3,5-Trimethylbenzene  | 11.51  | 105  | 3455896  | 161.316  | ug/l    | 99       |
| 84) 1,2,4-Trimethylbenzene  | 11.81  | 105  | 11411783 | 524.693  | ug/l    | 90       |
| 85) sec-Butylbenzene        | 11.94  | 105  | 135227m  | 5.268    | ug/l    |          |
| 86) p-Isopropyltoluene      | 12.07  | 119  | 81087m   | 3.499    | ug/l    |          |
| 89) n-Butylbenzene          | 12.38  | 91   | 491381   | 24.650   | ug/l #  | 19       |
| 95) Naphthalene             | 13.83  | 128  | 4195294  | 161.436  | ug/l    | 100      |

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

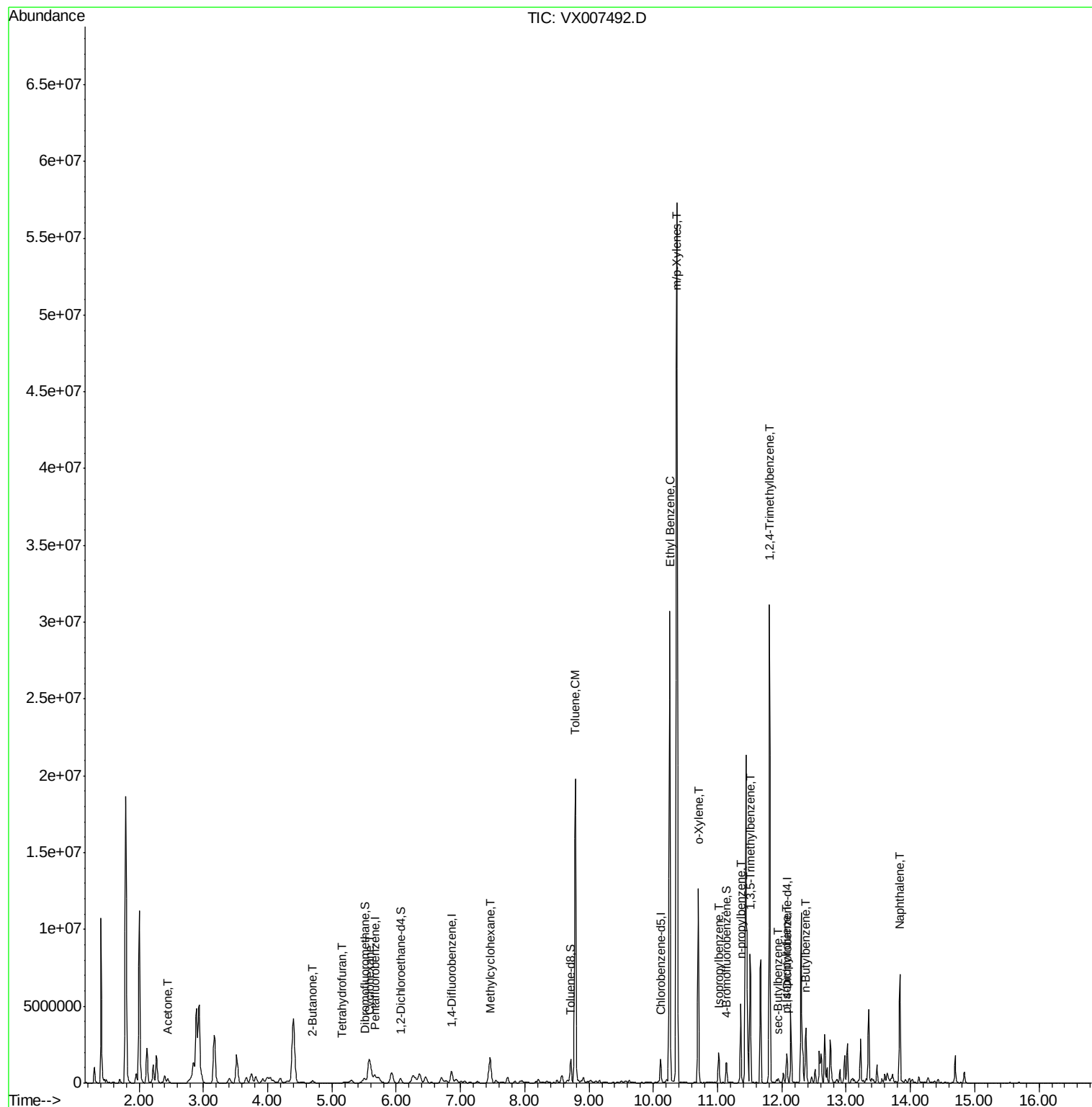
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX021219\  
Data File : VX007492.D  
Acq On : 12 Feb 2019 16:50  
Operator : JC/SP  
Sample : K1457-07  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 12 Sample Multiplier: 1

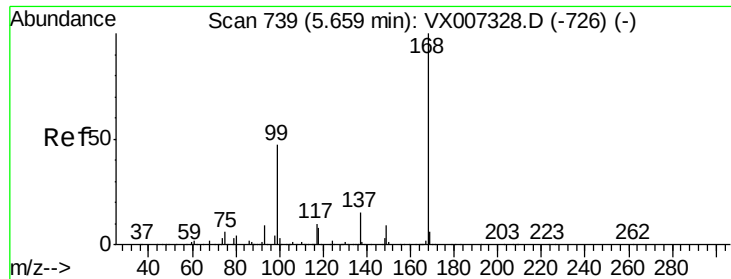
Instrument :  
MSVOA\_X  
ClientSampleId :  
IDW-LIQUID-01

Manual Integrations  
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2/13/2019 12:01:05 PM

Quant Time: Feb 13 01:11:12 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X020119W.M  
Quant Title : SW846 8260  
QLast Update : Sat Feb 02 01:32:36 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX007492.D

Acq: 12 Feb 2019 16:50

Instrument :

MSVOA\_X

ClientSampleId :

IDW-LIQUID-01

Tot Ion:168 Resp: 521750

Ion Ratio Lower Upper

168 100

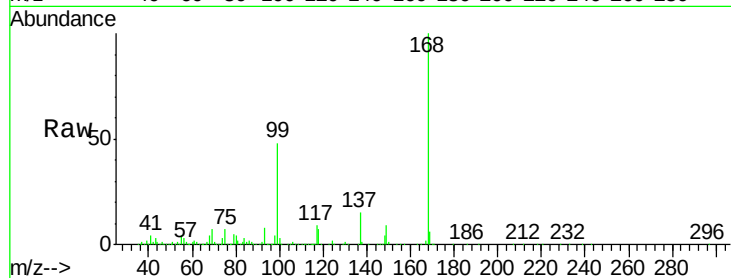
99 48.2 37.9 56.9

Manual Integrations

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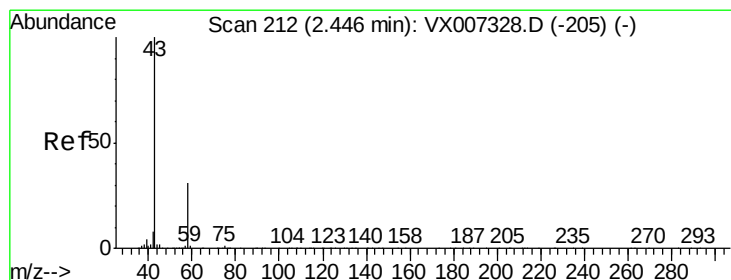
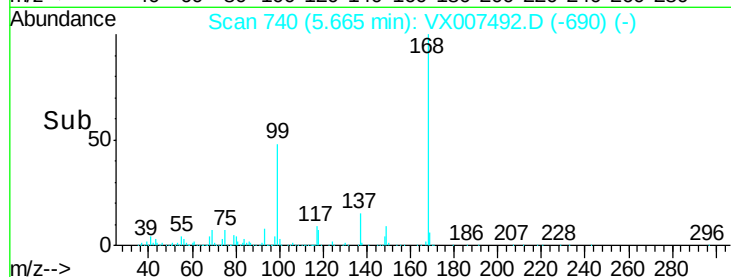
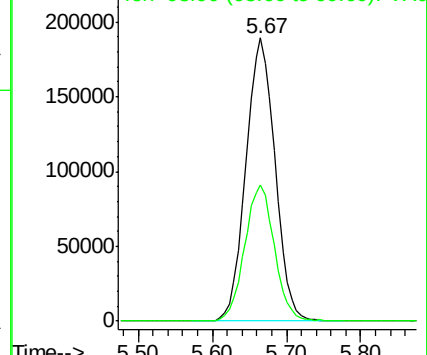
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#16

Acetone

Concen: 119.889 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX007492.D

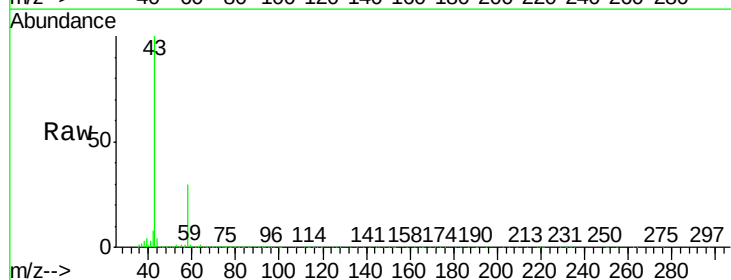
Acq: 12 Feb 2019 16:50

Tgt Ion: 43 Resp: 304134

Ion Ratio Lower Upper

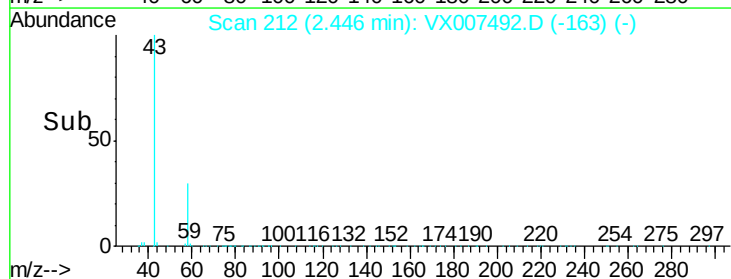
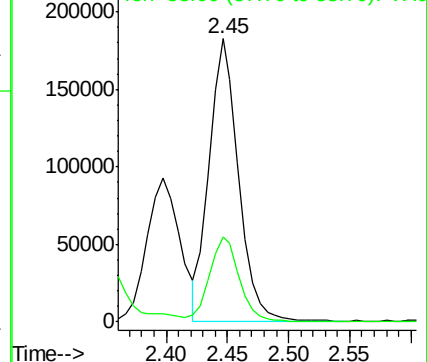
43 100

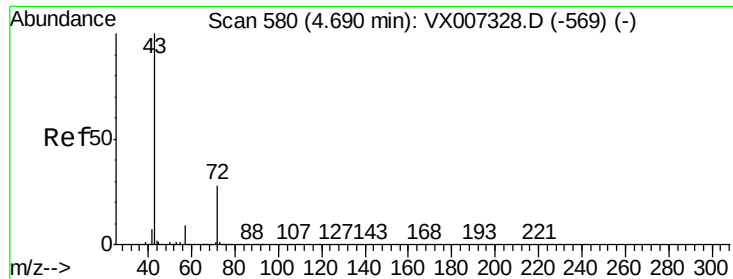
58 29.7 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#25

2-Butanone

Concen: 74.588 ug/l

RT: 4.70 min Scan# 581

Delta R.T. 0.01 min

Lab File: VX007492.D

Acq: 12 Feb 2019 16:50

Instrument :

MSVOA\_X

ClientSampled :

IDW-LIQUID-01

Tot Ion: 43 Resp: 269273

Ion Ratio Lower Upper

43 100

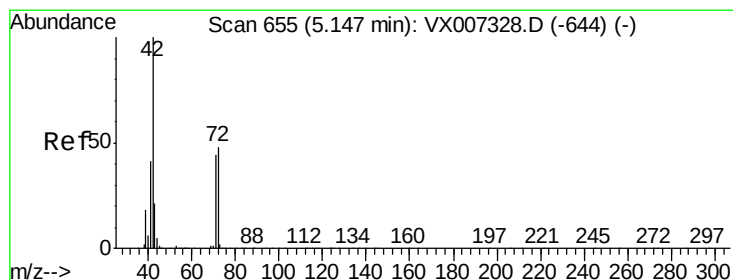
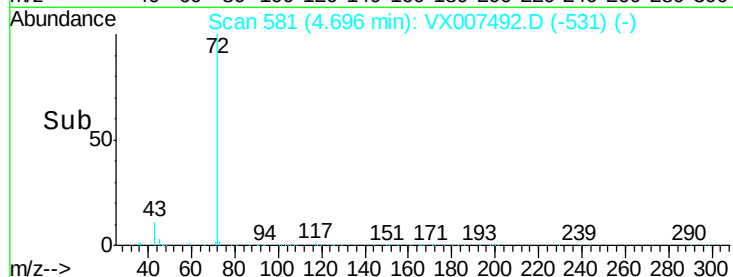
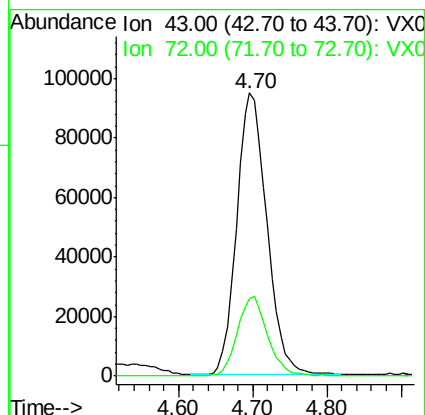
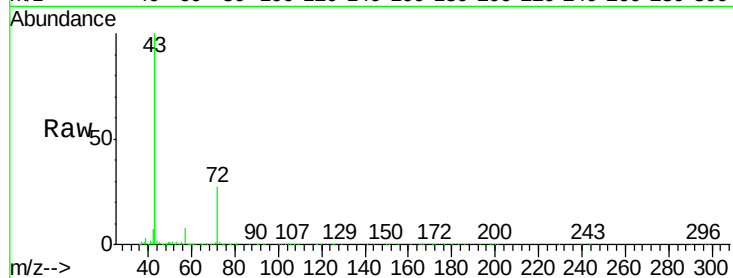
72 27.1 22.2 33.2

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#29

Tetrahydrofuran

Concen: 4.681 ug/l

RT: 5.15 min Scan# 656

Delta R.T. 0.01 min

Lab File: VX007492.D

Acq: 12 Feb 2019 16:50

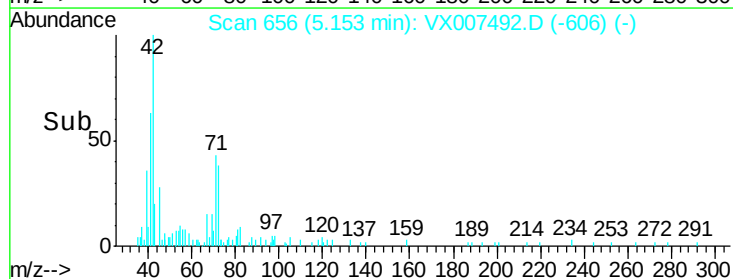
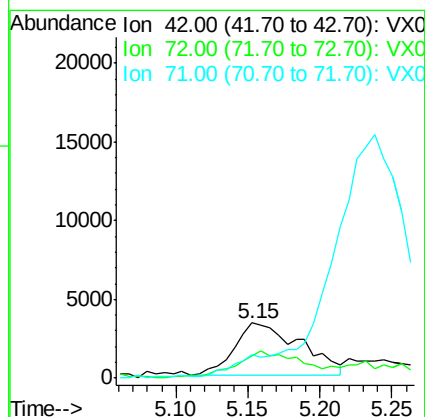
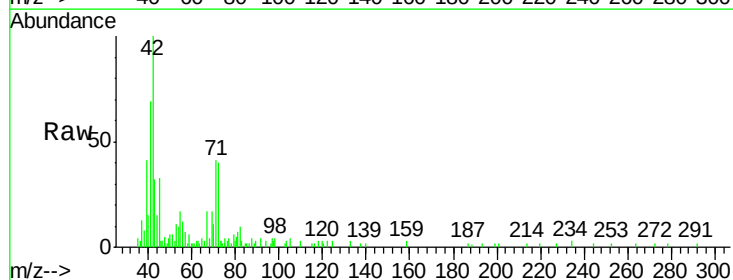
Tgt Ion: 42 Resp: 10628

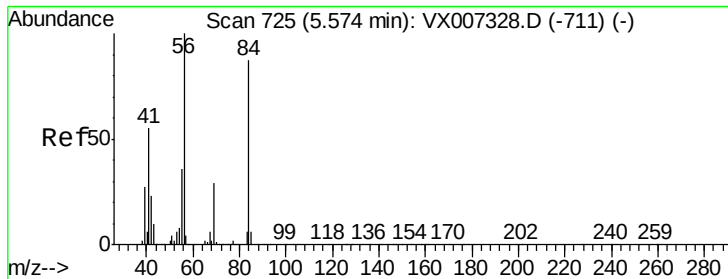
Ion Ratio Lower Upper

42 100

72 50.6 37.6 56.4

71 0.0 34.6 51.8#





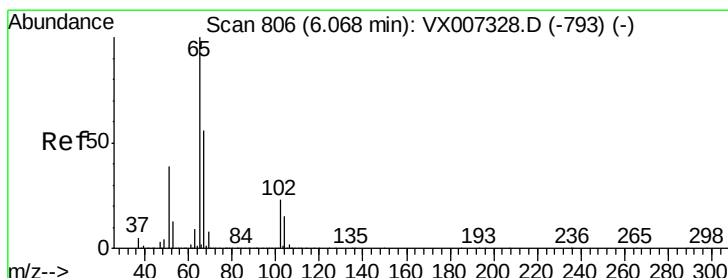
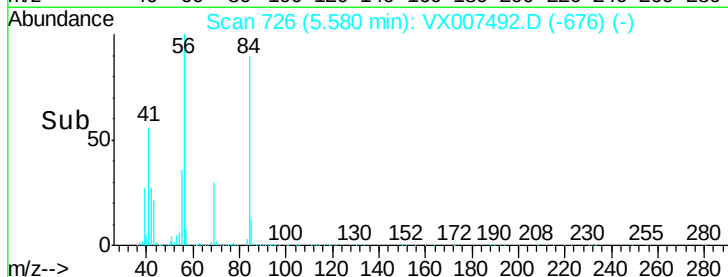
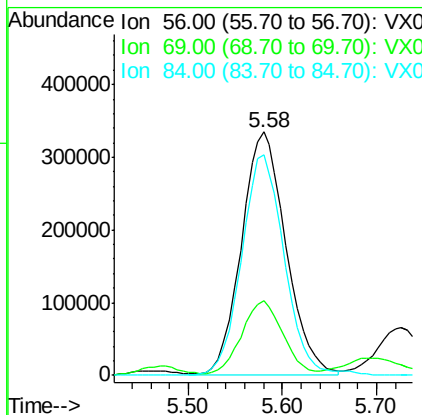
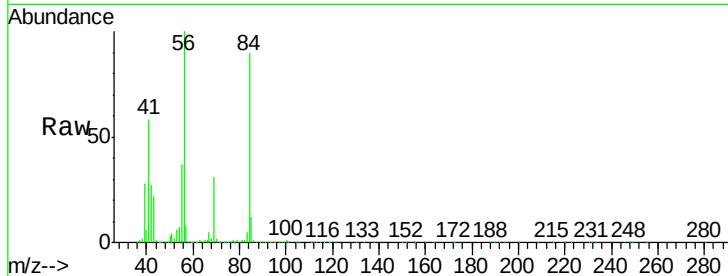
#31  
Cyclohexane  
Concen: 144.094 ug/l  
RT: 5.58 min Scan# 726  
Delta R.T. 0.01 min  
Lab File: VX007492.D  
Acq: 12 Feb 2019 16:50

Instrument :  
MSVOA\_X  
ClientSampleId :  
IDW-LIQUID-01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 56      | 100   |       |       |
| 69      | 29.2  | 23.0  | 34.6  |
| 84      | 90.8  | 69.8  | 104.6 |

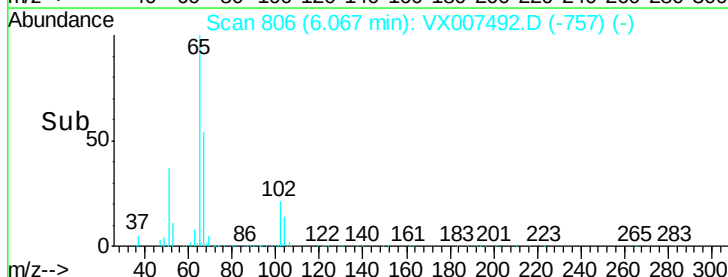
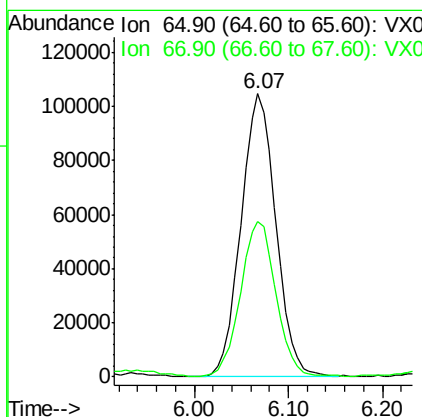
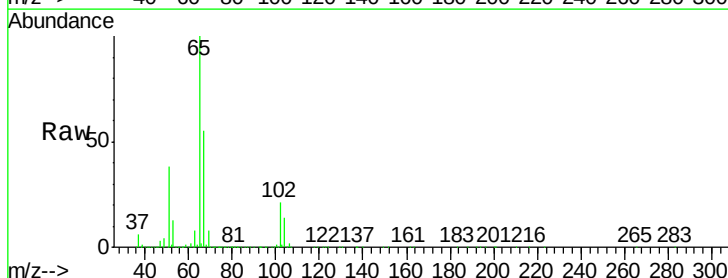
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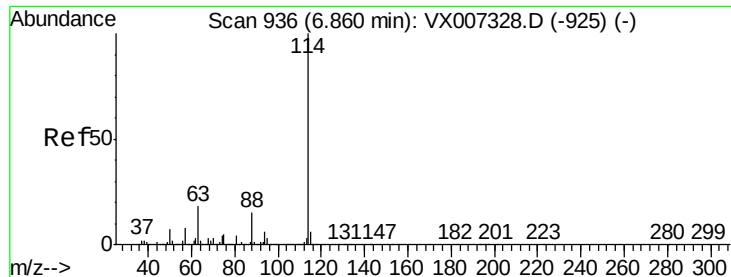
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#33  
1,2-Dichloroethane-d4  
Concen: 48.752 ug/l  
RT: 6.07 min Scan# 806  
Delta R.T. -0.00 min  
Lab File: VX007492.D  
Acq: 12 Feb 2019 16:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 65      | 100   |       |       |
| 67      | 55.5  | 0.0   | 108.8 |





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX007492.D

Acq: 12 Feb 2019 16:50

Instrument :

MSVOA\_X

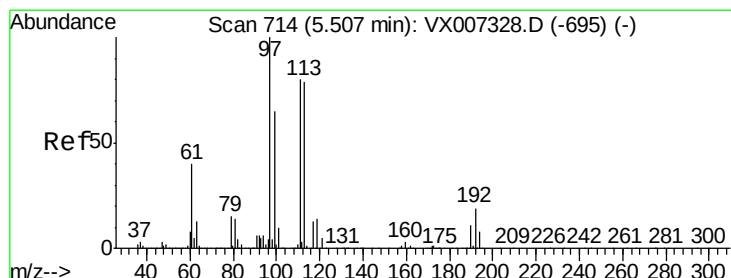
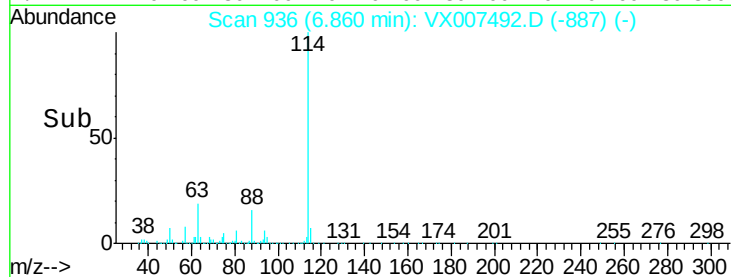
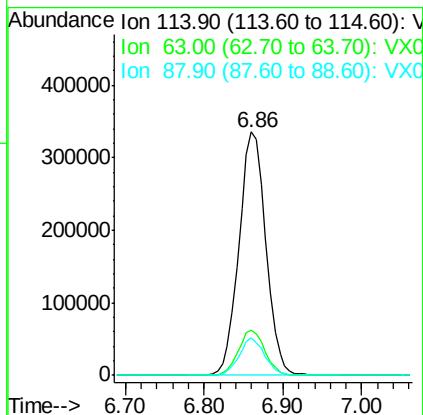
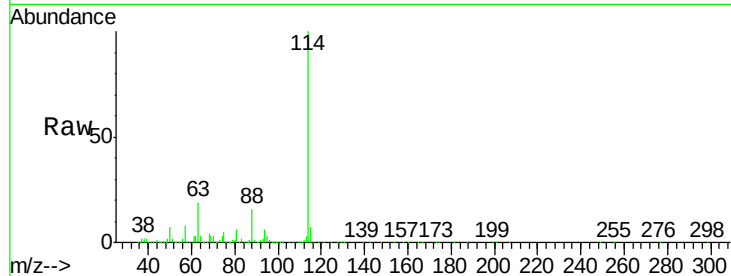
ClientSampleId :

IDW-LIQUID-01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 114   | Resp: | 796180 |
| Ion Ratio | Lower | Upper |        |
| 114       | 100   |       |        |
| 63        | 18.5  | 0.0   | 35.6   |
| 88        | 15.6  | 0.0   | 29.6   |

Manual Integrations  
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#35

Dibromofluoromethane

Concen: 49.118 ug/l

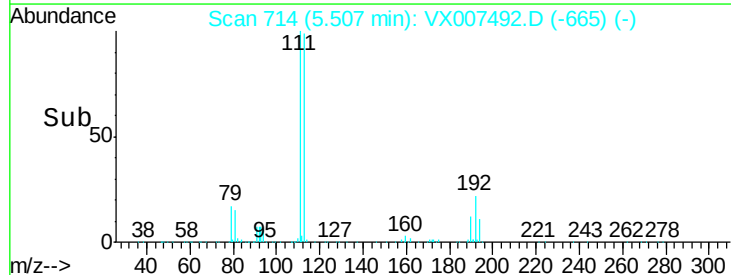
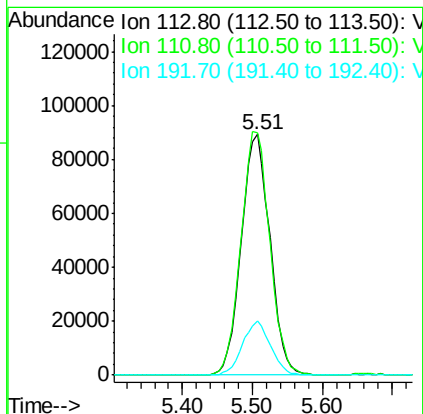
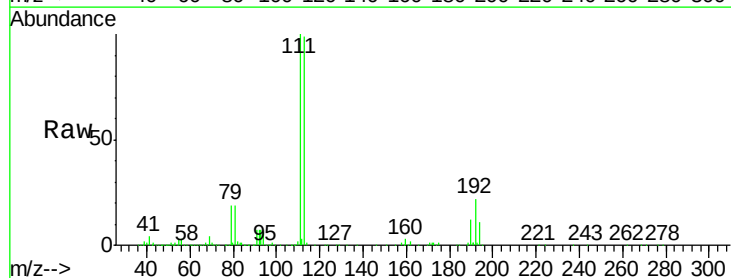
RT: 5.51 min Scan# 714

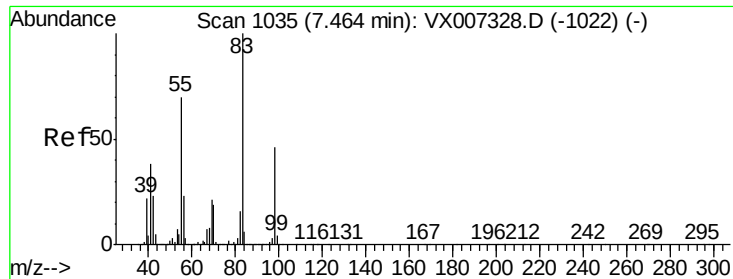
Delta R.T. -0.00 min

Lab File: VX007492.D

Acq: 12 Feb 2019 16:50

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 113   | Resp: | 254456 |
| Ion Ratio | Lower | Upper |        |
| 113       | 100   |       |        |
| 111       | 101.6 | 81.8  | 122.8  |
| 192       | 22.0  | 18.5  | 27.7   |





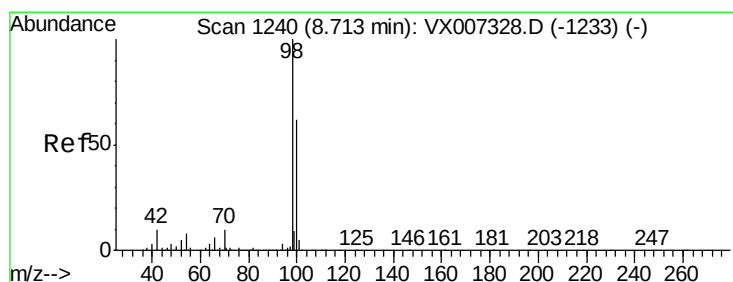
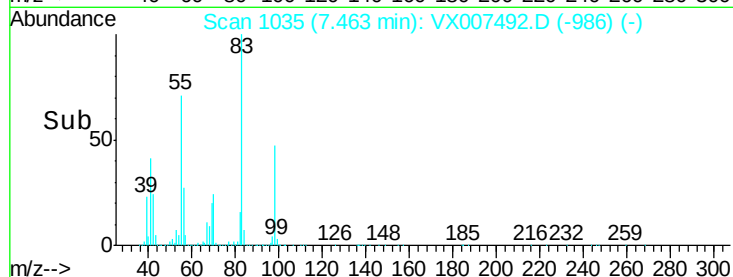
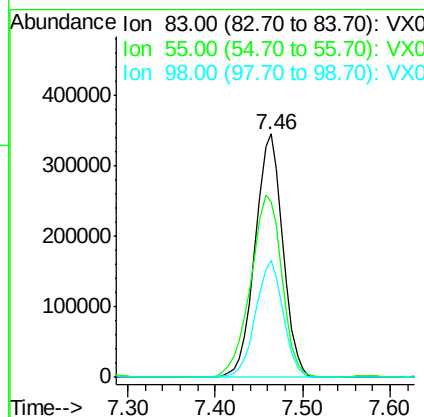
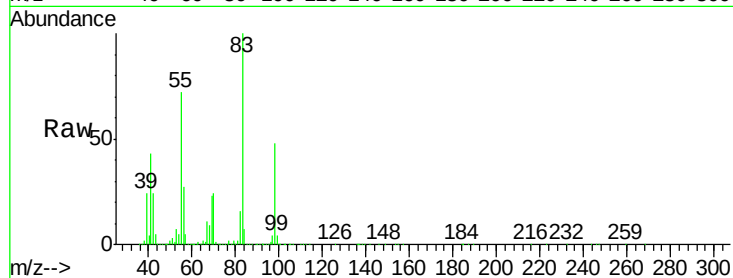
#39  
Methylvlcyclohexane  
Concen: 87.677 ug/l  
RT: 7.46 min Scan# 1035  
Delta R.T. -0.00 min  
Lab File: VX007492.D  
Acq: 12 Feb 2019 16:50

Instrument :  
MSVOA\_X  
ClientSampleId :  
IDW-LIQUID-01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 55      | 72.3  | 56.2  | 84.2  |
| 98      | 48.1  | 36.8  | 55.2  |

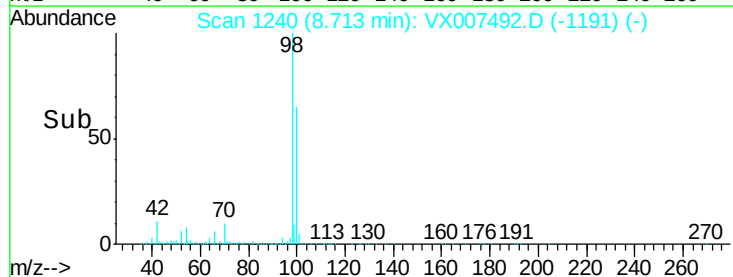
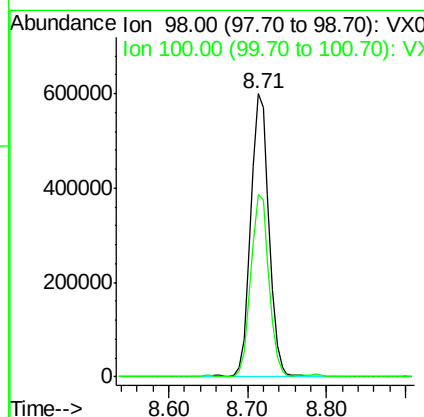
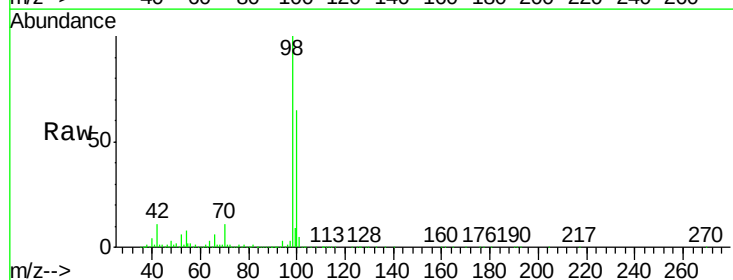
Manual Integrations  
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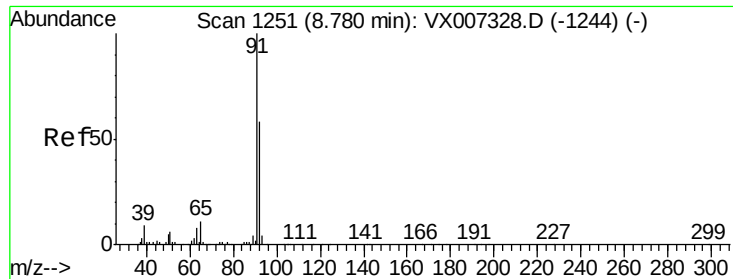
MMDadoda  
2/13/2019 12:01:05 PM



#50  
Toluene-d8  
Concen: 50.360 ug/l  
RT: 8.71 min Scan# 1240  
Delta R.T. -0.00 min  
Lab File: VX007492.D  
Acq: 12 Feb 2019 16:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 98      | 100   |       |       |
| 100     | 63.6  | 51.6  | 77.4  |





#52

Toluene

Concen: 546.574 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. 0.01 min

Lab File: VX007492.D

Acq: 12 Feb 2019 16:50

Instrument :

MSVOA\_X

ClientSampleId :

IDW-LIQUID-01

Tot Ion: 92 Resp: 7420688

Ion Ratio Lower Upper

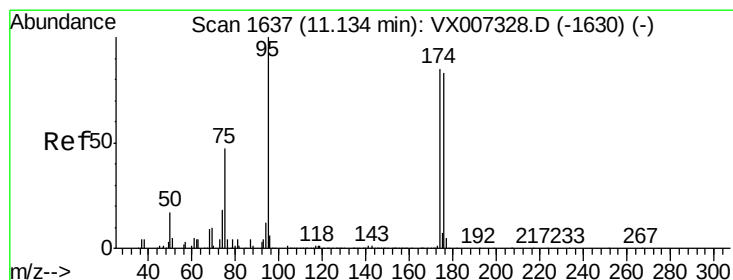
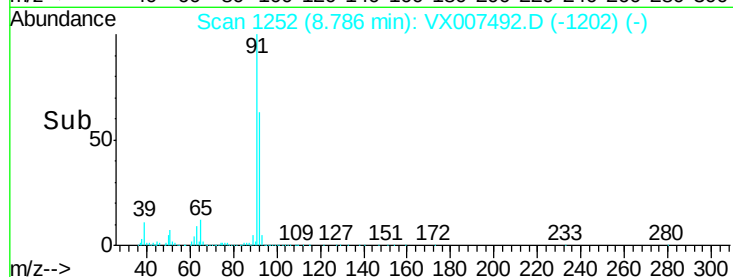
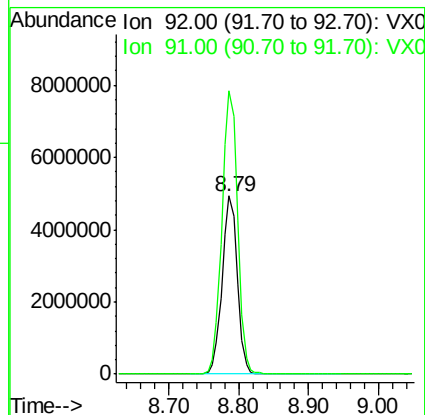
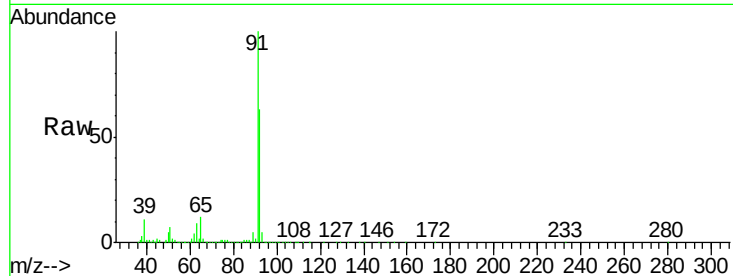
92 100

91 165.3 139.1 208.7

Manual Integrations  
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2/13/2019 12:01:05 PM



#62

4-Bromofluorobenzene

Concen: 49.046 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX007492.D

Acq: 12 Feb 2019 16:50

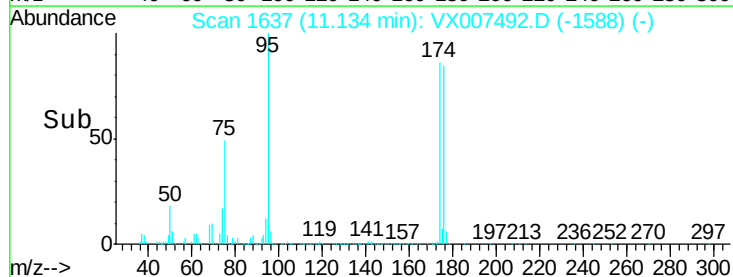
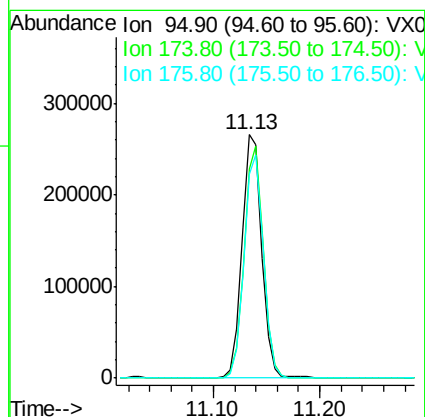
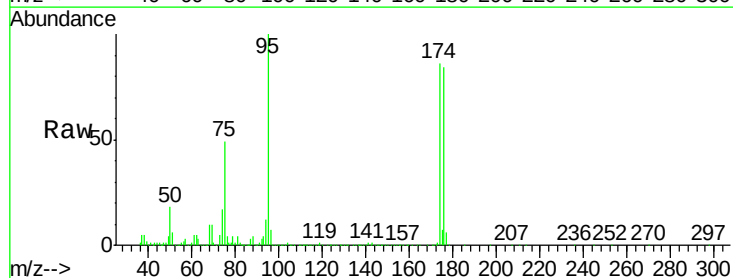
Tgt Ion: 95 Resp: 344178

Ion Ratio Lower Upper

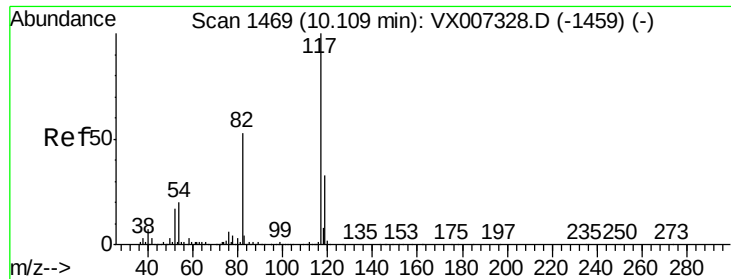
95 100

174 92.8 0.0 189.2

176 90.6 0.0 186.2







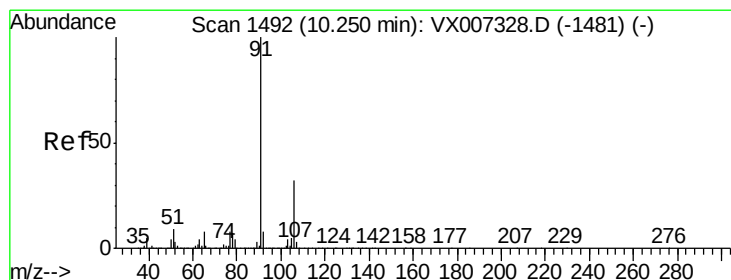
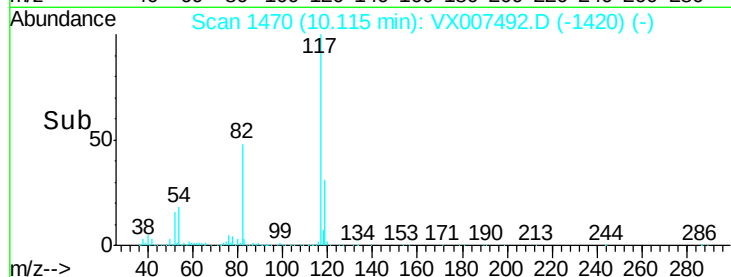
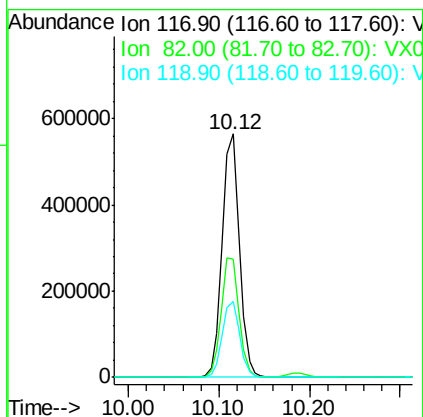
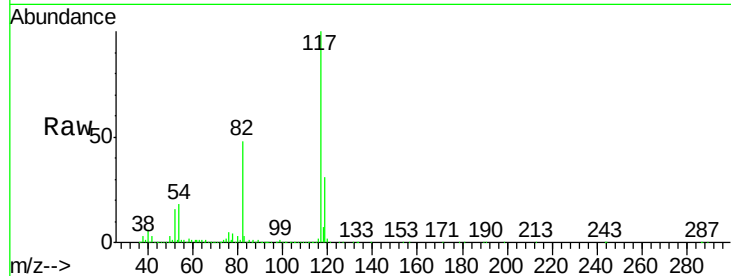
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.12 min Scan# 1470  
Delta R.T. 0.01 min  
Lab File: VX007492.D  
Acq: 12 Feb 2019 16:50

Instrument :  
MSVOA\_X  
ClientSampleId :  
IDW-LIQUID-01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 48.3  | 42.1  | 63.1  |
| 119     | 31.4  | 26.5  | 39.7  |

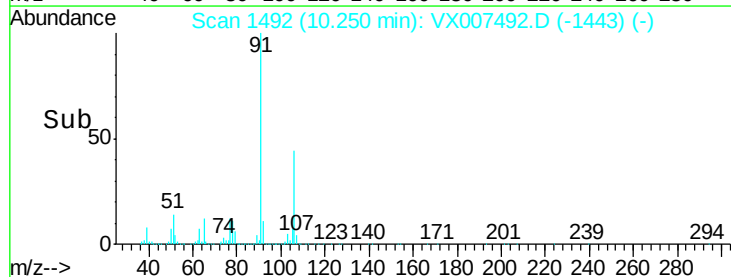
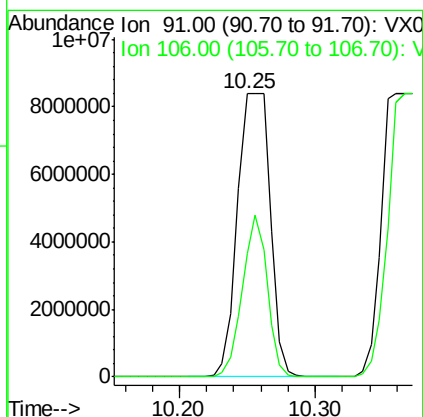
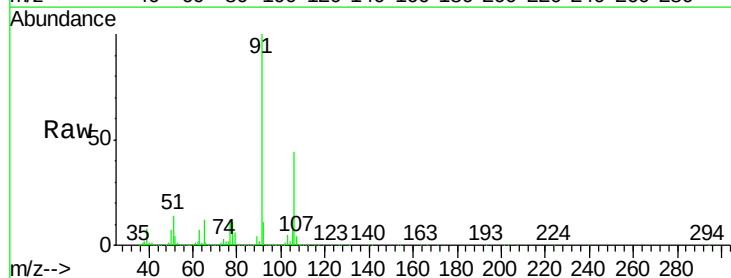
Manual Integrations  
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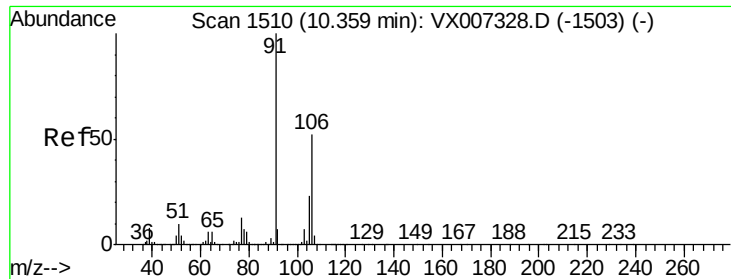
MMDadoda  
2/13/2019 12:01:05 PM



#67  
Ethyl Benzene  
Concen: 534.439 ug/l  
RT: 10.25 min Scan# 1492  
Delta R.T. -0.00 min  
Lab File: VX007492.D  
Acq: 12 Feb 2019 16:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 106     | 43.6  | 25.4  | 38.0  |





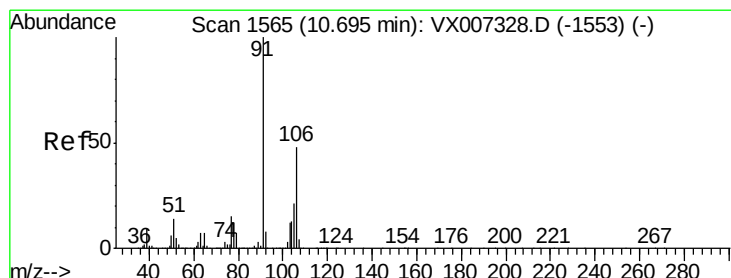
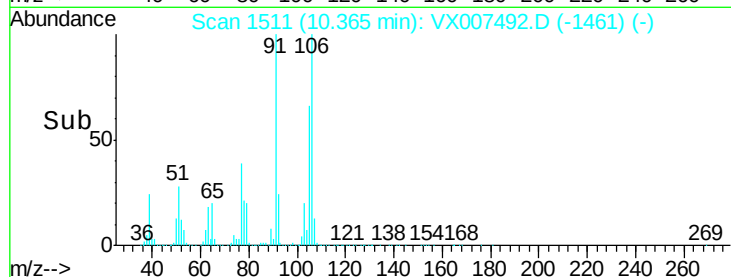
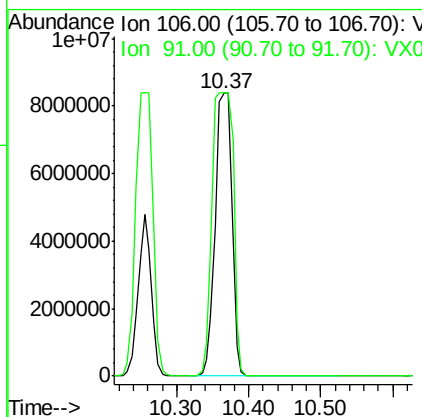
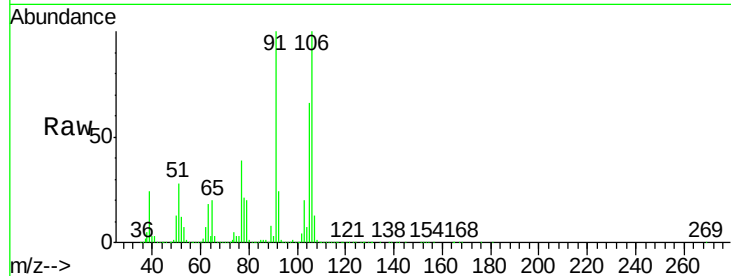
#68  
m/p-Xylenes  
Concen: 1270.453 ug/l  
RT: 10.37 min Scan# 1511  
Delta R.T. 0.01 min  
Lab File: VX007492.D  
Acq: 12 Feb 2019 16:50

Instrument :  
MSVOA\_X  
ClientSampleId :  
IDW-LIQUID-01

Tot Ion:106 Resp:13393218  
Ion Ratio Lower Upper  
106 100  
91 128.4 156.6 234.8#

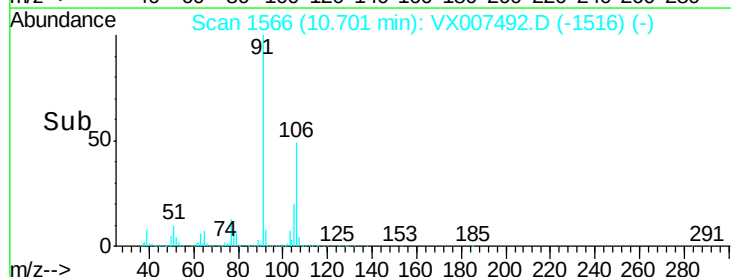
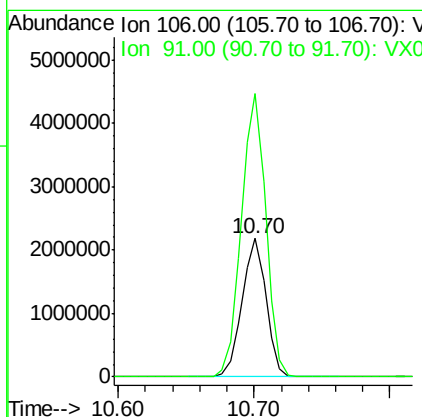
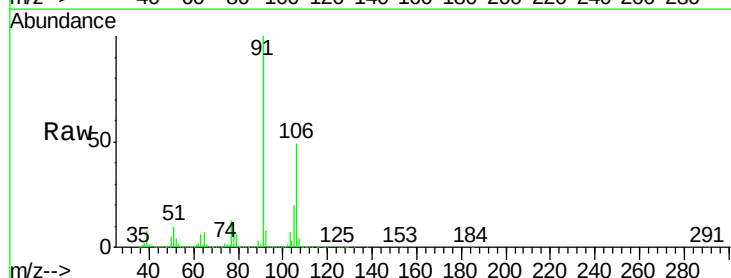
Manual Integrations  
APPROVED

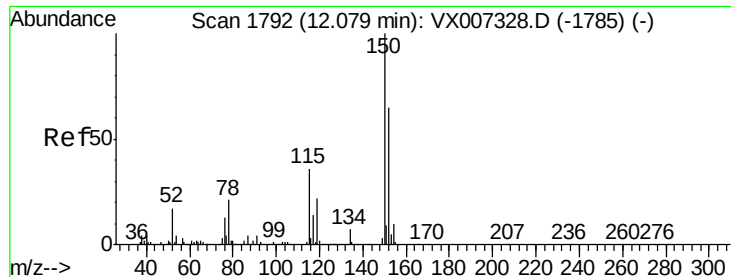
MMDadoda  
2/13/2019 12:01:05 PM



#69  
o-Xylene  
Concen: 264.323 ug/l  
RT: 10.70 min Scan# 1566  
Delta R.T. 0.01 min  
Lab File: VX007492.D  
Acq: 12 Feb 2019 16:50

Tgt Ion:106 Resp: 2681322  
Ion Ratio Lower Upper  
106 100  
91 208.9 102.9 308.7





#72

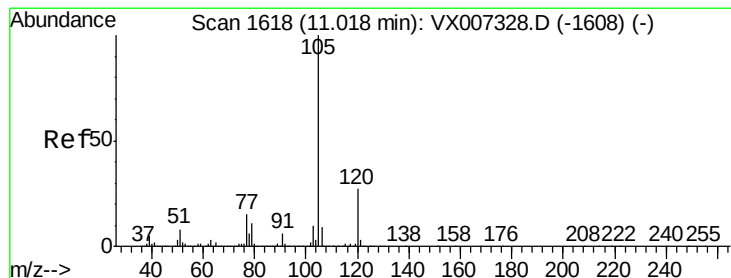
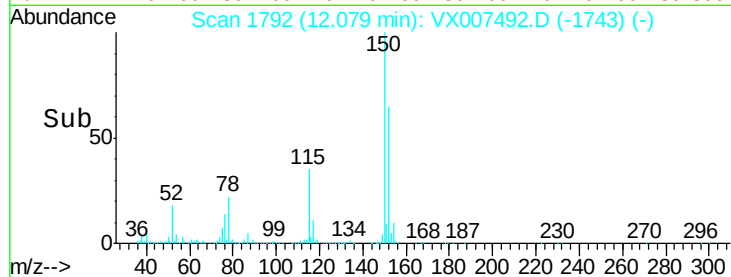
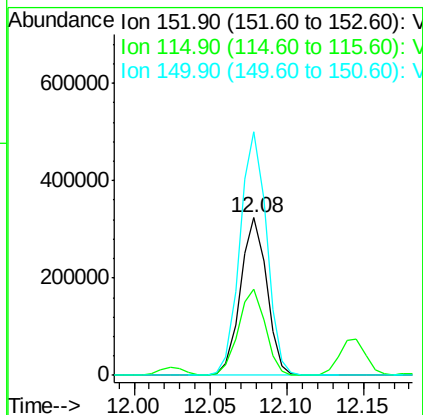
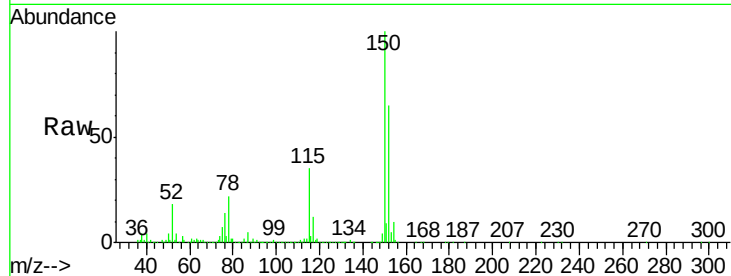
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. -0.00 min  
Lab File: VX007492.D  
Acq: 12 Feb 2019 16:50

Instrument :  
MSVOA\_X  
ClientSampleId :  
IDW-LIQUID-01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 55.8  | 38.0  | 114.0 |
| 150     | 157.0 | 0.0   | 346.4 |

Manual Integrations  
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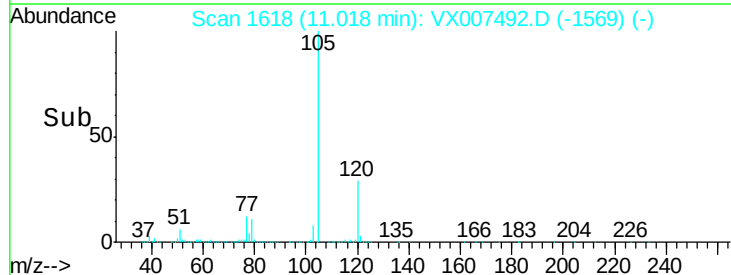
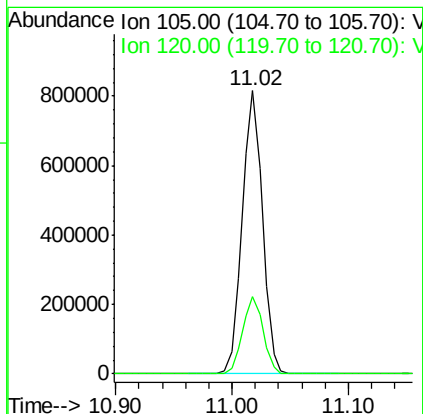
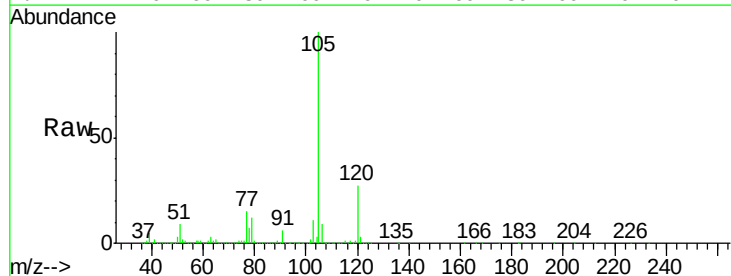
MMDadoda  
2/13/2019 12:01:05 PM

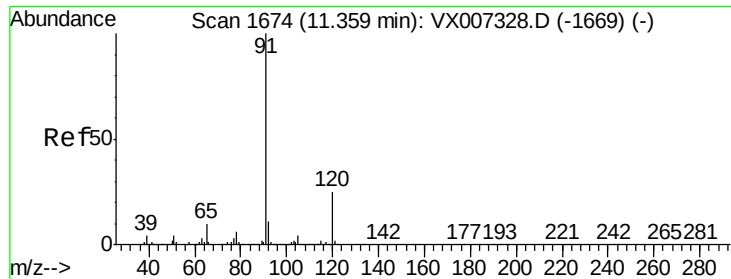


#73

Isopropylbenzene  
Concen: 37.901 ug/l  
RT: 11.02 min Scan# 1618  
Delta R.T. -0.00 min  
Lab File: VX007492.D  
Acq: 12 Feb 2019 16:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 27.6  | 13.6  | 40.7  |





#78

n-propylbenzene

Concen: 104.926 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. -0.00 min

Lab File: VX007492.D

Acq: 12 Feb 2019 16:50

Instrument :

MSVOA\_X

ClientSampleId :

IDW-LIQUID-01

Tot Ion: 91 Resp: 3012865

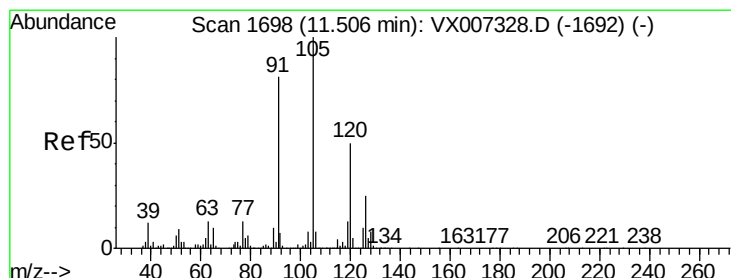
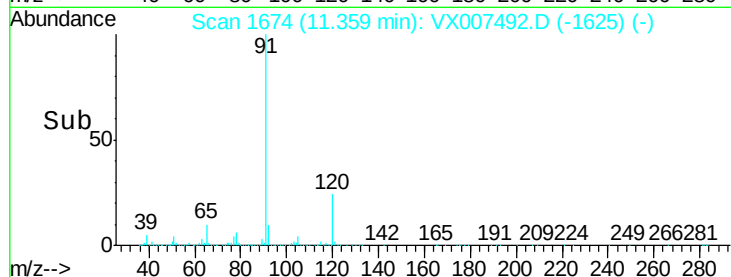
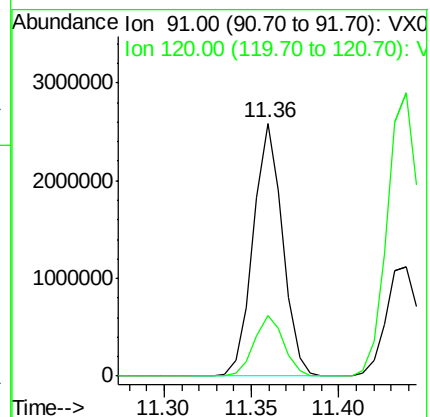
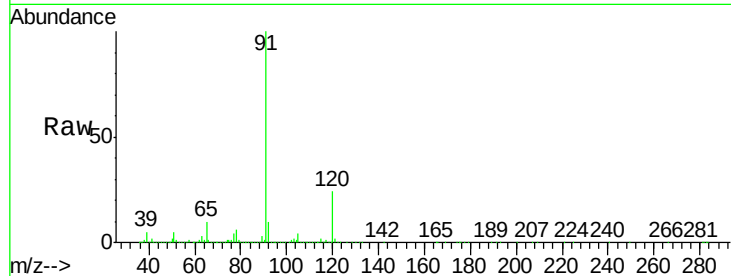
Ion Ratio Lower Upper

91 100

120 24.1 12.4 37.2

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#80

1,3,5-Trimethylbenzene

Concen: 161.316 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VX007492.D

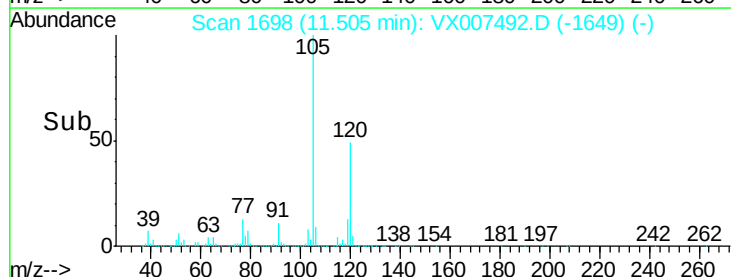
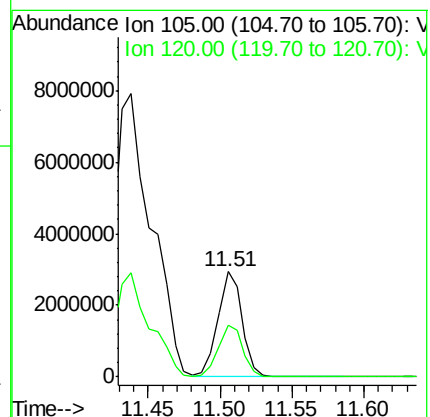
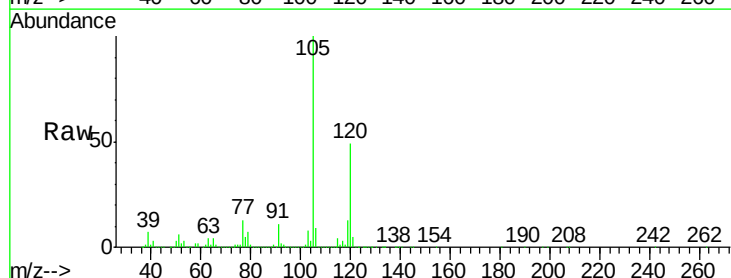
Acq: 12 Feb 2019 16:50

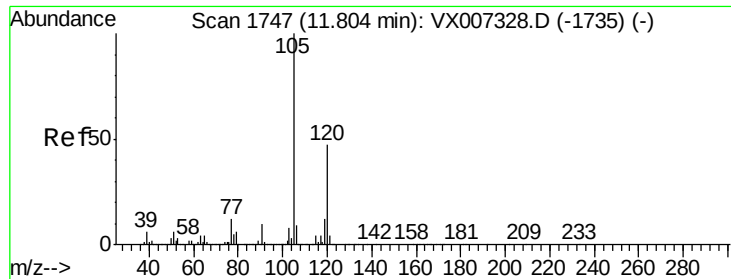
Tgt Ion: 105 Resp: 3455896

Ion Ratio Lower Upper

105 100

120 49.9 25.3 75.8





#84

1,2,4-Trimethylbenzene

Concen: 524.693 ug/l

RT: 11.81 min Scan# 1748

Delta R.T. 0.01 min

Lab File: VX007492.D

Acq: 12 Feb 2019 16:50

Instrument :

MSVOA\_X

ClientSampleId :

IDW-LIQUID-01

Tot Ion:105 Resp:11411783

Ion Ratio Lower Upper

105 100

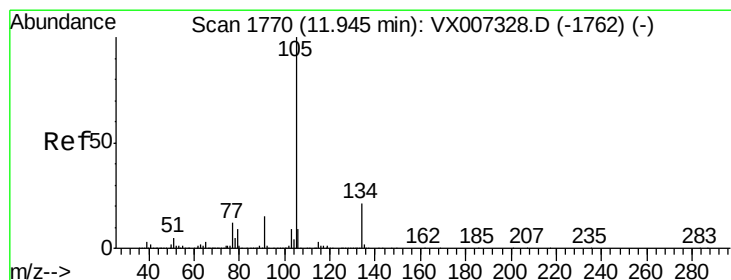
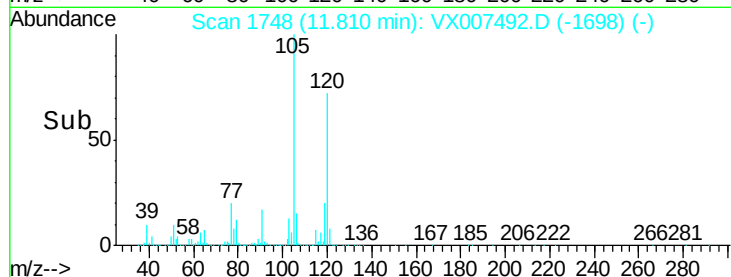
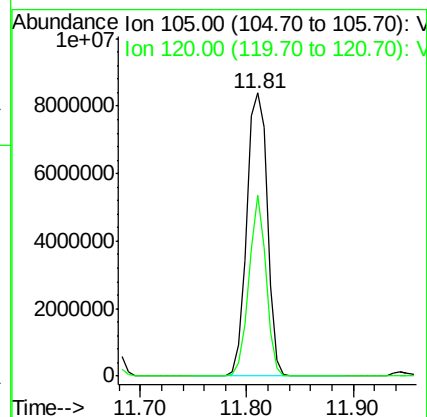
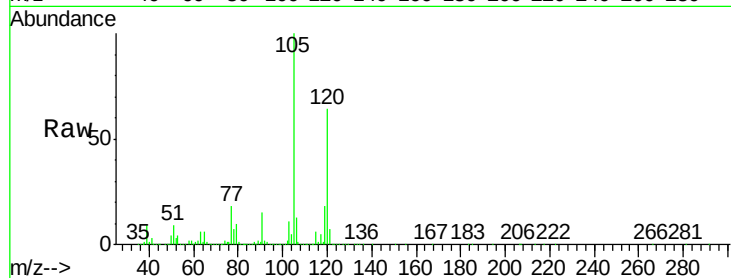
120 53.1 23.1 69.3

Manual Integrations

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#85

sec-Butylbenzene

Concen: 5.268 ug/l m

RT: 11.94 min Scan# 1770

Delta R.T. -0.00 min

Lab File: VX007492.D

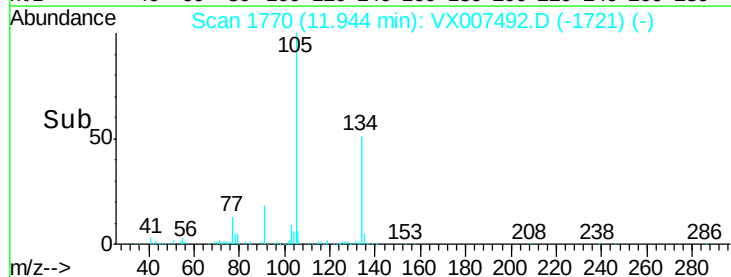
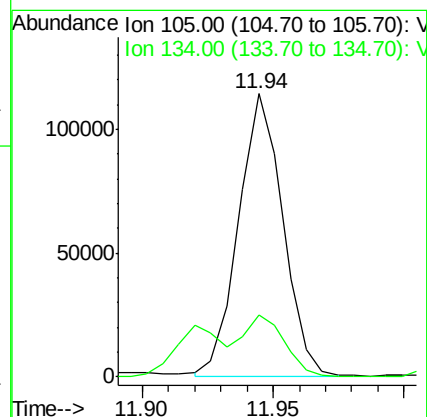
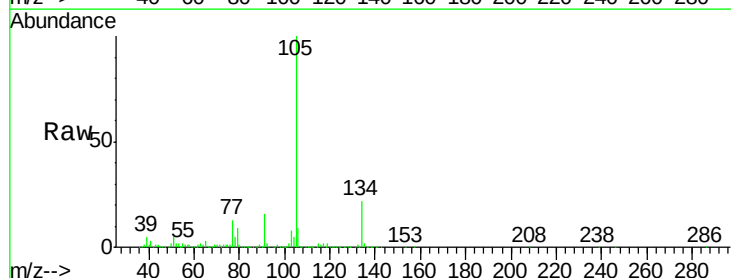
Acq: 12 Feb 2019 16:50

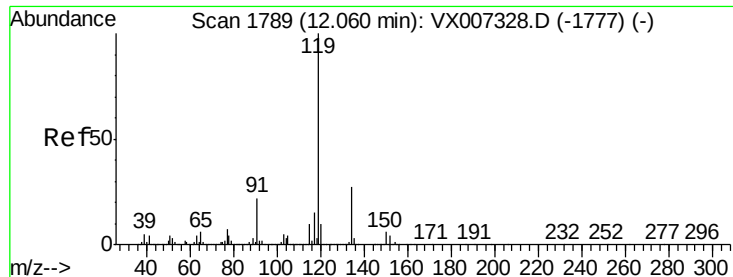
Tgt Ion:105 Resp: 135227

Ion Ratio Lower Upper

105 100

134 0.0 10.6 31.8#





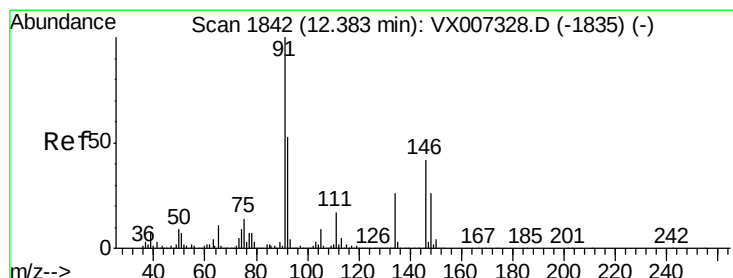
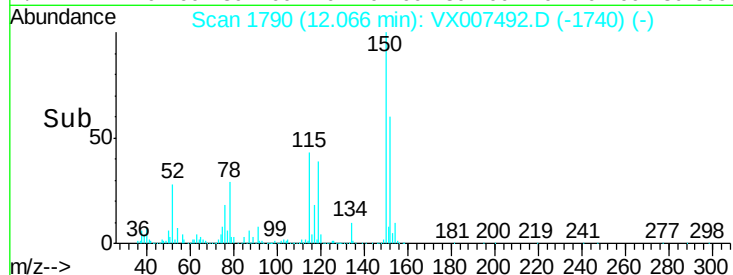
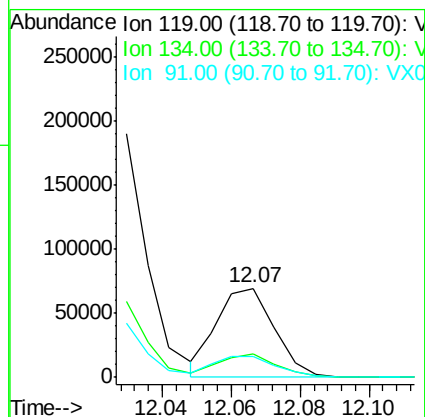
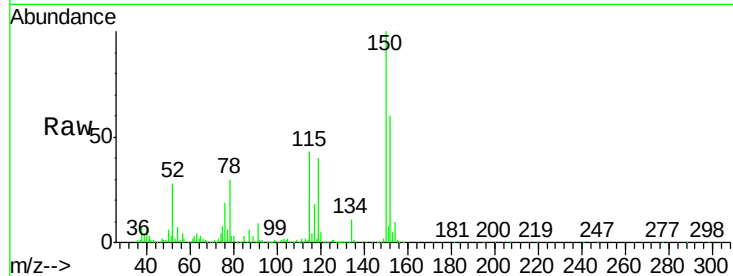
#86  
 p-Isopropyltoluene  
 Concen: 3.499 ug/l m  
 RT: 12.07 min Scan# 1790  
 Delta R.T. 0.01 min  
 Lab File: VX007492.D  
 Acq: 12 Feb 2019 16:50

Instrument :  
 MSVOA\_X  
 ClientSampled :  
 IDW-LIQUID-01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 98.1  | 13.7  | 41.1# |
| 91      | 77.5  | 11.2  | 33.5# |

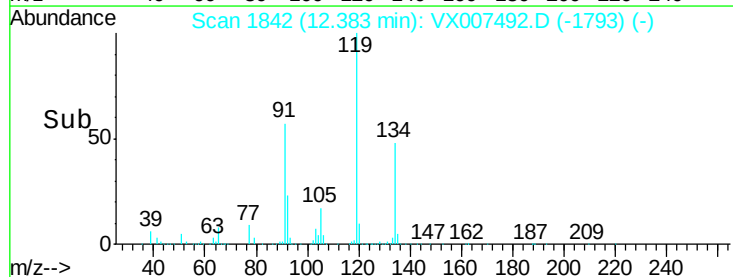
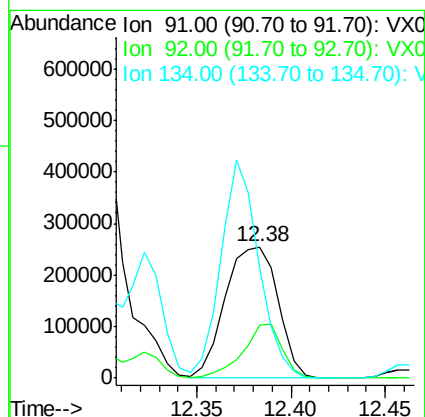
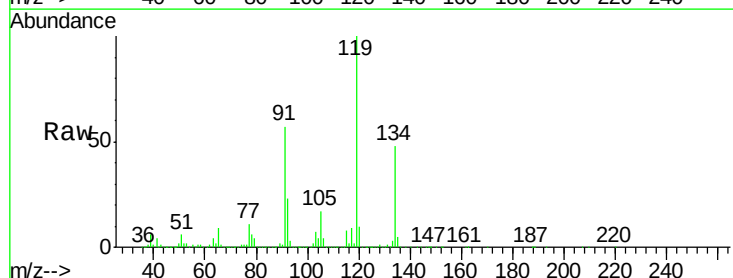
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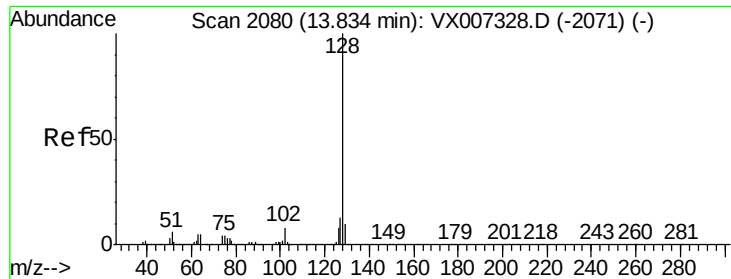
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 2/13/2019 12:01:05 PM



#89  
 n-Butylbenzene  
 Concen: 24.650 ug/l  
 RT: 12.38 min Scan# 1842  
 Delta R.T. -0.00 min  
 Lab File: VX007492.D  
 Acq: 12 Feb 2019 16:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 30.6  | 26.3  | 78.9  |
| 134     | 120.1 | 13.9  | 41.6# |





#95  
Naphthalene  
Concen: 161.436 ug/l  
RT: 13.83 min Scan# 2080  
Delta R.T. -0.00 min  
Lab File: VX007492.D  
Acq: 12 Feb 2019 16:50

Instrument :  
MSVOA\_X  
ClientSampleId :  
IDW-LIQUID-01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 13.1  | 10.5  | 15.7  |
| 129     | 11.2  | 8.7   | 13.1  |

Manual Integrations  
APPROVED

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2/13/2019 12:01:05 PM

