

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062719\  
 Data File : VX010487.D  
 Acq On : 27 Jun 2019 14:32  
 Operator : JC/SP  
 Sample : K3565-01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 FL-0568

Manual Integrations  
 APPROVED

MMDadoda  
 6/28/2019 10:37:41 AM

Quant Time: Jun 28 07:24:37 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       | 5.67   | 168  | 248376   | 50.00   | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 6.86   | 114  | 384848   | 50.00   | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 10.11  | 117  | 348977   | 50.00   | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 12.08  | 152  | 171707   | 50.00   | ug/l    | 0.00     |
| System Monitoring Compounds |        |      |          |         |         |          |
| 33) 1,2-Dichloroethane-d4   | 6.06   | 65   | 118085   | 50.71   | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =       | 101.42% |          |
| 35) Dibromofluoromethane    | 5.50   | 113  | 115856   | 49.20   | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =       | 98.40%  |          |
| 50) Toluene-d8              | 8.71   | 98   | 451301   | 50.10   | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =       | 100.20% |          |
| 62) 4-Bromofluorobenzene    | 11.13  | 95   | 159062   | 48.91   | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =       | 97.82%  |          |
| Target Compounds            |        |      |          |         |         |          |
|                             |        |      |          |         | Qvalue  |          |
| 16) Acetone                 | 2.44   | 43   | 3927m    | 3.365   | ug/l    |          |
| 31) Cyclohexane             | 5.58   | 56   | 214551   | 63.783  | ug/l    | 96       |
| 39) Methylcyclohexane       | 7.46   | 83   | 89060    | 22.155  | ug/l    | 99       |
| 40) Benzene                 | 6.15   | 78   | 435456   | 45.704  | ug/l    | 100      |
| 52) Toluene                 | 8.79   | 92   | 11790    | 1.879   | ug/l    | 97       |
| 67) Ethyl Benzene           | 10.25  | 91   | 1854597  | 155.055 | ug/l    | 100      |
| 68) m/p-Xylenes             | 10.36  | 106  | 759372   | 163.851 | ug/l    | 100      |
| 69) o-Xylene                | 10.69  | 106  | 6485     | 1.423   | ug/l    | 94       |
| 73) Isopropylbenzene        | 11.02  | 105  | 213043   | 18.303  | ug/l    | 99       |
| 78) n-propylbenzene         | 11.36  | 91   | 283459   | 22.158  | ug/l    | 99       |
| 80) 1,3,5-Trimethylbenzene  | 11.51  | 105  | 24119    | 2.514   | ug/l    | 97       |
| 83) tert-Butylbenzene       | 11.77  | 119  | 6924     | 0.719   | ug/l    | 89       |
| 84) 1,2,4-Trimethylbenzene  | 11.80  | 105  | 800250   | 83.010  | ug/l    | 98       |
| 85) sec-Butylbenzene        | 11.94  | 105  | 24080m   | 2.129   | ug/l    |          |
| 86) p-Isopropyltoluene      | 12.06  | 119  | 15899    | 1.520   | ug/l    | 97       |
| 89) n-Butylbenzene          | 12.38  | 91   | 7920m    | 0.891   | ug/l    |          |
| 95) Naphthalene             | 13.83  | 128  | 395586   | 32.921  | ug/l    | 100      |

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

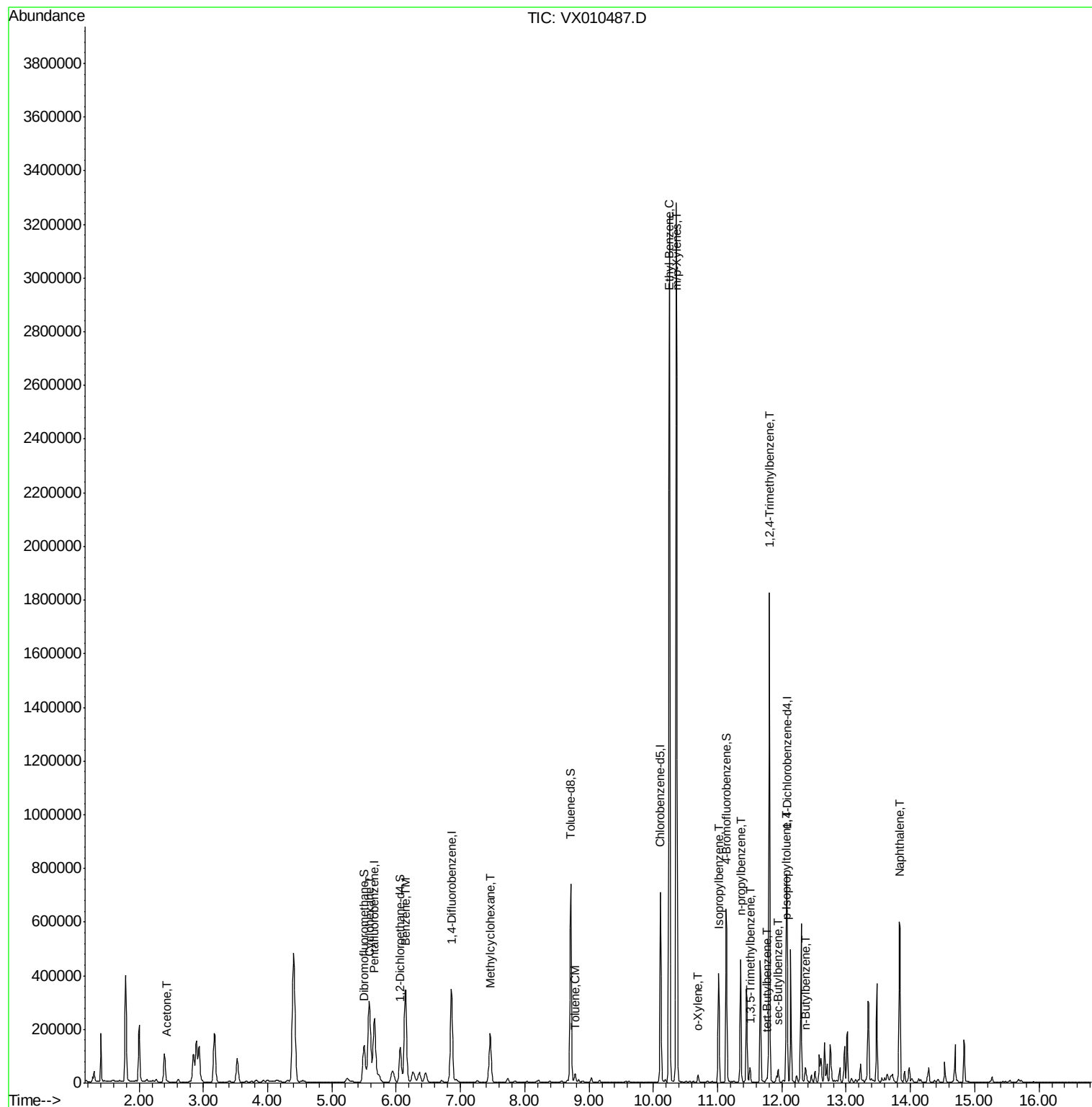
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX062719\  
Data File : VX010487.D  
Acq On : 27 Jun 2019 14:32  
Operator : JC/SP  
Sample : K3565-01  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 13 Sample Multiplier: 1

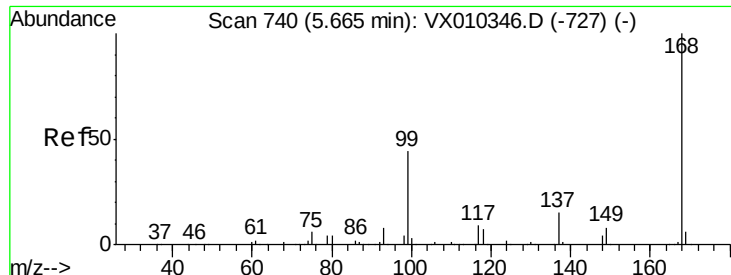
Instrument :  
MSVOA\_X  
ClientSampleId :  
FL-0568

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6/28/2019 10:37:41 AM

Quant Time: Jun 28 07:24:37 2019  
Quant Method : Z:\V0ASRV\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: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX010487.D

Acq: 27 Jun 2019 14:32

Instrument :

MSVOA\_X

ClientSampled :

FL-0568

Tot Ion:168 Resp: 248376

Ion Ratio Lower Upper

168 100

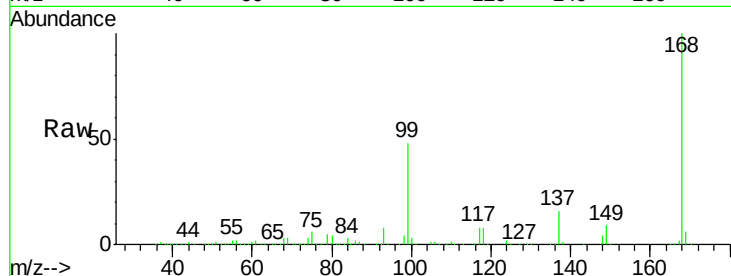
99 48.1 35.5 53.3

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

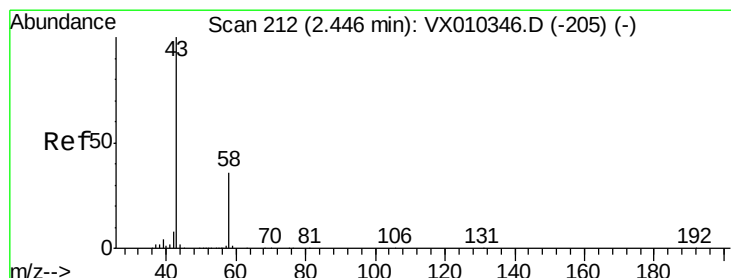
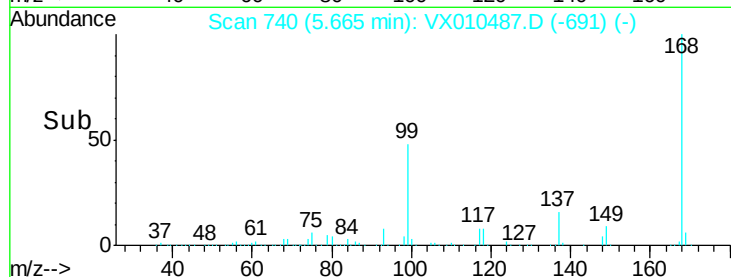
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#16

Acetone

Concen: 3.365 ug/l m

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX010487.D

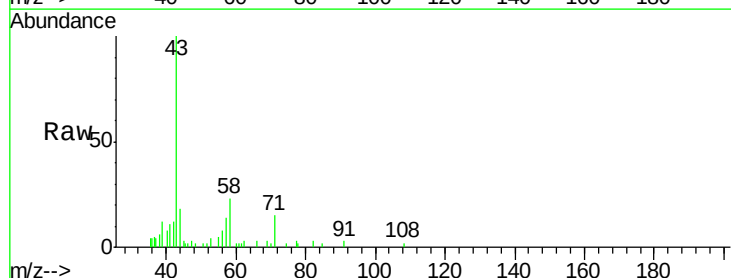
Acq: 27 Jun 2019 14:32

Tgt Ion: 43 Resp: 3927

Ion Ratio Lower Upper

43 100

58 23.4 28.9 43.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

20000

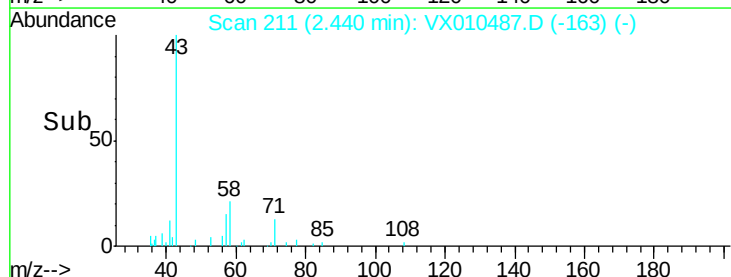
15000

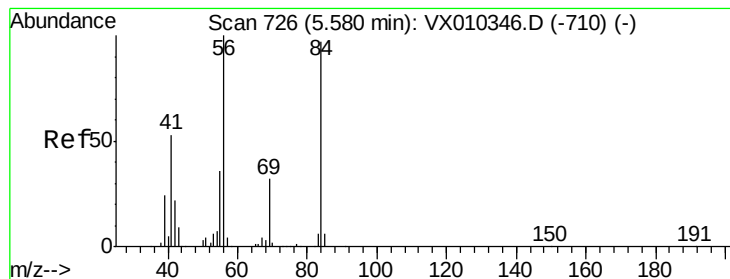
10000

5000

0

Time--> 2.40 2.45 2.50





#31

Cyclohexane

Concen: 63.783 ug/l

RT: 5.58 min Scan# 726

Delta R.T. 0.00 min

Lab File: VX010487.D

Acq: 27 Jun 2019 14:32

Instrument :

MSVOA\_X

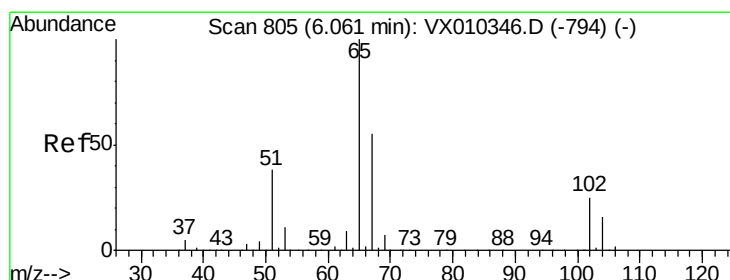
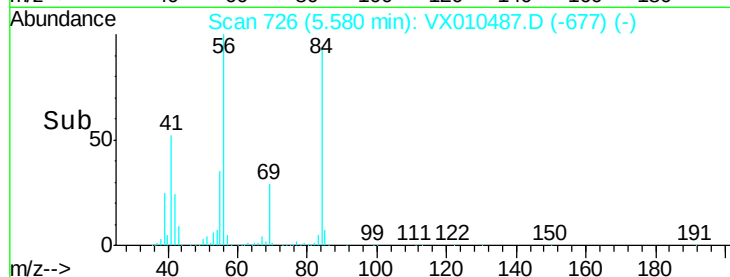
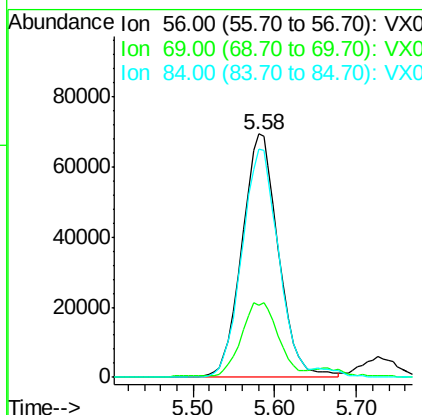
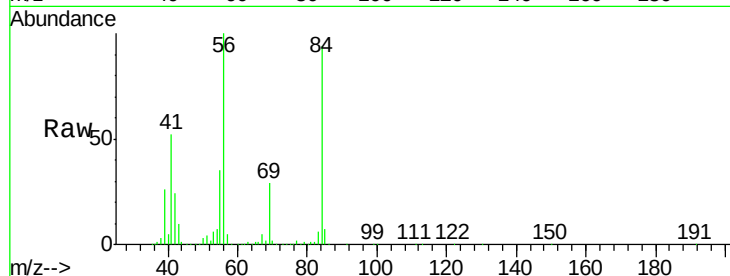
ClientSampleId :

FL-0568

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 56    | Resp: | 214551 |
| Ion Ratio | Lower | Upper |        |
| 56        | 100   |       |        |
| 69        | 28.9  | 25.9  | 38.9   |
| 84        | 93.7  | 78.0  | 117.0  |

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#33

1,2-Dichloroethane-d4

Concen: 50.707 ug/l

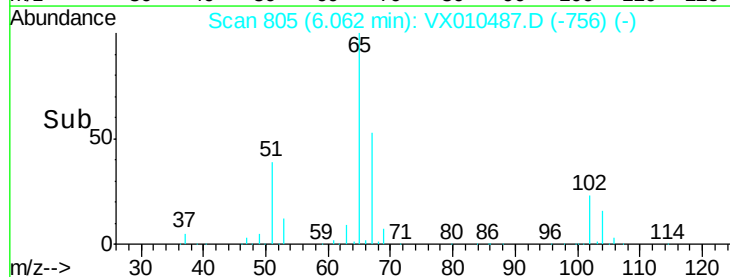
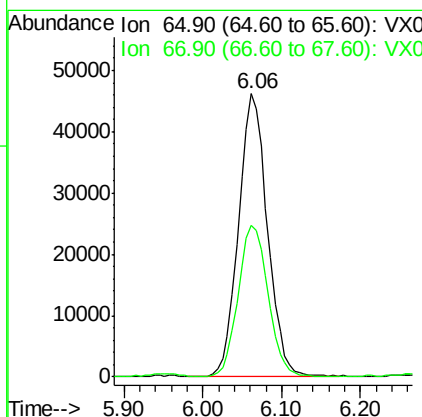
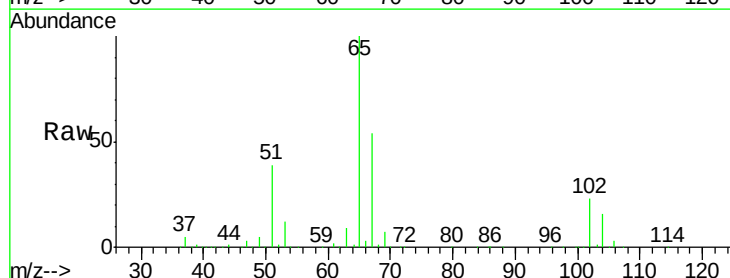
RT: 6.06 min Scan# 805

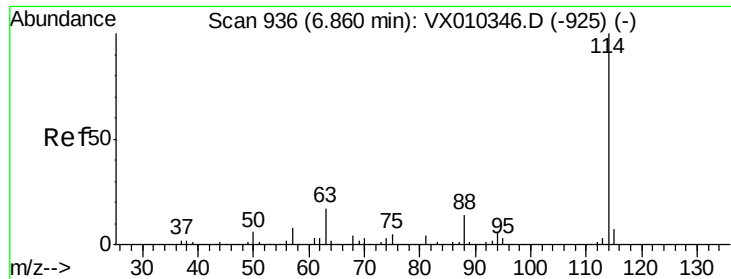
Delta R.T. 0.00 min

Lab File: VX010487.D

Acq: 27 Jun 2019 14:32

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 65    | Resp: | 118085 |
| Ion Ratio | Lower | Upper |        |
| 65        | 100   |       |        |
| 67        | 55.2  | 0.0   | 110.2  |





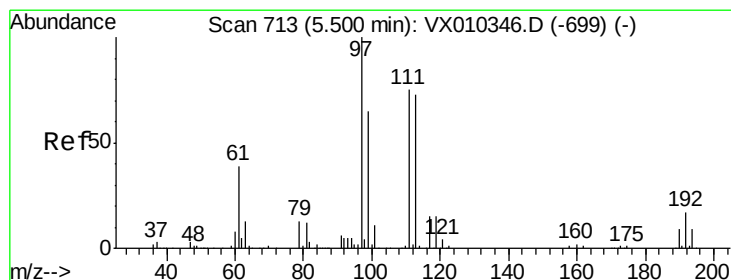
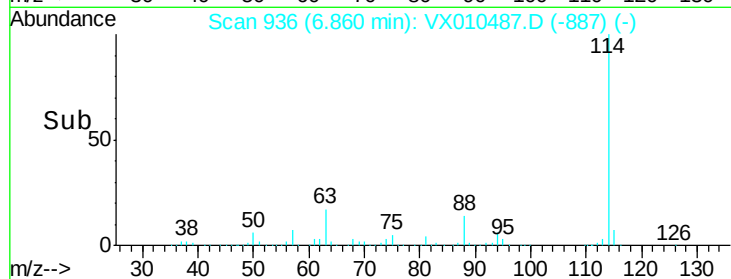
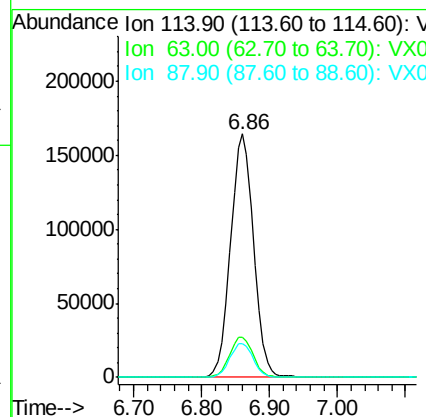
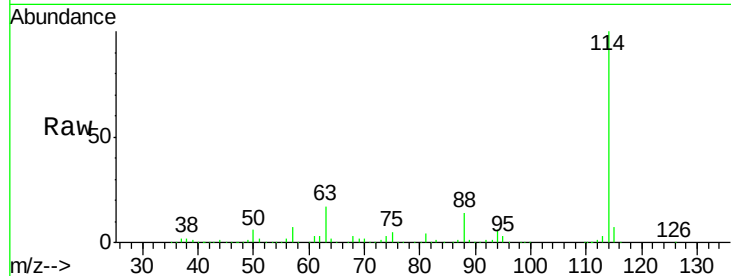
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.86 min Scan# 936  
 Delta R.T. 0.00 min  
 Lab File: VX010487.D  
 Acq: 27 Jun 2019 14:32

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
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| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 114     | 100   | 384848 |       |       |
| 63      | 16.6  |        | 0.0   | 33.8  |
| 88      | 14.0  |        | 0.0   | 27.6  |

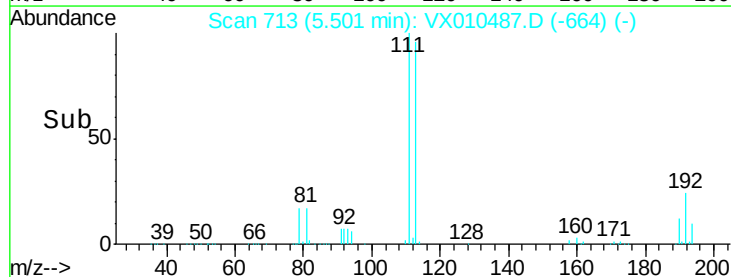
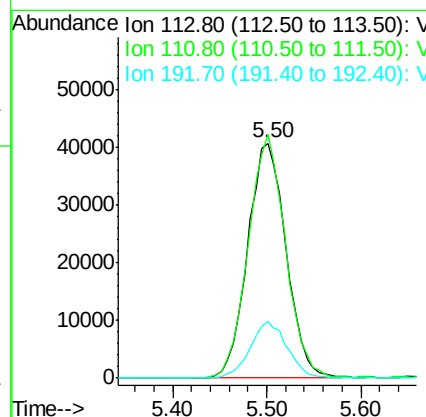
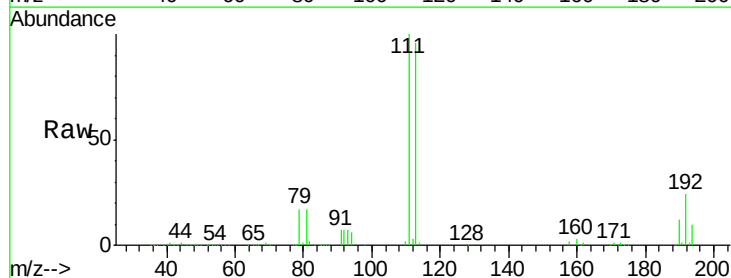
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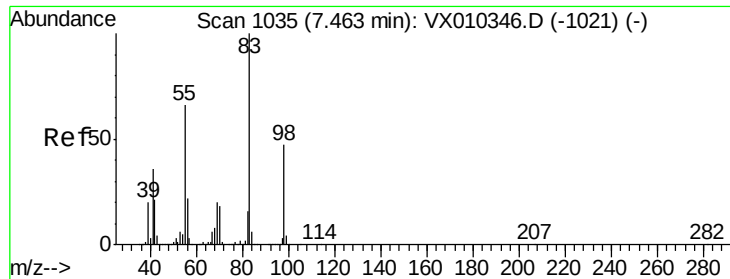
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#35  
 Dibromofluoromethane  
 Concen: 49.203 ug/l  
 RT: 5.50 min Scan# 713  
 Delta R.T. 0.00 min  
 Lab File: VX010487.D  
 Acq: 27 Jun 2019 14:32

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 113     | 100   | 115856 |       |       |
| 111     | 100.7 |        | 81.2  | 121.8 |
| 192     | 23.1  |        | 18.6  | 27.8  |





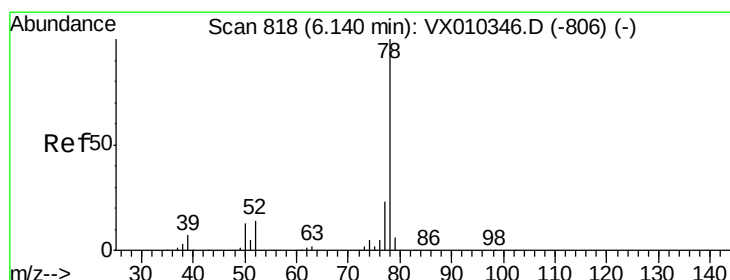
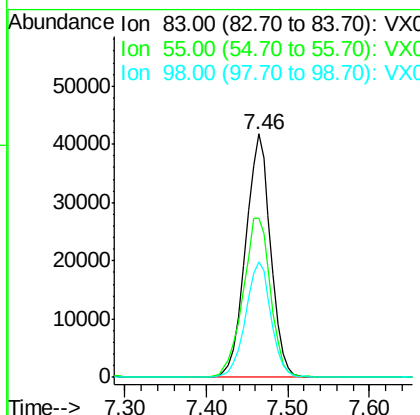
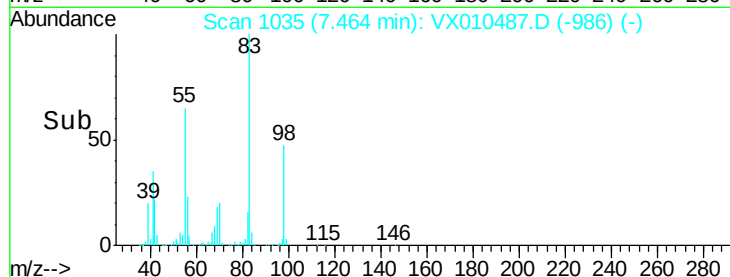
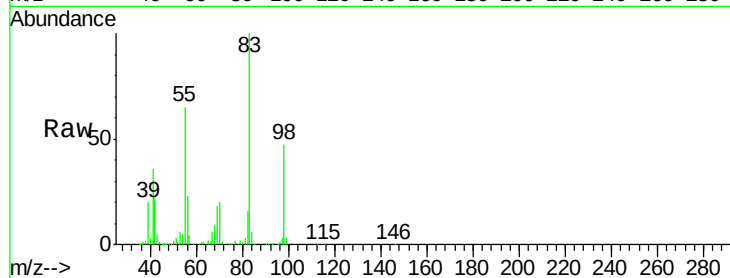
#39  
Methylvlcyclohexane  
Concen: 22.155 ug/l  
RT: 7.46 min Scan# 1035  
Delta R.T. 0.00 min  
Lab File: VX010487.D  
Acq: 27 Jun 2019 14:32

Instrument :  
MSVOA\_X  
ClientSampled :  
FL-0568

| Tot Ion   | 83   | Resp  | 89060 |
|-----------|------|-------|-------|
| Ion Ratio | 100  | Lower | Upper |
| 83        | 100  |       |       |
| 55        | 65.1 | 53.0  | 79.6  |
| 98        | 47.4 | 37.8  | 56.8  |

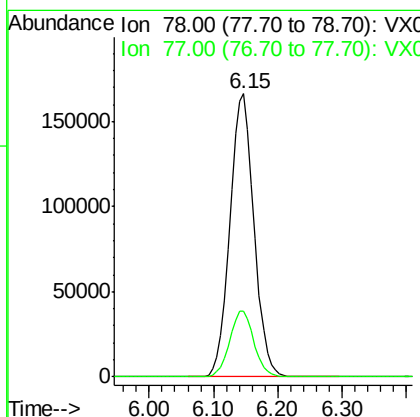
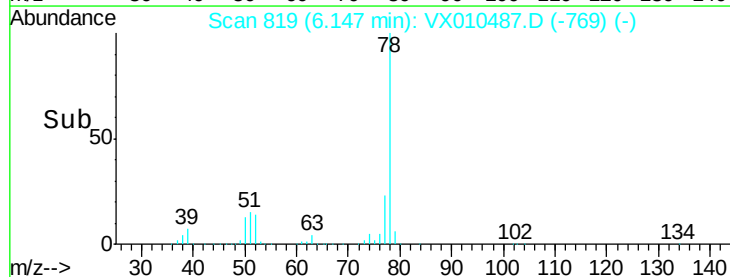
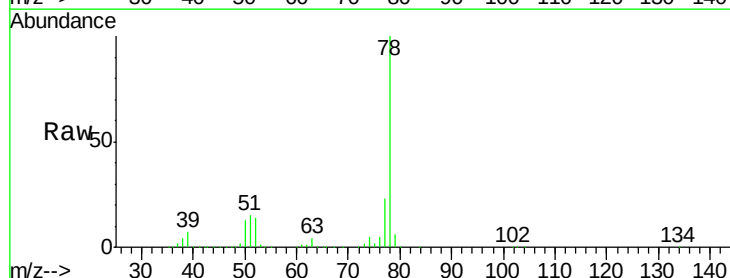
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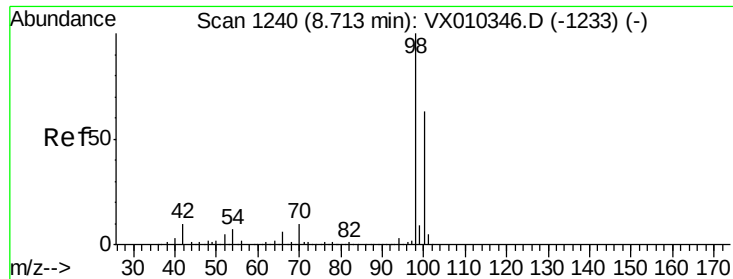
MMDadoda  
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#40  
Benzene  
Concen: 45.704 ug/l  
RT: 6.15 min Scan# 819  
Delta R.T. 0.01 min  
Lab File: VX010487.D  
Acq: 27 Jun 2019 14:32

| Tgt Ion   | 78   | Resp  | 435456 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 78        | 100  |       |        |
| 77        | 23.2 | 18.6  | 28.0   |





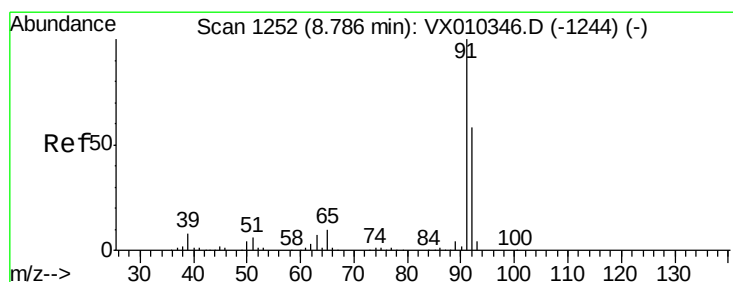
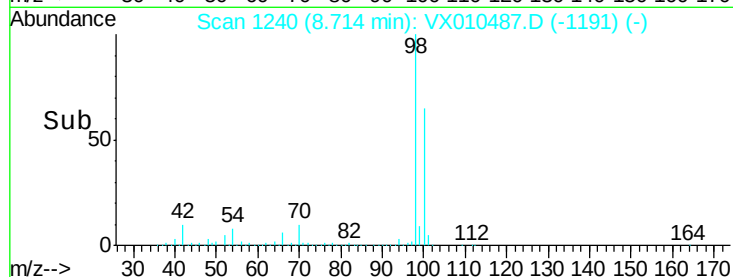
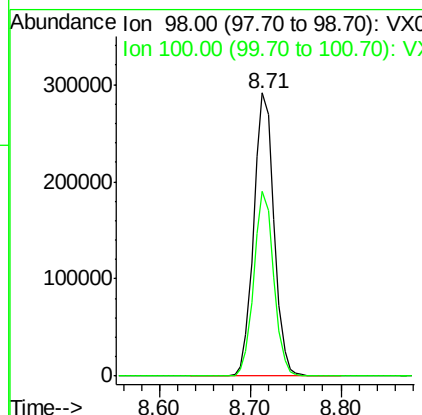
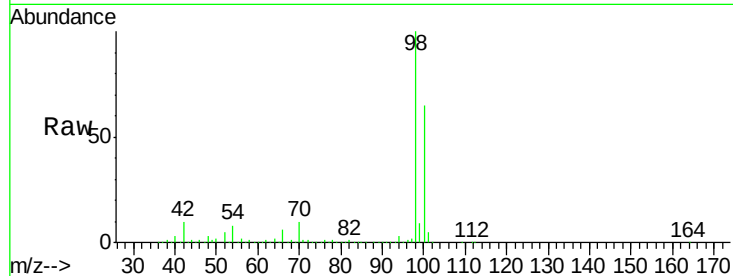
#50  
Toluene-d8  
Concen: 50.098 ug/l  
RT: 8.71 min Scan# 1240  
Delta R.T. 0.00 min  
Lab File: VX010487.D  
Acq: 27 Jun 2019 14:32

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MSVOA\_X  
ClientSampleId :  
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Tot Ion: 98 Resp: 451301  
Ion Ratio Lower Upper  
98 100  
100 64.3 51.6 77.4

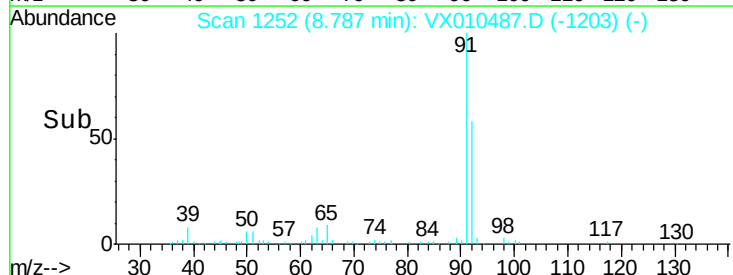
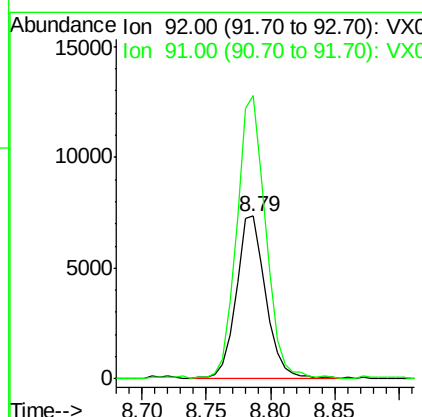
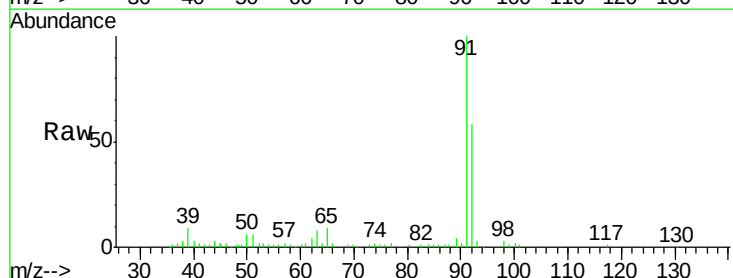
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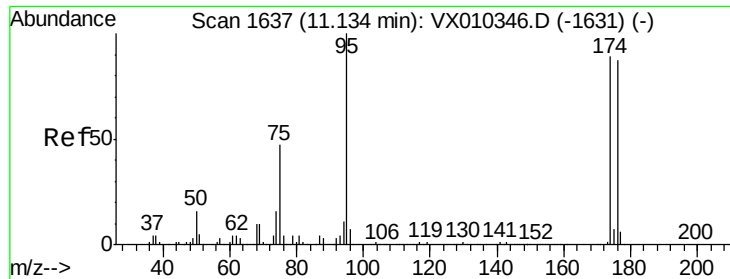
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#52  
Toluene  
Concen: 1.879 ug/l  
RT: 8.79 min Scan# 1252  
Delta R.T. 0.00 min  
Lab File: VX010487.D  
Acq: 27 Jun 2019 14:32

Tgt Ion: 92 Resp: 11790  
Ion Ratio Lower Upper  
92 100  
91 170.1 139.8 209.6





#62

4-Bromofluorobenzene

Concen: 48.908 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010487.D

Acq: 27 Jun 2019 14:32

Instrument :

MSVOA\_X

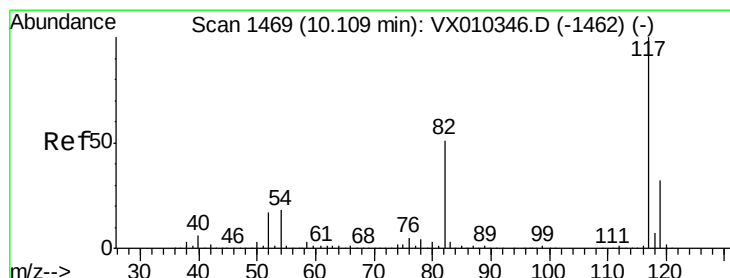
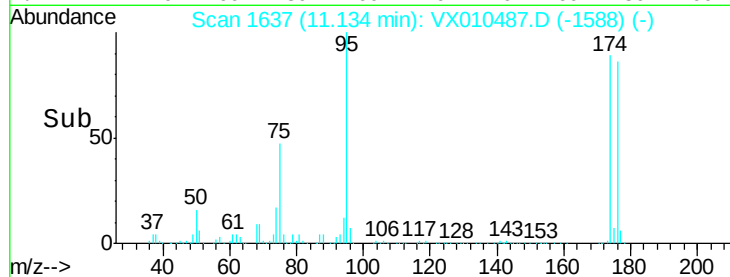
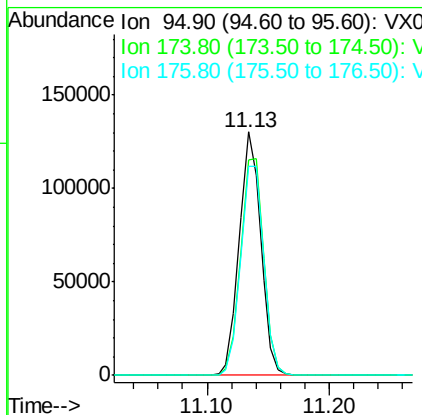
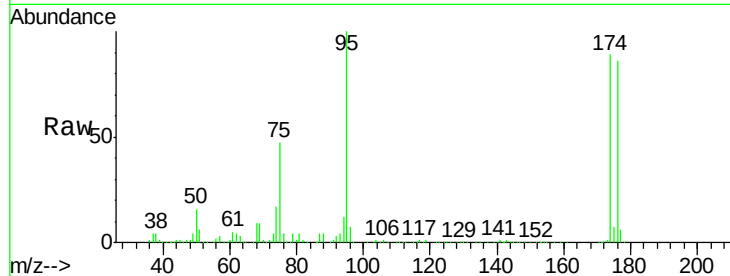
ClientSampleId :

FL-0568

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 95    | Resp: | 159062 |
| Ion Ratio | Lower | Upper |        |
| 95        | 100   |       |        |
| 174       | 94.9  | 0.0   | 187.6  |
| 176       | 92.2  | 0.0   | 184.0  |

Manual Integrations  
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6/28/2019 10:37:41 AM



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

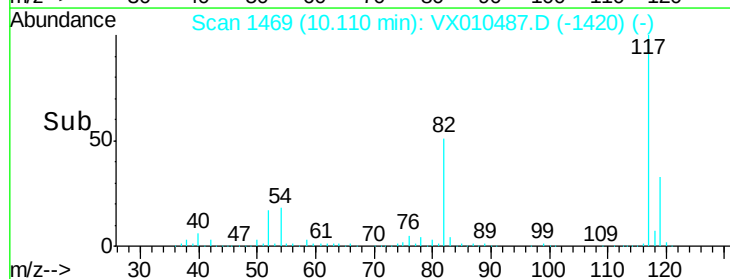
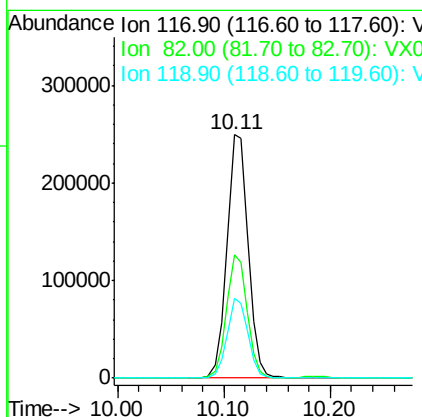
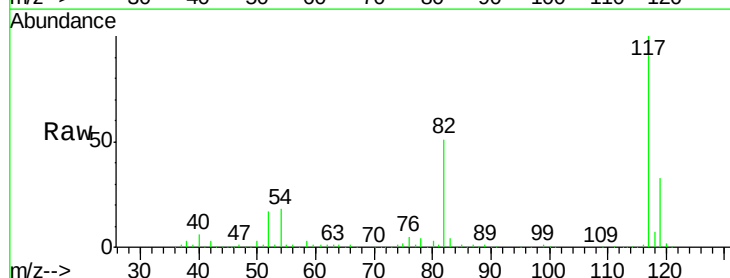
RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

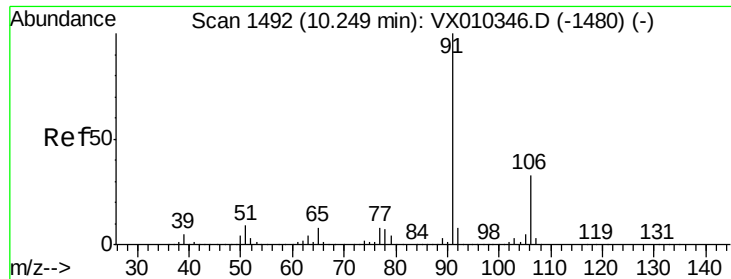
Lab File: VX010487.D

Acq: 27 Jun 2019 14:32

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 117   | Resp: | 348977 |
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 82        | 50.9  | 41.2  | 61.8   |
| 119       | 32.9  | 25.5  | 38.3   |







#67

Ethyl Benzene

Concen: 155.055 ug/l

RT: 10.25 min Scan# 1492

Delta R.T. 0.00 min

Lab File: VX010487.D

Acq: 27 Jun 2019 14:32

Instrument :

MSVOA\_X

ClientSampleId :

FL-0568

Tot Ion: 91 Resp: 1854597

Ion Ratio Lower Upper

91 100

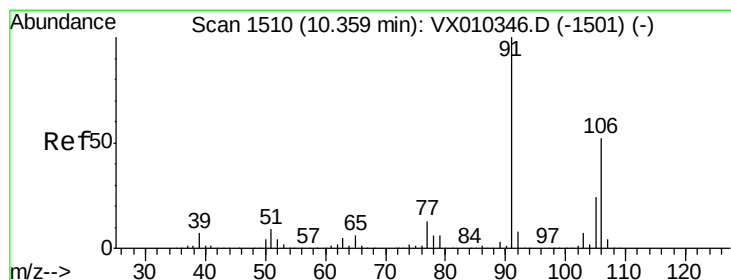
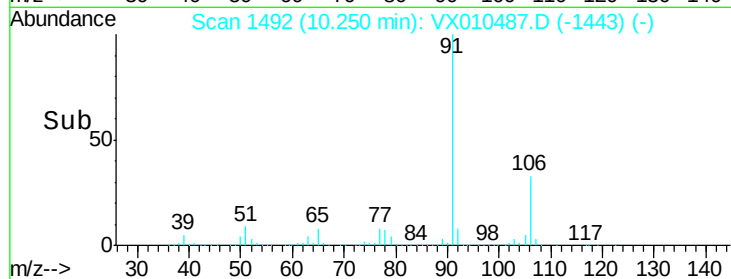
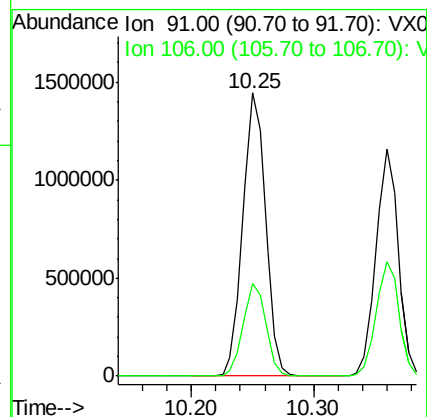
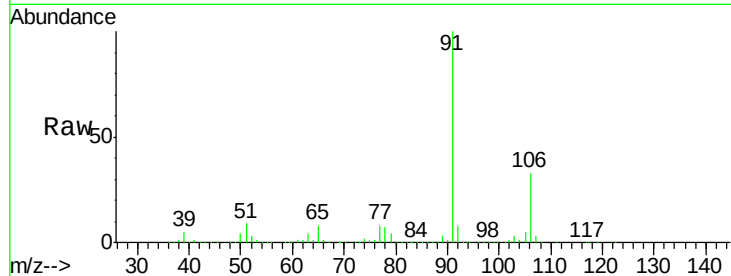
106 32.6 26.2 39.2

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#68

m/p-Xylenes

Concen: 163.851 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. 0.00 min

Lab File: VX010487.D

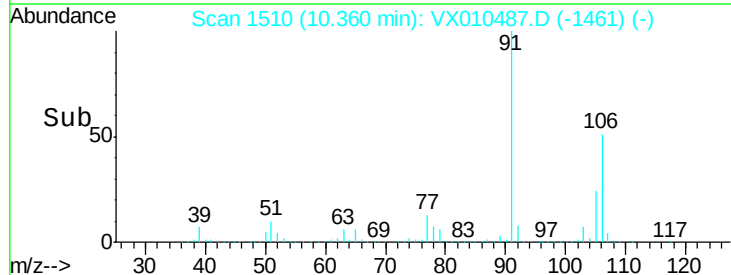
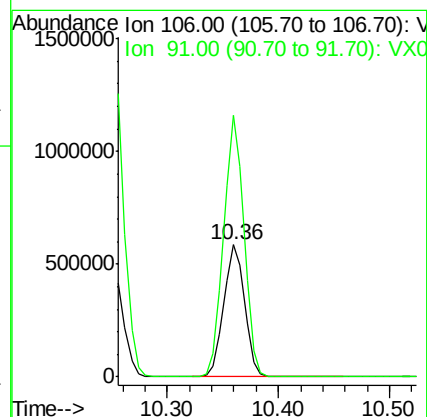
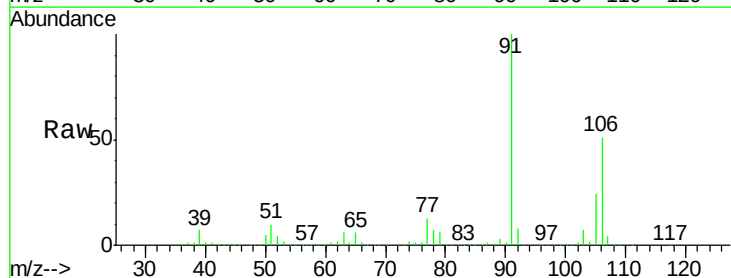
Acq: 27 Jun 2019 14:32

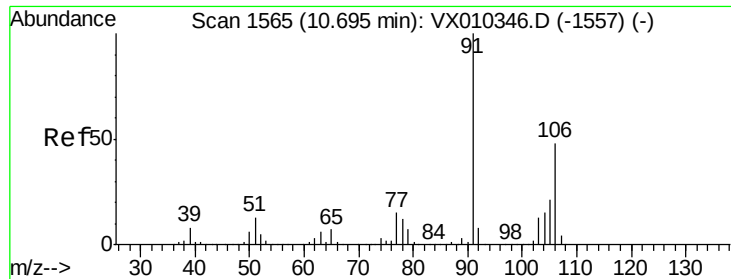
Tgt Ion: 106 Resp: 759372

Ion Ratio Lower Upper

106 100

91 193.9 155.3 232.9





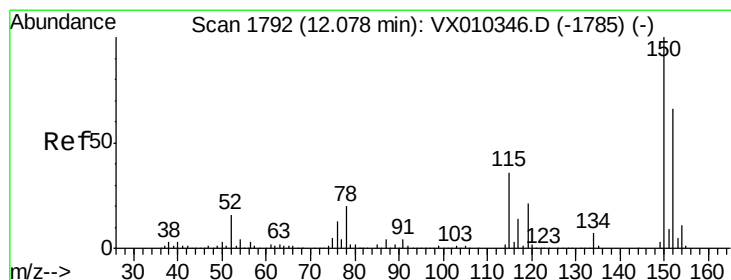
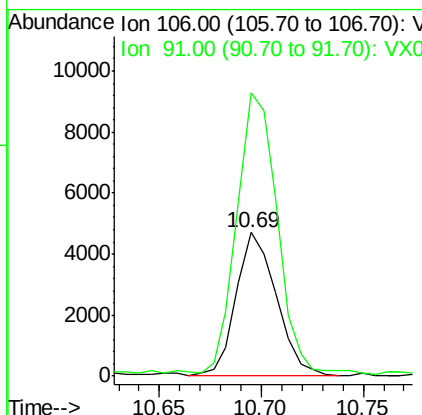
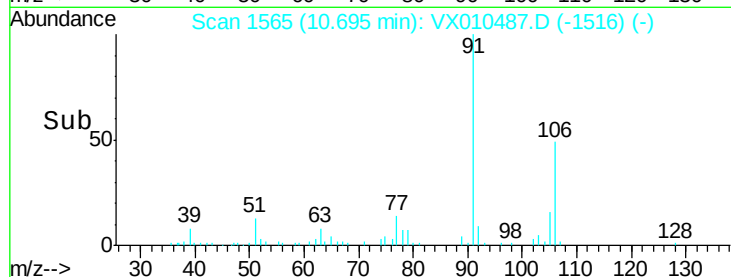
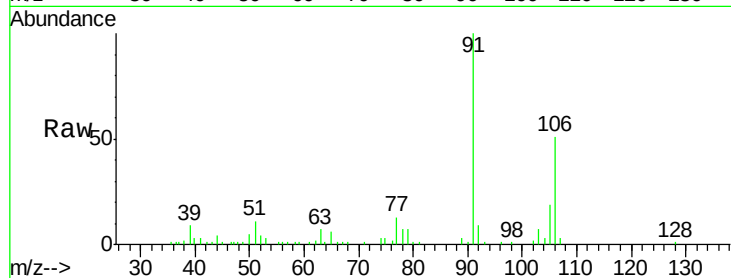
#69  
o-Xylene  
Concen: 1.423 ug/l  
RT: 10.69 min Scan# 1565  
Delta R.T. 0.00 min  
Lab File: VX010487.D  
Acq: 27 Jun 2019 14:32

Instrument :  
MSVOA\_X  
ClientSampled :  
FL-0568

Tot Ion:106 Resp: 6485  
Ion Ratio Lower Upper  
106 100  
91 195.9 102.7 308.1

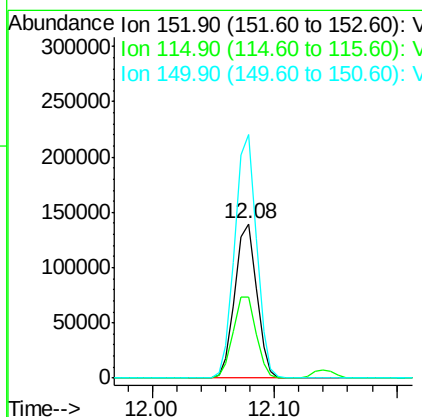
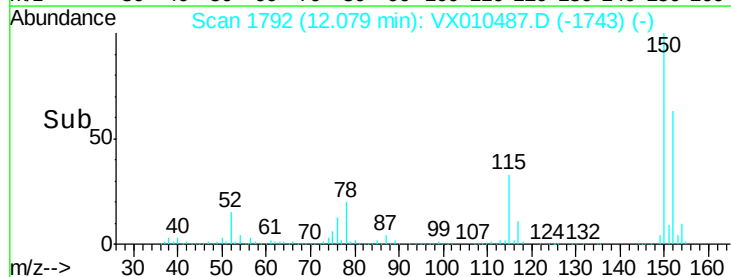
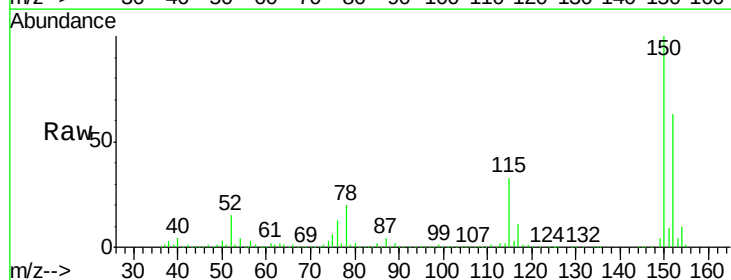
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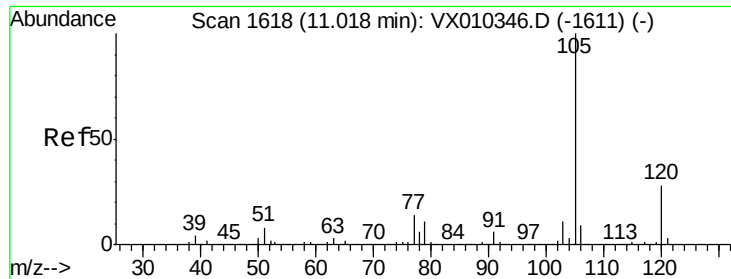
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#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. 0.00 min  
Lab File: VX010487.D  
Acq: 27 Jun 2019 14:32

Tgt Ion:152 Resp: 171707  
Ion Ratio Lower Upper  
152 100  
115 55.1 38.6 115.7  
150 158.0 0.0 347.4





#73

Isopropylbenzene

Concen: 18.303 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. 0.00 min

Lab File: VX010487.D

Acq: 27 Jun 2019 14:32

Instrument :

MSVOA\_X

ClientSampleId :

FL-0568

Tot Ion: 105 Resp: 213043

Ion Ratio Lower Upper

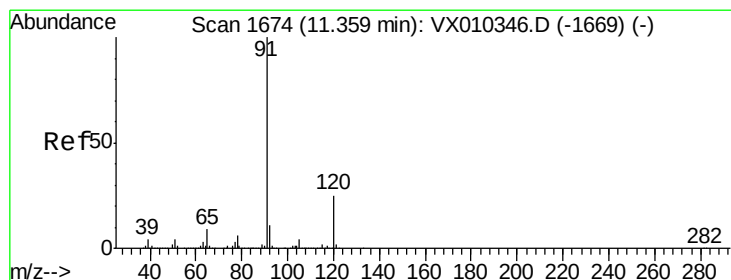
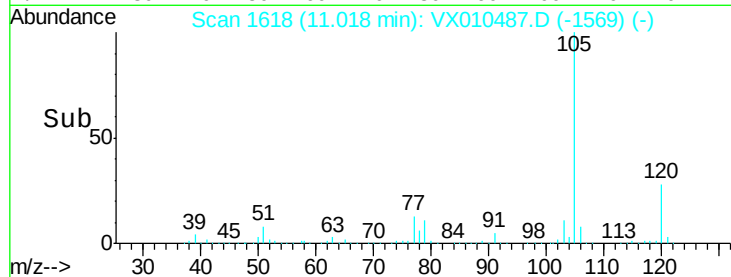
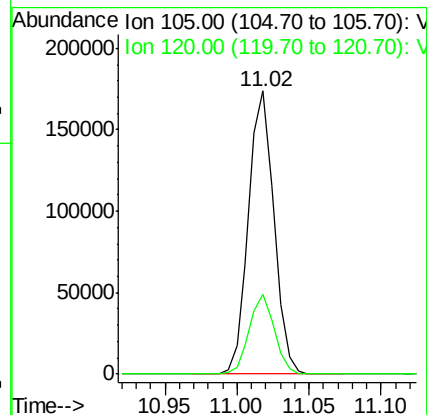
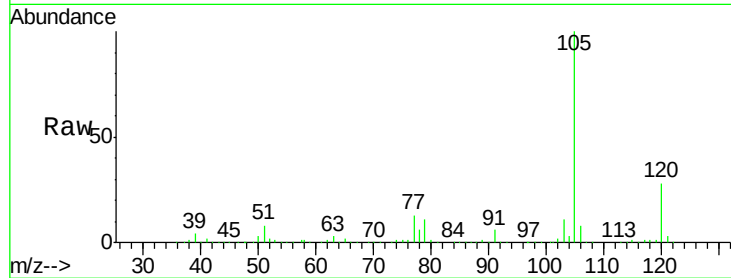
105 100

120 27.7 14.1 42.4

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#78

n-propylbenzene

Concen: 22.158 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. 0.00 min

Lab File: VX010487.D

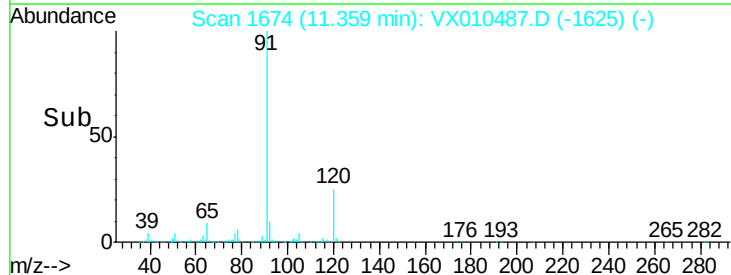
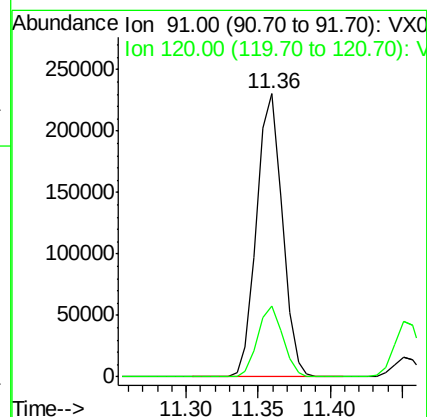
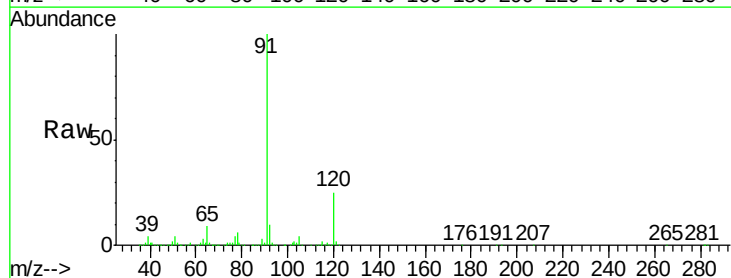
Acq: 27 Jun 2019 14:32

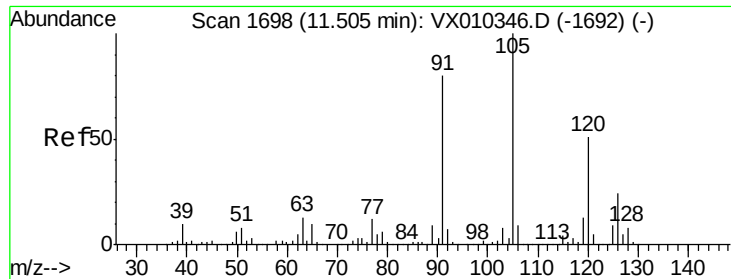
Tgt Ion: 91 Resp: 283459

Ion Ratio Lower Upper

91 100

120 24.5 12.4 37.4





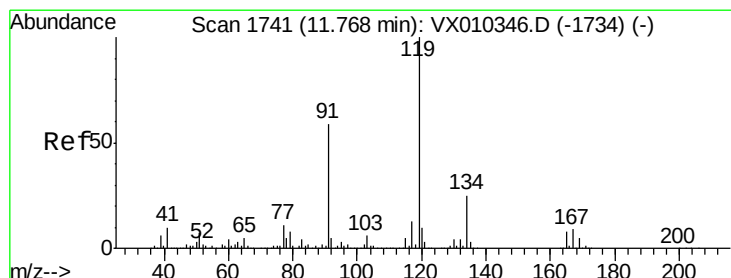
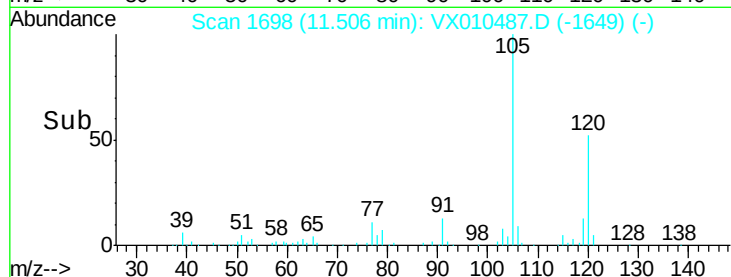
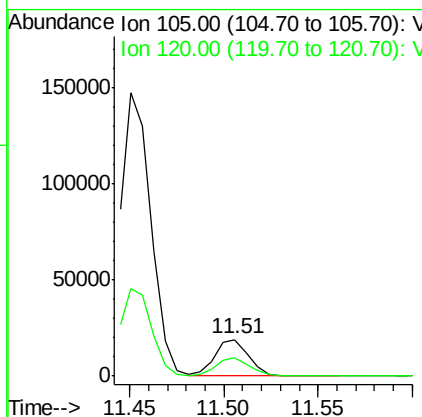
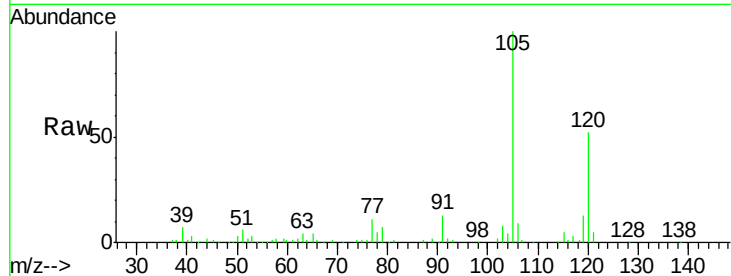
#80  
 1,3,5-Trimethylbenzene  
 Concen: 2.514 ug/l  
 RT: 11.51 min Scan# 1698  
 Delta R.T. 0.00 min  
 Lab File: VX010487.D  
 Acq: 27 Jun 2019 14:32

Instrument :  
 MSVOA\_X  
 ClientSampled :  
 FL-0568

Tot Ion:105 Resp: 24119  
 Ion Ratio Lower Upper  
 105 100  
 120 48.2 25.2 75.6

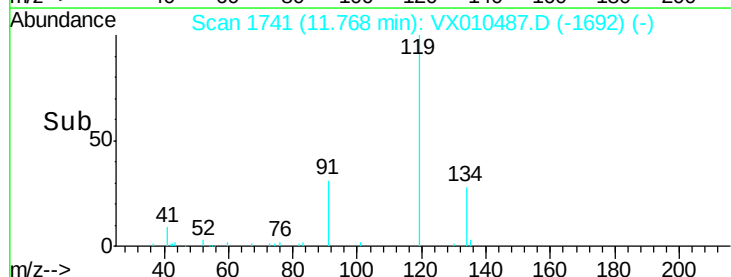
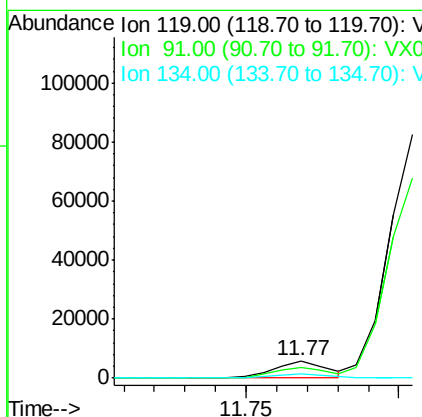
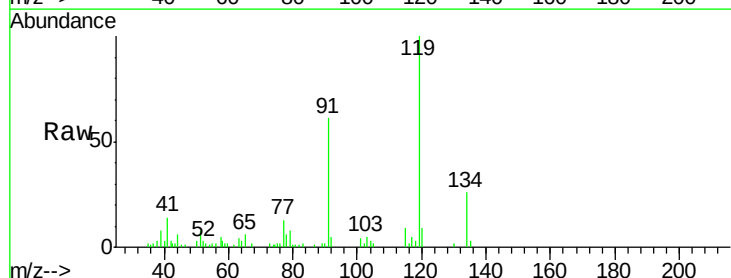
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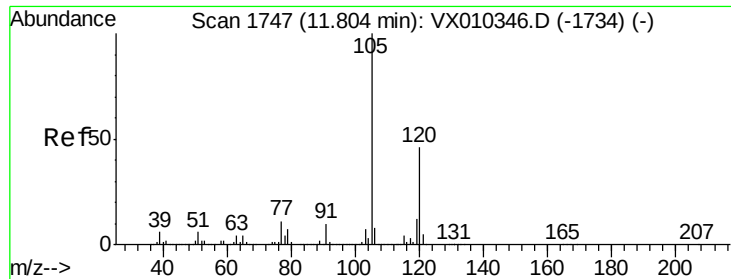
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#83  
 tert-Butylbenzene  
 Concen: 0.719 ug/l  
 RT: 11.77 min Scan# 1741  
 Delta R.T. 0.00 min  
 Lab File: VX010487.D  
 Acq: 27 Jun 2019 14:32

Tgt Ion:119 Resp: 6924  
 Ion Ratio Lower Upper  
 119 100  
 91 64.5 27.6 82.7  
 134 26.4 11.8 35.4





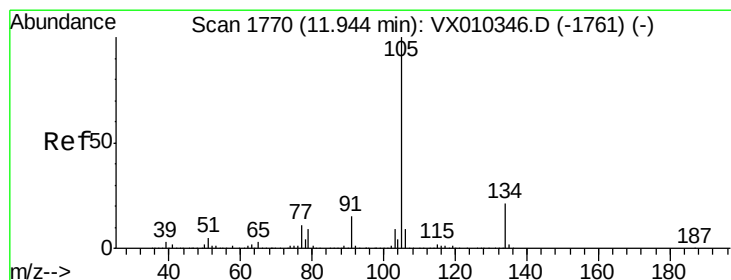
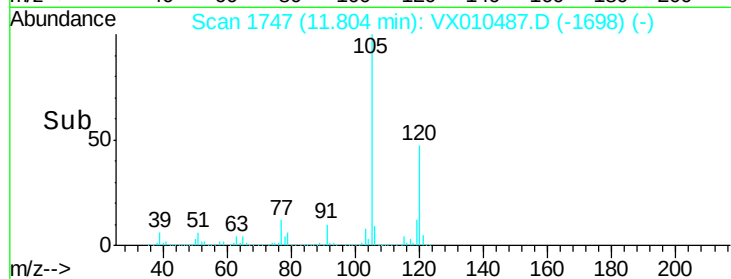
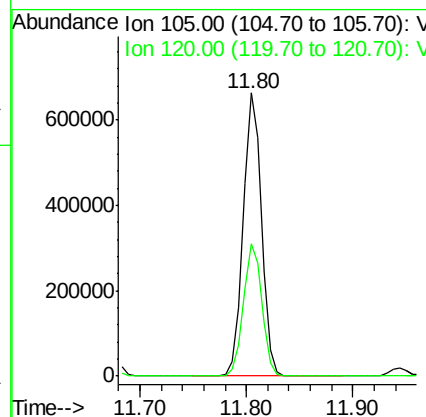
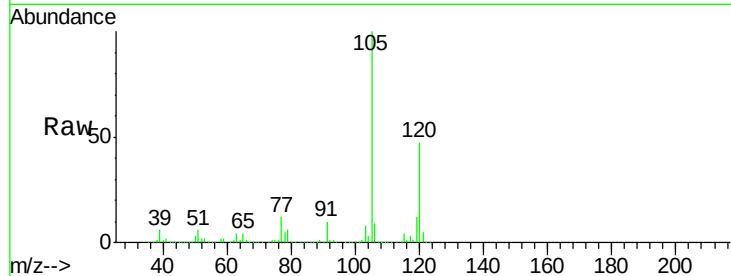
#84  
 1,2,4-Trimethylbenzene  
 Concen: 83.010 ug/l  
 RT: 11.80 min Scan# 1747  
 Delta R.T. 0.00 min  
 Lab File: VX010487.D  
 Acq: 27 Jun 2019 14:32

Instrument :  
 MSVOA\_X  
 ClientSampled :  
 FL-0568

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 105     | 100   | 800250 |       |       |
| 120     | 47.2  | 23.1   | 69.2  |       |

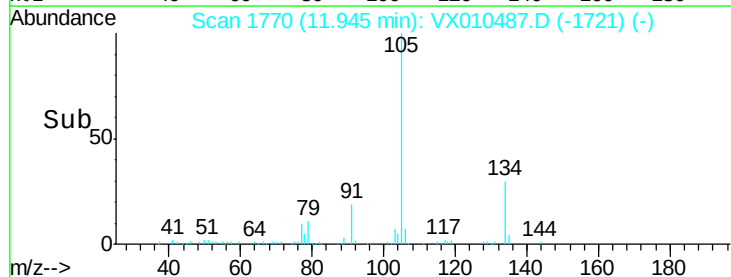
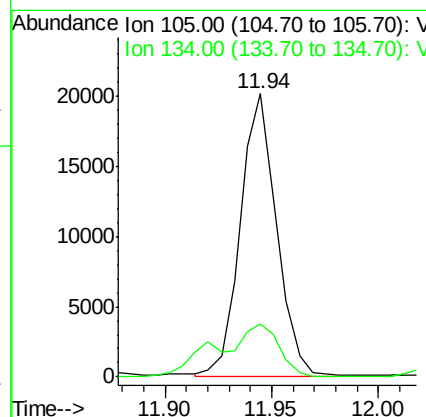
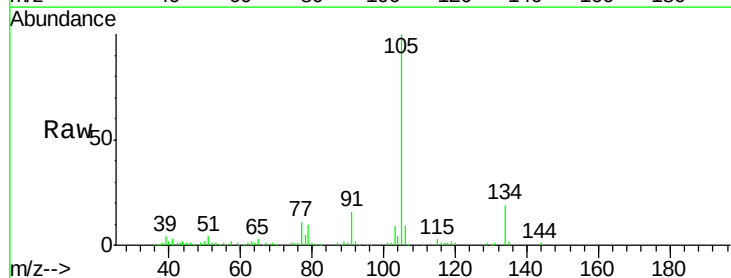
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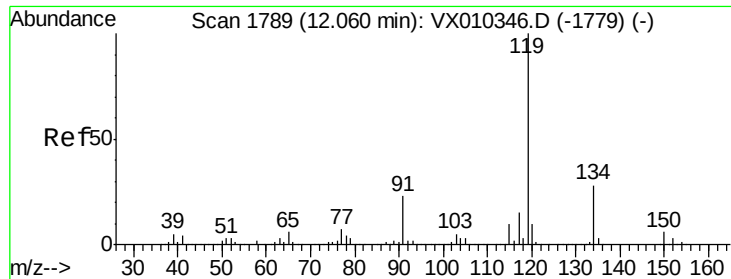
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#85  
 sec-Butylbenzene  
 Concen: 2.129 ug/l m  
 RT: 11.94 min Scan# 1770  
 Delta R.T. 0.00 min  
 Lab File: VX010487.D  
 Acq: 27 Jun 2019 14:32

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 105     | 100   | 24080 |       |       |
| 134     | 0.0   | 10.7  | 31.9  |       |





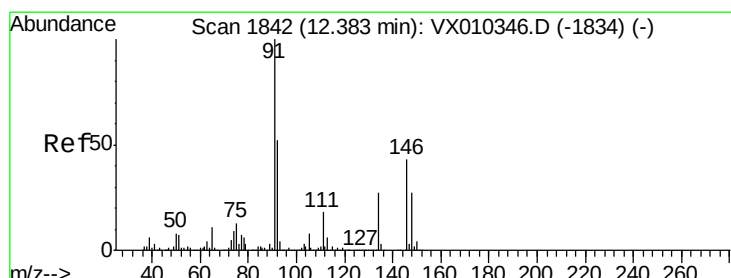
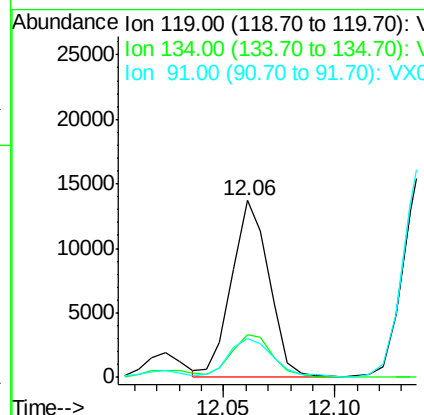
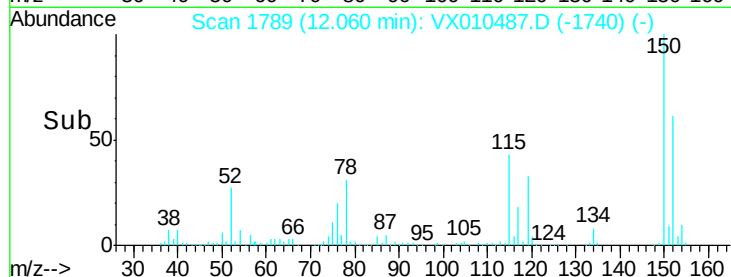
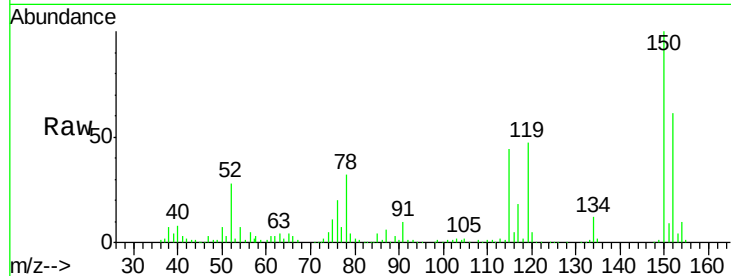
#86  
 p-Isopropyltoluene  
 Concen: 1.520 ug/l  
 RT: 12.06 min Scan# 1789  
 Delta R.T. 0.00 min  
 Lab File: VX010487.D  
 Acq: 27 Jun 2019 14:32

Instrument :  
 MSVOA\_X  
 ClientSampled :  
 FL-0568

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 119     | 100   | 15899 |       |       |
| 134     | 27.0  |       | 13.7  | 41.1  |
| 91      | 25.5  |       | 11.3  | 33.8  |

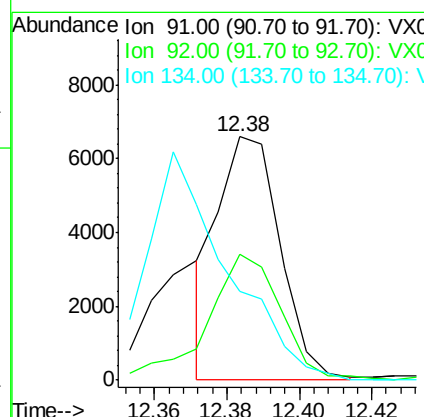
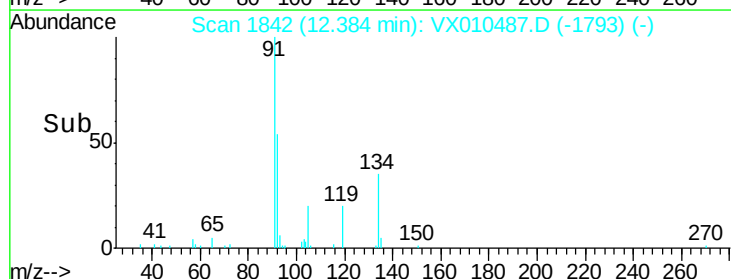
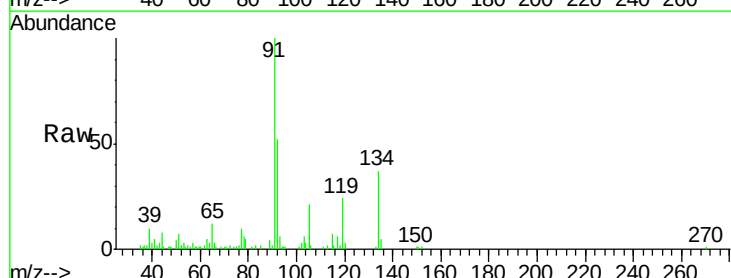
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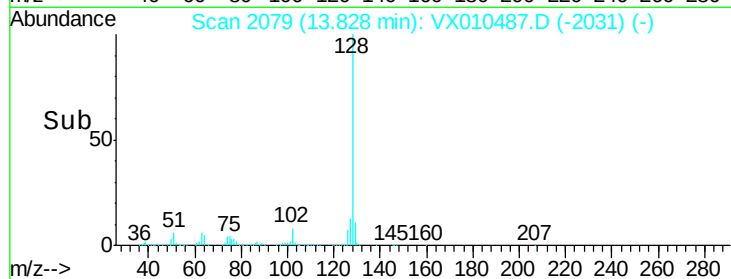
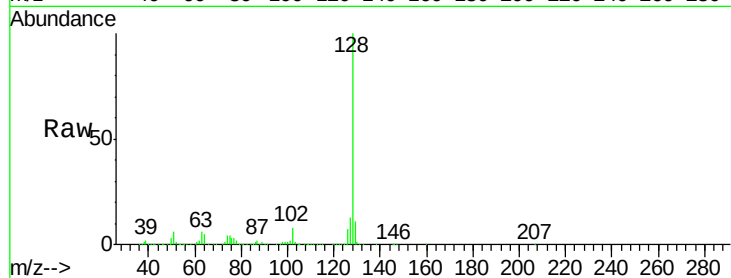
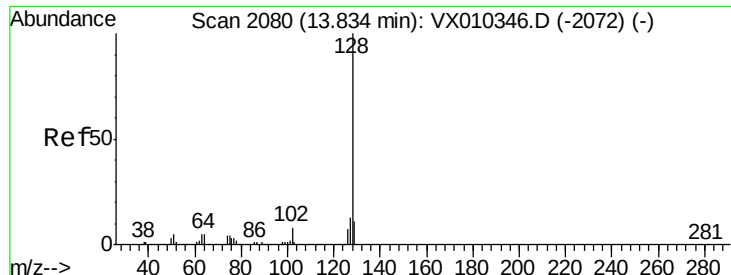
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#89  
 n-Butylbenzene  
 Concen: 0.891 ug/l m  
 RT: 12.38 min Scan# 1842  
 Delta R.T. 0.00 min  
 Lab File: VX010487.D  
 Acq: 27 Jun 2019 14:32

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 91      | 100   | 7920 |       |       |
| 92      | 61.7  |      | 26.2  | 78.5  |
| 134     | 121.4 |      | 14.1  | 42.4# |





#95  
Naphthalene  
Concen: 32.921 ug/l  
RT: 13.83 min Scan# 2079  
Delta R.T. -0.01 min  
Lab File: VX010487.D  
Acq: 27 Jun 2019 14:32

Instrument :  
MSVOA\_X  
ClientSampleId :  
FL-0568

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 128     | 100   |            |       |
| 127     | 12.9  | 10.2       | 15.4  |
| 129     | 11.2  | 8.9        | 13.3  |

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