

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071219\  
 Data File : VX010840.D  
 Acq On : 12 Jul 2019 16:49  
 Operator : JC/SP  
 Sample : K3786-05  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 FL-0589

Manual Integrations  
 APPROVED

MMDadoda  
 7/15/2019 11:00:43 AM

Quant Time: Jul 13 04:12:50 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  | 212925   | 50.00   | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 6.86  | 114  | 337020   | 50.00   | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 10.11 | 117  | 310357   | 50.00   | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 12.08 | 152  | 154674   | 50.00   | ug/l    | 0.00     |
| System Monitoring Compounds |       |      |          |         |         |          |
| 33) 1,2-Dichloroethane-d4   | 6.06  | 65   | 108252   | 54.22   | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =       | 108.44% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 101094   | 49.03   | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =       | 98.06%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 407573   | 51.66   | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =       | 103.32% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 142429   | 50.01   | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =       | 100.02% |          |
| Target Compounds            |       |      |          |         |         |          |
|                             |       |      |          |         | Qvalue  |          |
| 16) Acetone                 | 2.45  | 43   | 2701     | 2.700   | ug/l    | 93       |
| 31) Cyclohexane             | 5.58  | 56   | 202511   | 70.227  | ug/l    | 98       |
| 39) Methylcyclohexane       | 7.46  | 83   | 529335   | 150.364 | ug/l    | 96       |
| 67) Ethyl Benzene           | 10.25 | 91   | 794400   | 74.681  | ug/l    | 100      |
| 68) m/p-Xylenes             | 10.36 | 106  | 394639   | 95.748  | ug/l    | 98       |
| 69) o-Xylene                | 10.69 | 106  | 3204     | 0.790   | ug/l    | 89       |
| 73) Isopropylbenzene        | 11.02 | 105  | 409681   | 39.073  | ug/l    | 98       |
| 78) n-propylbenzene         | 11.36 | 91   | 558197   | 48.440  | ug/l    | 99       |
| 80) 1,3,5-Trimethylbenzene  | 11.51 | 105  | 32332m   | 3.741   | ug/l    |          |
| 83) tert-Butylbenzene       | 11.77 | 119  | 5656m    | 0.652   | ug/l    |          |
| 84) 1,2,4-Trimethylbenzene  | 11.80 | 105  | 1928935  | 222.122 | ug/l    | 99       |
| 85) sec-Butylbenzene        | 11.94 | 105  | 80213    | 7.875   | ug/l    | 79       |
| 86) p-Isopropyltoluene      | 12.06 | 119  | 73220    | 7.771   | ug/l    | 99       |
| 89) n-Butylbenzene          | 12.38 | 91   | 33209m   | 4.148   | ug/l    |          |
| 95) Naphthalene             | 13.83 | 128  | 323230   | 29.861  | ug/l    | 98       |

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

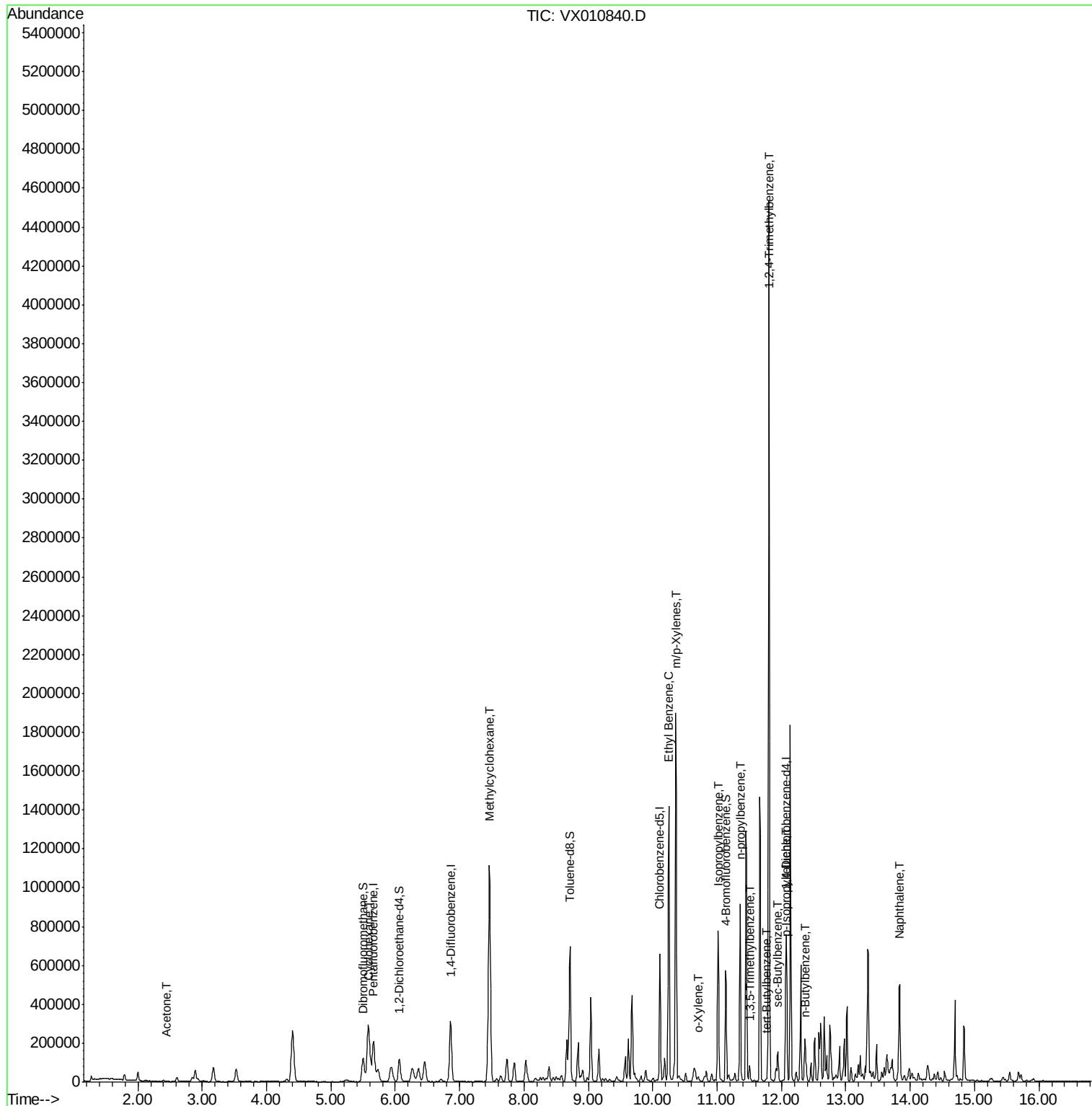
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX071219\  
Data File : VX010840.D  
Acq On : 12 Jul 2019 16:49  
Operator : JC/SP  
Sample : K3786-05  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 19 Sample Multiplier: 1

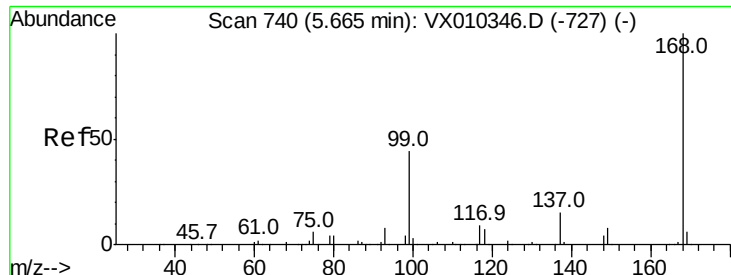
Instrument :  
MSVOA\_X  
ClientSampleId :  
FL-0589

Manual Integrations  
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7/15/2019 11:00:43 AM

Quant Time: Jul 13 04:12:50 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: VX010840.D

Acq: 12 Jul 2019 16:49

Instrument :

MSVOA\_X

ClientSampled :

FL-0589

Tot Ion:168 Resp: 212925

Ion Ratio Lower Upper

168 100

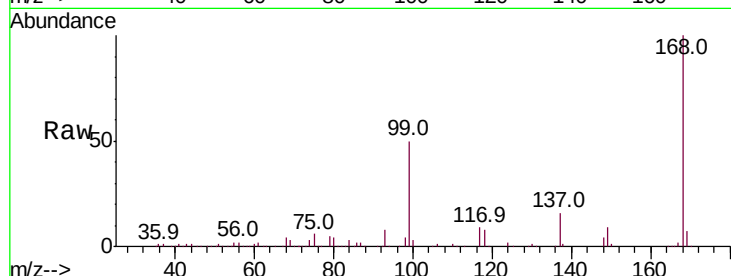
99 50.2 35.5 53.3

Manual Integrations

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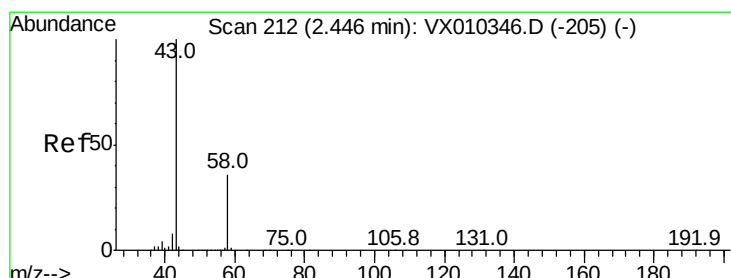
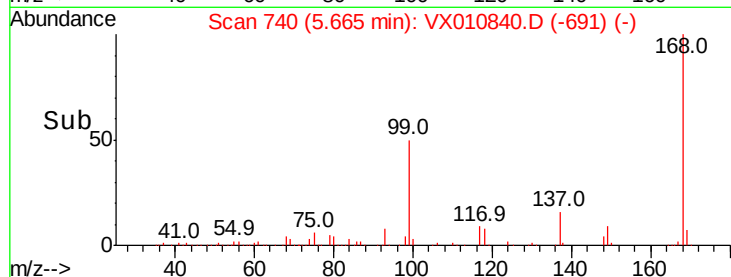
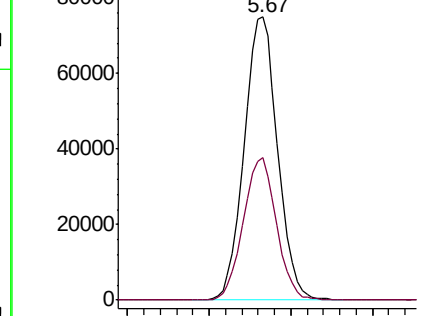
MMDadoda

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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: 2.700 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX010840.D

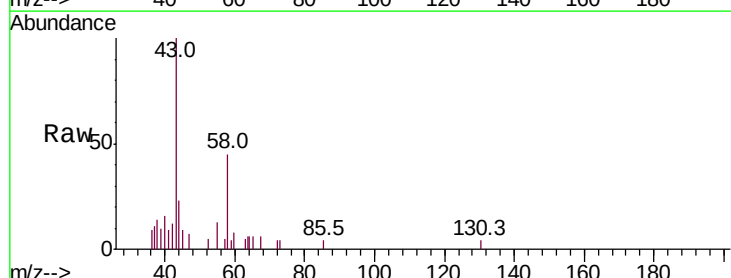
Acq: 12 Jul 2019 16:49

Tgt Ion: 43 Resp: 2701

Ion Ratio Lower Upper

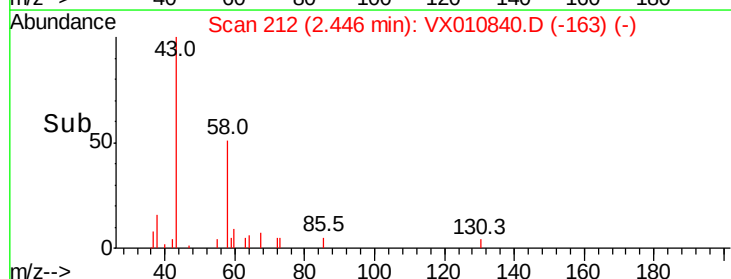
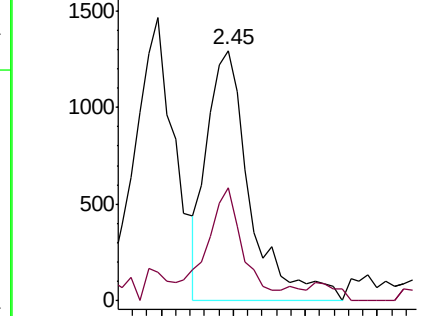
43 100

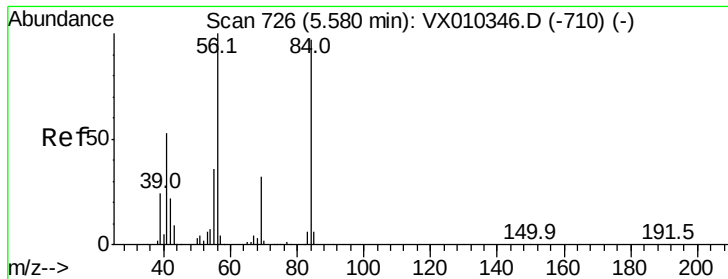
58 40.5 28.9 43.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





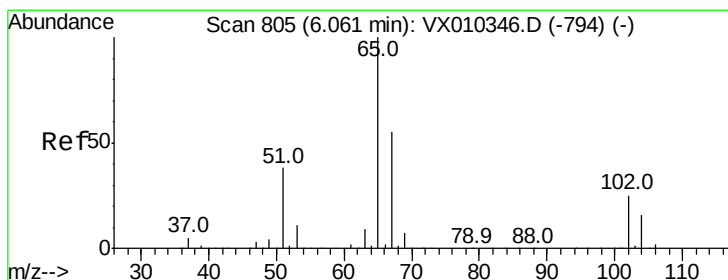
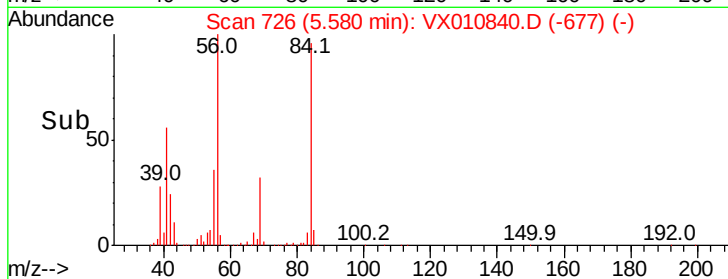
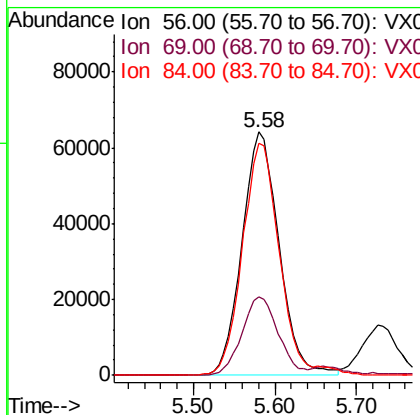
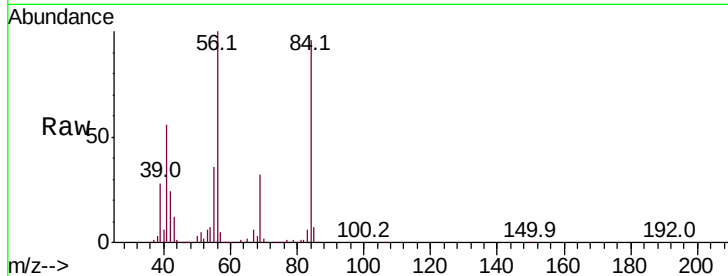
#31  
Cyclohexane  
Concen: 70.227 ug/l  
RT: 5.58 min Scan# 726  
Delta R.T. 0.00 min  
Lab File: VX010840.D  
Acq: 12 Jul 2019 16:49

Instrument :  
MSVOA\_X  
ClientSampleId :  
FL-0589

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 56      | 100   |       |       |
| 69      | 31.9  | 25.9  | 38.9  |
| 84      | 95.6  | 78.0  | 117.0 |

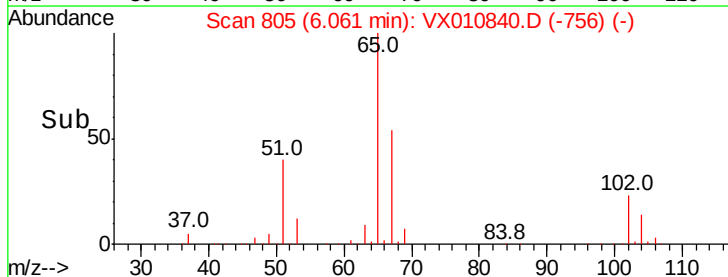
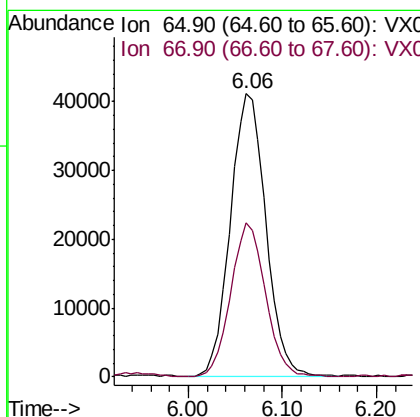
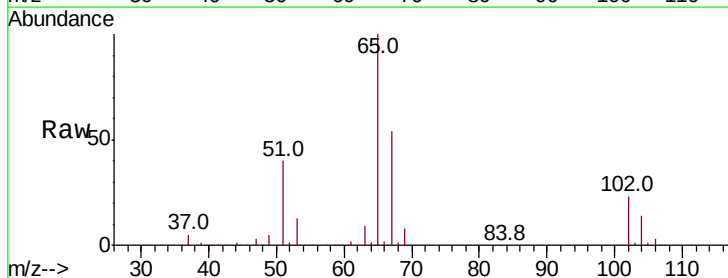
Manual Integrations  
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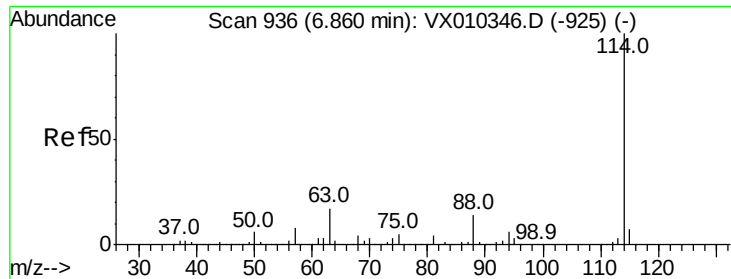
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#33  
1,2-Dichloroethane-d4  
Concen: 54.224 ug/l  
RT: 6.06 min Scan# 805  
Delta R.T. 0.00 min  
Lab File: VX010840.D  
Acq: 12 Jul 2019 16:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 65      | 100   |       |       |
| 67      | 53.4  | 0.0   | 110.2 |





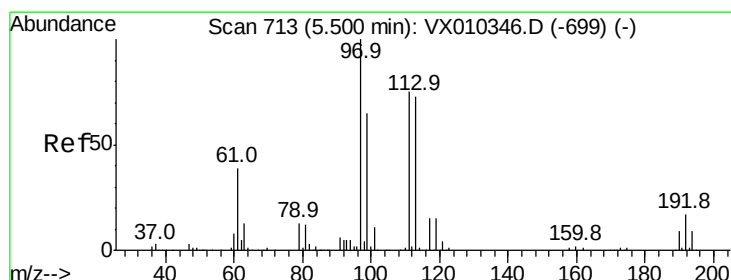
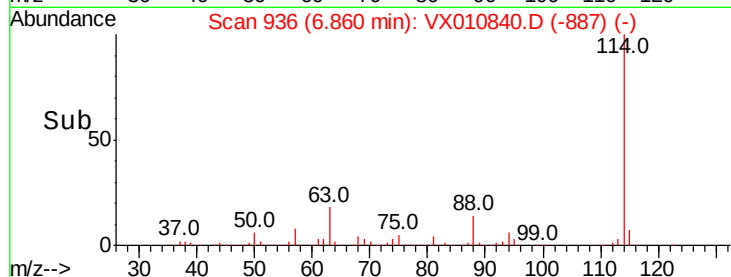
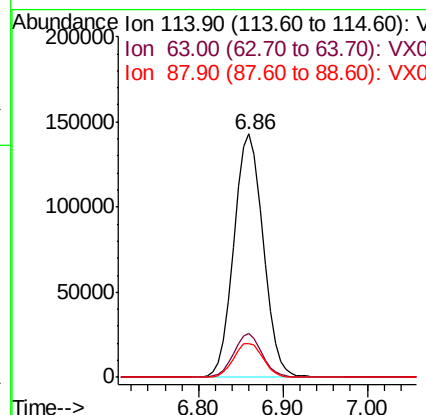
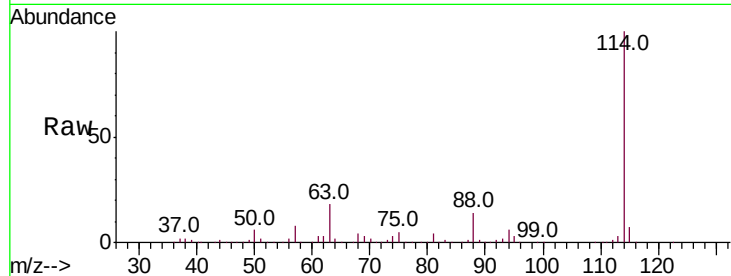
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.86 min Scan# 936  
 Delta R.T. 0.00 min  
 Lab File: VX010840.D  
 Acq: 12 Jul 2019 16:49

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 FL-0589

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 114     | 100   | 337020 |       |       |
| 63      | 17.8  |        | 0.0   | 33.8  |
| 88      | 13.9  |        | 0.0   | 27.6  |

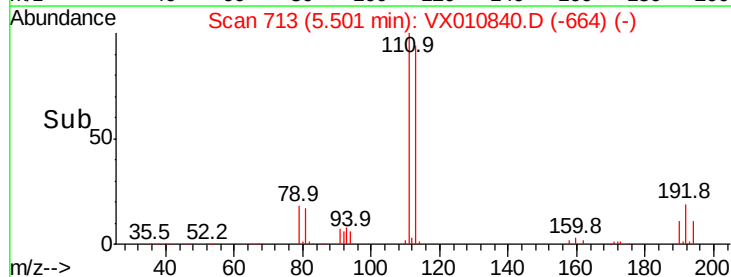
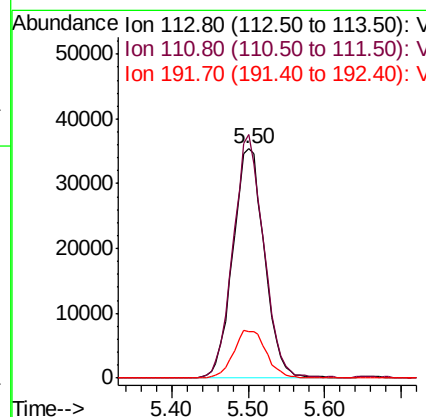
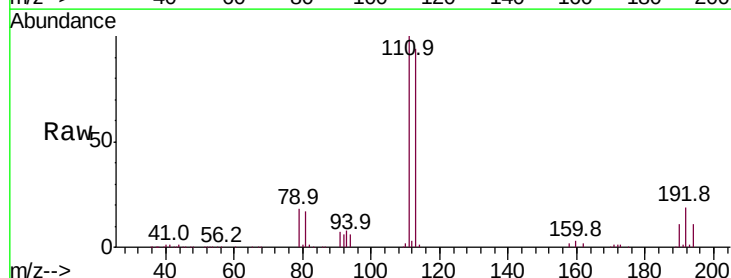
Manual Integrations  
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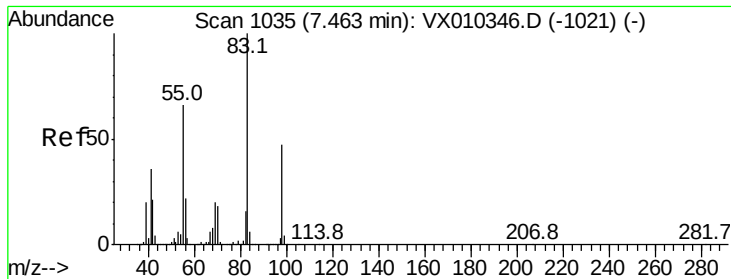
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 7/15/2019 11:00:43 AM



#35  
 Dibromofluoromethane  
 Concen: 49.027 ug/l  
 RT: 5.50 min Scan# 713  
 Delta R.T. 0.00 min  
 Lab File: VX010840.D  
 Acq: 12 Jul 2019 16:49

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 113     | 100   | 101094 |       |       |
| 111     | 102.5 |        | 81.2  | 121.8 |
| 192     | 21.6  |        | 18.6  | 27.8  |





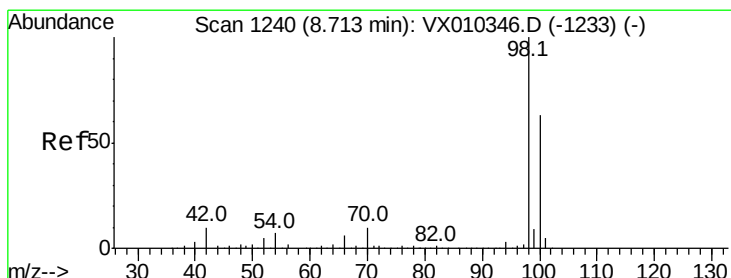
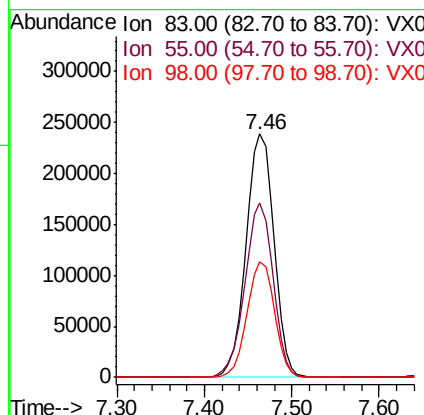
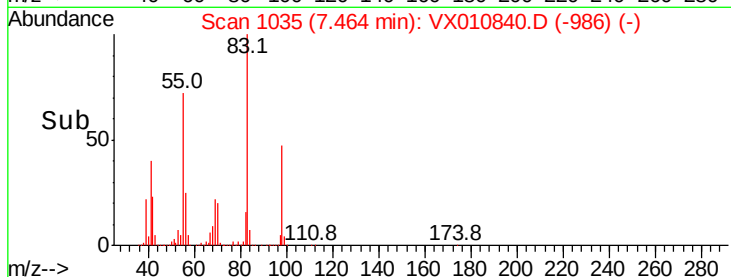
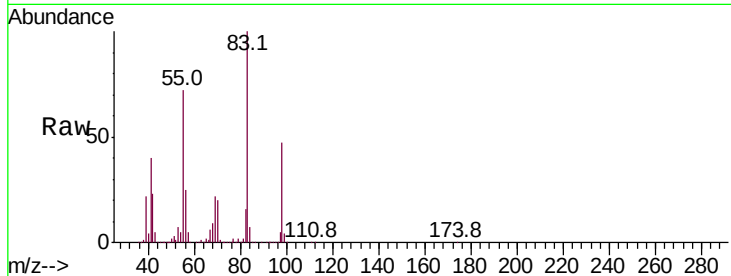
#39  
Methylcyclohexane  
Concen: 150.364 ug/l  
RT: 7.46 min Scan# 1035  
Delta R.T. 0.00 min  
Lab File: VX010840.D  
Acq: 12 Jul 2019 16:49

Instrument :  
MSVOA\_X  
ClientSampleId :  
FL-0589

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 83      | 100   |      |       |       |
| 55      | 71.8  | 53.0 | 79.6  |       |
| 98      | 47.3  | 37.8 | 56.8  |       |

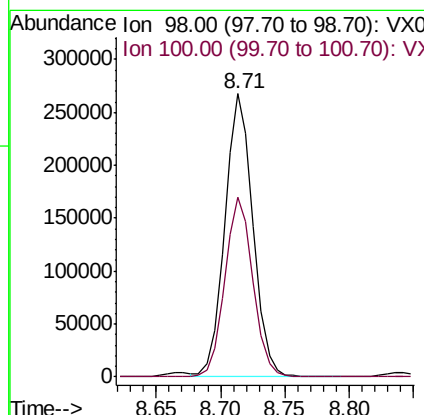
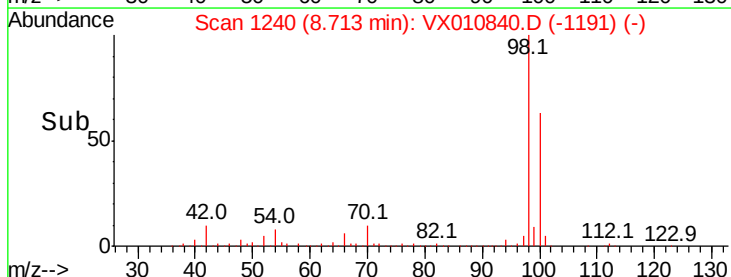
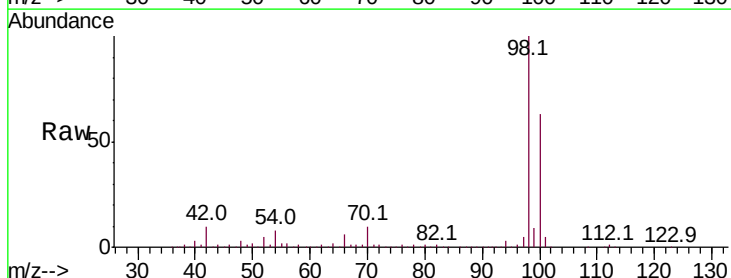
Manual Integrations  
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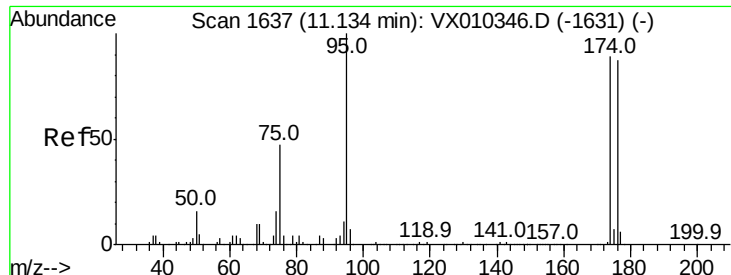
MMDadoda  
7/15/2019 11:00:43 AM



#50  
Toluene-d8  
Concen: 51.664 ug/l  
RT: 8.71 min Scan# 1240  
Delta R.T. 0.00 min  
Lab File: VX010840.D  
Acq: 12 Jul 2019 16:49

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 98      | 100   |      |       |       |
| 100     | 63.5  | 51.6 | 77.4  |       |





#62

4-Bromofluorobenzene

Concen: 50.008 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010840.D

Acq: 12 Jul 2019 16:49

Instrument :

MSVOA\_X

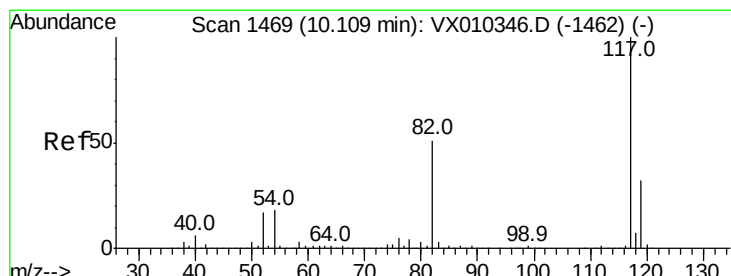
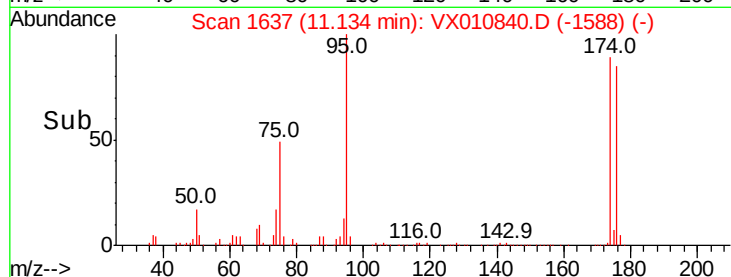
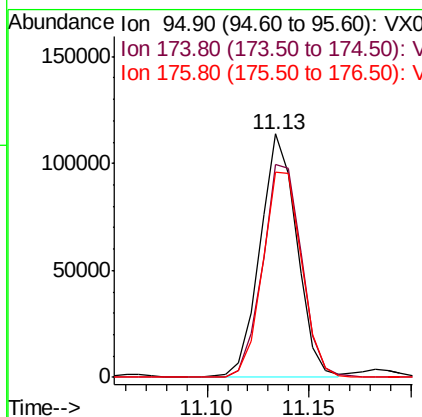
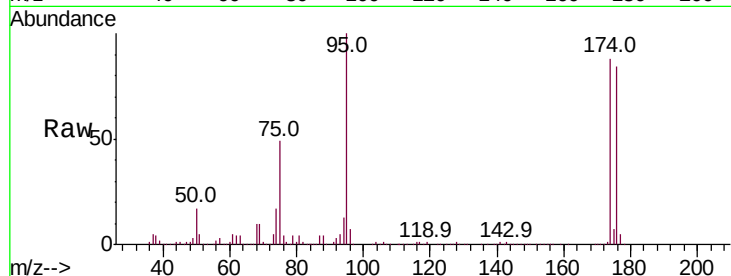
ClientSampleId :

FL-0589

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 95    | Resp: | 142429 |
| Ion Ratio | Lower | Upper |        |
| 95        | 100   |       |        |
| 174       | 93.2  | 0.0   | 187.6  |
| 176       | 90.3  | 0.0   | 184.0  |

Manual Integrations  
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7/15/2019 11:00:43 AM



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

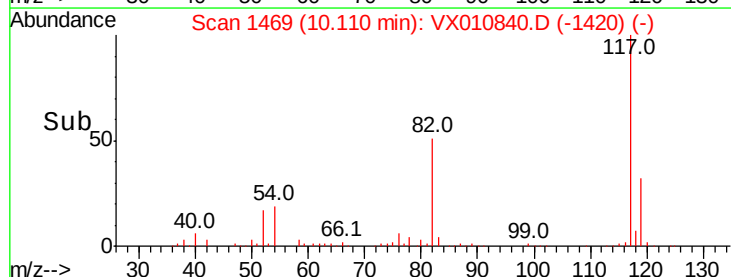
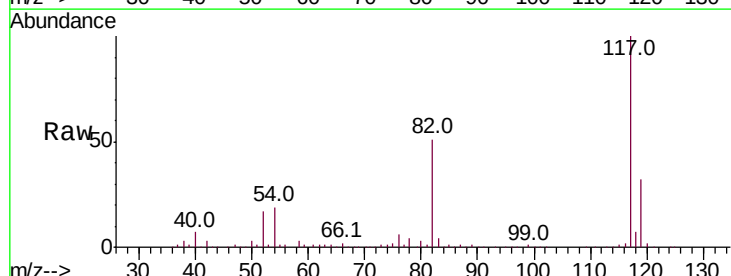
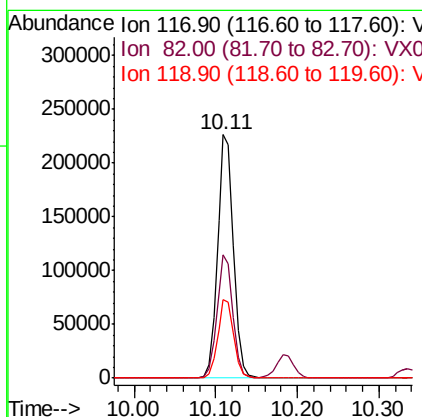
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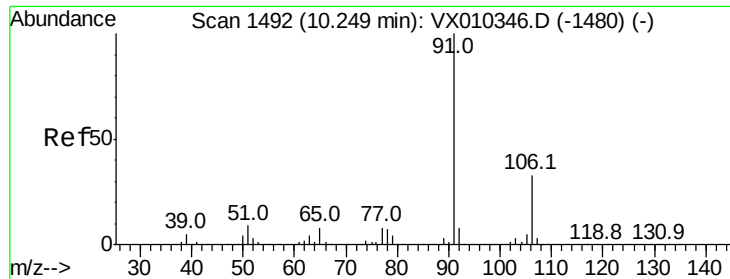
Delta R.T. 0.00 min

Lab File: VX010840.D

Acq: 12 Jul 2019 16:49

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 117   | Resp: | 310357 |
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 82        | 50.5  | 41.2  | 61.8   |
| 119       | 32.2  | 25.5  | 38.3   |





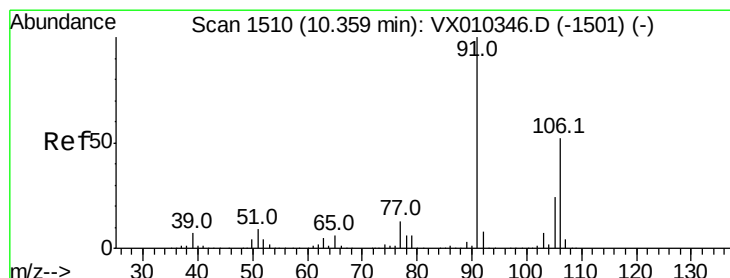
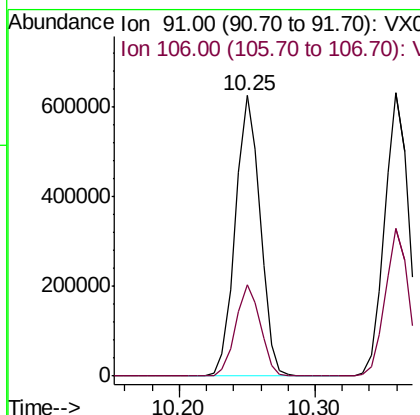
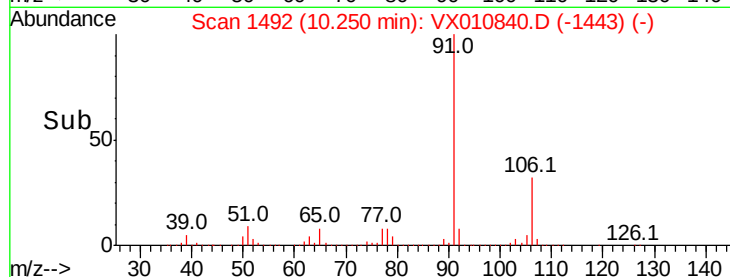
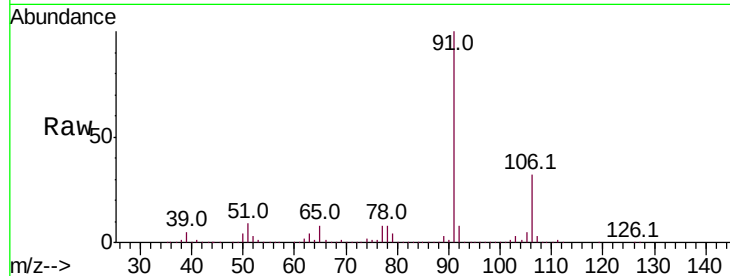
#67  
Ethyl Benzene  
Concen: 74.681 ug/l  
RT: 10.25 min Scan# 1492  
Delta R.T. 0.00 min  
Lab File: VX010840.D  
Acq: 12 Jul 2019 16:49

Instrument :  
MSVOA\_X  
ClientSampleId :  
FL-0589

Tot Ion: 91 Resp: 794400  
Ion Ratio Lower Upper  
91 100  
106 32.5 26.2 39.2

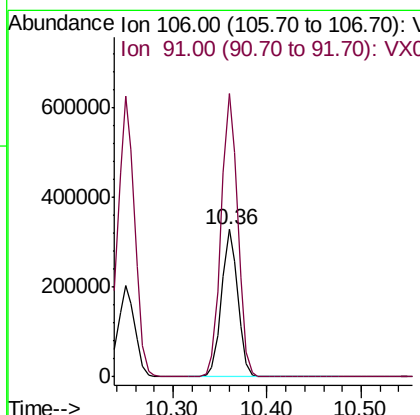
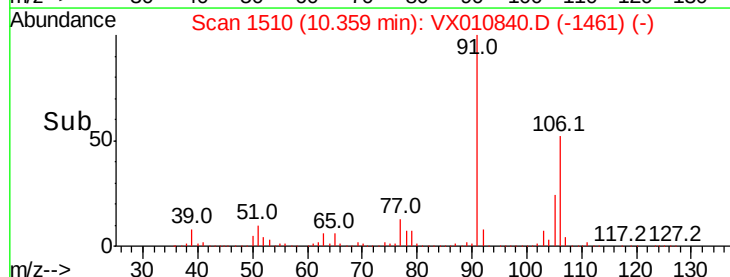
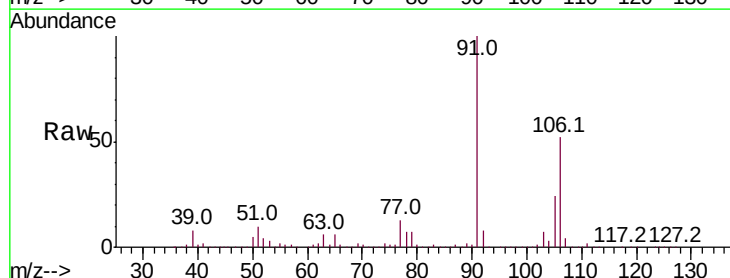
Manual Integrations  
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7/15/2019 11:00:43 AM

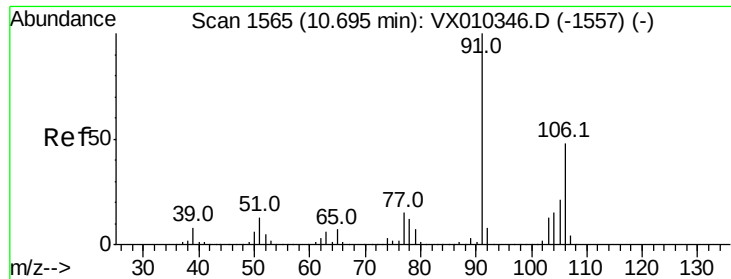


#68  
m/p-Xylenes  
Concen: 95.748 ug/l  
RT: 10.36 min Scan# 1510  
Delta R.T. 0.00 min  
Lab File: VX010840.D  
Acq: 12 Jul 2019 16:49

Tgt Ion: 106 Resp: 394639  
Ion Ratio Lower Upper  
106 100  
91 196.3 155.3 232.9







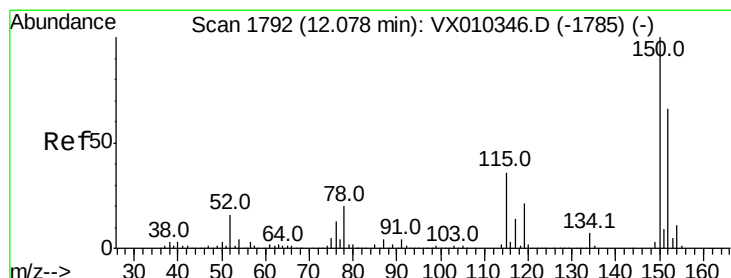
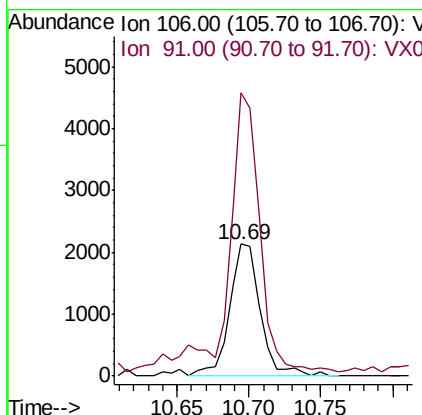
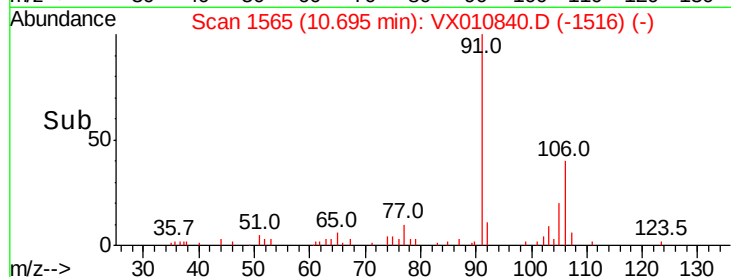
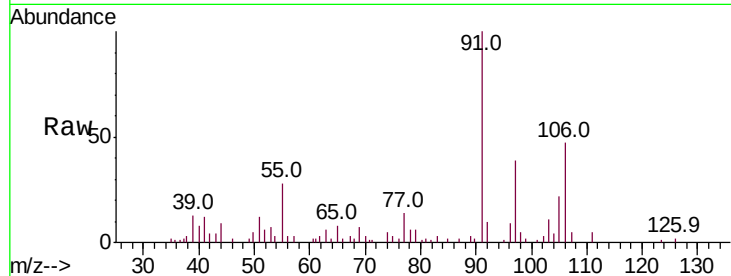
#69  
o-Xylene  
Concen: 0.790 ug/l  
RT: 10.69 min Scan# 1565  
Delta R.T. 0.00 min  
Lab File: VX010840.D  
Acq: 12 Jul 2019 16:49

Instrument :  
MSVOA\_X  
ClientSampled :  
FL-0589

Tot Ion:106 Resp: 3204  
Ion Ratio Lower Upper  
106 100  
91 188.8 102.7 308.1

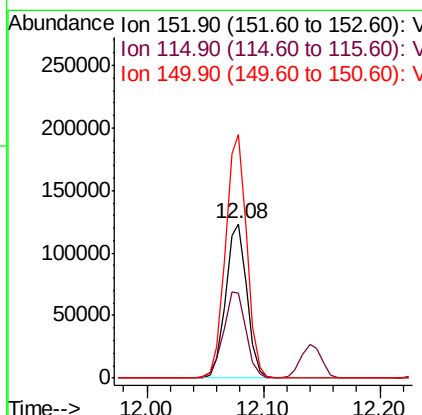
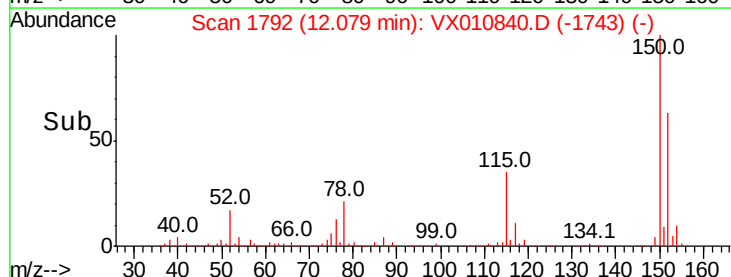
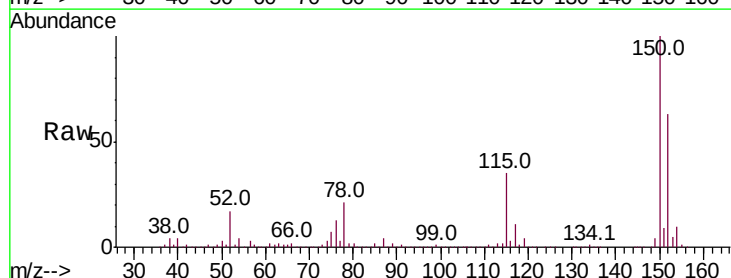
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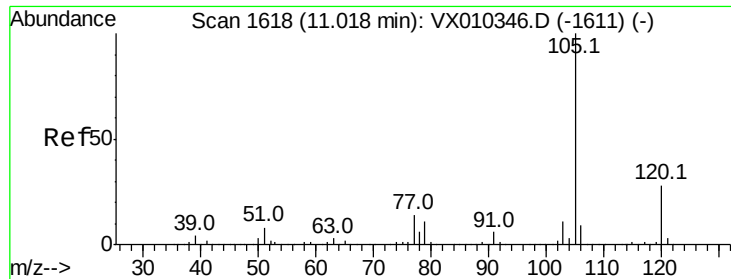
MMDadoda  
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#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. 0.00 min  
Lab File: VX010840.D  
Acq: 12 Jul 2019 16:49

Tgt Ion:152 Resp: 154674  
Ion Ratio Lower Upper  
152 100  
115 59.7 38.6 115.7  
150 158.2 0.0 347.4





#73

Isopropylbenzene

Concen: 39.073 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. 0.00 min

Lab File: VX010840.D

Acq: 12 Jul 2019 16:49

Instrument :

MSVOA\_X

ClientSampleId :

FL-0589

Tot Ion: 105 Resp: 409681

Ion Ratio Lower Upper

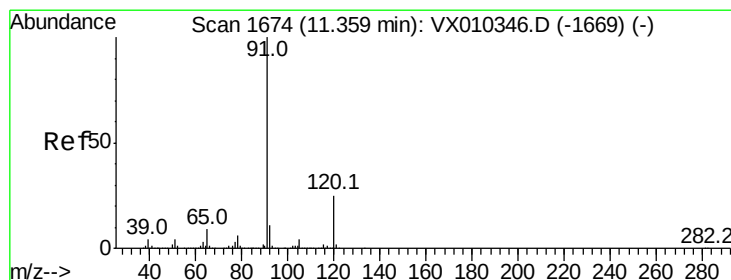
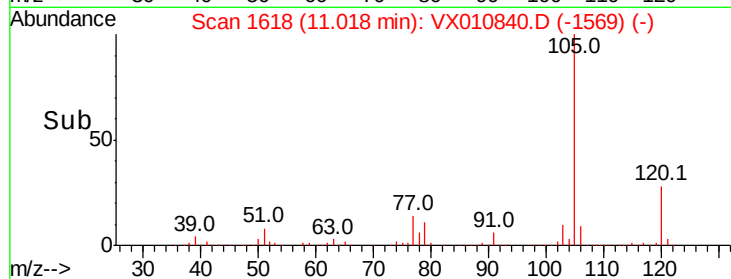
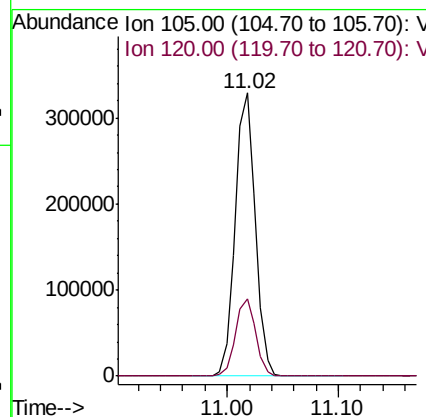
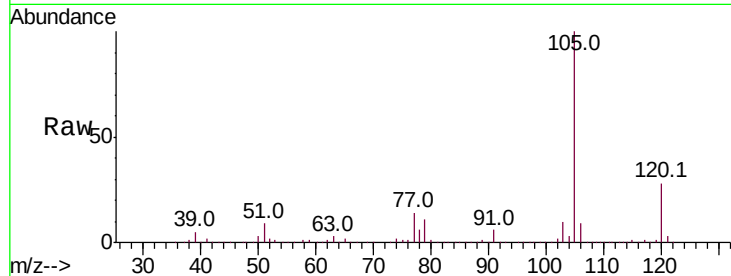
105 100

120 27.4 14.1 42.4

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#78

n-propylbenzene

Concen: 48.440 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. 0.00 min

Lab File: VX010840.D

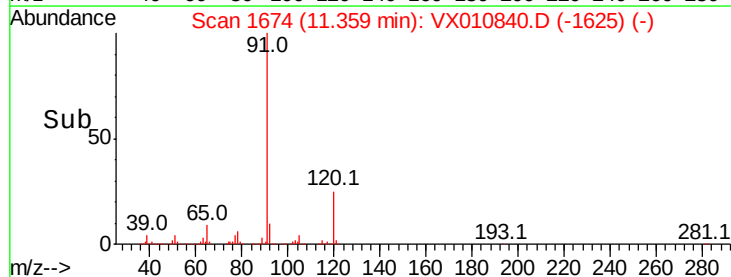
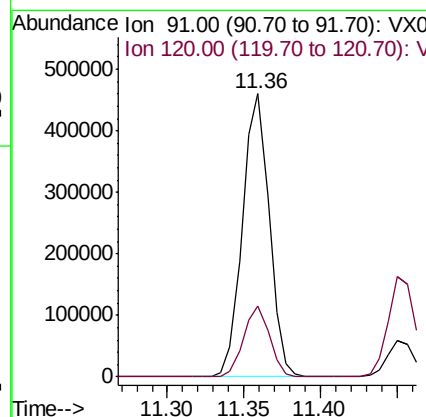
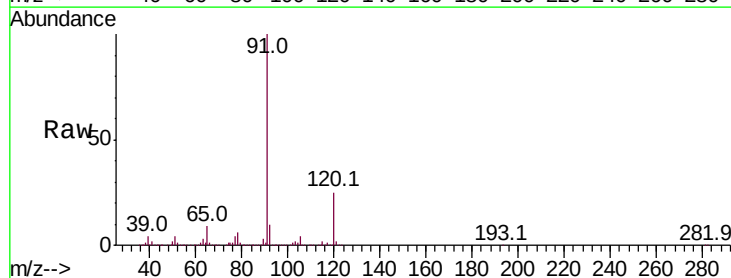
Acq: 12 Jul 2019 16:49

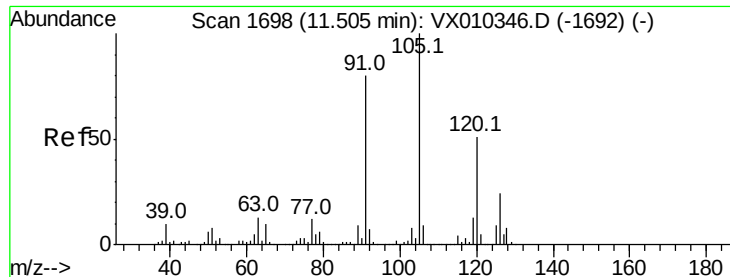
Tgt Ion: 91 Resp: 558197

Ion Ratio Lower Upper

91 100

120 24.2 12.4 37.4





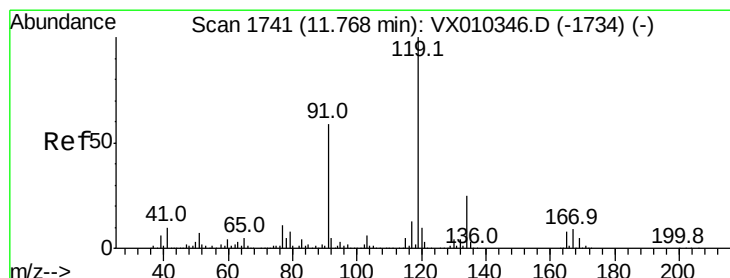
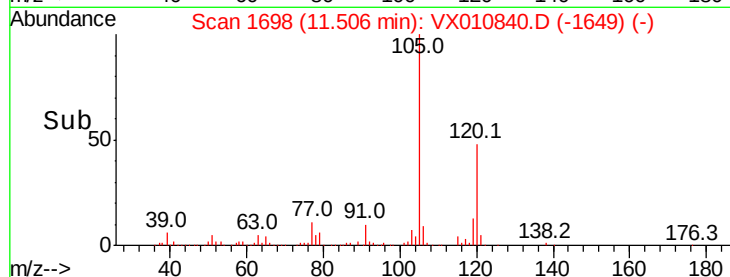
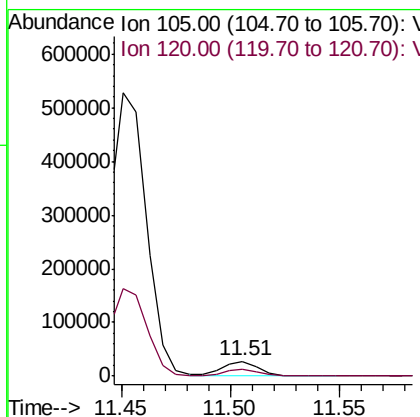
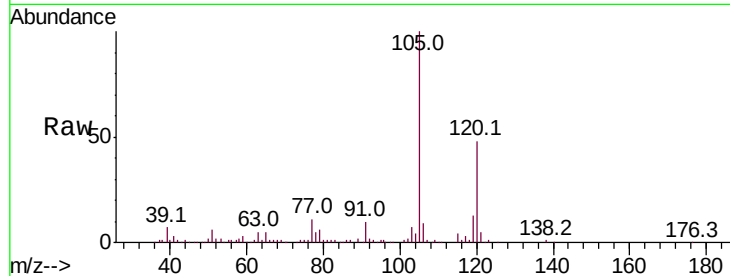
#80  
 1,3,5-Trimethylbenzene  
 Concen: 3.741 ug/l m  
 RT: 11.51 min Scan# 1698  
 Delta R.T. 0.00 min  
 Lab File: VX010840.D  
 Acq: 12 Jul 2019 16:49

Instrument :  
 MSVOA\_X  
 ClientSampled :  
 FL-0589

Tot Ion:105 Resp: 32332  
 Ion Ratio Lower Upper  
 105 100  
 120 611.7 25.2 75.6#

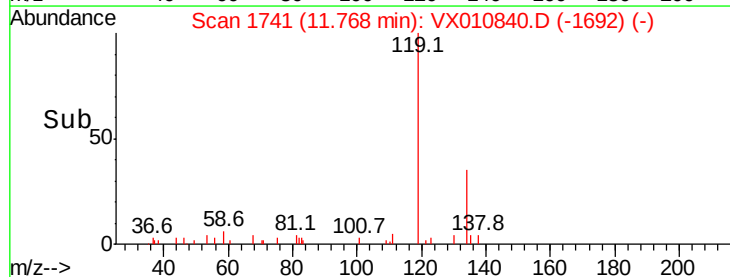
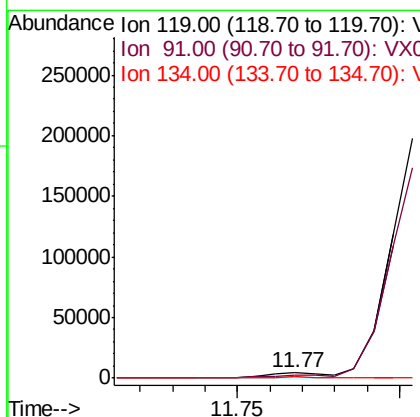
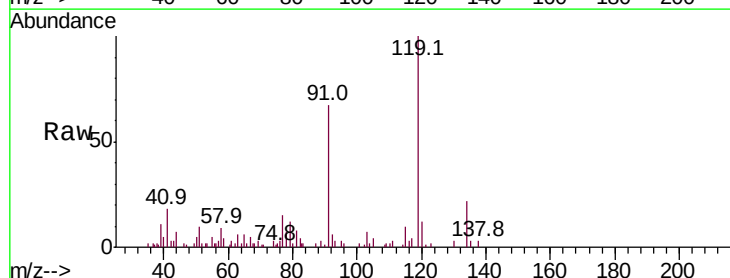
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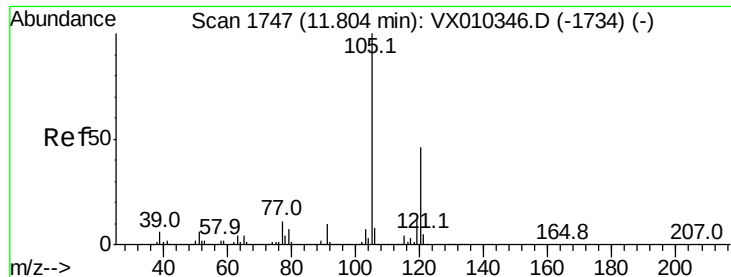
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#83  
 tert-Butylbenzene  
 Concen: 0.652 ug/l m  
 RT: 11.77 min Scan# 1741  
 Delta R.T. 0.00 min  
 Lab File: VX010840.D  
 Acq: 12 Jul 2019 16:49

Tgt Ion:119 Resp: 5656  
 Ion Ratio Lower Upper  
 119 100  
 91 3666.7 27.6 82.7#  
 134 0.0 11.8 35.4#





#84

1,2,4-Trimethylbenzene

Concen: 222.122 ug/l

RT: 11.80 min Scan# 1747

Delta R.T. 0.00 min

Lab File: VX010840.D

Acq: 12 Jul 2019 16:49

Instrument :

MSVOA\_X

ClientSampled :

FL-0589

Tot Ion:105 Resp: 1928935

Ion Ratio Lower Upper

105 100

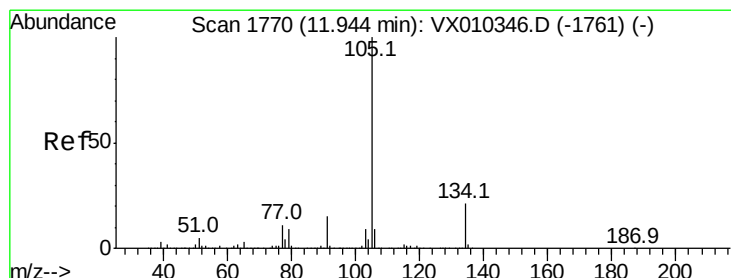
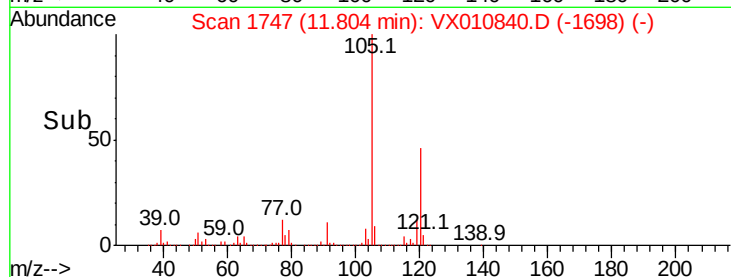
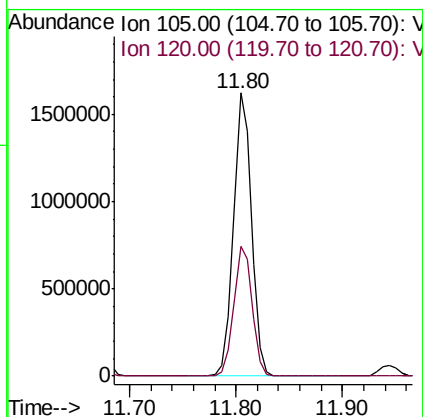
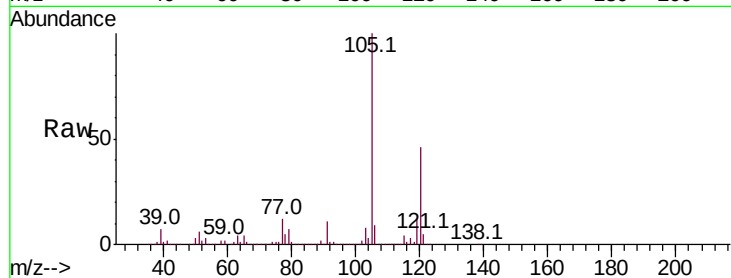
120 46.5 23.1 69.2

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#85

sec-Butylbenzene

Concen: 7.875 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. 0.00 min

Lab File: VX010840.D

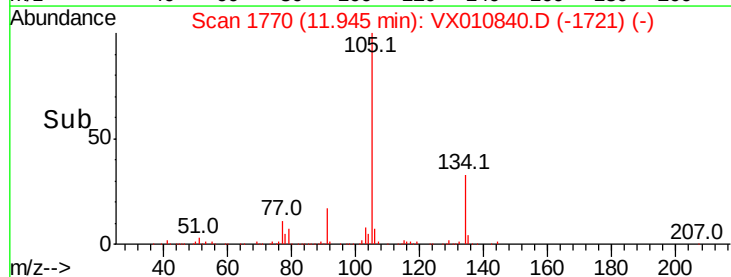
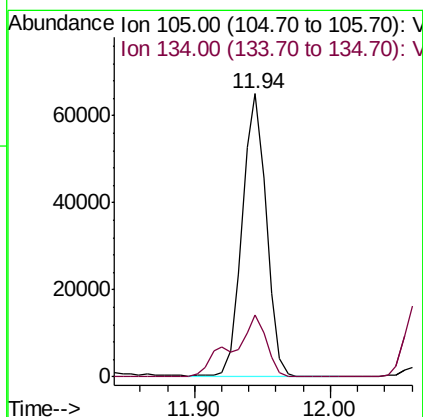
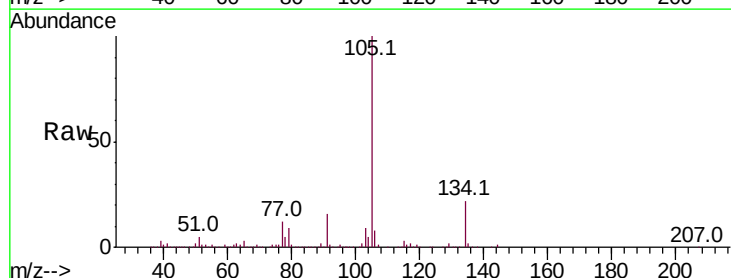
Acq: 12 Jul 2019 16:49

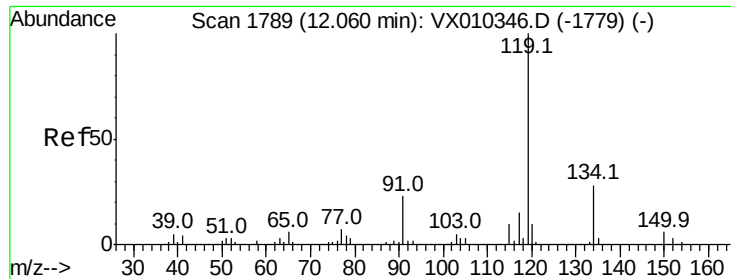
Tgt Ion:105 Resp: 80213

Ion Ratio Lower Upper

105 100

134 31.0 10.7 31.9





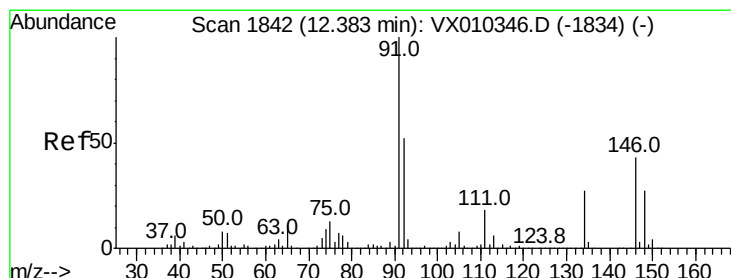
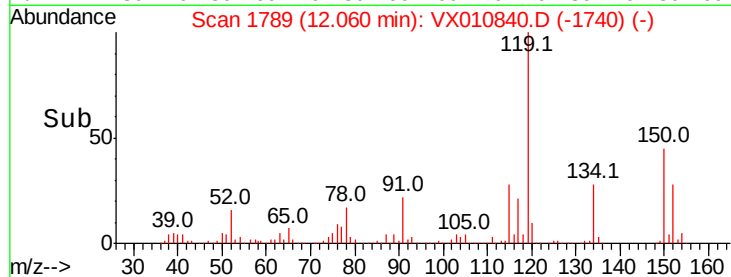
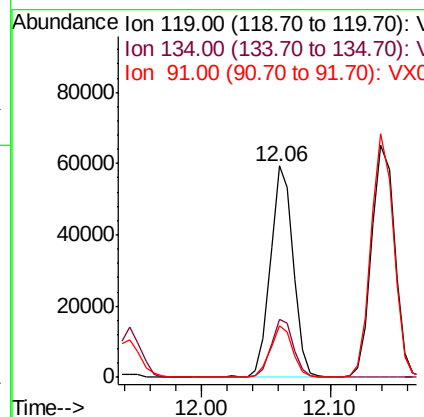
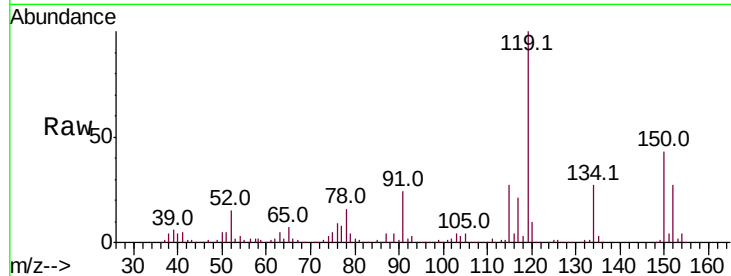
#86  
 p-Isopropyltoluene  
 Concen: 7.771 ug/l  
 RT: 12.06 min Scan# 1789  
 Delta R.T. 0.00 min  
 Lab File: VX010840.D  
 Acq: 12 Jul 2019 16:49

Instrument :  
 MSVOA\_X  
 ClientSampled :  
 FL-0589

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 27.1  | 13.7  | 41.1  |
| 91      | 23.8  | 11.3  | 33.8  |

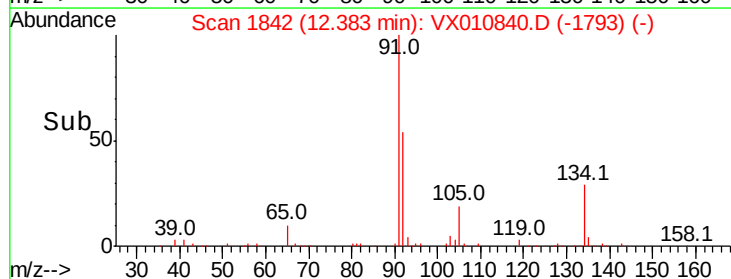
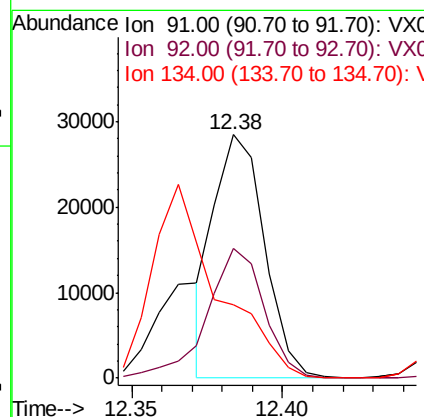
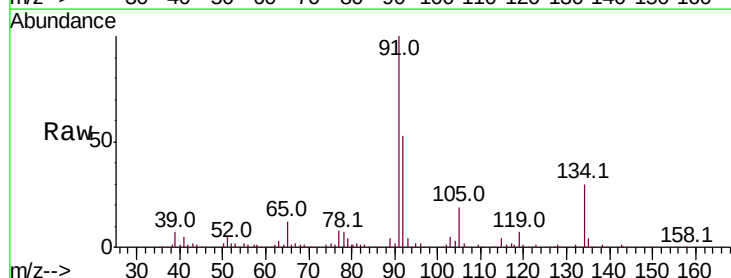
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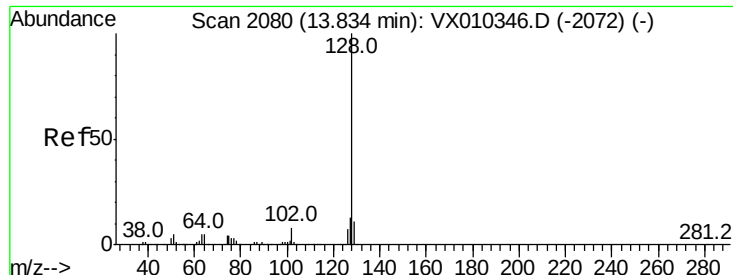
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#89  
 n-Butylbenzene  
 Concen: 4.148 ug/l m  
 RT: 12.38 min Scan# 1842  
 Delta R.T. 0.00 min  
 Lab File: VX010840.D  
 Acq: 12 Jul 2019 16:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 60.4  | 26.2  | 78.5  |
| 134     | 104.8 | 14.1  | 42.4# |





#95  
Naphthalene  
Concen: 29.861 ug/l  
RT: 13.83 min Scan# 2080  
Delta R.T. 0.00 min  
Lab File: VX010840.D  
Acq: 12 Jul 2019 16:49

Instrument :  
MSVOA\_X  
ClientSampleId :  
FL-0589

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 13.6  | 10.2  | 15.4  |
| 129     | 11.7  | 8.9   | 13.3  |

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