

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091619\  
 Data File : VX012423.D  
 Acq On : 16 Sep 2019 22:12  
 Operator : JC/SP  
 Sample : K4830-12  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 K4830-11MS

Manual Integrations  
 APPROVED

MMDadoda  
 9/18/2019 12:02:52 PM

Quant Time: Sep 17 05:44:58 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X091619W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 17 04:36:38 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.   | QIon | Response | Conc    | Units   | Dev(Min) |
|-----------------------------|--------|------|----------|---------|---------|----------|
| 1) Pentafluorobenzene       | 5.65   | 168  | 113276   | 50.00   | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 6.85   | 114  | 185068   | 50.00   | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 10.11  | 117  | 173125   | 50.00   | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 12.07  | 152  | 99785    | 50.00   | ug/l    | 0.00     |
| System Monitoring Compounds |        |      |          |         |         |          |
| 33) 1,2-Dichloroethane-d4   | 6.05   | 65   | 121193   | 52.21   | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =       | 104.42% |          |
| 35) Dibromofluoromethane    | 5.49   | 113  | 85338    | 47.60   | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =       | 95.20%  |          |
| 50) Toluene-d8              | 8.71   | 98   | 311390   | 48.95   | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =       | 97.90%  |          |
| 62) 4-Bromofluorobenzene    | 11.14  | 95   | 128230   | 47.91   | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =       | 95.82%  |          |
| Target Compounds            |        |      |          |         |         |          |
|                             |        |      |          |         | Qvalue  |          |
| 16) Acetone                 | 2.44   | 43   | 3363     | 3.226   | ug/l    | 95       |
| 31) Cyclohexane             | 5.57   | 56   | 77397    | 48.536  | ug/l    | 97       |
| 39) Methylcyclohexane       | 7.46   | 83   | 166800   | 101.540 | ug/l    | 96       |
| 67) Ethyl Benzene           | 10.25  | 91   | 25701    | 3.726   | ug/l    | 94       |
| 68) m/p-Xylenes             | 10.36  | 106  | 32590    | 12.799  | ug/l    | 98       |
| 69) o-Xylene                | 10.70  | 106  | 4958     | 1.878   | ug/l    | 92       |
| 73) Isopropylbenzene        | 11.01  | 105  | 583847   | 84.218  | ug/l    | 99       |
| 78) n-propylbenzene         | 11.35  | 91   | 648467   | 82.767  | ug/l    | 99       |
| 83) tert-Butylbenzene       | 11.76  | 119  | 18010    | 2.813   | ug/l    | 92       |
| 84) 1,2,4-Trimethylbenzene  | 11.81  | 105  | 1526619  | 249.227 | ug/l    | 99       |
| 85) sec-Butylbenzene        | 11.94  | 105  | 109624   | 15.486  | ug/l    | 82       |
| 86) p-Isopropyltoluene      | 12.06  | 119  | 29293    | 4.517   | ug/l    | 99       |
| 89) n-Butylbenzene          | 12.39  | 91   | 26979m   | 4.710   | ug/l    |          |
| 95) Naphthalene             | 13.83  | 128  | 351749   | 41.688  | ug/l    | 98       |

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

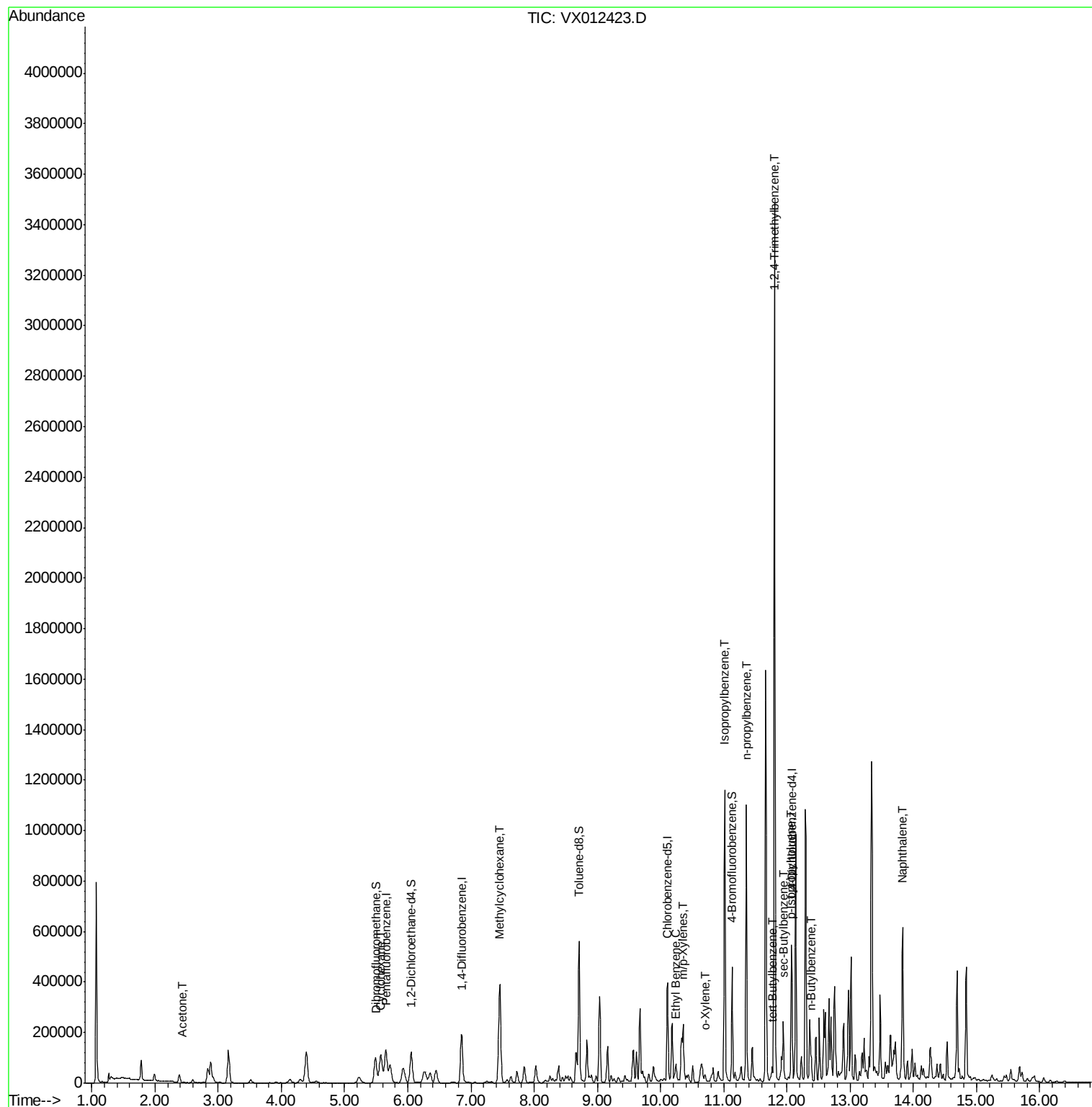
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX091619\  
Data File : VX012423.D  
Acq On : 16 Sep 2019 22:12  
Operator : JC/SP  
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Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 23 Sample Multiplier: 1

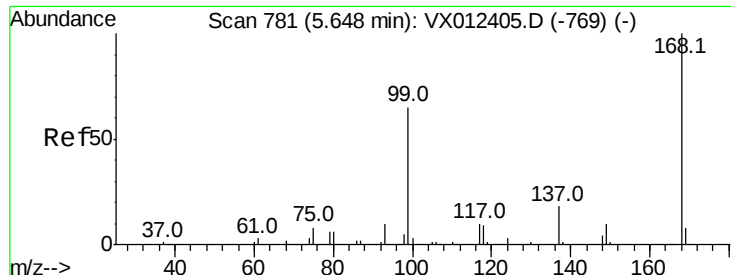
Instrument :  
MSVOA\_X  
ClientSampleId :  
K4830-11MS

Manual Integrations  
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9/18/2019 12:02:52 PM

Quant Time: Sep 17 05:44:58 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X091619W.M  
Quant Title : SW846 8260  
QLast Update : Tue Sep 17 04:36:38 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX012423.D

Acq: 16 Sep 2019 22:12

Instrument :

MSVOA\_X

ClientSampleId :

K4830-11MS

Tot Ion:168 Resp: 113276

Ion Ratio Lower Upper

168 100

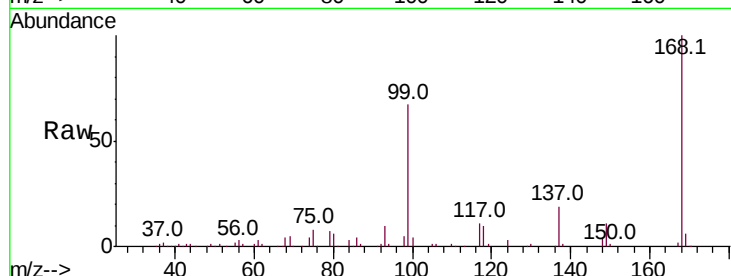
99 67.2 51.8 77.6

Manual Integrations

APPROVED

MMDadoda

9/18/2019 12:02:52 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

40000

30000

20000

10000

0

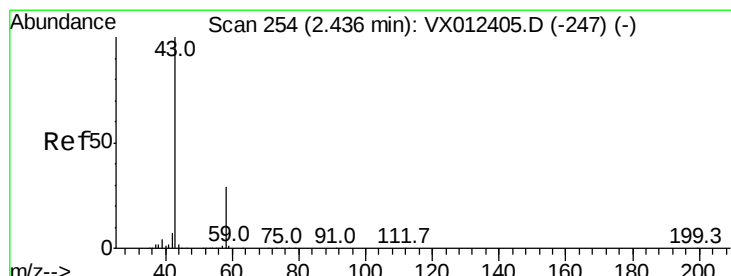
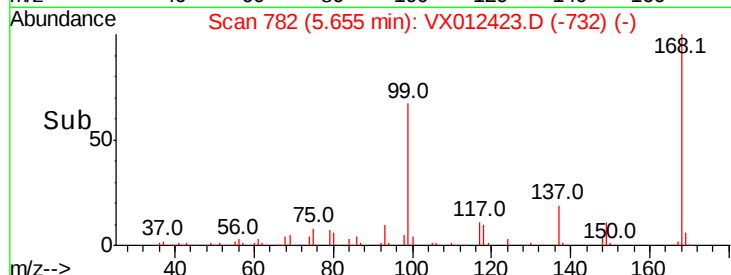
Time-->

5.50

5.60

5.70

5.80



#16

Acetone

Concen: 3.226 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.00 min

Lab File: VX012423.D

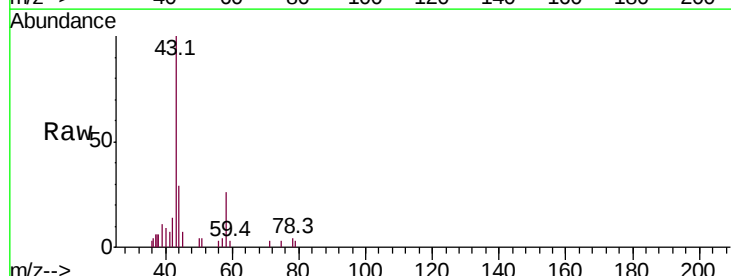
Acq: 16 Sep 2019 22:12

Tgt Ion: 43 Resp: 3363

Ion Ratio Lower Upper

43 100

58 27.0 23.5 35.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

6000

4000

2000

0

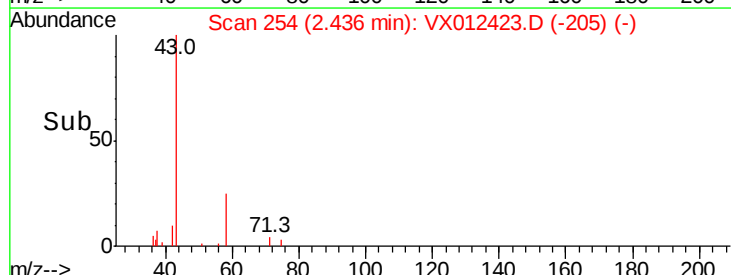
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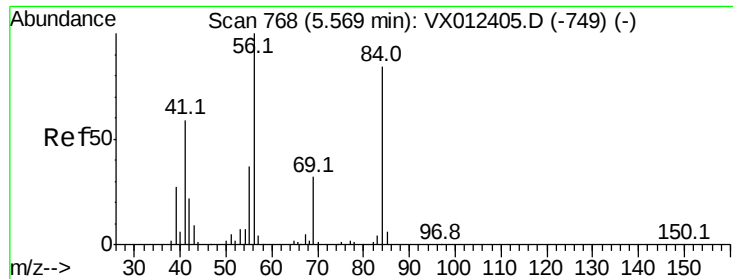
2.40

2.44

2.45

2.50





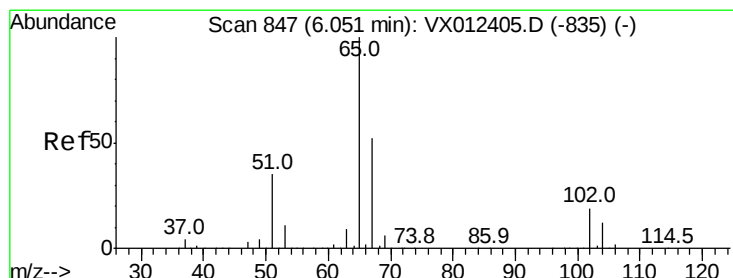
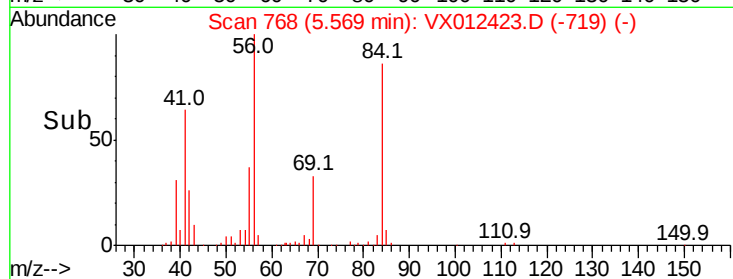
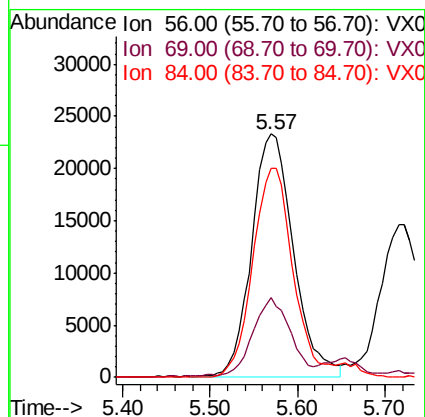
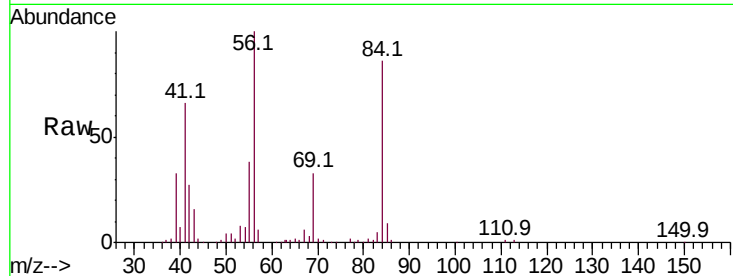
#31  
Cyclohexane  
Concen: 48.536 ug/l  
RT: 5.57 min Scan# 768  
Delta R.T. 0.00 min  
Lab File: VX012423.D  
Acq: 16 Sep 2019 22:12

Instrument :  
MSVOA\_X  
ClientSampleId :  
K4830-11MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 56      | 100   |       |       |
| 69      | 32.4  | 24.9  | 37.3  |
| 84      | 86.4  | 67.2  | 100.8 |

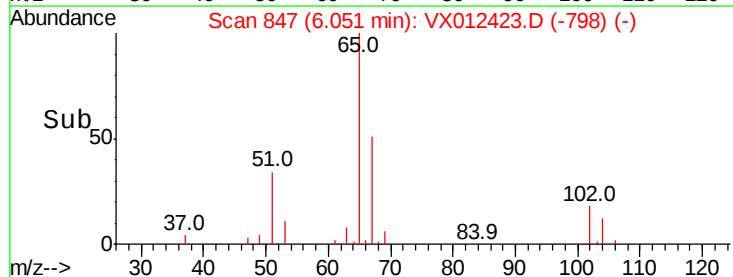
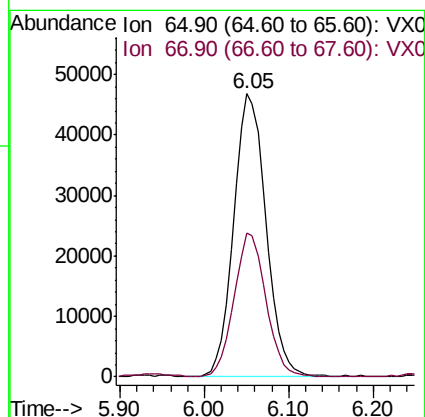
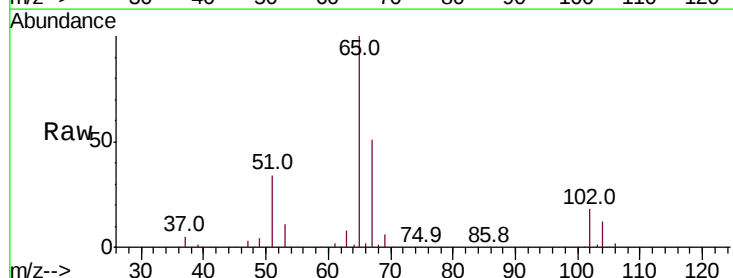
Manual Integrations  
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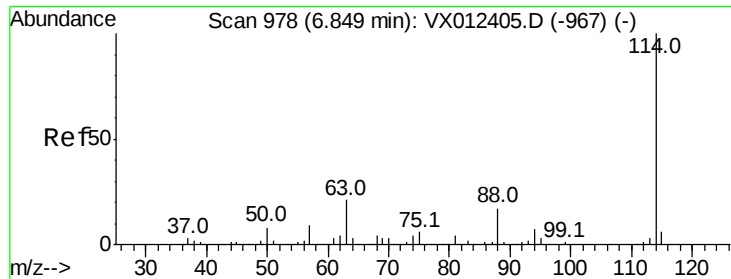
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#33  
1,2-Dichloroethane-d4  
Concen: 52.215 ug/l  
RT: 6.05 min Scan# 847  
Delta R.T. 0.00 min  
Lab File: VX012423.D  
Acq: 16 Sep 2019 22:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 65      | 100   |       |       |
| 67      | 49.8  | 0.0   | 102.8 |





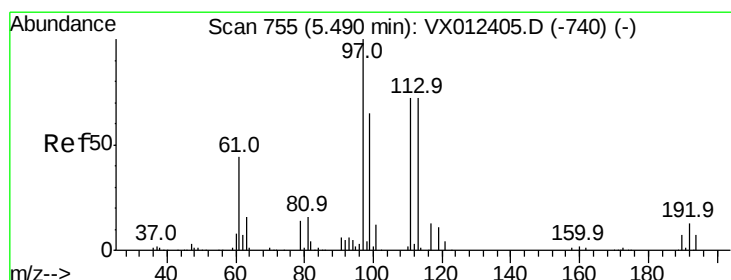
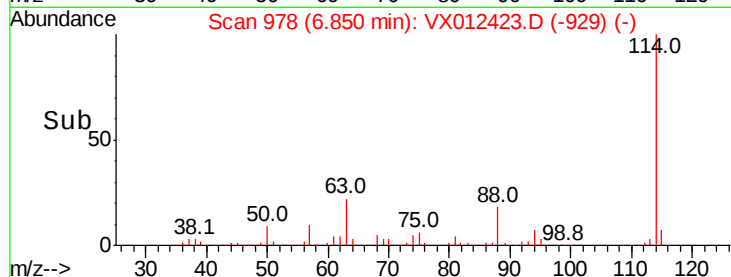
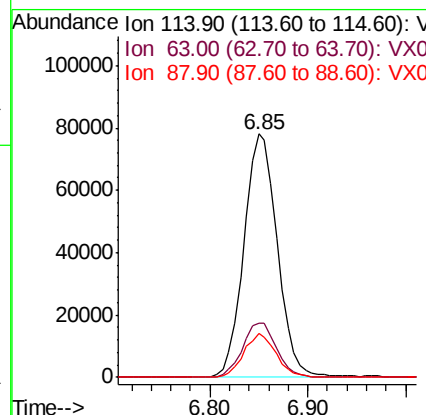
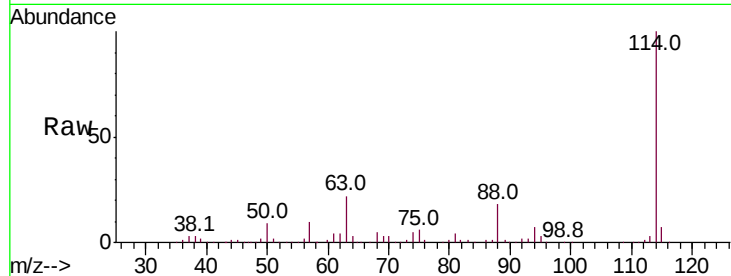
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.85 min Scan# 978  
 Delta R.T. 0.00 min  
 Lab File: VX012423.D  
 Acq: 16 Sep 2019 22:12

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 K4830-11MS

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 114     | 100   |            |       |
| 63      | 22.0  | 0.0        | 42.4  |
| 88      | 17.8  | 0.0        | 33.4  |

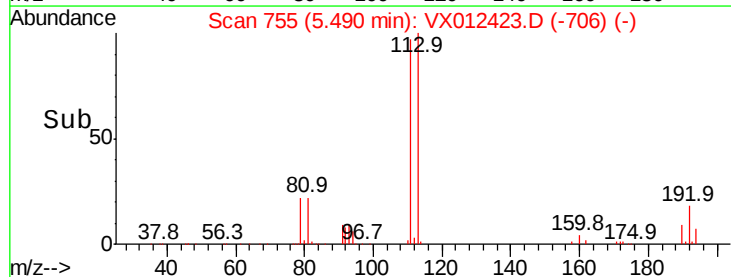
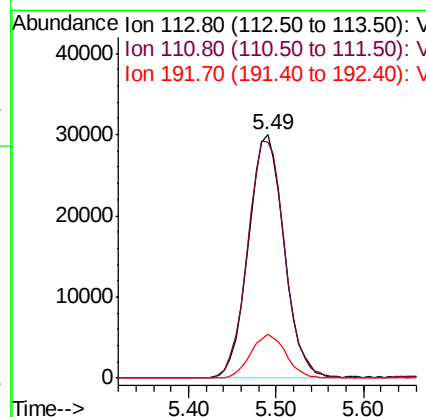
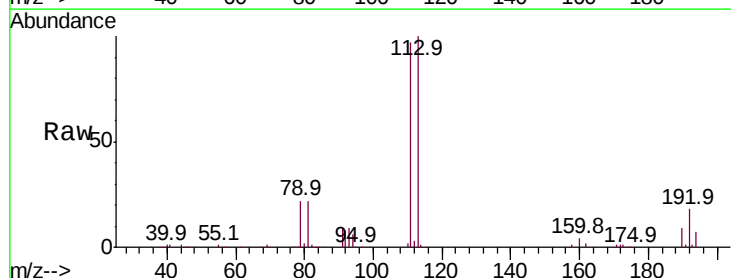
Manual Integrations  
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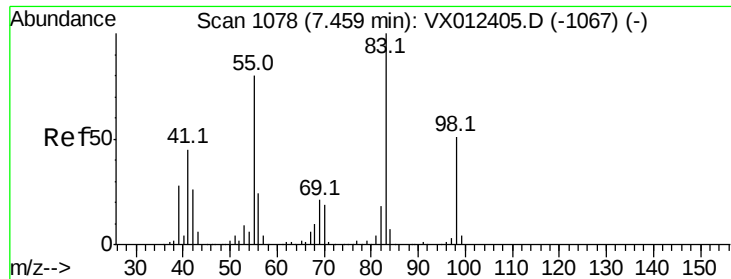
MMDadoda  
 9/18/2019 12:02:52 PM



#35  
 Dibromofluoromethane  
 Concen: 47.602 ug/l  
 RT: 5.49 min Scan# 755  
 Delta R.T. 0.00 min  
 Lab File: VX012423.D  
 Acq: 16 Sep 2019 22:12

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 113     | 100   |            |       |
| 111     | 100.6 | 81.8       | 122.6 |
| 192     | 17.7  | 15.0       | 22.4  |





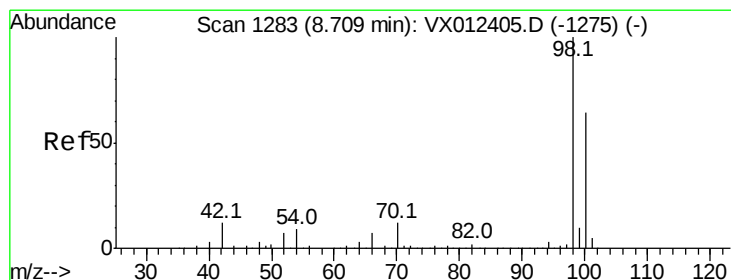
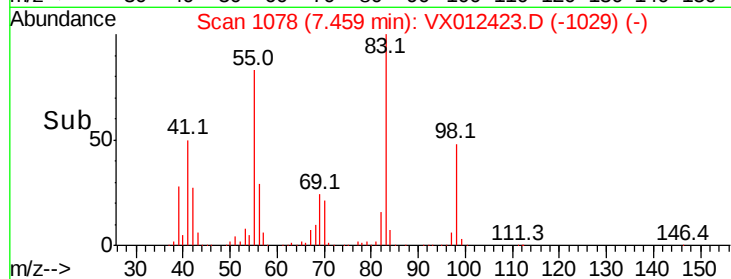
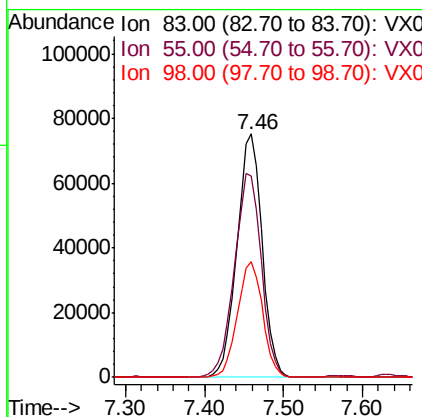
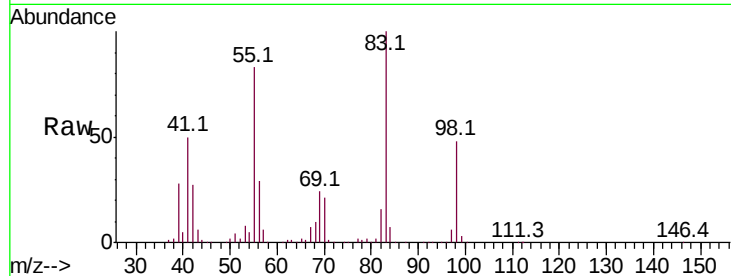
#39  
Methvlcvclohexane  
Concen: 101.540 ug/l  
RT: 7.46 min Scan# 1078  
Delta R.T. 0.00 min  
Lab File: VX012423.D  
Acq: 16 Sep 2019 22:12

Instrument :  
MSVOA\_X  
ClientSampleId :  
K4830-11MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 55      | 82.5  | 63.8  | 95.6  |
| 98      | 47.6  | 40.6  | 61.0  |

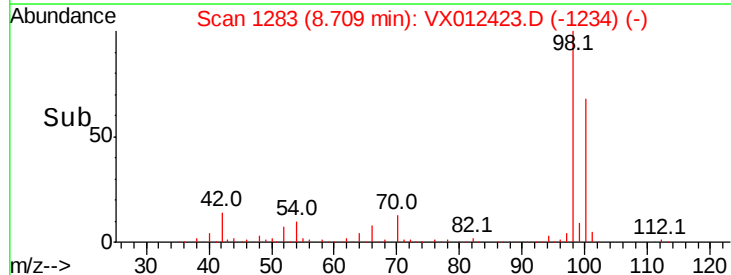
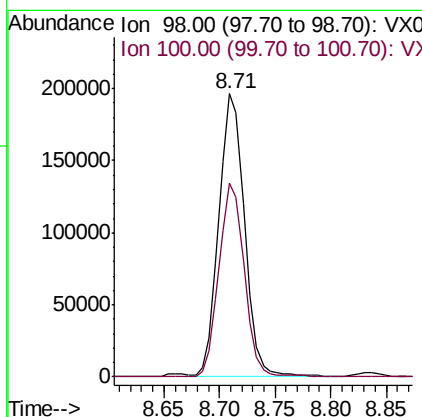
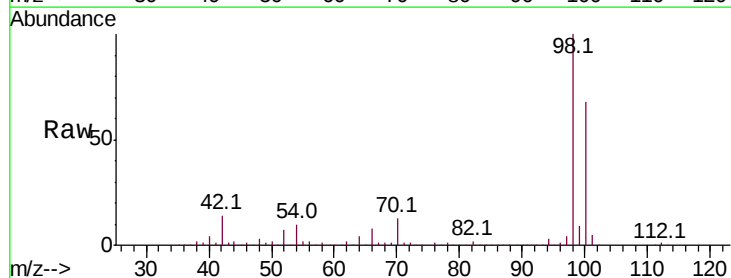
Manual Integrations  
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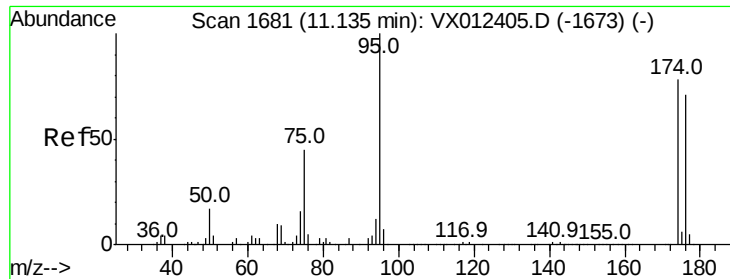
MMDadoda  
9/18/2019 12:02:52 PM



#50  
Toluene-d8  
Concen: 48.948 ug/l  
RT: 8.71 min Scan# 1283  
Delta R.T. 0.00 min  
Lab File: VX012423.D  
Acq: 16 Sep 2019 22:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 98      | 100   |       |       |
| 100     | 68.9  | 54.4  | 81.6  |





#62

4-Bromofluorobenzene

Concen: 47.910 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX012423.D

Acq: 16 Sep 2019 22:12

Instrument :

MSVOA\_X

ClientSampleId :

K4830-11MS

Tot Ion: 95 Resp: 128230

Ion Ratio Lower Upper

95 100

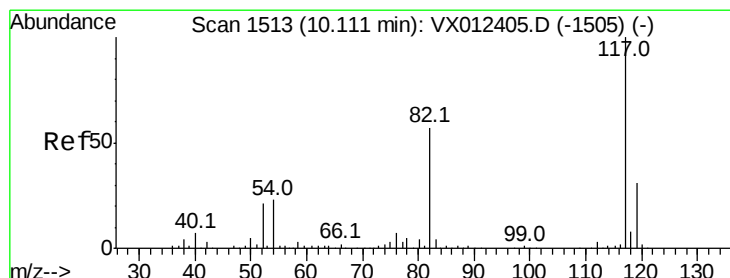
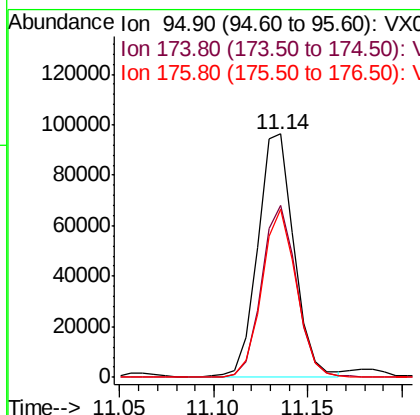
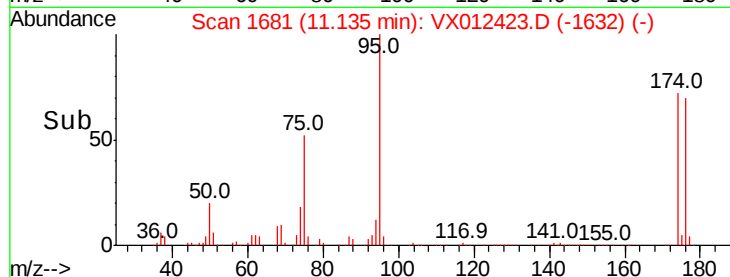
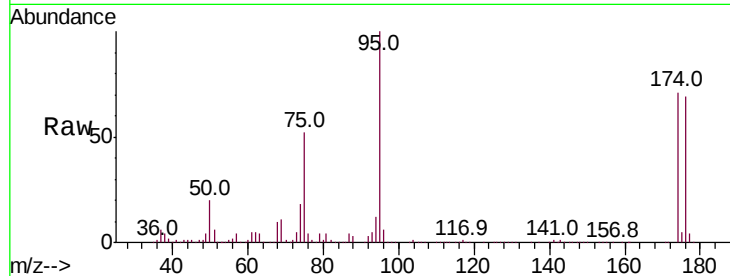
174 68.4 0.0 146.0

176 66.0 0.0 137.6

Manual Integrations  
APPROVED

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#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX012423.D

Acq: 16 Sep 2019 22:12

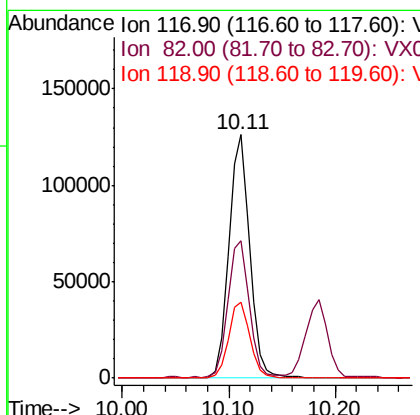
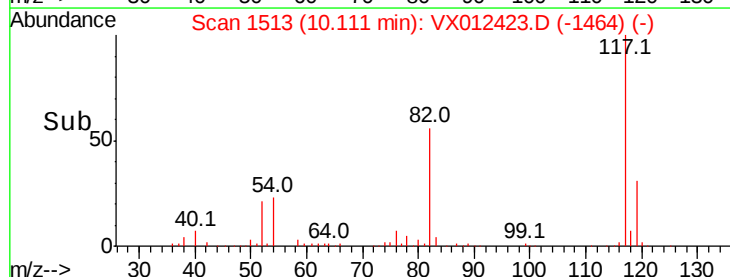
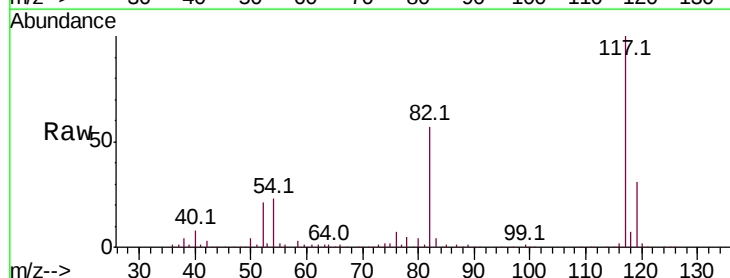
Tgt Ion: 117 Resp: 173125

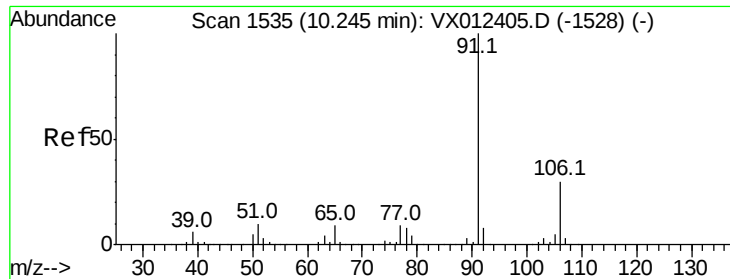
Ion Ratio Lower Upper

117 100

82 56.3 45.8 68.6

119 31.4 24.9 37.3





#67

Ethyl Benzene

Concen: 3.726 ug/l

RT: 10.25 min Scan# 1535

Delta R.T. 0.00 min

Lab File: VX012423.D

Acq: 16 Sep 2019 22:12

Instrument :

MSVOA\_X

ClientSampleId :

K4830-11MS

Tot Ion: 91 Resp: 25701

Ion Ratio Lower Upper

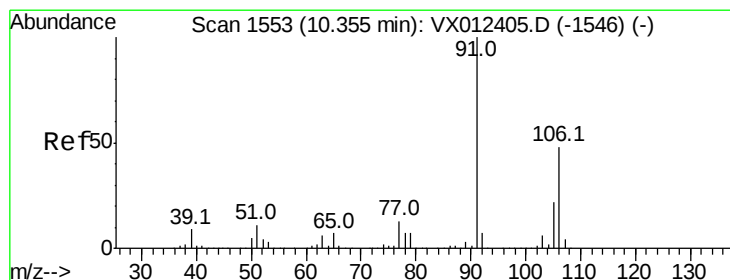
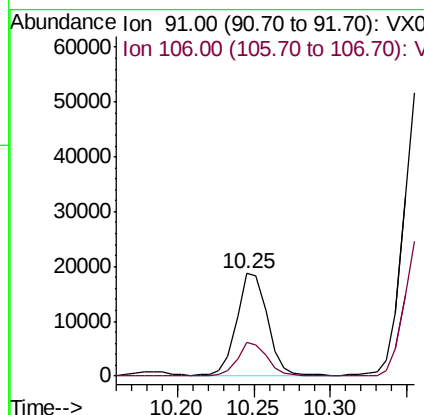
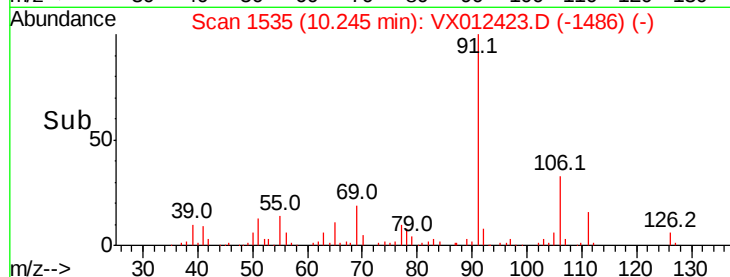
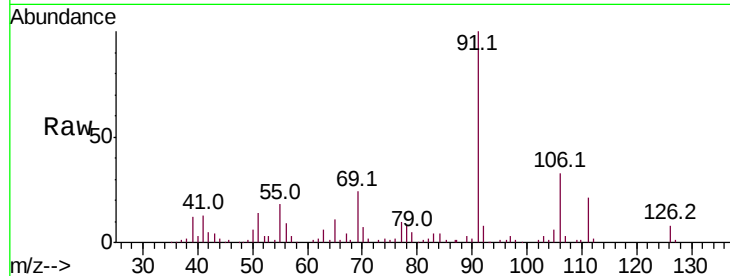
91 100

106 33.3 24.0 36.0

Manual Integrations  
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#68

m/p-Xylenes

Concen: 12.799 ug/l

RT: 10.36 min Scan# 1553

Delta R.T. 0.00 min

Lab File: VX012423.D

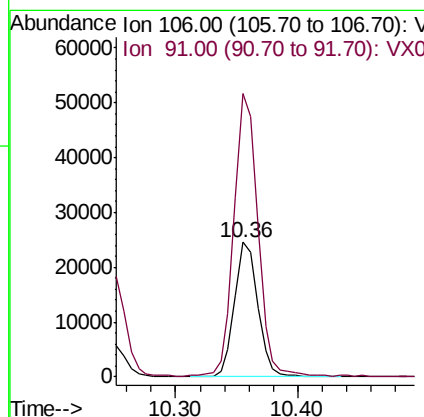
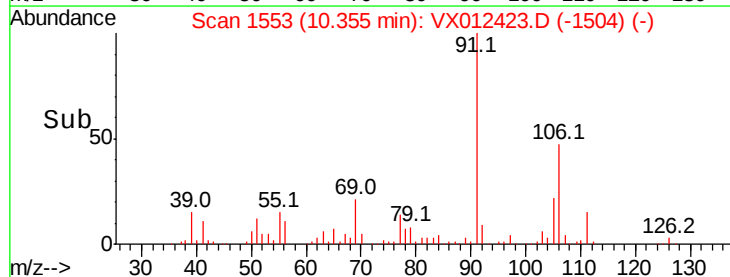
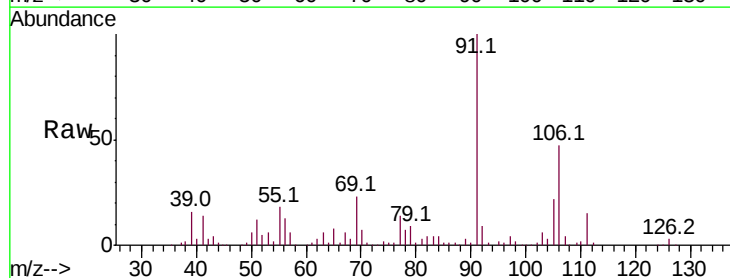
Acq: 16 Sep 2019 22:12

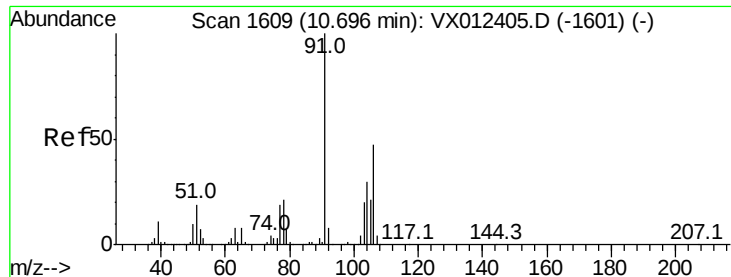
Tgt Ion: 106 Resp: 32590

Ion Ratio Lower Upper

106 100

91 212.1 167.4 251.0





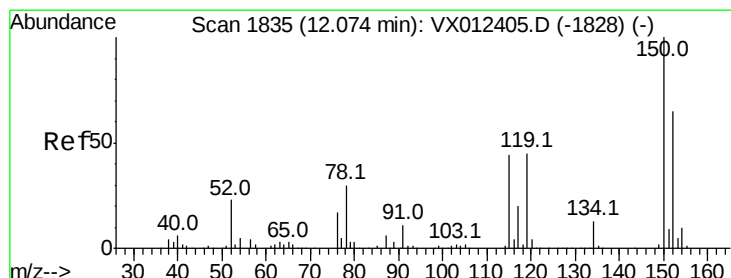
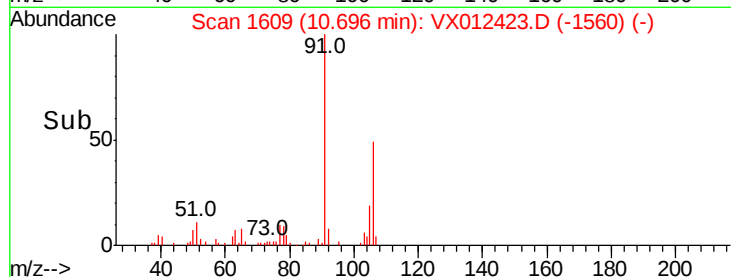
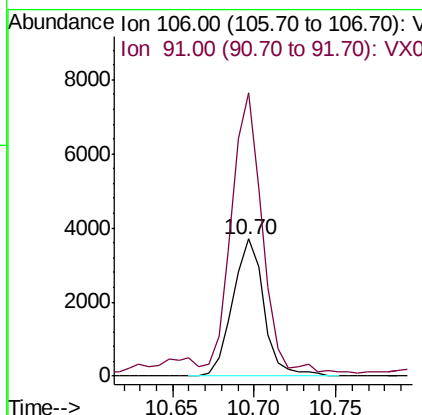
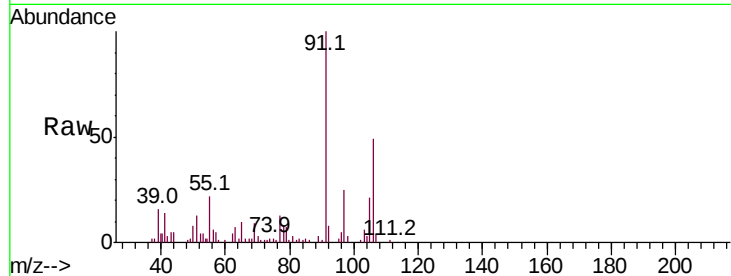
#69  
o-Xylene  
Concen: 1.878 ug/l  
RT: 10.70 min Scan# 1609  
Delta R.T. 0.00 min  
Lab File: VX012423.D  
Acq: 16 Sep 2019 22:12

Instrument :  
MSVOA\_X  
ClientSampleId :  
K4830-11MS

Tot Ion:106 Resp: 4958  
Ion Ratio Lower Upper  
106 100  
91 202.4 107.8 323.6

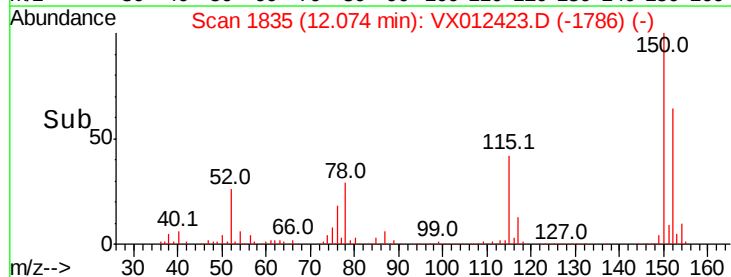
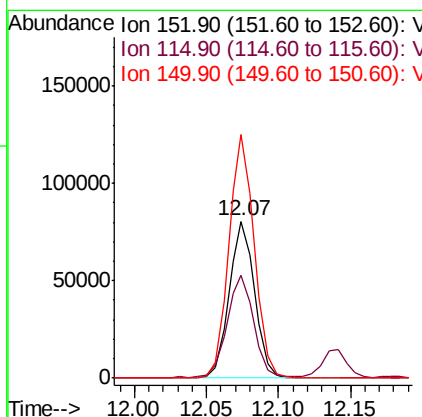
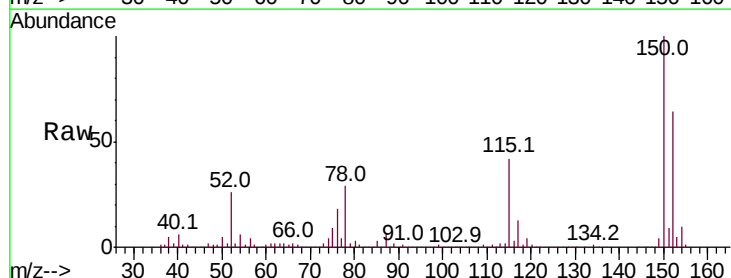
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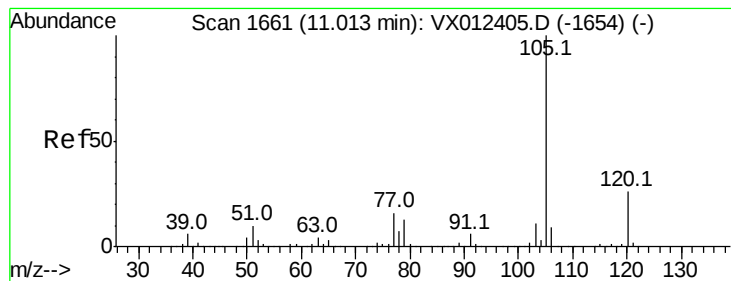
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#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.07 min Scan# 1835  
Delta R.T. 0.00 min  
Lab File: VX012423.D  
Acq: 16 Sep 2019 22:12

Tgt Ion:152 Resp: 99785  
Ion Ratio Lower Upper  
152 100  
115 69.5 45.3 135.9  
150 154.8 0.0 354.0





#73

Isopropylbenzene

Concen: 84.218 ug/l

RT: 11.01 min Scan# 1661

Delta R.T. 0.00 min

Lab File: VX012423.D

Acq: 16 Sep 2019 22:12

Instrument :

MSVOA\_X

ClientSampled :

K4830-11MS

Tot Ion:105 Resp: 583847

Ion Ratio Lower Upper

105 100

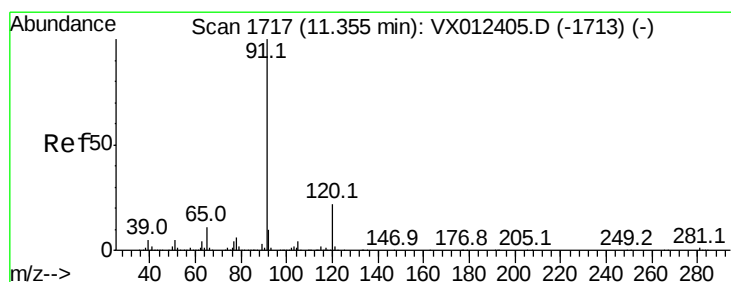
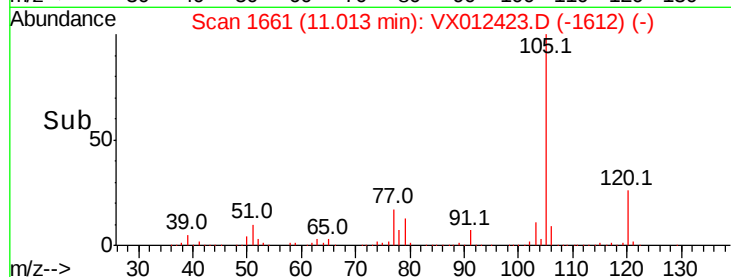
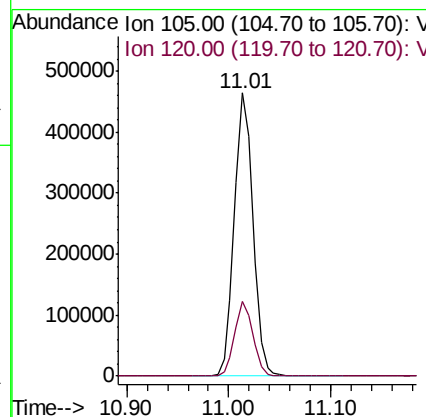
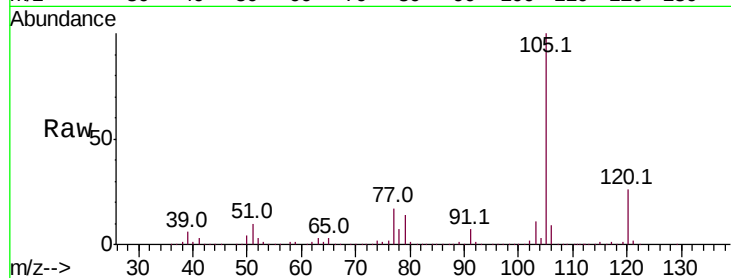
120 25.9 13.2 39.6

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#78

n-propylbenzene

Concen: 82.767 ug/l

RT: 11.35 min Scan# 1717

Delta R.T. 0.00 min

Lab File: VX012423.D

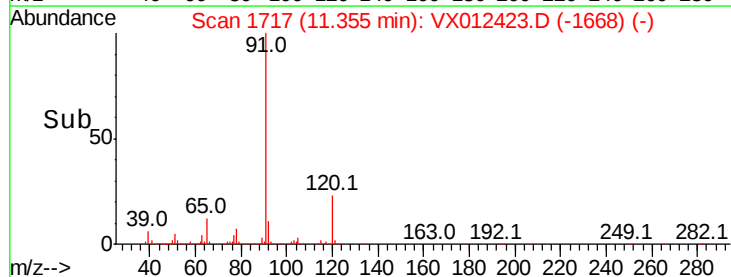
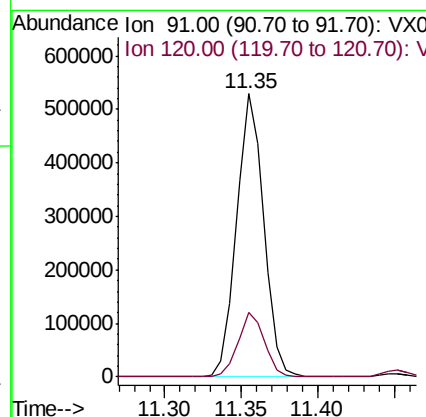
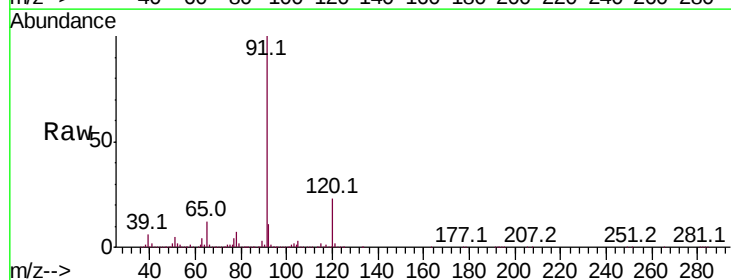
Acq: 16 Sep 2019 22:12

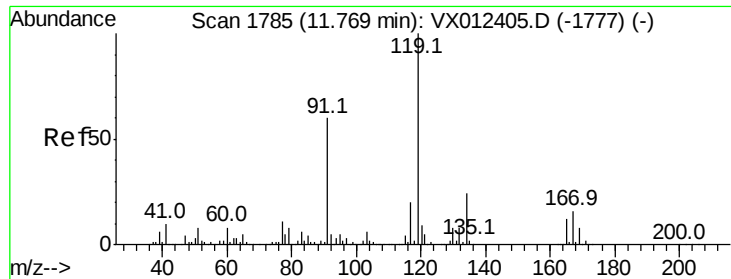
Tgt Ion: 91 Resp: 648467

Ion Ratio Lower Upper

91 100

120 22.2 11.5 34.4





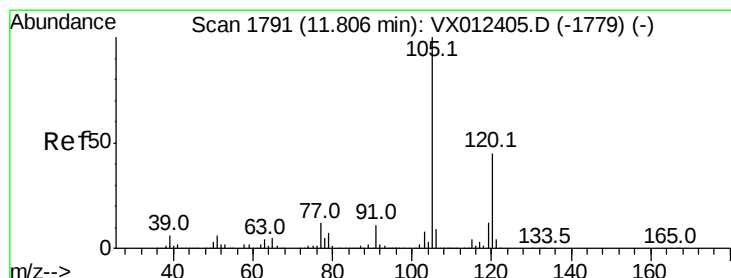
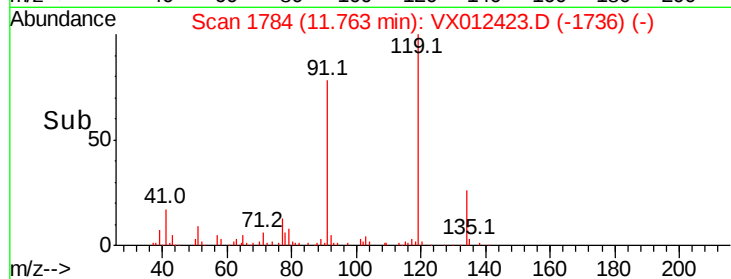
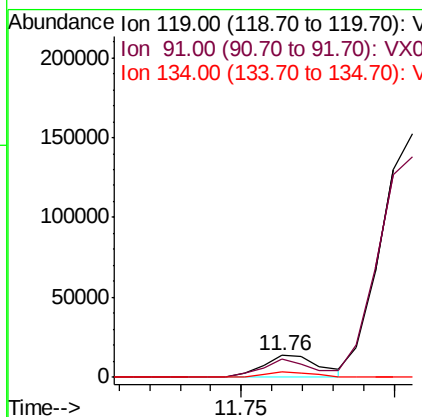
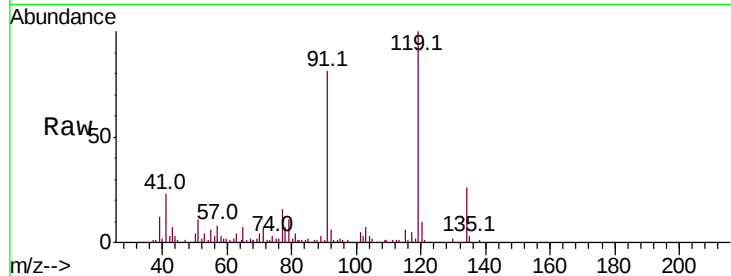
#83  
tert-Butylbenzene  
Concen: 2.813 ug/l  
RT: 11.76 min Scan# 1784  
Delta R.T. -0.01 min  
Lab File: VX012423.D  
Acq: 16 Sep 2019 22:12

Instrument :  
MSVOA\_X  
ClientSampleId :  
K4830-11MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 91      | 67.0  | 29.6  | 88.8  |
| 134     | 22.8  | 11.4  | 34.1  |

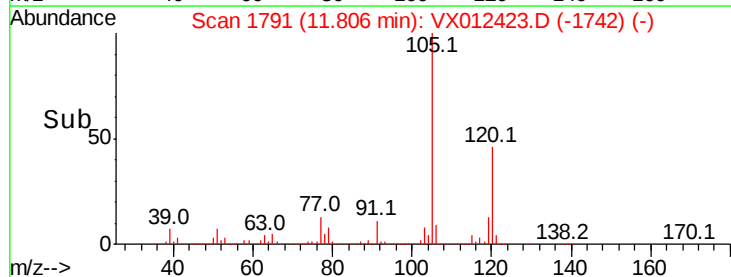
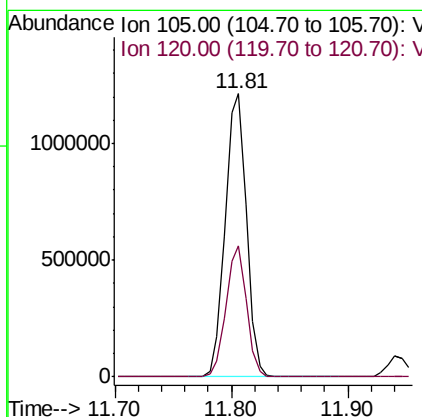
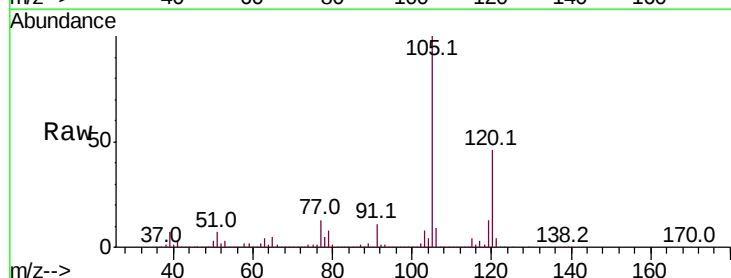
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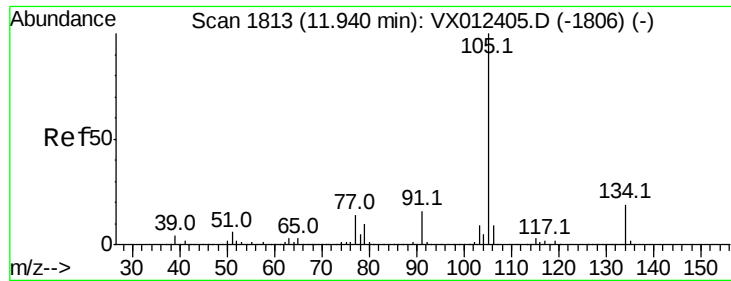
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#84  
1,2,4-Trimethylbenzene  
Concen: 249.227 ug/l  
RT: 11.81 min Scan# 1791  
Delta R.T. 0.00 min  
Lab File: VX012423.D  
Acq: 16 Sep 2019 22:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 44.6  | 22.1  | 66.5  |





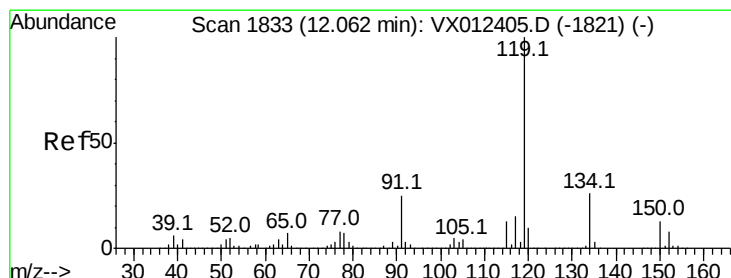
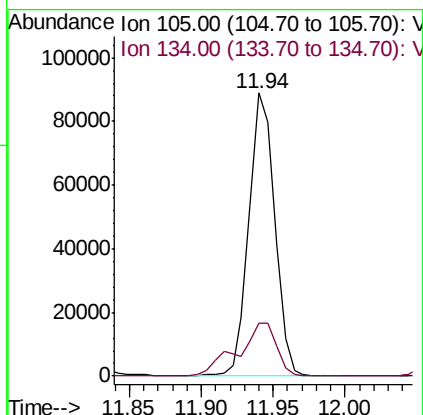
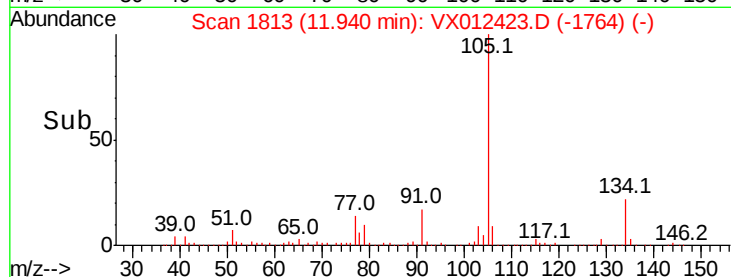
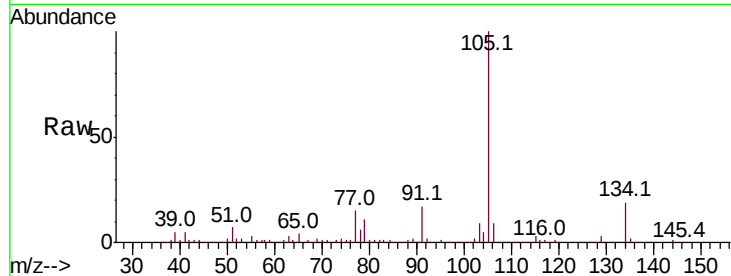
#85  
 sec-Butylbenzene  
 Concen: 15.486 ug/l  
 RT: 11.94 min Scan# 1813  
 Delta R.T. 0.00 min  
 Lab File: VX012423.D  
 Acq: 16 Sep 2019 22:12

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 K4830-11MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 134     | 28.3  | 10.1  | 30.1  |

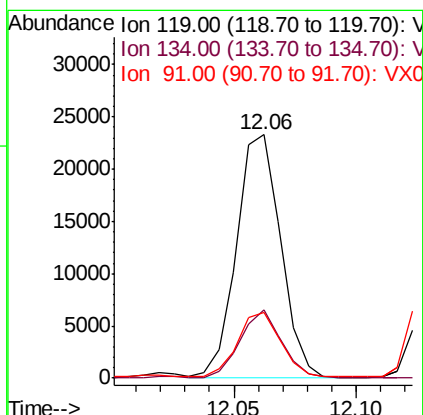
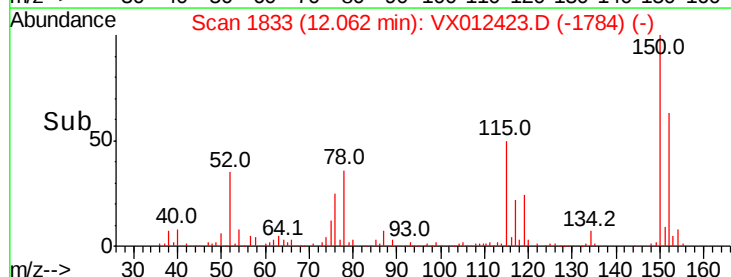
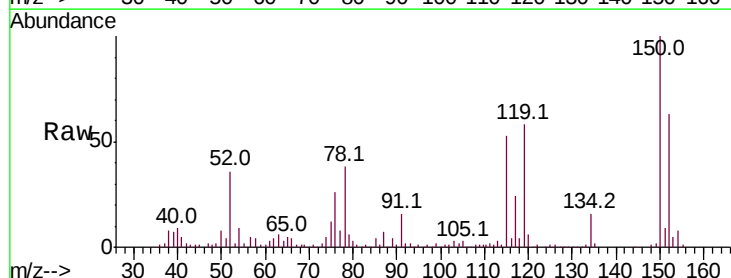
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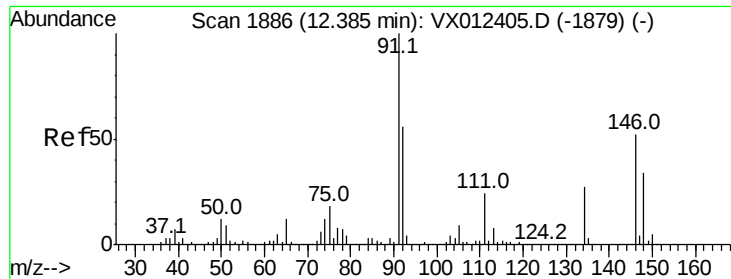
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#86  
 p-Isopropyltoluene  
 Concen: 4.517 ug/l  
 RT: 12.06 min Scan# 1833  
 Delta R.T. 0.00 min  
 Lab File: VX012423.D  
 Acq: 16 Sep 2019 22:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 26.4  | 12.9  | 38.6  |
| 91      | 25.8  | 12.9  | 38.6  |





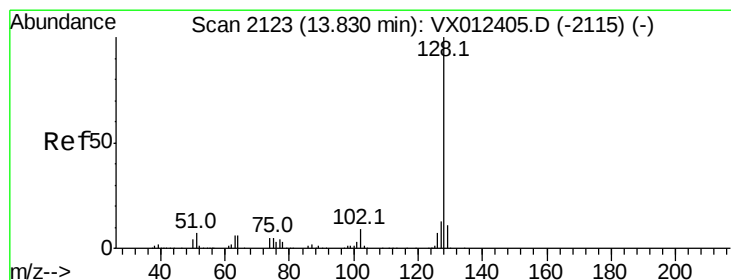
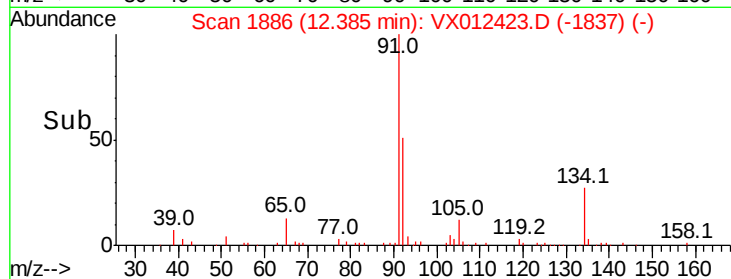
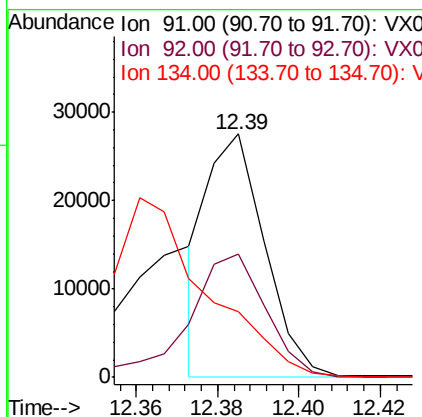
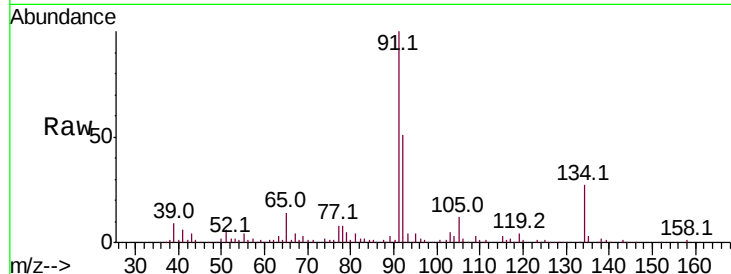
#89  
n-Butylbenzene  
Concen: 4.710 ug/l m  
RT: 12.39 min Scan# 1886  
Delta R.T. 0.00 min  
Lab File: VX012423.D  
Acq: 16 Sep 2019 22:12

Instrument :  
MSVOA\_X  
ClientSampleId :  
K4830-11MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 69.0  | 27.5  | 82.4  |
| 134     | 0.0   | 13.2  | 39.6  |

Manual Integrations  
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#95  
Naphthalene  
Concen: 41.688 ug/l  
RT: 13.83 min Scan# 2123  
Delta R.T. 0.00 min  
Lab File: VX012423.D  
Acq: 16 Sep 2019 22:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 13.4  | 10.2  | 15.4  |
| 129     | 12.1  | 8.6   | 13.0  |

