

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX032619\  
 Data File : VX008453.D  
 Acq On : 26 Mar 2019 13:43  
 Operator : JC/SP  
 Sample : K2088-04 200X  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-102

Manual Integrations  
 APPROVED

MMDadoda  
 3/27/2019 10:40:55 AM

Quant Time: Mar 27 02:15:40 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X032519W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Mar 26 07:57:20 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 229081   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 384037   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 327280   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 133985   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.06  | 65   | 161296   | 46.44 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 92.88% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 118740   | 47.42 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.84% |          |
| 50) Toluene-d8              | 8.71  | 98   | 484866   | 48.42 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.84% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 162789   | 43.87 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 87.74% |          |

| Target Compounds           | R.T.  | QIon | Response | Conc    | Units | Qvalue |
|----------------------------|-------|------|----------|---------|-------|--------|
| 31) Cyclohexane            | 5.58  | 56   | 4106     | 0.738   | ug/l  | 96     |
| 39) Methylcyclohexane      | 7.46  | 83   | 2290     | 0.468   | ug/l  | 90     |
| 40) Benzene                | 6.14  | 78   | 516380   | 42.124  | ug/l  | 100    |
| 52) Toluene                | 8.79  | 92   | 1013914  | 138.330 | ug/l  | 99     |
| 61) 1,2-Dibromoethane      | 9.67  | 107  | 1562     | 0.513   | ug/l  | 98     |
| 67) Ethyl Benzene          | 10.25 | 91   | 112457   | 8.372   | ug/l  | 99     |
| 68) m/p-Xylenes            | 10.35 | 106  | 178135   | 36.453  | ug/l  | 100    |
| 69) o-Xylene               | 10.69 | 106  | 81506    | 17.187  | ug/l  | 99     |
| 73) Isopropylbenzene       | 11.02 | 105  | 4595     | 0.422   | ug/l  | 100    |
| 78) n-propylbenzene        | 11.36 | 91   | 12322    | 0.965   | ug/l  | 97     |
| 80) 1,3,5-Trimethylbenzene | 11.51 | 105  | 21561    | 2.340   | ug/l  | 98     |
| 84) 1,2,4-Trimethylbenzene | 11.80 | 105  | 81137    | 8.705   | ug/l  | 99     |
| 95) Naphthalene            | 13.83 | 128  | 22465    | 2.056   | ug/l  | 98     |

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

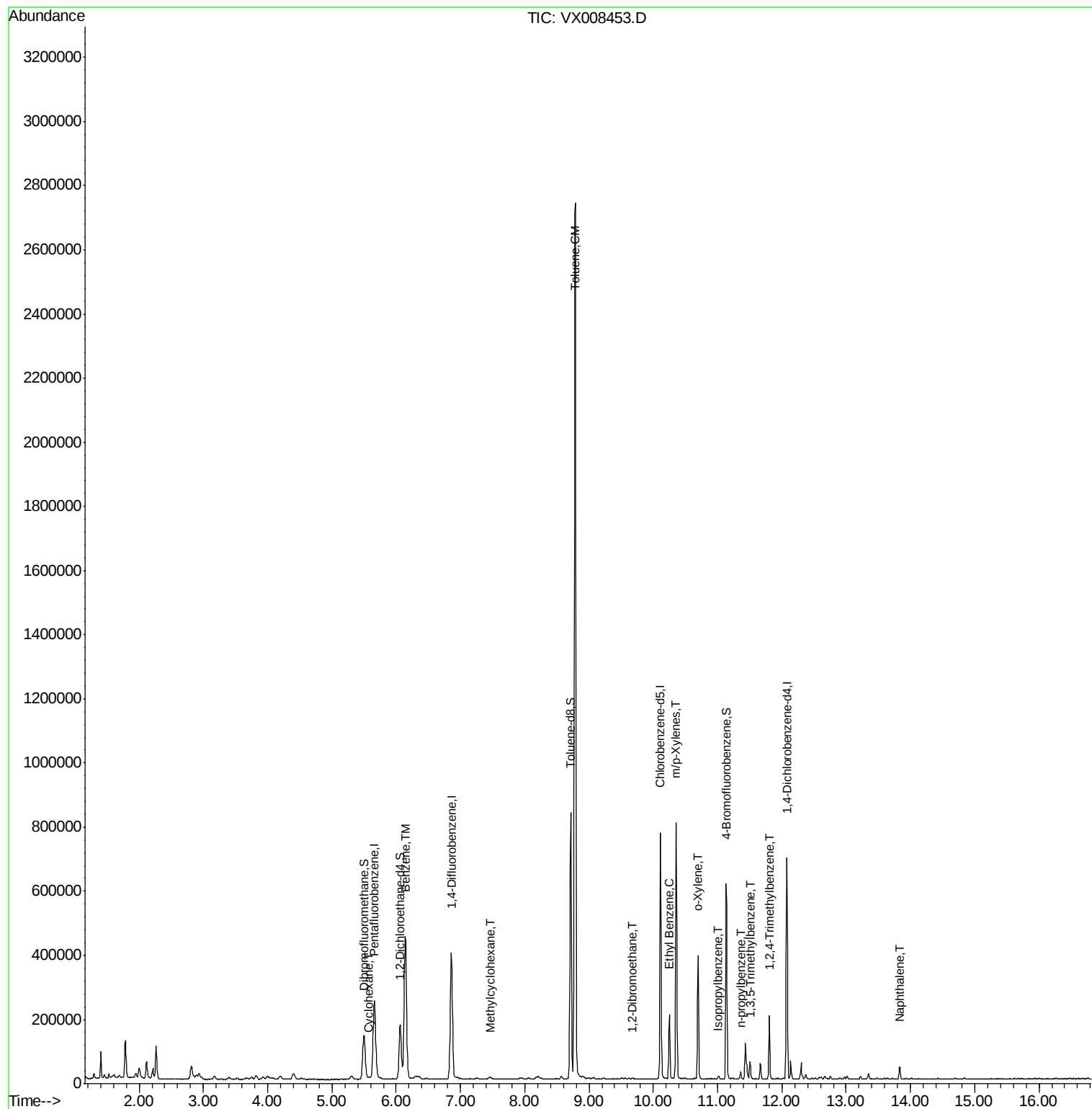
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX032619\  
Data File : VX008453.D  
Acq On : 26 Mar 2019 13:43  
Operator : JC/SP  
Sample : K2088-04 200X  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 9 Sample Multiplier: 1

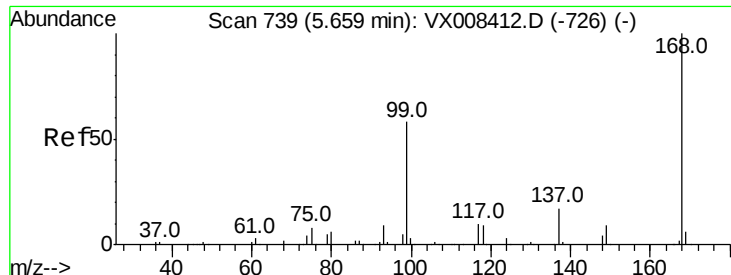
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-102

Manual Integrations  
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3/27/2019 10:40:55 AM

Quant Time: Mar 27 02:15:40 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X032519W.M  
Quant Title : SW846 8260  
QLast Update : Tue Mar 26 07:57:20 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.00 min

Lab File: VX008453.D

Acq: 26 Mar 2019 13:43

Instrument :

MSVOA\_X

ClientSampleId :

MW-102

Tot Ion:168 Resp: 229081

Ion Ratio Lower Upper

168 100

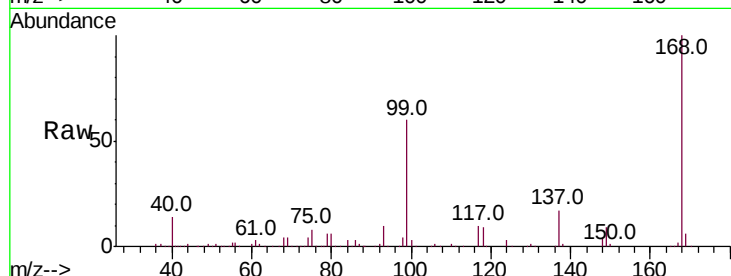
99 59.4 46.0 69.0

Manual Integrations

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MMDadoda

3/27/2019 10:40:55 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

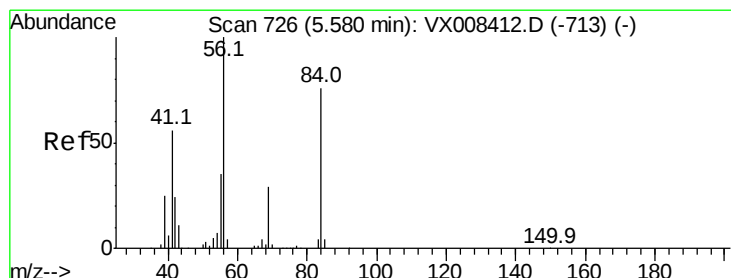
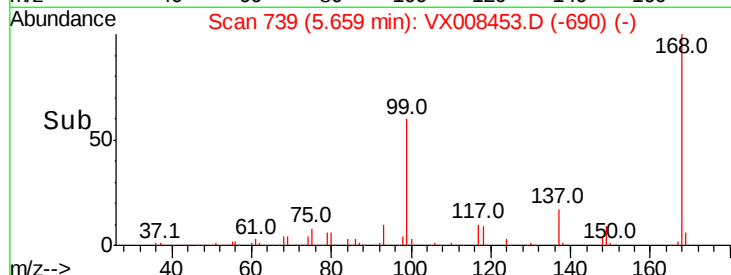
60000

40000

20000

0

Time-->



#31

Cyclohexane

Concen: 0.738 ug/l

RT: 5.58 min Scan# 726

Delta R.T. 0.00 min

Lab File: VX008453.D

Acq: 26 Mar 2019 13:43

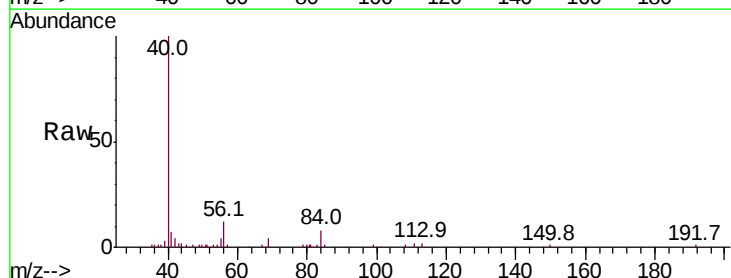
Tgt Ion: 56 Resp: 4106

Ion Ratio Lower Upper

56 100

69 29.4 23.2 34.8

84 70.9 60.7 91.1



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

4000

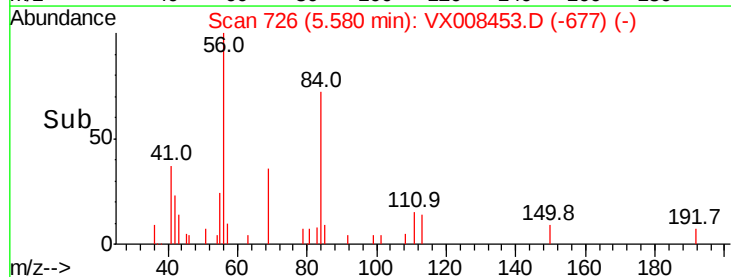
3000

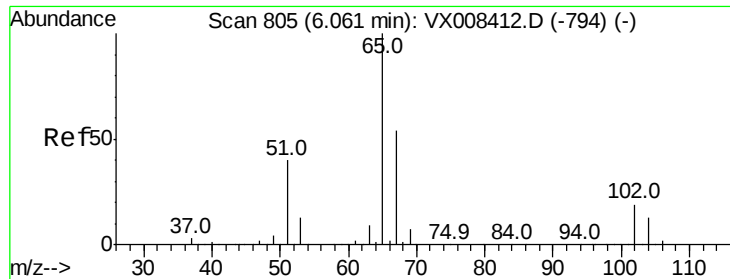
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1000

0

Time-->





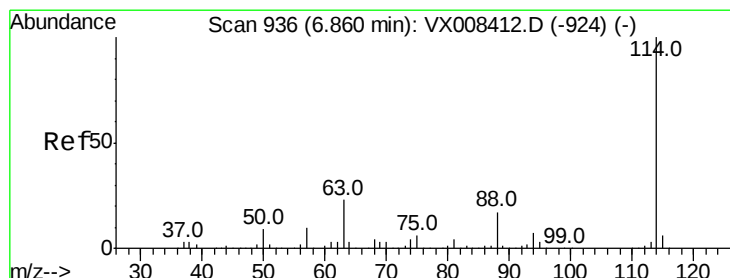
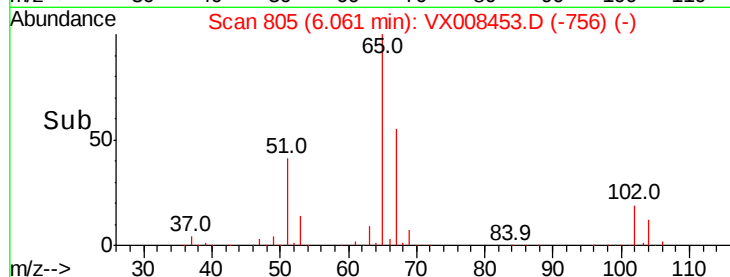
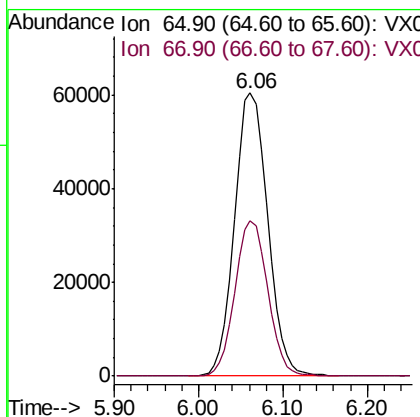
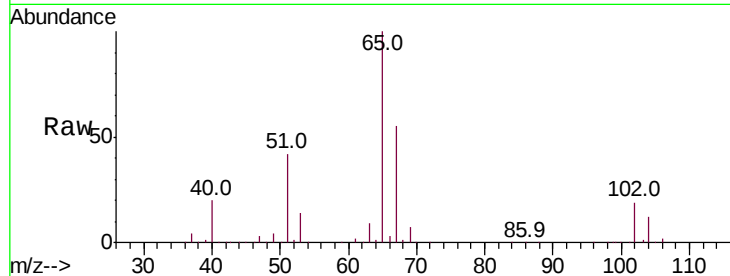
#33  
 1,2-Dichloroethane-d4  
 Concen: 46.444 ug/l  
 RT: 6.06 min Scan# 805  
 Delta R.T. 0.00 min  
 Lab File: VX008453.D  
 Acq: 26 Mar 2019 13:43

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-102

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 65      | 100   | 161296 |       |       |
| 67      | 54.4  | 0.0    | 109.4 |       |

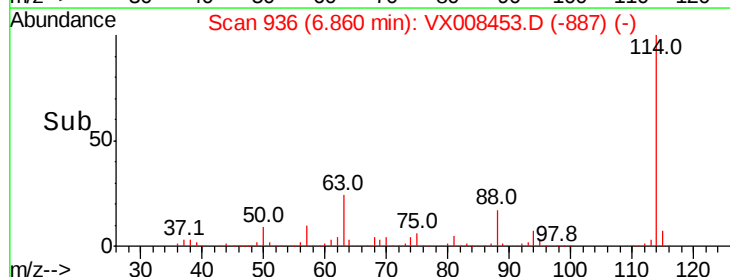
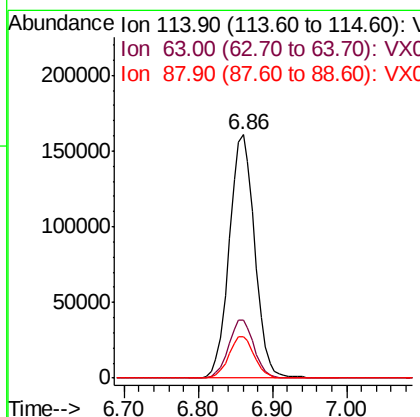
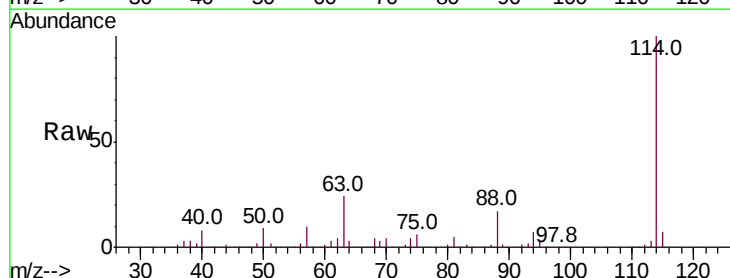
Manual Integrations  
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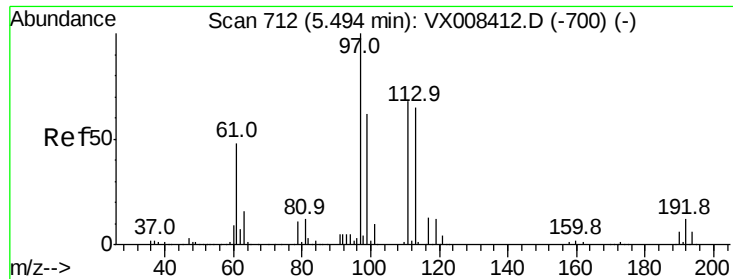
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#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.86 min Scan# 936  
 Delta R.T. 0.00 min  
 Lab File: VX008453.D  
 Acq: 26 Mar 2019 13:43

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 114     | 100   | 384037 |       |       |
| 63      | 23.9  | 0.0    | 46.4  |       |
| 88      | 16.8  | 0.0    | 33.2  |       |





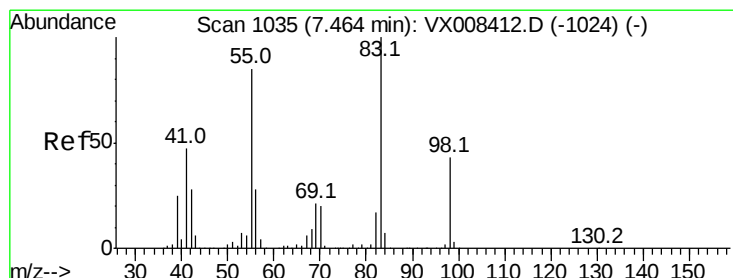
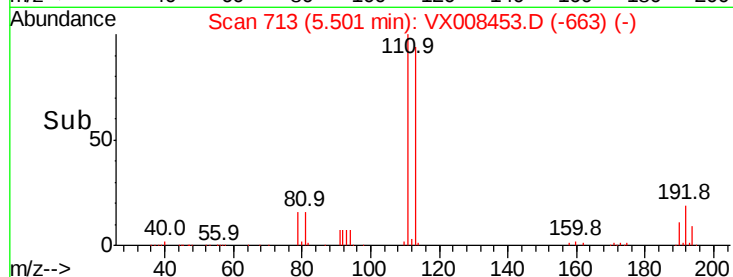
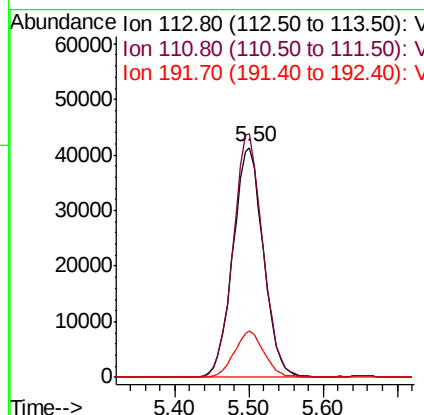
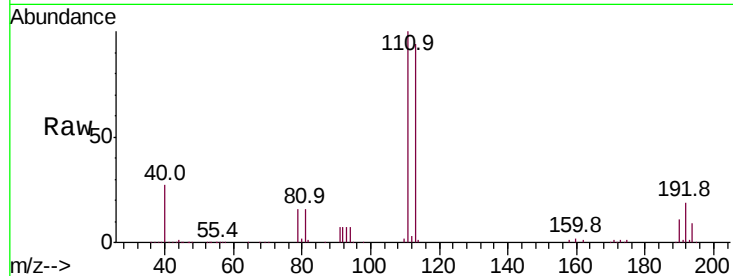
#35  
 Dibromofluoromethane  
 Concen: 47.418 ug/l  
 RT: 5.50 min Scan# 713  
 Delta R.T. 0.01 min  
 Lab File: VX008453.D  
 Acq: 26 Mar 2019 13:43

Instrument :  
 MSVOA\_X  
 ClientSampled :  
 MW-102

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 113     | 100   | 118740 |       |       |
| 111     | 103.8 | 83.0   | 124.4 |       |
| 192     | 19.6  | 15.6   | 23.4  |       |

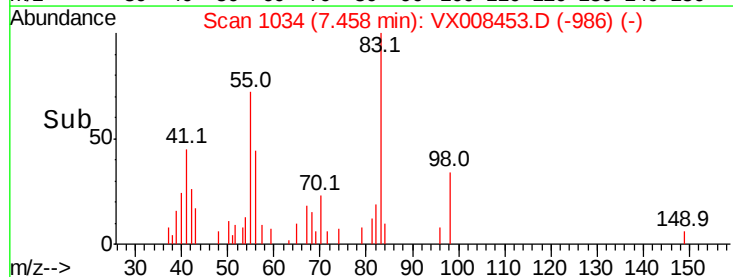
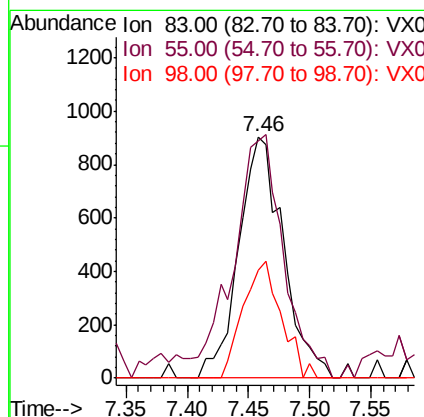
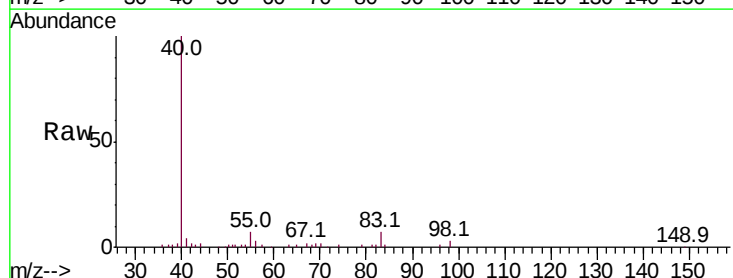
Manual Integrations  
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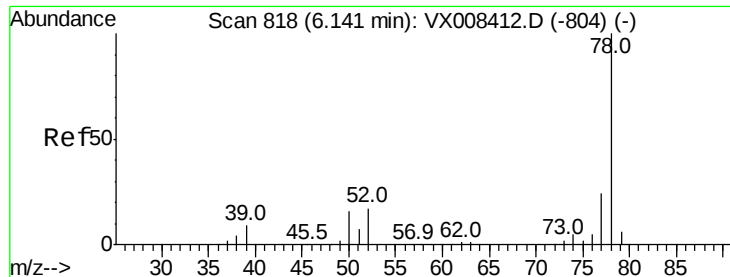
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 3/27/2019 10:40:55 AM



#39  
 Methylcyclohexane  
 Concen: 0.468 ug/l  
 RT: 7.46 min Scan# 1034  
 Delta R.T. -0.01 min  
 Lab File: VX008453.D  
 Acq: 26 Mar 2019 13:43

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 83      | 100   | 2290 |       |       |
| 55      | 98.2  | 68.2 | 102.4 |       |
| 98      | 44.5  | 34.2 | 51.4  |       |





#40

Benzene

Concen: 42.124 ug/l

RT: 6.14 min Scan# 818

Delta R.T. 0.00 min

Lab File: VX008453.D

Acq: 26 Mar 2019 13:43

Instrument :

MSVOA\_X

ClientSampleId :

MW-102

Tot Ion: 78 Resp: 516380

Ion Ratio Lower Upper

78 100

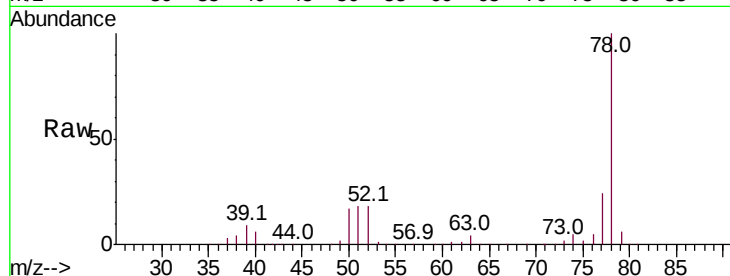
77 24.1 19.3 28.9

Manual Integrations

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Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0

6.14

200000

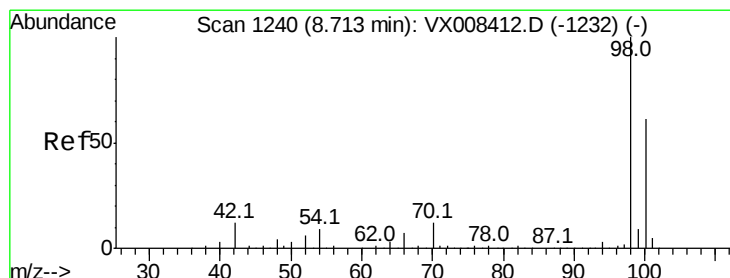
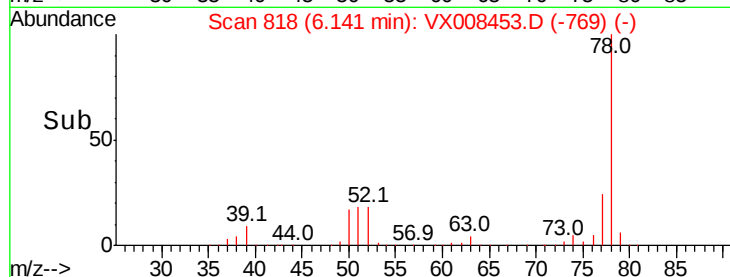
150000

100000

50000

0

Time-->



#50

Toluene-d8

Concen: 48.424 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX008453.D

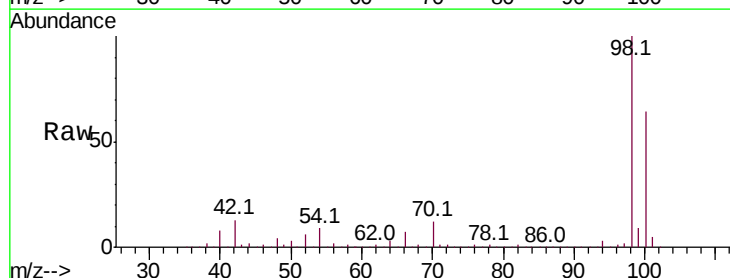
Acq: 26 Mar 2019 13:43

Tgt Ion: 98 Resp: 484866

Ion Ratio Lower Upper

98 100

100 63.7 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.71

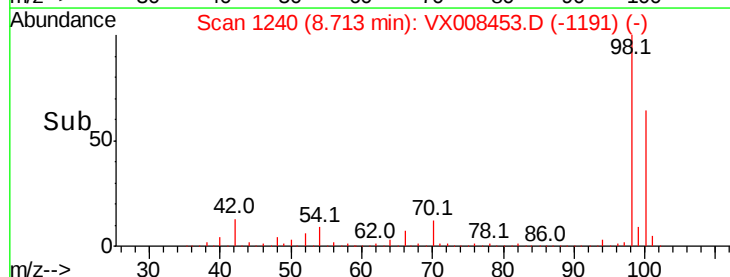
300000

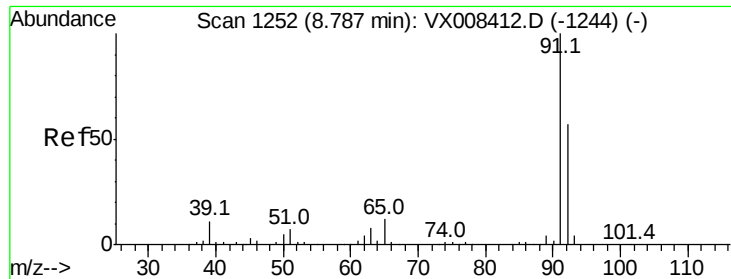
200000

100000

0

Time-->





#52

Toluene

Concen: 138.330 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. 0.00 min

Lab File: VX008453.D

Acq: 26 Mar 2019 13:43

Instrument :

MSVOA\_X

ClientSampleId :

MW-102

Tot Ion: 92 Resp: 1013914

Ion Ratio Lower Upper

92 100

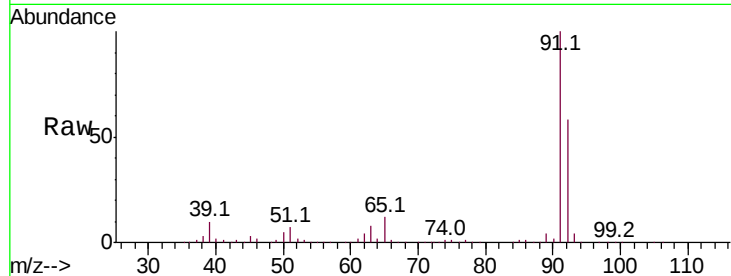
91 173.5 140.2 210.4

Manual Integrations

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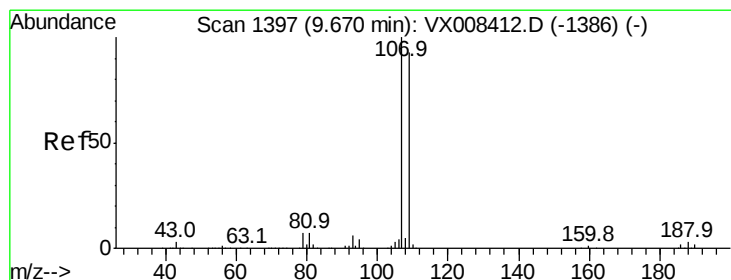
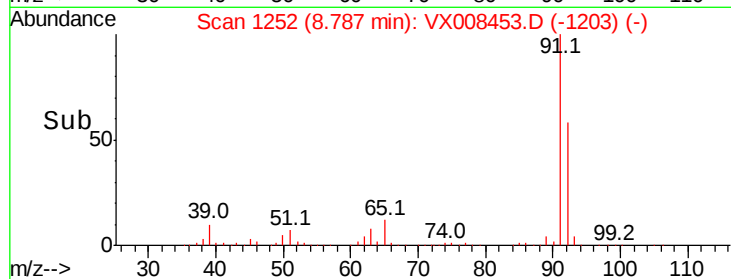
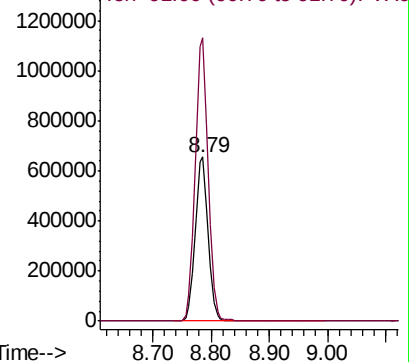
MMDadoda

3/27/2019 10:40:55 AM



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#61

1,2-Dibromoethane

Concen: 0.513 ug/l

RT: 9.67 min Scan# 1397

Delta R.T. 0.00 min

Lab File: VX008453.D

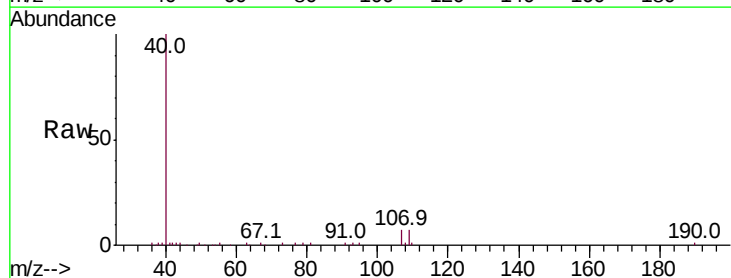
Acq: 26 Mar 2019 13:43

Tgt Ion:107 Resp: 1562

Ion Ratio Lower Upper

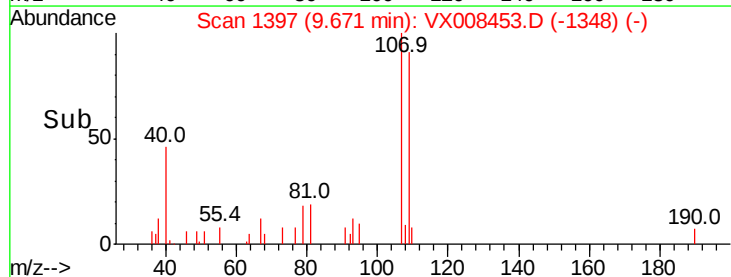
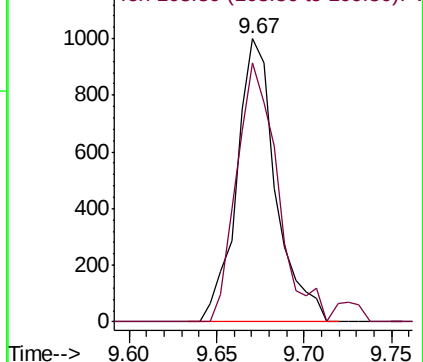
107 100

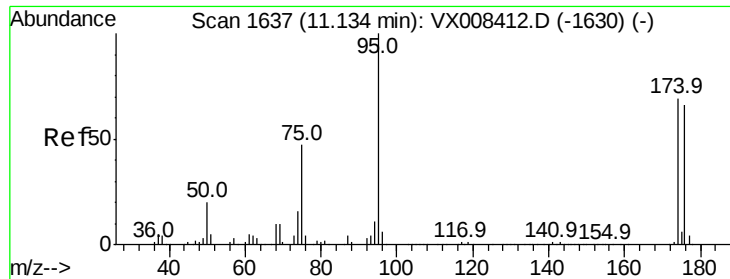
109 95.5 74.6 111.8



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V





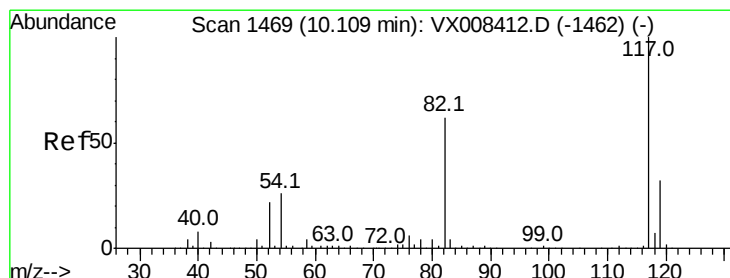
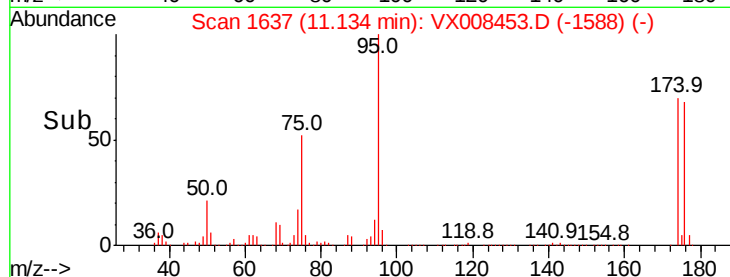
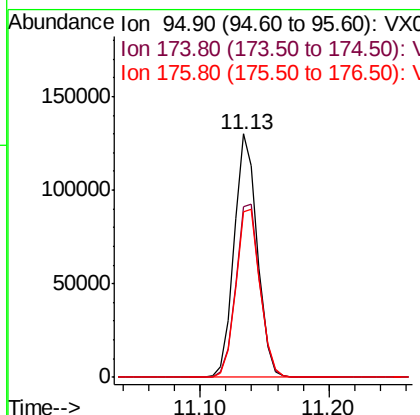
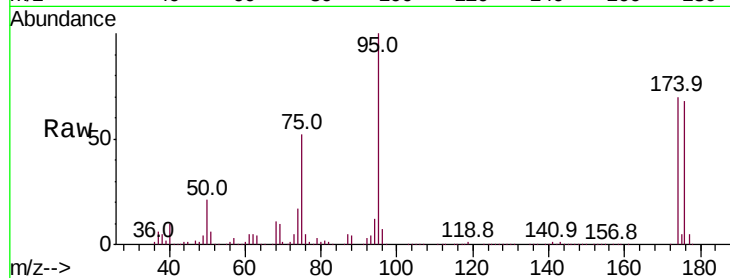
#62  
4-Bromofluorobenzene  
Concen: 43.874 ug/l  
RT: 11.13 min Scan# 1637  
Delta R.T. 0.00 min  
Lab File: VX008453.D  
Acq: 26 Mar 2019 13:43

Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-102

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 74.0  | 0.0   | 147.2 |
| 176     | 72.0  | 0.0   | 142.4 |

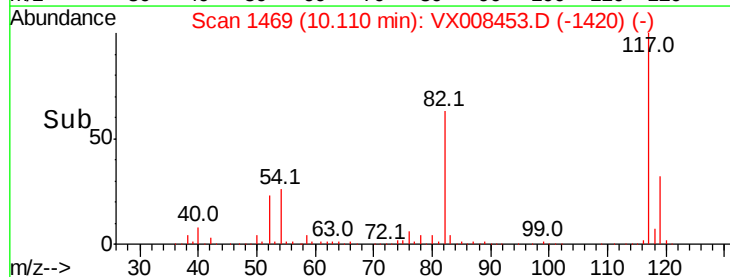
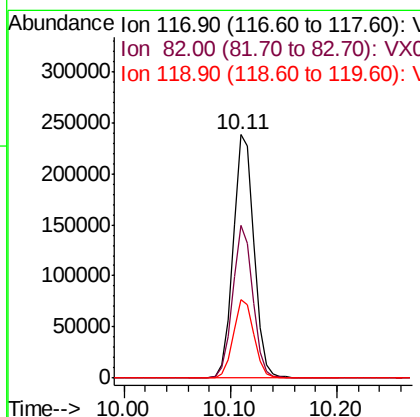
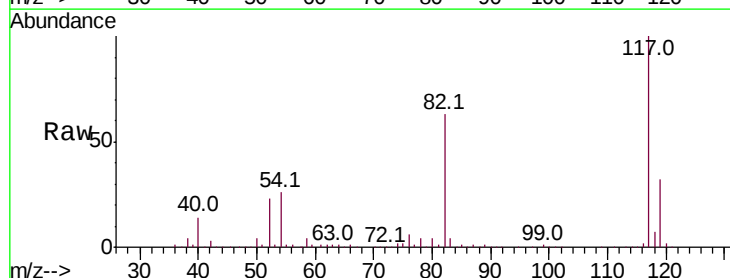
Manual Integrations  
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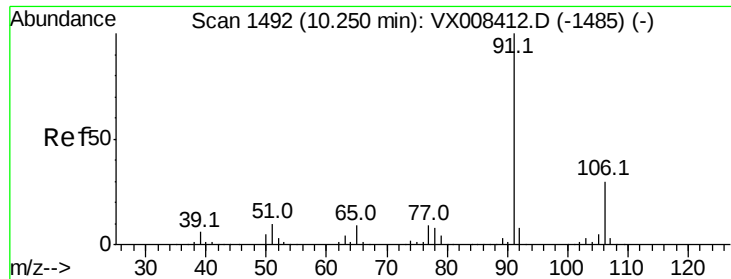
MMDadoda  
3/27/2019 10:40:55 AM



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. 0.00 min  
Lab File: VX008453.D  
Acq: 26 Mar 2019 13:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 62.5  | 49.4  | 74.2  |
| 119     | 32.1  | 25.4  | 38.0  |





#67

Ethyl Benzene

Concen: 8.372 ug/l

RT: 10.25 min Scan# 1492

Delta R.T. 0.00 min

Lab File: VX008453.D

Acq: 26 Mar 2019 13:43

Instrument :

MSVOA\_X

ClientSampleId :

MW-102

Tot Ion: 91 Resp: 112457

Ion Ratio Lower Upper

91 100

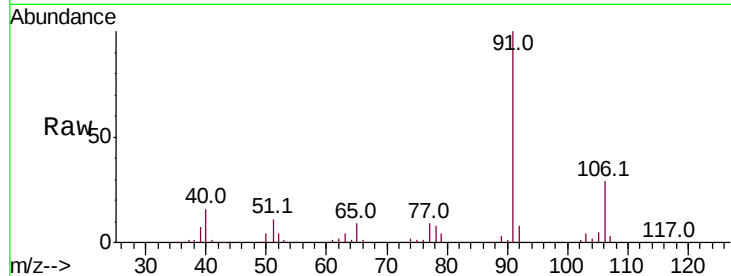
106 29.4 24.0 36.0

Manual Integrations

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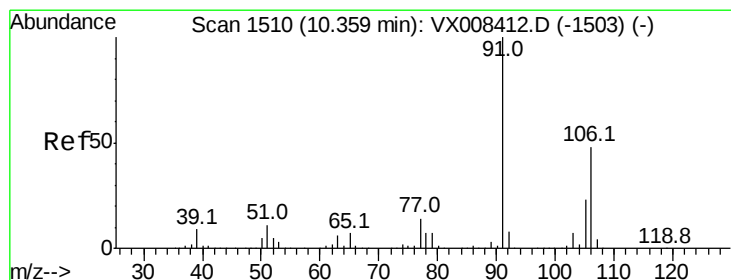
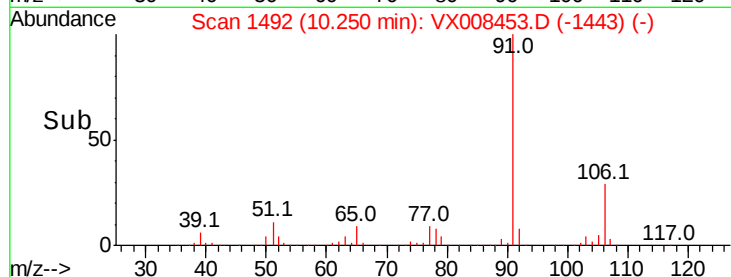
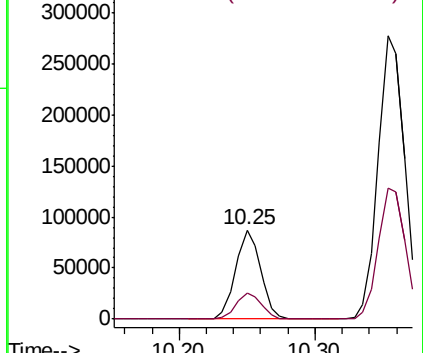
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Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 36.453 ug/l

RT: 10.35 min Scan# 1509

Delta R.T. -0.01 min

Lab File: VX008453.D

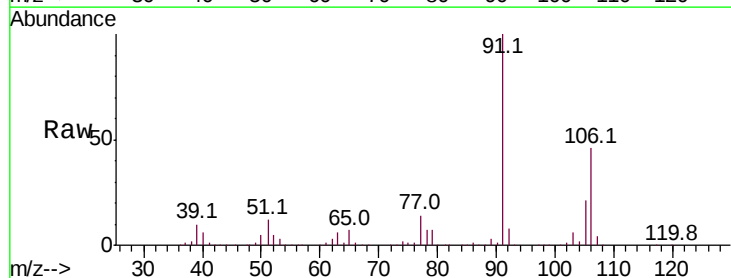
Acq: 26 Mar 2019 13:43

Tgt Ion: 106 Resp: 178135

Ion Ratio Lower Upper

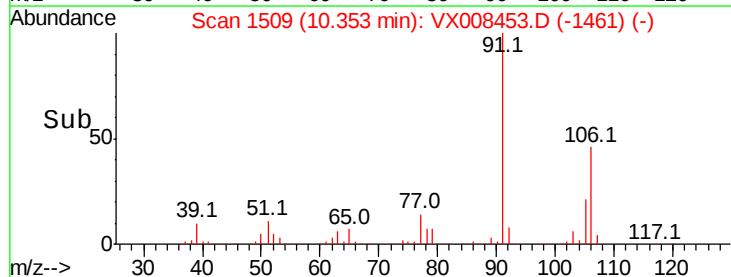
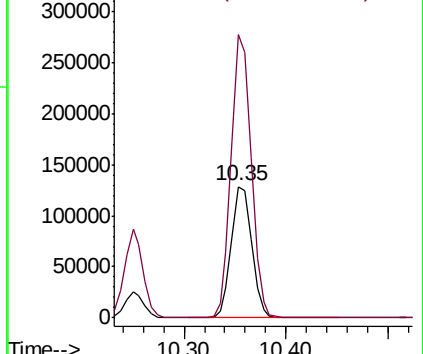
106 100

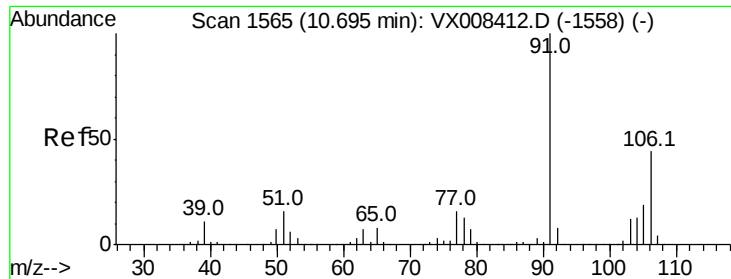
91 211.3 168.6 253.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0





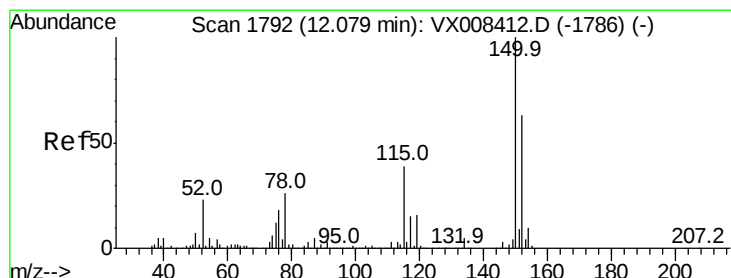
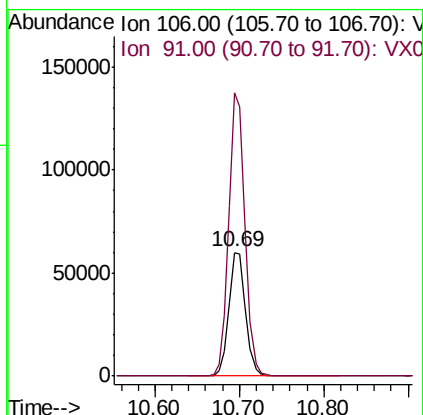
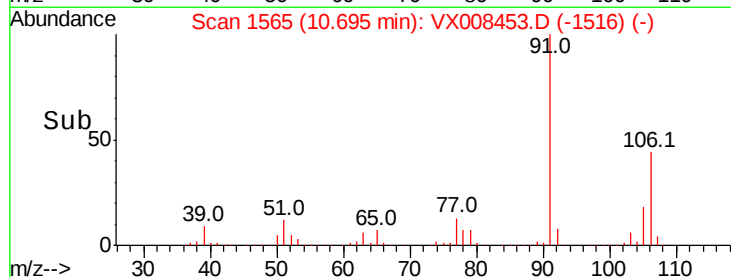
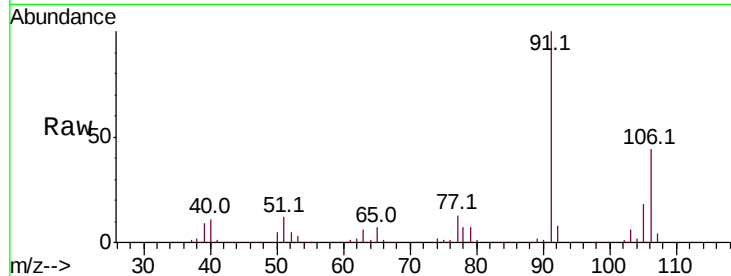
#69  
o-Xylene  
Concen: 17.187 ug/l  
RT: 10.69 min Scan# 1565  
Delta R.T. 0.00 min  
Lab File: VX008453.D  
Acq: 26 Mar 2019 13:43

Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-102

Tot Ion:106 Resp: 81506  
Ion Ratio Lower Upper  
106 100  
91 223.9 111.4 334.2

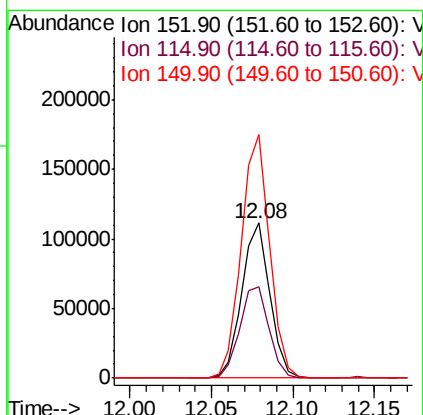
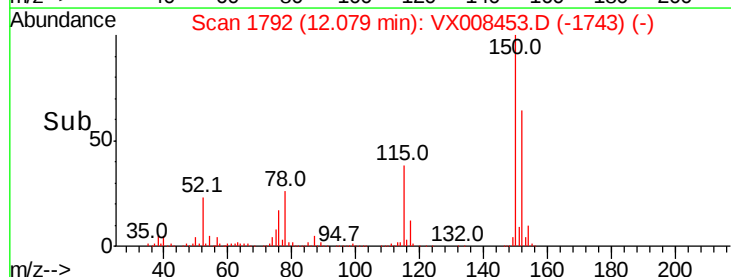
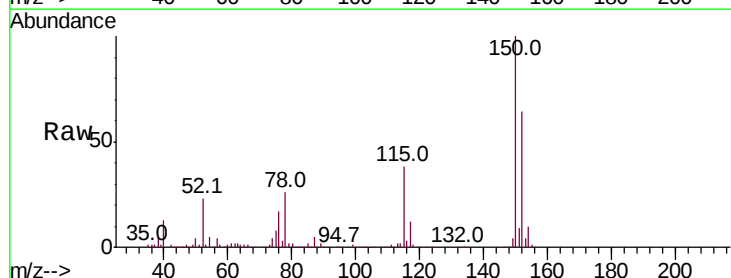
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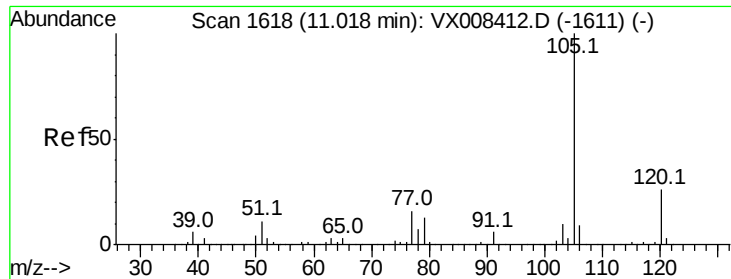
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3/27/2019 10:40:55 AM



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. 0.00 min  
Lab File: VX008453.D  
Acq: 26 Mar 2019 13:43

Tgt Ion:152 Resp: 133985  
Ion Ratio Lower Upper  
152 100  
115 61.7 43.5 130.5  
150 158.4 0.0 348.8





#73

Isopropylbenzene

Concen: 0.422 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. 0.00 min

Lab File: VX008453.D

Acq: 26 Mar 2019 13:43

Instrument :

MSVOA\_X

ClientSampleId :

MW-102

Tot Ion: 105 Resp: 4595

Ion Ratio Lower Upper

105 100

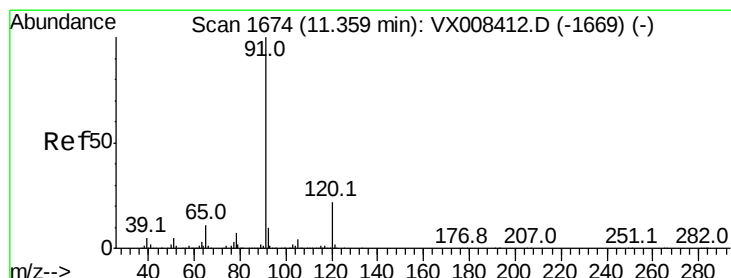
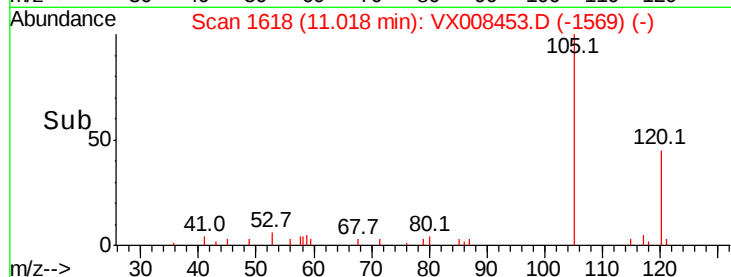
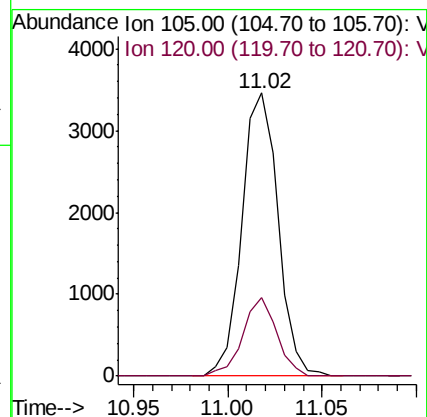
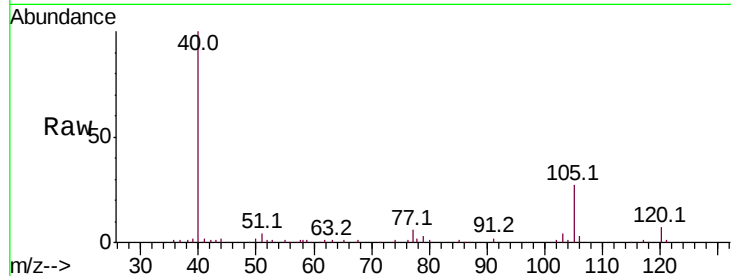
120 26.1 12.9 38.7

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#78

n-propylbenzene

Concen: 0.965 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. 0.00 min

Lab File: VX008453.D

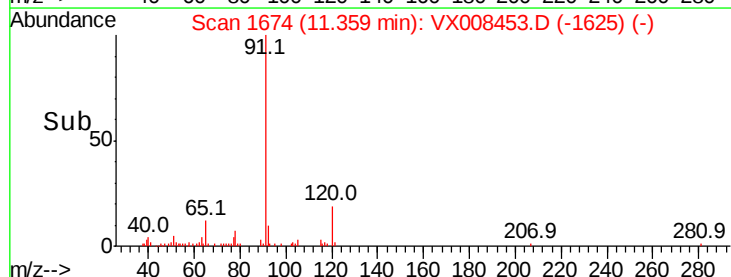
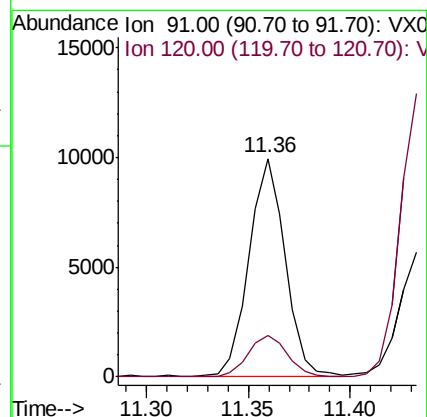
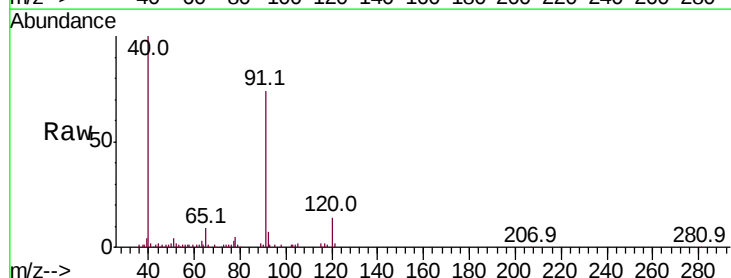
Acq: 26 Mar 2019 13:43

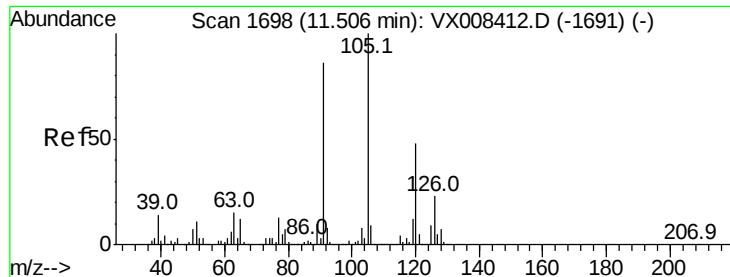
Tgt Ion: 91 Resp: 12322

Ion Ratio Lower Upper

91 100

120 20.4 10.8 32.4





#80

1,3,5-Trimethylbenzene

Concen: 2.340 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VX008453.D

Acq: 26 Mar 2019 13:43

Instrument :

MSVOA\_X

ClientSampled :

MW-102

Tot Ion:105 Resp: 21561

Ion Ratio Lower Upper

105 100

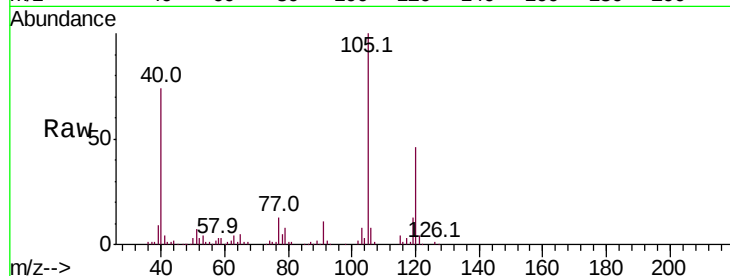
120 48.1 23.4 70.3

Manual Integrations

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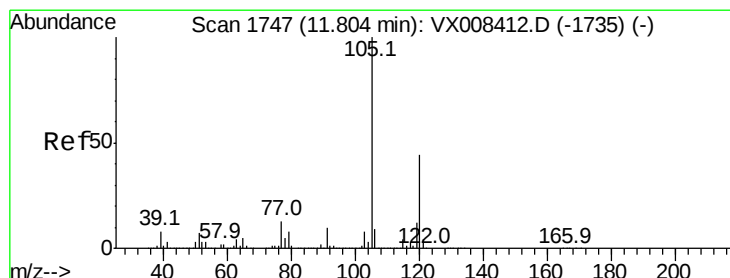
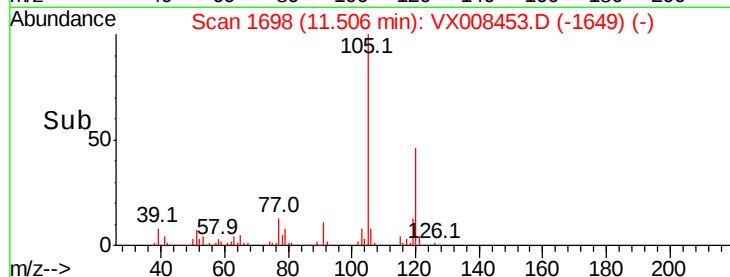
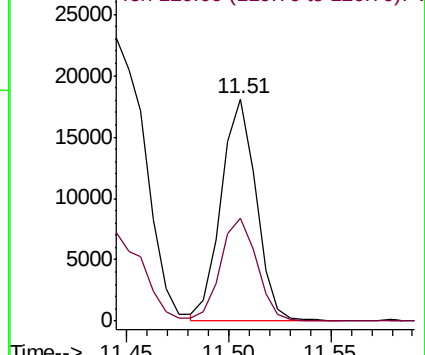
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#84

1,2,4-Trimethylbenzene

Concen: 8.705 ug/l

RT: 11.80 min Scan# 1747

Delta R.T. 0.00 min

Lab File: VX008453.D

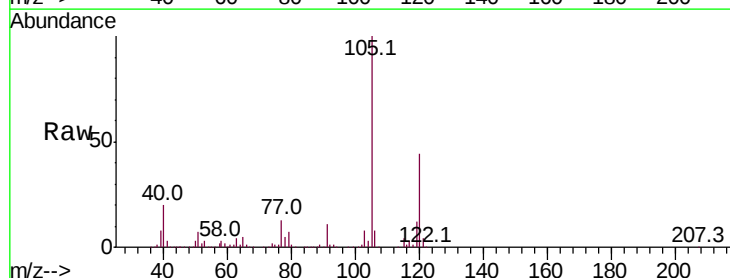
Acq: 26 Mar 2019 13:43

Tgt Ion:105 Resp: 81137

Ion Ratio Lower Upper

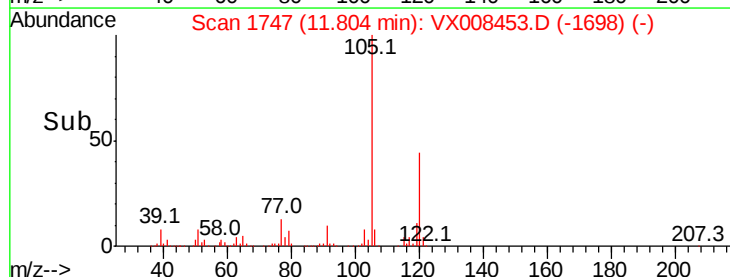
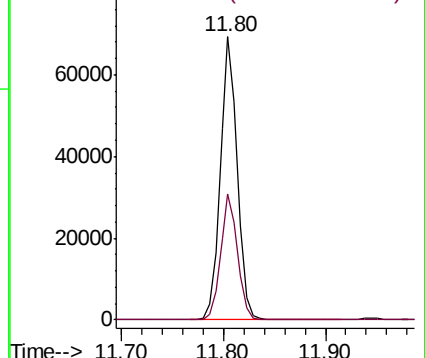
105 100

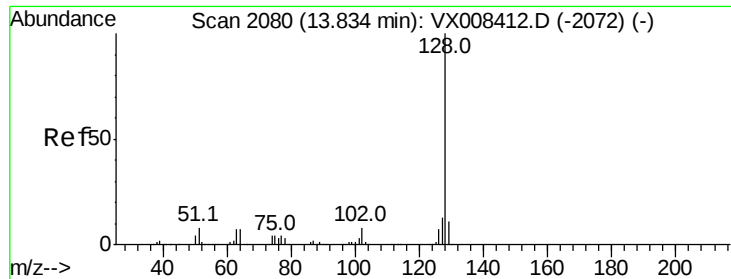
120 44.2 21.6 65.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#95  
Naphthalene  
Concen: 2.056 ug/l  
RT: 13.83 min Scan# 2080  
Delta R.T. 0.00 min  
Lab File: VX008453.D  
Acq: 26 Mar 2019 13:43

Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-102

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 12.9  | 10.4  | 15.6  |
| 129     | 12.1  | 8.7   | 13.1  |

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3/27/2019 10:40:55 AM

