

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU090719\  
 Data File : VU034358.D  
 Acq On : 07 Sep 2019 02:37  
 Operator : JC/SP  
 Sample : K4725-04  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 47 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 S13-0266

Manual Integrations  
 APPROVED

MMDadoda  
 9/10/2019 1:31:07 PM

Quant Time: Sep 07 05:45:17 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U090619W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 06 05:10:13 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc    | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|---------|---------|----------|
| 1) Pentafluorobenzene       | 4.96  | 168  | 302437   | 50.00   | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 5.87  | 114  | 447565   | 50.00   | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 9.07  | 117  | 435516   | 50.00   | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 11.46 | 152  | 279140   | 50.00   | ug/l    | 0.00     |
| System Monitoring Compounds |       |      |          |         |         |          |
| 33) 1,2-Dichloroethane-d4   | 5.29  | 65   | 210088   | 45.91   | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =       | 91.82%  |          |
| 35) Dibromofluoromethane    | 4.86  | 113  | 196240   | 47.12   | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =       | 94.24%  |          |
| 50) Toluene-d8              | 7.55  | 98   | 818003   | 52.28   | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =       | 104.56% |          |
| 62) 4-Bromofluorobenzene    | 10.29 | 95   | 275679   | 45.63   | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =       | 91.26%  |          |
| Target Compounds            |       |      |          |         |         |          |
|                             |       |      |          |         | Qvalue  |          |
| 31) Cyclohexane             | 4.98  | 56   | 2254893  | 420.697 | ug/l    | 98       |
| 39) Methylcyclohexane       | 6.40  | 83   | 3977871  | 766.626 | ug/l    | 97       |
| 40) Benzene                 | 5.38  | 78   | 4288     | 0.274   | ug/l #  | 88       |
| 73) Isopropylbenzene        | 10.14 | 105  | 659272   | 36.292  | ug/l    | 100      |
| 78) n-propylbenzene         | 10.57 | 91   | 763832   | 36.408  | ug/l    | 100      |
| 83) tert-Butylbenzene       | 11.08 | 119  | 45769    | 3.011   | ug/l    | 93       |
| 85) sec-Butylbenzene        | 11.30 | 105  | 348364   | 19.415  | ug/l    | 99       |
| 89) n-Butylbenzene          | 11.87 | 91   | 70655m   | 4.909   | ug/l    |          |
| 95) Naphthalene             | 13.72 | 128  | 435281   | 25.507  | ug/l    | 98       |

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

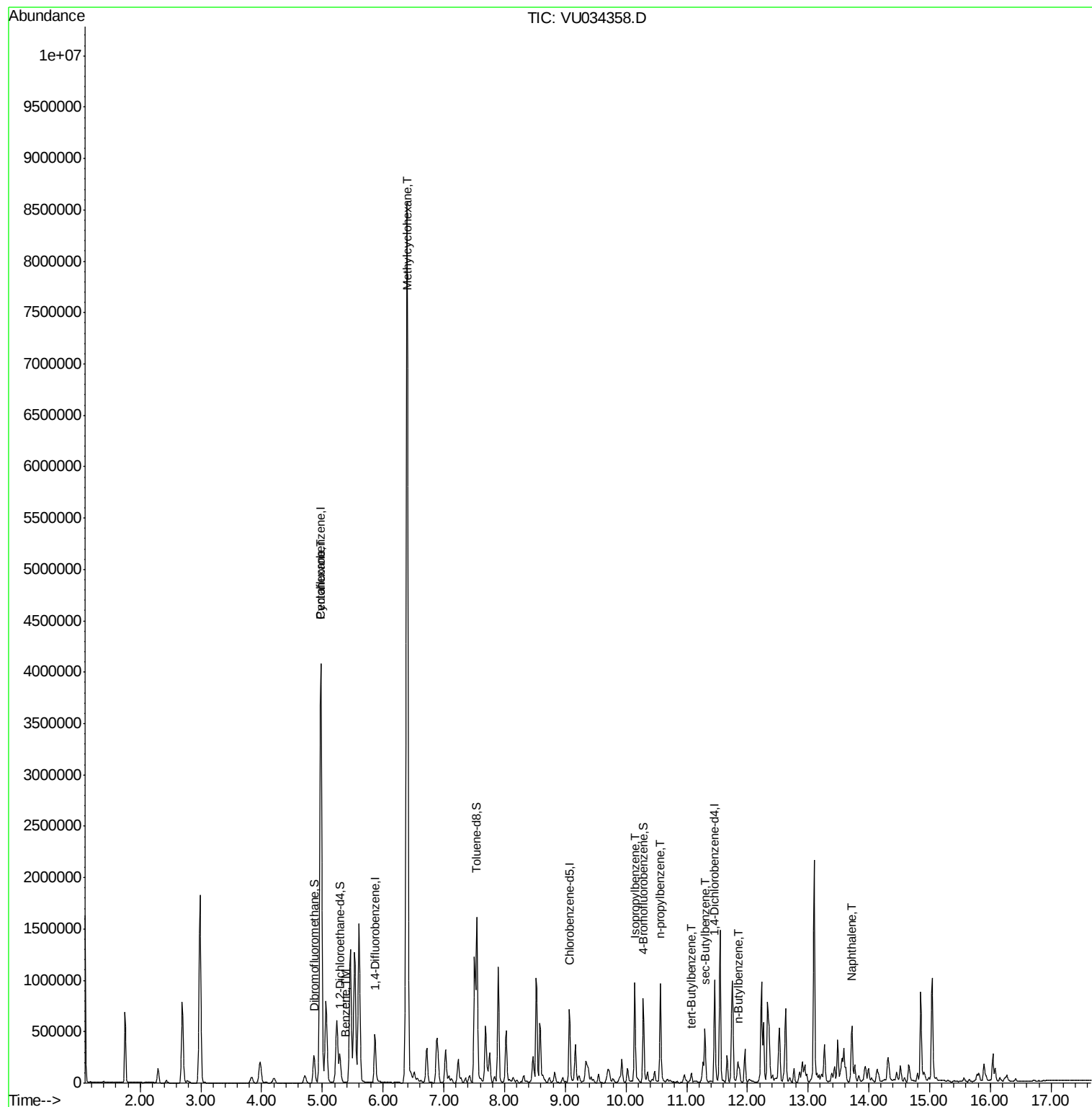
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU090719\  
Data File : VU034358.D  
Acq On : 07 Sep 2019 02:37  
Operator : JC/SP  
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Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 47 Sample Multiplier: 1

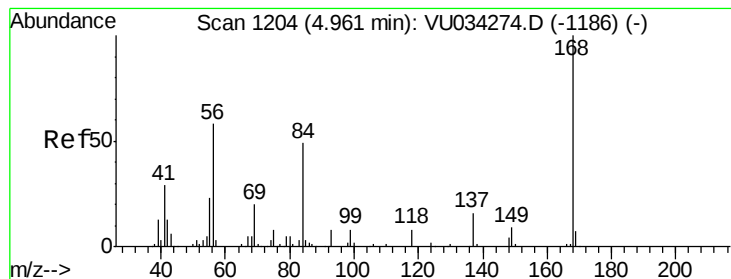
Instrument :  
MSVOA\_U  
ClientSampleId :  
S13-0266

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Quant Time: Sep 07 05:45:17 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\82U090619W.M  
Quant Title : SW846 8260  
QLast Update : Fri Sep 06 05:10:13 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. 0.00 min

Lab File: VU034358.D

Acq: 07 Sep 2019 02:37

Instrument :

MSVOA\_U

ClientSampleId :

S13-0266

Tot Ion:168 Resp: 302437

Ion Ratio Lower Upper

168 100

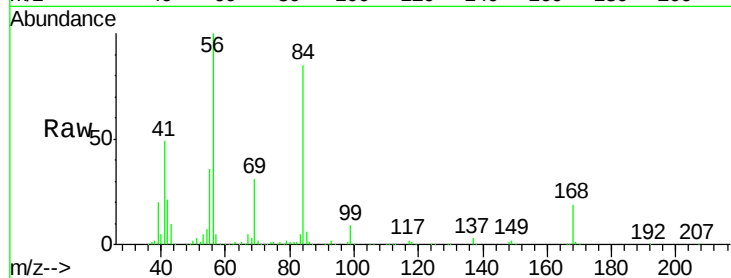
99 48.7 41.6 62.4

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): VU034274.D (-1186) (-)

Ion 98.90 (98.60 to 99.60): VU034274.D (-1186) (-)

4.96

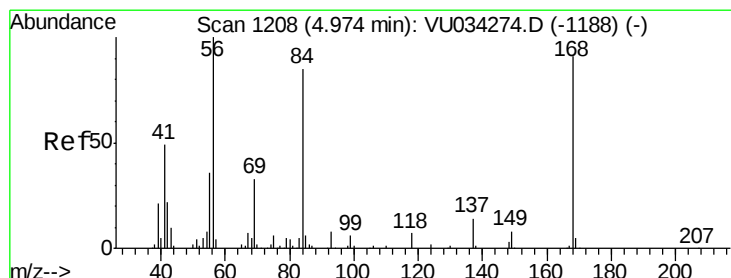
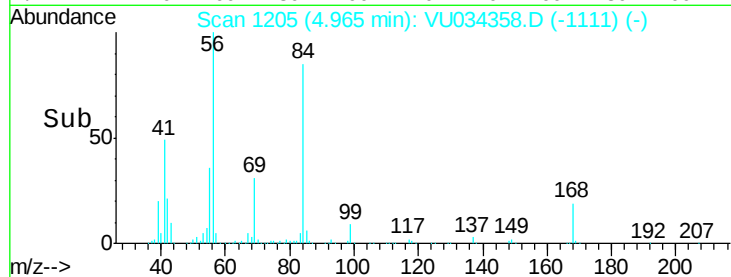
150000

100000

50000

0

Time-->



#31

Cyclohexane

Concen: 420.697 ug/l

RT: 4.98 min Scan# 1209

Delta R.T. 0.00 min

Lab File: VU034358.D

Acq: 07 Sep 2019 02:37

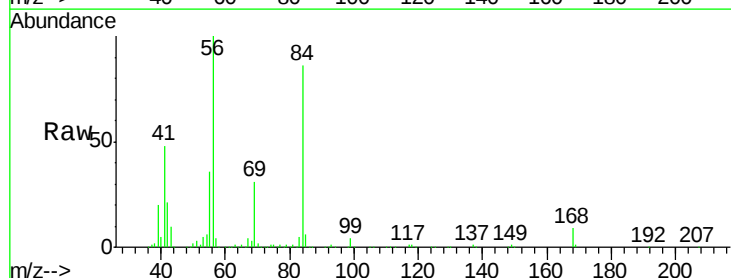
Tgt Ion: 56 Resp: 2254893

Ion Ratio Lower Upper

56 100

69 30.9 26.7 40.1

84 86.3 68.2 102.4



Abundance Ion 56.00 (55.70 to 56.70): VU034274.D (-1188) (-)

Ion 69.00 (68.70 to 69.70): VU034274.D (-1188) (-)

Ion 84.00 (83.70 to 84.70): VU034274.D (-1188) (-)

4.98

1200000

1000000

800000

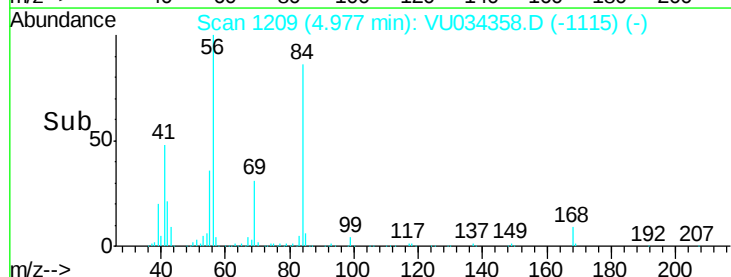
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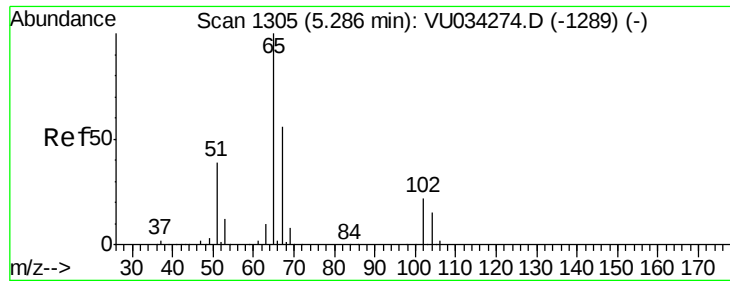
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200000

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Time-->





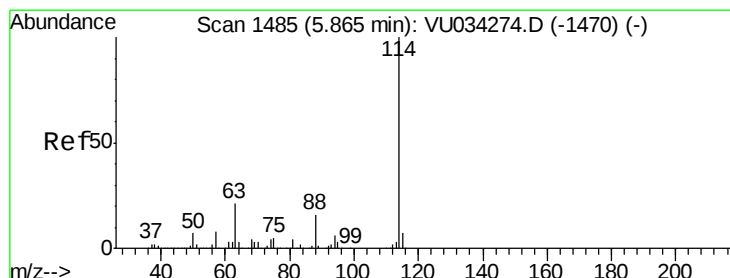
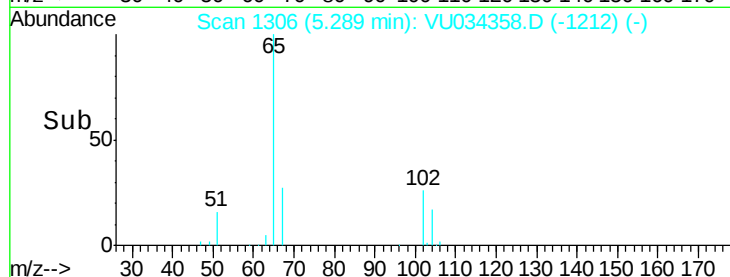
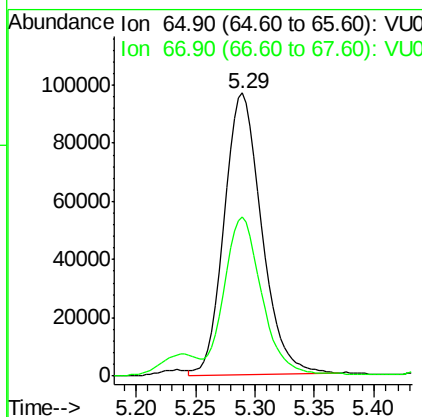
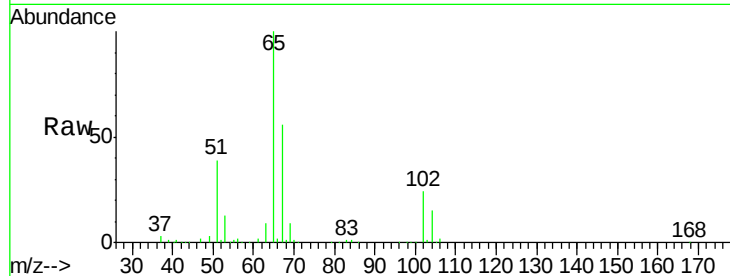
#33  
 1,2-Dichloroethane-d4  
 Concen: 45.911 ug/l  
 RT: 5.29 min Scan# 1306  
 Delta R.T. 0.00 min  
 Lab File: VU034358.D  
 Acq: 07 Sep 2019 02:37

Instrument :  
 MSVOA\_U  
 ClientSampled :  
 S13-0266

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 65      | 100   | 210088 |       |       |
| 67      | 55.3  | 0.0    | 112.4 |       |

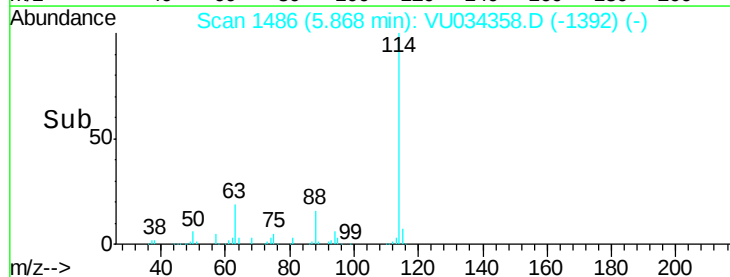
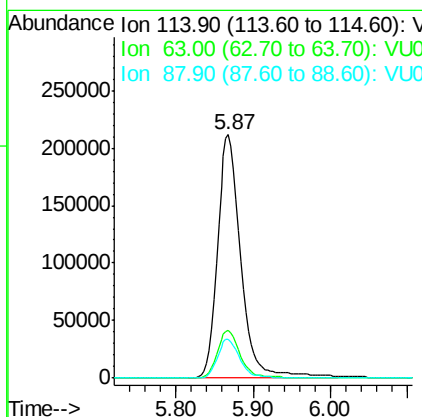
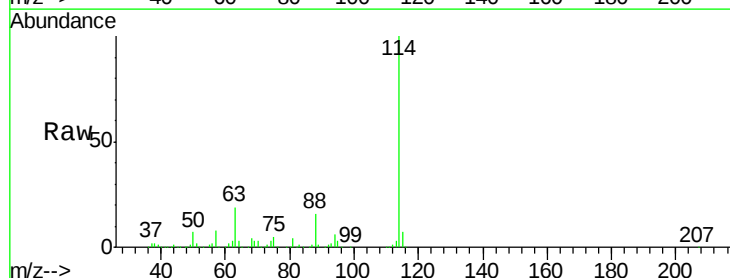
Manual Integrations  
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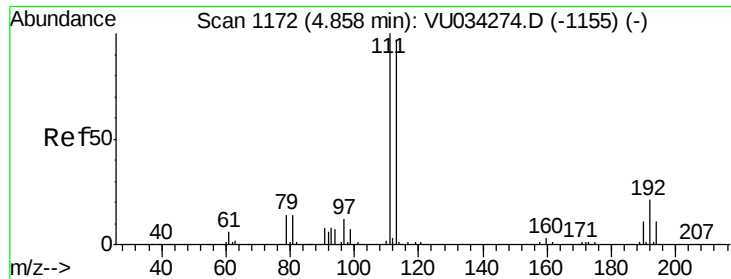
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#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.87 min Scan# 1486  
 Delta R.T. 0.00 min  
 Lab File: VU034358.D  
 Acq: 07 Sep 2019 02:37

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 114     | 100   | 447565 |       |       |
| 63      | 19.4  | 0.0    | 42.4  |       |
| 88      | 15.9  | 0.0    | 32.4  |       |





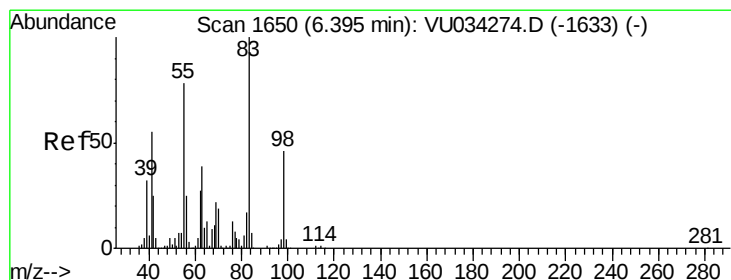
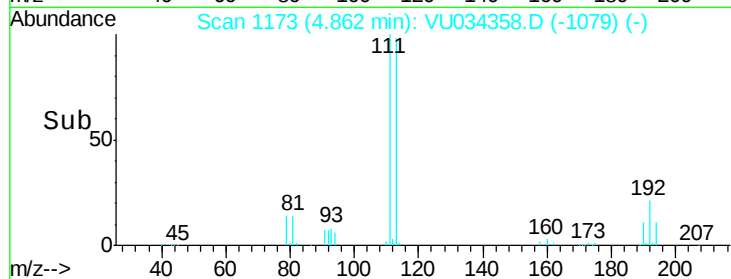
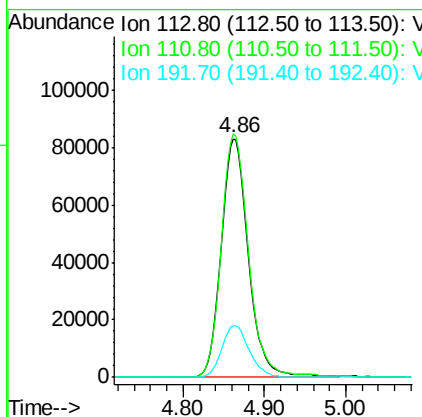
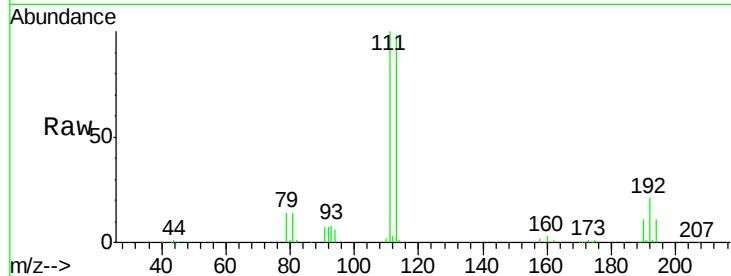
#35  
 Dibromofluoromethane  
 Concen: 47.121 ug/l  
 RT: 4.86 min Scan# 1173  
 Delta R.T. 0.00 min  
 Lab File: VU034358.D  
 Acq: 07 Sep 2019 02:37

Instrument :  
 MSVOA\_U  
 ClientSampled :  
 S13-0266

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 113     | 100   | 196240 |       |       |
| 111     | 102.4 | 81.5   | 122.3 |       |
| 192     | 21.8  | 17.8   | 26.8  |       |

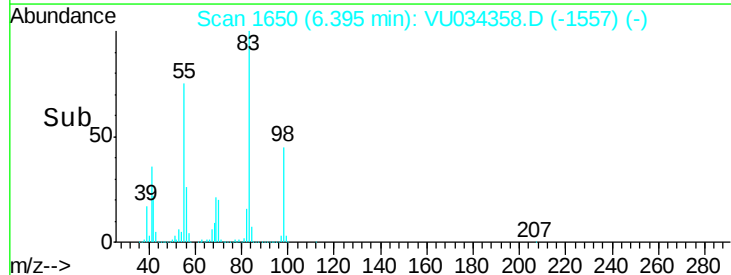
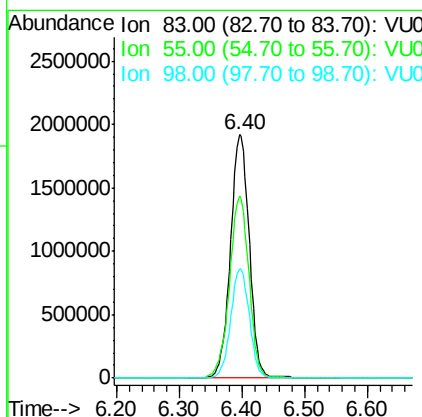
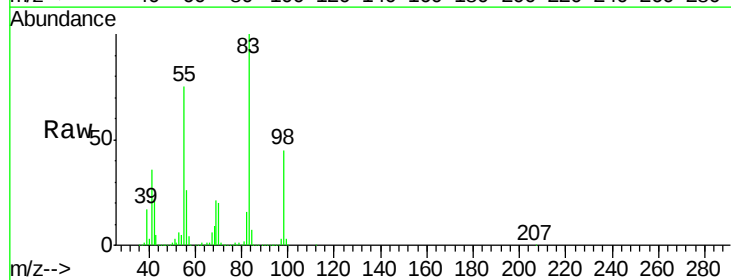
Manual Integrations  
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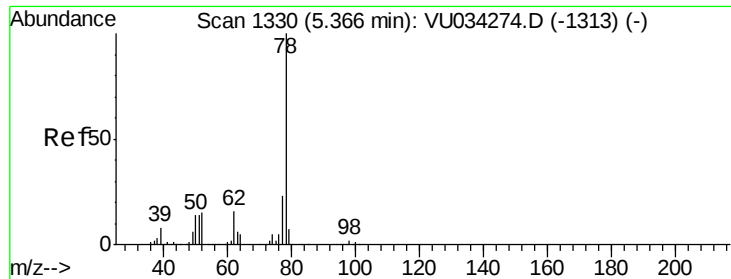
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#39  
 Methylcyclohexane  
 Concen: 766.626 ug/l  
 RT: 6.40 min Scan# 1650  
 Delta R.T. 0.00 min  
 Lab File: VU034358.D  
 Acq: 07 Sep 2019 02:37

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 83      | 100   | 3977871 |       |       |
| 55      | 74.7  | 62.1    | 93.1  |       |
| 98      | 44.9  | 37.0    | 55.6  |       |





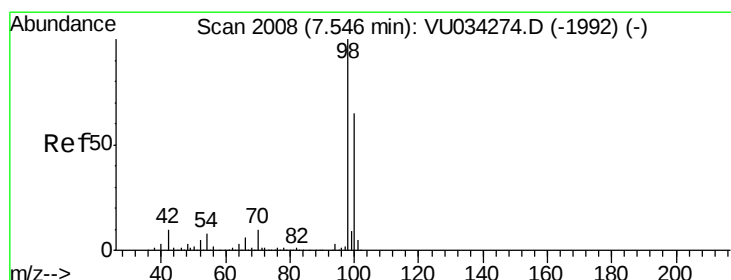
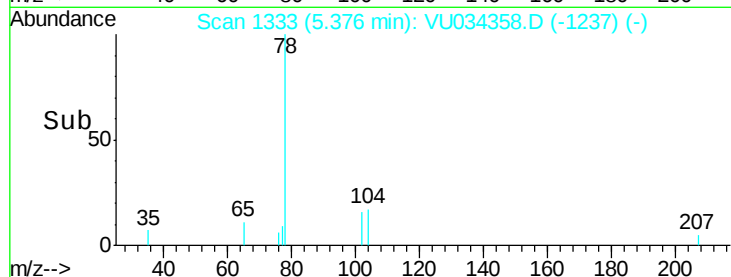
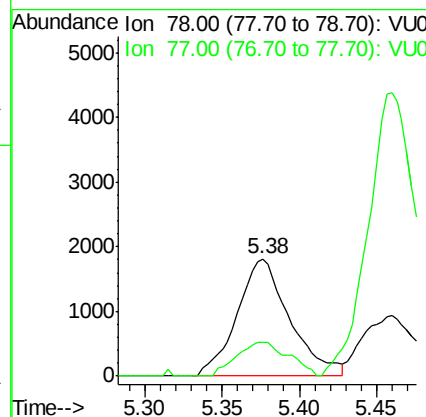
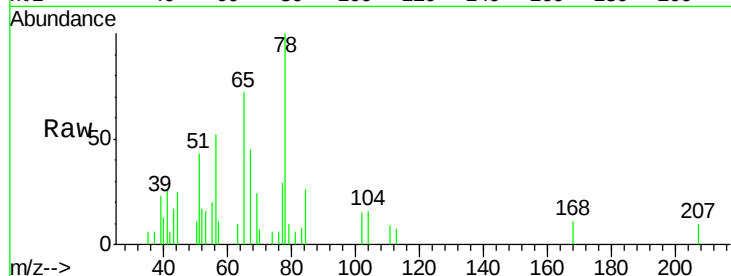
#40  
Benzene  
Concen: 0.274 ug/l  
RT: 5.38 min Scan# 1333  
Delta R.T. 0.01 min  
Lab File: VU034358.D  
Acq: 07 Sep 2019 02:37

Instrument :  
MSVOA\_U  
ClientSampleId :  
S13-0266

Tot Ion: 78 Resp: 4288  
Ion Ratio Lower Upper  
78 100  
77 29.3 18.7 28.1#

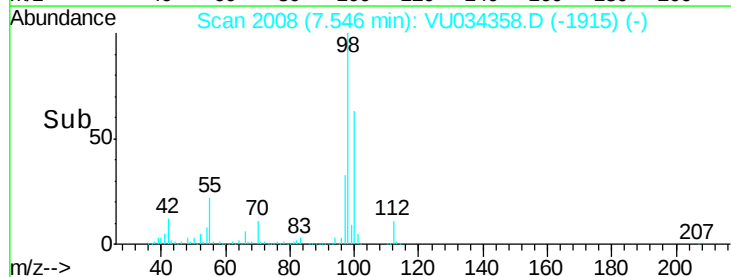
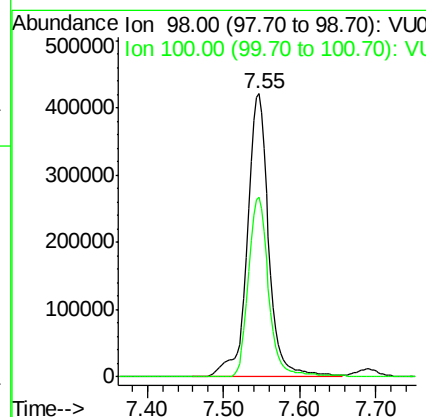
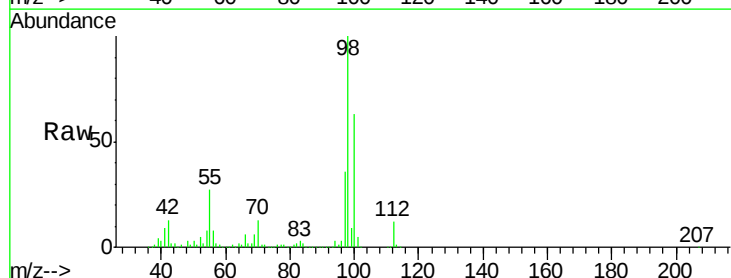
Manual Integrations  
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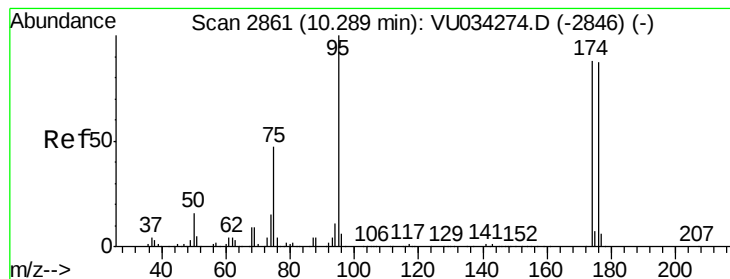
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#50  
Toluene-d8  
Concen: 52.280 ug/l  
RT: 7.55 min Scan# 2008  
Delta R.T. 0.00 min  
Lab File: VU034358.D  
Acq: 07 Sep 2019 02:37

Tgt Ion: 98 Resp: 818003  
Ion Ratio Lower Upper  
98 100  
100 60.4 51.7 77.5





#62

4-Bromofluorobenzene

Concen: 45.635 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.00 min

Lab File: VU034358.D

Acq: 07 Sep 2019 02:37

Instrument :

MSVOA\_U

ClientSampled :

S13-0266

Tot Ion: 95 Resp: 275679

Ion Ratio Lower Upper

95 100

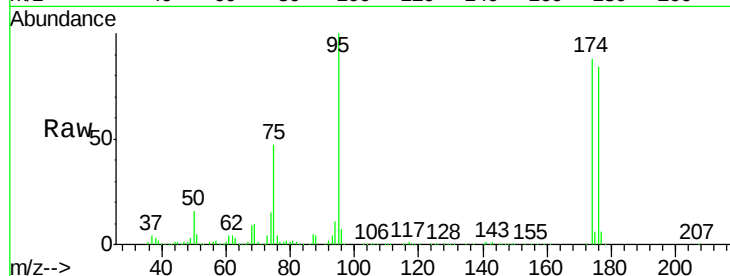
174 89.8 0.0 175.2

176 86.5 0.0 168.0

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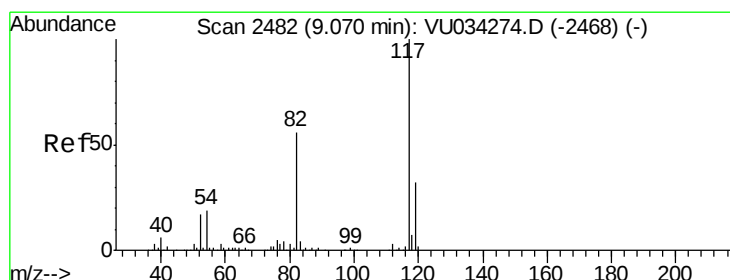
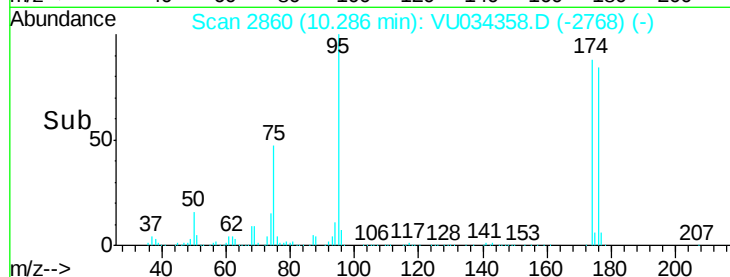
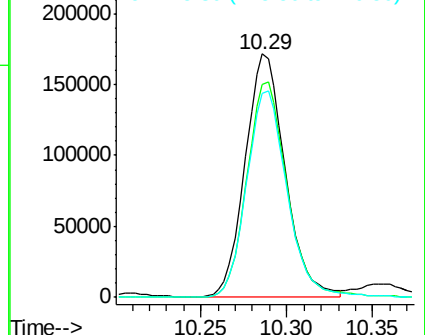
9/10/2019 1:31:07 PM



Abundance Ion 94.90 (94.60 to 95.60): VU034274.D (-2846) (-)

Ion 173.80 (173.50 to 174.50): VU034274.D (-2846) (-)

Ion 175.80 (175.50 to 176.50): VU034274.D (-2846) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.07 min Scan# 2482

Delta R.T. 0.00 min

Lab File: VU034358.D

Acq: 07 Sep 2019 02:37

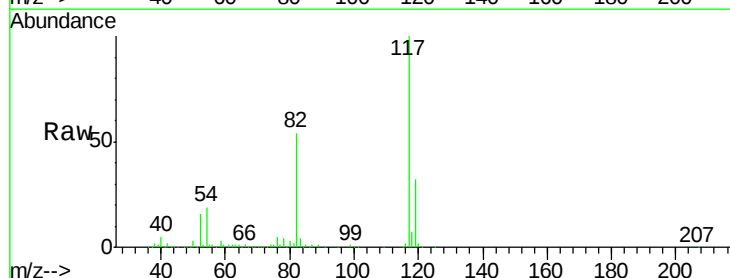
Tgt Ion: 117 Resp: 435516

Ion Ratio Lower Upper

117 100

82 53.6 44.6 67.0

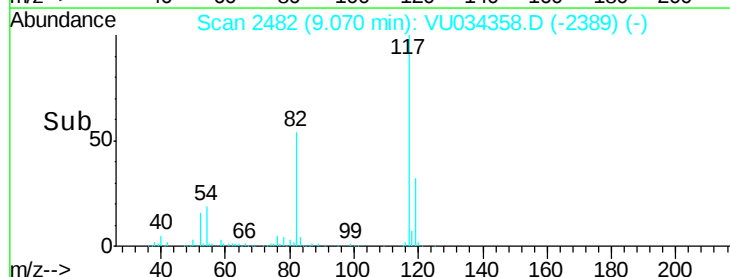
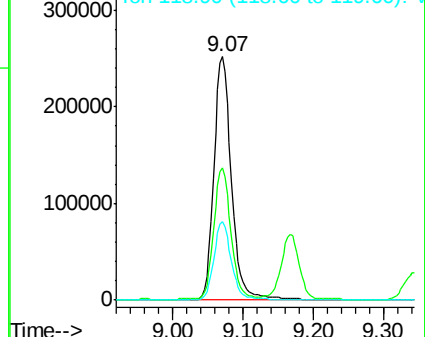
119 32.0 25.9 38.9

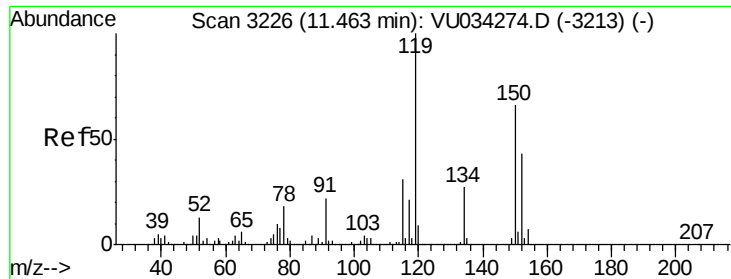


Abundance Ion 116.90 (116.60 to 117.60): VU034274.D (-2468) (-)

Ion 82.00 (81.70 to 82.70): VU034274.D (-2468) (-)

Ion 118.90 (118.60 to 119.60): VU034274.D (-2468) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.46 min Scan# 3226

Delta R.T. 0.00 min

Lab File: VU034358.D

Acq: 07 Sep 2019 02:37

Instrument :

MSVOA\_U

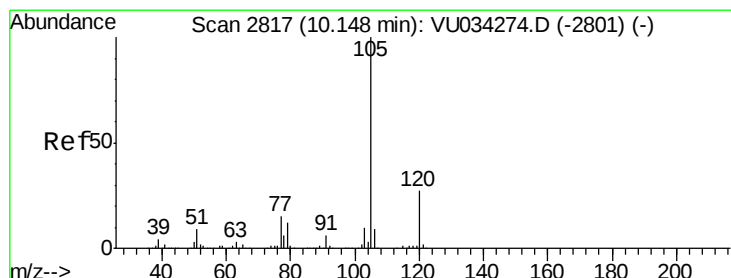
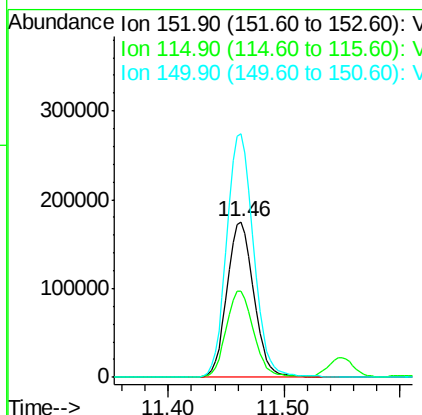
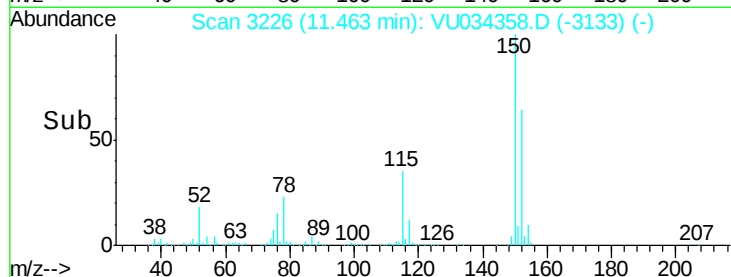
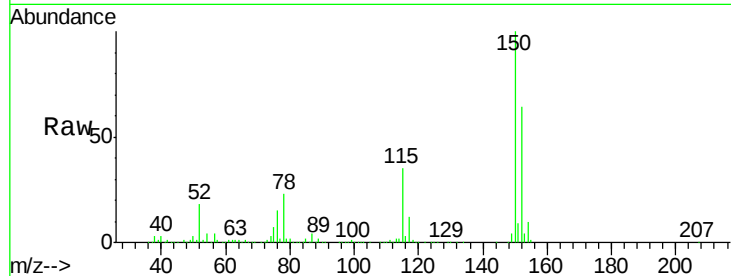
ClientSampleId :

S13-0266

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 152     | 100   | 279140 |       |       |
| 115     | 55.9  | 39.1   | 117.3 |       |
| 150     | 157.5 | 0.0    | 345.4 |       |

Manual Integrations  
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#73

Isopropylbenzene

Concen: 36.292 ug/l

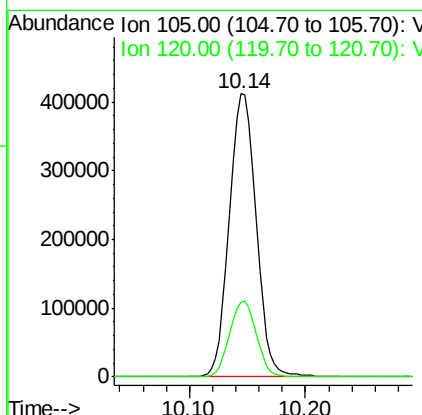
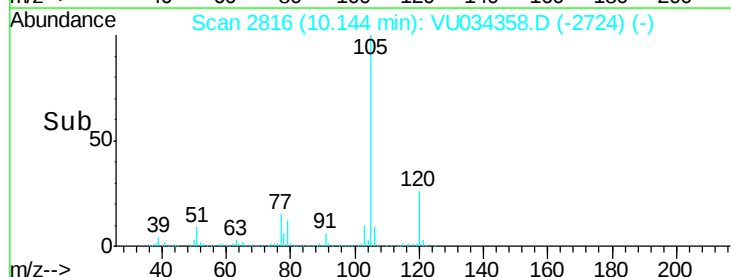
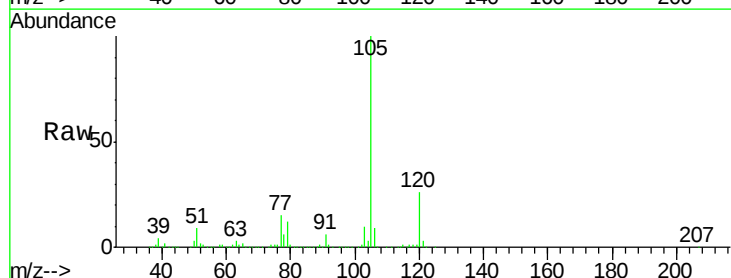
RT: 10.14 min Scan# 2816

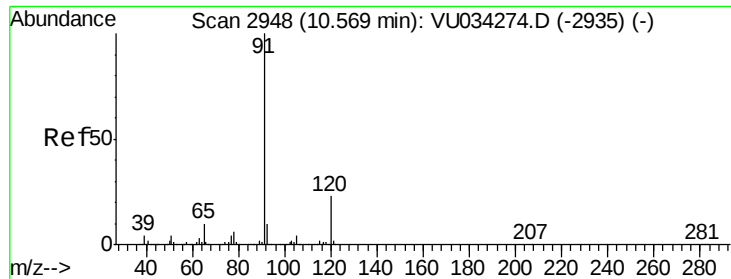
Delta R.T. -0.00 min

Lab File: VU034358.D

Acq: 07 Sep 2019 02:37

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 105     | 100   | 659272 |       |       |
| 120     | 26.7  | 13.4   | 40.2  |       |





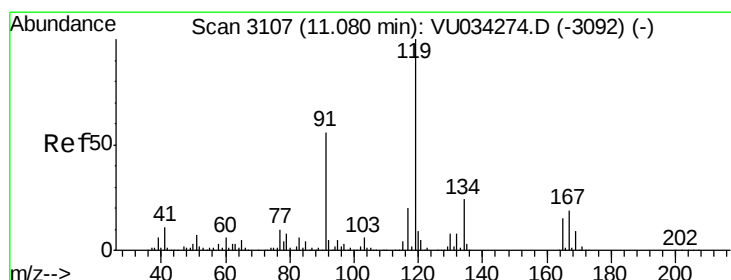
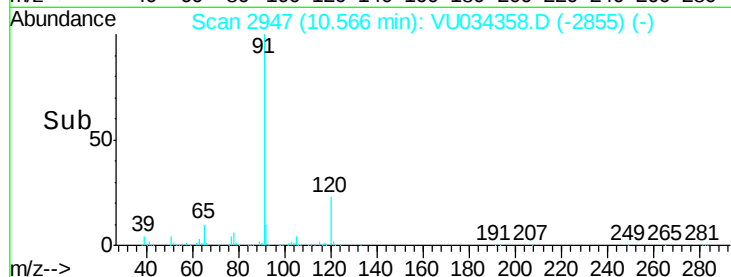
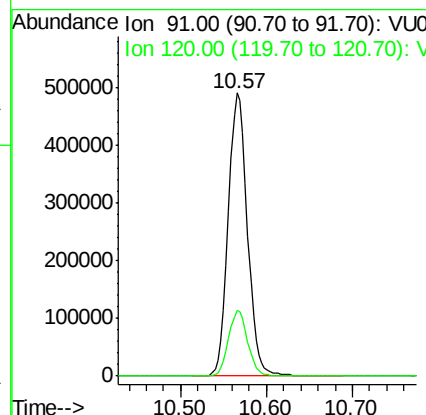
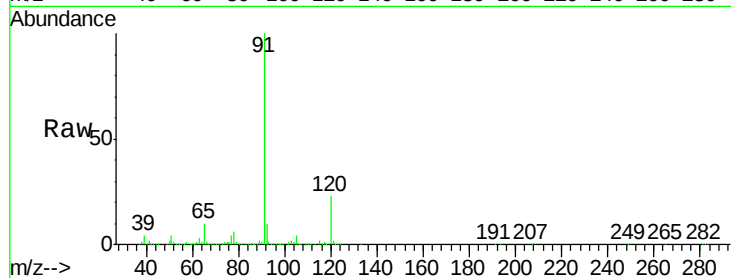
#78  
n-propylbenzene  
Concen: 36.408 ug/l  
RT: 10.57 min Scan# 2947  
Delta R.T. -0.00 min  
Lab File: VU034358.D  
Acq: 07 Sep 2019 02:37

Instrument :  
MSVOA\_U  
ClientSampled :  
S13-0266

Tot Ion: 91 Resp: 763832  
Ion Ratio Lower Upper  
91 100  
120 23.3 11.7 35.0

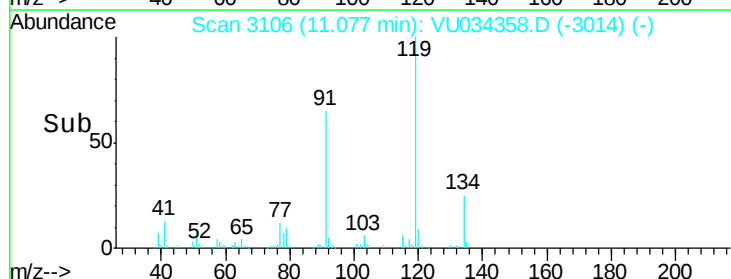
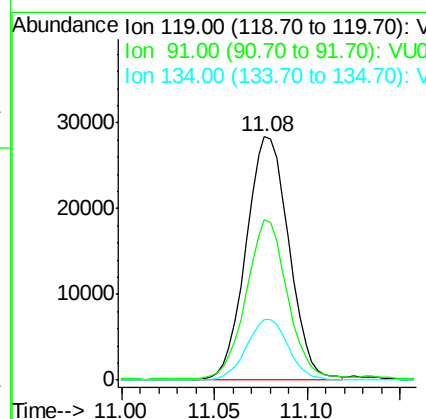
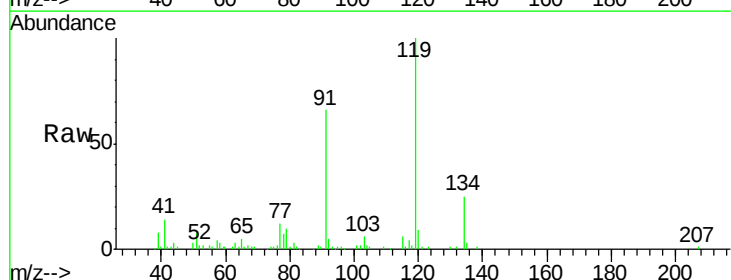
Manual Integrations  
APPROVED

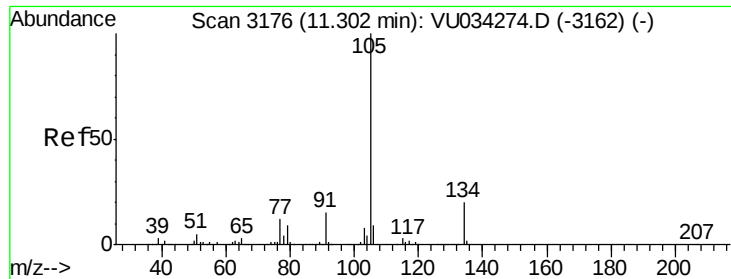
MMDadoda  
9/10/2019 1:31:07 PM



#83  
tert-Butylbenzene  
Concen: 3.011 ug/l  
RT: 11.08 min Scan# 3106  
Delta R.T. -0.00 min  
Lab File: VU034358.D  
Acq: 07 Sep 2019 02:37

Tgt Ion: 119 Resp: 45769  
Ion Ratio Lower Upper  
119 100  
91 62.6 27.8 83.4  
134 24.4 11.7 35.0





#85

sec-Butylbenzene

Concen: 19.415 ug/l

RT: 11.30 min Scan# 3176

Delta R.T. 0.00 min

Lab File: VU034358.D

Acq: 07 Sep 2019 02:37

Instrument :

MSVOA\_U

ClientSampled :

S13-0266

Tot Ion:105 Resp: 348364

Ion Ratio Lower Upper

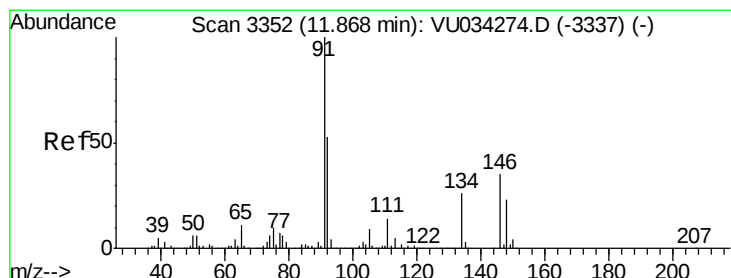
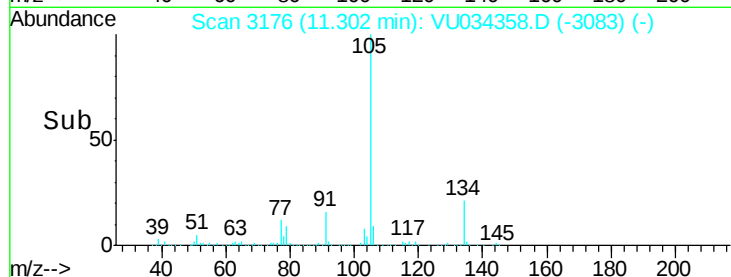
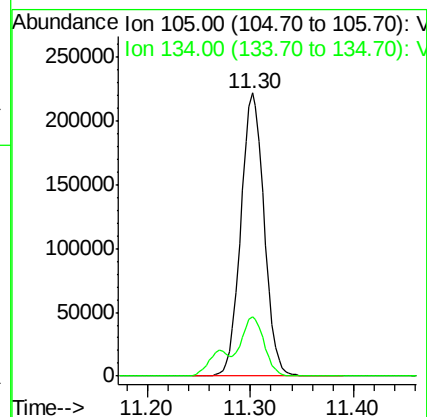
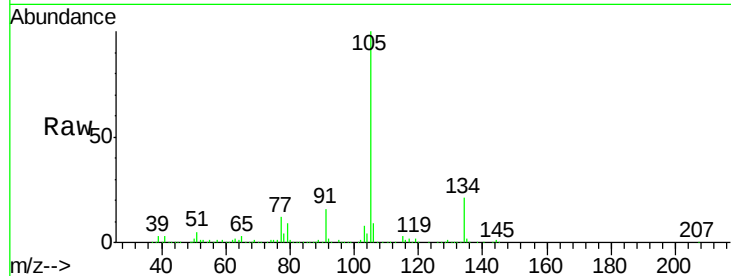
105 100

134 20.5 10.1 30.3

Manual Integrations  
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#89

n-Butylbenzene

Concen: 4.909 ug/l m

RT: 11.87 min Scan# 3352

Delta R.T. 0.00 min

Lab File: VU034358.D

Acq: 07 Sep 2019 02:37

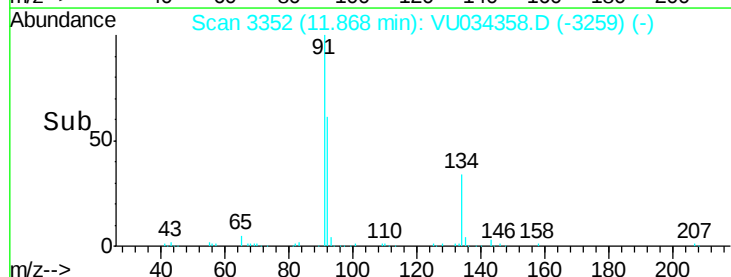
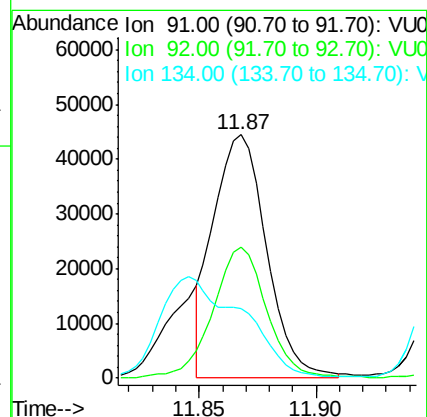
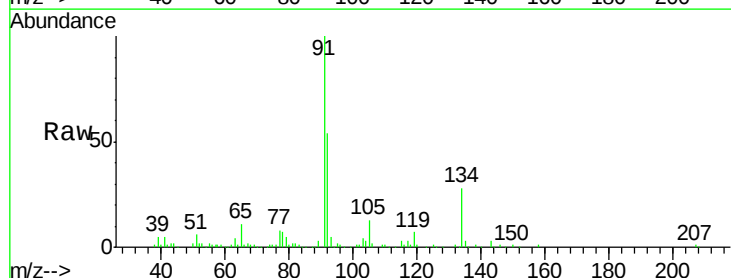
Tgt Ion: 91 Resp: 70655

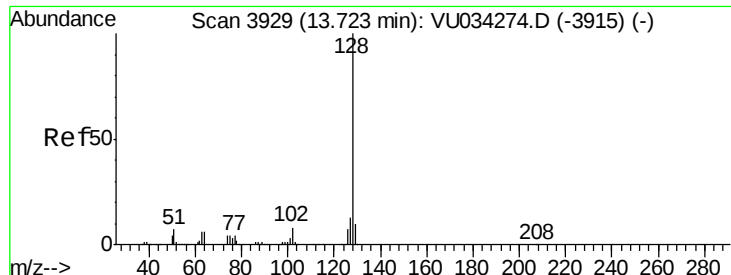
Ion Ratio Lower Upper

91 100

92 54.6 26.5 79.4

134 0.0 13.2 39.6#





#95  
Naphthalene  
Concen: 25.507 ug/l  
RT: 13.72 min Scan# 3929  
Delta R.T. 0.00 min  
Lab File: VU034358.D  
Acq: 07 Sep 2019 02:37

Instrument :  
MSVOA\_U  
ClientSampleId :  
S13-0266

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 13.5  | 10.6  | 15.8  |
| 129     | 12.0  | 8.4   | 12.6  |

Manual Integrations  
APPROVED

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9/10/2019 1:31:07 PM

