

Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU080618\  
 Data File : VU025900.D  
 Acq On : 06 Aug 2018 20:49  
 Operator : MD/SY  
 Sample : J4263-06  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 FL-0516

Manual Integrations  
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MMDadoda  
 8/20/2018 5:45:32 PM

Quant Time: Aug 08 03:40:02 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U072718W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 07 00:49:55 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 1) Pentafluorobenzene       | 4.99  | 168  | 177198   | 50.00  | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 5.89  | 114  | 287404   | 50.00  | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 9.09  | 117  | 284467   | 50.00  | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 11.49 | 152  | 181326   | 50.00  | ug/l    | 0.00     |
| System Monitoring Compounds |       |      |          |        |         |          |
| 33) 1,2-Dichloroethane-d4   | 5.31  | 65   | 144218   | 52.24  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 104.48% |          |
| 35) Dibromofluoromethane    | 4.89  | 113  | 121704   | 48.69  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 97.38%  |          |
| 50) Toluene-d8              | 7.57  | 98   | 438624   | 50.14  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 100.28% |          |
| 62) 4-Bromofluorobenzene    | 10.31 | 95   | 166278   | 48.97  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 97.94%  |          |
| Target Compounds            |       |      |          |        |         |          |
| 31) Cyclohexane             | 5.00  | 56   | 88066    | 24.34  | ug/l    | 98       |
| 39) Methylcyclohexane       | 6.42  | 83   | 172372   | 44.79  | ug/l    | 99       |
| 40) Benzene                 | 5.40  | 78   | 12042    | 1.23   | ug/l    | 97       |
| 67) Ethyl Benzene           | 9.25  | 91   | 176229   | 14.51  | ug/l    | 100      |
| 68) m/p-Xylenes             | 9.38  | 106  | 29971    | 6.43   | ug/l    | 98       |
| 73) Isopropylbenzene        | 10.17 | 105  | 124216   | 10.04  | ug/l    | 99       |
| 78) n-propylbenzene         | 10.59 | 91   | 205659   | 14.24  | ug/l    | 100      |
| 84) 1,2,4-Trimethylbenzene  | 11.15 | 105  | 2186393  | 205.28 | ug/l    | 98       |
| 85) sec-Butylbenzene        | 11.33 | 105  | 50891m   | 3.99   | ug/l    |          |
| 89) n-Butylbenzene          | 11.89 | 91   | 20734m   | 1.97   | ug/l    |          |
| 95) Naphthalene             | 13.74 | 128  | 359625   | 27.29  | ug/l    | 98       |

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

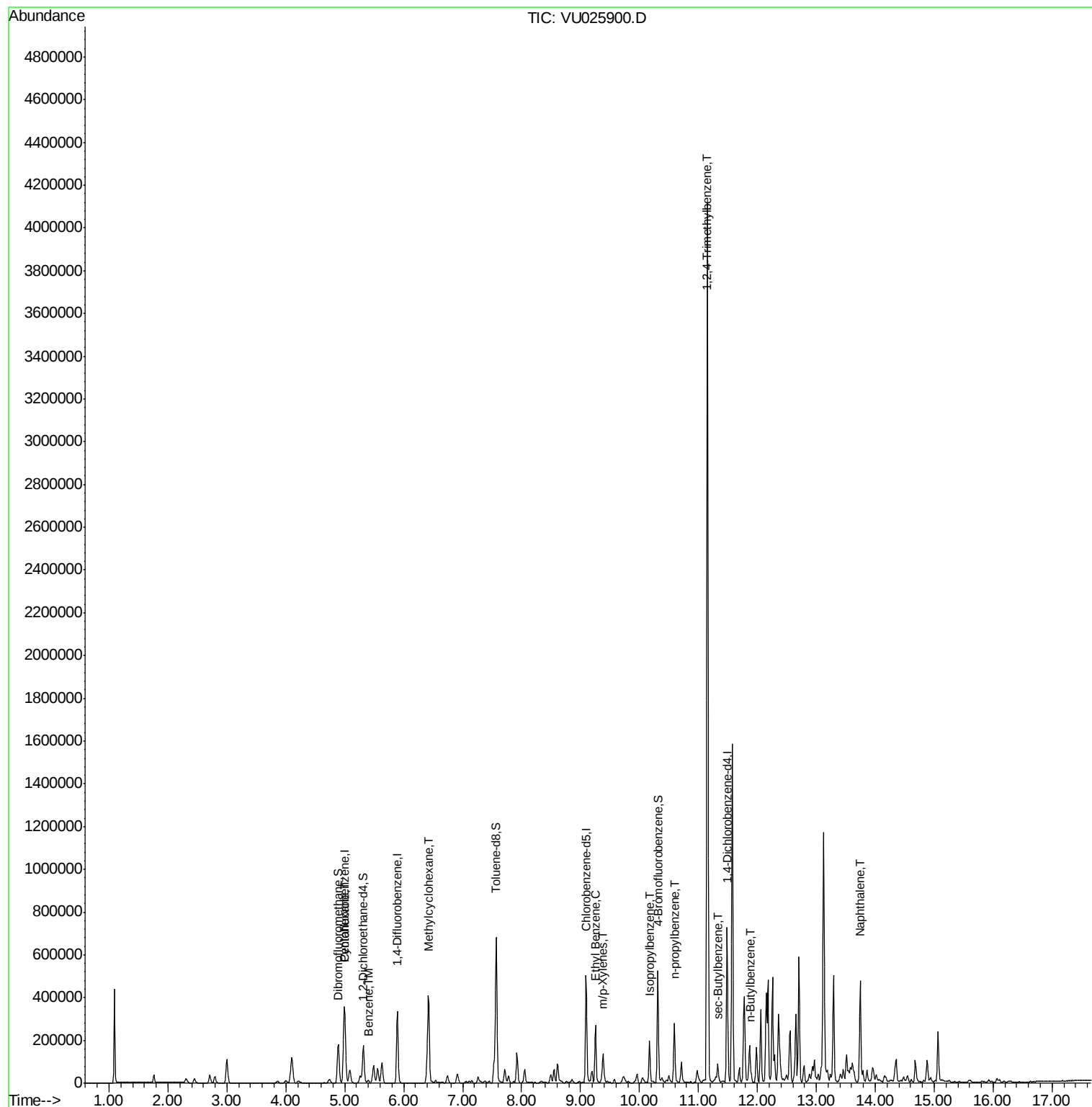
Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU080618\  
Data File : VU025900.D  
Acq On : 06 Aug 2018 20:49  
Operator : MD/SY  
Sample : J4263-06  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 23 Sample Multiplier: 1

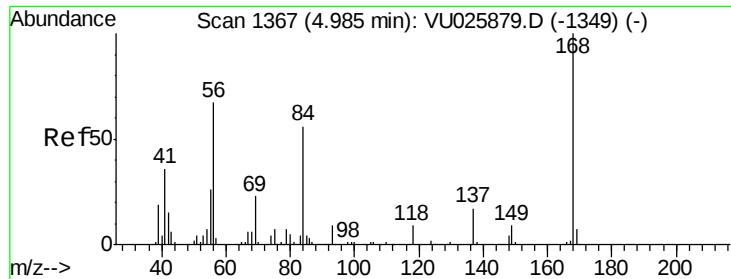
Instrument :  
MSVOA\_U  
ClientSampleId :  
FL-0516

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8/20/2018 5:45:32 PM

Quant Time: Aug 08 03:40:02 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U072718W.M  
Quant Title : SW846 8260  
QLast Update : Tue Aug 07 00:49:55 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VU025900.D

Acq: 06 Aug 2018 20:49

Instrument :

MSVOA\_U

ClientSampled :

FL-0516

Tot Ion:168 Resp: 177198

Ion Ratio Lower Upper

168 100

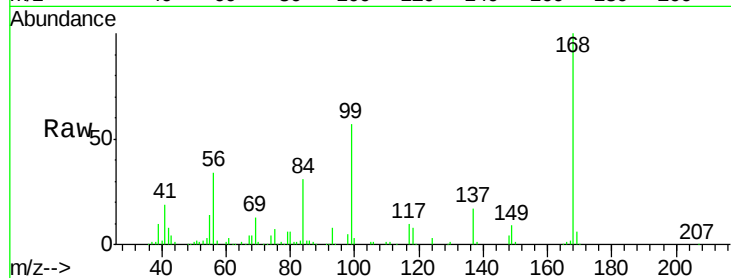
99 57.1 42.8 64.2

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): VU025879.D (-1349) (-)

Ion 98.90 (98.60 to 99.60): VU025879.D (-1349) (-)

4.99

80000

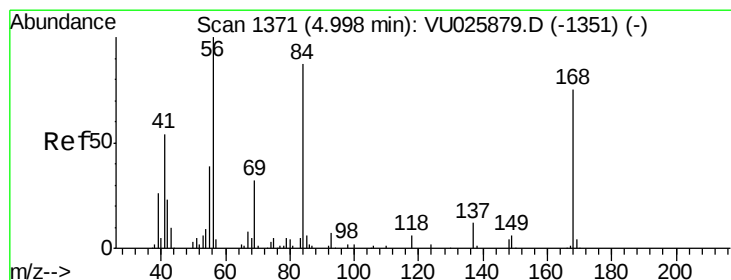
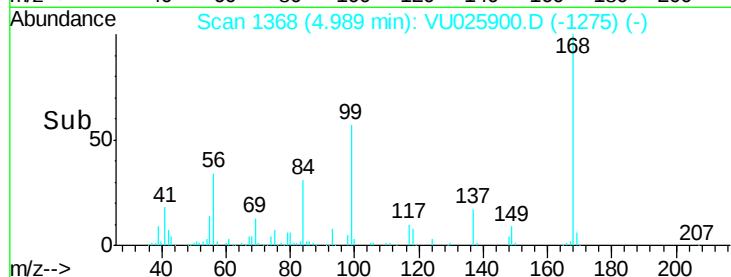
60000

40000

20000

0

Time-->



#31

Cyclohexane

Concen: 24.34 ug/l

RT: 5.00 min Scan# 1372

Delta R.T. 0.00 min

Lab File: VU025900.D

Acq: 06 Aug 2018 20:49

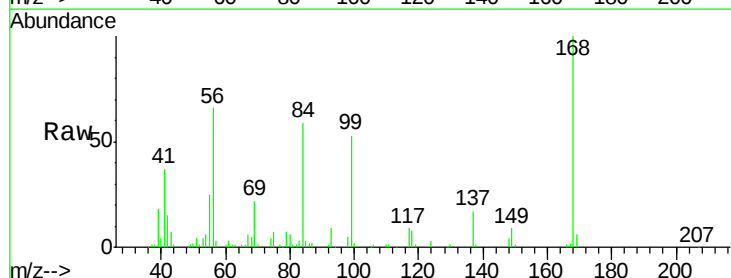
Tgt Ion: 56 Resp: 88066

Ion Ratio Lower Upper

56 100

69 33.2 26.8 40.2

84 89.3 69.7 104.5



Abundance Ion 56.00 (55.70 to 56.70): VU025879.D (-1351) (-)

Ion 69.00 (68.70 to 69.70): VU025879.D (-1351) (-)

Ion 84.00 (83.70 to 84.70): VU025879.D (-1351) (-)

5.00

50000

40000

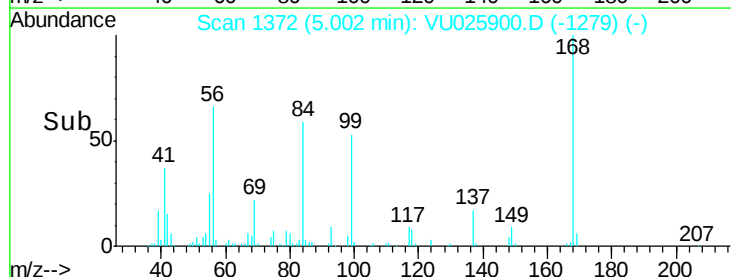
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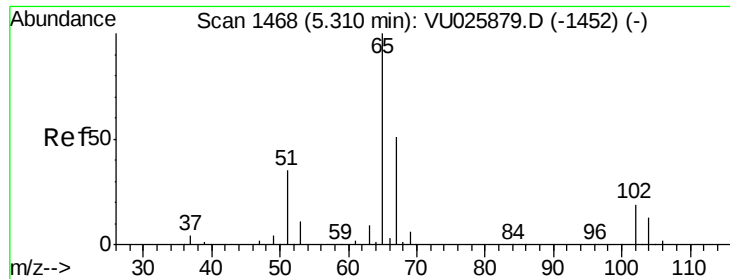
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Time-->





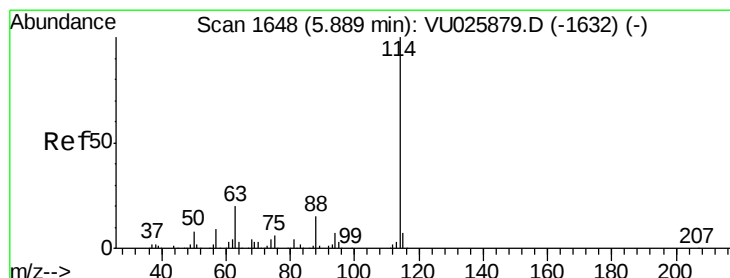
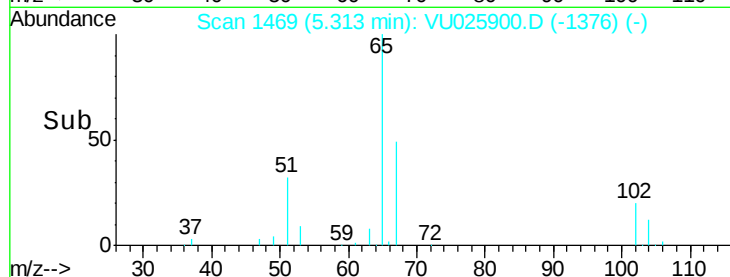
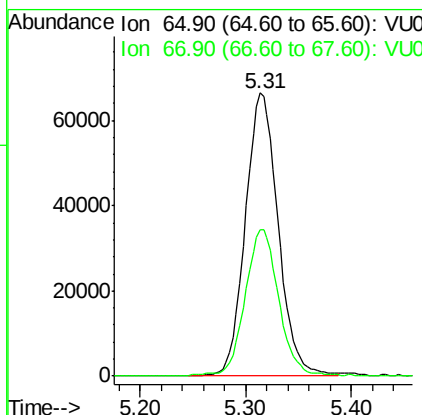
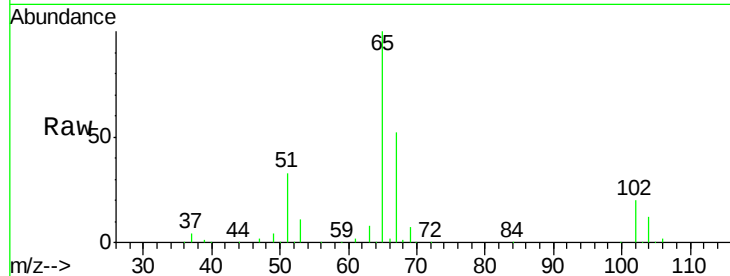
#33  
 1,2-Dichloroethane-d4  
 Concen: 52.24 ug/l  
 RT: 5.31 min Scan# 1469  
 Delta R.T. 0.00 min  
 Lab File: VU025900.D  
 Acq: 06 Aug 2018 20:49

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 FL-0516

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 65      | 100   | 144218 |       |       |
| 67      | 53.1  | 0.0    | 103.6 |       |

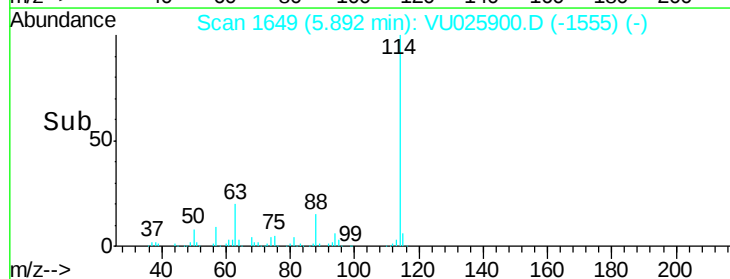
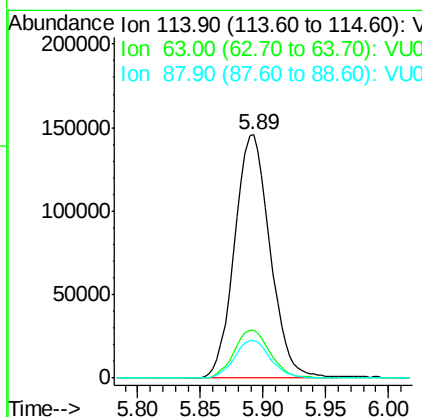
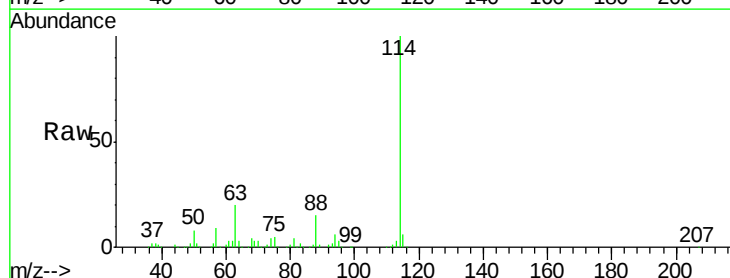
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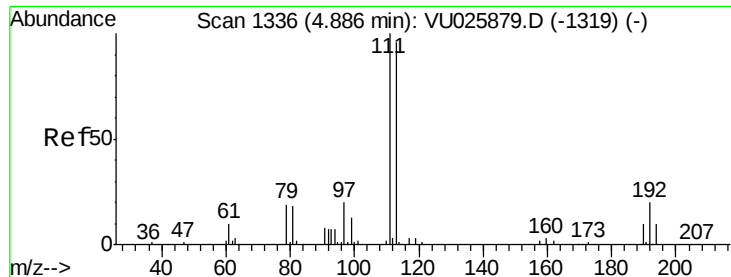
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#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 5.89 min Scan# 1649  
 Delta R.T. 0.00 min  
 Lab File: VU025900.D  
 Acq: 06 Aug 2018 20:49

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 114     | 100   | 287404 |       |       |
| 63      | 19.7  | 0.0    | 41.6  |       |
| 88      | 15.5  | 0.0    | 32.4  |       |





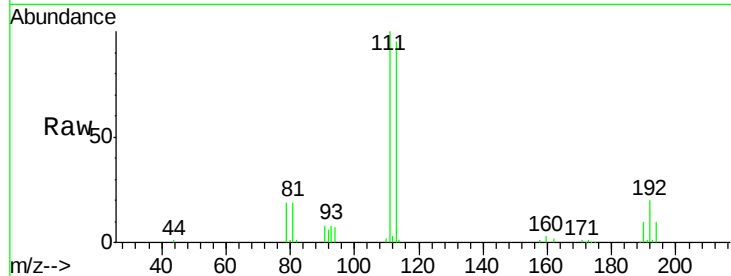
#35  
 Dibromofluoromethane  
 Concen: 48.69 ug/l  
 RT: 4.89 min Scan# 1337  
 Delta R.T. 0.00 min  
 Lab File: VU025900.D  
 Acq: 06 Aug 2018 20:49

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 FL-0516

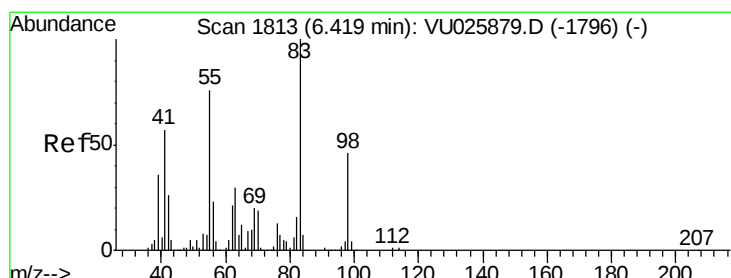
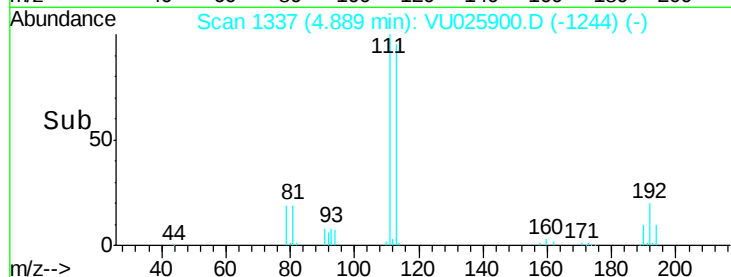
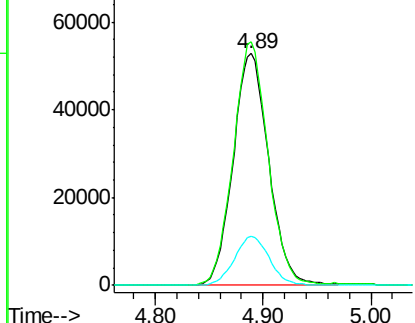
| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 113     | 100   | 121704 |       |       |
| 111     | 102.4 | 81.7   | 122.5 |       |
| 192     | 20.8  | 17.1   | 25.7  |       |

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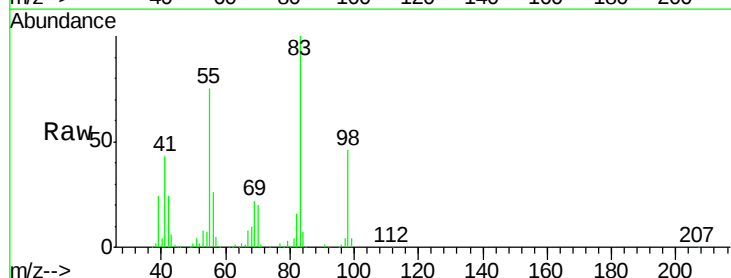


Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V

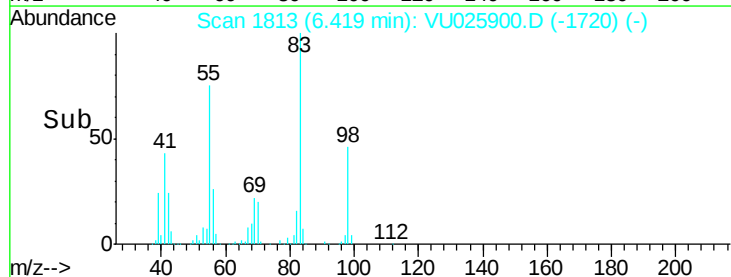
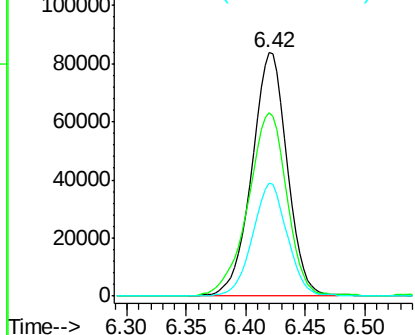


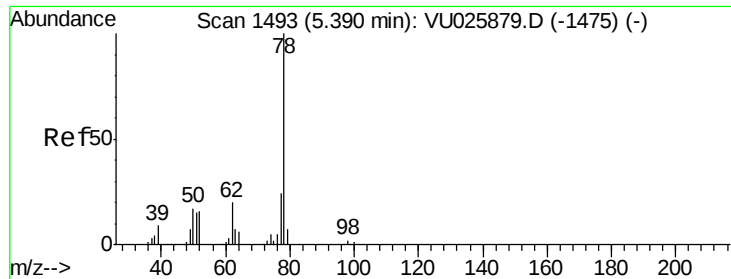
#39  
 Methylcyclohexane  
 Concen: 44.79 ug/l  
 RT: 6.42 min Scan# 1813  
 Delta R.T. 0.00 min  
 Lab File: VU025900.D  
 Acq: 06 Aug 2018 20:49

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 83      | 100   | 172372 |       |       |
| 55      | 75.2  | 60.0   | 90.0  |       |
| 98      | 46.5  | 36.1   | 54.1  |       |



Abundance Ion 83.00 (82.70 to 83.70): VU0  
 Ion 55.00 (54.70 to 55.70): VU0  
 Ion 98.00 (97.70 to 98.70): VU0





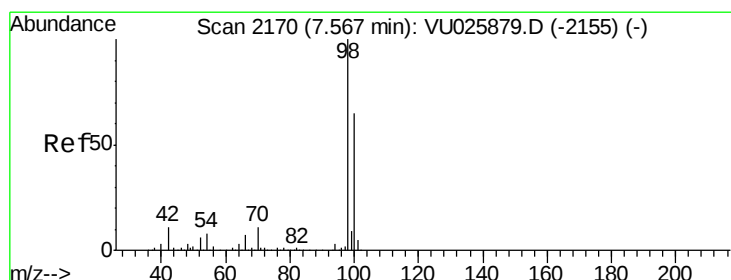
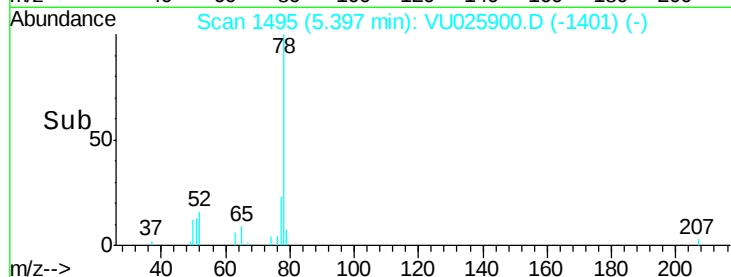
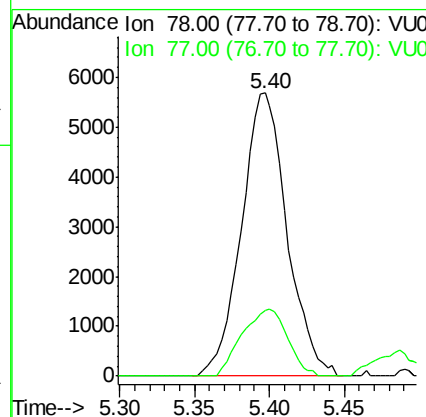
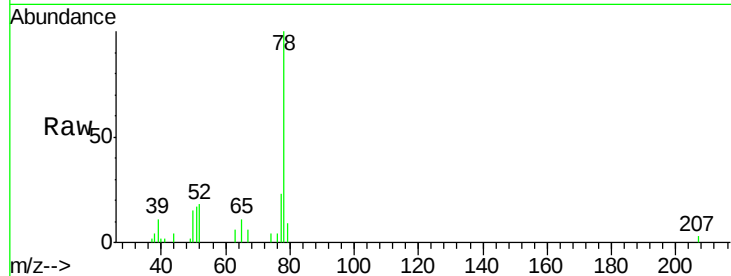
#40  
Benzene  
Concen: 1.23 ug/l  
RT: 5.40 min Scan# 1495  
Delta R.T. 0.00 min  
Lab File: VU025900.D  
Acq: 06 Aug 2018 20:49

Instrument :  
MSVOA\_U  
ClientSampleId :  
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| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 78      | 100   |       |       |
| 77      | 23.1  | 19.8  | 29.6  |

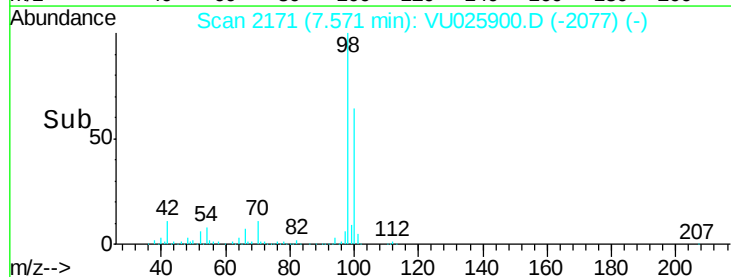
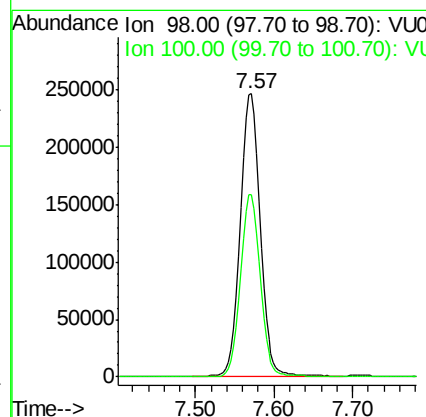
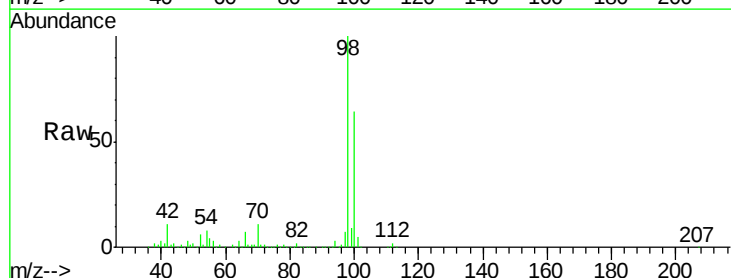
Manual Integrations  
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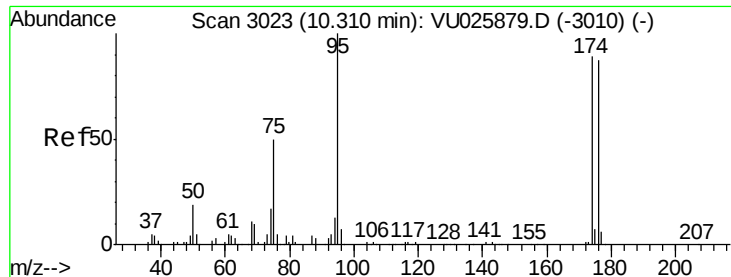
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#50  
Toluene-d8  
Concen: 50.14 ug/l  
RT: 7.57 min Scan# 2171  
Delta R.T. 0.00 min  
Lab File: VU025900.D  
Acq: 06 Aug 2018 20:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 98      | 100   |       |       |
| 100     | 63.3  | 51.1  | 76.7  |





#62

4-Bromofluorobenzene

Concen: 48.97 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. 0.00 min

Lab File: VU025900.D

Acq: 06 Aug 2018 20:49

Instrument :

MSVOA\_U

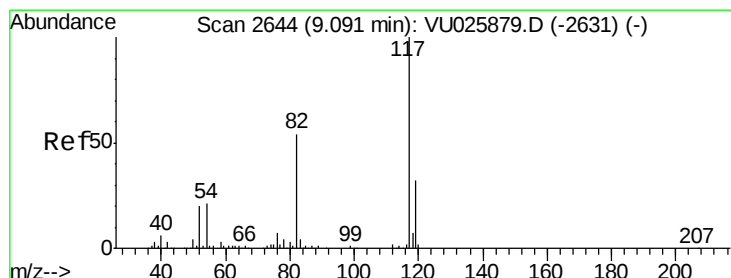
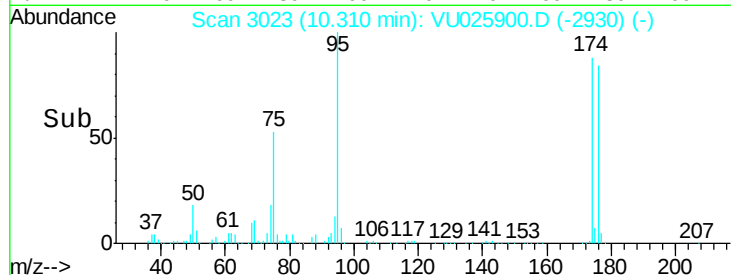
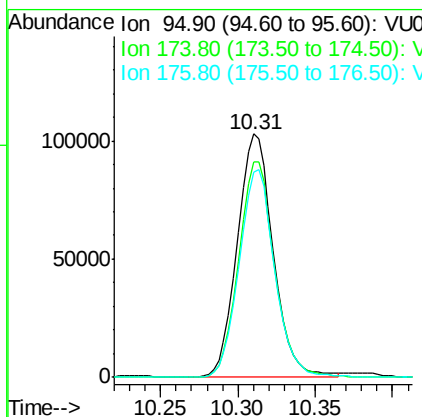
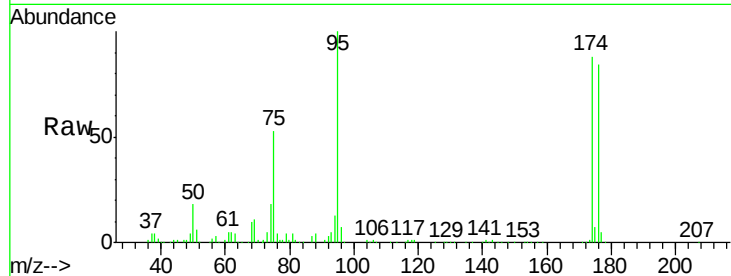
ClientSampled :

FL-0516

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 95    | Resp: | 166278 |
| Ion Ratio | Lower | Upper |        |
| 95        | 100   |       |        |
| 174       | 88.2  | 0.0   | 172.2  |
| 176       | 85.0  | 0.0   | 162.6  |

Manual Integrations  
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#63

Chlorobenzene-d5

Concen: 50.00 ug/l

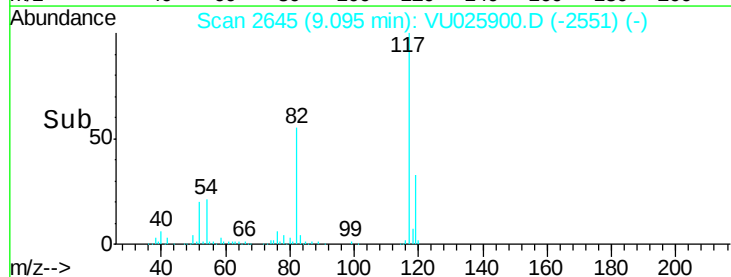
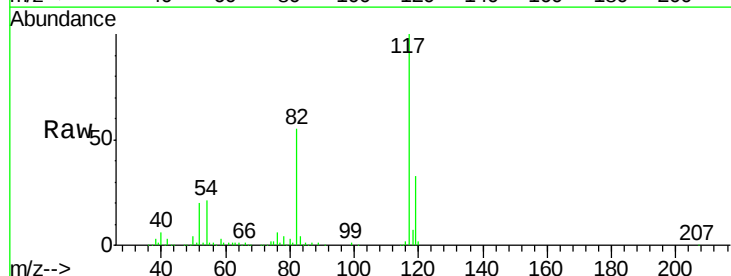
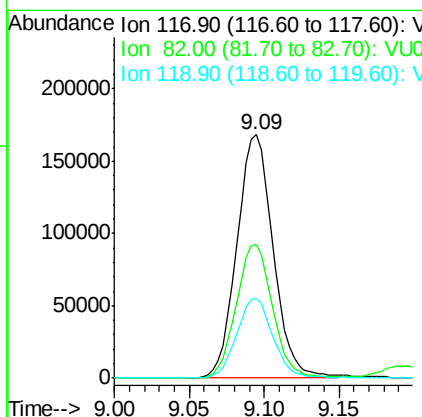
RT: 9.09 min Scan# 2645

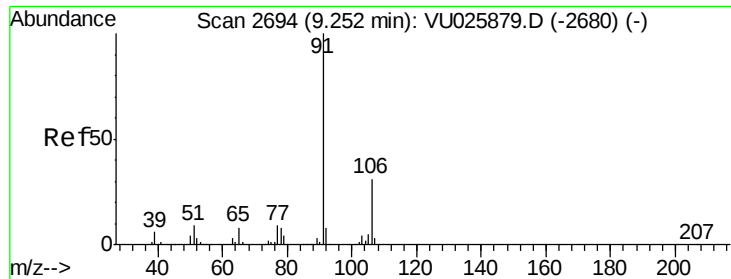
Delta R.T. 0.00 min

Lab File: VU025900.D

Acq: 06 Aug 2018 20:49

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 117   | Resp: | 284467 |
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 82        | 54.6  | 46.0  | 69.0   |
| 119       | 32.6  | 26.0  | 39.0   |





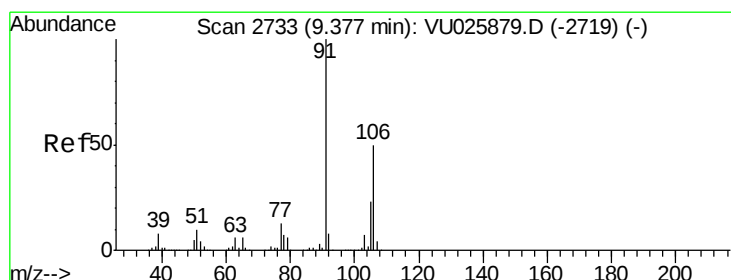
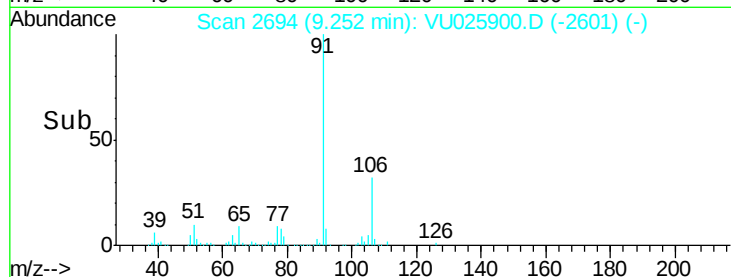
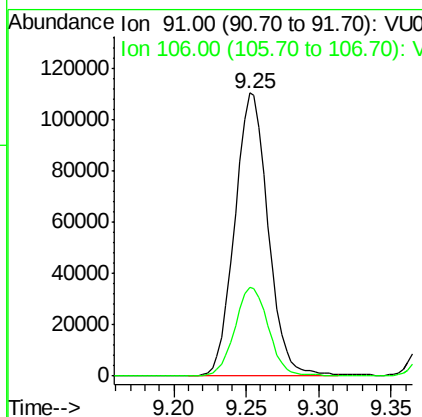
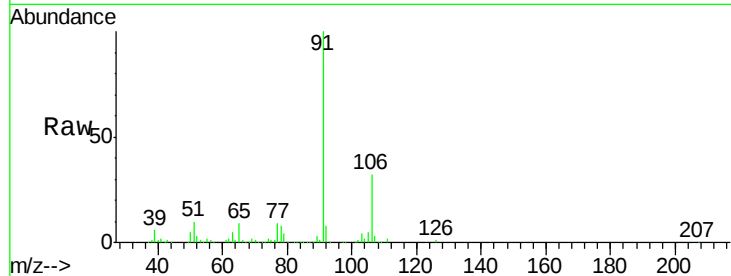
#67  
Ethyl Benzene  
Concen: 14.51 ug/l  
RT: 9.25 min Scan# 2694  
Delta R.T. 0.00 min  
Lab File: VU025900.D  
Acq: 06 Aug 2018 20:49

Instrument :  
MSVOA\_U  
ClientSampleId :  
FL-0516

Tot Ion: 91 Resp: 176229  
Ion Ratio Lower Upper  
91 100  
106 31.6 25.3 37.9

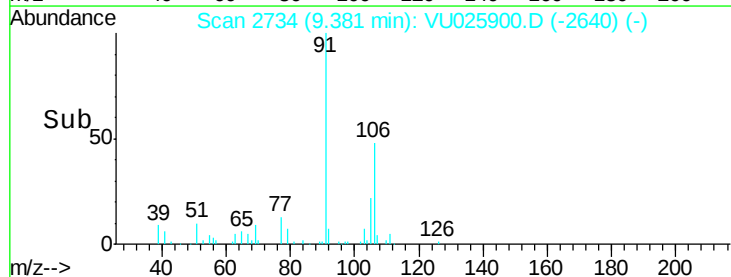
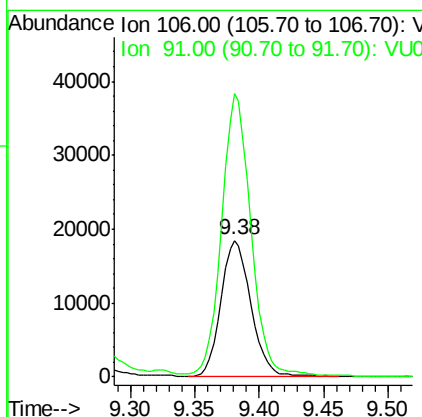
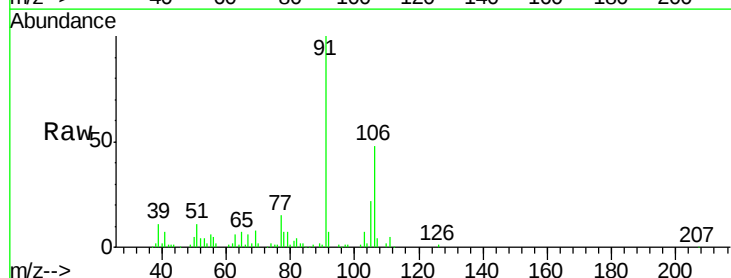
Manual Integrations  
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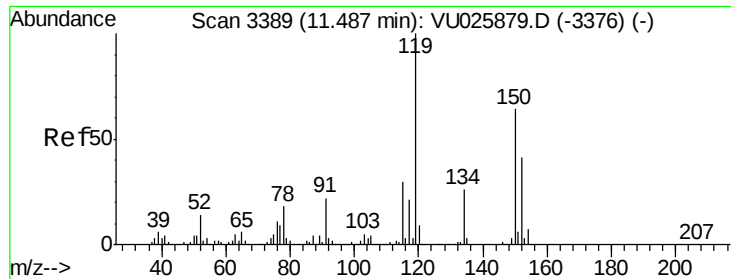
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#68  
m/p-Xylenes  
Concen: 6.43 ug/l  
RT: 9.38 min Scan# 2734  
Delta R.T. 0.00 min  
Lab File: VU025900.D  
Acq: 06 Aug 2018 20:49

Tgt Ion: 106 Resp: 29971  
Ion Ratio Lower Upper  
106 100  
91 199.2 162.3 243.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU025900.D

Acq: 06 Aug 2018 20:49

Instrument :

MSVOA\_U

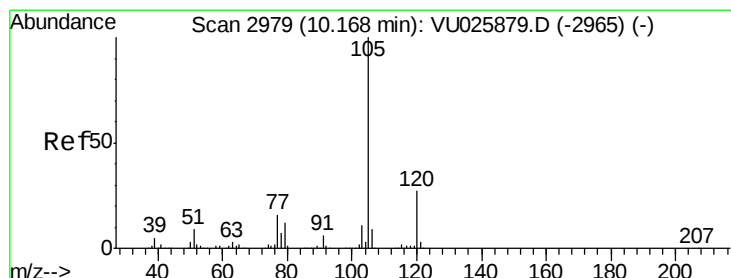
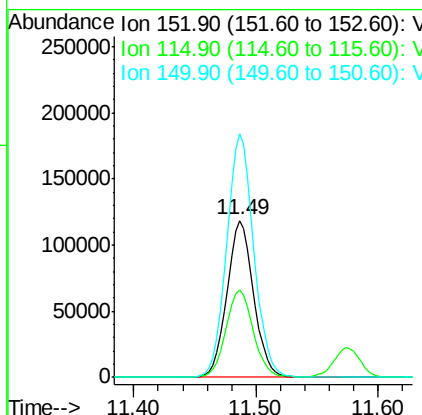
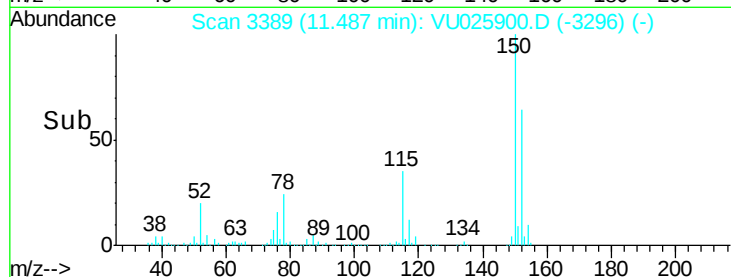
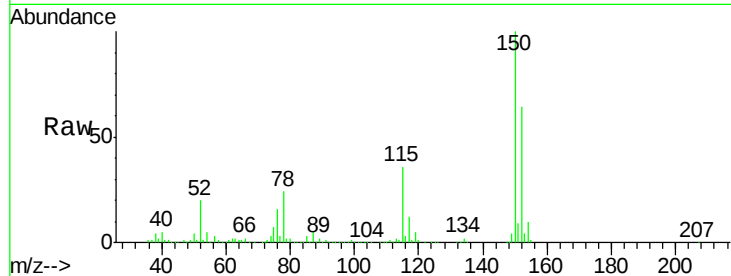
ClientSampled :

FL-0516

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 152   | Resp: | 181326 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 115       | 57.0  | 40.1  | 120.3  |
| 150       | 157.7 | 0.0   | 351.4  |

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#73

Isopropylbenzene

Concen: 10.04 ug/l

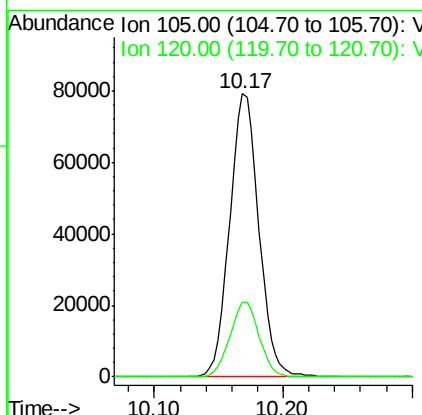
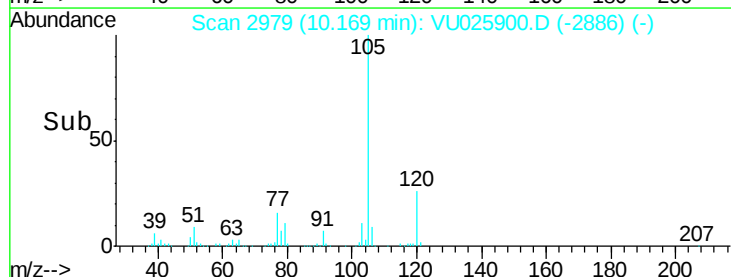
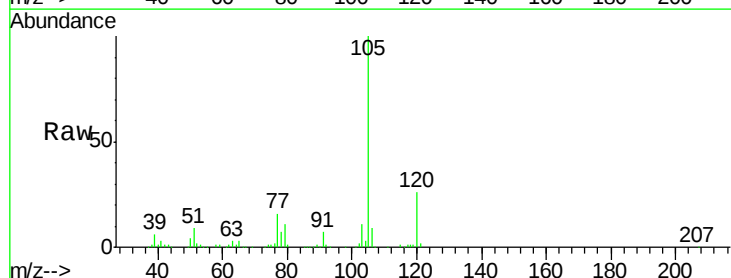
RT: 10.17 min Scan# 2979

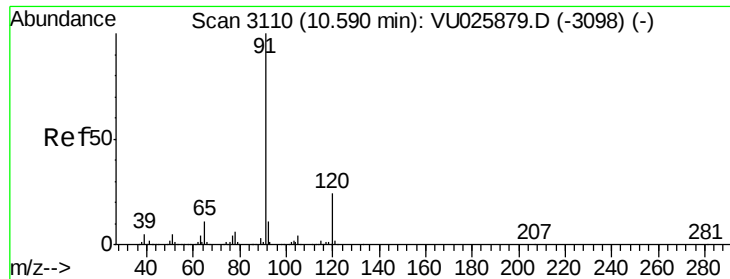
Delta R.T. 0.00 min

Lab File: VU025900.D

Acq: 06 Aug 2018 20:49

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 105   | Resp: | 124216 |
| Ion Ratio | Lower | Upper |        |
| 105       | 100   |       |        |
| 120       | 26.6  | 13.5  | 40.5   |





#78

n-propylbenzene

Concen: 14.24 ug/l

RT: 10.59 min Scan# 3110

Delta R.T. 0.00 min

Lab File: VU025900.D

Acq: 06 Aug 2018 20:49

Instrument :

MSVOA\_U

ClientSampled :

FL-0516

Tot Ion: 91 Resp: 205659

Ion Ratio Lower Upper

91 100

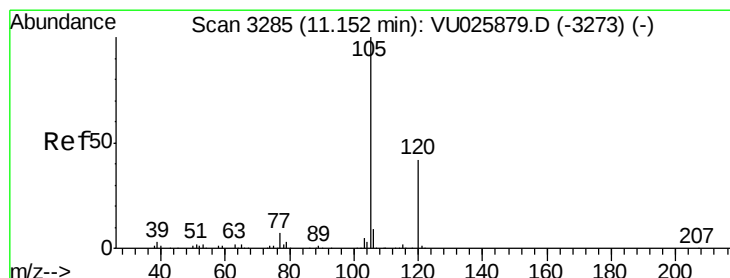
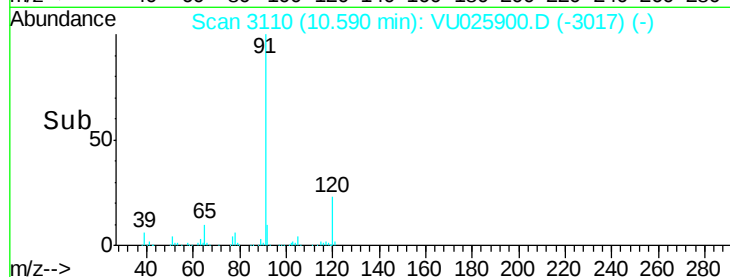
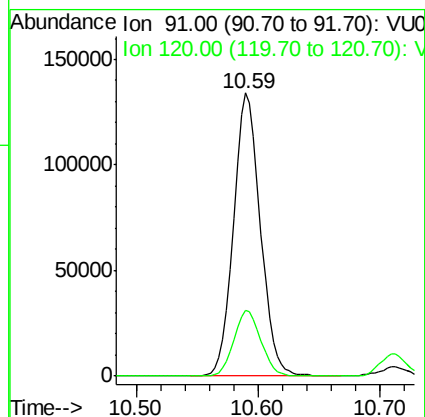
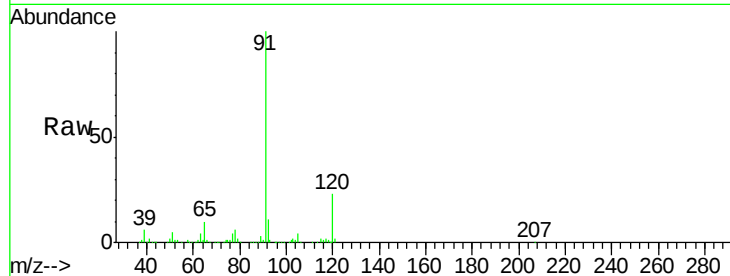
120 23.5 11.8 35.3

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#84

1,2,4-Trimethylbenzene

Concen: 205.28 ug/l

RT: 11.15 min Scan# 3285

Delta R.T. 0.00 min

Lab File: VU025900.D

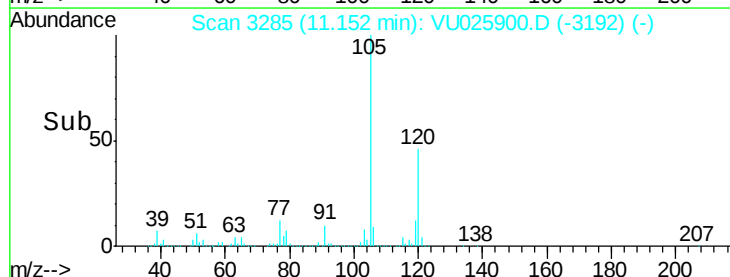
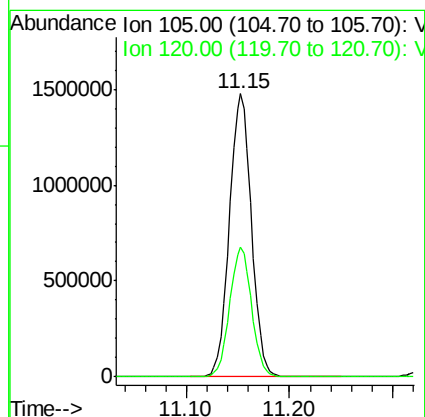
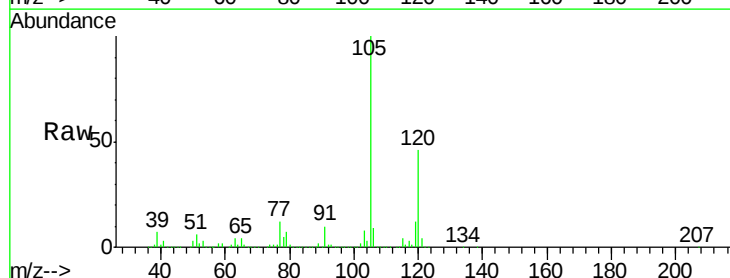
Acq: 06 Aug 2018 20:49

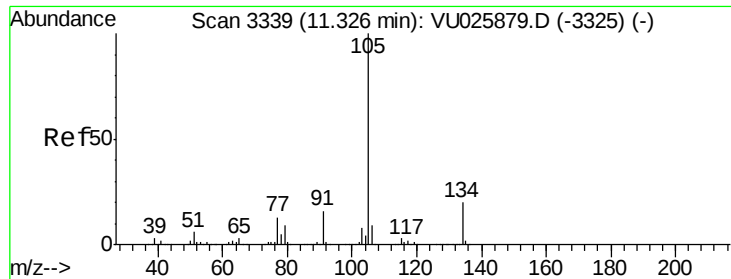
Tgt Ion: 105 Resp: 2186393

Ion Ratio Lower Upper

105 100

120 45.6 22.3 66.8





#85

sec-Butylbenzene

Concen: 3.99 ug/l m

RT: 11.33 min Scan# 3339

Delta R.T. 0.00 min

Lab File: VU025900.D

Acq: 06 Aug 2018 20:49

Instrument :

MSVOA\_U

ClientSampled :

FL-0516

Tot Ion:105 Resp: 50891

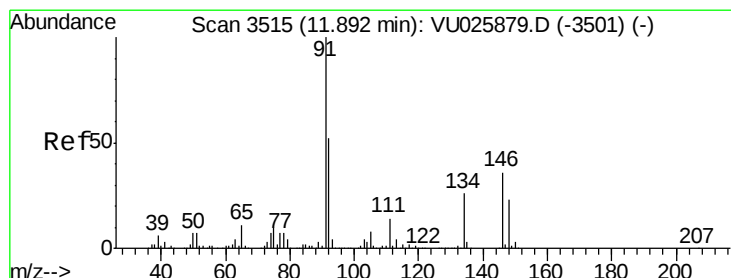
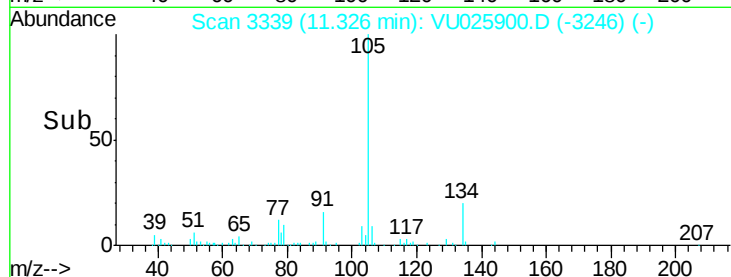
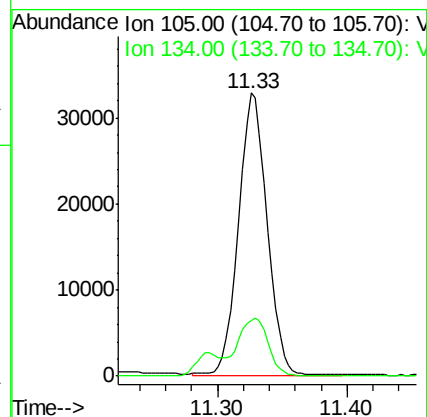
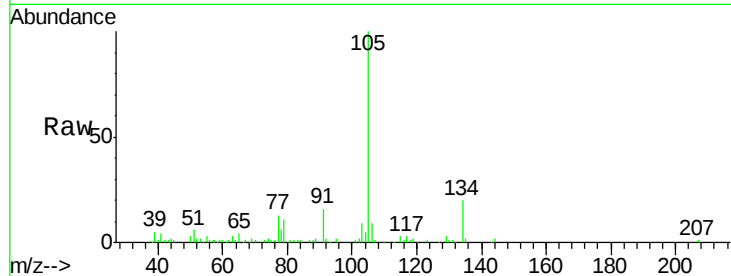
Ion Ratio Lower Upper

105 100

134 0.0 10.3 30.8#

Manual Integrations  
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#89

n-Butylbenzene

Concen: 1.97 ug/l m

RT: 11.89 min Scan# 3515

Delta R.T. 0.00 min

Lab File: VU025900.D

Acq: 06 Aug 2018 20:49

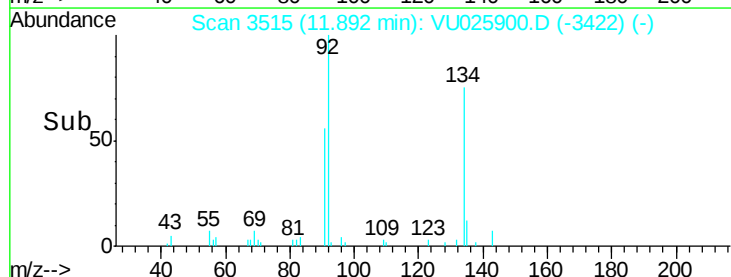
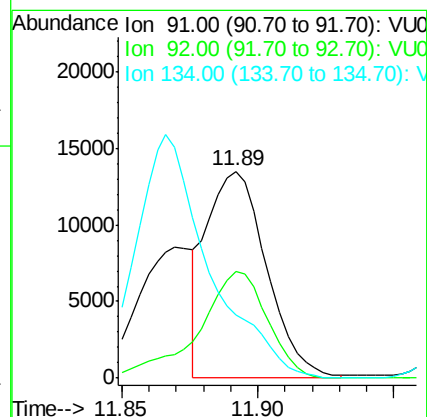
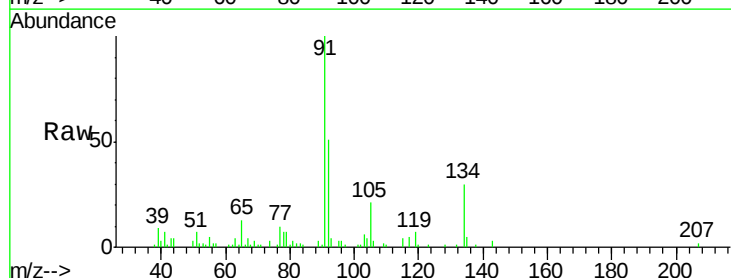
Tgt Ion: 91 Resp: 20734

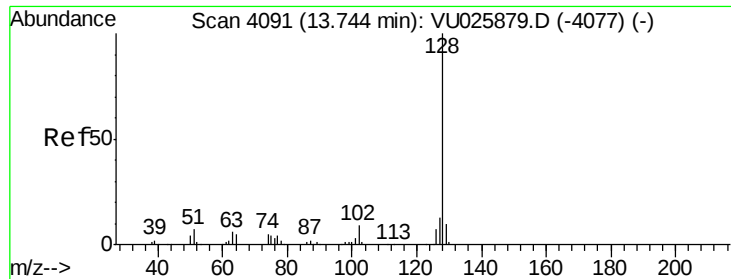
Ion Ratio Lower Upper

91 100

92 59.3 26.5 79.5

134 0.0 13.6 40.7#





#95  
Naphthalene  
Concen: 27.29 ug/l  
RT: 13.74 min Scan# 4091  
Delta R.T. 0.00 min  
Lab File: VU025900.D  
Acq: 06 Aug 2018 20:49

Instrument :  
MSVOA\_U  
ClientSampleId :  
FL-0516

| Tot Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 128     | 100   |            |            |
| 127     | 12.9  | 10.5       | 15.7       |
| 129     | 11.4  | 8.3        | 12.5       |

Manual Integrations  
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