

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052020\  
 Data File : VU038252.D  
 Acq On : 20 May 2020 17:01  
 Operator : JC/MD  
 Sample : L2724-06  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BE4T3

Quant Time: May 21 02:23:46 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR050720WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Thu May 21 01:14:05 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.28  | 114  | 336077   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.44  | 117  | 335087   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.83 | 152  | 167773   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61   | 65    | 131854   | 4.29     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 85.80%  |
| 7) Chloroethane-d5             | 1.93   | 69    | 124624   | 4.69     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 93.80%  |
| 11) 1,1-Dichloroethene-d2      | 2.59   | 63    | 165850   | 3.23     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 64.60%  |
| 20) 2-Butanone-d5              | 4.67   | 46    | 402538   | 53.07    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 106.14% |
| 24) Chloroform-d               | 5.10   | 84    | 216803   | 4.65     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 93.00%  |
| 26) 1,2-Dichloroethane-d4      | 5.74   | 65    | 129448   | 4.84     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 96.80%  |
| 32) Benzene-d6                 | 5.76   | 84    | 462295   | 4.60     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 92.00%  |
| 36) 1,2-Dichloropropane-d6     | 6.72   | 67    | 153992   | 4.75     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 95.00%  |
| 41) Toluene-d8                 | 7.92   | 98    | 420648   | 4.66     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 93.20%  |
| 43) trans-1,3-Dichloropropene- | 8.20   | 79    | 57993    | 4.47     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 89.40%  |
| 46) 2-Hexanone-d5              | 8.65   | 63    | 305924   | 49.90    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 99.80%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.77  | 84    | 121408   | 4.75     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 95.00%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.20  | 152   | 158185   | 4.84     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 96.80%  |

## Target Compounds

| Target Compounds             | R.T.  | QIon | Response | Conc   | Units | Ovalue |
|------------------------------|-------|------|----------|--------|-------|--------|
| 8) Chloroethane              | 1.95  | 64   | 173427   | 7.768  | ug/L  | # 75   |
| 13) Acetone                  | 2.67  | 43   | 18613    | 3.911  | ug/L  | 96     |
| 14) Carbon disulfide         | 2.83  | 76   | 6066     | 0.073  | ug/L  | 96     |
| 18) trans-1,2-Dichloroethene | 3.38  | 96   | 3250     | 0.128  | ug/L  | 92     |
| 30) Cyclohexane              | 5.42  | 56   | 73601    | 1.624  | ug/L  | 99     |
| 33) Benzene                  | 5.81  | 78   | 3724168  | 34.706 | ug/L  | 100    |
| 35) Methylcyclohexane        | 6.79  | 83   | 60742    | 1.397  | ug/L  | 92     |
| 42) Toluene                  | 7.99  | 91   | 109204   | 0.964  | ug/L  | 98     |
| 51) Chlorobenzene            | 9.47  | 112  | 4313377  | 61.359 | ug/L  | 99     |
| 52) Ethylbenzene             | 9.59  | 91   | 28534    | 0.233  | ug/L  | 99     |
| 53) m,p-Xylene               | 9.71  | 106  | 31807    | 0.676  | ug/L  | 94     |
| 54) o-Xylene                 | 10.11 | 106  | 41601    | 0.914  | ug/L  | 94     |
| 56) Isopropylbenzene         | 10.50 | 105  | 499907   | 4.278  | ug/L  | 99     |
| 62) 1,3-Dichlorobenzene      | 11.76 | 146  | 23355    | 0.428  | ug/L  | 94     |
| 63) 1,4-Dichlorobenzene      | 11.85 | 146  | 333405   | 6.027  | ug/L  | 98     |
| 65) 1,2-Dichlorobenzene      | 12.22 | 146  | 62075    | 1.182  | ug/L  | 100    |

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QLast Update : Thu May 21 01:14:05 2020  
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

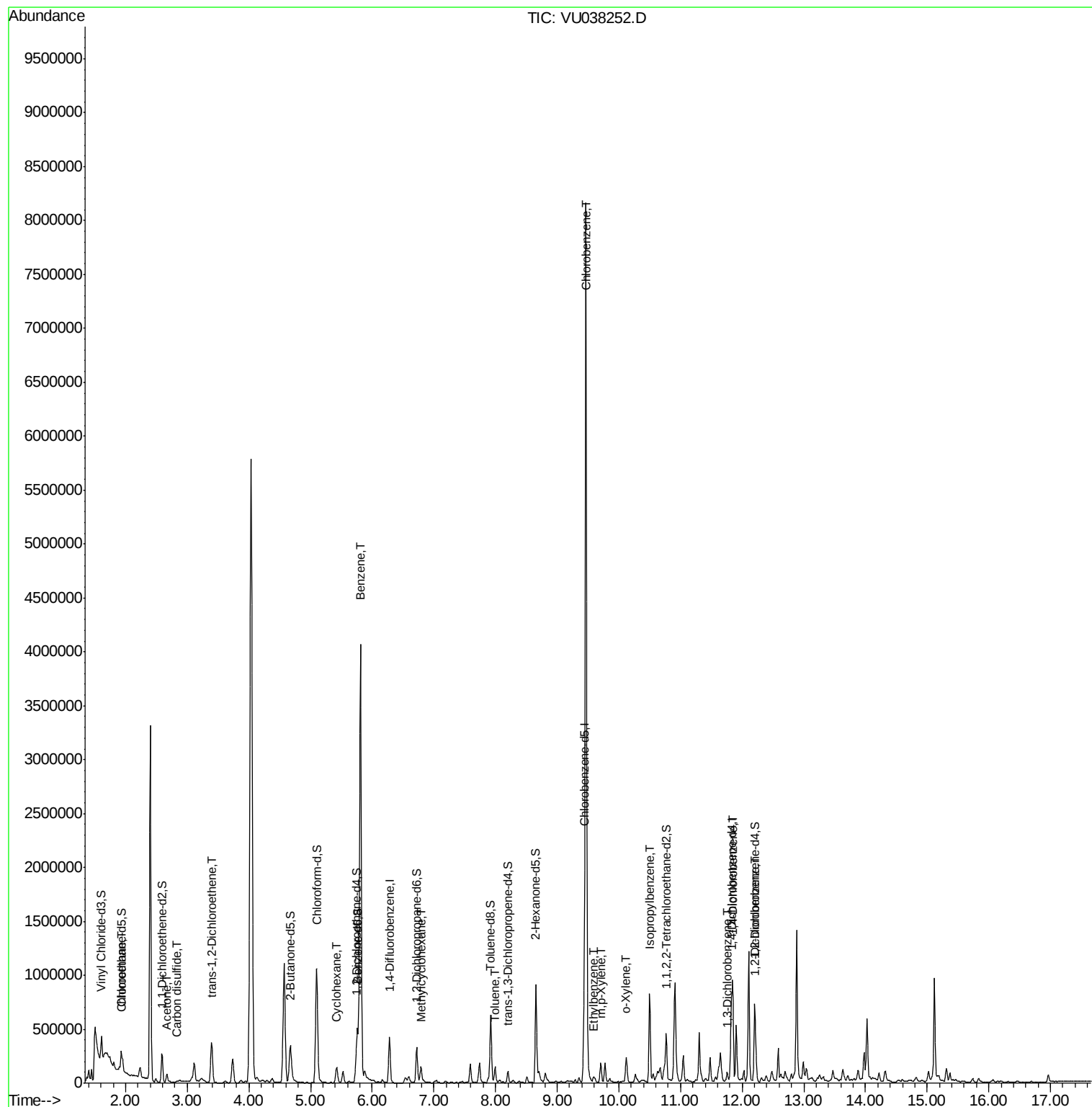
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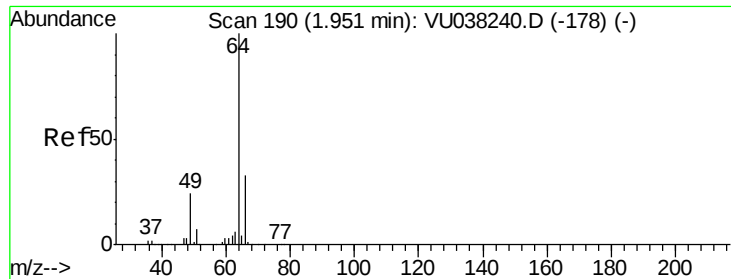
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU052020\  
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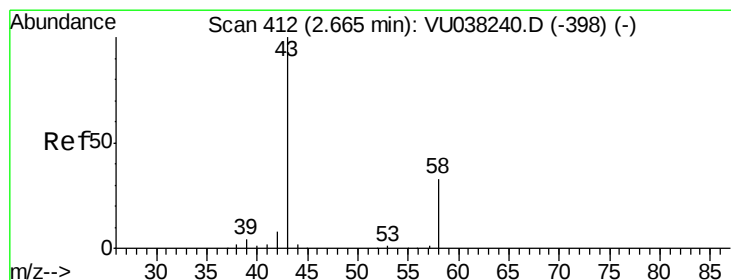
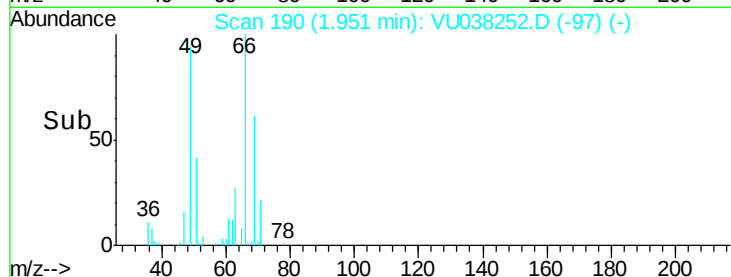
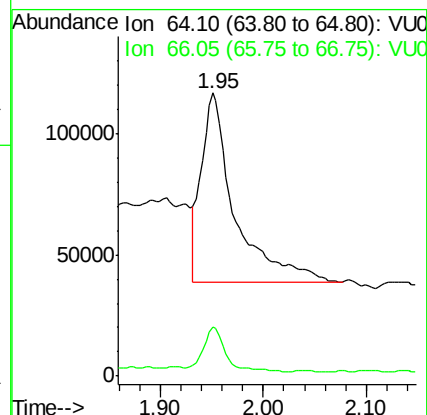
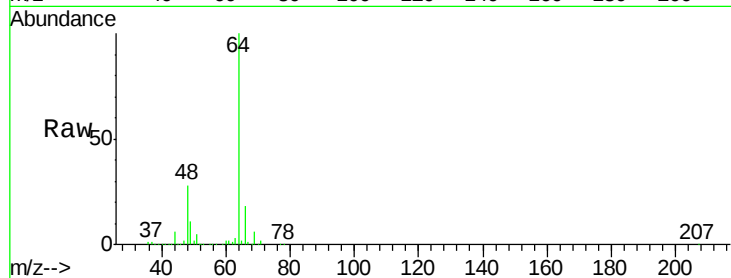




#8  
Chloroethane  
Concen: 7.768 ug/L  
RT: 1.95 min Scan# 190  
Delta R.T. -0.00 min  
Lab File: VU038252.D  
Acq: 20 May 2020 17:01

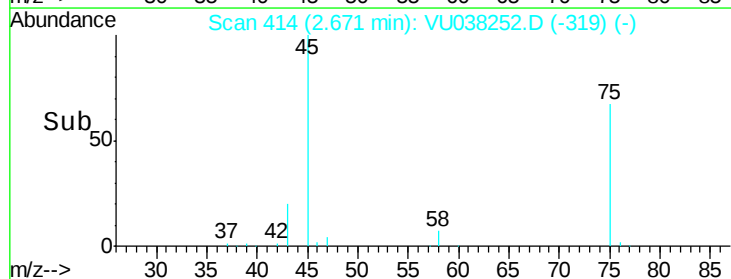
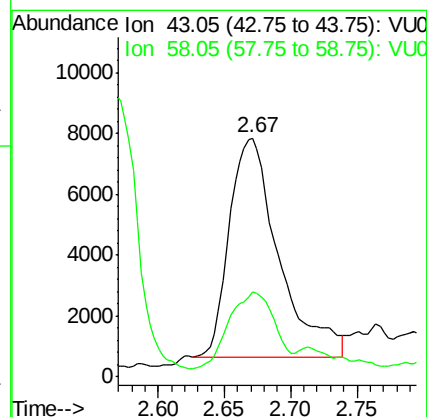
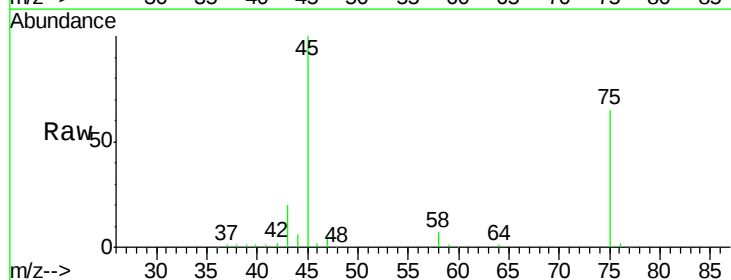
Instrument :  
MSVOA\_U  
ClientSampled :  
BE4T3

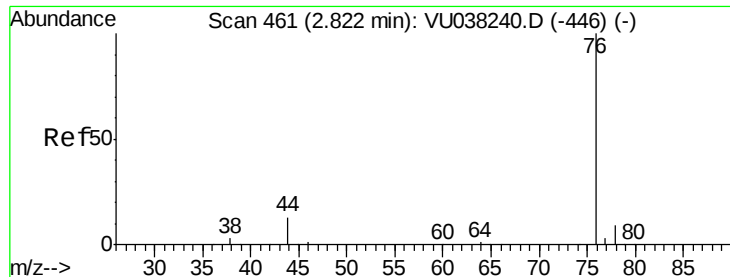
Tot Ion: 64 Resp: 173427  
Ion Ratio Lower Upper  
64 100  
66 17.5 21.8 40.4#



#13  
Acetone  
Concen: 3.911 ug/L  
RT: 2.67 min Scan# 414  
Delta R.T. 0.01 min  
Lab File: VU038252.D  
Acq: 20 May 2020 17:01

Tgt Ion: 43 Resp: 18613  
Ion Ratio Lower Upper  
43 100  
58 33.9 0.0 63.6





#14

Carbon disulfide

Concen: 0.073 ug/L

RT: 2.83 min Scan# 462

Delta R.T. 0.00 min

Lab File: VU038252.D

Acq: 20 May 2020 17:01

Instrument :

MSVOA\_U

ClientSampled :

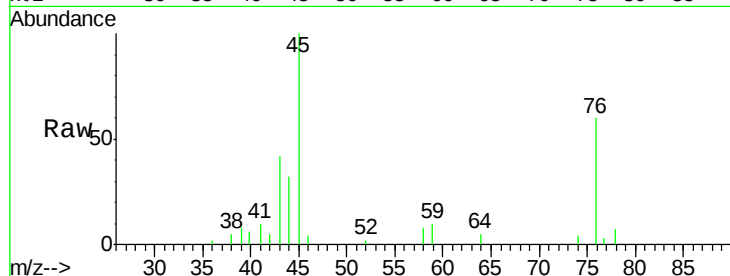
BE4T3

Tot Ion: 76 Resp: 6066

Ion Ratio Lower Upper

76 100

78 10.3 7.1 10.7



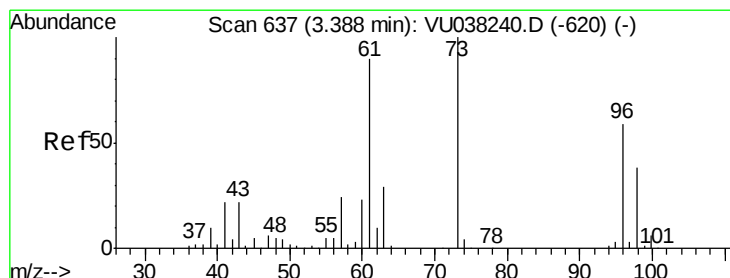
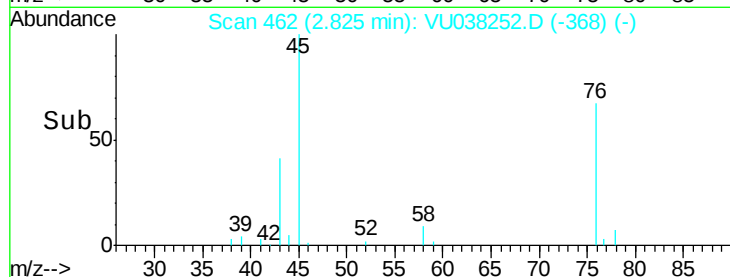
Abundance Ion 76.05 (75.75 to 76.75): VU038240.D (-446) (-)

Ion 78.00 (77.70 to 78.70): VU038240.D (-446) (-)

Time-->

2.83

2.85



#18

trans-1,2-Dichloroethene

Concen: 0.128 ug/L

RT: 3.38 min Scan# 636

Delta R.T. -0.00 min

Lab File: VU038252.D

Acq: 20 May 2020 17:01

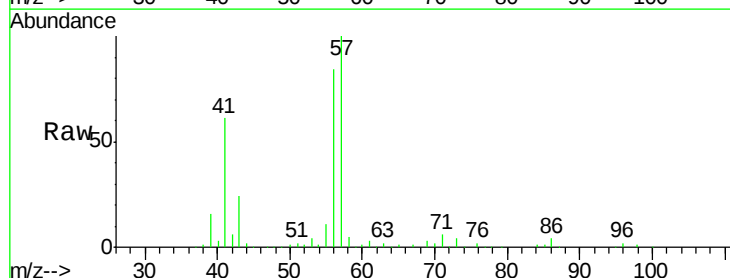
Tgt Ion: 96 Resp: 3250

Ion Ratio Lower Upper

96 100

61 156.0 102.1 189.5

98 71.0 45.6 84.8



Abundance Ion 96.00 (95.70 to 96.70): VU038240.D (-620) (-)

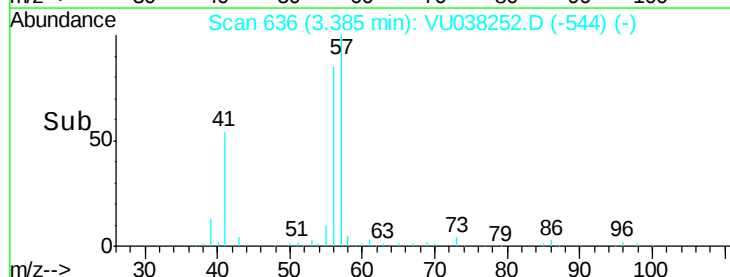
Ion 61.05 (60.75 to 61.75): VU038240.D (-620) (-)

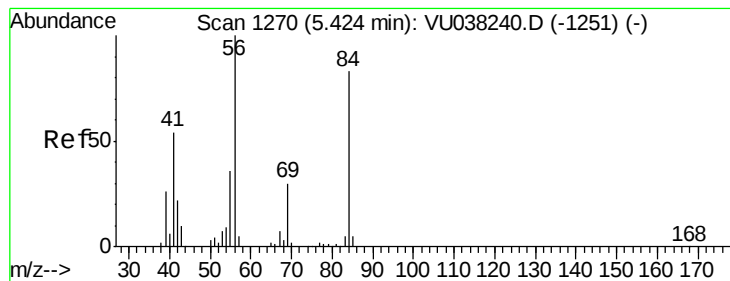
Ion 97.95 (97.65 to 98.65): VU038240.D (-620) (-)

Time-->

3.38

3.45





#30

Cyclohexane

Concen: 1.624 ug/L

RT: 5.42 min Scan# 1270

Delta R.T. -0.00 min

Lab File: VU038252.D

Acq: 20 May 2020 17:01

Instrument :

MSVOA\_U

ClientSampleId :

BE4T3

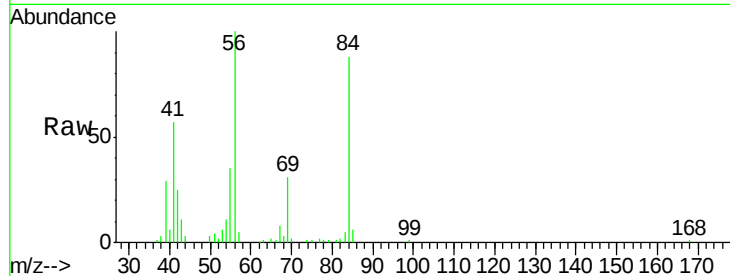
Tot Ion: 56 Resp: 73601

Ion Ratio Lower Upper

56 100

69 30.1 24.2 36.4

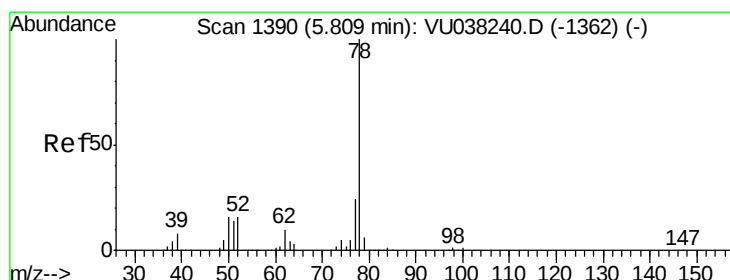
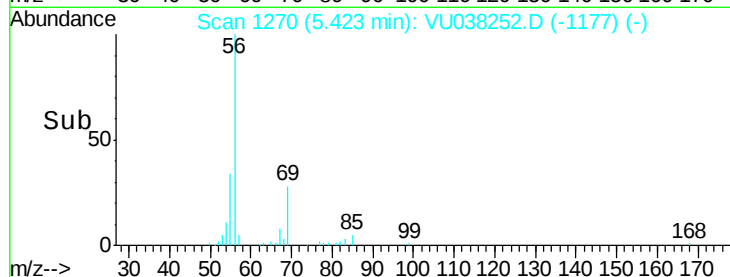
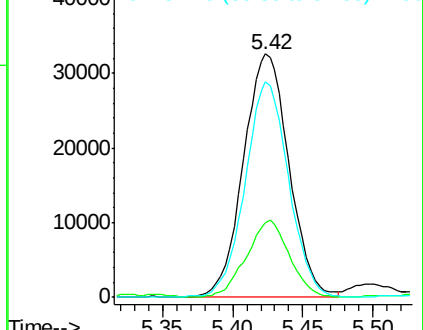
84 84.8 68.5 102.7



Abundance Ion 56.10 (55.80 to 56.80): VU038252.D (-1177) (-)

Ion 69.15 (68.85 to 69.85): VU038252.D (-1177) (-)

Ion 84.15 (83.85 to 84.85): VU038252.D (-1177) (-)



#33

Benzene

Concen: 34.706 ug/L

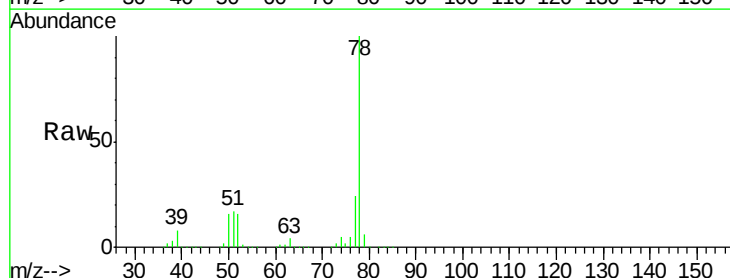
RT: 5.81 min Scan# 1390

Delta R.T. -0.00 min

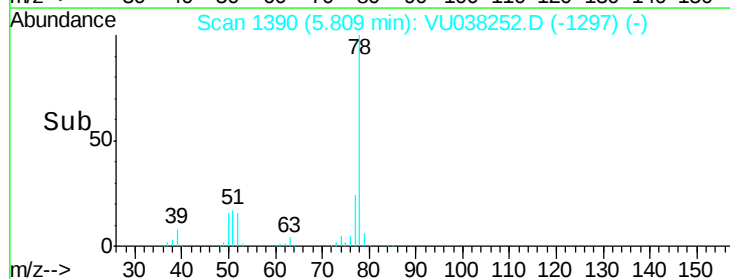
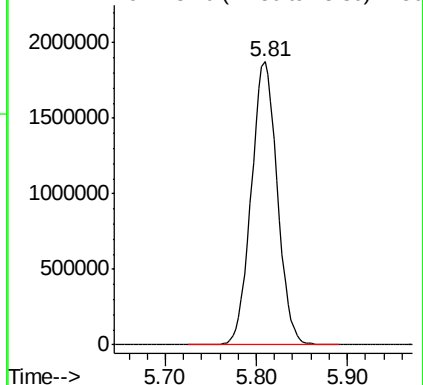
Lab File: VU038252.D

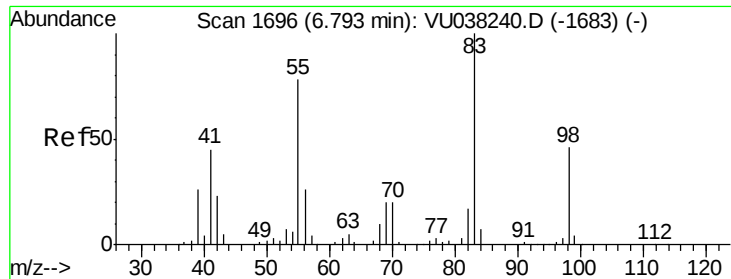
Acq: 20 May 2020 17:01

Tgt Ion: 78 Resp: 3724168



Abundance Ion 78.10 (77.80 to 78.80): VU038252.D (-1297) (-)

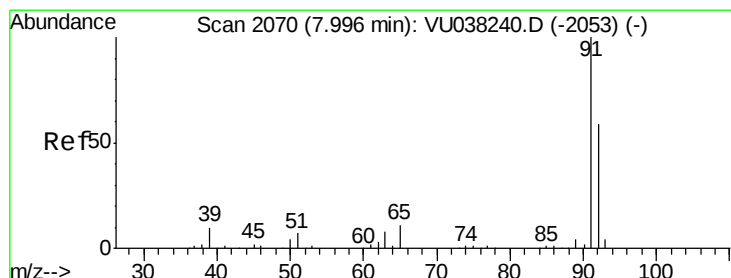
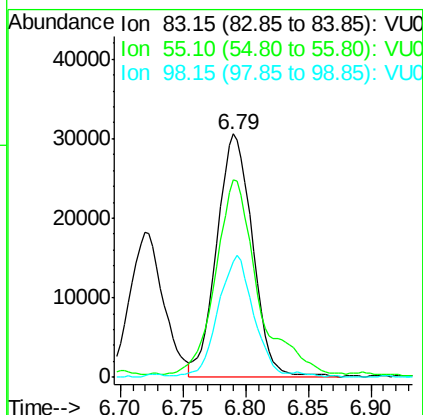
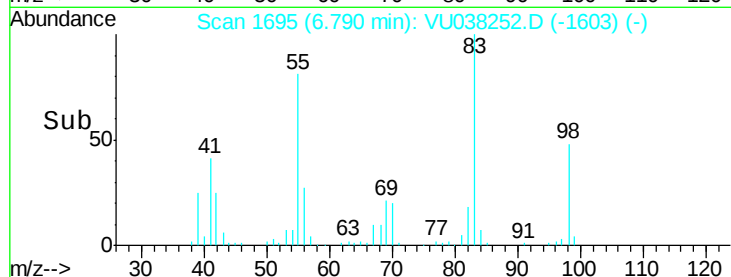
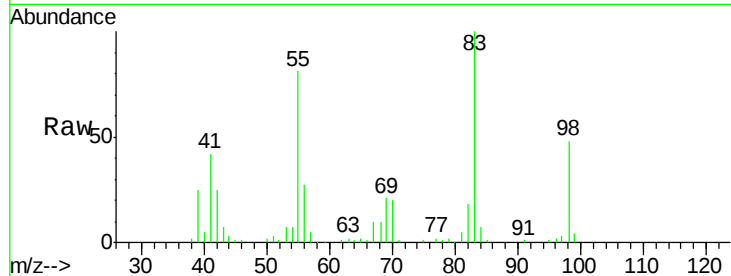




#35  
Methvlcvclohexane  
Concen: 1.397 ug/L  
RT: 6.79 min Scan# 1695  
Delta R.T. -0.00 min  
Lab File: VU038252.D  
Acq: 20 May 2020 17:01

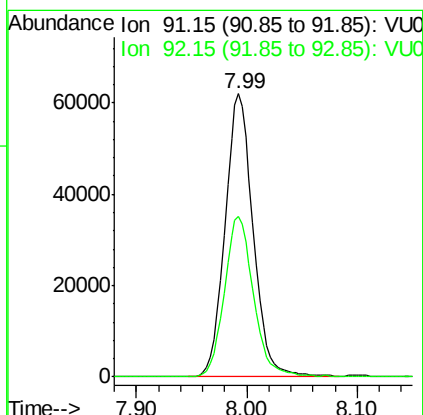
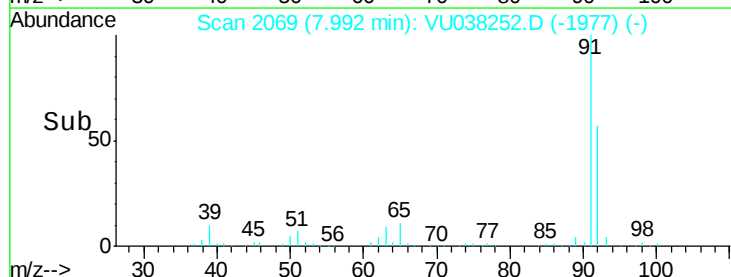
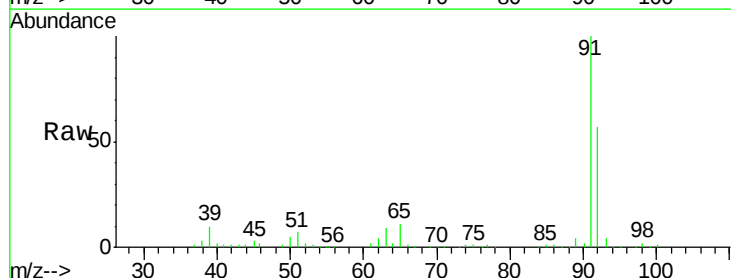
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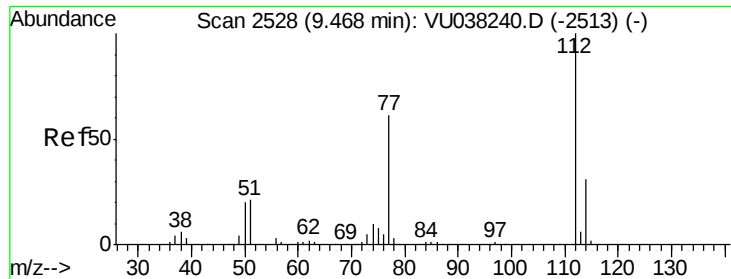
Tot Ion: 83 Resp: 60742  
Ion Ratio Lower Upper  
83 100  
55 94.0 66.7 100.1  
98 48.1 39.4 59.2



#42  
Toluene  
Concen: 0.964 ug/L  
RT: 7.99 min Scan# 2069  
Delta R.T. -0.00 min  
Lab File: VU038252.D  
Acq: 20 May 2020 17:01

Tgt Ion: 91 Resp: 109204  
Ion Ratio Lower Upper  
91 100  
92 56.8 40.9 75.9

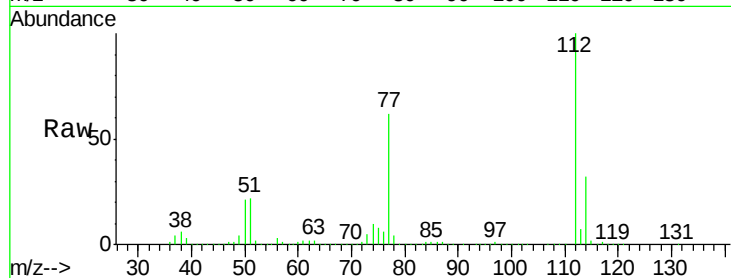




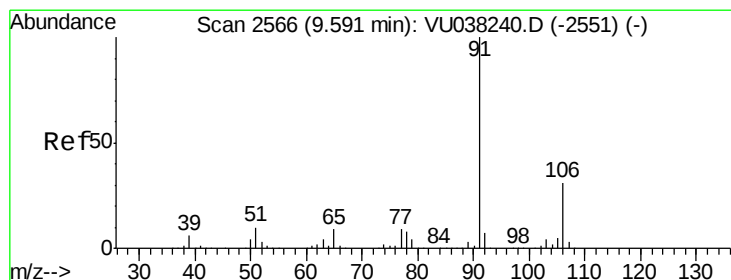
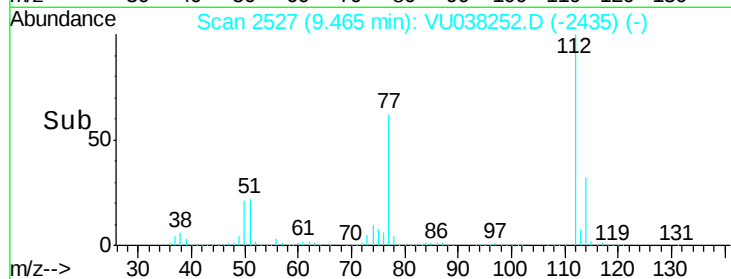
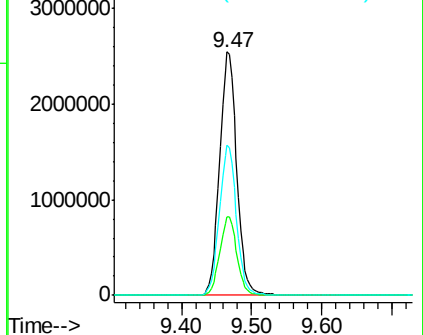
#51  
Chlorobenzene  
Concen: 61.359 ug/L  
RT: 9.47 min Scan# 2527  
Delta R.T. -0.00 min  
Lab File: VU038252.D  
Acq: 20 May 2020 17:01

Instrument :  
MSVOA\_U  
ClientSampleId :  
BE4T3

Tot Ion:112 Resp: 4313377  
Ion Ratio Lower Upper  
112 100  
114 32.2 22.5 41.7  
77 61.6 49.9 74.9

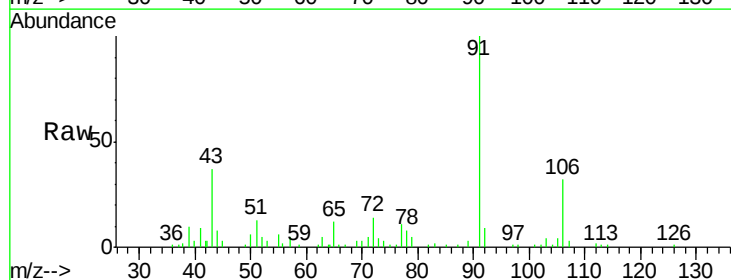


Abundance Ion 112.10 (111.80 to 112.80): V  
Ion 114.05 (113.75 to 114.75): V  
Ion 77.10 (76.80 to 77.80): V

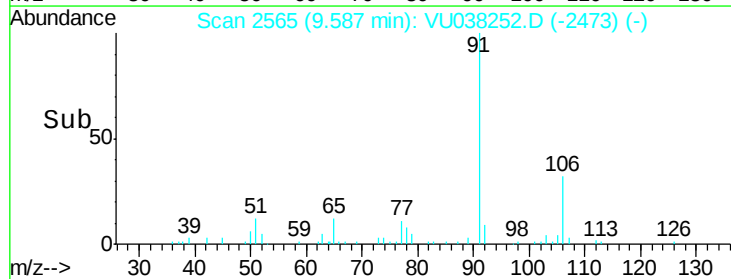
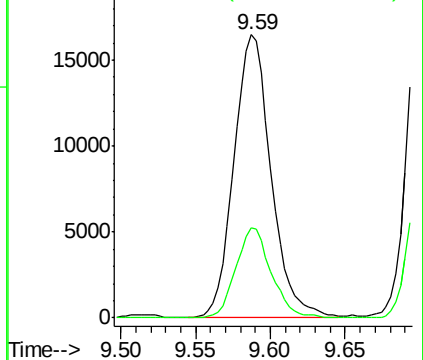


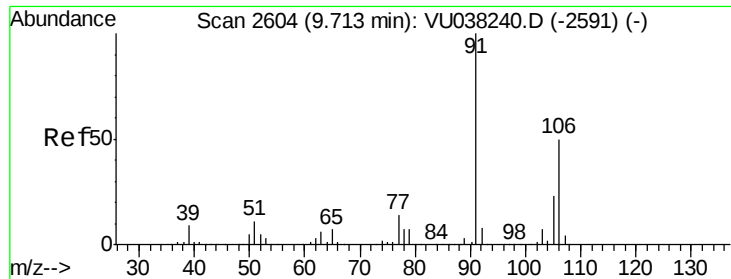
#52  
Ethylbenzene  
Concen: 0.233 ug/L  
RT: 9.59 min Scan# 2565  
Delta R.T. -0.00 min  
Lab File: VU038252.D  
Acq: 20 May 2020 17:01

Tgt Ion: 91 Resp: 28534  
Ion Ratio Lower Upper  
91 100  
106 31.7 21.8 40.4



Abundance Ion 91.15 (90.85 to 91.85): V  
Ion 106.15 (105.85 to 106.85): V





#53

m,p-Xylene

Concen: 0.676 ug/L

RT: 9.71 min Scan# 2603

Delta R.T. -0.00 min

Lab File: VU038252.D

Acq: 20 May 2020 17:01

Instrument :

MSVOA\_U

ClientSampleId :

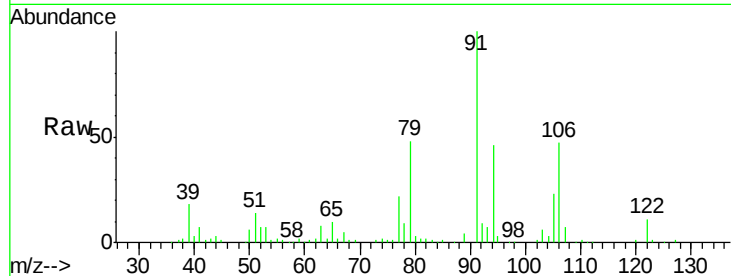
BE4T3

Tot Ion:106 Resp: 31807

Ion Ratio Lower Upper

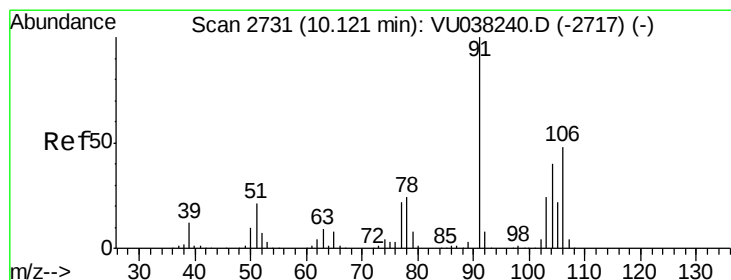
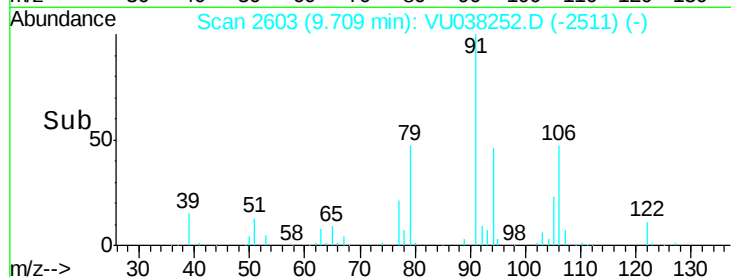
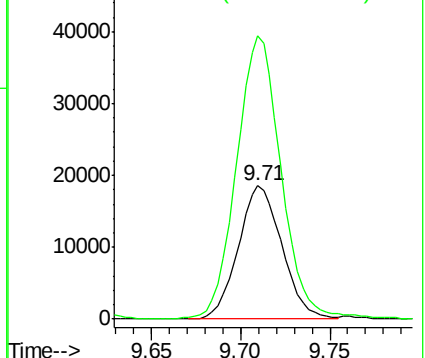
106 100

91 211.9 142.1 263.9



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#54

o-Xylene

Concen: 0.914 ug/L

RT: 10.11 min Scan# 2729

Delta R.T. -0.01 min

Lab File: VU038252.D

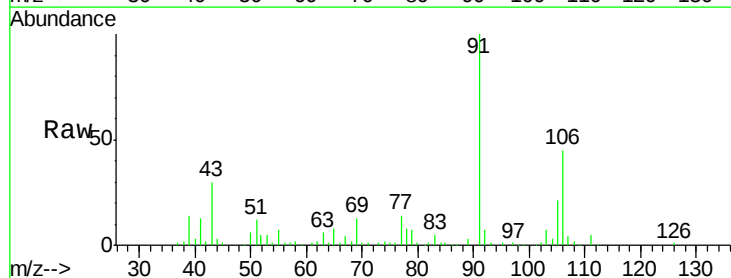
Acq: 20 May 2020 17:01

Tgt Ion:106 Resp: 41601

Ion Ratio Lower Upper

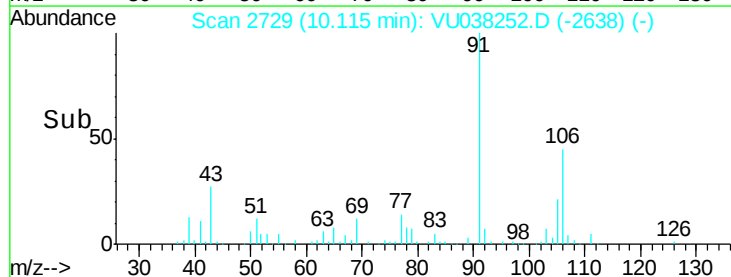
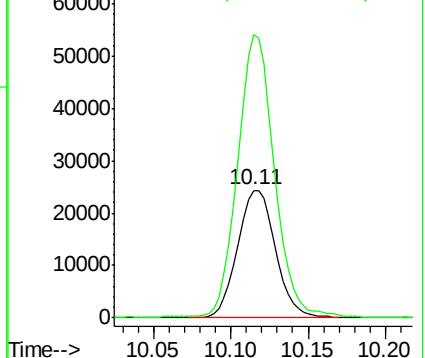
106 100

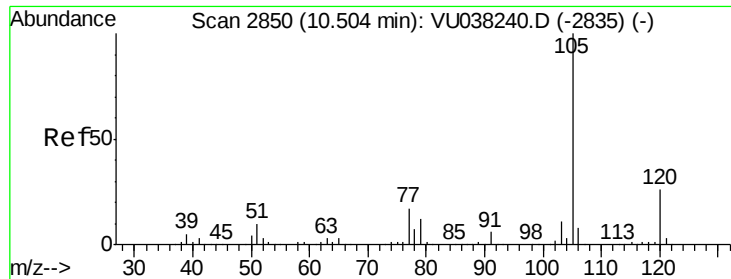
91 221.9 148.5 275.9



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0





#56

Isopropylbenzene

Concen: 4.278 ug/L

RT: 10.50 min Scan# 2849

Delta R.T. -0.00 min

Lab File: VU038252.D

Acq: 20 May 2020 17:01

Instrument :

MSVOA\_U

ClientSampleId :

BE4T3

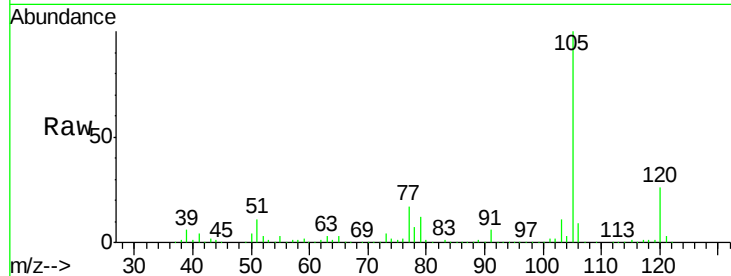
Tot Ion:105 Resp: 499907

Ion Ratio Lower Upper

105 100

120 26.2 21.0 31.6

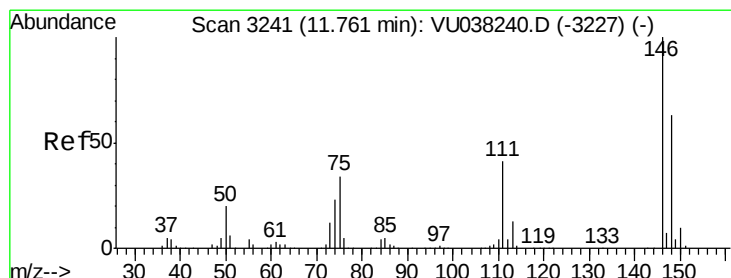
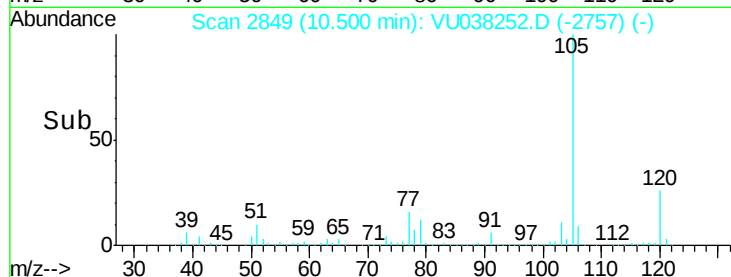
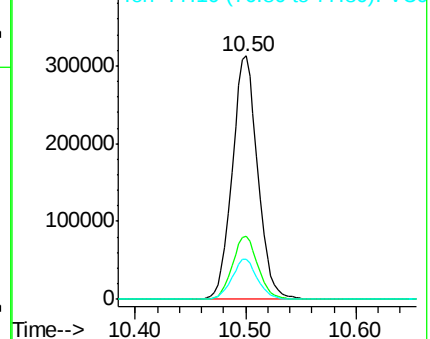
77 16.6 13.0 19.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#62

1,3-Dichlorobenzene

Concen: 0.428 ug/L

RT: 11.76 min Scan# 3240

Delta R.T. -0.00 min

Lab File: VU038252.D

Acq: 20 May 2020 17:01

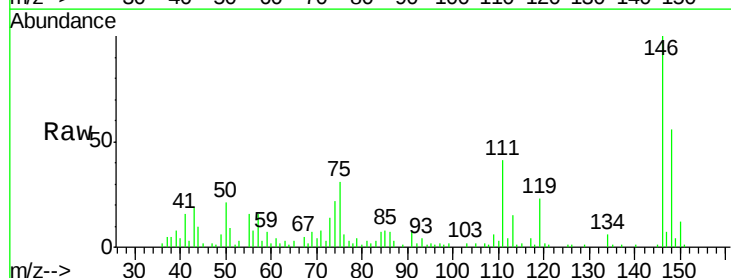
Tgt Ion:146 Resp: 23355

Ion Ratio Lower Upper

146 100

111 41.1 28.6 53.2

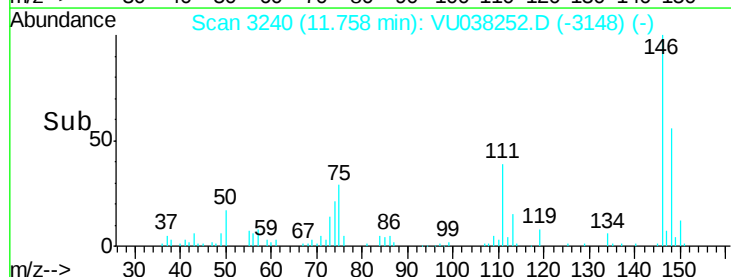
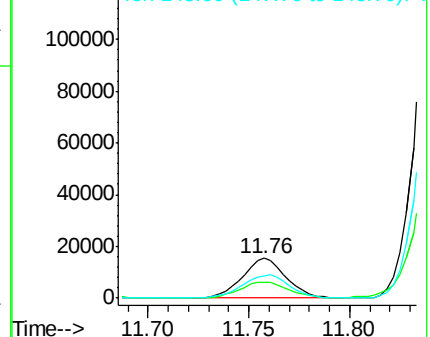
148 56.5 45.2 84.0

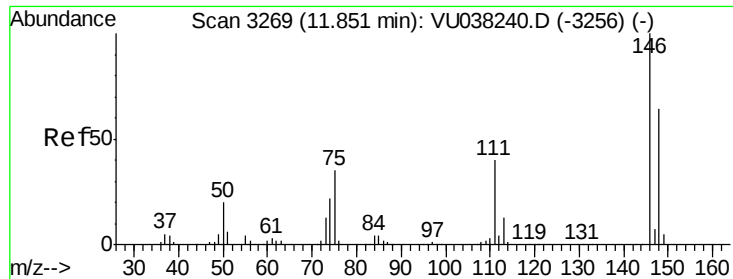


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

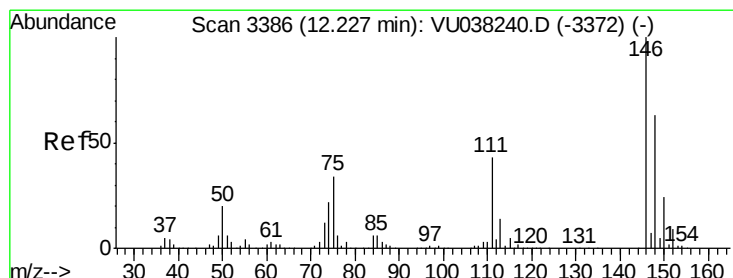
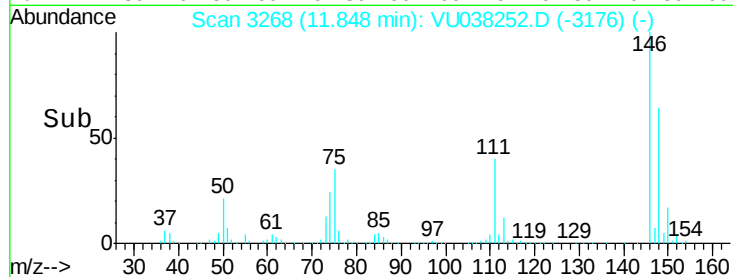
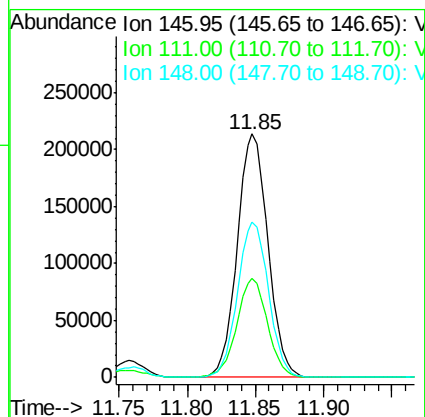
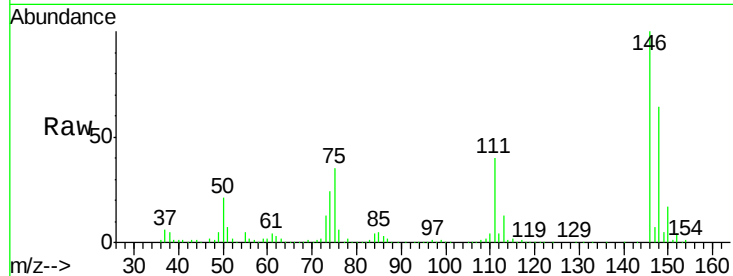




#63  
 1,4-Dichlorobenzene  
 Concen: 6.027 ug/L  
 RT: 11.85 min Scan# 3268  
 Delta R.T. -0.00 min  
 Lab File: VU038252.D  
 Acq: 20 May 2020 17:01

Instrument :  
 MSVOA\_U  
 ClientSampled :  
 BE4T3

Tot Ion:146 Resp: 333405  
 Ion Ratio Lower Upper  
 146 100  
 111 40.4 27.2 50.6  
 148 63.8 43.8 81.3



#65  
 1,2-Dichlorobenzene  
 Concen: 1.182 ug/L  
 RT: 12.22 min Scan# 3385  
 Delta R.T. -0.00 min  
 Lab File: VU038252.D  
 Acq: 20 May 2020 17:01

Tgt Ion:146 Resp: 62075  
 Ion Ratio Lower Upper  
 146 100  
 111 44.4 35.3 52.9  
 148 63.9 51.0 76.4

