

Data File : VU032534.D  
Acq On : 07 Jun 2019 11:32  
Operator : JC/SP  
Sample : K3215-13DL 20X  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
DB8J8DL

Quant Time: Jun 07 22:22:49 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM060619WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Jun 07 22:19:39 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 212402   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.08  | 117  | 198104   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 102946   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 76735    | 55.68    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 111.36% |
| 7) Chloroethane-d5             | 1.68    | 69    | 59112    | 53.38    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 106.76% |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 109173   | 40.46    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 80.92%  |
| 21) 2-Butanone-d5              | 4.17    | 46    | 118628   | 102.87   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 102.87% |
| 24) Chloroform-d               | 4.64    | 84    | 129994   | 50.58    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 101.16% |
| 26) 1,2-Dichloroethane-d4      | 5.30    | 65    | 85352    | 52.72    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 105.44% |
| 32) Benzene-d6                 | 5.33    | 84    | 275625   | 53.59    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 107.18% |
| 36) 1,2-Dichloropropane-d6     | 6.32    | 67    | 85199    | 52.83    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 105.66% |
| 41) Toluene-d8                 | 7.56    | 98    | 256392   | 52.58    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 105.16% |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 39099    | 50.66    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 101.32% |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 86015    | 109.96   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 109.96% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 124843   | 53.43    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 106.86% |
| 64) 1,2-Dichlorobenzene-d4     | 11.85   | 152   | 104339   | 52.92    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 105.84% |

#### Target Compounds

|                                |       |     |        |               | Qvalue |
|--------------------------------|-------|-----|--------|---------------|--------|
| 5) Vinyl chloride              | 1.40  | 62  | 1321   | 0.715 ug/L #  | 1      |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.27  | 101 | 820    | 0.632 ug/L #  | 18     |
| 12) 1,1-Dichloroethene         | 2.27  | 96  | 827    | 0.656 ug/L #  | 1      |
| 13) Acetone                    | 2.31  | 43  | 83173  | 69.898 ug/L   | 99     |
| 20) cis-1,2-Dichloroethene     | 4.23  | 96  | 953    | 0.617 ug/L    | 83     |
| 33) Benzene                    | 5.39  | 78  | 9001   | 1.617 ug/L    | 100    |
| 39) cis-1,3-Dichloropropene    | 7.22  | 75  | 2615   | 1.123 ug/L #  | 75     |
| 40) 4-Methyl-2-pentanone       | 7.46  | 43  | 16858  | 7.102 ug/L    | 98     |
| 42) Toluene                    | 7.63  | 91  | 28194  | 4.625 ug/L    | 99     |
| 44) trans-1,3-Dichloropropene  | 7.85  | 75  | 2036   | 0.985 ug/L    | 99     |
| 48) 2-Hexanone                 | 8.31  | 43  | 120003 | 61.551 ug/L # | 42     |
| 52) Ethylbenzene               | 9.25  | 91  | 10242  | 1.507 ug/L    | 98     |
| 53) m,p-Xylene                 | 9.37  | 106 | 10771  | 4.169 ug/L    | 95     |
| 54) o-xylene                   | 9.77  | 106 | 6649   | 2.592 ug/L    | 96     |
| 56) Isopropylbenzene           | 10.16 | 105 | 4055   | 0.599 ug/L    | 96     |
| 69) Naphthalene                | 13.75 | 128 | 12392  | 1.914 ug/L    | 97     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU060719\  
Quantitation Report (Not Reviewed)

Data File : VU032534.D  
Acq On : 07 Jun 2019 11:32  
Operator : JC/SP  
Sample : K3215-13DL 20X  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
DB8J8DL

Quant Time: Jun 07 22:22:49 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM060619WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Jun 07 22:19:39 2019  
Response via : Initial Calibration

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

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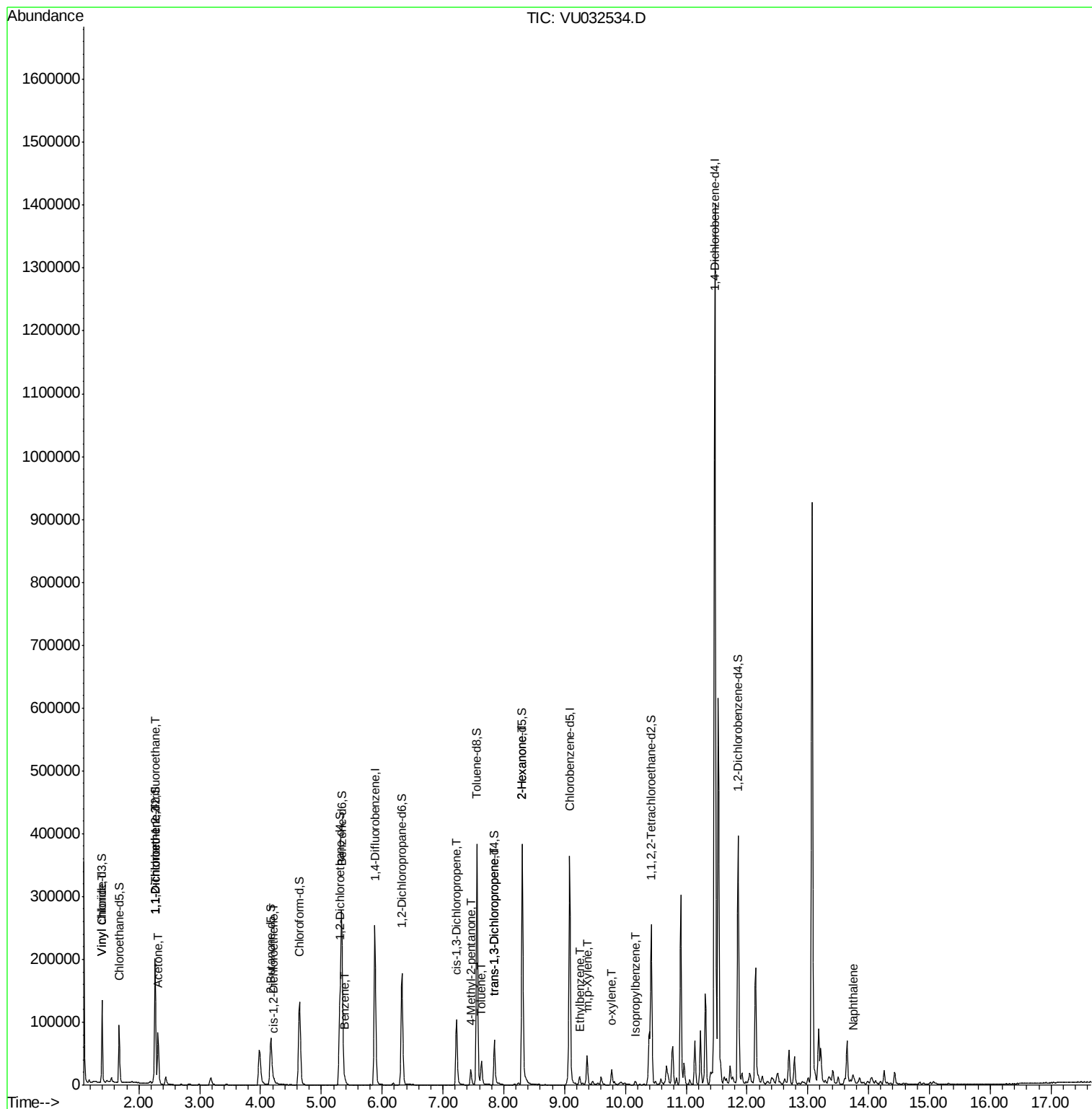
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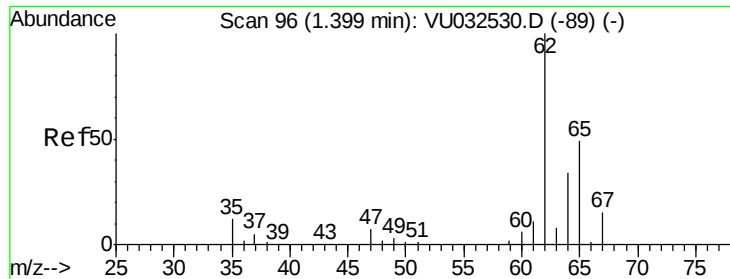
Data File : VU032534.D

```
Acq On       : 07 Jun 2019   11:32
Operator     : JC/SP
Sample       : K3215-13DL 20X
Misc         : 5.0mL/MSVOA_U/WATER
ALS Vial     : 6      Sample Multiplier: 1
```

**Instrument :**  
MSVOA\_U  
**ClientSampleId :**  
DB8J8DL

Quant Time: Jun 07 22:22:49 2019  
Quant Method : Z:\V\OASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM060619WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Jun 07 22:19:39 2019  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 0.715 ug/L

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU032534.D

Acq: 07 Jun 2019 11:32

Instrument :

MSVOA\_U

ClientSampleId :

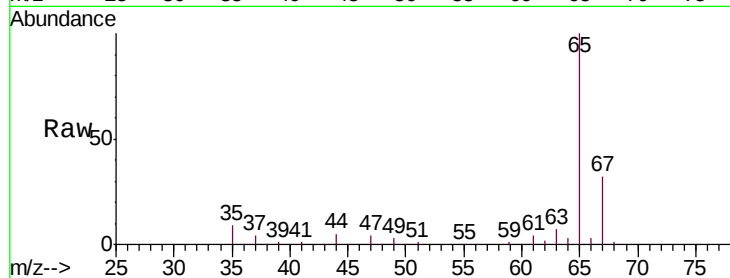
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Tgt Ion: 62 Resp: 1321

Ion Ratio Lower Upper

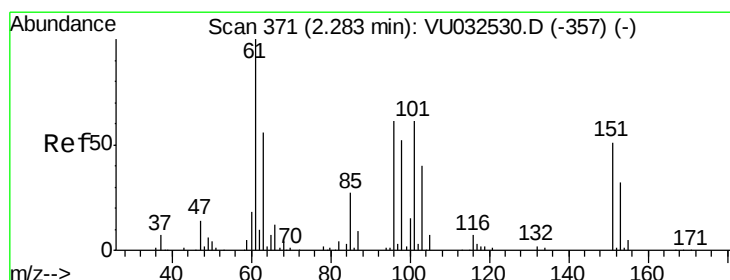
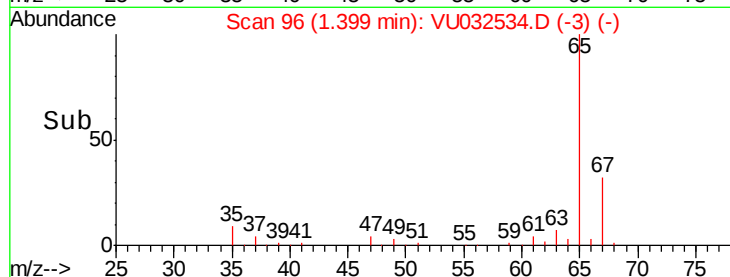
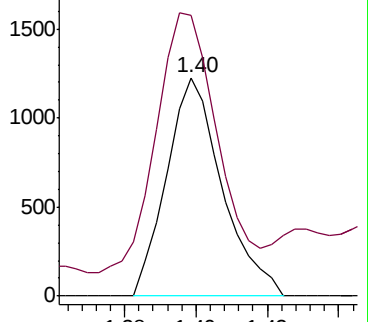
62 100

64 128.5 22.6 42.0#



Abundance Ion 62.00 (61.70 to 62.70): VU032530.D (-89) (-)

Ion 64.00 (63.70 to 64.70): VU032530.D (-89) (-)



#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.632 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.01 min

Lab File: VU032534.D

Acq: 07 Jun 2019 11:32

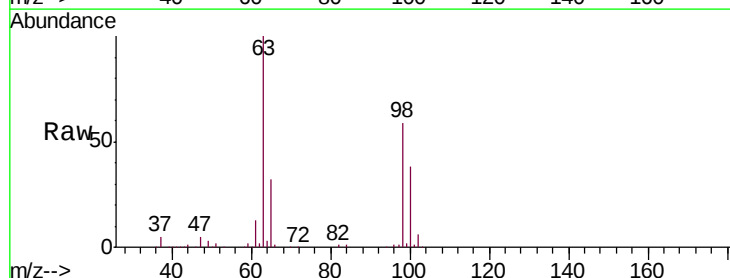
Tgt Ion: 101 Resp: 820

Ion Ratio Lower Upper

101 100

85 0.0 36.1 54.1#

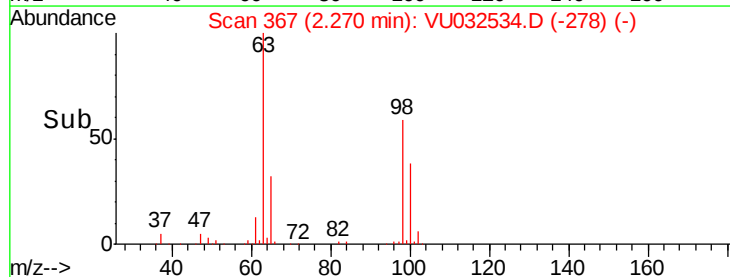
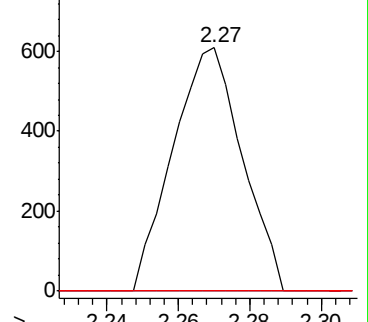
151 0.0 63.0 94.4#

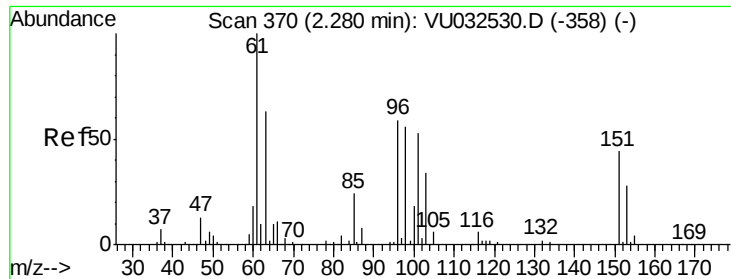


Abundance Ion 101.00 (100.70 to 101.70): VU032530.D (-357) (-)

Ion 85.00 (84.70 to 85.70): VU032530.D (-357) (-)

Ion 151.00 (150.70 to 151.70): VU032530.D (-357) (-)

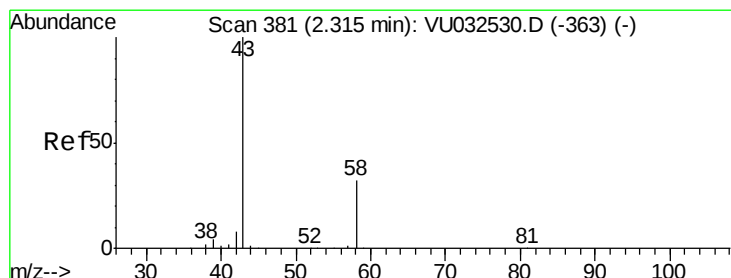
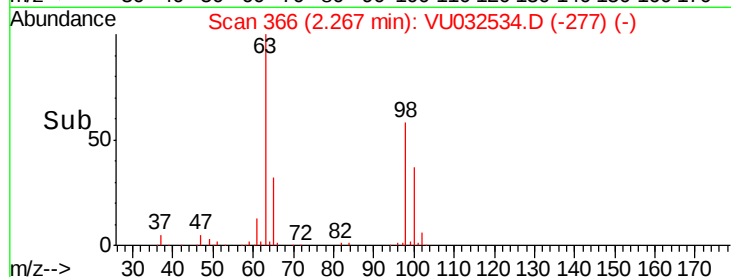
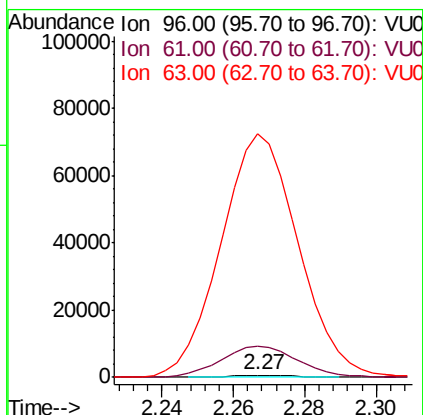
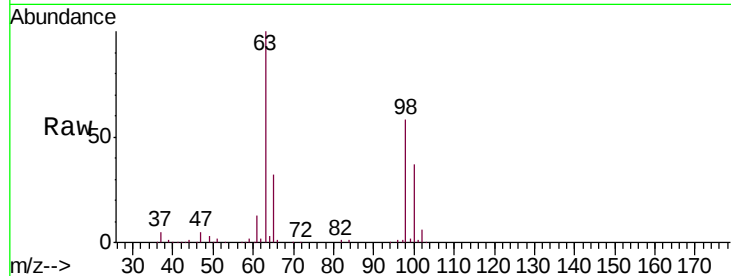




#12  
 1,1-Dichloroethene  
 Concen: 0.656 ug/L  
 RT: 2.27 min Scan# 366  
 Delta R.T. -0.01 min  
 Lab File: VU032534.D  
 Acq: 07 Jun 2019 11:32

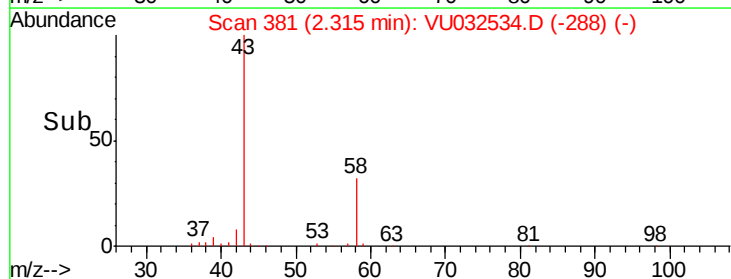
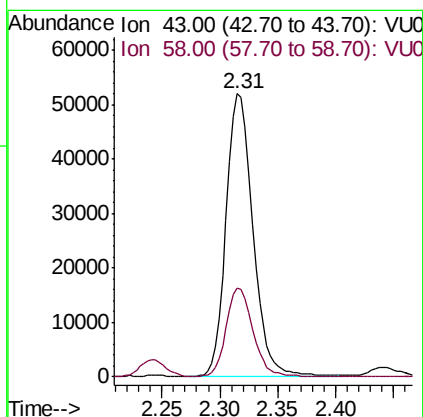
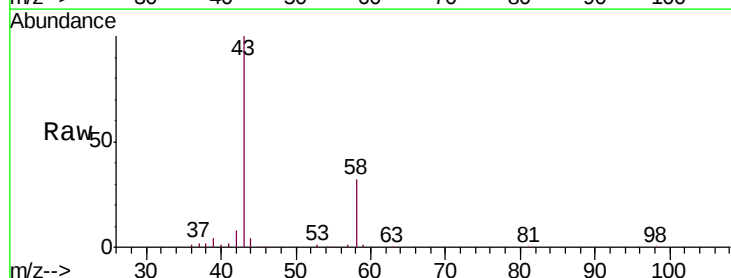
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 DB8J8DL

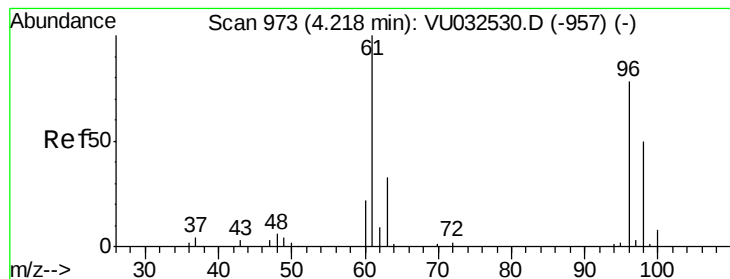
Tgt Ion: 96 Resp: 827  
 Ion Ratio Lower Upper  
 96 100  
 61 1644.1 129.5 240.5#  
 63 12682.3 103.4 192.0#



#13  
 Acetone  
 Concen: 69.898 ug/L  
 RT: 2.31 min Scan# 381  
 Delta R.T. 0.00 min  
 Lab File: VU032534.D  
 Acq: 07 Jun 2019 11:32

Tgt Ion: 43 Resp: 83173  
 Ion Ratio Lower Upper  
 43 100  
 58 31.2 0.0 64.0





#20

cis-1,2-Dichloroethene

Concen: 0.617 ug/L

RT: 4.23 min Scan# 976

Delta R.T. 0.01 min

Lab File: VU032534.D

Acq: 07 Jun 2019 11:32

Instrument :

MSVOA\_U

ClientSampleId :

DB8J8DL

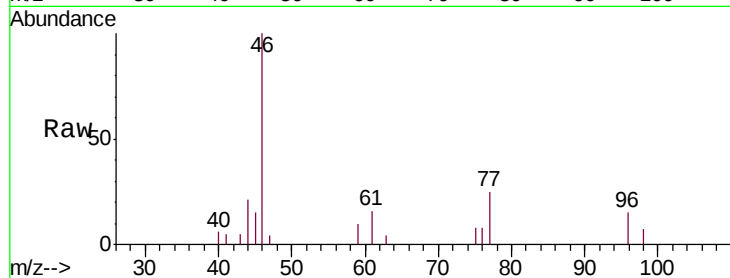
Tgt Ion: 96 Resp: 953

Ion Ratio Lower Upper

96 100

61 105.6 87.2 162.0

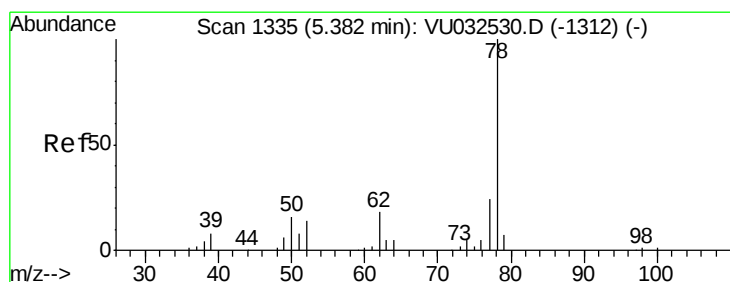
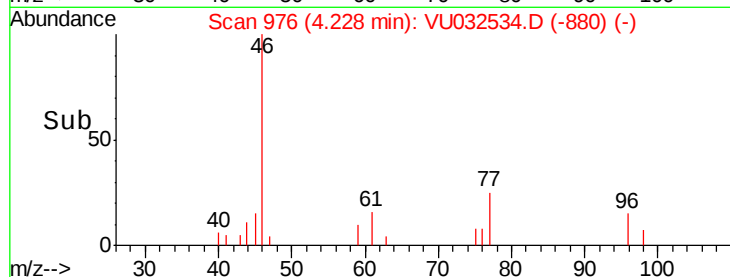
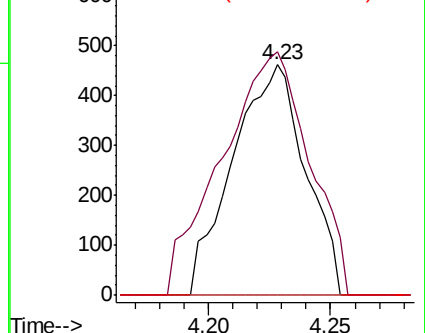
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 68.00 (67.70 to 68.70): VU0



#33

Benzene

Concen: 1.617 ug/L

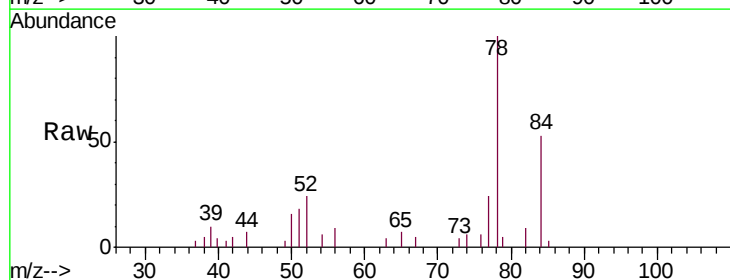
RT: 5.39 min Scan# 1336

Delta R.T. 0.00 min

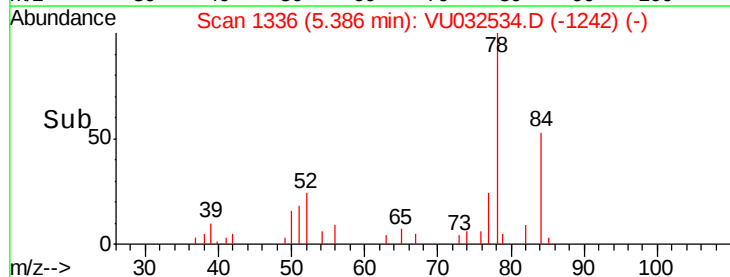
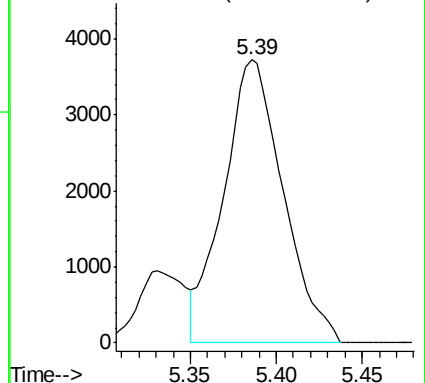
Lab File: VU032534.D

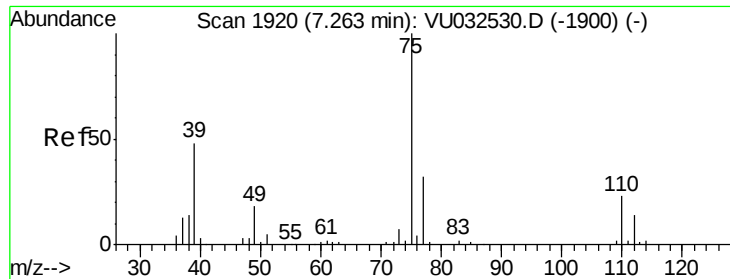
Acq: 07 Jun 2019 11:32

Tgt Ion: 78 Resp: 9001



Abundance Ion 78.00 (77.70 to 78.70): VU0

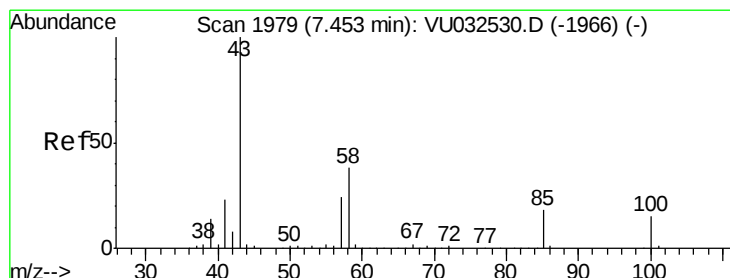
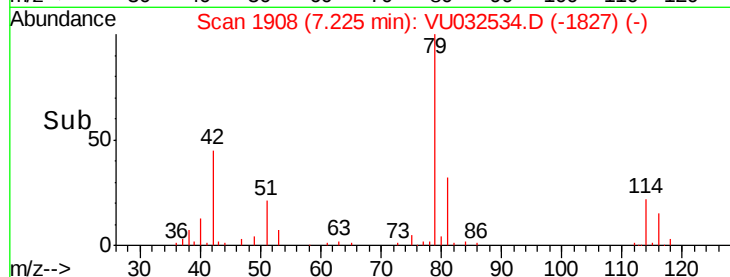
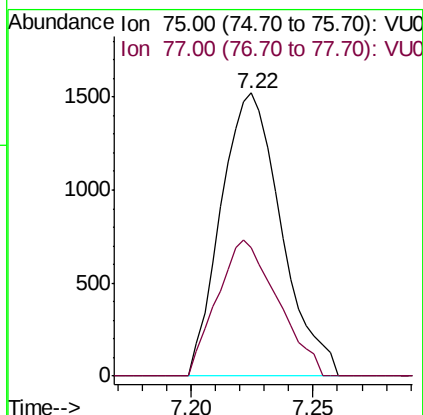
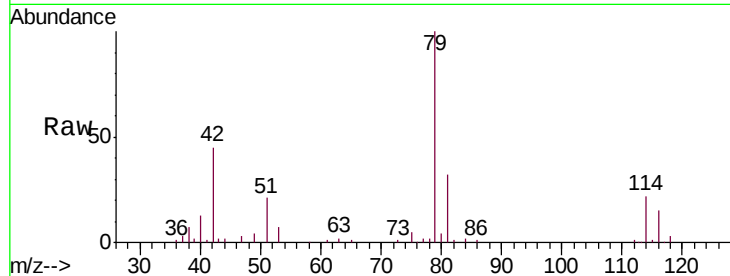




#39  
 cis-1,3-Dichloropropene  
 Concen: 1.123 ug/L  
 RT: 7.22 min Scan# 1908  
 Delta R.T. -0.04 min  
 Lab File: VU032534.D  
 Acq: 07 Jun 2019 11:32

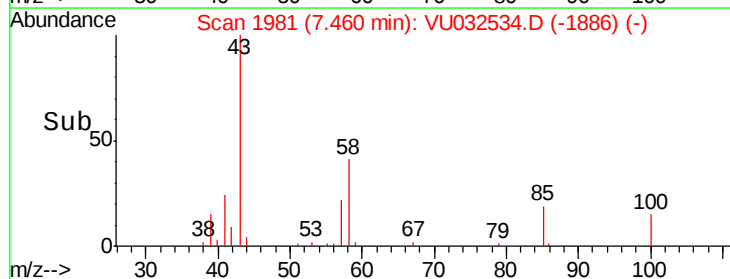
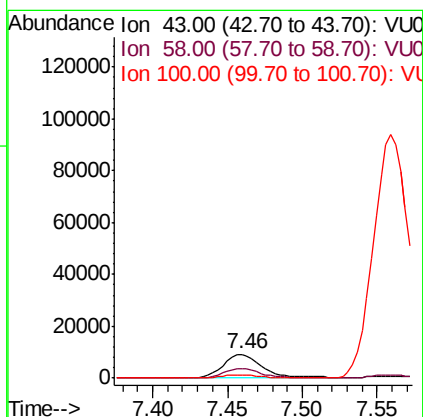
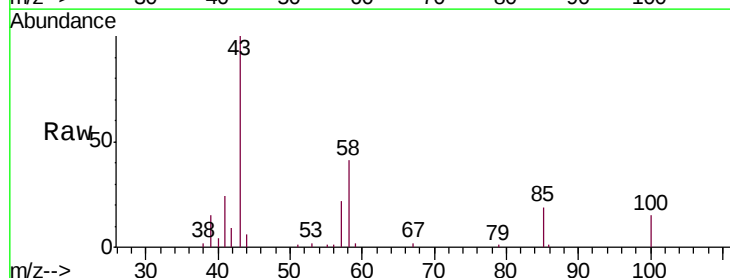
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 DB8J8DL

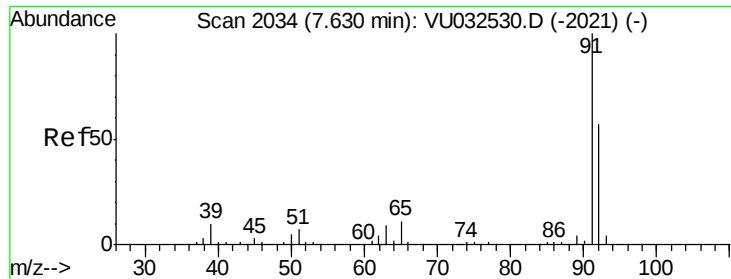
Tgt Ion: 75 Resp: 2615  
 Ion Ratio Lower Upper  
 75 100  
 77 45.3 22.0 41.0#



#40  
 4-Methyl-2-pentanone  
 Concen: 7.102 ug/L  
 RT: 7.46 min Scan# 1981  
 Delta R.T. 0.01 min  
 Lab File: VU032534.D  
 Acq: 07 Jun 2019 11:32

Tgt Ion: 43 Resp: 16858  
 Ion Ratio Lower Upper  
 43 100  
 58 39.1 30.8 46.2  
 100 13.6 12.1 18.1





#42

Toluene

Concen: 4.625 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU032534.D

Acq: 07 Jun 2019 11:32

Instrument :

MSVOA\_U

ClientSampleId :

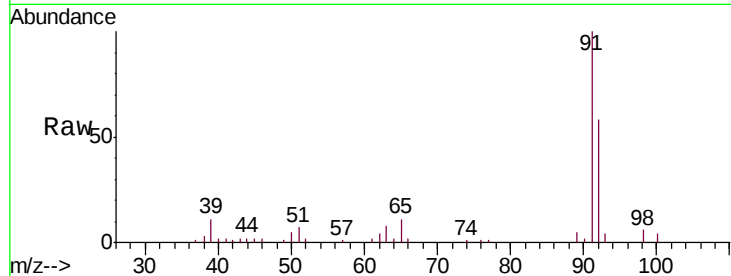
DB8J8DL

Tgt Ion: 91 Resp: 28194

Ion Ratio Lower Upper

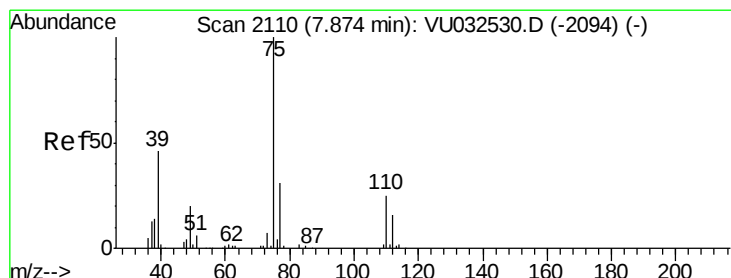
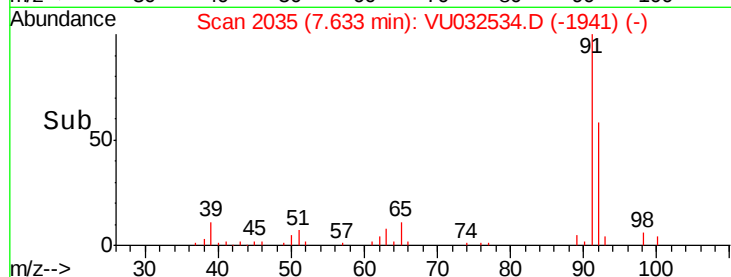
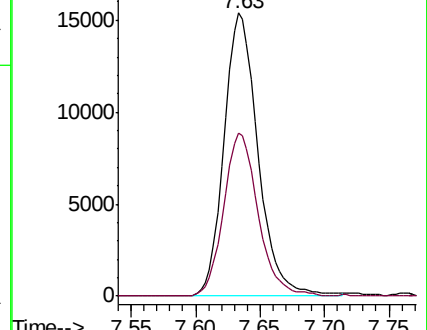
91 100

92 57.6 39.7 73.7



Abundance Ion 91.00 (90.70 to 91.70): VU032530.D (-2021) (-)

Ion 92.00 (91.70 to 92.70): VU032530.D (-2021) (-)



#44

trans-1,3-Dichloropropene

Concen: 0.985 ug/L

RT: 7.85 min Scan# 2102

Delta R.T. -0.03 min

Lab File: VU032534.D

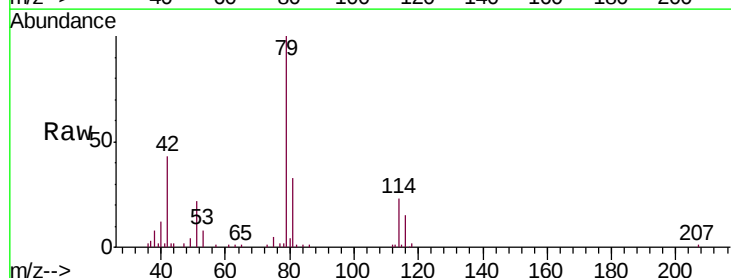
Acq: 07 Jun 2019 11:32

Tgt Ion: 75 Resp: 2036

Ion Ratio Lower Upper

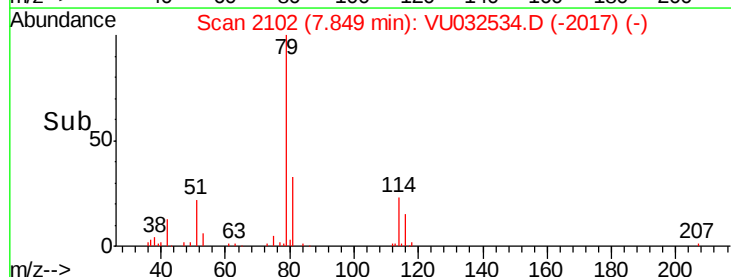
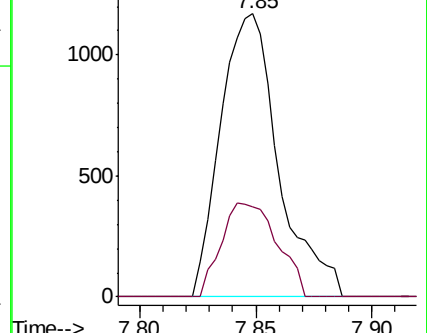
75 100

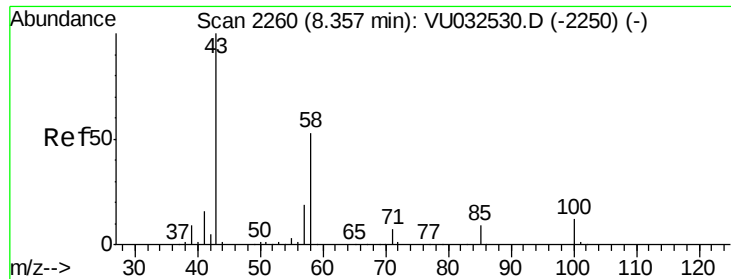
77 31.9 22.1 41.1



Abundance Ion 75.00 (74.70 to 75.70): VU032530.D (-2094) (-)

Ion 77.00 (76.70 to 77.70): VU032530.D (-2094) (-)

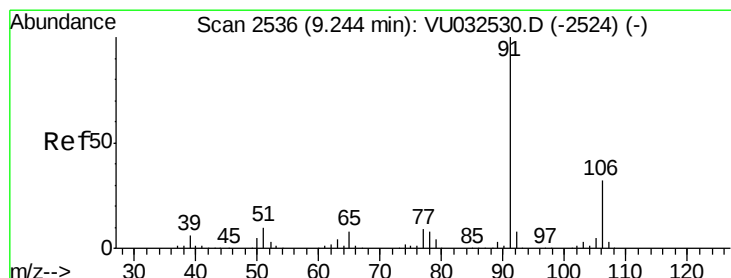
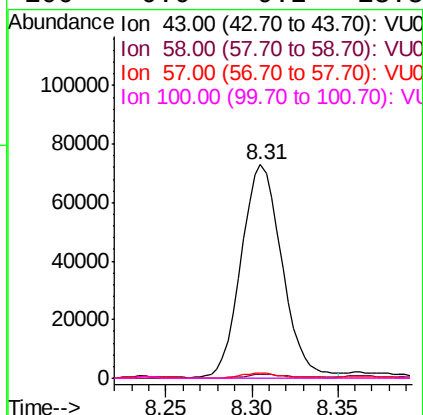
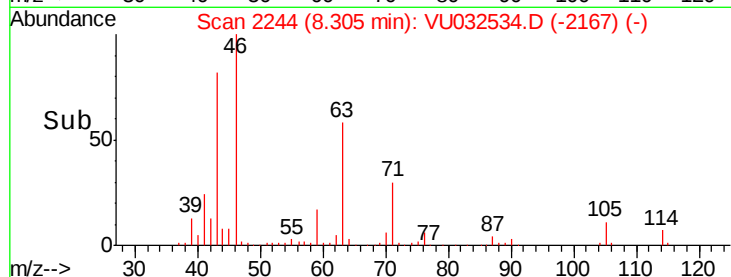
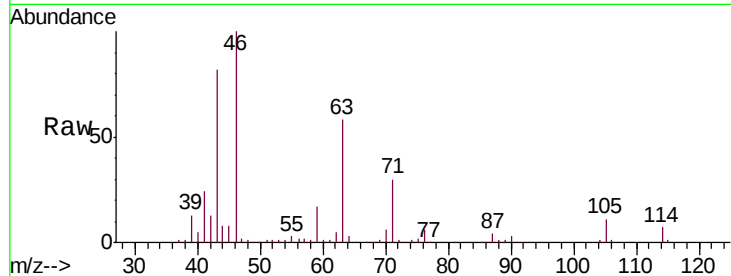




#48  
2-Hexanone  
Concen: 61.551 ug/L  
RT: 8.31 min Scan# 2244  
Delta R.T. -0.05 min  
Lab File: VU032534.D  
Acq: 07 Jun 2019 11:32

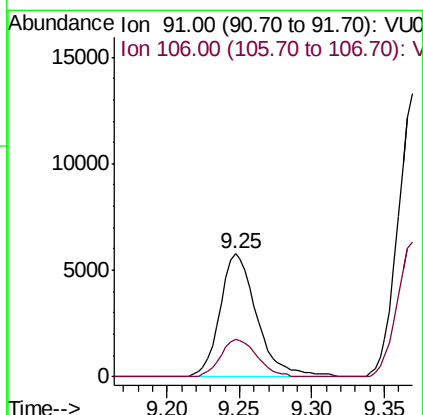
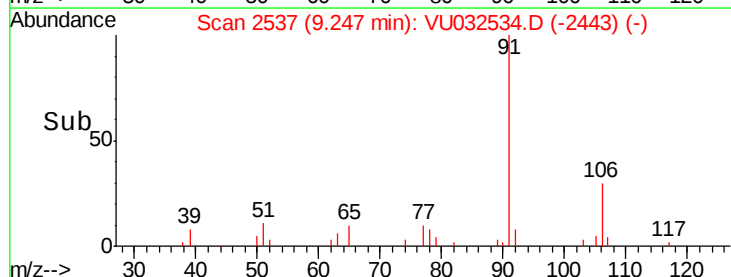
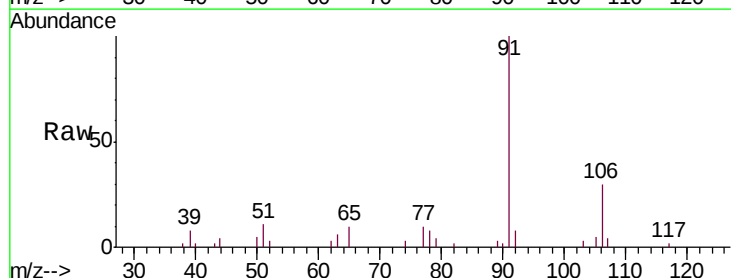
Instrument :  
MSVOA\_U  
ClientSampled :  
DB8J8DL

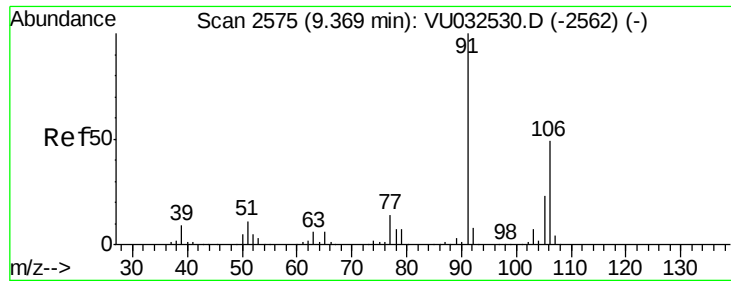
Tgt Ion: 43 Resp: 120003  
Ion Ratio Lower Upper  
43 100  
58 1.9 42.0 63.0#  
57 2.1 14.6 22.0#  
100 0.0 9.2 13.8#



#52  
Ethylbenzene  
Concen: 1.507 ug/L  
RT: 9.25 min Scan# 2537  
Delta R.T. 0.00 min  
Lab File: VU032534.D  
Acq: 07 Jun 2019 11:32

Tgt Ion: 91 Resp: 10242  
Ion Ratio Lower Upper  
91 100  
106 30.2 22.0 41.0

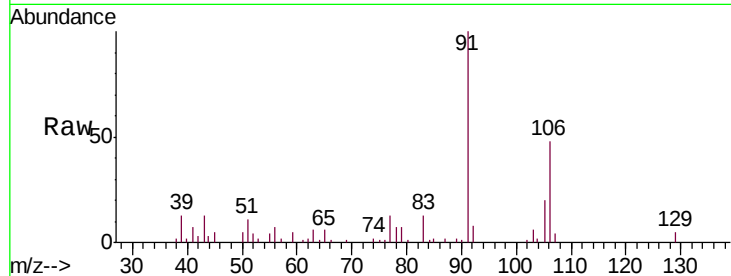




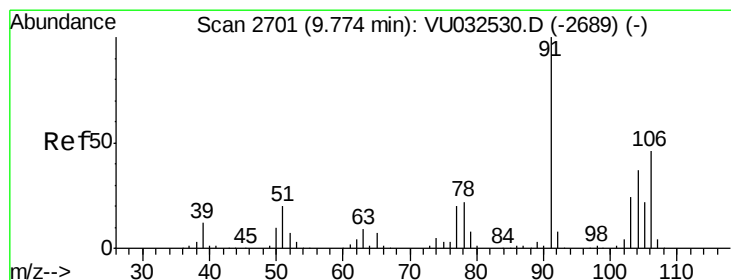
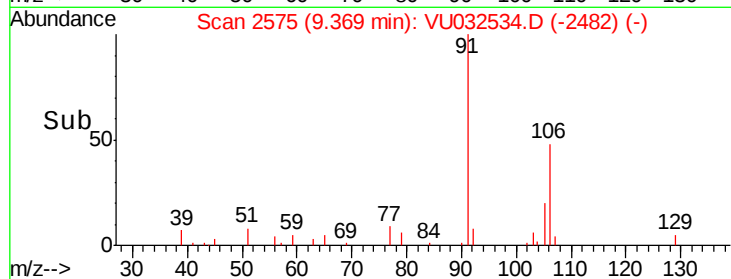
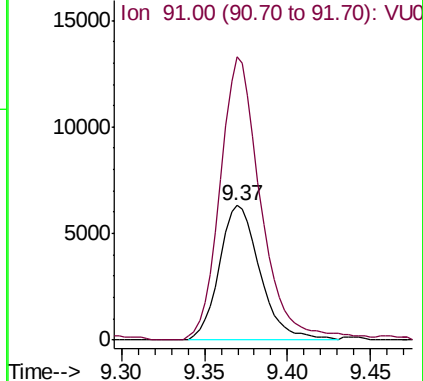
#53  
m,p-Xylene  
Concen: 4.169 ug/L  
RT: 9.37 min Scan# 2575  
Delta R.T. 0.00 min  
Lab File: VU032534.D  
Acq: 07 Jun 2019 11:32

Instrument :  
MSVOA\_U  
ClientSampleId :  
DB8J8DL

Tgt Ion:106 Resp: 10771  
Ion Ratio Lower Upper  
106 100  
91 210.1 141.7 263.1

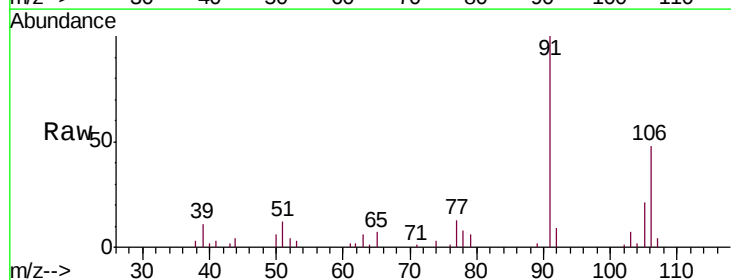


Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VU0

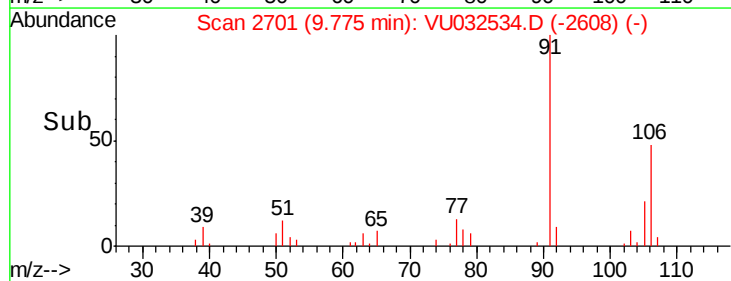
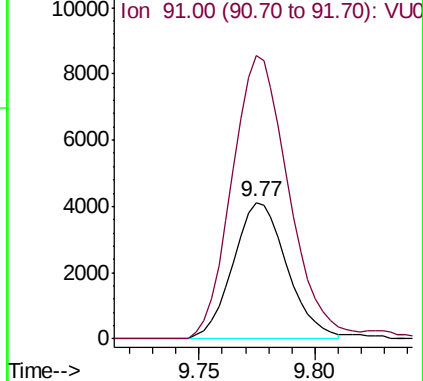


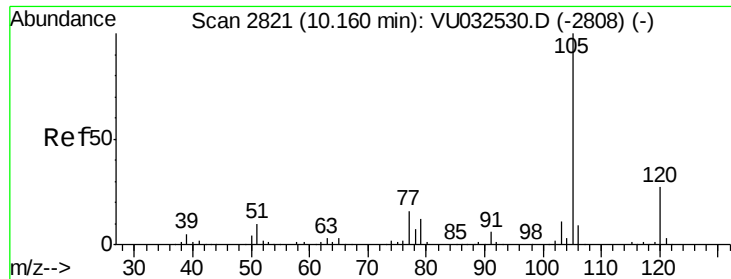
#54  
o-xylene  
Concen: 2.592 ug/L  
RT: 9.77 min Scan# 2701  
Delta R.T. 0.00 min  
Lab File: VU032534.D  
Acq: 07 Jun 2019 11:32

Tgt Ion:106 Resp: 6649  
Ion Ratio Lower Upper  
106 100  
91 207.8 150.1 278.7



Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VU0





#56

Isopropylbenzene

Concen: 0.599 ug/L

RT: 10.16 min Scan# 2821

Delta R.T. 0.00 min

Lab File: VU032534.D

Acq: 07 Jun 2019 11:32

Instrument :

MSVOA\_U

ClientSampleId :

DB8J8DL

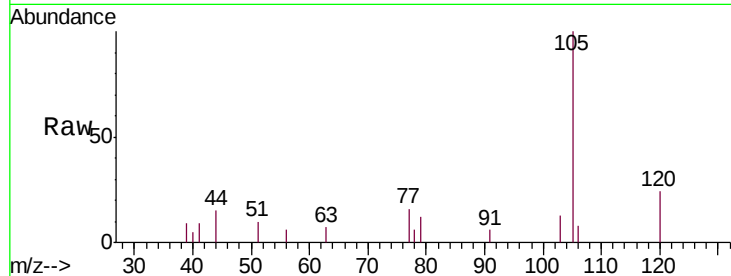
Tgt Ion:105 Resp: 4055

Ion Ratio Lower Upper

105 100

120 23.5 21.6 32.4

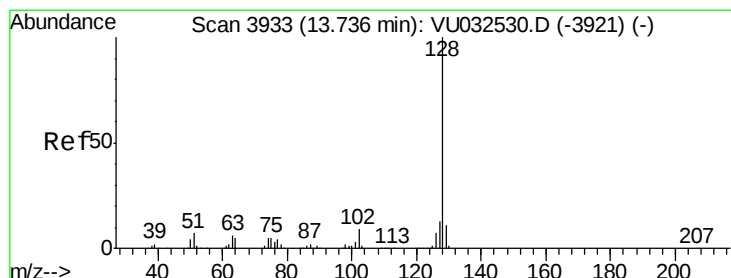
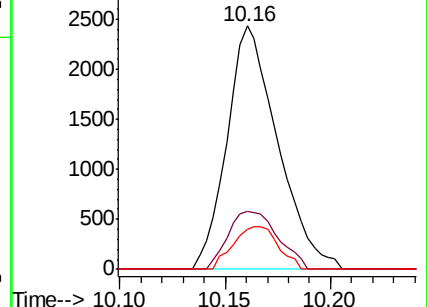
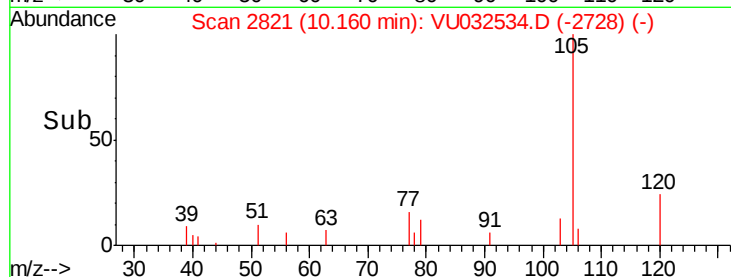
77 15.5 12.4 18.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#69

Naphthalene

Concen: 1.914 ug/L

RT: 13.75 min Scan# 3936

Delta R.T. 0.01 min

Lab File: VU032534.D

Acq: 07 Jun 2019 11:32

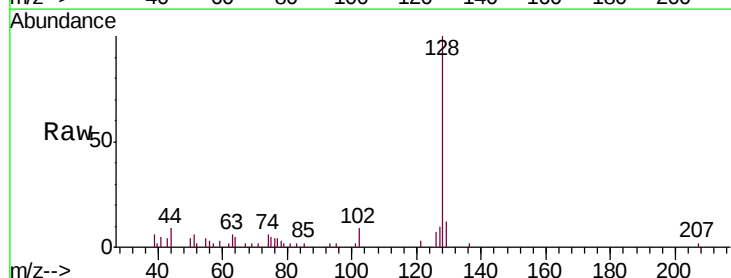
Tgt Ion:128 Resp: 12392

Ion Ratio Lower Upper

128 100

127 11.6 10.4 15.6

129 9.5 8.5 12.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

