

Data File : VU032226.D  
Acq On : 22 May 2019 16:44  
Operator : JC/SP  
Sample : K2889-04DL 10X  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
C0BM1DL

Quant Time: May 23 01:50:49 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR052219WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Thu May 23 01:46:44 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 408477   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 404521   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 166310   | 5.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40   | 65    | 124024   | 5.41     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 108.20% |
| 7) Chloroethane-d5             | 1.68   | 69    | 100816   | 4.71     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 94.20%  |
| 11) 1,1-Dichloroethene-d2      | 2.27   | 63    | 181825   | 4.30     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 86.00%  |
| 20) 2-Butanone-d5              | 4.20   | 46    | 262476   | 40.56    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 81.12%  |
| 24) Chloroform-d               | 4.64   | 84    | 227673   | 3.88     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 77.60%  |
| 26) 1,2-Dichloroethane-d4      | 5.31   | 65    | 114089   | 3.68     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 73.60%  |
| 32) Benzene-d6                 | 5.33   | 84    | 471430   | 4.11     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 82.20%  |
| 36) 1,2-Dichloropropane-d6     | 6.33   | 67    | 137073   | 3.68     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 73.60%  |
| 41) Toluene-d8                 | 7.56   | 98    | 405506   | 3.64     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 72.80%  |
| 43) trans-1,3-Dichloropropene- | 7.85   | 79    | 45932    | 3.20     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 64.00%  |
| 46) 2-Hexanone-d5              | 8.31   | 63    | 222012   | 41.16    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 82.32%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43  | 84    | 109652   | 2.96     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 59.20%# |
| 64) 1,2-Dichlorobenzene-d4     | 11.85  | 152   | 147872   | 3.23     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 64.60%# |

#### Target Compounds

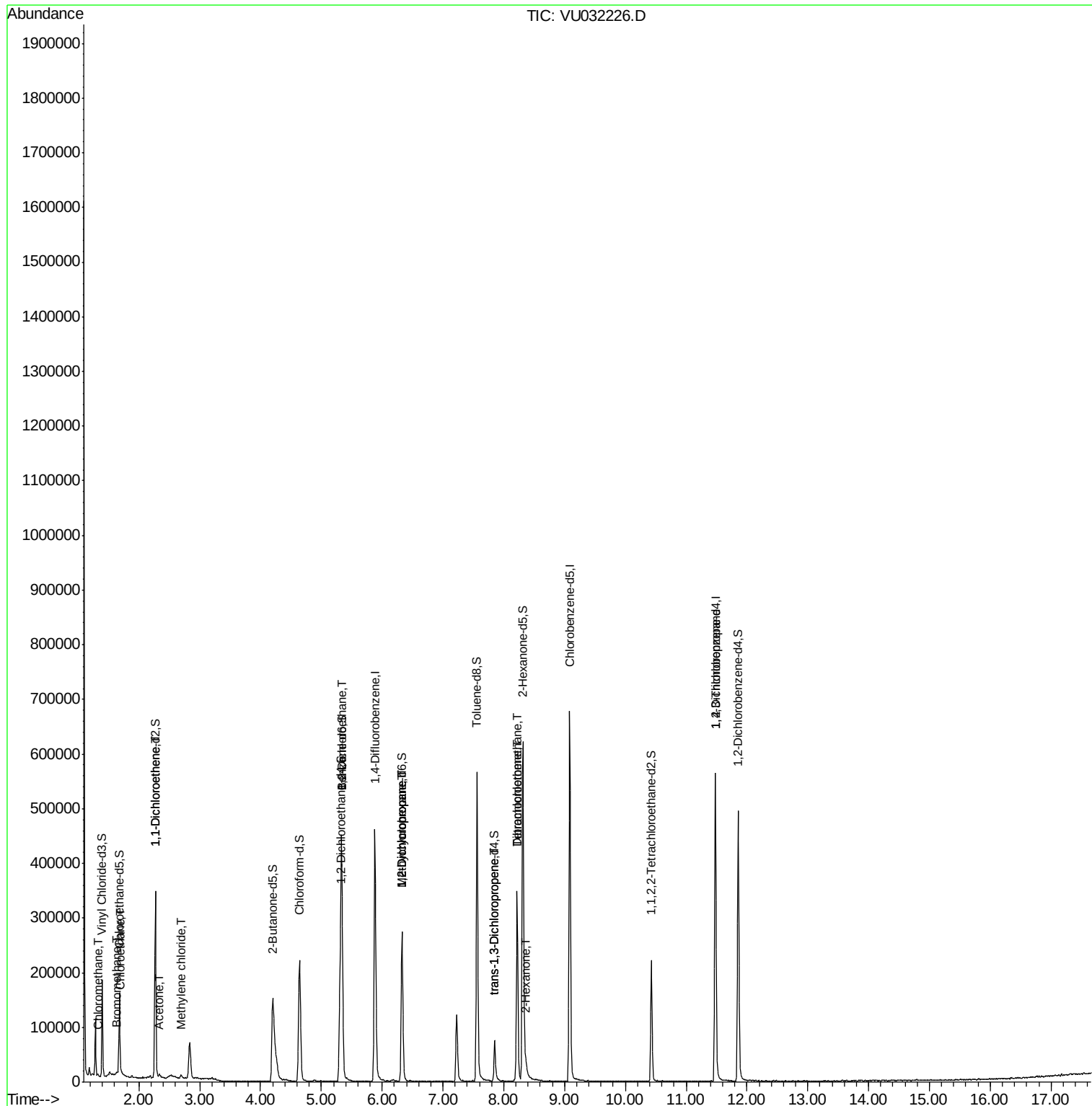
|                               |       |     |       |       |        | Qvalue |
|-------------------------------|-------|-----|-------|-------|--------|--------|
| 3) Chloromethane              | 1.33  | 50  | 2849  | 0.163 | ug/L # | 82     |
| 6) Bromomethane               | 1.63  | 94  | 1734  | 0.155 | ug/L   | 84     |
| 8) Chloroethane               | 1.70  | 64  | 1220  | 0.109 | ug/L # | 55     |
| 12) 1,1-Dichloroethene        | 2.27  | 96  | 1712  | 0.118 | ug/L # | 1      |
| 13) Acetone                   | 2.34  | 43  | 2788  | 1.391 | ug/L   | 90     |
| 16) Methylene chloride        | 2.70  | 84  | 2711  | 0.140 | ug/L   | 85     |
| 27) 1,2-Dichloroethane        | 5.33  | 62  | 2504  | 0.165 | ug/L # | 73     |
| 35) Methylcyclohexane         | 6.33  | 83  | 32711 | 1.512 | ug/L # | 20     |
| 37) 1,2-Dichloropropane       | 6.33  | 63  | 14075 | 1.068 | ug/L # | 86     |
| 44) trans-1,3-Dichloropropene | 7.85  | 75  | 2001  | 0.136 | ug/L   | 83     |
| 47) Tetrachloroethene         | 8.22  | 164 | 85191 | 7.027 | ug/L   | 97     |
| 48) 2-Hexanone                | 8.37  | 43  | 9220  | 1.805 | ug/L # | 89     |
| 49) Dibromochloromethane      | 8.22  | 129 | 79006 | 6.822 | ug/L # | 13     |
| 59) 1,2,3-Trichloropropane    | 11.48 | 75  | 17096 | 1.993 | ug/L   | 90     |

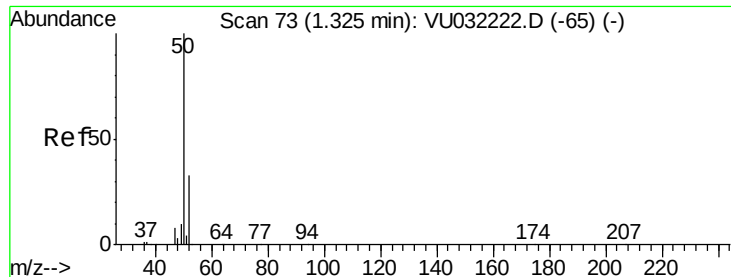
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#3

Chloromethane

Concen: 0.163 ug/L

RT: 1.33 min Scan# 74

Delta R.T. 0.00 min

Lab File: VU032226.D

Acq: 22 May 2019 16:44

Instrument :

MSVOA\_U

ClientSampleId :

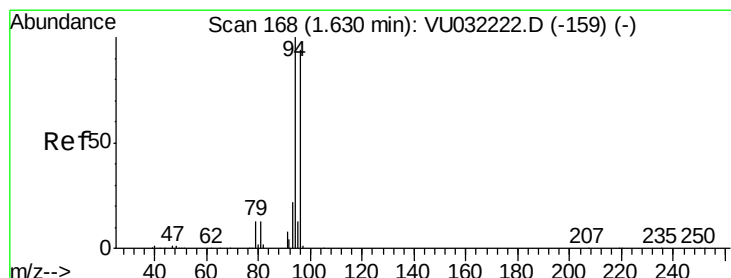
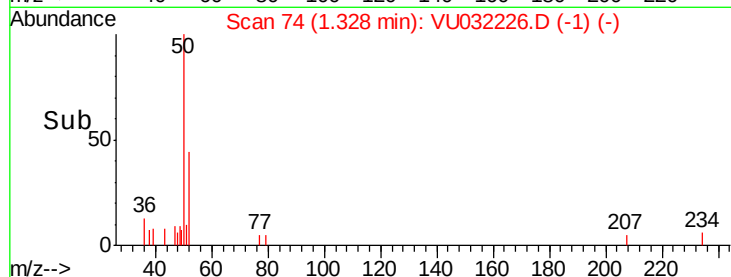
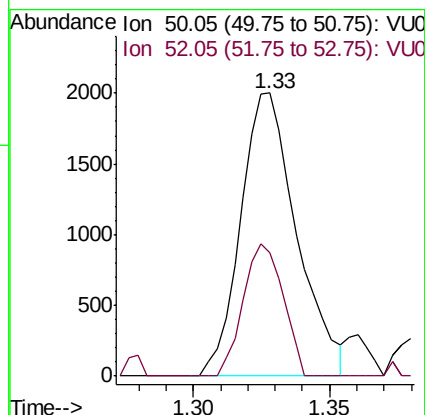
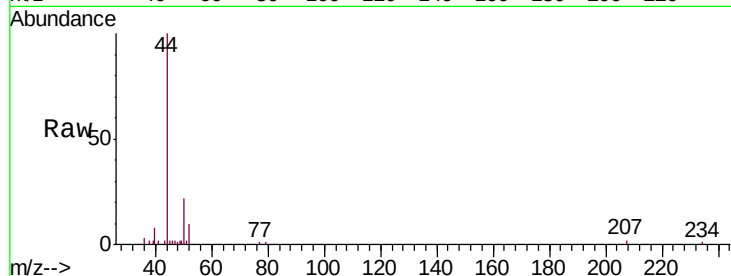
C0BM1DL

Tgt Ion: 50 Resp: 2849

Ion Ratio Lower Upper

50 100

52 43.6 23.3 43.3#



#6

Bromomethane

Concen: 0.155 ug/L

RT: 1.63 min Scan# 168

Delta R.T. 0.00 min

Lab File: VU032226.D

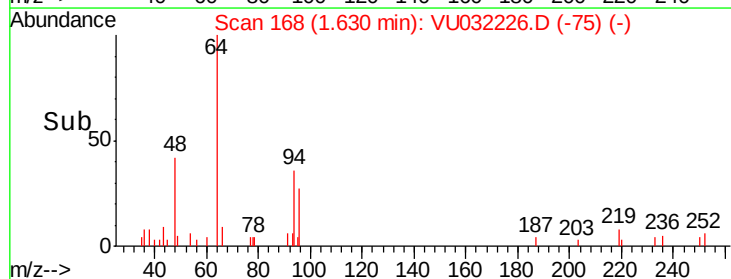
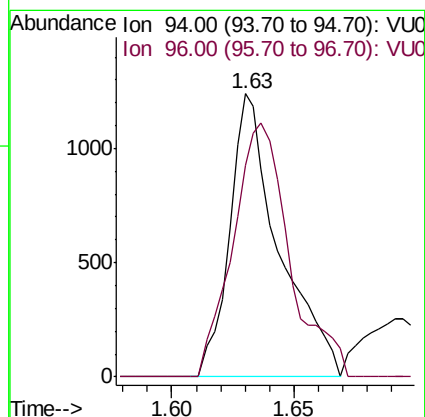
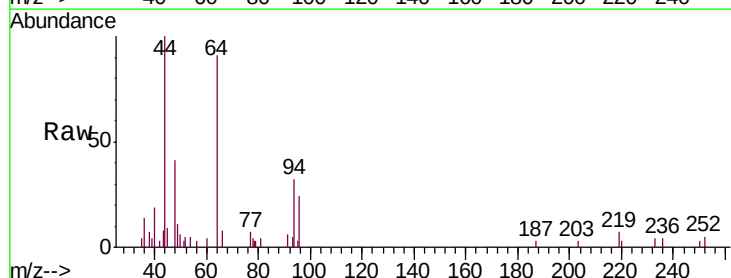
Acq: 22 May 2019 16:44

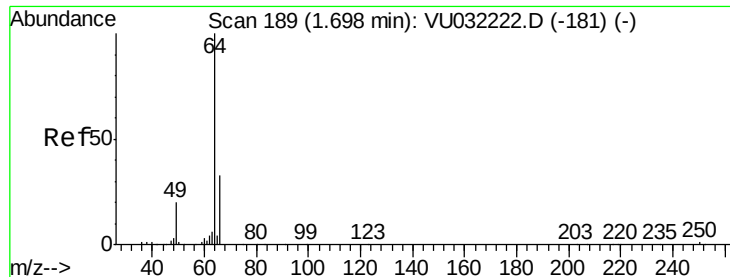
Tgt Ion: 94 Resp: 1734

Ion Ratio Lower Upper

94 100

96 75.0 63.0 117.0





#8

Chloroethane

Concen: 0.109 ug/L

RT: 1.70 min Scan# 189

Delta R.T. 0.00 min

Lab File: VU032226.D

Acq: 22 May 2019 16:44

Instrument :

MSVOA\_U

ClientSampleId :

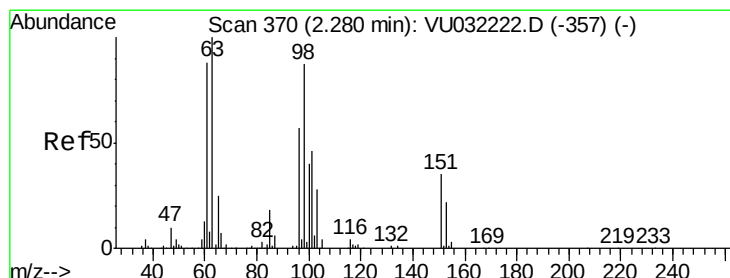
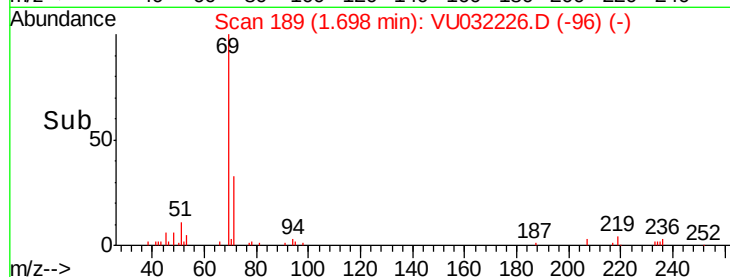
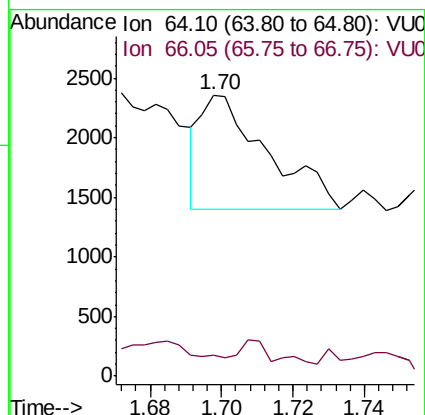
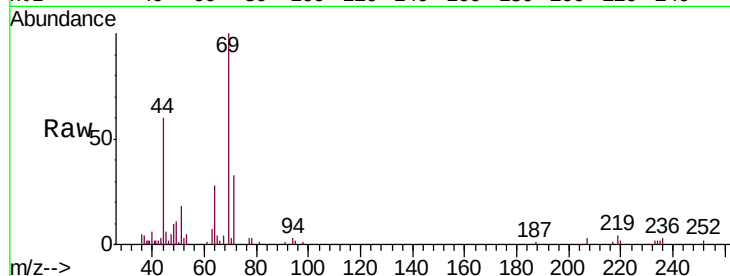
C0BM1DL

Tgt Ion: 64 Resp: 1220

Ion Ratio Lower Upper

64 100

66 7.6 23.1 42.9#



#12

1,1-Dichloroethene

Concen: 0.118 ug/L

RT: 2.27 min Scan# 366

Delta R.T. -0.01 min

Lab File: VU032226.D

Acq: 22 May 2019 16:44

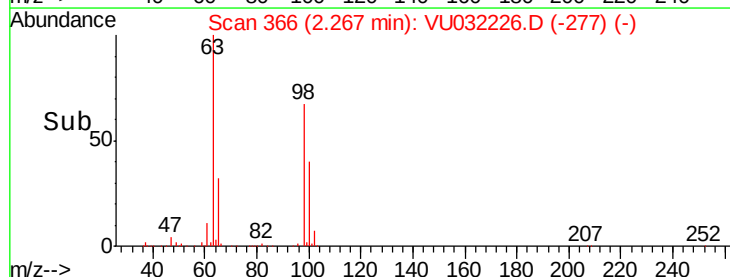
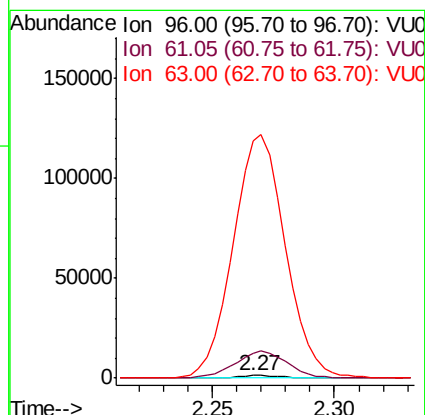
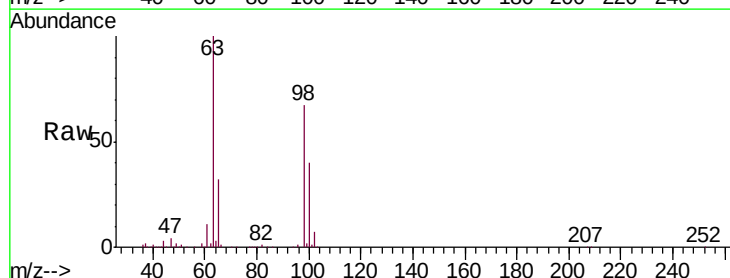
Tgt Ion: 96 Resp: 1712

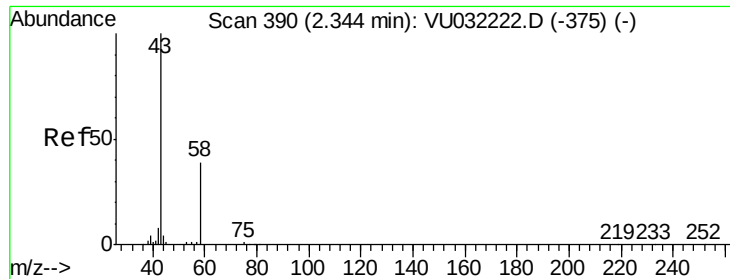
Ion Ratio Lower Upper

96 100

61 1002.2 113.8 211.3#

63 9433.0 108.8 202.2#





#13

Acetone

Concen: 1.391 ug/L

RT: 2.34 min Scan# 389

Delta R.T. -0.00 min

Lab File: VU032226.D

Acq: 22 May 2019 16:44

Instrument :

MSVOA\_U

ClientSampleId :

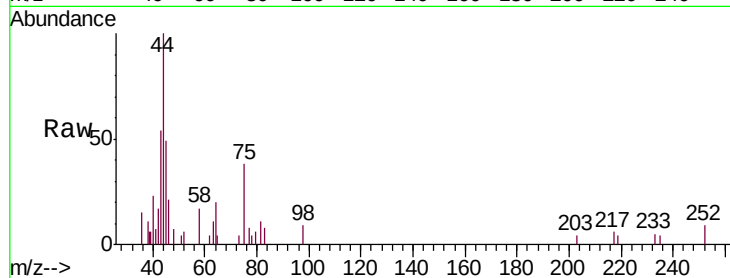
C0BM1DL

Tgt Ion: 43 Resp: 2788

Ion Ratio Lower Upper

43 100

58 30.2 0.0 72.6



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

1500

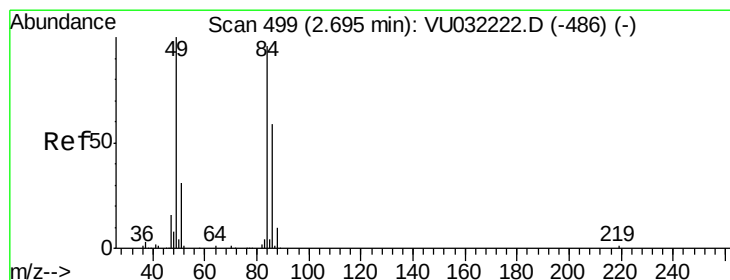
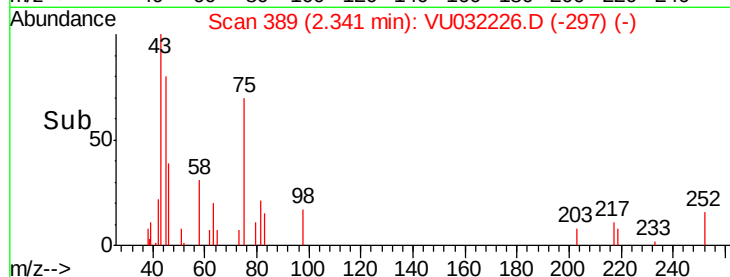
1000

500

0

2.30 2.35 2.40

Time-->



#16

Methylene chloride

Concen: 0.140 ug/L

RT: 2.70 min Scan# 500

Delta R.T. 0.00 min

Lab File: VU032226.D

Acq: 22 May 2019 16:44

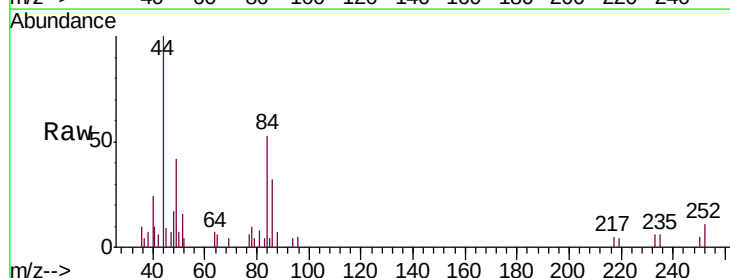
Tgt Ion: 84 Resp: 2711

Ion Ratio Lower Upper

84 100

86 60.5 43.6 81.0

49 79.1 71.1 132.1



Abundance Ion 84.05 (83.75 to 84.75): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.10 (48.80 to 49.80): VU0

2000

1500

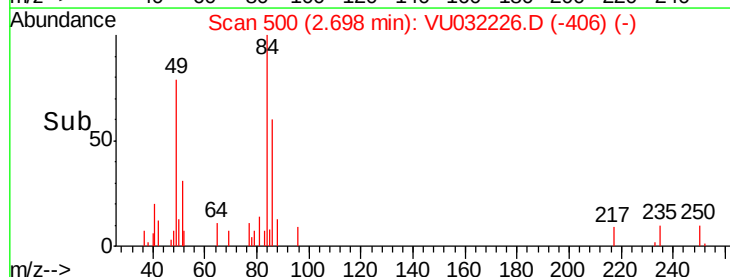
1000

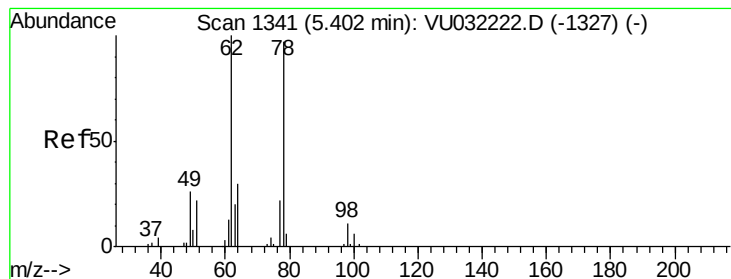
500

0

2.65 2.70 2.75

Time-->





#27

1,2-Dichloroethane

Concen: 0.165 ug/L

RT: 5.33 min Scan# 1320

Delta R.T. -0.07 min

Lab File: VU032226.D

Acq: 22 May 2019 16:44

Instrument :

MSVOA\_U

ClientSampleId :

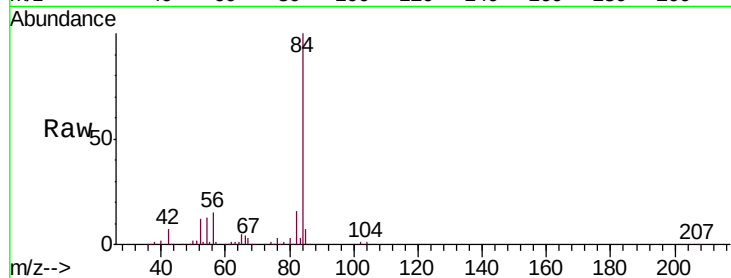
C0BM1DL

Tgt Ion: 62 Resp: 2504

Ion Ratio Lower Upper

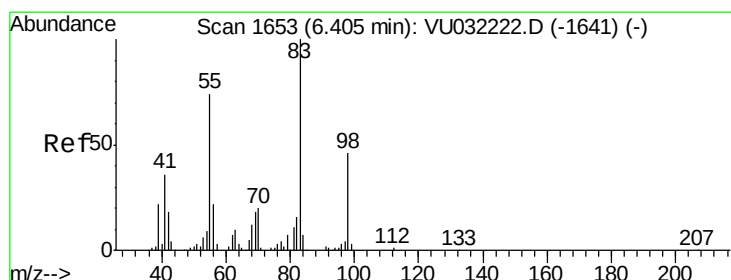
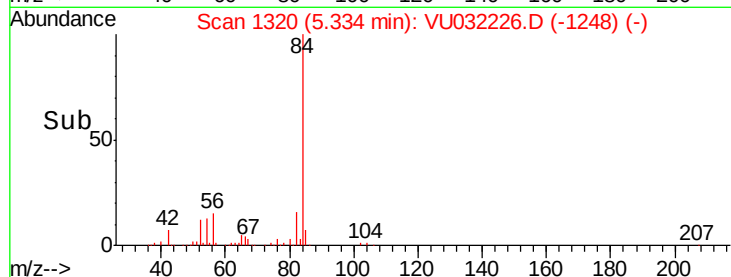
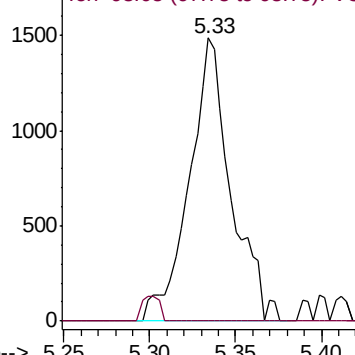
62 100

98 0.0 8.2 12.2#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 98.05 (97.75 to 98.75): VU0



#35

Methylcyclohexane

Concen: 1.512 ug/L

RT: 6.33 min Scan# 1629

Delta R.T. -0.08 min

Lab File: VU032226.D

Acq: 22 May 2019 16:44

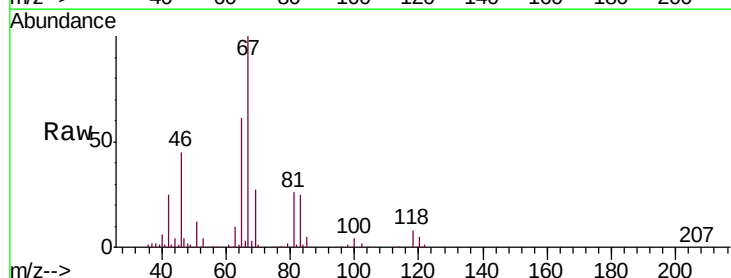
Tgt Ion: 83 Resp: 32711

Ion Ratio Lower Upper

83 100

55 0.3 59.7 89.5#

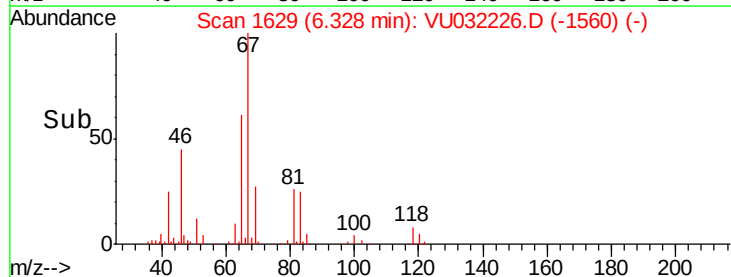
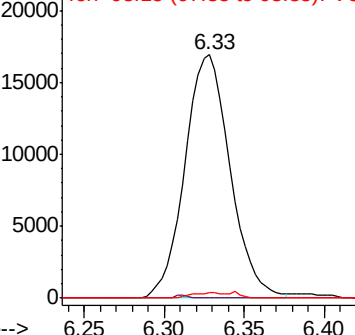
98 1.5 37.5 56.3#

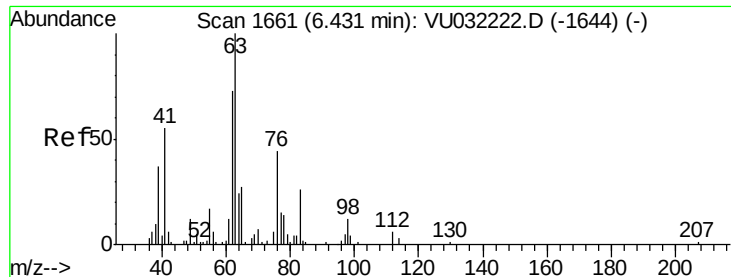


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

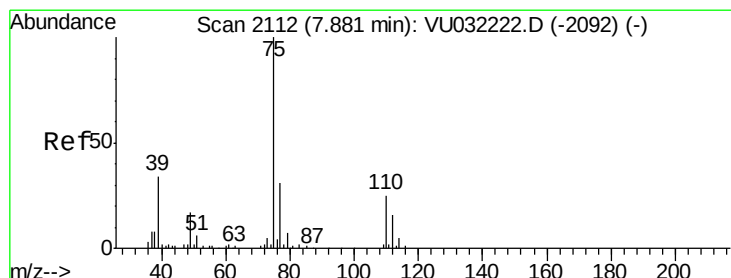
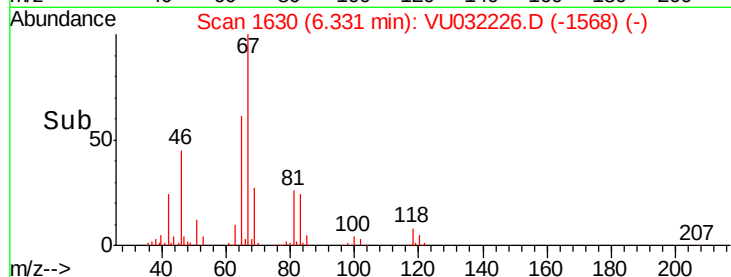
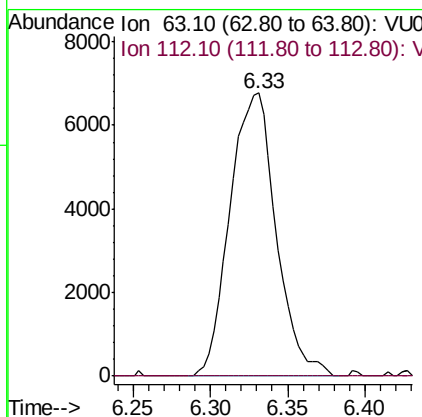
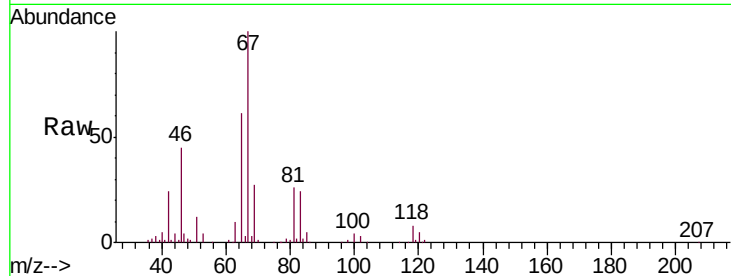




#37  
 1,2-Dichloropropane  
 Concen: 1.068 ug/L  
 RT: 6.33 min Scan# 1630  
 Delta R.T. -0.10 min  
 Lab File: VU032226.D  
 Acq: 22 May 2019 16:44

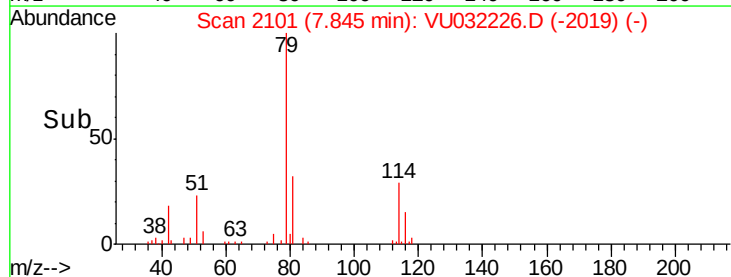
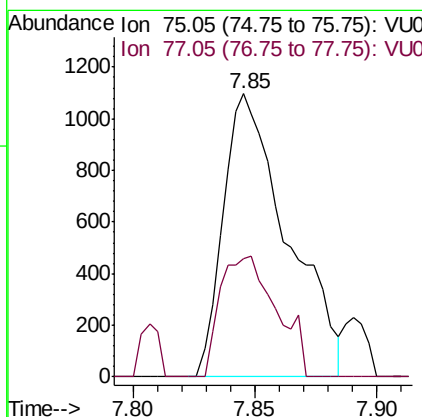
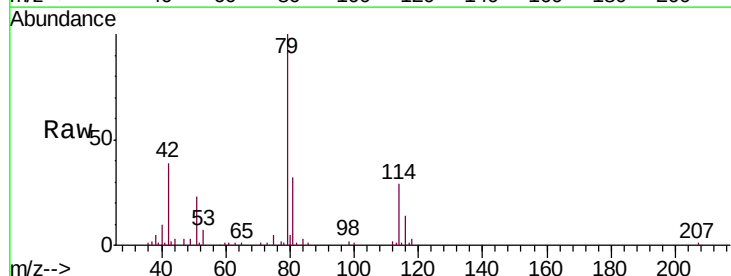
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 ClientSampleId :  
 C0BM1DL

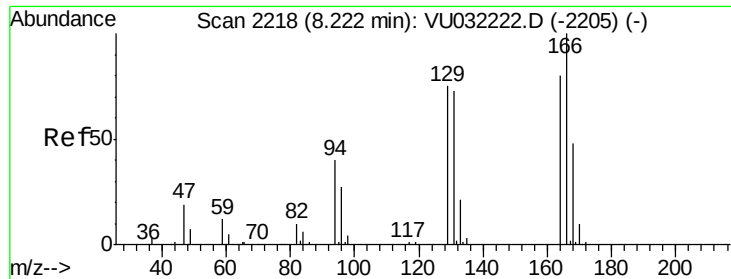
Tgt Ion: 63 Resp: 14075  
 Ion Ratio Lower Upper  
 63 100  
 112 0.1 3.8 5.8#



#44  
 trans-1,3-Dichloropropene  
 Concen: 0.136 ug/L  
 RT: 7.85 min Scan# 2101  
 Delta R.T. -0.04 min  
 Lab File: VU032226.D  
 Acq: 22 May 2019 16:44

Tgt Ion: 75 Resp: 2001  
 Ion Ratio Lower Upper  
 75 100  
 77 41.8 22.5 41.9





#47

Tetrachloroethene

Concen: 7.027 ug/L

RT: 8.22 min Scan# 2218

Delta R.T. 0.00 min

Lab File: VU032226.D

Acq: 22 May 2019 16:44

Instrument :

MSVOA\_U

ClientSampleId :

C0BM1DL

Tgt Ion:164 Resp: 85191

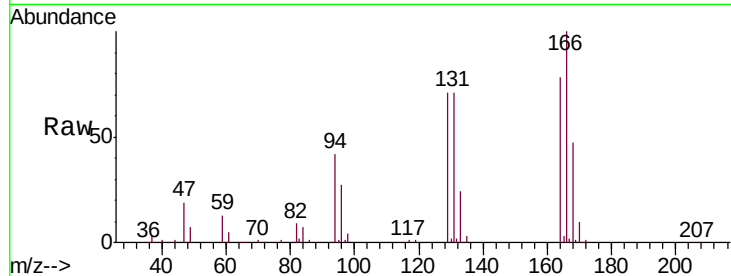
Ion Ratio Lower Upper

164 100

129 90.9 67.1 124.7

131 90.6 62.2 115.4

166 128.1 90.9 168.9

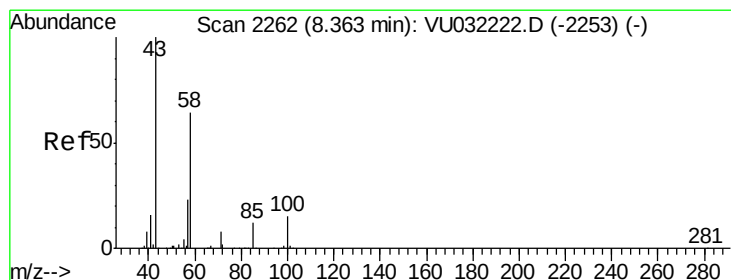
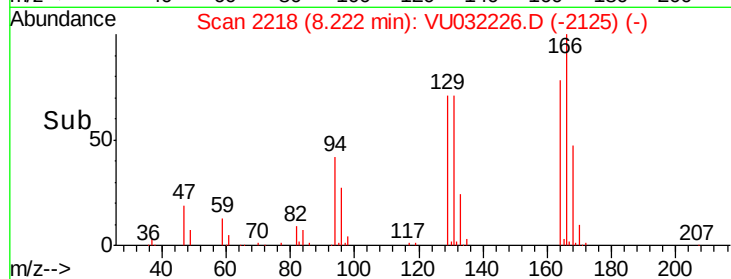
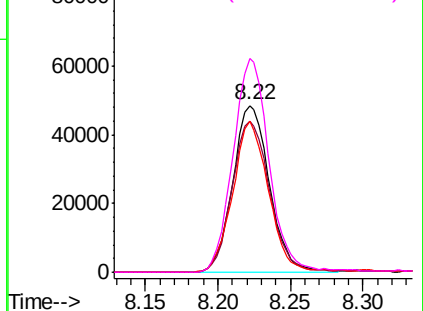


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V



#48

2-Hexanone

Concen: 1.805 ug/L

RT: 8.37 min Scan# 2264

Delta R.T. 0.01 min

Lab File: VU032226.D

Acq: 22 May 2019 16:44

Tgt Ion: 43 Resp: 9220

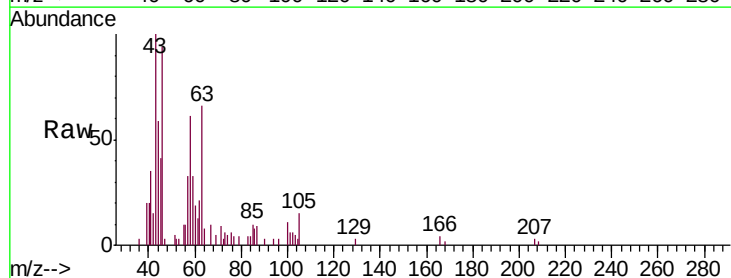
Ion Ratio Lower Upper

43 100

58 51.9 49.7 74.5

57 22.6 17.1 25.7

100 9.0 11.6 17.4#

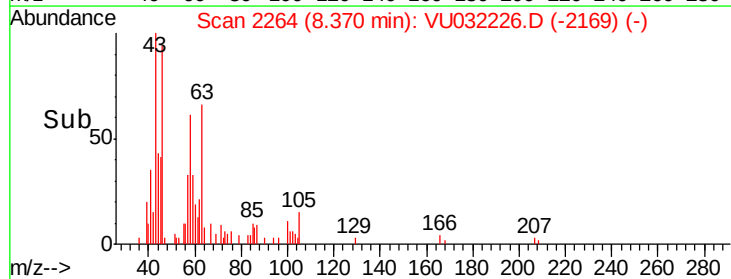
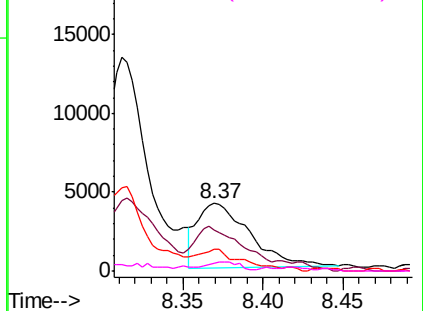


Abundance Ion 43.05 (42.75 to 43.75): VU0

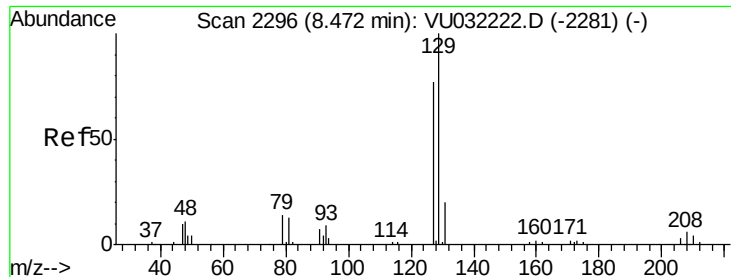
Ion 58.05 (57.75 to 58.75): VU0

Ion 57.20 (56.90 to 57.90): VU0

Ion 100.15 (99.85 to 100.85): VU0







#49

Dibromochloromethane

Concen: 6.822 ug/L

RT: 8.22 min Scan# 2218

Delta R.T. -0.25 min

Lab File: VU032226.D

Acq: 22 May 2019 16:44

Instrument :

MSVOA\_U

ClientSampleId :

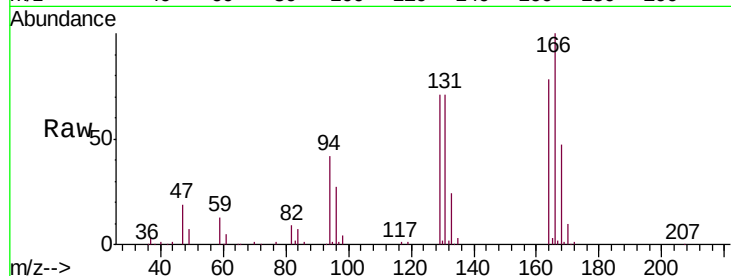
C0BM1DL

Tgt Ion:129 Resp: 79006

Ion Ratio Lower Upper

129 100

127 0.0 51.7 95.9#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

8.22

50000

40000

30000

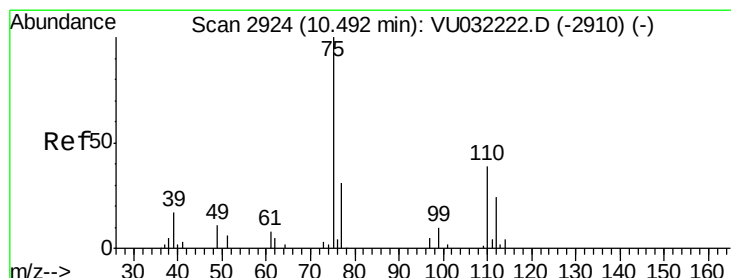
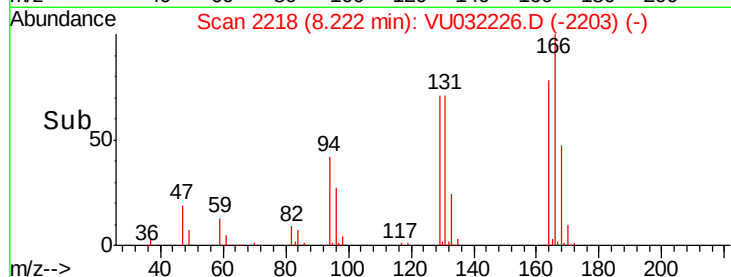
20000

10000

0

Time-->

8.15 8.20 8.25 8.30



#59

1,2,3-Trichloropropane

Concen: 1.993 ug/L

RT: 11.48 min Scan# 3231

Delta R.T. 0.99 min

Lab File: VU032226.D

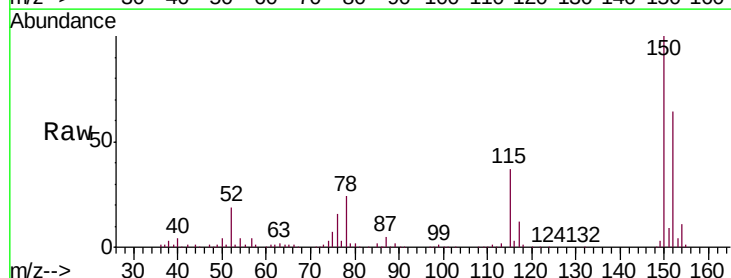
Acq: 22 May 2019 16:44

Tgt Ion: 75 Resp: 17096

Ion Ratio Lower Upper

75 100

77 41.3 28.2 42.4



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

11.48

12000

10000

8000

6000

4000

2000

0

Time-->

11.40 11.45 11.50 11.55

