

Data File : VU032151.D  
Acq On : 20 May 2019 13:37  
Operator : JC/SP  
Sample : K2860-14DL 4X  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
F9W41DL

Quant Time: May 21 06:43:09 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR051619WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Tue May 21 06:39:31 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 379453   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 385683   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 156698   | 5.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.40   | 65    | 108448   | 3.39     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 67.80% |
| 7) Chloroethane-d5             | 1.68   | 69    | 96614    | 3.54     | ug/L | 0.01   |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 70.80% |
| 11) 1,1-Dichloroethene-d2      | 2.27   | 63    | 155462   | 3.05     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 61.00% |
| 20) 2-Butanone-d5              | 4.20   | 46    | 256193   | 40.83    | ug/L | 0.01   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 81.66% |
| 24) Chloroform-d               | 4.64   | 84    | 228030   | 4.06     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 81.20% |
| 26) 1,2-Dichloroethane-d4      | 5.31   | 65    | 113354   | 3.91     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 78.20% |
| 32) Benzene-d6                 | 5.33   | 84    | 449692   | 3.82     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 76.40% |
| 36) 1,2-Dichloropropane-d6     | 6.33   | 67    | 135958   | 3.95     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 79.00% |
| 41) Toluene-d8                 | 7.56   | 98    | 364697   | 3.52     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 70.40% |
| 43) trans-1,3-Dichloropropene- | 7.85   | 79    | 44127    | 3.56     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 71.20% |
| 46) 2-Hexanone-d5              | 8.31   | 63    | 211686   | 37.87    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 75.74% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43  | 84    | 113646   | 4.04     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 80.80% |
| 64) 1,2-Dichlorobenzene-d4     | 11.86  | 152   | 142020   | 4.28     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 85.60% |

#### Target Compounds

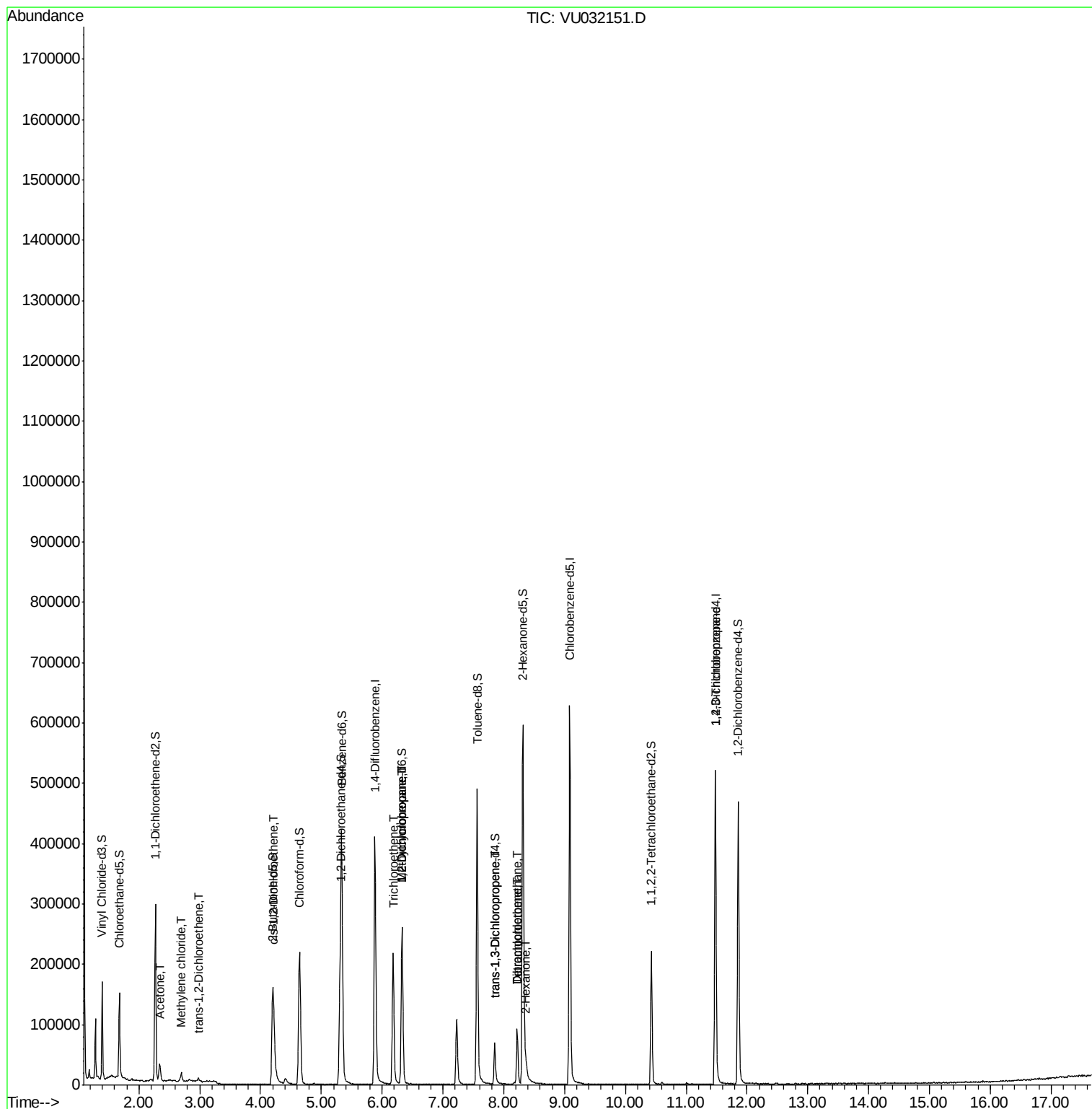
|                               |       |     |       |              | Qvalue |
|-------------------------------|-------|-----|-------|--------------|--------|
| 13) Acetone                   | 2.34  | 43  | 15198 | 7.377 ug/L   | 96     |
| 16) Methylene chloride        | 2.69  | 84  | 5902  | 0.325 ug/L   | 89     |
| 18) trans-1,2-Dichloroethene  | 2.98  | 96  | 2405  | 0.147 ug/L   | 87     |
| 22) cis-1,2-Dichloroethene    | 4.22  | 96  | 11877 | 0.740 ug/L   | 80     |
| 34) Trichloroethene           | 6.18  | 95  | 77013 | 4.794 ug/L   | 95     |
| 35) Methylcyclohexane         | 6.33  | 83  | 32943 | 1.424 ug/L # | 20     |
| 37) 1,2-Dichloropropane       | 6.33  | 63  | 14065 | 0.971 ug/L # | 87     |
| 44) trans-1,3-Dichloropropene | 7.85  | 75  | 1732  | 0.111 ug/L   | 86     |
| 47) Tetrachloroethene         | 8.22  | 164 | 24165 | 2.012 ug/L   | 87     |
| 48) 2-Hexanone                | 8.37  | 43  | 13588 | 2.610 ug/L # | 90     |
| 49) Dibromochloromethane      | 8.22  | 129 | 21050 | 1.708 ug/L # | 10     |
| 59) 1,2,3-Trichloropropane    | 11.48 | 75  | 16547 | 1.799 ug/L   | 92     |

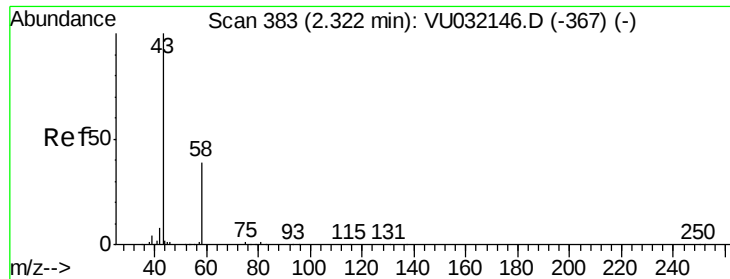
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue May 21 06:39:31 2019  
Response via : Initial Calibration





#13

Acetone

Concen: 7.377 ug/L

RT: 2.34 min Scan# 389

Delta R.T. 0.02 min

Lab File: VU032151.D

Acq: 20 May 2019 13:37

Instrument :

MSVOA\_U

ClientSampleId :

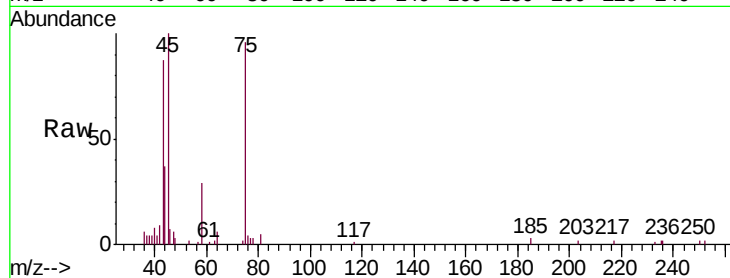
F9W41DL

Tgt Ion: 43 Resp: 15198

Ion Ratio Lower Upper

43 100

58 36.7 0.0 78.8



Abundance Ion 43.05 (42.75 to 43.75): VU032146.D (-367) (-)

Ion 58.05 (57.75 to 58.75): VU032146.D (-367) (-)

8000

6000

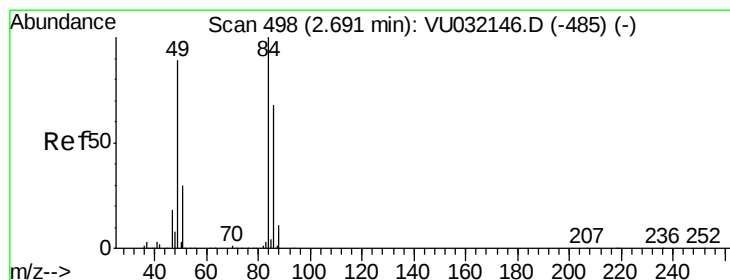
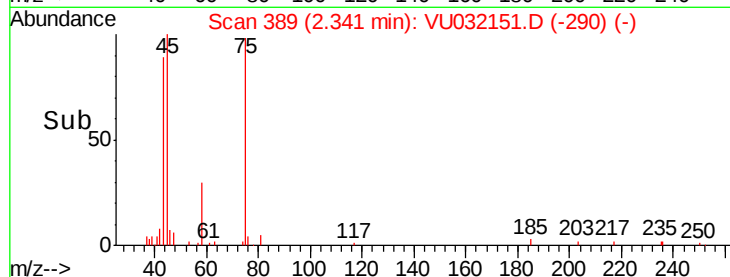
4000

2000

0

2.25 2.30 2.35 2.40

Time-->



#16

Methylene chloride

Concen: 0.325 ug/L

RT: 2.69 min Scan# 499

Delta R.T. 0.00 min

Lab File: VU032151.D

Acq: 20 May 2019 13:37

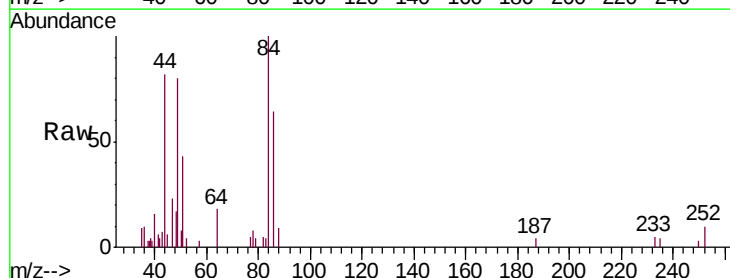
Tgt Ion: 84 Resp: 5902

Ion Ratio Lower Upper

84 100

86 63.9 43.1 80.1

49 80.3 67.7 125.7



Abundance Ion 84.05 (83.75 to 84.75): VU032146.D (-485) (-)

Ion 86.00 (85.70 to 86.70): VU032146.D (-485) (-)

Ion 49.10 (48.80 to 49.80): VU032146.D (-485) (-)

5000

4000

3000

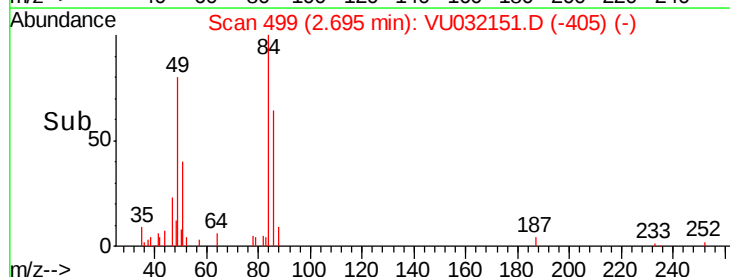
2000

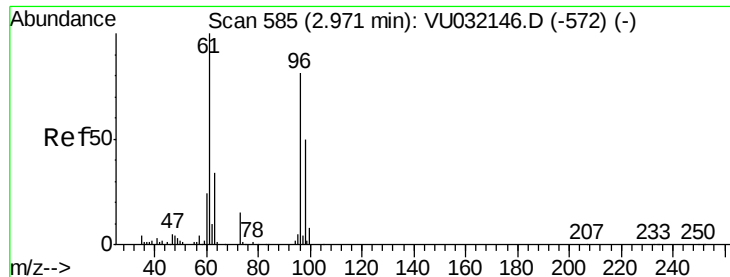
1000

0

2.65 2.70 2.75

Time-->





#18

trans-1,2-Dichloroethene

Concen: 0.147 ug/L

RT: 2.98 min Scan# 587

Delta R.T. 0.01 min

Lab File: VU032151.D

Acq: 20 May 2019 13:37

Instrument :

MSVOA\_U

ClientSampleId :

F9W41DL

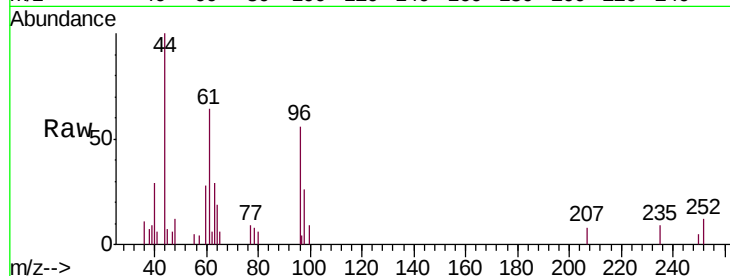
Tgt Ion: 96 Resp: 2405

Ion Ratio Lower Upper

96 100

61 113.4 86.5 160.7

98 45.4 43.5 80.9

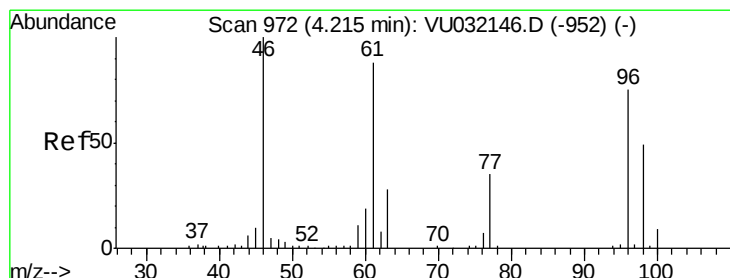
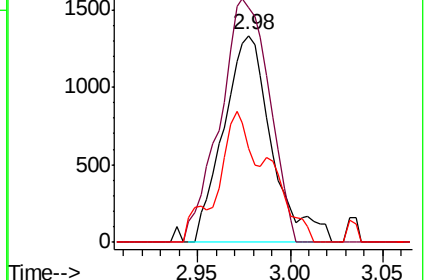
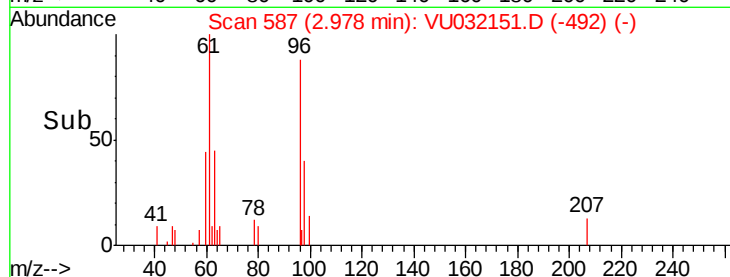


Abundance Ion 96.00 (95.70 to 96.70): VU032151.D (-879) (-)

Ion 61.05 (60.75 to 61.75): VU032151.D (-879) (-)

Ion 97.95 (97.65 to 98.65): VU032151.D (-879) (-)

Time-->



#22

cis-1,2-Dichloroethene

Concen: 0.740 ug/L

RT: 4.22 min Scan# 973

Delta R.T. 0.00 min

Lab File: VU032151.D

Acq: 20 May 2019 13:37

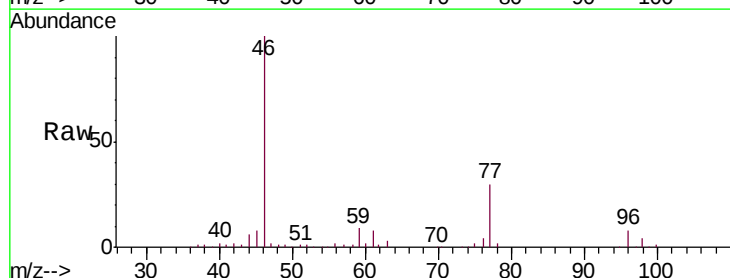
Tgt Ion: 96 Resp: 11877

Ion Ratio Lower Upper

96 100

61 100.3 85.8 159.4

68 0.0 0.0 0.0

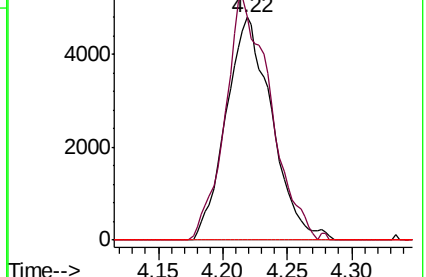
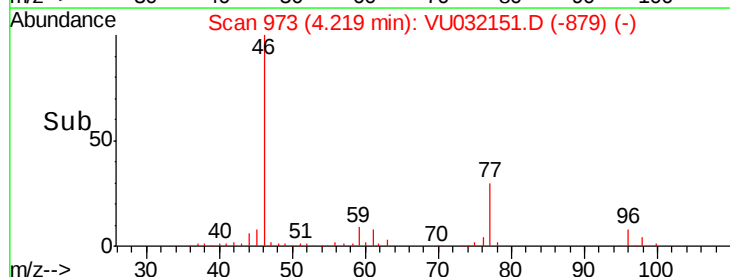


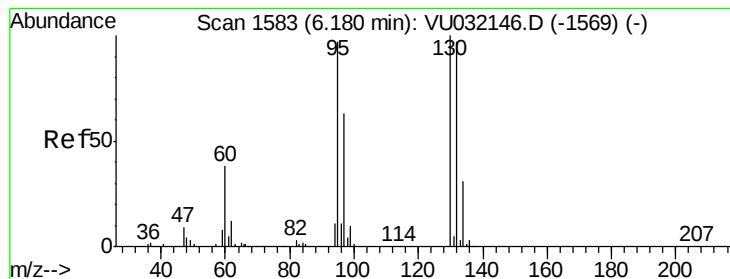
Abundance Ion 96.00 (95.70 to 96.70): VU032151.D (-879) (-)

Ion 61.05 (60.75 to 61.75): VU032151.D (-879) (-)

Ion 68.15 (67.85 to 68.85): VU032151.D (-879) (-)

Time-->





#34

Trichloroethene

Concen: 4.794 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. 0.00 min

Lab File: VU032151.D

Acq: 20 May 2019 13:37

Instrument :

MSVOA\_U

ClientSampleId :

F9W41DL

Tgt Ion: 95 Resp: 77013

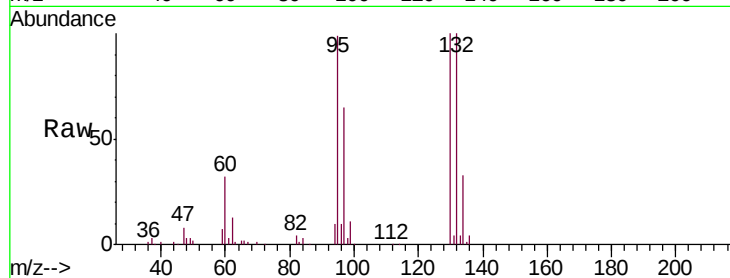
Ion Ratio Lower Upper

95 100

97 66.0 45.2 84.0

132 101.1 66.1 122.7

130 100.9 66.7 123.9

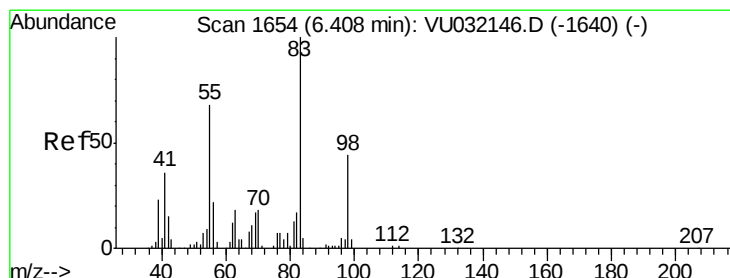
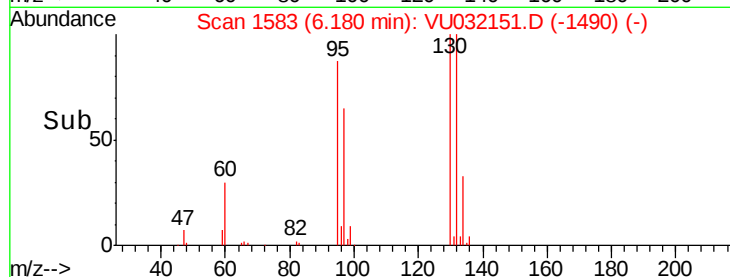
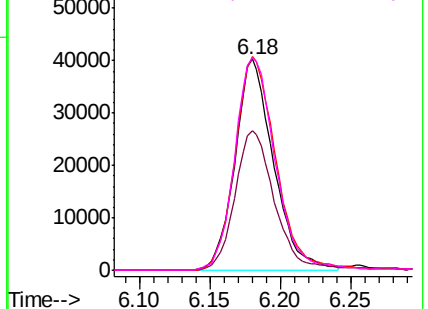


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 1.424 ug/L

RT: 6.33 min Scan# 1629

Delta R.T. -0.08 min

Lab File: VU032151.D

Acq: 20 May 2019 13:37

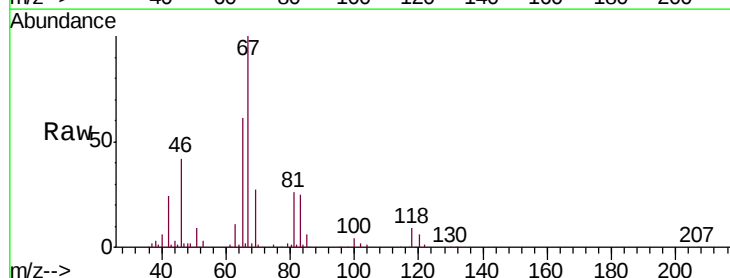
Tgt Ion: 83 Resp: 32943

Ion Ratio Lower Upper

83 100

55 0.3 59.7 89.5#

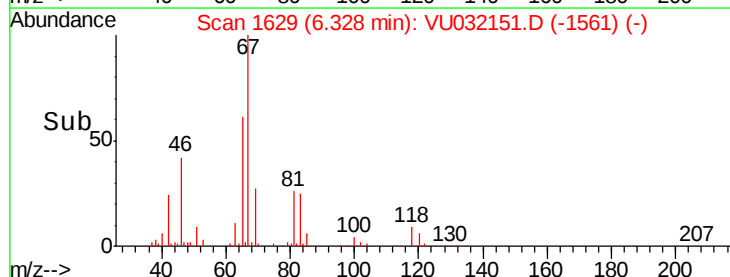
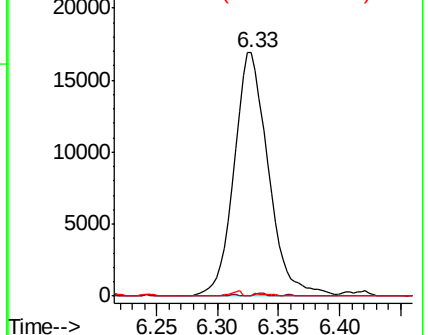
98 0.3 36.8 55.2#

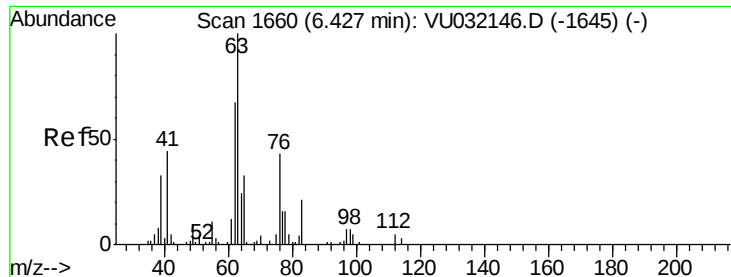


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

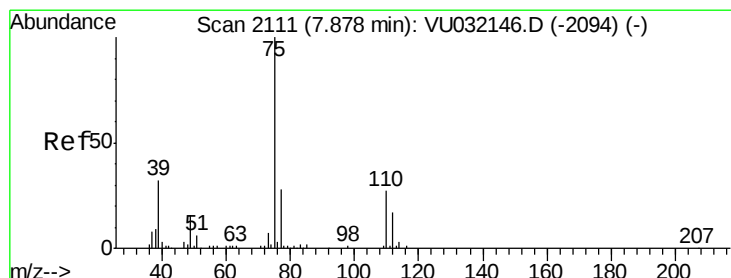
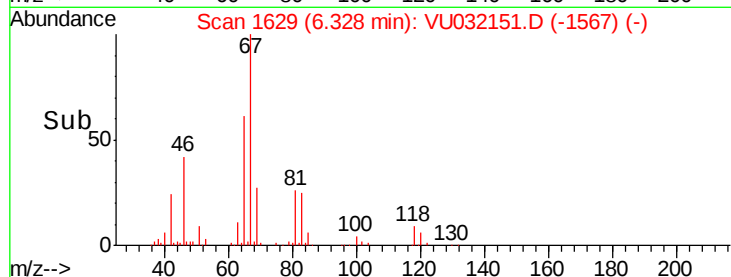
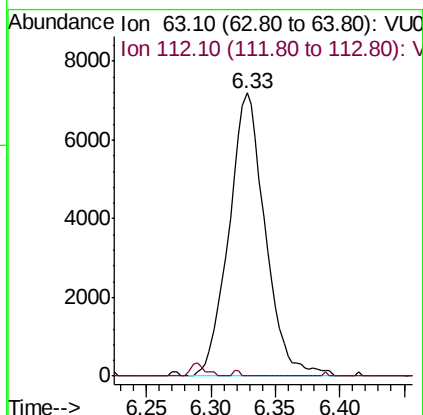
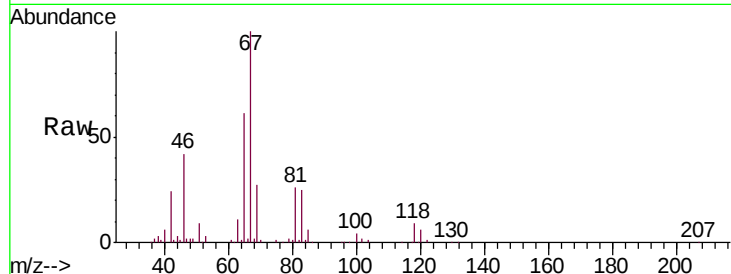




#37  
 1,2-Dichloropropane  
 Concen: 0.971 ug/L  
 RT: 6.33 min Scan# 1629  
 Delta R.T. -0.10 min  
 Lab File: VU032151.D  
 Acq: 20 May 2019 13:37

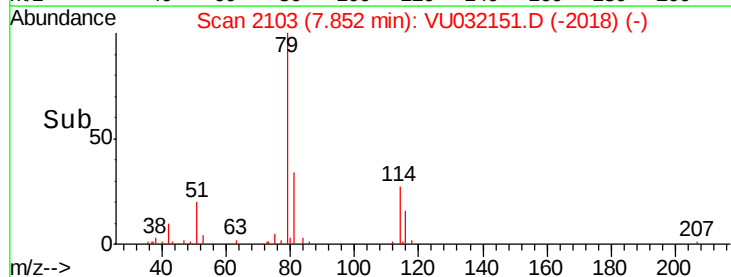
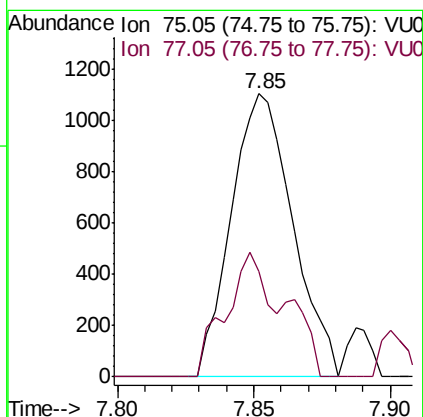
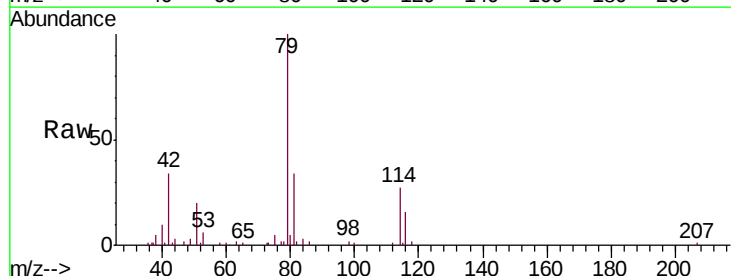
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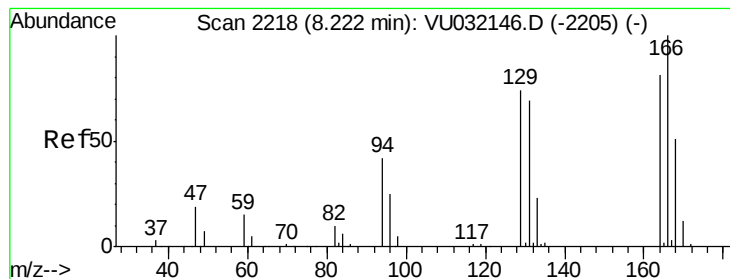
Tgt Ion: 63 Resp: 14065  
 Ion Ratio Lower Upper  
 63 100  
 112 0.4 3.8 5.6#



#44  
 trans-1,3-Dichloropropene  
 Concen: 0.111 ug/L  
 RT: 7.85 min Scan# 2103  
 Delta R.T. -0.03 min  
 Lab File: VU032151.D  
 Acq: 20 May 2019 13:37

Tgt Ion: 75 Resp: 1732  
 Ion Ratio Lower Upper  
 75 100  
 77 37.3 21.0 39.0





#47

Tetrachloroethene

Concen: 2.012 ug/L

RT: 8.22 min Scan# 2219

Delta R.T. 0.00 min

Lab File: VU032151.D

Acq: 20 May 2019 13:37

Instrument :

MSVOA\_U

ClientSampleId :

F9W41DL

Tgt Ion:164 Resp: 24165

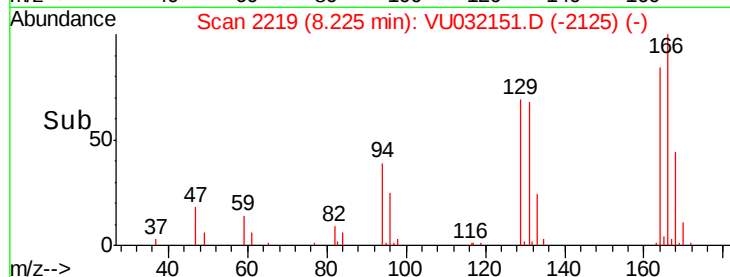
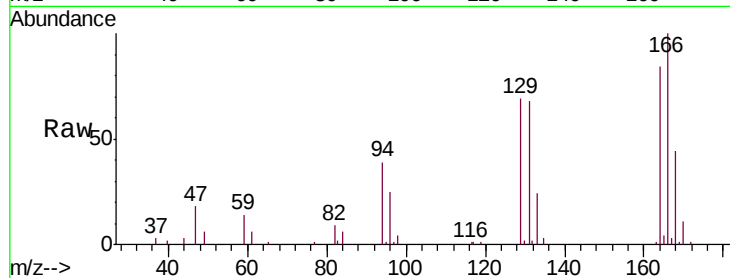
Ion Ratio Lower Upper

164 100

129 82.1 70.3 130.5

131 81.5 64.5 119.9

166 119.1 92.3 171.5

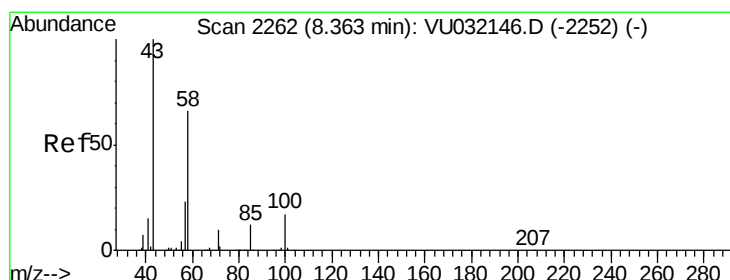
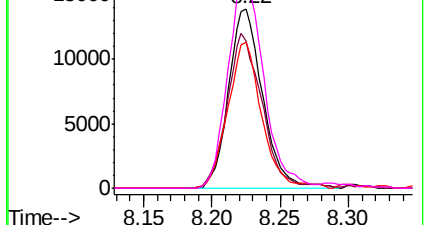


Abundance Ion 163.90 (163.60 to 164.60): V

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: 2.610 ug/L

RT: 8.37 min Scan# 2265

Delta R.T. 0.01 min

Lab File: VU032151.D

Acq: 20 May 2019 13:37

Tgt Ion: 43 Resp: 13588

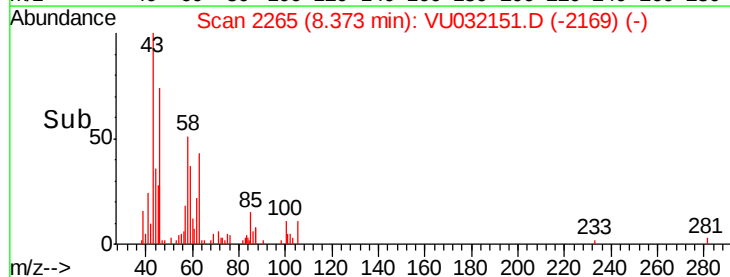
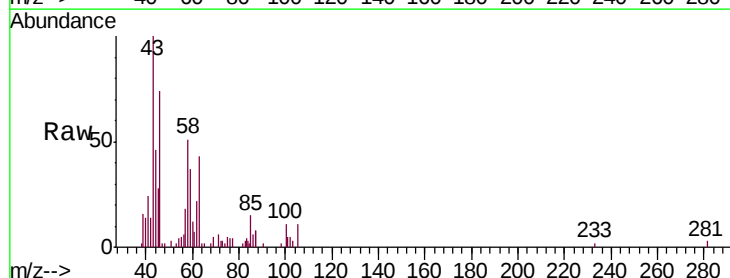
Ion Ratio Lower Upper

43 100

58 54.6 51.6 77.4

57 24.6 18.4 27.6

100 10.2 12.2 18.4#

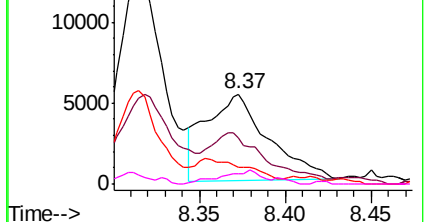


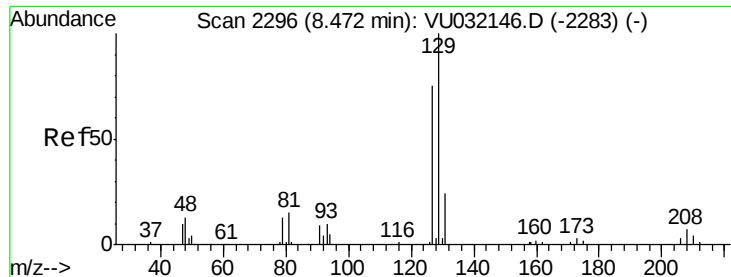
Abundance Ion 43.05 (42.75 to 43.75): VU0

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: 1.708 ug/L

RT: 8.22 min Scan# 2218

Delta R.T. -0.25 min

Lab File: VU032151.D

Acq: 20 May 2019 13:37

Instrument :

MSVOA\_U

ClientSampleId :

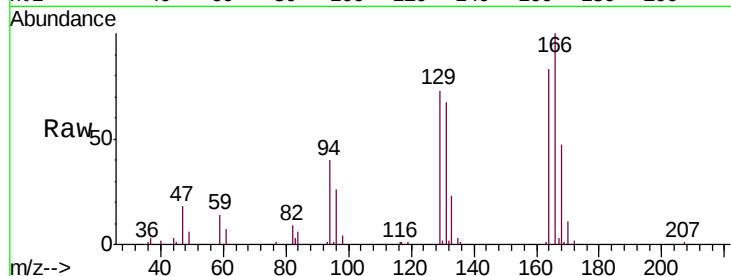
F9W41DL

Tgt Ion:129 Resp: 21050

Ion Ratio Lower Upper

129 100

127 0.0 55.2 102.6#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

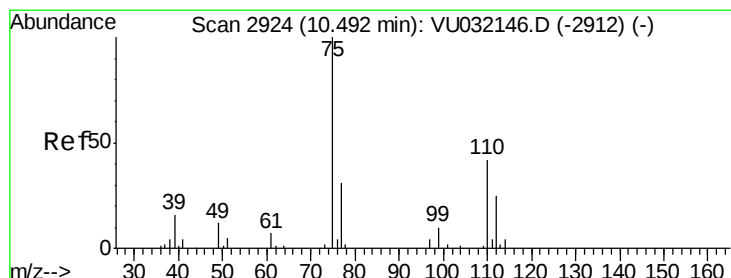
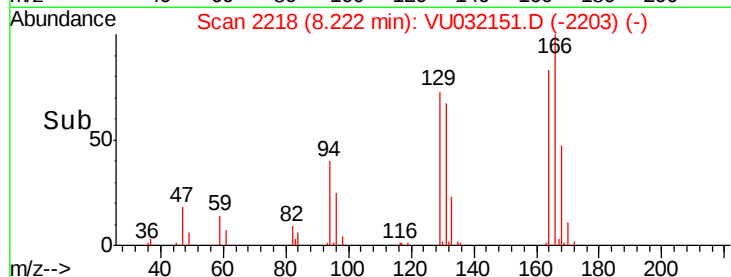
8.22

10000

5000

0

Time--> 8.15 8.20 8.25



#59

1,2,3-Trichloropropane

Concen: 1.799 ug/L

RT: 11.48 min Scan# 3231

Delta R.T. 0.99 min

Lab File: VU032151.D

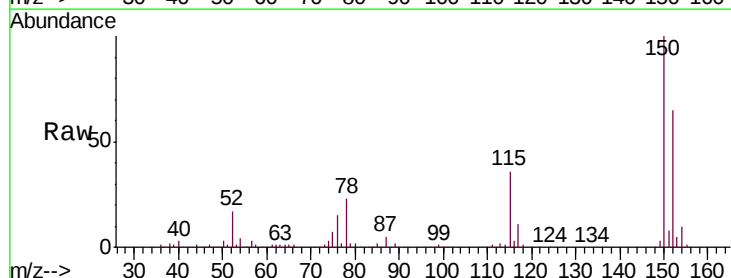
Acq: 20 May 2019 13:37

Tgt Ion: 75 Resp: 16547

Ion Ratio Lower Upper

75 100

77 37.4 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

12000

10000

8000

6000

4000

2000

0

Time--> 11.45 11.50

