

Data File : VU029577.D  
Acq On : 20 Feb 2019 13:51  
Operator : JC/SP  
Sample : K1522-03DL 10X  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
C0AM4DL

Quant Time: Feb 21 04:26:36 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR021219WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Thu Feb 21 04:23:07 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 209679   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 202622   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 104787   | 5.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40   | 65    | 53191    | 3.78     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 75.60%  |
| 7) Chloroethane-d5             | 1.68   | 69    | 53409    | 4.29     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 85.80%  |
| 11) 1,1-Dichloroethene-d2      | 2.27   | 63    | 87700    | 2.86     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 57.20%# |
| 20) 2-Butanone-d5              | 4.19   | 46    | 173050   | 59.08    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 118.16% |
| 24) Chloroform-d               | 4.64   | 84    | 106403   | 4.75     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 95.00%  |
| 26) 1,2-Dichloroethane-d4      | 5.31   | 65    | 64013    | 5.36     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 107.20% |
| 32) Benzene-d6                 | 5.34   | 84    | 228332   | 4.69     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 93.80%  |
| 36) 1,2-Dichloropropane-d6     | 6.33   | 67    | 72252    | 5.02     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 100.40% |
| 41) Toluene-d8                 | 7.56   | 98    | 212148   | 4.41     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 88.20%  |
| 43) trans-1,3-Dichloropropene- | 7.85   | 79    | 27855    | 4.33     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 86.60%  |
| 46) 2-Hexanone-d5              | 8.31   | 63    | 172435   | 58.24    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 116.48% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43  | 84    | 68168    | 5.45     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 109.00% |
| 64) 1,2-Dichlorobenzene-d4     | 11.86  | 152   | 98684    | 5.11     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 102.20% |

#### Target Compounds

|                                |       |     |        |        |        | Qvalue |
|--------------------------------|-------|-----|--------|--------|--------|--------|
| 6) Bromomethane                | 1.62  | 94  | 1278   | 0.108  | ug/L   | 79     |
| 9) Trichlorofluoromethane      | 1.88  | 101 | 7526   | 0.243  | ug/L   | 97     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.27  | 101 | 1038   | 0.057  | ug/L # | 16     |
| 12) 1,1-Dichloroethene         | 2.28  | 96  | 3425   | 0.198  | ug/L # | 1      |
| 22) cis-1,2-Dichloroethene     | 4.22  | 96  | 1700   | 0.100  | ug/L   | 93     |
| 25) Chloroform                 | 4.68  | 83  | 10122  | 0.365  | ug/L   | 96     |
| 27) 1,2-Dichloroethane         | 5.41  | 62  | 4518   | 0.282  | ug/L   | 94     |
| 29) 1,1,1-Trichloroethane      | 4.91  | 97  | 3029   | 0.121  | ug/L   | 96     |
| 34) Trichloroethene            | 6.18  | 95  | 197599 | 11.783 | ug/L   | 98     |
| 35) Methylcyclohexane          | 6.33  | 83  | 17539  | 0.622  | ug/L # | 22     |
| 37) 1,2-Dichloropropane        | 6.33  | 63  | 8208   | 0.549  | ug/L # | 87     |
| 47) Tetrachloroethene          | 8.22  | 164 | 18411  | 1.199  | ug/L   | 94     |
| 48) 2-Hexanone                 | 8.37  | 43  | 2406   | 0.383  | ug/L # | 69     |
| 49) Dibromochloromethane       | 8.22  | 129 | 16852  | 1.093  | ug/L # | 11     |
| 59) 1,2,3-Trichloropropane     | 11.48 | 75  | 10729  | 1.120  | ug/L   | 97     |
| 66) 1,2-Dibromo-3-chloropropan | 12.47 | 75  | 578    | 0.264  | ug/L # | 1      |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU022019\  
Quantitation Report (Not Reviewed)

Data File : VU029577.D  
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Operator : JC/SP  
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ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
C0AM4DL

Quant Time: Feb 21 04:26:36 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR021219WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Thu Feb 21 04:23:07 2019  
Response via : Initial Calibration

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

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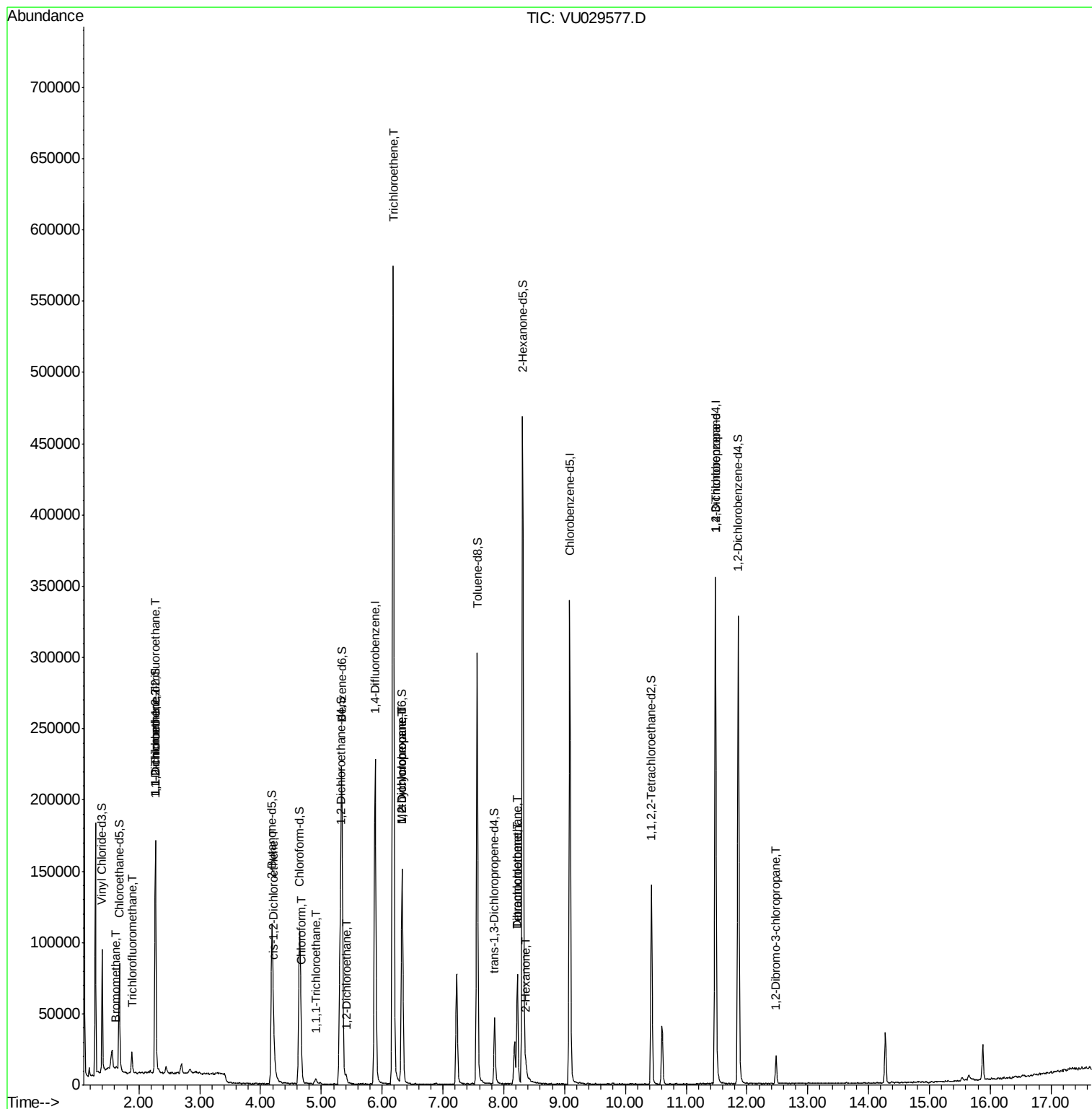
(#) = qualifier out of range (m) = manual integration (+) = signals summed

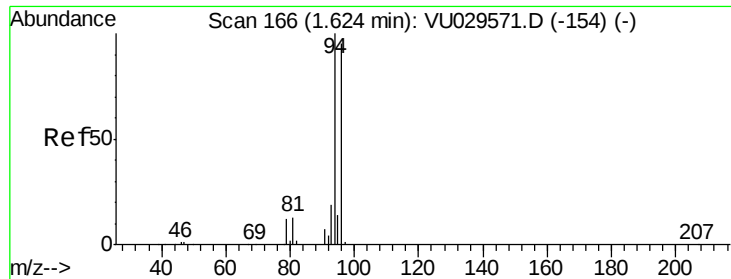
Data File : VU029577.D

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Acq On       : 20 Feb 2019   13:51
Operator     : JC/SP
Sample       : K1522-03DL 10X
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ALS Vial     : 8      Sample Multiplier: 1
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**Instrument :**  
MSVOA\_U  
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C0AM4DL

Quant Time: Feb 21 04:26:36 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR021219WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Thu Feb 21 04:23:07 2019  
Response via : Initial Calibration





#6

Bromomethane

Concen: 0.108 ug/L

RT: 1.62 min Scan# 166

Delta R.T. -0.00 min

Lab File: VU029577.D

Acq: 20 Feb 2019 13:51

Instrument :

MSVOA\_U

ClientSampleId :

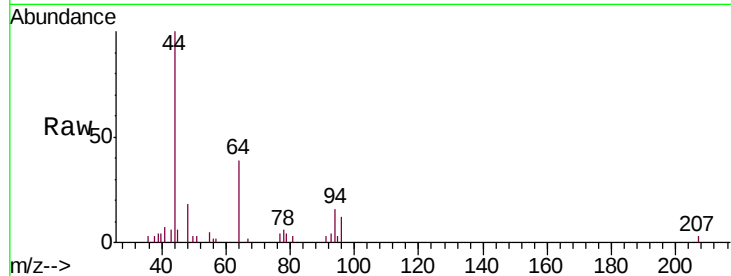
C0AM4DL

Tgt Ion: 94 Resp: 1278

Ion Ratio Lower Upper

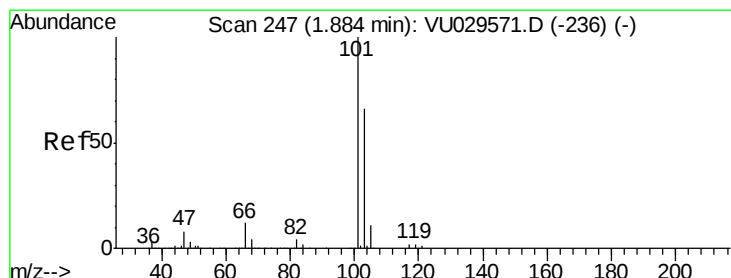
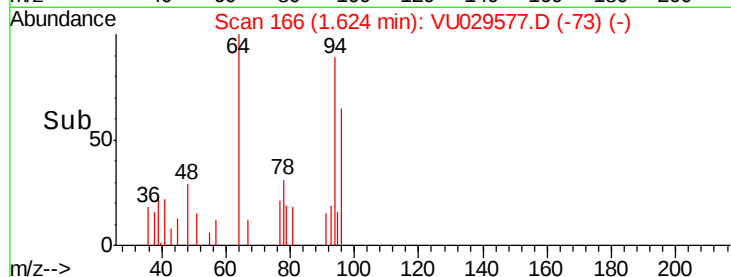
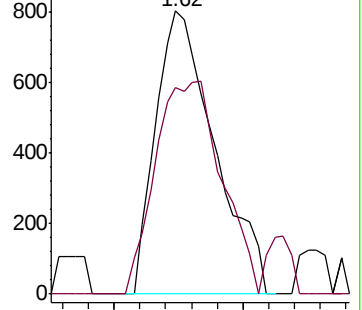
94 100

96 73.0 65.2 121.0



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0



#9

Trichlorofluoromethane

Concen: 0.243 ug/L

RT: 1.88 min Scan# 247

Delta R.T. -0.00 min

Lab File: VU029577.D

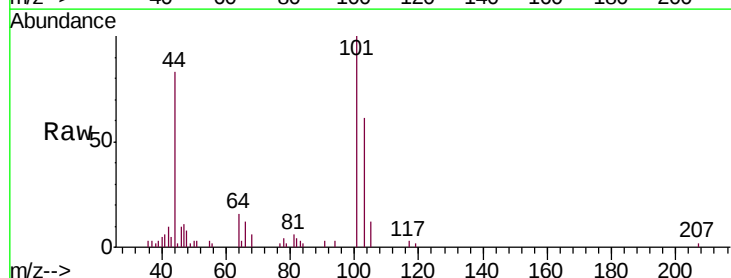
Acq: 20 Feb 2019 13:51

Tgt Ion: 101 Resp: 7526

Ion Ratio Lower Upper

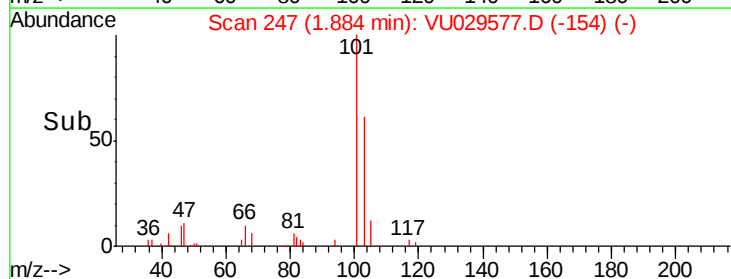
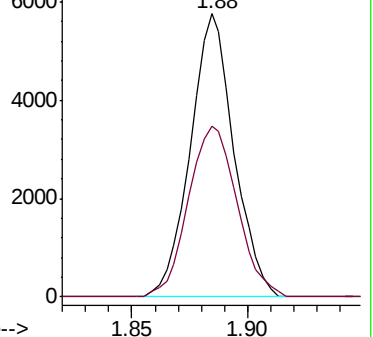
101 100

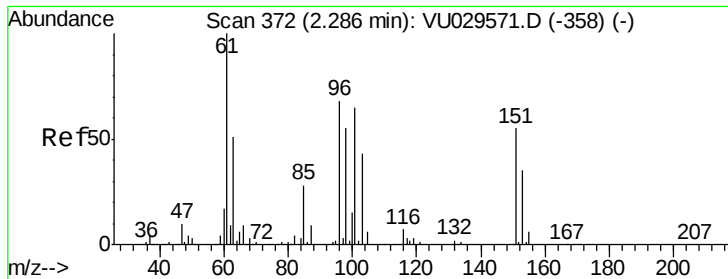
103 67.3 52.1 78.1



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#10

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

Concen: 0.057 ug/L

RT: 2.27 min Scan# 368

Delta R.T. -0.01 min

Lab File: VU029577.D

Acq: 20 Feb 2019 13:51

Instrument :

MSVOA\_U

ClientSampleId :

C0AM4DL

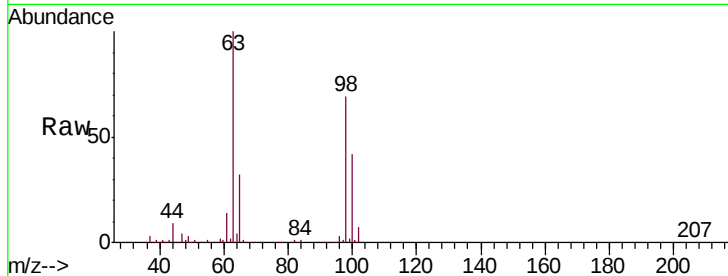
Tgt Ion: 101 Resp: 1038

Ion Ratio Lower Upper

101 100

85 0.0 35.1 52.7#

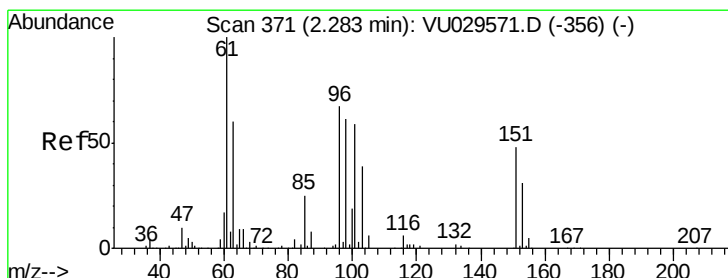
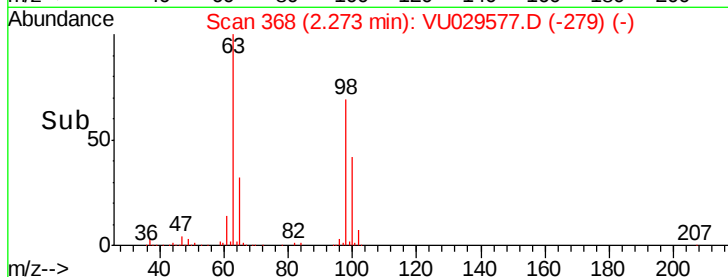
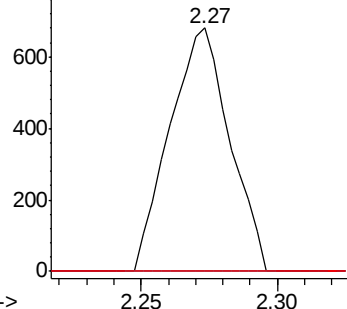
151 0.0 67.0 100.6#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 0.198 ug/L

RT: 2.28 min Scan# 371

Delta R.T. -0.00 min

Lab File: VU029577.D

Acq: 20 Feb 2019 13:51

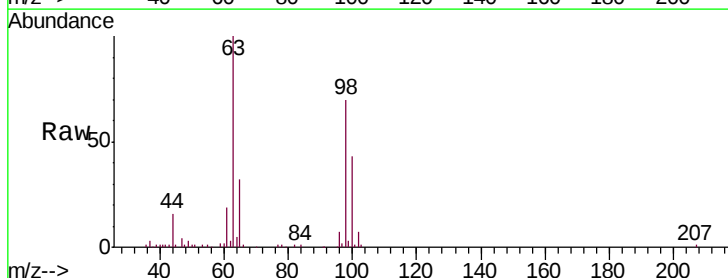
Tgt Ion: 96 Resp: 3425

Ion Ratio Lower Upper

96 100

61 280.0 115.1 213.7#

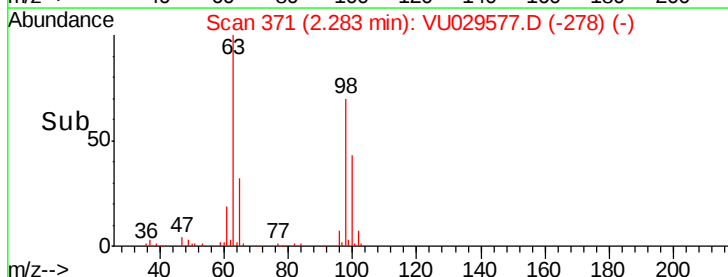
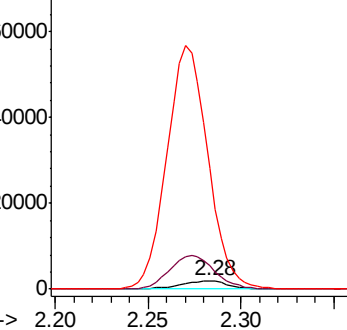
63 1440.9 83.5 155.1#

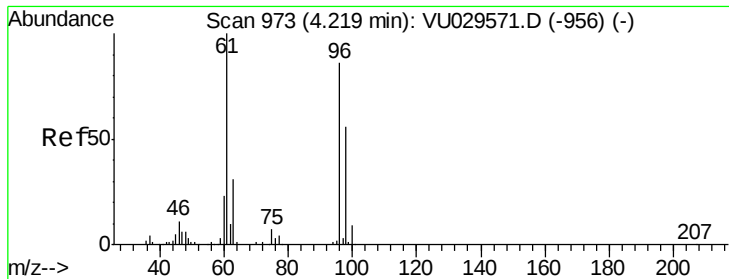


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0



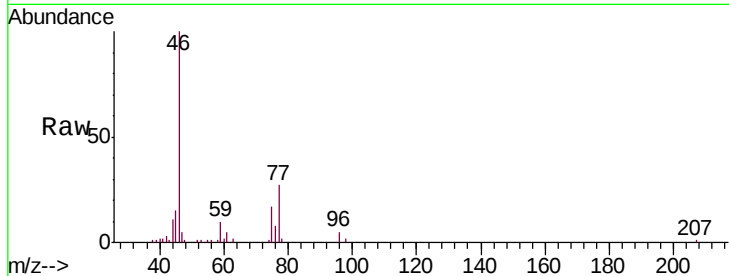


#22

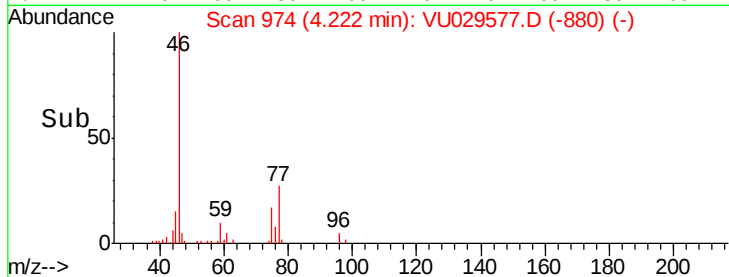
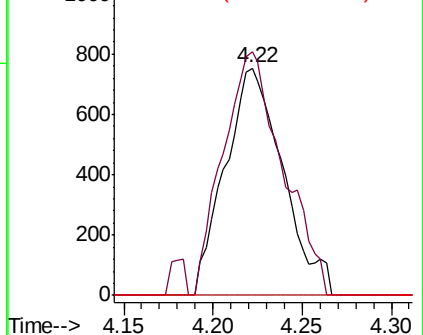
cis-1,2-Dichloroethene  
 Concen: 0.100 ug/L  
 RT: 4.22 min Scan# 974  
 Delta R.T. 0.00 min  
 Lab File: VU029577.D  
 Acq: 20 Feb 2019 13:51

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0AM4DL

Tgt Ion: 96 Resp: 1700  
 Ion Ratio Lower Upper  
 96 100  
 61 107.2 79.9 148.5  
 68 0.0 0.0 0.0



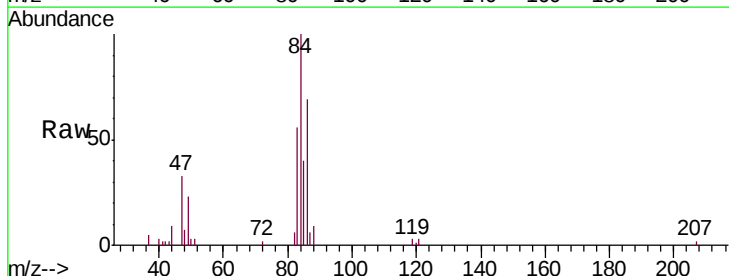
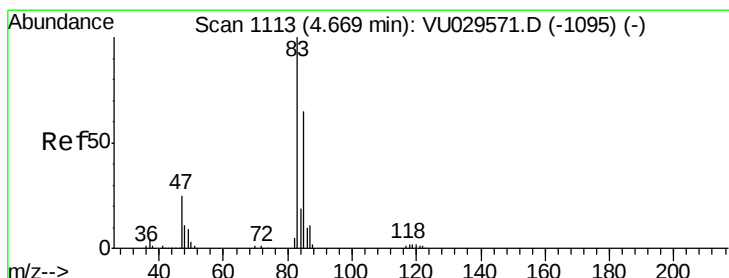
Abundance Ion 96.00 (95.70 to 96.70): VU0  
 Ion 61.05 (60.75 to 61.75): VU0  
 Ion 68.15 (67.85 to 68.85): VU0



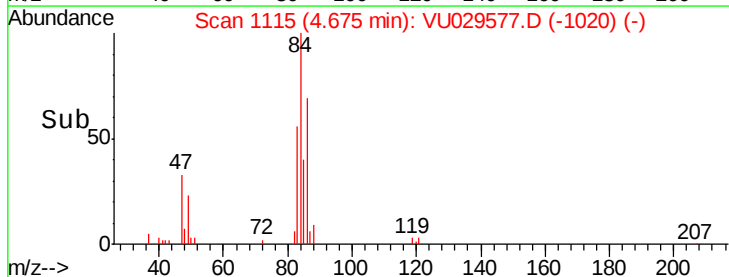
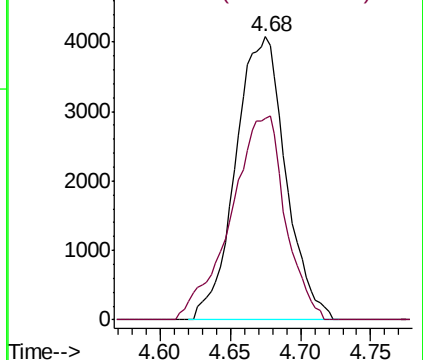
#25

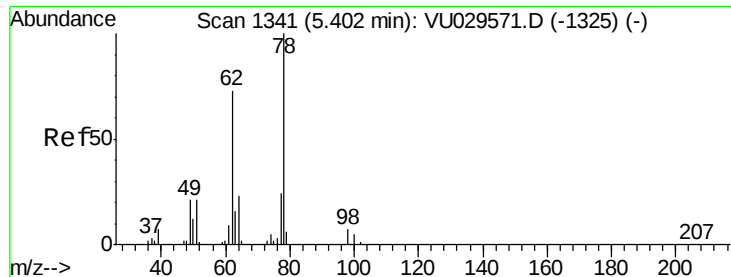
Chloroform  
 Concen: 0.365 ug/L  
 RT: 4.68 min Scan# 1115  
 Delta R.T. 0.01 min  
 Lab File: VU029577.D  
 Acq: 20 Feb 2019 13:51

Tgt Ion: 83 Resp: 10122  
 Ion Ratio Lower Upper  
 83 100  
 85 71.3 47.8 88.8



Abundance Ion 83.05 (82.75 to 83.75): VU0  
 Ion 85.00 (84.70 to 85.70): VU0





#27

1,2-Dichloroethane

Concen: 0.282 ug/L

RT: 5.41 min Scan# 1343

Delta R.T. 0.01 min

Lab File: VU029577.D

Acq: 20 Feb 2019 13:51

Instrument :

MSVOA\_U

ClientSampleId :

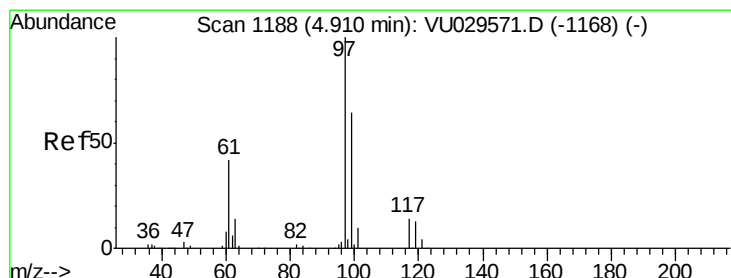
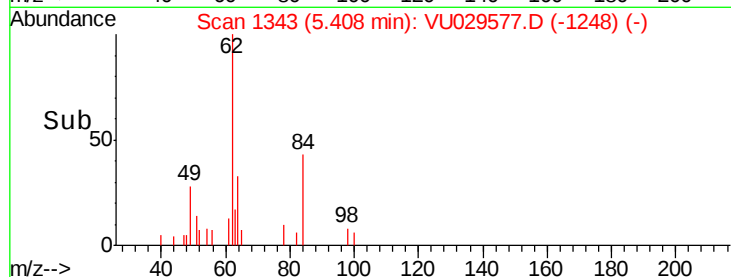
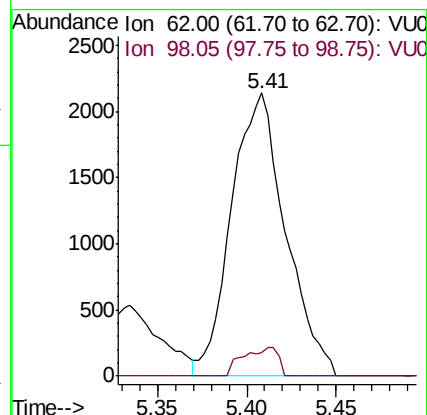
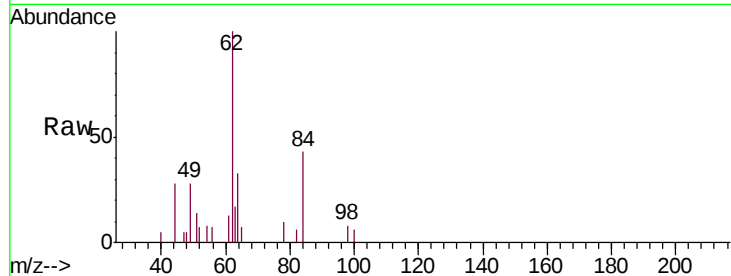
C0AM4DL

Tgt Ion: 62 Resp: 4518

Ion Ratio Lower Upper

62 100

98 8.4 8.4 12.6



#29

1,1,1-Trichloroethane

Concen: 0.121 ug/L

RT: 4.91 min Scan# 1188

Delta R.T. -0.00 min

Lab File: VU029577.D

Acq: 20 Feb 2019 13:51

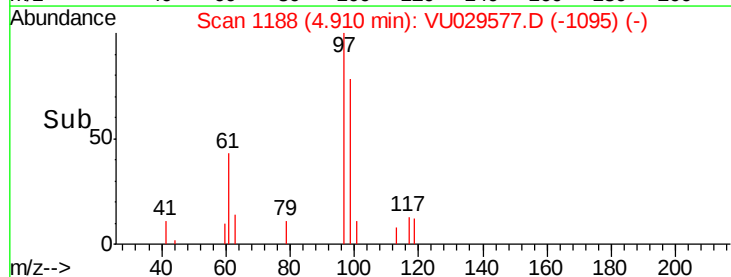
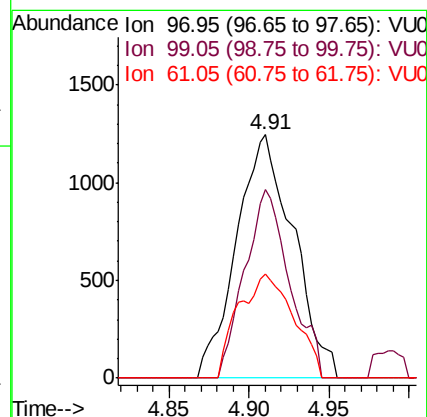
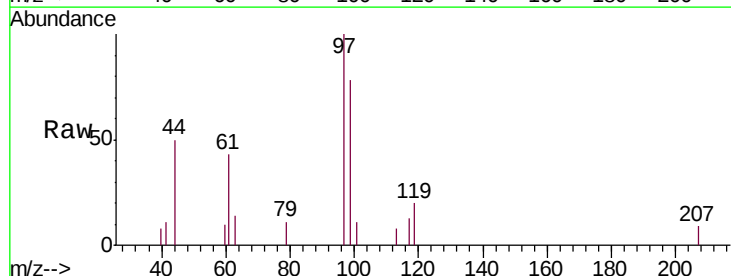
Tgt Ion: 97 Resp: 3029

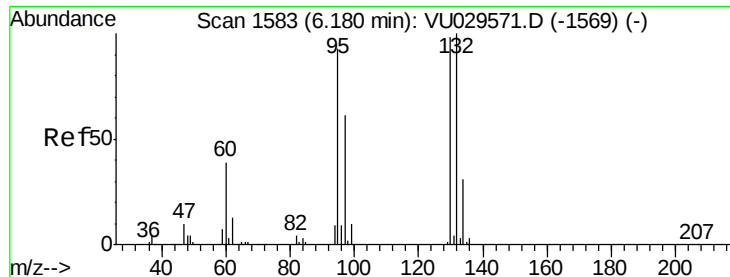
Ion Ratio Lower Upper

97 100

99 60.9 52.2 78.2

61 41.6 32.0 48.0





#34

Trichloroethene

Concen: 11.783 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. -0.00 min

Lab File: VU029577.D

Acq: 20 Feb 2019 13:51

Instrument :

MSVOA\_U

ClientSampleId :

C0AM4DL

Tgt Ion: 95 Resp: 197599

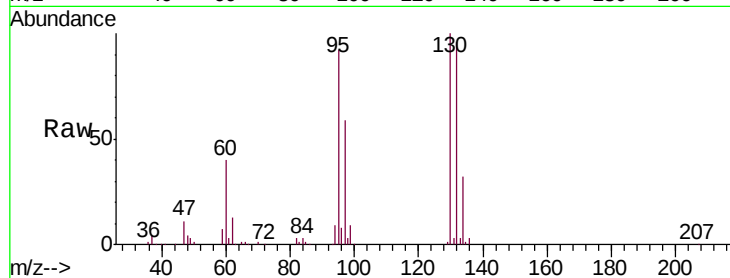
Ion Ratio Lower Upper

95 100

97 64.5 46.3 86.1

132 104.3 72.9 135.3

130 109.1 79.2 147.0

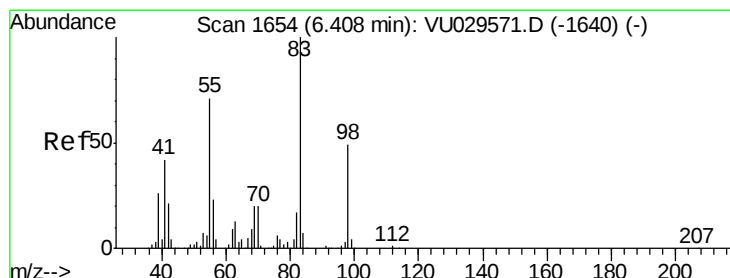
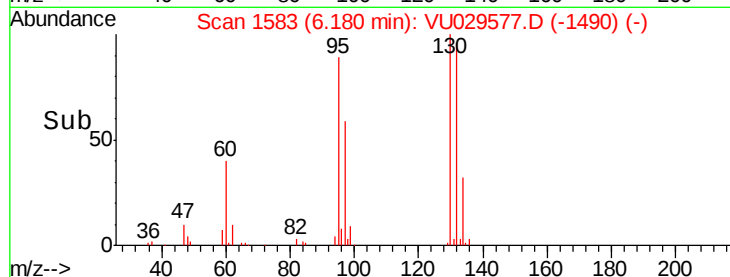
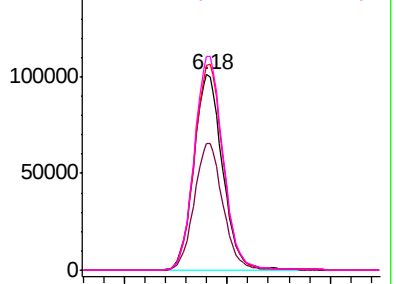


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 0.622 ug/L

RT: 6.33 min Scan# 1629

Delta R.T. -0.08 min

Lab File: VU029577.D

Acq: 20 Feb 2019 13:51

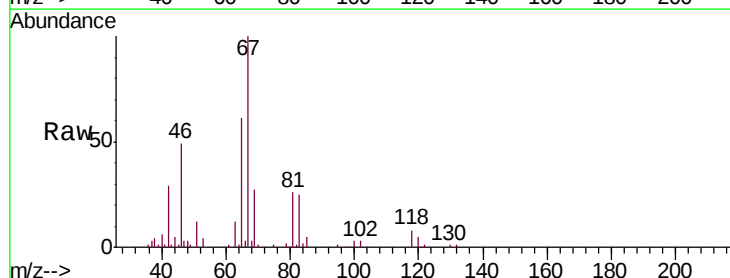
Tgt Ion: 83 Resp: 17539

Ion Ratio Lower Upper

83 100

55 0.3 55.9 83.9#

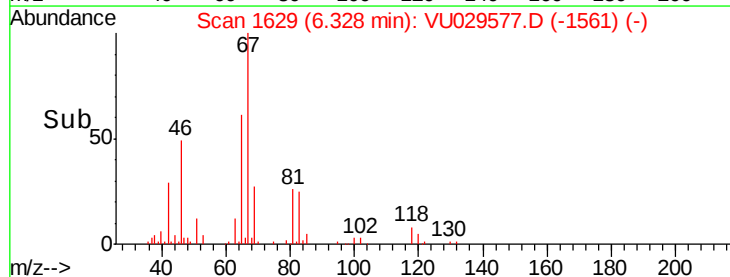
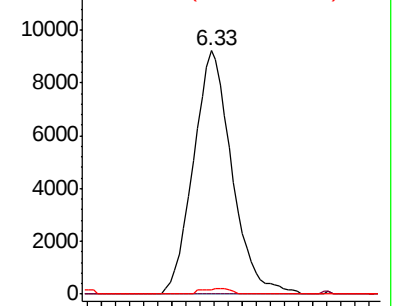
98 1.7 38.6 57.8#

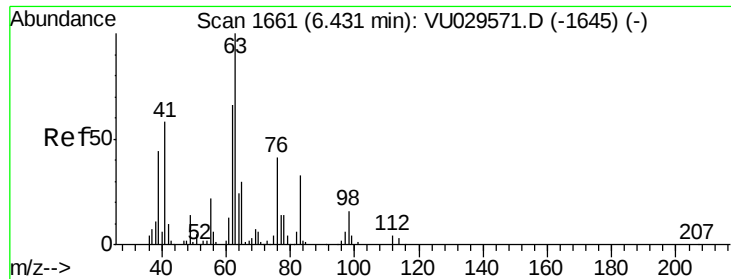


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 0.549 ug/L

RT: 6.33 min Scan# 1629

Delta R.T. -0.10 min

Lab File: VU029577.D

Acq: 20 Feb 2019 13:51

Instrument :

MSVOA\_U

ClientSampled :

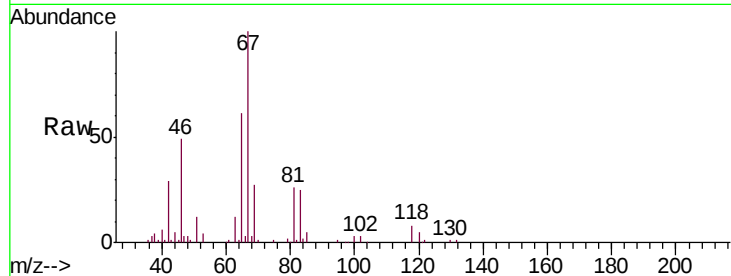
C0AM4DL

Tgt Ion: 63 Resp: 8208

Ion Ratio Lower Upper

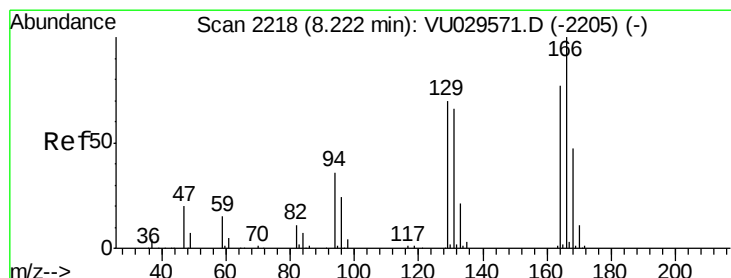
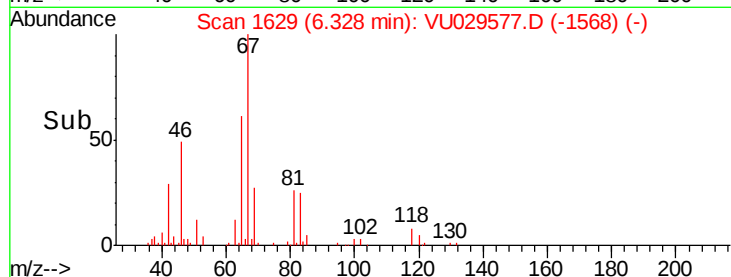
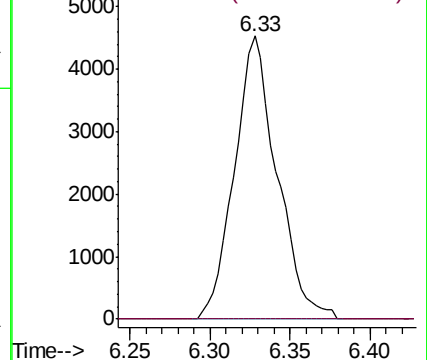
63 100

112 0.0 3.5 5.3#



Abundance Ion 63.10 (62.80 to 63.80): VU0

Ion 112.10 (111.80 to 112.80): V



#47

Tetrachloroethene

Concen: 1.199 ug/L

RT: 8.22 min Scan# 2219

Delta R.T. 0.00 min

Lab File: VU029577.D

Acq: 20 Feb 2019 13:51

Tgt Ion: 164 Resp: 18411

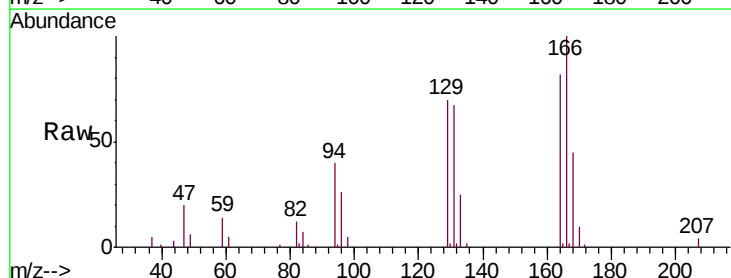
Ion Ratio Lower Upper

164 100

129 85.2 62.9 116.9

131 80.9 62.1 115.3

166 121.4 89.8 166.8

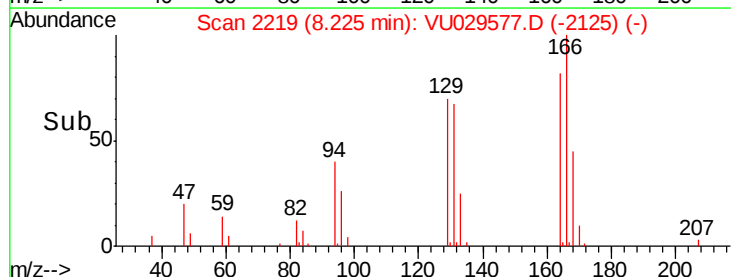
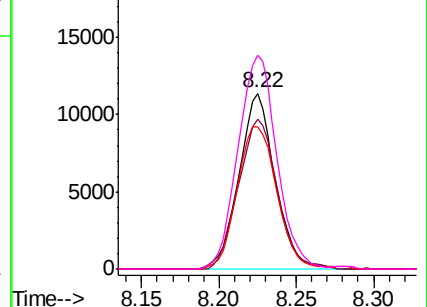


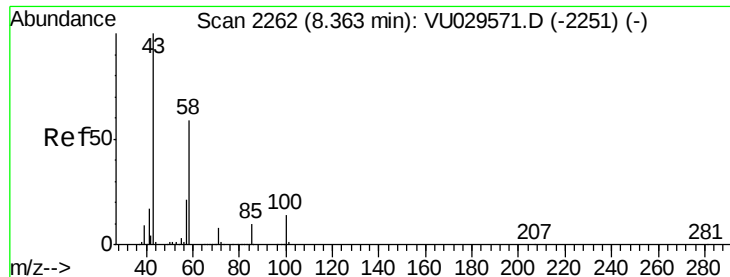
Abundance Ion 163.90 (163.60 to 164.60): V

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

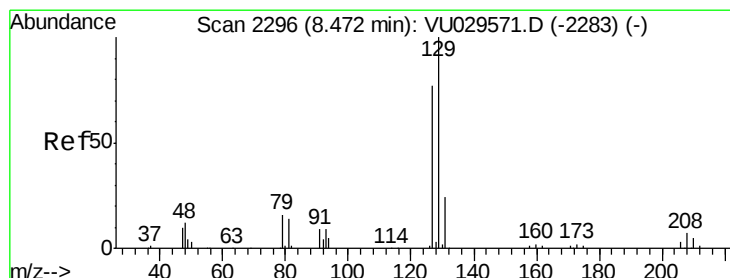
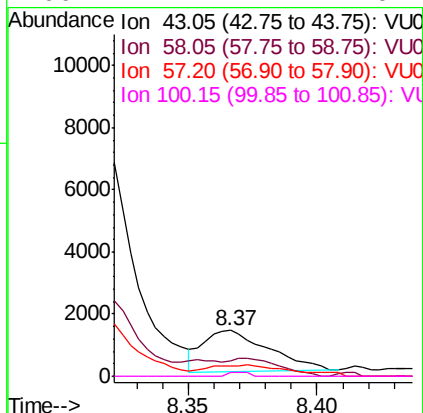
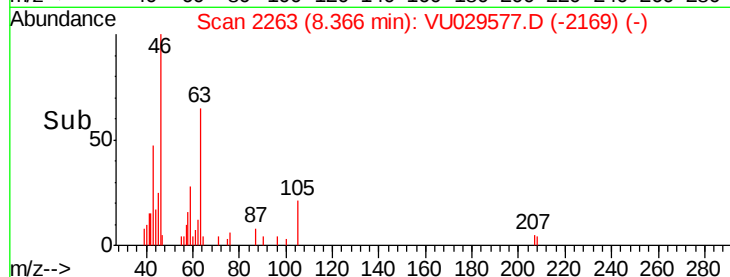
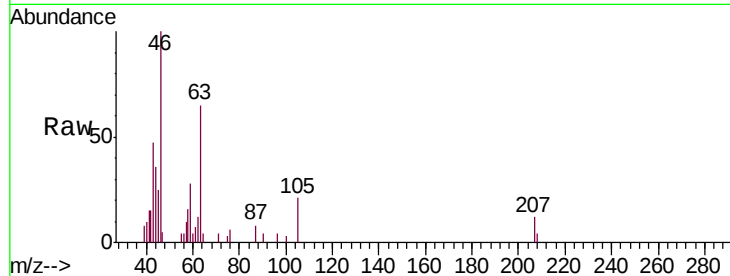




#48  
2-Hexanone  
Concen: 0.383 ug/L  
RT: 8.37 min Scan# 2263  
Delta R.T. 0.00 min  
Lab File: VU029577.D  
Acq: 20 Feb 2019 13:51

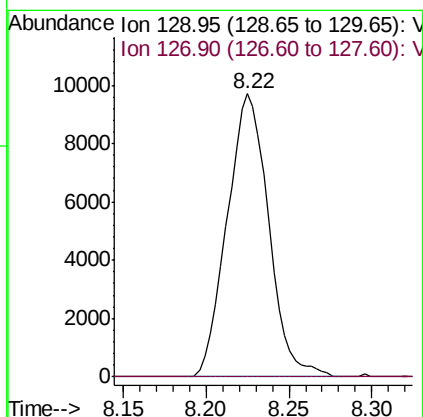
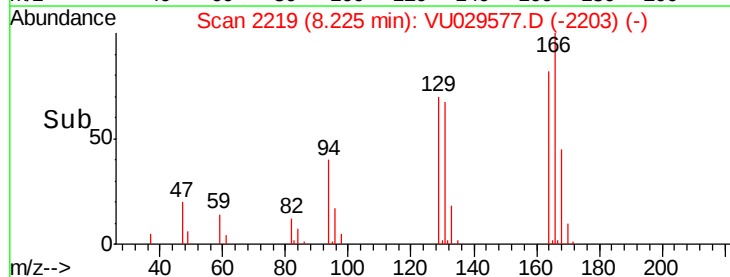
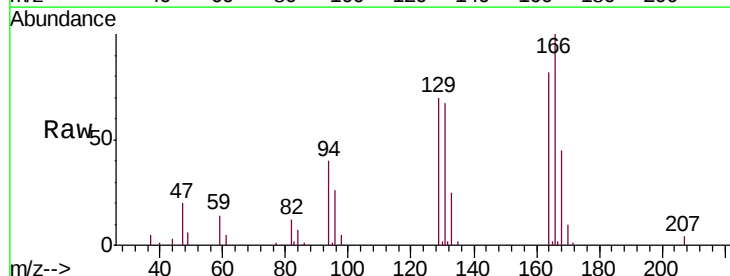
Instrument :  
MSVOA\_U  
ClientSampleId :  
C0AM4DL

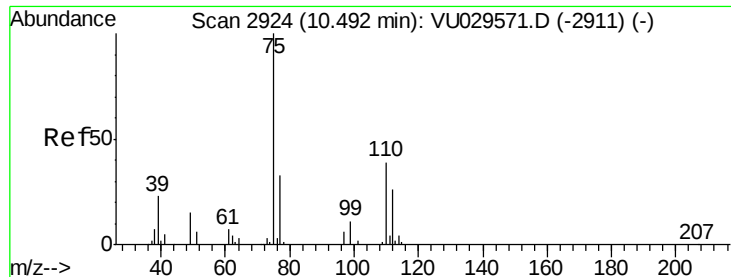
Tgt Ion: 43 Resp: 2406  
Ion Ratio Lower Upper  
43 100  
58 33.4 45.7 68.5#  
57 34.2 16.4 24.6#  
100 2.7 11.1 16.7#



#49  
Dibromochloromethane  
Concen: 1.093 ug/L  
RT: 8.22 min Scan# 2219  
Delta R.T. -0.25 min  
Lab File: VU029577.D  
Acq: 20 Feb 2019 13:51

Tgt Ion: 129 Resp: 16852  
Ion Ratio Lower Upper  
129 100  
127 0.0 53.3 99.1#





#59

1,2,3-Trichloropropane

Concen: 1.120 ug/L

RT: 11.48 min Scan# 3232

Delta R.T. 0.99 min

Lab File: VU029577.D

Acq: 20 Feb 2019 13:51

Instrument :

MSVOA\_U

ClientSampleId :

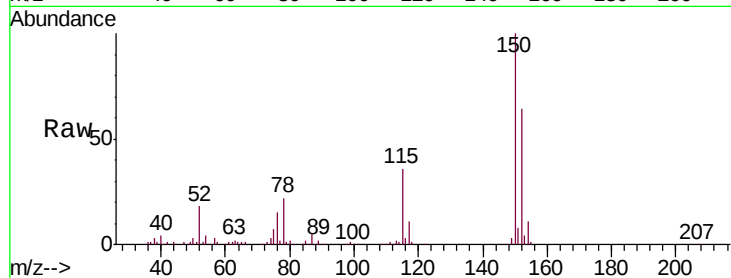
C0AM4DL

Tgt Ion: 75 Resp: 10729

Ion Ratio Lower Upper

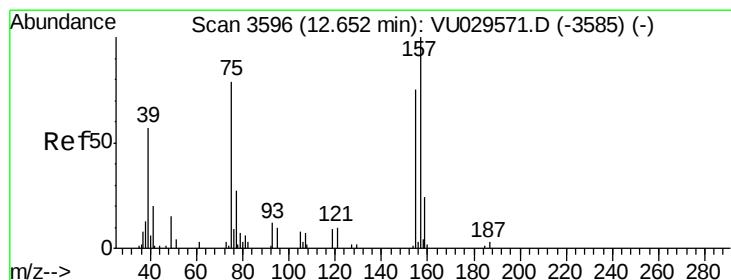
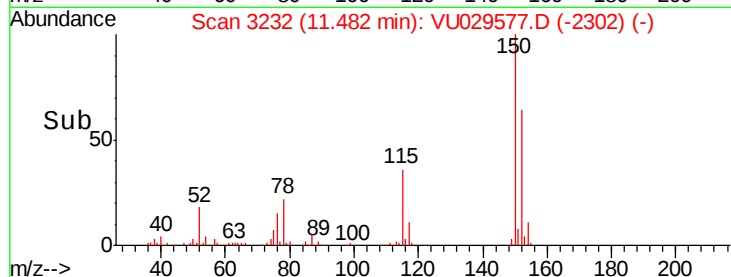
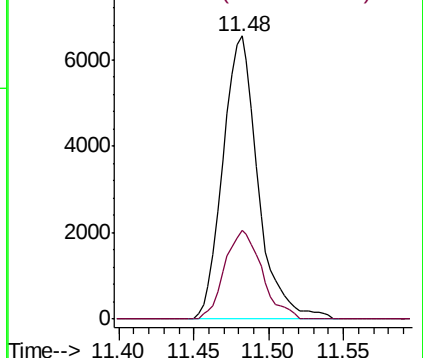
75 100

77 33.2 28.2 42.2



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0



#66

1,2-Dibromo-3-chloropropane

Concen: 0.264 ug/L

RT: 12.47 min Scan# 3539

Delta R.T. -0.18 min

Lab File: VU029577.D

Acq: 20 Feb 2019 13:51

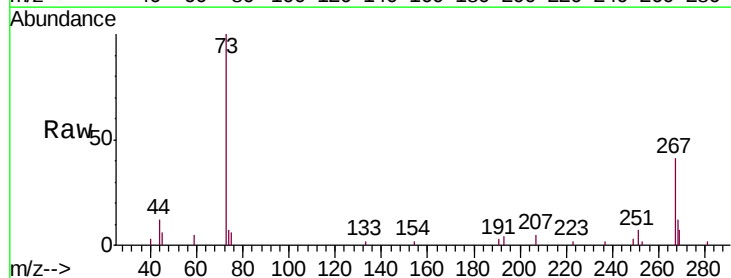
Tgt Ion: 75 Resp: 578

Ion Ratio Lower Upper

75 100

155 0.0 75.3 112.9#

157 0.0 103.0 154.4#



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

