

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U120618\  
 Data File : VU028509.D  
 Acq On : 06 Dec 2018 18:31  
 Operator : MD/SY  
 Sample : J6252-07  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Dec 07 06:16:43 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U120618W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Dec 07 00:39:42 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.98  | 168  | 101185   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.89  | 114  | 187598   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.09  | 117  | 177453   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 83070    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 5.31  | 65   | 84591    | 54.78 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 109.56% |          |
| 35) Dibromofluoromethane    | 4.88  | 113  | 61833    | 52.38 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 104.76% |          |
| 50) Toluene-d8              | 7.57  | 98   | 249585   | 53.44 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 106.88% |          |
| 62) 4-Bromofluorobenzene    | 10.31 | 95   | 90409    | 51.79 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 103.58% |          |

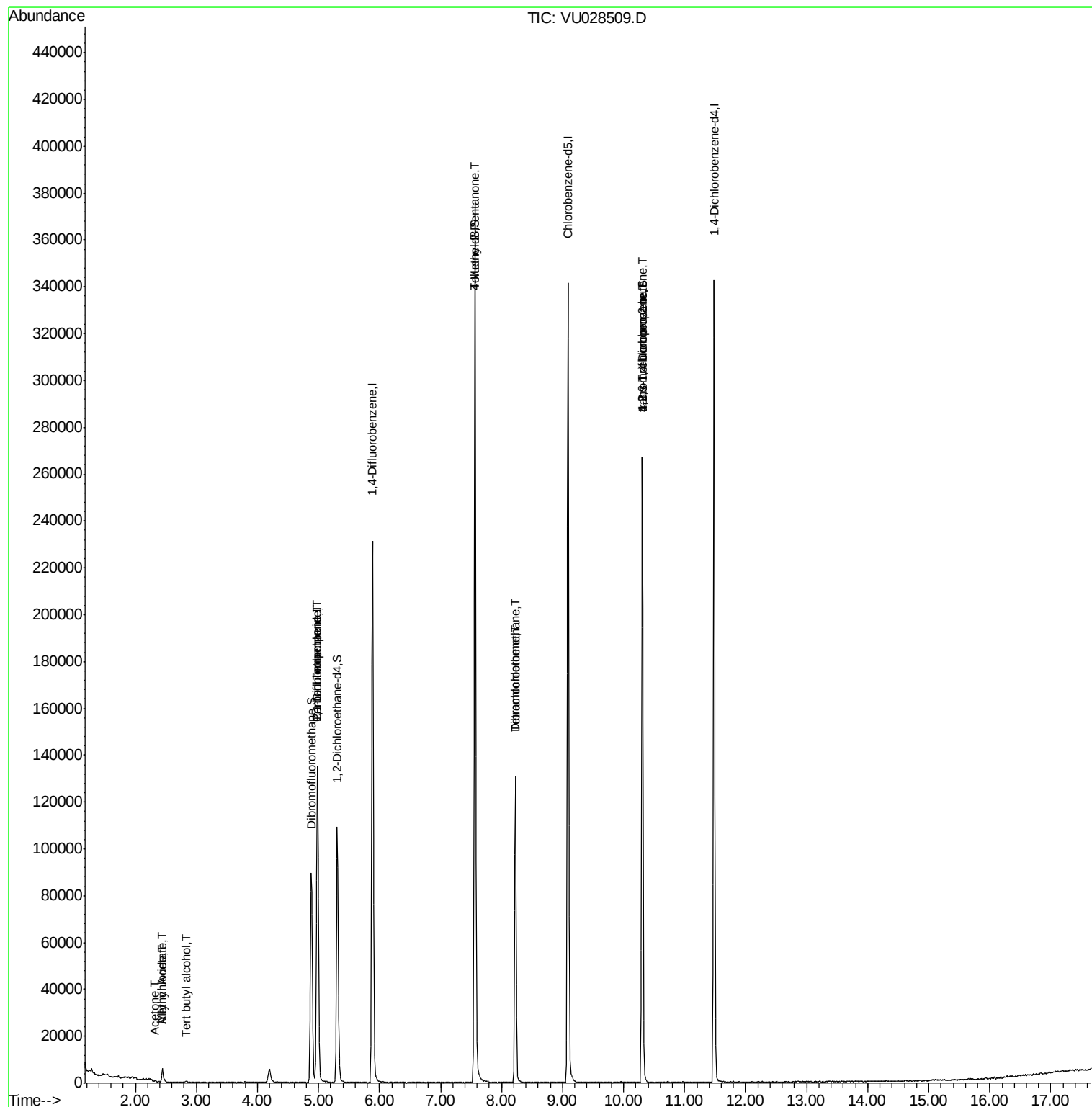
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 2.83  | 59   | 230      | 0.669     | ug/l # | 73     |
| 14) Allyl chloride             | 2.45  | 41   | 636      | 0.239     | ug/l # | 75     |
| 16) Acetone                    | 2.32  | 43   | 536      | 0.532     | ug/l # | 44     |
| 18) Methyl Acetate             | 2.44  | 43   | 1437     | 0.550     | ug/l # | 56     |
| 31) Cyclohexane                | 4.98  | 56   | 2052     | Below Cal | #      | 1      |
| 36) 1,1-Dichloropropene        | 4.98  | 75   | 9286     | 4.523     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 4.98  | 117  | 10322    | 6.238     | ug/l # | 15     |
| 51) 4-Methyl-2-Pentanone       | 7.56  | 43   | 1239     | 0.468     | ug/l # | 1      |
| 60) Dibromochloromethane       | 8.23  | 129  | 27815    | 20.198    | ug/l # | 10     |
| 64) Tetrachloroethene          | 8.23  | 164  | 28401    | 23.994    | ug/l   | 96     |
| 76) 1,2,3-Trichloropropane     | 10.30 | 75   | 47195    | 22.249    | ug/l # | 36     |
| 81) trans-1,4-Dichloro-2-buten | 10.30 | 75   | 47195    | 54.654    | ug/l # | 100    |

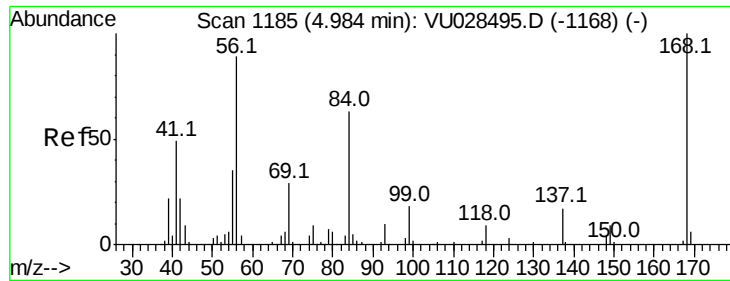
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_U  
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Quant Time: Dec 07 06:16:43 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\82U120618W.M  
Quant Title : SW846 8260  
QLast Update : Fri Dec 07 00:39:42 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.00 min

Lab File: VU028509.D

Acq: 06 Dec 2018 18:31

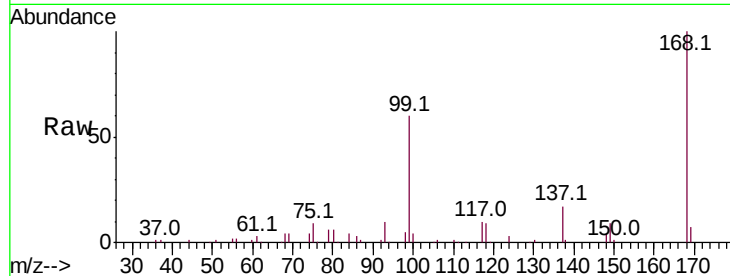
Instrument :  
MSVOA\_U  
ClientSampled :

Tot Ion:168 Resp: 101185

Ion Ratio Lower Upper

168 100

99 59.8 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): VU028495.D (-1168) (-)

Ion 98.90 (98.60 to 99.60): VU028495.D (-1168) (-)

4.98

50000

40000

30000

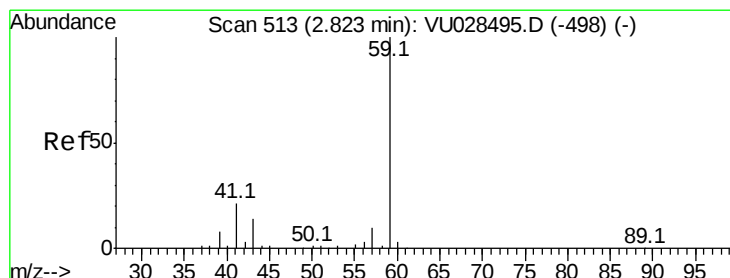
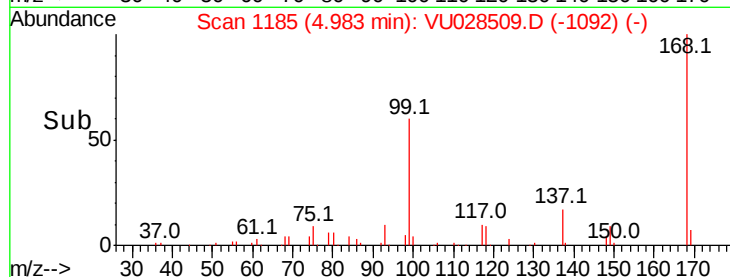
20000

10000

0

4.90 5.00 5.10

Time-->



#11

Tert butyl alcohol

Concen: 0.669 ug/l

RT: 2.83 min Scan# 514

Delta R.T. 0.00 min

Lab File: VU028509.D

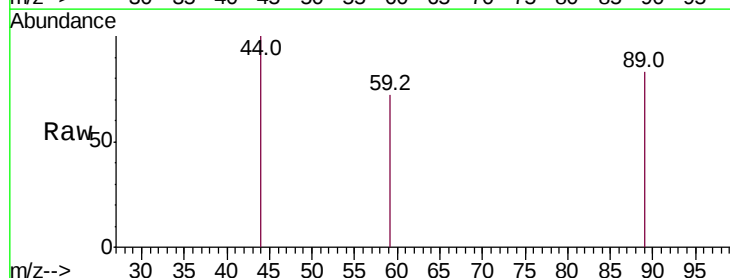
Acq: 06 Dec 2018 18:31

Tgt Ion: 59 Resp: 230

Ion Ratio Lower Upper

59 100

57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VU028495.D (-498) (-)

Ion 57.00 (56.70 to 57.70): VU028495.D (-498) (-)

2.83

250

200

150

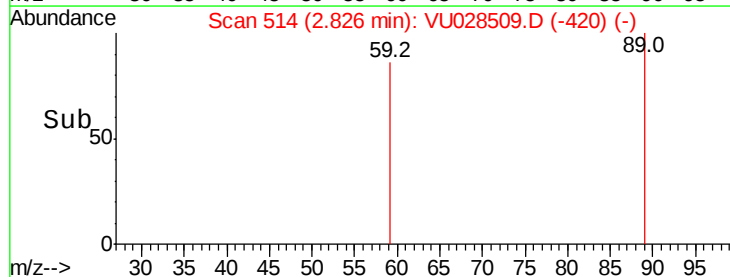
100

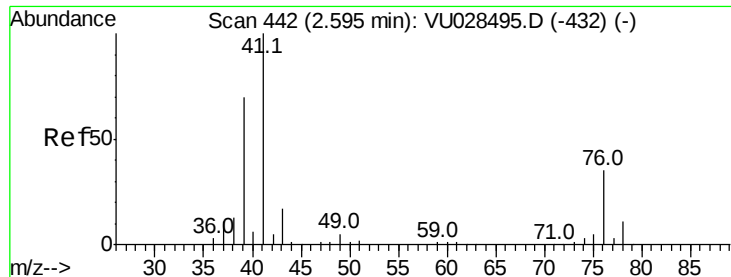
50

0

2.80 2.81 2.82 2.83 2.84

Time-->





#14

Allvl chloride

Concen: 0.239 ug/l

RT: 2.45 min Scan# 397

Delta R.T. -0.14 min

Lab File: VU028509.D

Acq: 06 Dec 2018 18:31

Instrument :

MSVOA\_U

ClientSampleId :

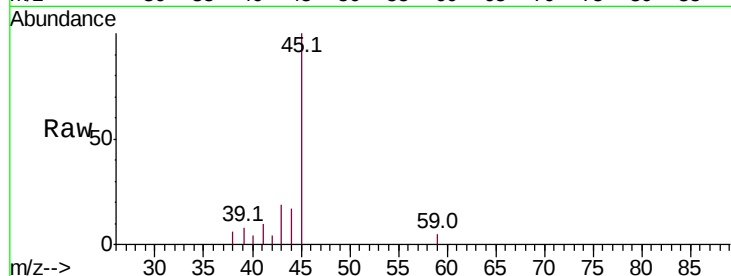
Tot Ion: 41 Resp: 636

Ion Ratio Lower Upper

41 100

39 56.4 50.8 76.2

76 0.0 24.8 37.2#



Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 39.00 (38.70 to 39.70): VU0

Ion 75.90 (75.60 to 76.60): VU0

2.45

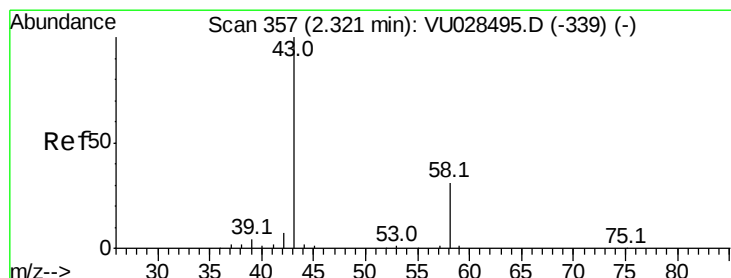
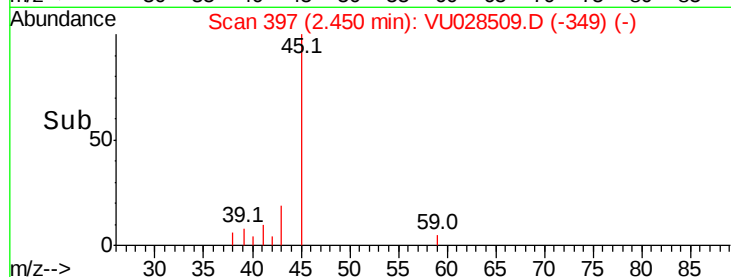
300

200

100

0

Time-->



#16

Acetone

Concen: 0.532 ug/l

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU028509.D

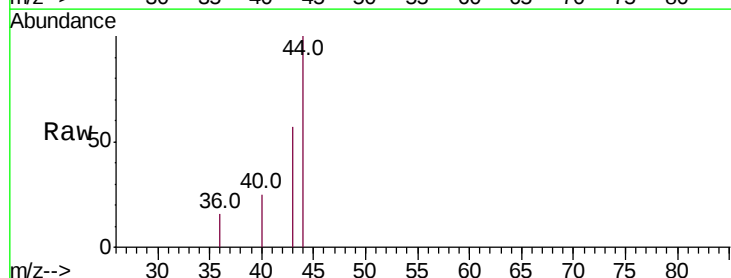
Acq: 06 Dec 2018 18:31

Tgt Ion: 43 Resp: 536

Ion Ratio Lower Upper

43 100

58 0.0 24.6 37.0#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

2.32

400

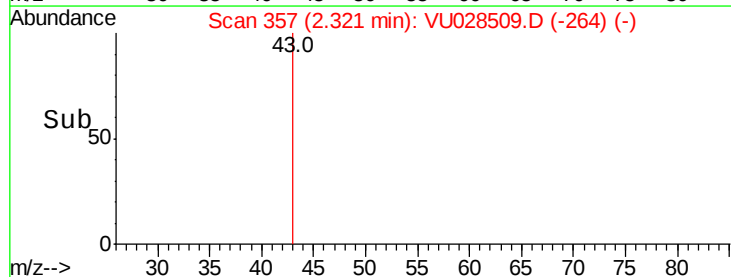
300

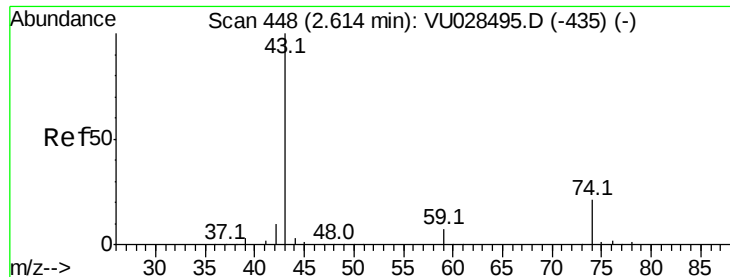
200

100

0

Time-->

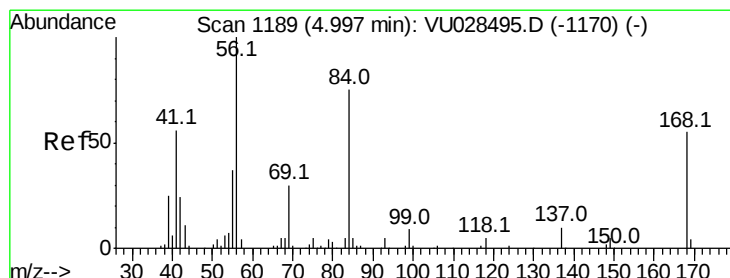
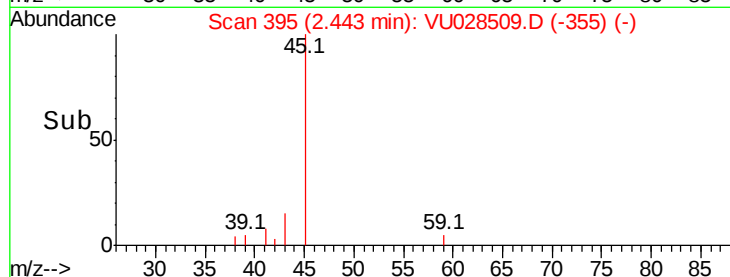
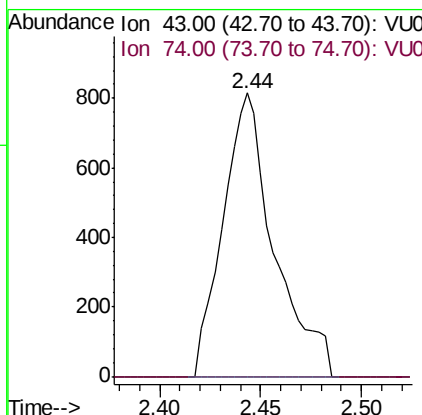
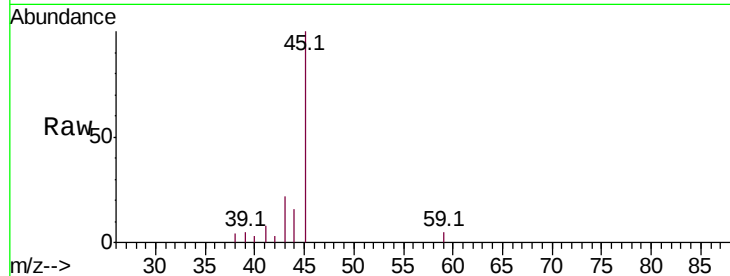




#18  
Methvl Acetate  
Concen: 0.550 ug/l  
RT: 2.44 min Scan# 395  
Delta R.T. -0.17 min  
Lab File: VU028509.D  
Acq: 06 Dec 2018 18:31

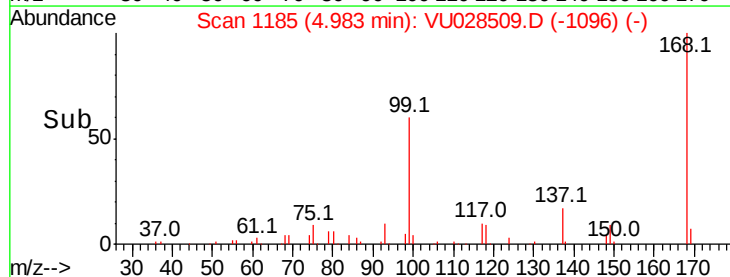
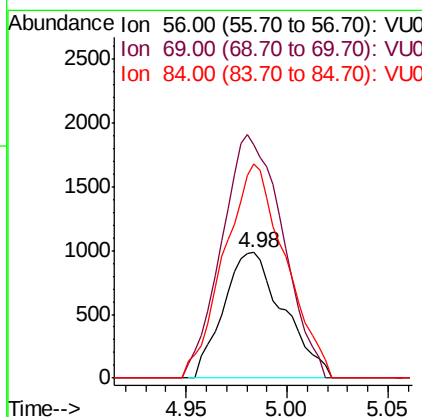
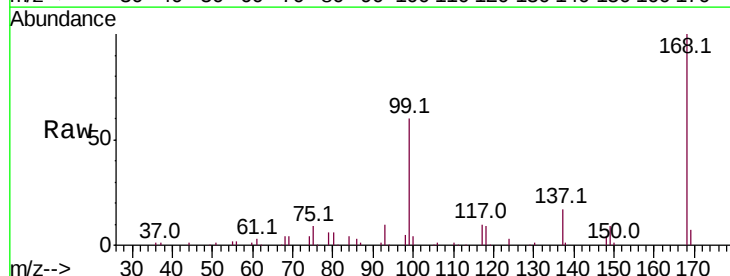
Instrument :  
MSVOA\_U  
ClientSampleId :

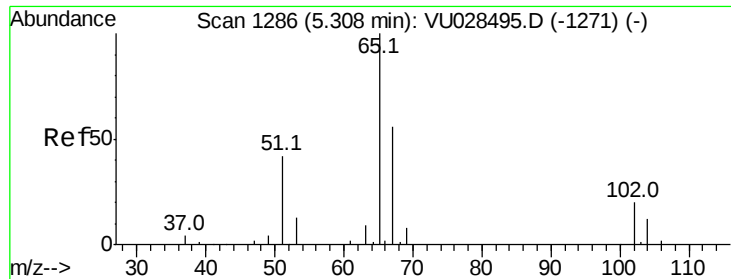
Tot Ion: 43 Resp: 1437  
Ion Ratio Lower Upper  
43 100  
74 0.0 16.4 24.6#



#31  
Cyclohexane  
Concen: Below Cal  
RT: 4.98 min Scan# 1185  
Delta R.T. -0.01 min  
Lab File: VU028509.D  
Acq: 06 Dec 2018 18:31

Tgt Ion: 56 Resp: 2052  
Ion Ratio Lower Upper  
56 100  
69 186.0 24.0 36.0#  
84 170.0 59.7 89.5#

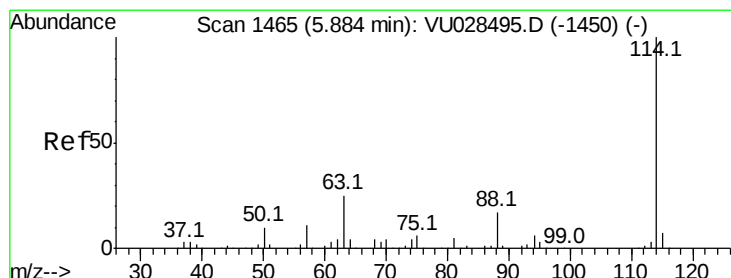
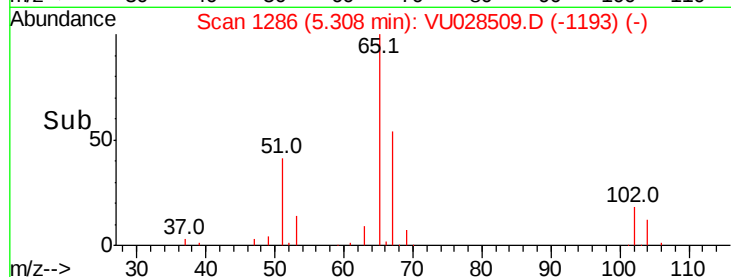
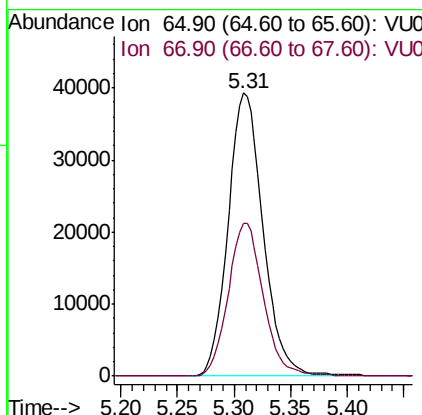
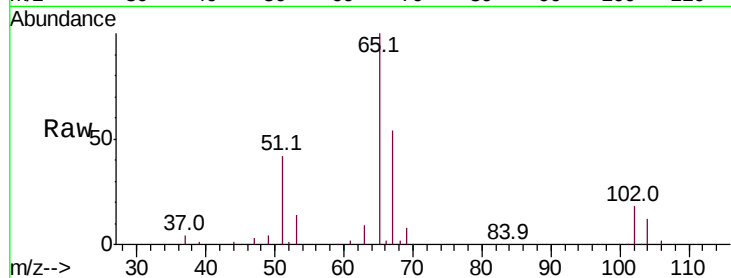




#33  
 1,2-Dichloroethane-d4  
 Concen: 54.782 ug/l  
 RT: 5.31 min Scan# 1286  
 Delta R.T. -0.00 min  
 Lab File: VU028509.D  
 Acq: 06 Dec 2018 18:31

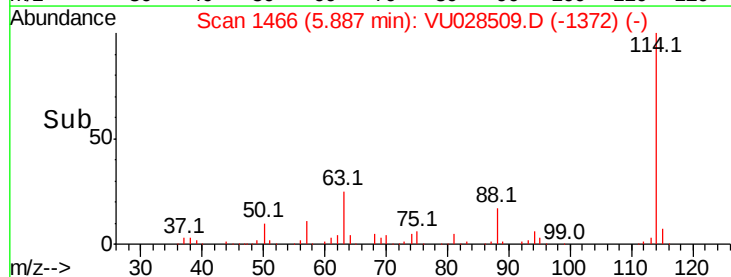
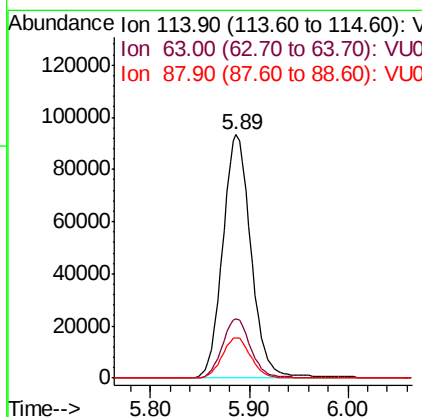
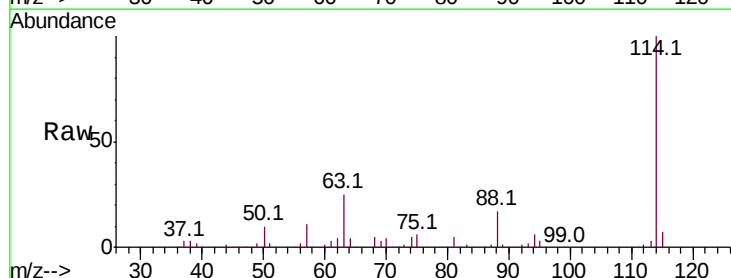
Instrument :  
 MSVOA\_U  
 ClientSampled :

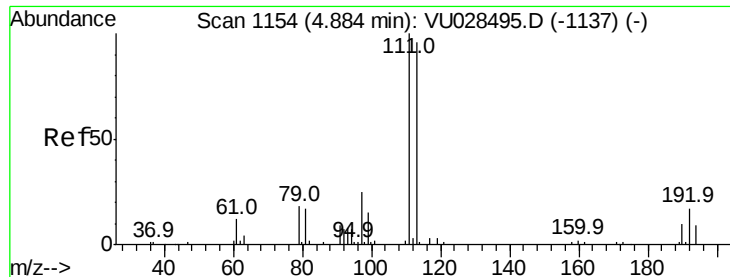
Tot Ion: 65 Resp: 84591  
 Ion Ratio Lower Upper  
 65 100  
 67 54.2 0.0 110.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.89 min Scan# 1466  
 Delta R.T. 0.00 min  
 Lab File: VU028509.D  
 Acq: 06 Dec 2018 18:31

Tgt Ion: 114 Resp: 187598  
 Ion Ratio Lower Upper  
 114 100  
 63 24.6 0.0 49.2  
 88 16.6 0.0 33.4





#35

Dibromofluoromethane

Concen: 52.376 ug/l

RT: 4.88 min Scan# 1154

Delta R.T. -0.00 min

Lab File: VU028509.D

Acq: 06 Dec 2018 18:31

Instrument :  
MSVOA\_U  
ClientSampleId :

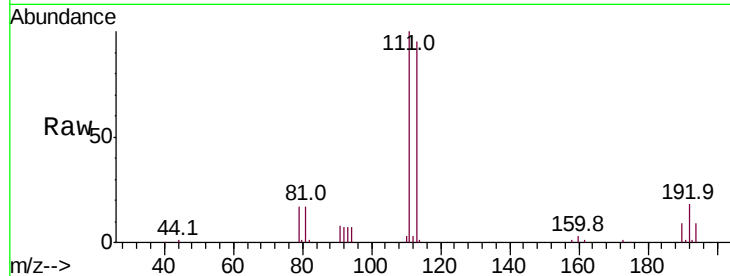
Tot Ion:113 Resp: 61833

Ion Ratio Lower Upper

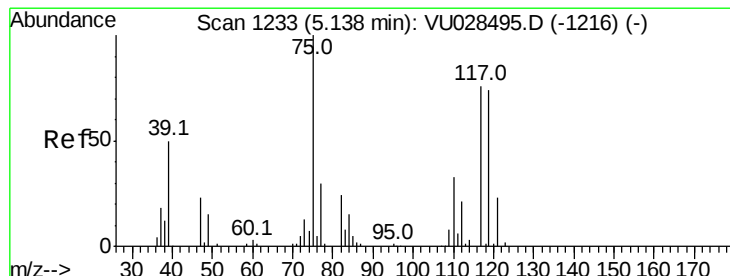
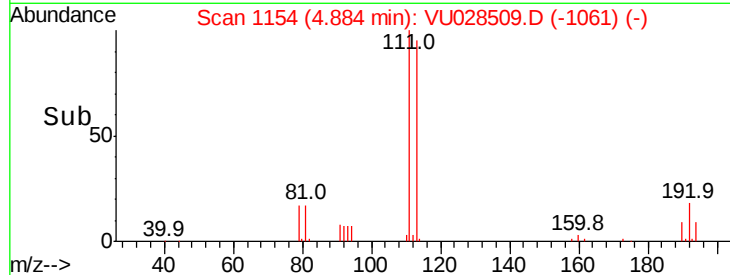
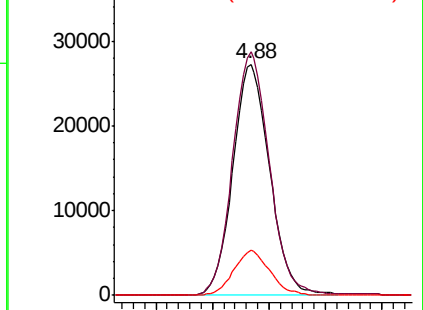
113 100

111 104.9 83.4 125.0

192 19.1 14.8 22.2



Abundance Ion 112.80 (112.50 to 113.50): V  
Ion 110.80 (110.50 to 111.50): V  
Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.523 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.15 min

Lab File: VU028509.D

Acq: 06 Dec 2018 18:31

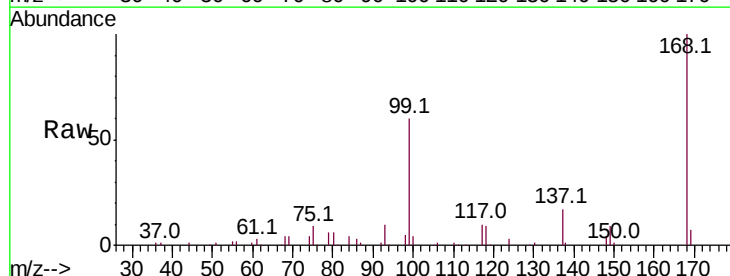
Tgt Ion: 75 Resp: 9286

Ion Ratio Lower Upper

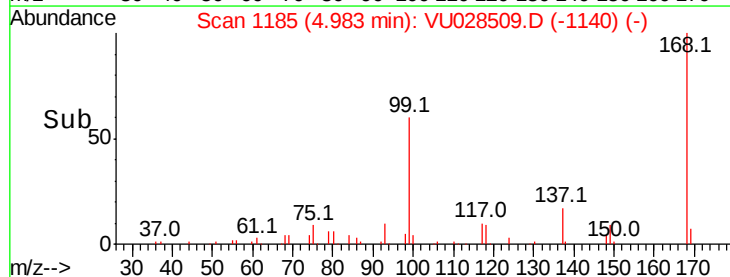
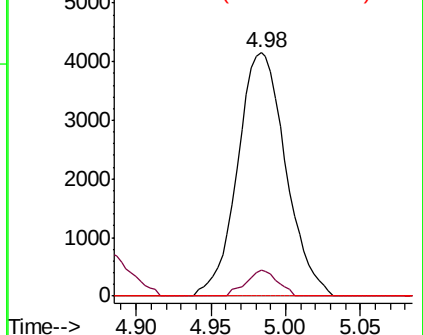
75 100

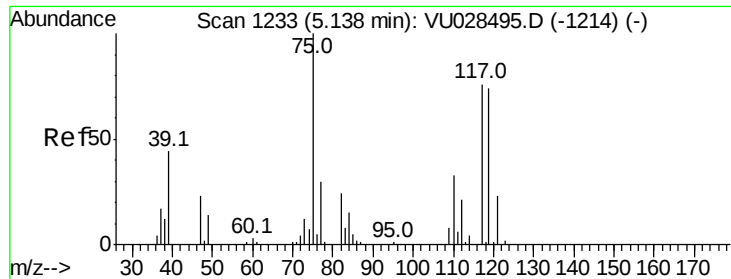
110 7.0 16.1 48.2#

77 0.0 24.5 36.7#



Abundance Ion 74.90 (74.60 to 75.60): VU0  
Ion 109.90 (109.60 to 110.60): V  
Ion 76.90 (76.60 to 77.60): VU0

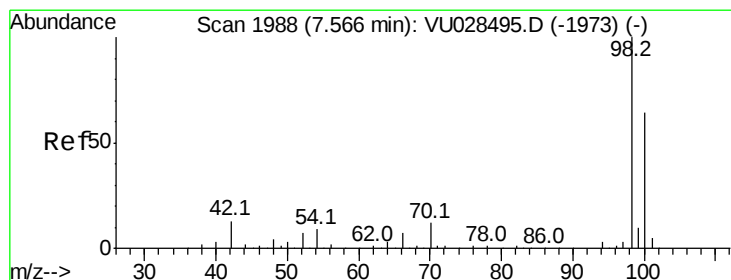
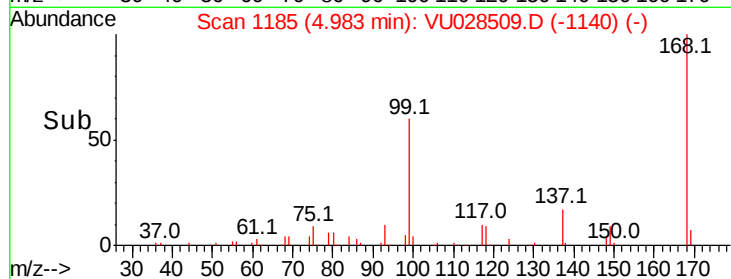
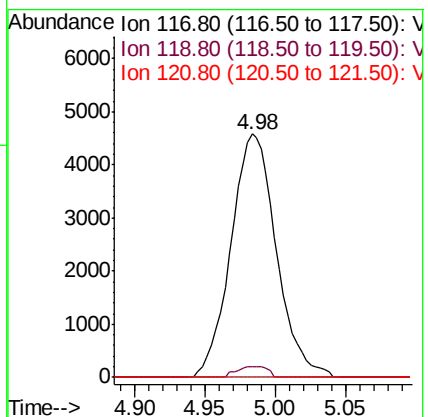
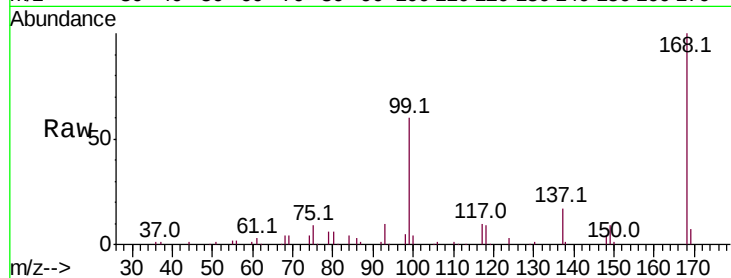




#38  
Carbon Tetrachloride  
Concen: 6.238 ug/l  
RT: 4.98 min Scan# 1185  
Delta R.T. -0.15 min  
Lab File: VU028509.D  
Acq: 06 Dec 2018 18:31

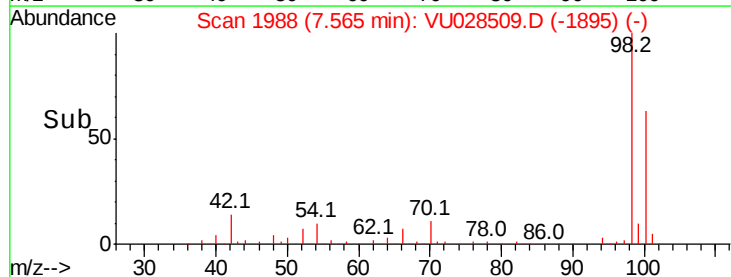
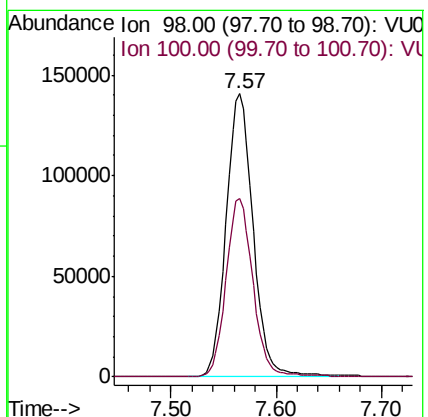
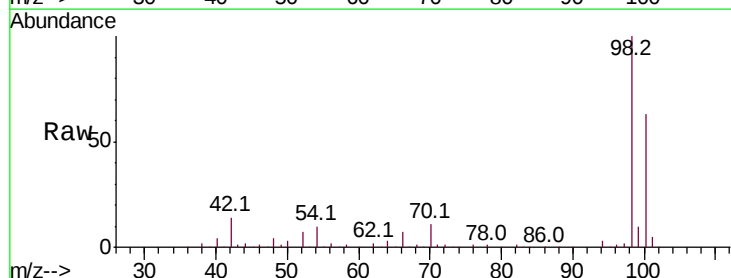
Instrument :  
MSVOA\_U  
ClientSampled :

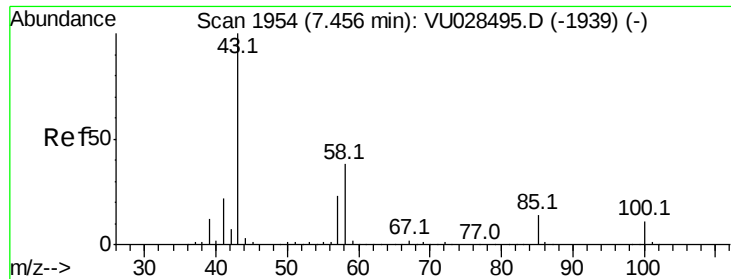
Tot Ion:117 Resp: 10322  
Ion Ratio Lower Upper  
117 100  
119 4.5 77.6 116.4#  
121 0.0 24.6 36.8#



#50  
Toluene-d8  
Concen: 53.443 ug/l  
RT: 7.57 min Scan# 1988  
Delta R.T. -0.00 min  
Lab File: VU028509.D  
Acq: 06 Dec 2018 18:31

Tgt Ion: 98 Resp: 249585  
Ion Ratio Lower Upper  
98 100  
100 62.8 51.0 76.6





#51

4-Methyl-2-Pentanone

Concen: 0.468 ug/l

RT: 7.56 min Scan# 1987

Delta R.T. 0.11 min

Lab File: VU028509.D

Acq: 06 Dec 2018 18:31

Instrument :

MSVOA\_U

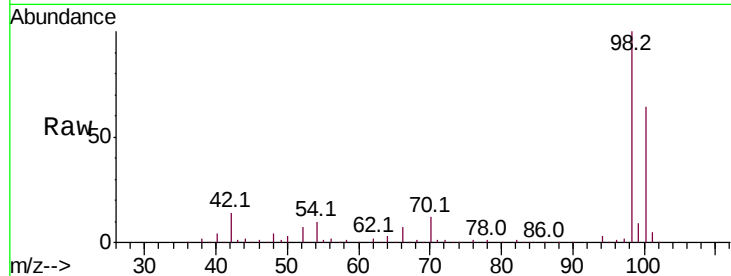
ClientSampled :

Tot Ion: 43 Resp: 1239

Ion Ratio Lower Upper

43 100

58 168.8 30.2 45.2#



Abundance Ion 43.00 (42.70 to 43.70): VU028495.D (-1939) (-)

Ion 58.00 (57.70 to 58.70): VU028495.D (-1939) (-)

1500

1000

500

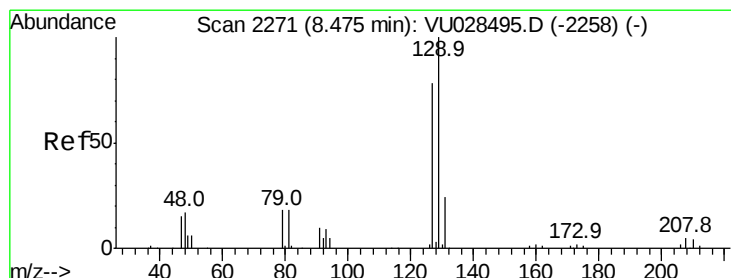
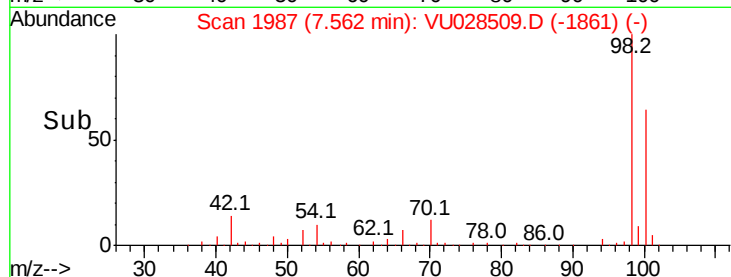
0

7.55

7.56

7.60

Time-->



#60

Dibromochloromethane

Concen: 20.198 ug/l

RT: 8.23 min Scan# 2194

Delta R.T. -0.25 min

Lab File: VU028509.D

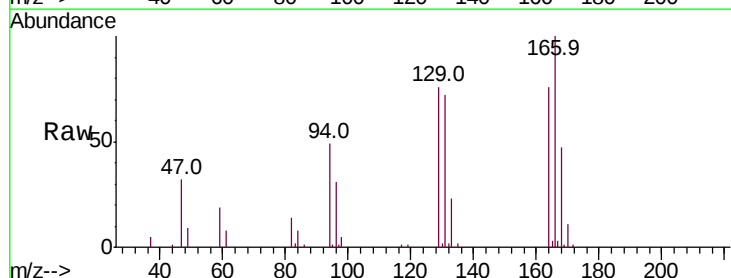
Acq: 06 Dec 2018 18:31

Tgt Ion: 129 Resp: 27815

Ion Ratio Lower Upper

129 100

127 0.0 39.1 117.3#



Abundance Ion 128.80 (128.50 to 129.50): VU028495.D (-2258) (-)

Ion 126.80 (126.50 to 127.50): VU028495.D (-2258) (-)

15000

10000

5000

0

8.15

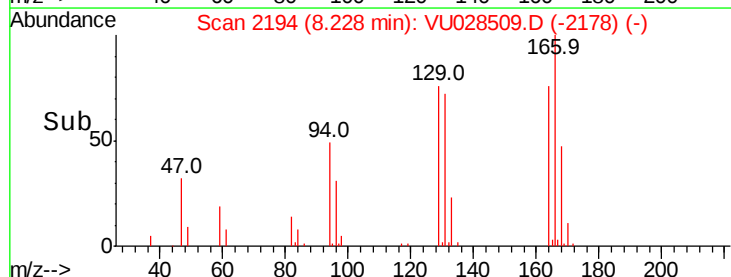
8.20

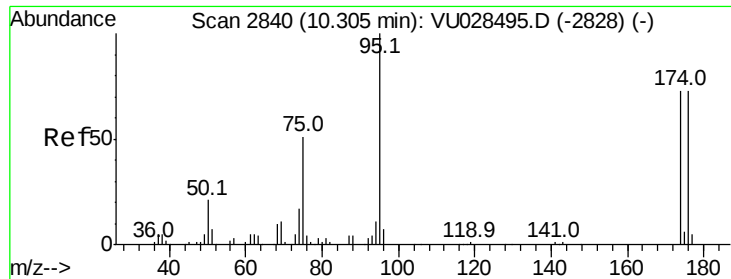
8.23

8.25

8.30

Time-->

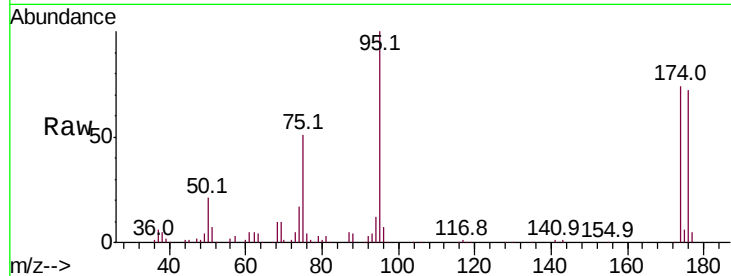




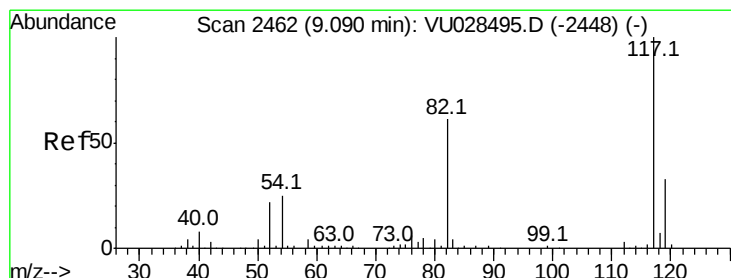
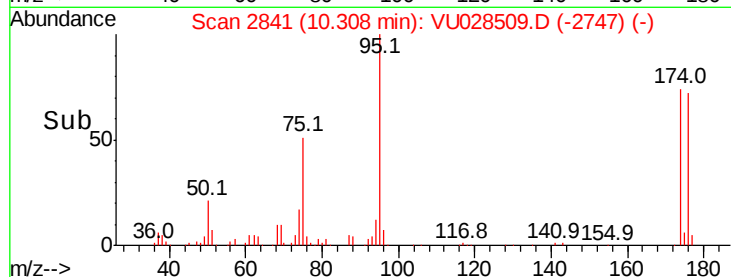
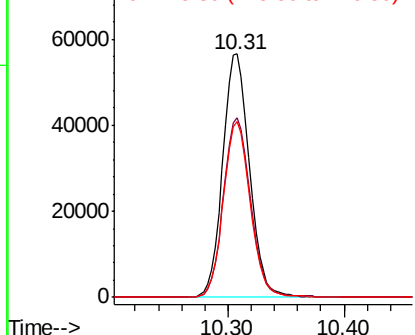
#62  
4-Bromofluorobenzene  
Concen: 51.795 ug/l  
RT: 10.31 min Scan# 2841  
Delta R.T. 0.00 min  
Lab File: VU028509.D  
Acq: 06 Dec 2018 18:31

Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 95 Resp: 90409  
Ion Ratio Lower Upper  
95 100  
174 74.4 0.0 150.4  
176 72.4 0.0 145.2

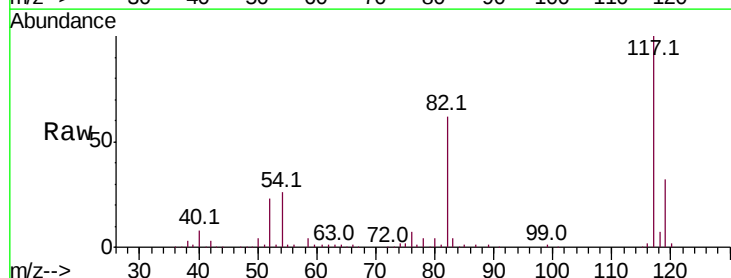


Abundance Ion 94.90 (94.60 to 95.60): VU0  
Ion 173.80 (173.50 to 174.50): V  
Ion 175.80 (175.50 to 176.50): V

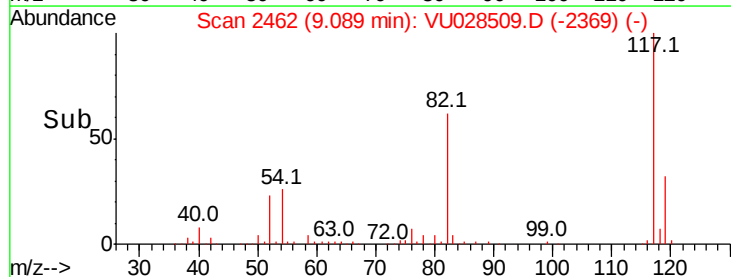
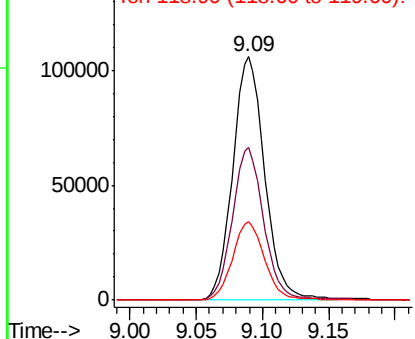


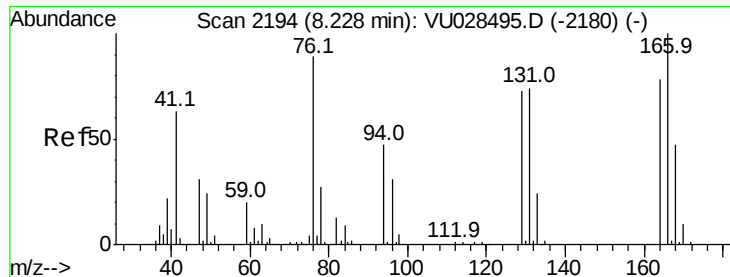
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.09 min Scan# 2462  
Delta R.T. -0.00 min  
Lab File: VU028509.D  
Acq: 06 Dec 2018 18:31

Tgt Ion: 117 Resp: 177453  
Ion Ratio Lower Upper  
117 100  
82 62.5 48.9 73.3  
119 32.2 26.2 39.4



Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VU0  
Ion 118.90 (118.60 to 119.60): V





#64

Tetrachloroethene

Concen: 23.994 ug/l

RT: 8.23 min Scan# 2194

Delta R.T. -0.00 min

Lab File: VU028509.D

Acq: 06 Dec 2018 18:31

Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion:164 Resp: 28401

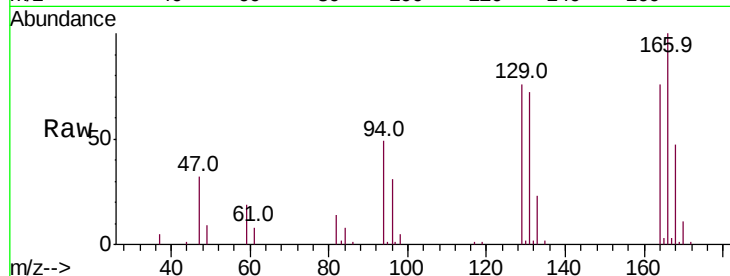
Ion Ratio Lower Upper

164 100

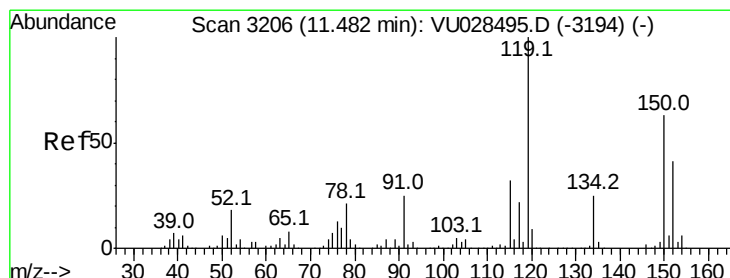
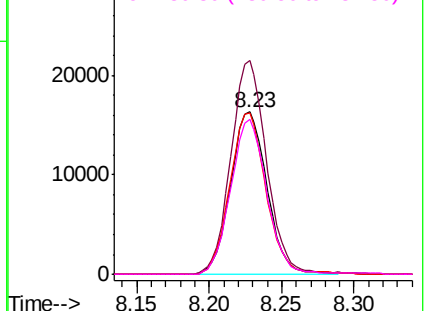
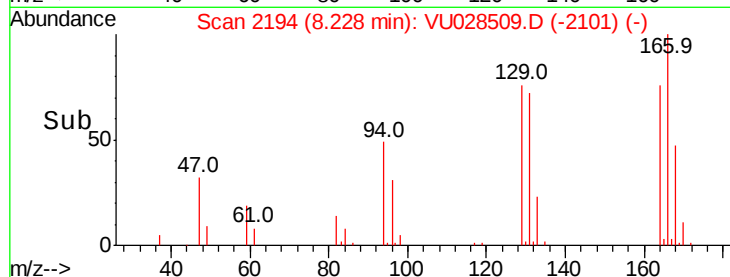
166 131.6 101.9 152.9

129 99.5 74.9 112.3

131 95.4 75.4 113.0



Abundance Ion 163.80 (163.50 to 164.50): V  
Ion 165.80 (165.50 to 166.50): V  
Ion 128.80 (128.50 to 129.50): V  
Ion 130.80 (130.50 to 131.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.48 min Scan# 3206

Delta R.T. -0.00 min

Lab File: VU028509.D

Acq: 06 Dec 2018 18:31

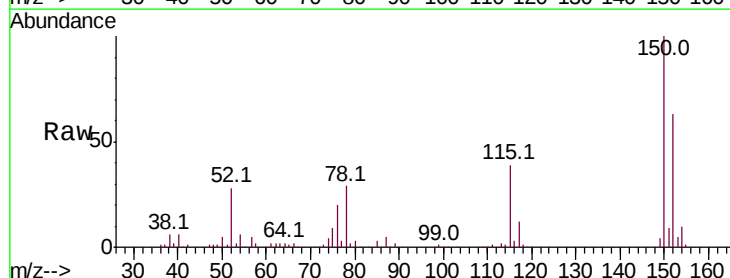
Tgt Ion:152 Resp: 83070

Ion Ratio Lower Upper

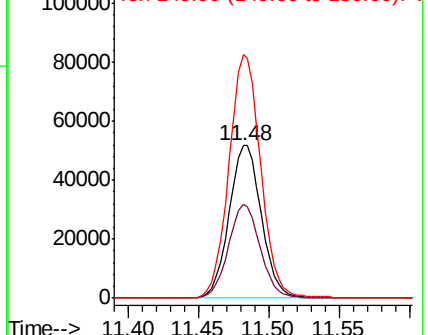
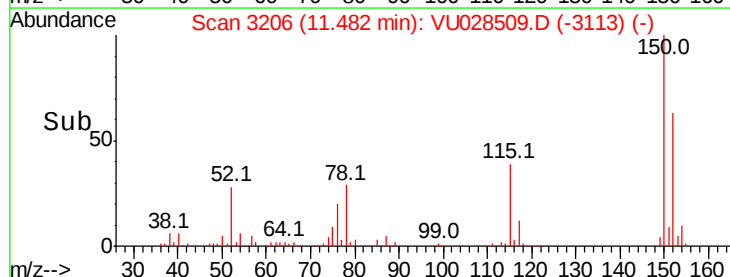
152 100

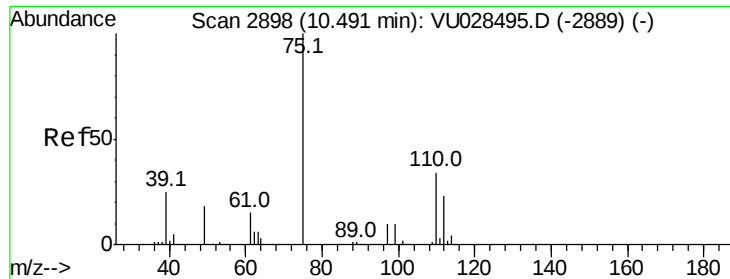
115 60.7 42.7 128.1

150 157.5 0.0 346.0



Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 22.249 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.19 min

Lab File: VU028509.D

Acq: 06 Dec 2018 18:31

Instrument :

MSVOA\_U

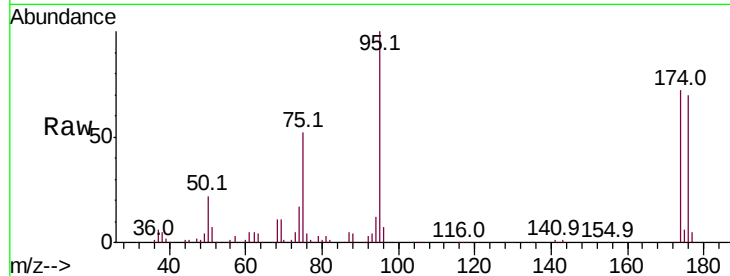
ClientSampleId :

Tot Ion: 75 Resp: 47195

Ion Ratio Lower Upper

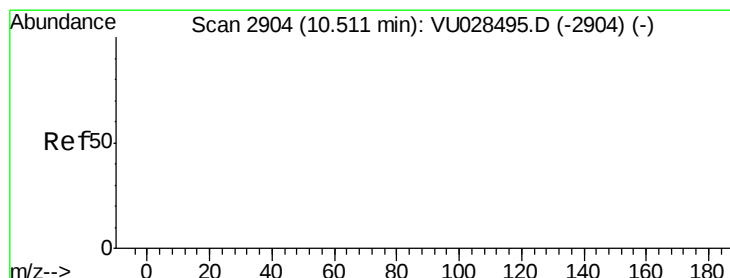
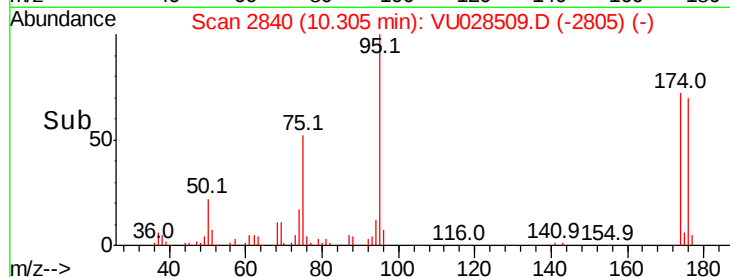
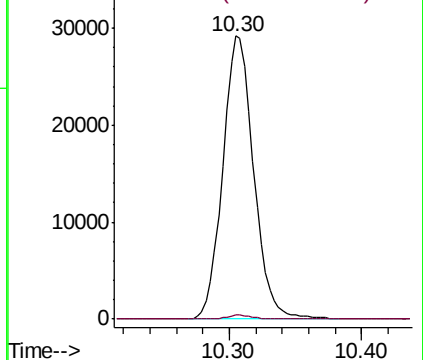
75 100

77 1.0 20.8 62.4#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0



#81

trans-1,4-Dichloro-2-butene

Concen: 54.654 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.21 min

Lab File: VU028509.D

Acq: 06 Dec 2018 18:31

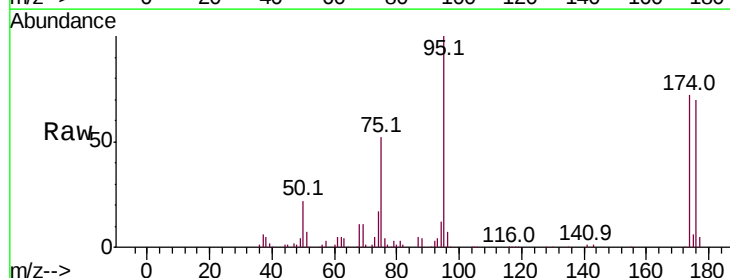
Tgt Ion: 75 Resp: 47195

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0

