

Data File : VU034854.D  
Acq On : 26 Sep 2019 20:02  
Operator : JC/SP  
Sample : K5044-02  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
CWK34

Quant Time: Sep 27 05:14:44 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR091819WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Fri Sep 27 05:10:18 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.86  | 114  | 94017    | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 90400    | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.46 | 152  | 42415    | 5.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.39   | 65    | 33938    | 4.54     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 90.80% |
| 7) Chloroethane-d5             | 1.67   | 69    | 29303    | 4.82     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 96.40% |
| 11) 1,1-Dichloroethene-d2      | 2.26   | 63    | 52760    | 4.00     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 80.00% |
| 20) 2-Butanone-d5              | 4.17   | 46    | 90856    | 49.41    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 98.82% |
| 24) Chloroform-d               | 4.62   | 84    | 51940    | 4.55     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 91.00% |
| 26) 1,2-Dichloroethane-d4      | 5.29   | 65    | 30089    | 4.63     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 92.60% |
| 32) Benzene-d6                 | 5.31   | 84    | 110762   | 4.60     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 92.00% |
| 36) 1,2-Dichloropropane-d6     | 6.31   | 67    | 37564    | 4.63     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 92.60% |
| 41) Toluene-d8                 | 7.54   | 98    | 103110   | 4.54     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 90.80% |
| 43) trans-1,3-Dichloropropene- | 7.83   | 79    | 12510    | 3.81     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 76.20% |
| 46) 2-Hexanone-d5              | 8.30   | 63    | 66664    | 45.61    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 91.22% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.41  | 84    | 27743    | 4.40     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 88.00% |
| 64) 1,2-Dichlorobenzene-d4     | 11.84  | 152   | 34669    | 4.74     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 94.80% |

#### Target Compounds

|                              |      |     |         |         |        | Qvalue |
|------------------------------|------|-----|---------|---------|--------|--------|
| 3) Chloromethane             | 1.32 | 50  | 2280    | 0.340   | ug/L   | 92     |
| 5) Vinyl chloride            | 1.40 | 62  | 4483    | 0.637   | ug/L # | 77     |
| 8) Chloroethane              | 1.69 | 64  | 387     | 0.094   | ug/L # | 42     |
| 12) 1,1-Dichloroethene       | 2.27 | 96  | 2966    | 0.640   | ug/L # | 1      |
| 13) Acetone                  | 2.31 | 43  | 1803    | 1.269   | ug/L   | 98     |
| 18) trans-1,2-Dichloroethene | 2.96 | 96  | 933     | 0.194   | ug/L   | 85     |
| 22) cis-1,2-Dichloroethene   | 4.20 | 96  | 176659  | 27.408  | ug/L   | 99     |
| 25) Chloroform               | 4.65 | 83  | 2390    | 0.182   | ug/L   | 96     |
| 33) Benzene                  | 5.36 | 78  | 3579    | 0.146   | ug/L   | 100    |
| 34) Trichloroethene          | 6.16 | 95  | 1264100 | 207.471 | ug/L   | 98     |
| 35) Methylcyclohexane        | 6.31 | 83  | 7835    | 0.796   | ug/L # | 16     |
| 37) 1,2-Dichloropropane      | 6.31 | 63  | 3891    | 0.516   | ug/L # | 92     |
| 42) Toluene                  | 7.61 | 91  | 60382   | 2.286   | ug/L   | 99     |
| 47) Tetrachloroethene        | 8.21 | 164 | 13844   | 3.748   | ug/L   | 95     |
| 48) 2-Hexanone               | 8.30 | 43  | 8699    | 2.276   | ug/L # | 68     |
| 49) Dibromochloromethane     | 8.21 | 129 | 12965   | 2.303   | ug/L # | 12     |
| 51) Chlorobenzene            | 9.10 | 112 | 10265   | 0.620   | ug/L   | 96     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU092719\  
Quantitation Report (Not Reviewed)

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Quant Title : TRACE VOA SOM01.0  
QLast Update : Fri Sep 27 05:10:18 2019  
Response via : Initial Calibration

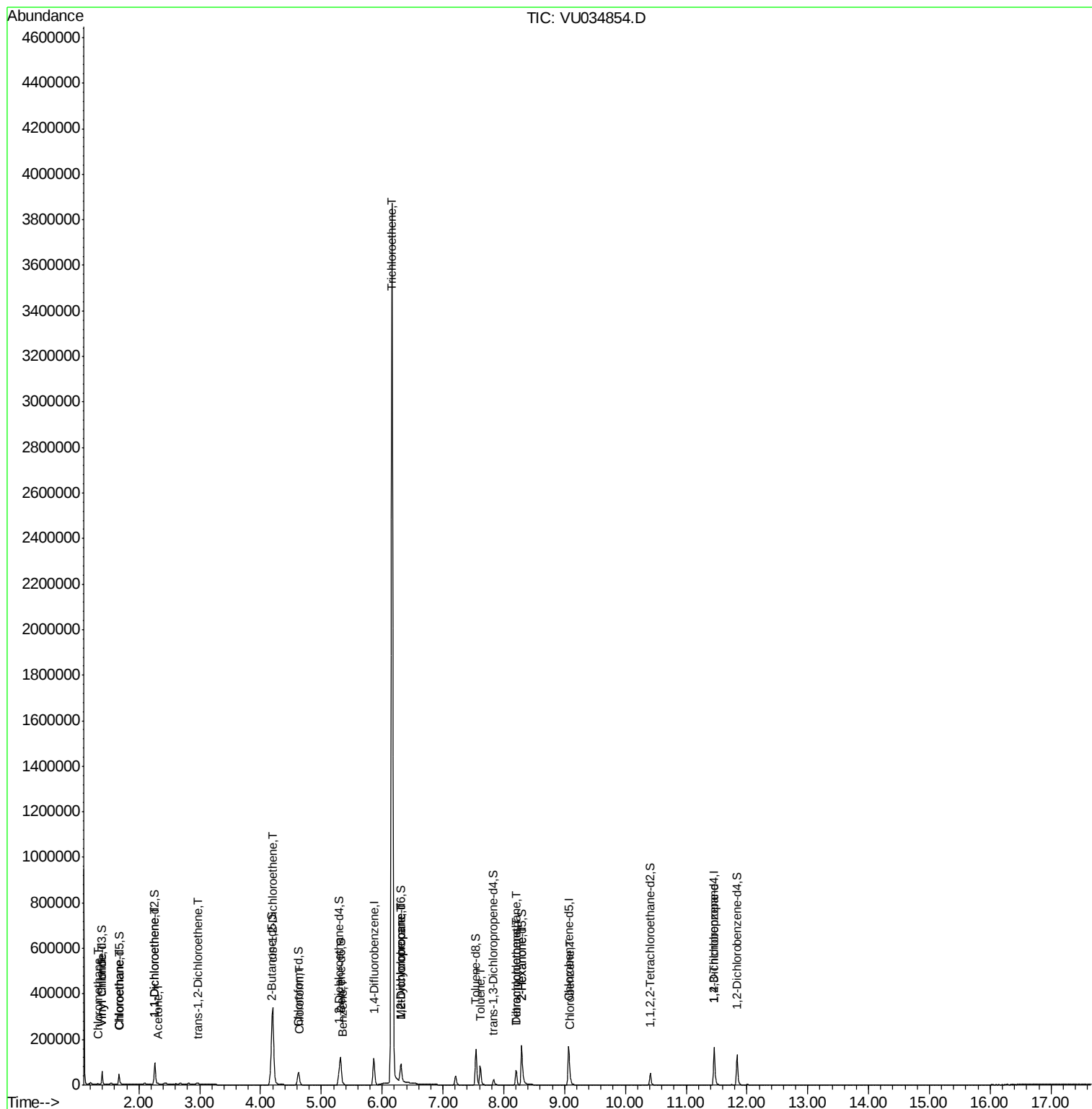
| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 59) 1,2,3-Trichloropropane | 11.46 | 75   | 7148     | 1.450 | ug/L  | 94       |

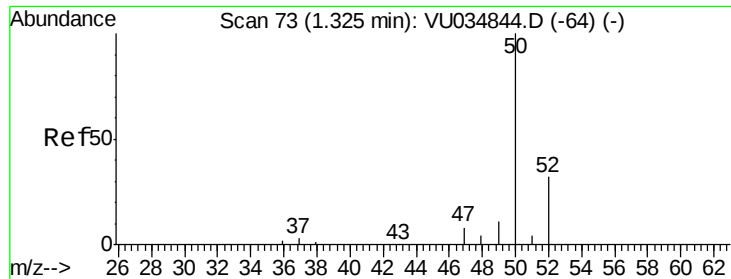
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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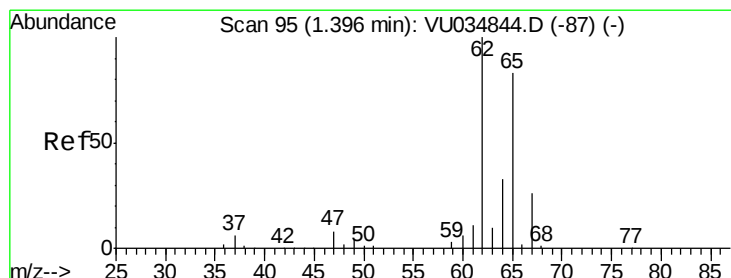
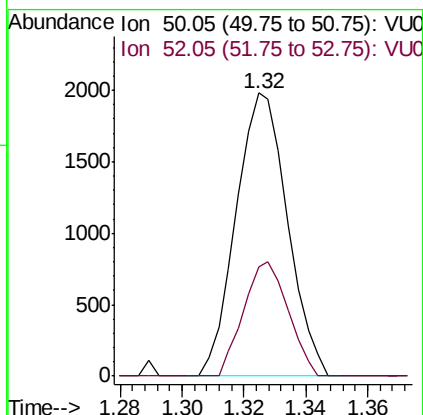
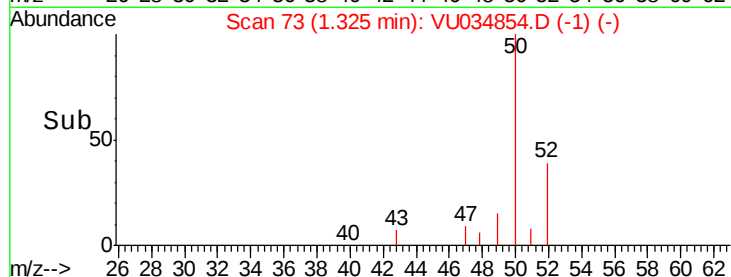
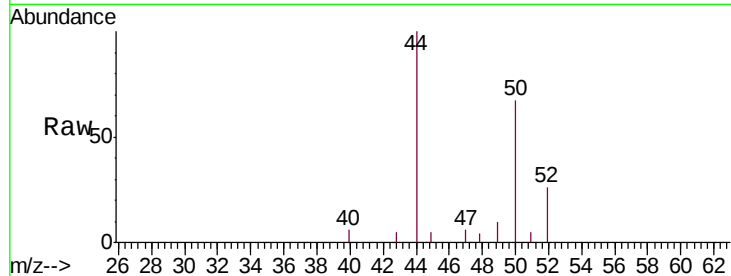




#3  
Chloromethane  
Concen: 0.340 ug/L  
RT: 1.32 min Scan# 73  
Delta R.T. -0.00 min  
Lab File: VU034854.D  
Acq: 26 Sep 2019 20:02

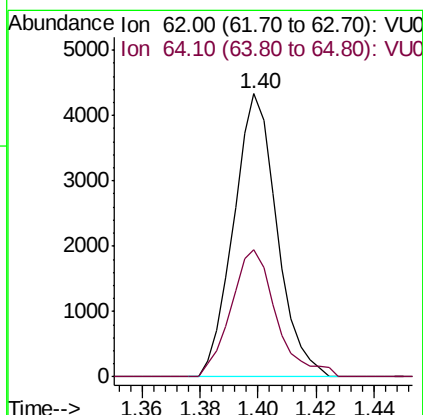
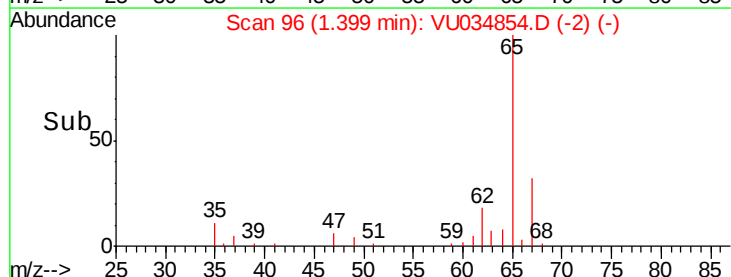
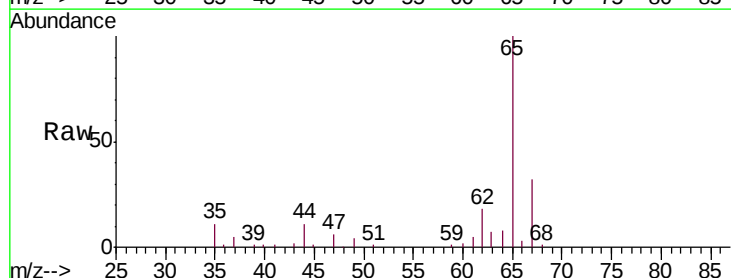
Instrument :  
MSVOA\_U  
ClientSampleId :  
CWK34

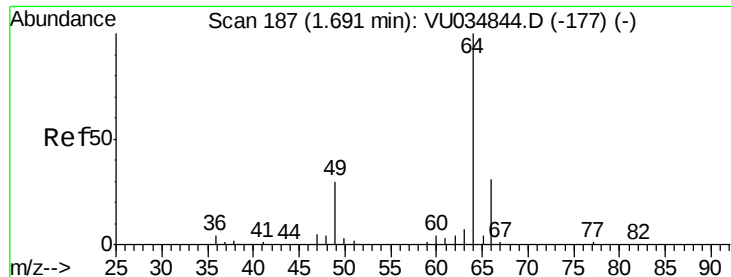
Tgt Ion: 50 Resp: 2280  
Ion Ratio Lower Upper  
50 100  
52 38.8 23.9 44.3



#5  
Vinyl chloride  
Concen: 0.637 ug/L  
RT: 1.40 min Scan# 96  
Delta R.T. 0.00 min  
Lab File: VU034854.D  
Acq: 26 Sep 2019 20:02

Tgt Ion: 62 Resp: 4483  
Ion Ratio Lower Upper  
62 100  
64 45.1 22.7 42.1#





#8

Chloroethane

Concen: 0.094 ug/L

RT: 1.69 min Scan# 186

Delta R.T. -0.00 min

Lab File: VU034854.D

Acq: 26 Sep 2019 20:02

Instrument :

MSVOA\_U

ClientSampleId :

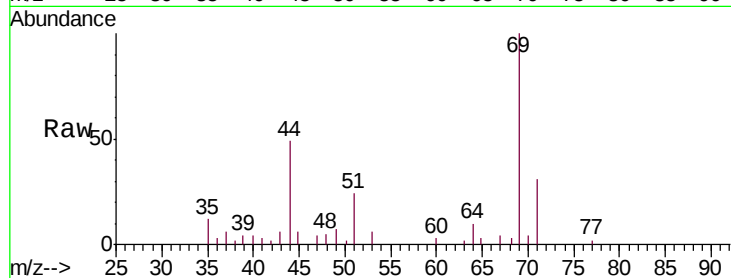
CWK34

Tgt Ion: 64 Resp: 387

Ion Ratio Lower Upper

64 100

66 0.0 22.6 42.0#



Abundance Ion 64.10 (63.80 to 64.80): VU034854.D (-177) (-)

Ion 66.05 (65.75 to 66.75): VU034854.D (-177) (-)

1.69

600

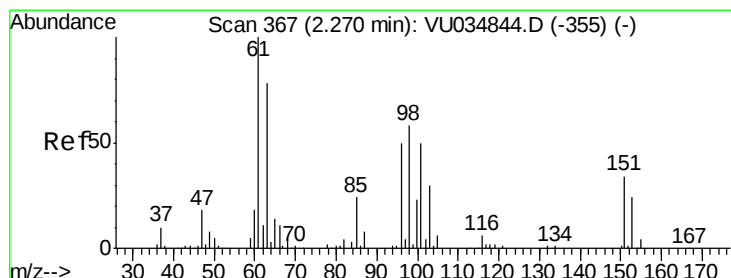
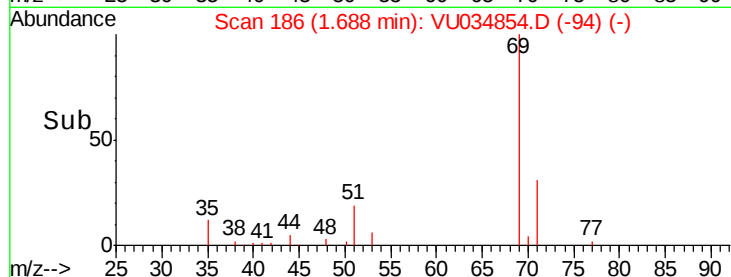
400

200

0

1.68 1.70

Time-->



#12

1,1-Dichloroethene

Concen: 0.640 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU034854.D

Acq: 26 Sep 2019 20:02

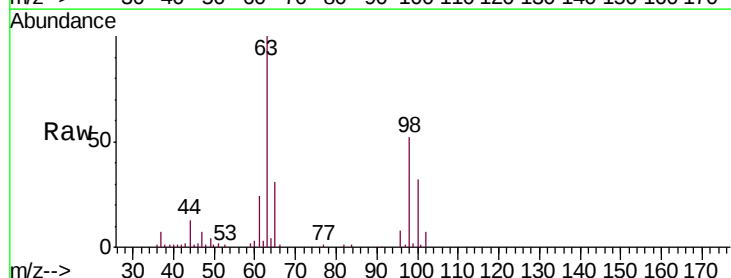
Tgt Ion: 96 Resp: 2966

Ion Ratio Lower Upper

96 100

61 285.2 144.4 268.2#

63 1193.4 111.5 207.1#



Abundance Ion 96.00 (95.70 to 96.70): VU034854.D (-355) (-)

Ion 61.05 (60.75 to 61.75): VU034854.D (-355) (-)

Ion 63.00 (62.70 to 63.70): VU034854.D (-355) (-)

40000

30000

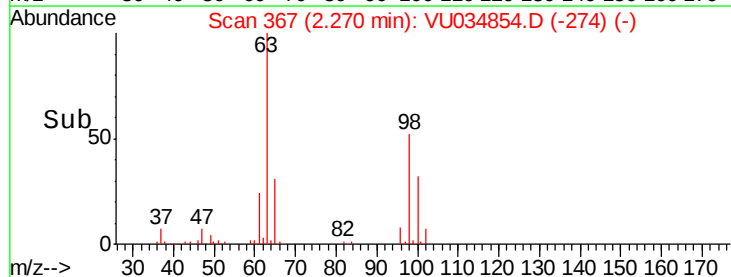
20000

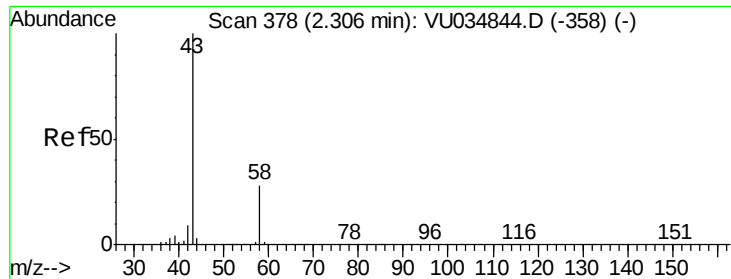
10000

0

2.25 2.30

Time-->





#13

Acetone

Concen: 1.269 ug/L

RT: 2.31 min Scan# 379

Delta R.T. 0.00 min

Lab File: VU034854.D

Acq: 26 Sep 2019 20:02

Instrument :

MSVOA\_U

ClientSampled :

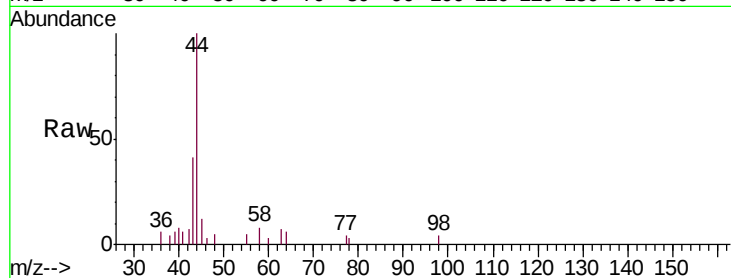
CWK34

Tgt Ion: 43 Resp: 1803

Ion Ratio Lower Upper

43 100

58 28.0 0.0 57.8



Abundance Ion 43.05 (42.75 to 43.75): VU034854.D (-358) (-)

Ion 58.05 (57.75 to 58.75): VU034854.D (-358) (-)

2.31

1500

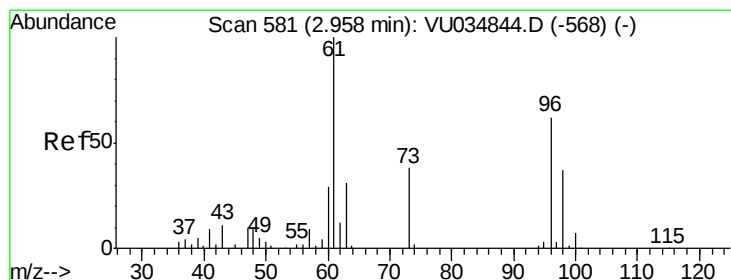
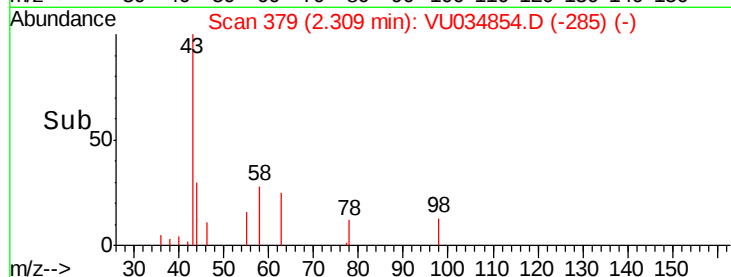
1000

500

0

2.25 2.30 2.35

Time-->



#18

trans-1,2-Dichloroethene

Concen: 0.194 ug/L

RT: 2.96 min Scan# 582

Delta R.T. 0.00 min

Lab File: VU034854.D

Acq: 26 Sep 2019 20:02

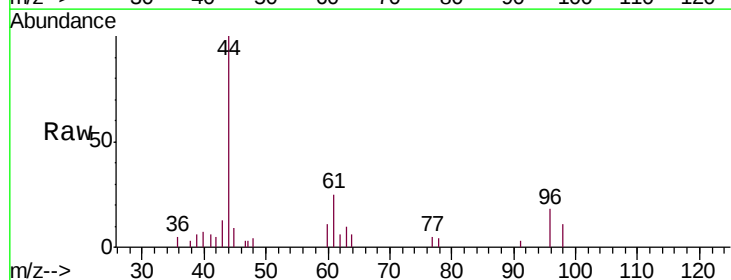
Tgt Ion: 96 Resp: 933

Ion Ratio Lower Upper

96 100

61 142.6 118.2 219.6

98 61.0 44.8 83.2



Abundance Ion 96.00 (95.70 to 96.70): VU034854.D (-568) (-)

Ion 61.05 (60.75 to 61.75): VU034854.D (-568) (-)

Ion 97.95 (97.65 to 98.65): VU034854.D (-568) (-)

1200

1000

800

600

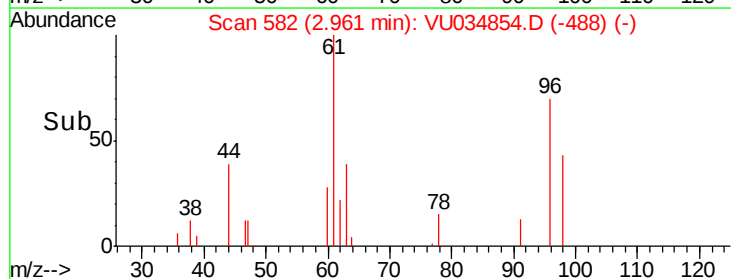
400

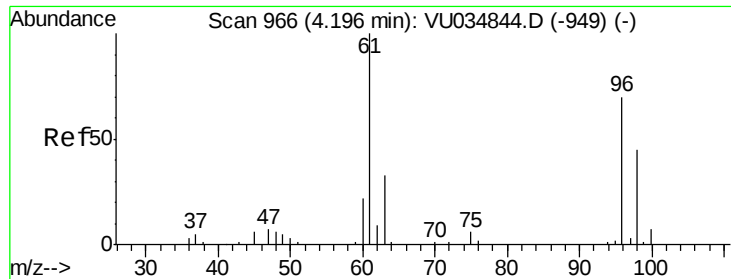
200

0

2.92 2.94 2.96 2.98 3.00

Time-->



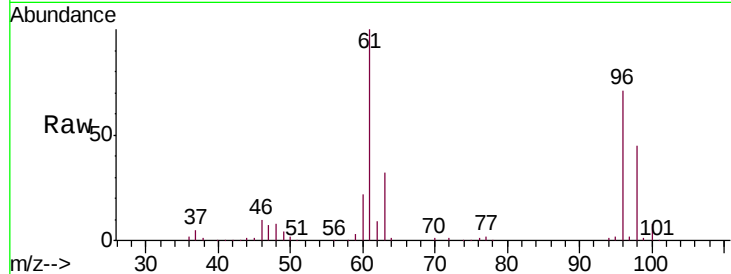


#22

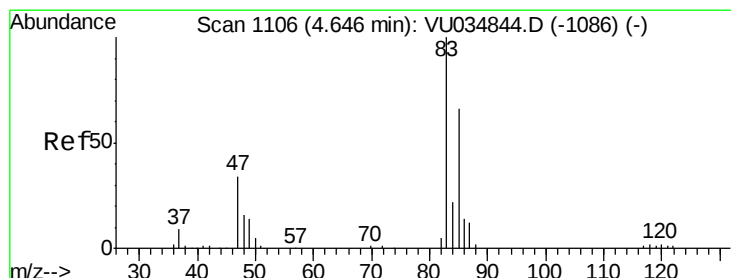
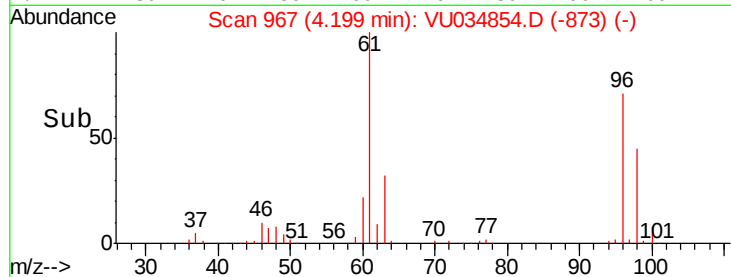
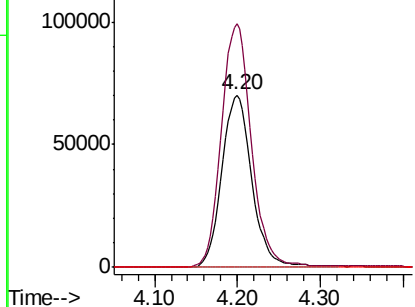
cis-1,2-Dichloroethene  
 Concen: 27.408 ug/L  
 RT: 4.20 min Scan# 967  
 Delta R.T. 0.00 min  
 Lab File: VU034854.D  
 Acq: 26 Sep 2019 20:02

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 CWK34

Tgt Ion: 96 Resp: 176659  
 Ion Ratio Lower Upper  
 96 100  
 61 141.5 100.0 185.8  
 68 0.0 0.0 0.0



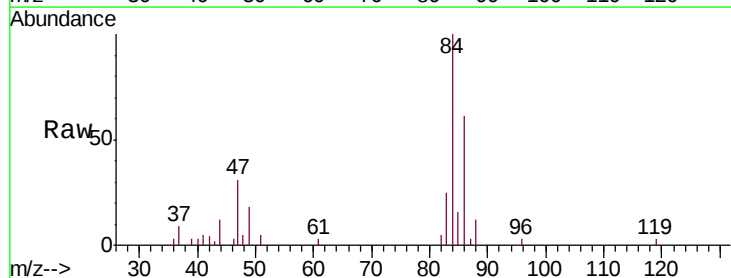
Abundance Ion 96.00 (95.70 to 96.70): VU0  
 Ion 61.05 (60.75 to 61.75): VU0  
 Ion 68.15 (67.85 to 68.85): VU0



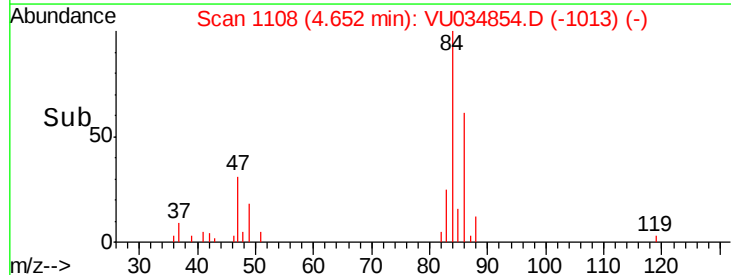
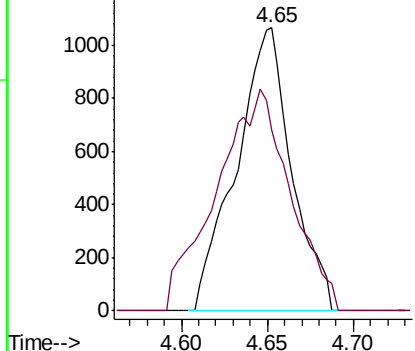
#25

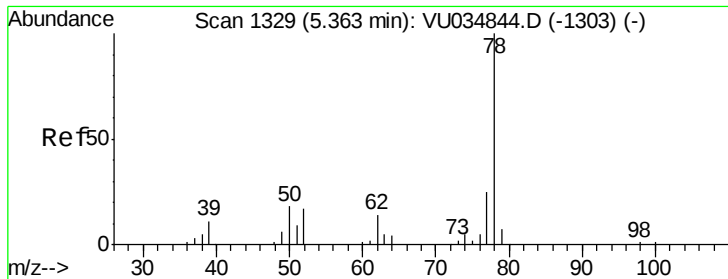
Chloroform  
 Concen: 0.182 ug/L  
 RT: 4.65 min Scan# 1108  
 Delta R.T. 0.01 min  
 Lab File: VU034854.D  
 Acq: 26 Sep 2019 20:02

Tgt Ion: 83 Resp: 2390  
 Ion Ratio Lower Upper  
 83 100  
 85 64.1 42.8 79.4



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





#33

Benzene

Concen: 0.146 ug/L

RT: 5.36 min Scan# 1328

Delta R.T. -0.00 min

Lab File: VU034854.D

Acq: 26 Sep 2019 20:02

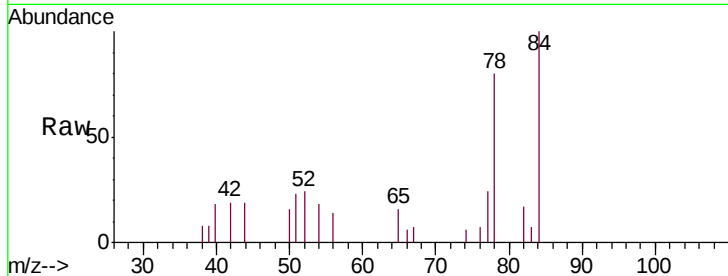
Instrument :

MSVOA\_U

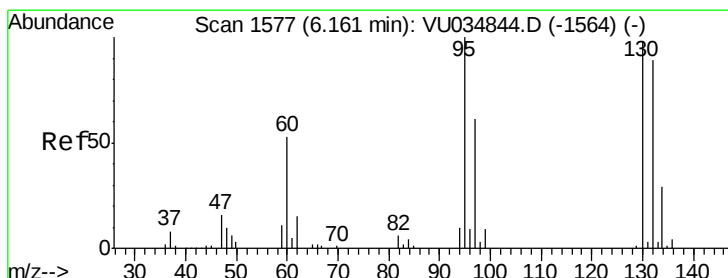
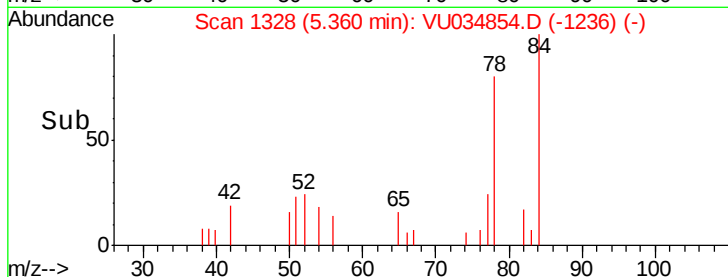
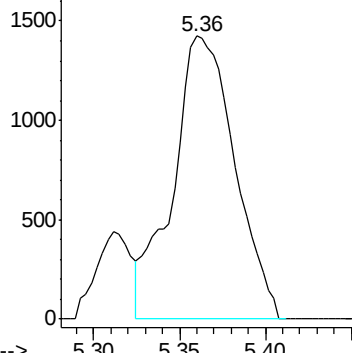
ClientSampleId :

CWK34

Tgt Ion: 78 Resp: 3579



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34

Trichloroethene

Concen: 207.471 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. 0.00 min

Lab File: VU034854.D

Acq: 26 Sep 2019 20:02

Tgt Ion: 95 Resp: 1264100

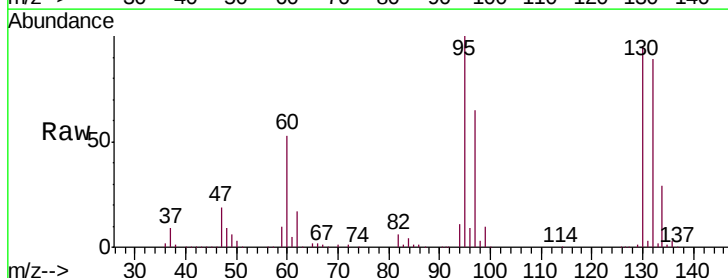
Ion Ratio Lower Upper

95 100

97 64.6 45.2 84.0

132 89.5 60.9 113.1

130 95.5 64.3 119.3

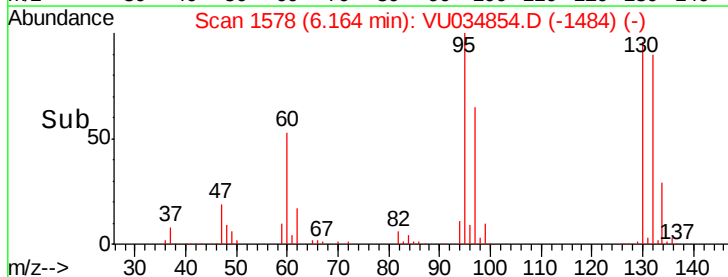
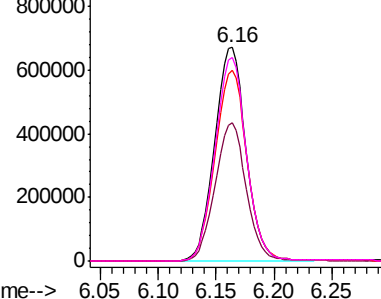


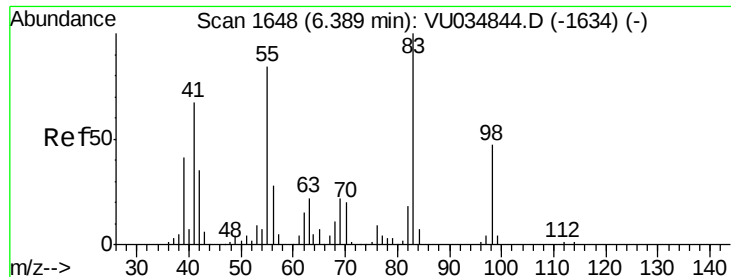
Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 0.796 ug/L

RT: 6.31 min Scan# 1624

Delta R.T. -0.08 min

Lab File: VU034854.D

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Instrument :

MSVOA\_U

ClientSampleId :

CWK34

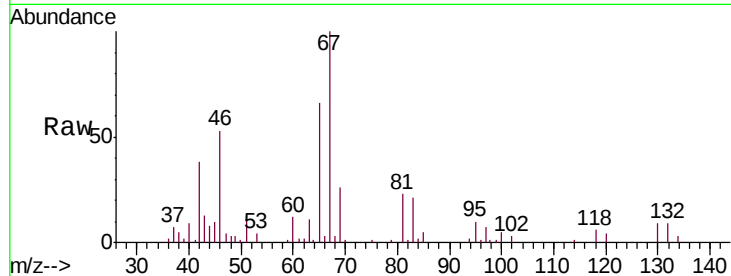
Tgt Ion: 83 Resp: 7835

Ion Ratio Lower Upper

83 100

55 0.3 66.8 100.2#

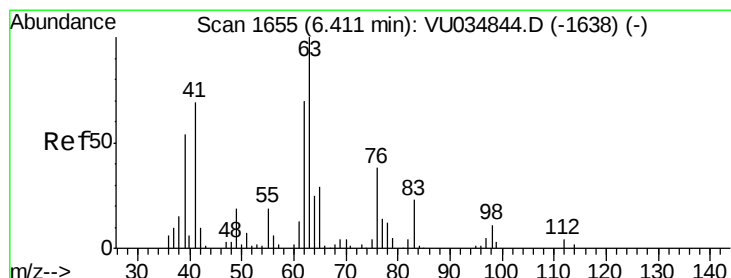
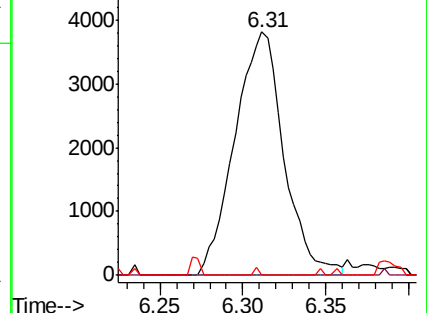
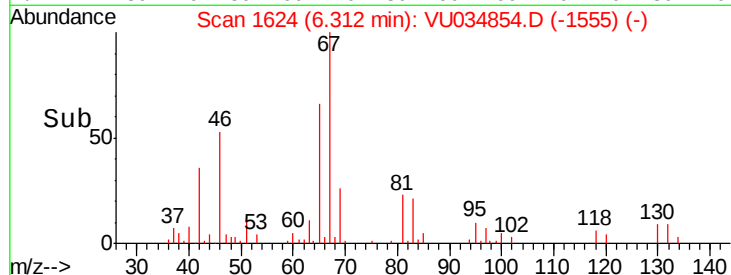
98 0.0 35.4 53.0#



Abundance Ion 83.15 (82.85 to 83.85): VU034854.D (-1634) (-)

Ion 55.10 (54.80 to 55.80): VU034854.D (-1634) (-)

Ion 98.15 (97.85 to 98.85): VU034854.D (-1634) (-)



#37

1,2-Dichloropropane

Concen: 0.516 ug/L

RT: 6.31 min Scan# 1623

Delta R.T. -0.10 min

Lab File: VU034854.D

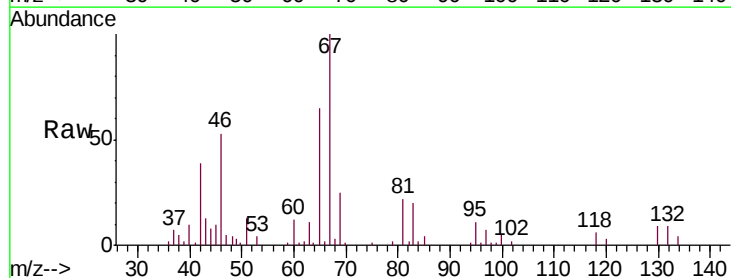
Acq: 26 Sep 2019 20:02

Tgt Ion: 63 Resp: 3891

Ion Ratio Lower Upper

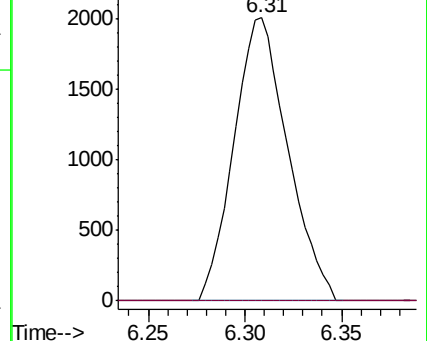
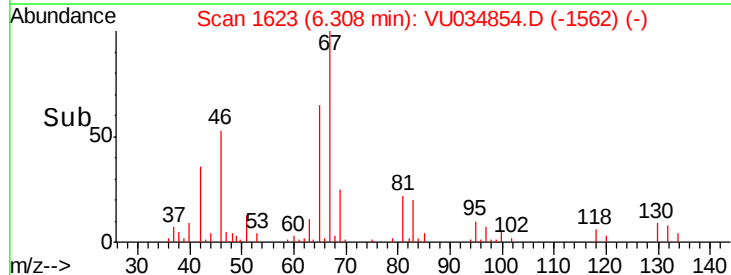
63 100

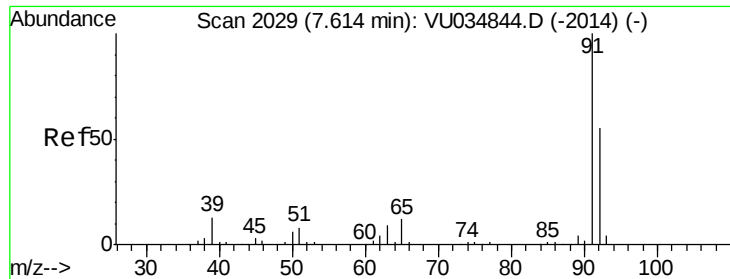
112 0.0 2.2 3.2#



Abundance Ion 63.10 (62.80 to 63.80): VU034854.D (-1638) (-)

Ion 112.10 (111.80 to 112.80): VU034854.D (-1638) (-)





#42

Toluene

Concen: 2.286 ug/L

RT: 7.61 min Scan# 2029

Delta R.T. -0.00 min

Lab File: VU034854.D

Acq: 26 Sep 2019 20:02

Instrument :

MSVOA\_U

ClientSampleId :

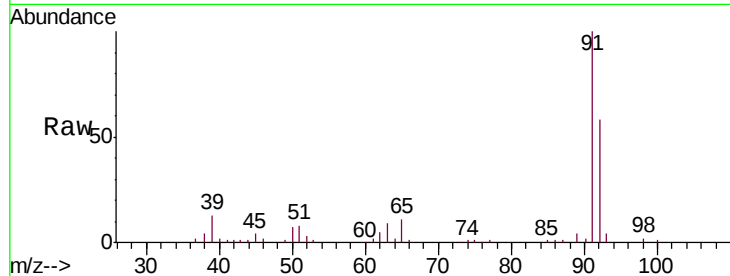
CWK34

Tgt Ion: 91 Resp: 60382

Ion Ratio Lower Upper

91 100

92 57.5 39.6 73.6



Abundance Ion 91.15 (90.85 to 91.85): VU034854.D (-2014) (-)

Ion 92.15 (91.85 to 92.85): VU034854.D (-2014) (-)

7.61

30000

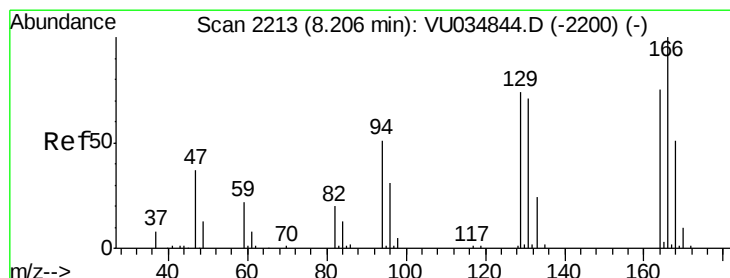
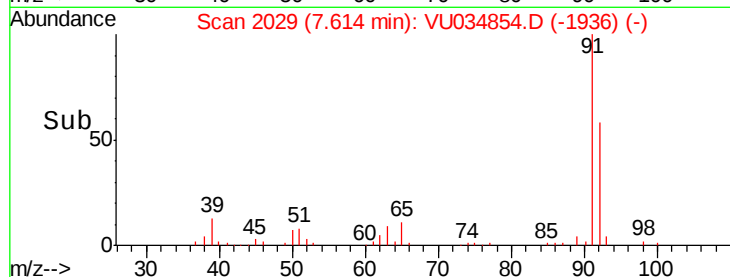
20000

10000

0

7.55 7.60 7.65 7.70

Time-->



#47

Tetrachloroethene

Concen: 3.748 ug/L

RT: 8.21 min Scan# 2213

Delta R.T. -0.00 min

Lab File: VU034854.D

Acq: 26 Sep 2019 20:02

Tgt Ion: 164 Resp: 13844

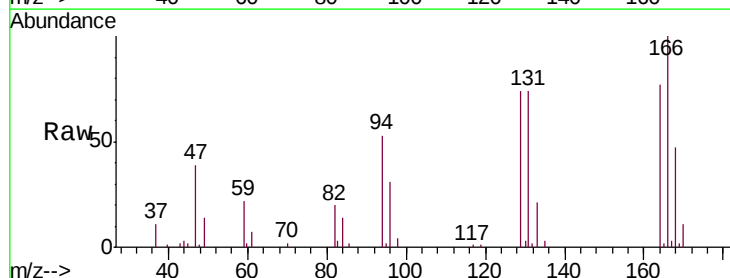
Ion Ratio Lower Upper

164 100

129 96.4 73.6 136.8

131 96.8 73.4 136.4

166 130.6 90.6 168.3



Abundance Ion 163.90 (163.60 to 164.60): VU034854.D (-2200) (-)

Ion 128.95 (128.65 to 129.65): VU034854.D (-2200) (-)

Ion 130.95 (130.65 to 131.65): VU034854.D (-2200) (-)

Ion 165.90 (165.60 to 166.60): VU034854.D (-2200) (-)

15000

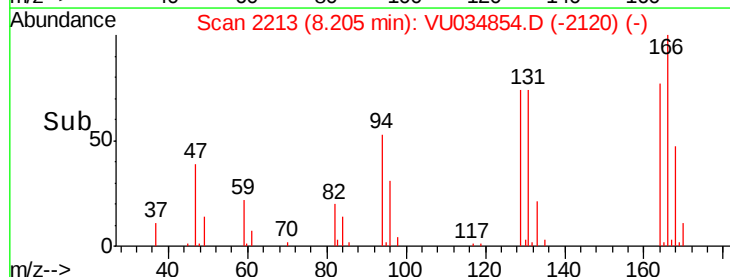
10000

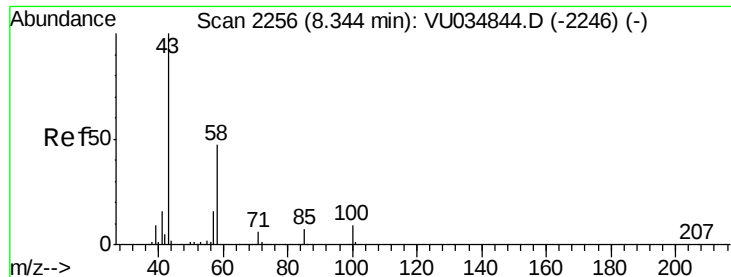
5000

0

8.15 8.20 8.25

Time-->

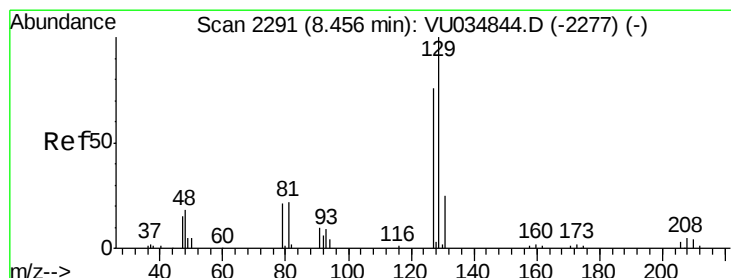
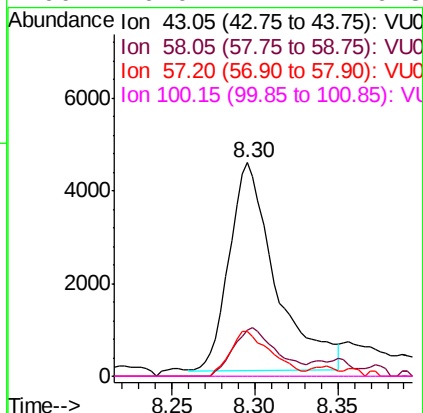
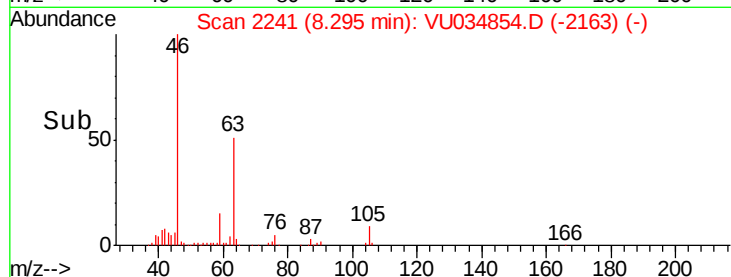
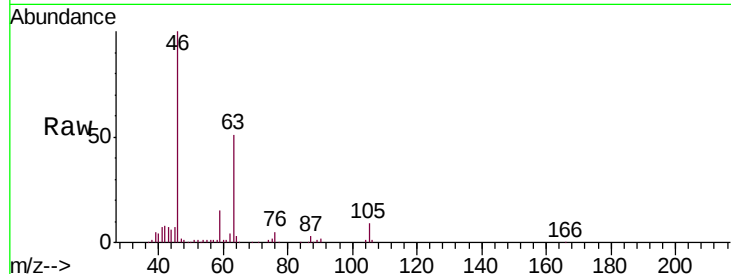




#48  
2-Hexanone  
Concen: 2.276 ug/L  
RT: 8.30 min Scan# 2241  
Delta R.T. -0.05 min  
Lab File: VU034854.D  
Acq: 26 Sep 2019 20:02

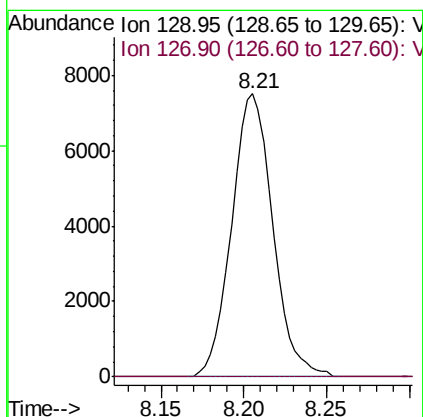
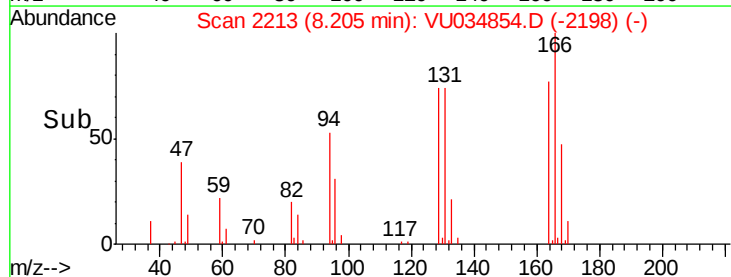
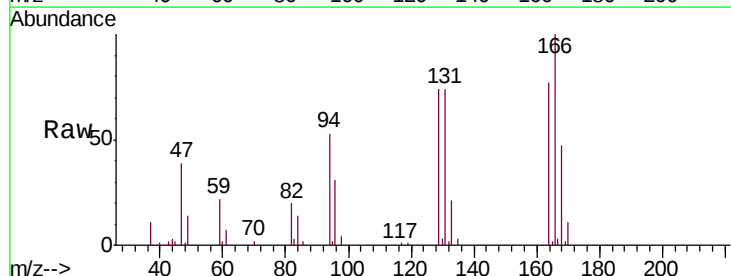
Instrument :  
MSVOA\_U  
ClientSampleId :  
CWK34

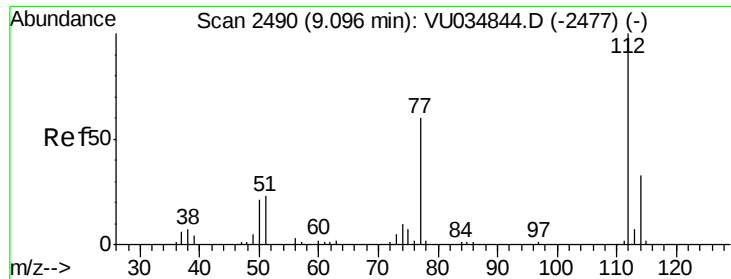
Tgt Ion: 43 Resp: 8699  
Ion Ratio Lower Upper  
43 100  
58 22.2 41.2 61.8#  
57 19.2 13.3 19.9  
100 0.0 7.2 10.8#



#49  
Dibromochloromethane  
Concen: 2.303 ug/L  
RT: 8.21 min Scan# 2213  
Delta R.T. -0.25 min  
Lab File: VU034854.D  
Acq: 26 Sep 2019 20:02

Tgt Ion: 129 Resp: 12965  
Ion Ratio Lower Upper  
129 100  
127 0.0 53.0 98.4#

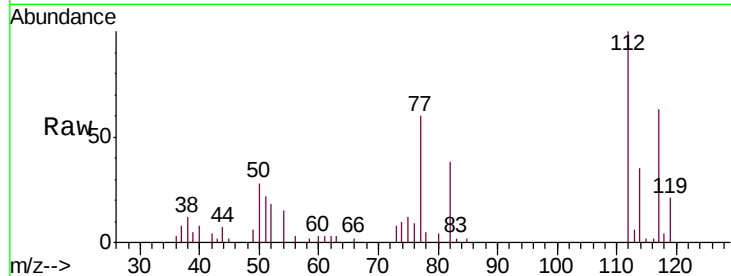




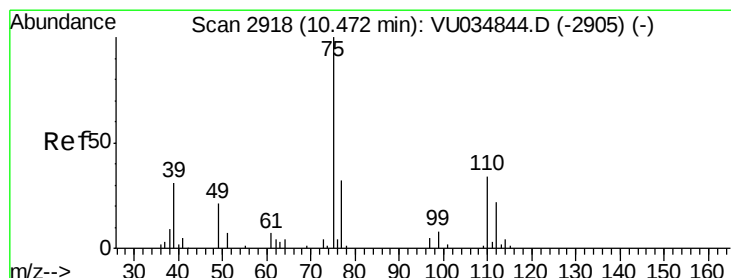
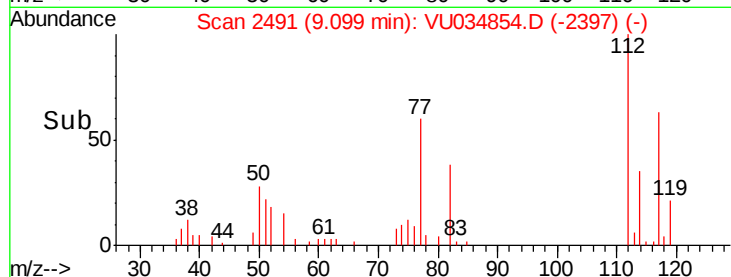
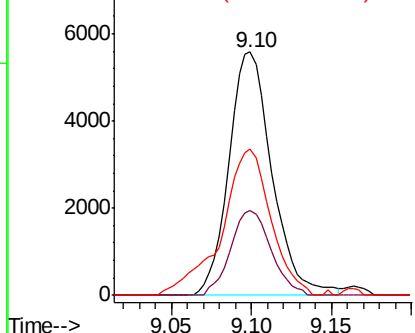
#51  
Chlorobenzene  
Concen: 0.620 ug/L  
RT: 9.10 min Scan# 2491  
Delta R.T. 0.00 min  
Lab File: VU034854.D  
Acq: 26 Sep 2019 20:02

Instrument :  
MSVOA\_U  
ClientSampleId :  
CWK34

Tgt Ion: 112 Resp: 10265  
Ion Ratio Lower Upper  
112 100  
114 34.8 22.5 41.7  
77 59.9 50.3 75.5

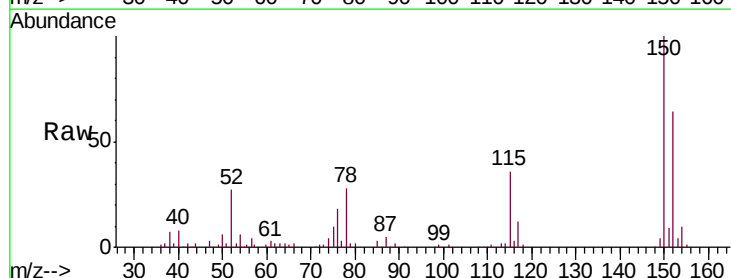


Abundance Ion 112.10 (111.80 to 112.80): V  
Ion 114.05 (113.75 to 114.75): V  
Ion 77.10 (76.80 to 77.80): V



#59  
1,2,3-Trichloropropane  
Concen: 1.450 ug/L  
RT: 11.46 min Scan# 3226  
Delta R.T. 0.99 min  
Lab File: VU034854.D  
Acq: 26 Sep 2019 20:02

Tgt Ion: 75 Resp: 7148  
Ion Ratio Lower Upper  
75 100  
77 29.4 26.0 39.0



Abundance Ion 75.00 (74.70 to 75.70): VU0  
Ion 77.00 (76.70 to 77.70): VU0

