

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU033020\  
 Data File : VU037490.D  
 Acq On : 31 Mar 2020 04:51  
 Operator : JC/MD  
 Sample : VSTDCCC005EC  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Mar 31 06:48:18 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR032820WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Mar 31 04:01:00 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.28  | 114  | 100098   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.44  | 117  | 95555    | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.83 | 152  | 47302    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61   | 65    | 27803    | 3.76     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 75.20%  |
| 7) Chloroethane-d5             | 1.93   | 69    | 23391    | 4.23     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 84.60%  |
| 11) 1,1-Dichloroethene-d2      | 2.59   | 63    | 56149    | 3.89     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 77.80%  |
| 20) 2-Butanone-d5              | 4.67   | 46    | 104954   | 52.11    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 104.22% |
| 24) Chloroform-d               | 5.11   | 84    | 60838    | 4.16     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 83.20%  |
| 26) 1,2-Dichloroethane-d4      | 5.74   | 65    | 33252    | 4.14     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 82.80%  |
| 32) Benzene-d6                 | 5.76   | 84    | 111306   | 4.03     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 80.60%  |
| 36) 1,2-Dichloropropane-d6     | 6.72   | 67    | 38898    | 4.26     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 85.20%  |
| 41) Toluene-d8                 | 7.92   | 98    | 97849    | 3.74     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 74.80%  |
| 43) trans-1,3-Dichloropropene- | 8.20   | 79    | 16422    | 3.82     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 76.40%  |
| 46) 2-Hexanone-d5              | 8.66   | 63    | 84965    | 49.74    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 99.48%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.77  | 84    | 34493    | 4.50     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 90.00%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.21  | 152   | 36728    | 3.94     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 78.80%# |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc   | Units | Ovalue |
|--------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane     | 1.39 | 85   | 35522    | 4.229  | ug/L  | 97     |
| 3) Chloromethane               | 1.53 | 50   | 35370    | 4.751  | ug/L  | 95     |
| 5) Vinyl chloride              | 1.62 | 62   | 38949    | 4.970  | ug/L  | 98     |
| 6) Bromomethane                | 1.87 | 94   | 17841    | 4.040  | ug/L  | 93     |
| 8) Chloroethane                | 1.95 | 64   | 21014    | 4.808  | ug/L  | 93     |
| 9) Trichlorofluoromethane      | 2.16 | 101  | 53175    | 5.069  | ug/L  | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.61 | 101  | 31242    | 4.888  | ug/L  | 96     |
| 12) 1,1-Dichloroethene         | 2.60 | 96   | 31223    | 4.743  | ug/L  | 92     |
| 13) Acetone                    | 2.67 | 43   | 54280    | 46.906 | ug/L  | 99     |
| 14) Carbon disulfide           | 2.82 | 76   | 103016   | 4.574  | ug/L  | 99     |
| 15) Methyl Acetate             | 2.99 | 43   | 15971    | 4.940  | ug/L  | 94     |
| 16) Methylene chloride         | 3.08 | 84   | 34533    | 4.694  | ug/L  | 97     |
| 17) Methyl tert-butyl Ether    | 3.40 | 73   | 87082    | 4.861  | ug/L  | 98     |
| 18) trans-1,2-Dichloroethene   | 3.39 | 96   | 33647    | 4.887  | ug/L  | 97     |
| 19) 1,1-Dichloroethane         | 3.91 | 63   | 61150    | 4.753  | ug/L  | 98     |
| 21) 2-Butanone                 | 4.75 | 43   | 102890   | 52.301 | ug/L  | 97     |
| 22) cis-1,2-Dichloroethene     | 4.71 | 96   | 35992    | 4.666  | ug/L  | 98     |

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 Quant Title : TRACE VOA SOM01.0  
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 Response via : Initial Calibration

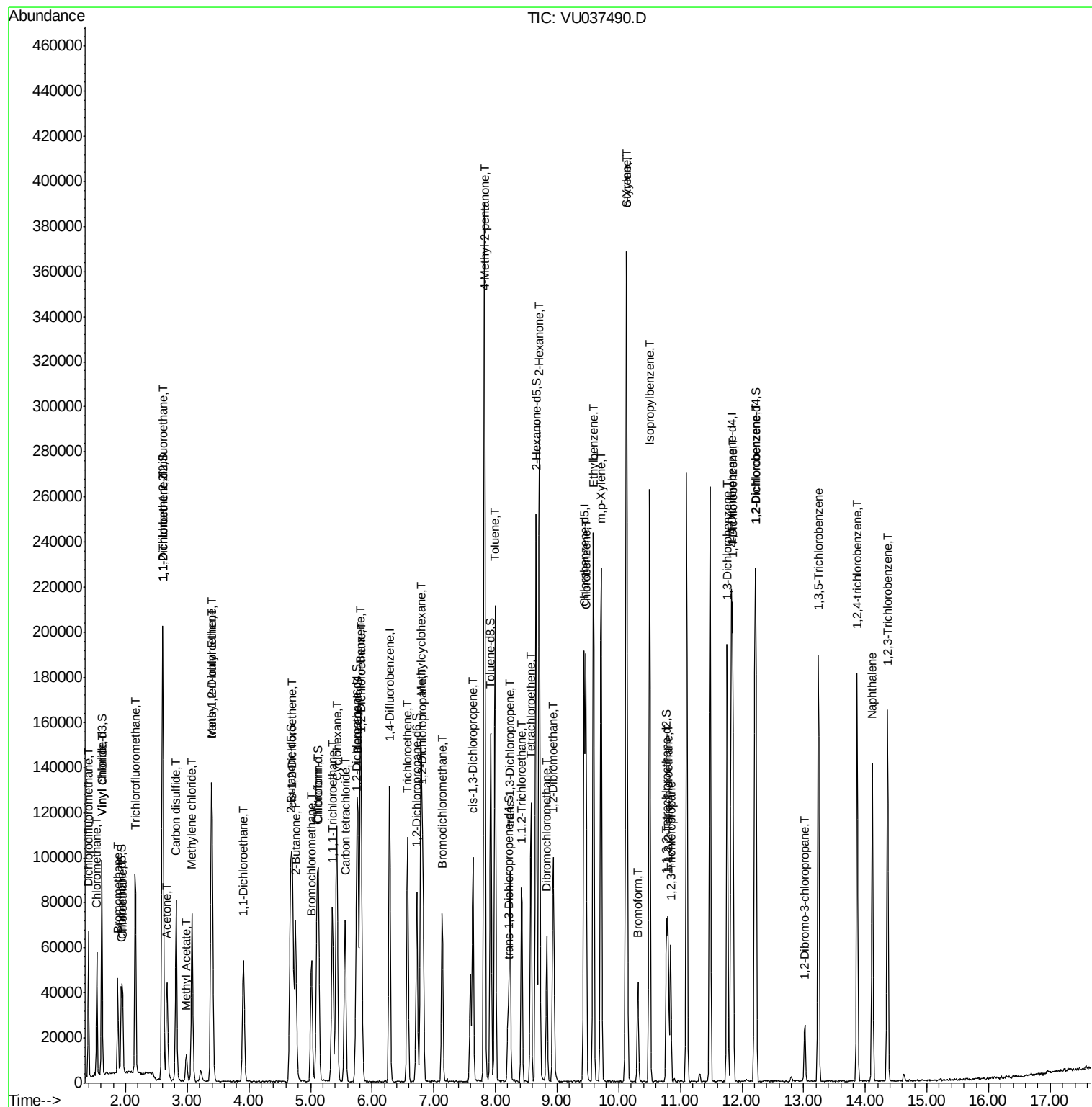
| Internal Standards              | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|--------|--------|----------|
| 23) Bromochloromethane          | 5.02  | 128  | 15596    | 4.576  | ug/L   | 96       |
| 25) Chloroform                  | 5.13  | 83   | 62112    | 4.589  | ug/L   | 100      |
| 27) 1,2-Dichloroethane          | 5.83  | 62   | 41049    | 4.540  | ug/L   | 100      |
| 29) 1,1,1-Trichloroethane       | 5.36  | 97   | 55528    | 4.623  | ug/L   | 100      |
| 30) Cyclohexane                 | 5.43  | 56   | 59994    | 4.875  | ug/L   | 97       |
| 31) Carbon tetrachloride        | 5.56  | 117  | 45614    | 4.399  | ug/L   | 100      |
| 33) Benzene                     | 5.81  | 78   | 138539   | 4.896  | ug/L   | 100      |
| 34) Trichloroethene             | 6.57  | 95   | 36158    | 4.486  | ug/L   | 94       |
| 35) Methylcyclohexane           | 6.79  | 83   | 59831    | 4.691  | ug/L   | 99       |
| 37) 1,2-Dichloropropane         | 6.82  | 63   | 36879    | 5.041  | ug/L   | 98       |
| 38) Bromodichloromethane        | 7.13  | 83   | 47051    | 4.703  | ug/L   | 96       |
| 39) cis-1,3-Dichloropropene     | 7.64  | 75   | 55496    | 4.652  | ug/L   | 95       |
| 40) 4-Methyl-2-pentanone        | 7.82  | 43   | 253502   | 52.051 | ug/L   | 98       |
| 42) Toluene                     | 8.00  | 91   | 146176   | 4.793  | ug/L   | 100      |
| 44) trans-1,3-Dichloropropene   | 8.23  | 75   | 47883    | 4.490  | ug/L   | 97       |
| 45) 1,1,2-Trichloroethane       | 8.43  | 97   | 25872    | 4.729  | ug/L   | 94       |
| 47) Tetrachloroethene           | 8.57  | 164  | 23807    | 4.288  | ug/L   | 92       |
| 48) 2-Hexanone                  | 8.71  | 43   | 184124   | 52.450 | ug/L   | 98       |
| 49) Dibromochloromethane        | 8.83  | 129  | 31008    | 4.592  | ug/L   | 99       |
| 50) 1,2-Dibromoethane           | 8.95  | 107  | 25756    | 4.850  | ug/L # | 99       |
| 51) Chlorobenzene               | 9.47  | 112  | 88910    | 4.220  | ug/L   | 99       |
| 52) Ethylbenzene                | 9.59  | 91   | 166883   | 4.768  | ug/L   | 100      |
| 53) m,p-Xylene                  | 9.71  | 106  | 61053    | 4.617  | ug/L   | 95       |
| 54) o-Xylene                    | 10.12 | 106  | 60413    | 4.681  | ug/L   | 97       |
| 55) Styrene                     | 10.13 | 104  | 104336   | 4.731  | ug/L   | 95       |
| 56) Isopropylbenzene            | 10.50 | 105  | 161941   | 4.710  | ug/L   | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.80 | 83   | 33419    | 4.785  | ug/L   | 94       |
| 59) 1,2,3-Trichloropropane      | 10.84 | 75   | 23930    | 4.703  | ug/L   | 98       |
| 61) Bromoform                   | 10.31 | 173  | 18154    | 4.618  | ug/L # | 95       |
| 62) 1,3-Dichlorobenzene         | 11.76 | 146  | 72696    | 4.779  | ug/L   | 95       |
| 63) 1,4-Dichlorobenzene         | 11.85 | 146  | 70197    | 4.322  | ug/L   | 98       |
| 65) 1,2-Dichlorobenzene         | 12.23 | 146  | 66931    | 4.558  | ug/L   | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 13.02 | 75   | 6860     | 5.310  | ug/L   | 90       |
| 67) 1,3,5-Trichlorobenzene      | 13.24 | 180  | 51748    | 4.387  | ug/L   | 98       |
| 68) 1,2,4-trichlorobenzene      | 13.87 | 180  | 48442    | 4.260  | ug/L   | 99       |
| 69) Naphthalene                 | 14.11 | 128  | 107409   | 4.866  | ug/L   | 99       |
| 70) 1,2,3-Trichlorobenzene      | 14.36 | 180  | 43684    | 4.272  | ug/L   | 99       |

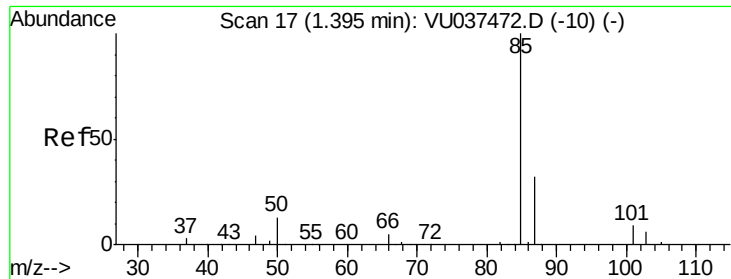
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : TRACE VOA SOM01.0  
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Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 4.229 ug/L

RT: 1.39 min Scan# 17

Delta R.T. -0.00 min

Lab File: VU037490.D

Acq: 31 Mar 2020 04:51

Instrument :

MSVOA\_U

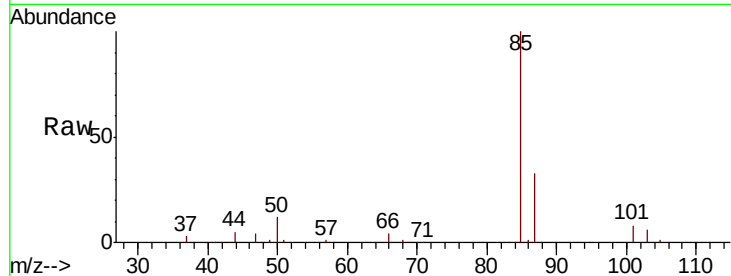
ClientSampleId :

Tot Ion: 85 Resp: 35522

Ion Ratio Lower Upper

85 100

87 32.6 24.9 37.3



Abundance Ion 85.00 (84.70 to 85.70): VU037472.D (-10) (-)

Ion 87.00 (86.70 to 87.70): VU037472.D (-10) (-)

1.39

40000

30000

20000

10000

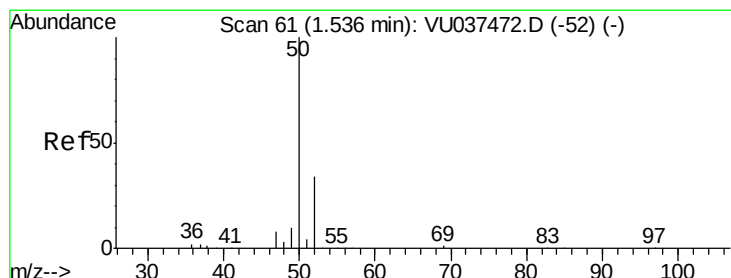
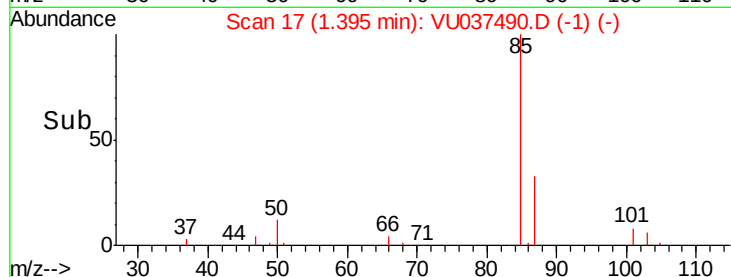
0

Time-->

1.35

1.40

1.45



#3

Chloromethane

Concen: 4.751 ug/L

RT: 1.53 min Scan# 60

Delta R.T. -0.00 min

Lab File: VU037490.D

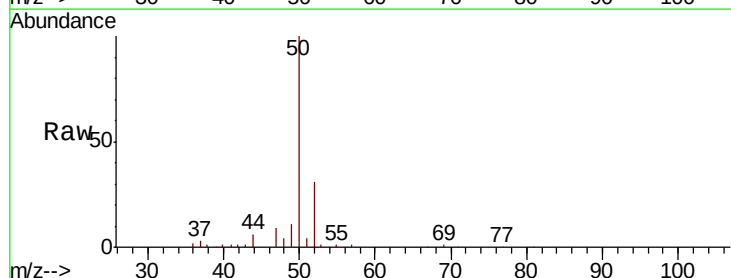
Acq: 31 Mar 2020 04:51

Tgt Ion: 50 Resp: 35370

Ion Ratio Lower Upper

50 100

52 31.0 23.6 43.8



Abundance Ion 50.05 (49.75 to 50.75): VU037472.D (-52) (-)

Ion 52.05 (51.75 to 52.75): VU037472.D (-52) (-)

1.53

30000

20000

10000

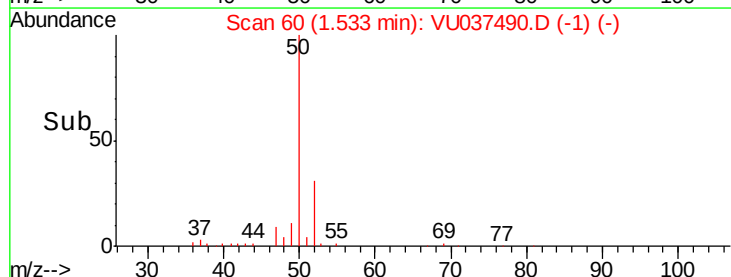
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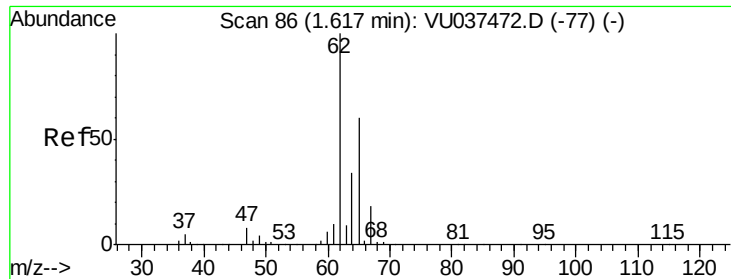
Time-->

1.50

1.55

1.60





#5

Vinyl chloride

Concen: 4.970 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU037490.D

Acq: 31 Mar 2020 04:51

Instrument :

MSVOA\_U

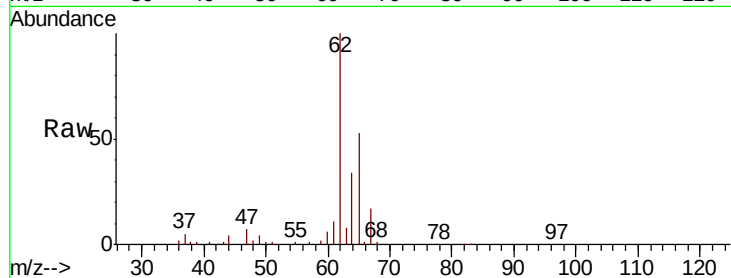
ClientSampleId :

Tot Ion: 62 Resp: 38949

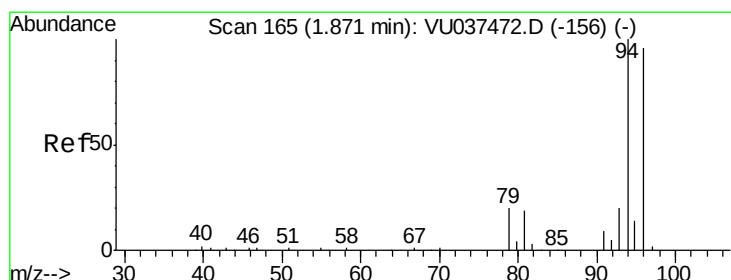
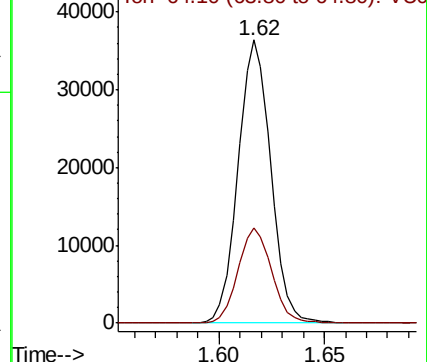
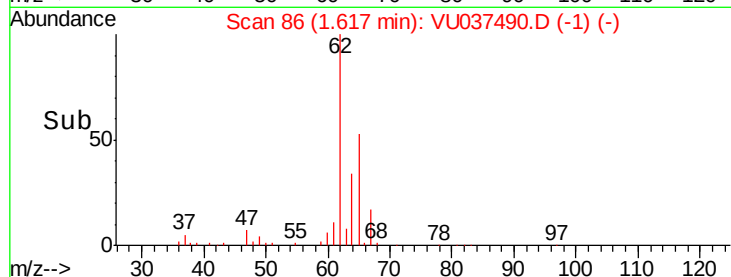
Ion Ratio Lower Upper

62 100

64 33.6 22.9 42.5



Abundance Ion 62.00 (61.70 to 62.70): VU037490.D (-1) (-)



#6

Bromomethane

Concen: 4.040 ug/L

RT: 1.87 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU037490.D

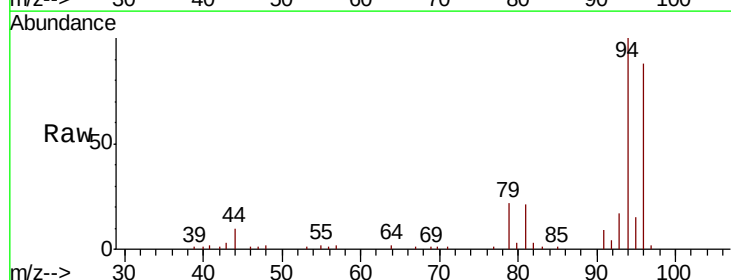
Acq: 31 Mar 2020 04:51

Tgt Ion: 94 Resp: 17841

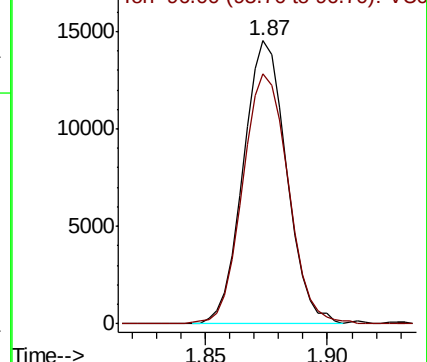
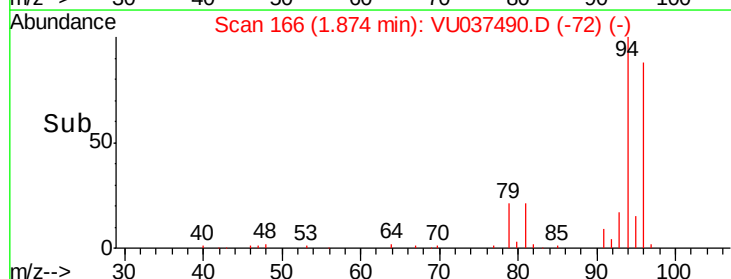
Ion Ratio Lower Upper

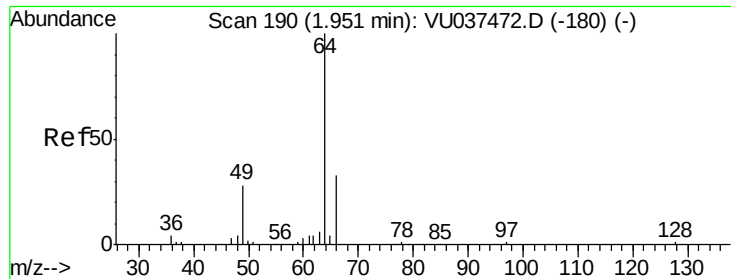
94 100

96 88.2 66.8 124.2



Abundance Ion 94.00 (93.70 to 94.70): VU037490.D (-72) (-)





#8

Chloroethane

Concen: 4.808 ug/L

RT: 1.95 min Scan# 190

Delta R.T. -0.00 min

Lab File: VU037490.D

Acq: 31 Mar 2020 04:51

Instrument :

MSVOA\_U

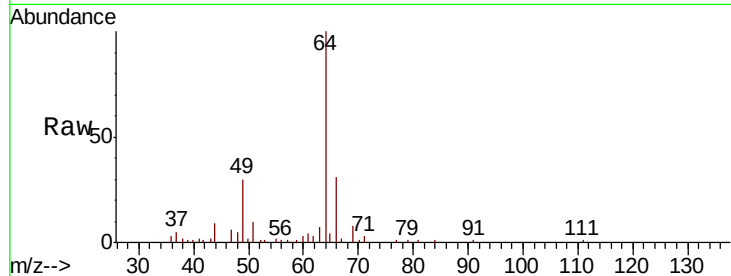
ClientSampleId :

Tot Ion: 64 Resp: 21014

Ion Ratio Lower Upper

64 100

66 31.3 24.8 46.0



Abundance Ion 64.10 (63.80 to 64.80): VU037490.D (-180) (-)

Ion 66.05 (65.75 to 66.75): VU037490.D (-180) (-)

1.95

20000

15000

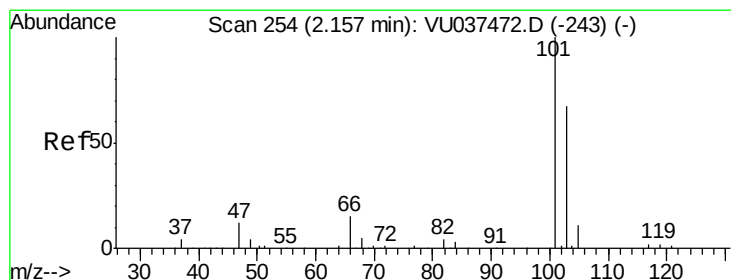
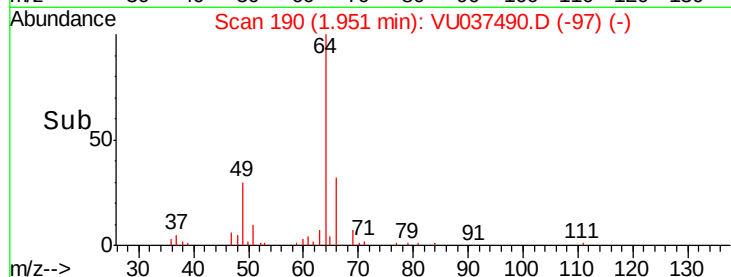
10000

5000

0

Time-->

1.90 1.95 2.00 2.05



#9

Trichlorofluoromethane

Concen: 5.069 ug/L

RT: 2.16 min Scan# 254

Delta R.T. 0.00 min

Lab File: VU037490.D

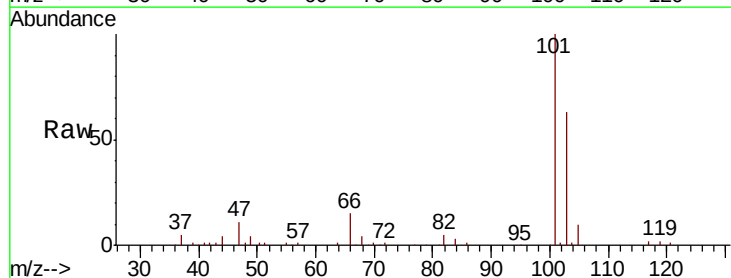
Acq: 31 Mar 2020 04:51

Tgt Ion:101 Resp: 53175

Ion Ratio Lower Upper

101 100

103 65.2 51.8 77.6



Abundance Ion 101.00 (100.70 to 101.70): VU037490.D (-161) (-)

Ion 103.00 (102.70 to 103.70): VU037490.D (-161) (-)

2.16

40000

30000

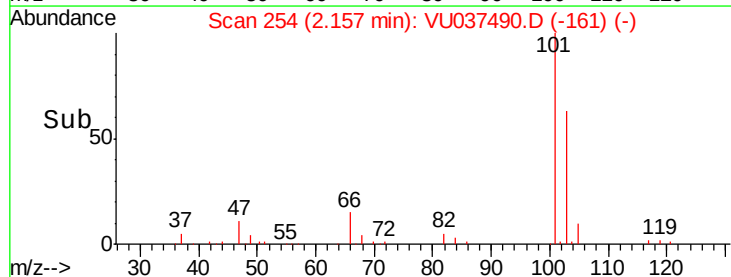
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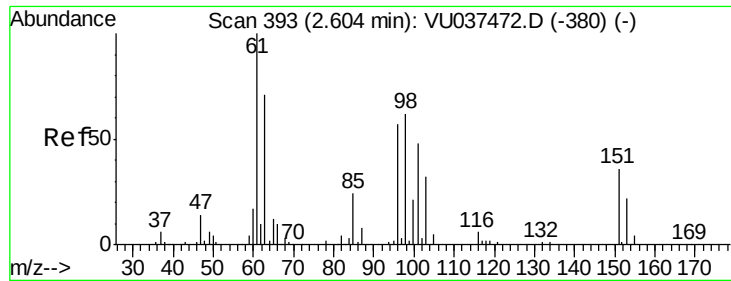
10000

0

Time-->

2.10 2.15 2.20





#10

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

Concen: 4.888 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU037490.D

Acq: 31 Mar 2020 04:51

Instrument :

MSVOA\_U

ClientSampled :

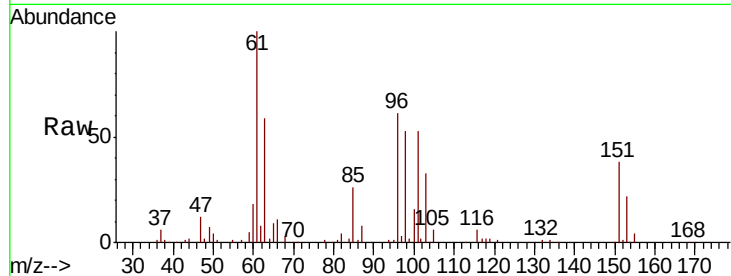
Tot Ion:101 Resp: 31242

Ion Ratio Lower Upper

101 100

85 48.0 39.0 58.6

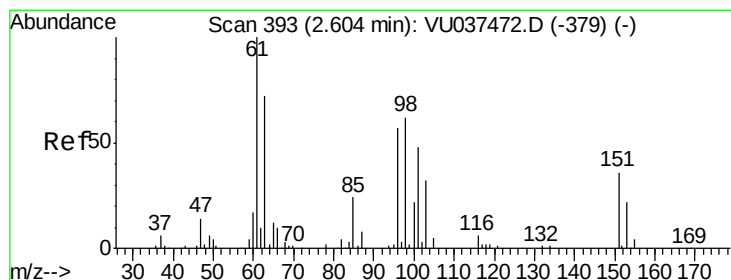
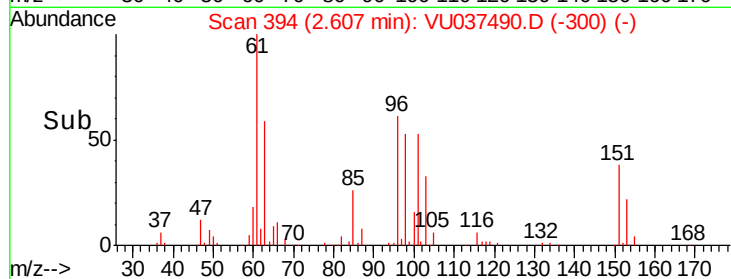
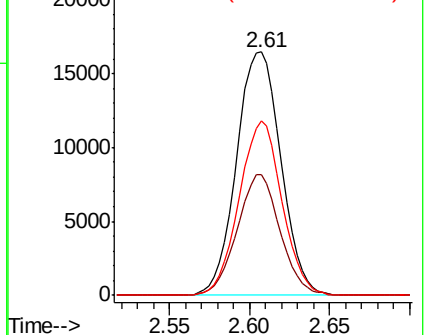
151 69.0 58.8 88.2



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: 4.743 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU037490.D

Acq: 31 Mar 2020 04:51

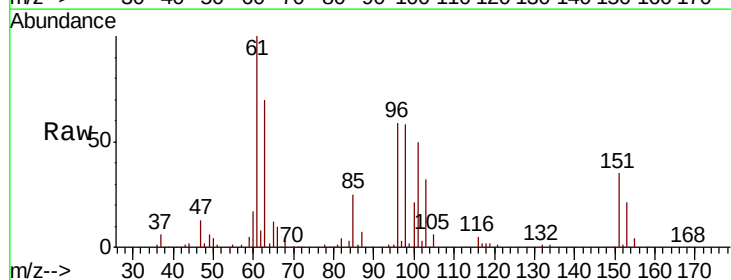
Tgt Ion: 96 Resp: 31223

Ion Ratio Lower Upper

96 100

61 169.2 125.4 232.8

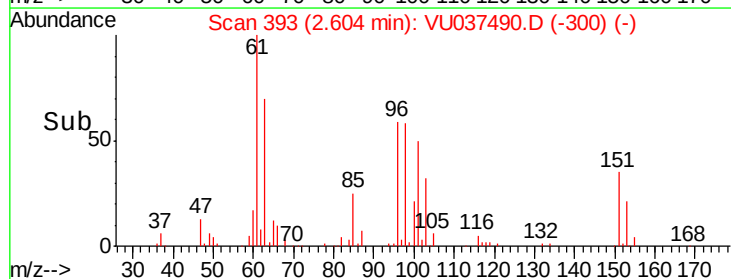
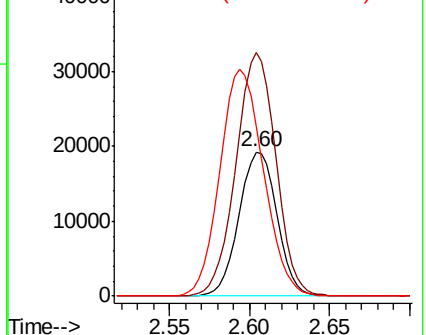
63 118.1 90.9 168.7

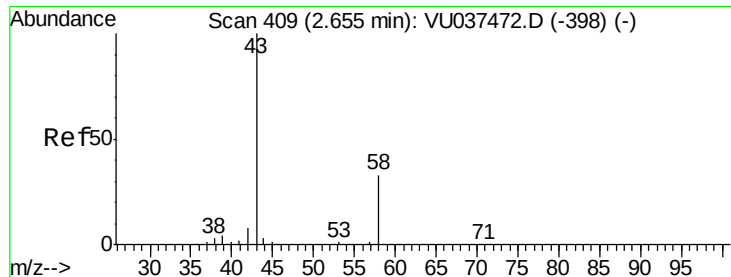


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0

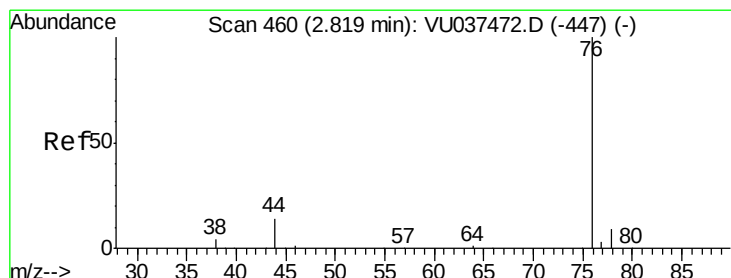
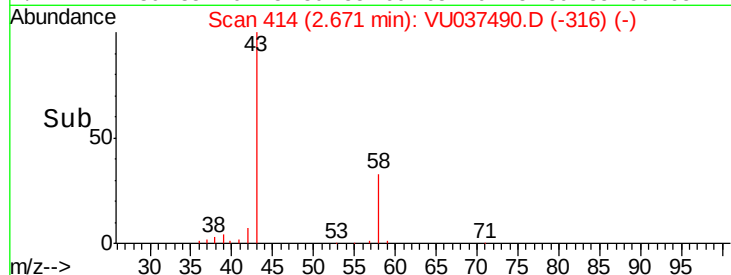
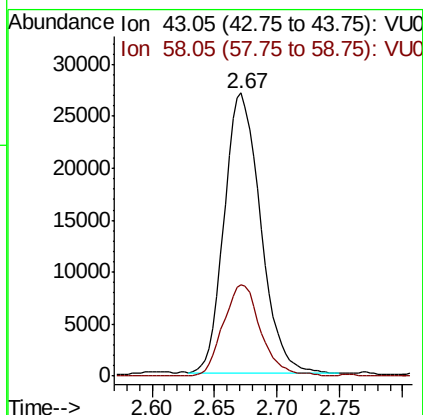
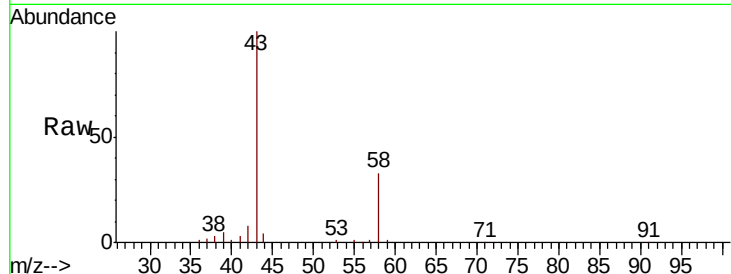




#13  
Acetone  
Concen: 46.906 ug/L  
RT: 2.67 min Scan# 414  
Delta R.T. 0.02 min  
Lab File: VU037490.D  
Acq: 31 Mar 2020 04:51

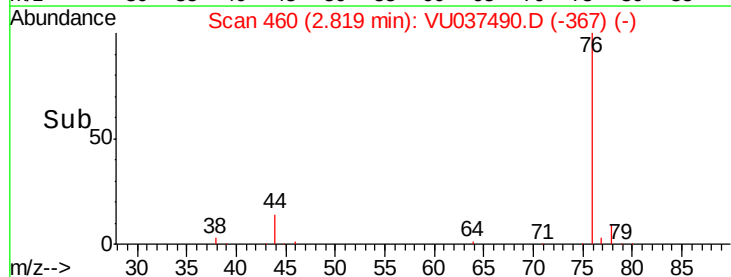
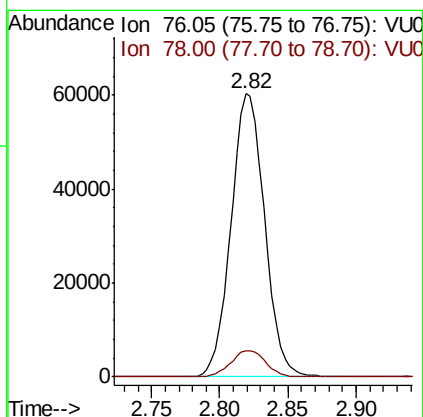
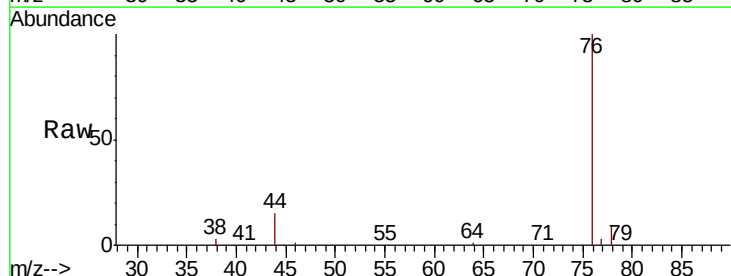
Instrument :  
MSVOA\_U  
ClientSampled :

Tot Ion: 43 Resp: 54280  
Ion Ratio Lower Upper  
43 100  
58 33.7 0.0 66.0

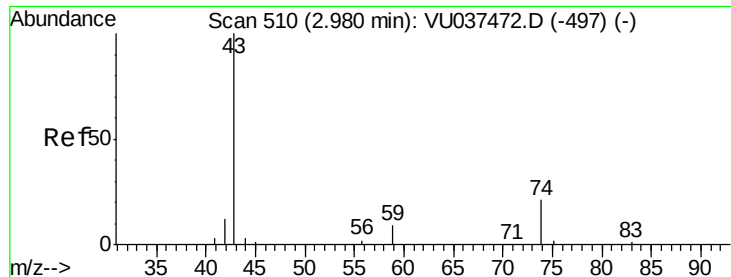


#14  
Carbon disulfide  
Concen: 4.574 ug/L  
RT: 2.82 min Scan# 460  
Delta R.T. 0.00 min  
Lab File: VU037490.D  
Acq: 31 Mar 2020 04:51

Tgt Ion: 76 Resp: 103016  
Ion Ratio Lower Upper  
76 100  
78 9.2 7.1 10.7



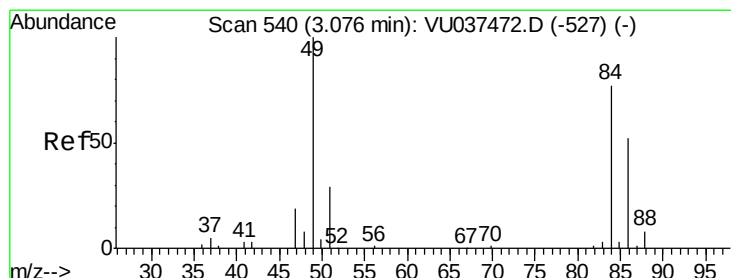
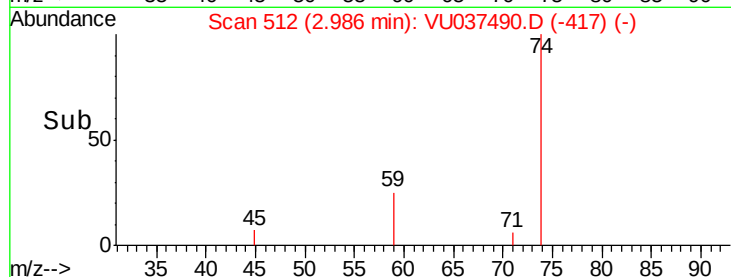
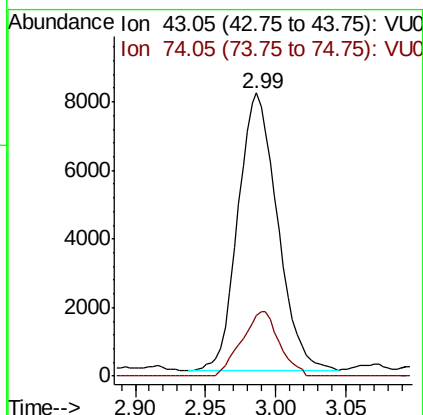
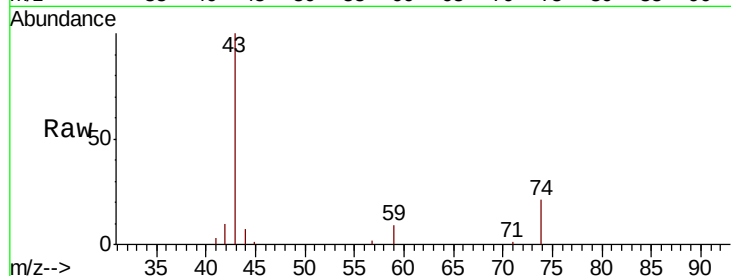




#15  
Methvl Acetate  
Concen: 4.940 ug/L  
RT: 2.99 min Scan# 512  
Delta R.T. 0.01 min  
Lab File: VU037490.D  
Acq: 31 Mar 2020 04:51

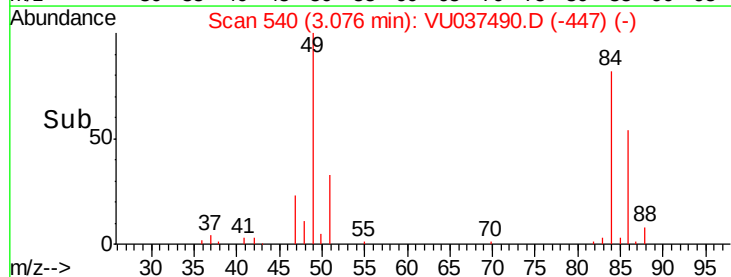
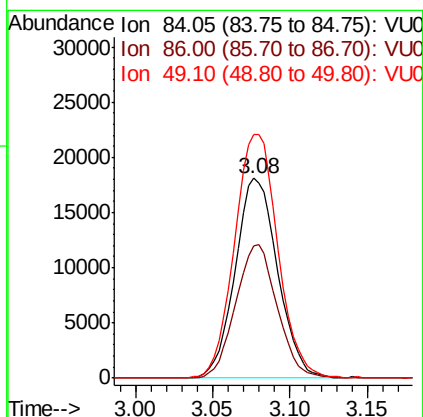
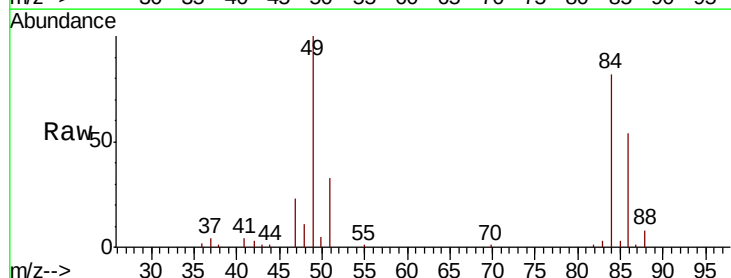
Instrument :  
MSVOA\_U  
ClientSampleId :

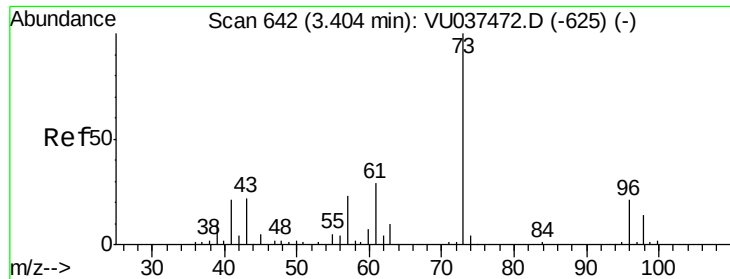
Tot Ion: 43 Resp: 15971  
Ion Ratio Lower Upper  
43 100  
74 21.9 19.8 29.6



#16  
Methylene chloride  
Concen: 4.694 ug/L  
RT: 3.08 min Scan# 540  
Delta R.T. -0.00 min  
Lab File: VU037490.D  
Acq: 31 Mar 2020 04:51

Tgt Ion: 84 Resp: 34533  
Ion Ratio Lower Upper  
84 100  
86 66.0 43.6 81.0  
49 121.8 86.4 160.4

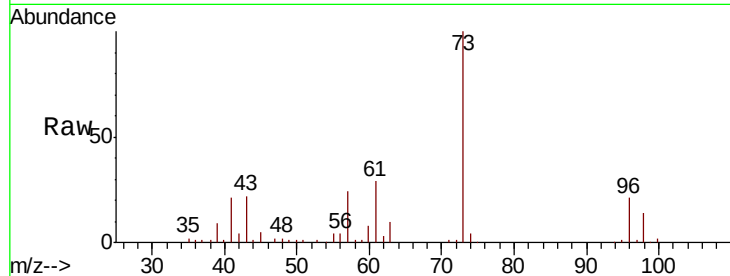




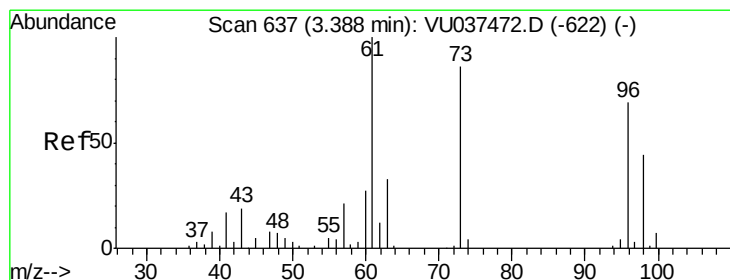
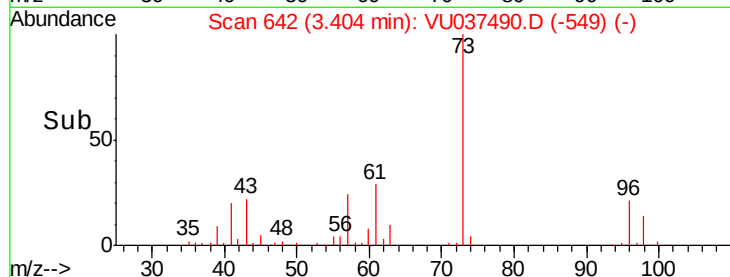
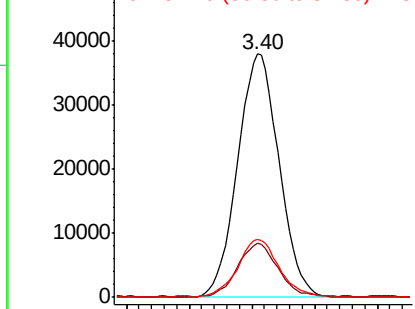
#17  
Methyl tert-butyl Ether  
Concen: 4.861 ug/L  
RT: 3.40 min Scan# 642  
Delta R.T. -0.00 min  
Lab File: VU037490.D  
Acq: 31 Mar 2020 04:51

Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 73 Resp: 87082  
Ion Ratio Lower Upper  
73 100  
43 22.2 17.4 26.2  
57 23.0 17.3 25.9

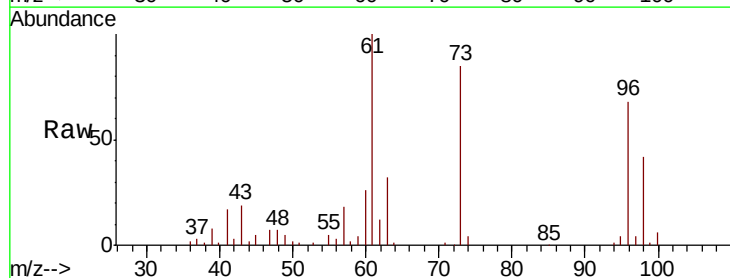


Abundance Ion 73.10 (72.80 to 73.80): VU0  
Ion 43.05 (42.75 to 43.75): VU0  
Ion 57.10 (56.80 to 57.80): VU0

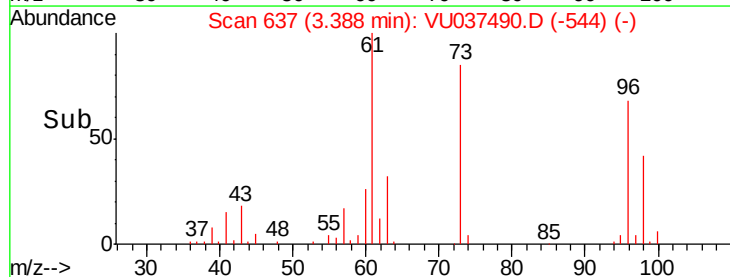
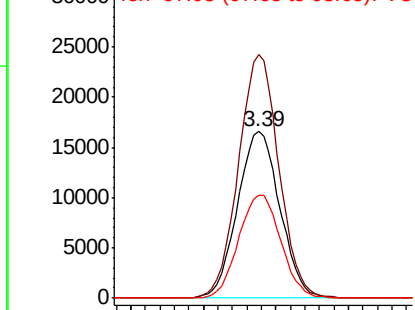


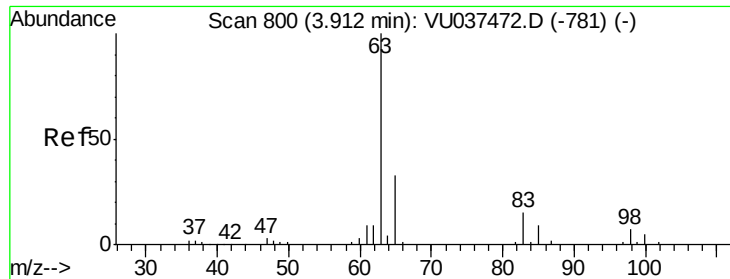
#18  
trans-1,2-Dichloroethene  
Concen: 4.887 ug/L  
RT: 3.39 min Scan# 637  
Delta R.T. 0.00 min  
Lab File: VU037490.D  
Acq: 31 Mar 2020 04:51

Tgt Ion: 96 Resp: 33647  
Ion Ratio Lower Upper  
96 100  
61 146.2 99.9 185.5  
98 62.0 45.4 84.4



Abundance Ion 96.00 (95.70 to 96.70): VU0  
Ion 61.05 (60.75 to 61.75): VU0  
Ion 97.95 (97.65 to 98.65): VU0

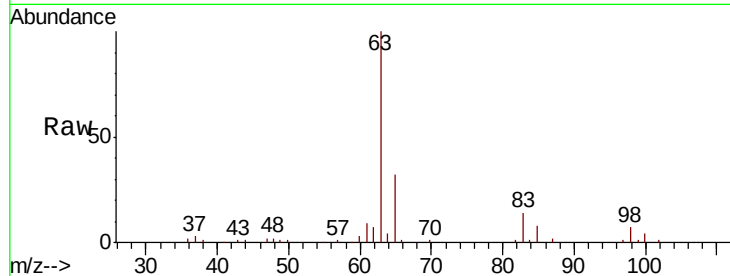




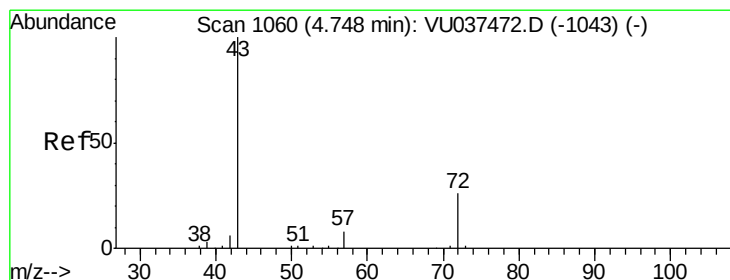
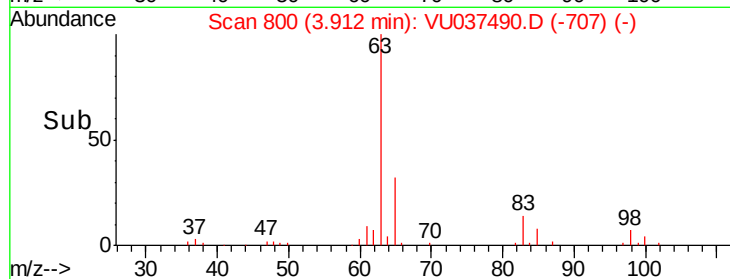
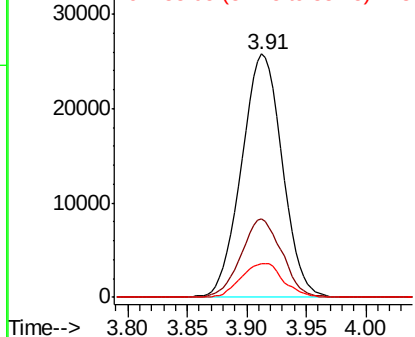
#19  
 1,1-Dichloroethane  
 Concen: 4.753 ug/L  
 RT: 3.91 min Scan# 800  
 Delta R.T. -0.00 min  
 Lab File: VU037490.D  
 Acq: 31 Mar 2020 04:51

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Tot Ion: 63 Resp: 61150  
 Ion Ratio Lower Upper  
 63 100  
 65 33.0 23.7 43.9  
 83 13.7 10.6 19.6

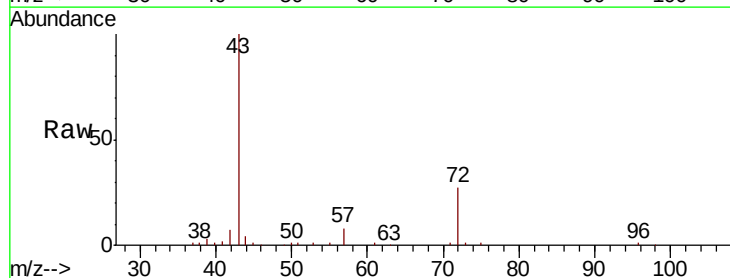


Abundance Ion 63.10 (62.80 to 63.80): VU0  
 Ion 65.10 (64.80 to 65.80): VU0  
 Ion 83.05 (82.75 to 83.75): VU0

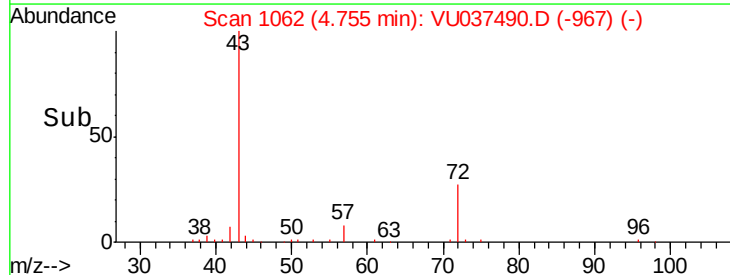
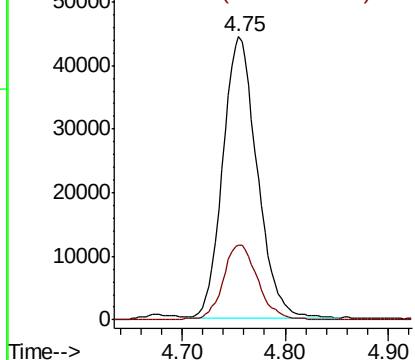


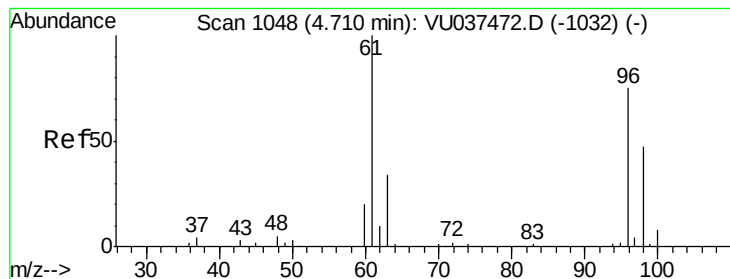
#21  
 2-Butanone  
 Concen: 52.301 ug/L  
 RT: 4.75 min Scan# 1062  
 Delta R.T. 0.01 min  
 Lab File: VU037490.D  
 Acq: 31 Mar 2020 04:51

Tgt Ion: 43 Resp: 102890  
 Ion Ratio Lower Upper  
 43 100  
 72 27.0 14.2 42.6



Abundance Ion 43.05 (42.75 to 43.75): VU0  
 Ion 72.10 (71.80 to 72.80): VU0





#22

cis-1,2-Dichloroethene

Concen: 4.666 ug/L

RT: 4.71 min Scan# 1048

Delta R.T. 0.00 min

Lab File: VU037490.D

Acq: 31 Mar 2020 04:51

Instrument :

MSVOA\_U

ClientSampled :

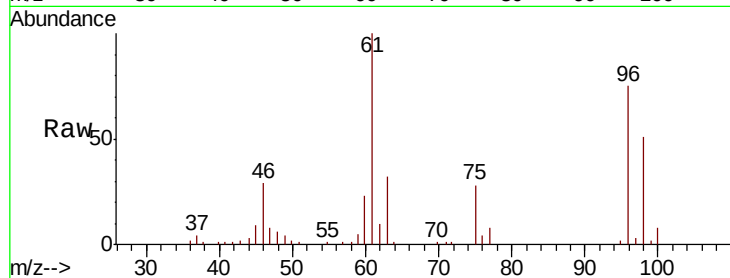
Tot Ion: 96 Resp: 35992

Ion Ratio Lower Upper

96 100

61 132.7 91.6 170.2

68 0.0 0.0 0.0

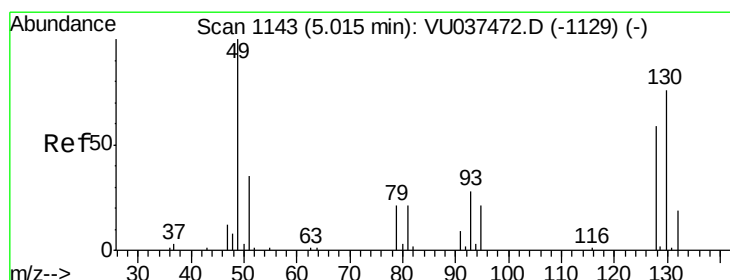
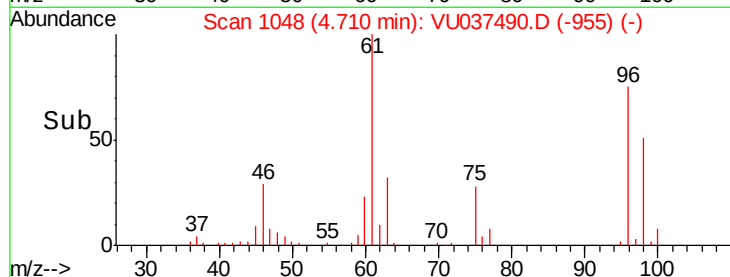
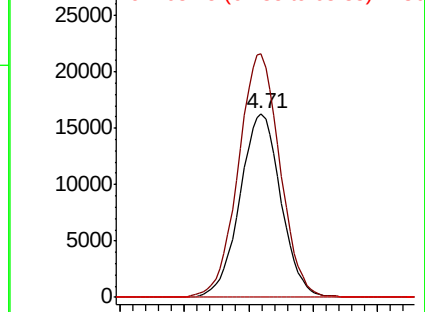


Abundance

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



#23

Bromochloromethane

Concen: 4.576 ug/L

RT: 5.02 min Scan# 1144

Delta R.T. 0.00 min

Lab File: VU037490.D

Acq: 31 Mar 2020 04:51

Tgt Ion: 128 Resp: 15596

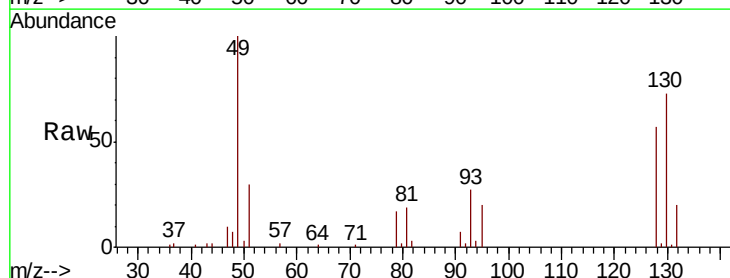
Ion Ratio Lower Upper

128 100

49 174.7 119.1 221.3

130 127.2 92.6 172.0

51 52.4 43.7 65.5



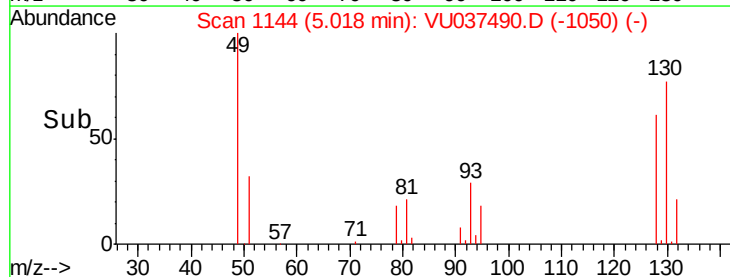
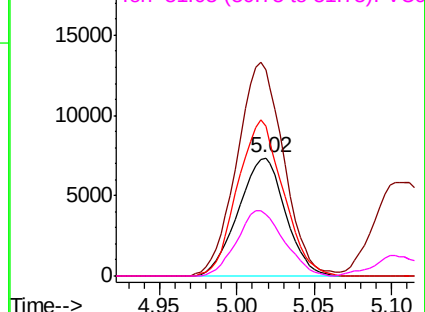
Abundance

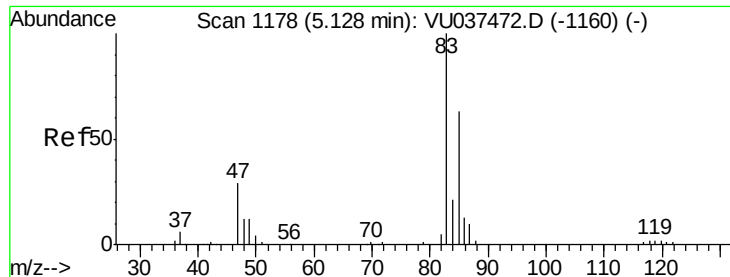
Ion 127.90 (127.60 to 128.60): V

Ion 49.10 (48.80 to 49.80): VU0

Ion 129.95 (129.65 to 130.65): V

Ion 51.05 (50.75 to 51.75): VU0

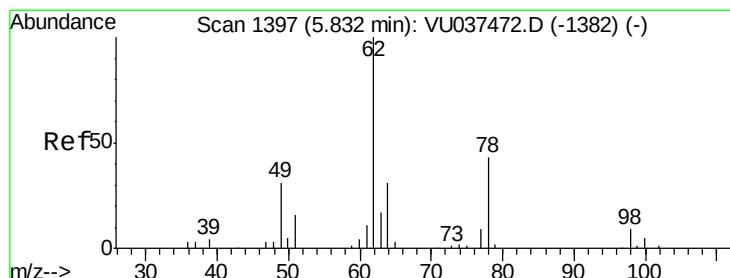
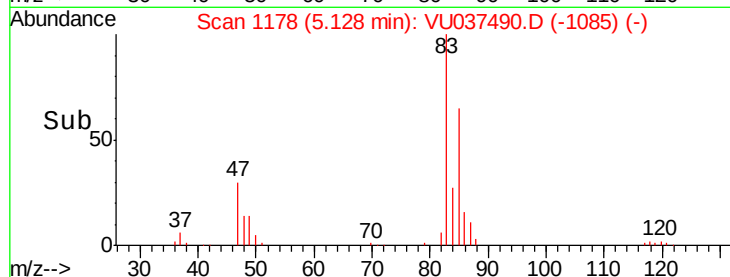
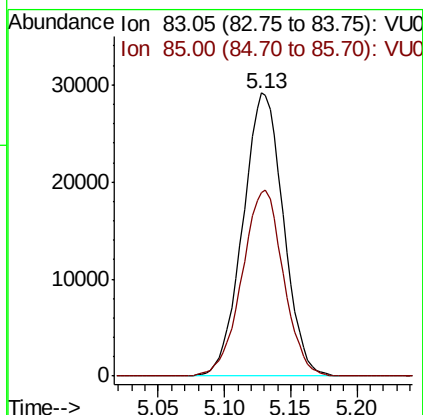
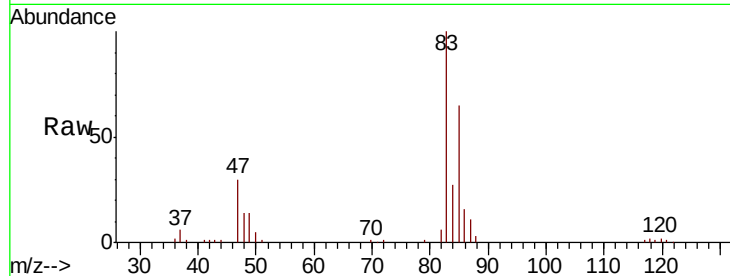




#25  
Chloroform  
Concen: 4.589 ug/L  
RT: 5.13 min Scan# 1178  
Delta R.T. -0.00 min  
Lab File: VU037490.D  
Acq: 31 Mar 2020 04:51

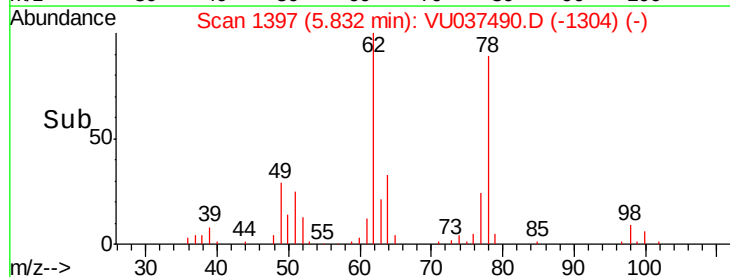
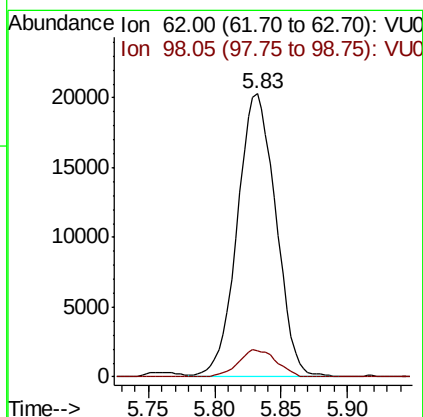
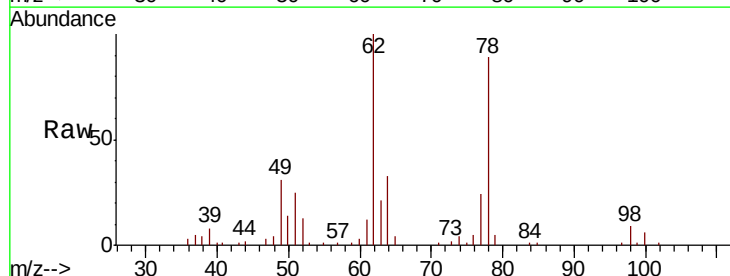
Instrument :  
MSVOA\_U  
ClientSampleId :

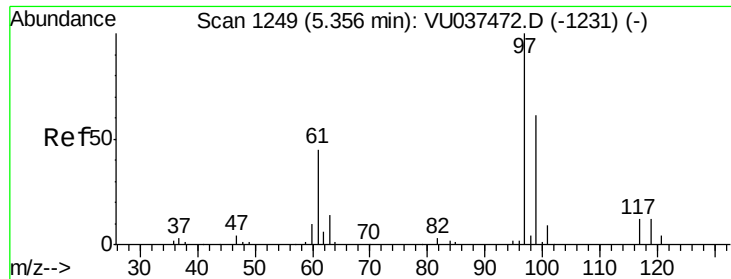
Tot Ion: 83 Resp: 62112  
Ion Ratio Lower Upper  
83 100  
85 64.9 45.4 84.4



#27  
1,2-Dichloroethane  
Concen: 4.540 ug/L  
RT: 5.83 min Scan# 1397  
Delta R.T. -0.00 min  
Lab File: VU037490.D  
Acq: 31 Mar 2020 04:51

Tgt Ion: 62 Resp: 41049  
Ion Ratio Lower Upper  
62 100  
98 9.2 7.3 10.9

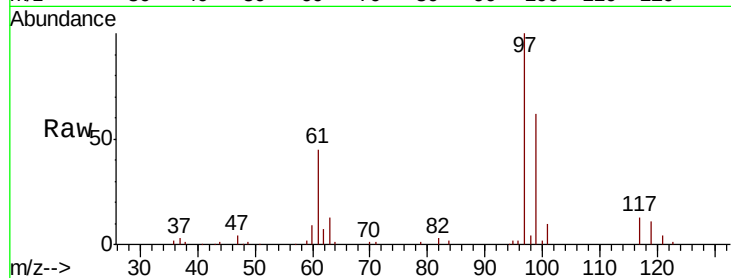




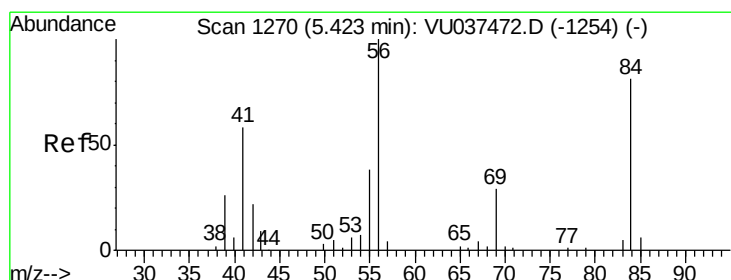
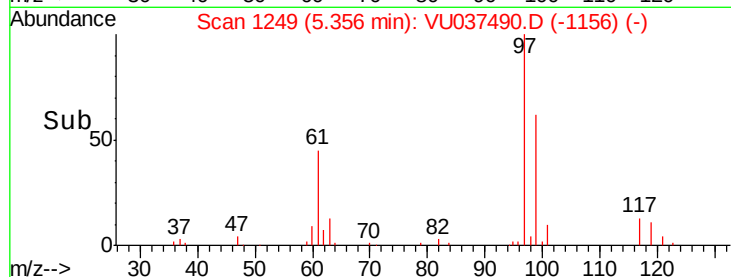
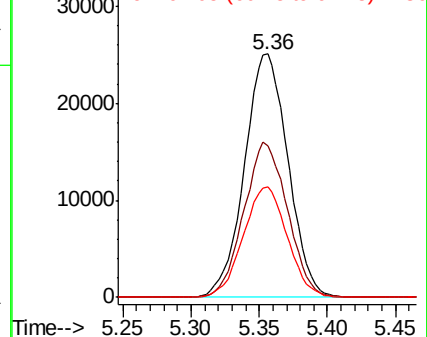
#29  
 1,1,1-Trichloroethane  
 Concen: 4.623 ug/L  
 RT: 5.36 min Scan# 1249  
 Delta R.T. 0.00 min  
 Lab File: VU037490.D  
 Acq: 31 Mar 2020 04:51

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Tot Ion: 97 Resp: 55528  
 Ion Ratio Lower Upper  
 97 100  
 99 63.9 51.0 76.6  
 61 46.0 36.7 55.1

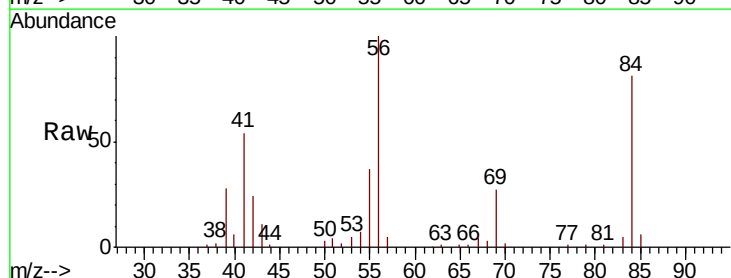


Abundance Ion 96.95 (96.65 to 97.65): VU0  
 Ion 99.05 (98.75 to 99.75): VU0  
 Ion 61.05 (60.75 to 61.75): VU0

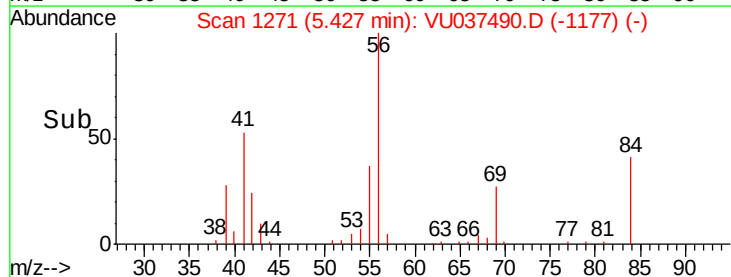
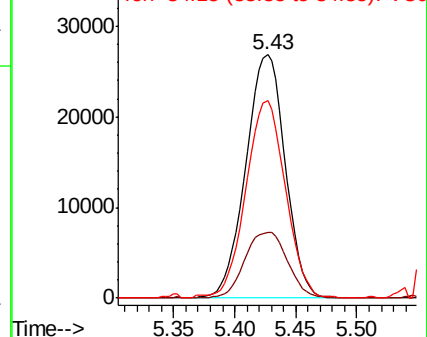


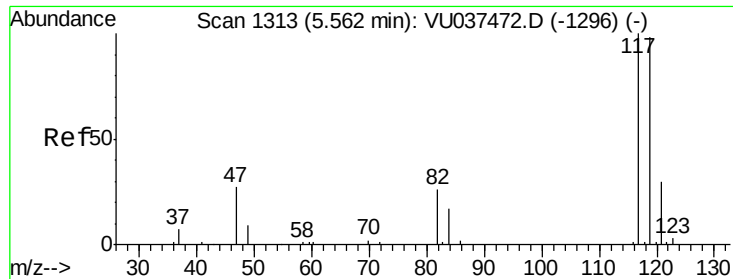
#30  
 Cyclohexane  
 Concen: 4.875 ug/L  
 RT: 5.43 min Scan# 1271  
 Delta R.T. 0.00 min  
 Lab File: VU037490.D  
 Acq: 31 Mar 2020 04:51

Tgt Ion: 56 Resp: 59994  
 Ion Ratio Lower Upper  
 56 100  
 69 29.3 25.7 38.5  
 84 81.4 67.1 100.7



Abundance Ion 56.10 (55.80 to 56.80): VU0  
 Ion 69.15 (68.85 to 69.85): VU0  
 Ion 84.15 (83.85 to 84.85): VU0





#31

Carbon tetrachloride

Concen: 4.399 ug/L

RT: 5.56 min Scan# 1313

Delta R.T. -0.00 min

Lab File: VU037490.D

Acq: 31 Mar 2020 04:51

Instrument :

MSVOA\_U

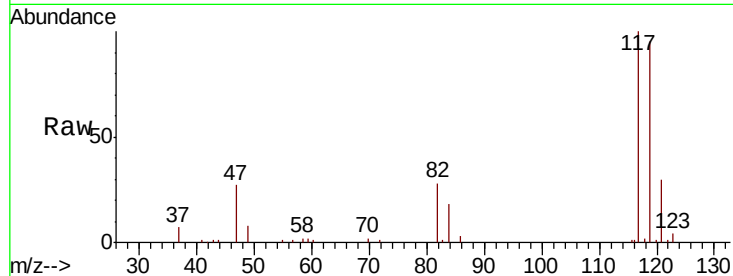
ClientSampleId :

Tot Ion:117 Resp: 45614

Ion Ratio Lower Upper

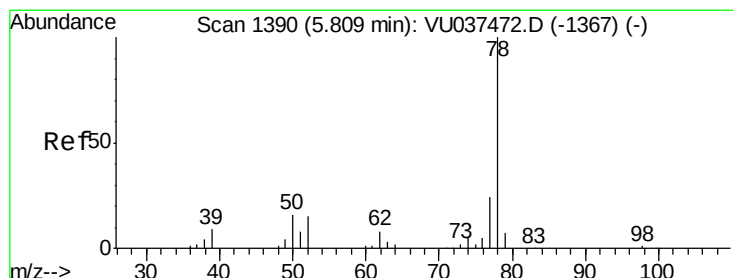
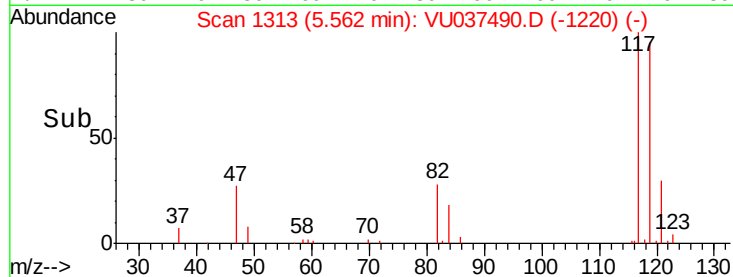
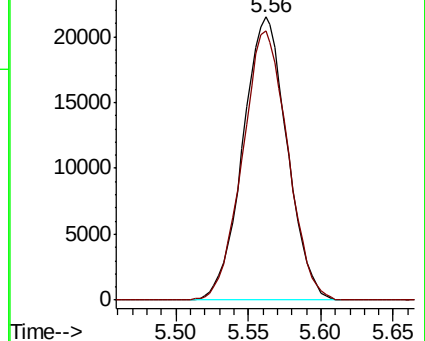
117 100

119 96.9 77.7 116.5



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 4.896 ug/L

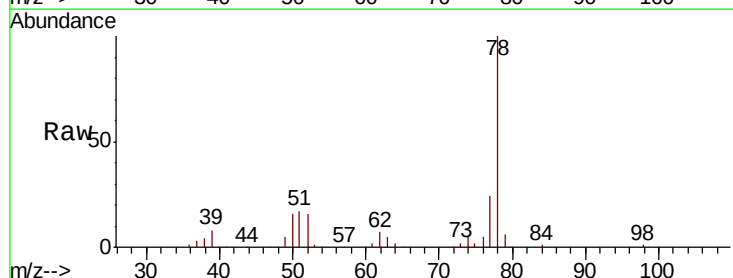
RT: 5.81 min Scan# 1390

Delta R.T. 0.00 min

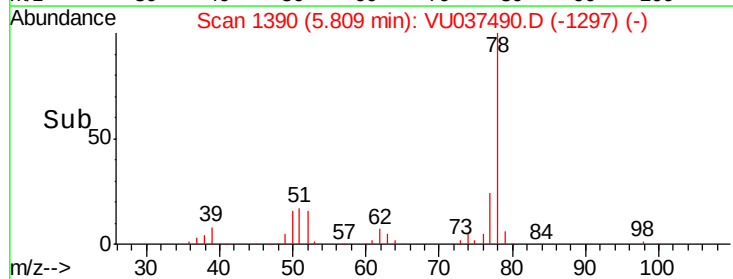
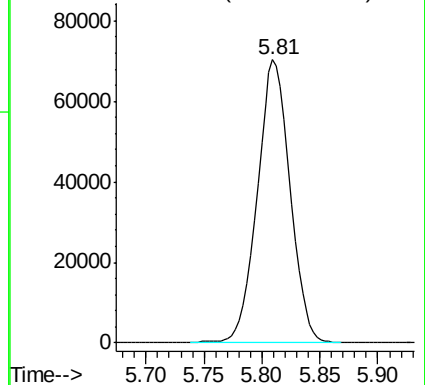
Lab File: VU037490.D

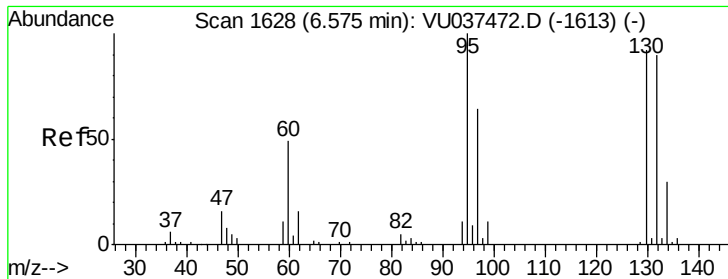
Acq: 31 Mar 2020 04:51

Tgt Ion: 78 Resp: 138539



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 4.486 ug/L

RT: 6.57 min Scan# 1628

Delta R.T. 0.00 min

Lab File: VU037490.D

Acq: 31 Mar 2020 04:51

Instrument :

MSVOA\_U

ClientSampleId :

Tot Ion: 95 Resp: 36158

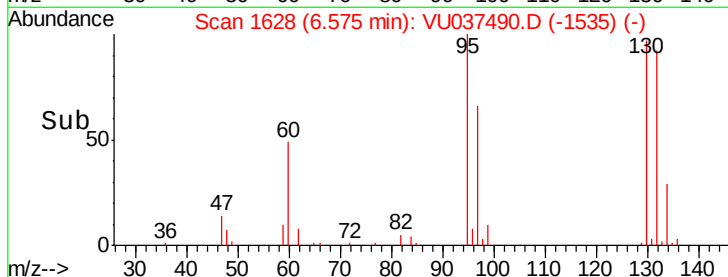
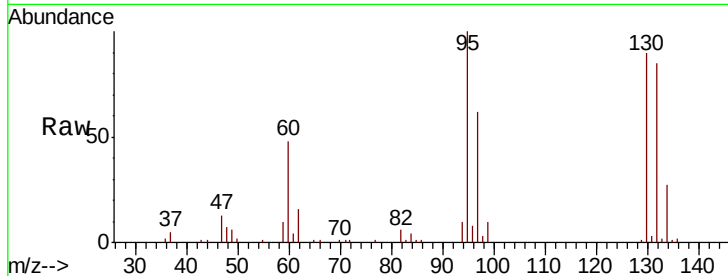
Ion Ratio Lower Upper

95 100

97 61.6 45.3 84.1

132 85.1 62.7 116.5

130 90.1 69.1 128.3



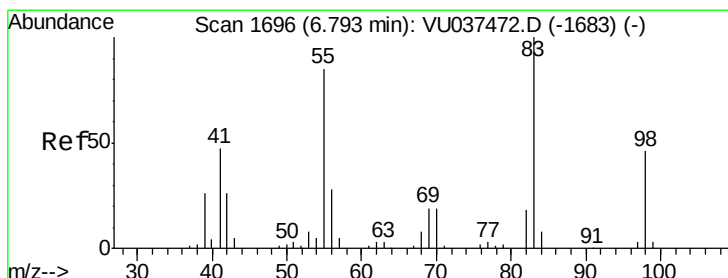
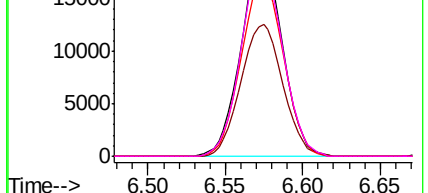
Abundance Ion 95.00 (94.70 to 95.70): VU037490.D (-1535) (-)

Ion 96.95 (96.65 to 97.65): VU037490.D (-1535) (-)

Ion 131.95 (131.65 to 132.65): VU037490.D (-1535) (-)

Ion 129.95 (129.65 to 130.65): VU037490.D (-1535) (-)

Time-->



#35

Methylcyclohexane

Concen: 4.691 ug/L

RT: 6.79 min Scan# 1696

Delta R.T. 0.00 min

Lab File: VU037490.D

Acq: 31 Mar 2020 04:51

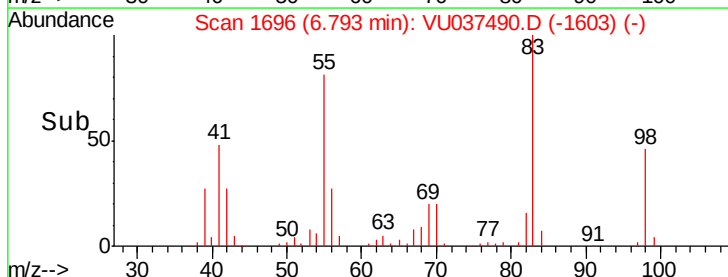
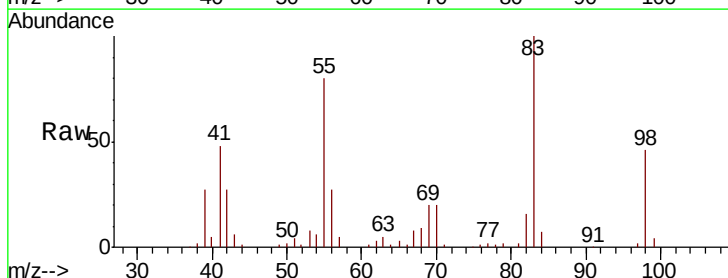
Tgt Ion: 83 Resp: 59831

Ion Ratio Lower Upper

83 100

55 78.4 64.2 96.4

98 45.6 36.3 54.5

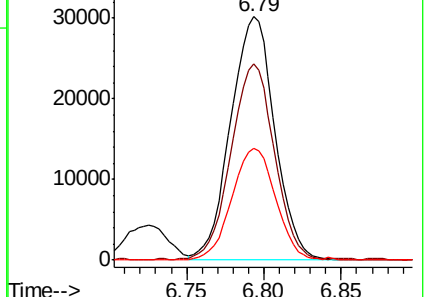


Abundance Ion 83.15 (82.85 to 83.85): VU037490.D (-1603) (-)

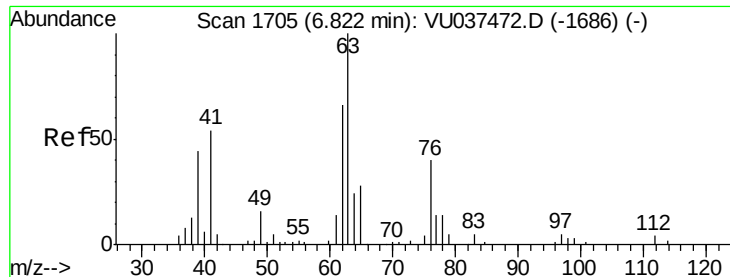
Ion 55.10 (54.80 to 55.80): VU037490.D (-1603) (-)

Ion 98.15 (97.85 to 98.85): VU037490.D (-1603) (-)

Time-->



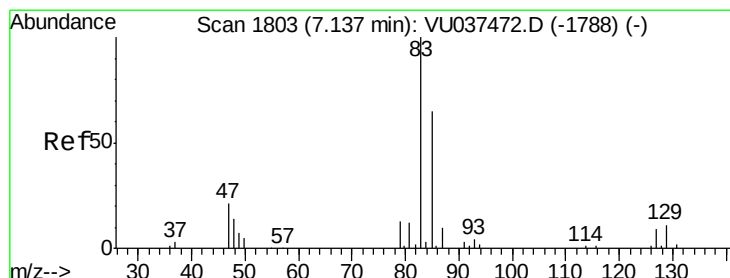
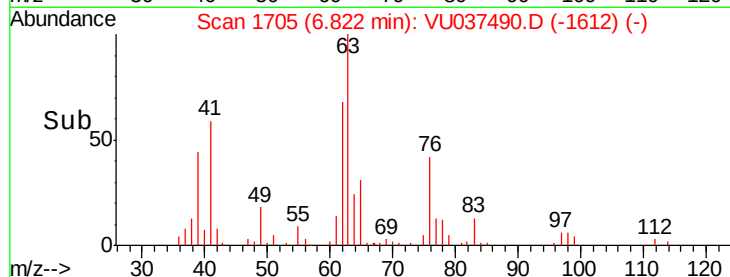
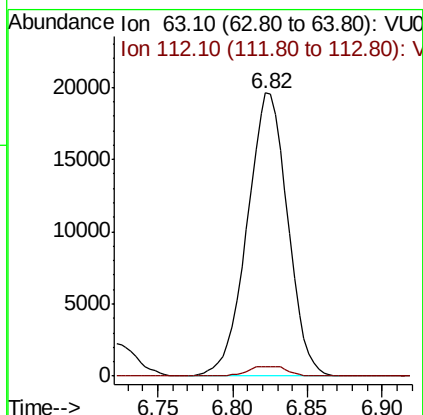
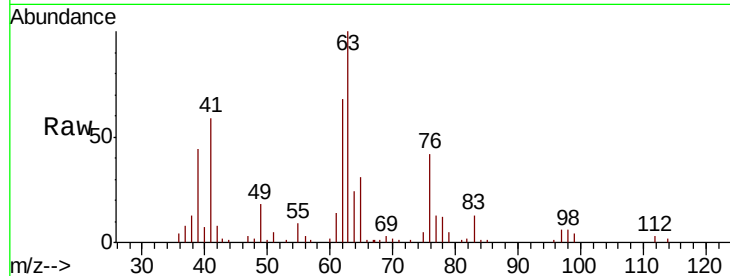




#37  
 1,2-Dichloropropane  
 Concen: 5.041 ug/L  
 RT: 6.82 min Scan# 1705  
 Delta R.T. -0.00 min  
 Lab File: VU037490.D  
 Acq: 31 Mar 2020 04:51

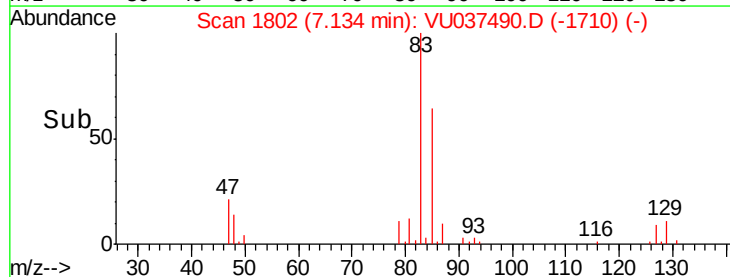
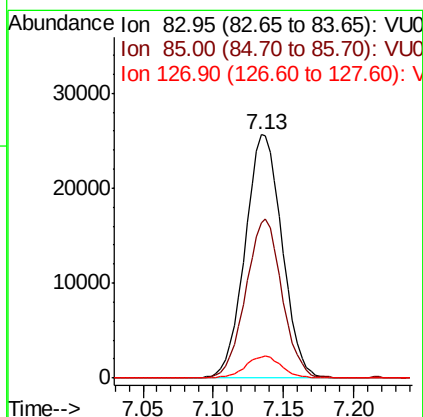
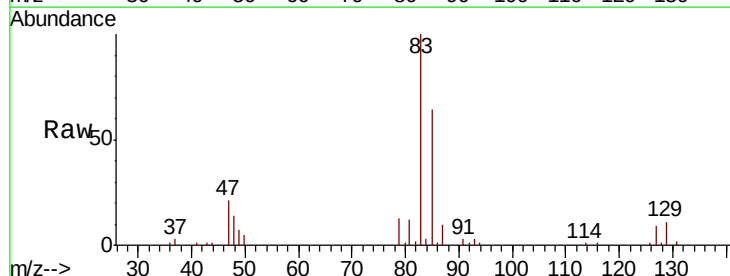
Instrument :  
 MSVOA\_U  
 ClientSampled :

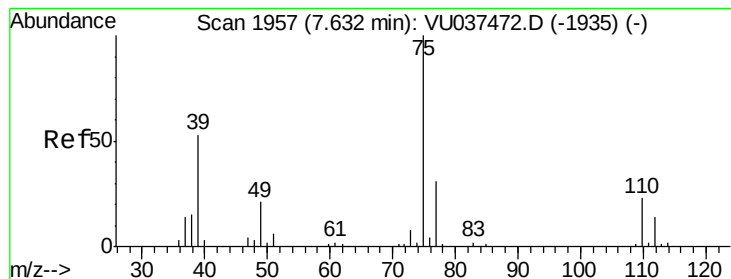
Tot Ion: 63 Resp: 36879  
 Ion Ratio Lower Upper  
 63 100  
 112 3.3 3.0 4.6



#38  
 Bromodichloromethane  
 Concen: 4.703 ug/L  
 RT: 7.13 min Scan# 1802  
 Delta R.T. -0.00 min  
 Lab File: VU037490.D  
 Acq: 31 Mar 2020 04:51

Tgt Ion: 83 Resp: 47051  
 Ion Ratio Lower Upper  
 83 100  
 85 63.8 42.4 78.8  
 127 8.5 7.0 10.6



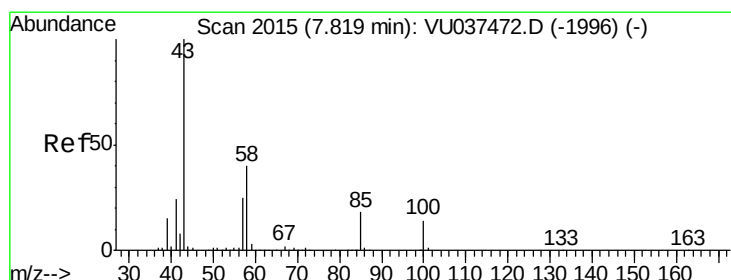
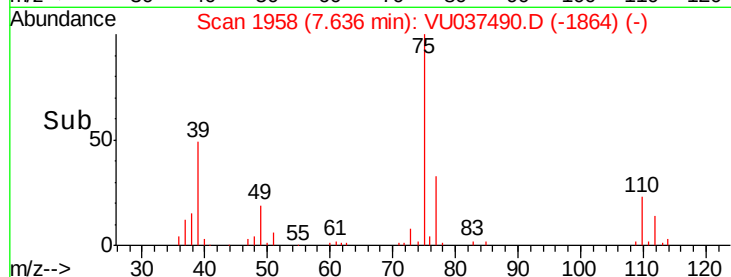
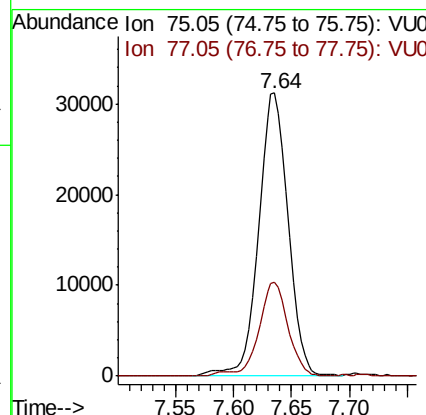
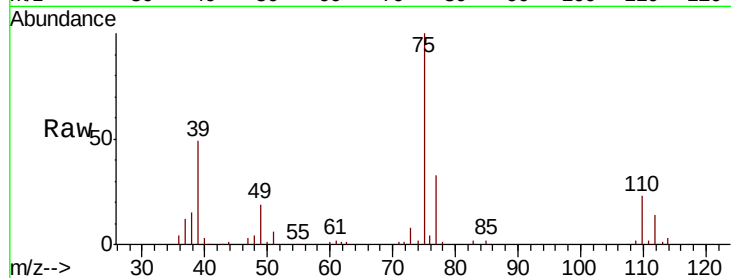


#39

cis-1,3-Dichloropropene  
 Concen: 4.652 ug/L  
 RT: 7.64 min Scan# 1958  
 Delta R.T. 0.00 min  
 Lab File: VU037490.D  
 Acq: 31 Mar 2020 04:51

Instrument :  
 MSVOA\_U  
 ClientSampleId :

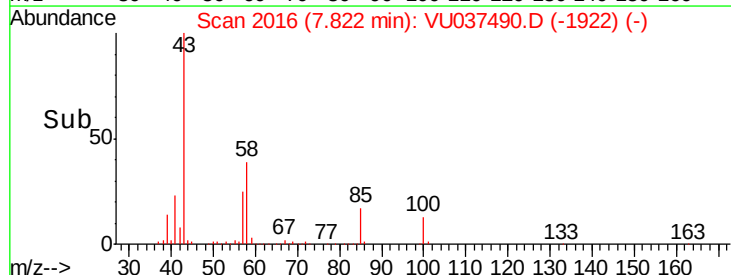
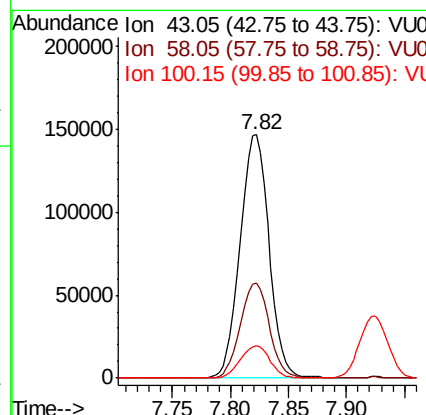
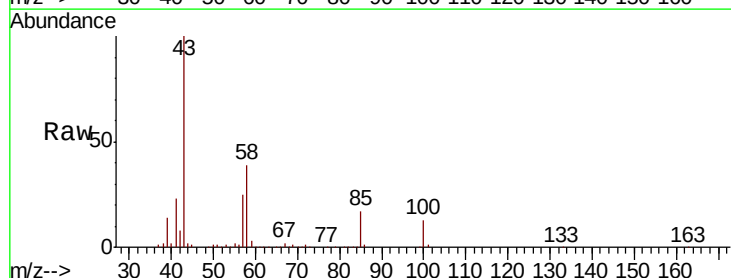
Tot Ion: 75 Resp: 55496  
 Ion Ratio Lower Upper  
 75 100  
 77 33.1 21.1 39.3

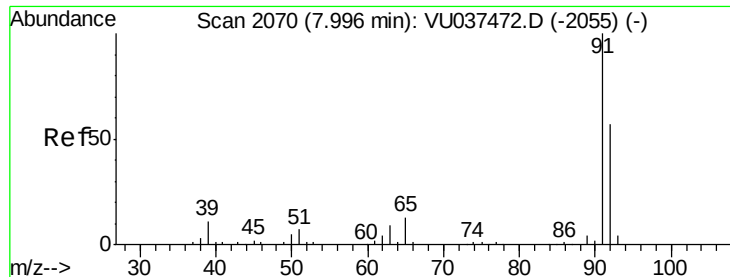


#40

4-Methyl-2-pentanone  
 Concen: 52.051 ug/L  
 RT: 7.82 min Scan# 2016  
 Delta R.T. 0.00 min  
 Lab File: VU037490.D  
 Acq: 31 Mar 2020 04:51

Tgt Ion: 43 Resp: 253502  
 Ion Ratio Lower Upper  
 43 100  
 58 39.3 32.1 48.1  
 100 13.4 11.6 17.4





#42

Toluene

Concen: 4.793 ug/L

RT: 8.00 min Scan# 2070

Delta R.T. -0.00 min

Lab File: VU037490.D

Acq: 31 Mar 2020 04:51

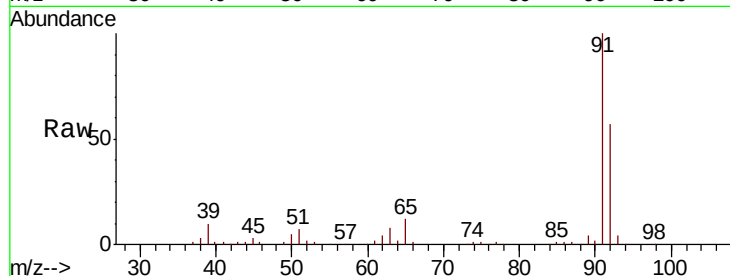
Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 91 Resp: 146176

Ion Ratio Lower Upper

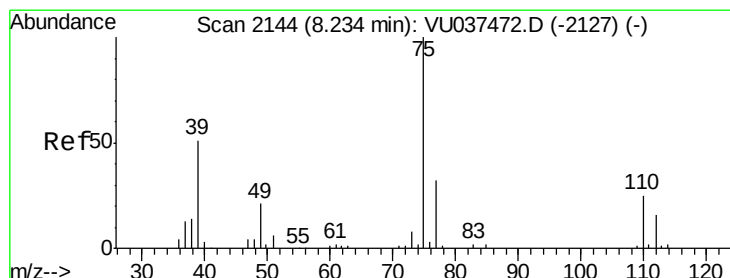
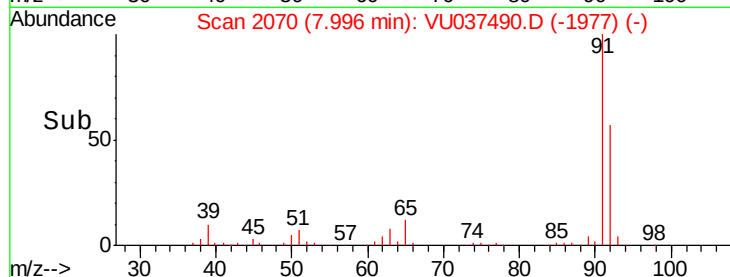
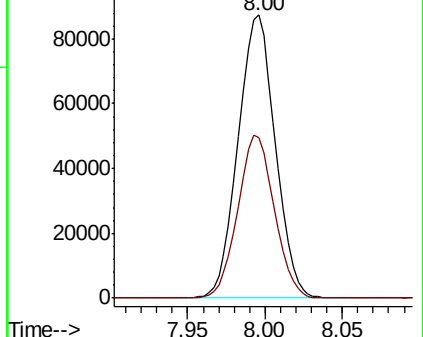
91 100

92 56.6 39.8 73.8



Abundance Ion 91.15 (90.85 to 91.85): VU037472.D (-2055) (-)

Ion 92.15 (91.85 to 92.85): VU037490.D (-1977) (-)



#44

trans-1,3-Dichloropropene

Concen: 4.490 ug/L

RT: 8.23 min Scan# 2144

Delta R.T. -0.00 min

Lab File: VU037490.D

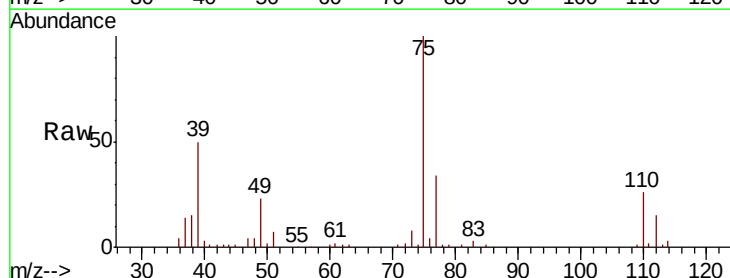
Acq: 31 Mar 2020 04:51

Tgt Ion: 75 Resp: 47883

Ion Ratio Lower Upper

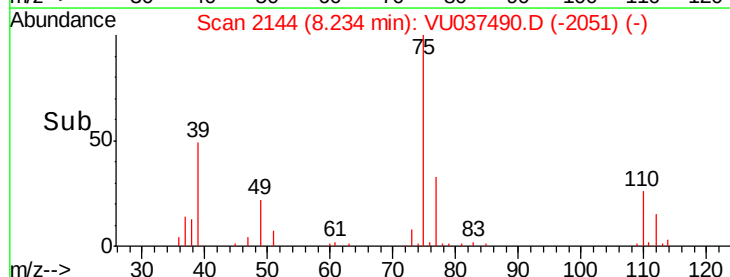
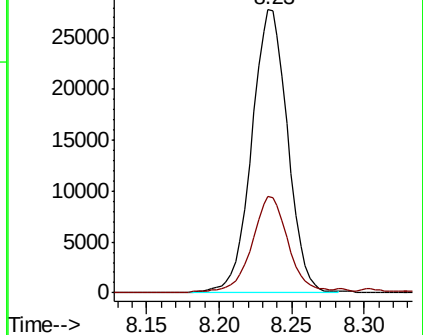
75 100

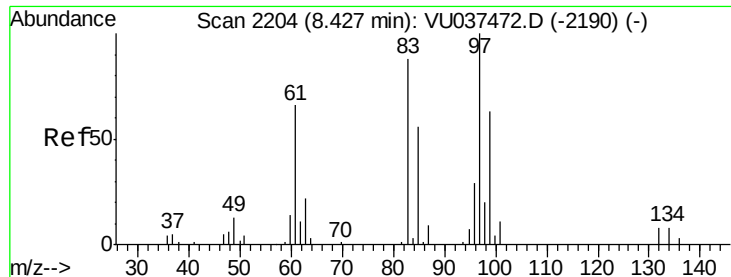
77 33.9 22.7 42.1



Abundance Ion 75.05 (74.75 to 75.75): VU037472.D (-2127) (-)

Ion 77.05 (76.75 to 77.75): VU037490.D (-2051) (-)

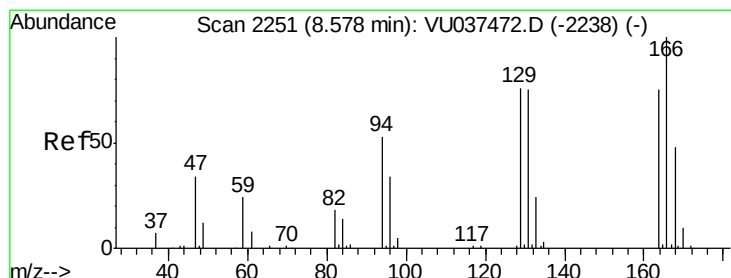
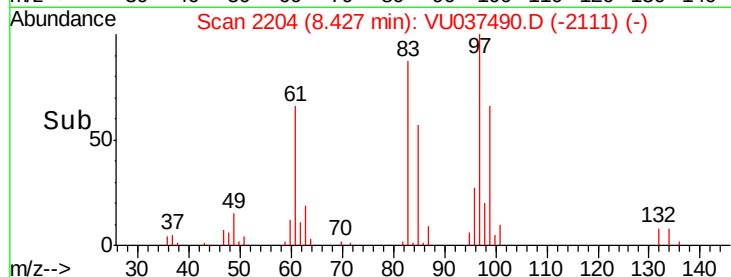
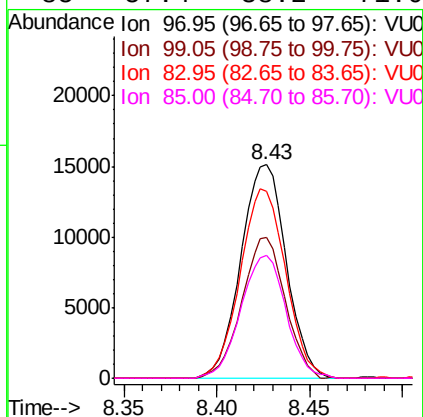
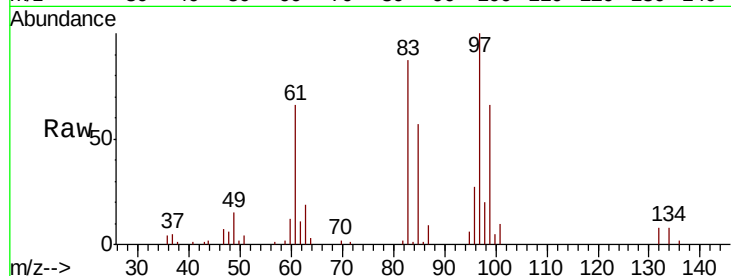




#45  
 1,1,2-Trichloroethane  
 Concen: 4.729 ug/L  
 RT: 8.43 min Scan# 2204  
 Delta R.T. -0.00 min  
 Lab File: VU037490.D  
 Acq: 31 Mar 2020 04:51

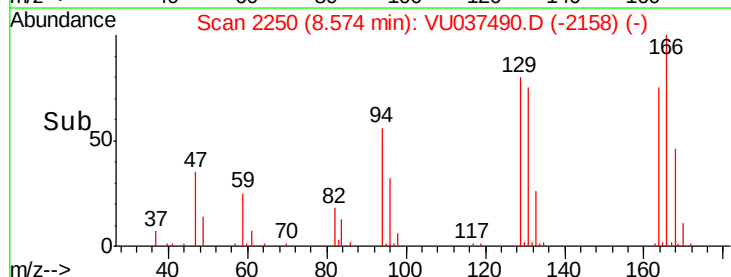
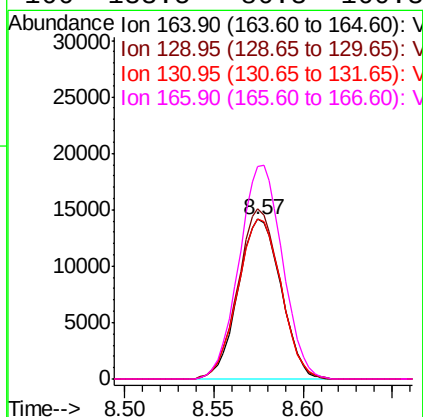
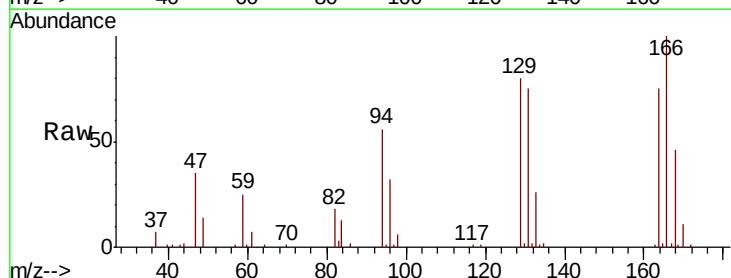
Instrument :  
 MSVOA\_U  
 ClientSampleId :

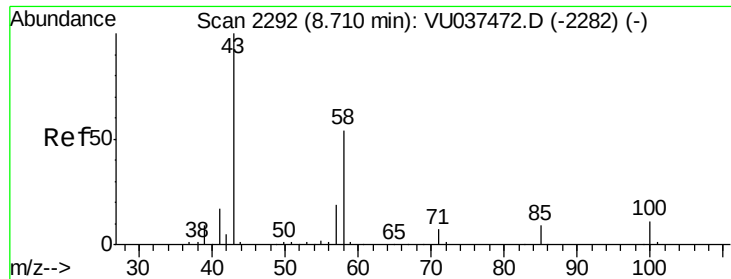
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 97    | Resp: | 25872 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 66.1  | 41.1  | 76.3  |
| 83       | 87.4  | 58.7  | 108.9 |
| 85       | 57.4  | 38.2  | 71.0  |



#47  
 Tetrachloroethene  
 Concen: 4.288 ug/L  
 RT: 8.57 min Scan# 2250  
 Delta R.T. -0.00 min  
 Lab File: VU037490.D  
 Acq: 31 Mar 2020 04:51

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 23807 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 106.6 | 68.8  | 127.8 |
| 131      | 100.6 | 66.9  | 124.3 |
| 166      | 133.5 | 86.3  | 160.3 |

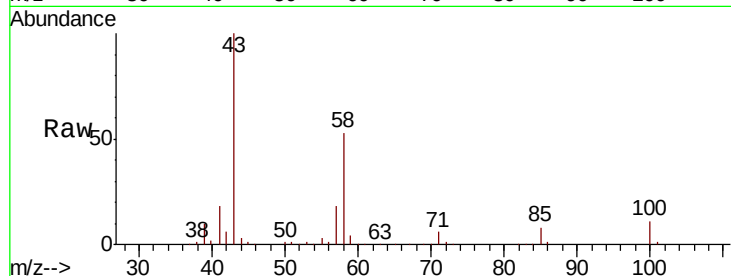




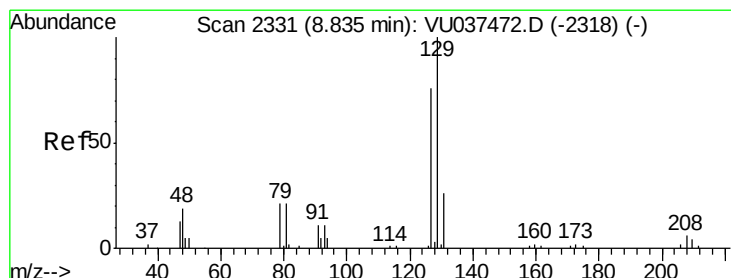
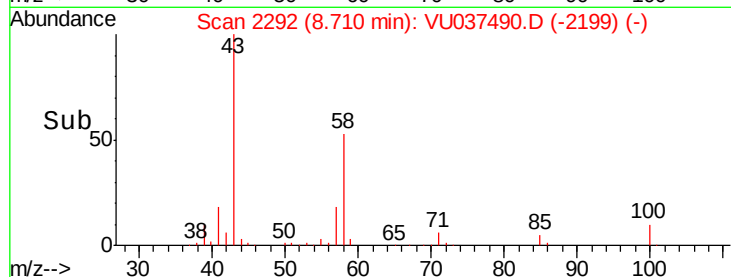
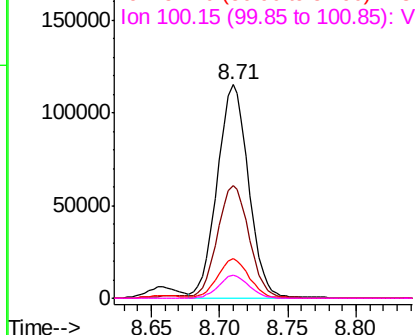
#48  
2-Hexanone  
Concen: 52.450 ug/L  
RT: 8.71 min Scan# 2292  
Delta R.T. -0.00 min  
Lab File: VU037490.D  
Acq: 31 Mar 2020 04:51

Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 43 Resp: 184124  
Ion Ratio Lower Upper  
43 100  
58 53.9 44.2 66.2  
57 18.5 15.3 22.9  
100 10.4 9.4 14.0

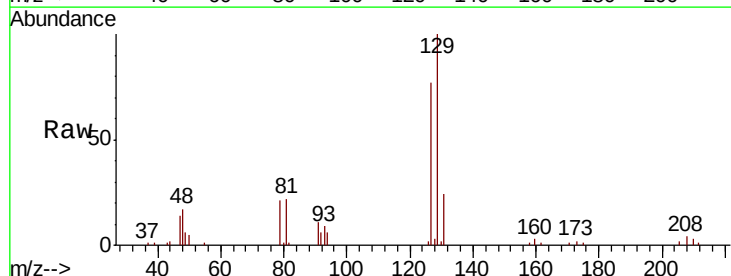


Abundance Ion 43.05 (42.75 to 43.75): VU0  
Ion 58.05 (57.75 to 58.75): VU0  
Ion 57.20 (56.90 to 57.90): VU0  
Ion 100.15 (99.85 to 100.85): VU0

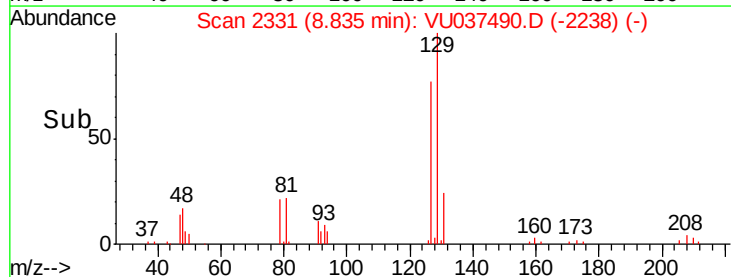
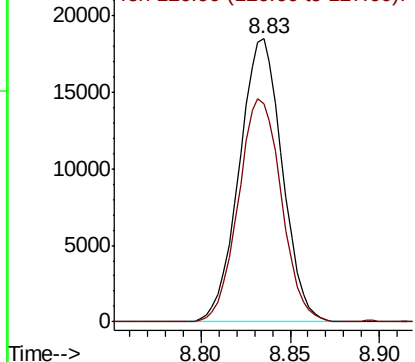


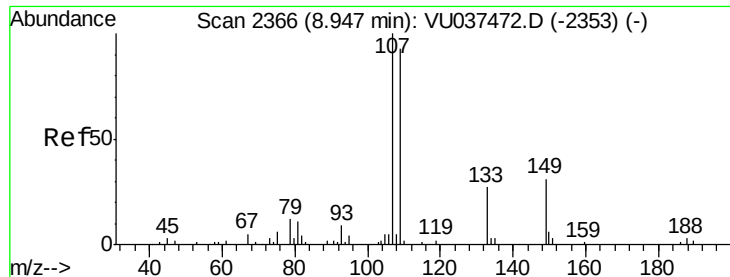
#49  
Dibromochloromethane  
Concen: 4.592 ug/L  
RT: 8.83 min Scan# 2331  
Delta R.T. -0.00 min  
Lab File: VU037490.D  
Acq: 31 Mar 2020 04:51

Tgt Ion: 129 Resp: 31008  
Ion Ratio Lower Upper  
129 100  
127 76.9 53.5 99.3



Abundance Ion 128.95 (128.65 to 129.65): V  
Ion 126.90 (126.60 to 127.60): V

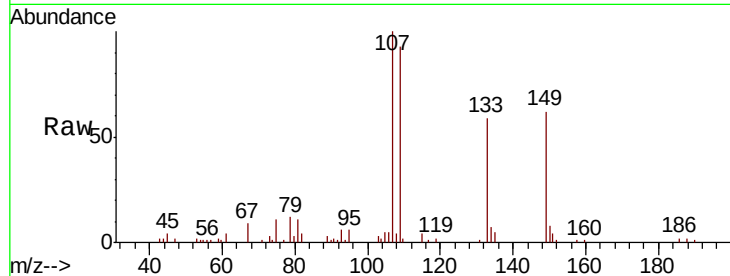




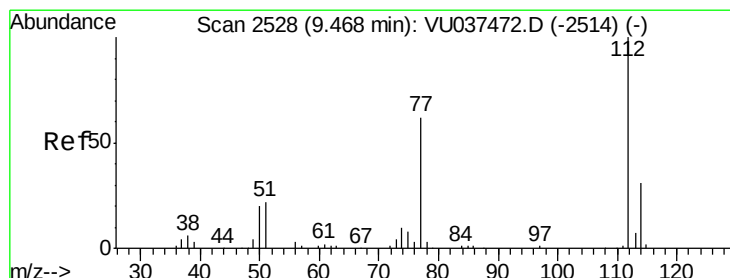
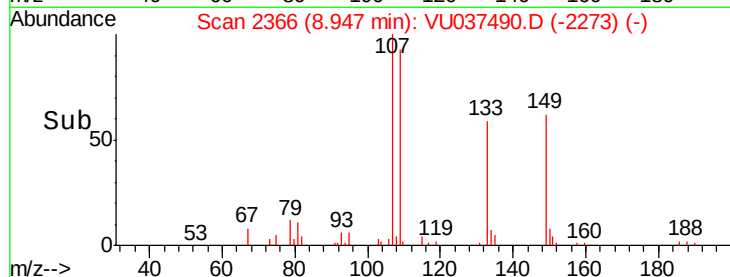
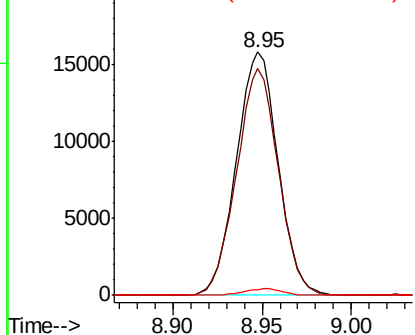
#50  
1,2-Dibromoethane  
Concen: 4.850 ug/L  
RT: 8.95 min Scan# 2366  
Delta R.T. -0.00 min  
Lab File: VU037490.D  
Acq: 31 Mar 2020 04:51

Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion:107 Resp: 25756  
Ion Ratio Lower Upper  
107 100  
109 93.0 64.8 120.4  
188 2.2 2.6 4.0#

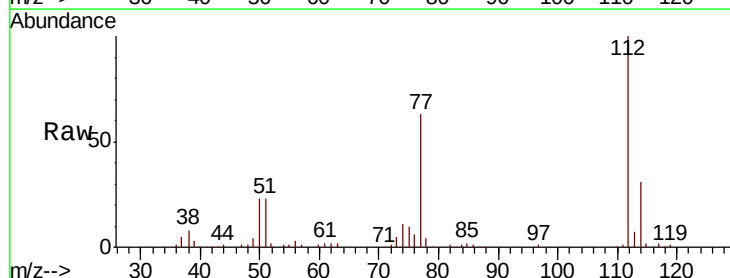


Abundance Ion 106.95 (106.65 to 107.65): V  
Ion 109.00 (108.70 to 109.70): V  
Ion 187.90 (187.60 to 188.60): V

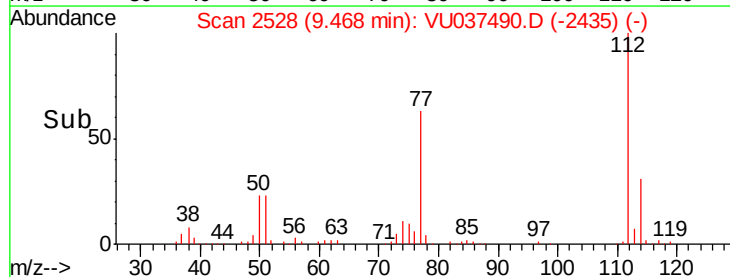
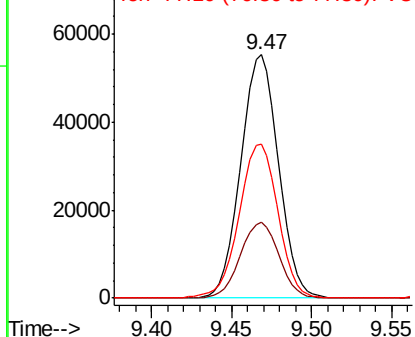


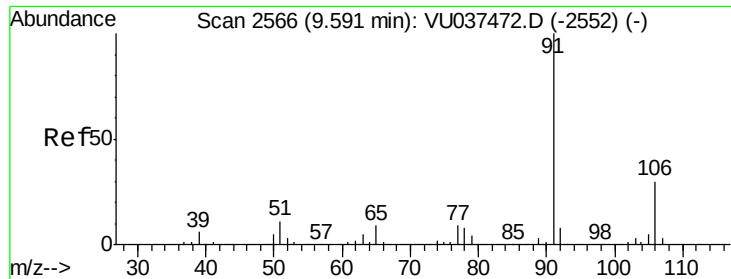
#51  
Chlorobenzene  
Concen: 4.220 ug/L  
RT: 9.47 min Scan# 2528  
Delta R.T. 0.00 min  
Lab File: VU037490.D  
Acq: 31 Mar 2020 04:51

Tgt Ion:112 Resp: 88910  
Ion Ratio Lower Upper  
112 100  
114 30.9 22.4 41.6  
77 63.2 50.5 75.7



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): VU





#52

Ethylbenzene

Concen: 4.768 ug/L

RT: 9.59 min Scan# 2566

Delta R.T. 0.00 min

Lab File: VU037490.D

Acq: 31 Mar 2020 04:51

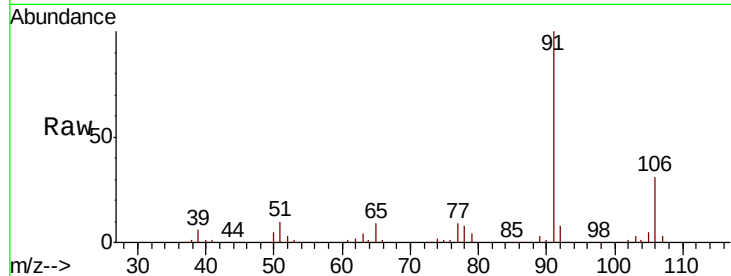
Instrument :  
MSVOA\_U  
ClientSampled :

Tot Ion: 91 Resp: 166883

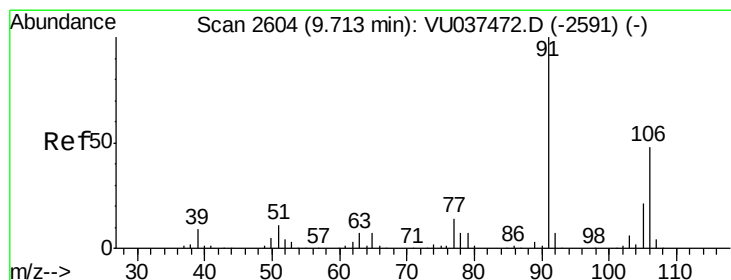
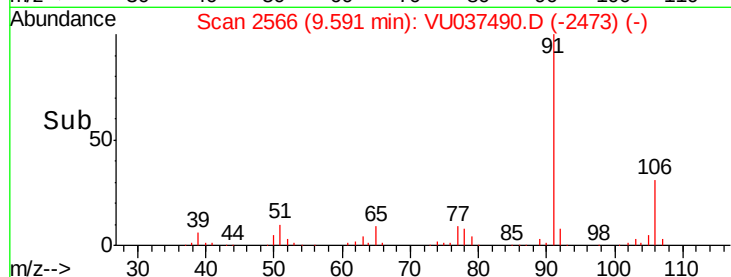
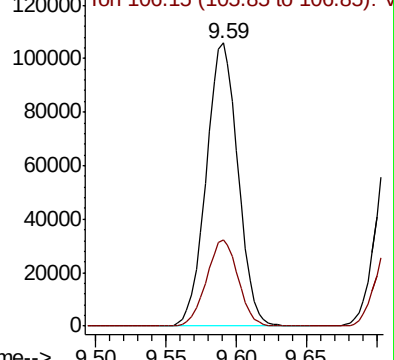
Ion Ratio Lower Upper

91 100

106 30.7 21.3 39.6



Abundance Ion 91.15 (90.85 to 91.85): VU037472.D (-2552) (-)



#53

m,p-Xylene

Concen: 4.617 ug/L

RT: 9.71 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VU037490.D

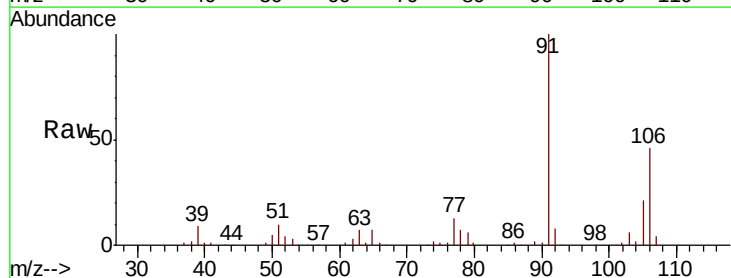
Acq: 31 Mar 2020 04:51

Tgt Ion: 106 Resp: 61053

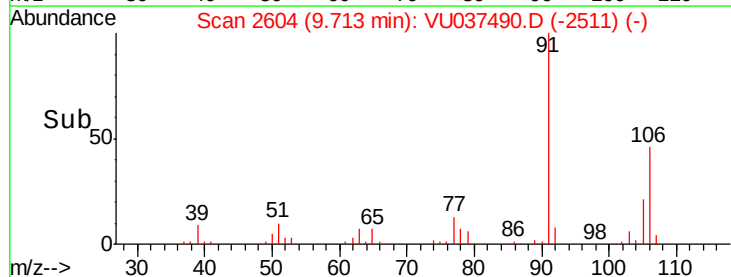
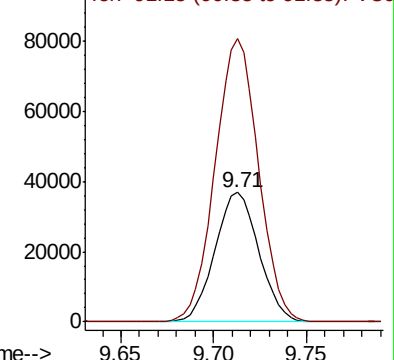
Ion Ratio Lower Upper

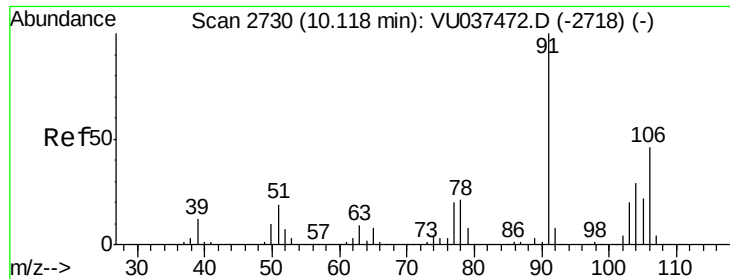
106 100

91 218.9 147.3 273.6



Abundance Ion 106.15 (105.85 to 106.85): VU037472.D (-2591) (-)





#54

o-Xylene

Concen: 4.681 ug/L

RT: 10.12 min Scan# 2730

Delta R.T. 0.00 min

Lab File: VU037490.D

Acq: 31 Mar 2020 04:51

Instrument :

MSVOA\_U

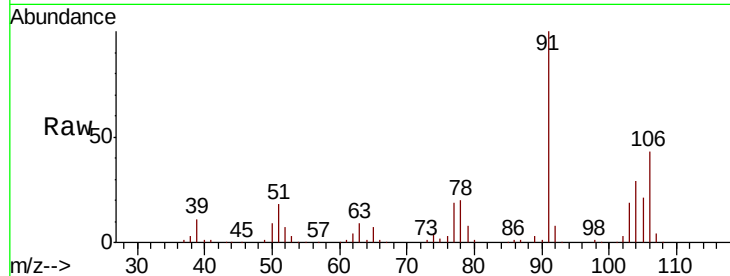
ClientSampled :

Tot Ion:106 Resp: 60413

Ion Ratio Lower Upper

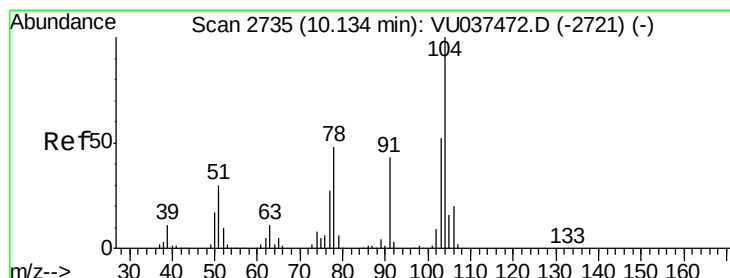
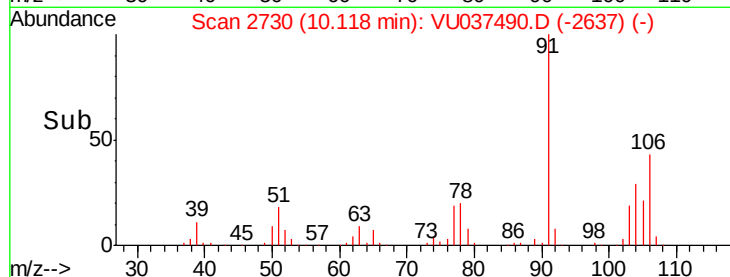
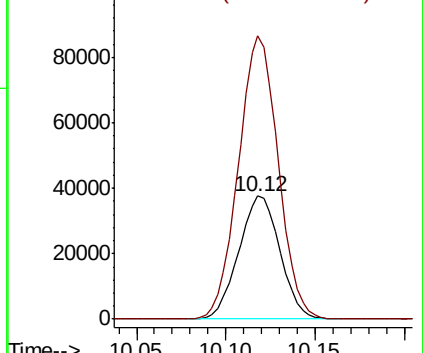
106 100

91 230.4 157.7 292.9



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#55

Styrene

Concen: 4.731 ug/L

RT: 10.13 min Scan# 2735

Delta R.T. -0.00 min

Lab File: VU037490.D

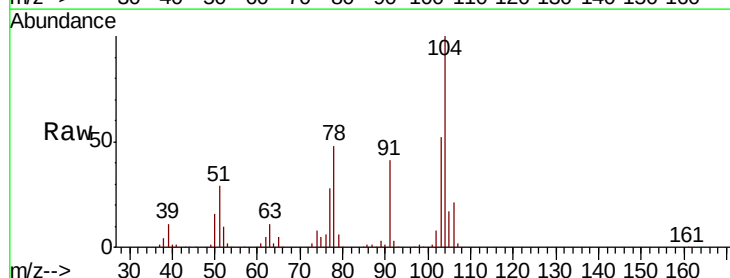
Acq: 31 Mar 2020 04:51

Tgt Ion:104 Resp: 104336

Ion Ratio Lower Upper

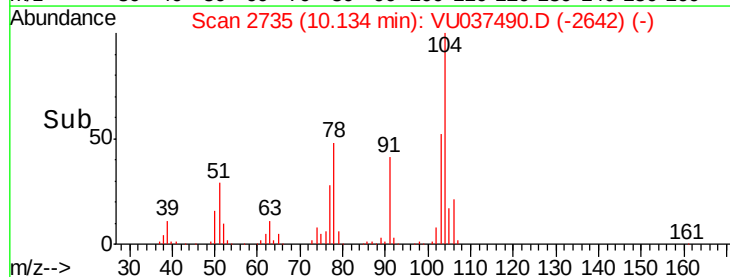
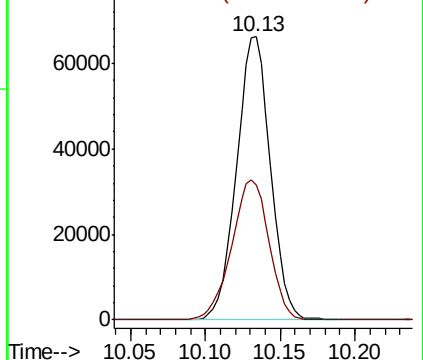
104 100

78 47.6 35.8 66.6

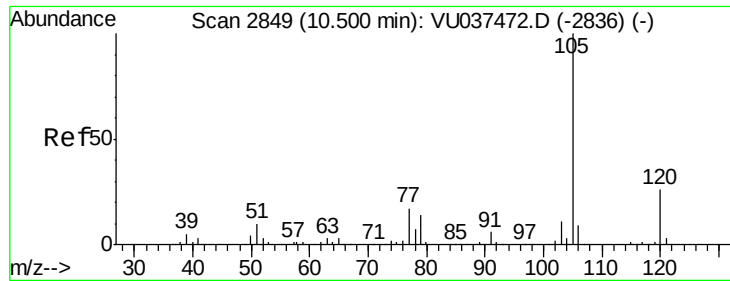


Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0







#56

Isopropylbenzene

Concen: 4.710 ug/L

RT: 10.50 min Scan# 2849

Delta R.T. 0.00 min

Lab File: VU037490.D

Acq: 31 Mar 2020 04:51

Instrument :

MSVOA\_U

ClientSampled :

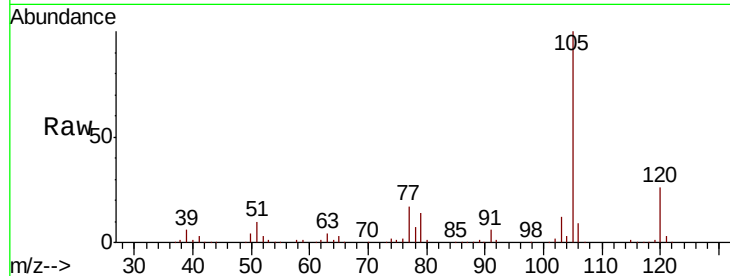
Tot Ion:105 Resp: 161941

Ion Ratio Lower Upper

105 100

120 26.2 21.0 31.4

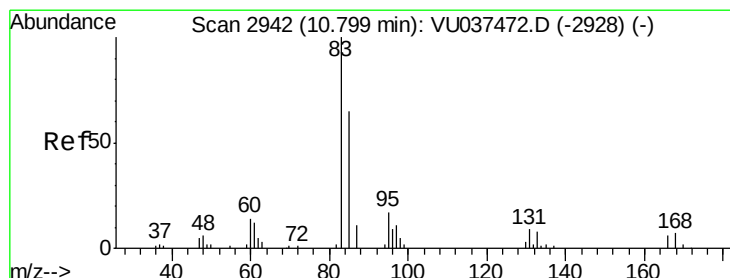
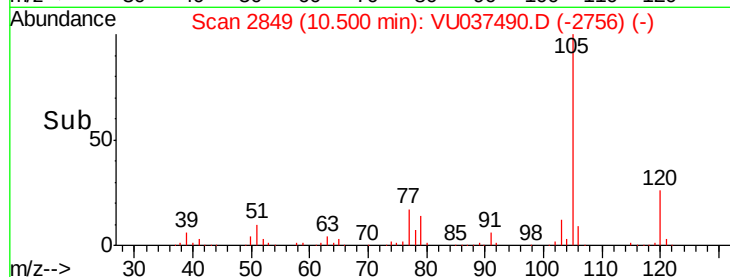
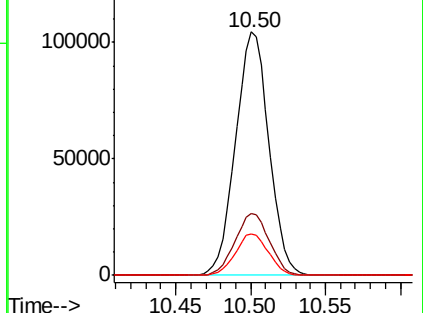
77 16.9 13.4 20.0



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 4.785 ug/L

RT: 10.80 min Scan# 2942

Delta R.T. -0.00 min

Lab File: VU037490.D

Acq: 31 Mar 2020 04:51

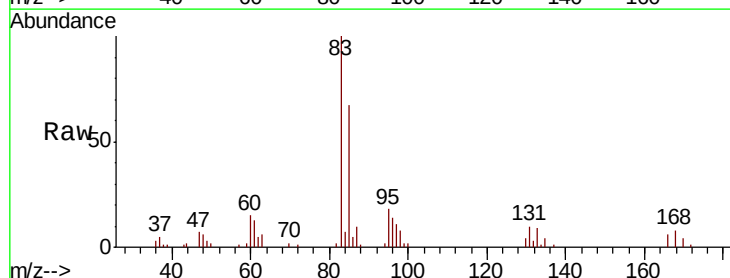
Tgt Ion: 83 Resp: 33419

Ion Ratio Lower Upper

83 100

85 66.8 42.9 79.7

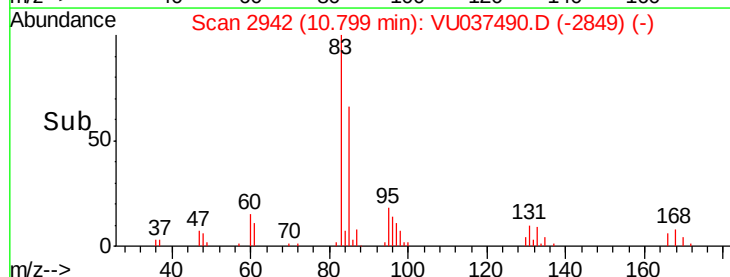
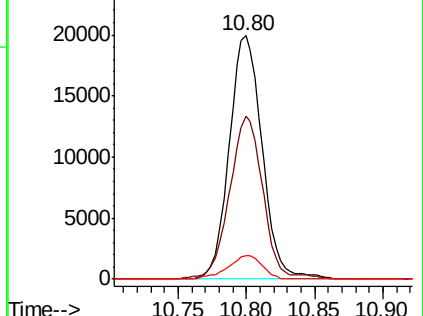
131 9.7 8.1 12.1

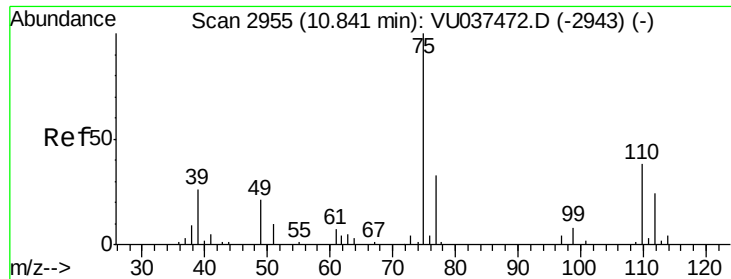


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V

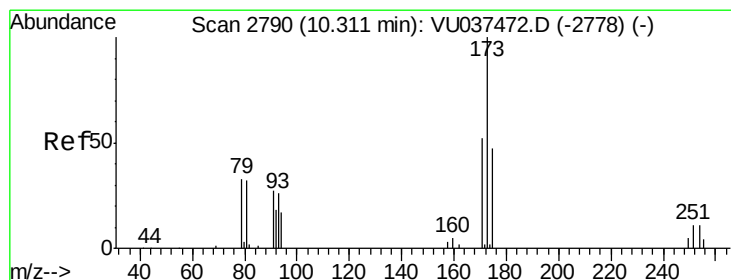
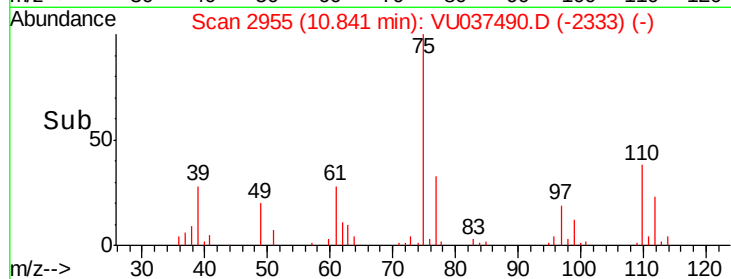
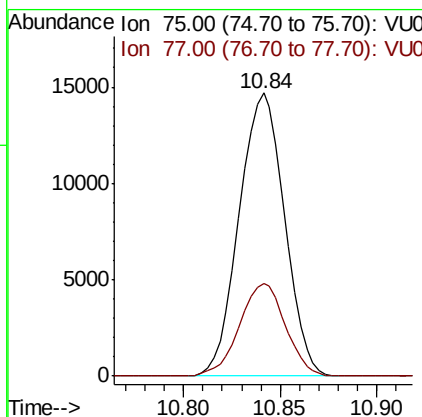
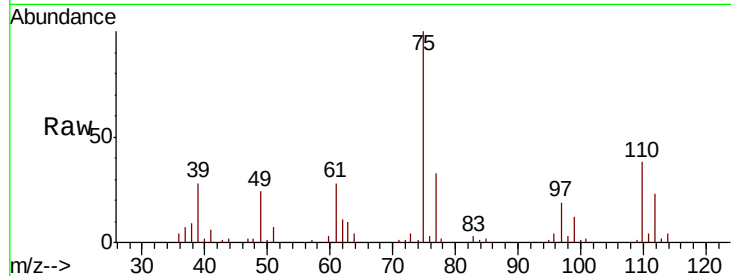




#59  
 1,2,3-Trichloropropane  
 Concen: 4.703 ug/L  
 RT: 10.84 min Scan# 2955  
 Delta R.T. -0.00 min  
 Lab File: VU037490.D  
 Acq: 31 Mar 2020 04:51

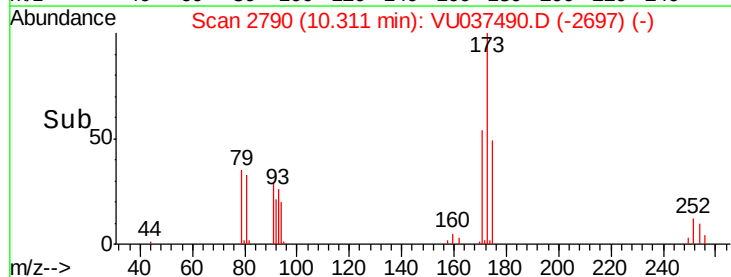
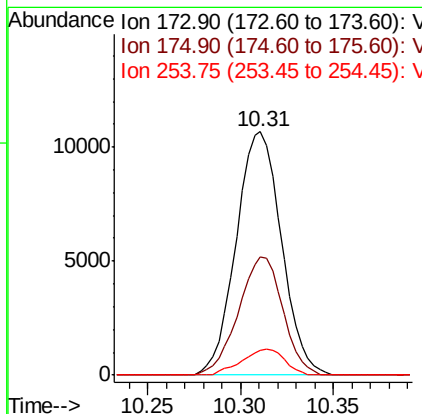
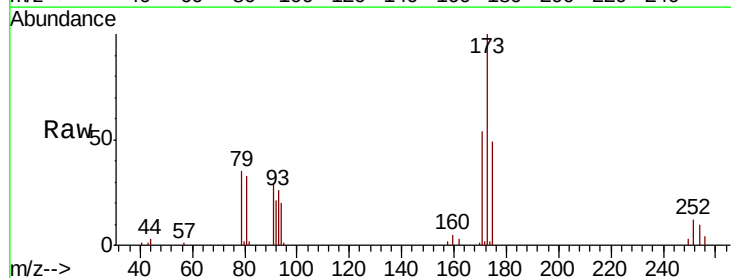
Instrument :  
 MSVOA\_U  
 ClientSampleId :

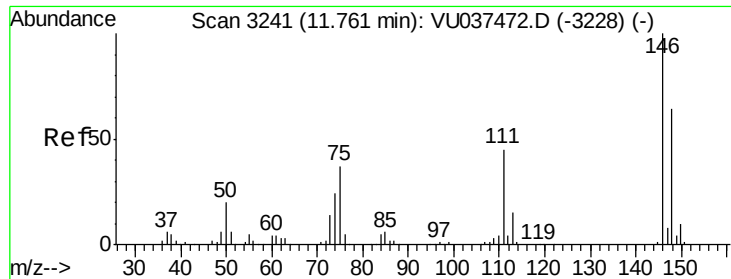
Tot Ion: 75 Resp: 23930  
 Ion Ratio Lower Upper  
 75 100  
 77 33.1 27.4 41.2



#61  
 Bromoform  
 Concen: 4.618 ug/L  
 RT: 10.31 min Scan# 2790  
 Delta R.T. 0.00 min  
 Lab File: VU037490.D  
 Acq: 31 Mar 2020 04:51

Tgt Ion:173 Resp: 18154  
 Ion Ratio Lower Upper  
 173 100  
 175 47.5 40.2 60.4  
 254 10.0 11.4 17.2#

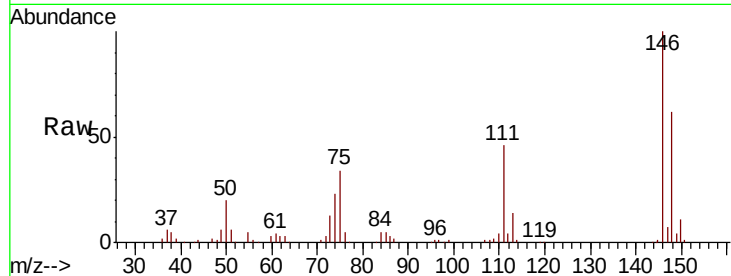




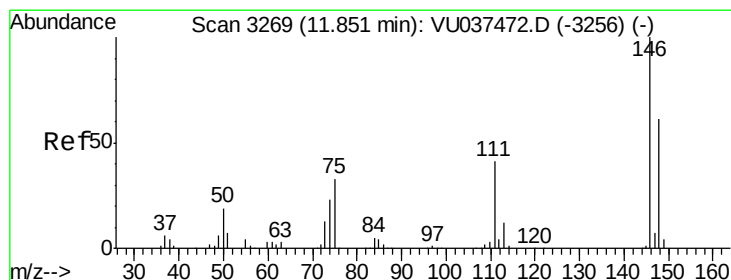
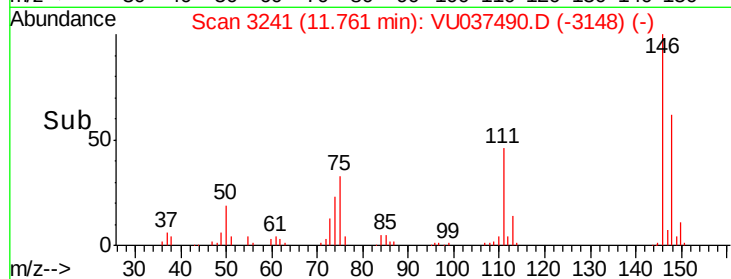
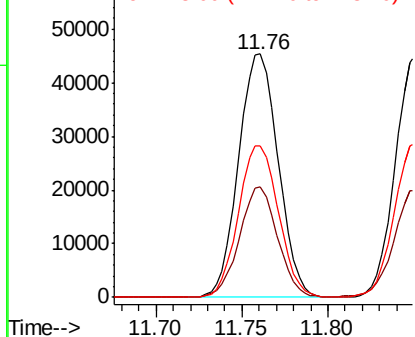
#62  
 1,3-Dichlorobenzene  
 Concen: 4.779 ug/L  
 RT: 11.76 min Scan# 3241  
 Delta R.T. 0.00 min  
 Lab File: VU037490.D  
 Acq: 31 Mar 2020 04:51

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Tot Ion:146 Resp: 72696  
 Ion Ratio Lower Upper  
 146 100  
 111 45.6 29.4 54.6  
 148 62.2 46.1 85.5

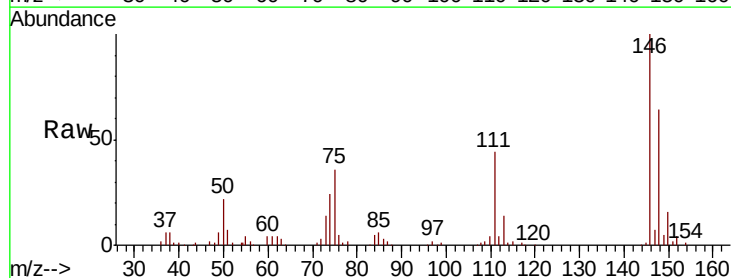


Abundance Ion 145.95 (145.65 to 146.65): V  
 Ion 111.00 (110.70 to 111.70): V  
 Ion 148.00 (147.70 to 148.70): V

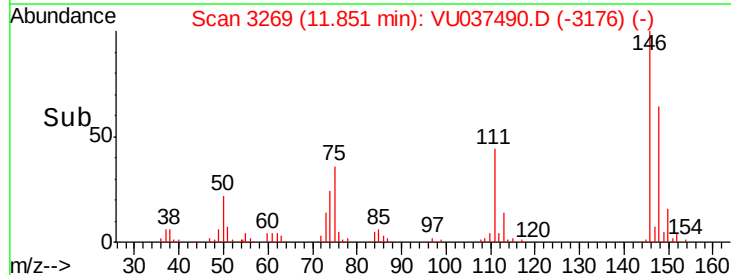
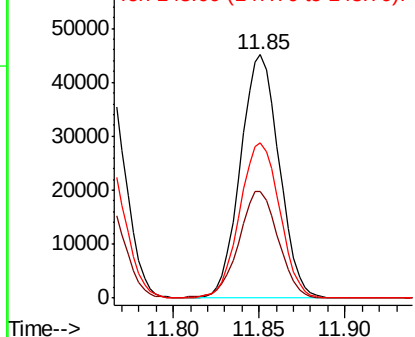


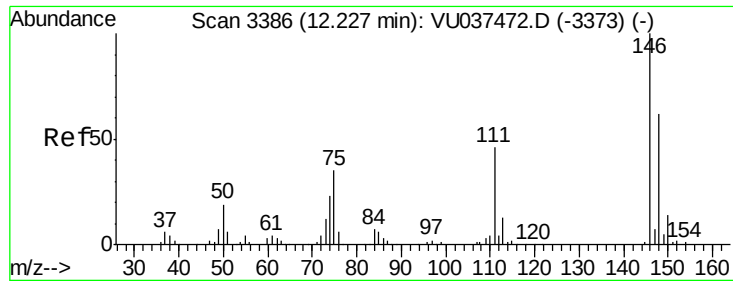
#63  
 1,4-Dichlorobenzene  
 Concen: 4.322 ug/L  
 RT: 11.85 min Scan# 3269  
 Delta R.T. -0.00 min  
 Lab File: VU037490.D  
 Acq: 31 Mar 2020 04:51

Tgt Ion:146 Resp: 70197  
 Ion Ratio Lower Upper  
 146 100  
 111 44.1 28.8 53.6  
 148 63.7 44.5 82.7



Abundance Ion 145.95 (145.65 to 146.65): V  
 Ion 111.00 (110.70 to 111.70): V  
 Ion 148.00 (147.70 to 148.70): V

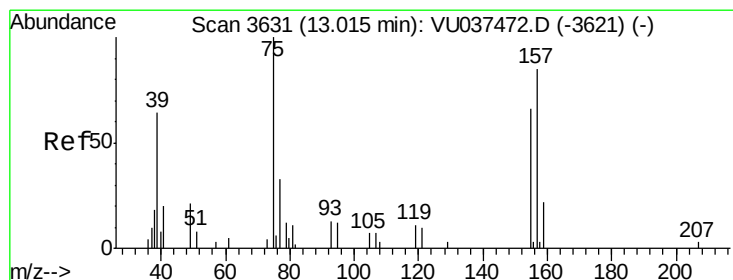
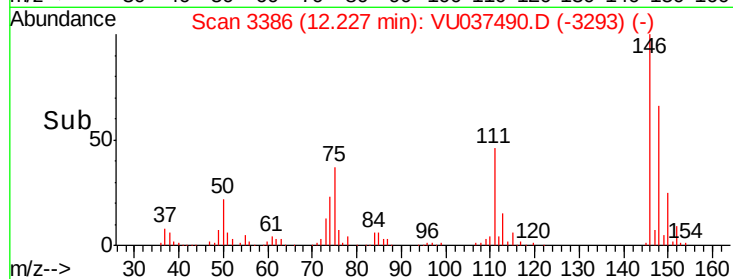
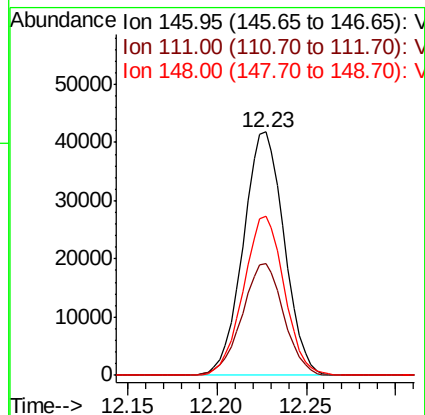
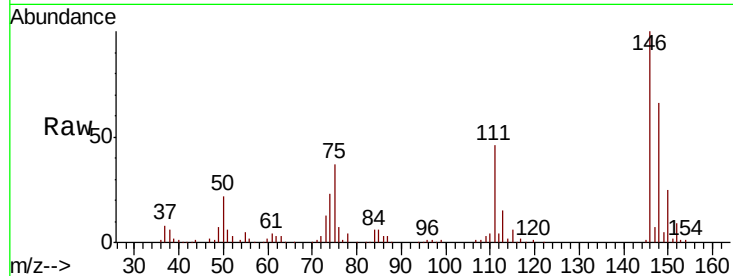




#65  
 1,2-Dichlorobenzene  
 Concen: 4.558 ug/L  
 RT: 12.23 min Scan# 3386  
 Delta R.T. 0.00 min  
 Lab File: VU037490.D  
 Acq: 31 Mar 2020 04:51

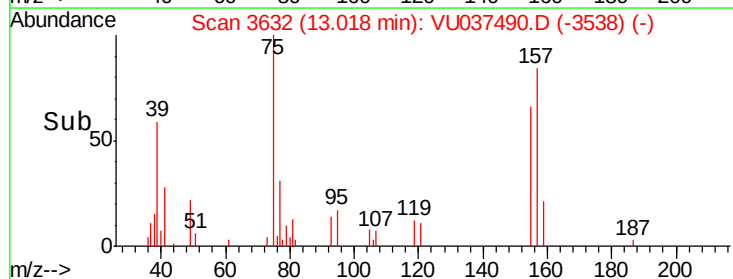
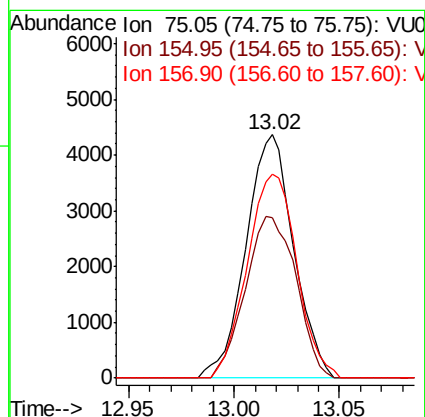
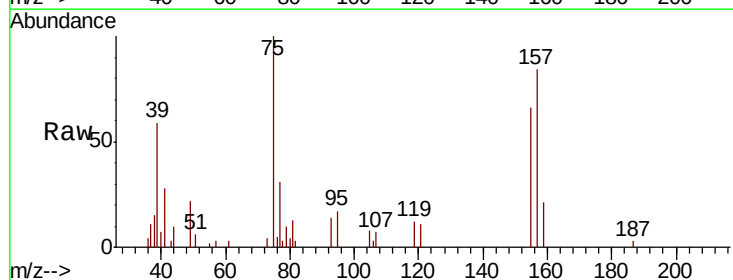
Instrument :  
 MSVOA\_U  
 ClientSampled :

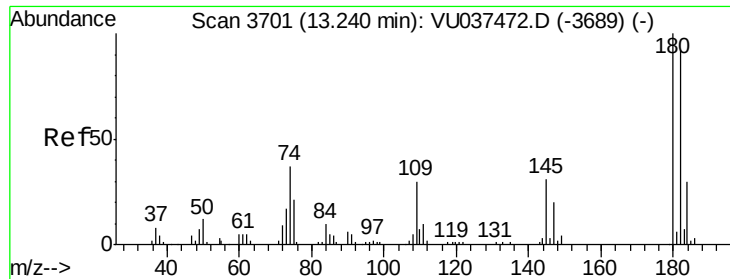
Tot Ion:146 Resp: 66931  
 Ion Ratio Lower Upper  
 146 100  
 111 46.0 36.2 54.2  
 148 65.6 52.1 78.1



#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 5.310 ug/L  
 RT: 13.02 min Scan# 3632  
 Delta R.T. 0.00 min  
 Lab File: VU037490.D  
 Acq: 31 Mar 2020 04:51

Tgt Ion: 75 Resp: 6860  
 Ion Ratio Lower Upper  
 75 100  
 155 66.0 56.0 84.0  
 157 83.8 78.3 117.5

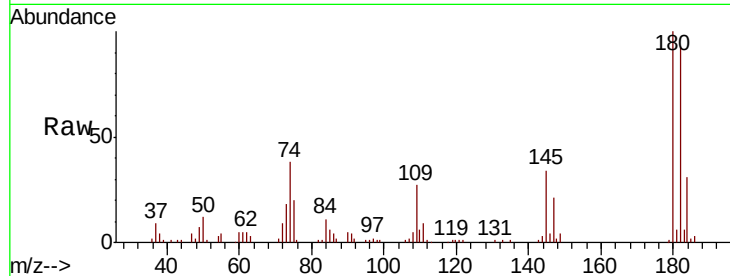




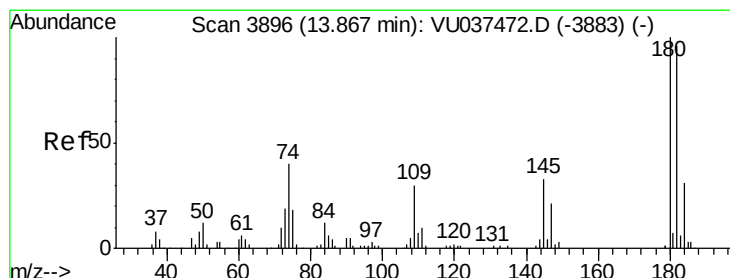
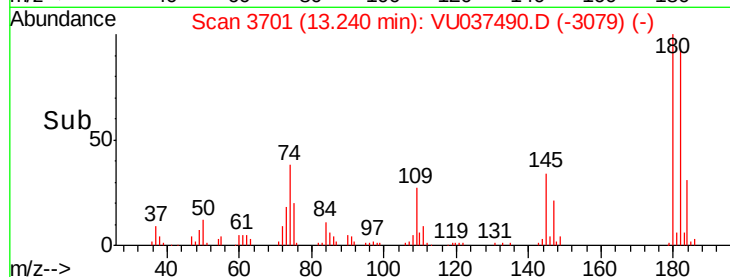
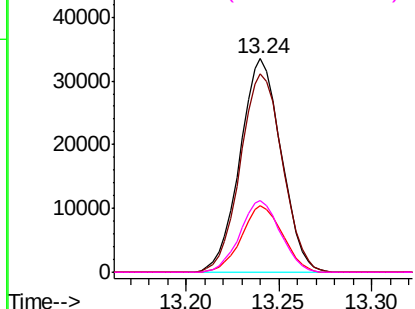
#67  
 1,3,5-Trichlorobenzene  
 Concen: 4.387 ug/L  
 RT: 13.24 min Scan# 3701  
 Delta R.T. -0.00 min  
 Lab File: VU037490.D  
 Acq: 31 Mar 2020 04:51

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Tot Ion:180 Resp: 51748  
 Ion Ratio Lower Upper  
 180 100  
 182 94.7 77.7 116.5  
 184 30.8 24.6 36.8  
 145 32.8 25.7 38.5

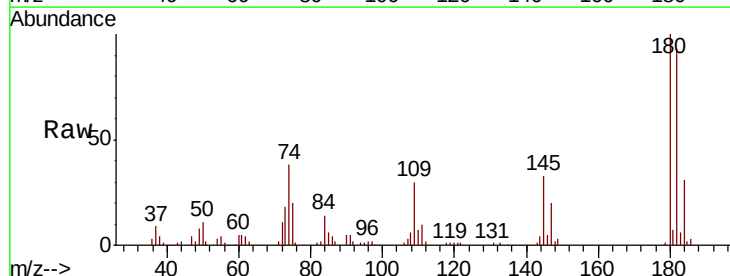


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

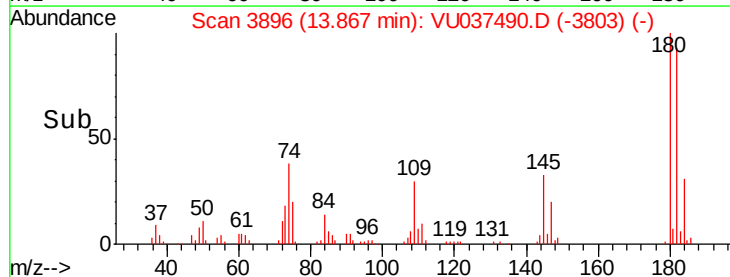
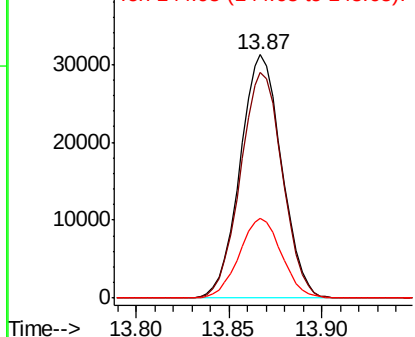


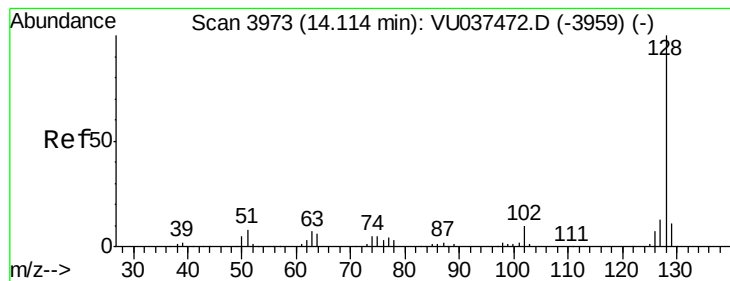
#68  
 1,2,4-trichlorobenzene  
 Concen: 4.260 ug/L  
 RT: 13.87 min Scan# 3896  
 Delta R.T. -0.00 min  
 Lab File: VU037490.D  
 Acq: 31 Mar 2020 04:51

Tgt Ion:180 Resp: 48442  
 Ion Ratio Lower Upper  
 180 100  
 182 93.8 75.8 113.6  
 145 33.4 25.5 38.3



Abundance Ion 179.90 (179.60 to 180.60): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 4.866 ug/L

RT: 14.11 min Scan# 3973

Delta R.T. 0.00 min

Lab File: VU037490.D

Acq: 31 Mar 2020 04:51

Instrument :

MSVOA\_U

ClientSampleId :

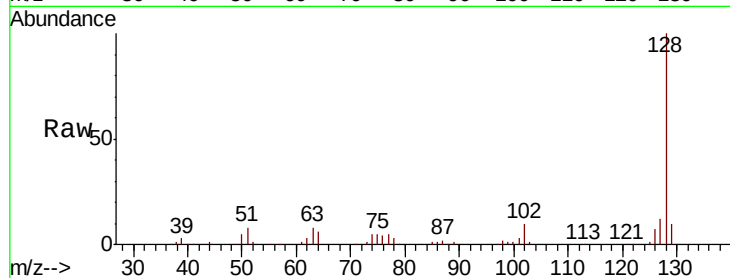
Tot Ion:128 Resp: 107409

Ion Ratio Lower Upper

128 100

129 10.5 8.9 13.3

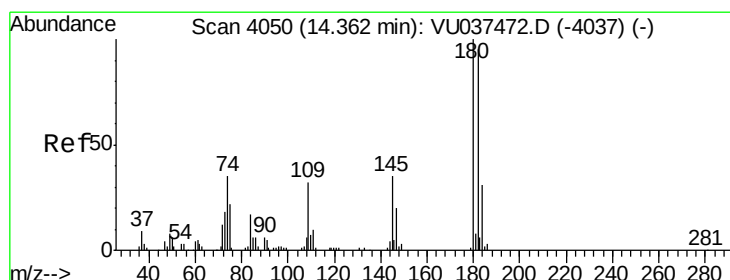
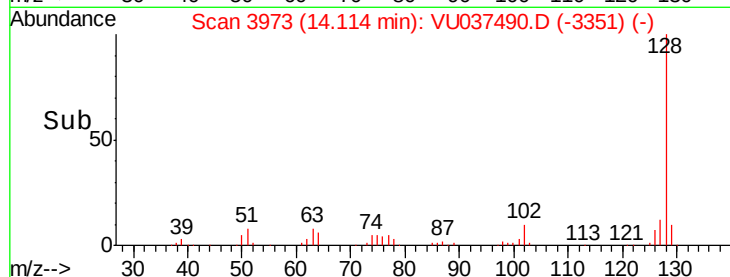
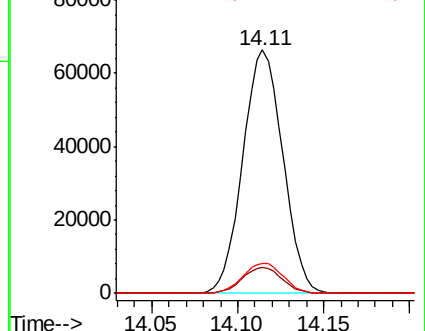
127 12.5 10.4 15.6



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 4.272 ug/L

RT: 14.36 min Scan# 4050

Delta R.T. 0.00 min

Lab File: VU037490.D

Acq: 31 Mar 2020 04:51

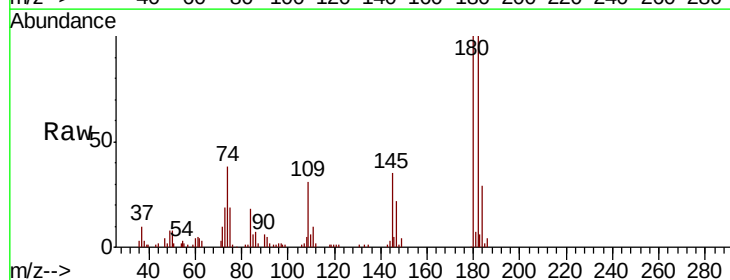
Tgt Ion:180 Resp: 43684

Ion Ratio Lower Upper

180 100

182 95.8 77.8 116.8

145 35.6 27.8 41.8



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

