

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U072920\  
 Data File : VU039695.D  
 Acq On : 29 Jul 2020 10:40  
 Operator : SY/MD  
 Sample : VSTDIC0.5  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC0.5

Quant Time: Jul 30 01:19:00 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U072920DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Thu Jul 30 01:17:29 2020  
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
| 1) Fluorobenzene   | 6.12 | 96   | 22895    | 1.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                            |       |     |          |      |        |      |
|----------------------------|-------|-----|----------|------|--------|------|
| 57) 4-Bromofluorobenzene   | 10.63 | 95  | 8116     | 0.91 | ug/l   | 0.00 |
| Spiked Amount 1.000        |       |     | Recovery | =    | 91.00% |      |
| 68) 1,2-Dichlorobenzene-d4 | 12.19 | 152 | 6985     | 0.80 | ug/l   | 0.00 |
| Spiked Amount 1.000        |       |     | Recovery | =    | 80.00% |      |

## Target Compounds

|                               |      |     |       |              | Ovalue |
|-------------------------------|------|-----|-------|--------------|--------|
| 2) Dichlorodifluoromethane    | 1.39 | 85  | 3361  | 0.430 ug/l   | 85     |
| 3) Chloromethane              | 1.53 | 50  | 4489  | 0.482 ug/l   | 97     |
| 4) Vinyl Chloride             | 1.61 | 62  | 4151  | 0.455 ug/l   | 98     |
| 5) Bromomethane               | 1.86 | 94  | 3309  | 0.585 ug/l   | 99     |
| 6) Chloroethane               | 1.94 | 64  | 3704  | 0.666 ug/l   | 90     |
| 7) Trichlorofluoromethane     | 2.15 | 101 | 5312  | 0.535 ug/l   | 90     |
| 8) 1,1,2-Trichloro-1,2,2-trif | 2.59 | 101 | 2896  | 0.475 ug/l   | 99     |
| 9) 1,1-Dichloroethene         | 2.59 | 96  | 2828  | 0.467 ug/l   | 98     |
| 10) Iodomethane               | 2.74 | 142 | 2209  | 0.549 ug/l   | 100    |
| 11) Allyl Chloride            | 2.93 | 41  | 5874  | 0.512 ug/l   | 98     |
| 12) Acrylonitrile             | 3.34 | 53  | 2137  | 1.242 ug/l   | 89     |
| 13) Acetone                   | 2.65 | 43  | 5685  | 3.992 ug/l   | 96     |
| 14) Carbon Disulfide          | 2.81 | 76  | 10184 | 0.461 ug/l   | 96     |
| 15) Methylene Chloride        | 3.06 | 84  | 5260  | 0.626 ug/l   | 94     |
| 16) trans-1,2-Dichloroethene  | 3.37 | 96  | 3119  | 0.470 ug/l   | 89     |
| 17) 1,1-Dichloroethane        | 3.89 | 63  | 6806  | 0.525 ug/l   | 96     |
| 18) 2-Butanone                | 4.75 | 43  | 9049  | 4.119 ug/l   | 99     |
| 19) Cyclohexane               | 5.40 | 56  | 6149  | 0.493 ug/l   | 94     |
| 20) Methylcyclohexane         | 6.77 | 83  | 4837  | 0.410 ug/l   | 95     |
| 21) 2,2-Dichloropropane       | 4.69 | 77  | 6405  | 0.598 ug/l # | 72     |
| 22) cis-1,2-Dichloroethene    | 4.69 | 96  | 3347  | 0.476 ug/l   | 88     |
| 23) Diethyl Ether             | 2.39 | 59  | 2781  | 0.512 ug/l   | 95     |
| 24) tert-Butyl Alcohol        | 3.22 | 59  | 4155  | 6.716 ug/l # | 83     |
| 25) Methyl tert-Butyl Ether   | 3.39 | 73  | 8823  | 0.515 ug/l   | 94     |
| 26) Bromochloromethane        | 4.99 | 128 | 1609  | 0.567 ug/l   | 80     |
| 27) Chloroform                | 5.11 | 83  | 6602  | 0.545 ug/l   | 96     |
| 28) 1,1,1-Trichloroethane     | 5.34 | 97  | 5182  | 0.521 ug/l   | 99     |
| 29) 1,1-Dichloropropene       | 5.54 | 75  | 5073  | 0.512 ug/l   | 97     |
| 30) Carbon Tetrachloride      | 5.54 | 117 | 4205  | 0.508 ug/l   | 93     |
| 31) Isopropyl Ether           | 4.02 | 45  | 12195 | 0.561 ug/l   | 94     |
| 32) Ethyl-t-butyl ether       | 4.53 | 59  | 10644 | 0.550 ug/l   | 98     |
| 33) Tert-Amyl methyl ether    | 5.96 | 73  | 8649  | 0.533 ug/l   | 97     |
| 34) Propionitrile             | 4.82 | 54  | 1714  | 2.808 ug/l # | 83     |
| 35) Benzene                   | 5.79 | 78  | 13687 | 0.503 ug/l   | 95     |
| 36) 1,2-Dichloroethane        | 5.82 | 62  | 5354  | 0.636 ug/l   | 98     |
| 37) Trichloroethene           | 6.55 | 130 | 2896  | 0.411 ug/l   | 95     |
| 38) 1,2-Dichloropropane       | 6.80 | 63  | 3345  | 0.450 ug/l   | 97     |
| 39) Methacrylonitrile         | 5.00 | 41  | 2054  | 0.713 ug/l # | 86     |
| 40) Methyl acrylate           | 4.88 | 55  | 2630  | 0.628 ug/l # | 86     |
| 41) Tetrahydrofuran           | 5.10 | 42  | 2552  | 1.762 ug/l # | 83     |
| 42) 1-Chlorobutane            | 5.47 | 56  | 7439  | 0.512 ug/l   | 99     |

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 Sample : VSTDIC0.5  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

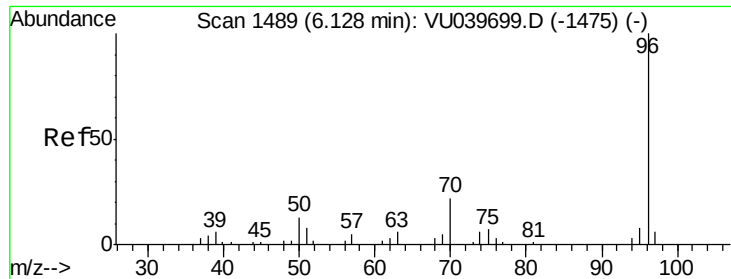
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC0.5

Quant Time: Jul 30 01:19:00 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U072920DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Thu Jul 30 01:17:29 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 43) Dibromomethane             | 6.93  | 93   | 1726     | 0.490 | ug/l   | 97       |
| 44) Bromodichloromethane       | 7.12  | 83   | 3941     | 0.450 | ug/l   | 99       |
| 45) 4-Methyl-2-Pentanone       | 7.81  | 43   | 14428    | 2.908 | ug/l   | 92       |
| 46) t-1,4-Dichloro-2-butene    | 10.83 | 75   | 3581     | 2.362 | ug/l # | 46       |
| 47) Methyl methacrylate        | 6.98  | 69   | 3021     | 0.846 | ug/l   | 91       |
| 48) Ethyl methacrylate         | 8.34  | 69   | 2835     | 0.431 | ug/l   | 99       |
| 49) Toluene                    | 7.98  | 92   | 6870     | 0.400 | ug/l   | 97       |
| 50) t-1,3-Dichloropropene      | 8.22  | 75   | 3334     | 0.378 | ug/l   | 98       |
| 51) cis-1,3-Dichloropropene    | 7.62  | 75   | 4038     | 0.385 | ug/l   | 96       |
| 52) 1,1,2-Trichloroethane      | 8.41  | 97   | 2370     | 0.481 | ug/l   | 97       |
| 53) 1,3-Dichloropropane        | 8.58  | 76   | 4164     | 0.449 | ug/l   | 99       |
| 54) 2-Hexanone                 | 8.70  | 43   | 9988     | 2.839 | ug/l   | 92       |
| 55) Dibromochloromethane       | 8.82  | 129  | 2263     | 0.415 | ug/l   | 96       |
| 56) 1,2-Dibromoethane          | 8.93  | 107  | 2098     | 0.448 | ug/l   | 91       |
| 58) Tetrachloroethene          | 8.56  | 164  | 2301     | 0.356 | ug/l   | 97       |
| 59) Chlorobenzene              | 9.45  | 112  | 7336     | 0.404 | ug/l   | 99       |
| 60) 1,1,1,2-Tetrachloroethane  | 9.54  | 131  | 2358     | 0.422 | ug/l   | 95       |
| 61) Pentachloroethane          | 11.43 | 117  | 2068     | 0.478 | ug/l   | 84       |
| 62) Hexachloroethane           | 12.47 | 117  | 1683     | 0.379 | ug/l   | 92       |
| 63) Ethyl Benzene              | 9.57  | 91   | 11583    | 0.356 | ug/l   | 97       |
| 64) m/p-Xylenes                | 9.70  | 106  | 9259     | 0.737 | ug/l   | 93       |
| 65) o-Xylene                   | 10.10 | 106  | 4435     | 0.364 | ug/l   | 98       |
| 66) Styrene                    | 10.12 | 104  | 7027     | 0.347 | ug/l   | 97       |
| 67) Bromoform                  | 10.29 | 173  | 972      | 0.339 | ug/l # | 83       |
| 69) Isopropylbenzene           | 10.48 | 105  | 11621    | 0.365 | ug/l   | 100      |
| 70) 1,1,2,2-Tetrachloroethane  | 10.78 | 83   | 3235     | 0.500 | ug/l # | 91       |
| 71) 1,2,3-Trichloropropane     | 10.83 | 75   | 3581     | 0.733 | ug/l   | 84       |
| 72) Bromobenzene               | 10.78 | 156  | 2808     | 0.396 | ug/l   | 97       |
| 73) n-propylbenzene            | 10.91 | 120  | 3124     | 0.356 | ug/l   | 96       |
| 74) 2-Chlorotoluene            | 10.99 | 126  | 2760     | 0.375 | ug/l   | 96       |
| 75) 1,3,5-Trimethylbenzene     | 11.09 | 105  | 9446     | 0.353 | ug/l   | 98       |
| 76) 4-Chlorotoluene            | 11.10 | 126  | 2799     | 0.365 | ug/l   | 100      |
| 77) tert-Butylbenzene          | 11.42 | 119  | 9264     | 0.365 | ug/l   | 100      |
| 78) 1,2,4-Trimethylbenzene     | 11.47 | 105  | 9690     | 0.352 | ug/l   | 95       |
| 79) sec-Butylbenzene           | 11.64 | 105  | 12742    | 0.351 | ug/l   | 99       |
| 80) Nitrobenzene               | 13.20 | 77   | 95       | 0.540 | ug/l # | 44       |
| 81) p-Isopropyltoluene         | 11.79 | 119  | 10043    | 0.343 | ug/l   | 96       |
| 82) 1,3-Dichlorobenzene        | 11.74 | 146  | 6005     | 0.406 | ug/l   | 99       |
| 83) 1,4-Dichlorobenzene        | 11.83 | 146  | 6004     | 0.401 | ug/l   | 97       |
| 84) n-Butylbenzene             | 12.20 | 91   | 10666    | 0.362 | ug/l   | 99       |
| 85) 1,2-Dichlorobenzene        | 12.21 | 146  | 5961     | 0.429 | ug/l   | 96       |
| 86) 1,2-Dibromo-3-Chloropropan | 12.99 | 75   | 438      | 0.416 | ug/l   | 86       |
| 87) 1,2,4-Trichlorobenzene     | 13.83 | 180  | 3434     | 0.345 | ug/l   | 91       |
| 88) Hexachlorobutadiene        | 14.01 | 225  | 1576     | 0.358 | ug/l   | 92       |
| 89) Naphthalene                | 14.08 | 128  | 7199     | 0.368 | ug/l   | 97       |
| 90) 1,2,3-Trichlorobenzene     | 14.32 | 180  | 3453     | 0.388 | ug/l   | 98       |

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





#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 6.12 min Scan# 1488

Delta R.T. -0.00 min

Lab File: VU039695.D

Acq: 29 Jul 2020 10:40

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC0.5

Tot Ion: 96 Resp: 22895

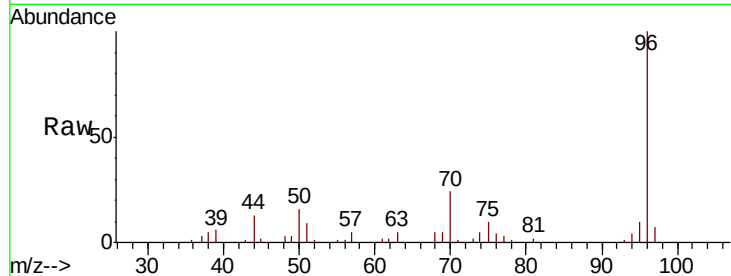
Ion Ratio Lower Upper

96 100

70 22.7 16.3 24.5

95 9.6 6.8 10.2

97 6.8 0.0 0.0#

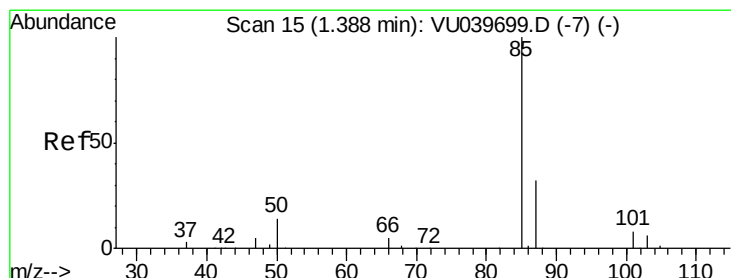
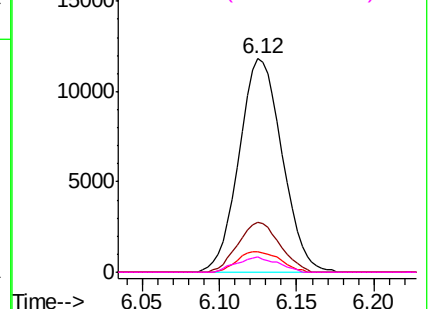
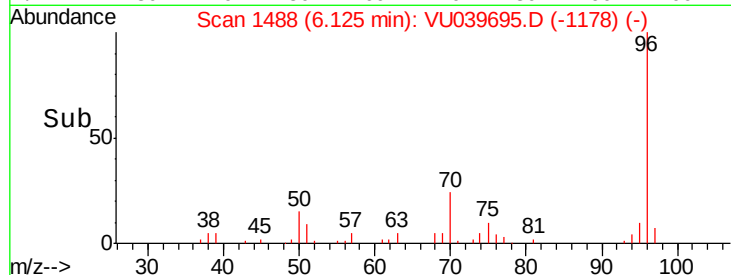


Abundance Ion 96.00 (95.70 to 96.70): VU039699.D (-1475) (-)

Ion 70.00 (69.70 to 70.70): VU039699.D (-1475) (-)

Ion 95.00 (94.70 to 95.70): VU039699.D (-1475) (-)

Ion 97.00 (96.70 to 97.70): VU039699.D (-1475) (-)



#2

Dichlorodifluoromethane

Concen: 0.430 ug/l

RT: 1.39 min Scan# 15

Delta R.T. 0.00 min

Lab File: VU039695.D

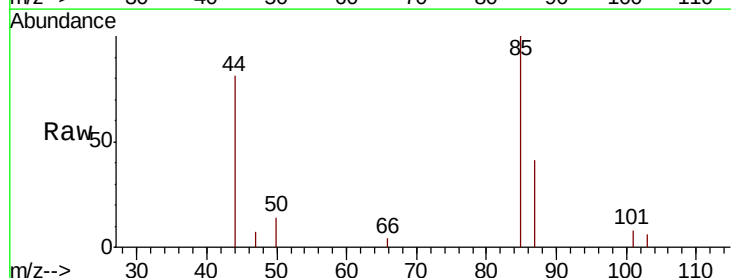
Acq: 29 Jul 2020 10:40

Tgt Ion: 85 Resp: 3361

Ion Ratio Lower Upper

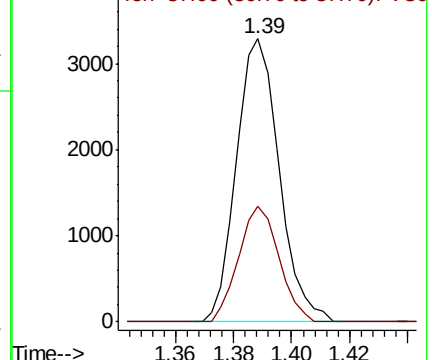
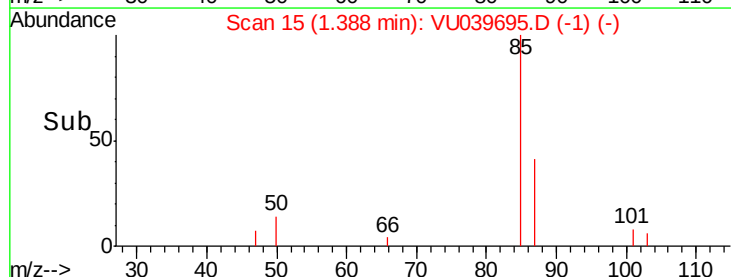
85 100

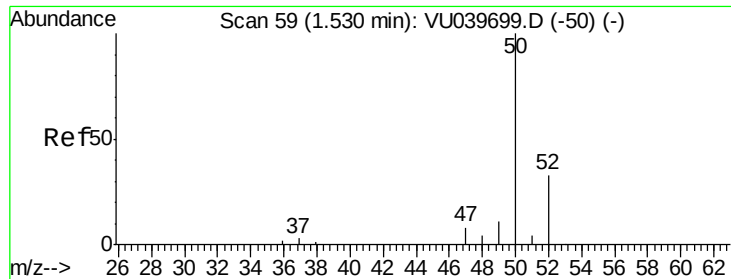
87 40.7 16.2 48.6



Abundance Ion 85.00 (84.70 to 85.70): VU039699.D (-7) (-)

Ion 87.00 (86.70 to 87.70): VU039699.D (-7) (-)





#3

Chloromethane

Concen: 0.482 ug/l

RT: 1.53 min Scan# 59

Delta R.T. 0.00 min

Lab File: VU039695.D

Acq: 29 Jul 2020 10:40

Instrument :

MSVOA\_U

ClientSampleId :

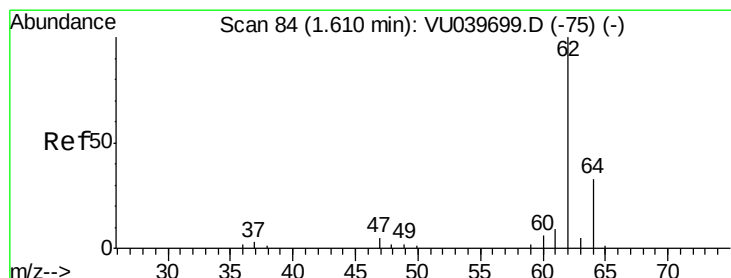
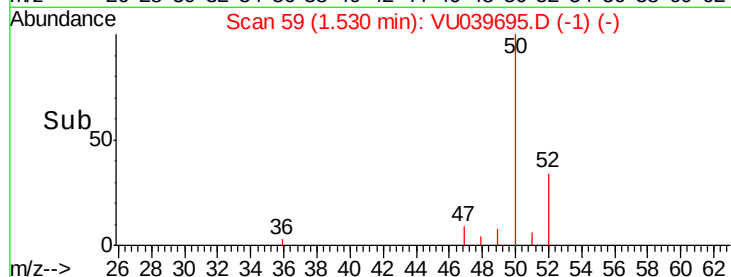
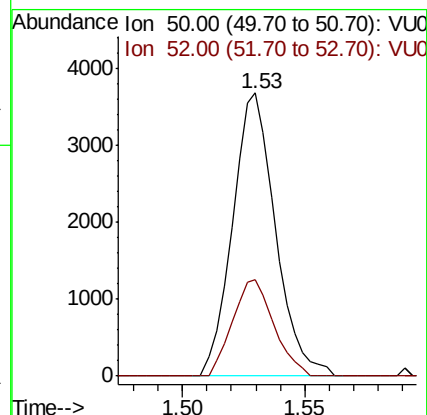
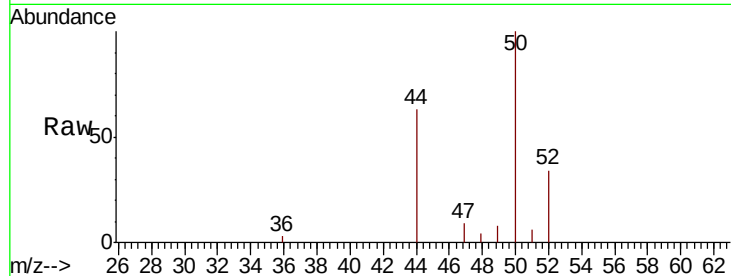
VSTDIC0.5

Tot Ion: 50 Resp: 4489

Ion Ratio Lower Upper

50 100

52 33.9 26.0 39.0



#4

Vinyl Chloride

Concen: 0.455 ug/l

RT: 1.61 min Scan# 83

Delta R.T. -0.00 min

Lab File: VU039695.D

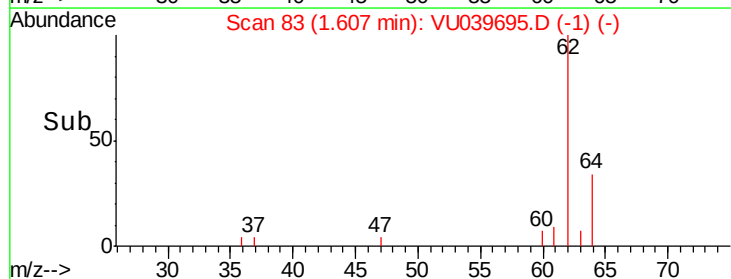
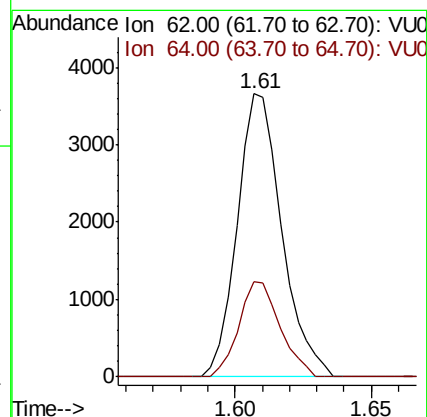
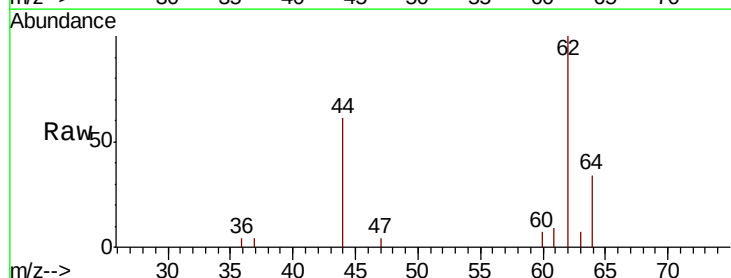
Acq: 29 Jul 2020 10:40

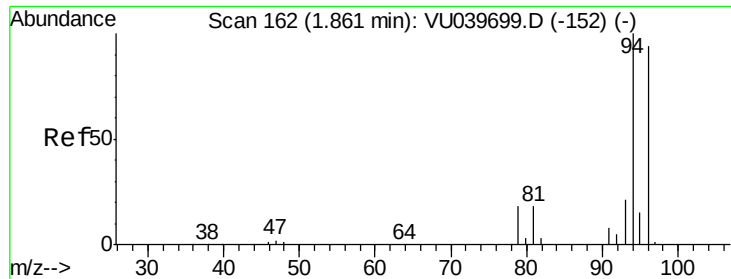
Tgt Ion: 62 Resp: 4151

Ion Ratio Lower Upper

62 100

64 33.7 26.0 39.0

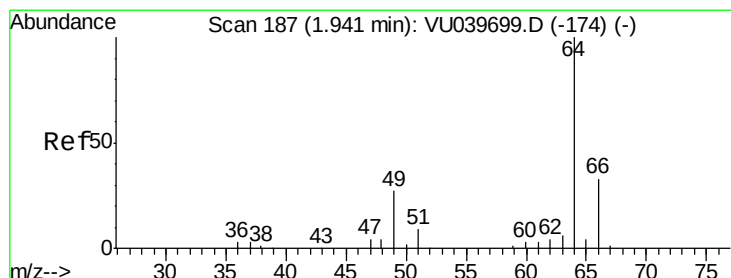
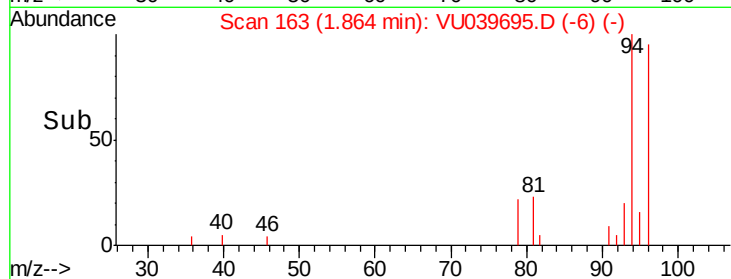
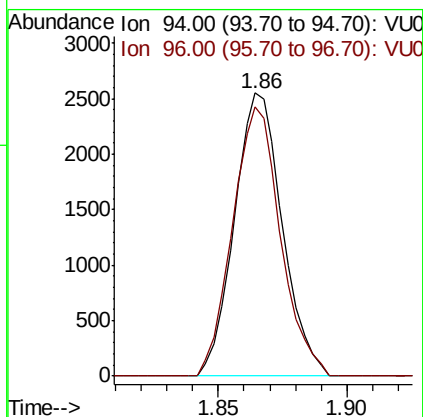
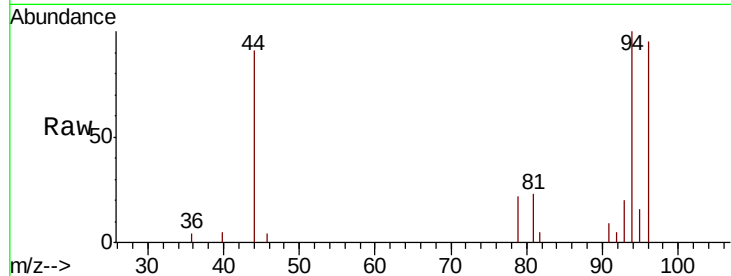




#5  
Bromomethane  
Concen: 0.585 ug/l  
RT: 1.86 min Scan# 163  
Delta R.T. 0.00 min  
Lab File: VU039695.D  
Acq: 29 Jul 2020 10:40

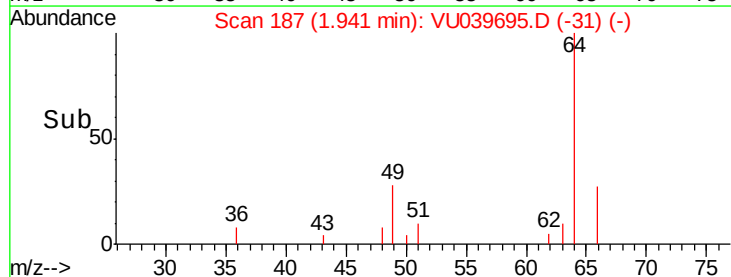
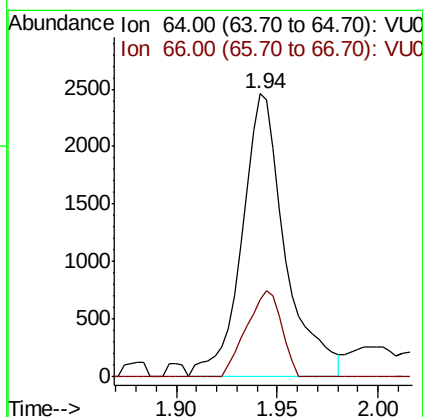
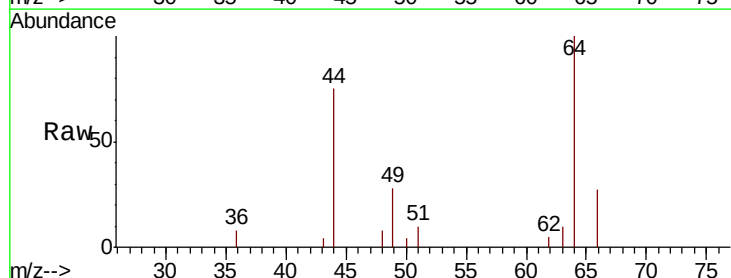
Instrument :  
MSVOA\_U  
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VSTDIC0.5

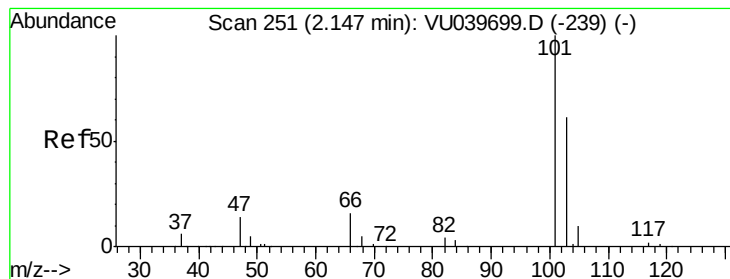
Tot Ion: 94 Resp: 3309  
Ion Ratio Lower Upper  
94 100  
96 95.1 75.0 112.6



#6  
Chloroethane  
Concen: 0.666 ug/l  
RT: 1.94 min Scan# 187  
Delta R.T. 0.00 min  
Lab File: VU039695.D  
Acq: 29 Jul 2020 10:40

Tgt Ion: 64 Resp: 3704  
Ion Ratio Lower Upper  
64 100  
66 27.3 26.2 39.2



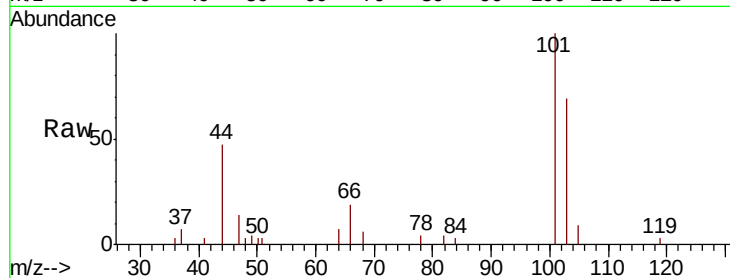


#7

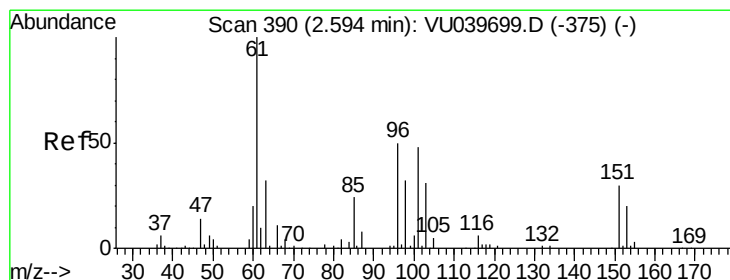
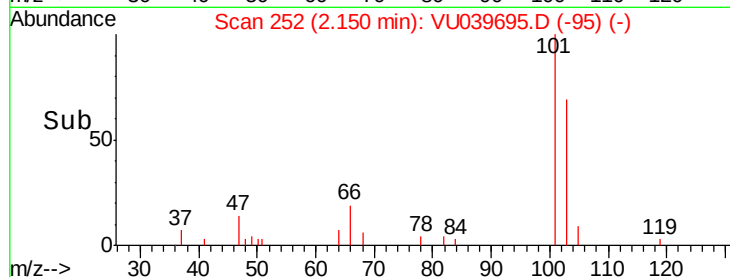
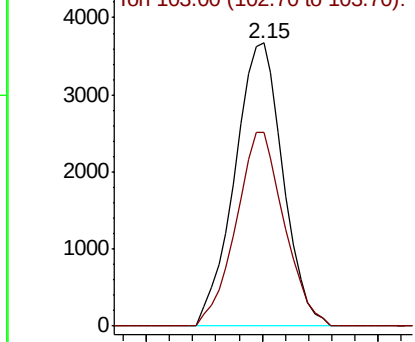
Trichlorofluoromethane  
Concen: 0.535 ug/l  
RT: 2.15 min Scan# 252  
Delta R.T. 0.00 min  
Lab File: VU039695.D  
Acq: 29 Jul 2020 10:40

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC0.5

Tot Ion:101 Resp: 5312  
Ion Ratio Lower Upper  
101 100  
103 68.7 48.8 73.2



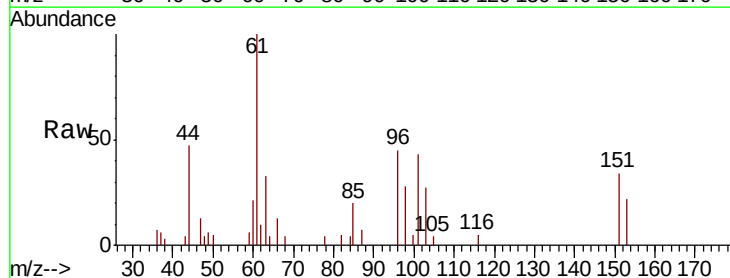
Abundance Ion 101.00 (100.70 to 101.70): V  
Ion 103.00 (102.70 to 103.70): V



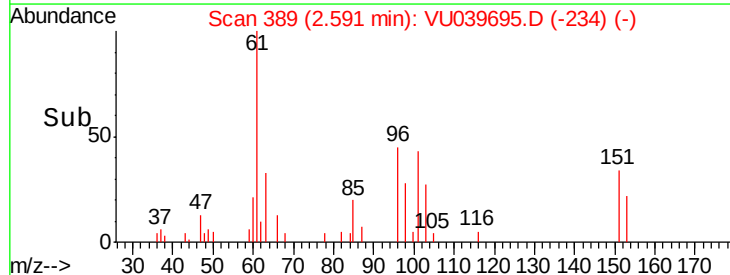
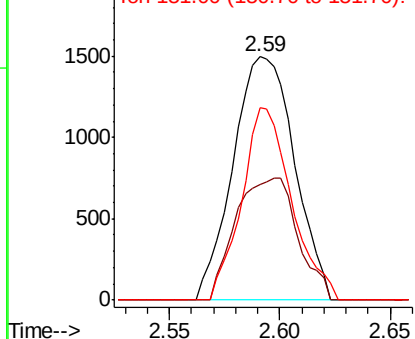
#8

1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 0.475 ug/l  
RT: 2.59 min Scan# 389  
Delta R.T. -0.00 min  
Lab File: VU039695.D  
Acq: 29 Jul 2020 10:40

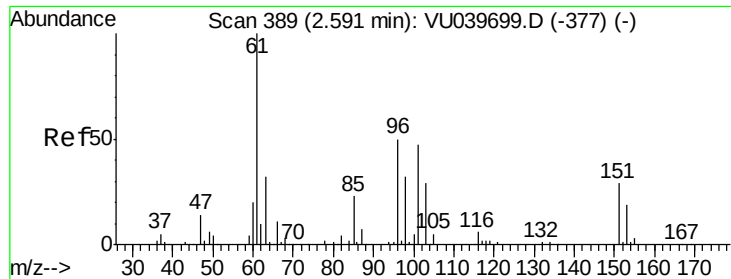
Tgt Ion:101 Resp: 2896  
Ion Ratio Lower Upper  
101 100  
85 50.6 39.9 59.9  
151 64.4 51.0 76.4



Abundance Ion 101.00 (100.70 to 101.70): V  
Ion 85.00 (84.70 to 85.70): VU  
Ion 151.00 (150.70 to 151.70): V







#9

1,1-Dichloroethene

Concen: 0.467 ug/l

RT: 2.59 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU039695.D

Acq: 29 Jul 2020 10:40

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC0.5

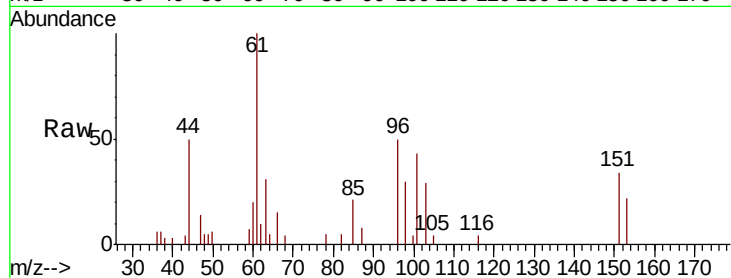
Tot Ion: 96 Resp: 2828

Ion Ratio Lower Upper

96 100

61 199.4 0.0 604.5

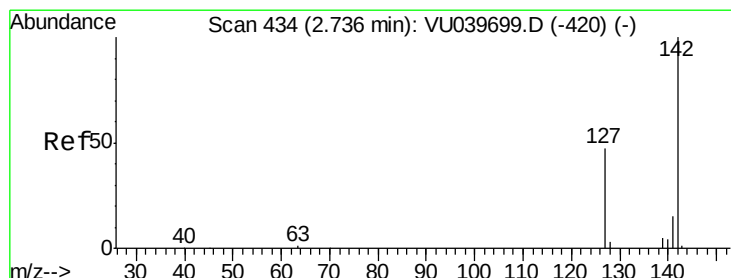
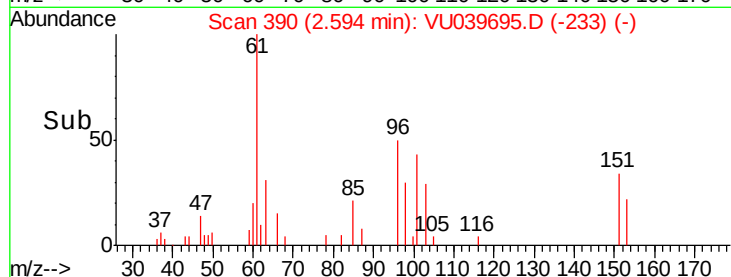
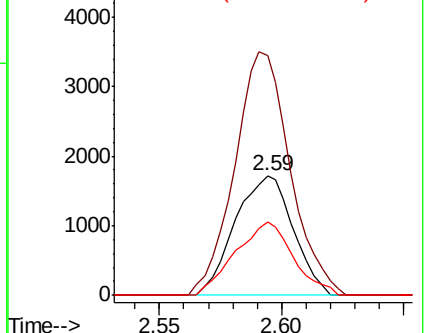
98 60.8 0.0 127.2



Abundance Ion 96.00 (95.70 to 96.70): VU039699.D (-377) (-)

Ion 61.00 (60.70 to 61.70): VU039699.D (-377) (-)

Ion 98.00 (97.70 to 98.70): VU039699.D (-377) (-)



#10

Iodomethane

Concen: 0.549 ug/l

RT: 2.74 min Scan# 435

Delta R.T. 0.00 min

Lab File: VU039695.D

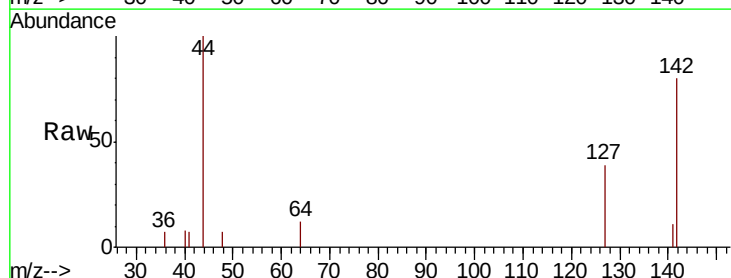
Acq: 29 Jul 2020 10:40

Tgt Ion: 142 Resp: 2209

Ion Ratio Lower Upper

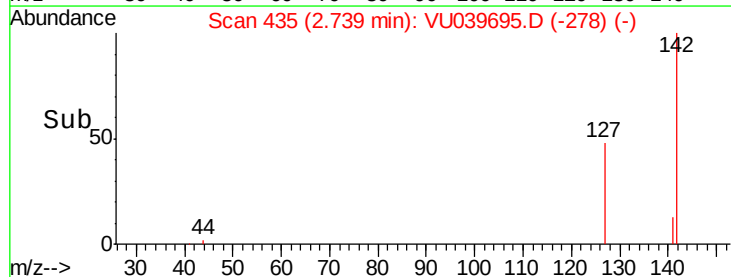
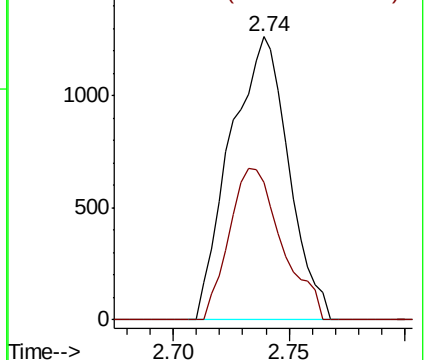
142 100

127 48.3 38.4 57.6

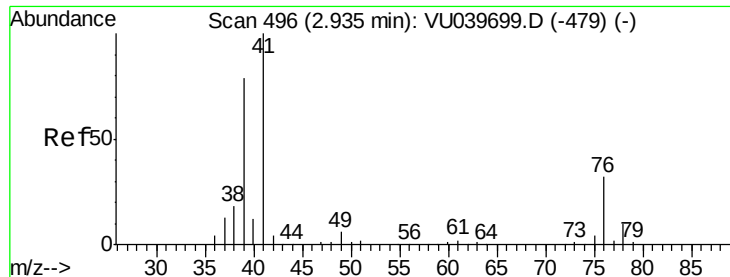


Abundance Ion 142.00 (141.70 to 142.70): VU039699.D (-420) (-)

Ion 127.00 (126.70 to 127.70): VU039699.D (-420) (-)



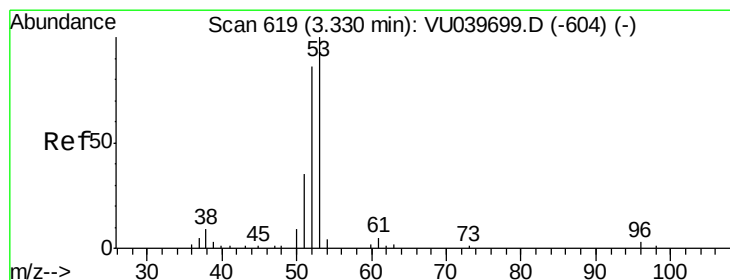
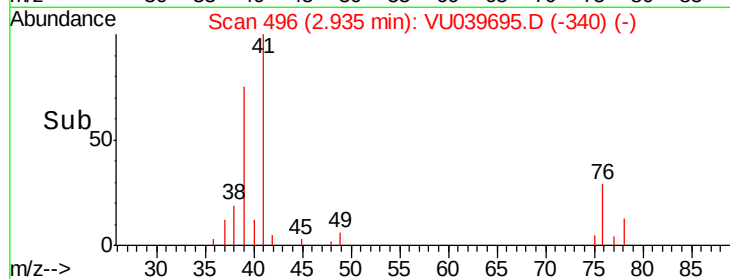
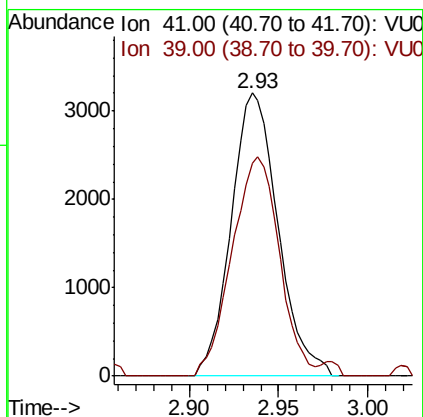
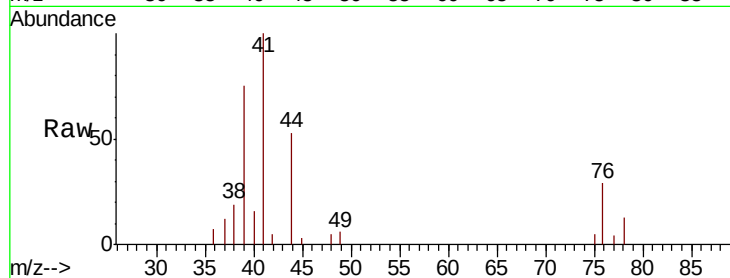




#11  
 Allvl Chloride  
 Concen: 0.512 ug/l  
 RT: 2.93 min Scan# 496  
 Delta R.T. 0.00 min  
 Lab File: VU039695.D  
 Acq: 29 Jul 2020 10:40

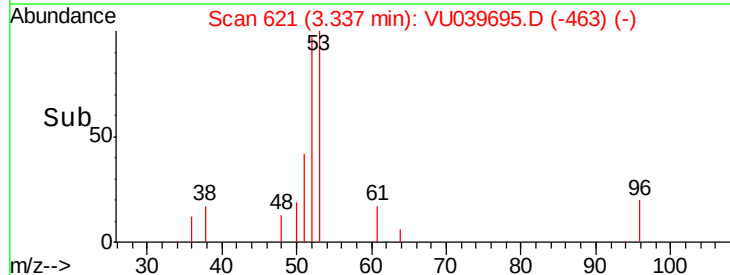
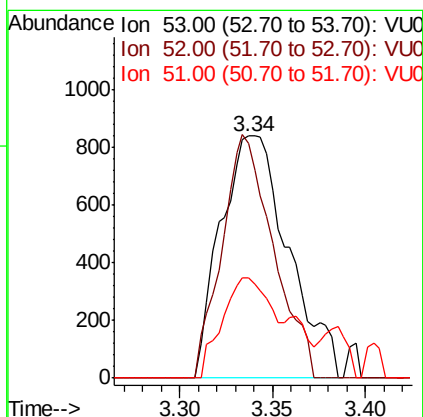
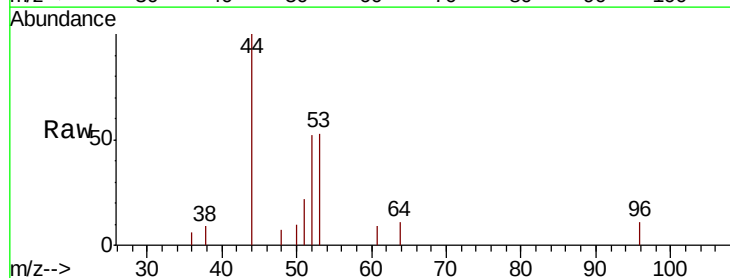
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC0.5

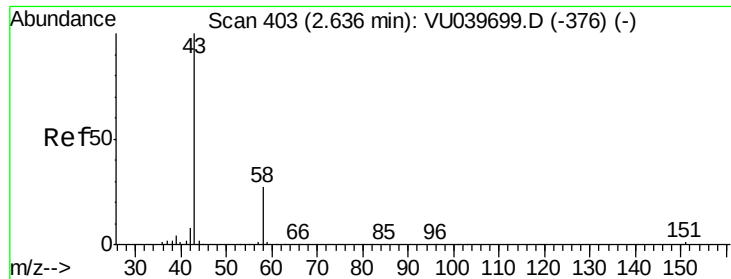
Tot Ion: 41 Resp: 5874  
 Ion Ratio Lower Upper  
 41 100  
 39 78.3 64.2 96.2



#12  
 Acrylonitrile  
 Concen: 1.242 ug/l  
 RT: 3.34 min Scan# 621  
 Delta R.T. 0.01 min  
 Lab File: VU039695.D  
 Acq: 29 Jul 2020 10:40

Tgt Ion: 53 Resp: 2137  
 Ion Ratio Lower Upper  
 53 100  
 52 76.2 69.1 103.7  
 51 31.2 29.4 44.2





#13

Acetone

Concen: 3.992 ug/l

RT: 2.65 min Scan# 407

Delta R.T. 0.01 min

Lab File: VU039695.D

Acq: 29 Jul 2020 10:40

Instrument :

MSVOA\_U

ClientSampleId :

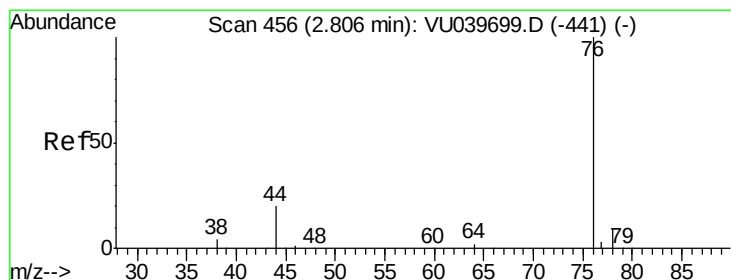
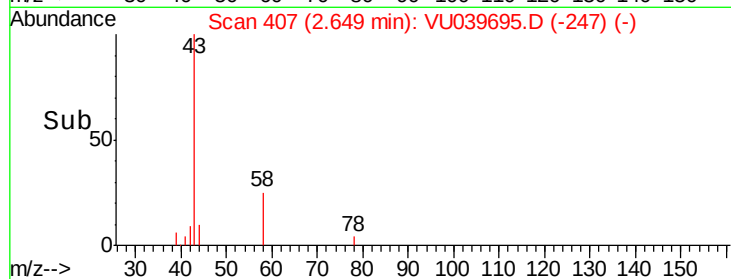
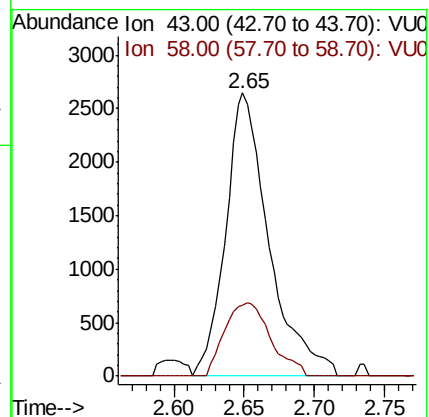
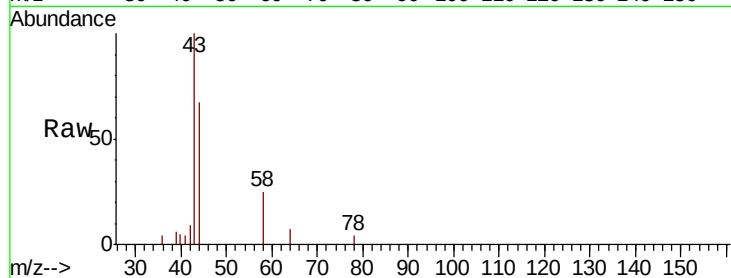
VSTDIC0.5

Tot Ion: 43 Resp: 5685

Ion Ratio Lower Upper

43 100

58 25.3 21.8 32.6



#14

Carbon Disulfide

Concen: 0.461 ug/l

RT: 2.81 min Scan# 456

Delta R.T. 0.00 min

Lab File: VU039695.D

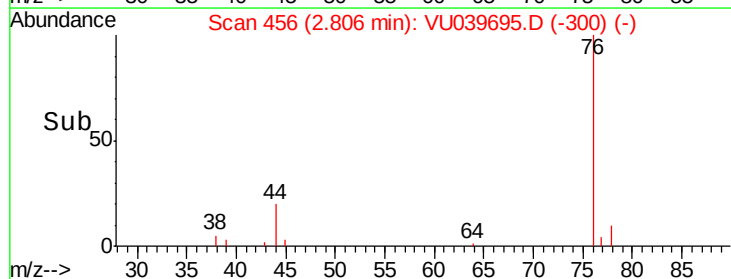
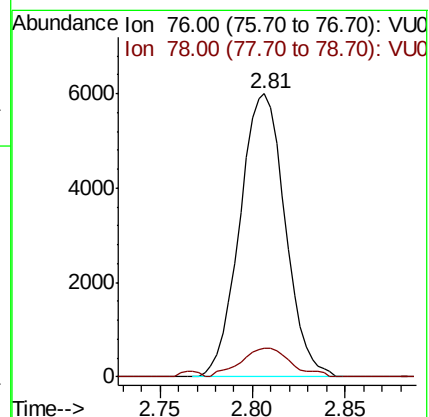
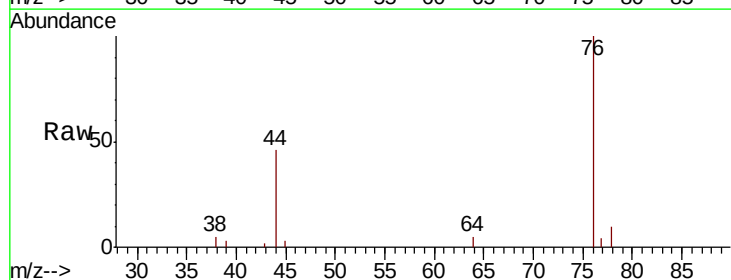
Acq: 29 Jul 2020 10:40

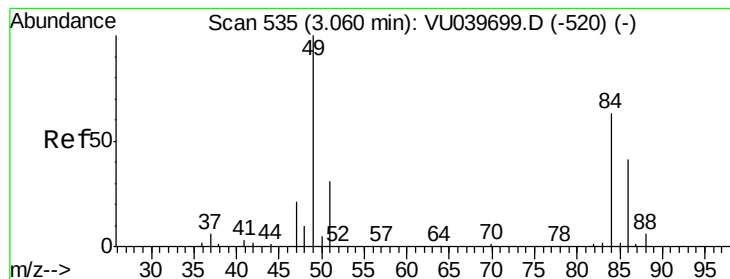
Tgt Ion: 76 Resp: 10184

Ion Ratio Lower Upper

76 100

78 10.3 7.0 10.6





#15

Methylene Chloride

Concen: 0.626 ug/l

RT: 3.06 min Scan# 534

Delta R.T. -0.00 min

Lab File: VU039695.D

Acq: 29 Jul 2020 10:40

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC0.5

Tot Ion: 84 Resp: 5260

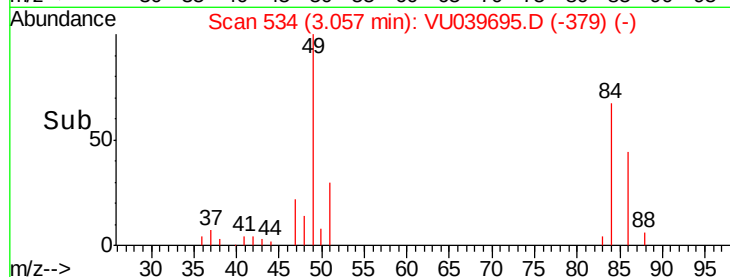
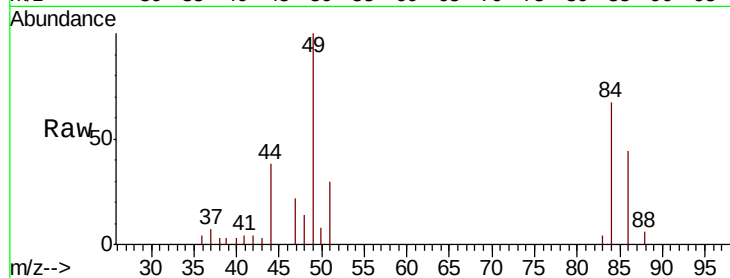
Ion Ratio Lower Upper

84 100

49 149.3 126.8 190.2

51 44.9 0.0 97.2

86 66.4 51.4 77.2



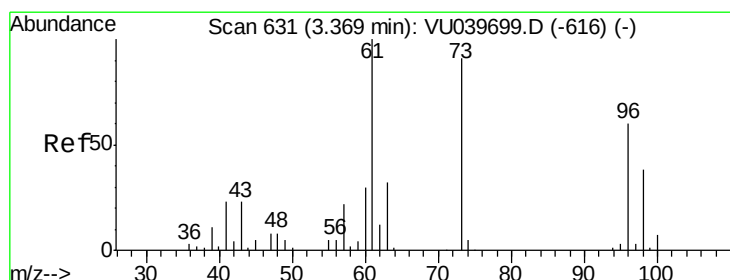
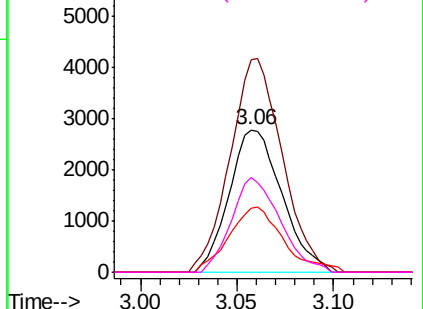
Abundance

Ion 84.00 (83.70 to 84.70): VU0

Ion 49.00 (48.70 to 49.70): VU0

Ion 51.00 (50.70 to 51.70): VU0

Ion 86.00 (85.70 to 86.70): VU0



#16

trans-1,2-Dichloroethene

Concen: 0.470 ug/l

RT: 3.37 min Scan# 631

Delta R.T. 0.00 min

Lab File: VU039695.D

Acq: 29 Jul 2020 10:40

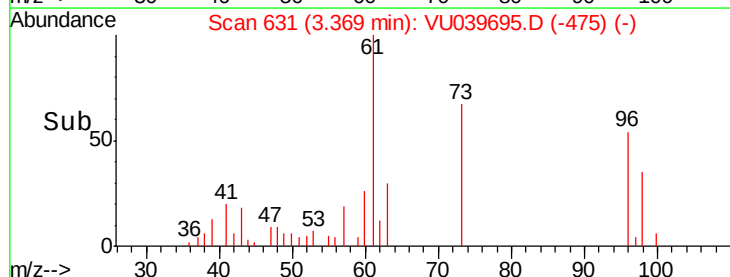
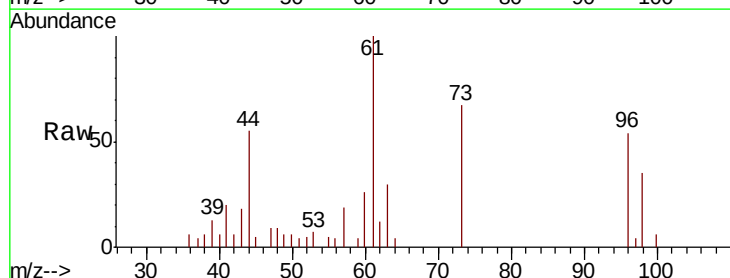
Tgt Ion: 96 Resp: 3119

Ion Ratio Lower Upper

96 100

61 184.9 132.6 199.0

98 65.6 50.2 75.2

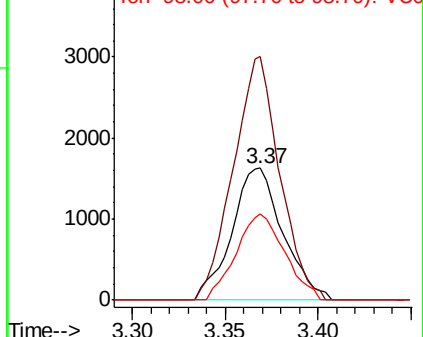


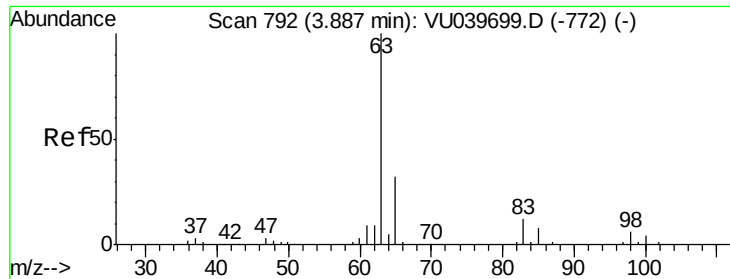
Abundance

Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

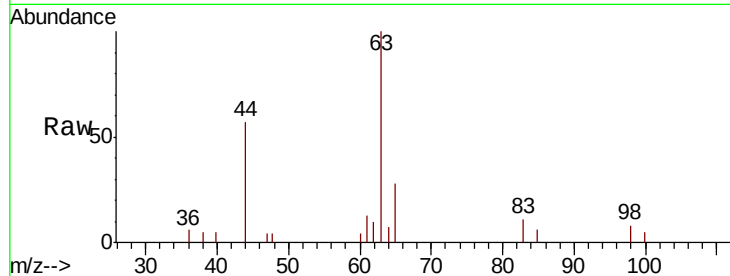




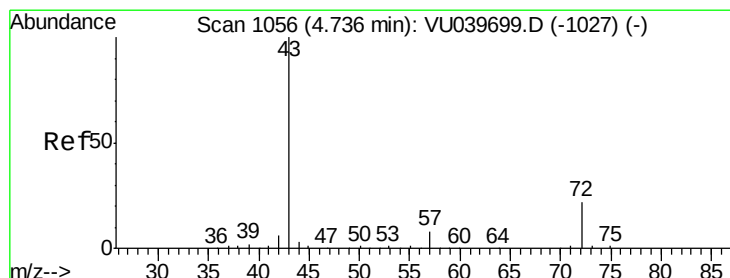
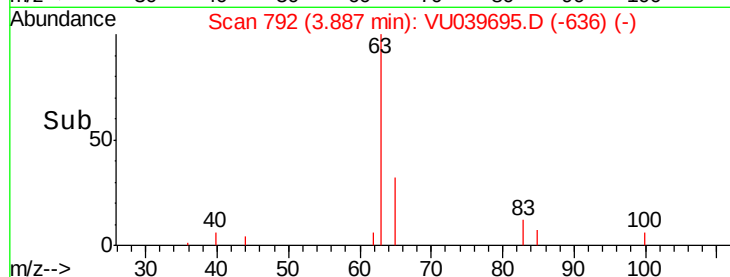
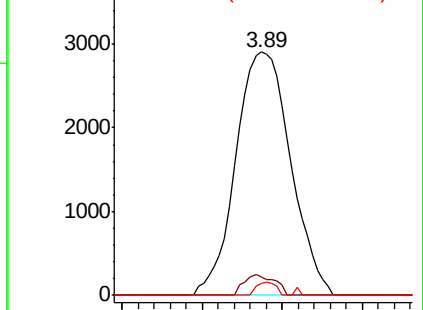
#17  
 1,1-Dichloroethane  
 Concen: 0.525 ug/l  
 RT: 3.89 min Scan# 792  
 Delta R.T. 0.00 min  
 Lab File: VU039695.D  
 Acq: 29 Jul 2020 10:40

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC0.5

Tot Ion: 63 Resp: 6806  
 Ion Ratio Lower Upper  
 63 100  
 98 7.6 2.9 8.7  
 100 4.9 2.0 6.0

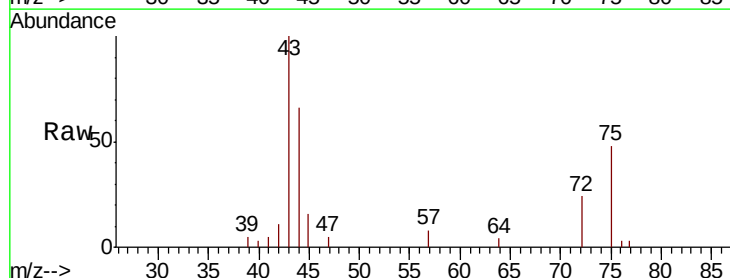


Abundance Ion 63.00 (62.70 to 63.70): VU0  
 Ion 98.00 (97.70 to 98.70): VU0  
 Ion 100.00 (99.70 to 100.70): VU0

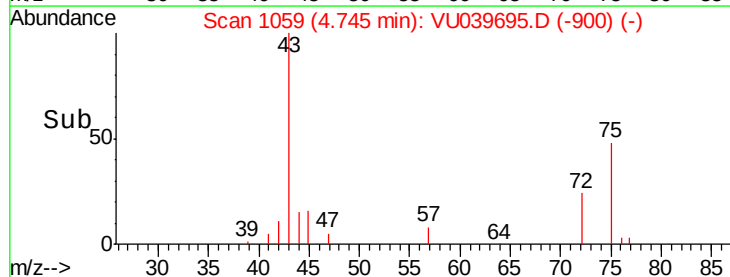
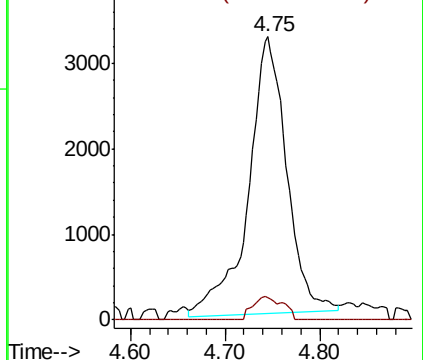


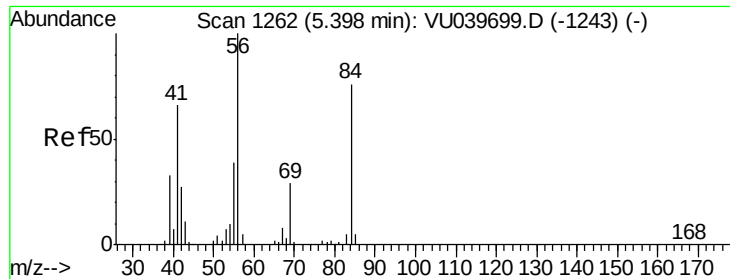
#18  
 2-Butanone  
 Concen: 4.119 ug/l  
 RT: 4.75 min Scan# 1059  
 Delta R.T. 0.01 min  
 Lab File: VU039695.D  
 Acq: 29 Jul 2020 10:40

Tgt Ion: 43 Resp: 9049  
 Ion Ratio Lower Upper  
 43 100  
 57 8.1 0.0 15.2



Abundance Ion 43.00 (42.70 to 43.70): VU0  
 Ion 57.00 (56.70 to 57.70): VU0

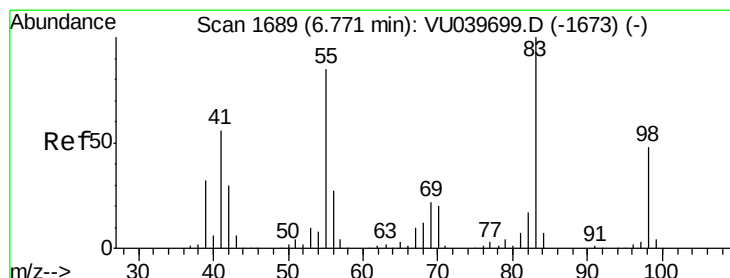
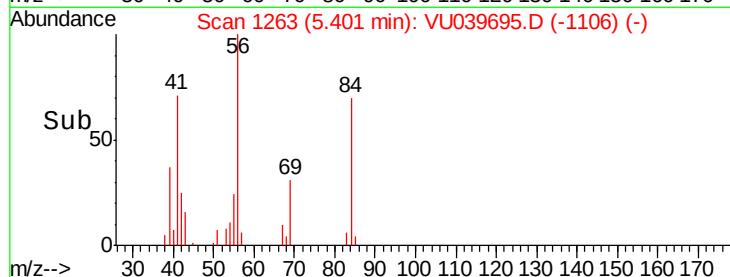
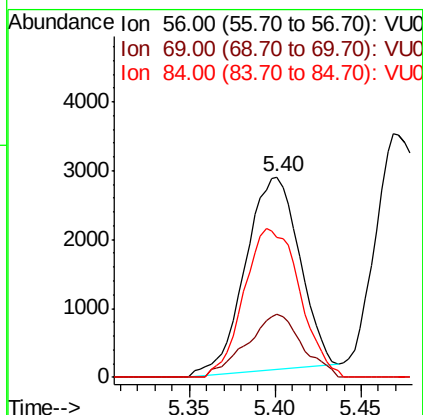
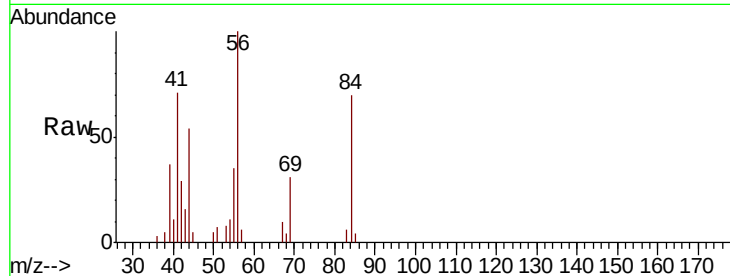




#19  
Cyclohexane  
Concen: 0.493 ug/l  
RT: 5.40 min Scan# 1263  
Delta R.T. 0.00 min  
Lab File: VU039695.D  
Acq: 29 Jul 2020 10:40

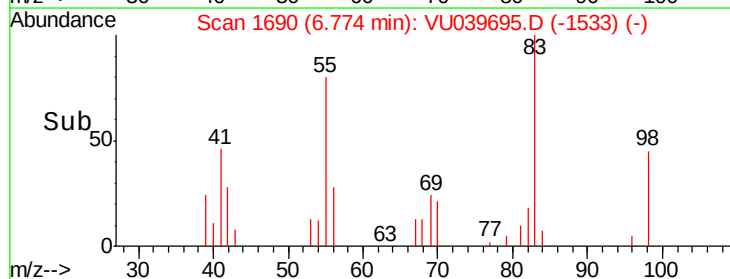
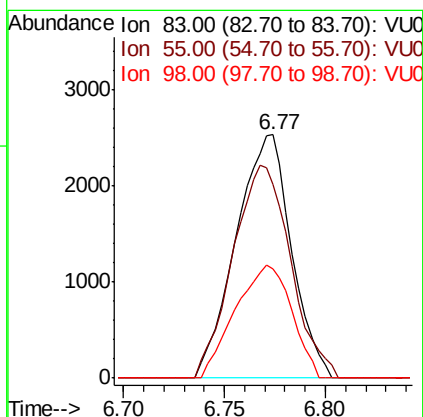
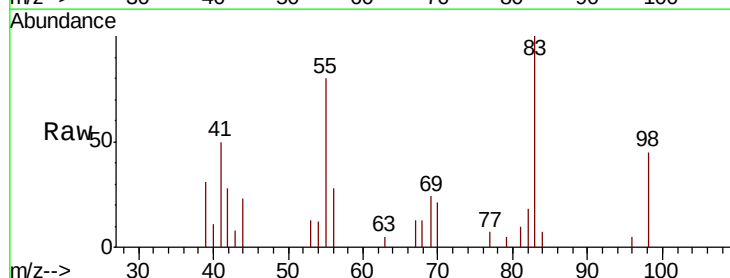
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC0.5

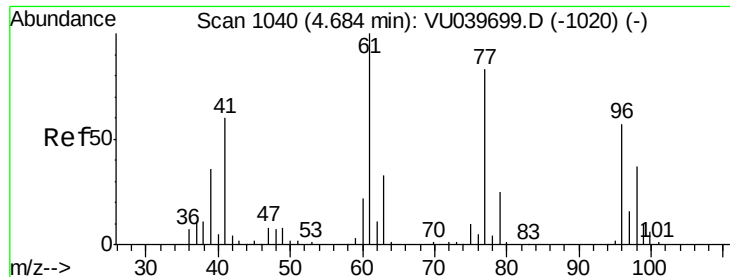
Tot Ion: 56 Resp: 6149  
Ion Ratio Lower Upper  
56 100  
69 33.3 22.8 34.2  
84 79.1 59.9 89.9



#20  
Methylcyclohexane  
Concen: 0.410 ug/l  
RT: 6.77 min Scan# 1690  
Delta R.T. 0.00 min  
Lab File: VU039695.D  
Acq: 29 Jul 2020 10:40

Tgt Ion: 83 Resp: 4837  
Ion Ratio Lower Upper  
83 100  
55 91.4 67.6 101.4  
98 47.3 37.3 55.9

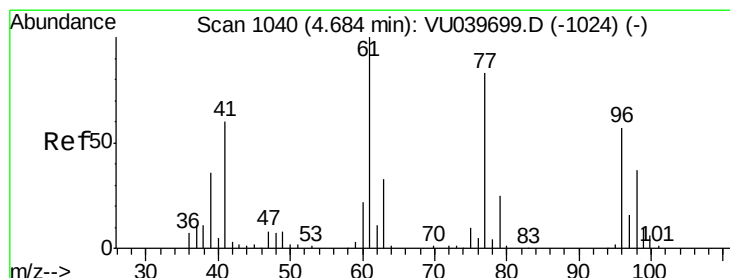
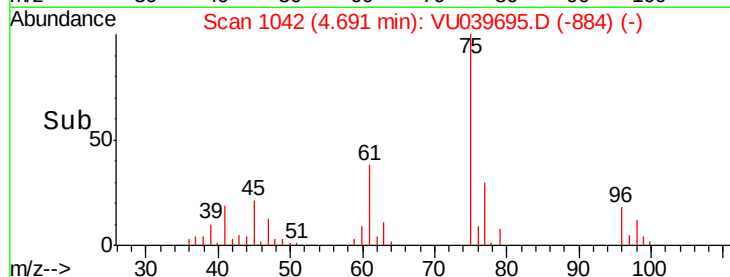
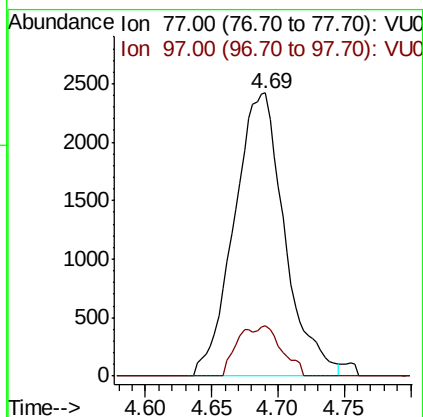
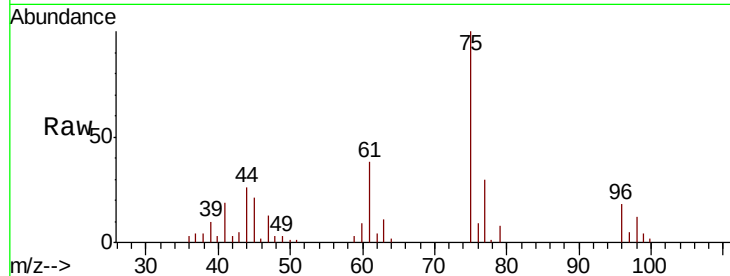




#21  
 2,2-Dichloropropane  
 Concen: 0.598 ug/l  
 RT: 4.69 min Scan# 1042  
 Delta R.T. 0.01 min  
 Lab File: VU039695.D  
 Acq: 29 Jul 2020 10:40

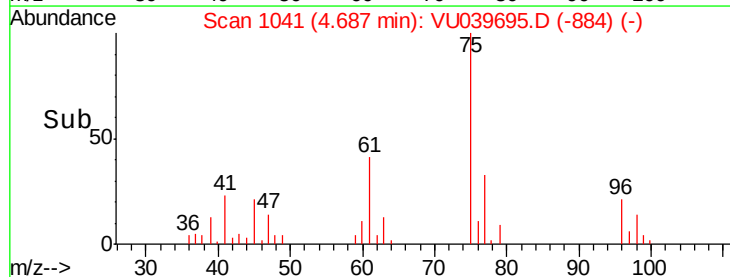
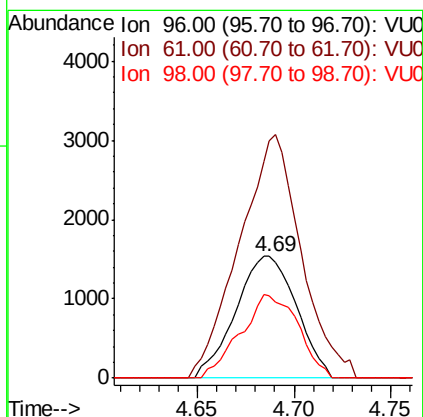
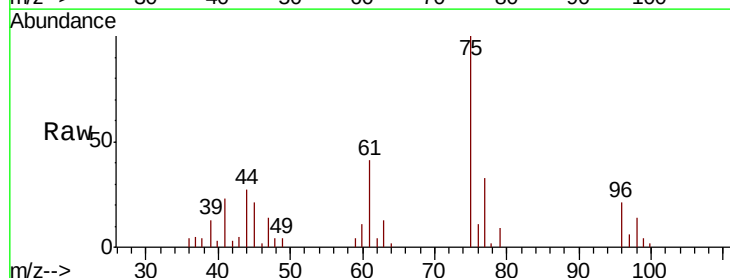
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC0.5

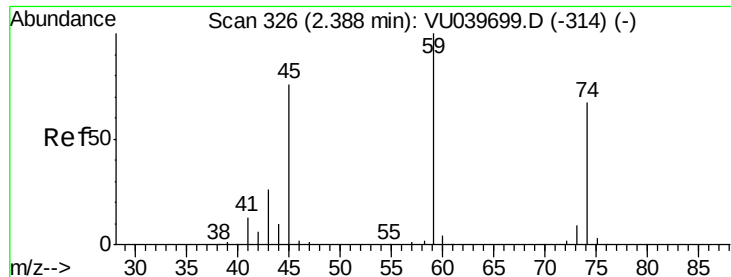
Tot Ion: 77 Resp: 6405  
 Ion Ratio Lower Upper  
 77 100  
 97 6.4 15.2 22.8#



#22  
 cis-1,2-Dichloroethene  
 Concen: 0.476 ug/l  
 RT: 4.69 min Scan# 1041  
 Delta R.T. 0.00 min  
 Lab File: VU039695.D  
 Acq: 29 Jul 2020 10:40

Tgt Ion: 96 Resp: 3347  
 Ion Ratio Lower Upper  
 96 100  
 61 203.8 0.0 451.3  
 98 65.4 32.6 98.0

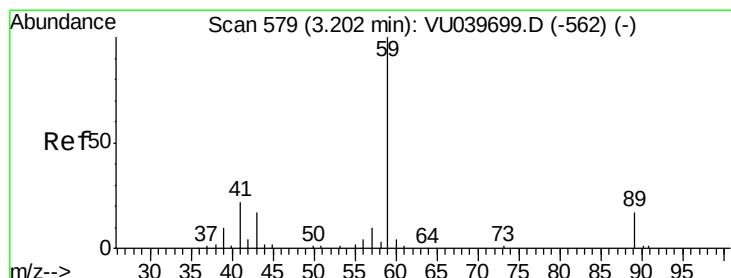
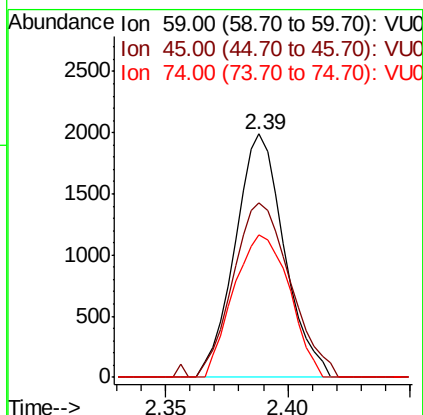
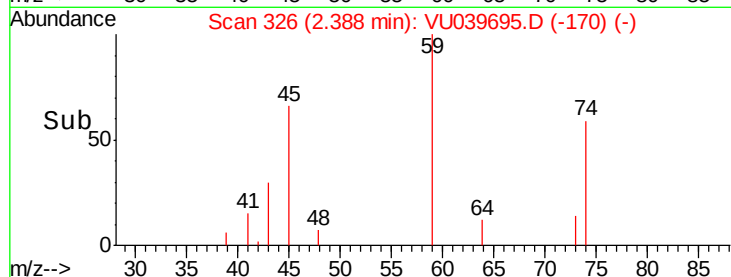
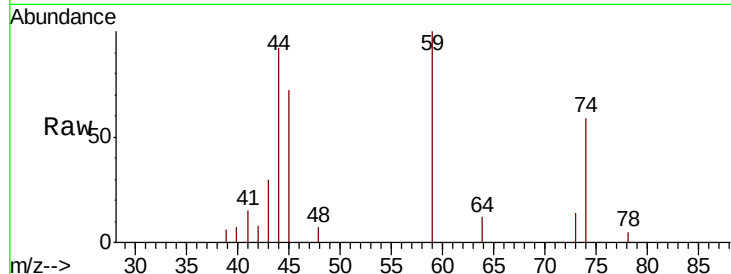




#23  
Diethyl Ether  
Concen: 0.512 ug/l  
RT: 2.39 min Scan# 326  
Delta R.T. 0.00 min  
Lab File: VU039695.D  
Acq: 29 Jul 2020 10:40

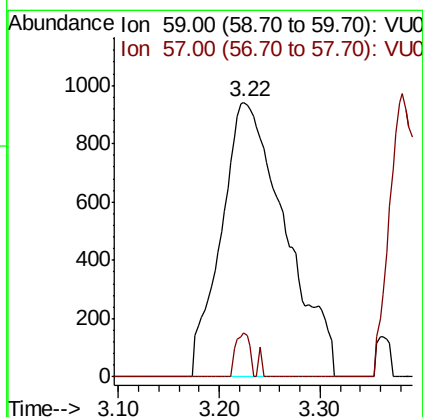
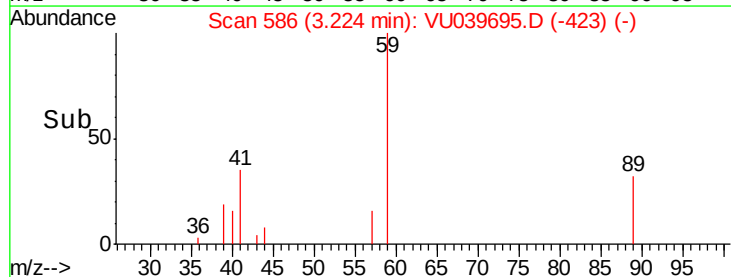
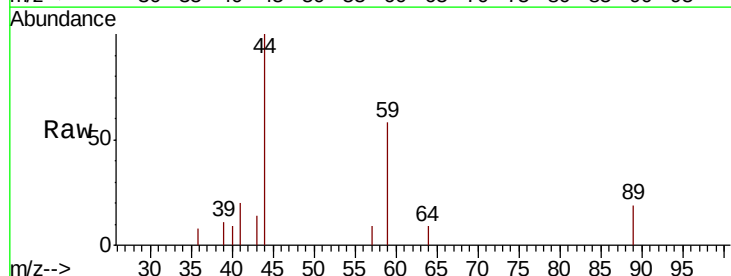
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC0.5

Tot Ion: 59 Resp: 2781  
Ion Ratio Lower Upper  
59 100  
45 83.5 61.5 92.3  
74 66.6 54.3 81.5

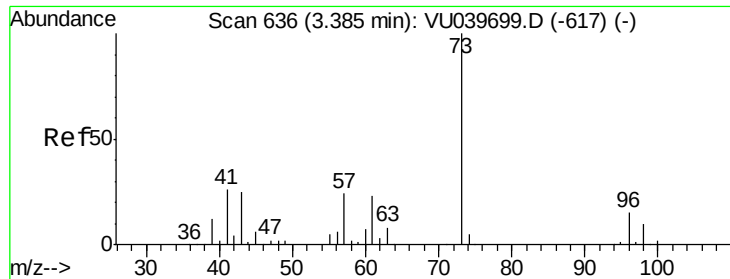


#24  
tert-Butyl Alcohol  
Concen: 6.716 ug/l  
RT: 3.22 min Scan# 586  
Delta R.T. 0.02 min  
Lab File: VU039695.D  
Acq: 29 Jul 2020 10:40

Tgt Ion: 59 Resp: 4155  
Ion Ratio Lower Upper  
59 100  
57 3.6 7.8 11.6#







#25

Methyl tert-Butyl Ether

Concen: 0.515 ug/l

RT: 3.39 min Scan# 636

Delta R.T. 0.00 min

Lab File: VU039695.D

Acq: 29 Jul 2020 10:40

Instrument :

MSVOA\_U

ClientSampleId :

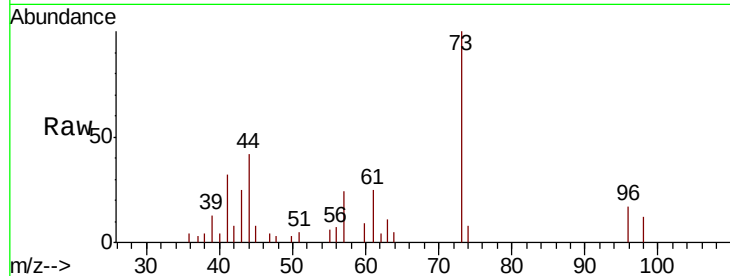
VSTDIC0.5

Tot Ion: 73 Resp: 8823

Ion Ratio Lower Upper

73 100

43 27.9 20.1 30.1



Abundance Ion 73.00 (72.70 to 73.70): VU039699.D (-617) (-)

Ion 43.00 (42.70 to 43.70): VU039699.D (-617) (-)

3.39

4000

3000

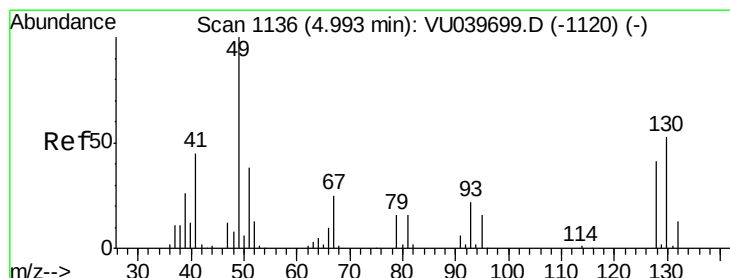
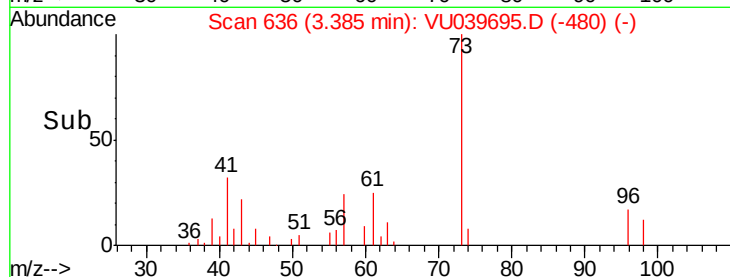
2000

1000

0

Time-->

3.30 3.35 3.40 3.45



#26

Bromochloromethane

Concen: 0.567 ug/l

RT: 4.99 min Scan# 1136

Delta R.T. 0.00 min

Lab File: VU039695.D

Acq: 29 Jul 2020 10:40

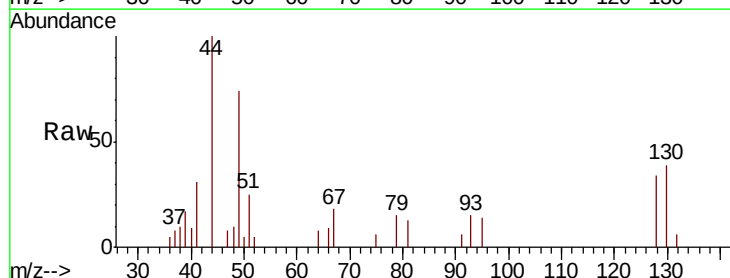
Tgt Ion: 128 Resp: 1609

Ion Ratio Lower Upper

128 100

49 213.9 0.0 503.8

130 109.4 102.7 154.1



Abundance Ion 128.00 (127.70 to 128.70): VU039699.D (-1120) (-)

Ion 49.00 (48.70 to 49.70): VU039699.D (-1120) (-)

Ion 130.00 (129.70 to 130.70): VU039699.D (-1120) (-)

4.99

2000

1500

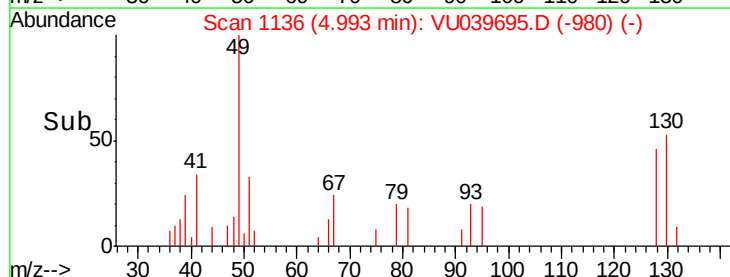
1000

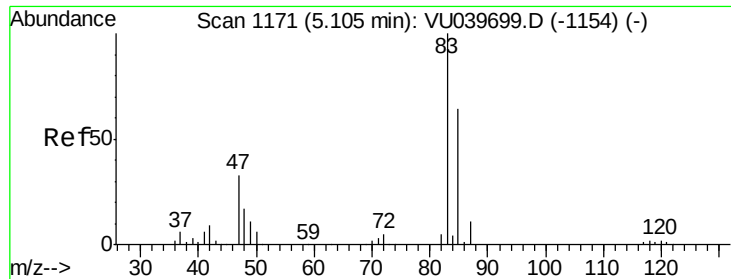
500

0

Time-->

4.95 5.00 5.05

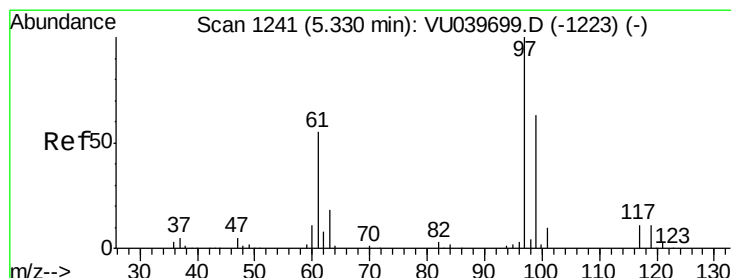
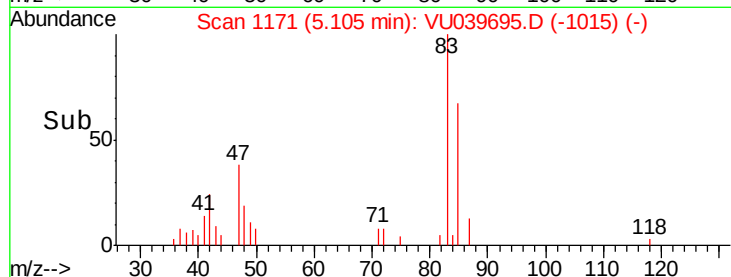
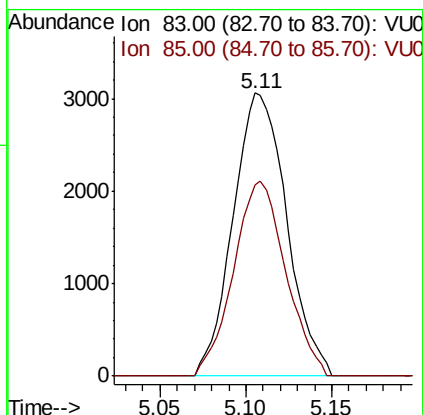
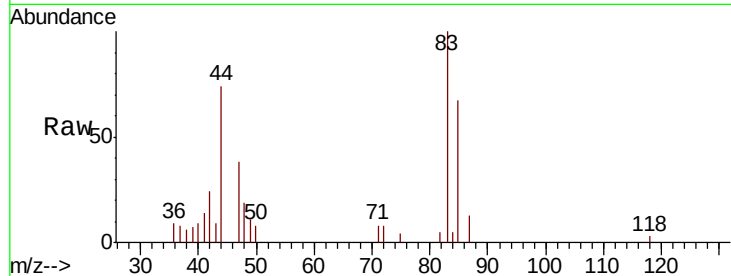




#27  
Chloroform  
Concen: 0.545 ug/l  
RT: 5.11 min Scan# 1171  
Delta R.T. 0.00 min  
Lab File: VU039695.D  
Acq: 29 Jul 2020 10:40

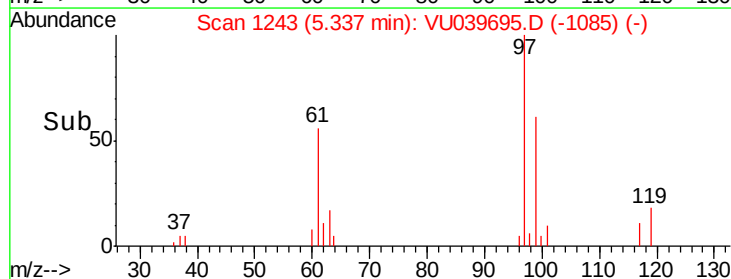
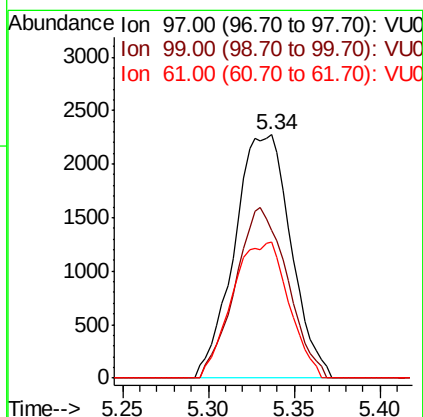
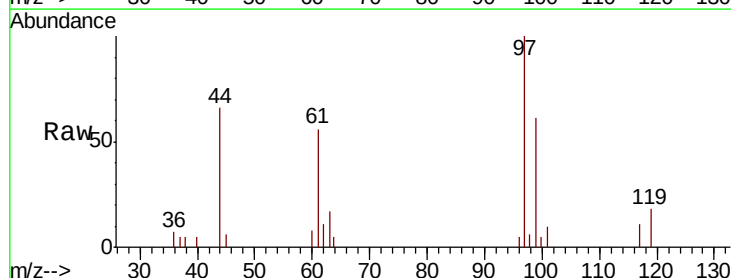
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC0.5

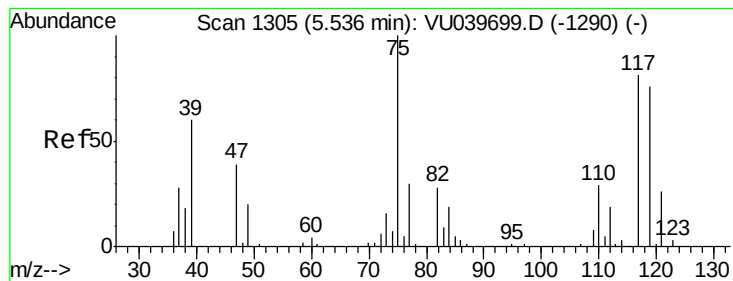
Tot Ion: 83 Resp: 6602  
Ion Ratio Lower Upper  
83 100  
85 67.4 0.0 128.8



#28  
1,1,1-Trichloroethane  
Concen: 0.521 ug/l  
RT: 5.34 min Scan# 1243  
Delta R.T. 0.01 min  
Lab File: VU039695.D  
Acq: 29 Jul 2020 10:40

Tgt Ion: 97 Resp: 5182  
Ion Ratio Lower Upper  
97 100  
99 65.0 32.2 96.6  
61 55.9 28.3 85.0





#29

1,1-Dichloropropene

Concen: 0.512 ug/l

RT: 5.54 min Scan# 1305

Delta R.T. 0.00 min

Lab File: VU039695.D

Acq: 29 Jul 2020 10:40

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC0.5

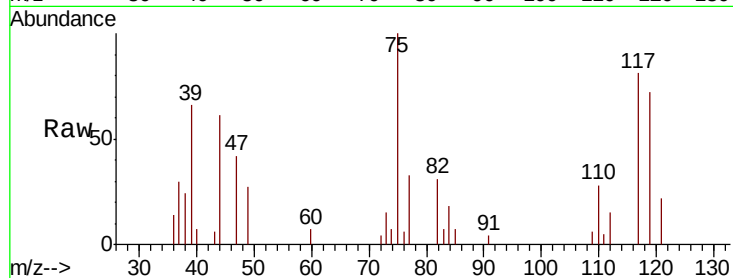
Tot Ion: 75 Resp: 5073

Ion Ratio Lower Upper

75 100

110 29.4 14.6 44.0

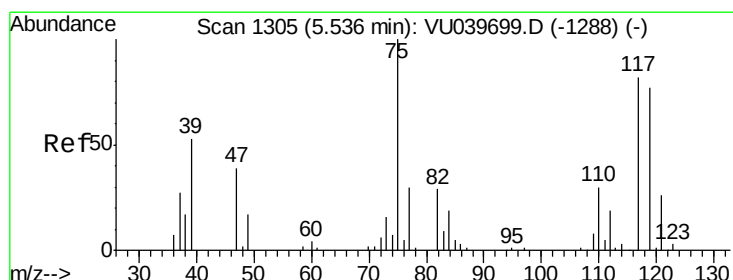
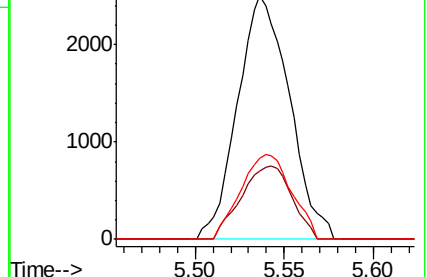
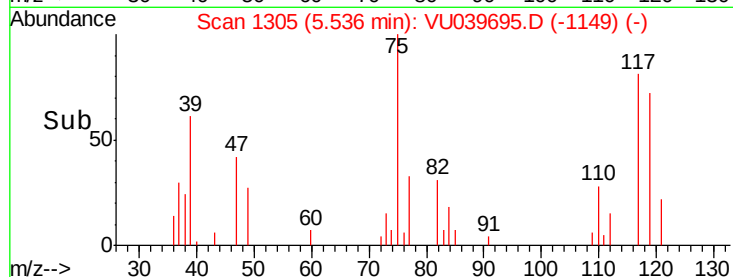
77 34.0 25.0 37.4



Abundance Ion 75.00 (74.70 to 75.70): VU039699.D (-1290) (-)

Ion 110.00 (109.70 to 110.70): VU039699.D (-1290) (-)

Ion 77.00 (76.70 to 77.70): VU039699.D (-1290) (-)



#30

Carbon Tetrachloride

Concen: 0.508 ug/l

RT: 5.54 min Scan# 1305

Delta R.T. 0.00 min

Lab File: VU039695.D

Acq: 29 Jul 2020 10:40

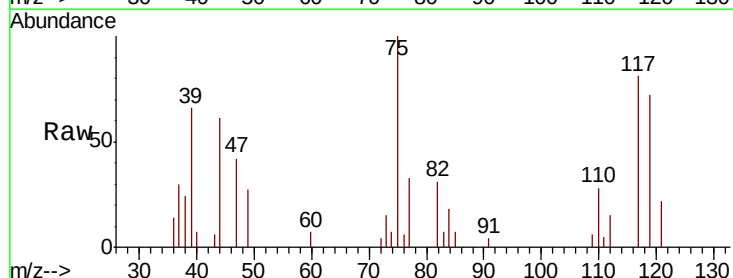
Tgt Ion: 117 Resp: 4205

Ion Ratio Lower Upper

117 100

119 88.5 75.2 112.8

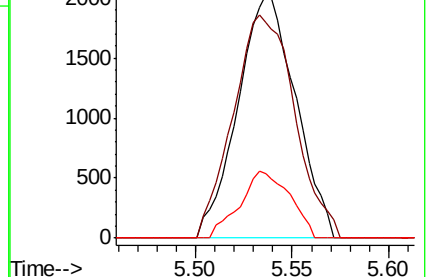
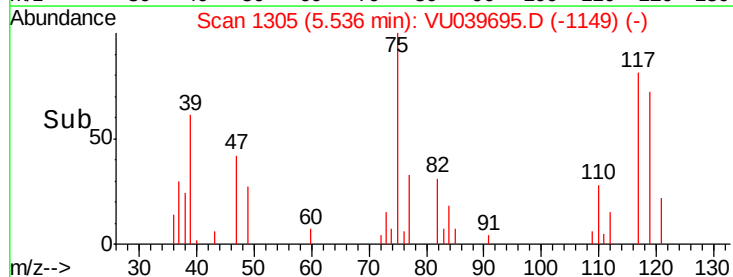
121 26.6 25.4 38.2

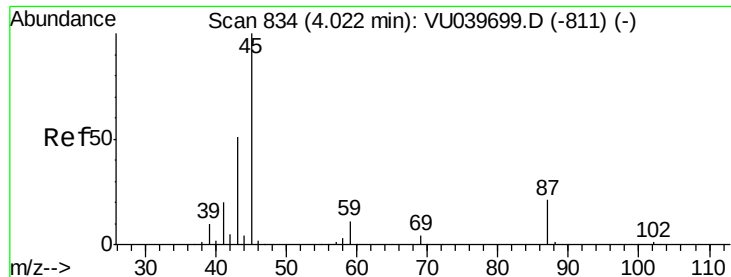


Abundance Ion 117.00 (116.70 to 117.70): VU039699.D (-1288) (-)

Ion 119.00 (118.70 to 119.70): VU039699.D (-1288) (-)

Ion 121.00 (120.70 to 121.70): VU039699.D (-1288) (-)





#31

Isopropyl Ether

Concen: 0.561 ug/l

RT: 4.02 min Scan# 833

Delta R.T. -0.00 min

Lab File: VU039695.D

Acq: 29 Jul 2020 10:40

Instrument :

MSVOA\_U

ClientSampleId :

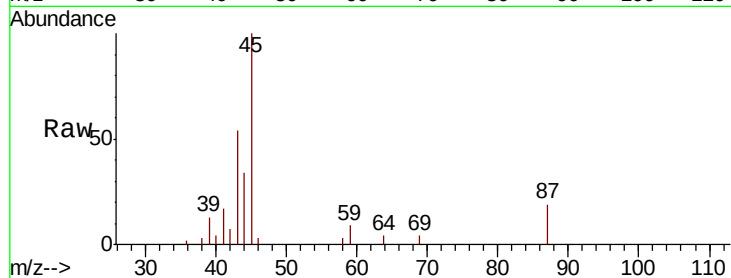
VSTDIC0.5

Tot Ion: 45 Resp: 12195

Ion Ratio Lower Upper

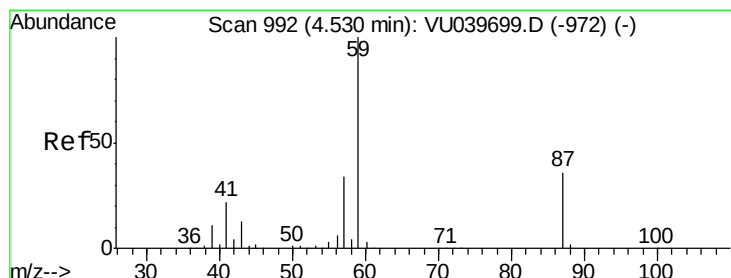
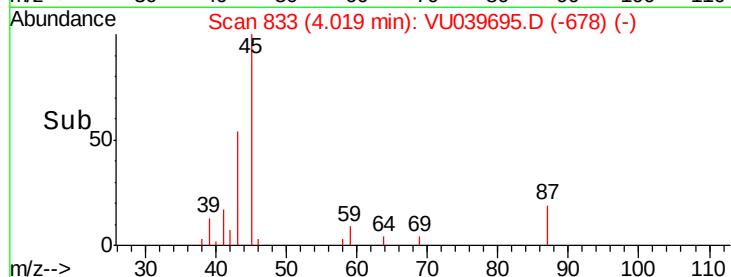
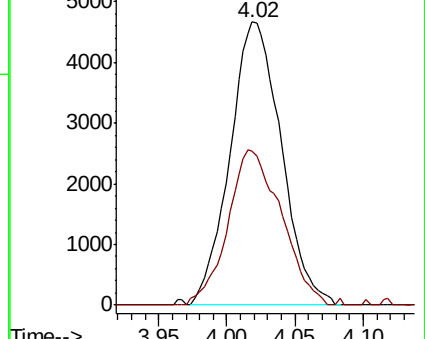
45 100

43 57.0 26.5 79.4



Abundance Ion 45.00 (44.70 to 45.70): VU039699.D (-811) (-)

Ion 43.00 (42.70 to 43.70): VU039699.D (-811) (-)



#32

Ethyl-t-butyl ether

Concen: 0.550 ug/l

RT: 4.53 min Scan# 993

Delta R.T. 0.00 min

Lab File: VU039695.D

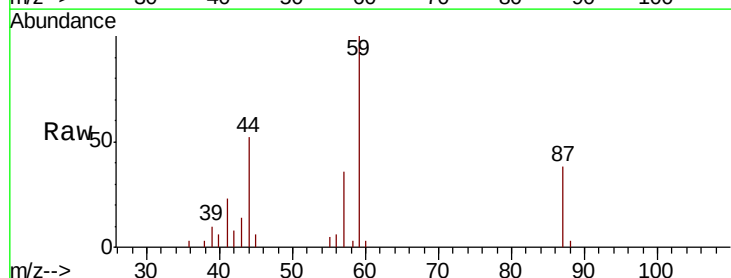
Acq: 29 Jul 2020 10:40

Tgt Ion: 59 Resp: 10644

Ion Ratio Lower Upper

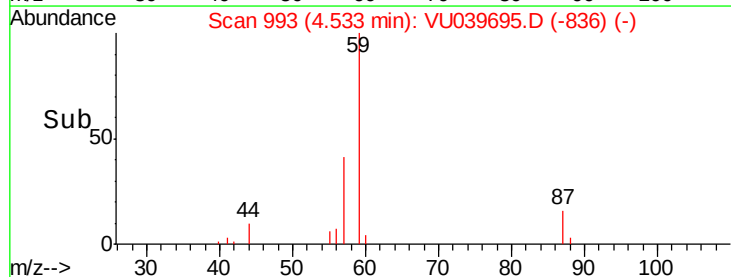
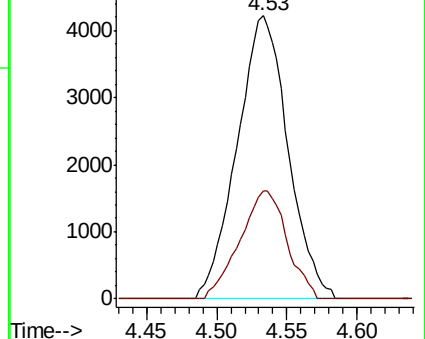
59 100

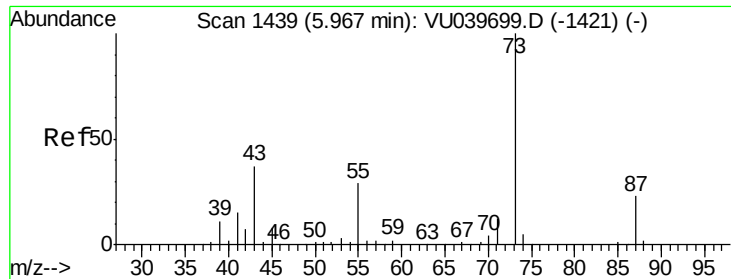
87 35.3 29.4 44.0



Abundance Ion 59.00 (58.70 to 59.70): VU039699.D (-972) (-)

Ion 87.00 (86.70 to 87.70): VU039699.D (-972) (-)

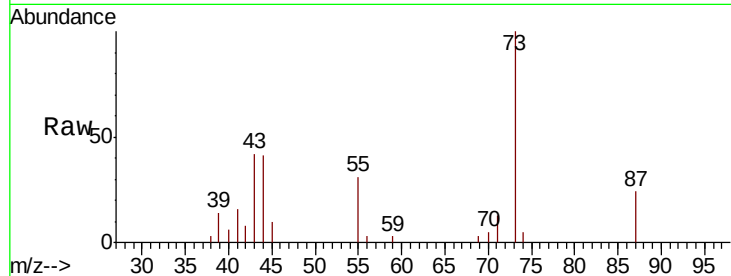




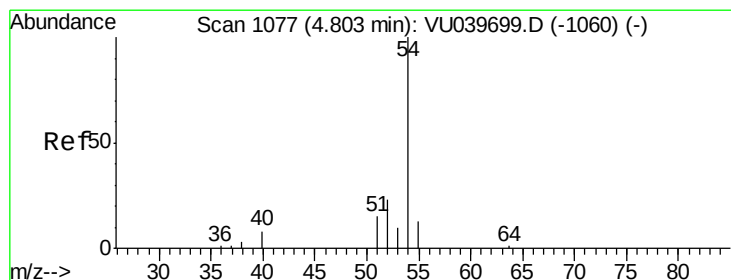
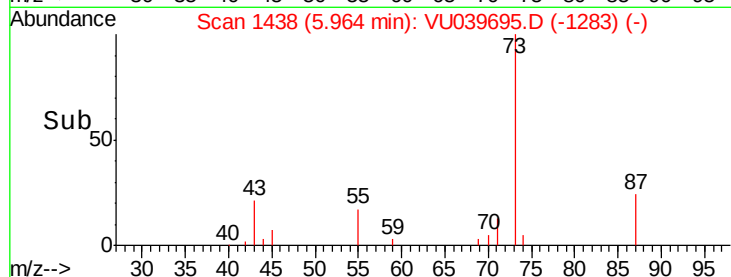
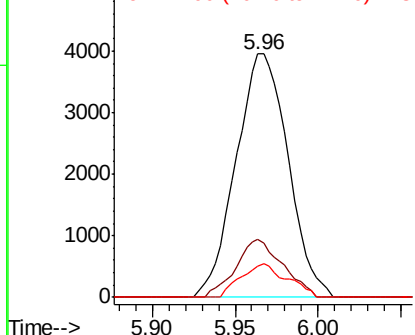
#33  
Tert-Butyl methyl ether  
Concen: 0.533 ug/l  
RT: 5.96 min Scan# 1438  
Delta R.T. -0.00 min  
Lab File: VU039695.D  
Acq: 29 Jul 2020 10:40

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC0.5

Tot Ion: 73 Resp: 8649  
Ion Ratio Lower Upper  
73 100  
87 21.3 18.7 28.1  
71 12.0 9.1 13.7

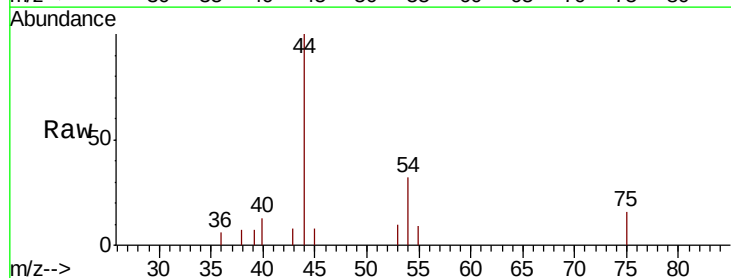


Abundance Ion 73.00 (72.70 to 73.70): VU0  
Ion 87.00 (86.70 to 87.70): VU0  
Ion 71.00 (70.70 to 71.70): VU0

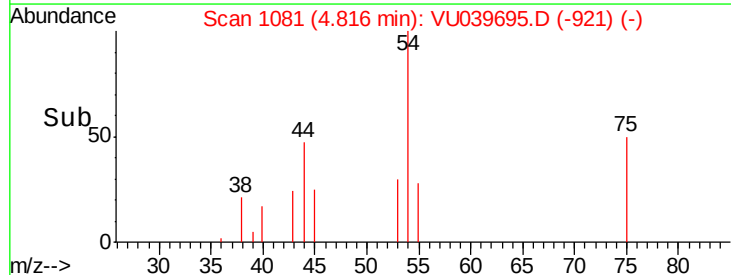
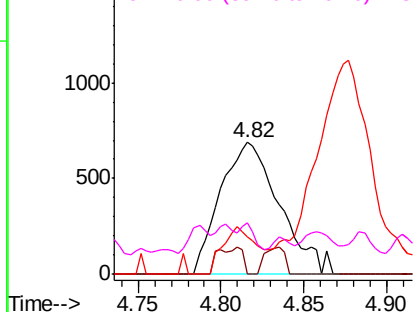


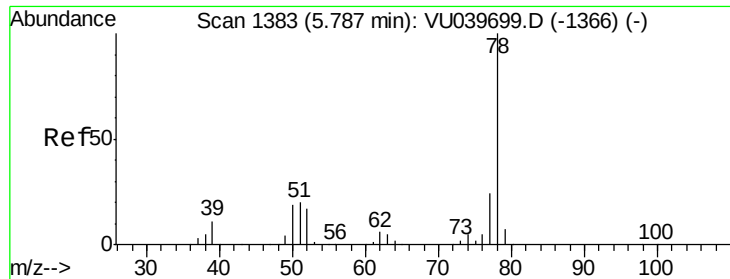
#34  
Propionitrile  
Concen: 2.808 ug/l  
RT: 4.82 min Scan# 1081  
Delta R.T. 0.01 min  
Lab File: VU039695.D  
Acq: 29 Jul 2020 10:40

Tgt Ion: 54 Resp: 1714  
Ion Ratio Lower Upper  
54 100  
52 8.4 16.9 25.3#  
55 20.8 12.9 19.3#  
40 6.9 6.2 9.2



Abundance Ion 54.00 (53.70 to 54.70): VU0  
Ion 52.00 (51.70 to 52.70): VU0  
Ion 55.00 (54.70 to 55.70): VU0  
Ion 40.00 (39.70 to 40.70): VU0





#35

Benzene

Concen: 0.503 ug/l

RT: 5.79 min Scan# 1384

Delta R.T. 0.00 min

Lab File: VU039695.D

Acq: 29 Jul 2020 10:40

Instrument :

MSVOA\_U

ClientSampleId :

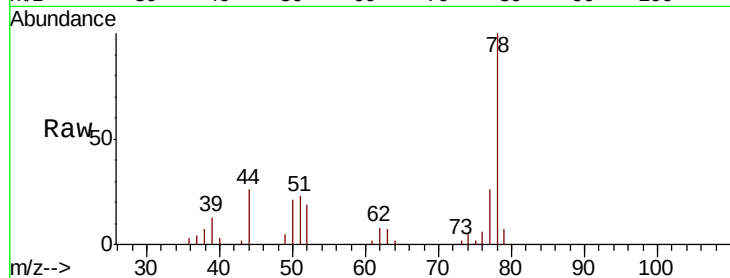
VSTDIC0.5

Tot Ion: 78 Resp: 13687

Ion Ratio Lower Upper

78 100

77 26.4 19.2 28.8



Abundance Ion 78.10 (77.80 to 78.80): VU039699.D (-1366) (-)

Ion 77.00 (76.70 to 77.70): VU039699.D (-1366) (-)

5.79

6000

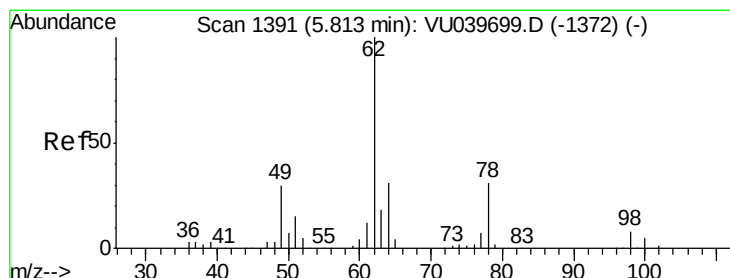
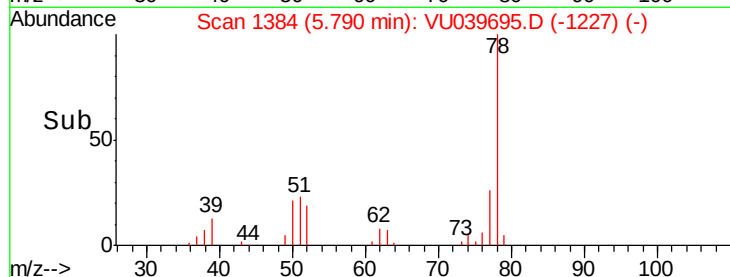
4000

2000

0

Time-->

5.70 5.75 5.80 5.85



#36

1,2-Dichloroethane

Concen: 0.636 ug/l

RT: 5.82 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VU039695.D

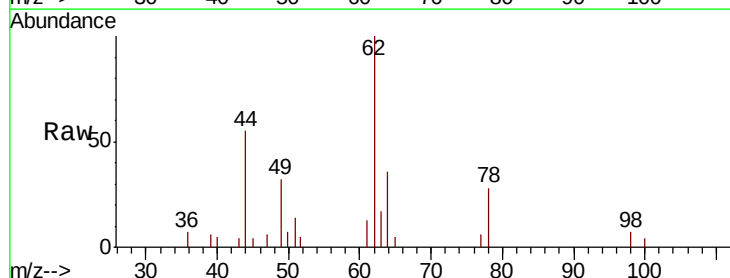
Acq: 29 Jul 2020 10:40

Tgt Ion: 62 Resp: 5354

Ion Ratio Lower Upper

62 100

98 6.9 6.2 9.2



Abundance Ion 62.00 (61.70 to 62.70): VU039699.D (-1372) (-)

Ion 98.00 (97.70 to 98.70): VU039699.D (-1372) (-)

5.82

3000

2500

2000

1500

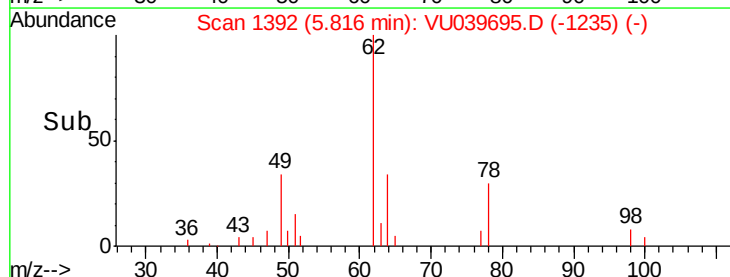
1000

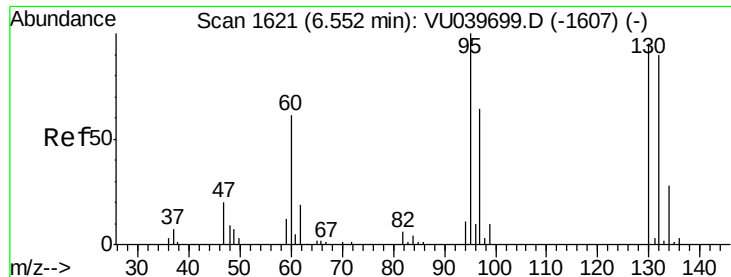
500

0

Time-->

5.75 5.80 5.85

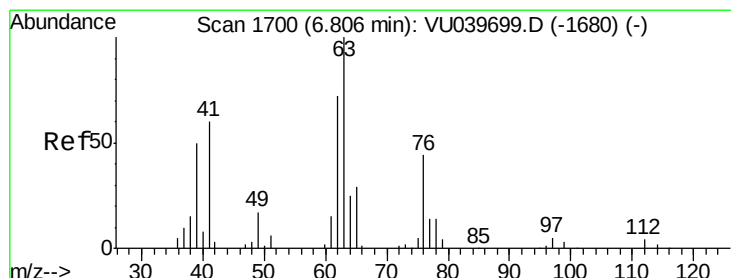
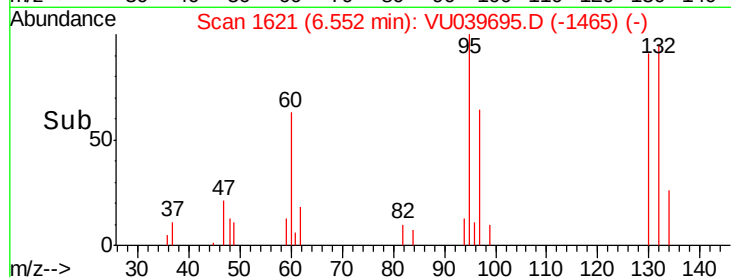
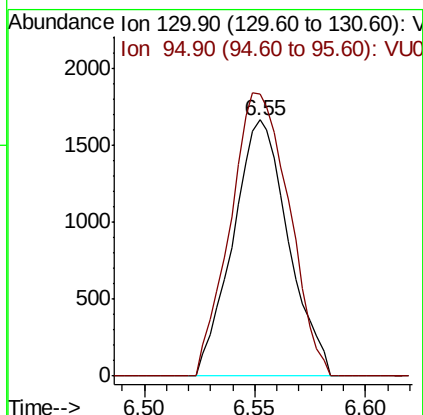
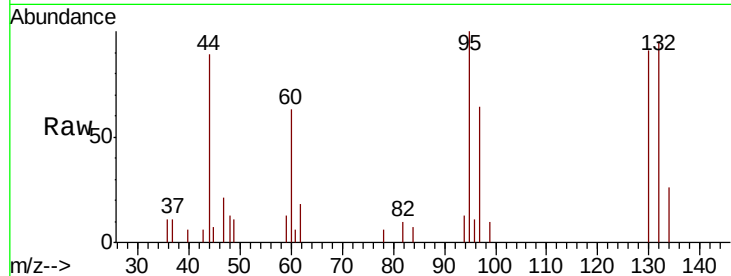




#37  
 Trichloroethene  
 Concen: 0.411 ug/l  
 RT: 6.55 min Scan# 1621  
 Delta R.T. 0.00 min  
 Lab File: VU039695.D  
 Acq: 29 Jul 2020 10:40

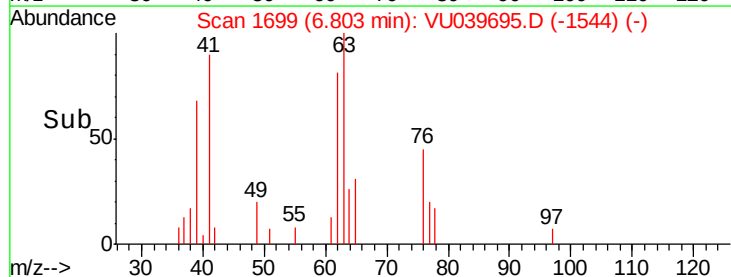
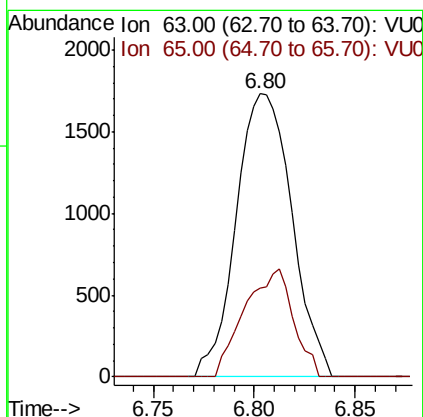
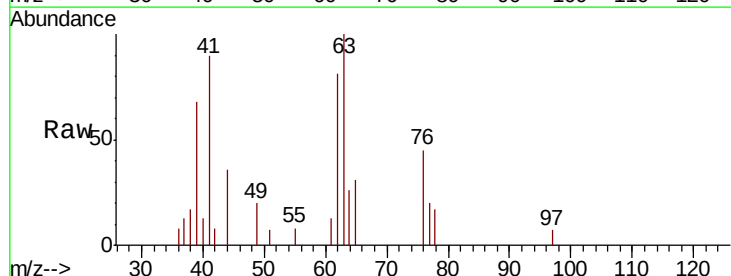
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC0.5

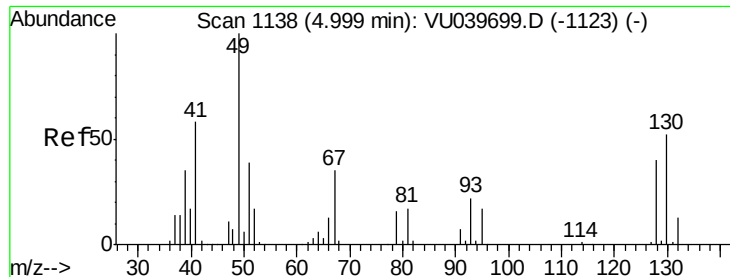
Tot Ion:130 Resp: 2896  
 Ion Ratio Lower Upper  
 130 100  
 95 110.2 84.3 126.5



#38  
 1,2-Dichloropropane  
 Concen: 0.450 ug/l  
 RT: 6.80 min Scan# 1699  
 Delta R.T. -0.00 min  
 Lab File: VU039695.D  
 Acq: 29 Jul 2020 10:40

Tgt Ion: 63 Resp: 3345  
 Ion Ratio Lower Upper  
 63 100  
 65 31.2 23.8 35.6

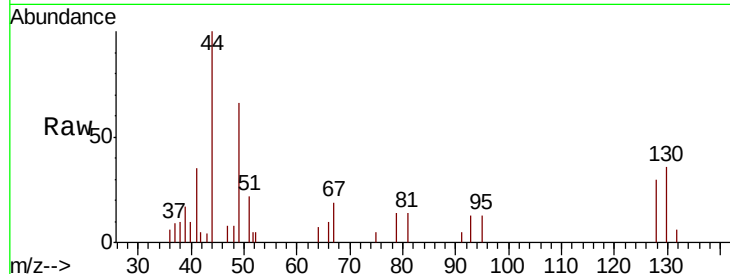




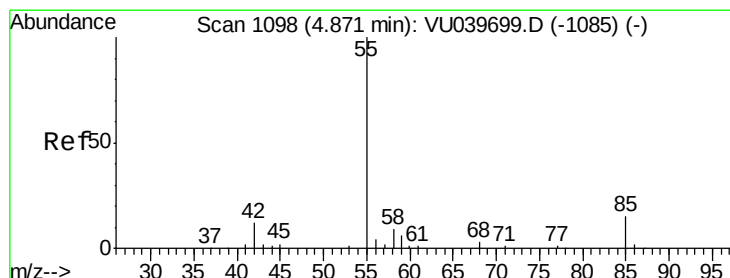
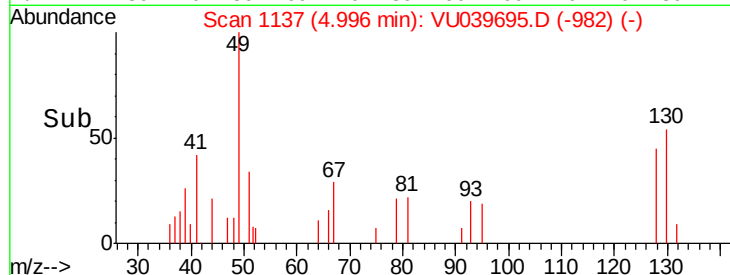
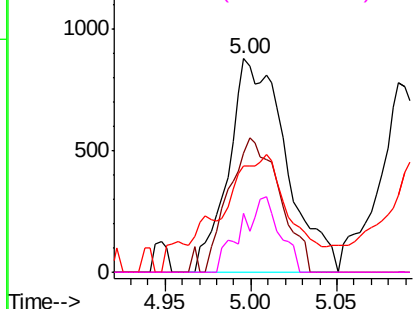
#39  
Methacrylonitrile  
Concen: 0.713 ug/l  
RT: 5.00 min Scan# 1137  
Delta R.T. -0.00 min  
Lab File: VU039695.D  
Acq: 29 Jul 2020 10:40

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC0.5

Tot Ion: 41 Resp: 2054  
Ion Ratio Lower Upper  
41 100  
67 55.6 48.3 72.5  
39 41.4 47.6 71.4#  
52 23.6 23.9 35.9#

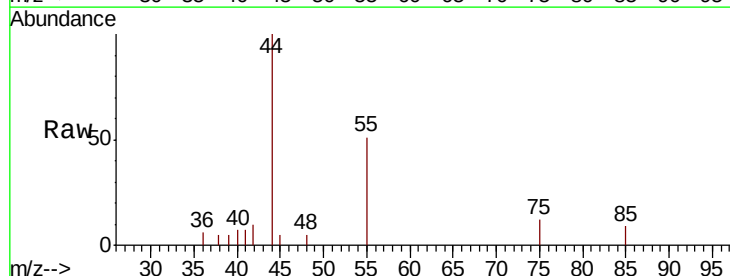


Abundance Ion 41.00 (40.70 to 41.70): VU0  
Ion 67.00 (66.70 to 67.70): VU0  
Ion 39.00 (38.70 to 39.70): VU0  
Ion 52.00 (51.70 to 52.70): VU0

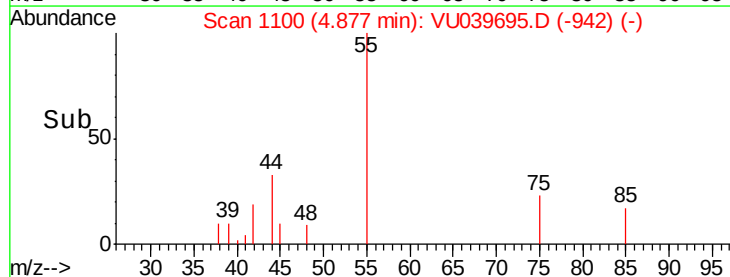
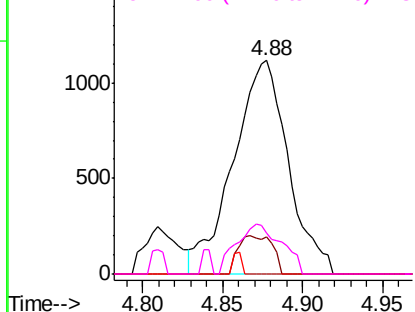


#40  
Methyl acrylate  
Concen: 0.628 ug/l  
RT: 4.88 min Scan# 1100  
Delta R.T. 0.01 min  
Lab File: VU039695.D  
Acq: 29 Jul 2020 10:40

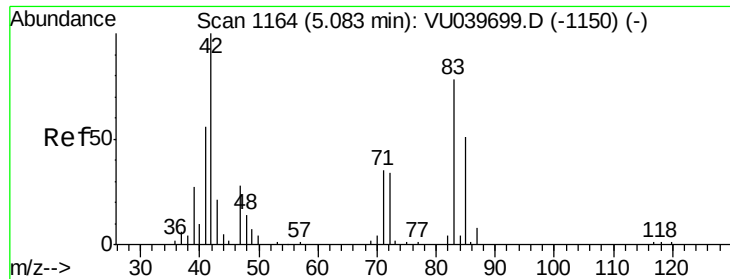
Tgt Ion: 55 Resp: 2630  
Ion Ratio Lower Upper  
55 100  
85 10.9 11.4 17.0#  
58 1.6 7.4 11.0#  
42 19.1 10.3 15.5#



Abundance Ion 55.00 (54.70 to 55.70): VU0  
Ion 85.00 (84.70 to 85.70): VU0  
Ion 58.00 (57.70 to 58.70): VU0  
Ion 42.00 (41.70 to 42.70): VU0







#41

Tetrahydrofuran

Concen: 1.762 ug/l

RT: 5.10 min Scan# 1168

Delta R.T. 0.01 min

Lab File: VU039695.D

Acq: 29 Jul 2020 10:40

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC0.5

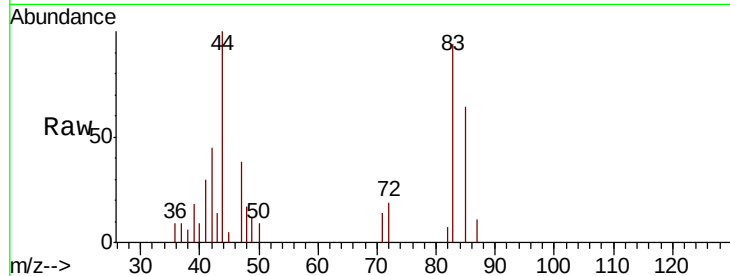
Tot Ion: 42 Resp: 2552

Ion Ratio Lower Upper

42 100

72 29.9 31.0 46.6#

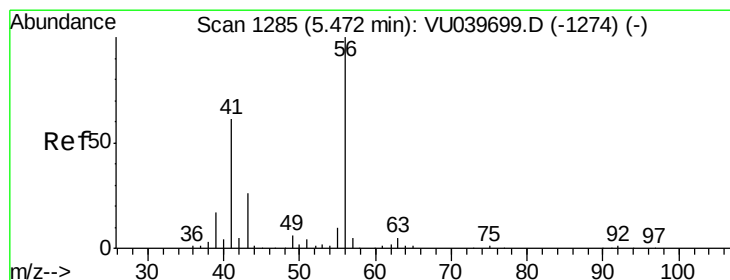
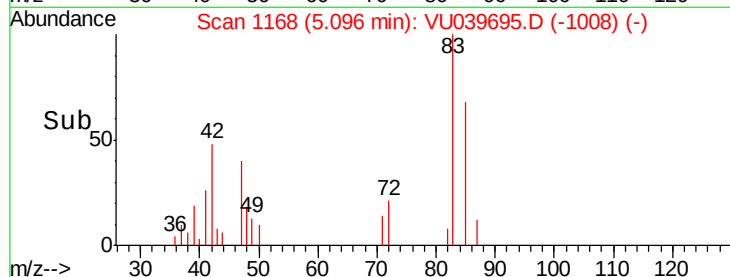
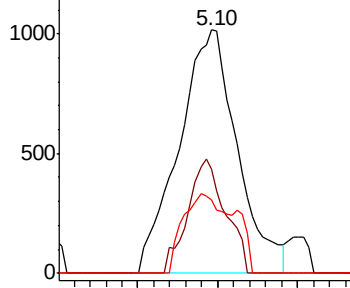
71 23.5 28.2 42.4#



Abundance Ion 42.00 (41.70 to 42.70): VU039699.D (-1150) (-)

Ion 72.00 (71.70 to 72.70): VU039699.D (-1150) (-)

Ion 71.00 (70.70 to 71.70): VU039699.D (-1150) (-)



#42

1-Chlorobutane

Concen: 0.512 ug/l

RT: 5.47 min Scan# 1284

Delta R.T. -0.00 min

Lab File: VU039695.D

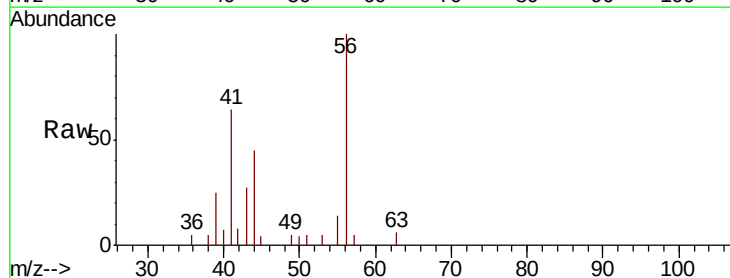
Acq: 29 Jul 2020 10:40

Tgt Ion: 56 Resp: 7439

Ion Ratio Lower Upper

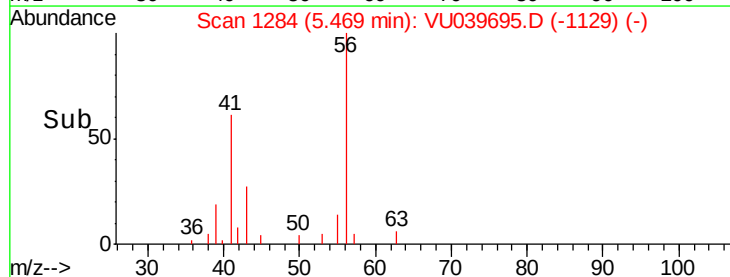
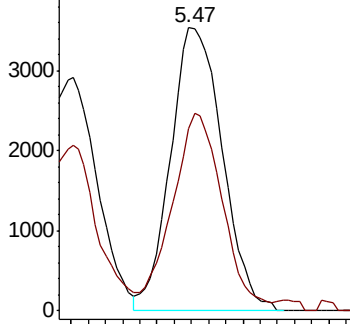
56 100

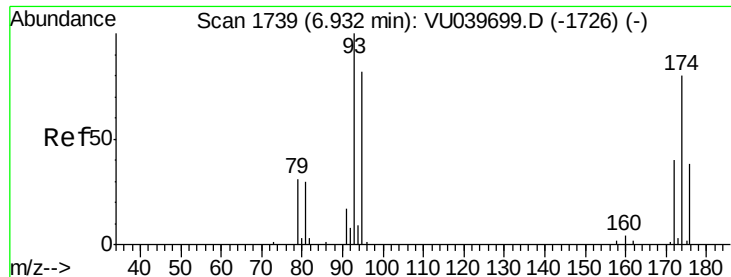
41 62.1 30.5 91.5



Abundance Ion 56.00 (55.70 to 56.70): VU039699.D (-1274) (-)

Ion 41.00 (40.70 to 41.70): VU039699.D (-1274) (-)





#43

Dibromomethane

Concen: 0.490 ug/l

RT: 6.93 min Scan# 1739

Delta R.T. 0.00 min

Lab File: VU039695.D

Acq: 29 Jul 2020 10:40

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC0.5

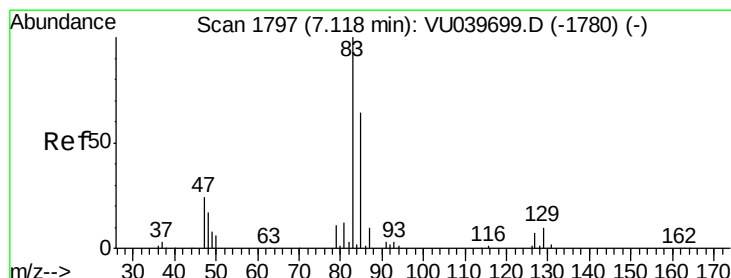
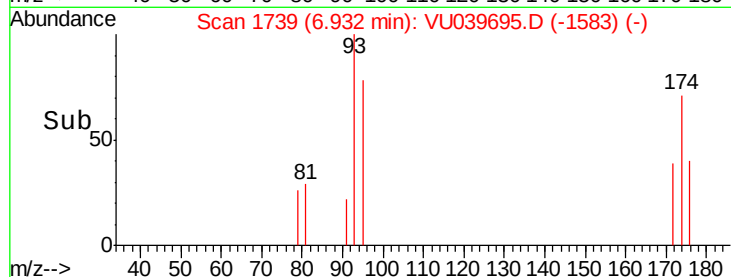
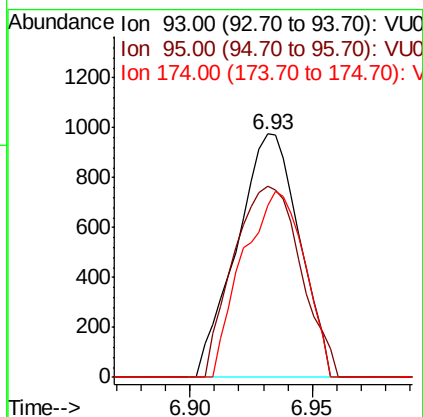
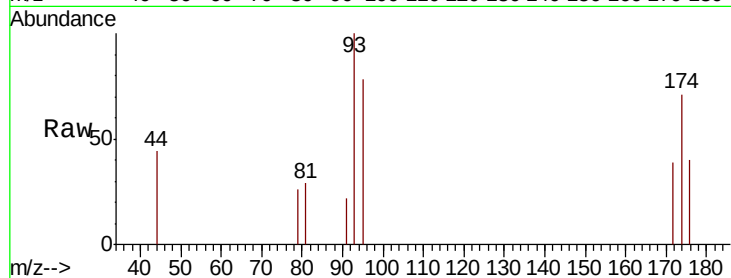
Tot Ion: 93 Resp: 1726

Ion Ratio Lower Upper

93 100

95 85.3 66.6 99.8

174 75.9 62.7 94.1



#44

Bromodichloromethane

Concen: 0.450 ug/l

RT: 7.12 min Scan# 1798

Delta R.T. 0.00 min

Lab File: VU039695.D

Acq: 29 Jul 2020 10:40

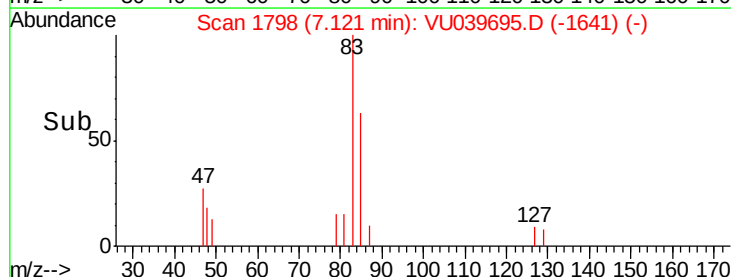
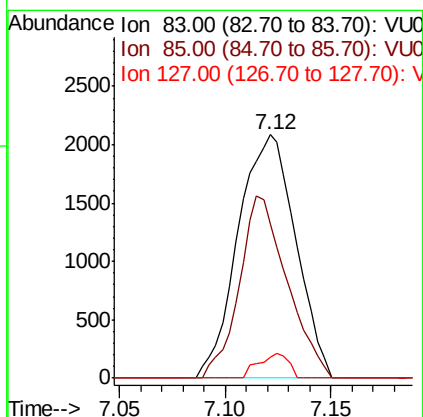
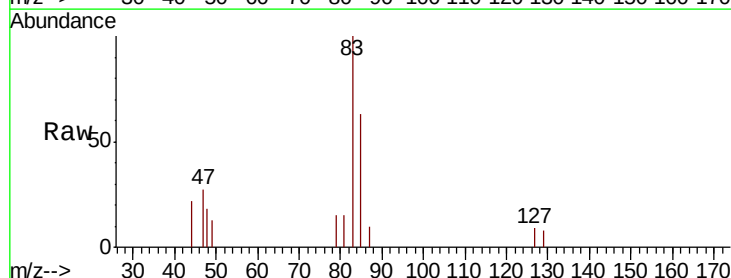
Tgt Ion: 83 Resp: 3941

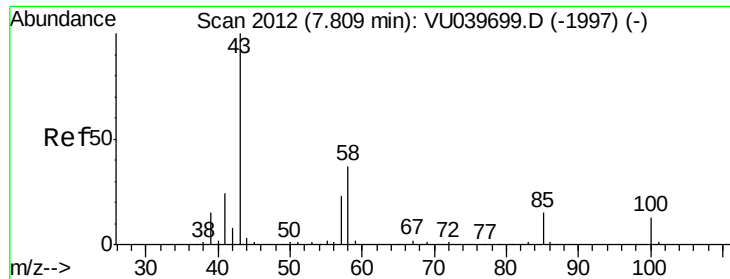
Ion Ratio Lower Upper

83 100

85 63.2 50.8 76.2

127 8.6 5.8 8.6

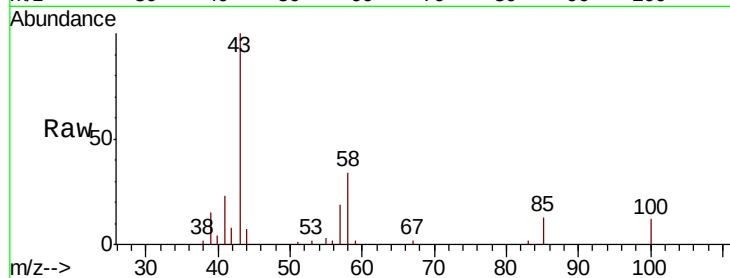




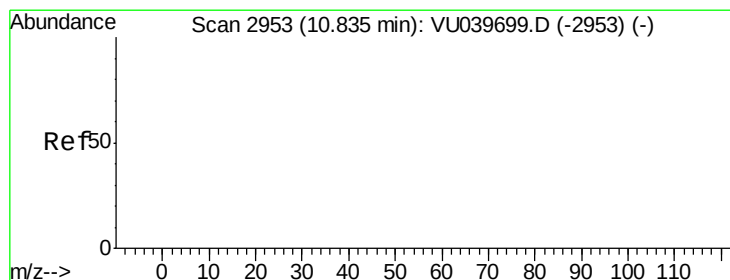
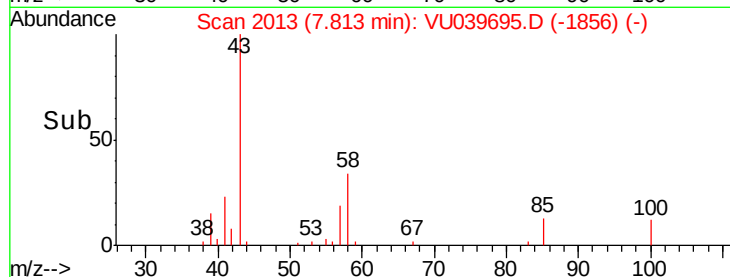
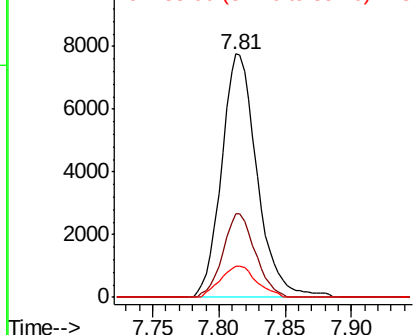
#45  
4-Methyl-2-Pentanone  
Concen: 2.908 ug/l  
RT: 7.81 min Scan# 2013  
Delta R.T. 0.00 min  
Lab File: VU039695.D  
Acq: 29 Jul 2020 10:40

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC0.5

Tot Ion: 43 Resp: 14428  
Ion Ratio Lower Upper  
43 100  
58 31.3 18.4 55.0  
85 12.9 11.8 17.6

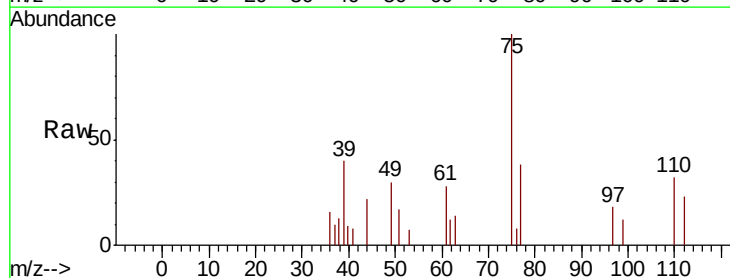


Abundance Ion 43.00 (42.70 to 43.70): VU0  
Ion 58.00 (57.70 to 58.70): VU0  
Ion 85.00 (84.70 to 85.70): VU0

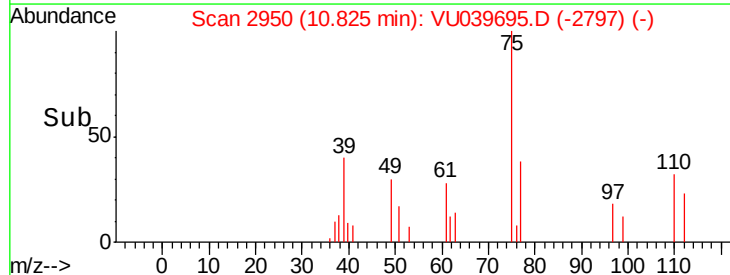
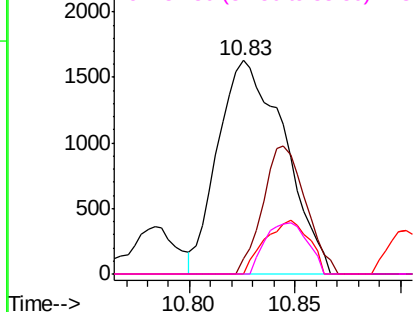


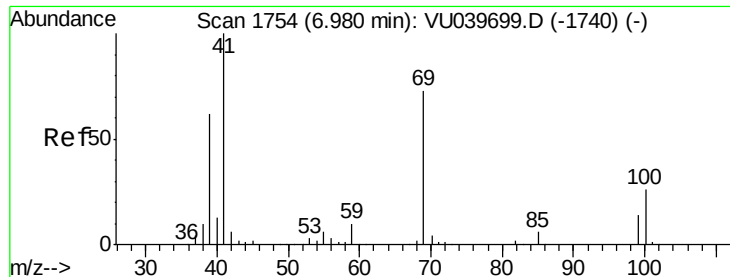
#46  
t-1,4-Dichloro-2-butene  
Concen: 2.362 ug/l  
RT: 10.83 min Scan# 2950  
Delta R.T. -0.01 min  
Lab File: VU039695.D  
Acq: 29 Jul 2020 10:40

Tgt Ion: 75 Resp: 3581  
Ion Ratio Lower Upper  
75 100  
53 38.5 78.6 118.0#  
89 16.5 40.3 60.5#  
88 15.2 34.0 51.0#



Abundance Ion 74.90 (74.60 to 75.60): VU0  
Ion 53.00 (52.70 to 53.70): VU0  
Ion 88.80 (88.50 to 89.50): VU0  
Ion 87.80 (87.50 to 88.50): VU0





#47

Methvl methacrylate

Concen: 0.846 ug/l

RT: 6.98 min Scan# 1754

Delta R.T. 0.00 min

Lab File: VU039695.D

Acq: 29 Jul 2020 10:40

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC0.5

Tot Ion: 69 Resp: 3021

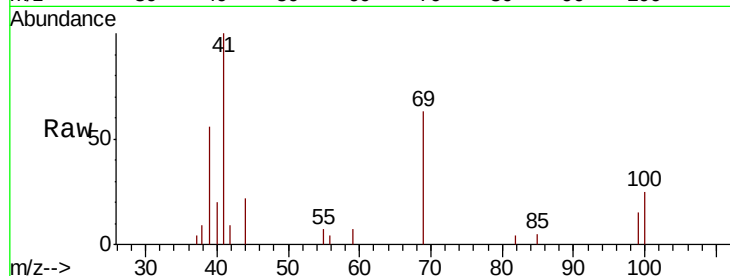
Ion Ratio Lower Upper

69 100

41 152.6 0.0 271.6

39 89.2 67.4 101.2

100 35.5 28.3 42.5

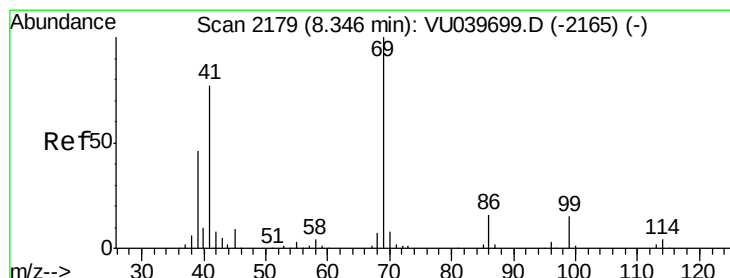
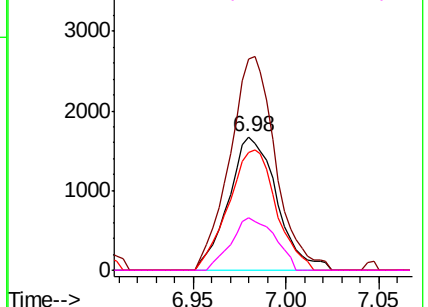
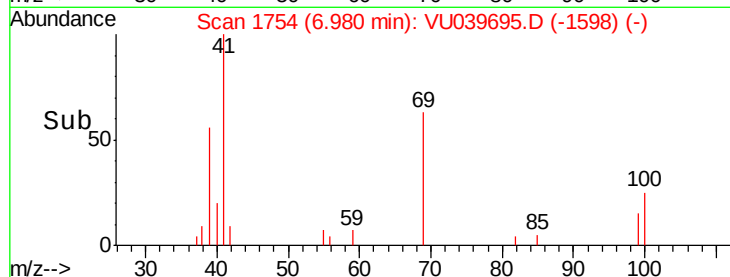


Abundance Ion 69.00 (68.70 to 69.70): VU039699.D (-1740) (-)

Ion 41.00 (40.70 to 41.70): VU039699.D (-1740) (-)

Ion 39.00 (38.70 to 39.70): VU039699.D (-1740) (-)

Ion 100.00 (99.70 to 100.70): VU039699.D (-1740) (-)



#48

Ethyl methacrylate

Concen: 0.431 ug/l

RT: 8.34 min Scan# 2178

Delta R.T. -0.00 min

Lab File: VU039695.D

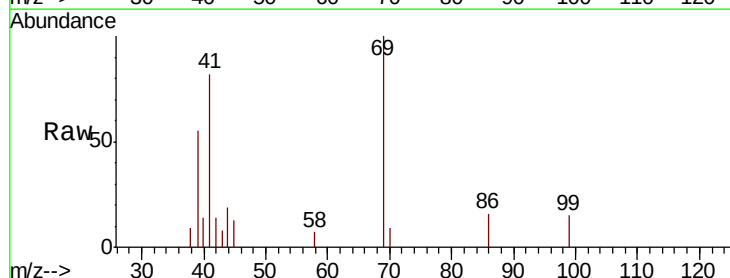
Acq: 29 Jul 2020 10:40

Tgt Ion: 69 Resp: 2835

Ion Ratio Lower Upper

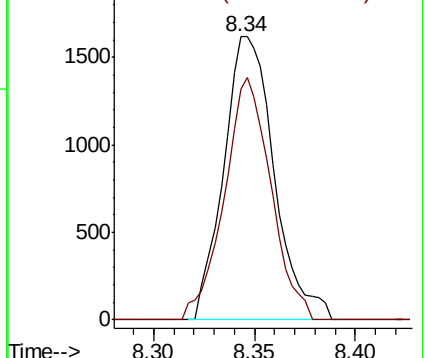
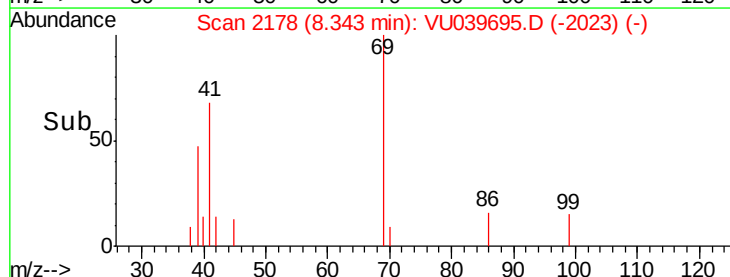
69 100

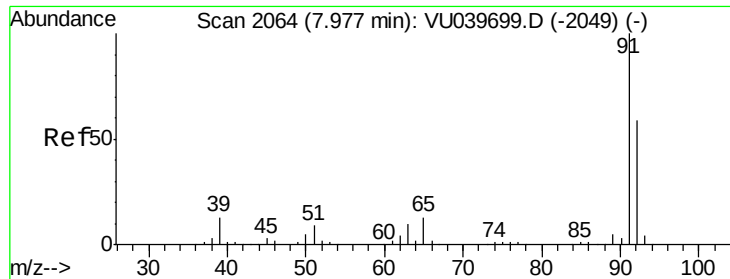
41 78.8 39.1 117.5



Abundance Ion 69.00 (68.70 to 69.70): VU039699.D (-2165) (-)

Ion 41.00 (40.70 to 41.70): VU039699.D (-2165) (-)





#49

Toluene

Concen: 0.400 ug/l

RT: 7.98 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VU039695.D

Acq: 29 Jul 2020 10:40

Instrument :

MSVOA\_U

ClientSampleId :

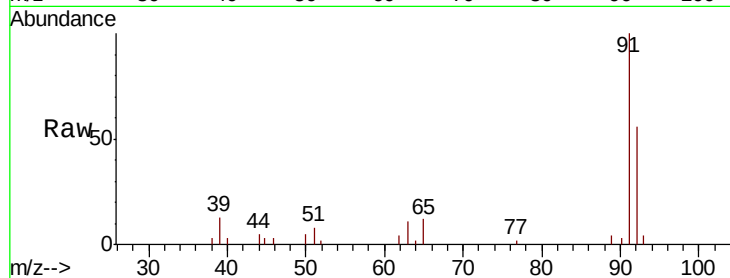
VSTDIC0.5

Tot Ion: 92 Resp: 6870

Ion Ratio Lower Upper

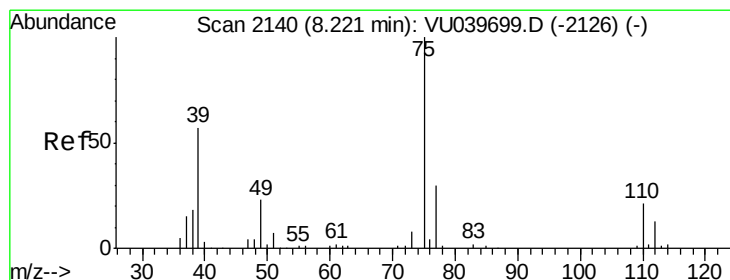
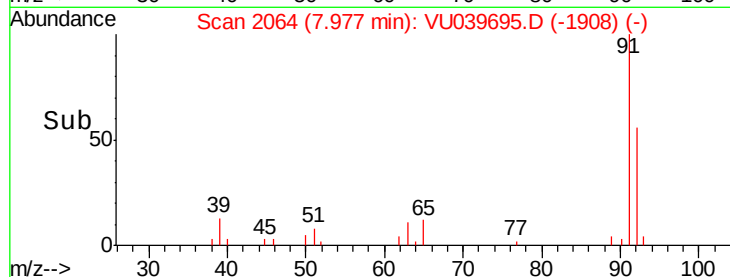
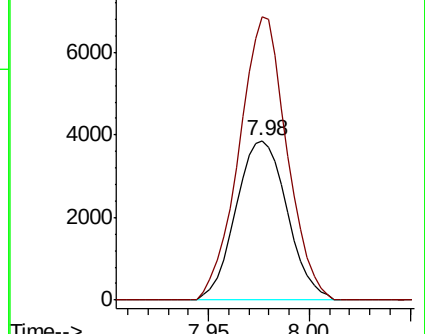
92 100

91 165.4 136.1 204.1



Abundance Ion 92.00 (91.70 to 92.70): VU039699.D (-2049) (-)

Ion 91.00 (90.70 to 91.70): VU039699.D (-2049) (-)



#50

t-1,3-Dichloropropene

Concen: 0.378 ug/l

RT: 8.22 min Scan# 2140

Delta R.T. 0.00 min

Lab File: VU039695.D

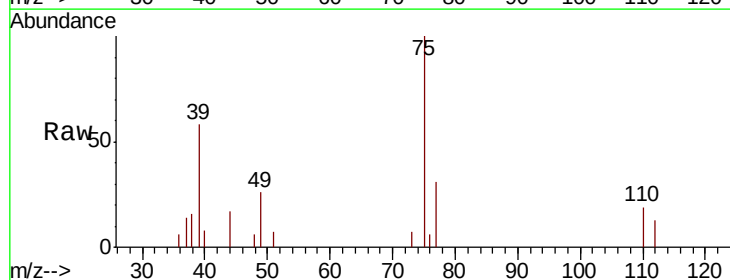
Acq: 29 Jul 2020 10:40

Tgt Ion: 75 Resp: 3334

Ion Ratio Lower Upper

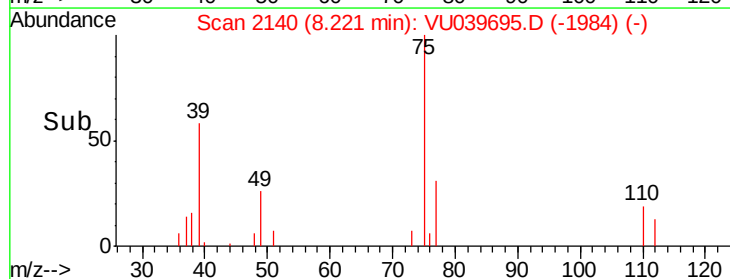
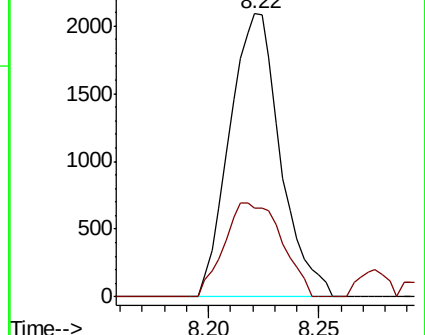
75 100

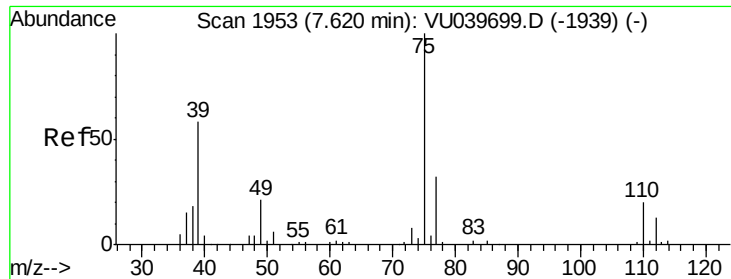
77 31.3 24.3 36.5



Abundance Ion 75.00 (74.70 to 75.70): VU039699.D (-2126) (-)

Ion 77.00 (76.70 to 77.70): VU039699.D (-2126) (-)



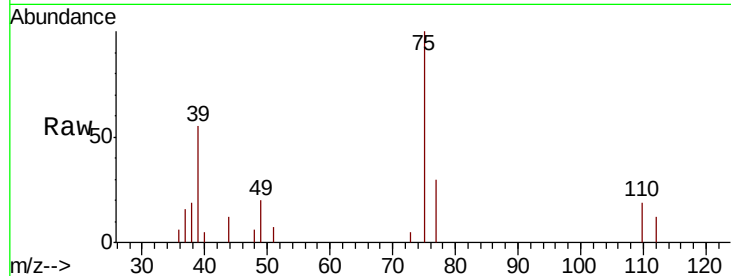


#51

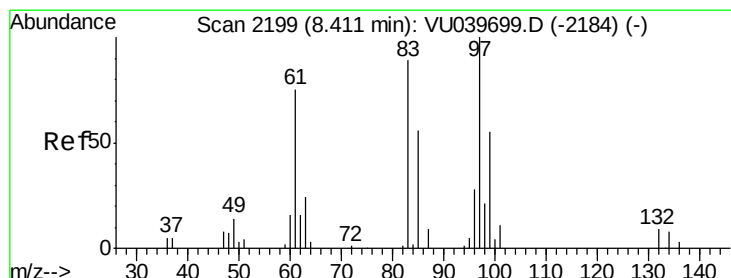
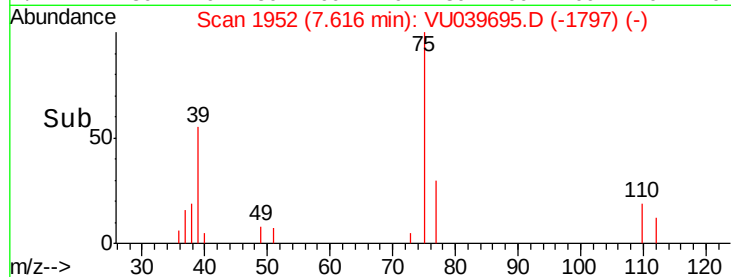
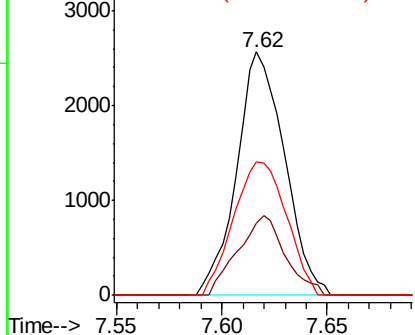
cis-1,3-Dichloropropene  
Concen: 0.385 ug/l  
RT: 7.62 min Scan# 1952  
Delta R.T. -0.00 min  
Lab File: VU039695.D  
Acq: 29 Jul 2020 10:40

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC0.5

Tot Ion: 75 Resp: 4038  
Ion Ratio Lower Upper  
75 100  
77 29.7 25.7 38.5  
39 54.9 46.1 69.1



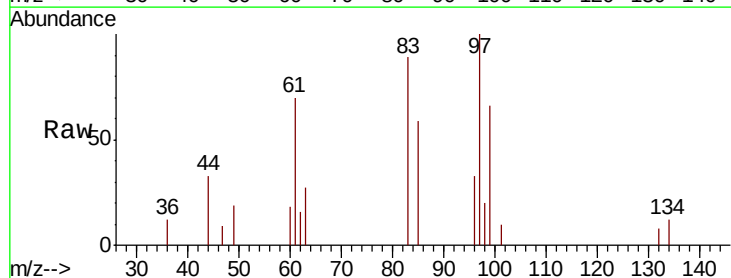
Abundance Ion 75.00 (74.70 to 75.70): VU0  
Ion 77.00 (76.70 to 77.70): VU0  
Ion 39.00 (38.70 to 39.70): VU0



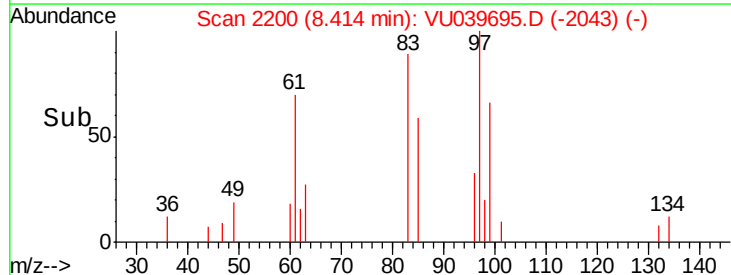
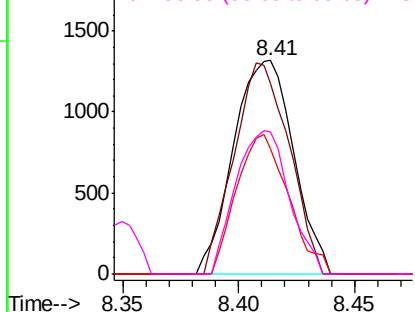
#52

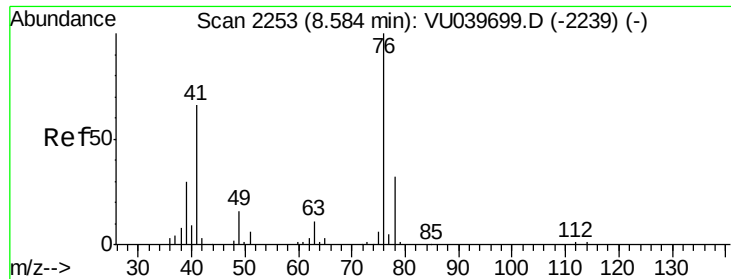
1,1,2-Trichloroethane  
Concen: 0.481 ug/l  
RT: 8.41 min Scan# 2200  
Delta R.T. 0.00 min  
Lab File: VU039695.D  
Acq: 29 Jul 2020 10:40

Tgt Ion: 97 Resp: 2370  
Ion Ratio Lower Upper  
97 100  
83 89.2 71.3 106.9  
85 58.6 45.4 68.2  
99 66.3 49.4 74.0



Abundance Ion 97.00 (96.70 to 97.70): VU0  
Ion 82.95 (82.65 to 83.65): VU0  
Ion 84.95 (84.65 to 85.65): VU0  
Ion 98.95 (98.65 to 99.65): VU0

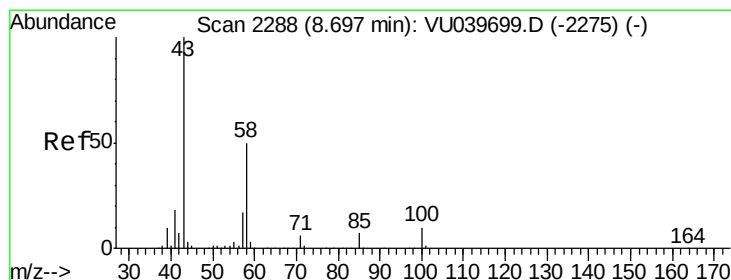
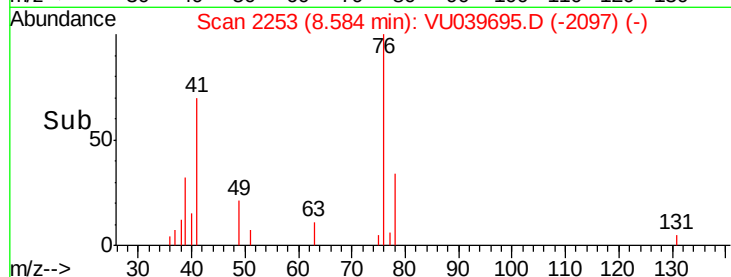
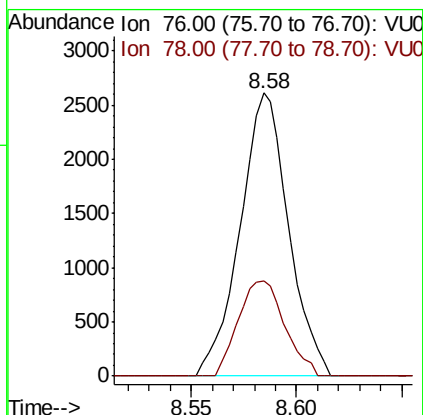
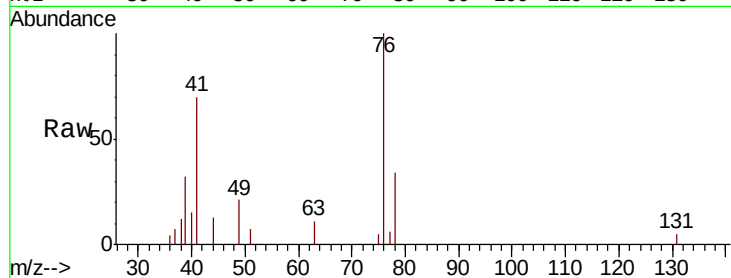




#53  
 1,3-Dichloropropane  
 Concen: 0.449 ug/l  
 RT: 8.58 min Scan# 2253  
 Delta R.T. 0.00 min  
 Lab File: VU039695.D  
 Acq: 29 Jul 2020 10:40

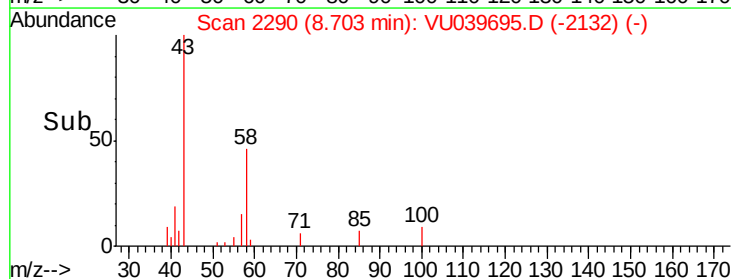
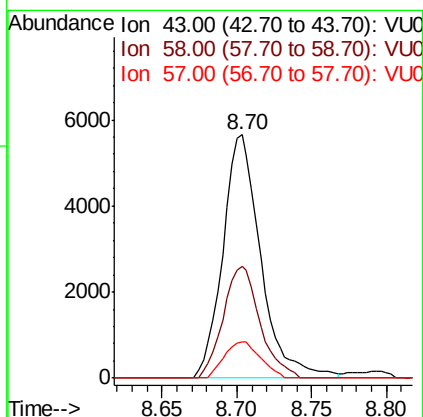
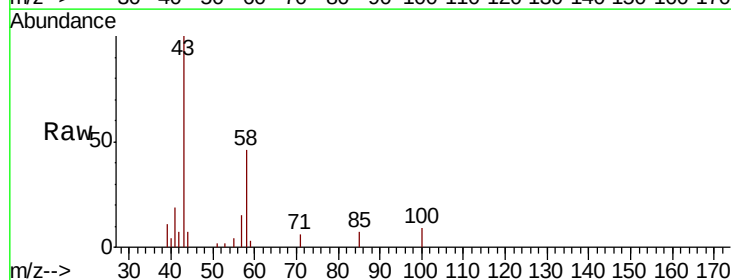
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC0.5

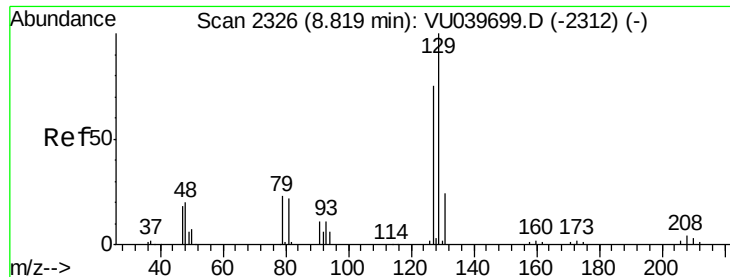
Tot Ion: 76 Resp: 4164  
 Ion Ratio Lower Upper  
 76 100  
 78 32.4 25.4 38.2



#54  
 2-Hexanone  
 Concen: 2.839 ug/l  
 RT: 8.70 min Scan# 2290  
 Delta R.T. 0.01 min  
 Lab File: VU039695.D  
 Acq: 29 Jul 2020 10:40

Tgt Ion: 43 Resp: 9988  
 Ion Ratio Lower Upper  
 43 100  
 58 44.2 29.9 69.9  
 57 14.2 0.0 37.2





#55

Dibromochloromethane

Concen: 0.415 ug/l

RT: 8.82 min Scan# 2326

Delta R.T. 0.00 min

Lab File: VU039695.D

Acq: 29 Jul 2020 10:40

Instrument :

MSVOA\_U

ClientSampleId :

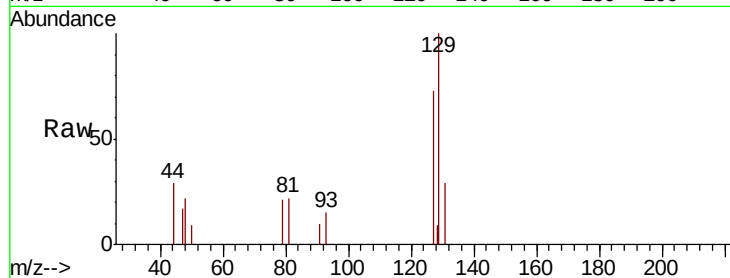
VSTDIC0.5

Tot Ion:129 Resp: 2263

Ion Ratio Lower Upper

129 100

127 74.8 62.4 93.6



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

8.82

1500

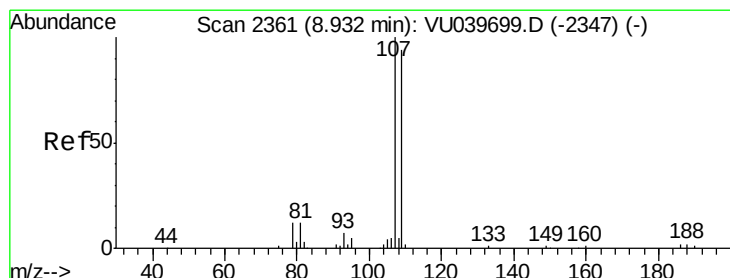
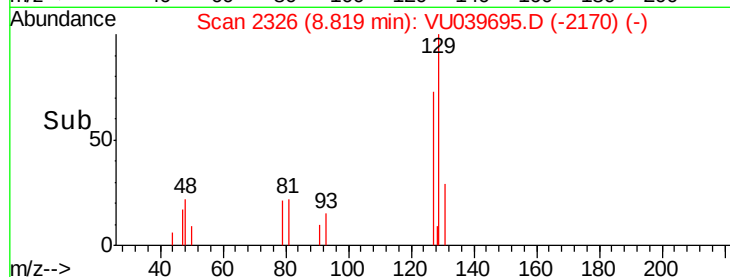
1000

500

0

8.80 8.85

Time-->



#56

1,2-Dibromoethane

Concen: 0.448 ug/l

RT: 8.93 min Scan# 2361

Delta R.T. 0.00 min

Lab File: VU039695.D

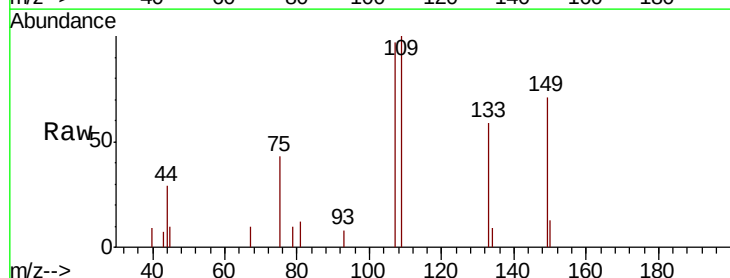
Acq: 29 Jul 2020 10:40

Tgt Ion:107 Resp: 2098

Ion Ratio Lower Upper

107 100

109 101.4 0.0 185.2



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

8.93

1500

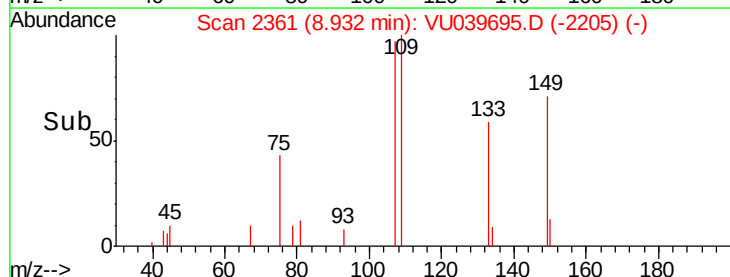
1000

500

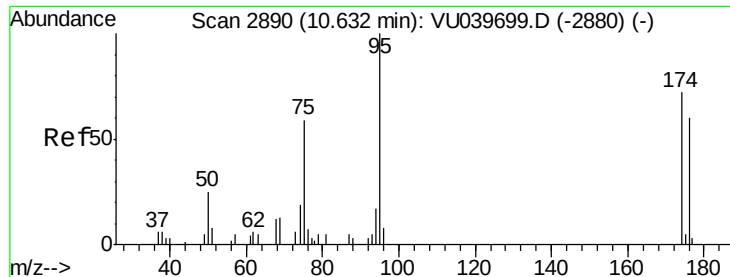
0

8.90 8.95

Time-->



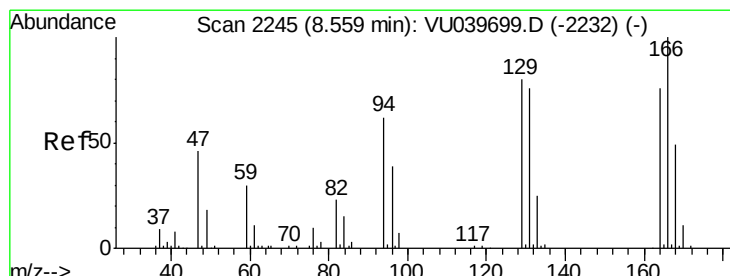
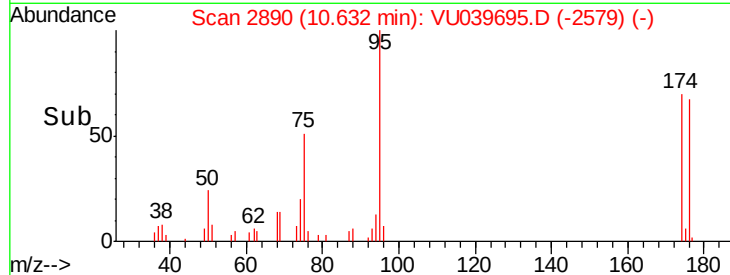
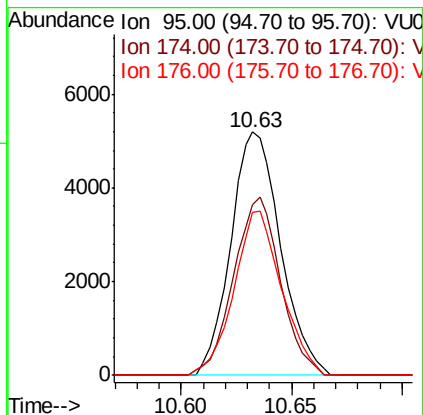
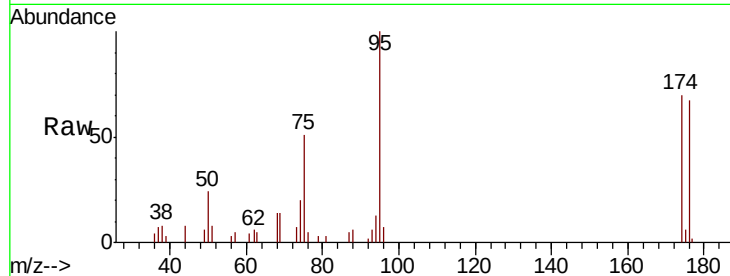




#57  
 4-Bromofluorobenzene  
 Concen: 0.908 ug/l  
 RT: 10.63 min Scan# 2890  
 Delta R.T. 0.00 min  
 Lab File: VU039695.D  
 Acq: 29 Jul 2020 10:40

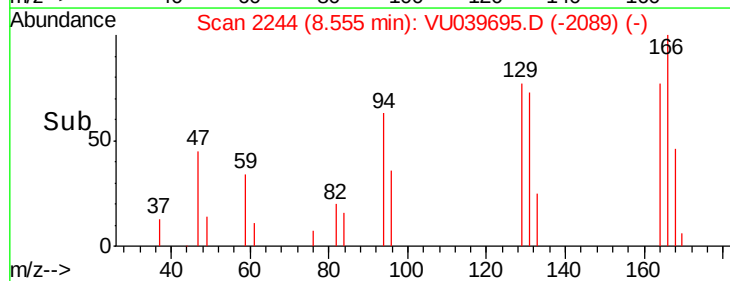
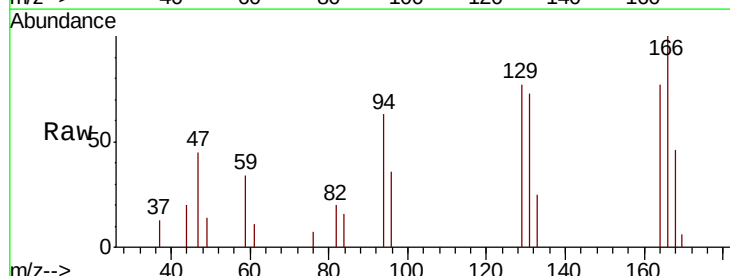
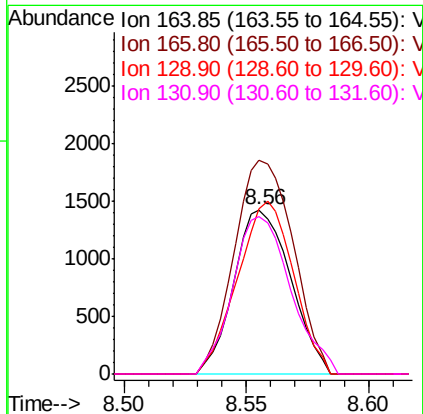
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC0.5

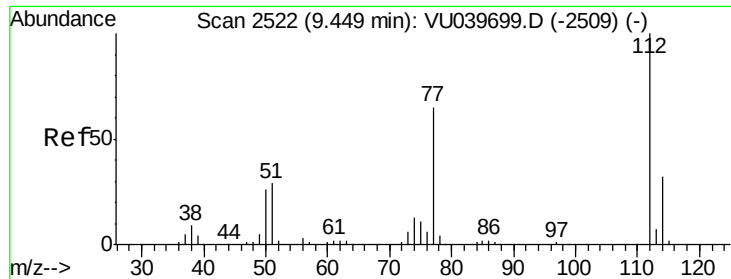
Tot Ion: 95 Resp: 8116  
 Ion Ratio Lower Upper  
 95 100  
 174 68.8 57.0 85.4  
 176 64.5 50.2 75.2



#58  
 Tetrachloroethene  
 Concen: 0.356 ug/l  
 RT: 8.56 min Scan# 2244  
 Delta R.T. -0.00 min  
 Lab File: VU039695.D  
 Acq: 29 Jul 2020 10:40

Tgt Ion: 164 Resp: 2301  
 Ion Ratio Lower Upper  
 164 100  
 166 130.2 104.8 157.2  
 129 100.6 84.1 126.1  
 131 95.6 80.1 120.1

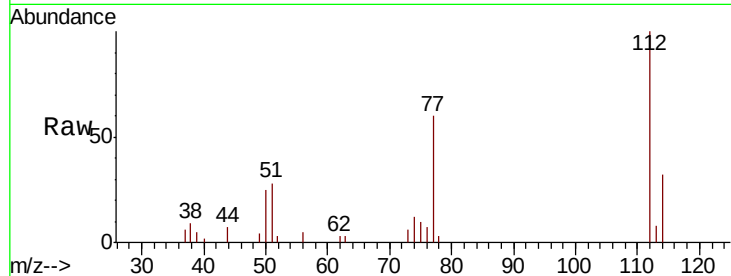




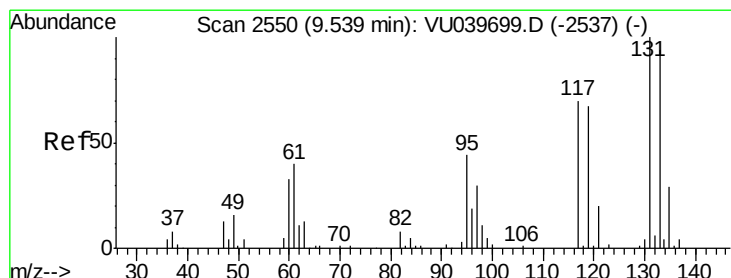
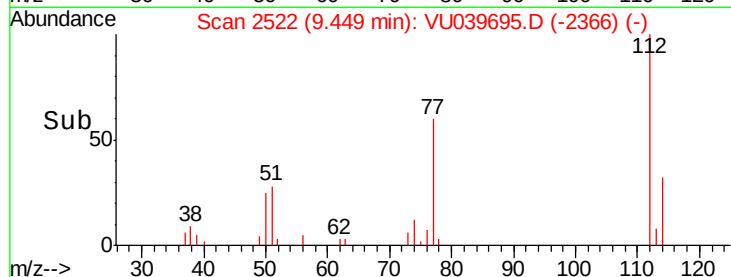
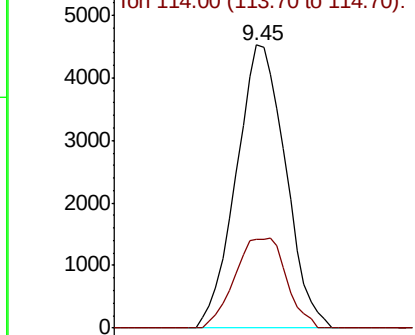
#59  
Chlorobenzene  
Concen: 0.404 ug/l  
RT: 9.45 min Scan# 2522  
Delta R.T. 0.00 min  
Lab File: VU039695.D  
Acq: 29 Jul 2020 10:40

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC0.5

Tot Ion:112 Resp: 7336  
Ion Ratio Lower Upper  
112 100  
114 31.5 25.8 38.6

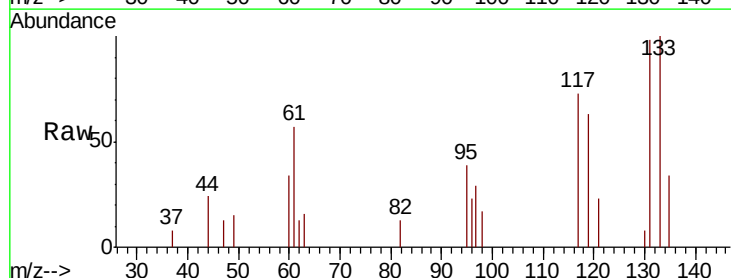


Abundance Ion 112.00 (111.70 to 112.70): V  
Ion 114.00 (113.70 to 114.70): V

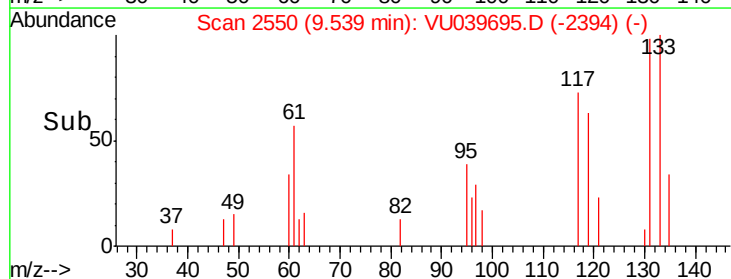
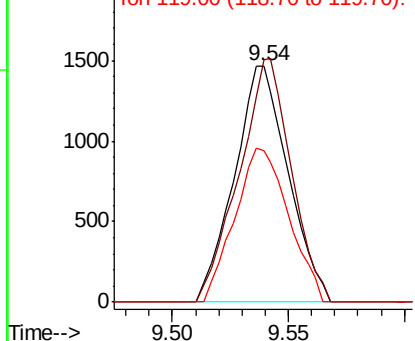


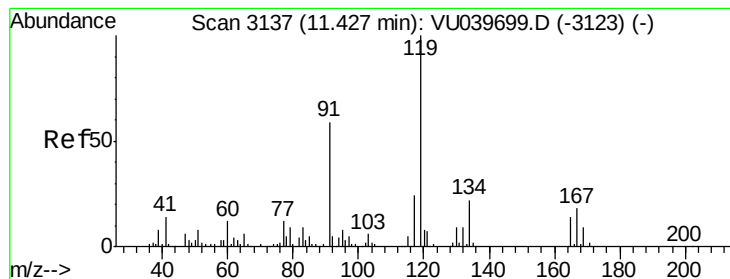
#60  
1,1,1,2-Tetrachloroethane  
Concen: 0.422 ug/l  
RT: 9.54 min Scan# 2550  
Delta R.T. 0.00 min  
Lab File: VU039695.D  
Acq: 29 Jul 2020 10:40

Tgt Ion:131 Resp: 2358  
Ion Ratio Lower Upper  
131 100  
133 100.1 75.8 113.8  
119 65.4 54.6 81.8



Abundance Ion 131.00 (130.70 to 131.70): V  
Ion 133.00 (132.70 to 133.70): V  
Ion 119.00 (118.70 to 119.70): V





#61

Pentachloroethane

Concen: 0.478 ug/l

RT: 11.43 min Scan# 3137

Delta R.T. 0.00 min

Lab File: VU039695.D

Acq: 29 Jul 2020 10:40

Instrument :

MSVOA\_U

ClientSampleId :

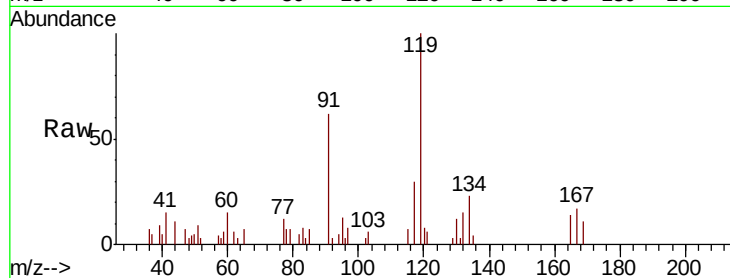
VSTDIC0.5

Tot Ion:117 Resp: 2068

Ion Ratio Lower Upper

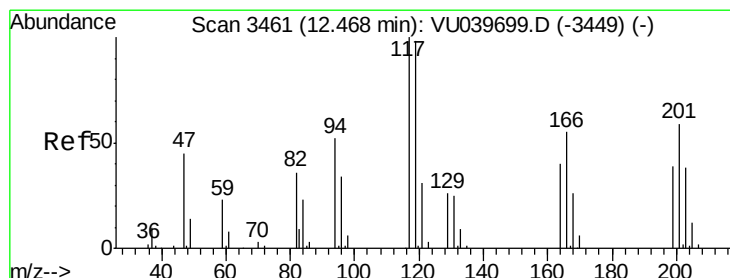
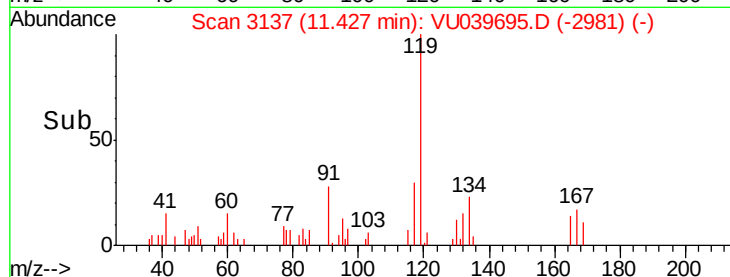
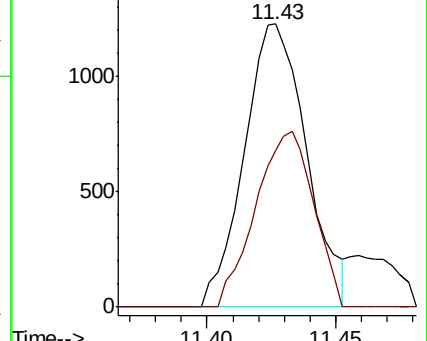
117 100

167 57.7 56.6 85.0



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 166.70 (166.40 to 167.40): V



#62

Hexachloroethane

Concen: 0.379 ug/l

RT: 12.47 min Scan# 3461

Delta R.T. 0.00 min

Lab File: VU039695.D

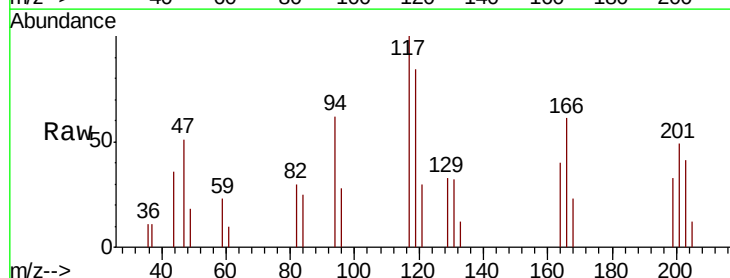
Acq: 29 Jul 2020 10:40

Tgt Ion:117 Resp: 1683

Ion Ratio Lower Upper

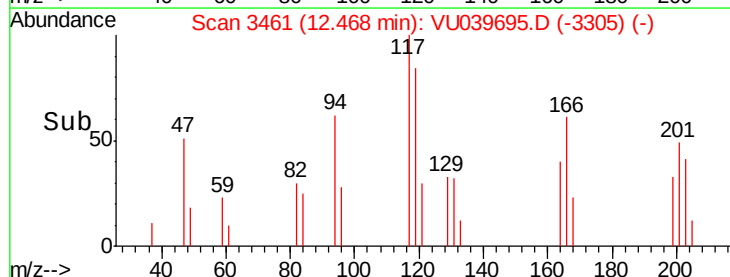
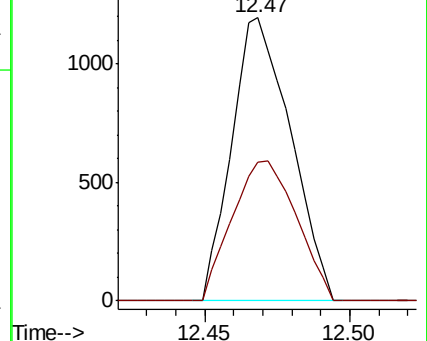
117 100

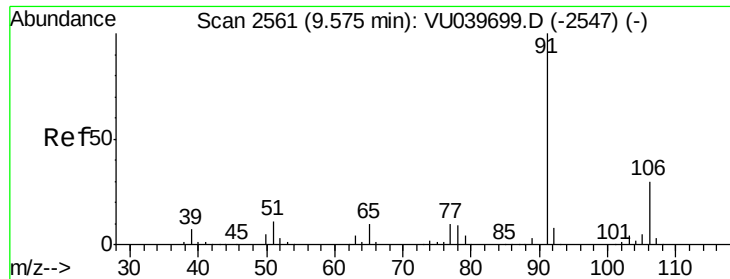
201 54.0 48.1 72.1



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.60 (200.30 to 201.30): V

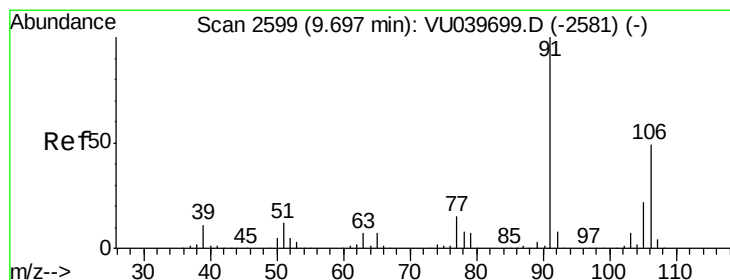
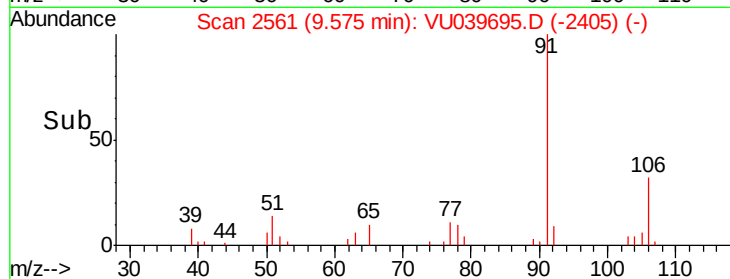
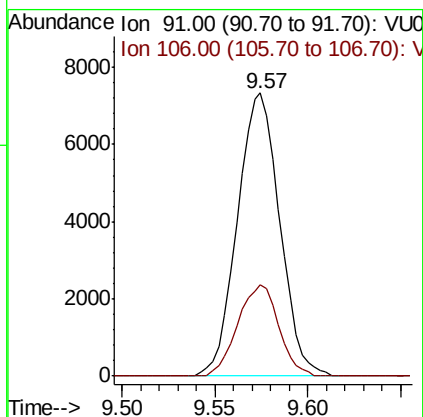
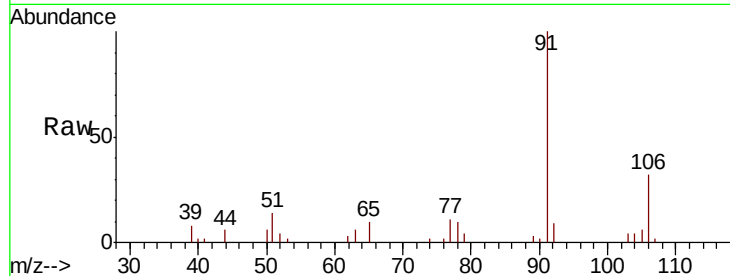




#63  
Ethyl Benzene  
Concen: 0.356 ug/l  
RT: 9.57 min Scan# 2561  
Delta R.T. 0.00 min  
Lab File: VU039695.D  
Acq: 29 Jul 2020 10:40

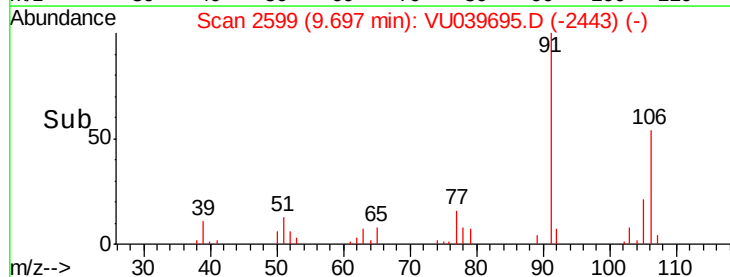
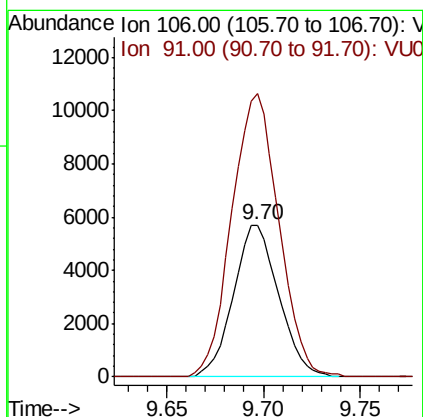
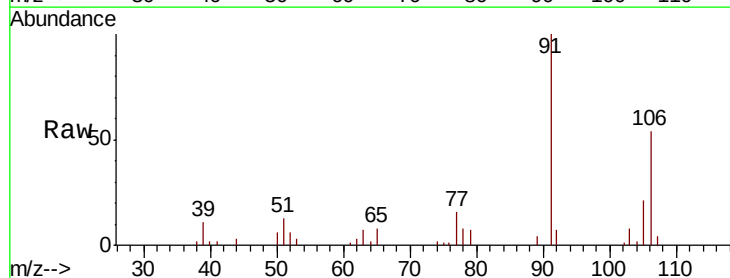
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC0.5

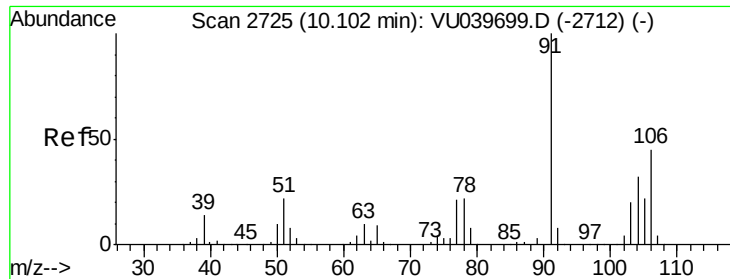
Tot Ion: 91 Resp: 11583  
Ion Ratio Lower Upper  
91 100  
106 32.1 24.2 36.4



#64  
m/p-Xylenes  
Concen: 0.737 ug/l  
RT: 9.70 min Scan# 2599  
Delta R.T. 0.00 min  
Lab File: VU039695.D  
Acq: 29 Jul 2020 10:40

Tgt Ion: 106 Resp: 9259  
Ion Ratio Lower Upper  
106 100  
91 194.4 163.9 245.9

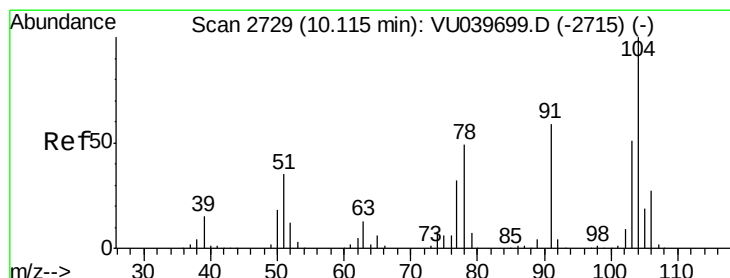
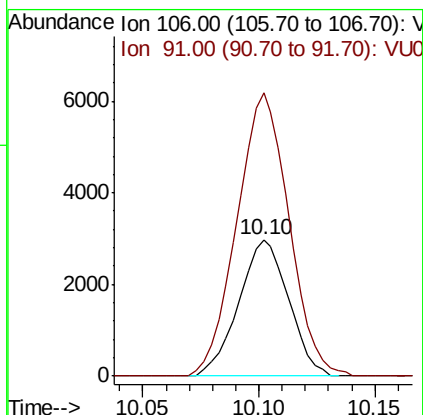
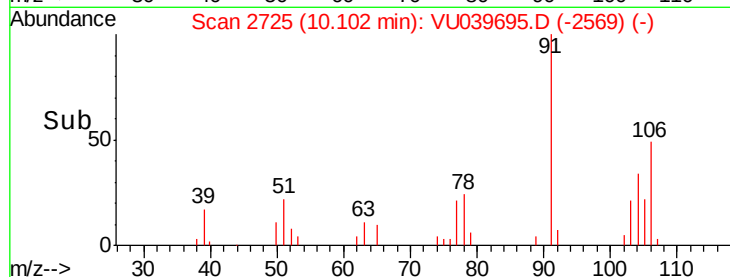
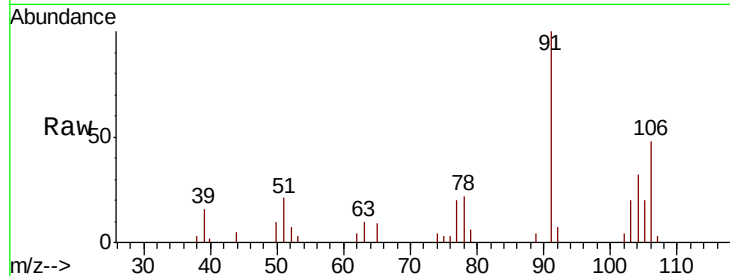




#65  
o-Xylene  
Concen: 0.364 ug/l  
RT: 10.10 min Scan# 2725  
Delta R.T. 0.00 min  
Lab File: VU039695.D  
Acq: 29 Jul 2020 10:40

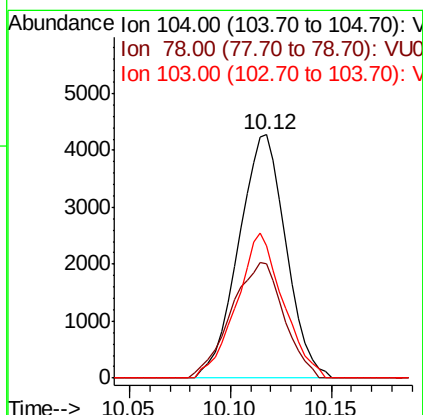
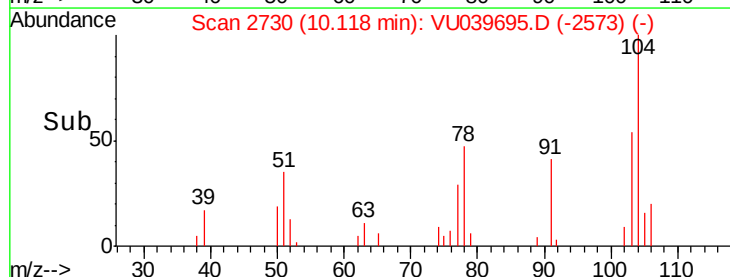
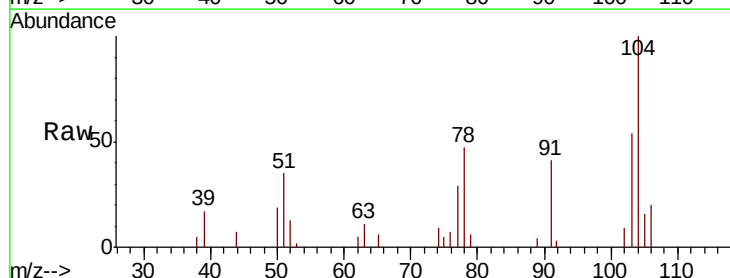
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC0.5

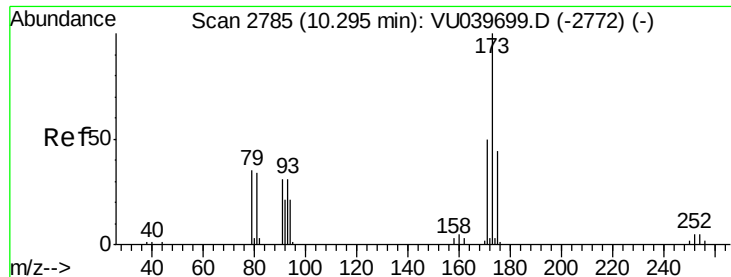
Tot Ion:106 Resp: 4435  
Ion Ratio Lower Upper  
106 100  
91 217.6 110.3 331.0



#66  
Styrene  
Concen: 0.347 ug/l  
RT: 10.12 min Scan# 2730  
Delta R.T. 0.00 min  
Lab File: VU039695.D  
Acq: 29 Jul 2020 10:40

Tgt Ion:104 Resp: 7027  
Ion Ratio Lower Upper  
104 100  
78 52.7 42.2 63.4  
103 58.4 43.4 65.2





#67

Bromoform

Concen: 0.339 ug/l

RT: 10.29 min Scan# 2784

Delta R.T. -0.00 min

Lab File: VU039695.D

Acq: 29 Jul 2020 10:40

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC0.5

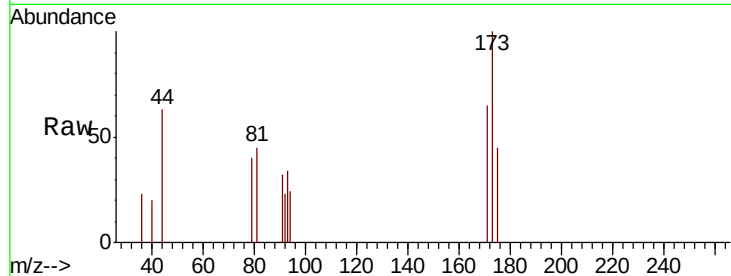
Tot Ion:173 Resp: 972

Ion Ratio Lower Upper

173 100

175 34.8 36.7 55.1#

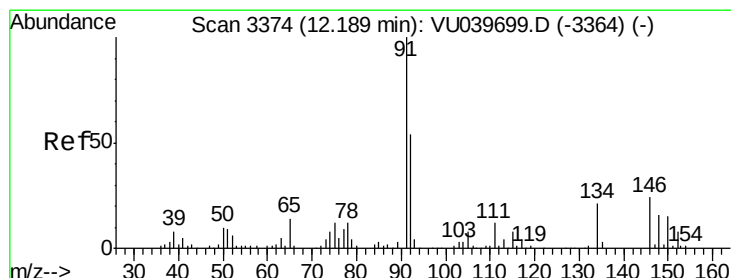
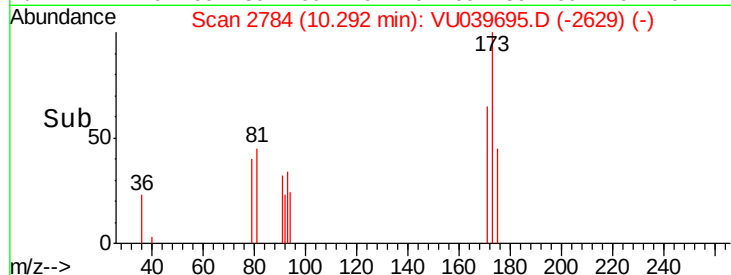
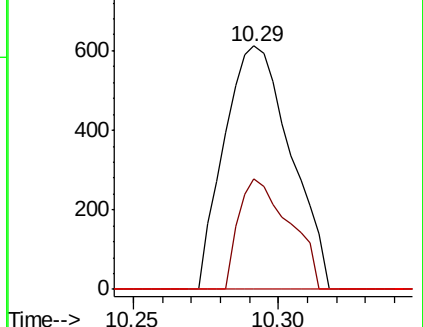
254 0.0 3.8 5.8#



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 253.75 (253.45 to 254.45): V



#68

1,2-Dichlorobenzene-d4

Concen: 0.803 ug/l

RT: 12.19 min Scan# 3374

Delta R.T. 0.00 min

Lab File: VU039695.D

Acq: 29 Jul 2020 10:40

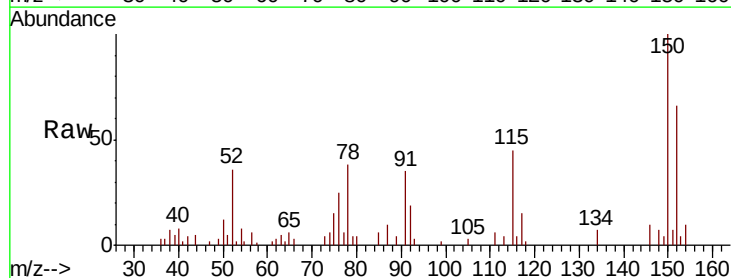
Tgt Ion:152 Resp: 6985

Ion Ratio Lower Upper

152 100

115 75.6 0.0 302.4

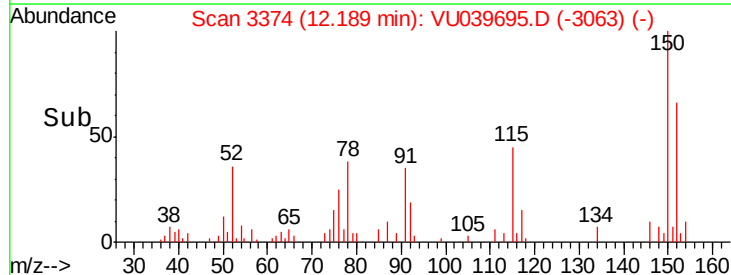
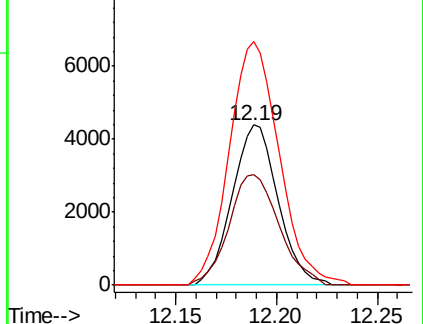
150 165.4 0.0 645.8

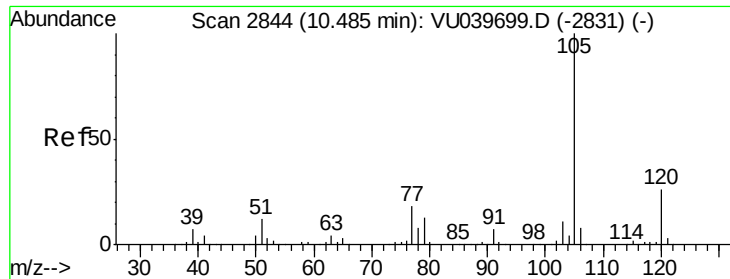


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#69

Isopropylbenzene

Concen: 0.365 ug/l

RT: 10.48 min Scan# 2844

Delta R.T. 0.00 min

Lab File: VU039695.D

Acq: 29 Jul 2020 10:40

Instrument :

MSVOA\_U

ClientSampleId :

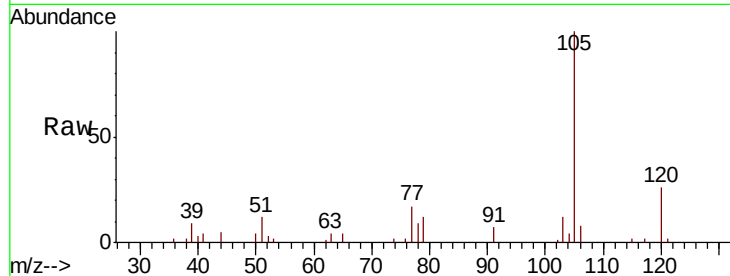
VSTDIC0.5

Tot Ion:105 Resp: 11621

Ion Ratio Lower Upper

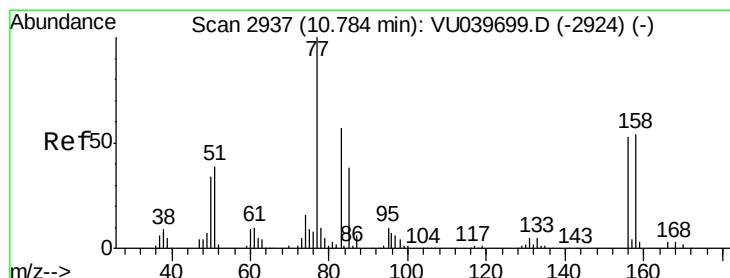
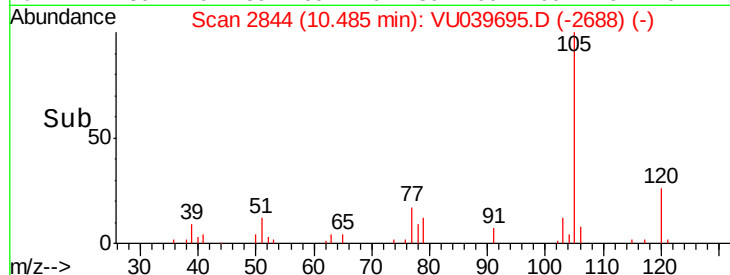
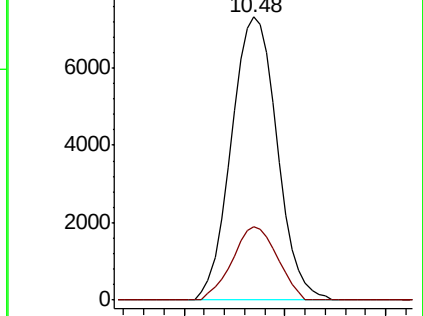
105 100

120 25.5 12.8 38.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#70

1,1,2,2-Tetrachloroethane

Concen: 0.500 ug/l

RT: 10.78 min Scan# 2937

Delta R.T. 0.00 min

Lab File: VU039695.D

Acq: 29 Jul 2020 10:40

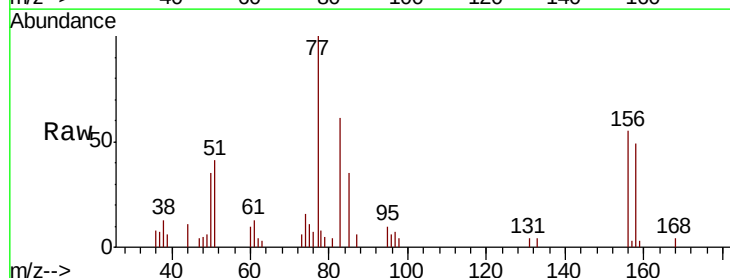
Tgt Ion: 83 Resp: 3235

Ion Ratio Lower Upper

83 100

131 4.3 7.0 10.6#

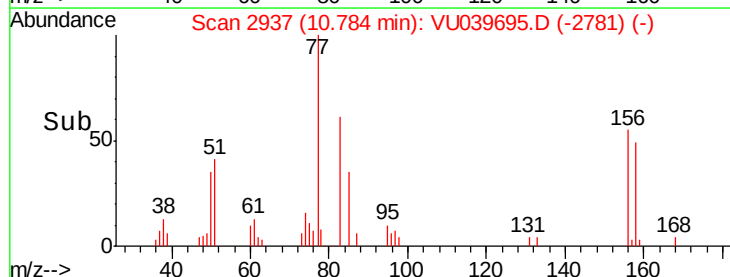
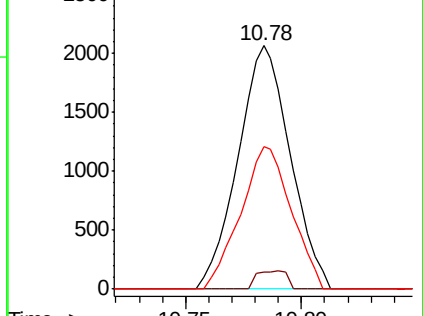
85 56.7 50.6 75.8

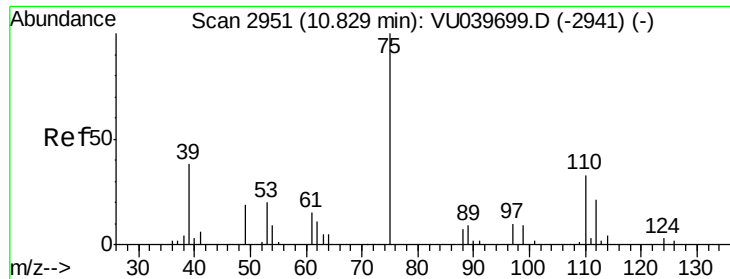


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VU0

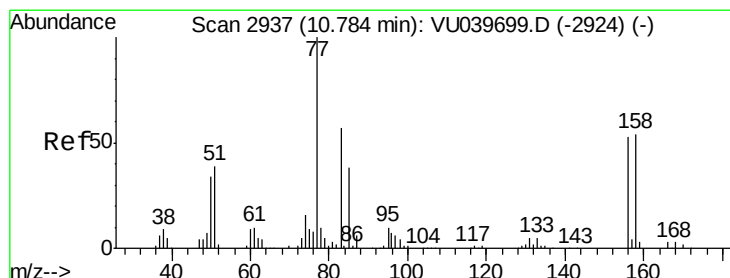
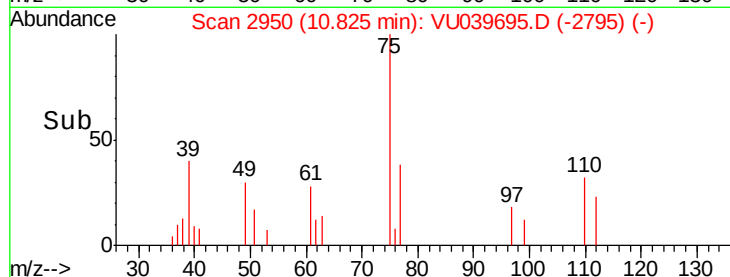
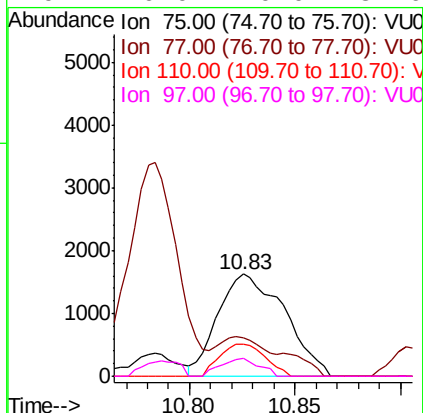
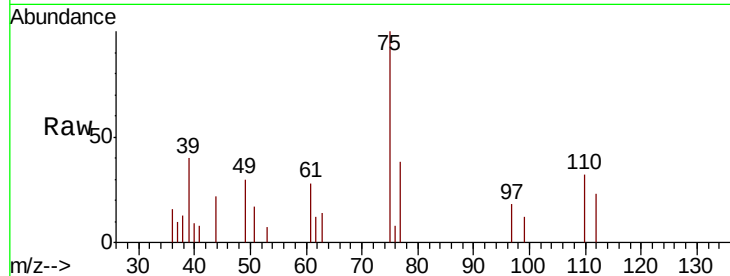




#71  
 1,2,3-Trichloropropane  
 Concen: 0.733 ug/l  
 RT: 10.83 min Scan# 2950  
 Delta R.T. -0.00 min  
 Lab File: VU039695.D  
 Acq: 29 Jul 2020 10:40

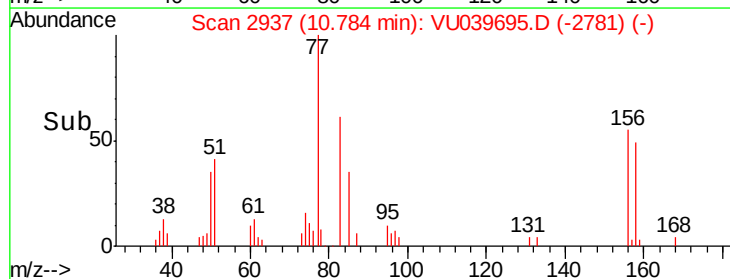
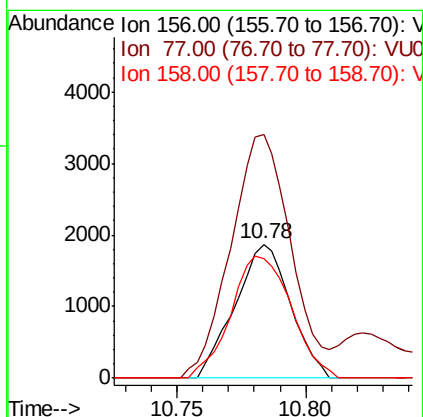
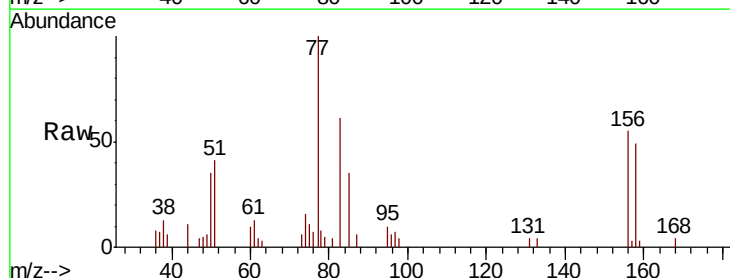
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC0.5

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 75    | Resp: | 3581  |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 77       | 36.2  | 0.0   | 91.0  |
| 110      | 21.5  | 0.0   | 64.2  |
| 97       | 10.0  | 0.0   | 32.6  |

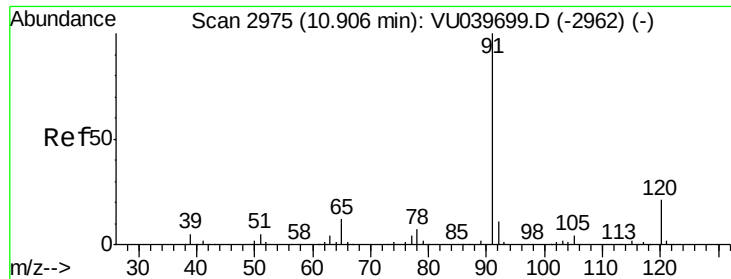


#72  
 Bromobenzene  
 Concen: 0.396 ug/l  
 RT: 10.78 min Scan# 2937  
 Delta R.T. 0.00 min  
 Lab File: VU039695.D  
 Acq: 29 Jul 2020 10:40

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 156   | Resp: | 2808  |
| Ion      | Ratio | Lower | Upper |
| 156      | 100   |       |       |
| 77       | 198.0 | 0.0   | 385.2 |
| 158      | 99.3  | 0.0   | 200.8 |



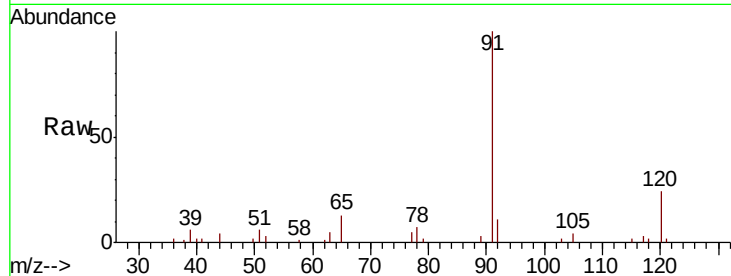




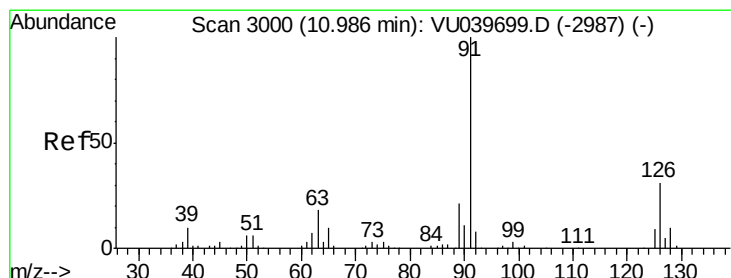
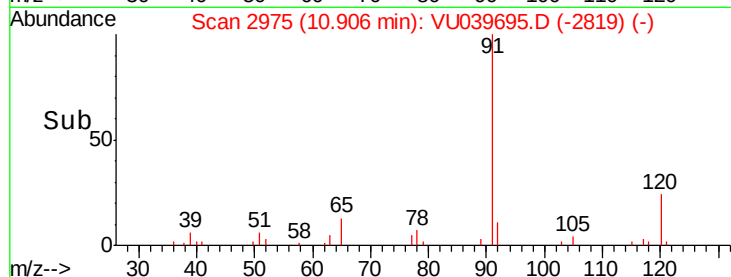
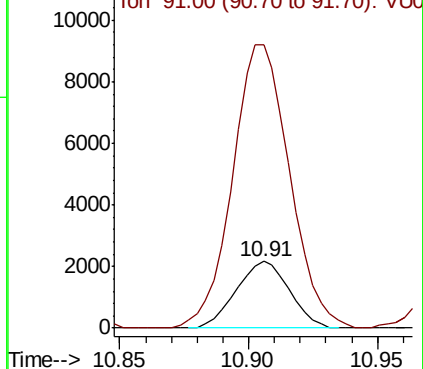
#73  
n-propylbenzene  
Concen: 0.356 ug/l  
RT: 10.91 min Scan# 2975  
Delta R.T. 0.00 min  
Lab File: VU039695.D  
Acq: 29 Jul 2020 10:40

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDIC0.5

Tot Ion:120 Resp: 3124  
Ion Ratio Lower Upper  
120 100  
91 454.4 371.7 557.5

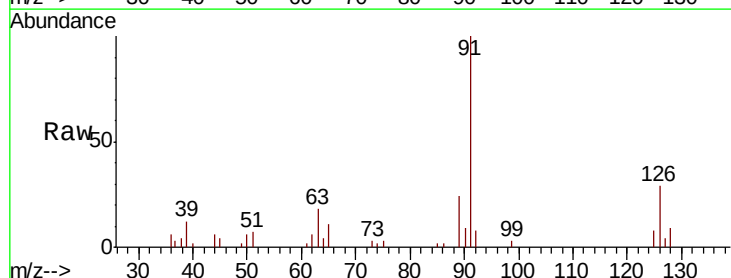


Abundance Ion 120.00 (119.70 to 120.70): V  
Ion 91.00 (90.70 to 91.70): VU0

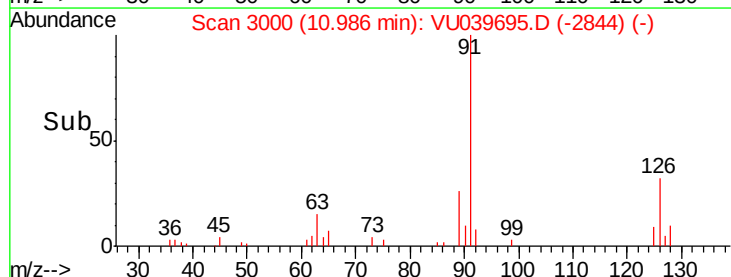
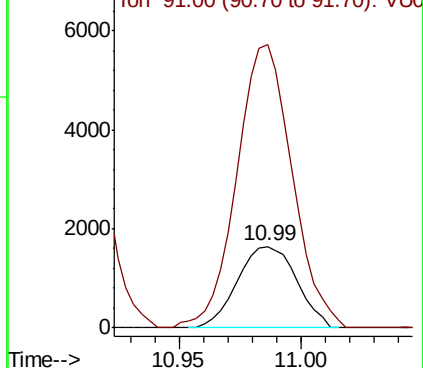


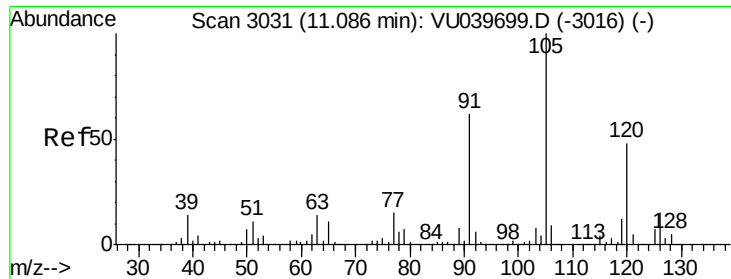
#74  
2-Chlorotoluene  
Concen: 0.375 ug/l  
RT: 10.99 min Scan# 3000  
Delta R.T. 0.00 min  
Lab File: VU039695.D  
Acq: 29 Jul 2020 10:40

Tgt Ion:126 Resp: 2760  
Ion Ratio Lower Upper  
126 100  
91 325.8 0.0 637.0



Abundance Ion 126.00 (125.70 to 126.70): V  
Ion 91.00 (90.70 to 91.70): VU0





#75

1,3,5-Trimethylbenzene

Concen: 0.353 ug/l

RT: 11.09 min Scan# 3031

Delta R.T. 0.00 min

Lab File: VU039695.D

Acq: 29 Jul 2020 10:40

Instrument :

MSVOA\_U

ClientSampleId :

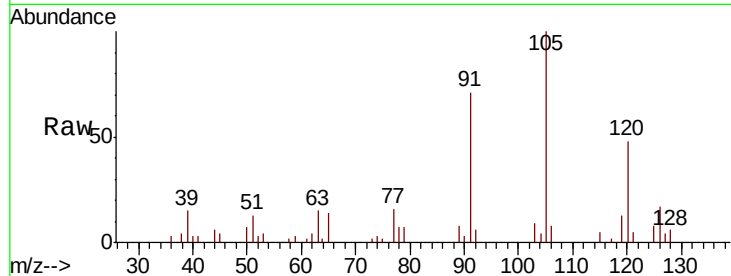
VSTDIC0.5

Tot Ion:105 Resp: 9446

Ion Ratio Lower Upper

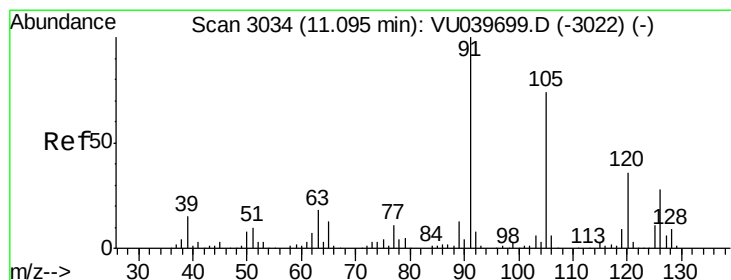
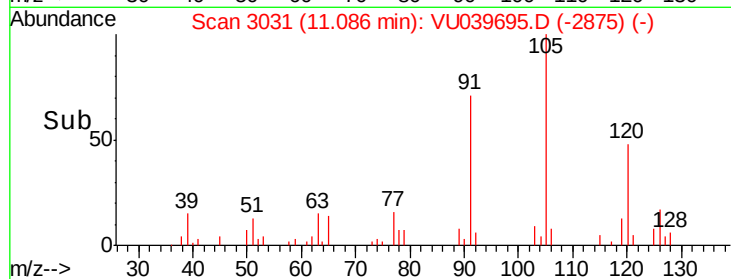
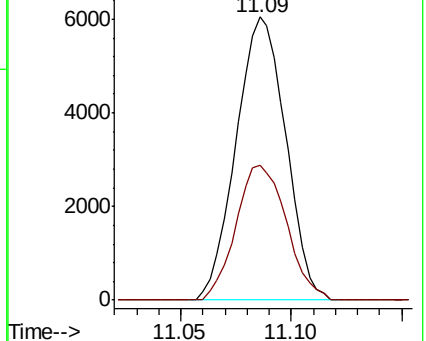
105 100

120 48.7 38.0 57.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#76

4-Chlorotoluene

Concen: 0.365 ug/l

RT: 11.10 min Scan# 3034

Delta R.T. 0.00 min

Lab File: VU039695.D

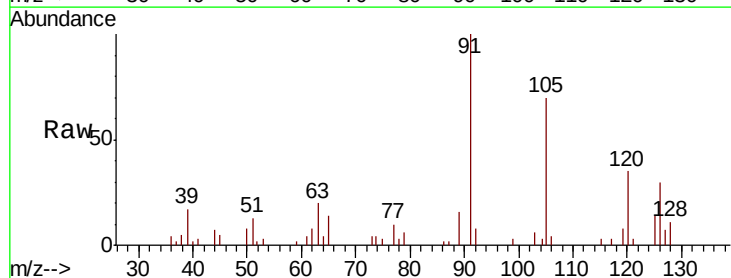
Acq: 29 Jul 2020 10:40

Tgt Ion:126 Resp: 2799

Ion Ratio Lower Upper

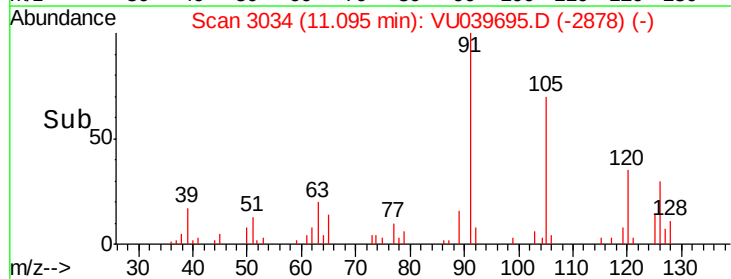
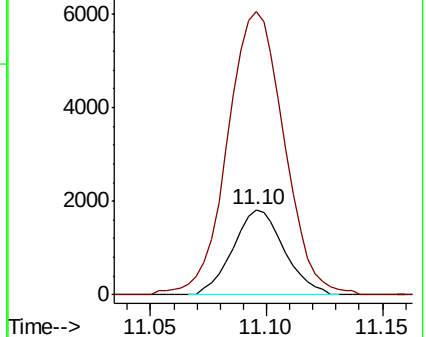
126 100

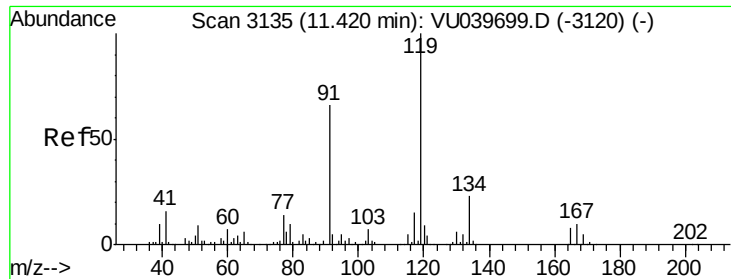
91 366.6 0.0 732.2



Abundance Ion 126.00 (125.70 to 126.70): V

Ion 91.00 (90.70 to 91.70): VU0

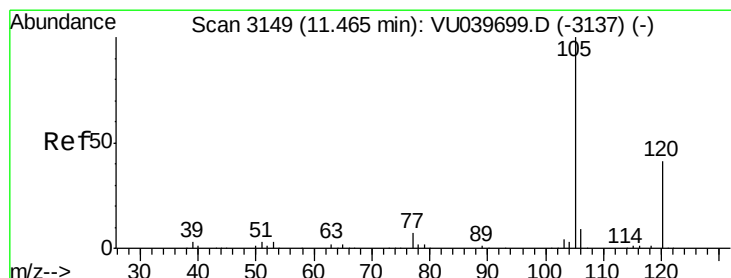
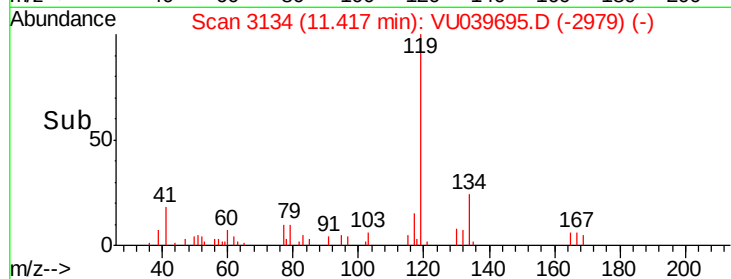
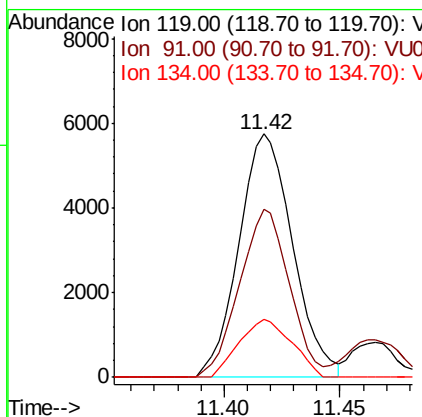
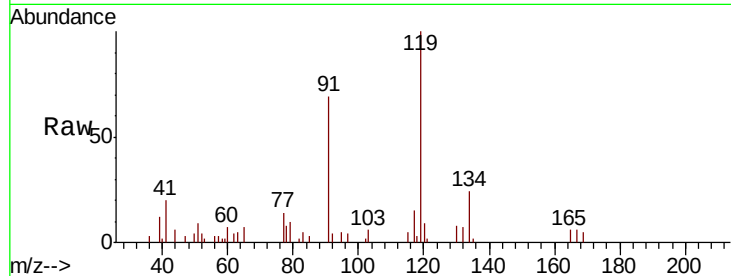




#77  
 tert-Butylbenzene  
 Concen: 0.365 ug/l  
 RT: 11.42 min Scan# 3134  
 Delta R.T. -0.00 min  
 Lab File: VU039695.D  
 Acq: 29 Jul 2020 10:40

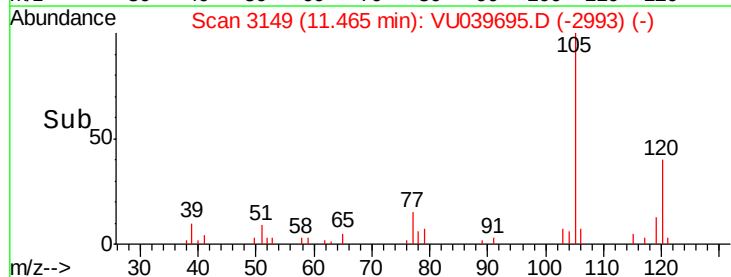
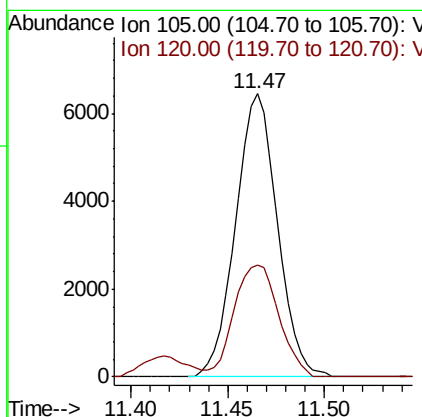
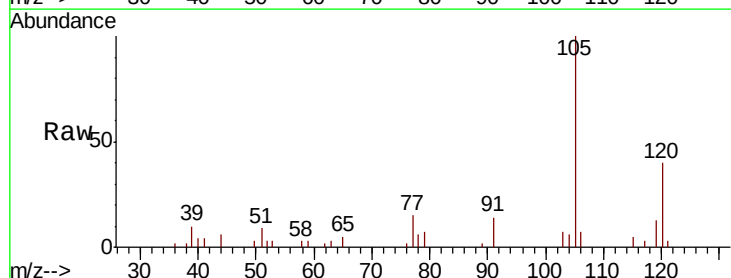
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC0.5

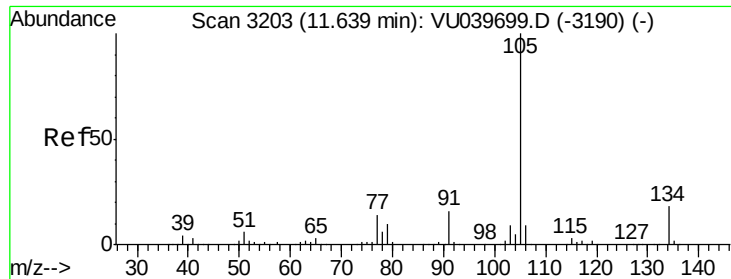
Tot Ion:119 Resp: 9264  
 Ion Ratio Lower Upper  
 119 100  
 91 63.9 31.9 95.5  
 134 23.3 18.2 27.4



#78  
 1,2,4-Trimethylbenzene  
 Concen: 0.352 ug/l  
 RT: 11.47 min Scan# 3149  
 Delta R.T. 0.00 min  
 Lab File: VU039695.D  
 Acq: 29 Jul 2020 10:40

Tgt Ion:105 Resp: 9690  
 Ion Ratio Lower Upper  
 105 100  
 120 42.1 22.7 68.0

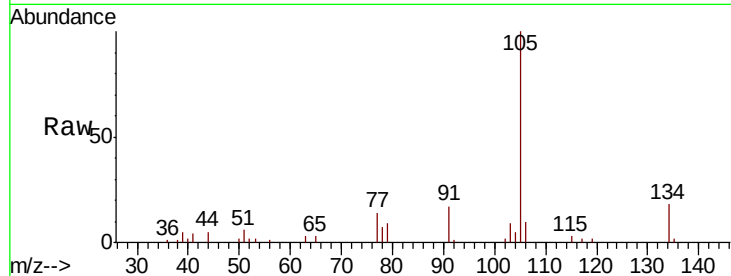




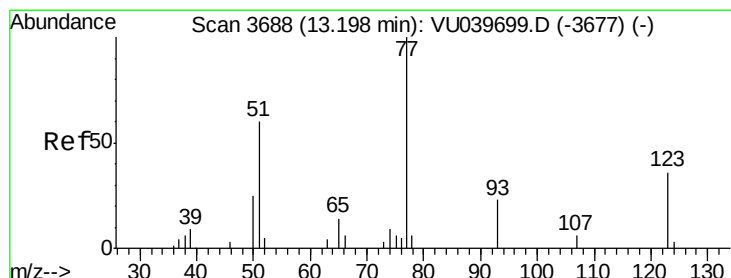
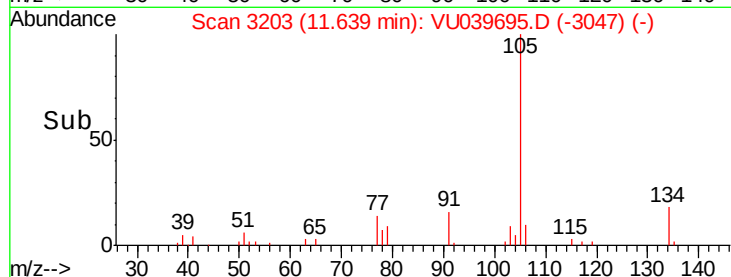
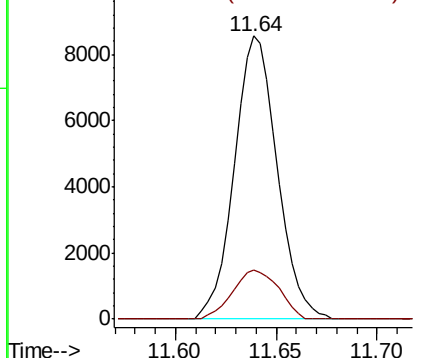
#79  
 sec-Butylbenzene  
 Concen: 0.351 ug/l  
 RT: 11.64 min Scan# 3203  
 Delta R.T. 0.00 min  
 Lab File: VU039695.D  
 Acq: 29 Jul 2020 10:40

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC0.5

Tot Ion: 105 Resp: 12742  
 Ion Ratio Lower Upper  
 105 100  
 134 18.8 14.8 22.2

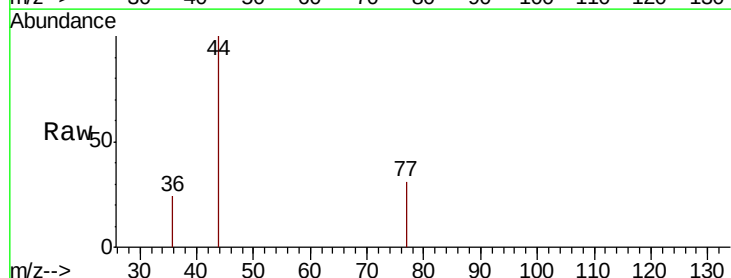


Abundance Ion 105.00 (104.70 to 105.70): V  
 Ion 134.00 (133.70 to 134.70): V

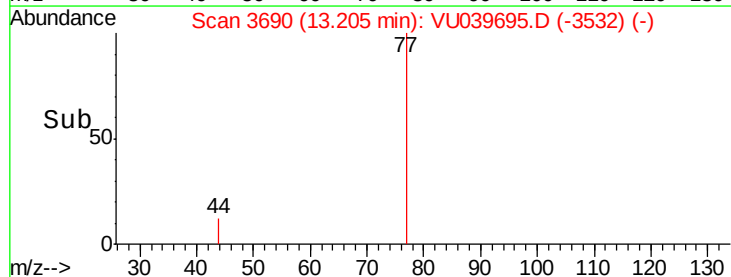
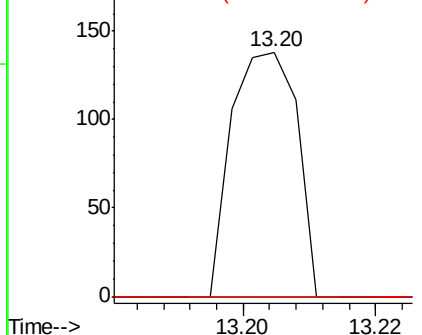


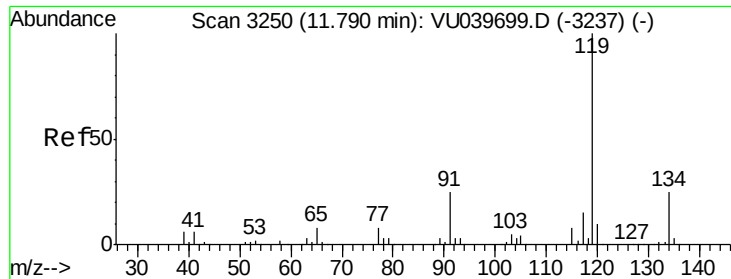
#80  
 Nitrobenzene  
 Concen: 0.540 ug/l  
 RT: 13.20 min Scan# 3690  
 Delta R.T. 0.01 min  
 Lab File: VU039695.D  
 Acq: 29 Jul 2020 10:40

Tgt Ion: 77 Resp: 95  
 Ion Ratio Lower Upper  
 77 100  
 123 0.0 16.9 59.9#  
 65 0.0 14.4 18.4#



Abundance Ion 77.00 (76.70 to 77.70): VU0  
 Ion 123.00 (122.70 to 123.70): V  
 Ion 65.00 (64.70 to 65.70): VU0

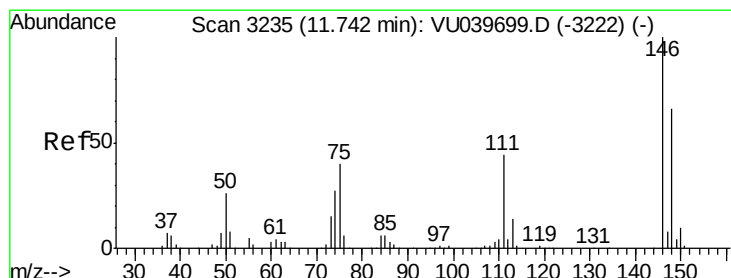
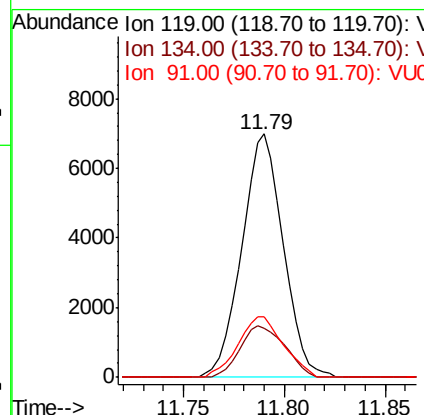
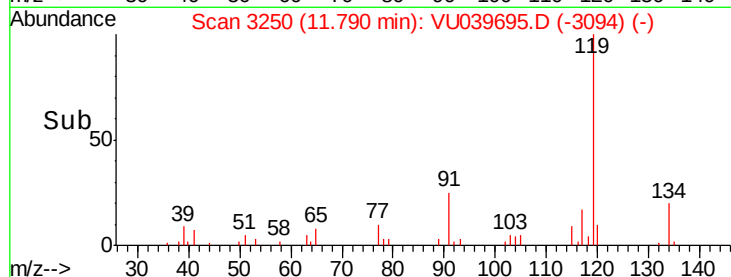
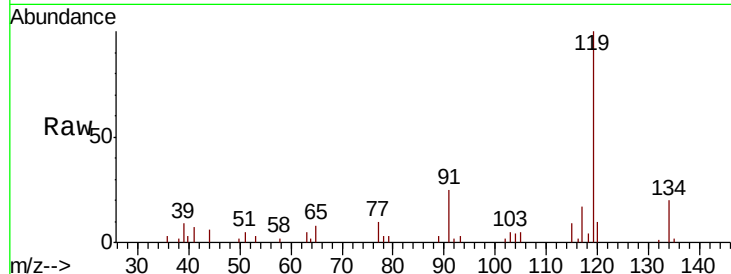




#81  
 p-Isopropyltoluene  
 Concen: 0.343 ug/l  
 RT: 11.79 min Scan# 3250  
 Delta R.T. 0.00 min  
 Lab File: VU039695.D  
 Acq: 29 Jul 2020 10:40

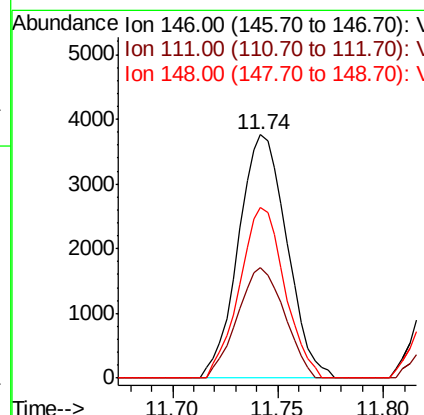
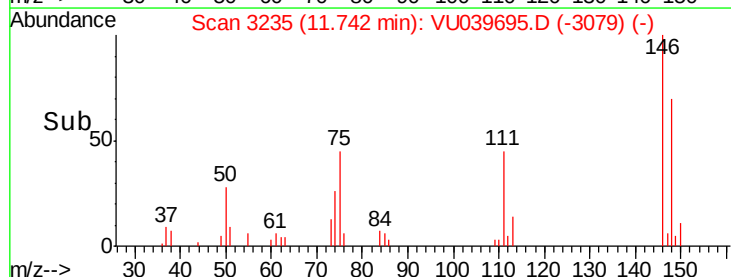
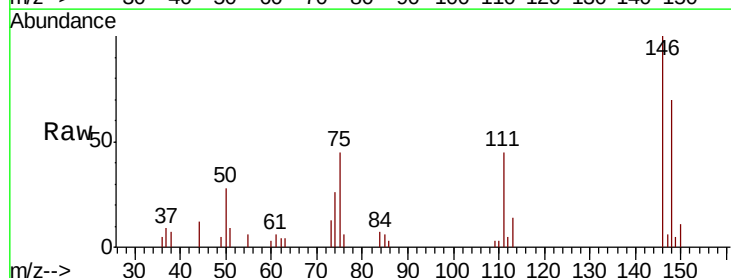
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC0.5

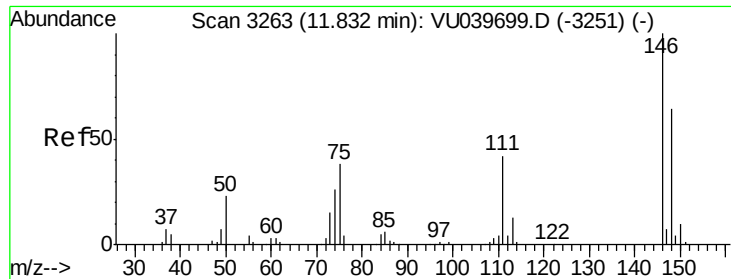
Tot Ion:119 Resp: 10043  
 Ion Ratio Lower Upper  
 119 100  
 134 22.8 20.2 30.4  
 91 27.0 20.7 31.1



#82  
 1,3-Dichlorobenzene  
 Concen: 0.406 ug/l  
 RT: 11.74 min Scan# 3235  
 Delta R.T. 0.00 min  
 Lab File: VU039695.D  
 Acq: 29 Jul 2020 10:40

Tgt Ion:146 Resp: 6005  
 Ion Ratio Lower Upper  
 146 100  
 111 43.9 34.5 51.7  
 148 65.2 51.4 77.0

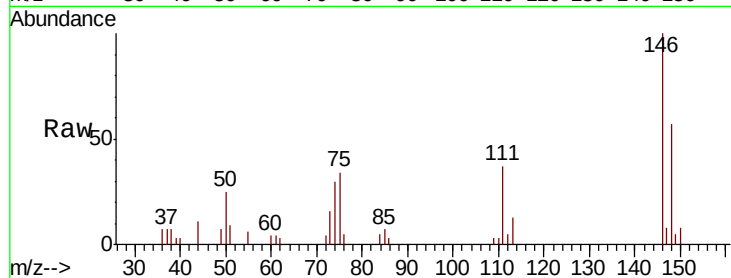




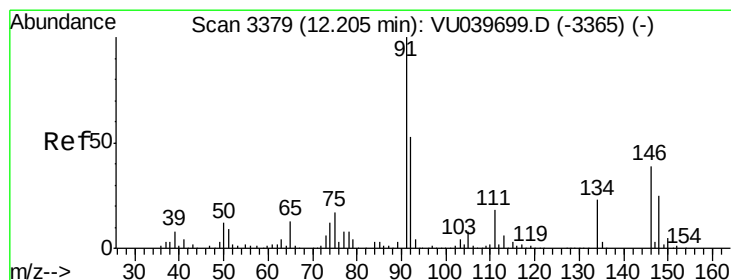
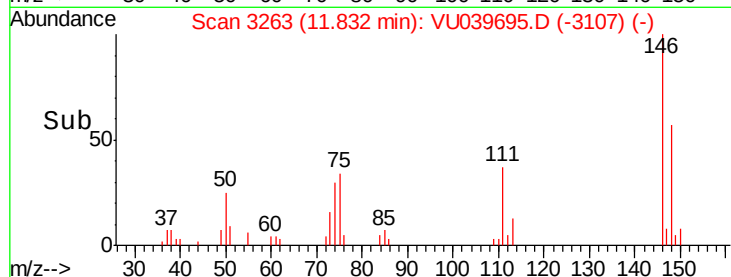
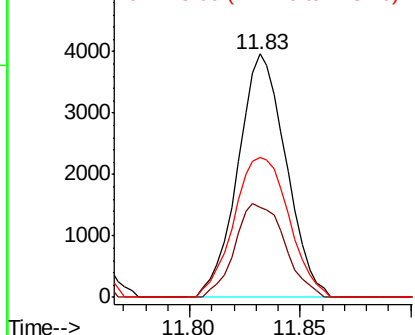
#83  
 1,4-Dichlorobenzene  
 Concen: 0.401 ug/l  
 RT: 11.83 min Scan# 3263  
 Delta R.T. 0.00 min  
 Lab File: VU039695.D  
 Acq: 29 Jul 2020 10:40

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC0.5

Tot Ion:146 Resp: 6004  
 Ion Ratio Lower Upper  
 146 100  
 111 39.9 33.8 50.6  
 148 65.6 51.1 76.7

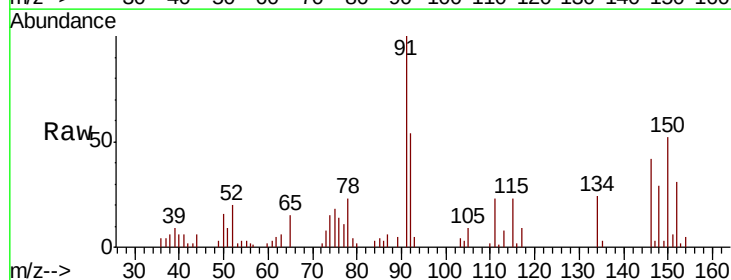


Abundance Ion 146.00 (145.70 to 146.70): V  
 Ion 111.00 (110.70 to 111.70): V  
 Ion 148.00 (147.70 to 148.70): V

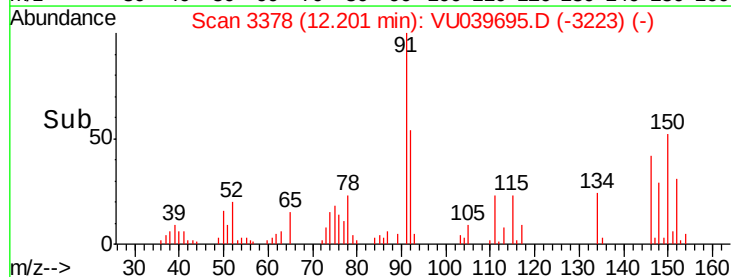
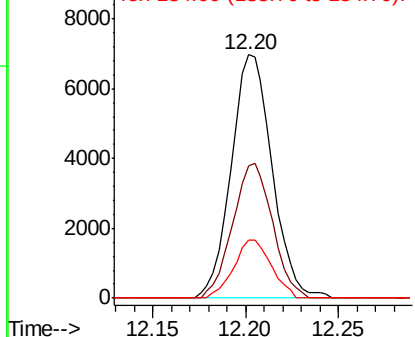


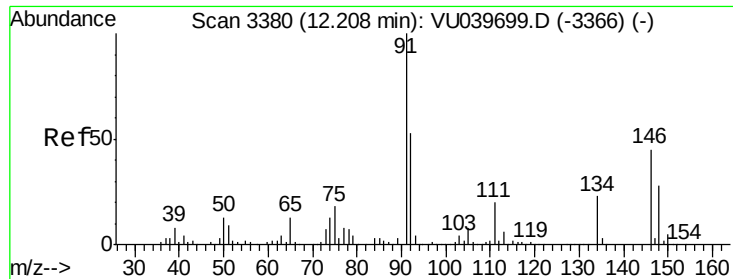
#84  
 n-Butylbenzene  
 Concen: 0.362 ug/l  
 RT: 12.20 min Scan# 3378  
 Delta R.T. -0.00 min  
 Lab File: VU039695.D  
 Acq: 29 Jul 2020 10:40

Tgt Ion: 91 Resp: 10666  
 Ion Ratio Lower Upper  
 91 100  
 92 53.7 42.6 64.0  
 134 21.7 18.2 27.4



Abundance Ion 91.00 (90.70 to 91.70): VU0  
 Ion 92.00 (91.70 to 92.70): VU0  
 Ion 134.00 (133.70 to 134.70): V

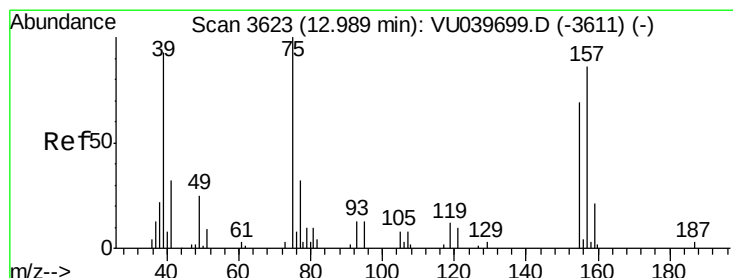
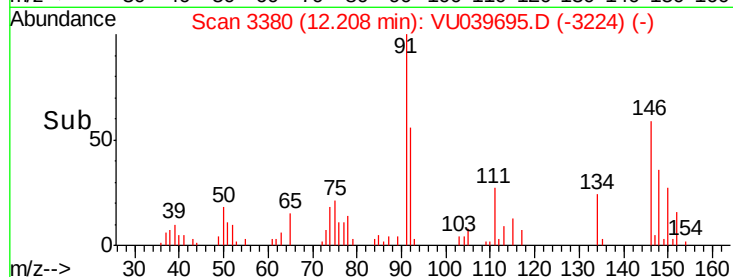
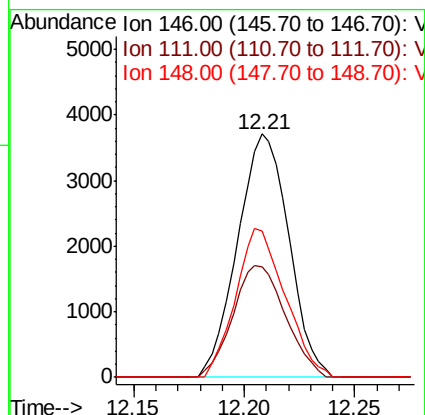
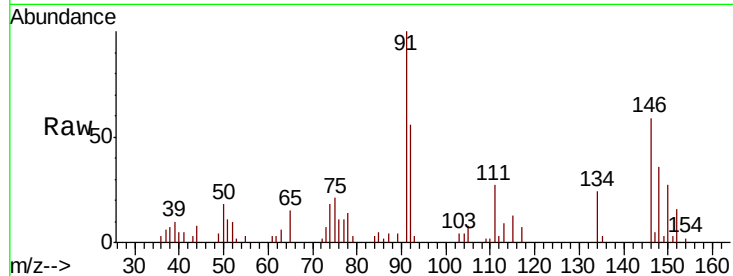




#85  
 1,2-Dichlorobenzene  
 Concen: 0.429 ug/l  
 RT: 12.21 min Scan# 3380  
 Delta R.T. 0.00 min  
 Lab File: VU039695.D  
 Acq: 29 Jul 2020 10:40

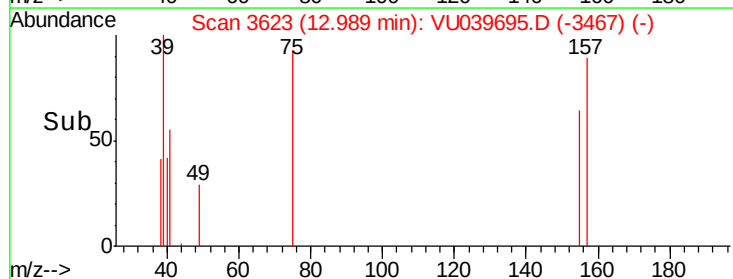
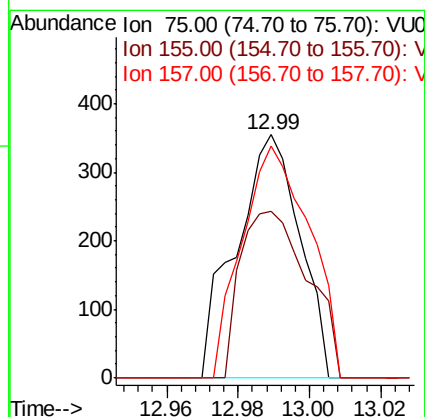
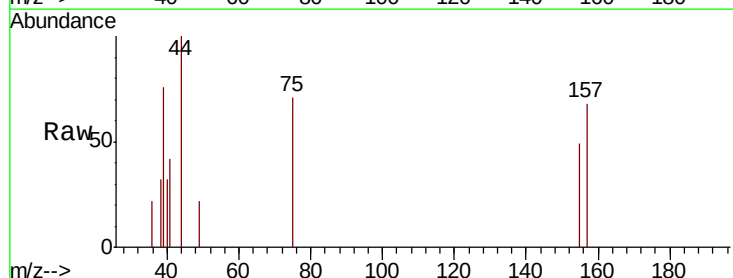
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC0.5

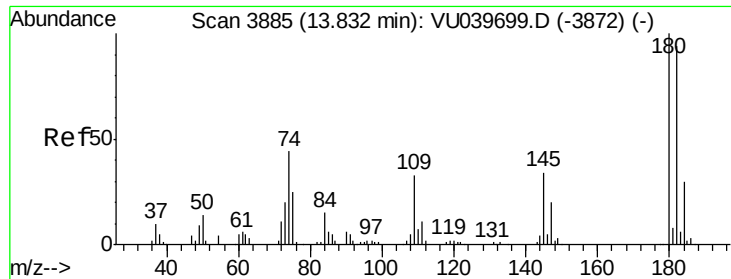
Tot Ion:146 Resp: 5961  
 Ion Ratio Lower Upper  
 146 100  
 111 47.3 22.8 68.3  
 148 59.2 31.7 95.1



#86  
 1,2-Dibromo-3-Chloropropane  
 Concen: 0.416 ug/l  
 RT: 12.99 min Scan# 3623  
 Delta R.T. 0.00 min  
 Lab File: VU039695.D  
 Acq: 29 Jul 2020 10:40

Tgt Ion: 75 Resp: 438  
 Ion Ratio Lower Upper  
 75 100  
 155 72.8 52.9 79.3  
 157 100.9 67.8 101.6

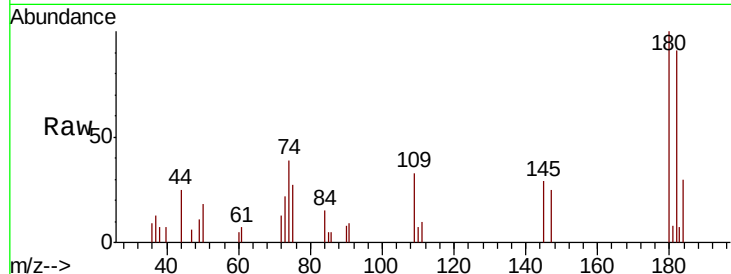




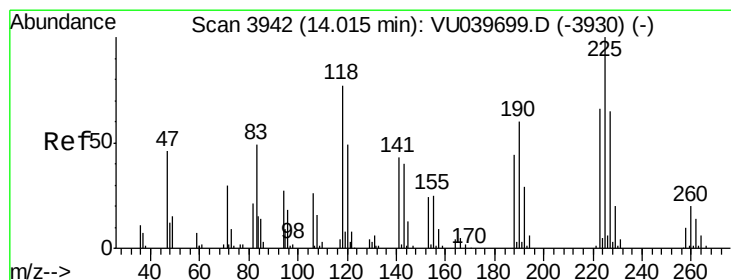
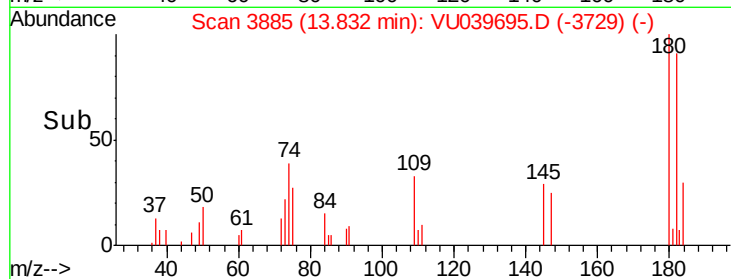
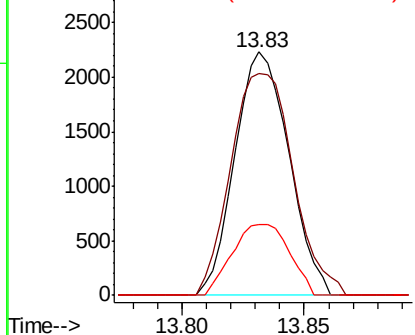
#87  
 1,2,4-Trichlorobenzene  
 Concen: 0.345 ug/l  
 RT: 13.83 min Scan# 3885  
 Delta R.T. 0.00 min  
 Lab File: VU039695.D  
 Acq: 29 Jul 2020 10:40

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC0.5

Tot Ion:180 Resp: 3434  
 Ion Ratio Lower Upper  
 180 100  
 182 105.2 76.2 114.4  
 145 30.8 26.8 40.2

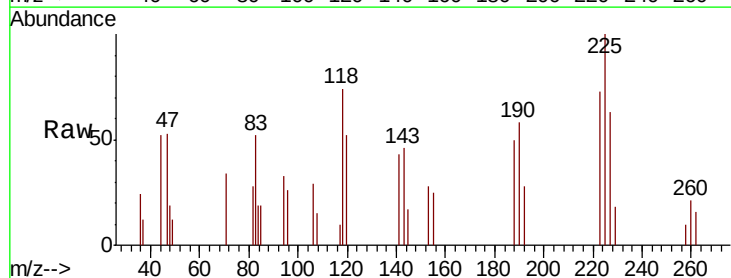


Abundance Ion 179.70 (179.40 to 180.40): V  
 Ion 181.80 (181.50 to 182.50): V  
 Ion 144.80 (144.50 to 145.50): V

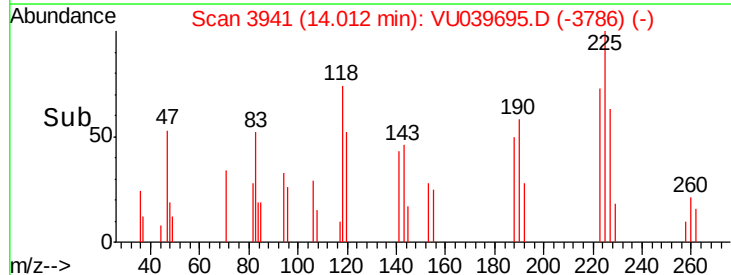
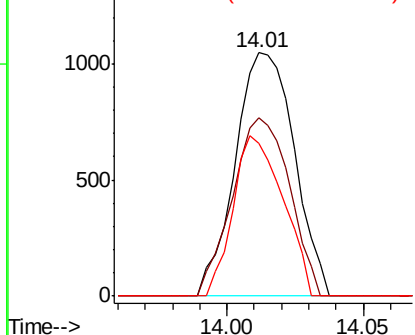


#88  
 Hexachlorobutadiene  
 Concen: 0.358 ug/l  
 RT: 14.01 min Scan# 3941  
 Delta R.T. -0.00 min  
 Lab File: VU039695.D  
 Acq: 29 Jul 2020 10:40

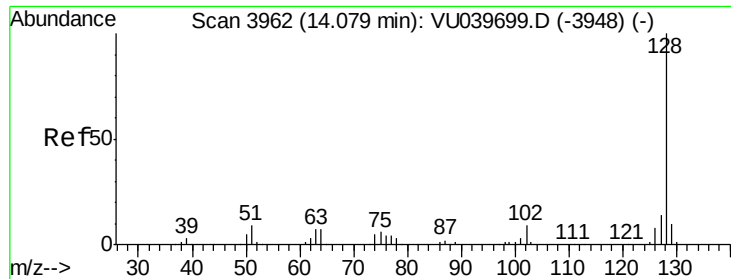
Tgt Ion:225 Resp: 1576  
 Ion Ratio Lower Upper  
 225 100  
 223 70.8 52.4 78.6  
 227 55.7 50.7 76.1



Abundance Ion 224.60 (224.30 to 225.30): V  
 Ion 222.60 (222.30 to 223.30): V  
 Ion 226.60 (226.30 to 227.30): V







#89

Naphthalene

Concen: 0.368 ug/l

RT: 14.08 min Scan# 3962

Delta R.T. 0.00 min

Lab File: VU039695.D

Acq: 29 Jul 2020 10:40

Instrument :

MSVOA\_U

ClientSampleId :

VSTDIC0.5

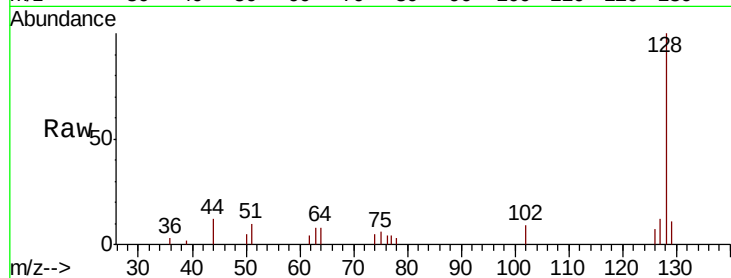
Tot Ion:128 Resp: 7199

Ion Ratio Lower Upper

128 100

127 11.9 11.0 16.4

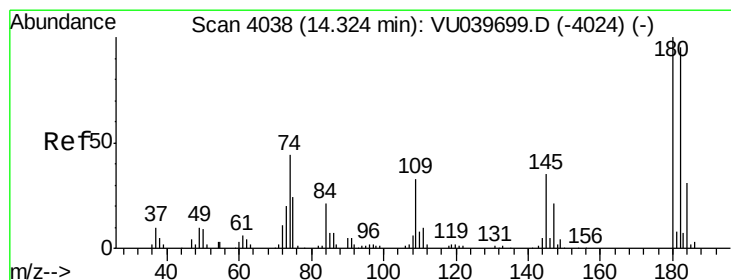
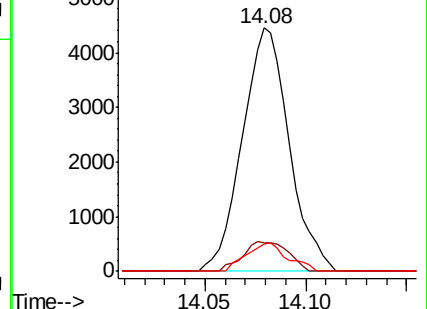
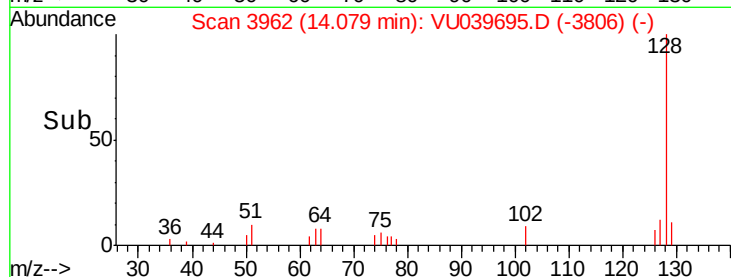
129 10.3 8.4 12.6



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#90

1,2,3-Trichlorobenzene

Concen: 0.388 ug/l

RT: 14.32 min Scan# 4037

Delta R.T. -0.00 min

Lab File: VU039695.D

Acq: 29 Jul 2020 10:40

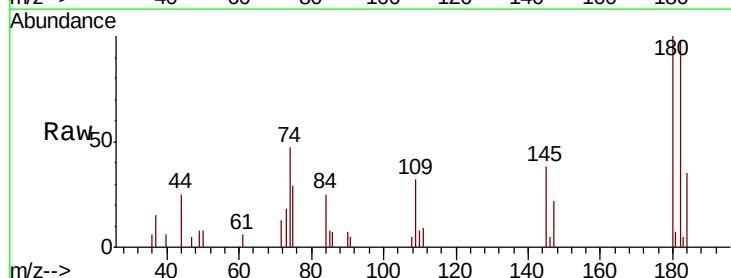
Tgt Ion:180 Resp: 3453

Ion Ratio Lower Upper

180 100

182 94.1 76.0 114.0

145 37.3 27.8 41.6



Abundance Ion 179.70 (179.40 to 180.40): V

Ion 181.70 (181.40 to 182.40): V

Ion 144.80 (144.50 to 145.50): V

