

Data Path : W:\HPCHEM1\MSVOA\_U\DATA\VU050718\  
 Data File : VU023724.D  
 Acq On : 07 May 2018 19:55  
 Operator : MD/SY  
 Sample : VSTDCCC050EC  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 08 04:51:17 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_U\METHOD\SOMULM050118WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue May 08 04:32:26 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 380747   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 364505   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 192711   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |          |
|--------------------------------|---------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 100605   | 37.28    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 74.56%   |
| 7) Chloroethane-d5             | 1.68    | 69    | 85195    | 41.42    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 82.84%   |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 222402   | 42.27    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 84.54%   |
| 21) 2-Butanone-d5              | 4.18    | 46    | 219279   | 117.61   | ug/L | 0.00     |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 117.61%  |
| 24) Chloroform-d               | 4.65    | 84    | 222838   | 49.93    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 99.86%   |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 140076   | 45.13    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 90.26%   |
| 32) Benzene-d6                 | 5.35    | 84    | 444715   | 45.47    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 90.94%   |
| 36) 1,2-Dichloropropane-d6     | 6.34    | 67    | 152469   | 46.54    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 93.08%   |
| 41) Toluene-d8                 | 7.57    | 98    | 415285   | 46.06    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 92.12%   |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 65683    | 46.58    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 93.16%   |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 163204   | 131.20   | ug/L | 0.00     |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 131.20%# |
| 57) 1,1,2,2-Tetrachloroethane- | 10.44   | 84    | 217459   | 51.32    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 102.64%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 176171   | 46.86    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 93.72%   |

## Target Compounds

|                                |      |     |        |       |      | Qvalue |
|--------------------------------|------|-----|--------|-------|------|--------|
| 2) Dichlorodifluoromethane     | 1.21 | 85  | 160057 | 38.93 | ug/L | 100    |
| 3) Chloromethane               | 1.33 | 50  | 141930 | 32.18 | ug/L | 99     |
| 5) Vinyl chloride              | 1.40 | 62  | 161945 | 38.78 | ug/L | # 70   |
| 6) Bromomethane                | 1.62 | 94  | 32363  | 14.46 | ug/L | 99     |
| 8) Chloroethane                | 1.70 | 64  | 104023 | 41.21 | ug/L | 97     |
| 9) Trichlorofluoromethane      | 1.89 | 101 | 194250 | 41.33 | ug/L | 98     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.29 | 101 | 127238 | 42.93 | ug/L | 98     |
| 12) 1,1-Dichloroethene         | 2.28 | 96  | 121232 | 43.63 | ug/L | 94     |
| 13) Acetone                    | 2.32 | 43  | 177360 | 64.03 | ug/L | 99     |
| 14) Carbon disulfide           | 2.48 | 76  | 387012 | 40.40 | ug/L | 100    |
| 15) Methyl Acetate             | 2.62 | 43  | 182844 | 49.83 | ug/L | 100    |
| 16) Methylene chloride         | 2.70 | 84  | 147628 | 42.56 | ug/L | 97     |
| 17) trans-1,2-Dichloroethene   | 2.99 | 96  | 132675 | 43.64 | ug/L | 97     |
| 18) Methyl tert-butyl Ether    | 3.00 | 73  | 435215 | 48.42 | ug/L | 99     |
| 19) 1,1-Dichloroethane         | 3.45 | 63  | 264103 | 43.77 | ug/L | 99     |
| 20) cis-1,2-Dichloroethene     | 4.23 | 96  | 153523 | 45.49 | ug/L | 99     |
| 22) 2-Butanone                 | 4.27 | 43  | 265601 | 86.22 | ug/L | 97     |

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 ALS Vial : 22 Sample Multiplier: 1

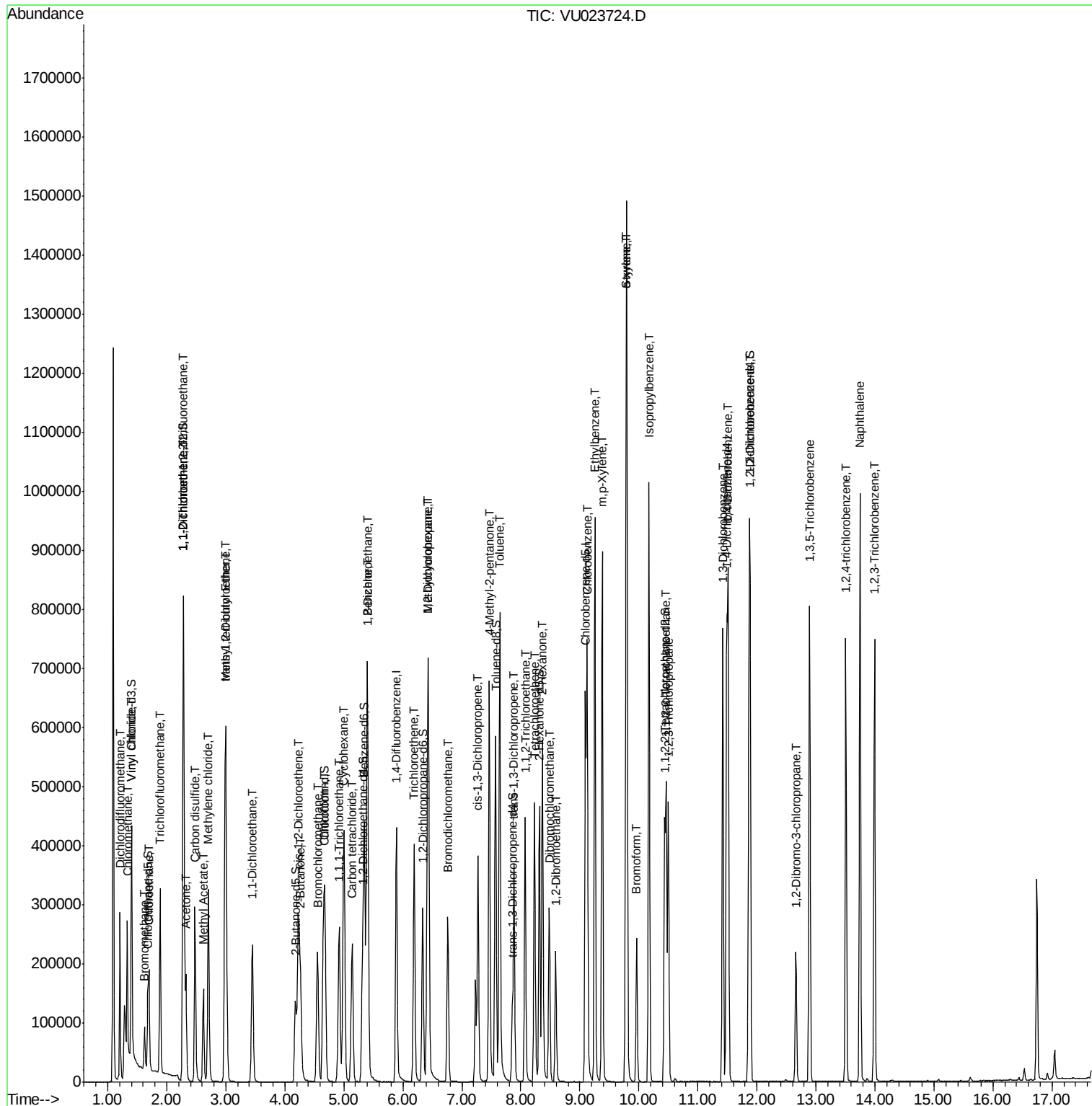
Quant Time: May 08 04:51:17 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_U\METHOD\SOMULM050118WMA.M  
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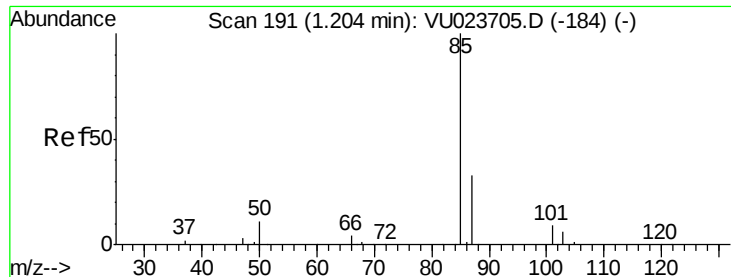
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane         | 4.55  | 128  | 75802    | 44.75  | ug/L  | 97       |
| 25) Chloroform                 | 4.68  | 83   | 251832   | 40.70  | ug/L  | 99       |
| 27) 1,2-Dichloroethane         | 5.41  | 62   | 197805   | 43.11  | ug/L  | 99       |
| 29) Cyclohexane                | 5.00  | 56   | 242229   | 44.96  | ug/L  | 98       |
| 30) 1,1,1-Trichloroethane      | 4.92  | 97   | 203817   | 44.15  | ug/L  | 99       |
| 31) Carbon tetrachloride       | 5.14  | 117  | 173945   | 43.36  | ug/L  | 100      |
| 33) Benzene                    | 5.39  | 78   | 576079   | 44.85  | ug/L  | 100      |
| 34) Trichloroethene            | 6.19  | 95   | 145539   | 44.22  | ug/L  | 99       |
| 35) Methylcyclohexane          | 6.42  | 83   | 222002   | 43.13  | ug/L  | 98       |
| 37) 1,2-Dichloropropane        | 6.44  | 63   | 162503   | 44.14  | ug/L  | 99       |
| 38) Bromodichloromethane       | 6.76  | 83   | 186445   | 44.89  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene    | 7.27  | 75   | 232786   | 45.89  | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone       | 7.46  | 43   | 481642   | 107.16 | ug/L  | 99       |
| 42) Toluene                    | 7.64  | 91   | 607810   | 45.65  | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene  | 7.88  | 75   | 206960   | 45.72  | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane      | 8.07  | 97   | 143784   | 45.97  | ug/L  | 100      |
| 46) Tetrachloroethene          | 8.23  | 164  | 117719   | 43.89  | ug/L  | 98       |
| 48) 2-Hexanone                 | 8.36  | 43   | 381266   | 97.39  | ug/L  | 99       |
| 49) Dibromochloromethane       | 8.48  | 129  | 151327   | 45.93  | ug/L  | 97       |
| 50) 1,2-Dibromoethane          | 8.59  | 107  | 152554   | 48.29  | ug/L  | 100      |
| 51) Chlorobenzene              | 9.12  | 112  | 395590   | 44.59  | ug/L  | 99       |
| 52) Ethylbenzene               | 9.25  | 91   | 679578   | 47.09  | ug/L  | 99       |
| 53) m,p-Xylene                 | 9.38  | 106  | 259004   | 47.05  | ug/L  | 96       |
| 54) o-xylene                   | 9.78  | 106  | 253763   | 48.66  | ug/L  | 99       |
| 55) Styrene                    | 9.80  | 104  | 437455   | 47.95  | ug/L  | 98       |
| 56) Isopropylbenzene           | 10.17 | 105  | 664535   | 48.55  | ug/L  | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.46 | 83   | 250314   | 48.74  | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane     | 10.50 | 75   | 200499   | 49.33  | ug/L  | 100      |
| 61) Bromoform                  | 9.96  | 173  | 111248   | 45.92  | ug/L  | 100      |
| 62) 1,3-Dichlorobenzene        | 11.42 | 146  | 320485   | 46.12  | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene        | 11.51 | 146  | 326067   | 44.94  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene        | 11.88 | 146  | 326684   | 45.95  | ug/L  | 100      |
| 66) 1,2-Dibromo-3-chloropropan | 12.66 | 75   | 53293    | 51.63  | ug/L  | 97       |
| 67) 1,3,5-Trichlorobenzene     | 12.89 | 180  | 261821   | 44.98  | ug/L  | 100      |
| 68) 1,2,4-trichlorobenzene     | 13.51 | 180  | 238804   | 48.30  | ug/L  | 99       |
| 69) Naphthalene                | 13.75 | 128  | 779247   | 60.07  | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 13.99 | 180  | 246560   | 48.95  | ug/L  | 100      |

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

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#2

Dichlorodifluoromethane

Concen: 38.93 ug/L

RT: 1.21 min Scan# 192

Delta R.T. 0.00 min

Lab File: VU023724.D

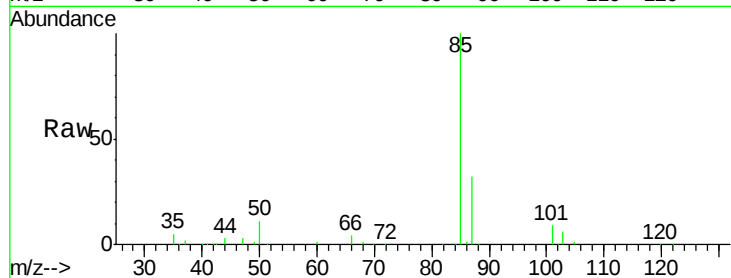
Acq: 07 May 2018 19:55

Tgt Ion: 85 Resp: 160057

Ion Ratio Lower Upper

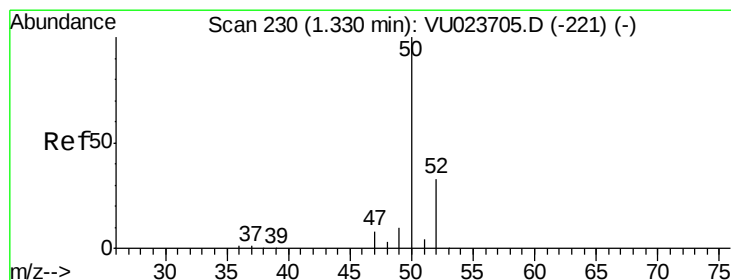
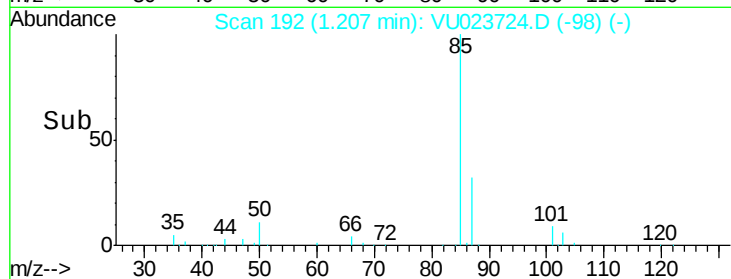
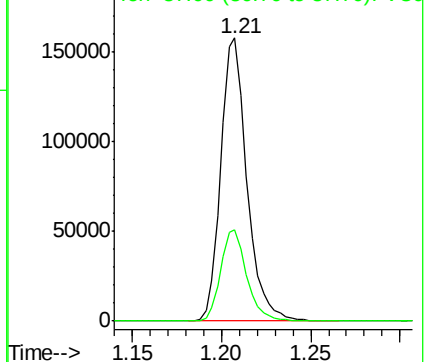
85 100

87 32.2 25.6 38.4



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 32.18 ug/L

RT: 1.33 min Scan# 230

Delta R.T. -0.00 min

Lab File: VU023724.D

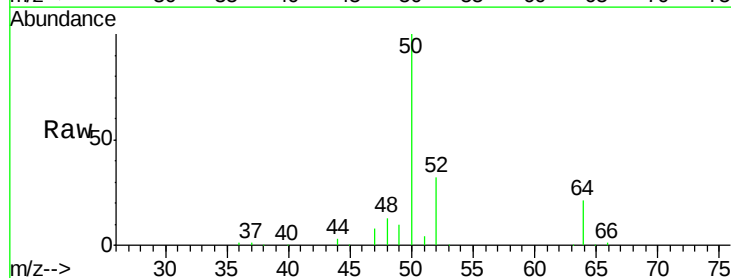
Acq: 07 May 2018 19:55

Tgt Ion: 50 Resp: 141930

Ion Ratio Lower Upper

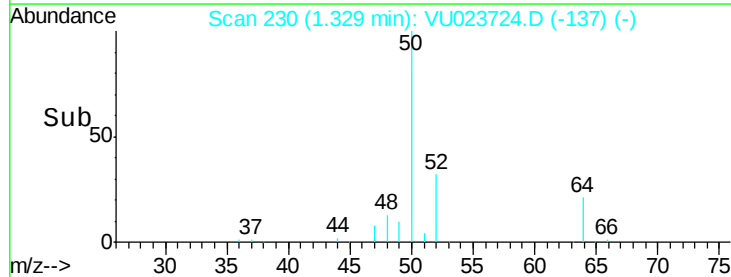
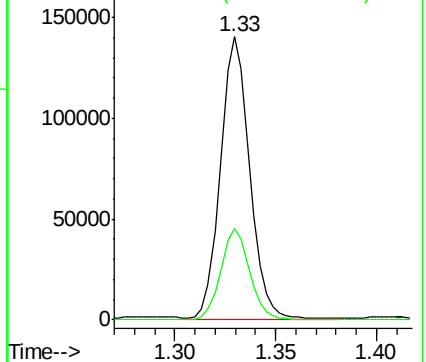
50 100

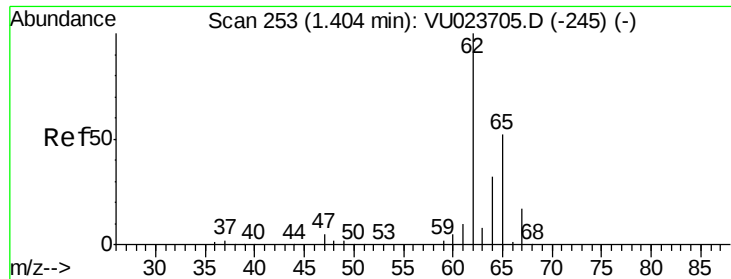
52 32.1 22.7 42.1



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0





#5

Vinyl chloride

Concen: 38.78 ug/L

RT: 1.40 min Scan# 253

Delta R.T. -0.00 min

Lab File: VU023724.D

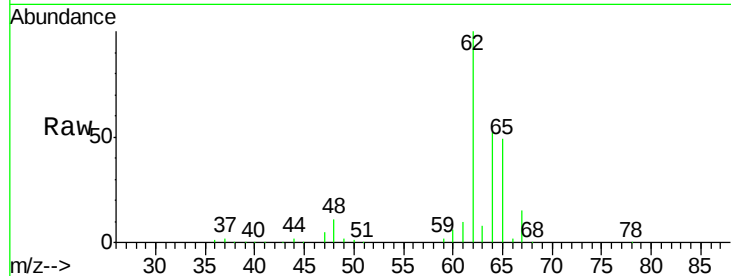
Acq: 07 May 2018 19:55

Tgt Ion: 62 Resp: 161945

Ion Ratio Lower Upper

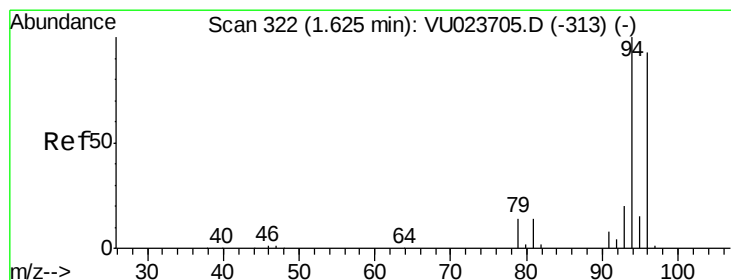
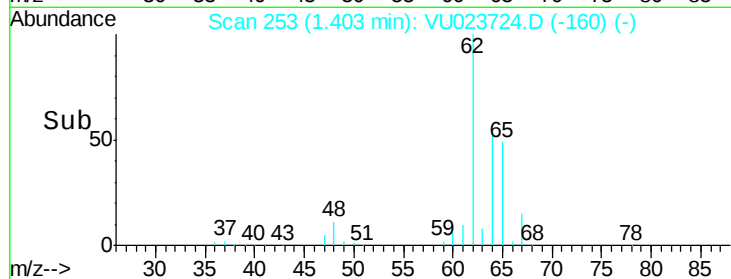
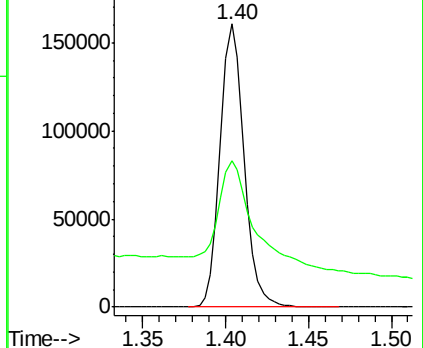
62 100

64 51.9 24.1 44.7#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 14.46 ug/L

RT: 1.62 min Scan# 321

Delta R.T. -0.00 min

Lab File: VU023724.D

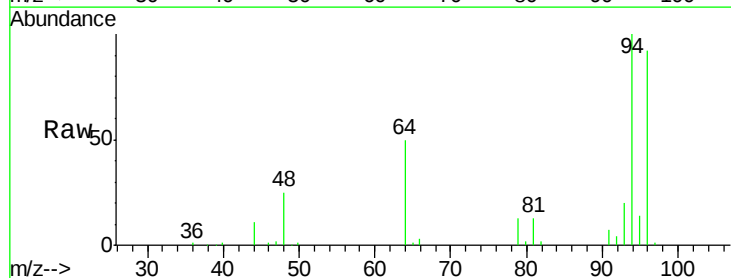
Acq: 07 May 2018 19:55

Tgt Ion: 94 Resp: 32363

Ion Ratio Lower Upper

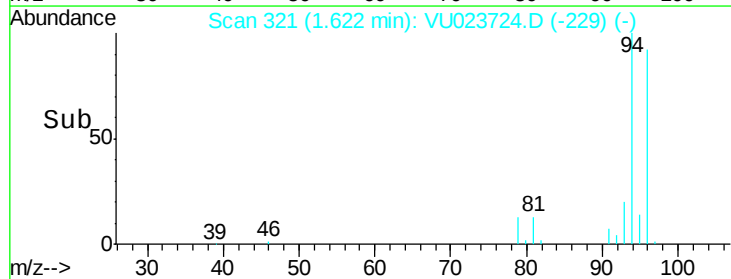
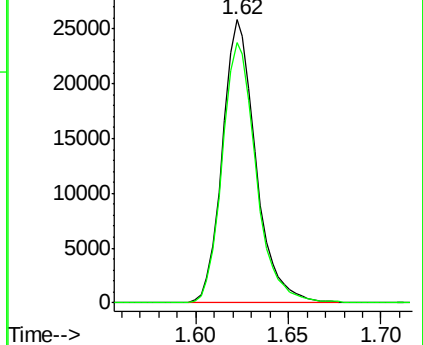
94 100

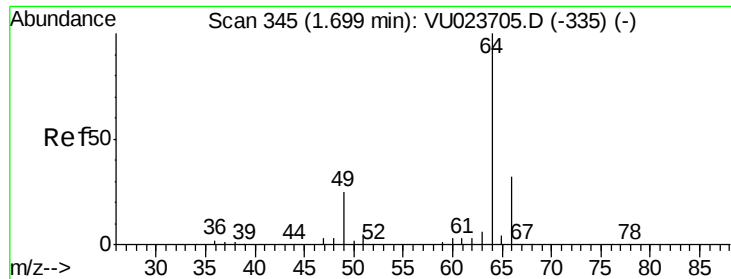
96 92.2 65.3 121.3



Abundance Ion 94.00 (93.70 to 94.70): VU0

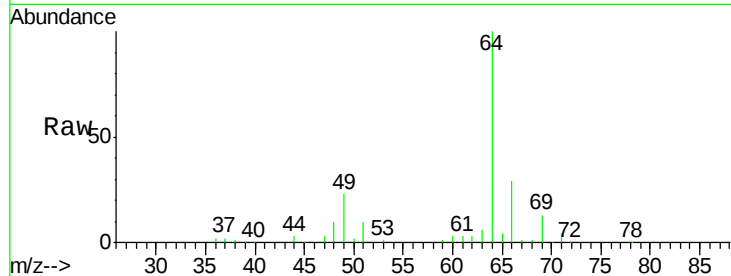
Ion 96.00 (95.70 to 96.70): VU0



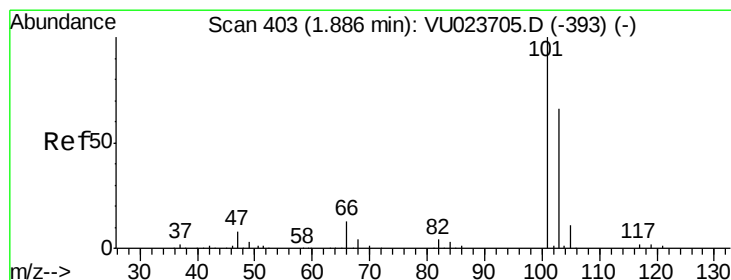
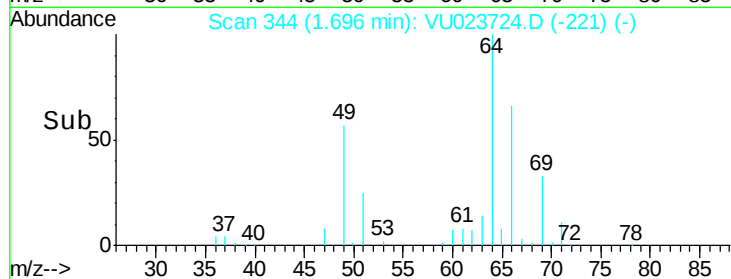
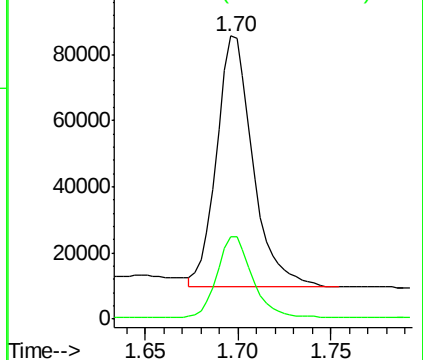


#8  
Chloroethane  
Concen: 41.21 ug/L  
RT: 1.70 min Scan# 344  
Delta R.T. -0.00 min  
Lab File: VU023724.D  
Acq: 07 May 2018 19:55

Tgt Ion: 64 Resp: 104023  
Ion Ratio Lower Upper  
64 100  
66 29.2 21.7 40.3

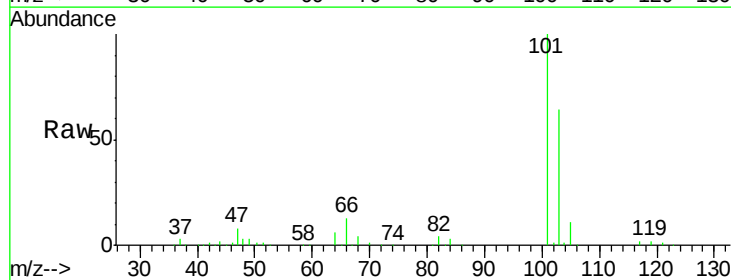


Abundance Ion 64.00 (63.70 to 64.70): VU0  
Ion 66.00 (65.70 to 66.70): VU0

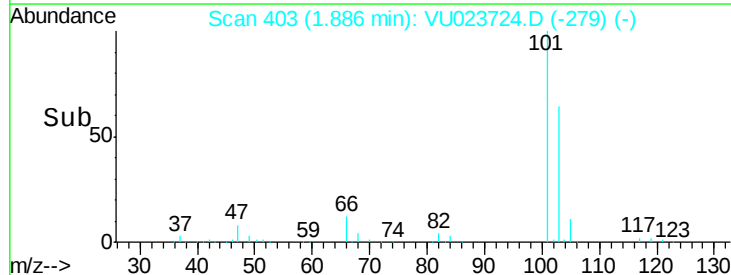
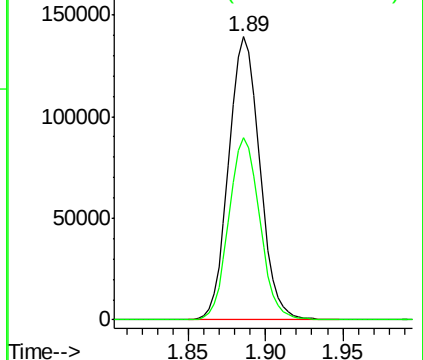


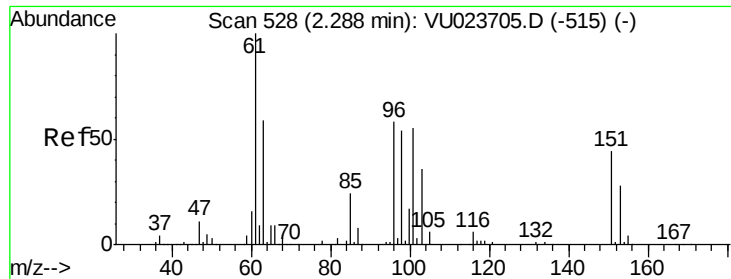
#9  
Trichlorofluoromethane  
Concen: 41.33 ug/L  
RT: 1.89 min Scan# 403  
Delta R.T. -0.00 min  
Lab File: VU023724.D  
Acq: 07 May 2018 19:55

Tgt Ion: 101 Resp: 194250  
Ion Ratio Lower Upper  
101 100  
103 64.1 52.2 78.4



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





#10

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

Concen: 42.93 ug/L

RT: 2.29 min Scan# 528

Delta R.T. -0.00 min

Lab File: VU023724.D

Acq: 07 May 2018 19:55

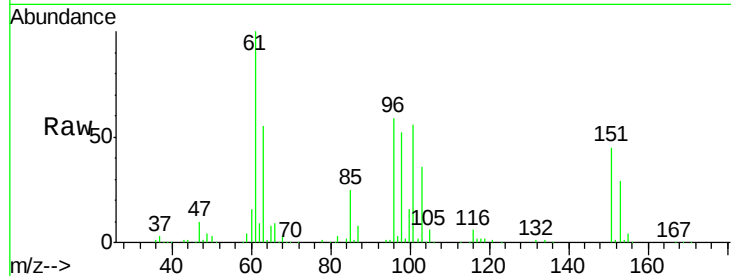
Tgt Ion: 101 Resp: 127238

Ion Ratio Lower Upper

101 100

85 42.7 34.9 52.3

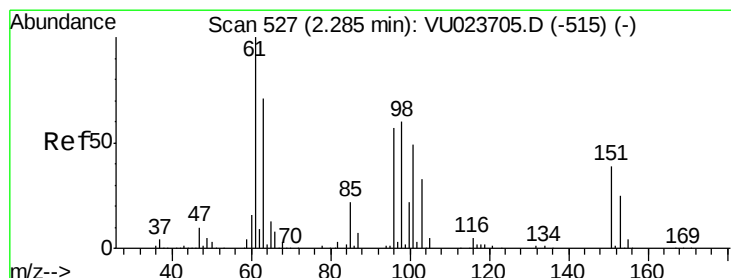
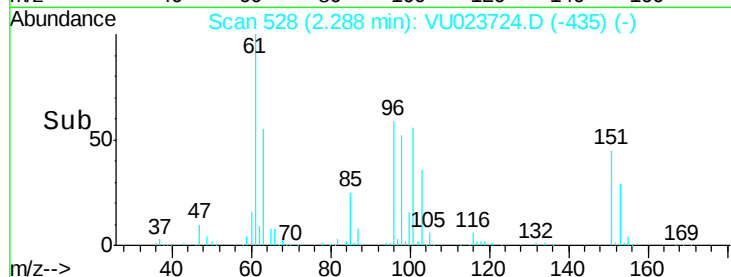
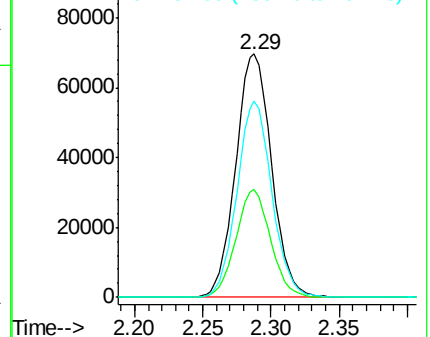
151 78.3 61.0 91.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 43.63 ug/L

RT: 2.28 min Scan# 527

Delta R.T. -0.00 min

Lab File: VU023724.D

Acq: 07 May 2018 19:55

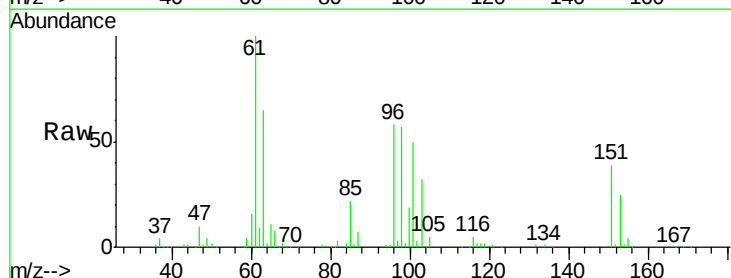
Tgt Ion: 96 Resp: 121232

Ion Ratio Lower Upper

96 100

61 173.0 125.9 233.7

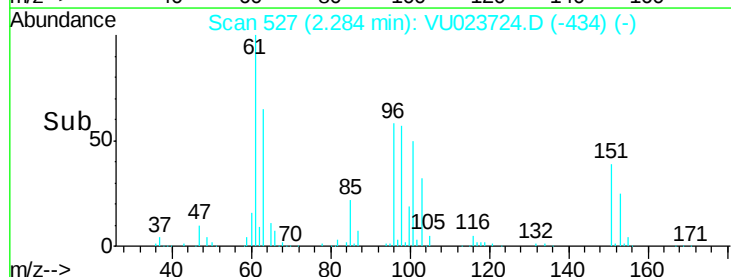
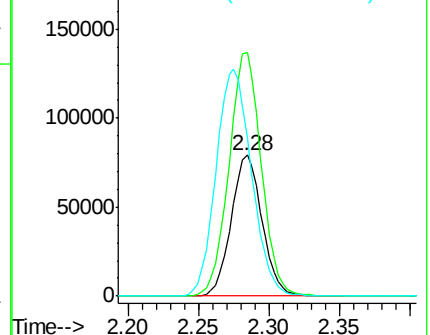
63 112.3 84.8 157.6

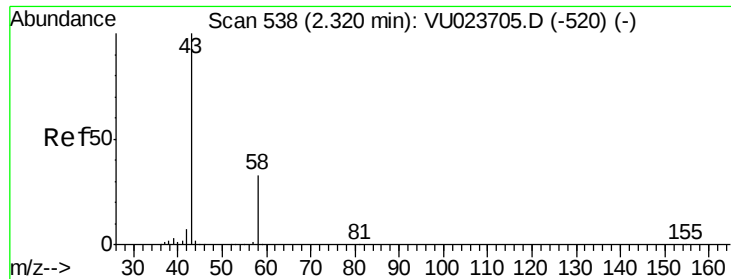


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 64.03 ug/L

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU023724.D

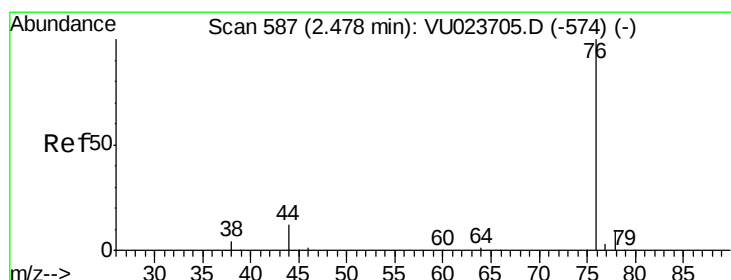
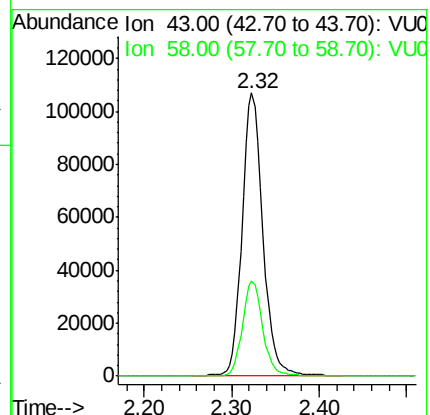
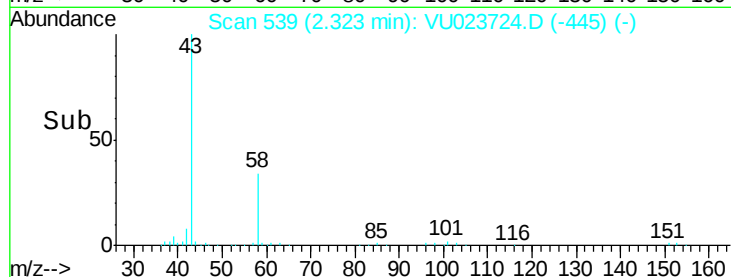
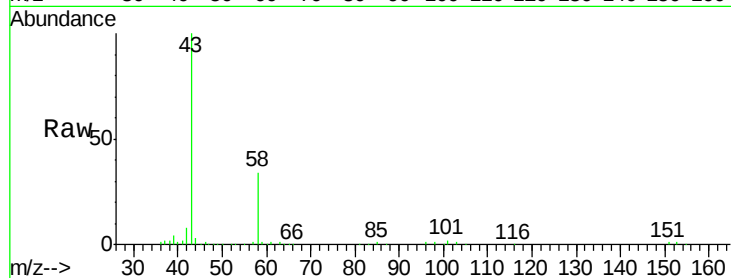
Acq: 07 May 2018 19:55

Tgt Ion: 43 Resp: 177360

Ion Ratio Lower Upper

43 100

58 32.8 0.0 64.8



#14

Carbon disulfide

Concen: 40.40 ug/L

RT: 2.48 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU023724.D

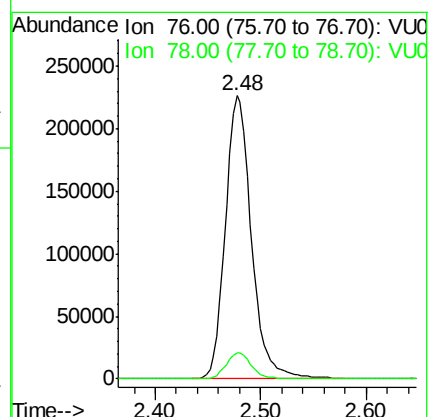
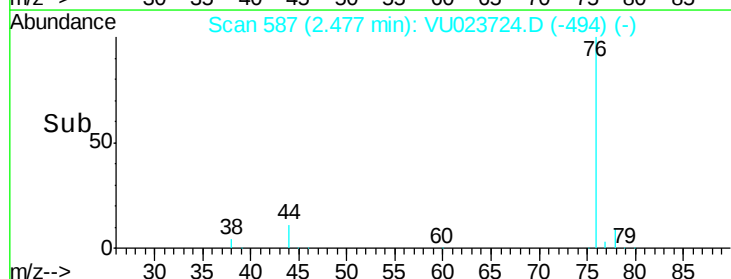
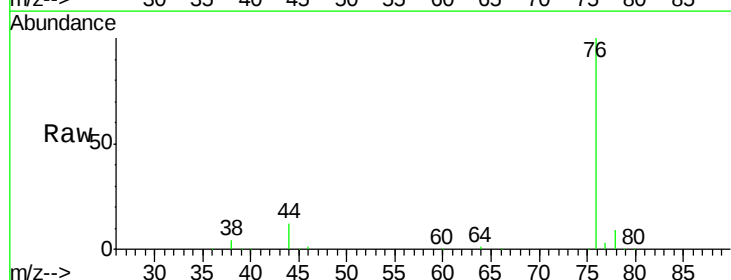
Acq: 07 May 2018 19:55

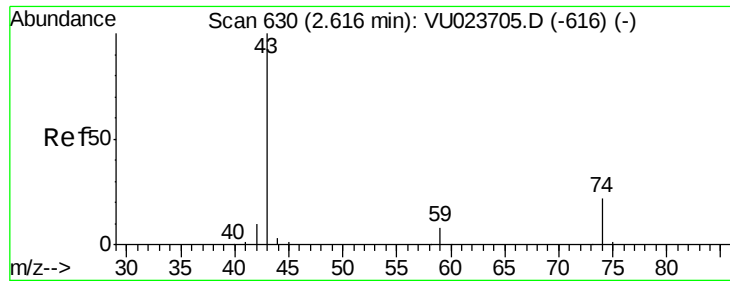
Tgt Ion: 76 Resp: 387012

Ion Ratio Lower Upper

76 100

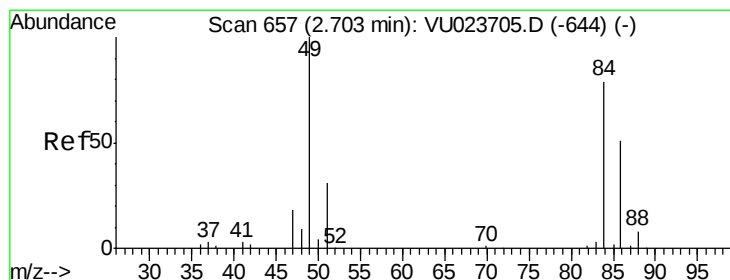
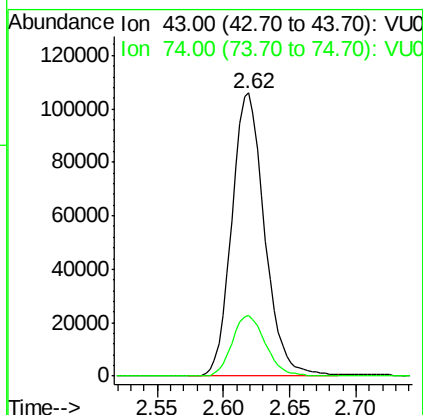
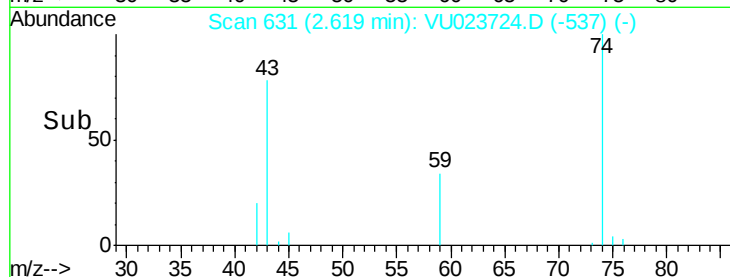
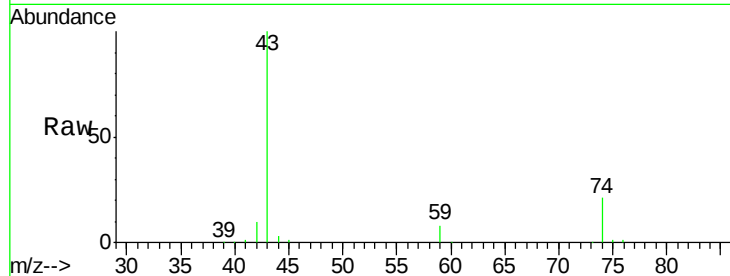
78 9.4 7.4 11.2





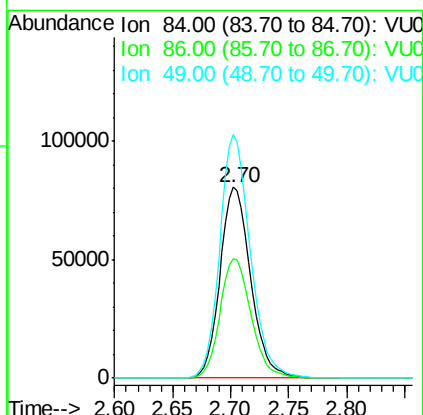
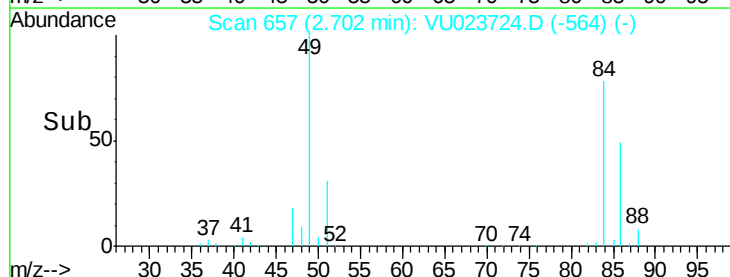
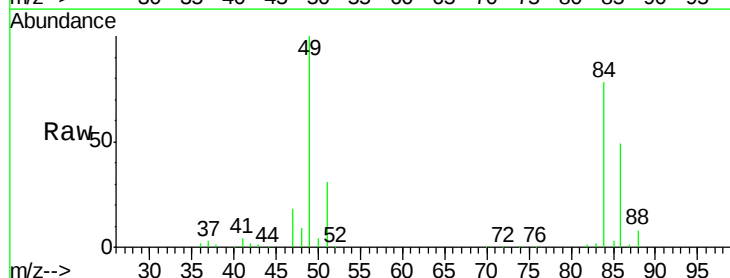
#15  
Methyl Acetate  
Concen: 49.83 ug/L  
RT: 2.62 min Scan# 631  
Delta R.T. 0.00 min  
Lab File: VU023724.D  
Acq: 07 May 2018 19:55

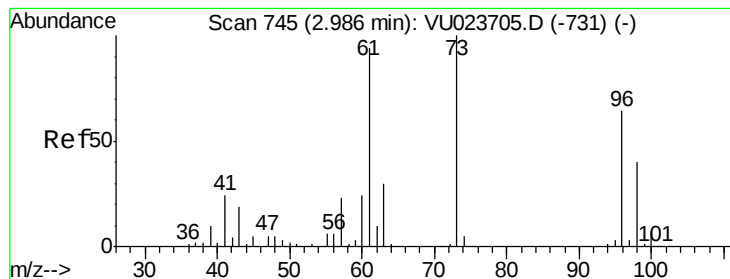
Tgt Ion: 43 Resp: 182844  
Ion Ratio Lower Upper  
43 100  
74 21.8 17.5 26.3



#16  
Methylene chloride  
Concen: 42.56 ug/L  
RT: 2.70 min Scan# 657  
Delta R.T. -0.00 min  
Lab File: VU023724.D  
Acq: 07 May 2018 19:55

Tgt Ion: 84 Resp: 147628  
Ion Ratio Lower Upper  
84 100  
86 63.0 45.6 84.8  
49 127.7 91.9 170.7





#17

trans-1,2-Dichloroethene

Concen: 43.64 ug/L

RT: 2.99 min Scan# 745

Delta R.T. -0.00 min

Lab File: VU023724.D

Acq: 07 May 2018 19:55

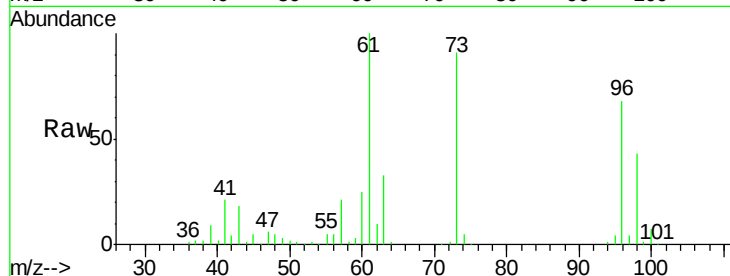
Tgt Ion: 96 Resp: 132675

Ion Ratio Lower Upper

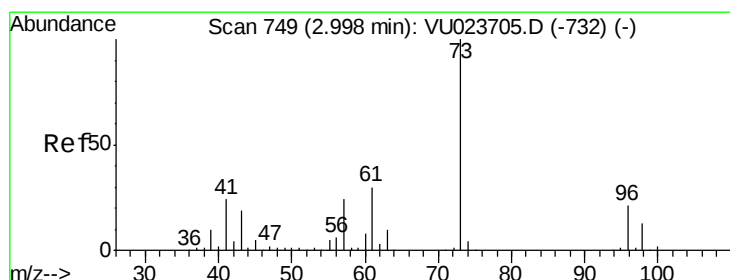
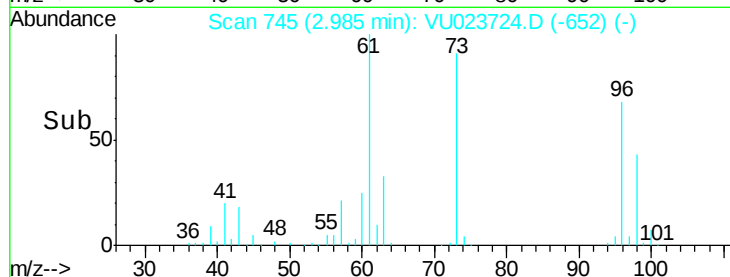
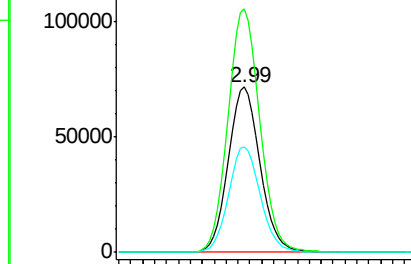
96 100

61 147.2 106.9 198.5

98 63.9 44.2 82.2



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



#18

Methyl tert-butyl Ether

Concen: 48.42 ug/L

RT: 3.00 min Scan# 750

Delta R.T. 0.00 min

Lab File: VU023724.D

Acq: 07 May 2018 19:55

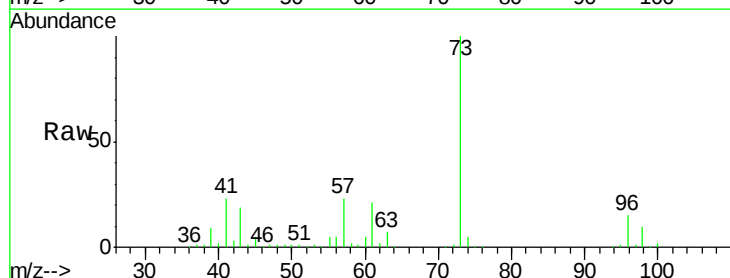
Tgt Ion: 73 Resp: 435215

Ion Ratio Lower Upper

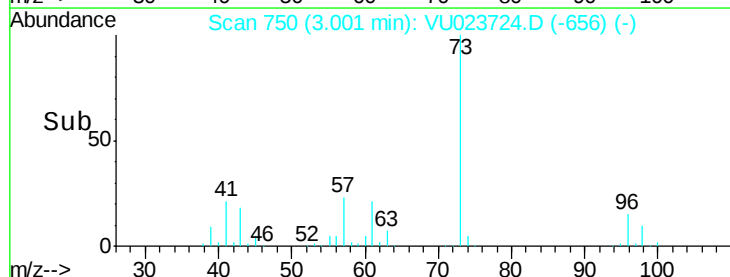
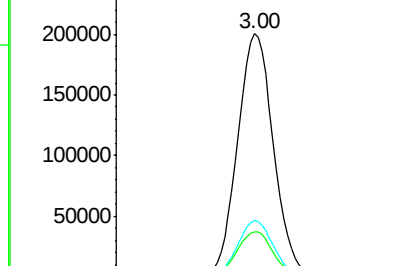
73 100

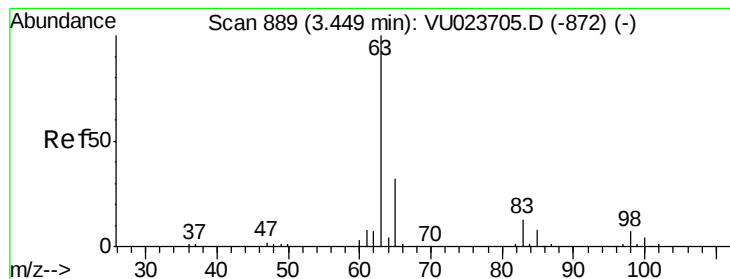
43 19.1 15.5 23.3

57 23.4 18.5 27.7



Abundance Ion 73.00 (72.70 to 73.70): VU0  
Ion 43.00 (42.70 to 43.70): VU0  
Ion 57.00 (56.70 to 57.70): VU0





#19

1,1-Dichloroethane

Concen: 43.77 ug/L

RT: 3.45 min Scan# 889

Delta R.T. -0.00 min

Lab File: VU023724.D

Acq: 07 May 2018 19:55

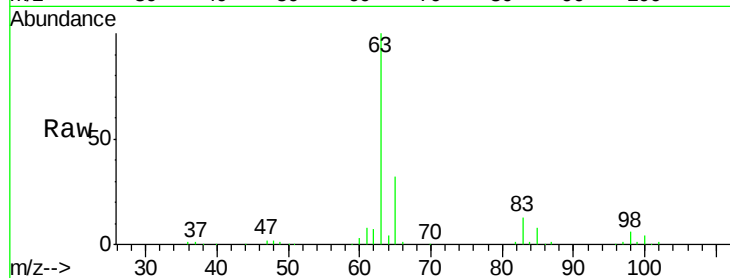
Tgt Ion: 63 Resp: 264103

Ion Ratio Lower Upper

63 100

65 32.3 22.3 41.5

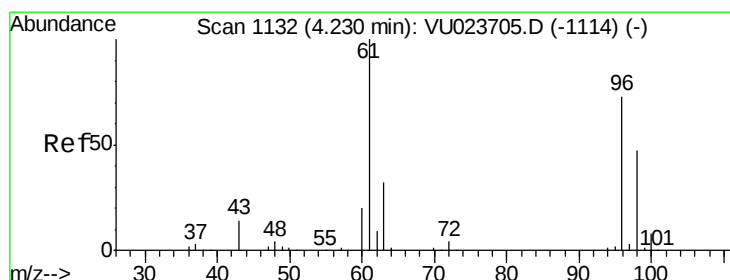
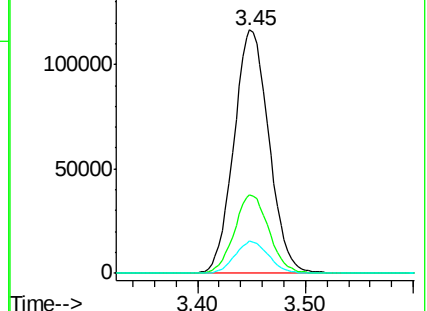
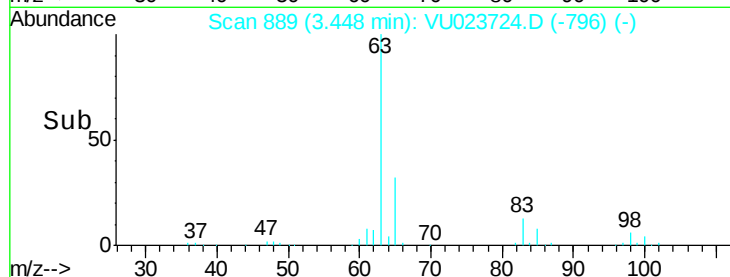
83 13.1 8.7 16.1



Abundance Ion 63.00 (62.70 to 63.70): VU0

Ion 65.00 (64.70 to 65.70): VU0

Ion 83.00 (82.70 to 83.70): VU0



#20

cis-1,2-Dichloroethene

Concen: 45.49 ug/L

RT: 4.23 min Scan# 1132

Delta R.T. -0.00 min

Lab File: VU023724.D

Acq: 07 May 2018 19:55

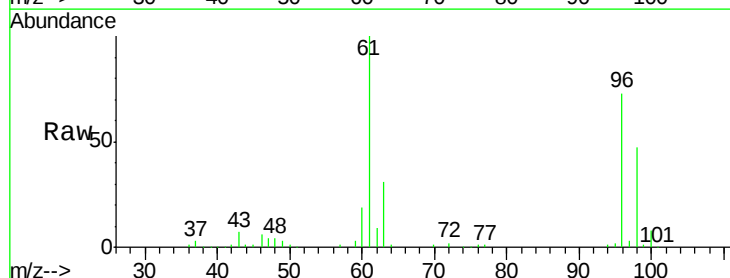
Tgt Ion: 96 Resp: 153523

Ion Ratio Lower Upper

96 100

61 136.8 95.3 177.1

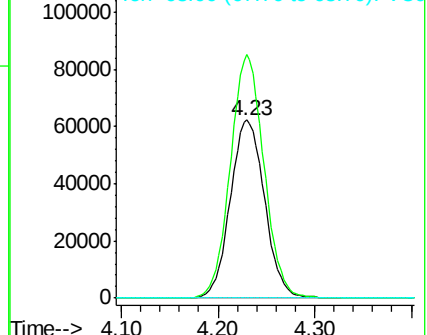
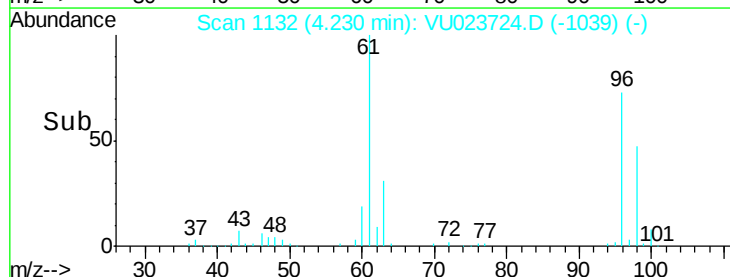
68 0.0 0.0 0.0

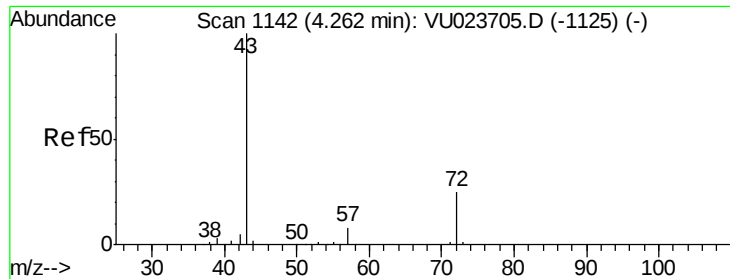


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 68.00 (67.70 to 68.70): VU0





#22

2-Butanone

Concen: 86.22 ug/L

RT: 4.27 min Scan# 1143

Delta R.T. 0.00 min

Lab File: VU023724.D

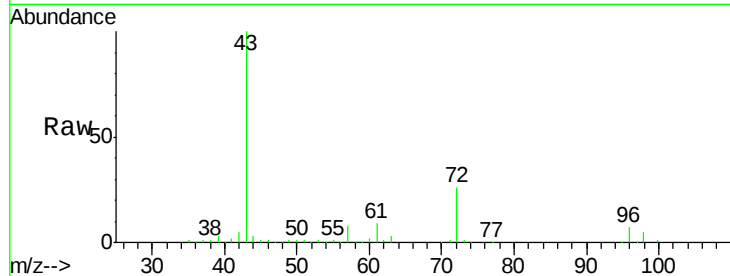
Acq: 07 May 2018 19:55

Tgt Ion: 43 Resp: 265601

Ion Ratio Lower Upper

43 100

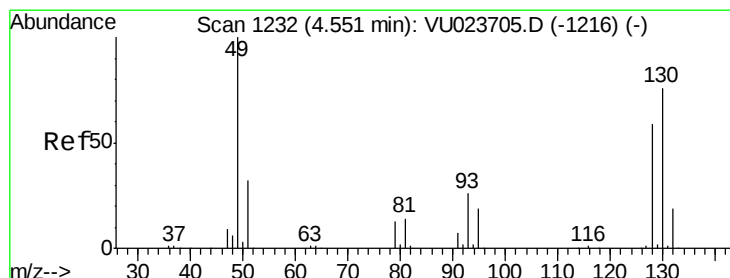
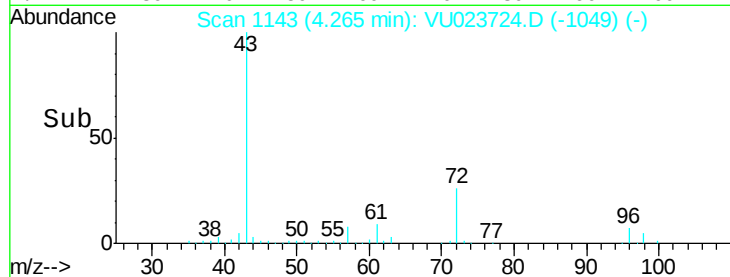
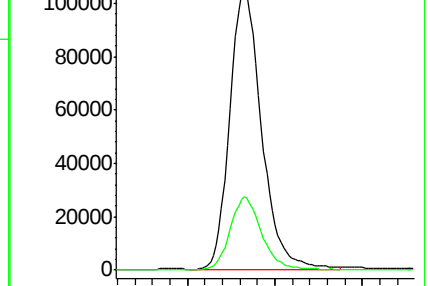
72 26.2 12.3 36.8



Abundance Ion 43.00 (42.70 to 43.70): VU023724.D (-1143) (-)

Ion 72.00 (71.70 to 72.70): VU023724.D (-1143) (-)

4.27



#23

Bromochloromethane

Concen: 44.75 ug/L

RT: 4.55 min Scan# 1233

Delta R.T. 0.00 min

Lab File: VU023724.D

Acq: 07 May 2018 19:55

Tgt Ion: 128 Resp: 75802

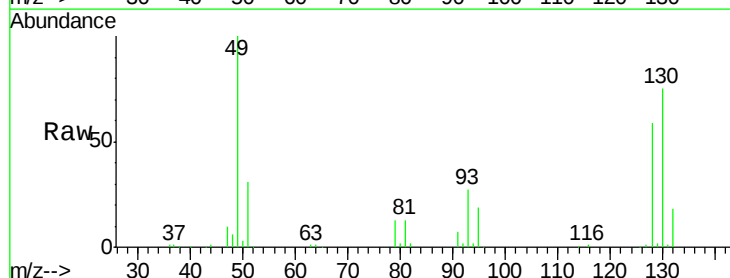
Ion Ratio Lower Upper

128 100

49 170.2 123.7 229.7

130 128.0 90.6 168.3

51 53.1 45.0 67.6

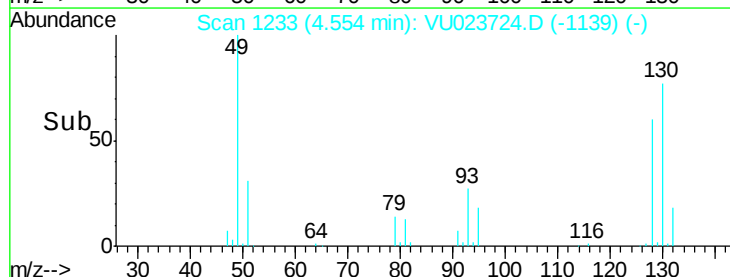
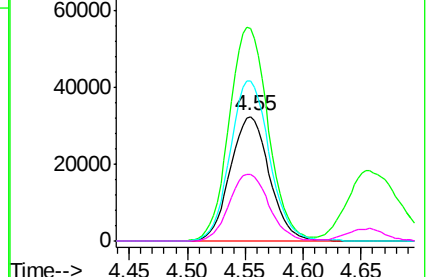


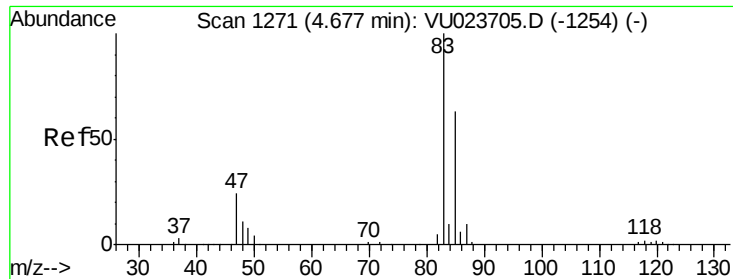
Abundance Ion 128.00 (127.70 to 128.70): VU023724.D (-1233) (-)

Ion 49.00 (48.70 to 49.70): VU023724.D (-1233) (-)

Ion 130.00 (129.70 to 130.70): VU023724.D (-1233) (-)

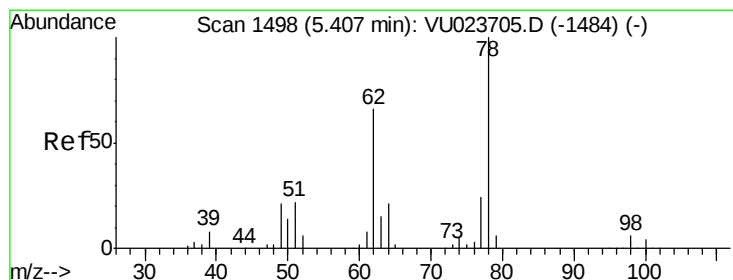
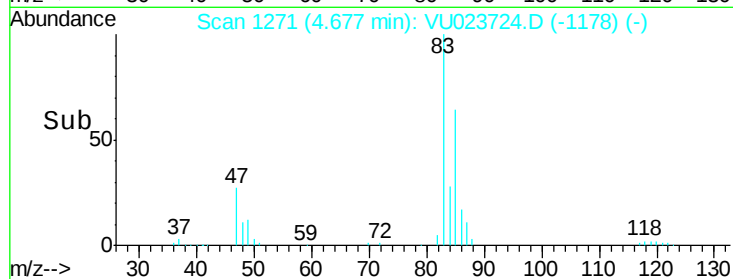
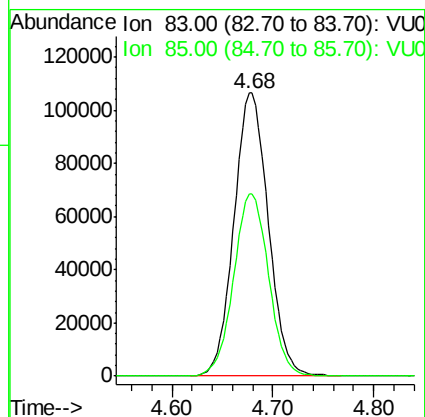
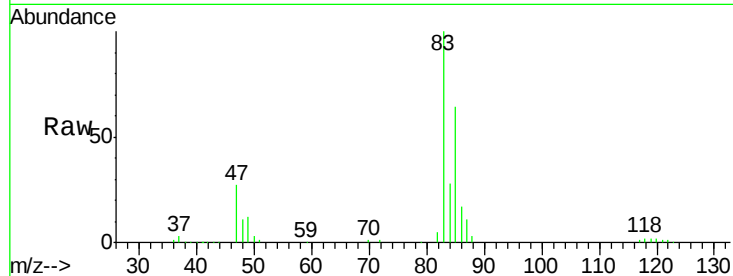
Ion 51.00 (50.70 to 51.70): VU023724.D (-1233) (-)





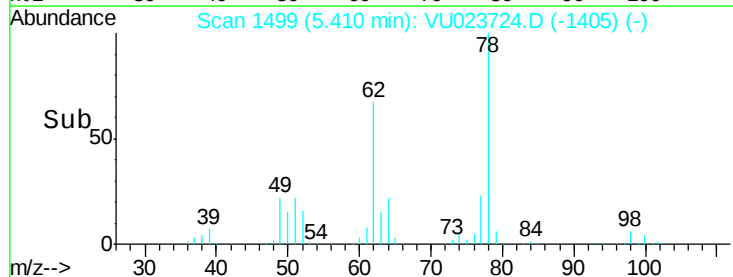
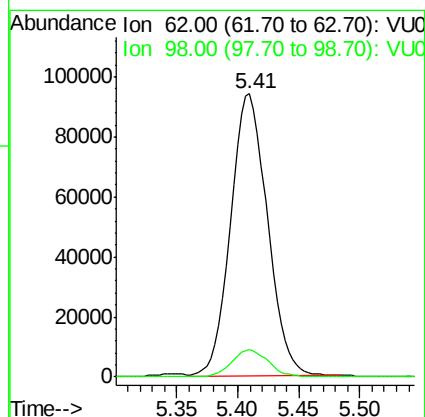
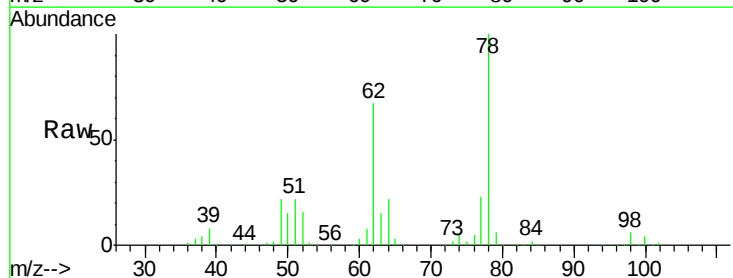
#25  
Chloroform  
Concen: 40.70 ug/L  
RT: 4.68 min Scan# 1271  
Delta R.T. -0.00 min  
Lab File: VU023724.D  
Acq: 07 May 2018 19:55

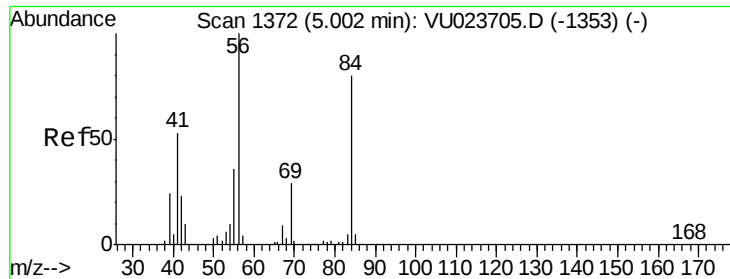
Tgt Ion: 83 Resp: 251832  
Ion Ratio Lower Upper  
83 100  
85 64.2 44.4 82.5



#27  
1,2-Dichloroethane  
Concen: 43.11 ug/L  
RT: 5.41 min Scan# 1499  
Delta R.T. 0.00 min  
Lab File: VU023724.D  
Acq: 07 May 2018 19:55

Tgt Ion: 62 Resp: 197805  
Ion Ratio Lower Upper  
62 100  
98 9.6 7.3 10.9





#29

Cyclohexane

Concen: 44.96 ug/L

RT: 5.00 min Scan# 1372

Delta R.T. -0.00 min

Lab File: VU023724.D

Acq: 07 May 2018 19:55

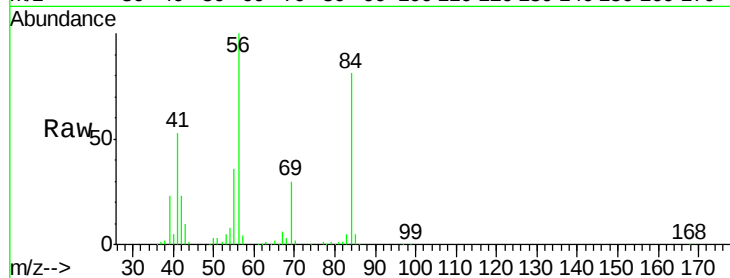
Tgt Ion: 56 Resp: 242229

Ion Ratio Lower Upper

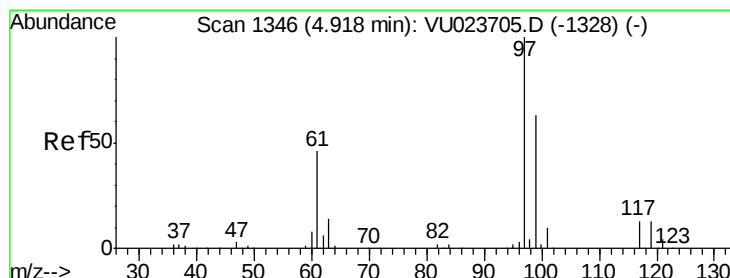
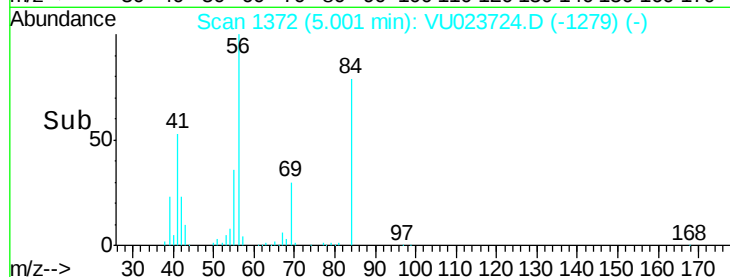
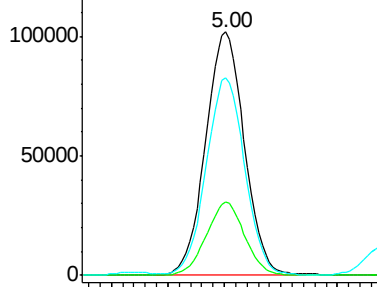
56 100

69 29.9 23.5 35.3

84 81.4 63.8 95.8



Abundance Ion 56.00 (55.70 to 56.70): VU0  
Ion 69.00 (68.70 to 69.70): VU0  
Ion 84.00 (83.70 to 84.70): VU0



#30

1,1,1-Trichloroethane

Concen: 44.15 ug/L

RT: 4.92 min Scan# 1347

Delta R.T. 0.00 min

Lab File: VU023724.D

Acq: 07 May 2018 19:55

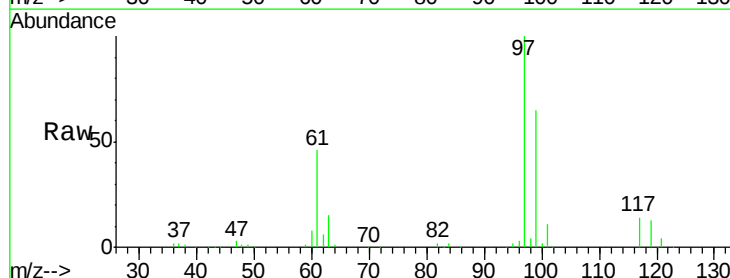
Tgt Ion: 97 Resp: 203817

Ion Ratio Lower Upper

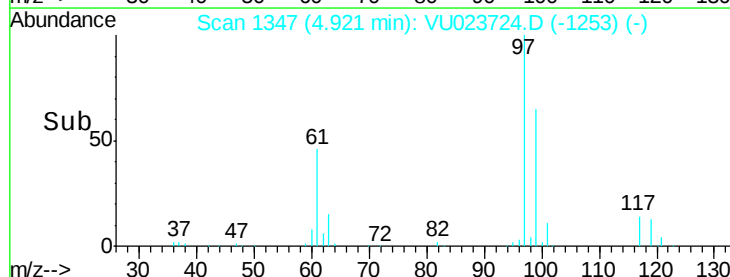
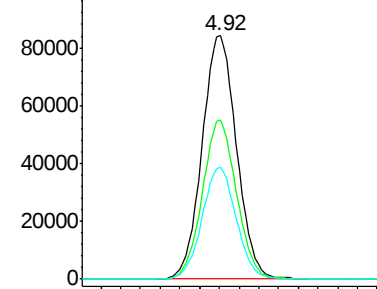
97 100

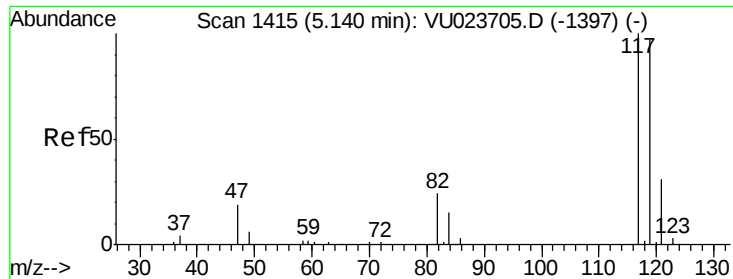
99 64.5 51.8 77.6

61 45.3 37.7 56.5



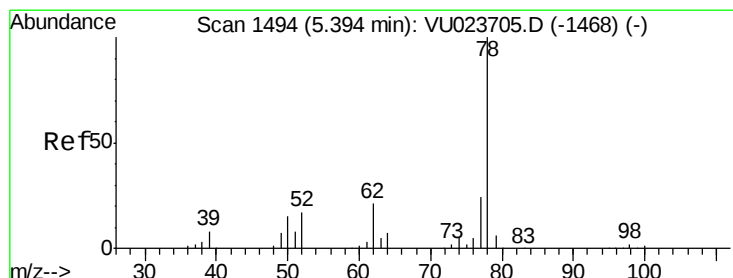
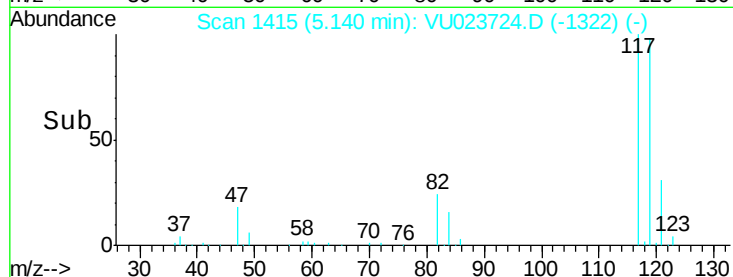
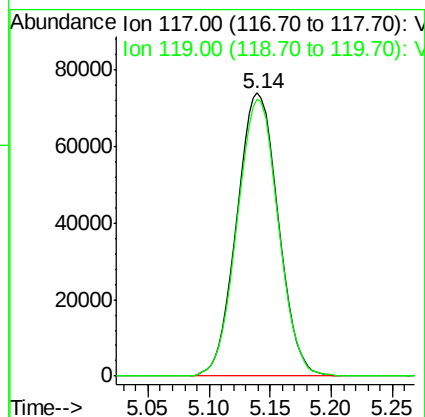
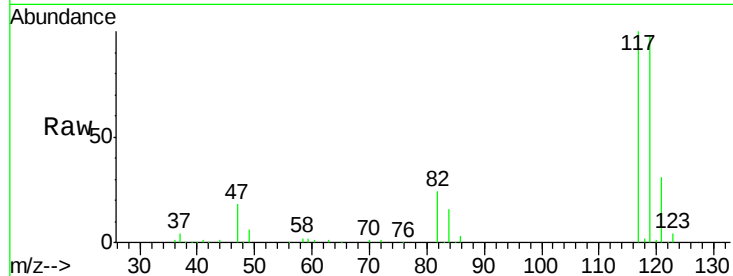
Abundance Ion 97.00 (96.70 to 97.70): VU0  
Ion 99.00 (98.70 to 99.70): VU0  
Ion 61.05 (60.75 to 61.75): VU0





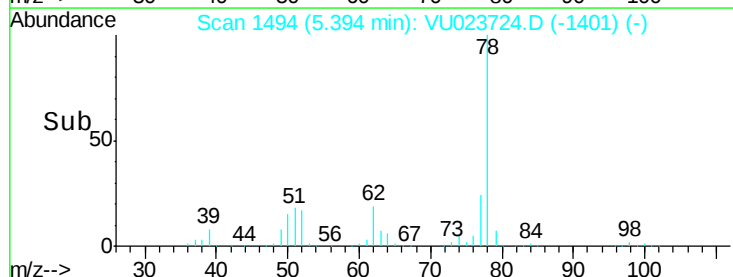
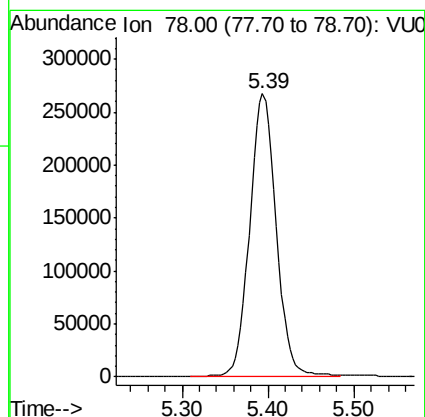
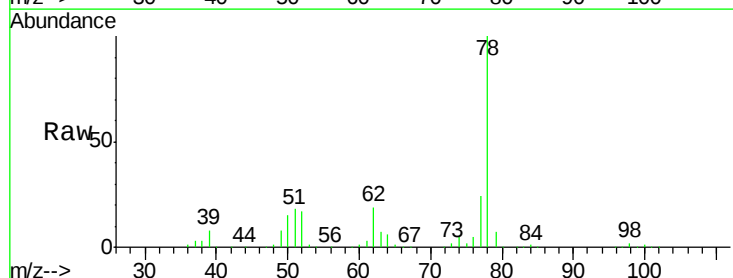
#31  
Carbon tetrachloride  
Concen: 43.36 ug/L  
RT: 5.14 min Scan# 1415  
Delta R.T. -0.00 min  
Lab File: VU023724.D  
Acq: 07 May 2018 19:55

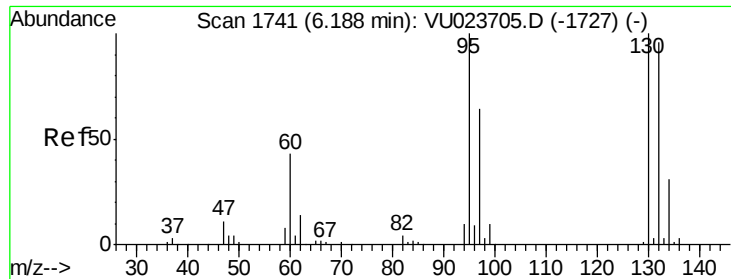
Tgt Ion: 117 Resp: 173945  
Ion Ratio Lower Upper  
117 100  
119 97.1 77.4 116.0



#33  
Benzene  
Concen: 44.85 ug/L  
RT: 5.39 min Scan# 1494  
Delta R.T. -0.00 min  
Lab File: VU023724.D  
Acq: 07 May 2018 19:55

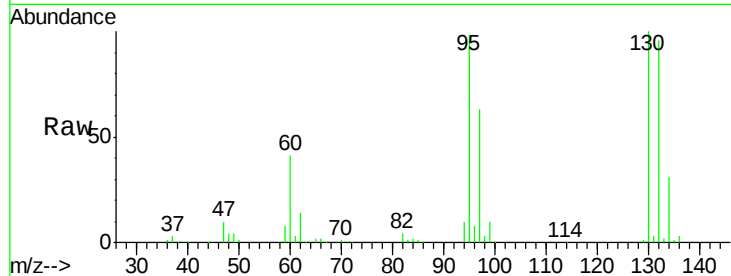
Tgt Ion: 78 Resp: 576079



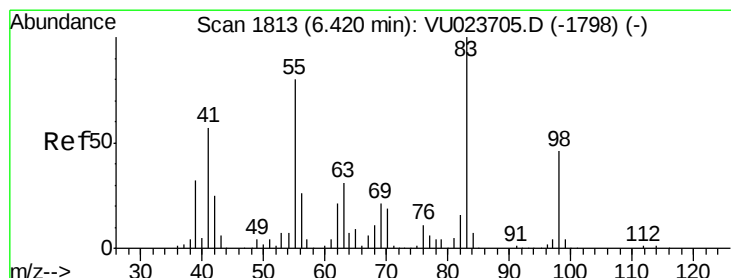
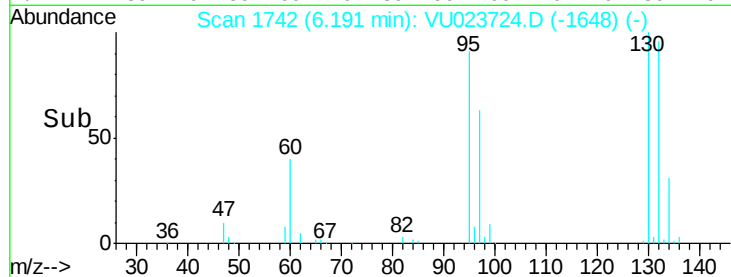
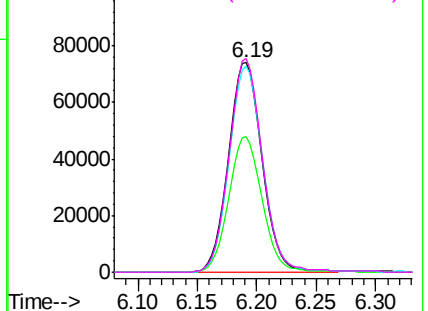


#34  
 Trichloroethene  
 Concen: 44.22 ug/L  
 RT: 6.19 min Scan# 1742  
 Delta R.T. 0.00 min  
 Lab File: VU023724.D  
 Acq: 07 May 2018 19:55

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 95    | Resp: | 145539 |
| Ion      | Ratio | Lower | Upper  |
| 95       | 100   |       |        |
| 97       | 64.7  | 46.3  | 85.9   |
| 132      | 98.3  | 68.5  | 127.1  |
| 130      | 101.9 | 70.8  | 131.4  |

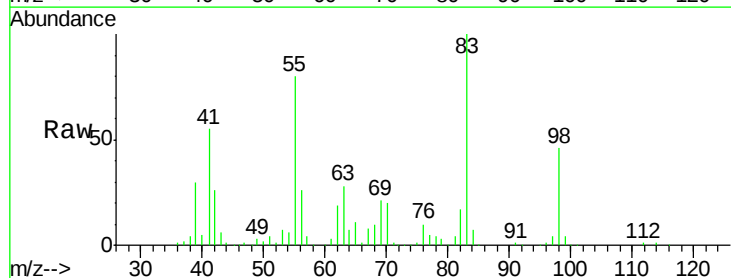


Abundance Ion 95.00 (94.70 to 95.70): VU0  
 Ion 97.00 (96.70 to 97.70): VU0  
 Ion 132.00 (131.70 to 132.70): V  
 Ion 130.00 (129.70 to 130.70): V

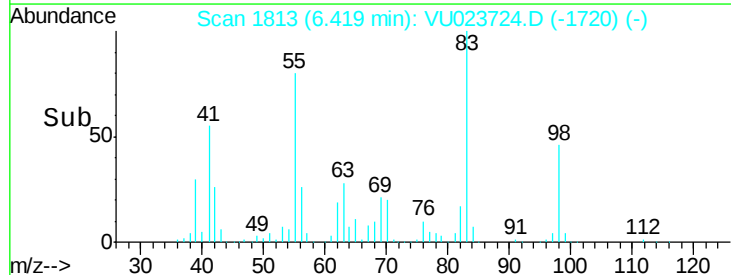
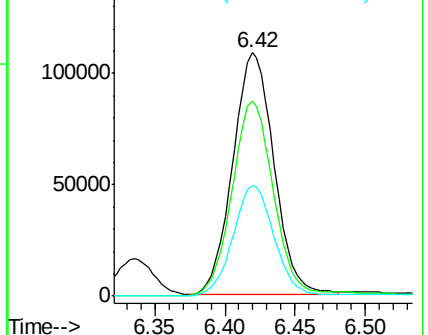


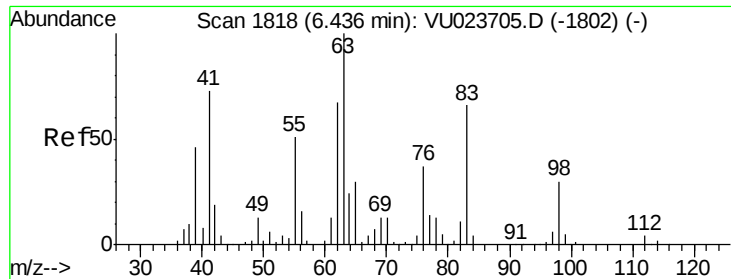
#35  
 Methylcyclohexane  
 Concen: 43.13 ug/L  
 RT: 6.42 min Scan# 1813  
 Delta R.T. -0.00 min  
 Lab File: VU023724.D  
 Acq: 07 May 2018 19:55

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 83    | Resp: | 222002 |
| Ion      | Ratio | Lower | Upper  |
| 83       | 100   |       |        |
| 55       | 81.2  | 66.7  | 100.1  |
| 98       | 45.7  | 36.6  | 54.8   |



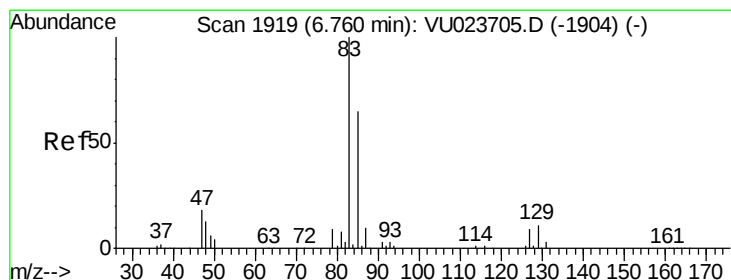
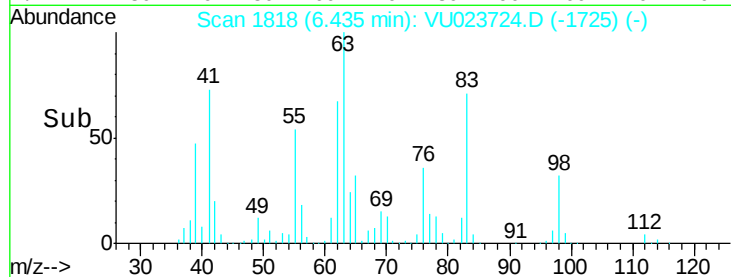
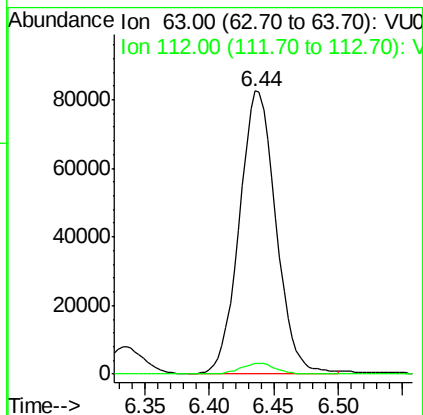
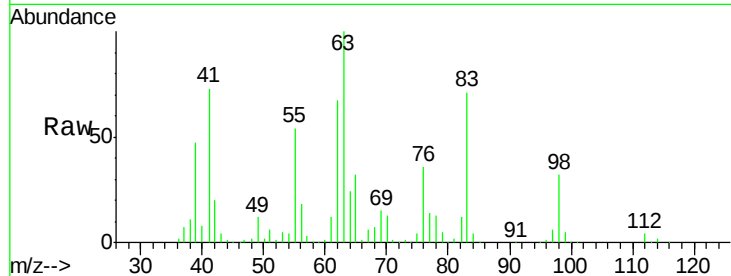
Abundance Ion 83.00 (82.70 to 83.70): VU0  
 Ion 55.00 (54.70 to 55.70): VU0  
 Ion 98.00 (97.70 to 98.70): VU0





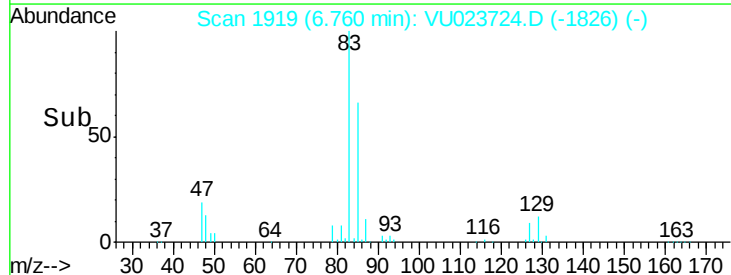
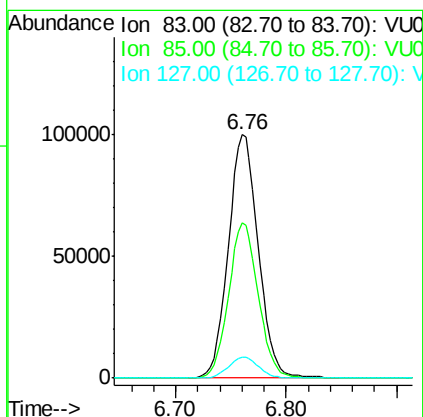
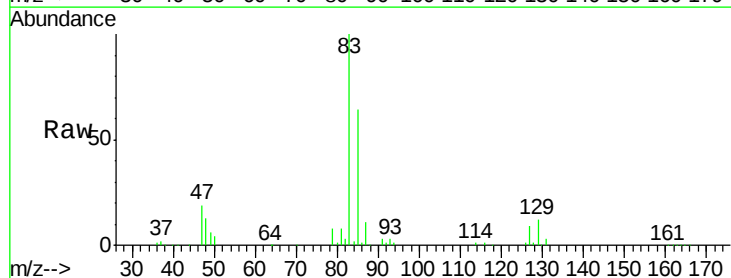
#37  
 1,2-Dichloropropane  
 Concen: 44.14 ug/L  
 RT: 6.44 min Scan# 1818  
 Delta R.T. -0.00 min  
 Lab File: VU023724.D  
 Acq: 07 May 2018 19:55

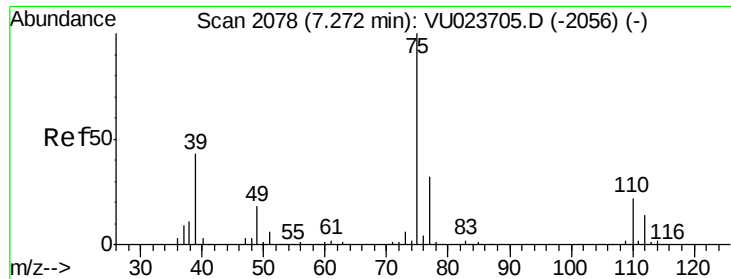
Tgt Ion: 63 Resp: 162503  
 Ion Ratio Lower Upper  
 63 100  
 112 3.6 3.1 4.7



#38  
 Bromodichloromethane  
 Concen: 44.89 ug/L  
 RT: 6.76 min Scan# 1919  
 Delta R.T. -0.00 min  
 Lab File: VU023724.D  
 Acq: 07 May 2018 19:55

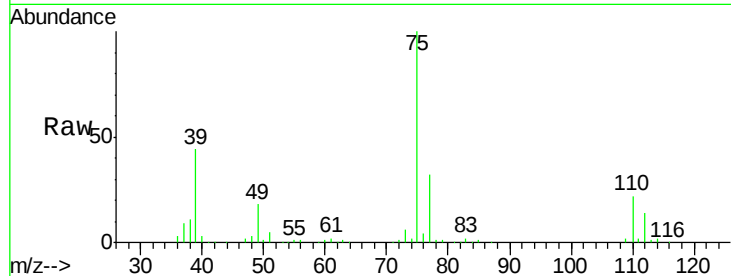
Tgt Ion: 83 Resp: 186445  
 Ion Ratio Lower Upper  
 83 100  
 85 63.6 45.1 83.7  
 127 8.6 6.9 10.3



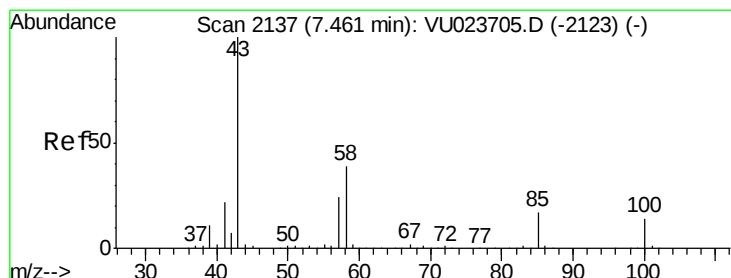
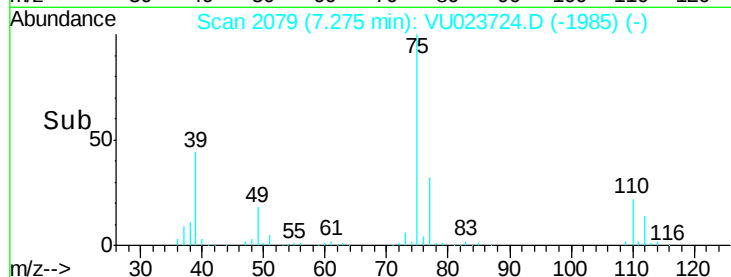
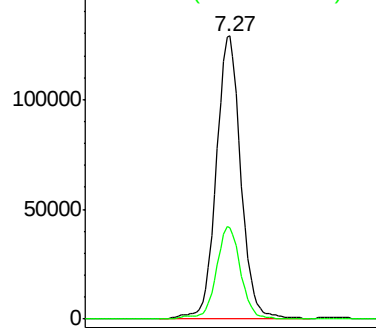


#39  
 cis-1,3-Dichloropropene  
 Concen: 45.89 ug/L  
 RT: 7.27 min Scan# 2079  
 Delta R.T. 0.00 min  
 Lab File: VU023724.D  
 Acq: 07 May 2018 19:55

Tgt Ion: 75 Resp: 232786  
 Ion Ratio Lower Upper  
 75 100  
 77 32.4 22.2 41.2

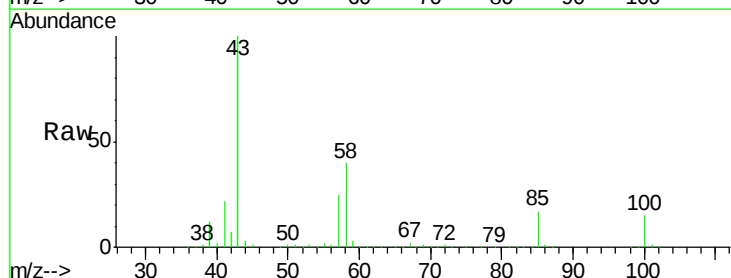


Abundance Ion 75.00 (74.70 to 75.70): VU0  
 Ion 77.00 (76.70 to 77.70): VU0

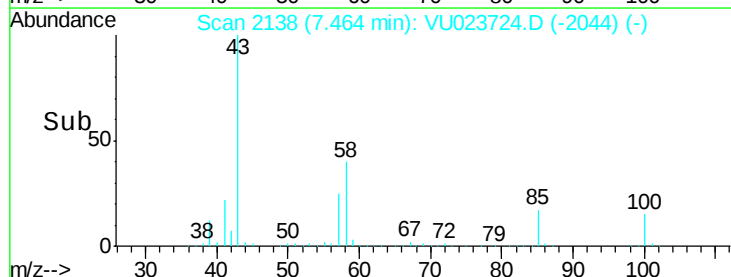
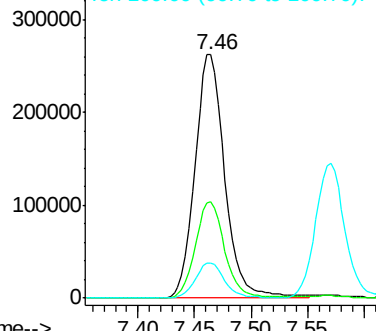


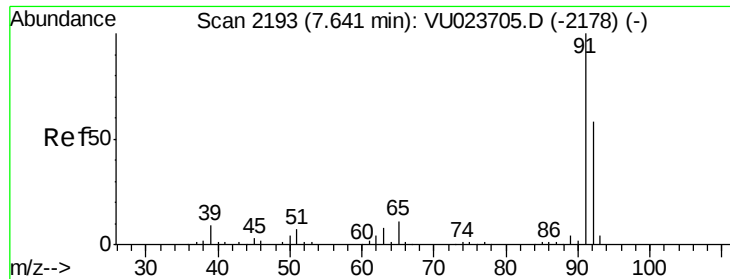
#40  
 4-Methyl-2-pentanone  
 Concen: 107.16 ug/L  
 RT: 7.46 min Scan# 2138  
 Delta R.T. 0.00 min  
 Lab File: VU023724.D  
 Acq: 07 May 2018 19:55

Tgt Ion: 43 Resp: 481642  
 Ion Ratio Lower Upper  
 43 100  
 58 39.2 30.8 46.2  
 100 14.1 10.7 16.1



Abundance Ion 43.00 (42.70 to 43.70): VU0  
 Ion 58.00 (57.70 to 58.70): VU0  
 Ion 100.00 (99.70 to 100.70): VU0





#42

Toluene

Concen: 45.65 ug/L

RT: 7.64 min Scan# 2193

Delta R.T. -0.00 min

Lab File: VU023724.D

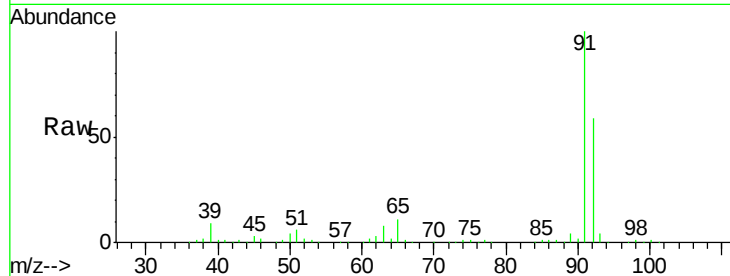
Acq: 07 May 2018 19:55

Tgt Ion: 91 Resp: 607810

Ion Ratio Lower Upper

91 100

92 58.8 40.3 74.9



Abundance Ion 91.00 (90.70 to 91.70): VU023705.D (-2178) (-)

Ion 92.00 (91.70 to 92.70): VU023705.D (-2178) (-)

7.64

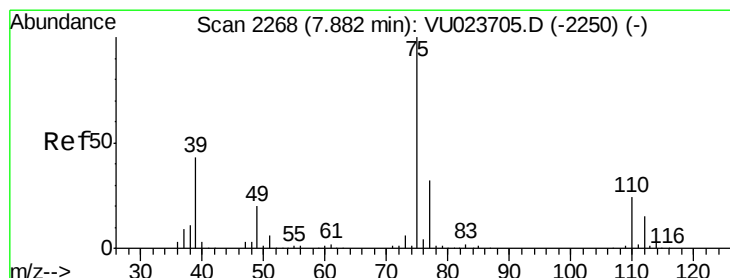
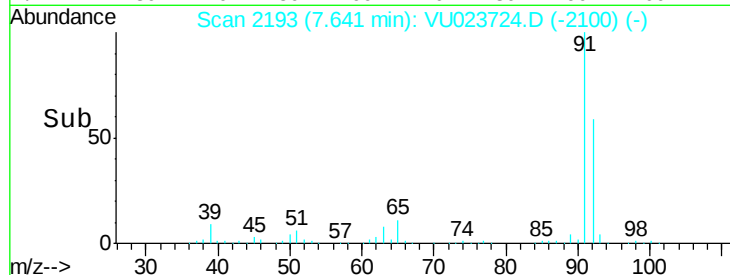
300000

200000

100000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 45.72 ug/L

RT: 7.88 min Scan# 2268

Delta R.T. -0.00 min

Lab File: VU023724.D

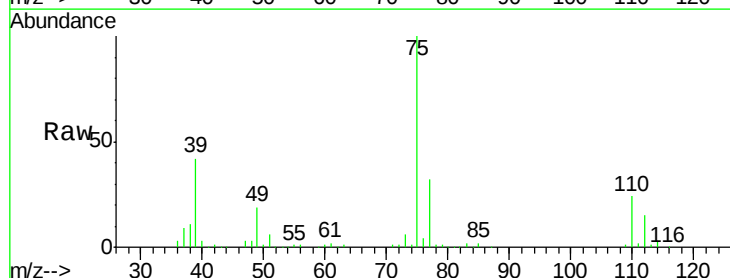
Acq: 07 May 2018 19:55

Tgt Ion: 75 Resp: 206960

Ion Ratio Lower Upper

75 100

77 32.1 22.5 41.7



Abundance Ion 75.00 (74.70 to 75.70): VU023705.D (-2250) (-)

Ion 77.00 (76.70 to 77.70): VU023705.D (-2250) (-)

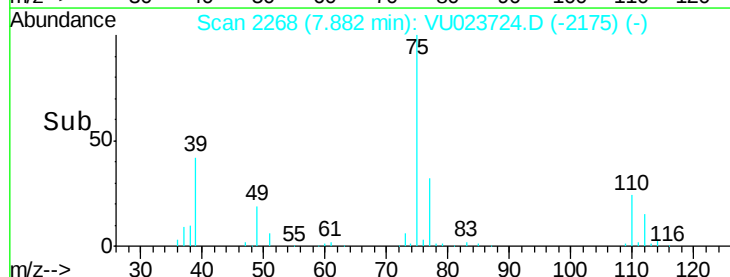
7.88

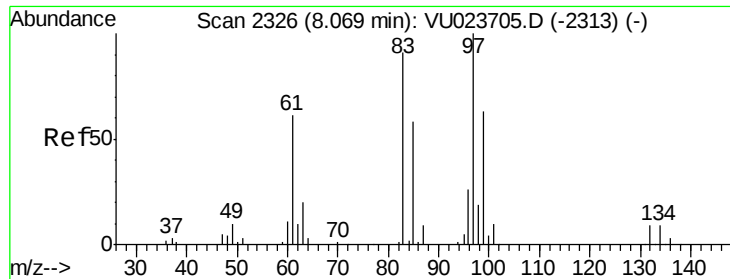
100000

50000

0

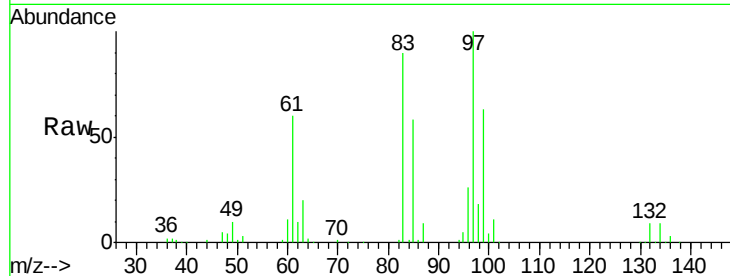
Time-->





#45  
 1,1,2-Trichloroethane  
 Concen: 45.97 ug/L  
 RT: 8.07 min Scan# 2327  
 Delta R.T. 0.00 min  
 Lab File: VU023724.D  
 Acq: 07 May 2018 19:55

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 143784 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 99       | 63.2  | 44.2  | 82.2   |
| 83       | 89.8  | 63.1  | 117.1  |
| 85       | 57.9  | 40.3  | 74.8   |



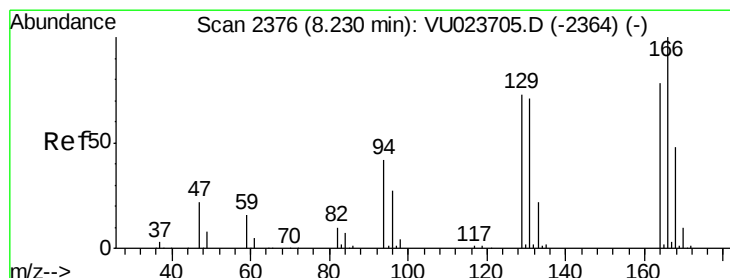
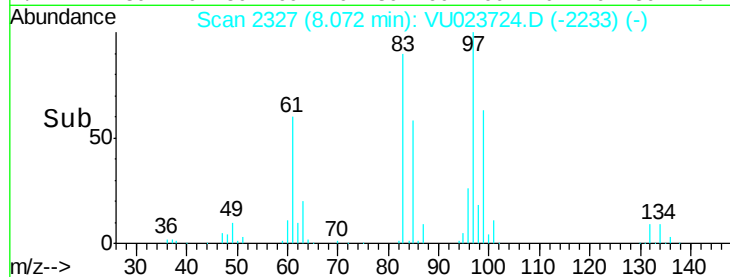
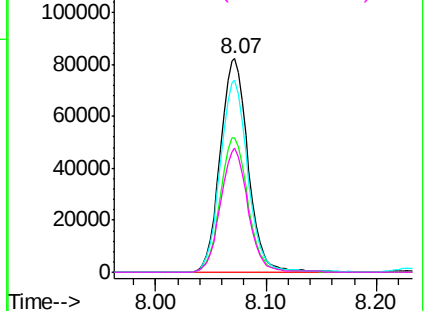
Abundance

Ion 97.00 (96.70 to 97.70): VU023724.D (-2233) (-)

Ion 99.00 (98.70 to 99.70): VU023724.D (-2233) (-)

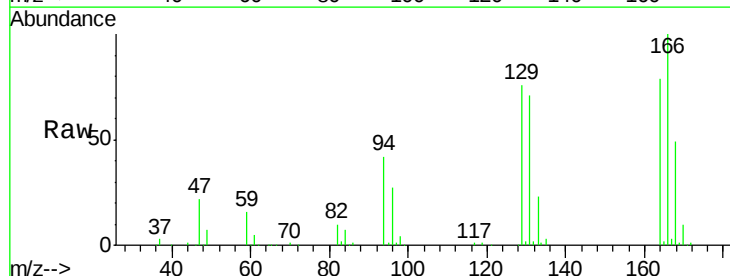
Ion 83.00 (82.70 to 83.70): VU023724.D (-2233) (-)

Ion 85.00 (84.70 to 85.70): VU023724.D (-2233) (-)



#46  
 Tetrachloroethene  
 Concen: 43.89 ug/L  
 RT: 8.23 min Scan# 2376  
 Delta R.T. -0.00 min  
 Lab File: VU023724.D  
 Acq: 07 May 2018 19:55

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 117719 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 129      | 95.3  | 64.2  | 119.2  |
| 131      | 89.8  | 64.1  | 119.1  |
| 166      | 126.1 | 89.4  | 166.0  |



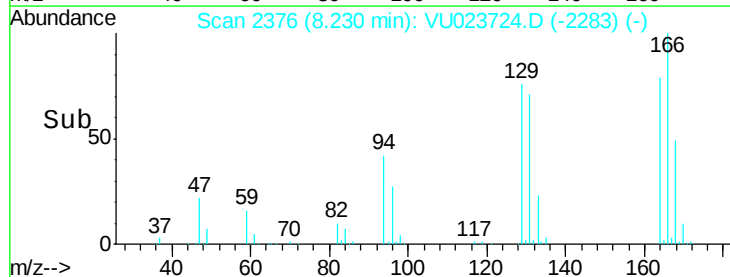
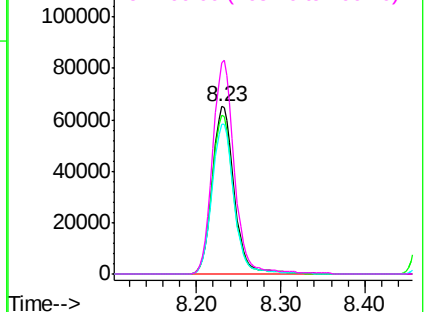
Abundance

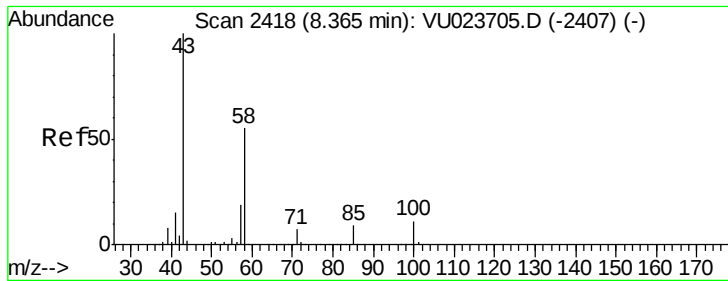
Ion 164.00 (163.70 to 164.70): VU023724.D (-2283) (-)

Ion 129.00 (128.70 to 129.70): VU023724.D (-2283) (-)

Ion 131.00 (130.70 to 131.70): VU023724.D (-2283) (-)

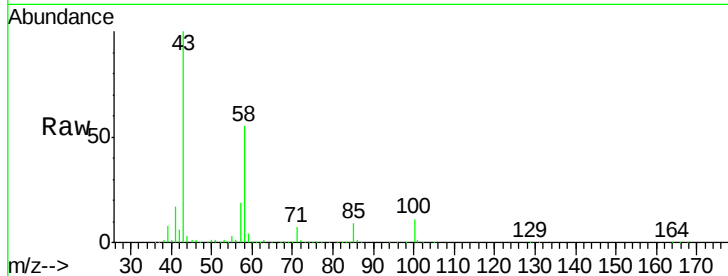
Ion 166.00 (165.70 to 166.70): VU023724.D (-2283) (-)



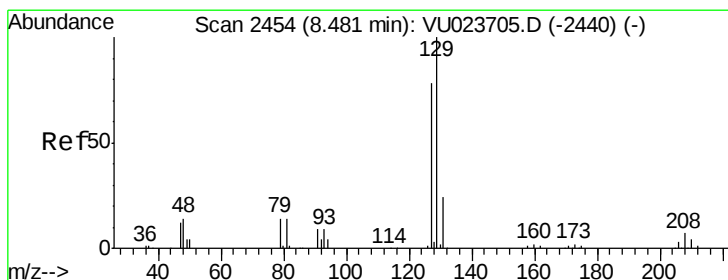
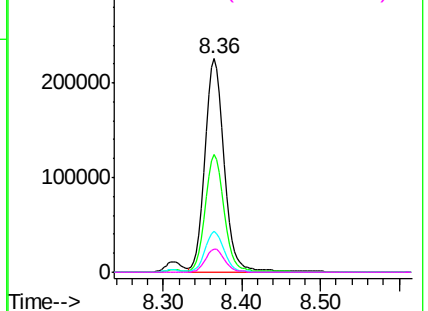
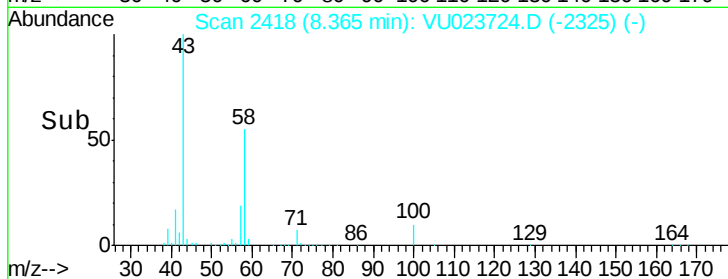


#48  
2-Hexanone  
Concen: 97.39 ug/L  
RT: 8.36 min Scan# 2418  
Delta R.T. -0.00 min  
Lab File: VU023724.D  
Acq: 07 May 2018 19:55

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 381266 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 58       | 53.2  | 43.0  | 64.6   |
| 57       | 18.8  | 14.6  | 22.0   |
| 100      | 10.8  | 8.4   | 12.6   |

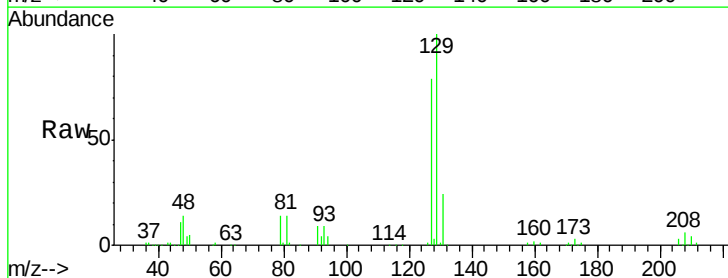


Abundance Ion 43.00 (42.70 to 43.70): VU023724.D (-2325) (-)  
Ion 58.00 (57.70 to 58.70): VU023724.D (-2325) (-)  
Ion 57.00 (56.70 to 57.70): VU023724.D (-2325) (-)  
Ion 100.00 (99.70 to 100.70): VU023724.D (-2325) (-)

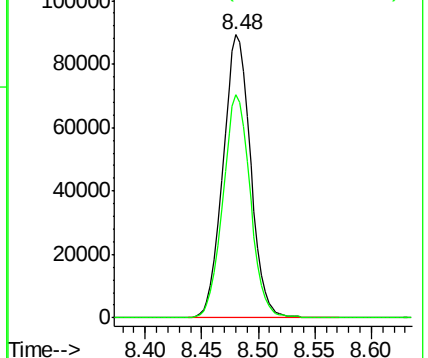
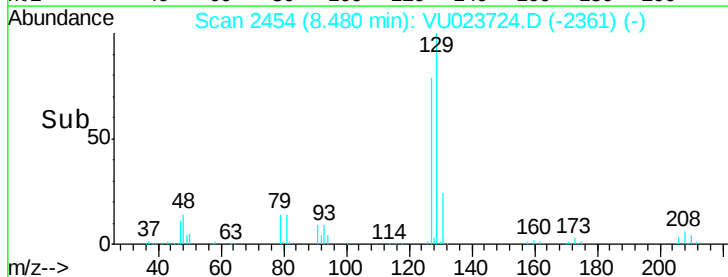


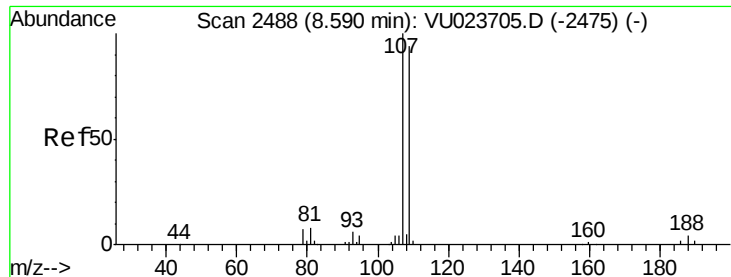
#49  
Dibromochloromethane  
Concen: 45.93 ug/L  
RT: 8.48 min Scan# 2454  
Delta R.T. -0.00 min  
Lab File: VU023724.D  
Acq: 07 May 2018 19:55

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 129   | Resp: | 151327 |
| Ion      | Ratio | Lower | Upper  |
| 129      | 100   |       |        |
| 127      | 79.0  | 53.3  | 99.1   |



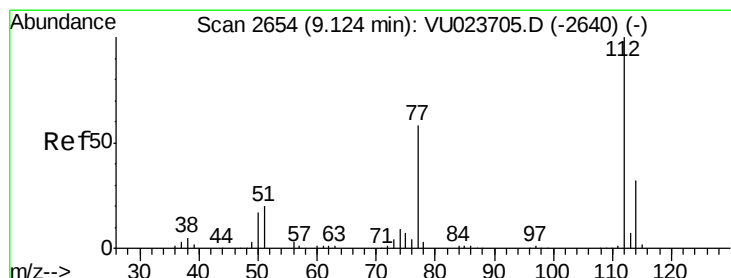
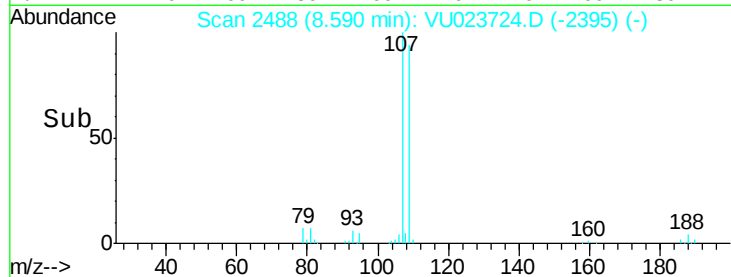
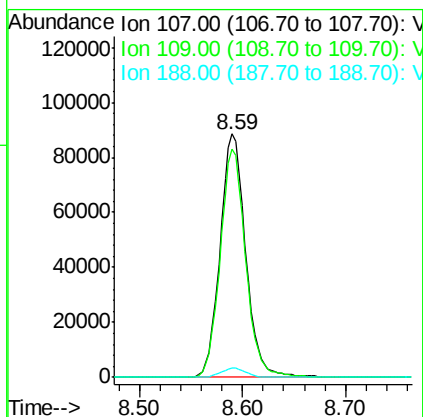
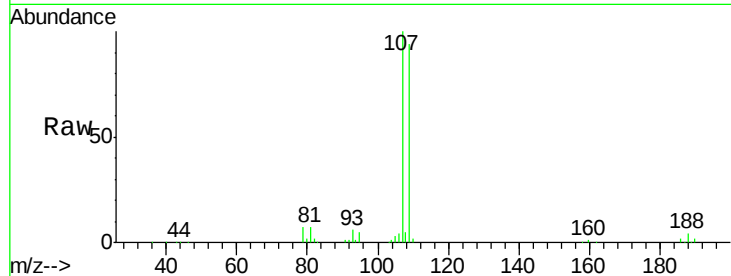
Abundance Ion 129.00 (128.70 to 129.70): VU023724.D (-2361) (-)  
Ion 127.00 (126.70 to 127.70): VU023724.D (-2361) (-)





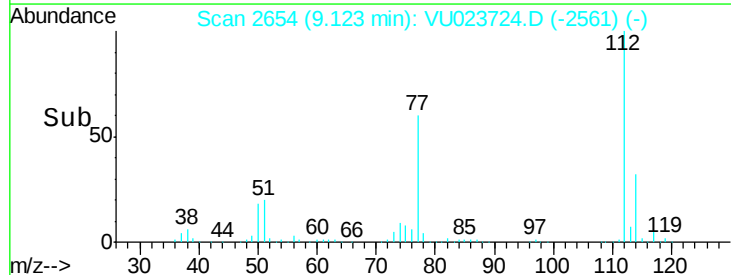
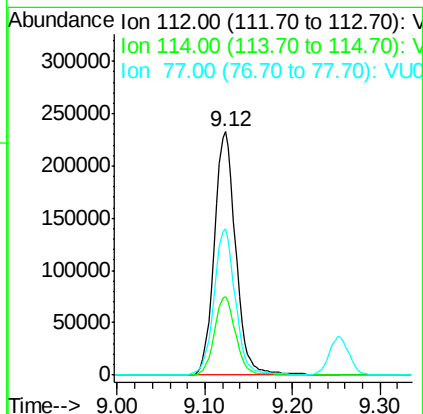
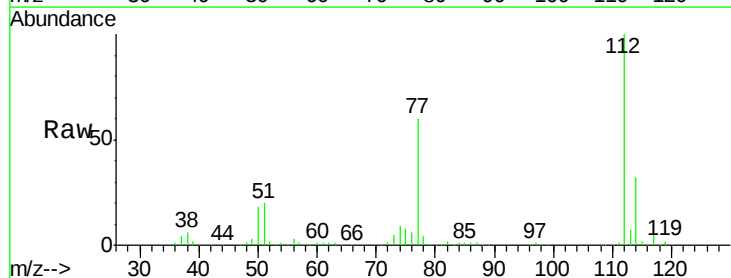
#50  
 1,2-Dibromoethane  
 Concen: 48.29 ug/L  
 RT: 8.59 min Scan# 2488  
 Delta R.T. -0.00 min  
 Lab File: VU023724.D  
 Acq: 07 May 2018 19:55

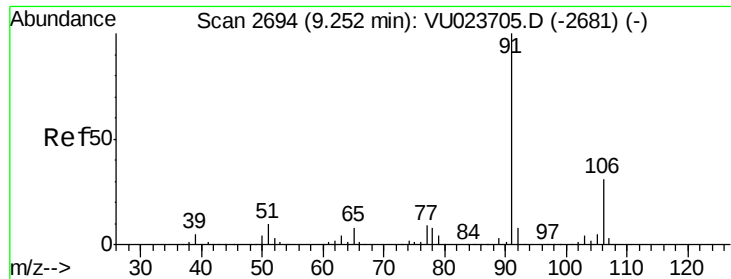
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 107   | Resp: | 152554 |
| Ion      | Ratio | Lower | Upper  |
| 107      | 100   |       |        |
| 109      | 93.9  | 66.1  | 122.7  |
| 188      | 3.8   | 3.2   | 4.8    |



#51  
 Chlorobenzene  
 Concen: 44.59 ug/L  
 RT: 9.12 min Scan# 2654  
 Delta R.T. -0.00 min  
 Lab File: VU023724.D  
 Acq: 07 May 2018 19:55

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 112   | Resp: | 395590 |
| Ion      | Ratio | Lower | Upper  |
| 112      | 100   |       |        |
| 114      | 32.4  | 22.7  | 42.3   |
| 77       | 60.0  | 47.5  | 71.3   |





#52

Ethylbenzene

Concen: 47.09 ug/L

RT: 9.25 min Scan# 2694

Delta R.T. -0.00 min

Lab File: VU023724.D

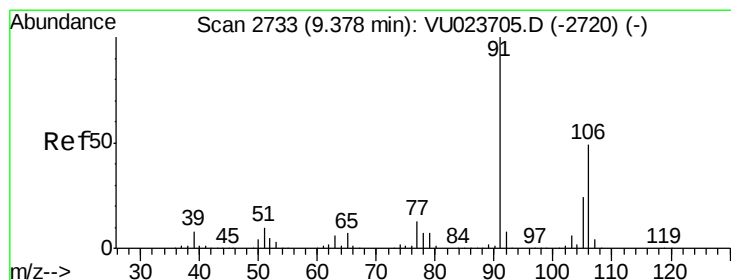
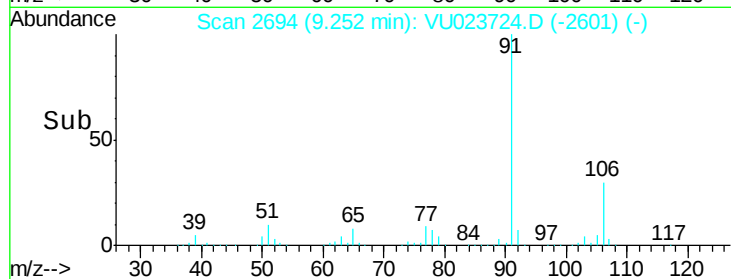
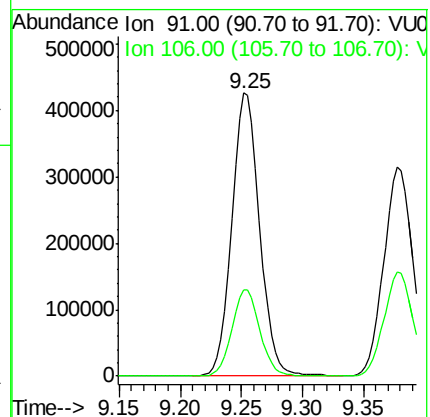
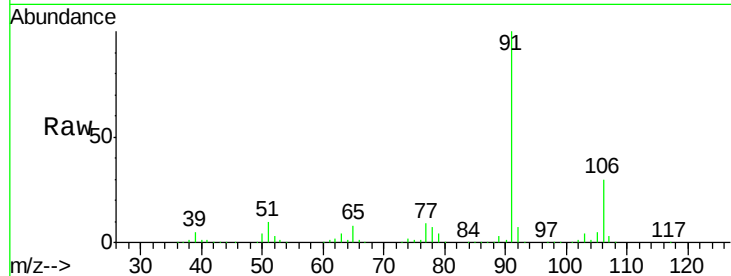
Acq: 07 May 2018 19:55

Tgt Ion: 91 Resp: 679578

Ion Ratio Lower Upper

91 100

106 30.4 21.6 40.0



#53

m,p-Xylene

Concen: 47.05 ug/L

RT: 9.38 min Scan# 2733

Delta R.T. -0.00 min

Lab File: VU023724.D

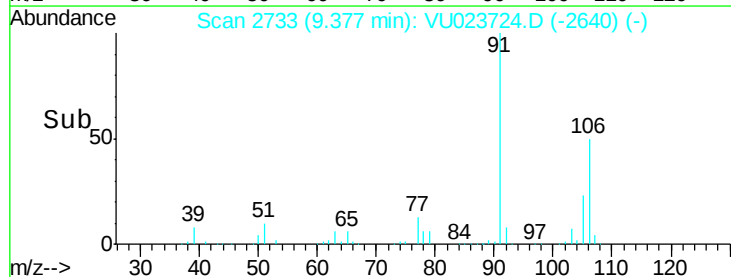
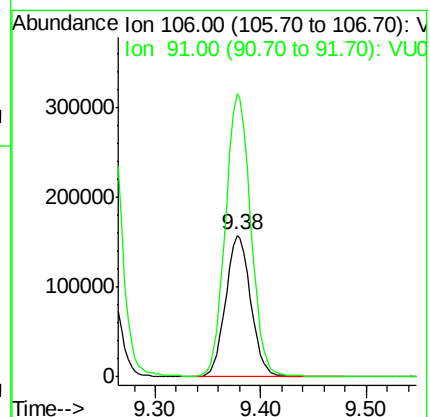
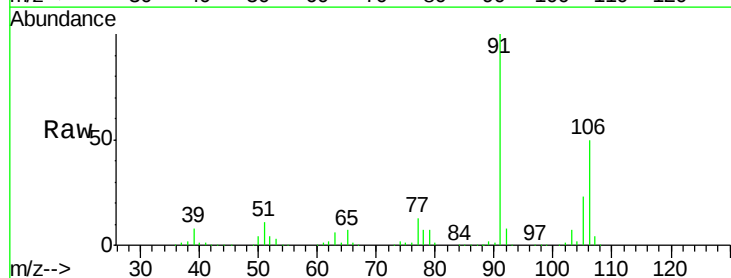
Acq: 07 May 2018 19:55

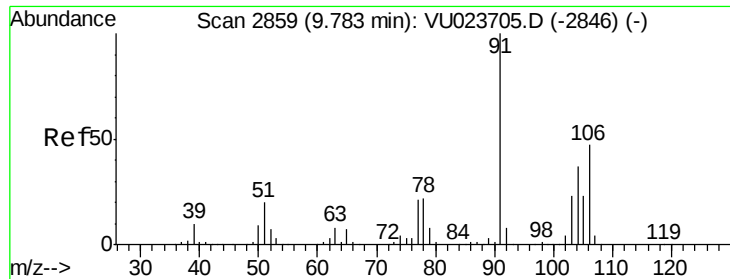
Tgt Ion: 106 Resp: 259004

Ion Ratio Lower Upper

106 100

91 200.2 144.1 267.5





#54

o-xylene

Concen: 48.66 ug/L

RT: 9.78 min Scan# 2859

Delta R.T. -0.00 min

Lab File: VU023724.D

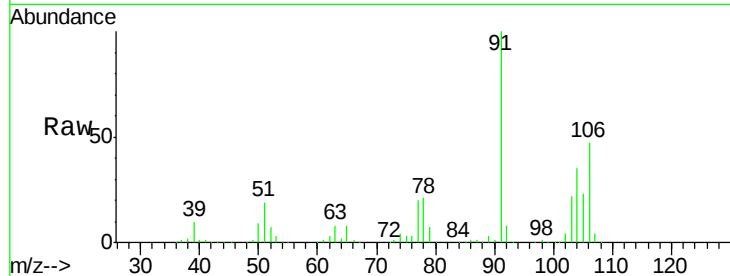
Acq: 07 May 2018 19:55

Tgt Ion:106 Resp: 253763

Ion Ratio Lower Upper

106 100

91 210.6 148.9 276.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0

400000

300000

200000

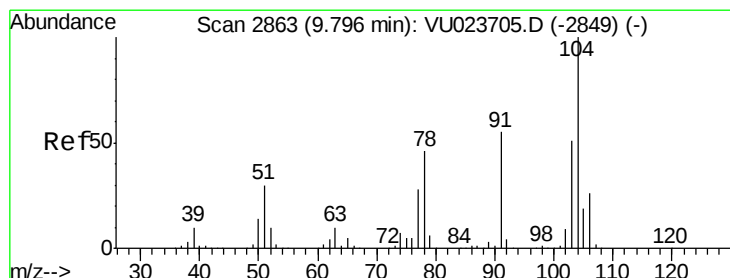
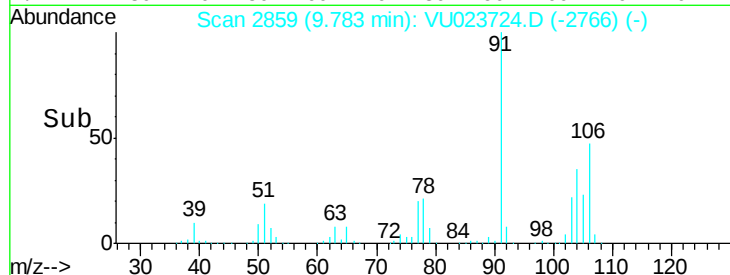
100000

0

9.78

9.75 9.80 9.85

Time-->



#55

Styrene

Concen: 47.95 ug/L

RT: 9.80 min Scan# 2863

Delta R.T. -0.00 min

Lab File: VU023724.D

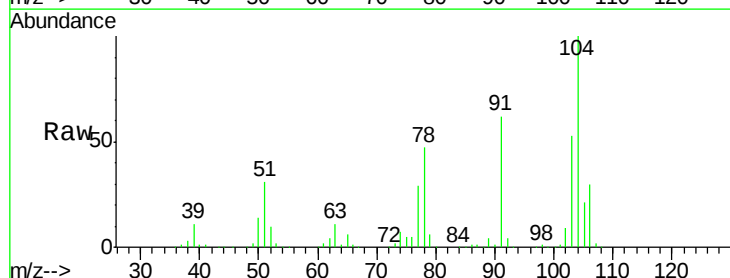
Acq: 07 May 2018 19:55

Tgt Ion:104 Resp: 437455

Ion Ratio Lower Upper

104 100

78 47.0 32.1 59.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0

300000

250000

200000

150000

100000

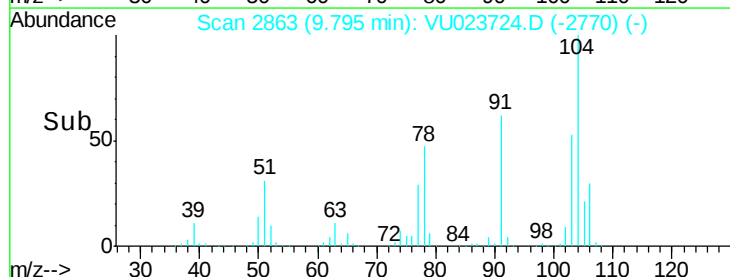
50000

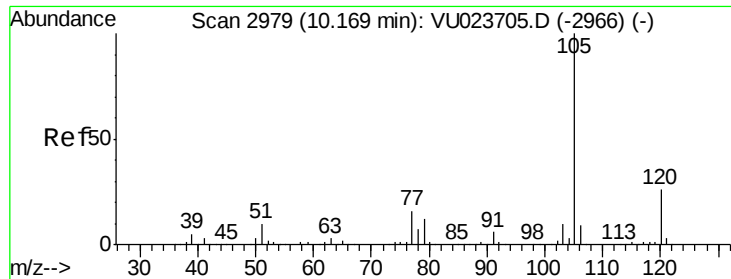
0

9.80

9.75 9.80 9.85

Time-->





#56

Isopropylbenzene

Concen: 48.55 ug/L

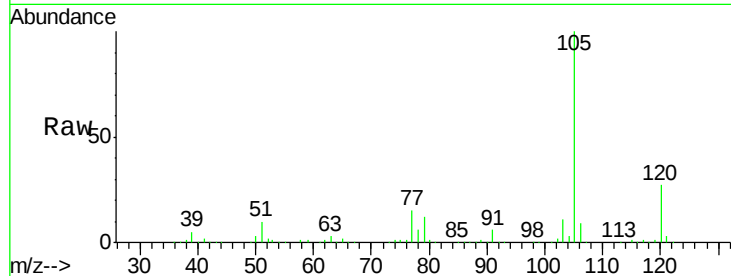
RT: 10.17 min Scan# 2979

Delta R.T. -0.00 min

Lab File: VU023724.D

Acq: 07 May 2018 19:55

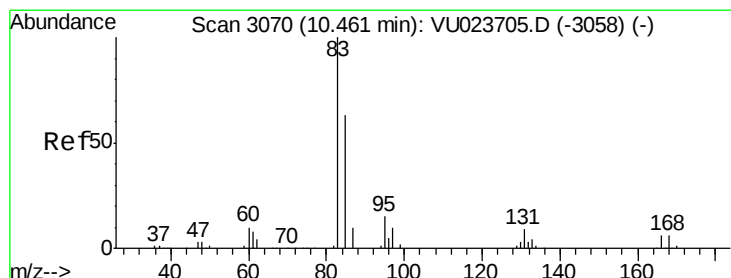
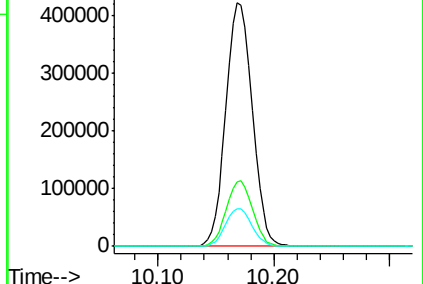
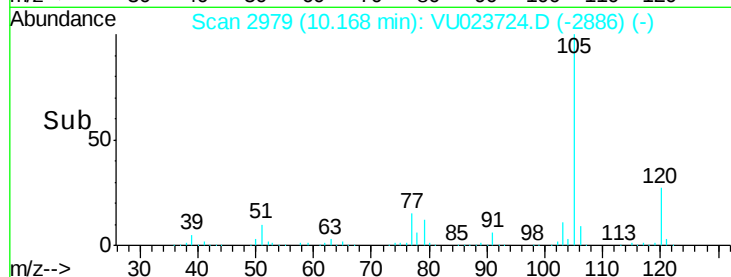
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 105   | Resp: | 664535 |
| Ion      | Ratio | Lower | Upper  |
| 105      | 100   |       |        |
| 120      | 26.7  | 20.9  | 31.3   |
| 77       | 15.4  | 12.6  | 18.8   |



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 48.74 ug/L

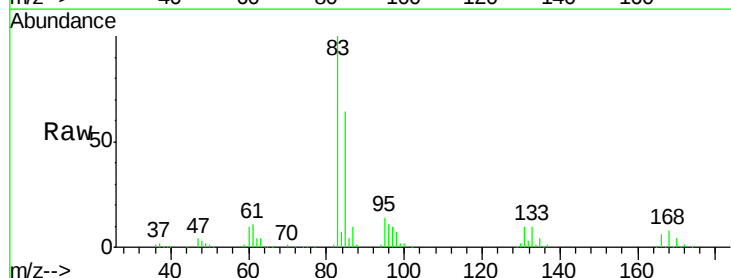
RT: 10.46 min Scan# 3070

Delta R.T. -0.00 min

Lab File: VU023724.D

Acq: 07 May 2018 19:55

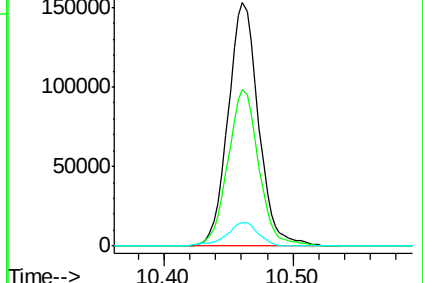
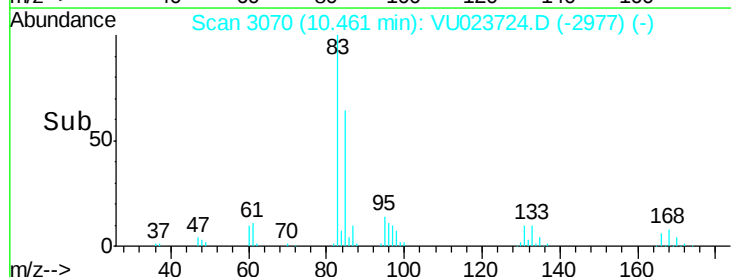
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 83    | Resp: | 250314 |
| Ion      | Ratio | Lower | Upper  |
| 83       | 100   |       |        |
| 85       | 64.1  | 45.6  | 84.6   |
| 131      | 9.8   | 7.9   | 11.9   |

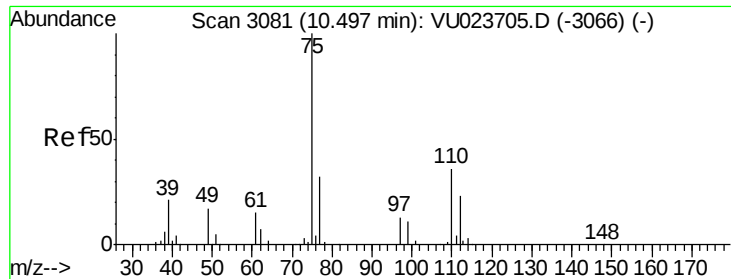


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

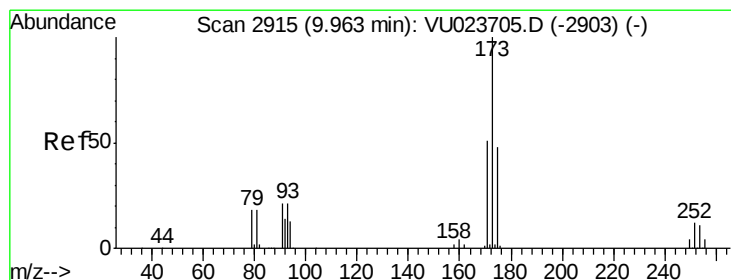
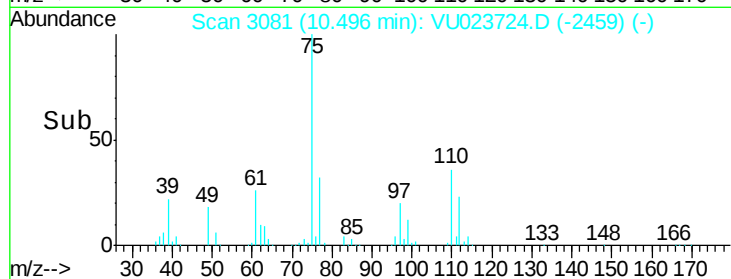
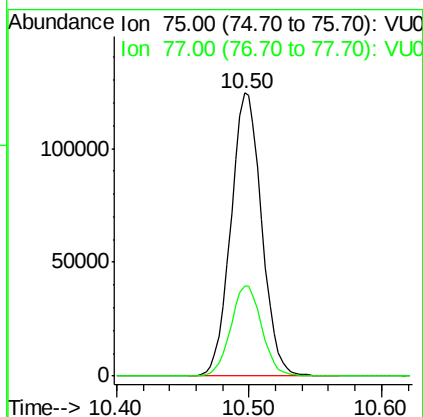
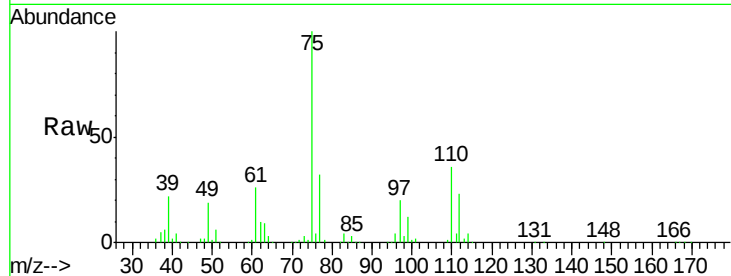
Ion 131.00 (130.70 to 131.70): V





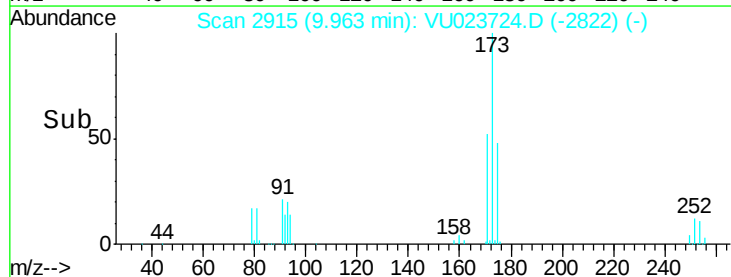
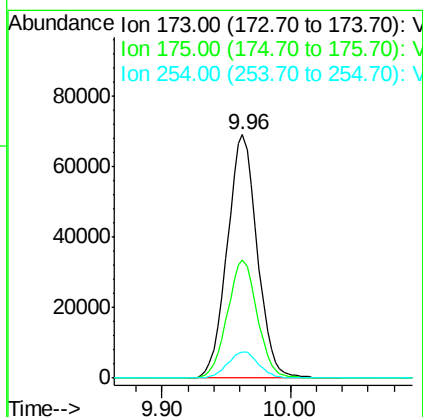
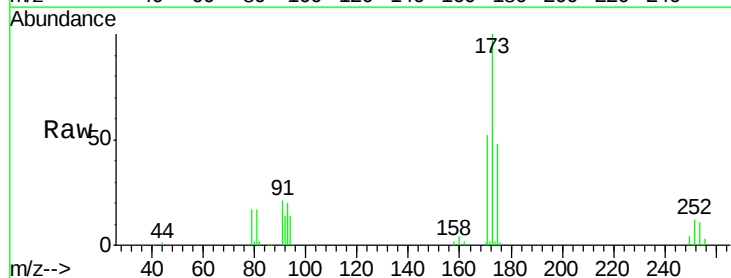
#59  
 1,2,3-Trichloropropane  
 Concen: 49.33 ug/L  
 RT: 10.50 min Scan# 3081  
 Delta R.T. -0.00 min  
 Lab File: VU023724.D  
 Acq: 07 May 2018 19:55

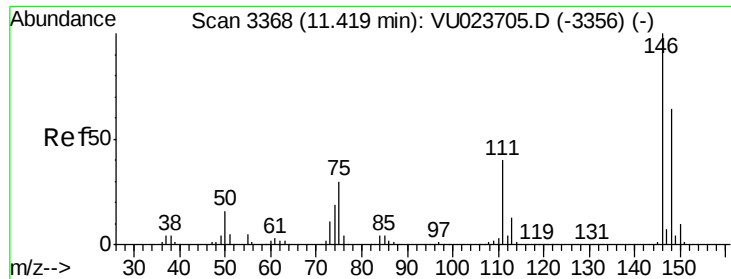
Tgt Ion: 75 Resp: 200499  
 Ion Ratio Lower Upper  
 75 100  
 77 32.2 25.9 38.9



#61  
 Bromoform  
 Concen: 45.92 ug/L  
 RT: 9.96 min Scan# 2915  
 Delta R.T. -0.00 min  
 Lab File: VU023724.D  
 Acq: 07 May 2018 19:55

Tgt Ion: 173 Resp: 111248  
 Ion Ratio Lower Upper  
 173 100  
 175 48.6 39.0 58.4  
 254 11.1 8.8 13.2





#62

1,3-Dichlorobenzene

Concen: 46.12 ug/L

RT: 11.42 min Scan# 3369

Delta R.T. 0.00 min

Lab File: VU023724.D

Acq: 07 May 2018 19:55

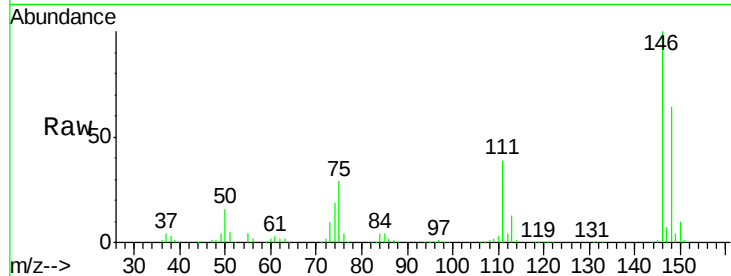
Tgt Ion:146 Resp: 320485

Ion Ratio Lower Upper

146 100

111 39.4 27.9 51.7

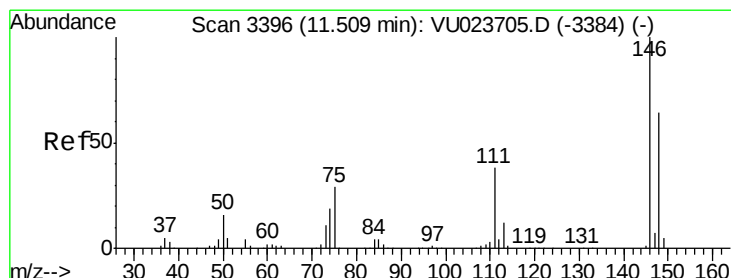
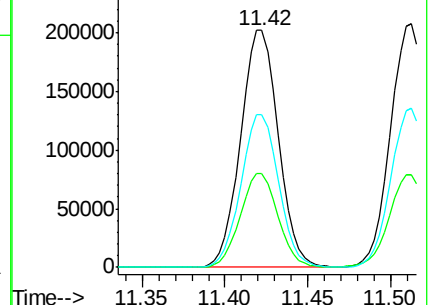
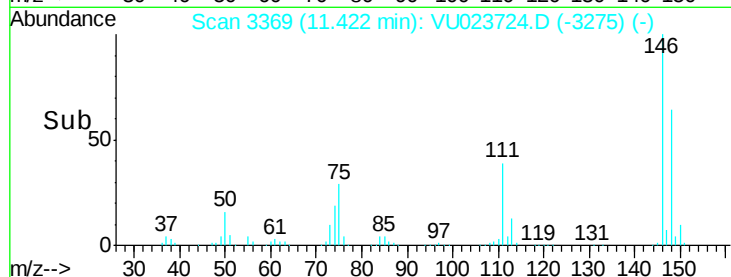
148 64.5 44.4 82.5



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



#63

1,4-Dichlorobenzene

Concen: 44.94 ug/L

RT: 11.51 min Scan# 3397

Delta R.T. 0.00 min

Lab File: VU023724.D

Acq: 07 May 2018 19:55

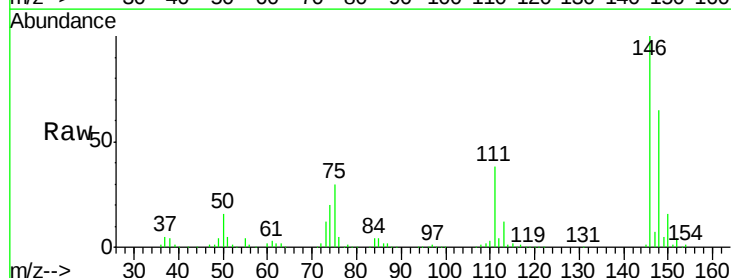
Tgt Ion:146 Resp: 326067

Ion Ratio Lower Upper

146 100

111 37.9 26.8 49.8

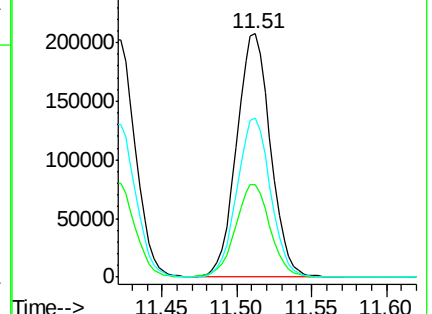
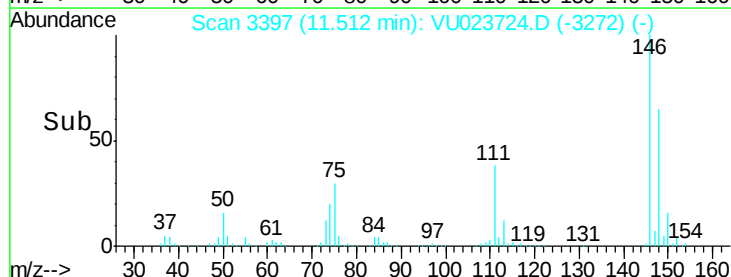
148 65.3 44.8 83.2

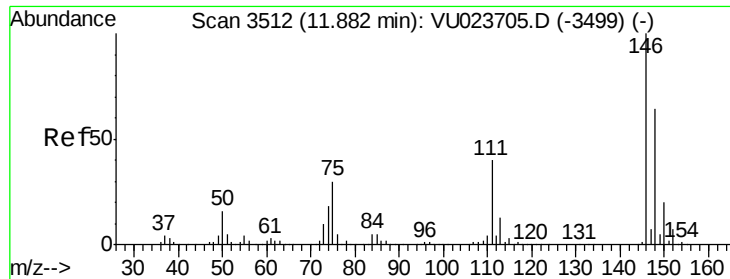


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 45.95 ug/L

RT: 11.88 min Scan# 3512

Delta R.T. -0.00 min

Lab File: VU023724.D

Acq: 07 May 2018 19:55

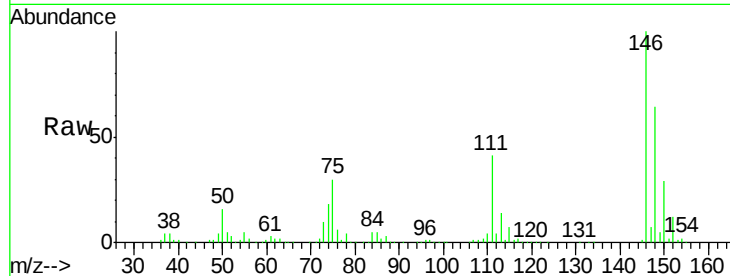
Tgt Ion: 146 Resp: 326684

Ion Ratio Lower Upper

146 100

111 41.3 32.9 49.3

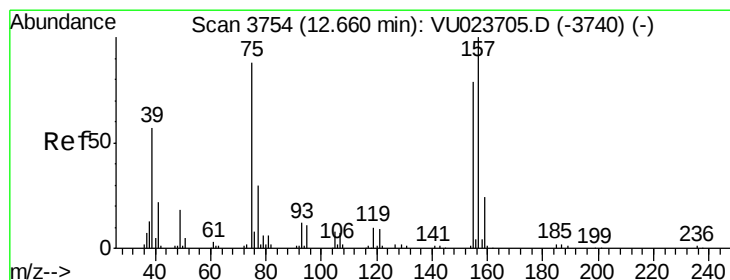
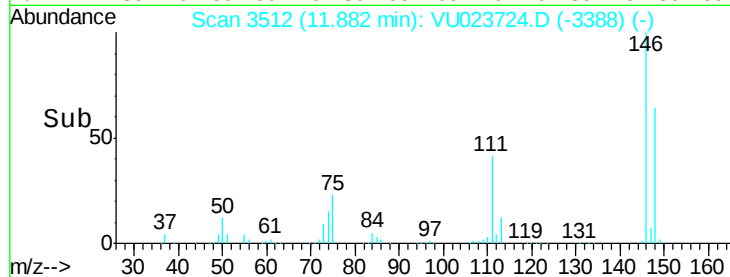
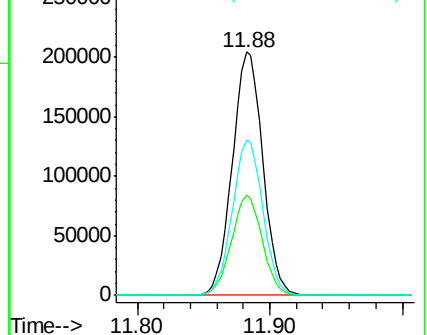
148 63.6 51.0 76.4



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



#66

1,2-Dibromo-3-chloropropane

Concen: 51.63 ug/L

RT: 12.66 min Scan# 3754

Delta R.T. -0.00 min

Lab File: VU023724.D

Acq: 07 May 2018 19:55

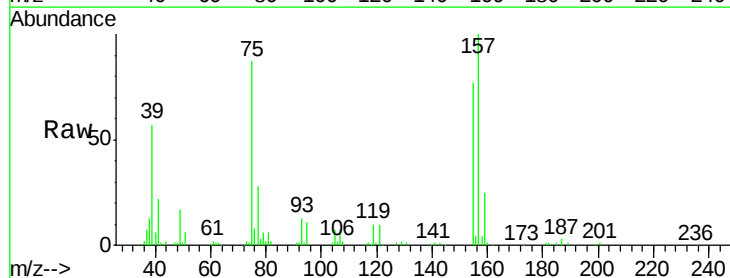
Tgt Ion: 75 Resp: 53293

Ion Ratio Lower Upper

75 100

155 88.9 68.9 103.3

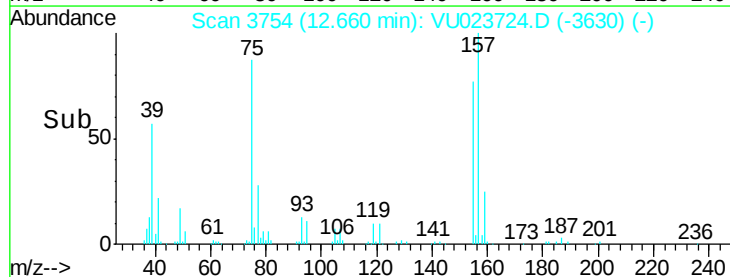
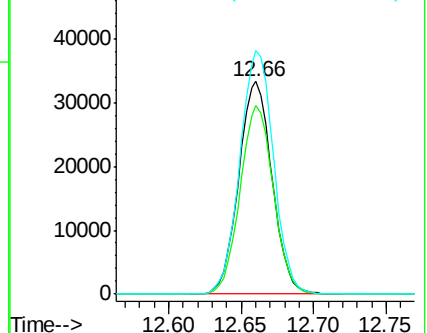
157 114.7 89.9 134.9

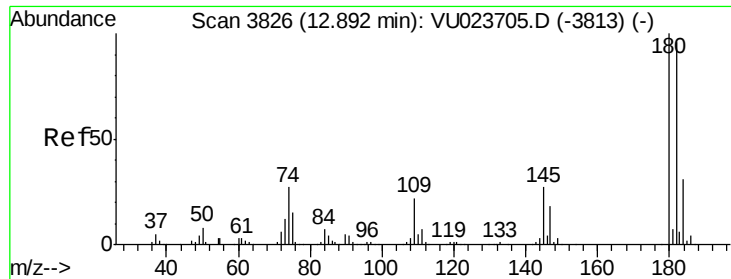


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

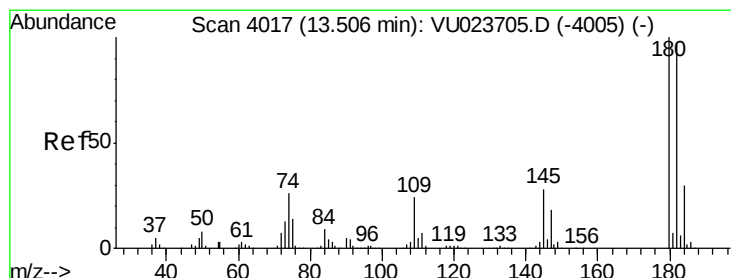
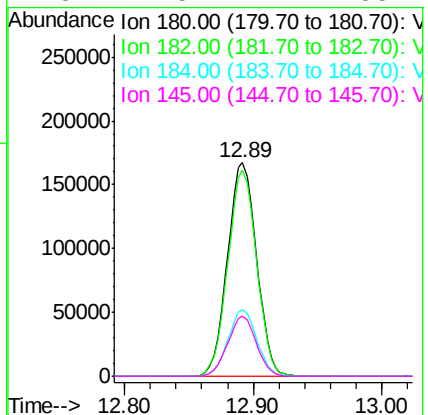
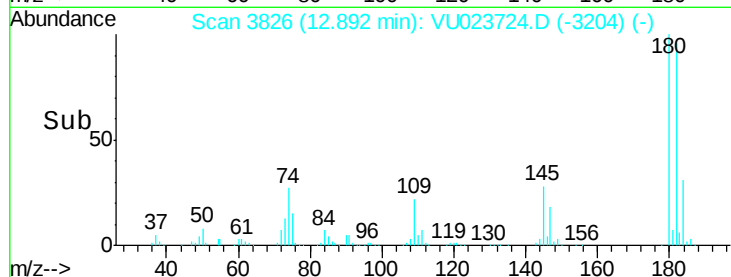
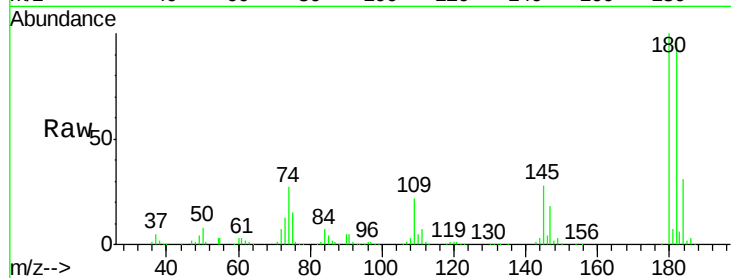
Ion 157.00 (156.70 to 157.70): V





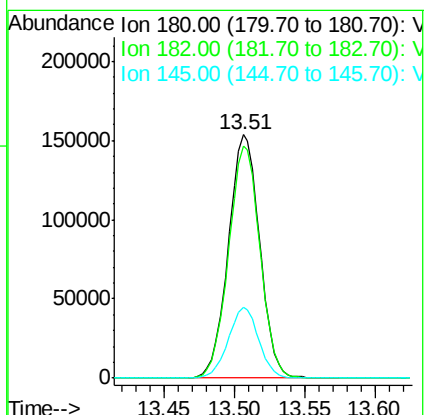
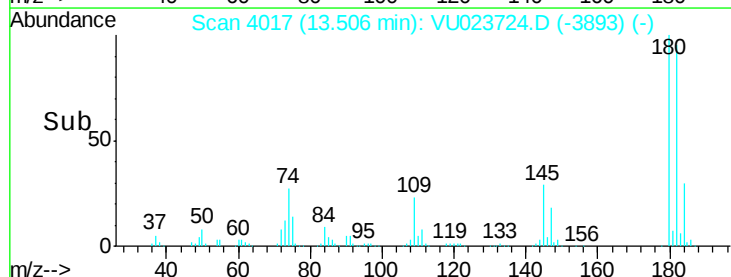
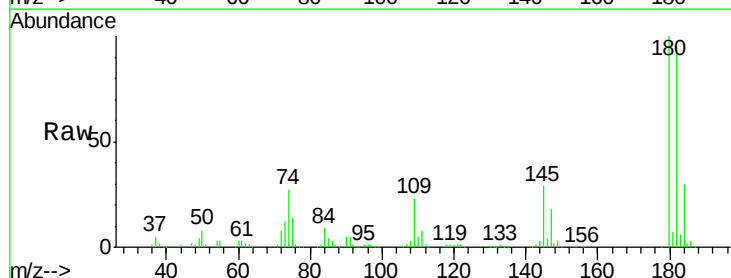
#67  
 1,3,5-Trichlorobenzene  
 Concen: 44.98 ug/L  
 RT: 12.89 min Scan# 3826  
 Delta R.T. -0.00 min  
 Lab File: VU023724.D  
 Acq: 07 May 2018 19:55

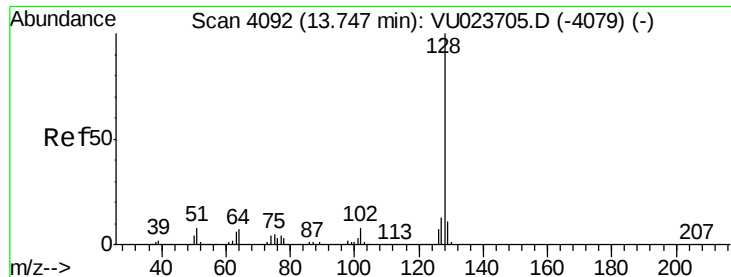
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 180   | Resp: | 261821 |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 95.3  | 76.5  | 114.7  |
| 184      | 30.6  | 24.1  | 36.1   |
| 145      | 27.5  | 22.2  | 33.4   |



#68  
 1,2,4-trichlorobenzene  
 Concen: 48.30 ug/L  
 RT: 13.51 min Scan# 4017  
 Delta R.T. -0.00 min  
 Lab File: VU023724.D  
 Acq: 07 May 2018 19:55

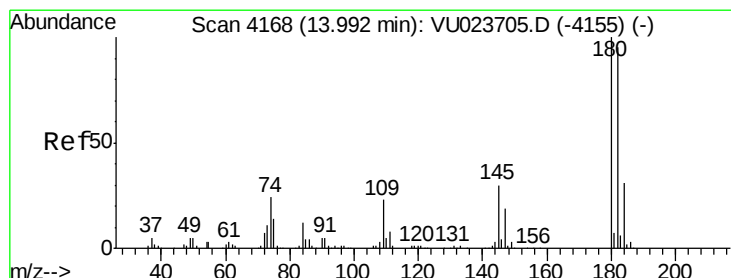
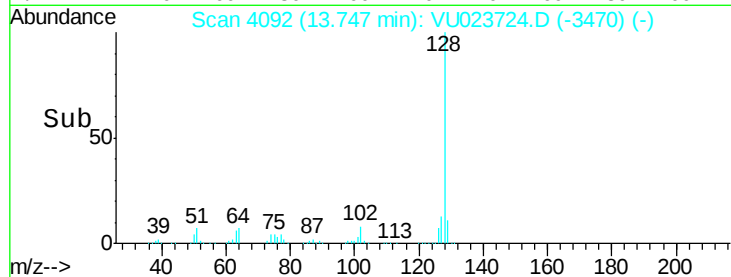
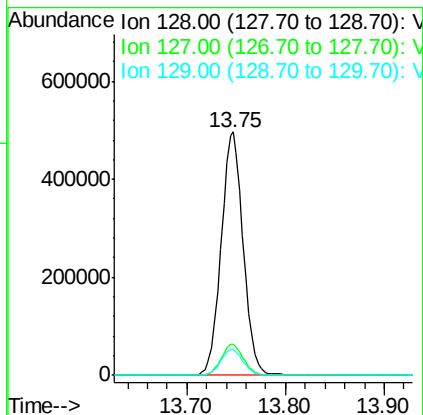
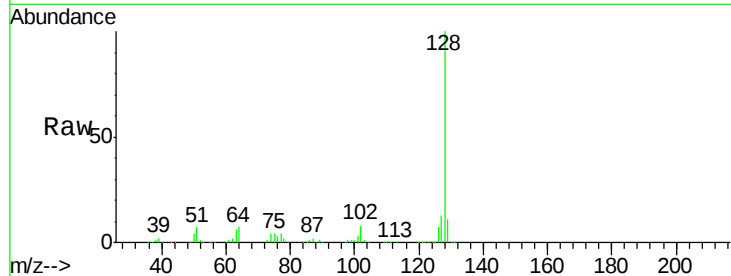
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 180   | Resp: | 238804 |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 95.7  | 77.1  | 115.7  |
| 145      | 28.3  | 23.4  | 35.0   |





#69  
Naphthalene  
Concen: 60.07 ug/L  
RT: 13.75 min Scan# 4092  
Delta R.T. -0.00 min  
Lab File: VU023724.D  
Acq: 07 May 2018 19:55

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 128   | Resp: | 779247 |
| Ion      | Ratio | Lower | Upper  |
| 128      | 100   |       |        |
| 127      | 13.0  | 10.3  | 15.5   |
| 129      | 10.8  | 8.6   | 13.0   |



#70  
1,2,3-Trichlorobenzene  
Concen: 48.95 ug/L  
RT: 13.99 min Scan# 4168  
Delta R.T. -0.00 min  
Lab File: VU023724.D  
Acq: 07 May 2018 19:55

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 180   | Resp: | 246560 |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 95.8  | 76.2  | 114.4  |
| 145      | 30.3  | 24.3  | 36.5   |

