

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060722\  
 Data File : VL039204.D  
 Acq On : 7 Jun 2022 11:12  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 08 04:57:19 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL053122AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Jun 01 01:22:18 2022

QLast Update : Wed Jun 01 01:22:18 2022

Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.66  | 49   | 1148512  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.17  | 114  | 3243915  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.08 | 117  | 3988798  | 10.00 | ppbv  | -0.02    |

#### System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.40  | 95    | 2404824  | 7.29     | ppbv | -0.01  |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 72.90% |

#### Target Compounds

|                                |      |     |         |               | Ovalue |
|--------------------------------|------|-----|---------|---------------|--------|
| 2) Dichlorodifluoromethane     | 3.05 | 85  | 2016846 | 9.998 ppbv    | 98     |
| 3) Chlorodifluoromethane       | 2.99 | 51  | 1468358 | 10.048 ppbv   | 94     |
| 4) Chloromethane               | 3.14 | 50  | 711474  | 9.478 ppbv    | 100    |
| 5) Vinyl Chloride              | 3.26 | 62  | 727892  | 10.373 ppbv   | 99     |
| 6) Bromomethane                | 3.48 | 94  | 336341  | 9.743 ppbv    | 98     |
| 7) Chloroethane                | 3.56 | 64  | 248439  | 10.161 ppbv   | 95     |
| 8) Dichlorotetrafluoroethane   | 3.19 | 85  | 1748909 | 9.486 ppbv    | 93     |
| 9) Propene                     | 3.01 | 41  | 702551  | 11.026 ppbv   | 100    |
| 10) Heptane                    | 8.12 | 43  | 1751009 | 11.780 ppbv   | 99     |
| 11) Trichlorofluoromethane     | 3.95 | 101 | 1634155 | 8.949 ppbv    | 99     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.48 | 101 | 1183545 | 9.801 ppbv    | 98     |
| 13) Ethanol                    | 3.61 | 45  | 33473   | 9.632 ppbv #  | 100    |
| 14) Bromoethene                | 3.74 | 108 | 544501  | 10.030 ppbv   | 99     |
| 15) Acetone                    | 3.85 | 43  | 1248882 | 10.439 ppbv   | 100    |
| 16) 1,3-Butadiene              | 3.33 | 39  | 666444  | 10.362 ppbv   | 98     |
| 17) tert-Butyl alcohol         | 4.28 | 59  | 1145692 | 12.346 ppbv   | 98     |
| 18) 1,1-Dichloroethene         | 4.29 | 96  | 538188  | 9.935 ppbv    | 99     |
| 19) Isopropyl Alcohol          | 3.96 | 45  | 609056  | 10.854 ppbv   | 100    |
| 20) Methylene Chloride         | 4.34 | 84  | 432663  | 8.582 ppbv    | 94     |
| 21) Allyl Chloride             | 4.41 | 41  | 804607  | 9.970 ppbv    | 98     |
| 22) trans-1,2-Dichloroethene   | 4.88 | 96  | 548195  | 10.518 ppbv   | 98     |
| 23) Vinyl Acetate              | 5.07 | 43  | 739439  | 7.470 ppbv    | 98     |
| 24) 1,1-Dichloroethane         | 5.01 | 63  | 1073744 | 7.917 ppbv    | 98     |
| 25) Ethyl Acetate              | 5.67 | 43  | 3278909 | 12.160 ppbv   | 99     |
| 26) Hexane                     | 5.69 | 57  | 1301790 | 10.986 ppbv   | 91     |
| 27) Carbon Disulfide           | 4.55 | 76  | 1274643 | 10.379 ppbv   | 98     |
| 28) Methyl tert-Butyl Ether    | 5.03 | 73  | 1026690 | 7.848 ppbv    | 99     |
| 29) Chloroform                 | 5.75 | 83  | 2024424 | 10.153 ppbv   | 99     |
| 30) Cyclohexane                | 7.13 | 84  | 1167378 | 11.727 ppbv   | 93     |
| 31) cis-1,2-Dichloroethene     | 5.55 | 61  | 1276012 | 10.561 ppbv   | 93     |
| 32) 1,1,1-Trichloroethane      | 6.51 | 97  | 2029112 | 10.399 ppbv   | 98     |
| 34) 2-Butanone                 | 5.24 | 43  | 1724441 | 9.785 ppbv    | 97     |
| 35) Carbon Tetrachloride       | 7.02 | 117 | 2059303 | 8.698 ppbv    | 97     |
| 36) Benzene                    | 6.89 | 78  | 2800970 | 10.636 ppbv   | 95     |
| 37) 1,2-Dichloroethane         | 6.30 | 62  | 1413572 | 8.156 ppbv #  | 94     |
| 38) Trichloroethene            | 7.83 | 130 | 1139307 | 9.418 ppbv    | 98     |
| 39) 1,2-Dichloropropane        | 7.61 | 63  | 1059116 | 10.111 ppbv   | 92     |
| 40) 1,4-Dioxane                | 7.82 | 88  | 390355  | 11.319 ppbv # | 1      |
| 41) Tetrahydrofuran            | 6.04 | 42  | 1118009 | 10.548 ppbv   | 99     |
| 42) Bromodichloromethane       | 7.79 | 83  | 2215187 | 9.209 ppbv    | 99     |
| 43) Methyl Methacrylate        | 8.01 | 69  | 1201625 | 11.714 ppbv   | 93     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060722\  
 Data File : VL039204.D  
 Acq On : 7 Jun 2022 11:12  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 08 04:57:19 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL053122AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Jun 01 01:22:18 2022

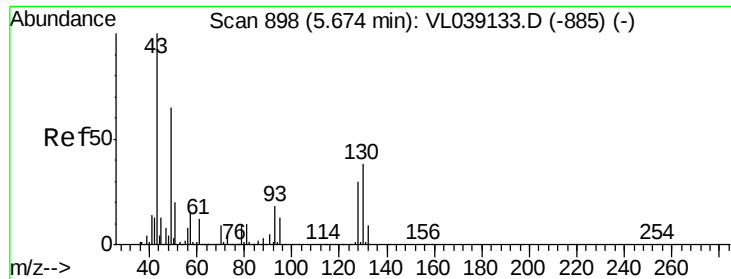
QLast Update : Wed Jun 01 01:22:18 2022

Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.86  | 57   | 4582721  | 9.947  | ppbv   | 98       |
| 45) t-1,3-Dichloropropene     | 9.28  | 75   | 909822   | 8.516  | ppbv   | 100      |
| 46) cis-1,3-Dichloropropene   | 8.70  | 75   | 1283114  | 9.091  | ppbv   | 96       |
| 47) 1,1,2-Trichloroethane     | 9.47  | 97   | 1177012  | 10.770 | ppbv   | 98       |
| 48) Dibromochloromethane      | 10.30 | 129  | 1941838  | 9.951  | ppbv   | 99       |
| 49) Bromoform                 | 13.03 | 173  | 1661048  | 10.214 | ppbv   | 98       |
| 50) 4-Methyl-2-Pentanone      | 8.73  | 43   | 2747783  | 10.416 | ppbv   | 97       |
| 51) 2-Hexanone                | 10.12 | 43   | 2145387  | 10.452 | ppbv # | 98       |
| 52) Tetrachloroethene         | 11.21 | 164  | 1056323  | 10.273 | ppbv   | 97       |
| 53) Toluene                   | 9.80  | 91   | 3282770  | 10.825 | ppbv   | 98       |
| 54) 1,2-Dibromoethane         | 10.60 | 107  | 1657807  | 11.289 | ppbv   | 93       |
| 56) 1,1,1,2-Tetrachloroethane | 12.12 | 131  | 1474748  | 7.814  | ppbv   | 99       |
| 57) Chlorobenzene             | 12.14 | 112  | 2418222  | 8.057  | ppbv   | 95       |
| 58) Ethyl Benzene             | 12.70 | 91   | 4474662  | 8.144  | ppbv   | 100      |
| 59) m/p-Xylene                | 12.99 | 91   | 3779812  | 7.812  | ppbv # | 28       |
| 60) o-Xylene                  | 13.68 | 91   | 3524642  | 7.752  | ppbv   | 98       |
| 61) Styrene                   | 13.52 | 104  | 2132599  | 8.760  | ppbv   | 93       |
| 62) Isopropylbenzene          | 14.66 | 105  | 5493784  | 8.130  | ppbv   | 98       |
| 63) 1,1,2,2-Tetrachloroethane | 13.67 | 83   | 2362640  | 9.258  | ppbv   | 100      |
| 64) n-propylbenzene           | 15.55 | 120  | 1468575  | 8.841  | ppbv   | 88       |
| 65) tert-Butylbenzene         | 16.73 | 119  | 4821326  | 7.803  | ppbv   | 95       |
| 66) Benzyl Chloride           | 16.98 | 91   | 356728   | 4.440  | ppbv   | 99       |
| 67) sec-Butylbenzene          | 17.28 | 105  | 6839954  | 8.113  | ppbv   | 98       |
| 69) p-Isopropyltoluene        | 17.64 | 119  | 5767272  | 8.108  | ppbv   | 97       |
| 70) n-Butylbenzene            | 18.54 | 91   | 5930128  | 8.122  | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 15.44 | 91   | 4178703  | 8.109  | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 15.83 | 105  | 4435366  | 8.324  | ppbv   | 98       |
| 73) 1,3,5-Trimethylbenzene    | 15.99 | 105  | 3900628  | 8.116  | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 16.75 | 105  | 4157352  | 7.751  | ppbv   | 94       |
| 75) 1,3-Dichlorobenzene       | 16.98 | 146  | 2474149  | 8.150  | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 17.12 | 146  | 2430585  | 8.025  | ppbv   | 97       |
| 77) 1,2-Dichlorobenzene       | 17.80 | 146  | 2472091  | 8.080  | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 23.36 | 225  | 1909079  | 6.823  | ppbv   | 99       |
| 79) Naphthalene               | 22.18 | 128  | 3655273  | 8.853  | ppbv   | 99       |
| 80) Naphthalene, 2-methyl-    | 24.96 | 142  | 940196   | 6.129  | ppbv   | 93       |
| 81) 1,2,4-Trichlorobenzene    | 21.91 | 180  | 2053047  | 7.849  | ppbv # | 100      |

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

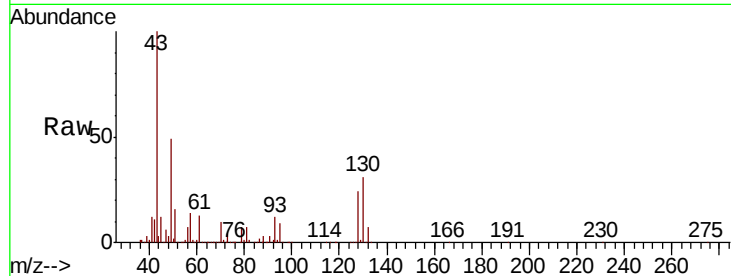
Delta R.T. -0.01 min

Lab File: VL039204.D

Acq: 7 Jun 2022 11:12

Tot Ion: 49 Resp: 1148512

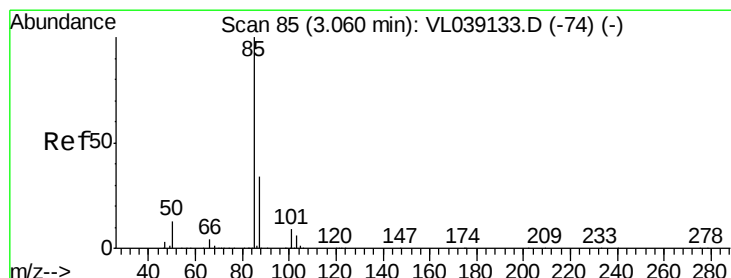
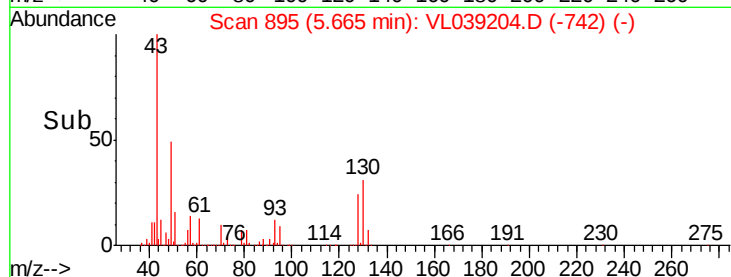
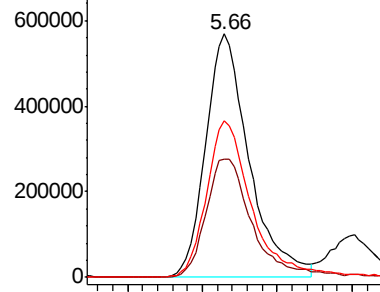
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 49  | 100   |       |       |
| 128 | 53.6  | 24.7  | 74.1  |
| 130 | 67.9  | 31.4  | 94.0  |



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 9.998 ppbv

RT: 3.05 min Scan# 83

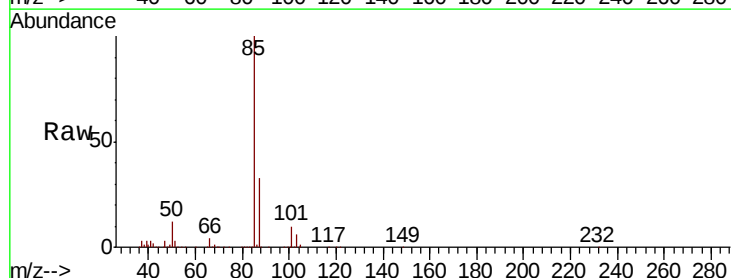
Delta R.T. -0.01 min

Lab File: VL039204.D

Acq: 7 Jun 2022 11:12

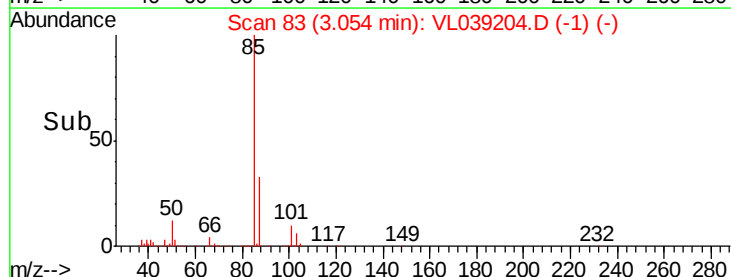
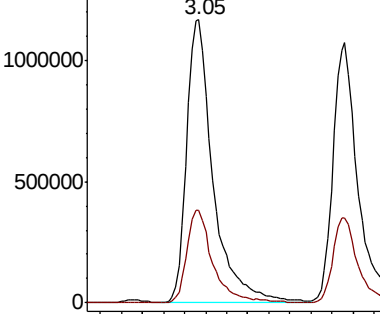
Tgt Ion: 85 Resp: 2016846

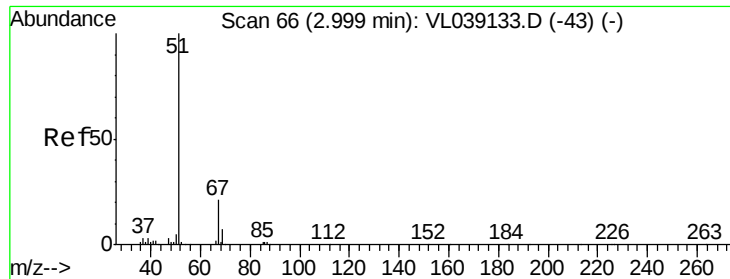
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 85  | 100   |       |       |
| 87  | 32.7  | 26.9  | 40.3  |



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

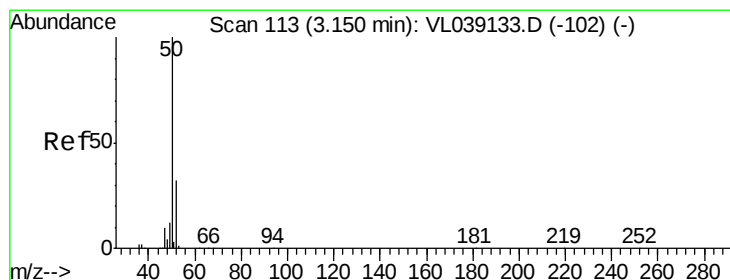
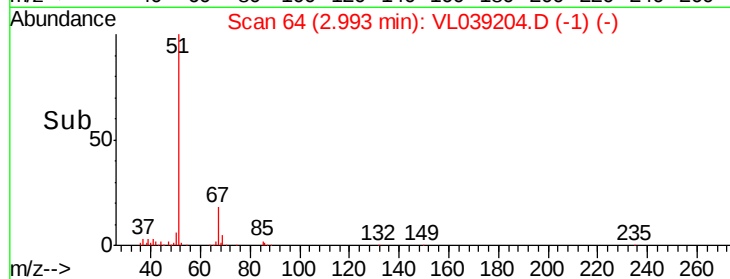
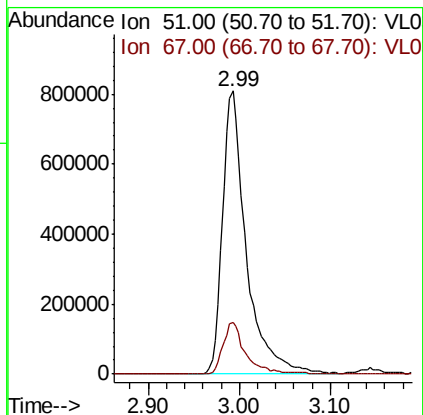
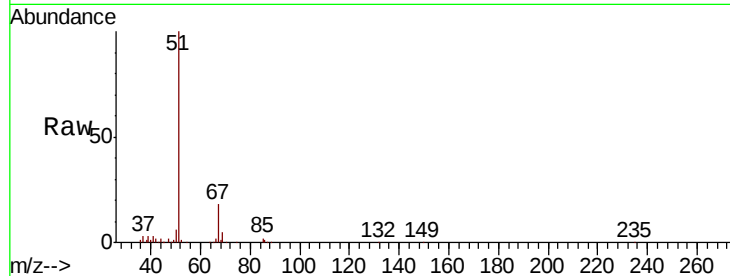




#3  
 Chlorodifluoromethane  
 Concen: 10.048 ppbv  
 RT: 2.99 min Scan# 64  
 Delta R.T. -0.01 min  
 Lab File: VL039204.D  
 Acq: 7 Jun 2022 11:12

Tot Ion: 51 Resp: 1468358  

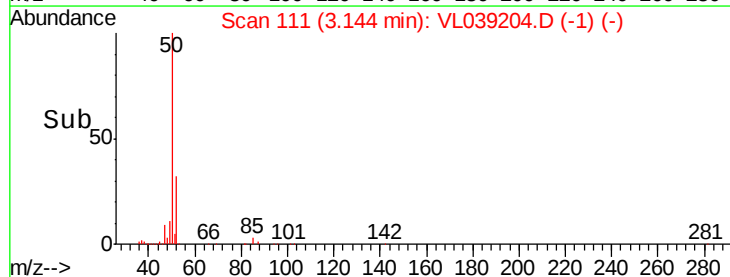
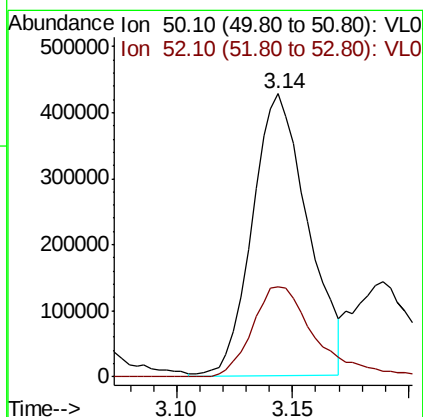
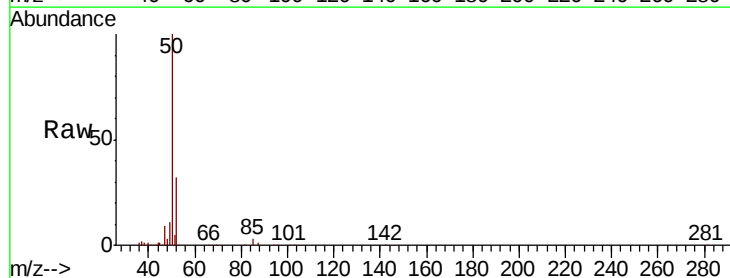
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 51  | 100   |       |       |
| 67  | 17.6  | 16.2  | 24.4  |

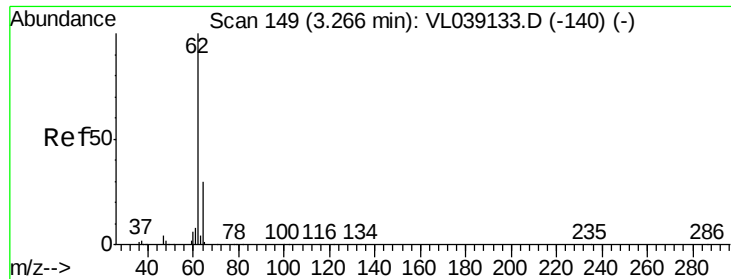


#4  
 Chloromethane  
 Concen: 9.478 ppbv  
 RT: 3.14 min Scan# 111  
 Delta R.T. -0.01 min  
 Lab File: VL039204.D  
 Acq: 7 Jun 2022 11:12

Tgt Ion: 50 Resp: 711474  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 50  | 100   |       |       |
| 52  | 32.2  | 25.9  | 38.9  |





#5

Vinyl Chloride

Concen: 10.373 ppbv

RT: 3.26 min Scan# 147

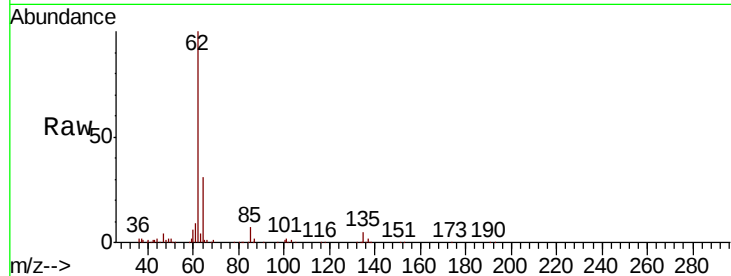
Delta R.T. -0.01 min

Lab File: VL039204.D

Acq: 7 Jun 2022 11:12

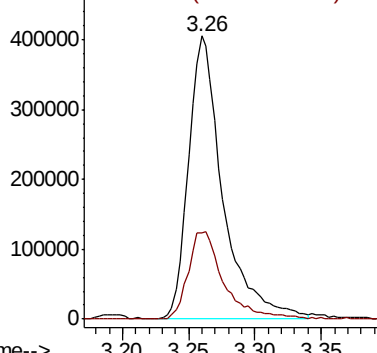
Tot Ion: 62 Resp: 727892

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 62  | 100   |       |       |
| 64  | 30.5  | 24.2  | 36.2  |

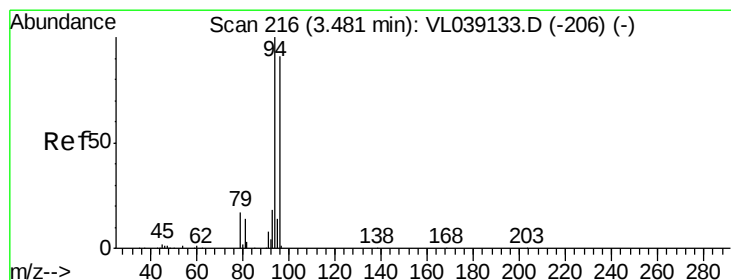
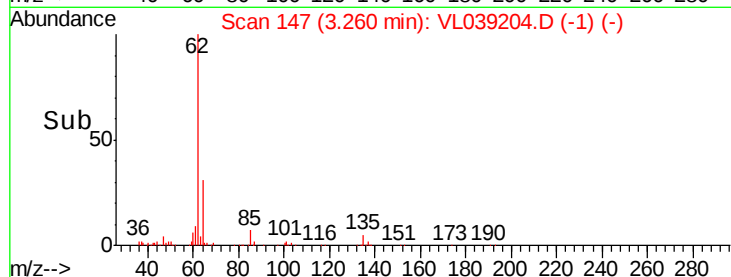


Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



Time-->



#6

Bromomethane

Concen: 9.743 ppbv

RT: 3.48 min Scan# 214

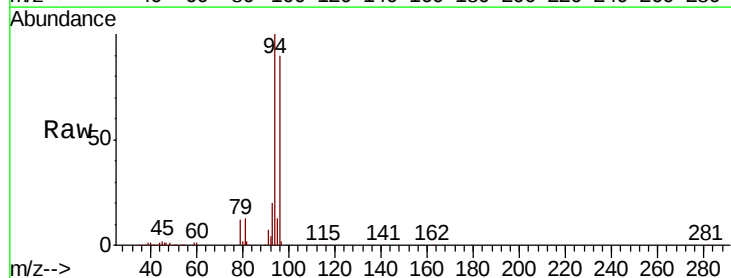
Delta R.T. -0.01 min

Lab File: VL039204.D

Acq: 7 Jun 2022 11:12

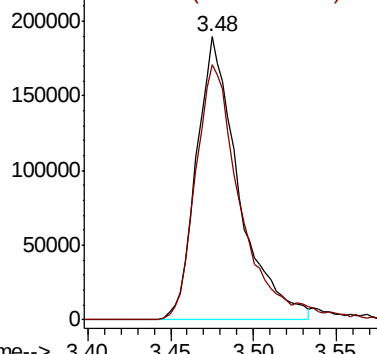
Tgt Ion: 94 Resp: 336341

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 94  | 100   |       |       |
| 96  | 89.7  | 73.0  | 109.4 |

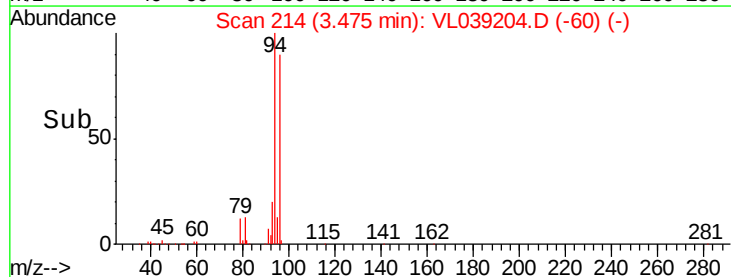


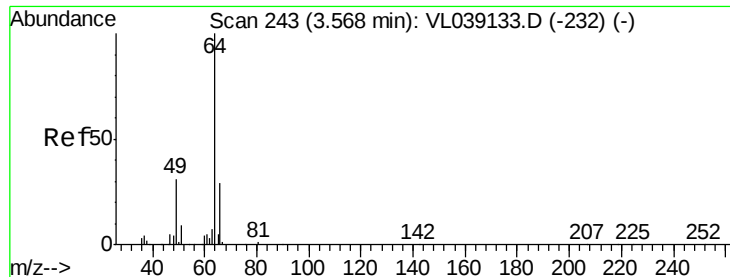
Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0



Time-->





#7

Chloroethane

Concen: 10.161 ppbv

RT: 3.56 min Scan# 240

Delta R.T. -0.01 min

Lab File: VL039204.D

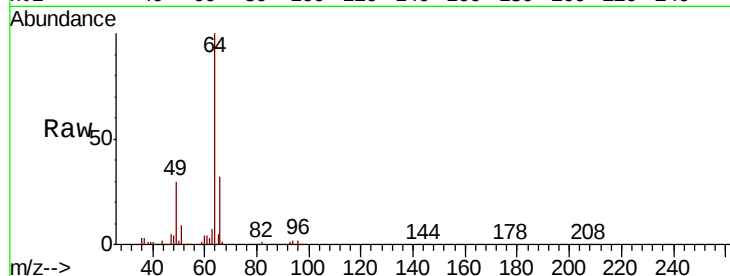
Acq: 7 Jun 2022 11:12

Tot Ion: 64 Resp: 248439

Ion Ratio Lower Upper

64 100

66 32.0 23.6 35.4



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

150000

100000

50000

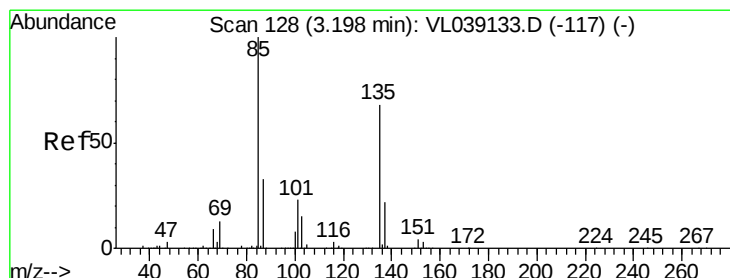
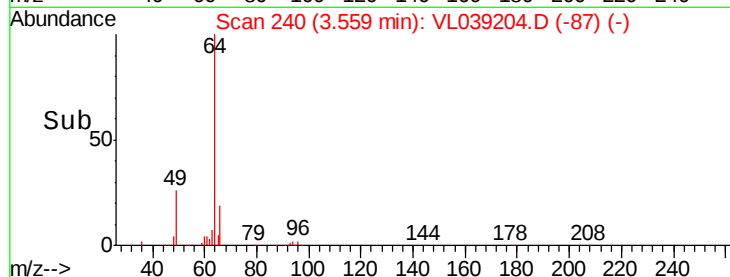
0

3.56

3.55

3.60

Time-->



#8

Dichlorotetrafluoroethane

Concen: 9.486 ppbv

RT: 3.19 min Scan# 126

Delta R.T. -0.01 min

Lab File: VL039204.D

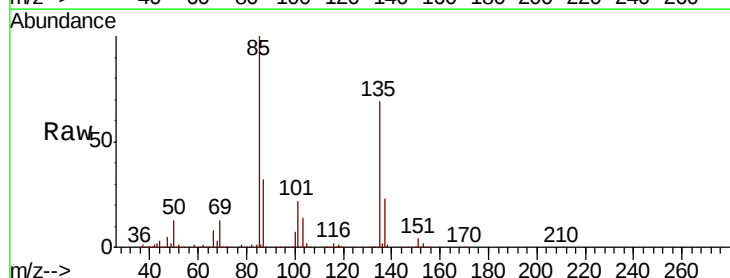
Acq: 7 Jun 2022 11:12

Tgt Ion: 85 Resp: 1748909

Ion Ratio Lower Upper

85 100

135 74.4 55.0 82.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

1200000

1000000

800000

600000

400000

200000

0

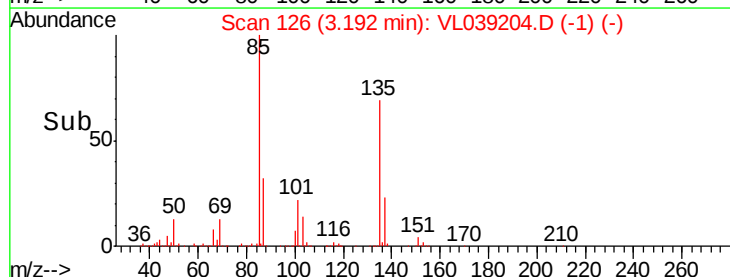
3.19

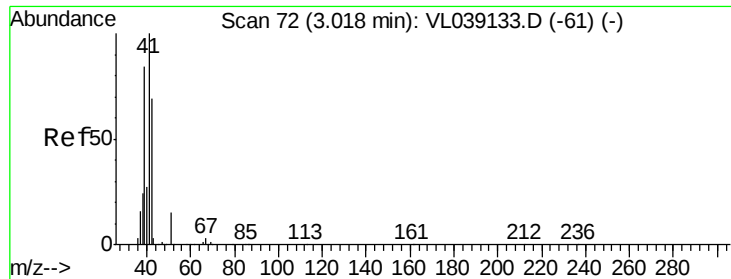
3.15

3.25

3.30

Time-->





#9

Propene

Concen: 11.026 ppbv

RT: 3.01 min Scan# 70

Delta R.T. -0.01 min

Lab File: VL039204.D

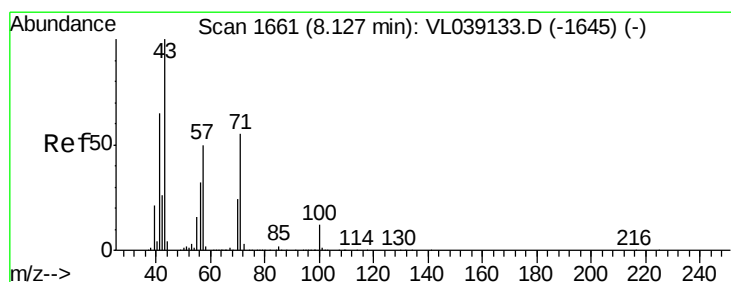
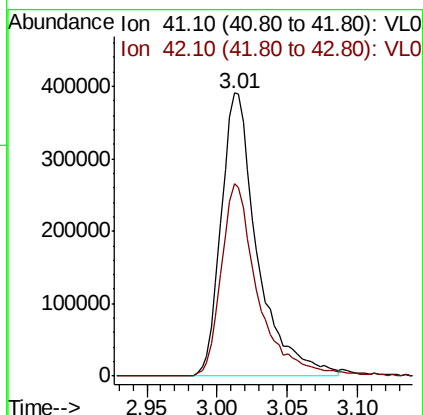
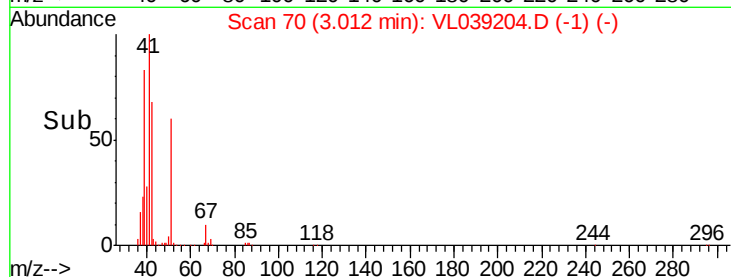
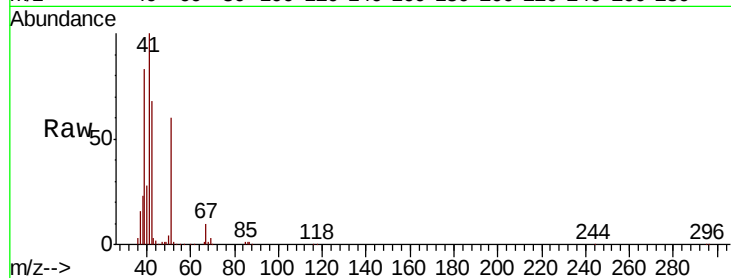
Acq: 7 Jun 2022 11:12

Tot Ion: 41 Resp: 702551

Ion Ratio Lower Upper

41 100

42 69.1 55.4 83.2



#10

Heptane

Concen: 11.780 ppbv

RT: 8.12 min Scan# 1658

Delta R.T. -0.01 min

Lab File: VL039204.D

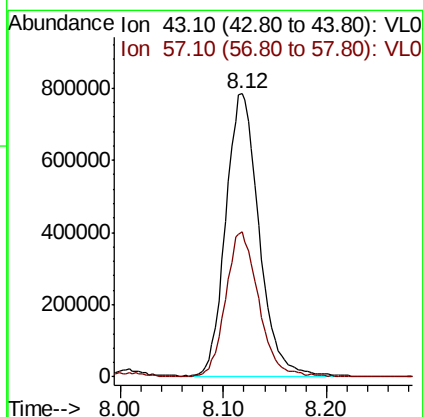
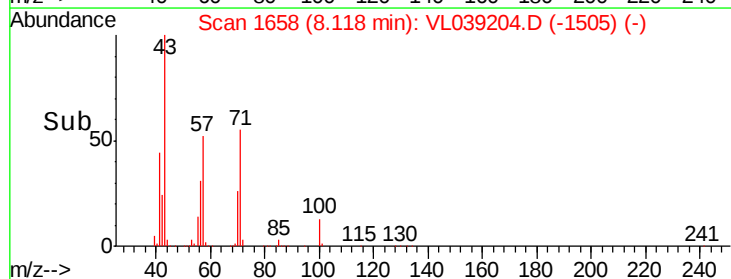
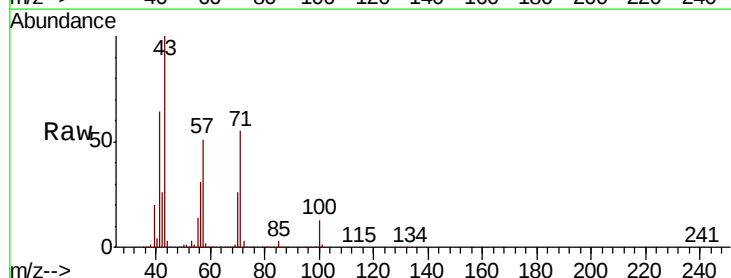
Acq: 7 Jun 2022 11:12

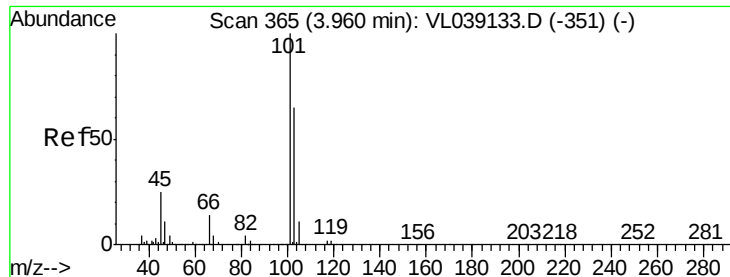
Tgt Ion: 43 Resp: 1751009

Ion Ratio Lower Upper

43 100

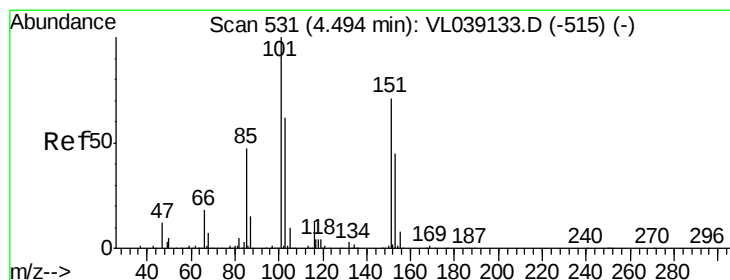
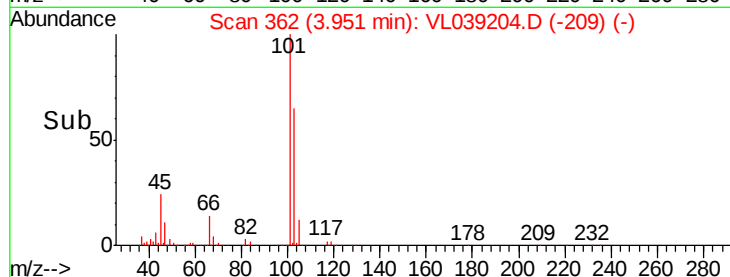
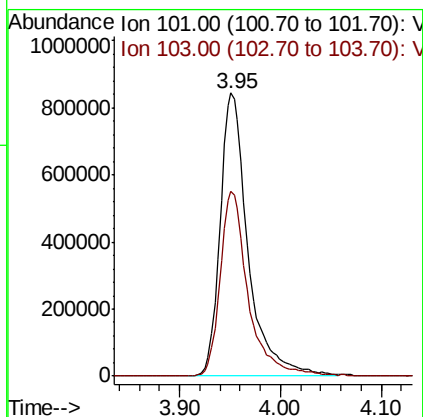
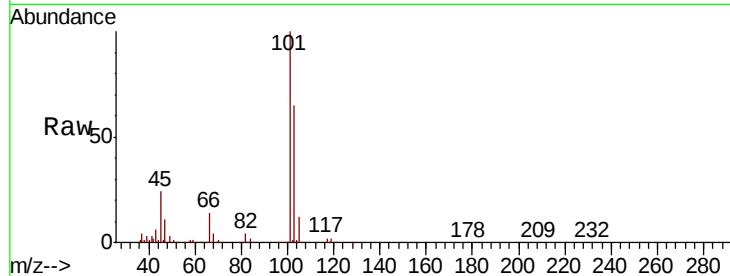
57 51.1 41.4 62.2





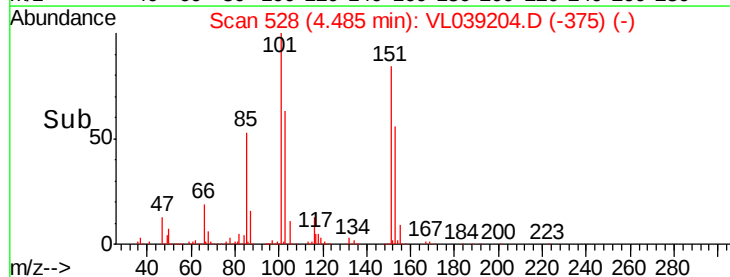
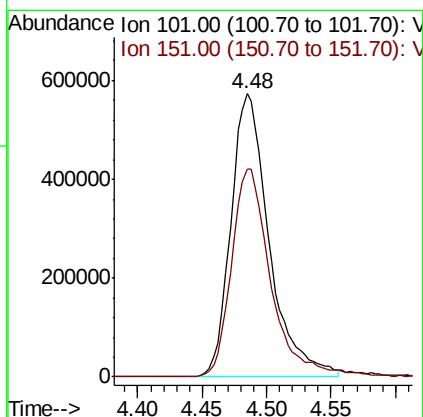
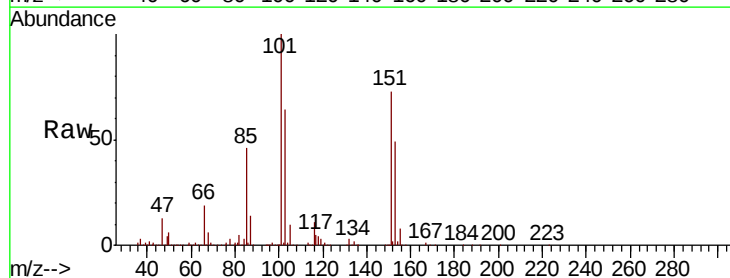
#11  
 Trichlorofluoromethane  
 Concen: 8.949 ppbv  
 RT: 3.95 min Scan# 362  
 Delta R.T. -0.01 min  
 Lab File: VL039204.D  
 Acq: 7 Jun 2022 11:12

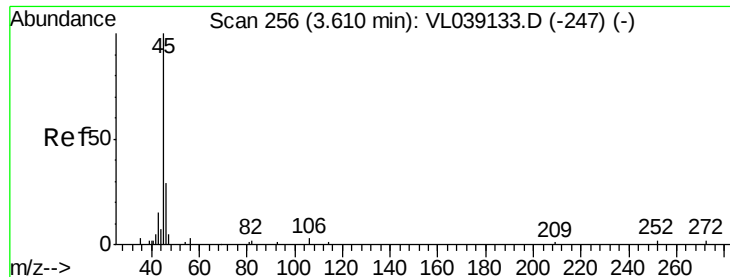
Tot Ion:101 Resp: 1634155  
 Ion Ratio Lower Upper  
 101 100  
 103 65.3 51.7 77.5



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 9.801 ppbv  
 RT: 4.48 min Scan# 528  
 Delta R.T. -0.01 min  
 Lab File: VL039204.D  
 Acq: 7 Jun 2022 11:12

Tgt Ion:101 Resp: 1183545  
 Ion Ratio Lower Upper  
 101 100  
 151 76.1 59.4 89.0





#13

Ethanol

Concen: 9.632 ppbv

RT: 3.61 min Scan# 255

Delta R.T. -0.00 min

Lab File: VL039204.D

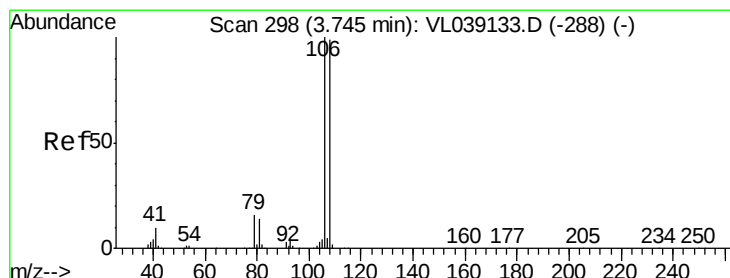
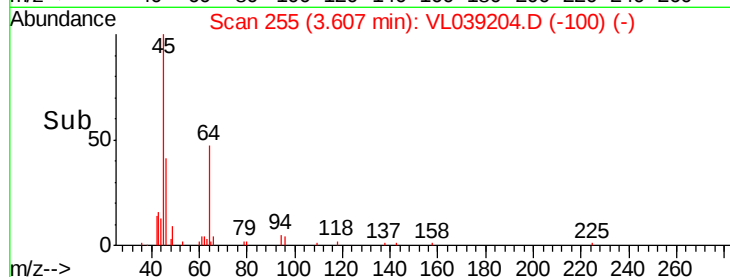
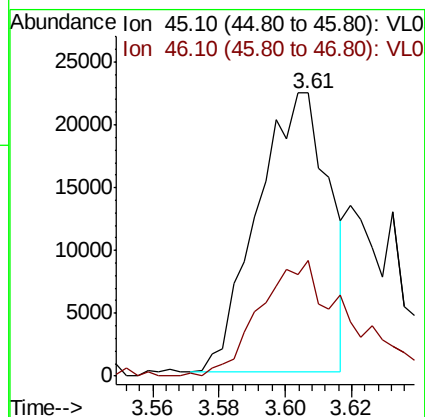
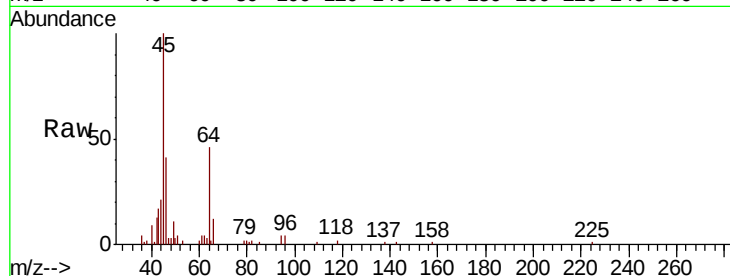
Acq: 7 Jun 2022 11:12

Tot Ion: 45 Resp: 33473

Ion Ratio Lower Upper

45 100

46 61.6 0.0 0.0#



#14

Bromoethene

Concen: 10.030 ppbv

RT: 3.74 min Scan# 297

Delta R.T. -0.00 min

Lab File: VL039204.D

Acq: 7 Jun 2022 11:12

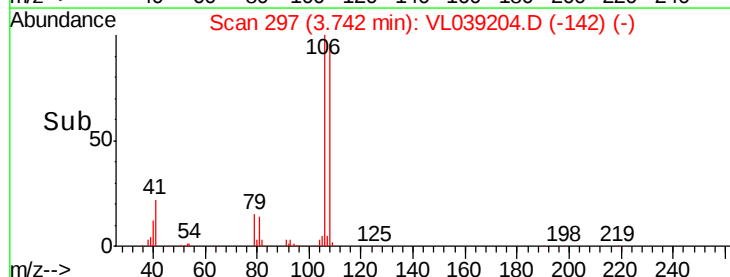
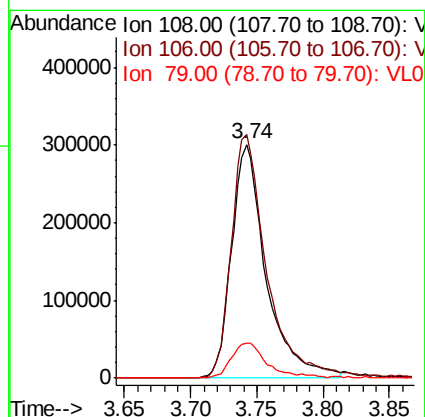
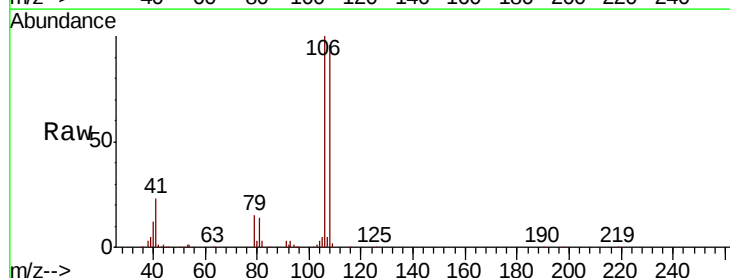
Tgt Ion: 108 Resp: 544501

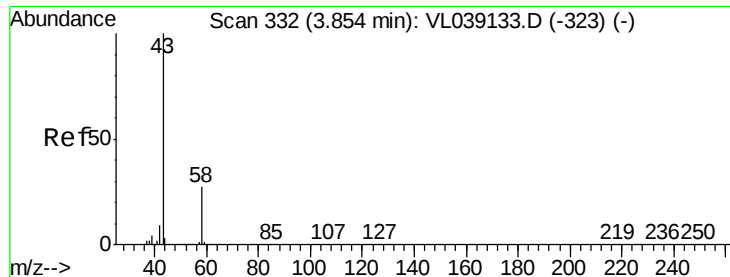
Ion Ratio Lower Upper

108 100

106 108.9 88.4 132.6

79 16.5 13.4 20.2





#15

Acetone

Concen: 10.439 ppbv

RT: 3.85 min Scan# 330

Delta R.T. -0.01 min

Lab File: VL039204.D

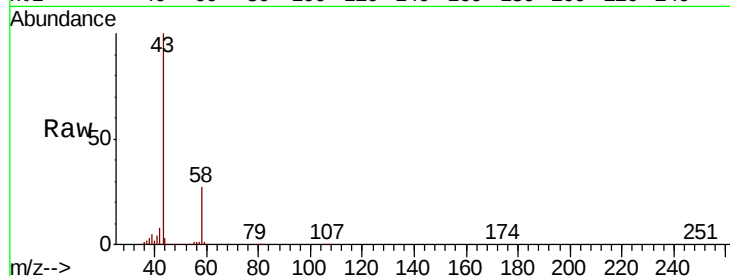
Acq: 7 Jun 2022 11:12

Tot Ion: 43 Resp: 1248882

Ion Ratio Lower Upper

43 100

58 28.3 22.5 33.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.85

600000

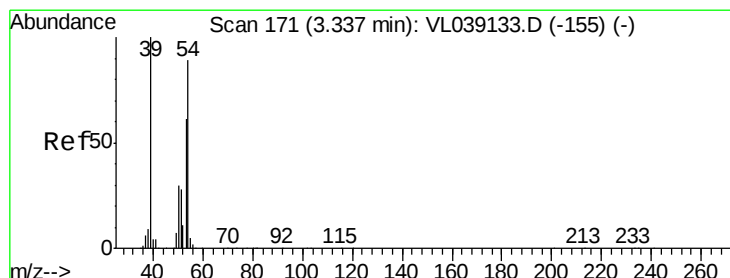
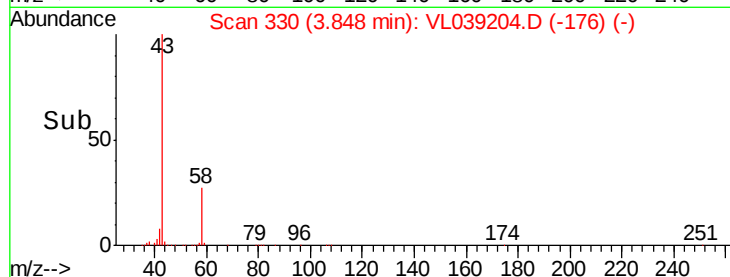
400000

200000

0

Time-->

3.80 3.85 3.90 3.95



#16

1,3-Butadiene

Concen: 10.362 ppbv

RT: 3.33 min Scan# 169

Delta R.T. -0.01 min

Lab File: VL039204.D

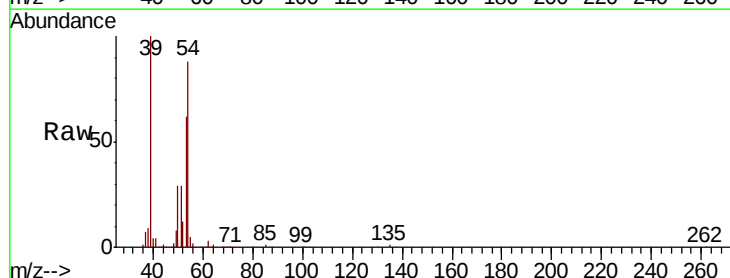
Acq: 7 Jun 2022 11:12

Tgt Ion: 39 Resp: 666444

Ion Ratio Lower Upper

39 100

54 83.8 65.8 98.6



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

400000

300000

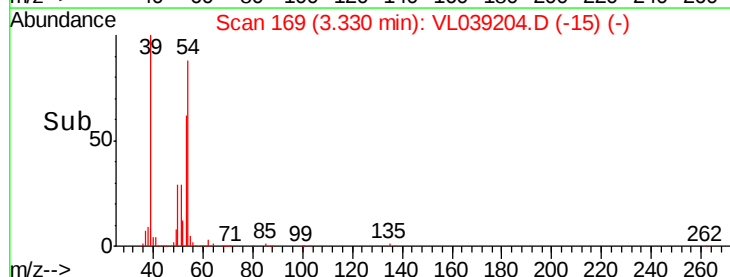
200000

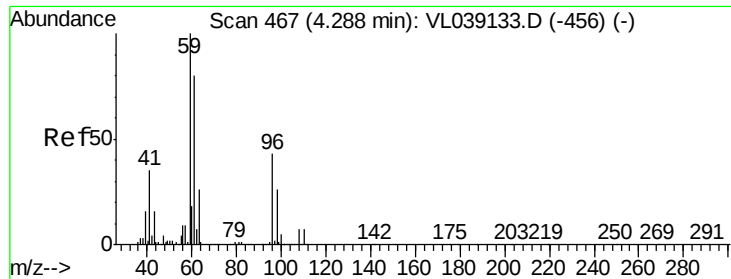
100000

0

Time-->

3.25 3.30 3.35 3.40





#17

tert-Butyl alcohol

Concen: 12.346 ppbv

RT: 4.28 min Scan# 464

Delta R.T. -0.01 min

Lab File: VL039204.D

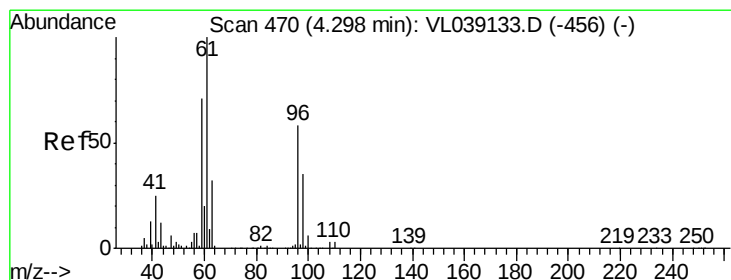
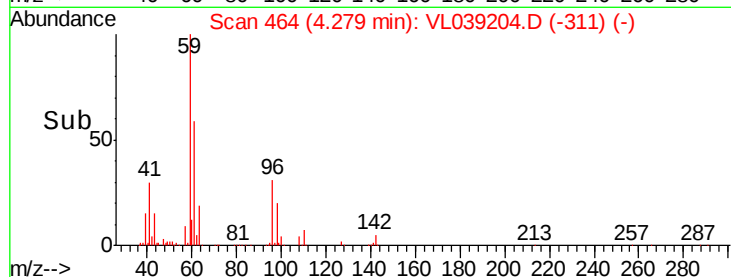
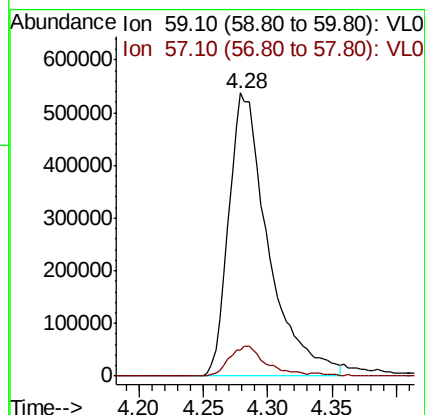
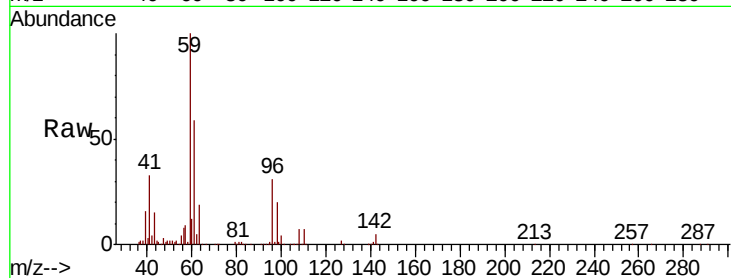
Acq: 7 Jun 2022 11:12

Tot Ion: 59 Resp: 1145692

Ion Ratio Lower Upper

59 100

57 10.5 9.1 13.7



#18

1,1-Dichloroethene

Concen: 9.935 ppbv

RT: 4.29 min Scan# 467

Delta R.T. -0.01 min

Lab File: VL039204.D

Acq: 7 Jun 2022 11:12

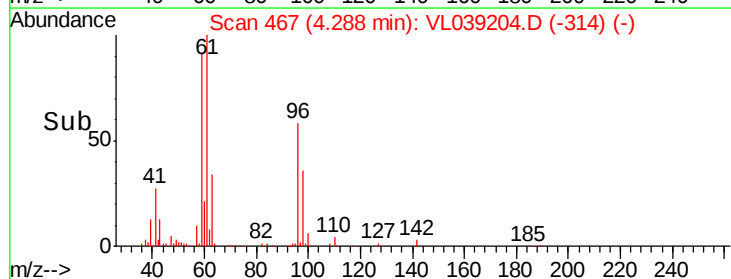
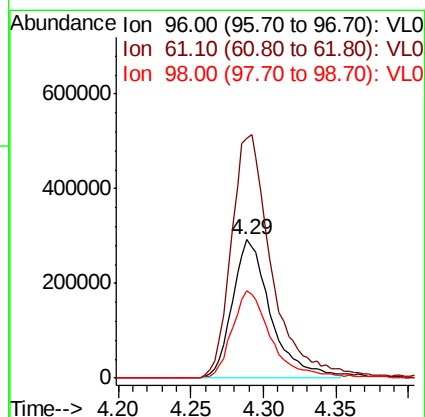
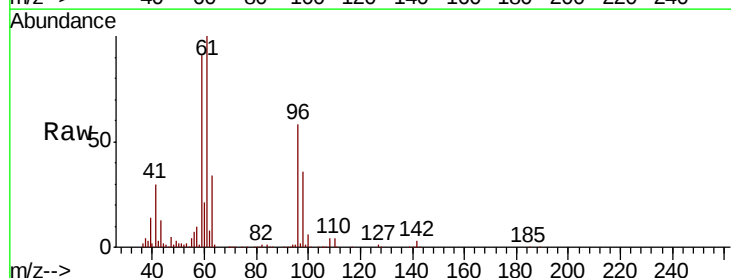
Tgt Ion: 96 Resp: 538188

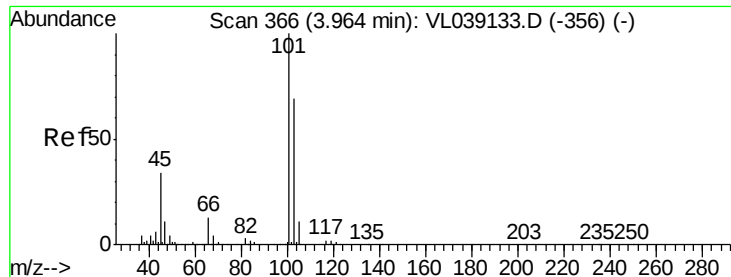
Ion Ratio Lower Upper

96 100

61 173.3 138.4 207.6

98 62.9 47.8 71.8





#19

Isopropyl Alcohol

Concen: 10.854 ppbv

RT: 3.96 min Scan# 365

Delta R.T. -0.00 min

Lab File: VL039204.D

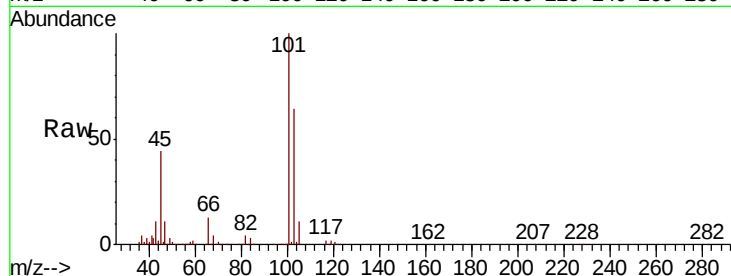
Acq: 7 Jun 2022 11:12

Tot Ion: 45 Resp: 609056

Ion Ratio Lower Upper

45 100

58 2.4 1.8 2.8



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.96

300000

250000

200000

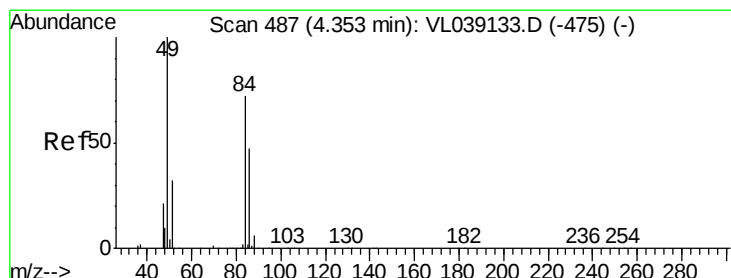
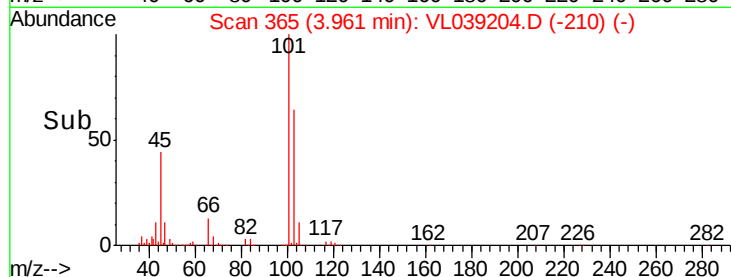
150000

100000

50000

0

Time-->



#20

Methylene Chloride

Concen: 8.582 ppbv

RT: 4.34 min Scan# 484

Delta R.T. -0.01 min

Lab File: VL039204.D

Acq: 7 Jun 2022 11:12

Tgt Ion: 84 Resp: 432663

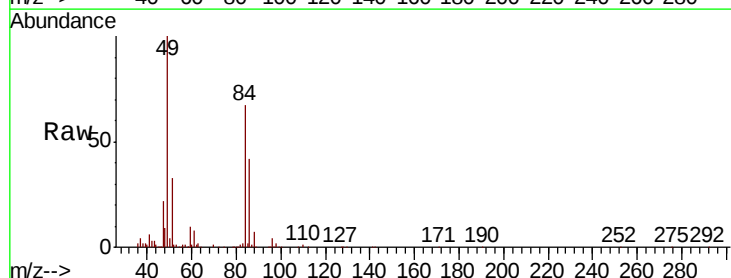
Ion Ratio Lower Upper

84 100

49 148.5 111.1 166.7

51 48.3 35.3 52.9

86 63.5 51.9 77.9



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

500000

400000

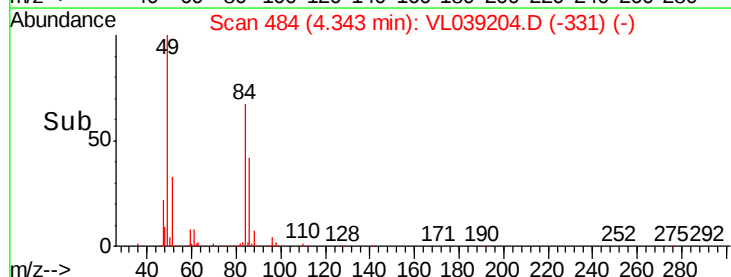
300000

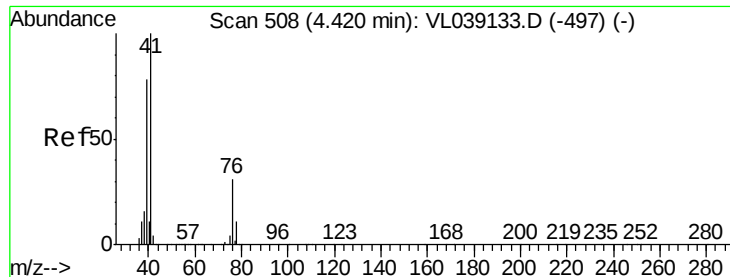
200000

100000

0

Time-->





#21

Allvl Chloride

Concen: 9.970 ppbv

RT: 4.41 min Scan# 506

Delta R.T. -0.01 min

Lab File: VL039204.D

Acq: 7 Jun 2022 11:12

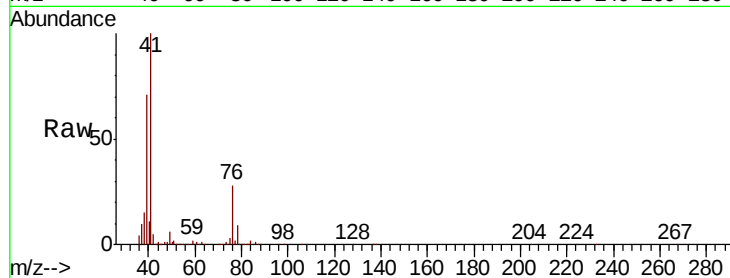
Tot Ion: 41 Resp: 804607

Ion Ratio Lower Upper

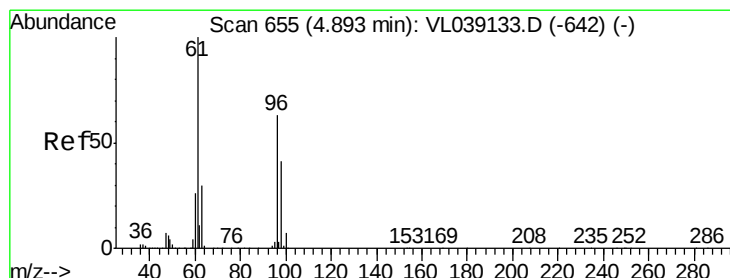
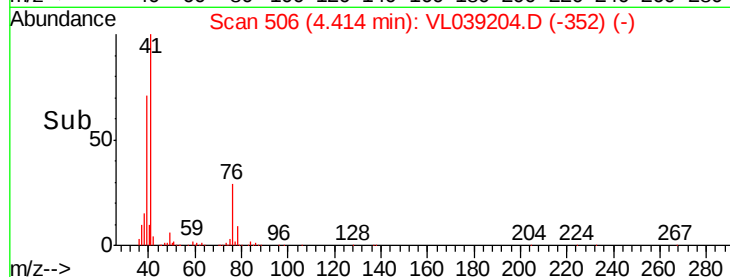
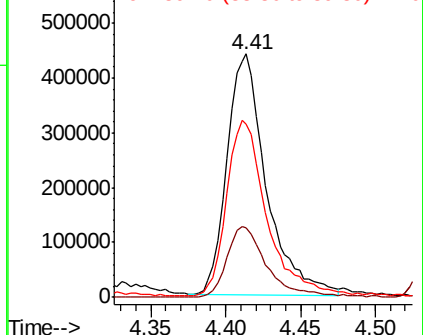
41 100

76 29.8 24.2 36.2

39 75.9 62.2 93.2



Abundance Ion 41.10 (40.80 to 41.80): VL0  
Ion 76.10 (75.80 to 76.80): VL0  
Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 10.518 ppbv

RT: 4.88 min Scan# 652

Delta R.T. -0.01 min

Lab File: VL039204.D

Acq: 7 Jun 2022 11:12

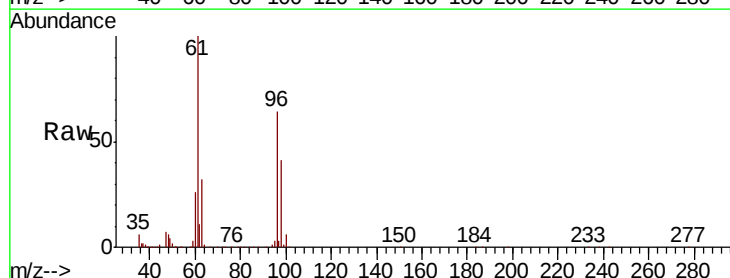
Tgt Ion: 96 Resp: 548195

Ion Ratio Lower Upper

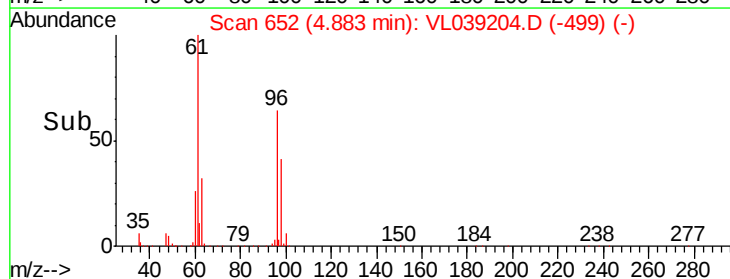
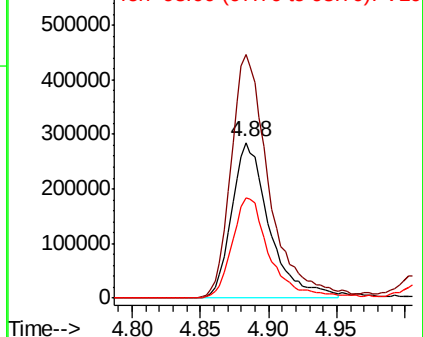
96 100

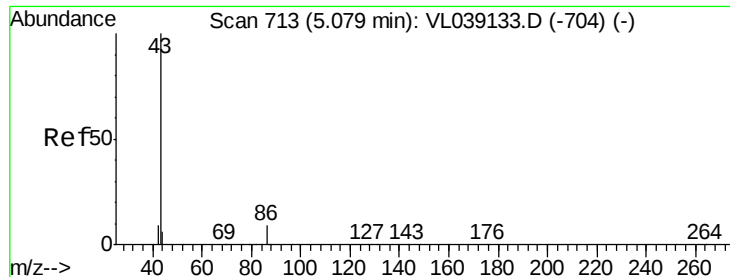
61 156.4 126.6 190.0

98 64.2 52.5 78.7



Abundance Ion 96.00 (95.70 to 96.70): VL0  
Ion 61.10 (60.80 to 61.80): VL0  
Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 7.470 ppbv

RT: 5.07 min Scan# 710

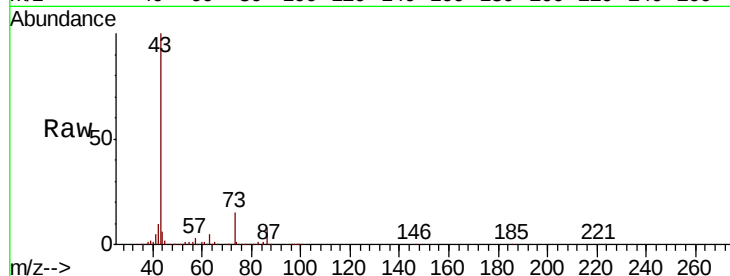
Delta R.T. -0.01 min

Lab File: VL039204.D

Acq: 7 Jun 2022 11:12

Tot Ion: 43 Resp: 739439

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 8.1   | 6.0   | 9.0   |
| 42  | 9.9   | 8.2   | 12.4  |
| 44  | 4.7   | 4.3   | 6.5   |

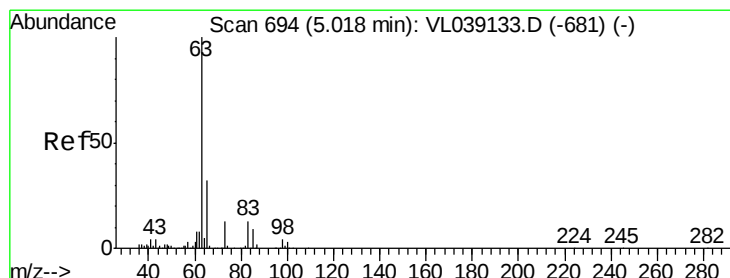
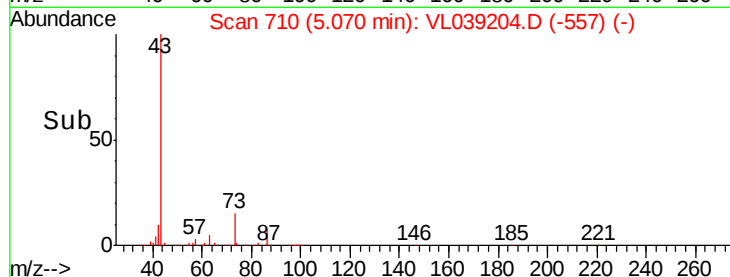
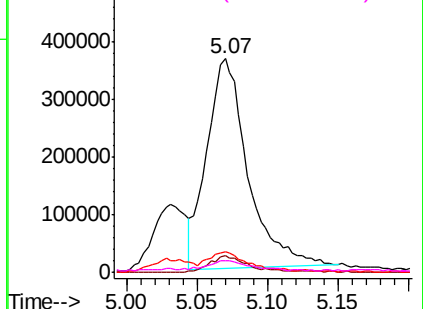


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 7.917 ppbv

RT: 5.01 min Scan# 692

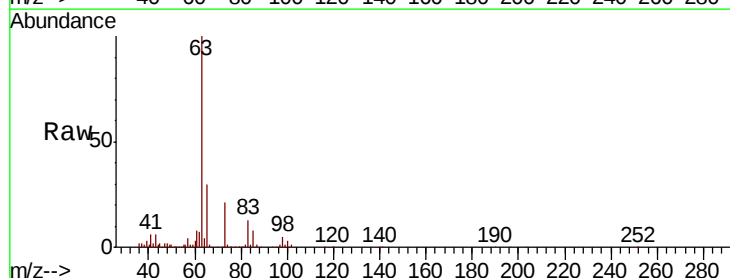
Delta R.T. -0.01 min

Lab File: VL039204.D

Acq: 7 Jun 2022 11:12

Tgt Ion: 63 Resp: 1073744

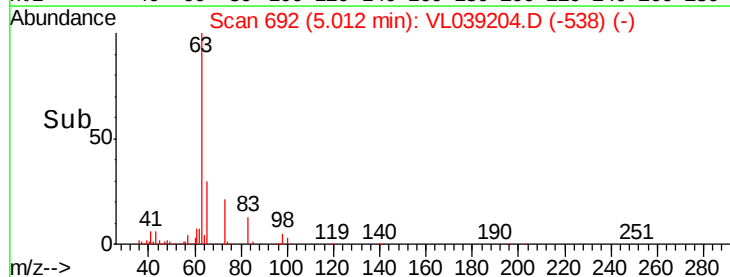
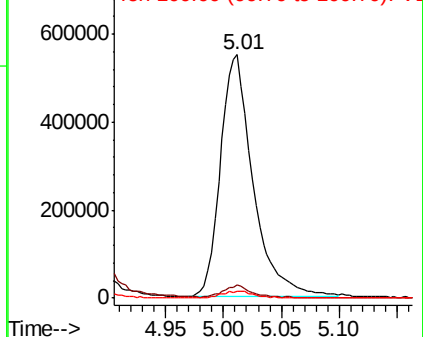
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 98  | 5.1   | 2.1   | 6.2   |
| 100 | 2.7   | 1.5   | 4.5   |

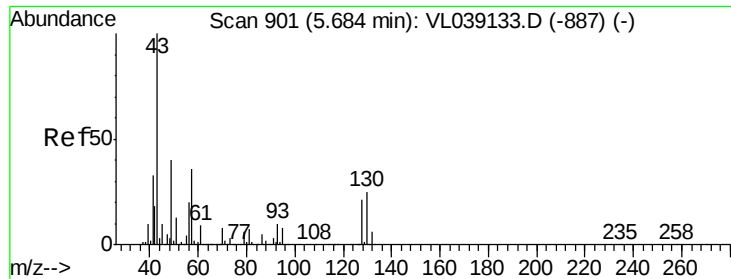


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

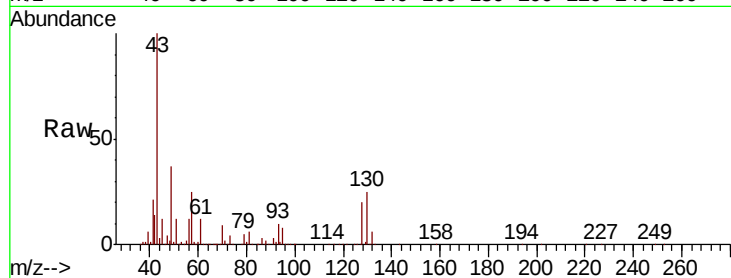




#25  
Ethyl Acetate  
Concen: 12.160 ppbv  
RT: 5.67 min Scan# 897  
Delta R.T. -0.01 min  
Lab File: VL039204.D  
Acq: 7 Jun 2022 11:12

Tot Ion: 43 Resp: 3278909

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 45  | 10.6  | 8.2   | 12.2  |
| 61  | 10.6  | 8.4   | 12.6  |
| 70  | 7.5   | 5.6   | 8.4   |



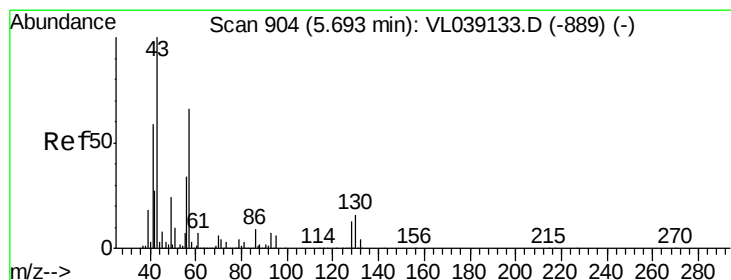
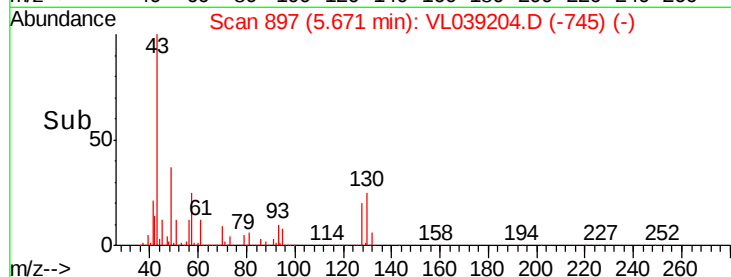
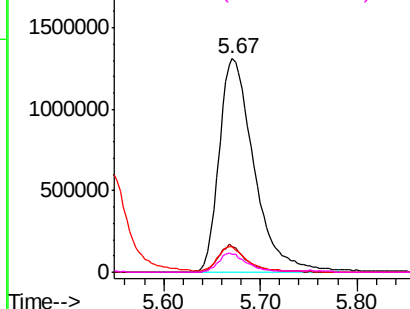
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26  
Hexane  
Concen: 10.986 ppbv  
RT: 5.69 min Scan# 902  
Delta R.T. -0.01 min  
Lab File: VL039204.D  
Acq: 7 Jun 2022 11:12

Tgt Ion: 57 Resp: 1301790

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 57  | 100   |       |       |
| 41  | 86.7  | 72.4  | 108.6 |
| 43  | 255.0 | 187.0 | 280.6 |
| 56  | 52.5  | 41.8  | 62.6  |

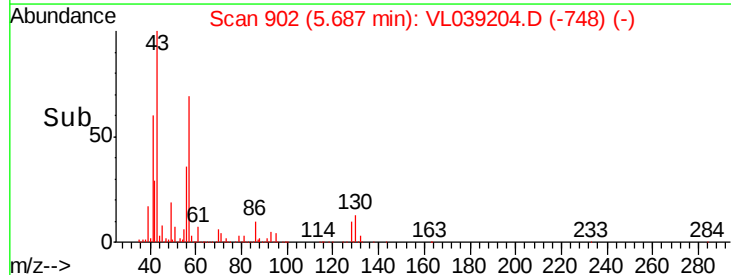
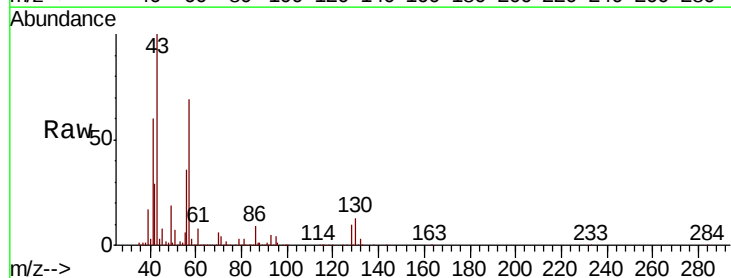
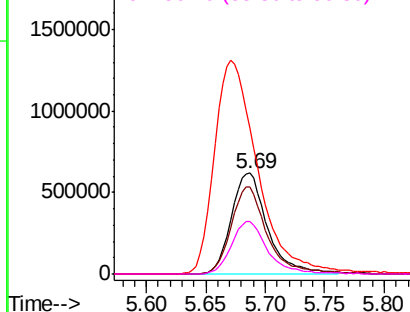
Abundance

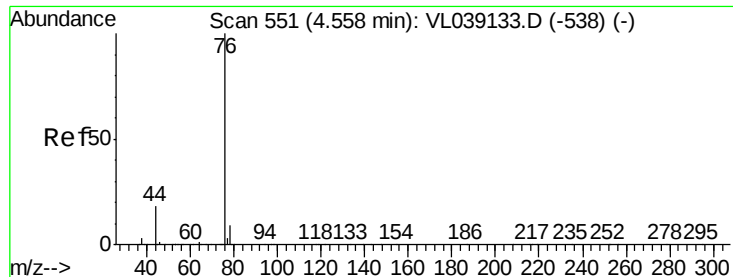
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 10.379 ppbv

RT: 4.55 min Scan# 549

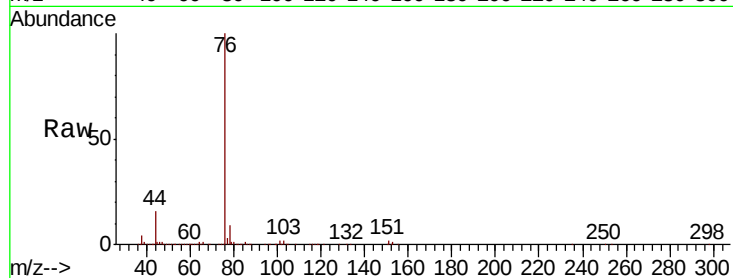
Delta R.T. -0.01 min

Lab File: VL039204.D

Acq: 7 Jun 2022 11:12

Tot Ion: 76 Resp: 1274643

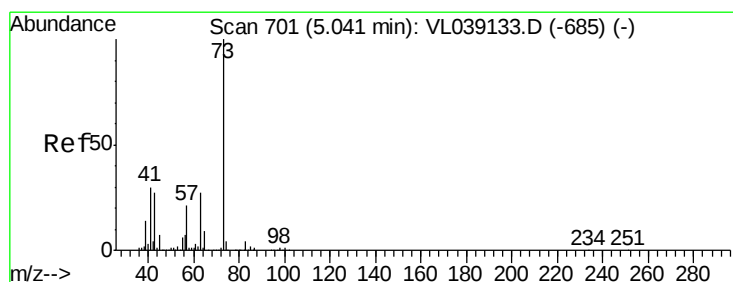
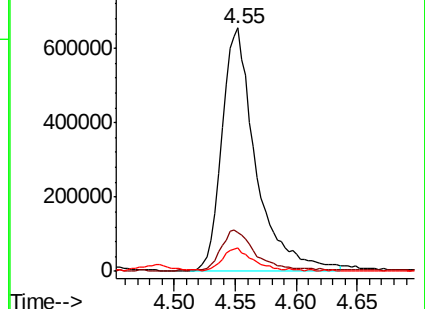
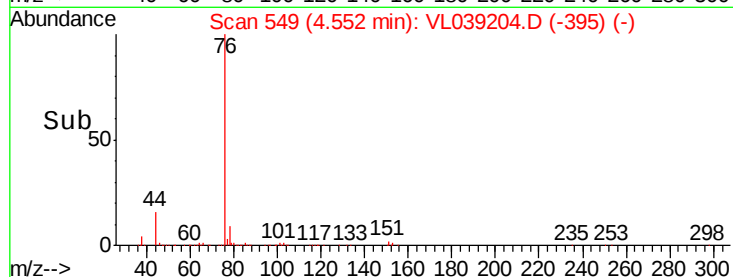
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 76  | 100   |       |       |
| 44  | 17.0  | 14.4  | 21.6  |
| 78  | 9.6   | 7.7   | 11.5  |



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 7.848 ppbv

RT: 5.03 min Scan# 699

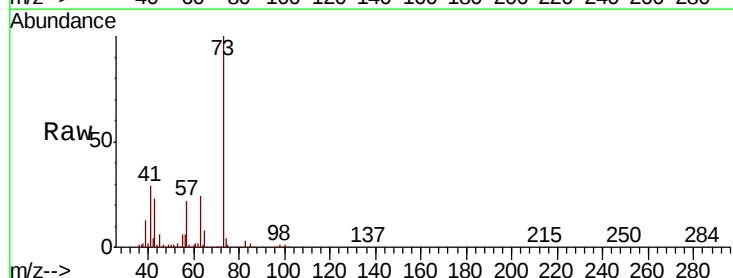
Delta R.T. -0.01 min

Lab File: VL039204.D

Acq: 7 Jun 2022 11:12

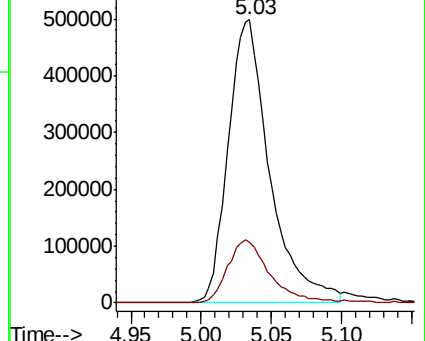
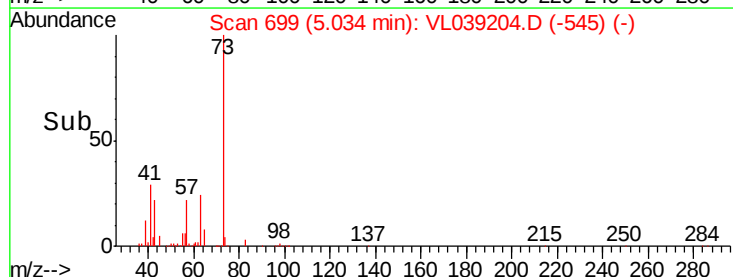
Tgt Ion: 73 Resp: 1026690

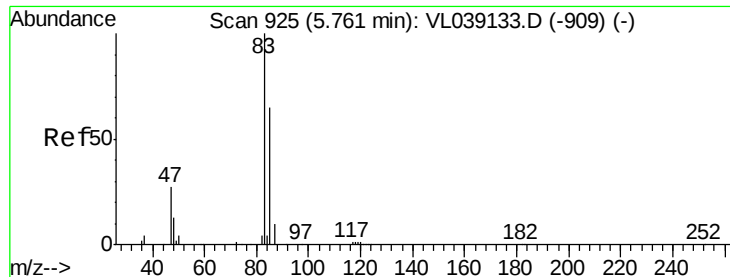
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 73  | 100   |       |       |
| 57  | 23.5  | 18.6  | 27.8  |



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 10.153 ppbv

RT: 5.75 min Scan# 921

Delta R.T. -0.01 min

Lab File: VL039204.D

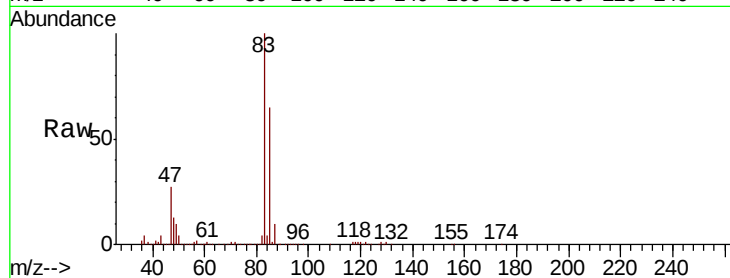
Acq: 7 Jun 2022 11:12

Tot Ion: 83 Resp: 2024424

Ion Ratio Lower Upper

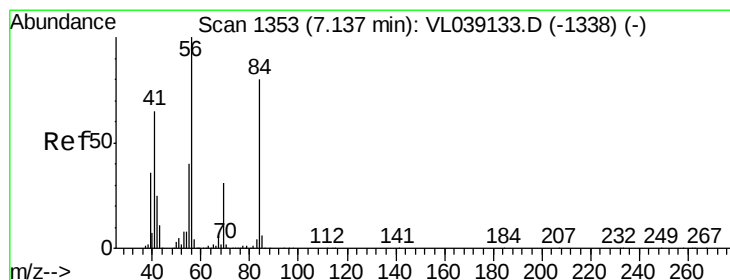
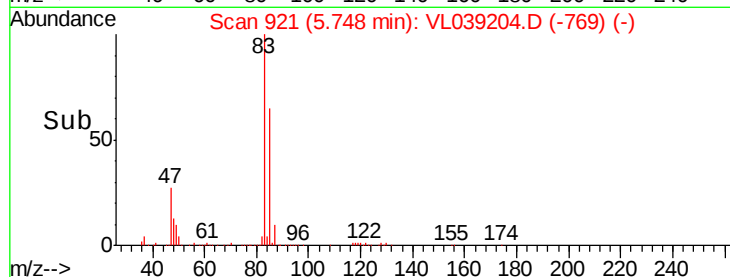
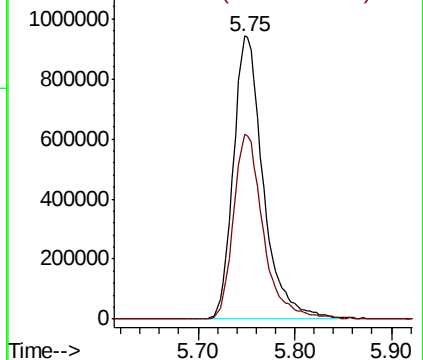
83 100

85 64.8 52.4 78.6



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#30

Cyclohexane

Concen: 11.727 ppbv

RT: 7.13 min Scan# 1350

Delta R.T. -0.01 min

Lab File: VL039204.D

Acq: 7 Jun 2022 11:12

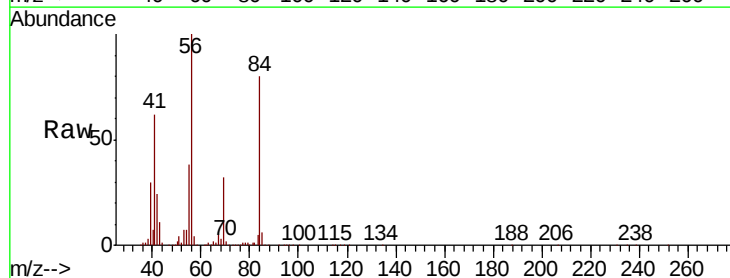
Tgt Ion: 84 Resp: 1167378

Ion Ratio Lower Upper

84 100

56 131.6 110.6 165.8

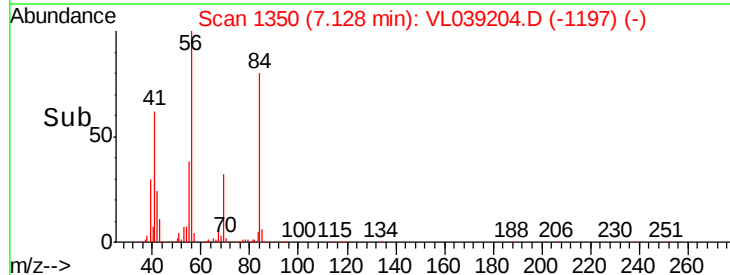
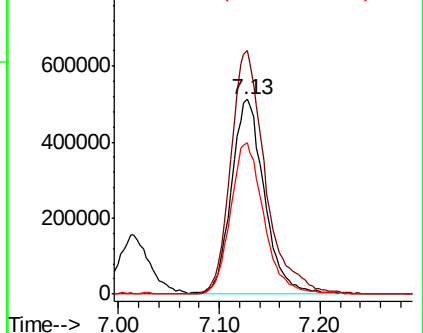
41 78.3 68.9 103.3

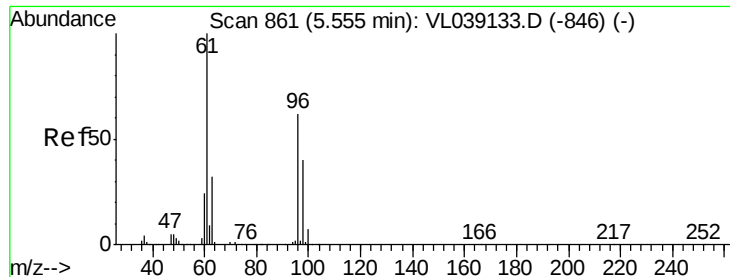


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0



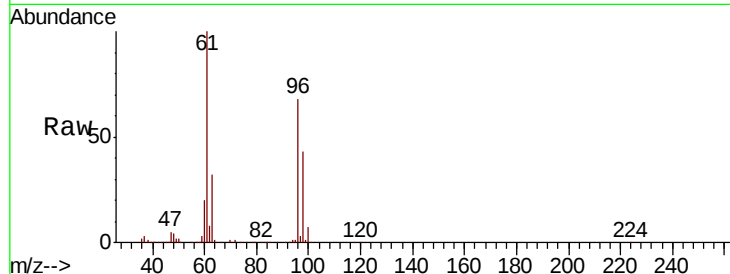


#31

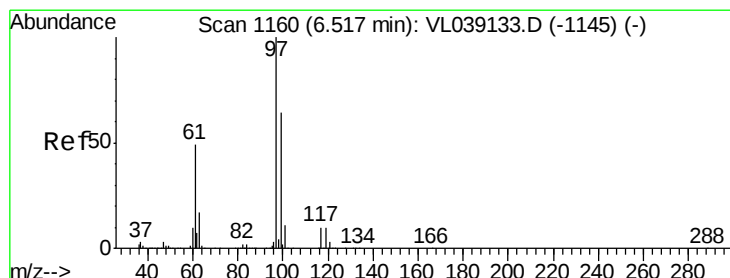
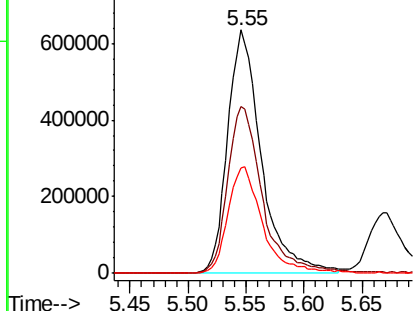
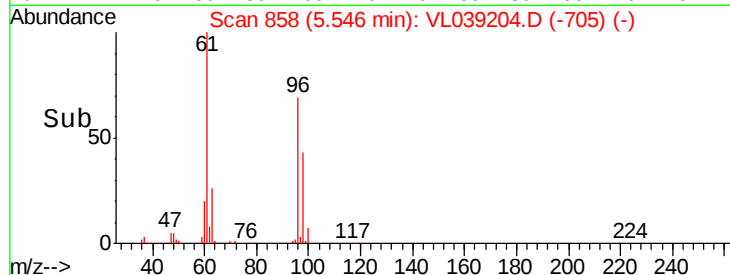
cis-1,2-Dichloroethene  
 Concen: 10.561 ppbv  
 RT: 5.55 min Scan# 858  
 Delta R.T. -0.01 min  
 Lab File: VL039204.D  
 Acq: 7 Jun 2022 11:12

Tot Ion: 61 Resp: 1276012

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 61  | 100   |       |       |
| 96  | 68.3  | 49.9  | 74.9  |
| 98  | 43.1  | 32.0  | 48.0  |



Abundance Ion 61.10 (60.80 to 61.80): VL0  
 Ion 96.00 (95.70 to 96.70): VL0  
 Ion 98.00 (97.70 to 98.70): VL0

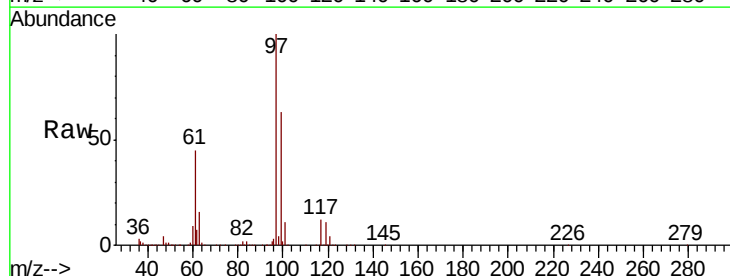


#32

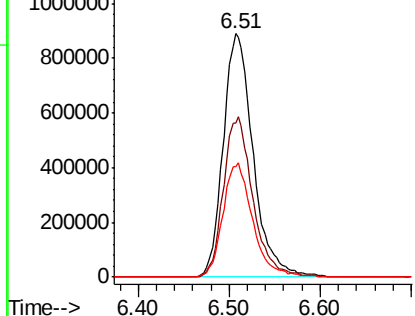
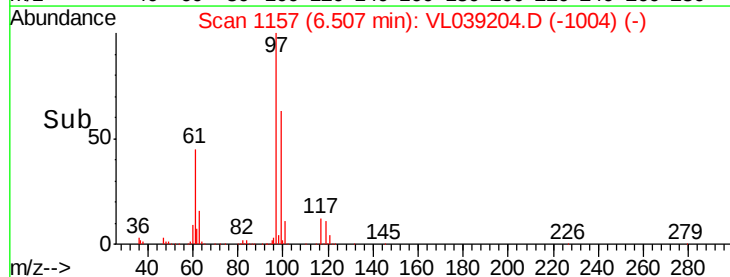
1,1,1-Trichloroethane  
 Concen: 10.399 ppbv  
 RT: 6.51 min Scan# 1157  
 Delta R.T. -0.01 min  
 Lab File: VL039204.D  
 Acq: 7 Jun 2022 11:12

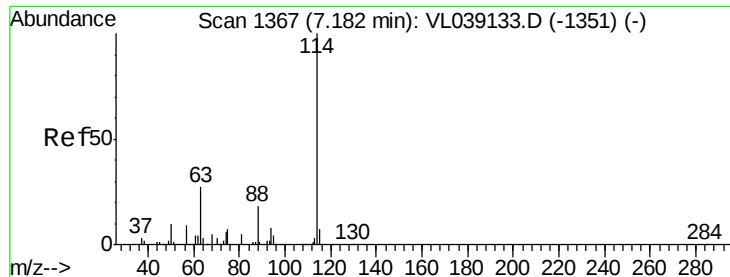
Tgt Ion: 97 Resp: 2029112

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 99  | 65.1  | 52.1  | 78.1  |
| 61  | 46.6  | 40.0  | 60.0  |



Abundance Ion 97.00 (96.70 to 97.70): VL0  
 Ion 99.00 (98.70 to 99.70): VL0  
 Ion 61.10 (60.80 to 61.80): VL0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 min Scan# 1364

Delta R.T. -0.01 min

Lab File: VL039204.D

Acq: 7 Jun 2022 11:12

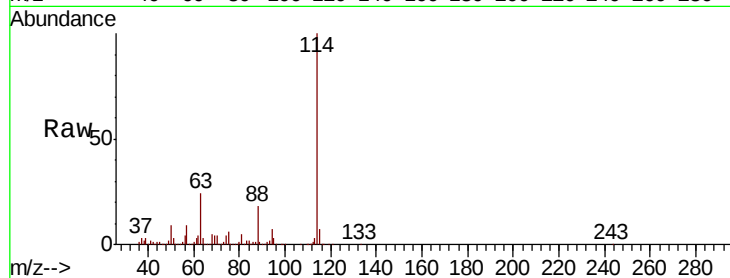
Tot Ion:114 Resp: 3243915

Ion Ratio Lower Upper

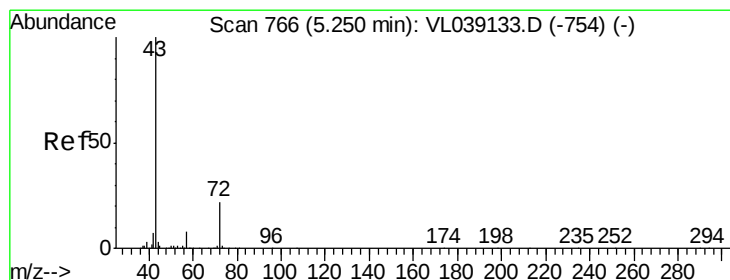
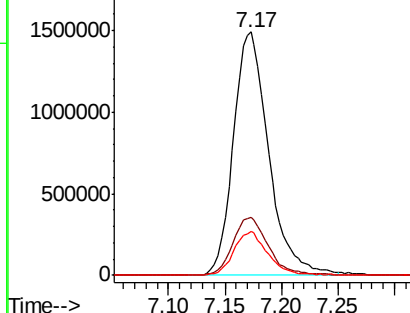
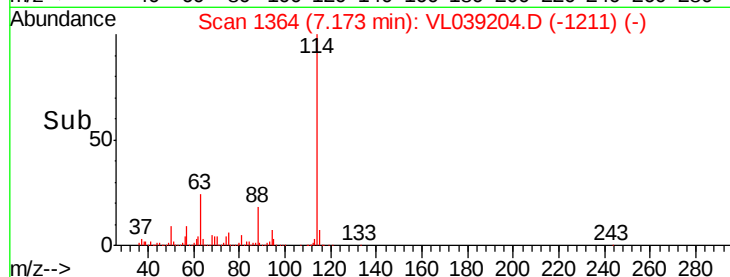
114 100

63 24.1 21.7 32.5

88 17.5 14.8 22.2



Abundance Ion 114.10 (113.80 to 114.80): VL0  
Ion 63.10 (62.80 to 63.80): VL0  
Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 9.785 ppbv

RT: 5.24 min Scan# 763

Delta R.T. -0.01 min

Lab File: VL039204.D

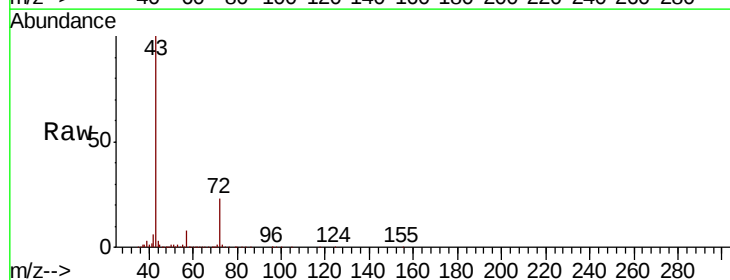
Acq: 7 Jun 2022 11:12

Tgt Ion: 43 Resp: 1724441

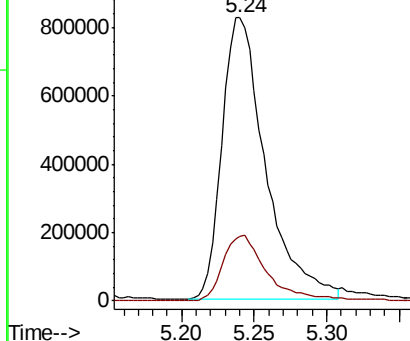
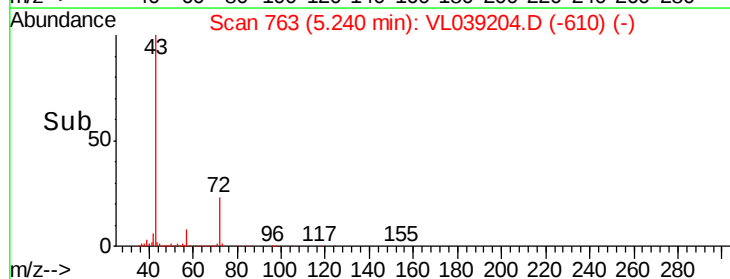
Ion Ratio Lower Upper

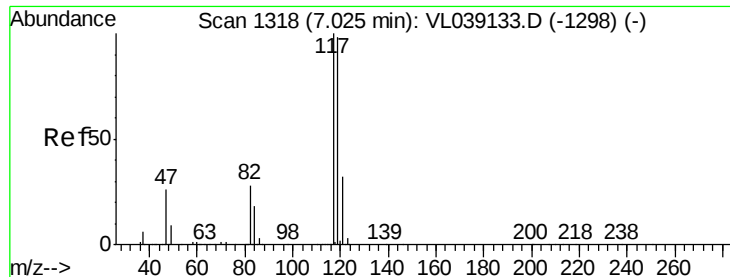
43 100

72 23.9 18.2 27.2



Abundance Ion 43.10 (42.80 to 43.80): VL0  
Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 8.698 ppbv

RT: 7.02 min Scan# 1315

Delta R.T. -0.01 min

Lab File: VL039204.D

Acq: 7 Jun 2022 11:12

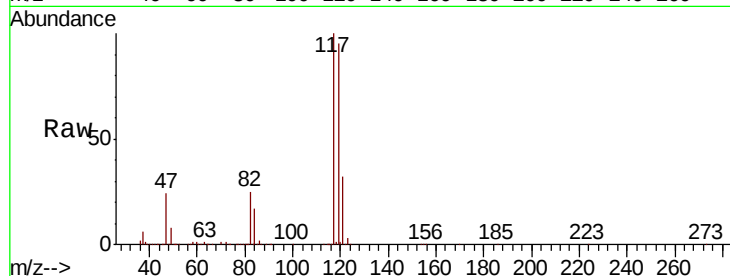
Tot Ion:117 Resp: 2059303

Ion Ratio Lower Upper

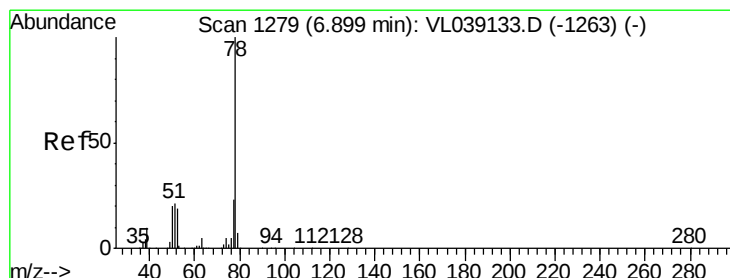
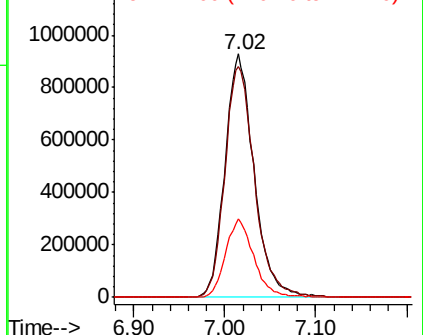
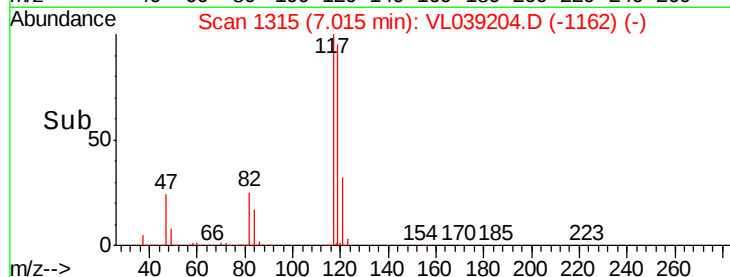
117 100

119 95.0 78.6 118.0

121 32.4 25.4 38.0



Abundance Ion 117.00 (116.70 to 117.70): V  
Ion 119.00 (118.70 to 119.70): V  
Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 10.636 ppbv

RT: 6.89 min Scan# 1276

Delta R.T. -0.01 min

Lab File: VL039204.D

Acq: 7 Jun 2022 11:12

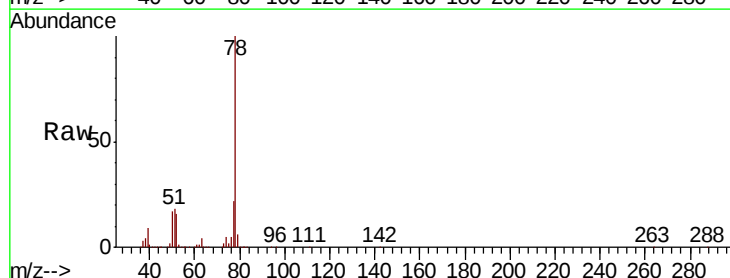
Tgt Ion: 78 Resp: 2800970

Ion Ratio Lower Upper

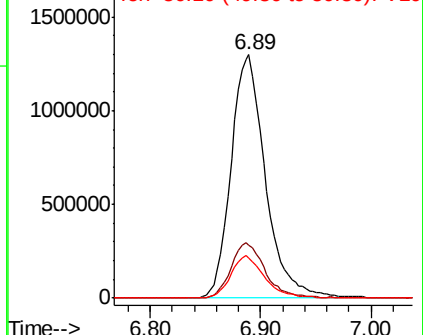
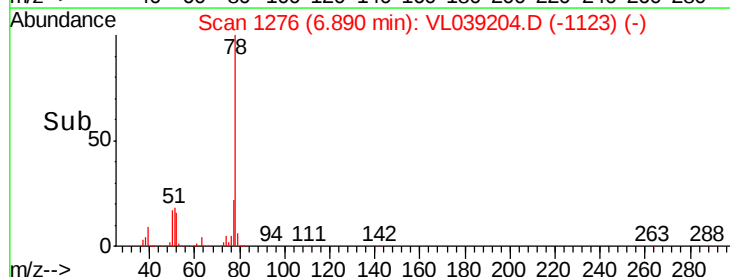
78 100

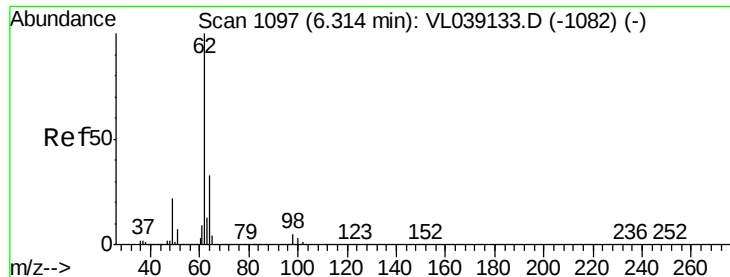
77 21.7 18.6 27.8

50 16.6 15.8 23.8



Abundance Ion 78.10 (77.80 to 78.80): VL0  
Ion 77.10 (76.80 to 77.80): VL0  
Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 8.156 ppbv

RT: 6.30 min Scan# 1093

Delta R.T. -0.01 min

Lab File: VL039204.D

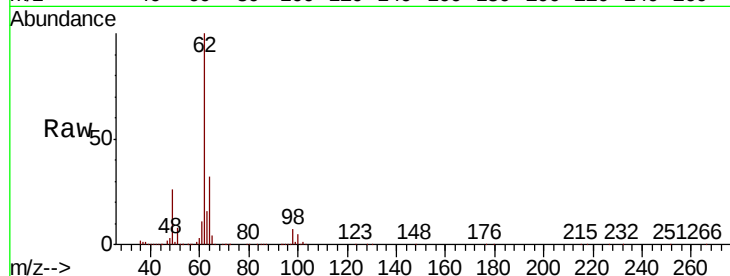
Acq: 7 Jun 2022 11:12

Tot Ion: 62 Resp: 1413572

Ion Ratio Lower Upper

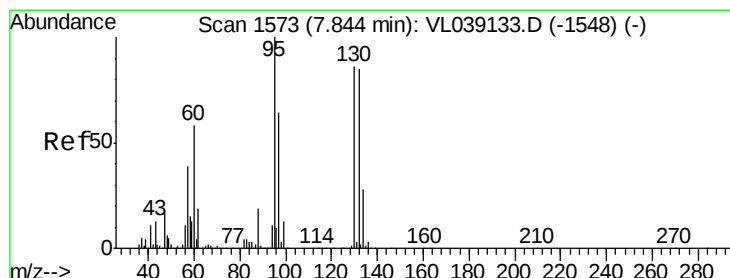
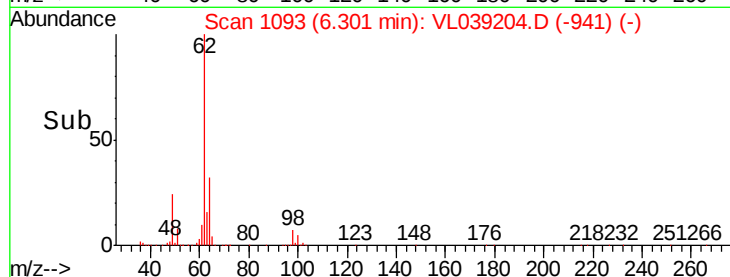
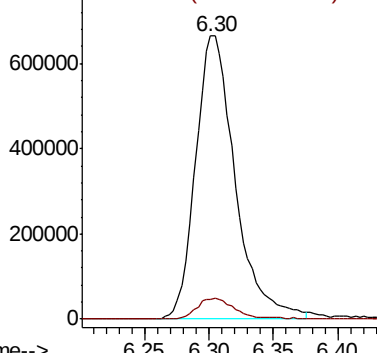
62 100

98 7.5 4.3 6.5#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#38

Trichloroethene

Concen: 9.418 ppbv

RT: 7.83 min Scan# 1569

Delta R.T. -0.01 min

Lab File: VL039204.D

Acq: 7 Jun 2022 11:12

Tgt Ion: 130 Resp: 1139307

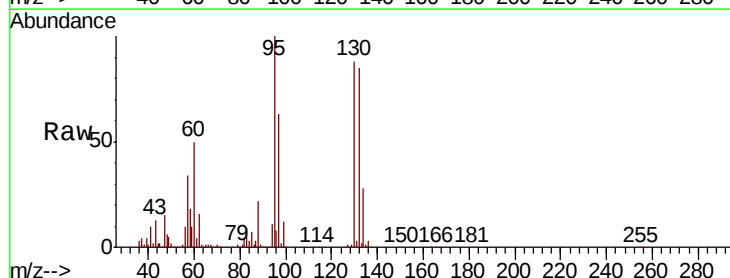
Ion Ratio Lower Upper

130 100

95 113.8 93.3 139.9

132 96.6 79.0 118.4

97 72.3 59.4 89.2

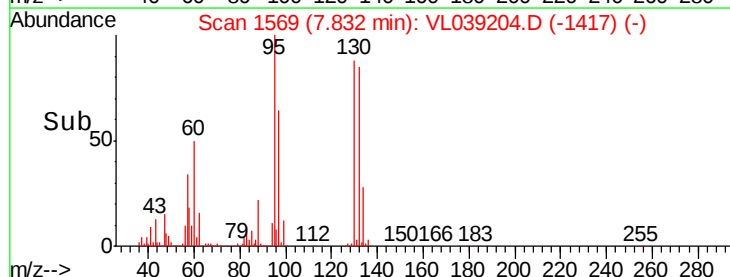
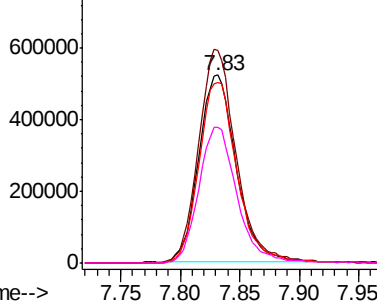


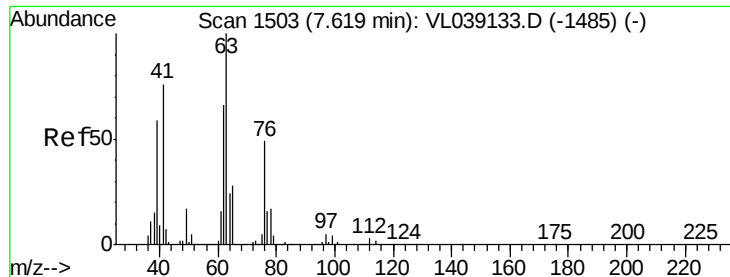
Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0





#39

1,2-Dichloropropane

Concen: 10.111 ppbv

RT: 7.61 min Scan# 1500

Delta R.T. -0.01 min

Lab File: VL039204.D

Acq: 7 Jun 2022 11:12

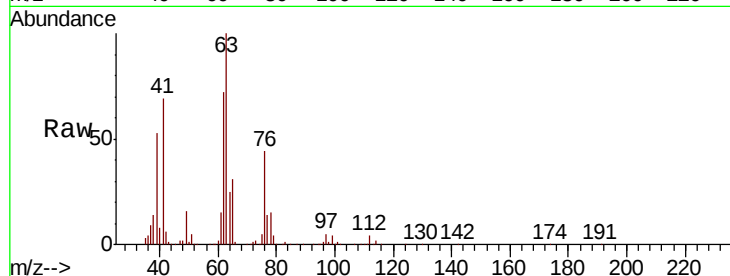
Tot Ion: 63 Resp: 1059116

Ion Ratio Lower Upper

63 100

41 68.6 60.8 91.2

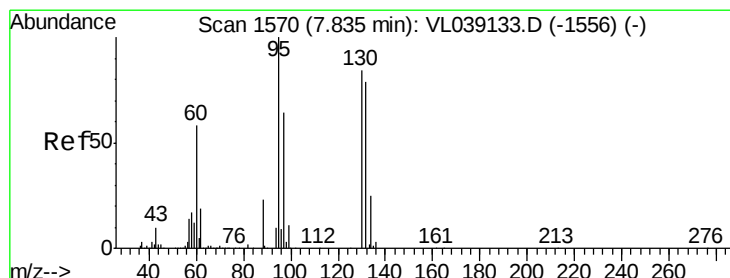
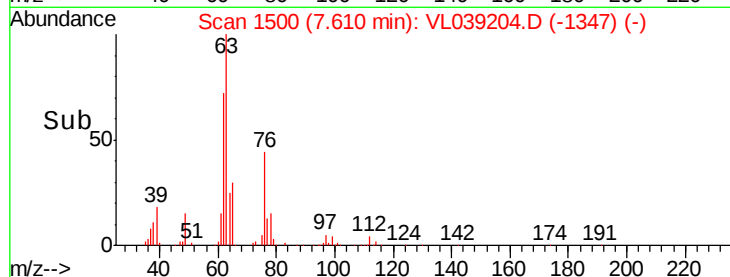
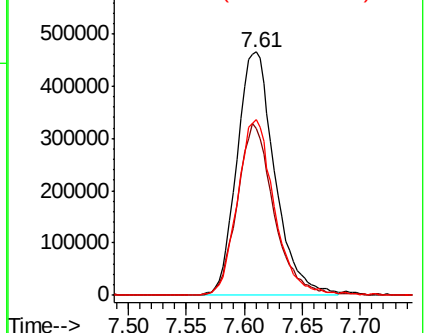
62 72.3 52.9 79.3



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 11.319 ppbv

RT: 7.82 min Scan# 1566

Delta R.T. -0.01 min

Lab File: VL039204.D

Acq: 7 Jun 2022 11:12

Tgt Ion: 88 Resp: 390355

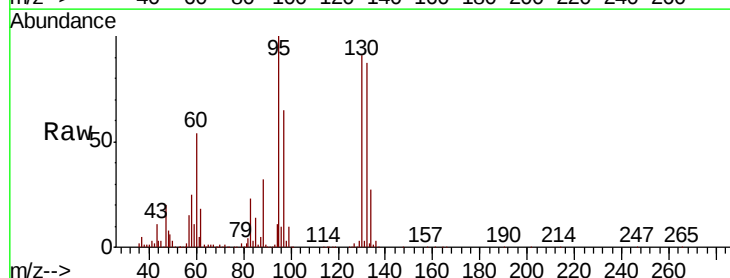
Ion Ratio Lower Upper

88 100

58 63.5 111.2 166.8#

43 0.0 234.2 351.4#

57 0.0 1039.9 1559.9#

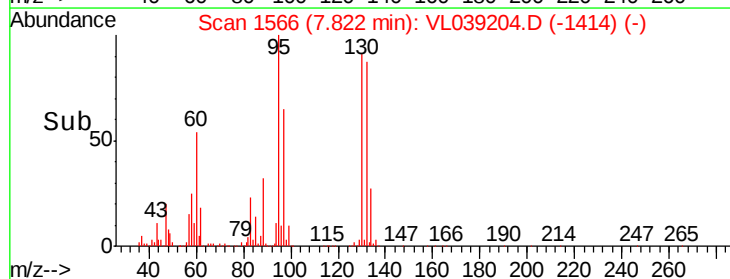
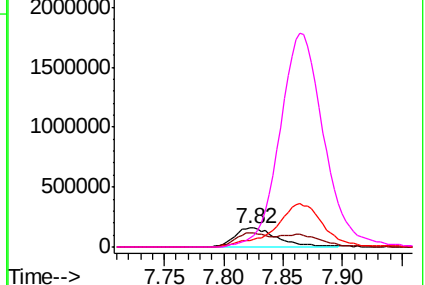


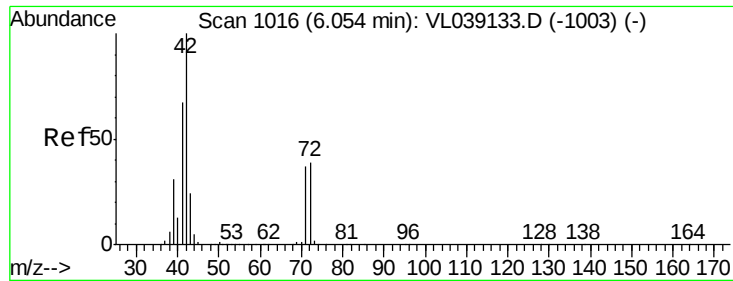
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#41

Tetrahydrofuran

Concen: 10.548 ppbv

RT: 6.04 min Scan# 1013

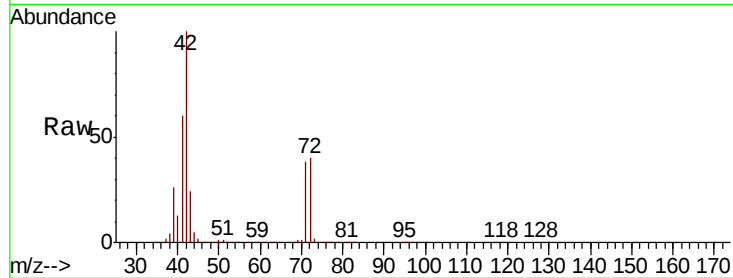
Delta R.T. -0.01 min

Lab File: VL039204.D

Acq: 7 Jun 2022 11:12

Tot Ion: 42 Resp: 1118009

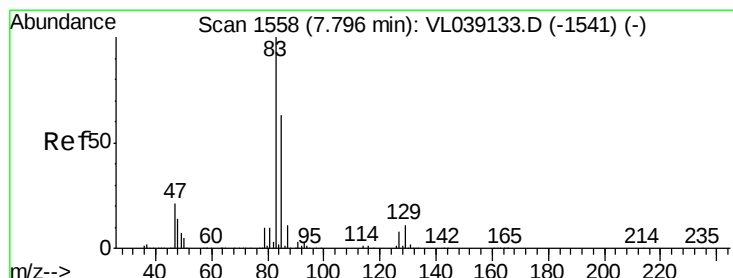
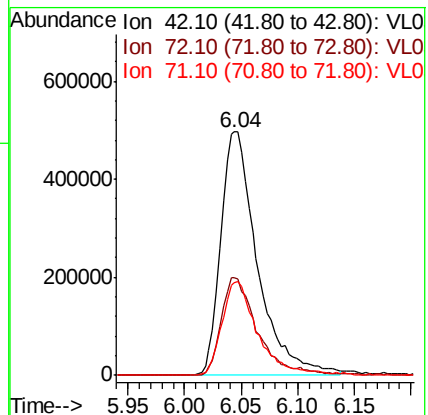
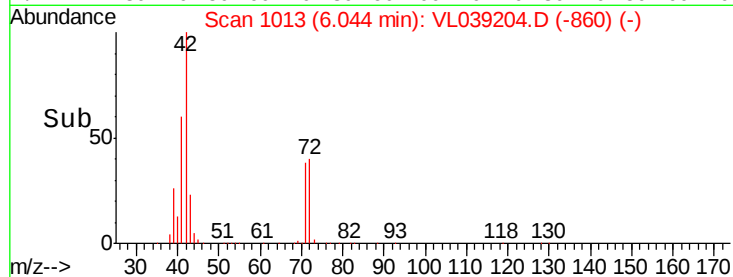
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 42  | 100   |       |       |
| 72  | 40.5  | 32.0  | 48.0  |
| 71  | 38.2  | 31.1  | 46.7  |



Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 9.209 ppbv

RT: 7.79 min Scan# 1555

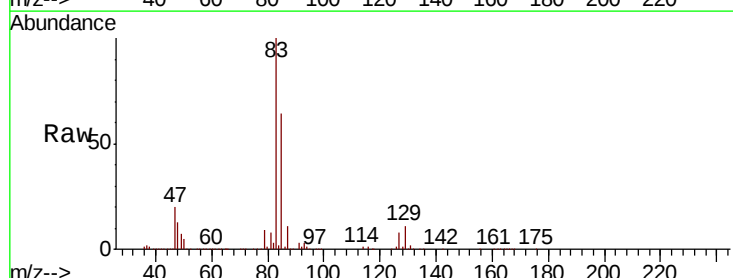
Delta R.T. -0.01 min

Lab File: VL039204.D

Acq: 7 Jun 2022 11:12

Tgt Ion: 83 Resp: 2215187

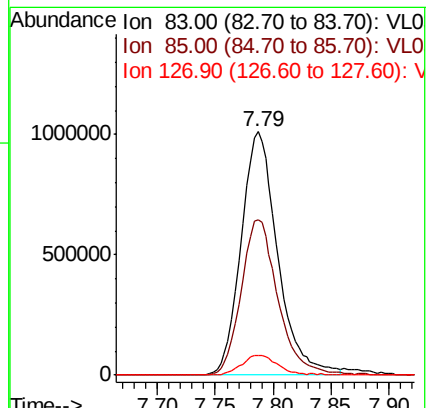
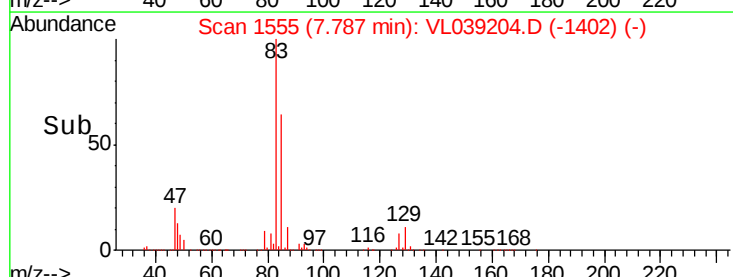
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 85  | 64.0  | 50.2  | 75.4  |
| 127 | 8.2   | 6.6   | 9.8   |

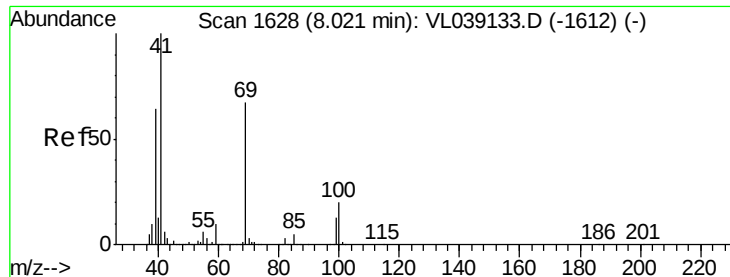


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V





#43

Methyl Methacrylate

Concen: 11.714 ppbv

RT: 8.01 min Scan# 1624

Delta R.T. -0.01 min

Lab File: VL039204.D

Acq: 7 Jun 2022 11:12

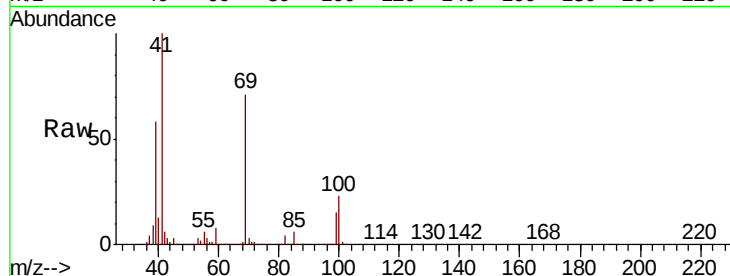
Tot Ion: 69 Resp: 1201625

Ion Ratio Lower Upper

69 100

41 142.5 121.9 182.9

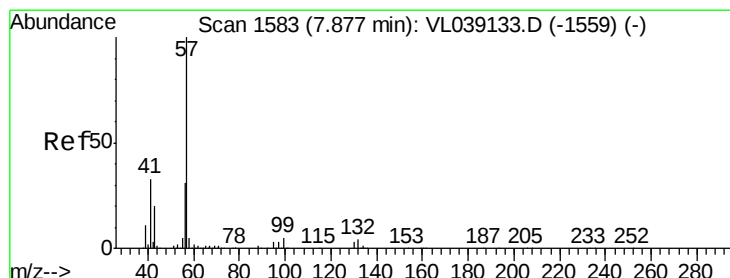
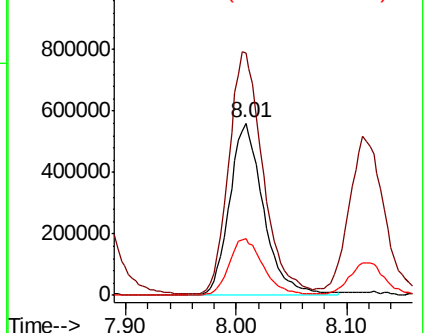
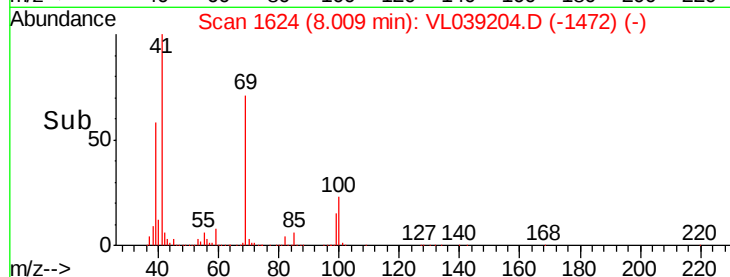
100 33.2 24.1 36.1



Abundance Ion 69.10 (68.80 to 69.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0



#44

2,2,4-Trimethylpentane

Concen: 9.947 ppbv

RT: 7.86 min Scan# 1579

Delta R.T. -0.01 min

Lab File: VL039204.D

Acq: 7 Jun 2022 11:12

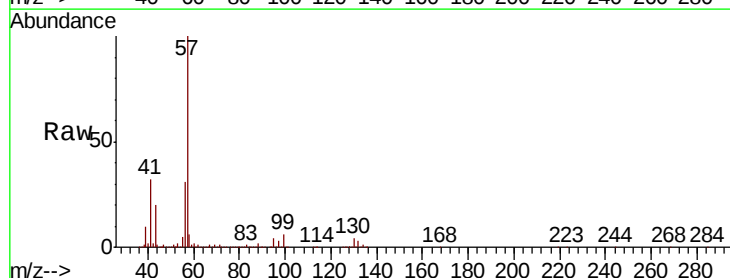
Tgt Ion: 57 Resp: 4582721

Ion Ratio Lower Upper

57 100

41 30.8 26.2 39.4

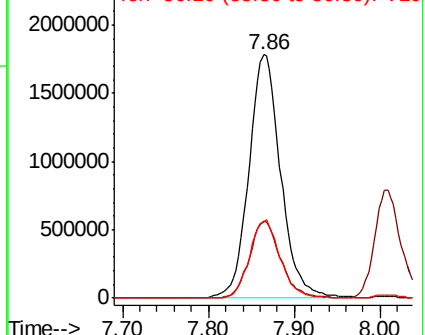
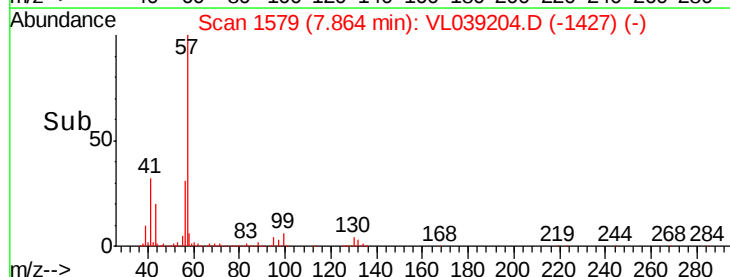
56 31.2 24.7 37.1

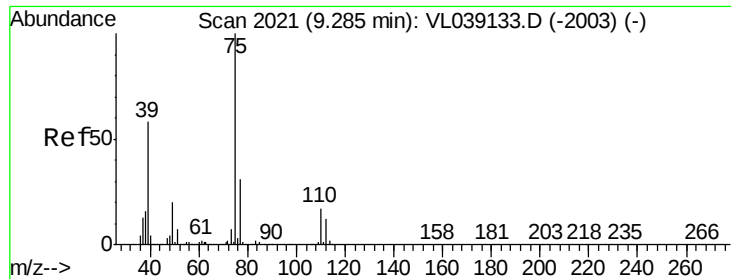


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#45

t-1,3-Dichloropropene

Concen: 8.516 ppbv

RT: 9.28 min Scan# 2018

Delta R.T. -0.01 min

Lab File: VL039204.D

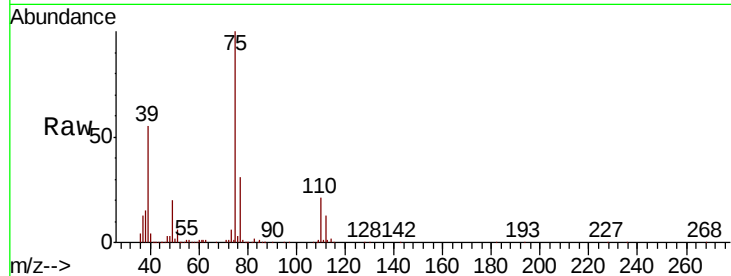
Acq: 7 Jun 2022 11:12

Tot Ion: 75 Resp: 909822

Ion Ratio Lower Upper

75 100

77 30.7 24.4 36.6



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

9.28

400000

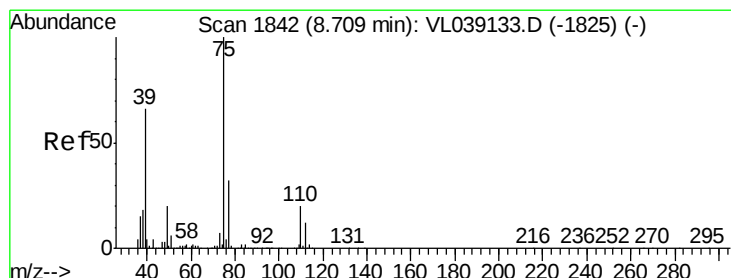
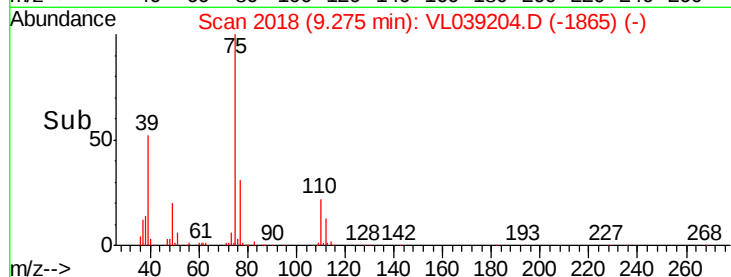
300000

200000

100000

0

Time-->



#46

cis-1,3-Dichloropropene

Concen: 9.091 ppbv

RT: 8.70 min Scan# 1838

Delta R.T. -0.01 min

Lab File: VL039204.D

Acq: 7 Jun 2022 11:12

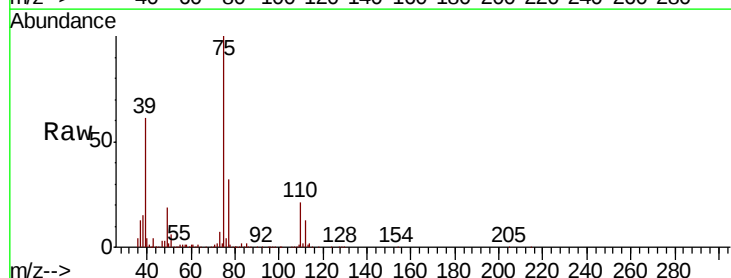
Tgt Ion: 75 Resp: 1283114

Ion Ratio Lower Upper

75 100

39 60.9 52.4 78.6

77 32.0 25.5 38.3



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

8.70

800000

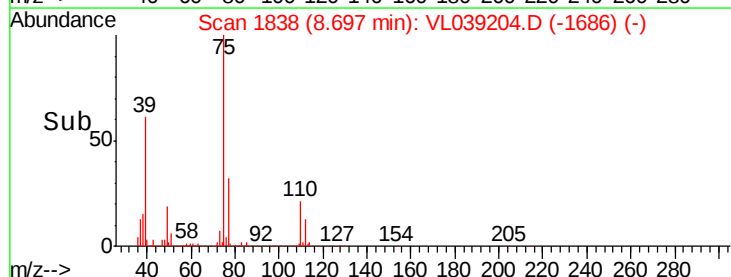
600000

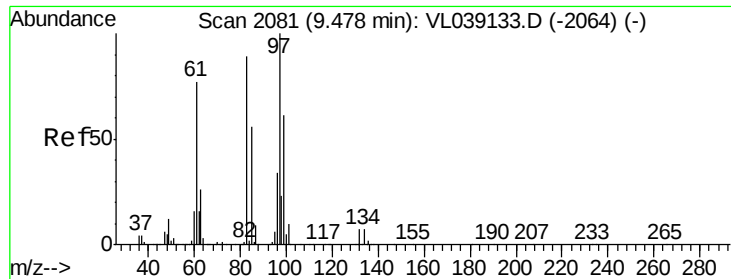
400000

200000

0

Time-->

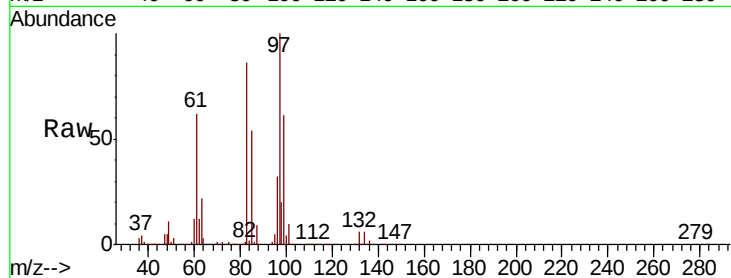




#47  
1,1,2-Trichloroethane  
Concen: 10.770 ppbv  
RT: 9.47 min Scan# 2079  
Delta R.T. -0.01 min  
Lab File: VL039204.D  
Acq: 7 Jun 2022 11:12

Tot Ion: 97 Resp: 1177012

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 83  | 86.2  | 71.6  | 107.4 |
| 85  | 54.2  | 44.8  | 67.2  |
| 99  | 60.7  | 49.0  | 73.4  |



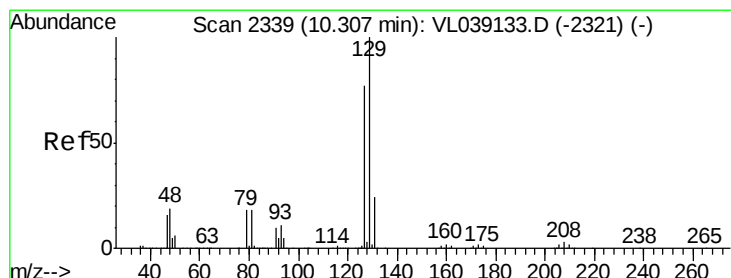
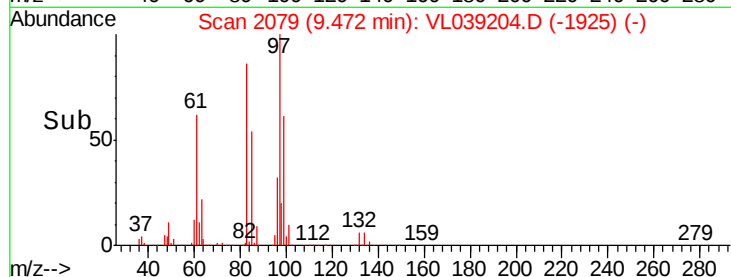
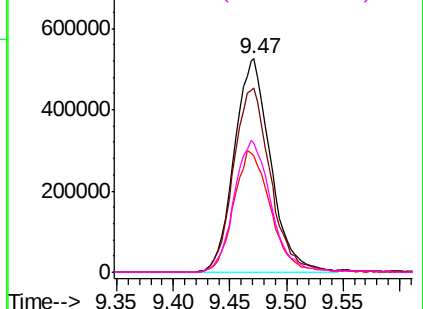
Abundance

Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

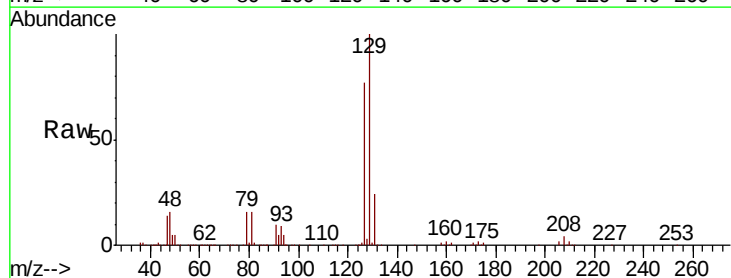
Ion 99.00 (98.70 to 99.70): VL0



#48  
Dibromochloromethane  
Concen: 9.951 ppbv  
RT: 10.30 min Scan# 2336  
Delta R.T. -0.01 min  
Lab File: VL039204.D  
Acq: 7 Jun 2022 11:12

Tgt Ion: 129 Resp: 1941838

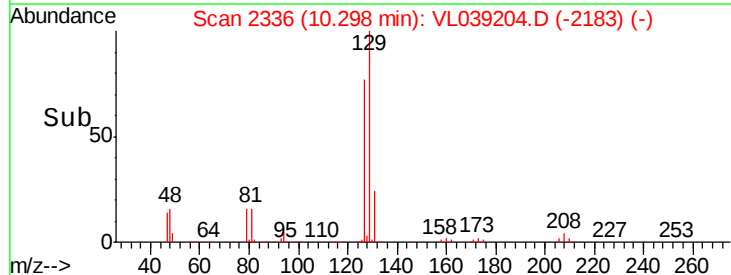
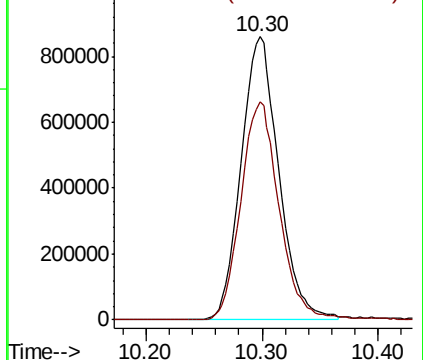
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 129 | 100   |       |       |
| 127 | 78.6  | 40.0  | 119.9 |

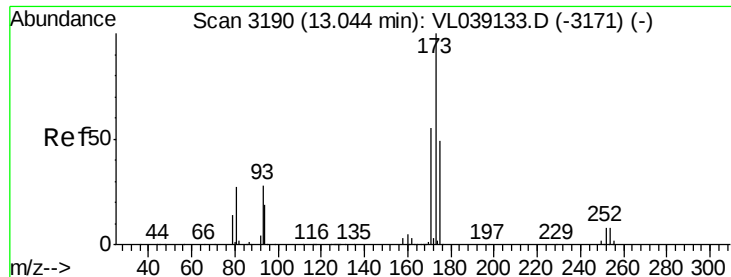


Abundance

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 10.214 ppbv

RT: 13.03 min Scan# 3186

Delta R.T. -0.01 min

Lab File: VL039204.D

Acq: 7 Jun 2022 11:12

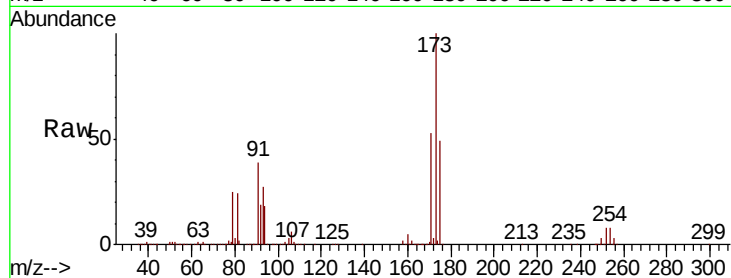
Tot Ion:173 Resp: 1661048

Ion Ratio Lower Upper

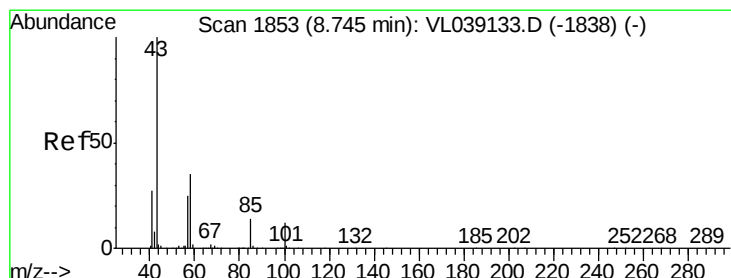
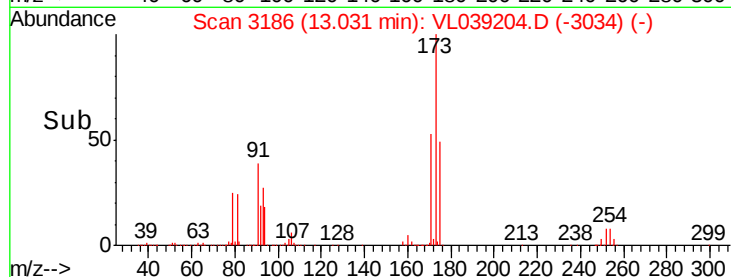
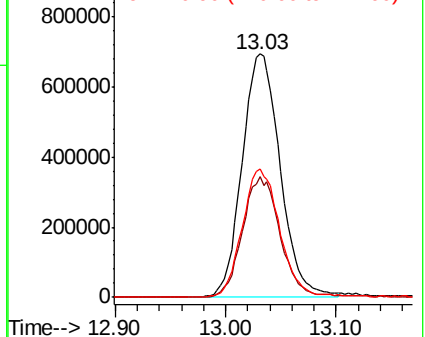
173 100

175 49.7 40.2 60.2

171 52.9 43.9 65.9



Abundance Ion 172.90 (172.60 to 173.60): V  
Ion 174.90 (174.60 to 175.60): V  
Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 10.416 ppbv

RT: 8.73 min Scan# 1849

Delta R.T. -0.01 min

Lab File: VL039204.D

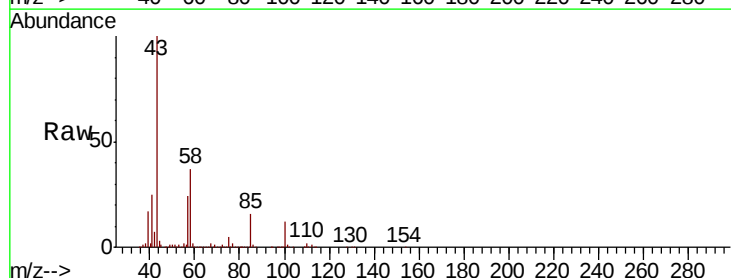
Acq: 7 Jun 2022 11:12

Tgt Ion: 43 Resp: 2747783

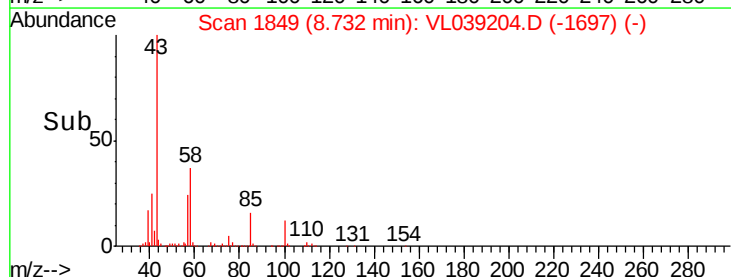
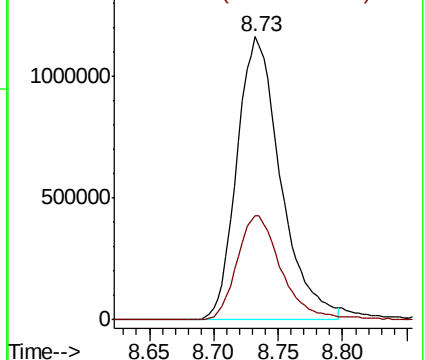
Ion Ratio Lower Upper

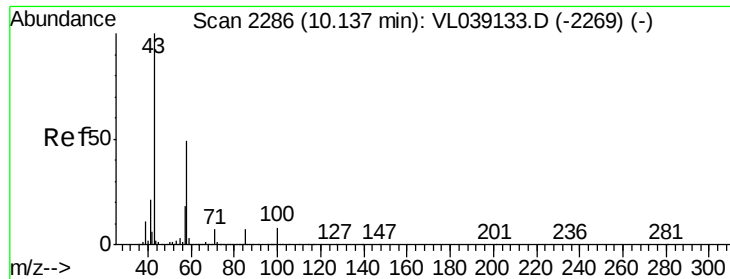
43 100

58 37.6 28.7 43.1



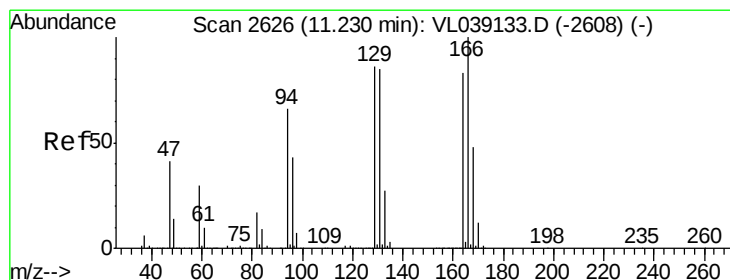
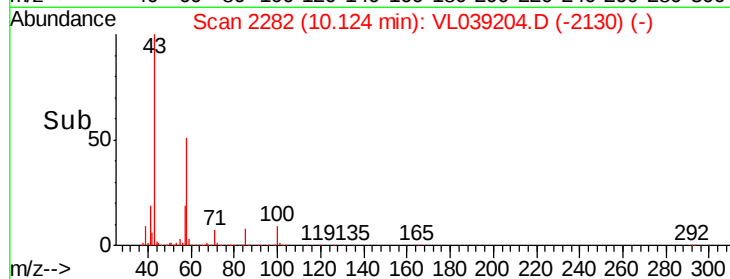
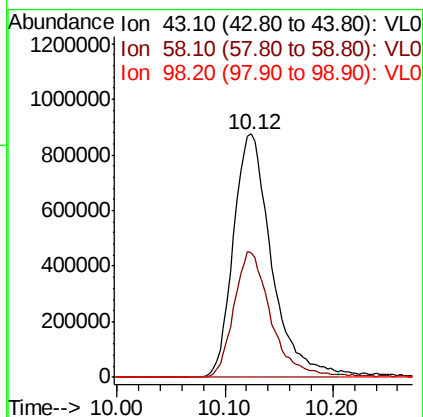
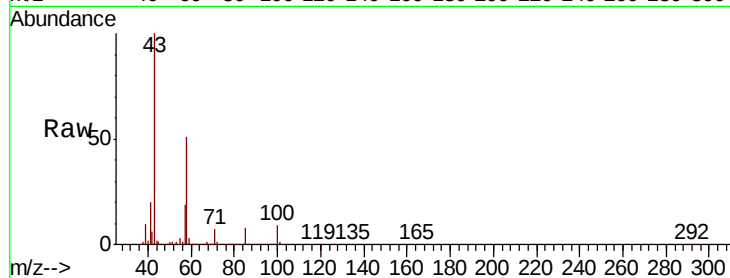
Abundance Ion 43.10 (42.80 to 43.80): VL0  
Ion 58.10 (57.80 to 58.80): VL0





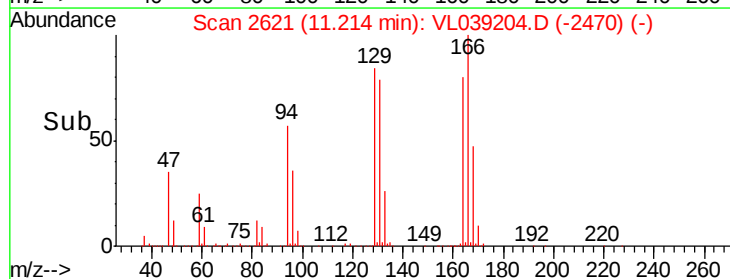
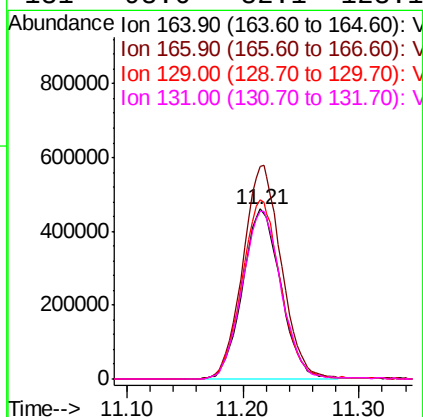
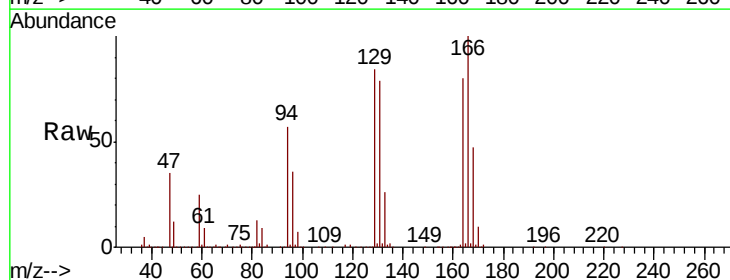
#51  
2-Hexanone  
Concen: 10.452 ppbv  
RT: 10.12 min Scan# 2282  
Delta R.T. -0.01 min  
Lab File: VL039204.D  
Acq: 7 Jun 2022 11:12

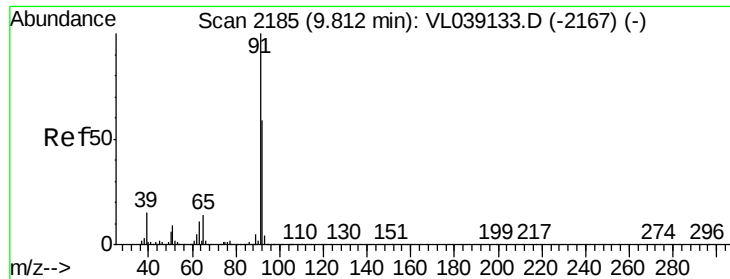
Tot Ion: 43 Resp: 2145387  
Ion Ratio Lower Upper  
43 100  
58 51.2 40.0 60.0  
98 0.2 0.1 0.1#



#52  
Tetrachloroethene  
Concen: 10.273 ppbv  
RT: 11.21 min Scan# 2621  
Delta R.T. -0.02 min  
Lab File: VL039204.D  
Acq: 7 Jun 2022 11:12

Tgt Ion: 164 Resp: 1056323  
Ion Ratio Lower Upper  
164 100  
166 124.7 96.3 144.5  
129 105.3 82.5 123.7  
131 98.6 82.1 123.1





#53

Toluene

Concen: 10.825 ppbv

RT: 9.80 min Scan# 2181

Delta R.T. -0.01 min

Lab File: VL039204.D

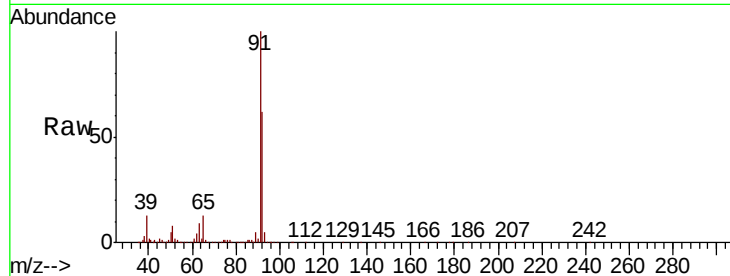
Acq: 7 Jun 2022 11:12

Tot Ion: 91 Resp: 3282770

Ion Ratio Lower Upper

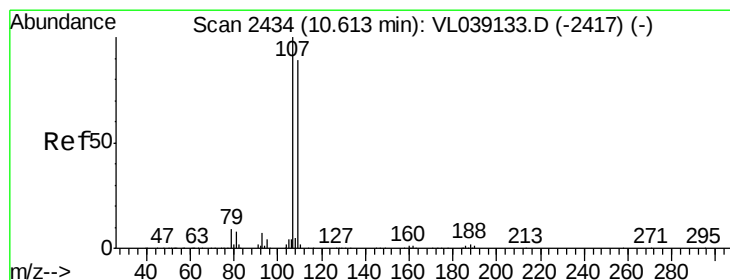
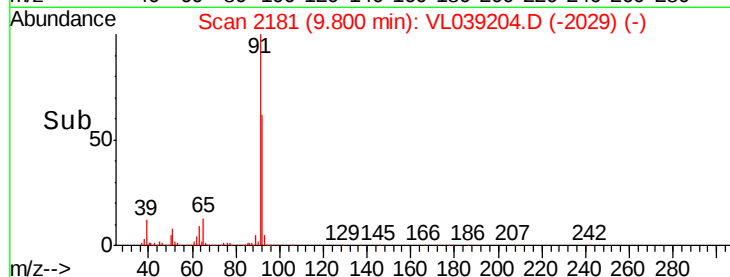
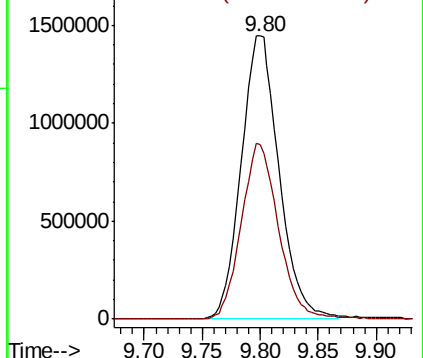
91 100

92 61.5 48.1 72.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 11.289 ppbv

RT: 10.60 min Scan# 2431

Delta R.T. -0.01 min

Lab File: VL039204.D

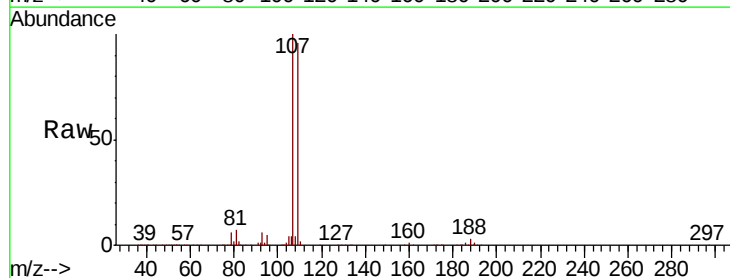
Acq: 7 Jun 2022 11:12

Tgt Ion: 107 Resp: 1657807

Ion Ratio Lower Upper

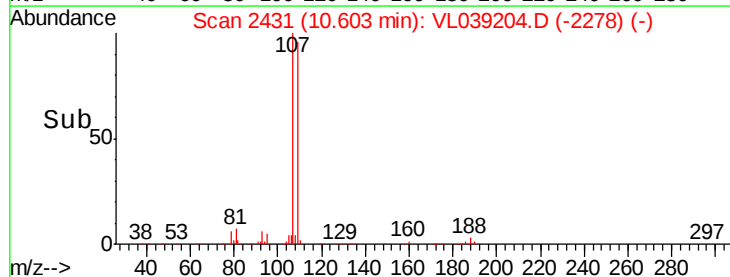
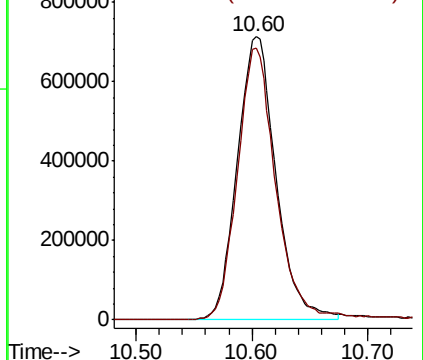
107 100

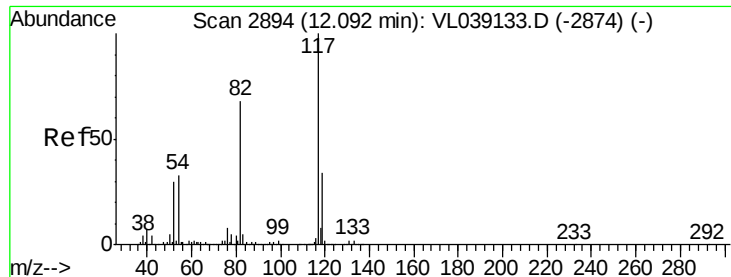
109 96.2 71.4 107.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

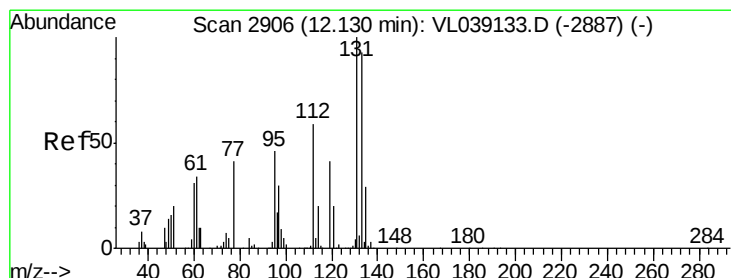
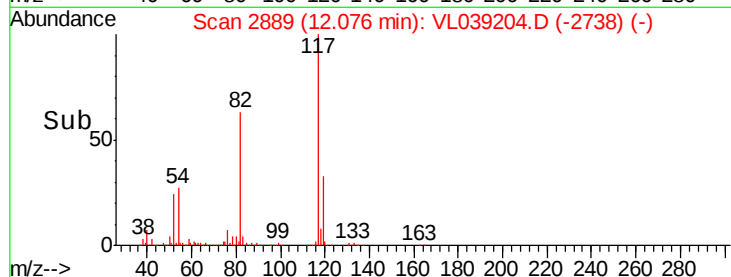
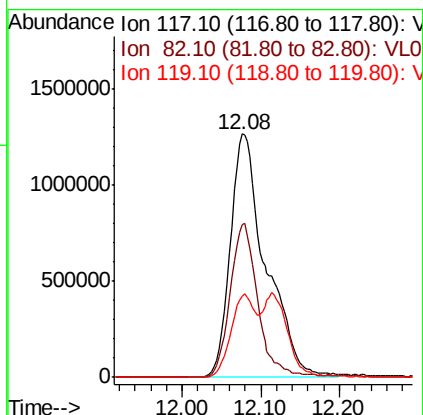
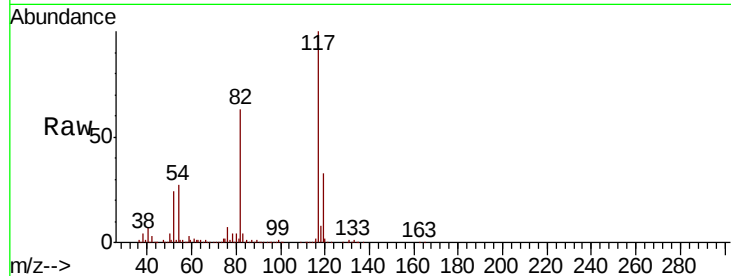




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.08 min Scan# 2889  
Delta R.T. -0.02 min  
Lab File: VL039204.D  
Acq: 7 Jun 2022 11:12

Tot Ion:117 Resp: 3988798  

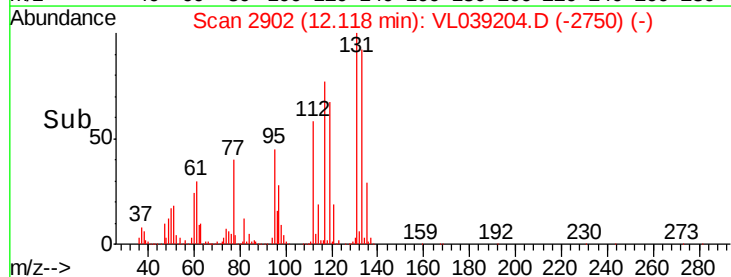
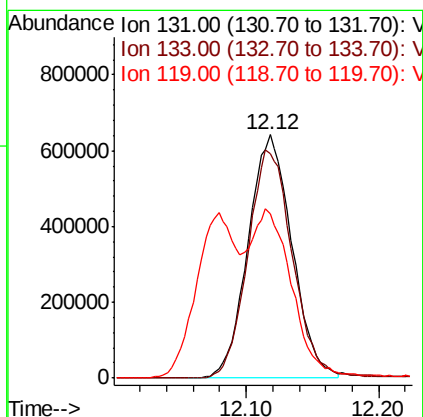
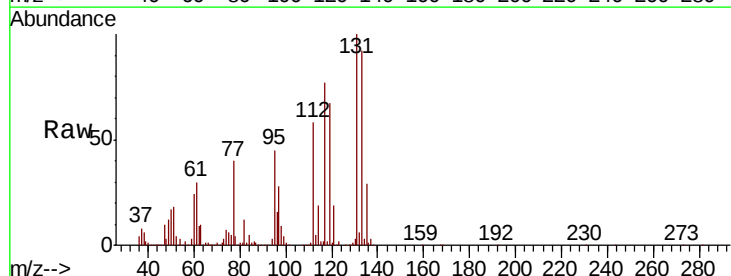
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 117 | 100   |       |       |
| 82  | 49.8  | 55.1  | 82.7# |
| 119 | 24.3  | 24.7  | 37.1# |

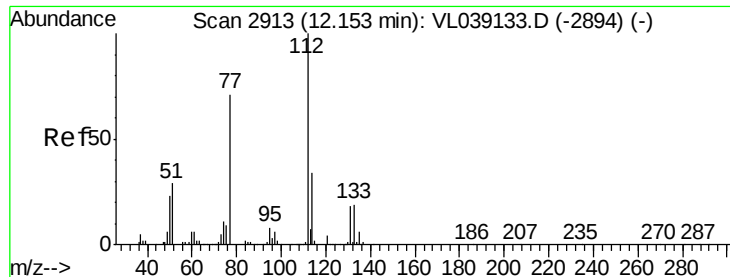


#56  
1,1,1,2-Tetrachloroethane  
Concen: 7.814 ppbv  
RT: 12.12 min Scan# 2902  
Delta R.T. -0.01 min  
Lab File: VL039204.D  
Acq: 7 Jun 2022 11:12

Tgt Ion:131 Resp: 1474748  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 131 | 100   |       |       |
| 133 | 96.8  | 78.6  | 117.8 |
| 119 | 63.6  | 51.7  | 77.5  |





#57

Chlorobenzene

Concen: 8.057 ppbv

RT: 12.14 min Scan# 2909

Delta R.T. -0.01 min

Lab File: VL039204.D

Acq: 7 Jun 2022 11:12

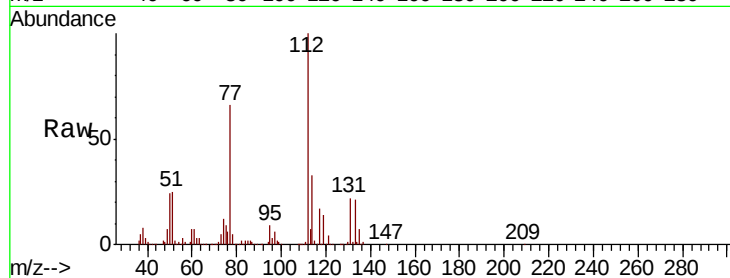
Tot Ion:112 Resp: 2418222

Ion Ratio Lower Upper

112 100

77 65.3 56.5 84.7

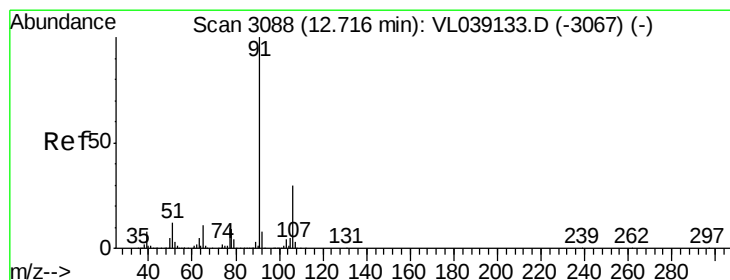
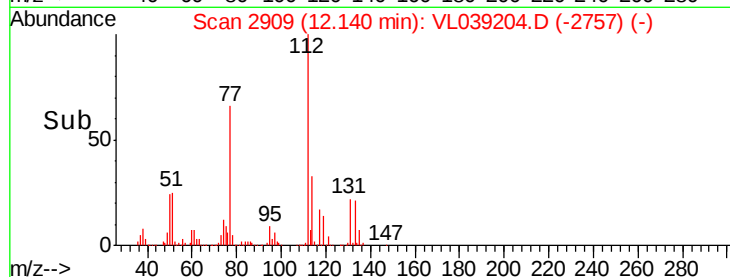
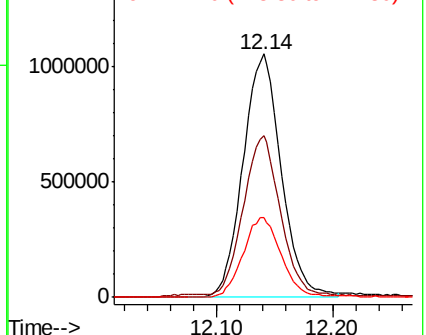
114 32.9 30.3 37.1



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 8.144 ppbv

RT: 12.70 min Scan# 3083

Delta R.T. -0.02 min

Lab File: VL039204.D

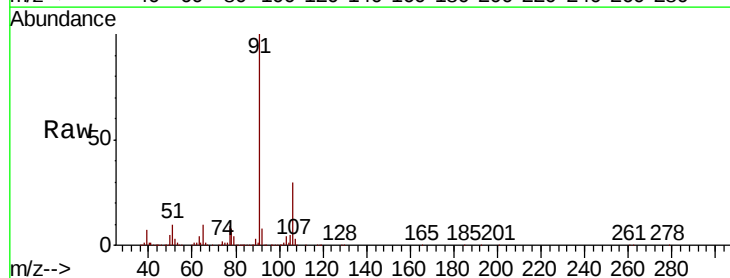
Acq: 7 Jun 2022 11:12

Tgt Ion: 91 Resp: 4474662

Ion Ratio Lower Upper

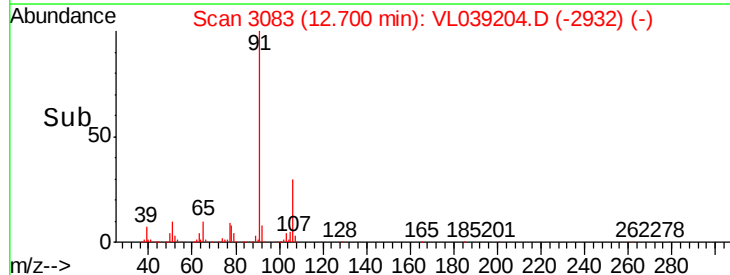
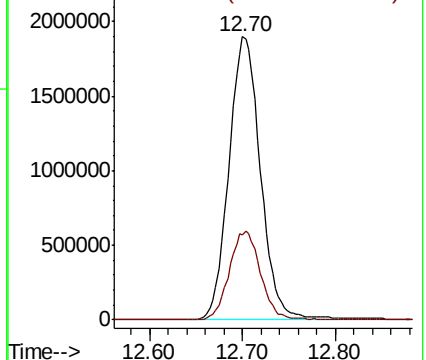
91 100

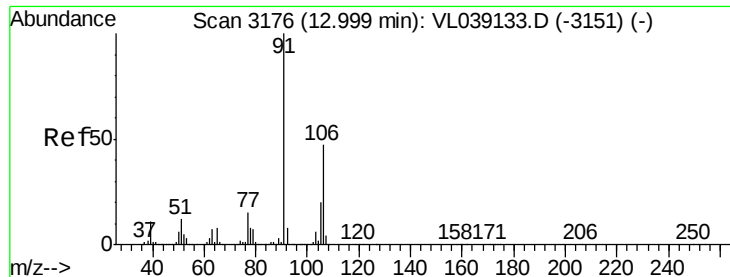
106 30.2 24.2 36.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

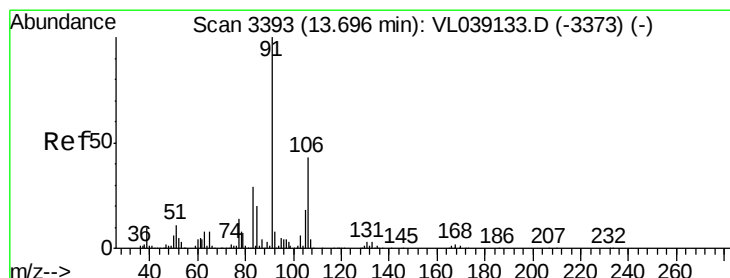
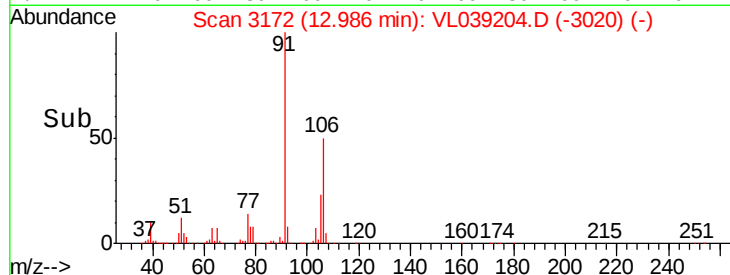
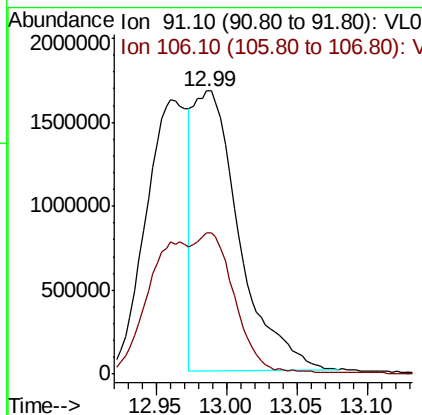
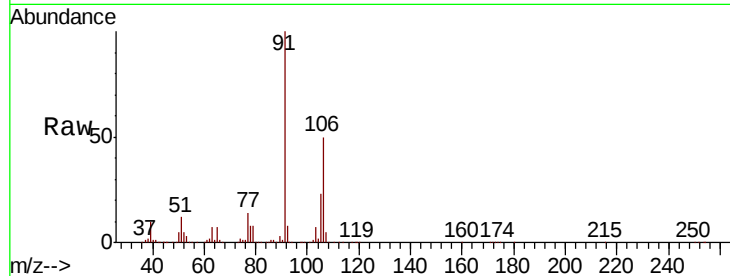
Ion 106.10 (105.80 to 106.80): V





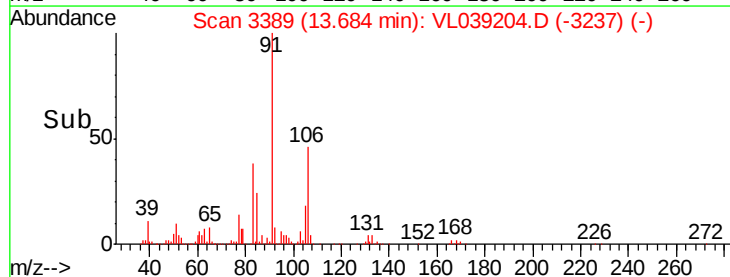
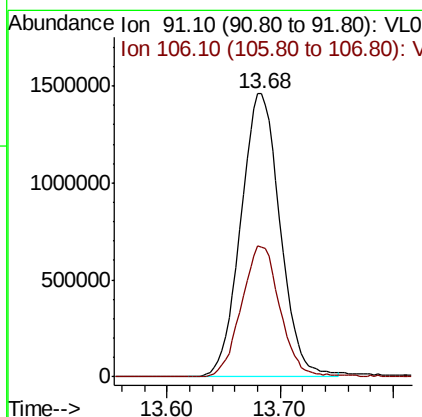
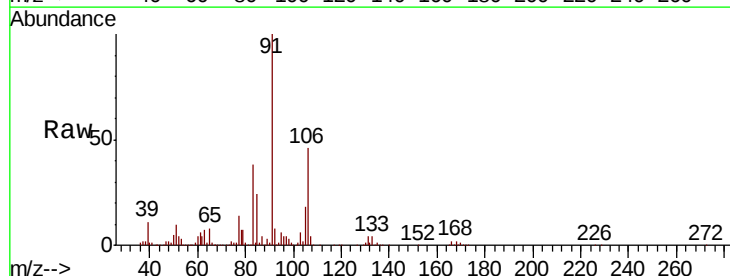
#59  
m/p-Xylene  
Concen: 7.812 ppbv  
RT: 12.99 min Scan# 3172  
Delta R.T. -0.01 min  
Lab File: VL039204.D  
Acq: 7 Jun 2022 11:12

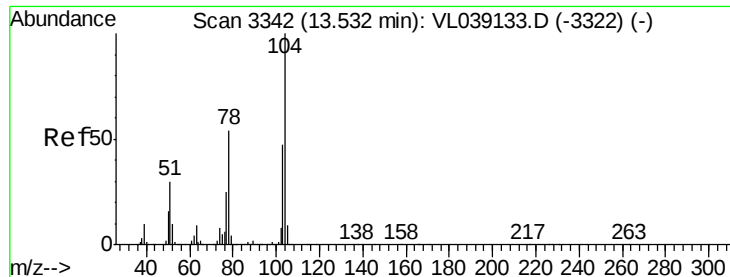
Tot Ion: 91 Resp: 3779812  
Ion Ratio Lower Upper  
91 100  
106 88.9 34.3 51.5#



#60  
o-Xylene  
Concen: 7.752 ppbv  
RT: 13.68 min Scan# 3389  
Delta R.T. -0.01 min  
Lab File: VL039204.D  
Acq: 7 Jun 2022 11:12

Tgt Ion: 91 Resp: 3524642  
Ion Ratio Lower Upper  
91 100  
106 46.1 22.3 66.9

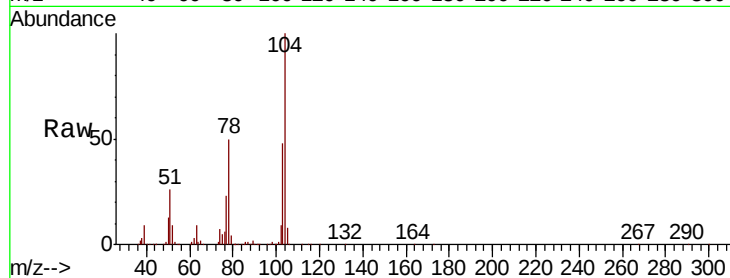




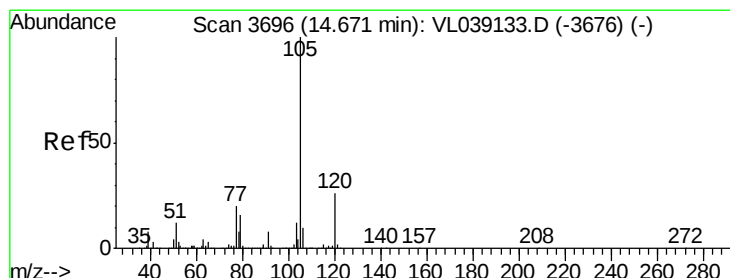
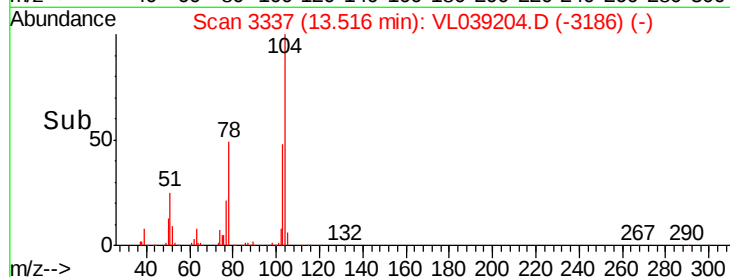
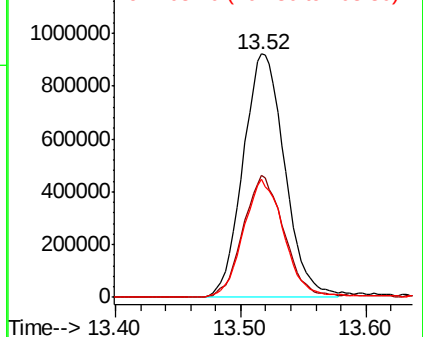
#61  
Stvrene  
Concen: 8.760 ppbv  
RT: 13.52 min Scan# 3337  
Delta R.T. -0.02 min  
Lab File: VL039204.D  
Acq: 7 Jun 2022 11:12

Tot Ion:104 Resp: 2132599

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 104 | 100   |       |       |
| 78  | 49.6  | 45.7  | 68.5  |
| 103 | 47.7  | 39.6  | 59.4  |



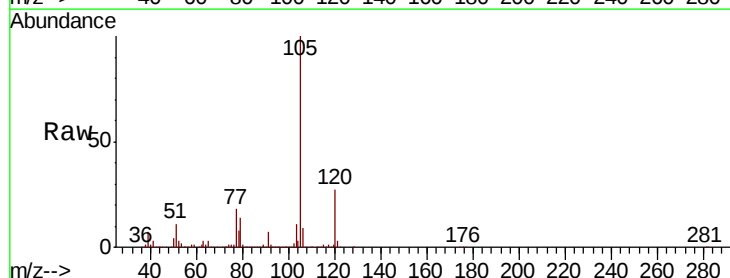
Abundance Ion 104.10 (103.80 to 104.80): V  
Ion 78.10 (77.80 to 78.80): VL0  
Ion 103.10 (102.80 to 103.80): V



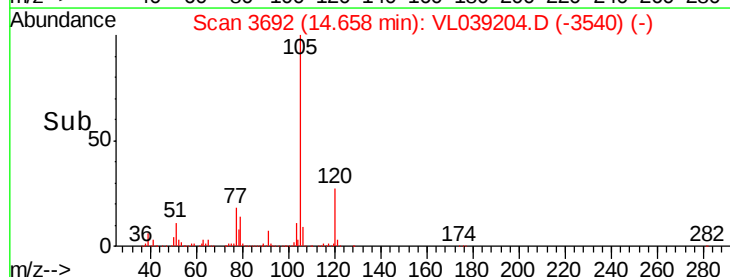
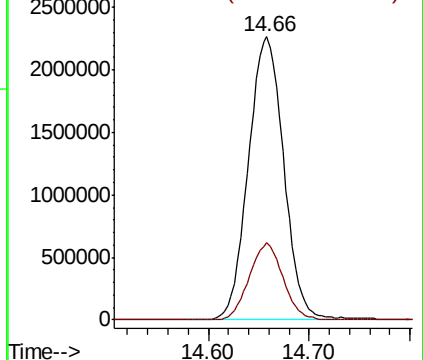
#62  
Isopropylbenzene  
Concen: 8.130 ppbv  
RT: 14.66 min Scan# 3692  
Delta R.T. -0.01 min  
Lab File: VL039204.D  
Acq: 7 Jun 2022 11:12

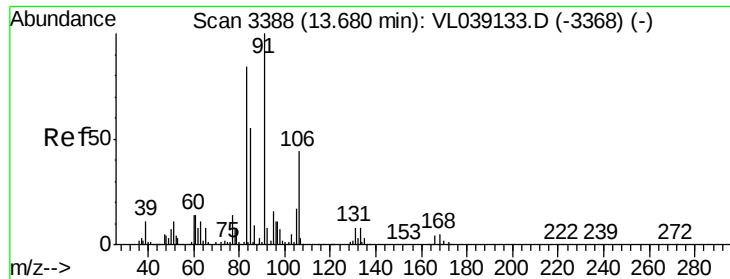
Tgt Ion:105 Resp: 5493784

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 105 | 100   |       |       |
| 120 | 26.2  | 20.3  | 30.5  |



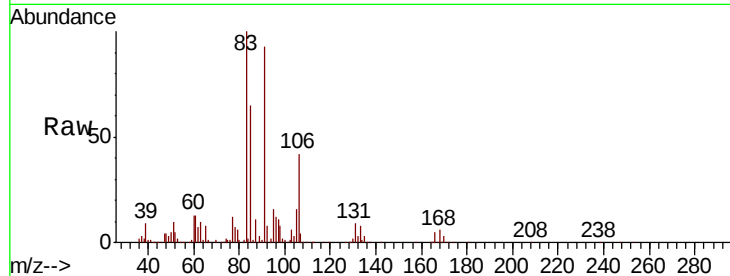
Abundance Ion 105.10 (104.80 to 105.80): V  
Ion 120.20 (119.90 to 120.90): V



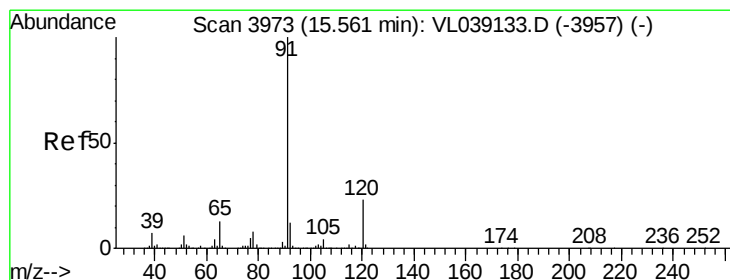
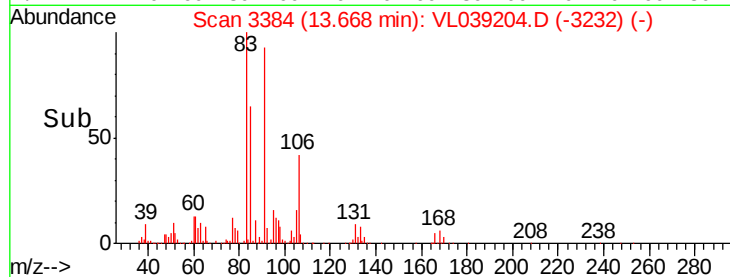
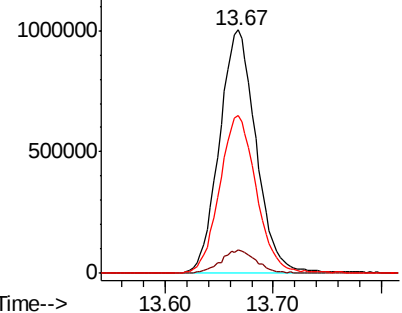


#63  
 1,1,2,2-Tetrachloroethane  
 Concen: 9.258 ppbv  
 RT: 13.67 min Scan# 3384  
 Delta R.T. -0.01 min  
 Lab File: VL039204.D  
 Acq: 7 Jun 2022 11:12

Tot Ion: 83 Resp: 2362640  
 Ion Ratio Lower Upper  
 83 100  
 131 9.4 4.8 14.3  
 85 65.8 33.0 99.0

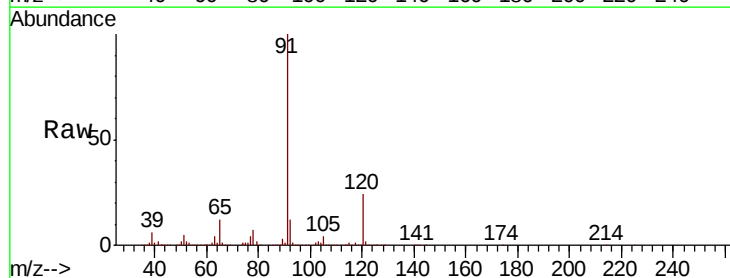


Abundance Ion 83.00 (82.70 to 83.70): VL0  
 Ion 131.00 (130.70 to 131.70): V  
 Ion 85.00 (84.70 to 85.70): VL0

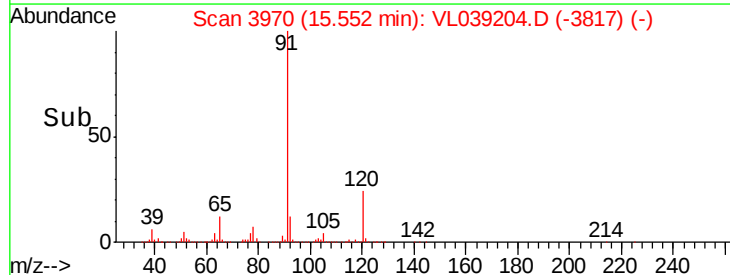
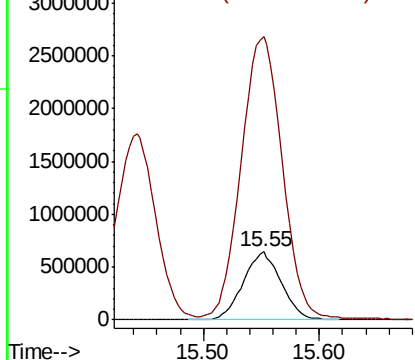


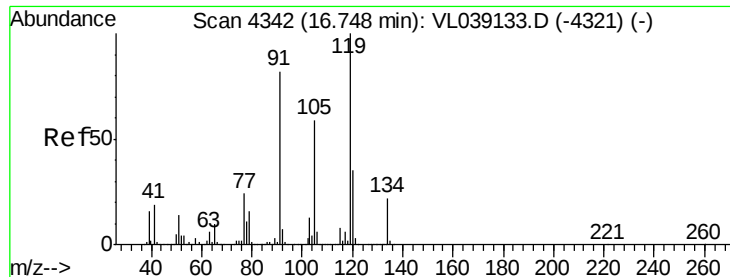
#64  
 n-propylbenzene  
 Concen: 8.841 ppbv  
 RT: 15.55 min Scan# 3970  
 Delta R.T. -0.01 min  
 Lab File: VL039204.D  
 Acq: 7 Jun 2022 11:12

Tgt Ion:120 Resp: 1468575  
 Ion Ratio Lower Upper  
 120 100  
 91 454.2 388.4 582.6



Abundance Ion 120.20 (119.90 to 120.90): V  
 Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 7.803 ppbv

RT: 16.73 min Scan# 4337

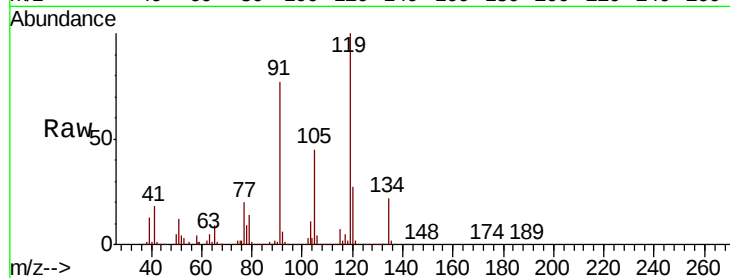
Delta R.T. -0.02 min

Lab File: VL039204.D

Acq: 7 Jun 2022 11:12

Tot Ion: 119 Resp: 4821326

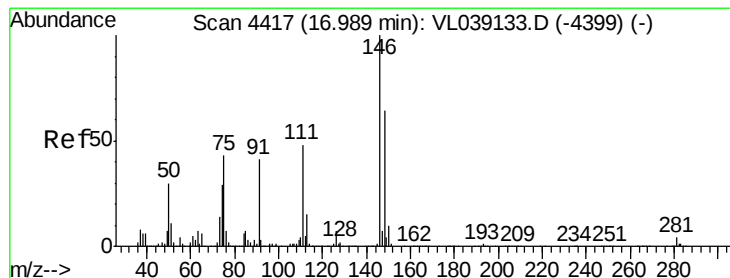
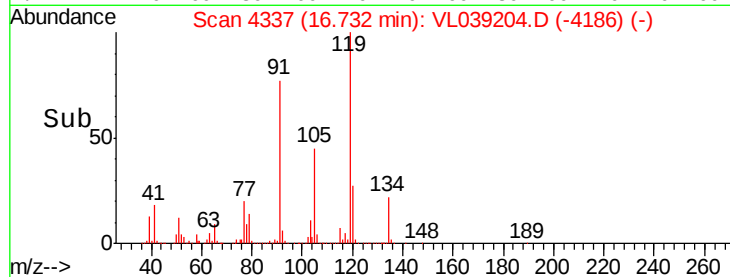
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 119 | 100   |       |       |
| 91  | 78.0  | 67.1  | 100.7 |
| 134 | 20.2  | 15.8  | 23.8  |



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 4.440 ppbv

RT: 16.98 min Scan# 4413

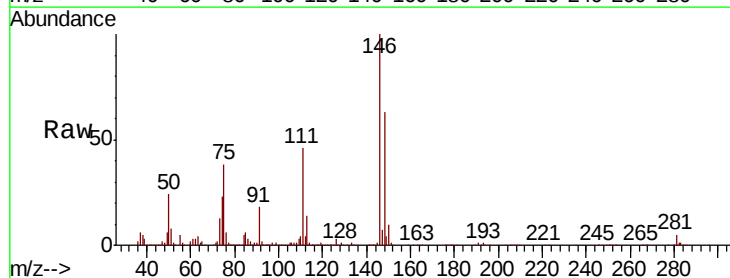
Delta R.T. -0.01 min

Lab File: VL039204.D

Acq: 7 Jun 2022 11:12

Tgt Ion: 91 Resp: 356728

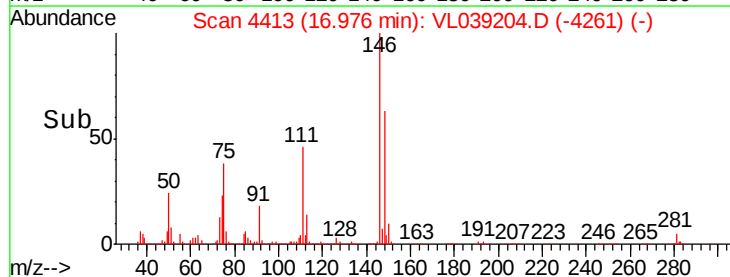
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 91  | 100   |       |       |
| 126 | 16.3  | 13.4  | 20.0  |
| 128 | 5.6   | 4.1   | 6.1   |

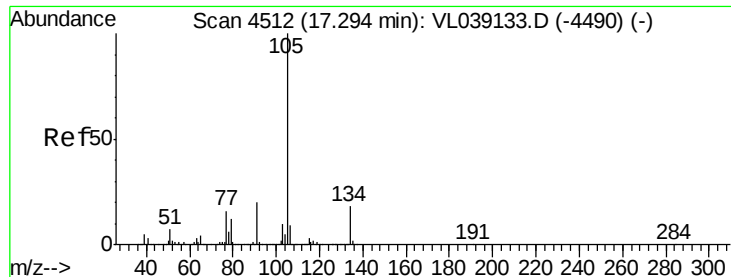


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 8.113 ppbv

RT: 17.28 min Scan# 4508

Delta R.T. -0.01 min

Lab File: VL039204.D

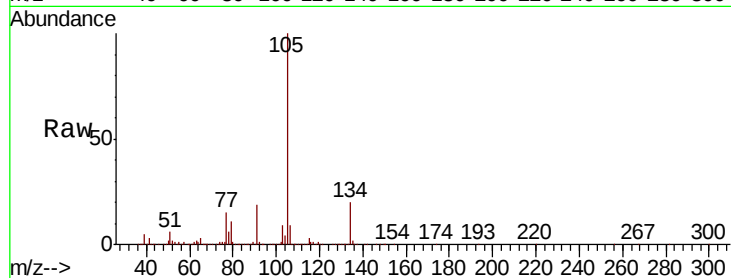
Acq: 7 Jun 2022 11:12

Tot Ion: 105 Resp: 6839954

Ion Ratio Lower Upper

105 100

134 18.7 14.4 21.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

17.28

3000000

2500000

2000000

1500000

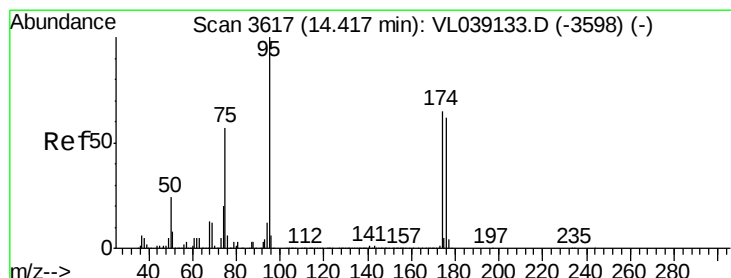
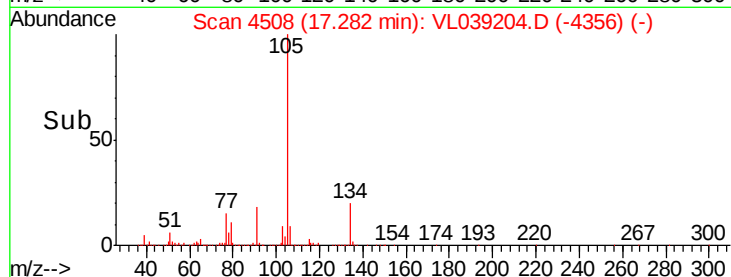
1000000

500000

0

Time-->

17.20 17.30 17.40



#68

1-Bromo-4-Fluorobenzene

Concen: 7.292 ppbv

RT: 14.40 min Scan# 3613

Delta R.T. -0.01 min

Lab File: VL039204.D

Acq: 7 Jun 2022 11:12

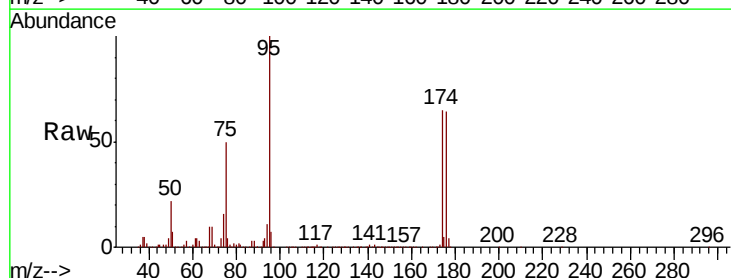
Tgt Ion: 95 Resp: 2404824

Ion Ratio Lower Upper

95 100

174 68.5 53.8 80.8

175 5.1 4.1 6.1



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

14.40

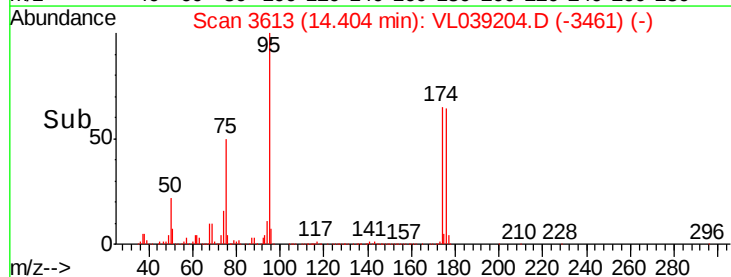
1000000

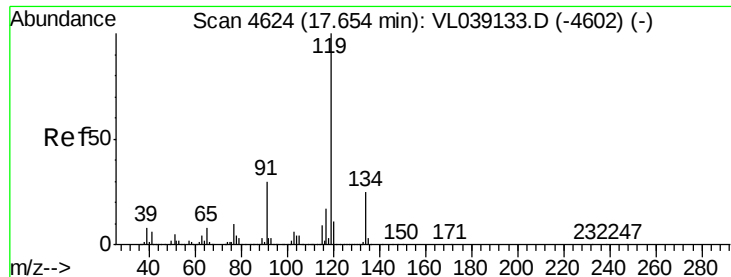
500000

0

Time-->

14.30 14.40 14.50

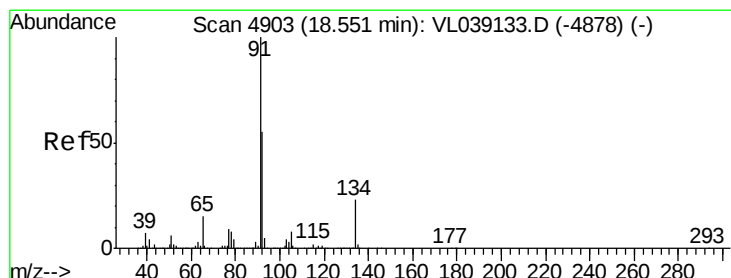
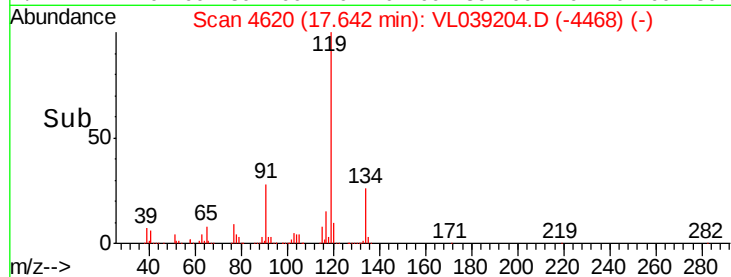
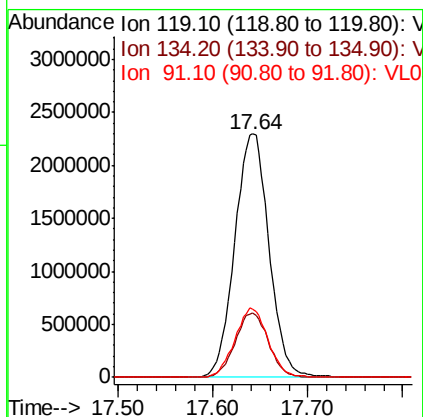
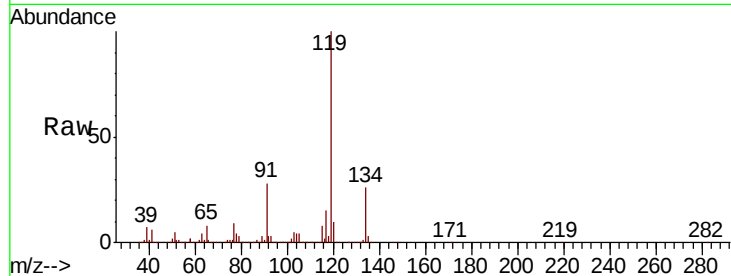




#69  
 p-Isopropyltoluene  
 Concen: 8.108 ppbv  
 RT: 17.64 min Scan# 4620  
 Delta R.T. -0.01 min  
 Lab File: VL039204.D  
 Acq: 7 Jun 2022 11:12

Tot Ion: 119 Resp: 5767272

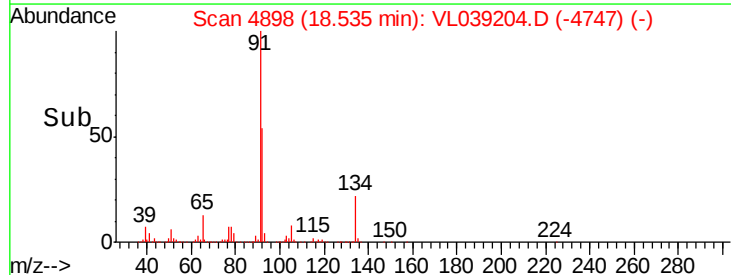
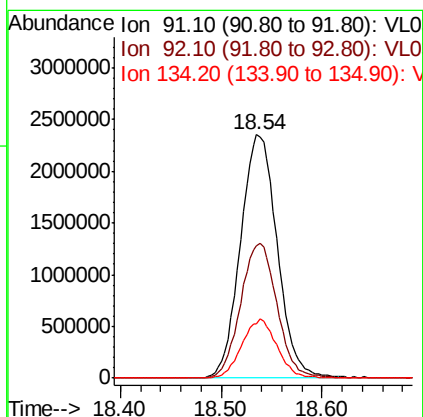
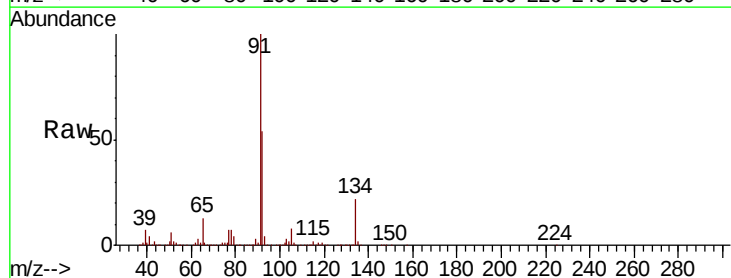
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 119 | 100   |       |       |
| 134 | 25.8  | 20.4  | 30.6  |
| 91  | 27.6  | 24.2  | 36.4  |

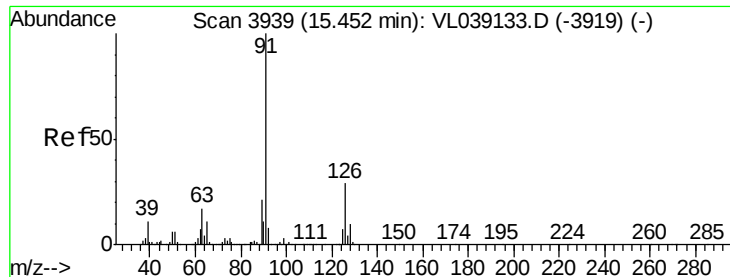


#70  
 n-Butylbenzene  
 Concen: 8.122 ppbv  
 RT: 18.54 min Scan# 4898  
 Delta R.T. -0.02 min  
 Lab File: VL039204.D  
 Acq: 7 Jun 2022 11:12

Tgt Ion: 91 Resp: 5930128

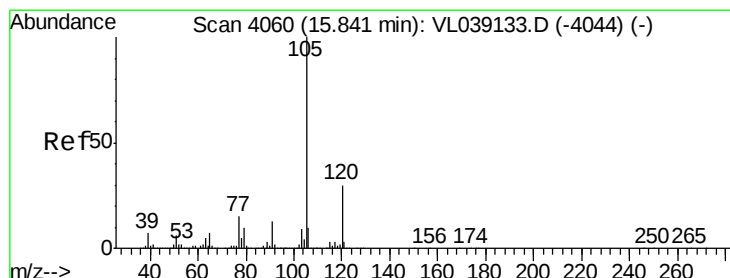
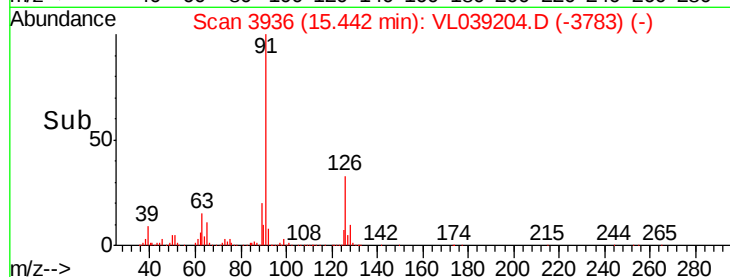
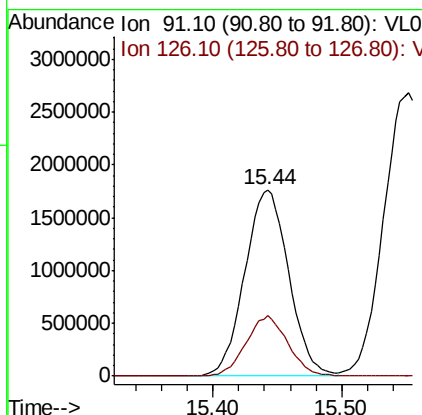
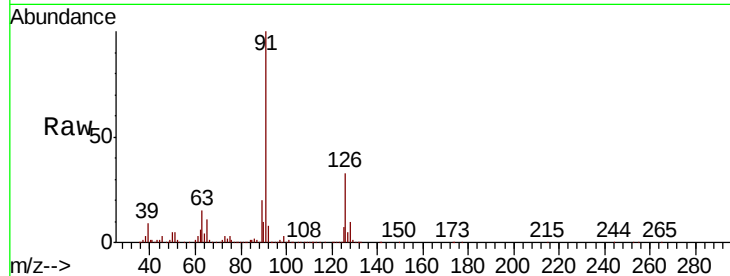
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 91  | 100   |       |       |
| 92  | 55.2  | 43.6  | 65.4  |
| 134 | 23.3  | 17.7  | 26.5  |





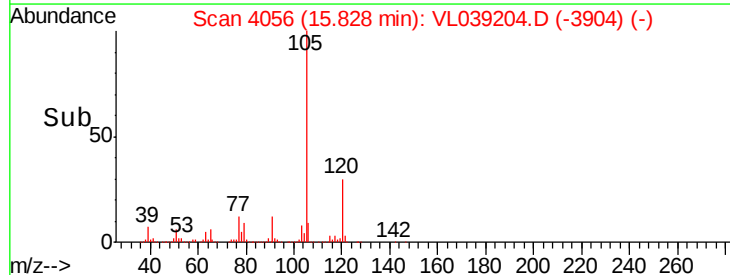
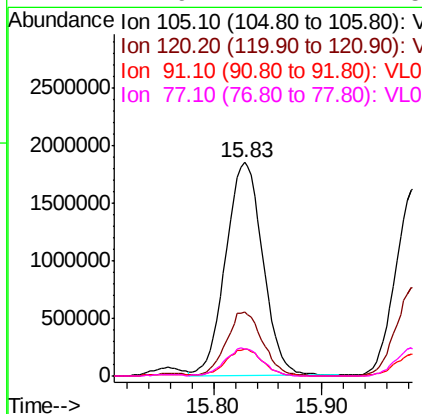
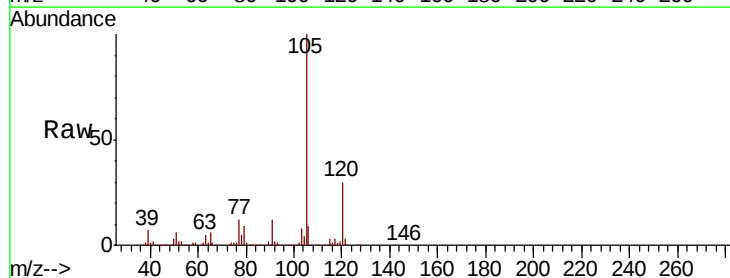
#71  
2-Chlorotoluene  
Concen: 8.109 ppbv  
RT: 15.44 min Scan# 3936  
Delta R.T. -0.01 min  
Lab File: VL039204.D  
Acq: 7 Jun 2022 11:12

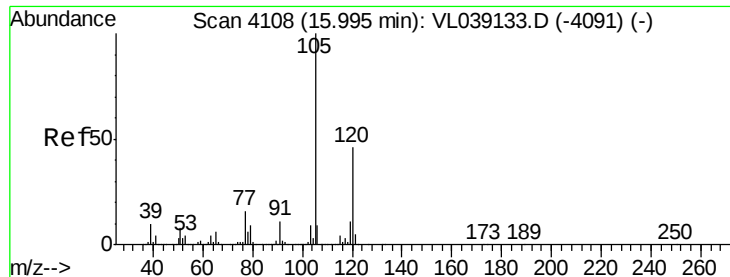
Tot Ion: 91 Resp: 4178703  
Ion Ratio Lower Upper  
91 100  
126 31.2 12.2 48.6



#72  
4-Ethyltoluene  
Concen: 8.324 ppbv  
RT: 15.83 min Scan# 4056  
Delta R.T. -0.01 min  
Lab File: VL039204.D  
Acq: 7 Jun 2022 11:12

Tgt Ion: 105 Resp: 4435366  
Ion Ratio Lower Upper  
105 100  
120 29.4 23.9 35.9  
91 12.3 10.6 16.0  
77 12.9 11.7 17.5





#73

1,3,5-Trimethylbenzene

Concen: 8.116 ppbv

RT: 15.99 min Scan# 4105

Delta R.T. -0.01 min

Lab File: VL039204.D

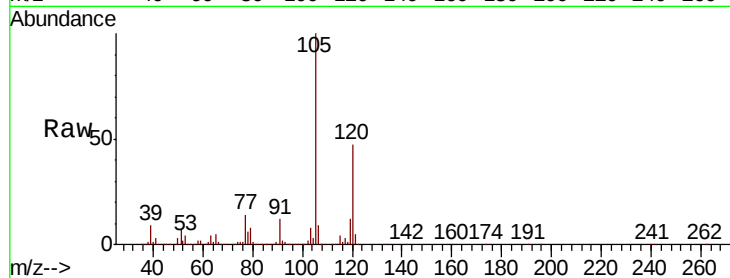
Acq: 7 Jun 2022 11:12

Tot Ion:105 Resp: 3900628

Ion Ratio Lower Upper

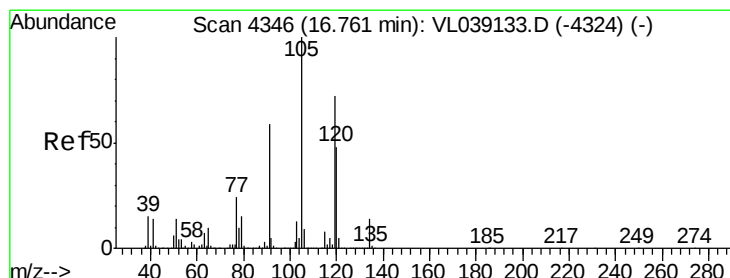
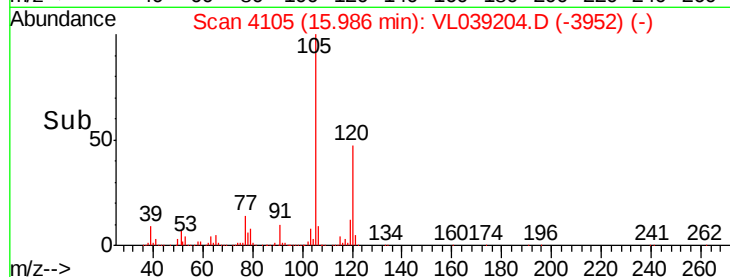
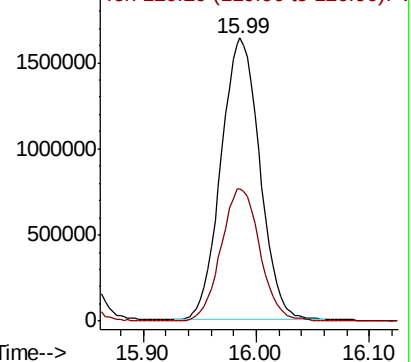
105 100

120 46.5 36.7 55.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 7.751 ppbv

RT: 16.75 min Scan# 4343

Delta R.T. -0.01 min

Lab File: VL039204.D

Acq: 7 Jun 2022 11:12

Tgt Ion:105 Resp: 4157352

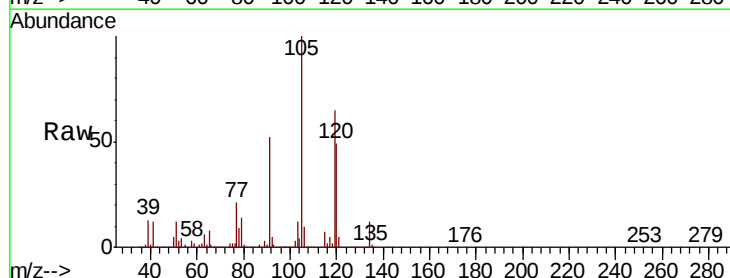
Ion Ratio Lower Upper

105 100

120 49.3 38.1 57.1

91 52.3 47.4 71.0

77 21.2 19.5 29.3

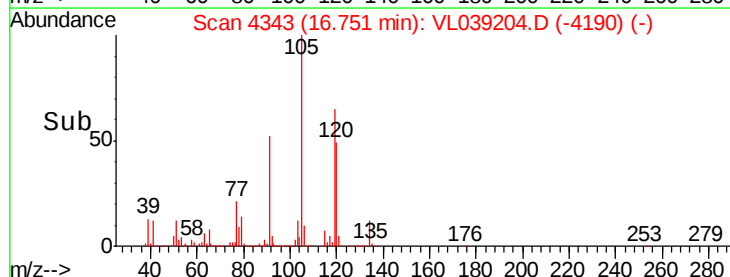
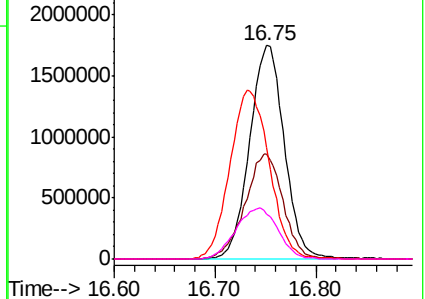


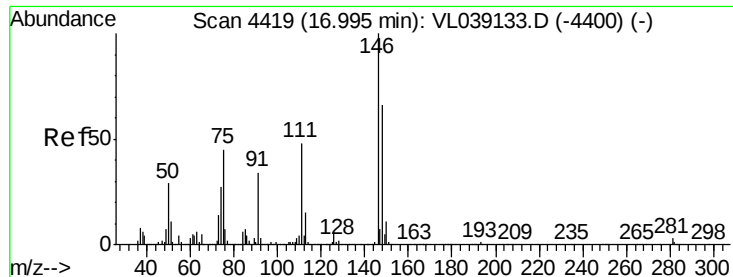
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#75

1,3-Dichlorobenzene

Concen: 8.150 ppbv

RT: 16.98 min Scan# 4415

Delta R.T. -0.01 min

Lab File: VL039204.D

Acq: 7 Jun 2022 11:12

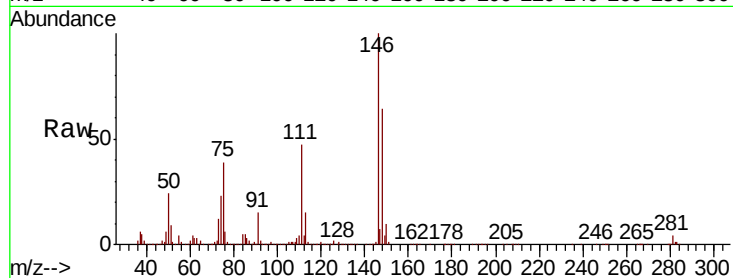
Tot Ion:146 Resp: 2474149

Ion Ratio Lower Upper

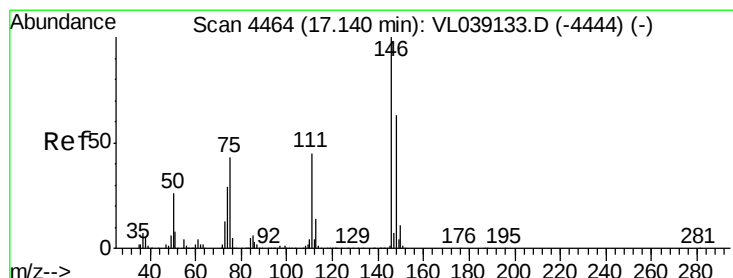
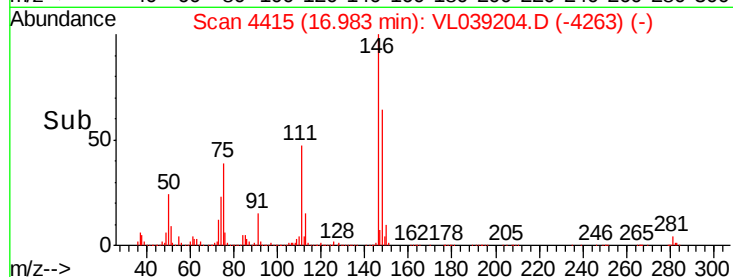
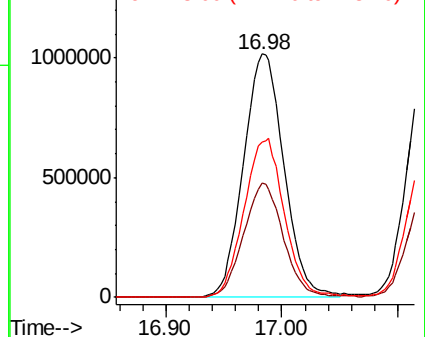
146 100

111 45.9 23.8 71.4

148 65.2 32.4 97.0



Abundance Ion 146.00 (145.70 to 146.70): V  
Ion 111.10 (110.80 to 111.80): V  
Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 8.025 ppbv

RT: 17.12 min Scan# 4459

Delta R.T. -0.02 min

Lab File: VL039204.D

Acq: 7 Jun 2022 11:12

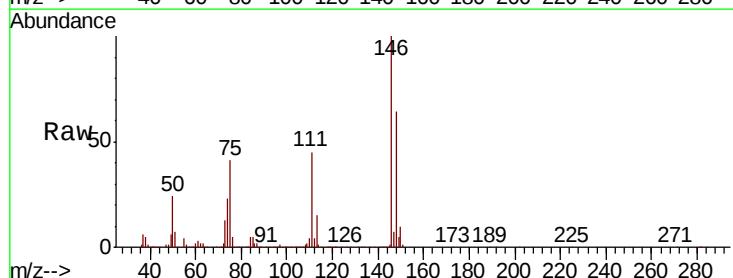
Tgt Ion:146 Resp: 2430585

Ion Ratio Lower Upper

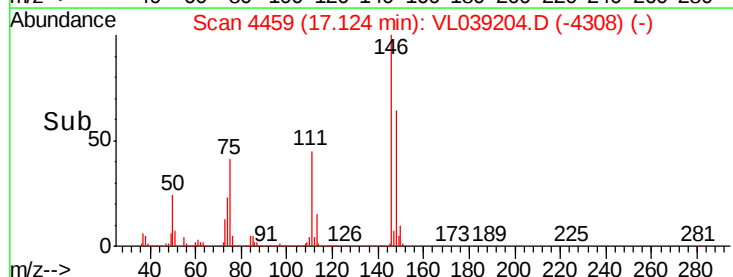
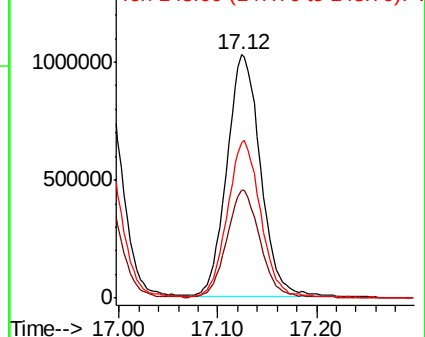
146 100

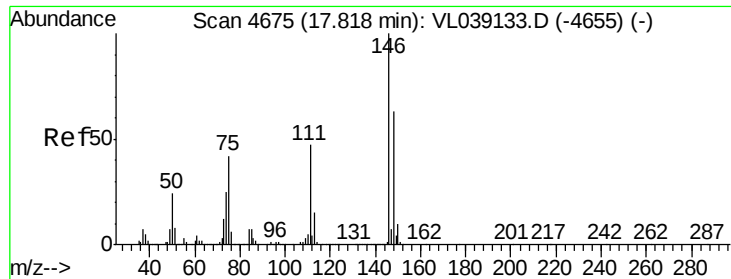
111 45.7 23.6 71.0

148 64.5 33.7 101.0



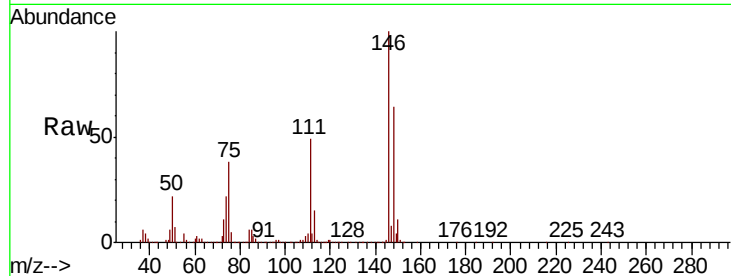
Abundance Ion 146.00 (145.70 to 146.70): V  
Ion 111.10 (110.80 to 111.80): V  
Ion 148.00 (147.70 to 148.70): V



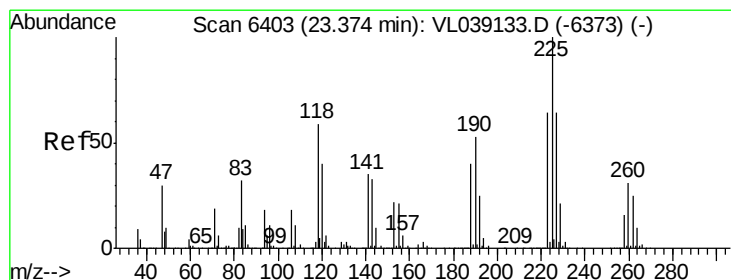
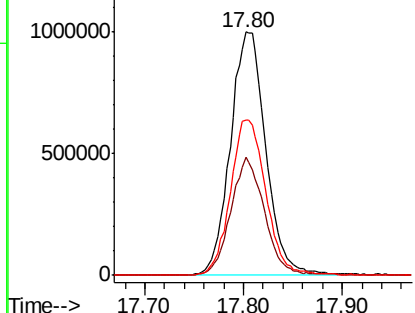
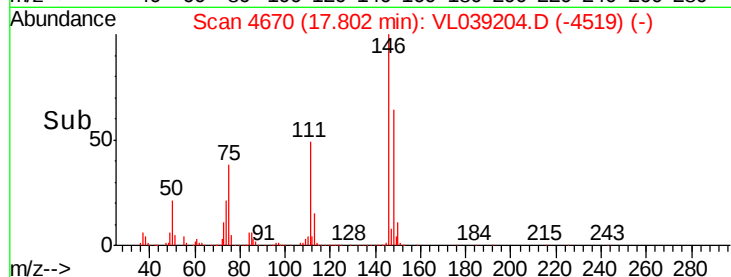


#77  
 1,2-Dichlorobenzene  
 Concen: 8.080 ppbv  
 RT: 17.80 min Scan# 4670  
 Delta R.T. -0.02 min  
 Lab File: VL039204.D  
 Acq: 7 Jun 2022 11:12

Tot Ion:146 Resp: 2472091  
 Ion Ratio Lower Upper  
 146 100  
 111 47.0 24.4 73.4  
 148 64.2 32.1 96.5

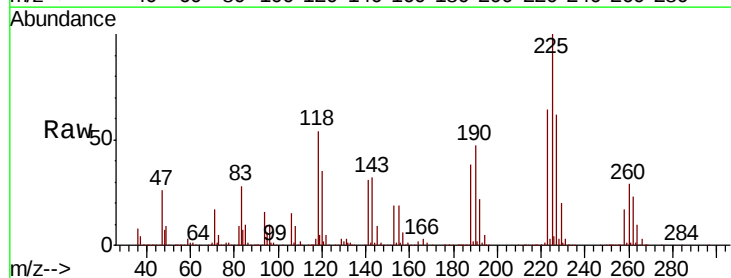


Abundance Ion 146.00 (145.70 to 146.70): V  
 Ion 111.10 (110.80 to 111.80): V  
 Ion 148.00 (147.70 to 148.70): V

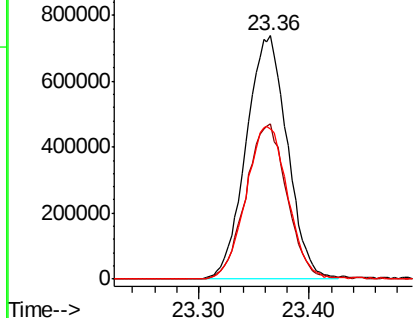
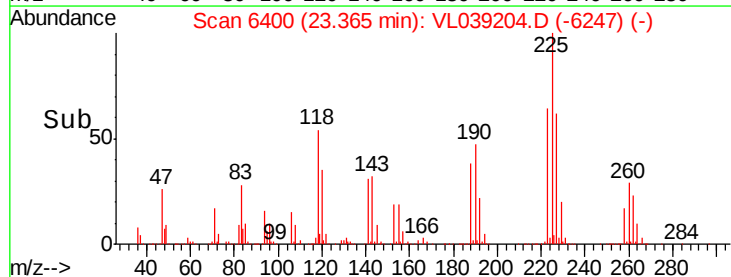


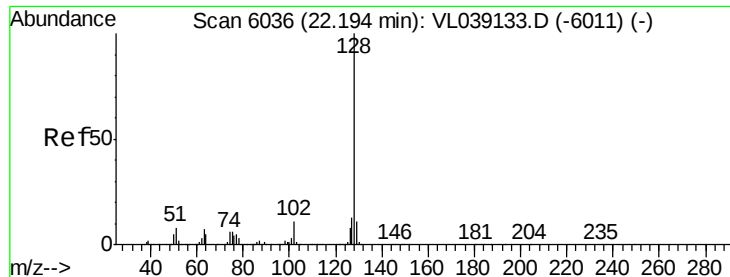
#78  
 Hexachloro-1,3-Butadiene  
 Concen: 6.823 ppbv  
 RT: 23.36 min Scan# 6400  
 Delta R.T. -0.01 min  
 Lab File: VL039204.D  
 Acq: 7 Jun 2022 11:12

Tgt Ion:225 Resp: 1909079  
 Ion Ratio Lower Upper  
 225 100  
 223 64.1 51.4 77.0  
 227 64.6 50.6 75.8



Abundance Ion 224.90 (224.60 to 225.60): V  
 Ion 222.90 (222.60 to 223.60): V  
 Ion 226.90 (226.60 to 227.60): V

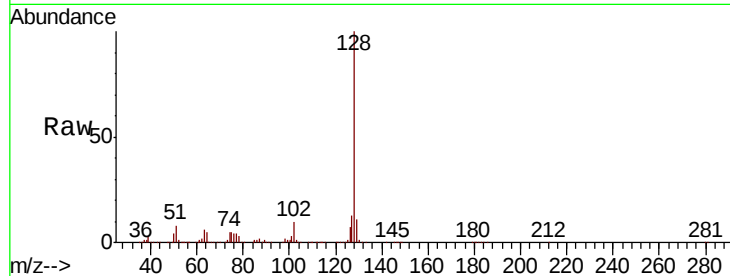




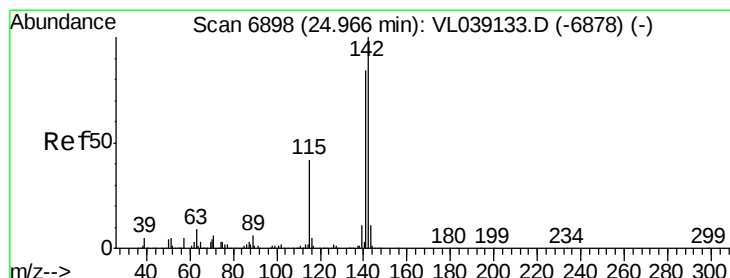
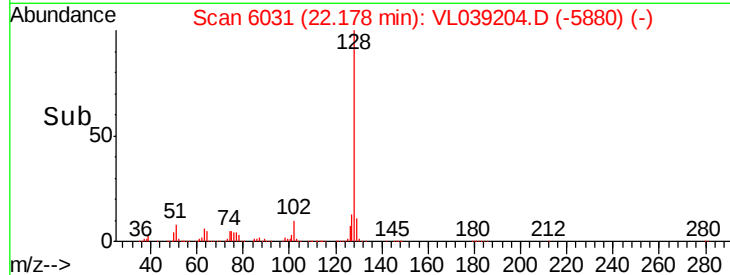
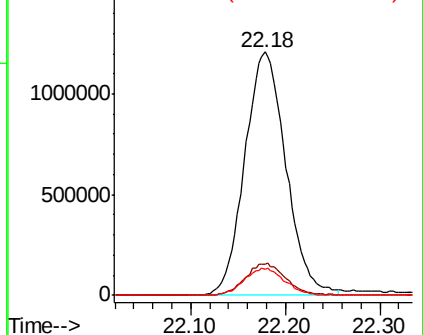
#79  
Naphthalene  
Concen: 8.853 ppbv  
RT: 22.18 min Scan# 6031  
Delta R.T. -0.02 min  
Lab File: VL039204.D  
Acq: 7 Jun 2022 11:12

Tot Ion:128 Resp: 3655273

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 127 | 12.7  | 10.4  | 15.6  |
| 129 | 10.9  | 9.0   | 13.6  |



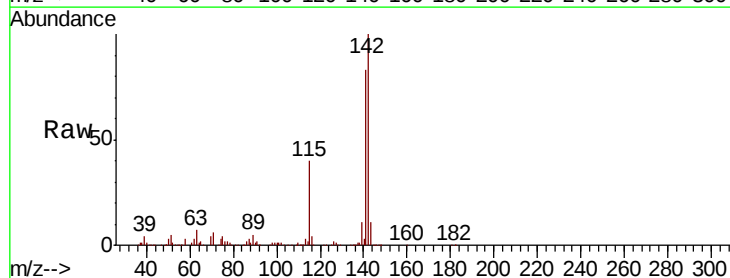
Abundance Ion 128.10 (127.80 to 128.80): V  
Ion 127.10 (126.80 to 127.80): V  
Ion 129.10 (128.80 to 129.80): V



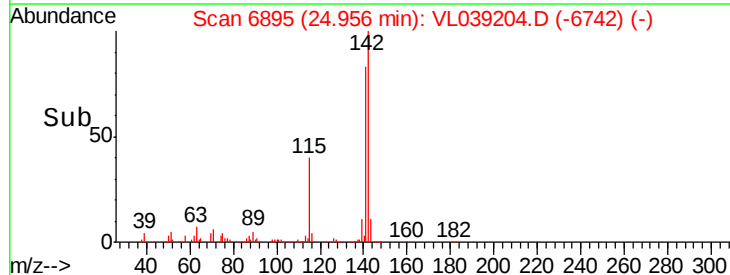
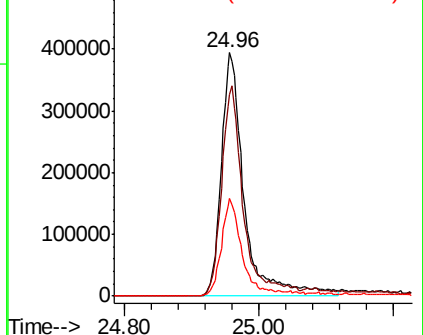
#80  
Naphthalene, 2-methyl-  
Concen: 6.129 ppbv  
RT: 24.96 min Scan# 6895  
Delta R.T. -0.01 min  
Lab File: VL039204.D  
Acq: 7 Jun 2022 11:12

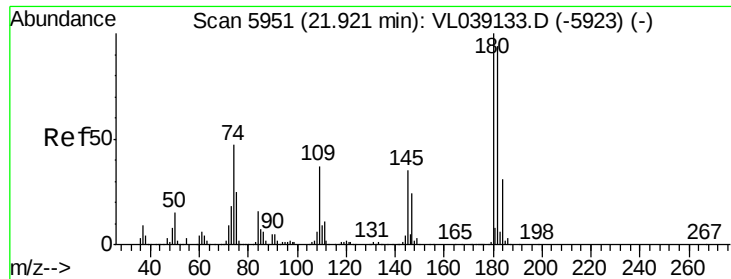
Tgt Ion:142 Resp: 940196

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 142 | 100   |       |       |
| 141 | 87.2  | 64.6  | 96.8  |
| 115 | 37.3  | 32.7  | 49.1  |



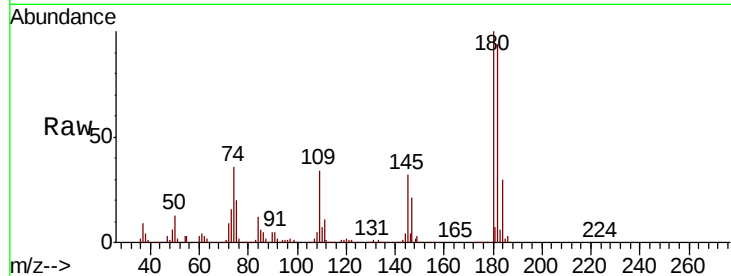
Abundance Ion 142.00 (141.70 to 142.70): V  
Ion 141.00 (140.70 to 141.70): V  
Ion 115.00 (114.70 to 115.70): V





#81  
 1,2,4-Trichlorobenzene  
 Concen: 7.849 ppbv  
 RT: 21.91 min Scan# 5947  
 Delta R.T. -0.01 min  
 Lab File: VL039204.D  
 Acq: 7 Jun 2022 11:12

Tot Ion:180 Resp: 2053047  
 Ion Ratio Lower Upper  
 180 100  
 182 97.0 0.0 0.0#  
 184 31.3 0.0 0.0#



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

