

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_L\DATA\VL021419\  
 Data File : VL033205.D  
 Acq On : 14 Feb 2019 19:38  
 Operator : SY/AP  
 Sample : K1483-02  
 Misc : 400ml/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 15 04:18:20 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL020519AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Feb 06 09:13:11 2019

QLast Update : Wed Feb 06 09:13:11 2019

Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.77  | 49   | 983539   | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.30  | 114  | 2129987  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.24 | 117  | 2187730  | 10.00 | ppbv  | 0.00     |

#### System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.58  | 95    | 1734775  | 10.30    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 103.00% |

#### Target Compounds

|                                |       |     |          |         |        | Qvalue |
|--------------------------------|-------|-----|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane     | 3.08  | 85  | 66014    | 0.351   | ppbv   | 97     |
| 3) Chlorodifluoromethane       | 3.01  | 51  | 41420    | 0.350   | ppbv   | 98     |
| 4) Chloromethane               | 3.17  | 50  | 20874    | 0.334   | ppbv # | 79     |
| 7) Chloroethane                | 3.60  | 64  | 279726   | 13.104  | ppbv   | 99     |
| 9) Propene                     | 3.24  | 41  | 91855    | 1.606   | ppbv   | 89     |
| 10) Heptane                    | 8.26  | 43  | 10023    | 0.058   | ppbv # | 28     |
| 11) Trichlorofluoromethane     | 4.00  | 101 | 185549   | 1.219   | ppbv   | 100    |
| 12) 1,1,2-Trichlorotrifluoroet | 4.55  | 101 | 517162   | 4.902   | ppbv   | 99     |
| 13) Ethanol                    | 3.65  | 45  | 104248   | 5.465   | ppbv   | 99     |
| 15) Acetone                    | 3.91  | 43  | 841556   | 7.595   | ppbv   | 92     |
| 16) 1,3-Butadiene              | 3.39  | 39  | 54163    | 1.030   | ppbv # | 10     |
| 17) tert-Butyl alcohol         | 4.36  | 59  | 11053    | 0.523   | ppbv # | 74     |
| 18) 1,1-Dichloroethene         | 4.35  | 96  | 303134   | 6.419   | ppbv   | 100    |
| 19) Isopropyl Alcohol          | 4.03  | 45  | 780342   | 10.383  | ppbv   | 100    |
| 20) Methylene Chloride         | 4.41  | 84  | 105285   | 2.389   | ppbv   | 93     |
| 22) trans-1,2-Dichloroethene   | 4.96  | 96  | 6605     | 0.144   | ppbv   | 87     |
| 23) Vinyl Acetate              | 5.18  | 43  | 30670    | 0.160   | ppbv # | 39     |
| 24) 1,1-Dichloroethane         | 5.09  | 63  | 10408316 | 76.623  | ppbv   | 96     |
| 25) Ethyl Acetate              | 5.78  | 43  | 103914   | 0.417   | ppbv # | 79     |
| 26) Hexane                     | 5.78  | 57  | 141277   | 1.208   | ppbv # | 42     |
| 29) Chloroform                 | 5.85  | 83  | 38114    | 0.213   | ppbv   | 90     |
| 30) Cyclohexane                | 7.26  | 84  | 4418     | 0.041   | ppbv # | 1      |
| 31) cis-1,2-Dichloroethene     | 5.64  | 61  | 18590    | 0.159   | ppbv   | 86     |
| 32) 1,1,1-Trichloroethane      | 6.63  | 97  | 24526430 | 124.273 | ppbv # | 83     |
| 34) 2-Butanone                 | 5.35  | 43  | 59074    | 0.437   | ppbv   | 99     |
| 36) Benzene                    | 7.01  | 78  | 55665    | 0.258   | ppbv   | 99     |
| 37) 1,2-Dichloroethane         | 6.42  | 62  | 63910    | 0.534   | ppbv # | 82     |
| 38) Trichloroethene            | 7.97  | 130 | 53381    | 0.577   | ppbv # | 91     |
| 39) 1,2-Dichloropropane        | 7.30  | 63  | 576007   | 6.756   | ppbv # | 25     |
| 44) 2,2,4-Trimethylpentane     | 7.99  | 57  | 131286   | 0.359   | ppbv # | 90     |
| 47) 1,1,2-Trichloroethane      | 9.62  | 97  | 34966    | 0.395   | ppbv   | 97     |
| 52) Tetrachloroethene          | 11.37 | 164 | 143113   | 1.726   | ppbv   | 95     |
| 53) Toluene                    | 9.95  | 91  | 262039   | 1.025   | ppbv   | 98     |
| 58) Ethyl Benzene              | 12.86 | 91  | 117389   | 0.332   | ppbv   | 91     |
| 59) m/p-Xylene                 | 13.12 | 91  | 515957   | 1.746   | ppbv # | 100    |
| 60) o-Xylene                   | 13.85 | 91  | 139870   | 0.487   | ppbv   | 95     |
| 72) 4-Ethyltoluene             | 16.00 | 105 | 16187    | 0.049   | ppbv # | 59     |
| 73) 1,3,5-Trimethylbenzene     | 16.15 | 105 | 12731    | 0.040   | ppbv # | 65     |
| 74) 1,2,4-Trimethylbenzene     | 16.92 | 105 | 76308    | 0.232   | ppbv # | 81     |
| 80) Naphthalene,2-methyl-      | 25.11 | 142 | 6729     | 0.038   | ppbv # | 93     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_L\DATA\VL021419\  
Data File : VL033205.D  
Acq On : 14 Feb 2019 19:38  
Operator : SY/AP  
Sample : K1483-02  
Misc : 400ml/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

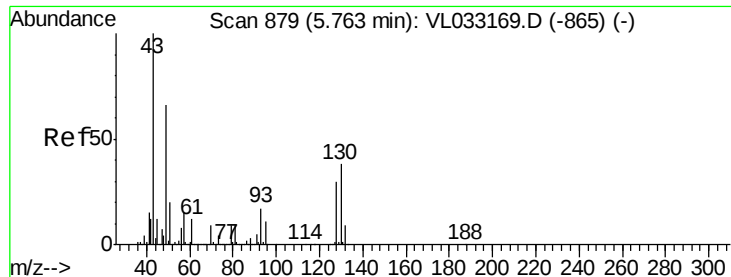
Quant Time: Feb 15 04:18:20 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL020519AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Feb 06 09:13:11 2019  
QLast Update : Wed Feb 06 09:13:11 2019  
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 881

Delta R.T. 0.01 min

Lab File: VL033205.D

Acq: 14 Feb 2019 19:38

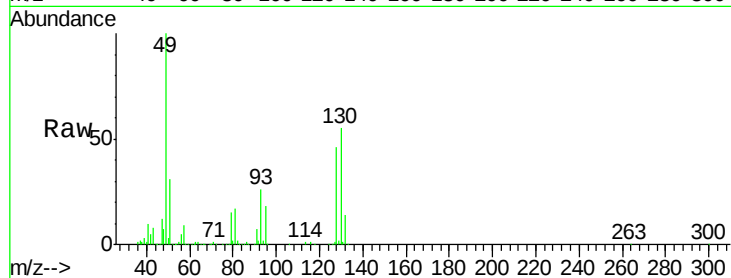
Tgt Ion: 49 Resp: 983539

Ion Ratio Lower Upper

49 100

128 45.7 23.6 71.0

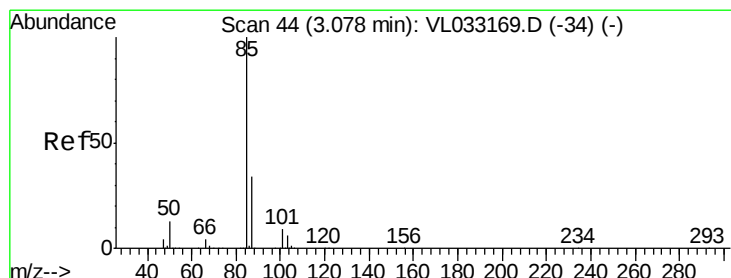
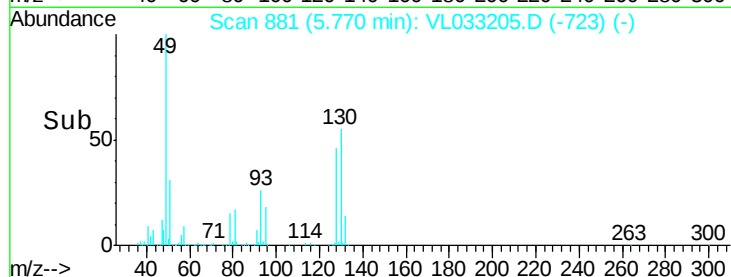
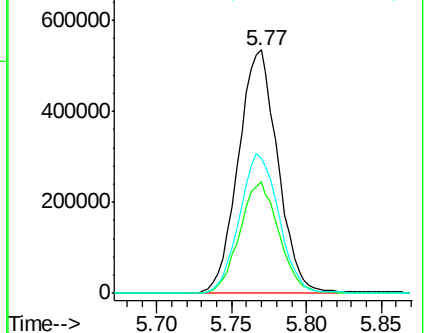
130 57.4 30.3 91.0



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.351 ppbv

RT: 3.08 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033205.D

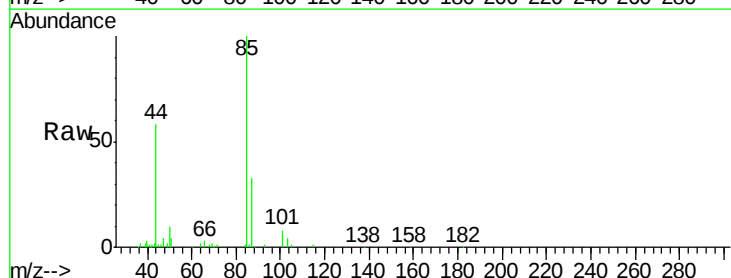
Acq: 14 Feb 2019 19:38

Tgt Ion: 85 Resp: 66014

Ion Ratio Lower Upper

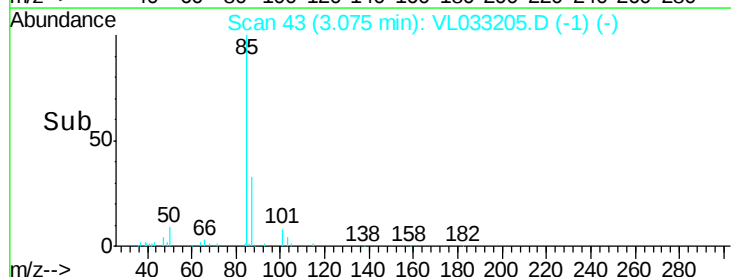
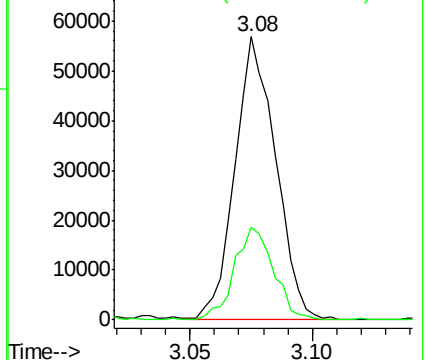
85 100

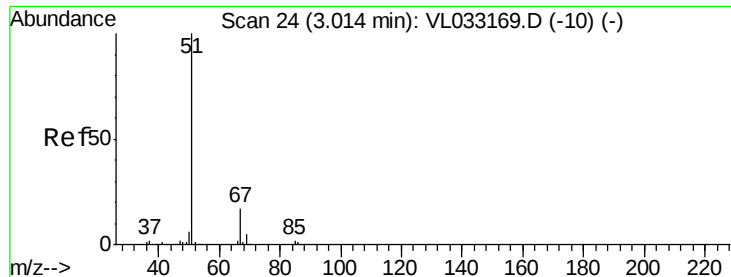
87 32.7 27.4 41.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.350 ppbv

RT: 3.01 min Scan# 23

Delta R.T. -0.00 min

Lab File: VL033205.D

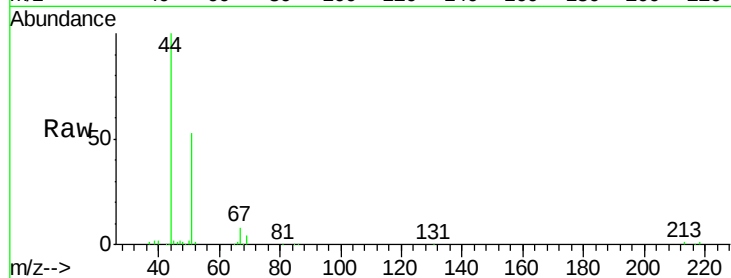
Acq: 14 Feb 2019 19:38

Tgt Ion: 51 Resp: 41420

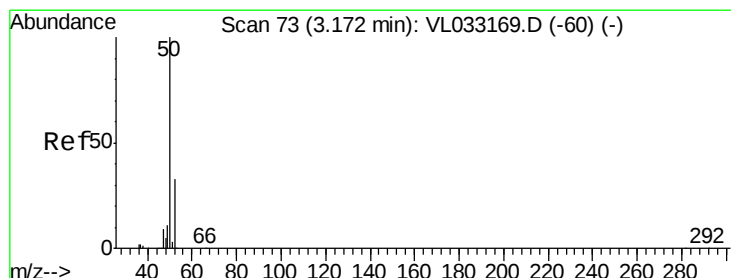
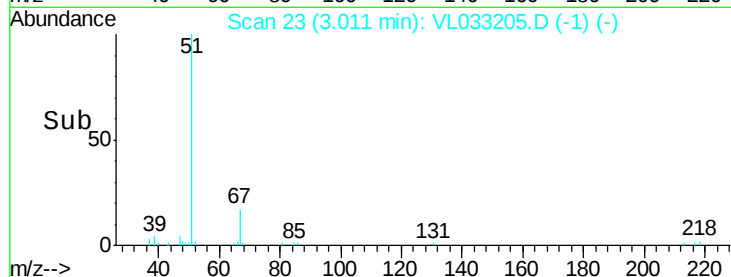
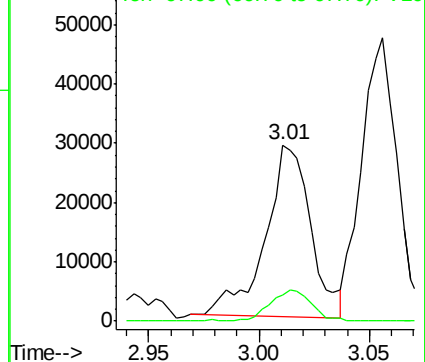
Ion Ratio Lower Upper

51 100

67 16.5 14.0 21.0



Abundance Ion 51.00 (50.70 to 51.70): VL0  
Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.334 ppbv

RT: 3.17 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL033205.D

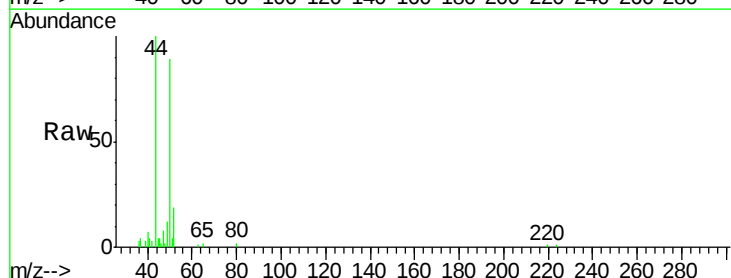
Acq: 14 Feb 2019 19:38

Tgt Ion: 50 Resp: 20874

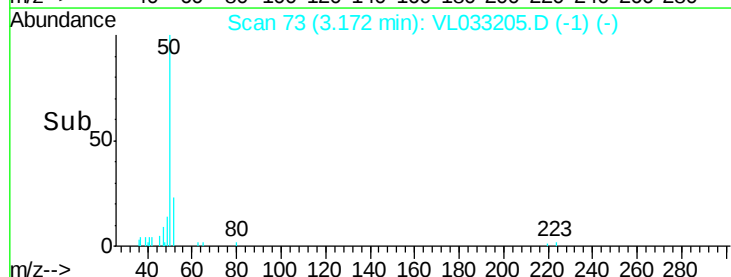
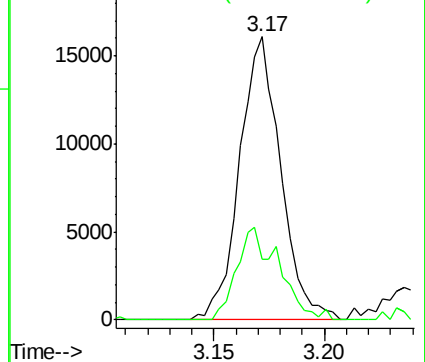
Ion Ratio Lower Upper

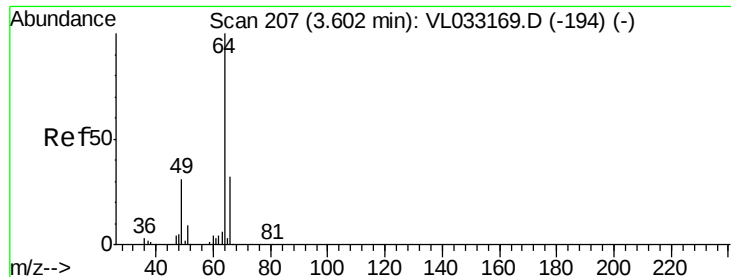
50 100

52 21.4 26.5 39.7#



Abundance Ion 50.10 (49.80 to 50.80): VL0  
Ion 52.10 (51.80 to 52.80): VL0





#7

Chloroethane

Concen: 13.104 ppbv

RT: 3.60 min Scan# 206

Delta R.T. -0.00 min

Lab File: VL033205.D

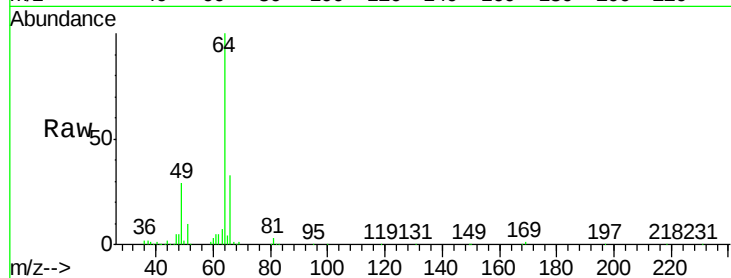
Acq: 14 Feb 2019 19:38

Tgt Ion: 64 Resp: 279726

Ion Ratio Lower Upper

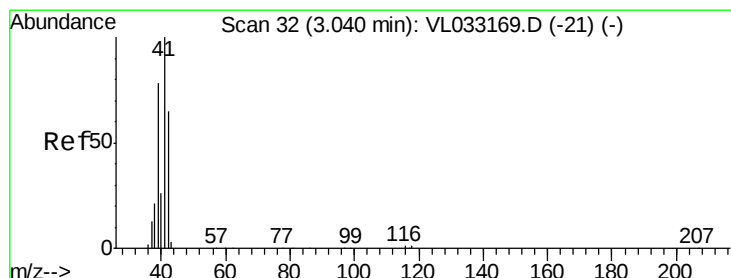
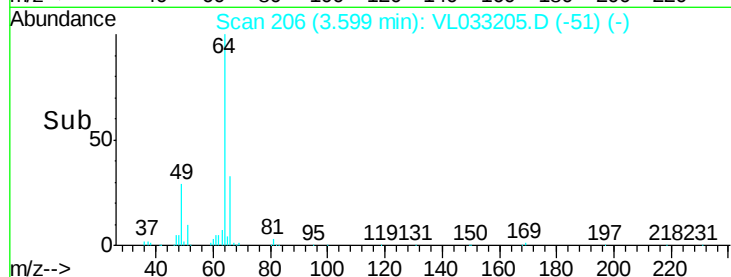
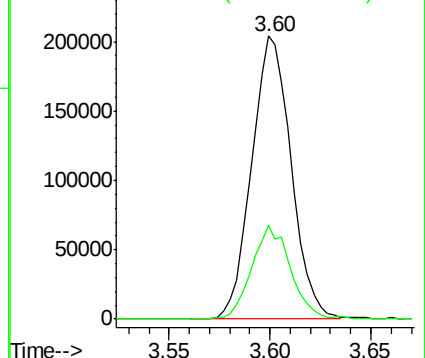
64 100

66 33.2 26.0 39.0



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#9

Propene

Concen: 1.606 ppbv

RT: 3.24 min Scan# 93

Delta R.T. 0.20 min

Lab File: VL033205.D

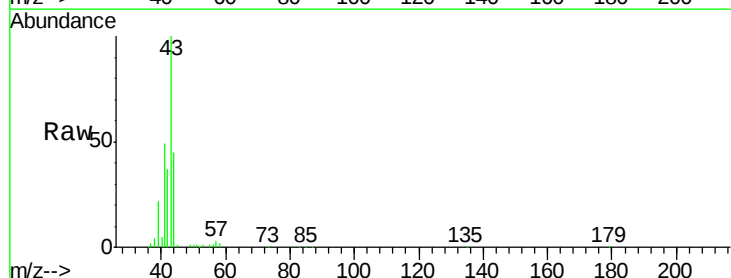
Acq: 14 Feb 2019 19:38

Tgt Ion: 41 Resp: 91855

Ion Ratio Lower Upper

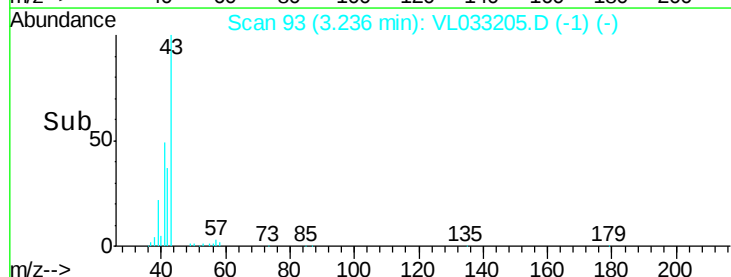
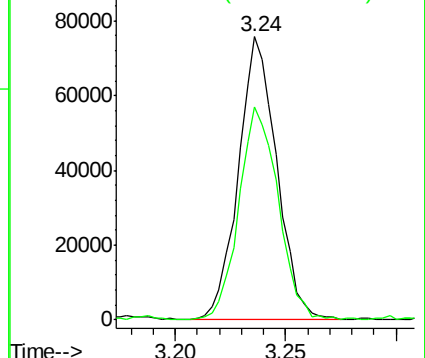
41 100

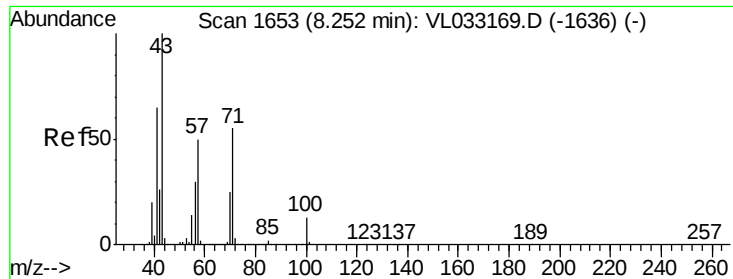
42 77.6 55.0 82.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#10

Heptane

Concen: 0.058 ppbv

RT: 8.26 min Scan# 1655

Delta R.T. 0.01 min

Lab File: VL033205.D

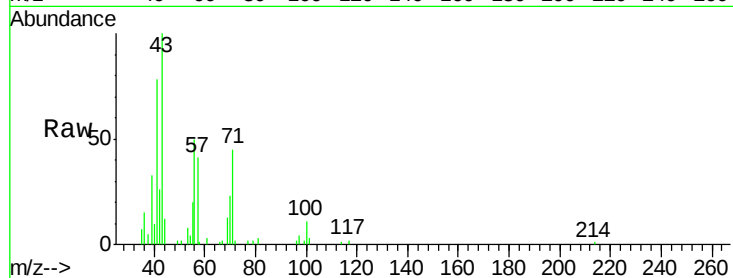
Acq: 14 Feb 2019 19:38

Tgt Ion: 43 Resp: 10023

Ion Ratio Lower Upper

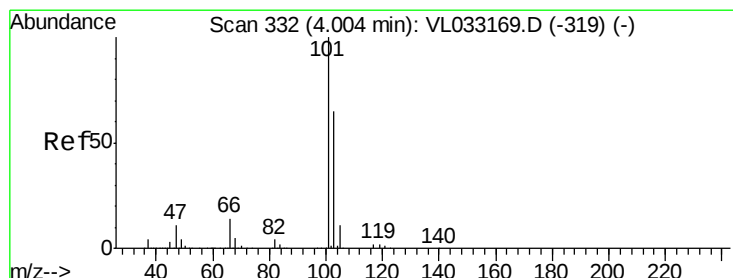
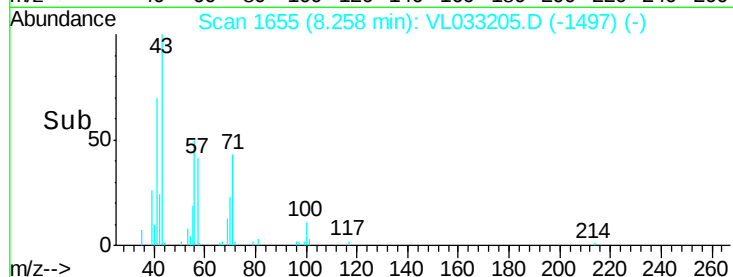
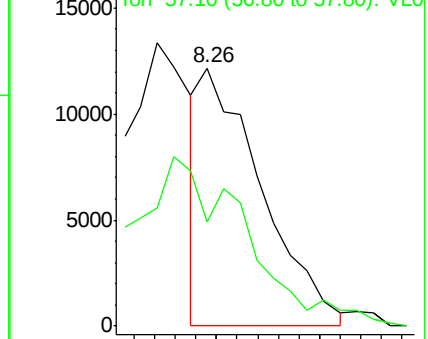
43 100

57 0.0 39.5 59.3#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#11

Trichlorofluoromethane

Concen: 1.219 ppbv

RT: 4.00 min Scan# 332

Delta R.T. 0.00 min

Lab File: VL033205.D

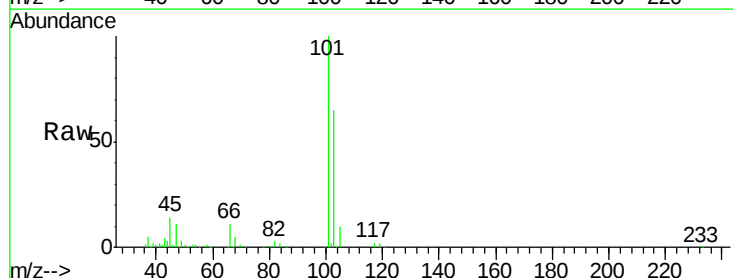
Acq: 14 Feb 2019 19:38

Tgt Ion: 101 Resp: 185549

Ion Ratio Lower Upper

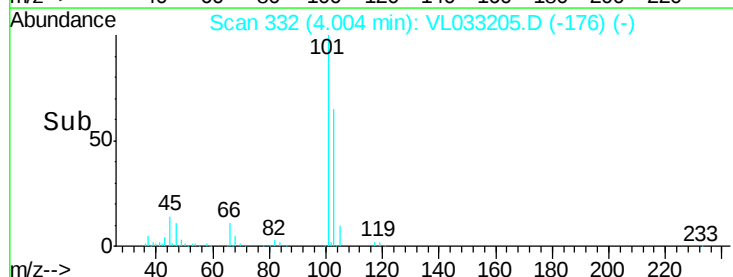
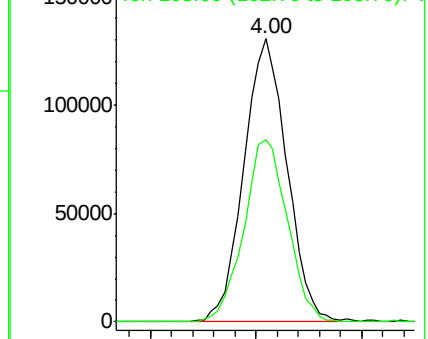
101 100

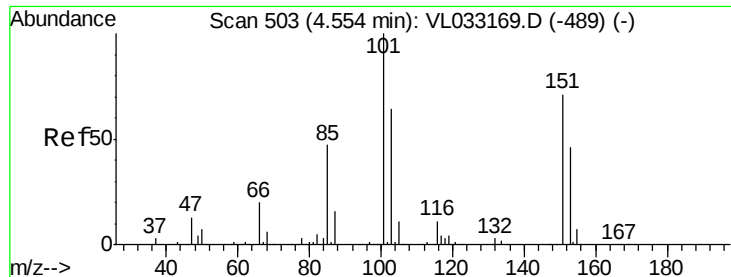
103 64.5 51.7 77.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#12

1,1,2-Trichlorotrifluoroethane

Concen: 4.902 ppbv

RT: 4.55 min Scan# 502

Delta R.T. -0.00 min

Lab File: VL033205.D

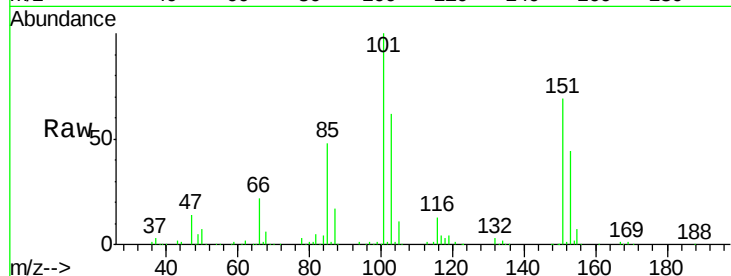
Acq: 14 Feb 2019 19:38

Tgt Ion: 101 Resp: 517162

Ion Ratio Lower Upper

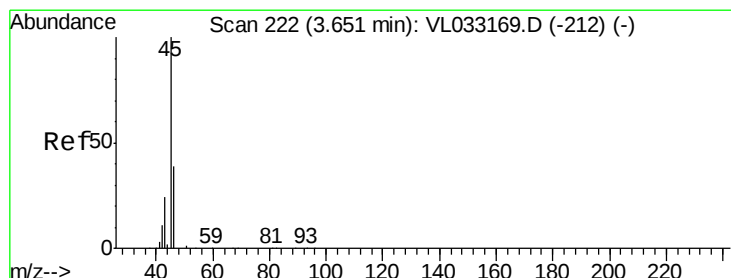
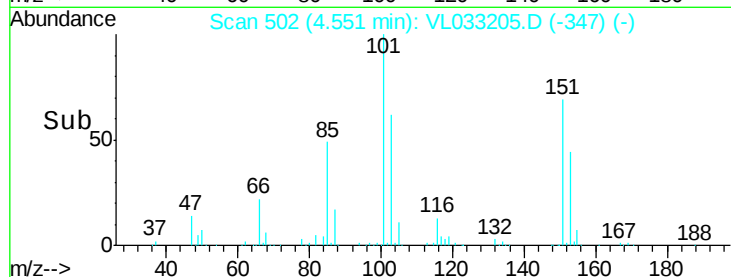
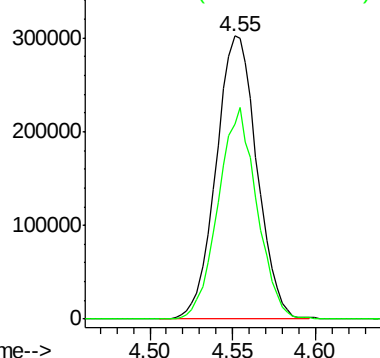
101 100

151 70.8 57.4 86.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 5.465 ppbv

RT: 3.65 min Scan# 223

Delta R.T. 0.00 min

Lab File: VL033205.D

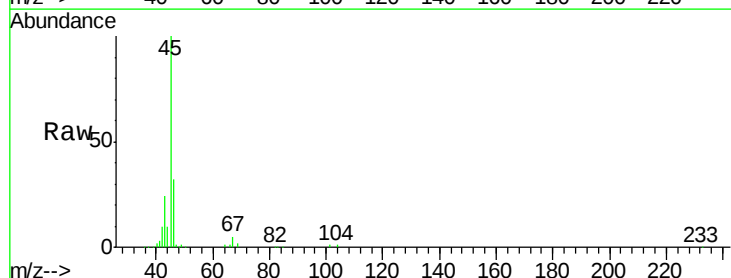
Acq: 14 Feb 2019 19:38

Tgt Ion: 45 Resp: 104248

Ion Ratio Lower Upper

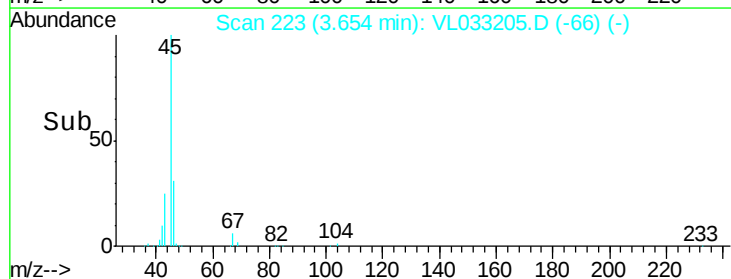
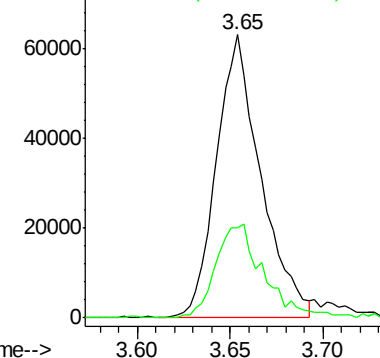
45 100

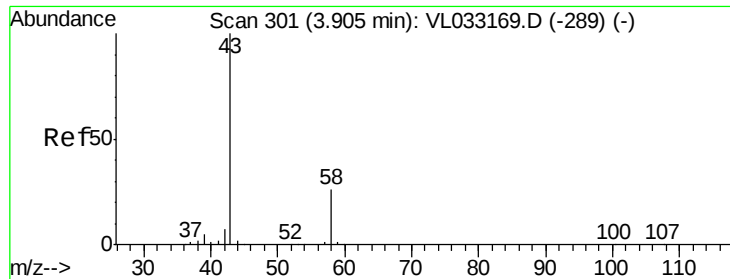
46 37.1 15.0 60.2



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 7.595 ppbv

RT: 3.91 min Scan# 302

Delta R.T. 0.00 min

Lab File: VL033205.D

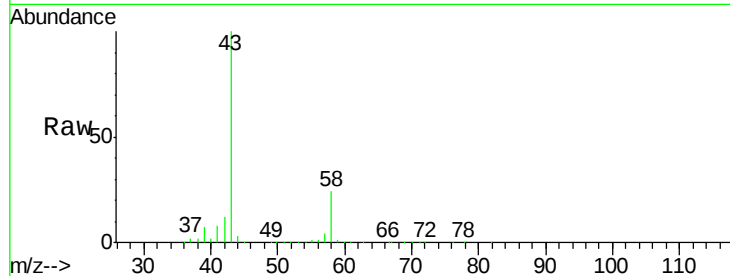
Acq: 14 Feb 2019 19:38

Tgt Ion: 43 Resp: 841556

Ion Ratio Lower Upper

43 100

58 22.2 21.1 31.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.91

400000

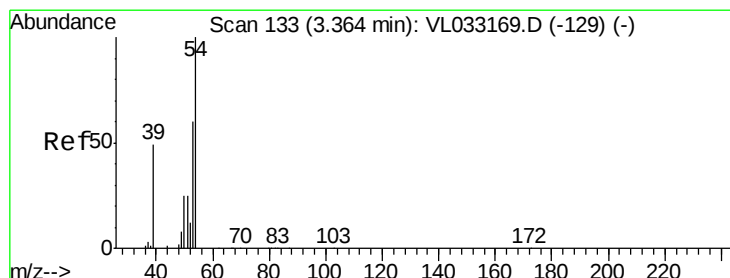
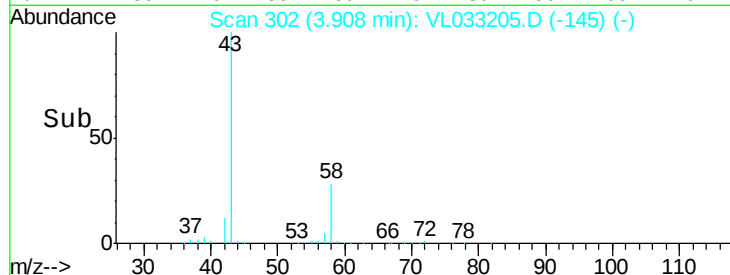
300000

200000

100000

0

Time-->



#16

1,3-Butadiene

Concen: 1.030 ppbv

RT: 3.39 min Scan# 142

Delta R.T. 0.03 min

Lab File: VL033205.D

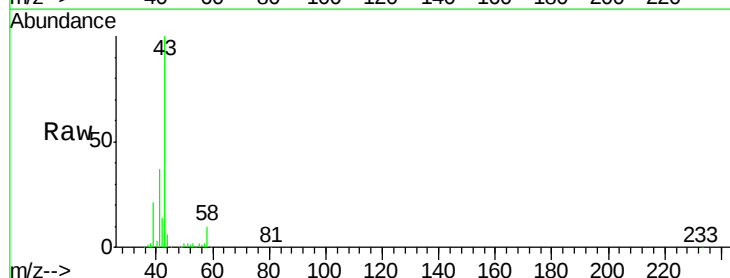
Acq: 14 Feb 2019 19:38

Tgt Ion: 39 Resp: 54163

Ion Ratio Lower Upper

39 100

54 4.5 71.3 106.9#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.39

50000

40000

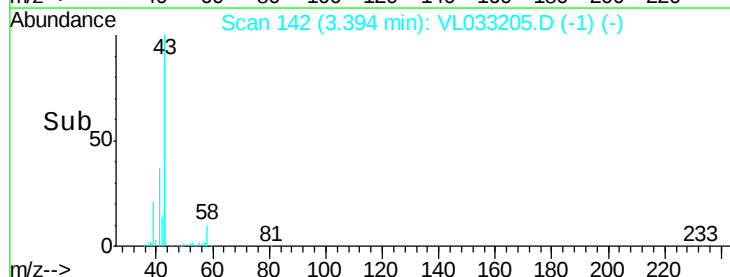
30000

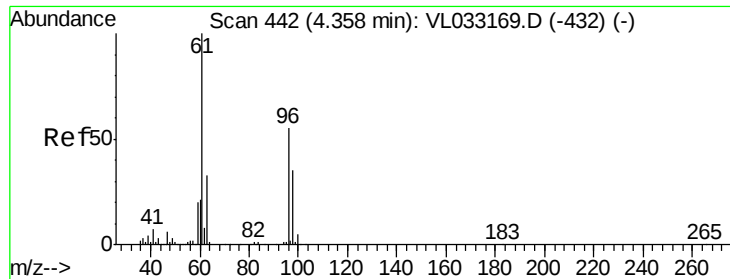
20000

10000

0

Time-->





#17

tert-Butyl alcohol

Concen: 0.523 ppbv

RT: 4.36 min Scan# 443

Delta R.T. 0.00 min

Lab File: VL033205.D

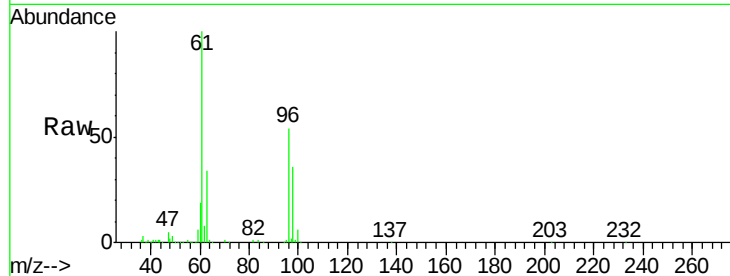
Acq: 14 Feb 2019 19:38

Tgt Ion: 59 Resp: 11053

Ion Ratio Lower Upper

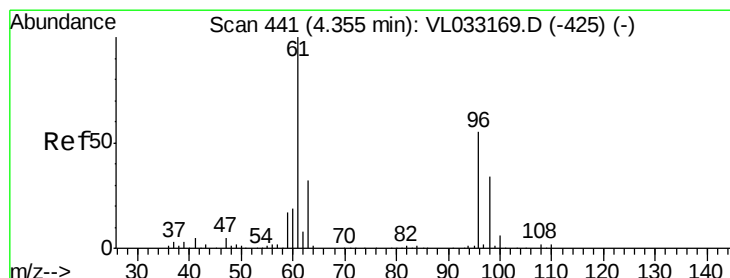
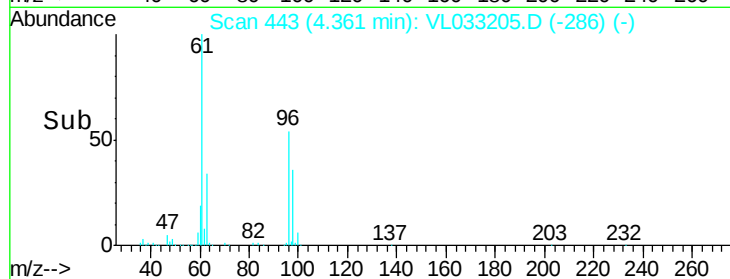
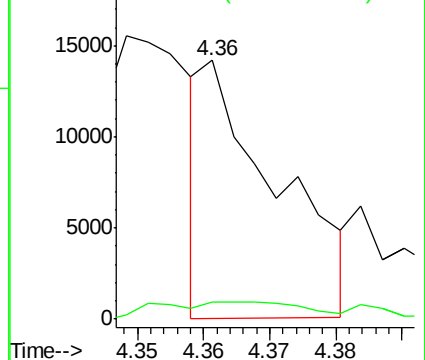
59 100

57 0.0 7.6 11.4#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene

Concen: 6.419 ppbv

RT: 4.35 min Scan# 440

Delta R.T. -0.00 min

Lab File: VL033205.D

Acq: 14 Feb 2019 19:38

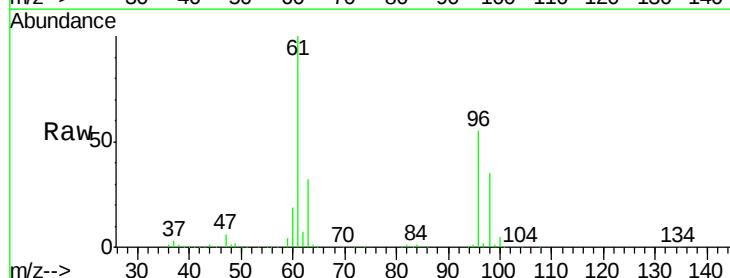
Tgt Ion: 96 Resp: 303134

Ion Ratio Lower Upper

96 100

61 180.8 145.0 217.6

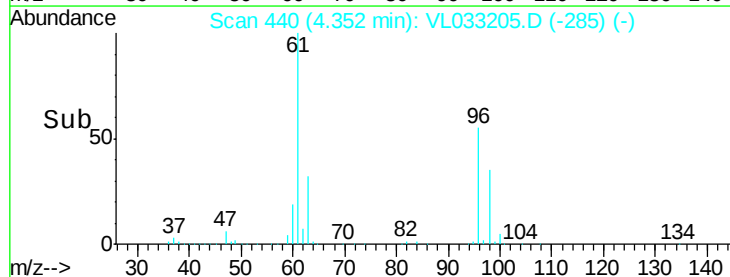
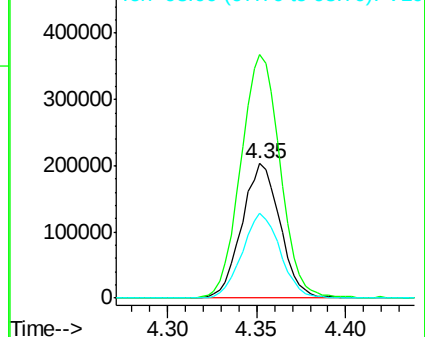
98 62.8 50.0 75.0

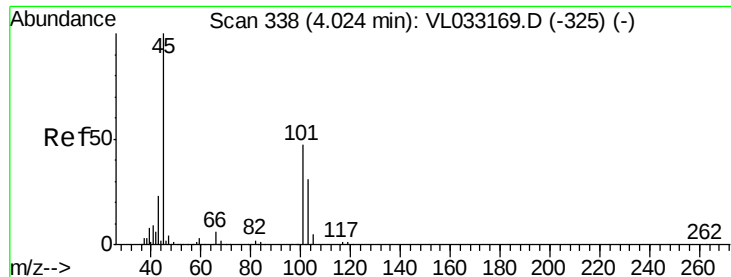


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#19

Isopropyl Alcohol

Concen: 10.383 ppbv

RT: 4.03 min Scan# 339

Delta R.T. 0.00 min

Lab File: VL033205.D

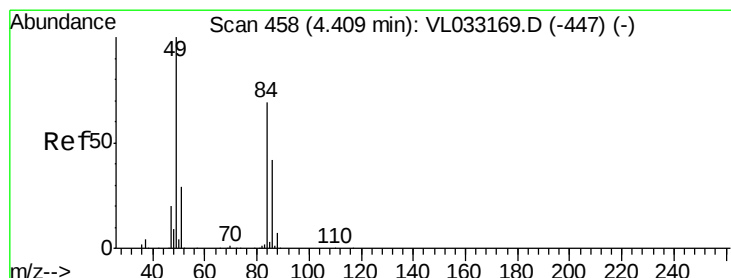
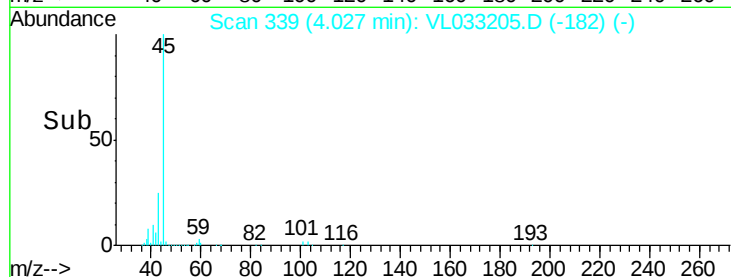
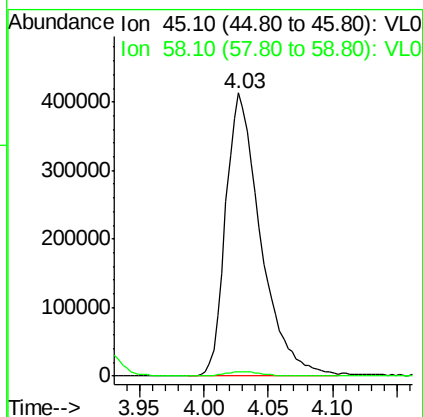
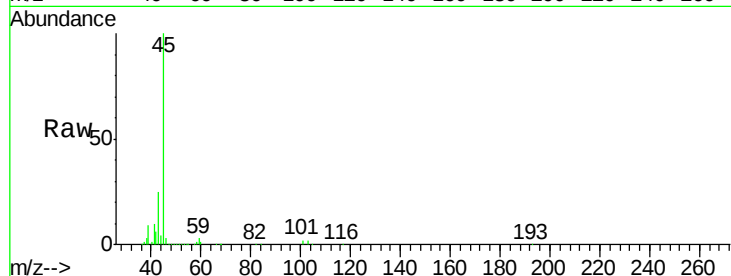
Acq: 14 Feb 2019 19:38

Tgt Ion: 45 Resp: 780342

Ion Ratio Lower Upper

45 100

58 1.8 1.5 2.3



#20

Methylene Chloride

Concen: 2.389 ppbv

RT: 4.41 min Scan# 458

Delta R.T. 0.00 min

Lab File: VL033205.D

Acq: 14 Feb 2019 19:38

Tgt Ion: 84 Resp: 105285

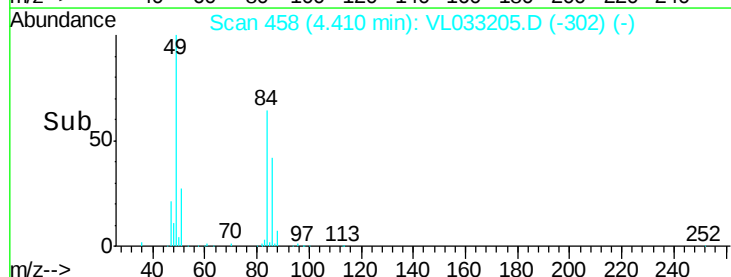
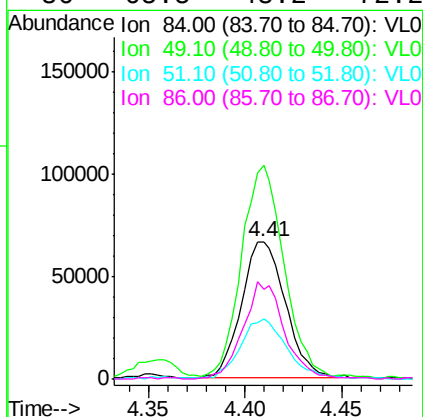
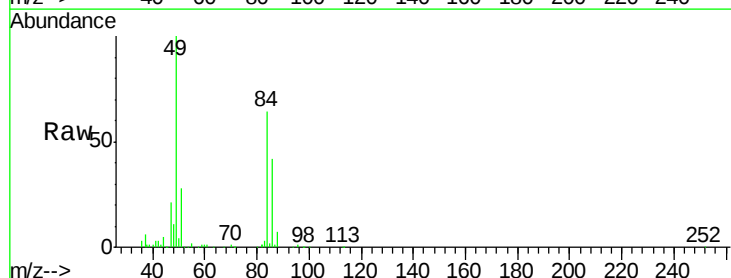
Ion Ratio Lower Upper

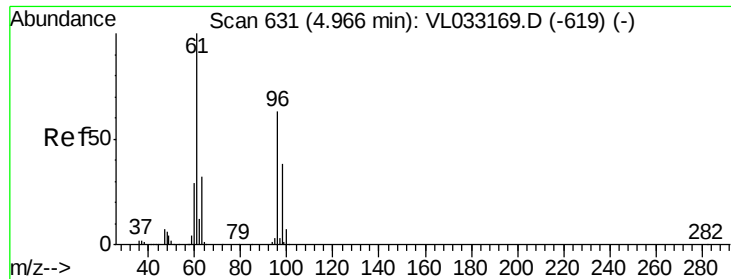
84 100

49 154.5 115.8 173.8

51 43.3 33.0 49.6

86 65.5 48.2 72.2





#22

trans-1,2-Dichloroethene

Concen: 0.144 ppbv

RT: 4.96 min Scan# 630

Delta R.T. -0.00 min

Lab File: VL033205.D

Acq: 14 Feb 2019 19:38

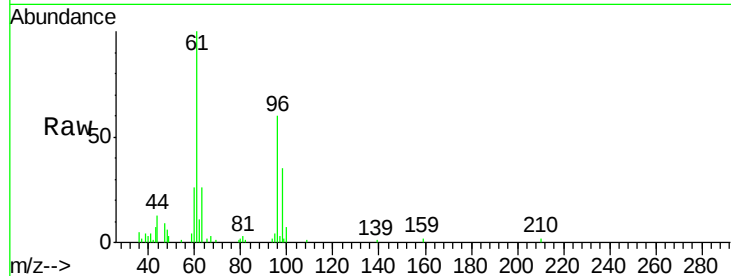
Tgt Ion: 96 Resp: 6605

Ion Ratio Lower Upper

96 100

61 139.1 126.4 189.6

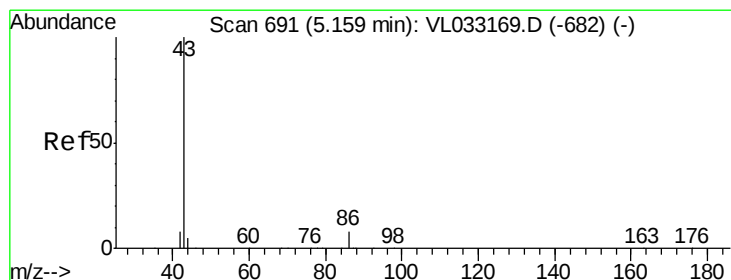
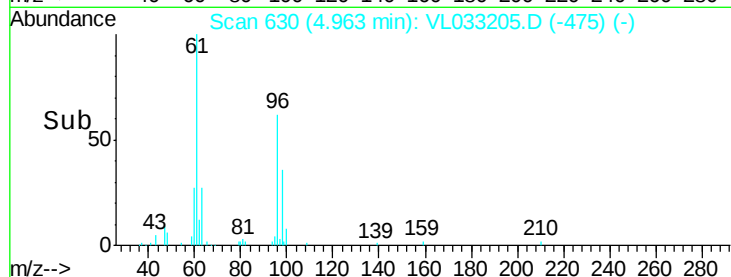
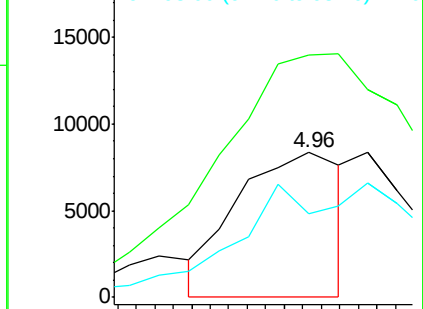
98 54.1 48.4 72.6



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: 0.160 ppbv

RT: 5.18 min Scan# 699

Delta R.T. 0.03 min

Lab File: VL033205.D

Acq: 14 Feb 2019 19:38

Tgt Ion: 43 Resp: 30670

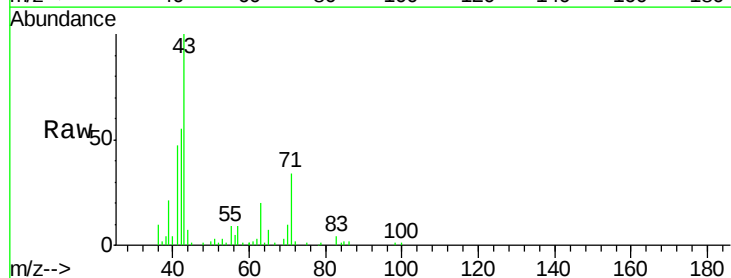
Ion Ratio Lower Upper

43 100

86 0.3 5.8 8.8#

42 52.5 7.4 11.0#

44 1.6 3.7 5.5#

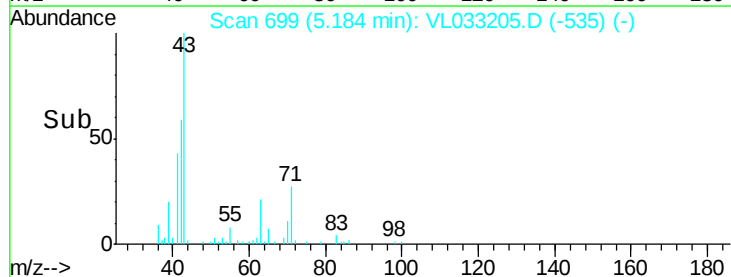
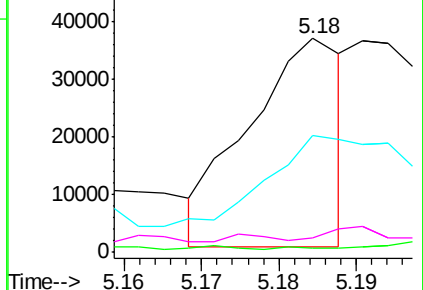


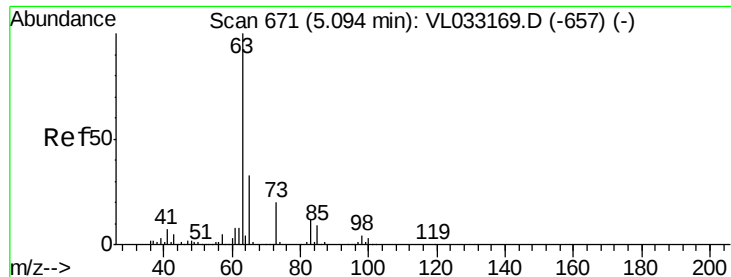
Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 76.623 ppbv

RT: 5.09 min Scan# 671

Delta R.T. 0.00 min

Lab File: VL033205.D

Acq: 14 Feb 2019 19:38

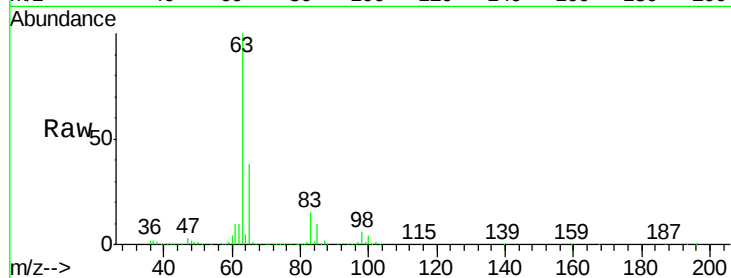
Tgt Ion: 63 Resp:10408316

Ion Ratio Lower Upper

63 100

98 5.9 2.1 6.5

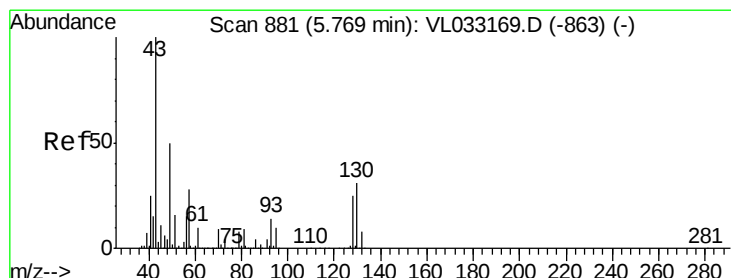
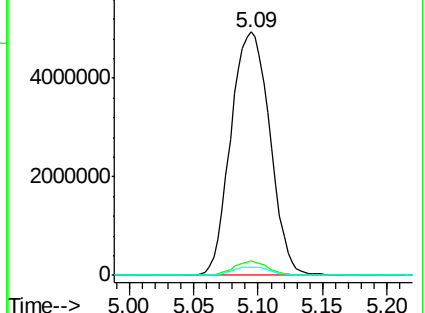
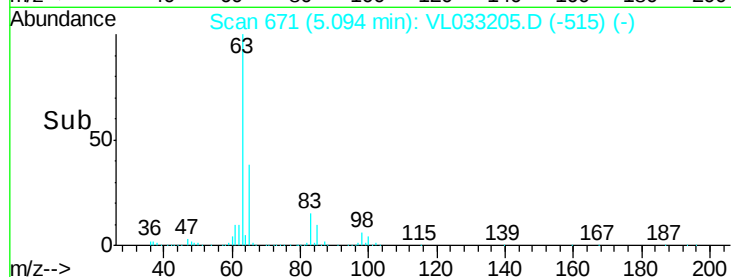
100 3.6 1.4 4.2



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: 0.417 ppbv

RT: 5.78 min Scan# 884

Delta R.T. 0.01 min

Lab File: VL033205.D

Acq: 14 Feb 2019 19:38

Tgt Ion: 43 Resp: 103914

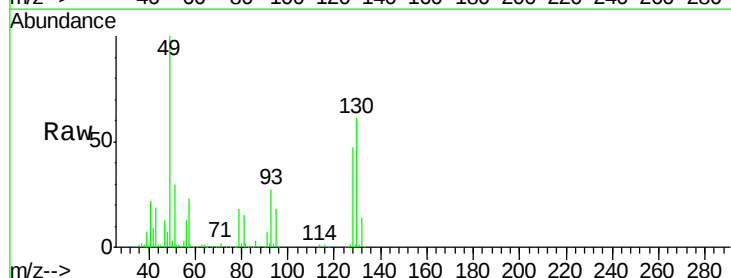
Ion Ratio Lower Upper

43 100

45 2.9 7.9 11.9#

61 0.0 7.5 11.3#

70 1.8 5.8 8.8#

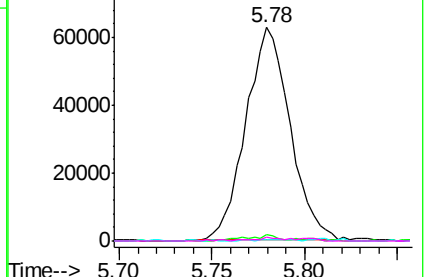
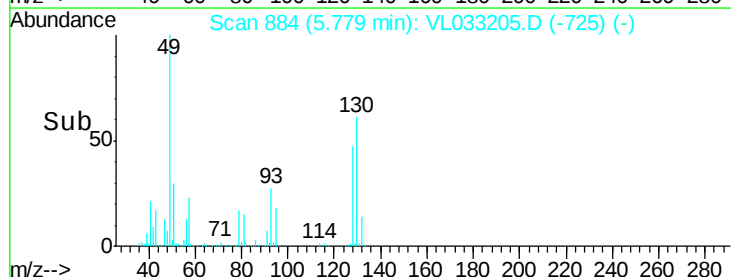


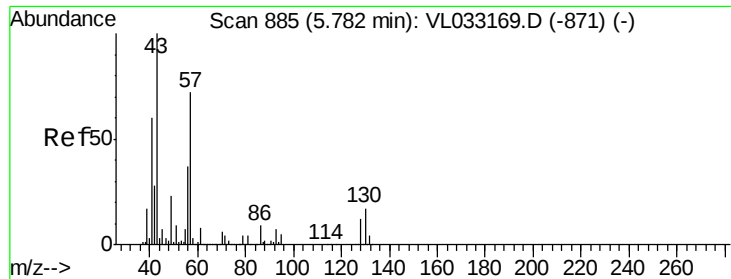
Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 1.208 ppbv

RT: 5.78 min Scan# 883

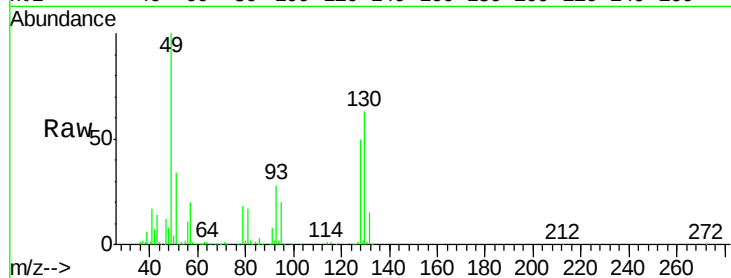
Delta R.T. -0.01 min

Lab File: VL033205.D

Acq: 14 Feb 2019 19:38

Tgt Ion: 57 Resp: 141277

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 57  | 100   |       |        |
| 41  | 92.5  | 69.4  | 104.2  |
| 43  | 75.0  | 176.7 | 265.1# |
| 56  | 54.8  | 41.4  | 62.0   |

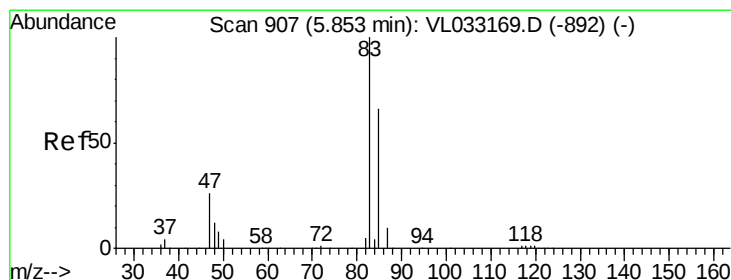
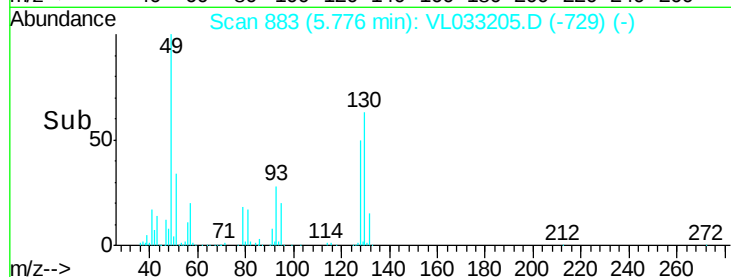
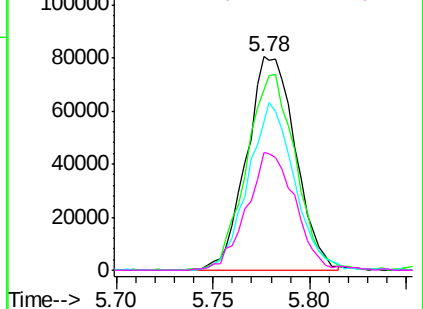


Abundance Ion 57.10 (56.80 to 57.80): VL0

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



#29

Chloroform

Concen: 0.213 ppbv

RT: 5.85 min Scan# 906

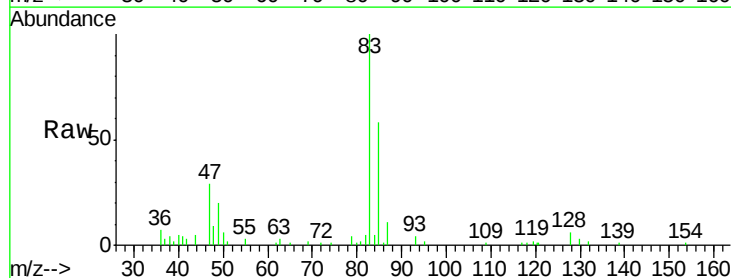
Delta R.T. -0.00 min

Lab File: VL033205.D

Acq: 14 Feb 2019 19:38

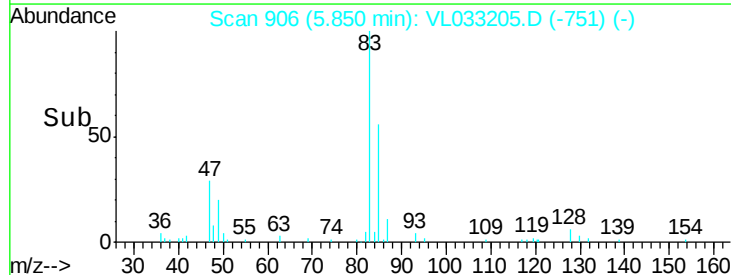
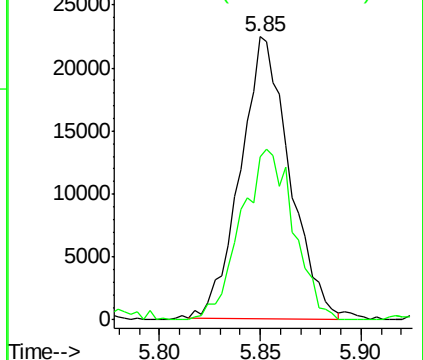
Tgt Ion: 83 Resp: 38114

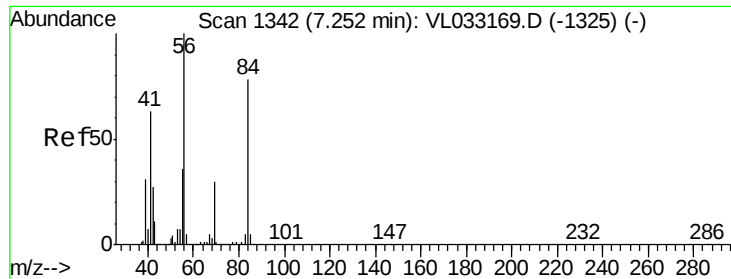
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 85  | 58.0  | 52.6  | 78.8  |



Abundance Ion 83.00 (82.70 to 83.70): VL0

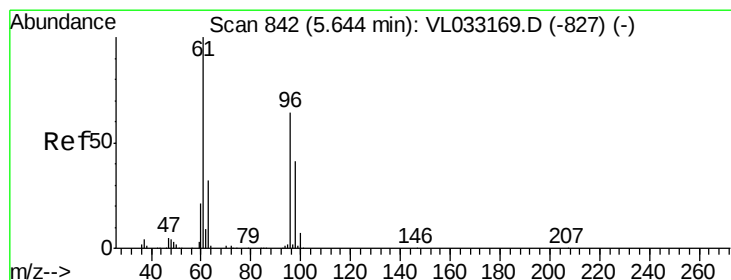
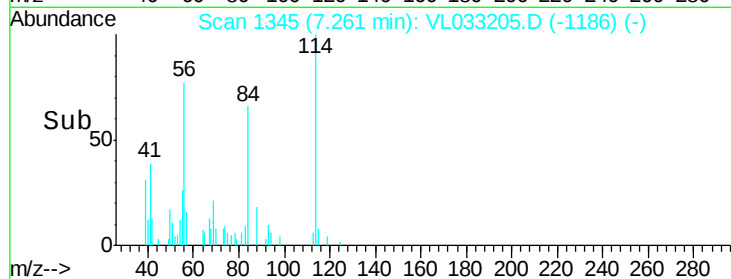
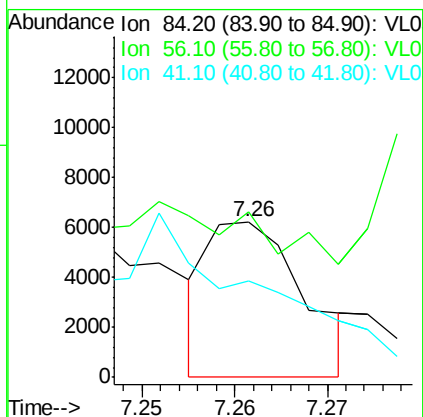
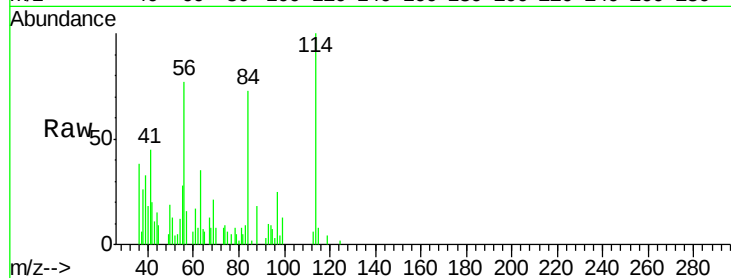
Ion 85.00 (84.70 to 85.70): VL0





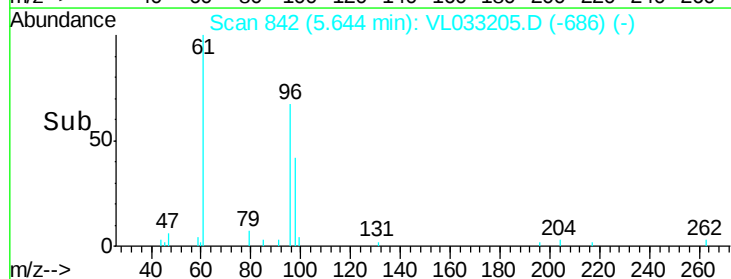
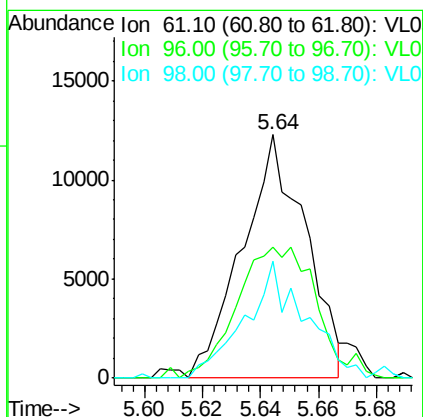
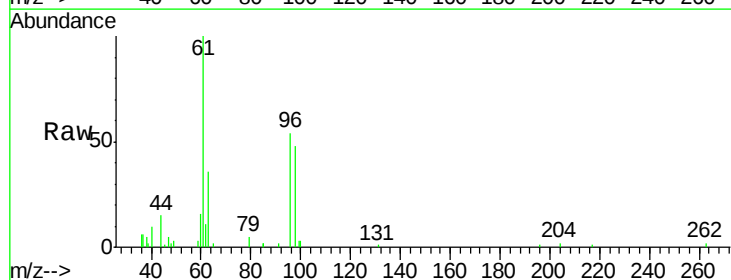
#30  
Cyclohexane  
Concen: 0.041 ppbv  
RT: 7.26 min Scan# 1345  
Delta R.T. 0.01 min  
Lab File: VL033205.D  
Acq: 14 Feb 2019 19:38

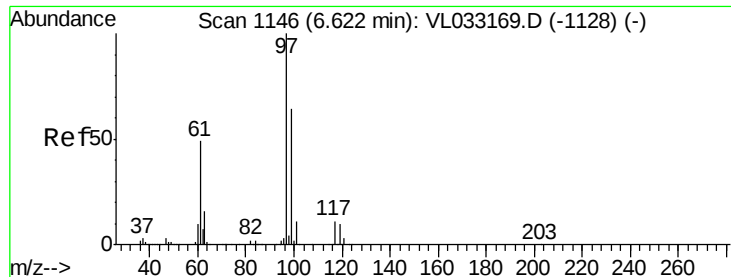
Tgt Ion: 84 Resp: 4418  
Ion Ratio Lower Upper  
84 100  
56 0.0 109.5 164.3#  
41 0.0 66.6 100.0#



#31  
cis-1,2-Dichloroethene  
Concen: 0.159 ppbv  
RT: 5.64 min Scan# 842  
Delta R.T. 0.00 min  
Lab File: VL033205.D  
Acq: 14 Feb 2019 19:38

Tgt Ion: 61 Resp: 18590  
Ion Ratio Lower Upper  
61 100  
96 51.3 51.2 76.8  
98 47.9 32.8 49.2





#32

1,1,1-Trichloroethane

Concen: 124.273 ppbv

RT: 6.63 min Scan# 1150

Delta R.T. 0.01 min

Lab File: VL033205.D

Acq: 14 Feb 2019 19:38

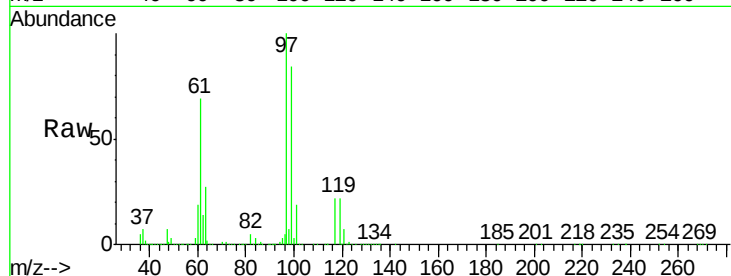
Tgt Ion: 97 Resp: 24526430

Ion Ratio Lower Upper

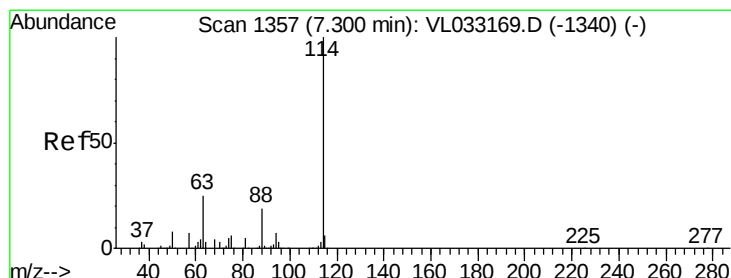
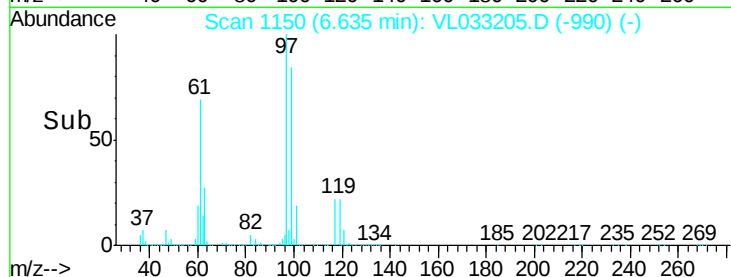
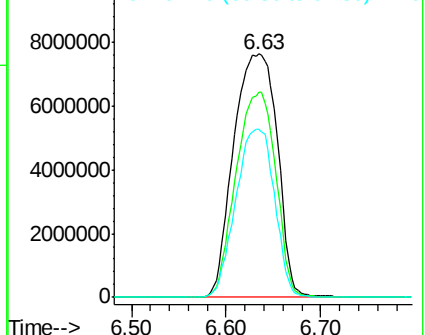
97 100

99 76.9 51.4 77.2

61 61.4 38.9 58.3#



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: 7.30 min Scan# 1357

Delta R.T. 0.00 min

Lab File: VL033205.D

Acq: 14 Feb 2019 19:38

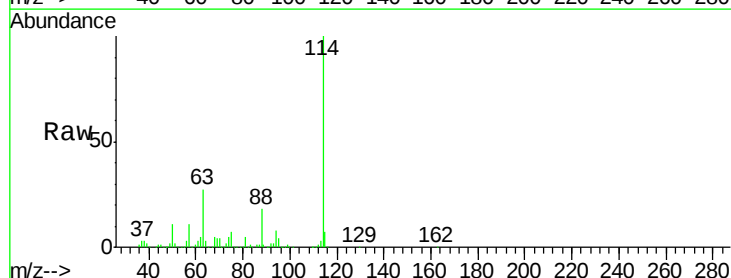
Tgt Ion: 114 Resp: 2129987

Ion Ratio Lower Upper

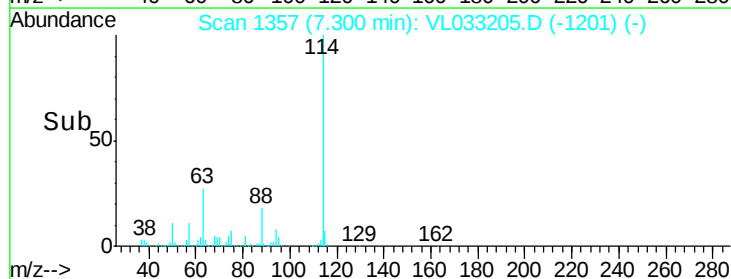
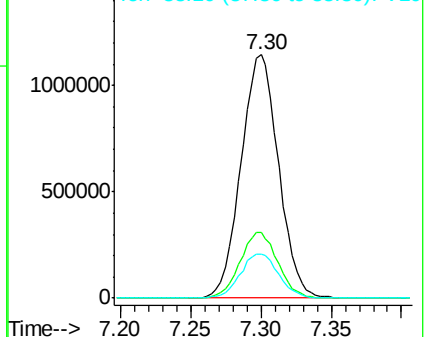
114 100

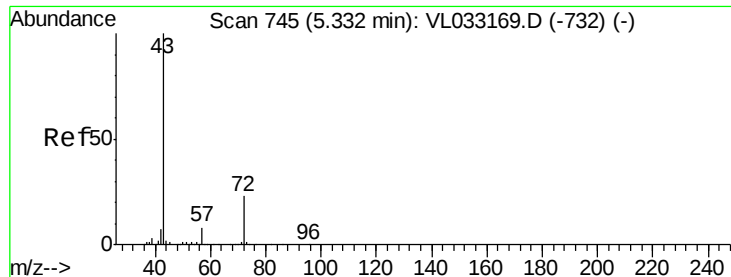
63 27.2 20.8 31.2

88 18.6 14.6 22.0



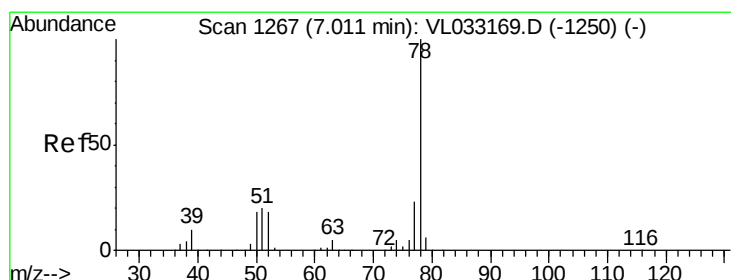
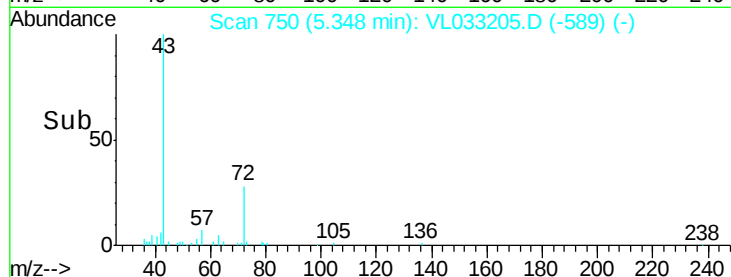
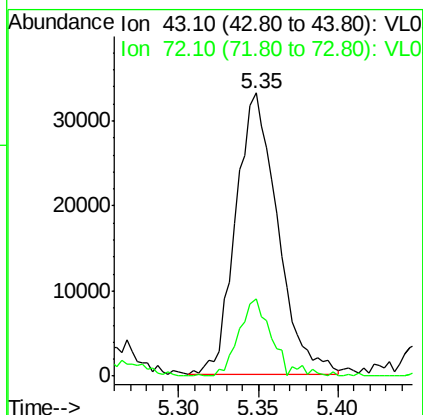
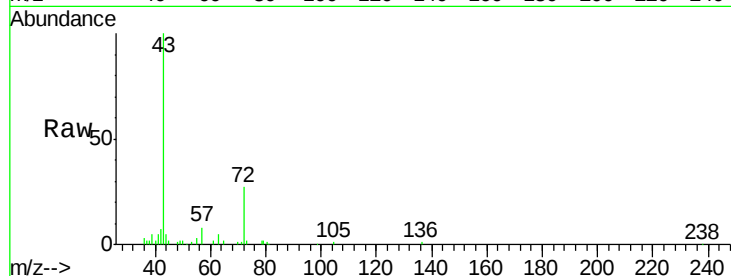
Abundance Ion 114.10 (113.80 to 114.80): V  
Ion 63.10 (62.80 to 63.80): VL0  
Ion 88.10 (87.80 to 88.80): VL0





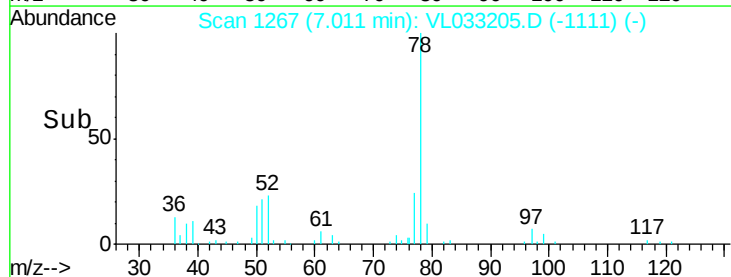
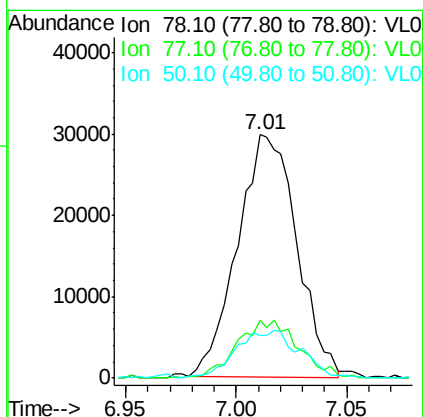
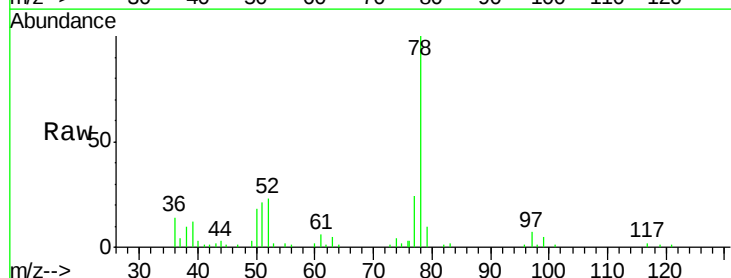
#34  
 2-Butanone  
 Concen: 0.437 ppbv  
 RT: 5.35 min Scan# 750  
 Delta R.T. 0.02 min  
 Lab File: VL033205.D  
 Acq: 14 Feb 2019 19:38

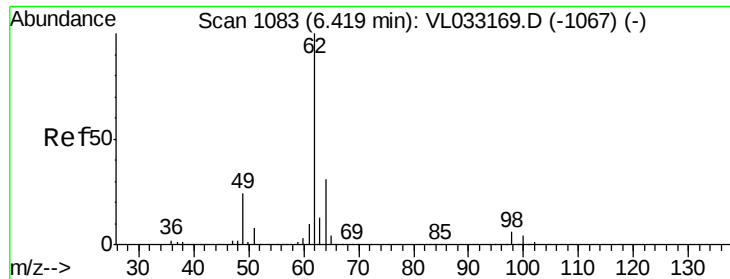
Tgt Ion: 43 Resp: 59074  
 Ion Ratio Lower Upper  
 43 100  
 72 21.9 17.8 26.6



#36  
 Benzene  
 Concen: 0.258 ppbv  
 RT: 7.01 min Scan# 1267  
 Delta R.T. 0.00 min  
 Lab File: VL033205.D  
 Acq: 14 Feb 2019 19:38

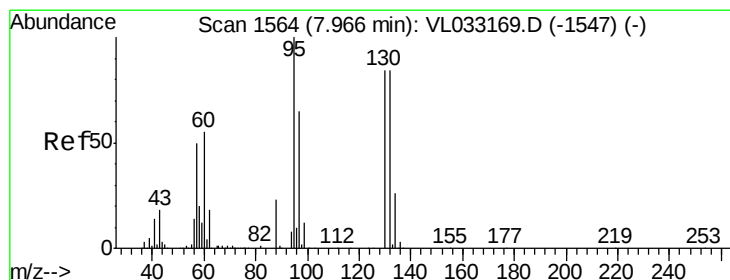
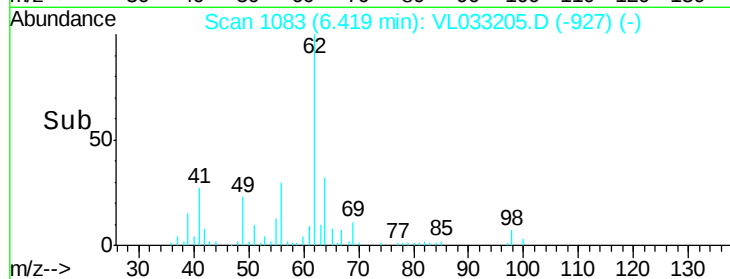
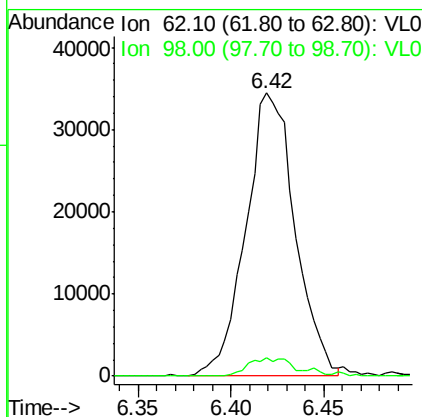
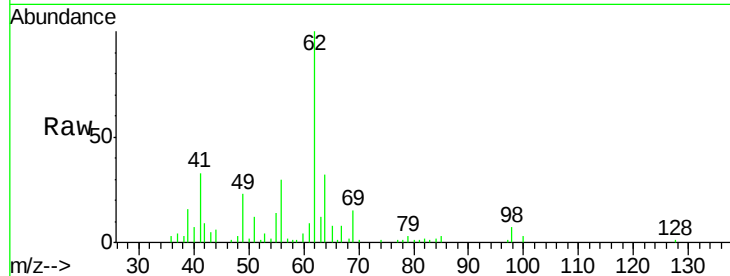
Tgt Ion: 78 Resp: 55665  
 Ion Ratio Lower Upper  
 78 100  
 77 23.2 18.0 27.0  
 50 17.1 14.2 21.2





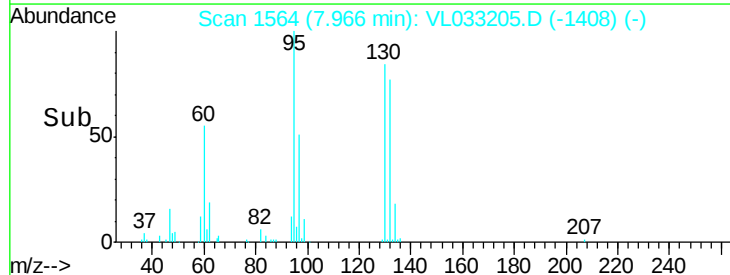
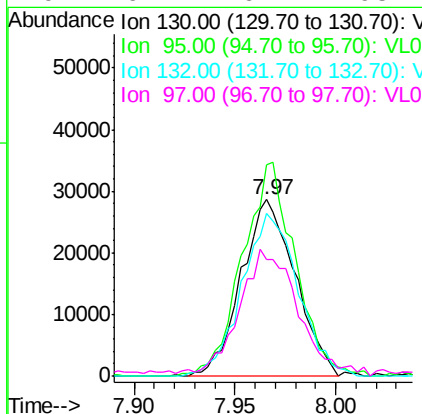
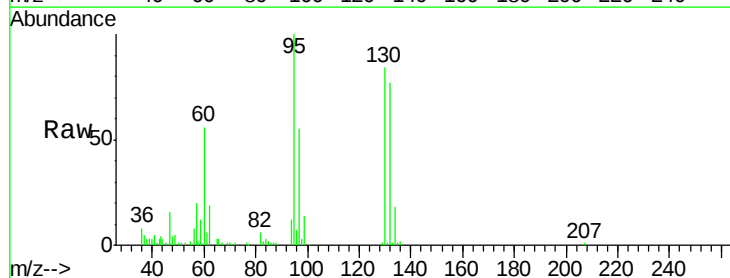
#37  
 1,2-Dichloroethane  
 Concen: 0.534 ppbv  
 RT: 6.42 min Scan# 1083  
 Delta R.T. 0.00 min  
 Lab File: VL033205.D  
 Acq: 14 Feb 2019 19:38

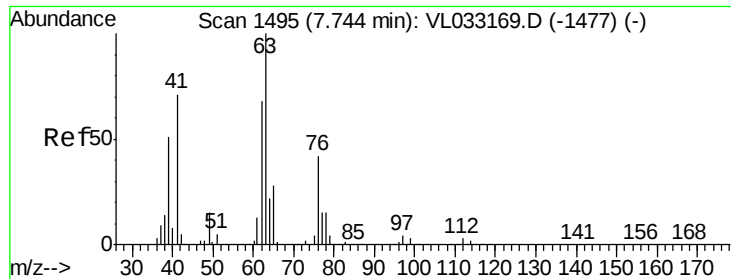
Tgt Ion: 62 Resp: 63910  
 Ion Ratio Lower Upper  
 62 100  
 98 0.0 4.7 7.1#



#38  
 Trichloroethene  
 Concen: 0.577 ppbv  
 RT: 7.97 min Scan# 1564  
 Delta R.T. 0.00 min  
 Lab File: VL033205.D  
 Acq: 14 Feb 2019 19:38

Tgt Ion: 130 Resp: 53381  
 Ion Ratio Lower Upper  
 130 100  
 95 117.0 95.5 143.3  
 132 90.8 80.0 120.0  
 97 61.7 62.2 93.2#





#39

1,2-Dichloropropane

Concen: 6.756 ppbv

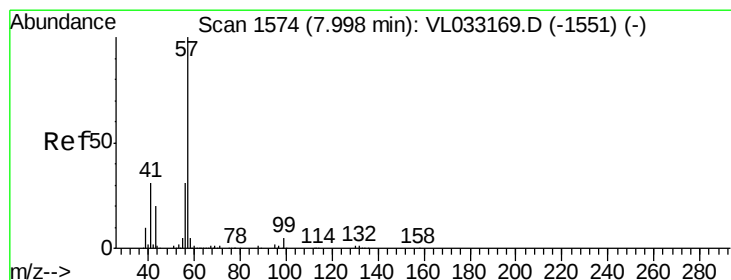
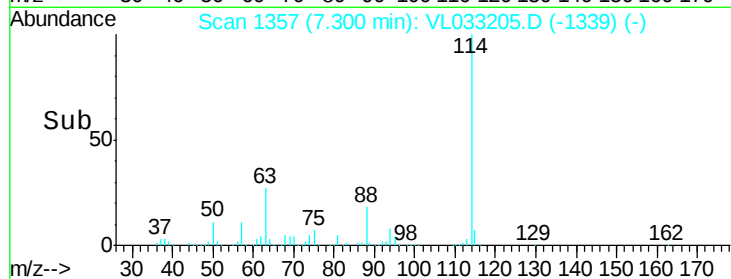
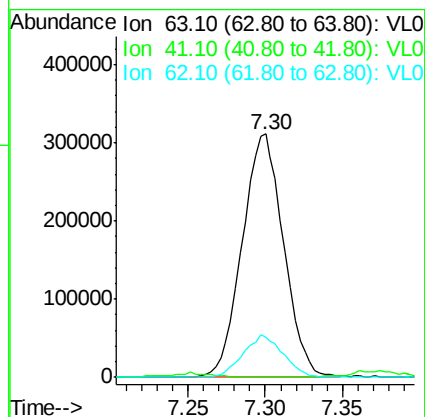
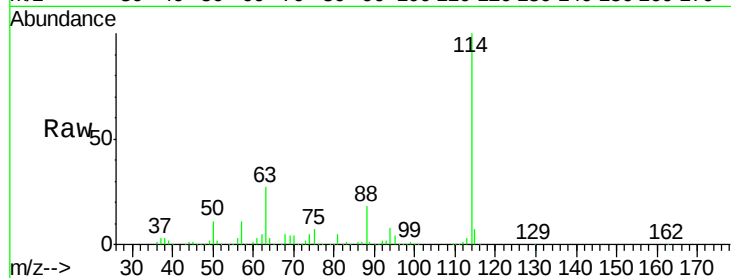
RT: 7.30 min Scan# 1357

Delta R.T. -0.44 min

Lab File: VL033205.D

Acq: 14 Feb 2019 19:38

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 63    | Resp: | 576007 |
| Ion      | Ratio | Lower | Upper  |
| 63       | 100   |       |        |
| 41       | 0.0   | 56.4  | 84.6#  |
| 62       | 16.7  | 54.2  | 81.4#  |



#44

2,2,4-Trimethylpentane

Concen: 0.359 ppbv

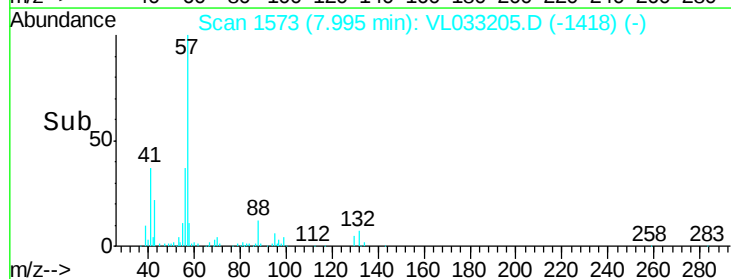
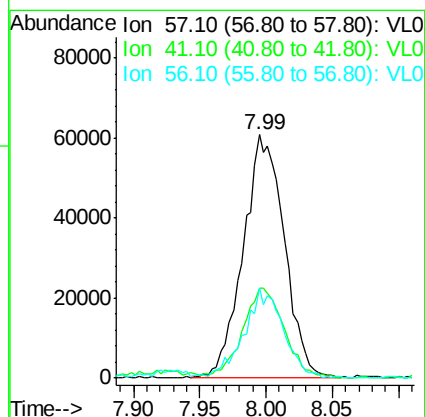
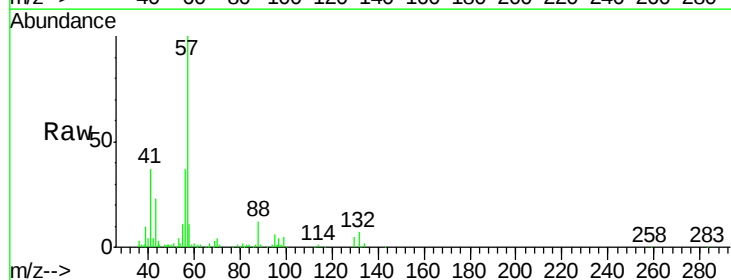
RT: 7.99 min Scan# 1573

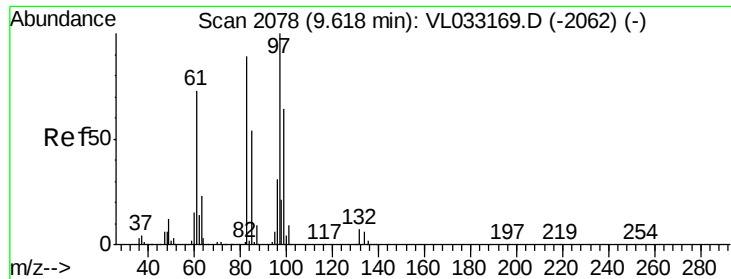
Delta R.T. -0.00 min

Lab File: VL033205.D

Acq: 14 Feb 2019 19:38

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 57    | Resp: | 131286 |
| Ion      | Ratio | Lower | Upper  |
| 57       | 100   |       |        |
| 41       | 37.7  | 25.1  | 37.7#  |
| 56       | 35.1  | 24.5  | 36.7   |





#47

1,1,2-Trichloroethane

Concen: 0.395 ppbv

RT: 9.62 min Scan# 2078

Delta R.T. 0.00 min

Lab File: VL033205.D

Acq: 14 Feb 2019 19:38

Tgt Ion: 97 Resp: 34966

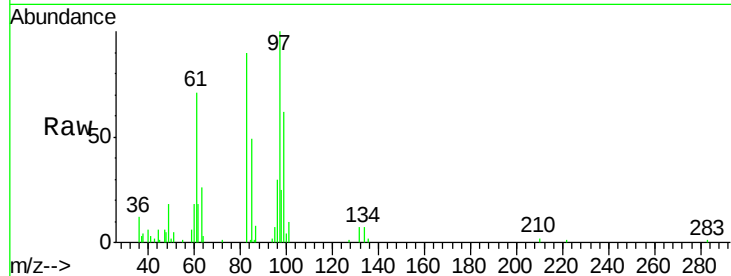
Ion Ratio Lower Upper

97 100

83 91.6 71.4 107.2

85 50.0 43.5 65.3

99 62.9 51.4 77.0

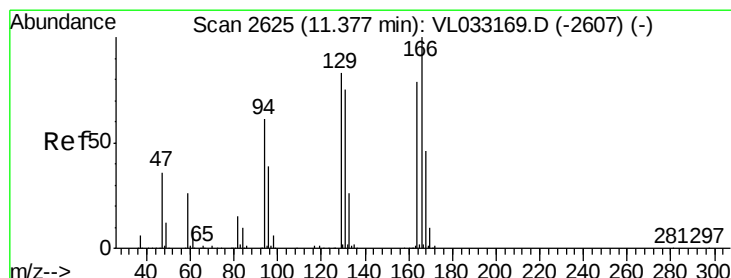
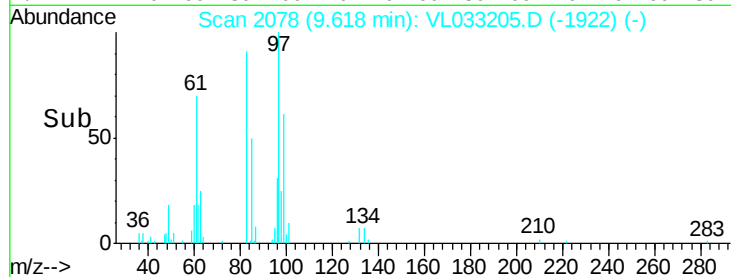
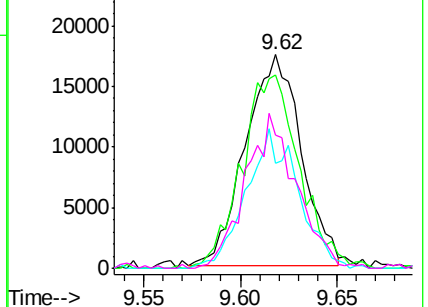


Abundance Ion 97.00 (96.70 to 97.70): VL0

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



#52

Tetrachloroethene

Concen: 1.726 ppbv

RT: 11.37 min Scan# 2624

Delta R.T. -0.00 min

Lab File: VL033205.D

Acq: 14 Feb 2019 19:38

Tgt Ion: 164 Resp: 143113

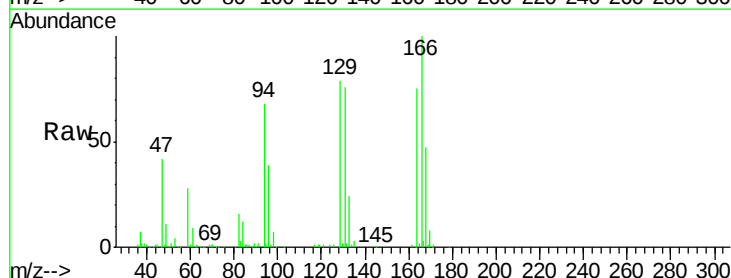
Ion Ratio Lower Upper

164 100

166 133.1 100.9 151.3

129 105.3 83.9 125.9

131 103.4 76.2 114.2

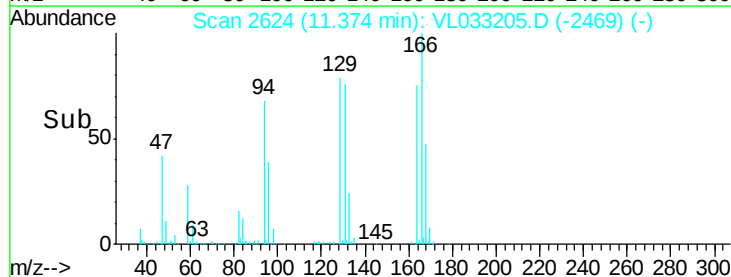
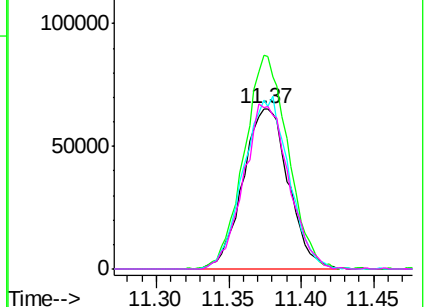


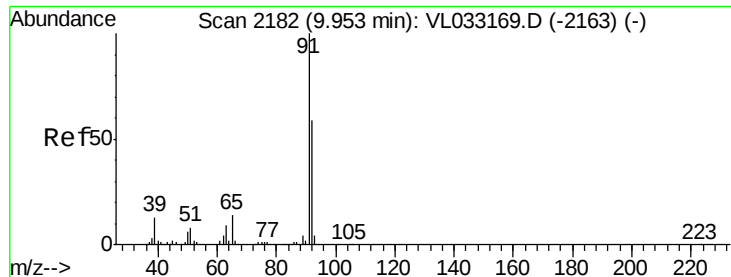
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 1.025 ppbv

RT: 9.95 min Scan# 2181

Delta R.T. -0.00 min

Lab File: VL033205.D

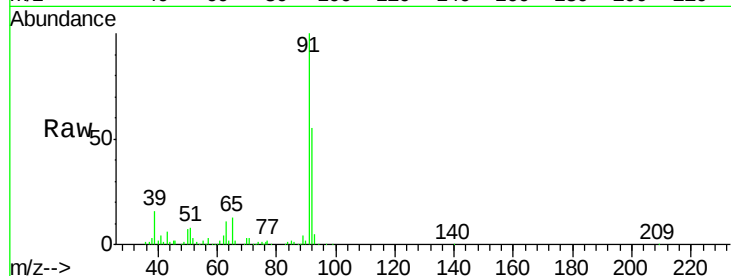
Acq: 14 Feb 2019 19:38

Tgt Ion: 91 Resp: 262039

Ion Ratio Lower Upper

91 100

92 58.4 48.0 72.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

9.95

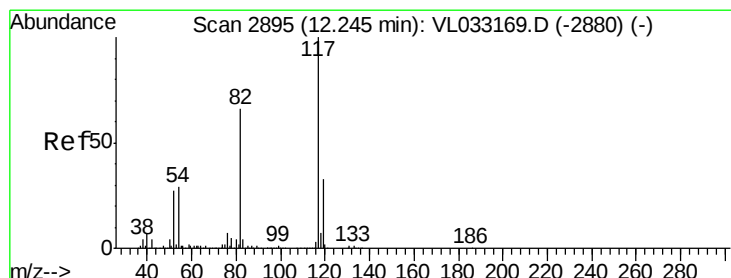
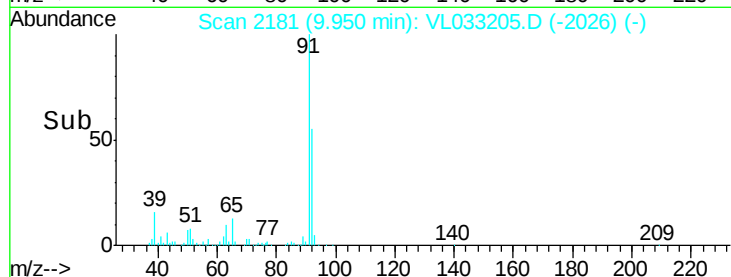
150000

100000

50000

0

Time-->



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2893

Delta R.T. -0.01 min

Lab File: VL033205.D

Acq: 14 Feb 2019 19:38

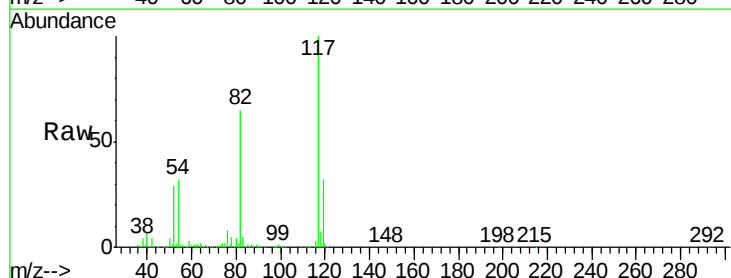
Tgt Ion: 117 Resp: 2187730

Ion Ratio Lower Upper

117 100

82 67.2 49.5 74.3

119 32.1 24.4 36.6



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V

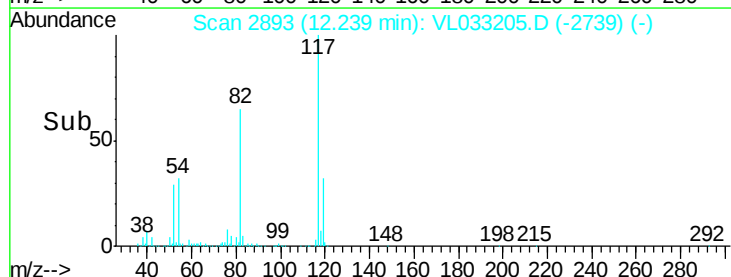
12.24

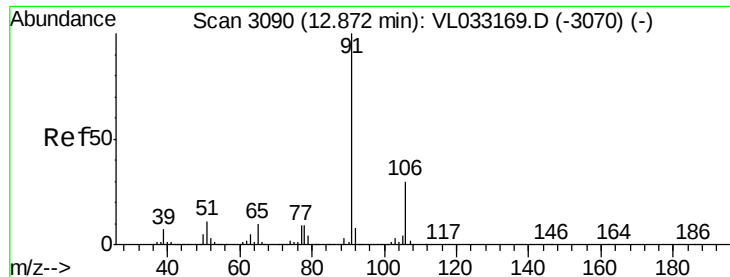
1000000

500000

0

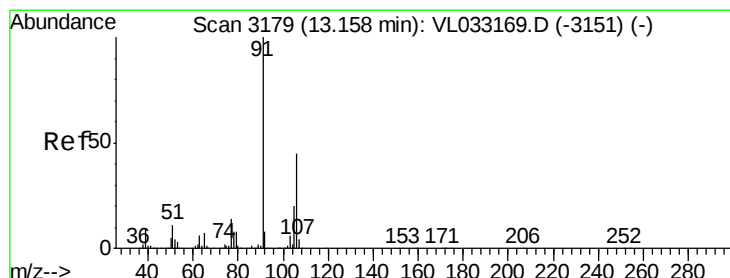
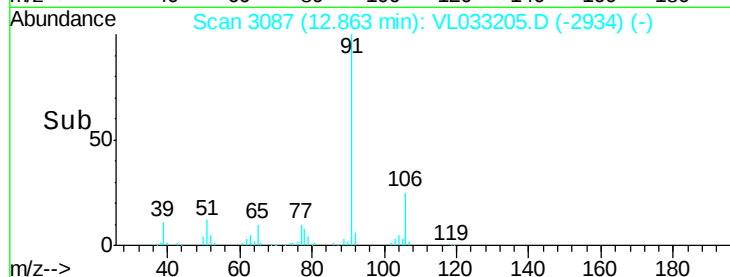
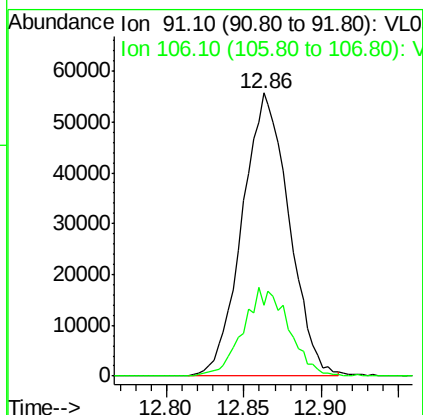
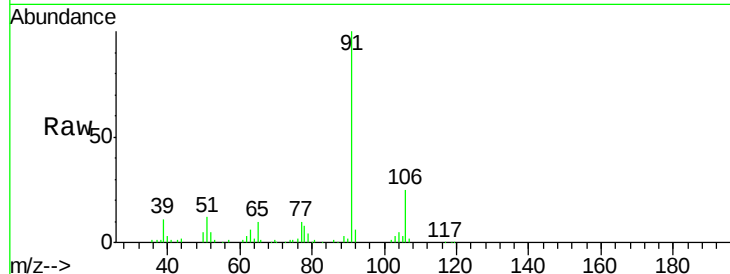
Time-->





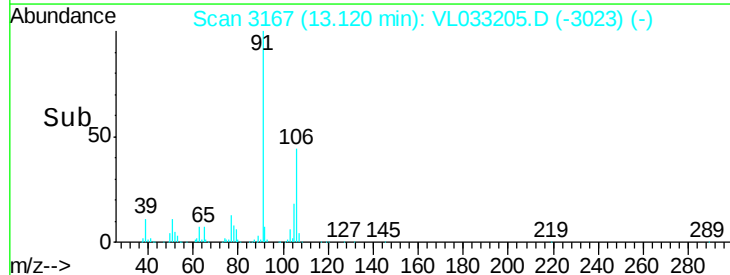
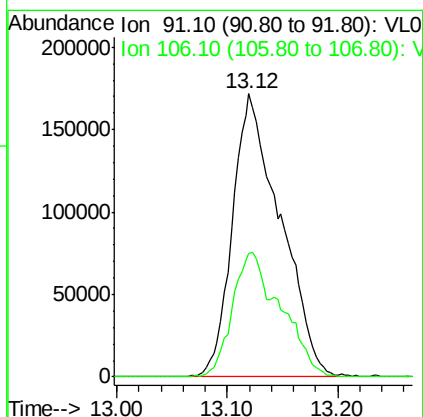
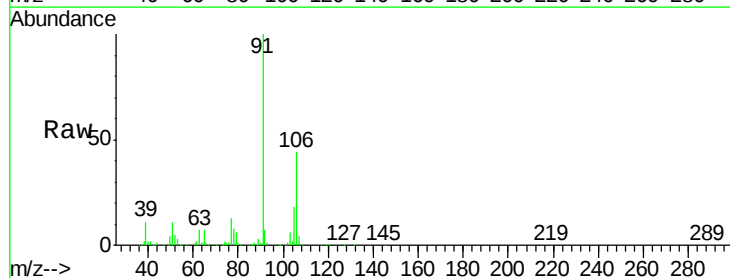
#58  
Ethyl Benzene  
Concen: 0.332 ppbv  
RT: 12.86 min Scan# 3087  
Delta R.T. -0.01 min  
Lab File: VL033205.D  
Acq: 14 Feb 2019 19:38

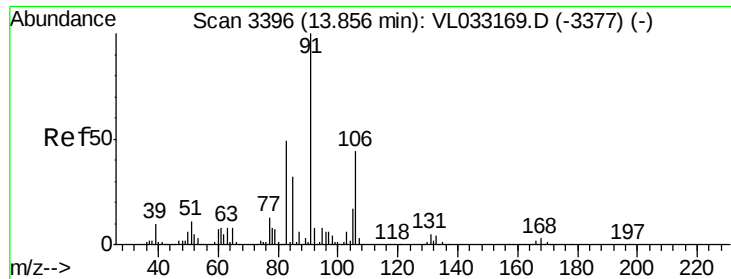
Tgt Ion: 91 Resp: 117389  
Ion Ratio Lower Upper  
91 100  
106 25.0 23.8 35.8



#59  
m/p-Xylene  
Concen: 1.746 ppbv  
RT: 13.12 min Scan# 3167  
Delta R.T. -0.04 min  
Lab File: VL033205.D  
Acq: 14 Feb 2019 19:38

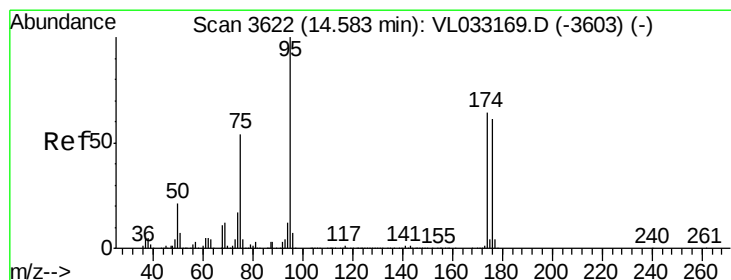
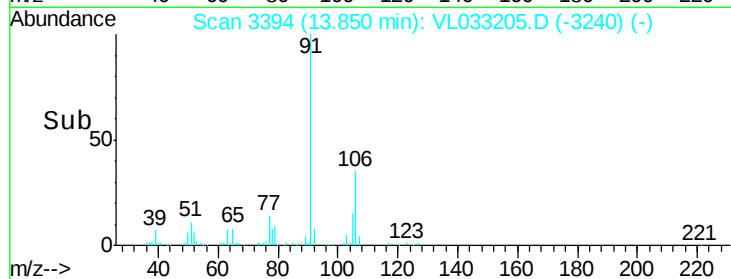
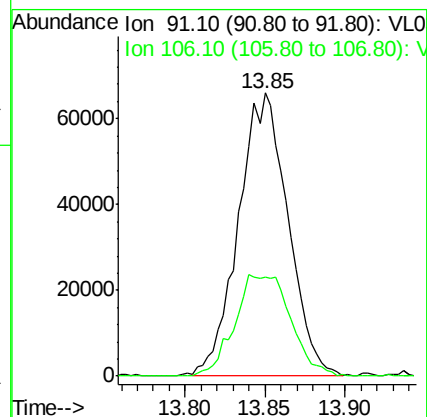
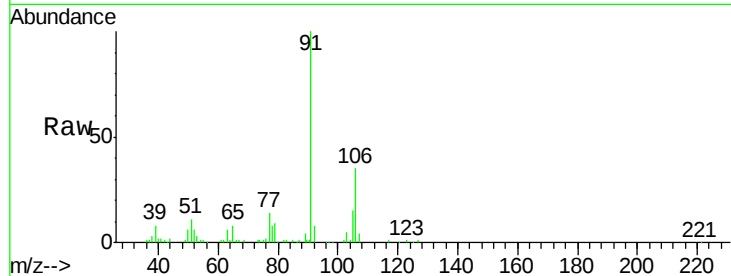
Tgt Ion: 91 Resp: 515957  
Ion Ratio Lower Upper  
91 100  
106 44.4 0.0 0.0#





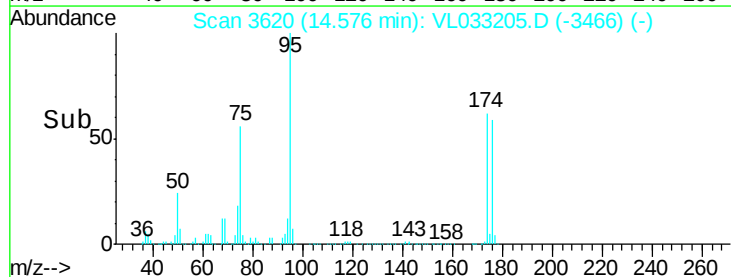
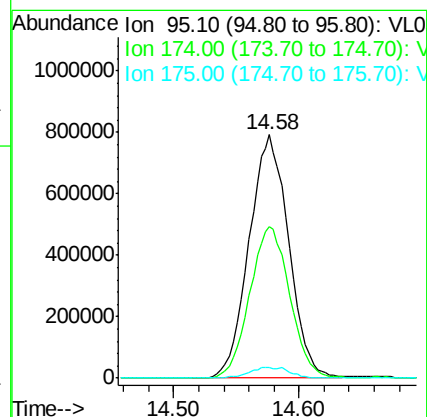
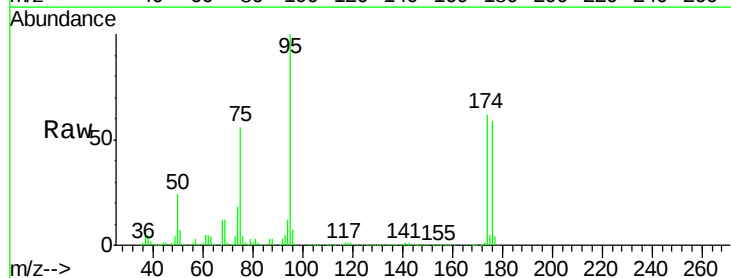
#60  
o-Xylene  
Concen: 0.487 ppbv  
RT: 13.85 min Scan# 3394  
Delta R.T. -0.01 min  
Lab File: VL033205.D  
Acq: 14 Feb 2019 19:38

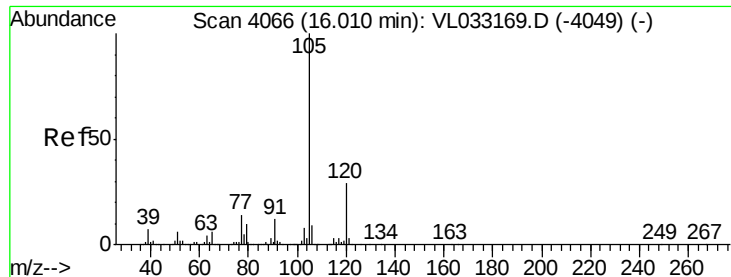
Tgt Ion: 91 Resp: 139870  
Ion Ratio Lower Upper  
91 100  
106 40.4 21.8 65.3



#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.296 ppbv  
RT: 14.58 min Scan# 3620  
Delta R.T. -0.01 min  
Lab File: VL033205.D  
Acq: 14 Feb 2019 19:38

Tgt Ion: 95 Resp: 1734775  
Ion Ratio Lower Upper  
95 100  
174 63.5 51.2 76.8  
175 4.6 3.8 5.6





#72

4-Ethyltoluene

Concen: 0.049 ppbv

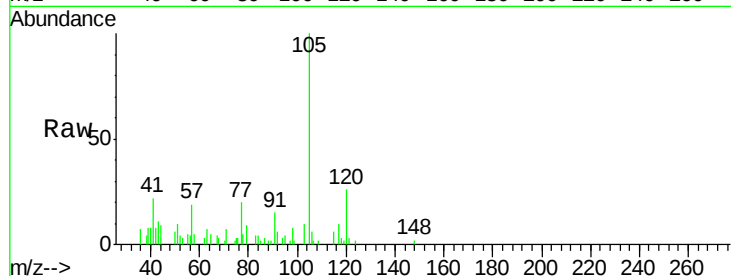
RT: 16.00 min Scan# 4063

Delta R.T. -0.01 min

Lab File: VL033205.D

Acq: 14 Feb 2019 19:38

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 105   | Resp: | 16187 |
| Ion Ratio | Lower | Upper |       |
| 105       | 100   |       |       |
| 120       | 0.0   | 23.1  | 34.7# |
| 91        | 19.8  | 9.8   | 14.6# |
| 77        | 26.6  | 10.9  | 16.3# |

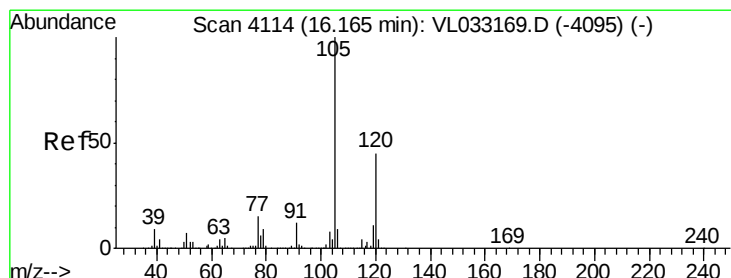
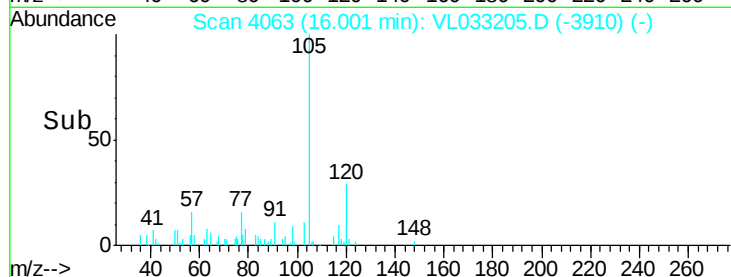
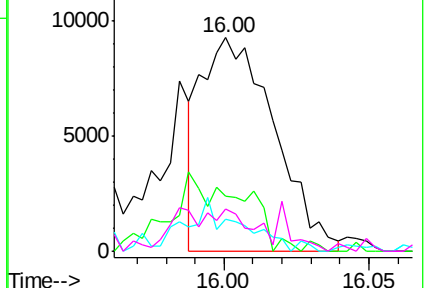


Abundance Ion 105.10 (104.80 to 105.80): V

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



#73

1,3,5-Trimethylbenzene

Concen: 0.040 ppbv

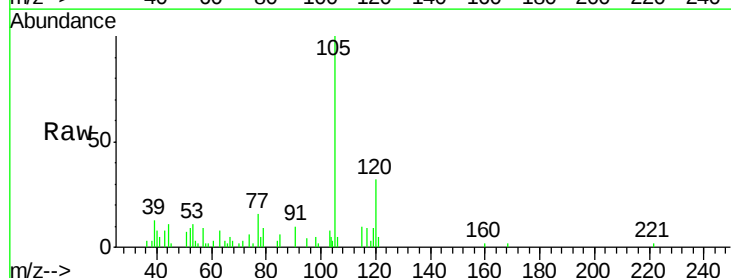
RT: 16.15 min Scan# 4110

Delta R.T. -0.01 min

Lab File: VL033205.D

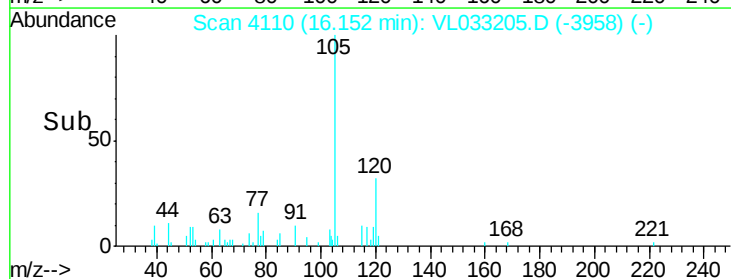
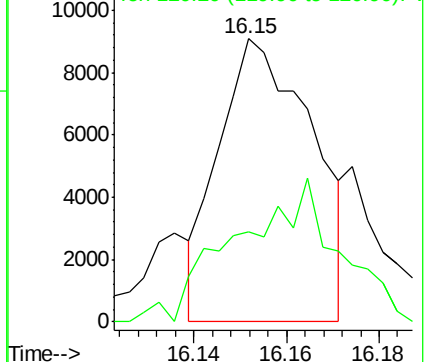
Acq: 14 Feb 2019 19:38

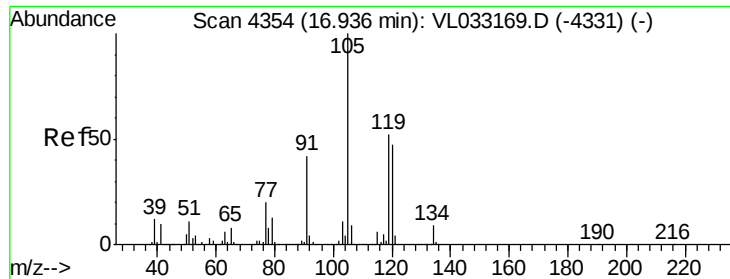
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 105   | Resp: | 12731 |
| Ion Ratio | Lower | Upper |       |
| 105       | 100   |       |       |
| 120       | 22.4  | 36.2  | 54.4# |



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

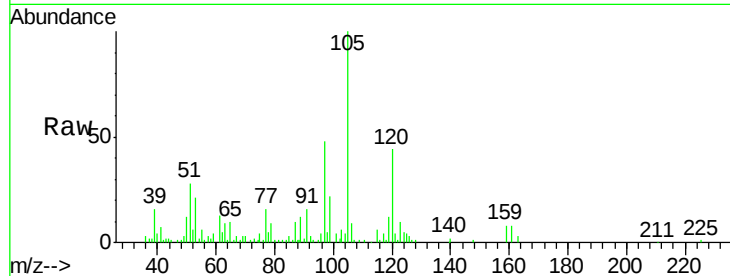




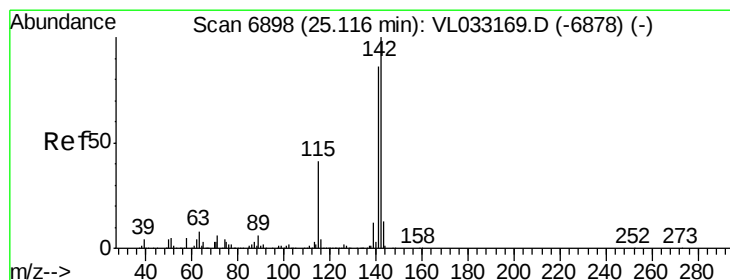
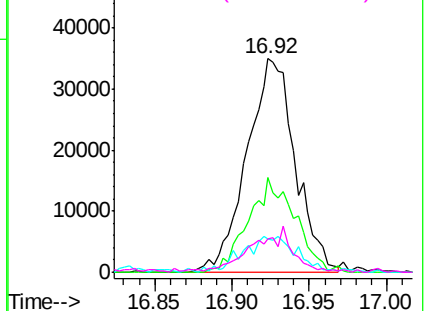
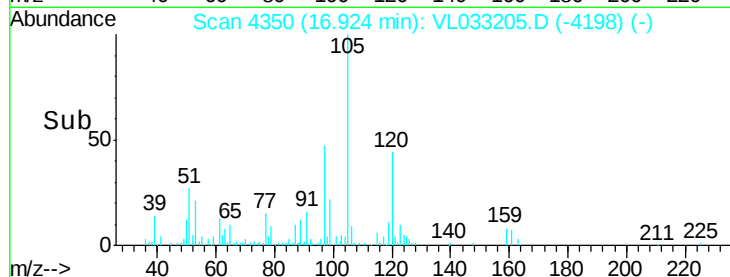
#74

1,2,4-Trimethylbenzene  
Concen: 0.232 ppbv  
RT: 16.92 min Scan# 4350  
Delta R.T. -0.01 min  
Lab File: VL033205.D  
Acq: 14 Feb 2019 19:38

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 105   | Resp: | 76308 |
| Ion      | Ratio | Lower | Upper |
| 105      | 100   |       |       |
| 120      | 47.8  | 37.9  | 56.9  |
| 91       | 14.6  | 34.0  | 51.0# |
| 77       | 15.0  | 15.7  | 23.5# |



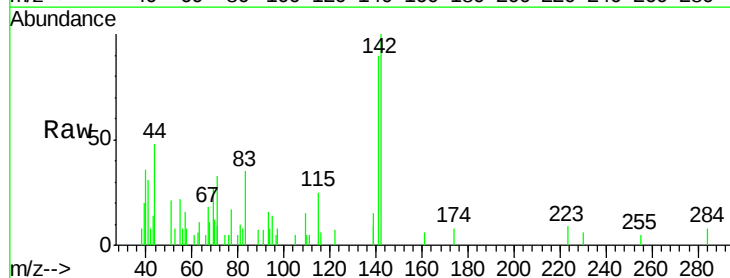
Abundance Ion 105.10 (104.80 to 105.80): V  
Ion 120.20 (119.90 to 120.90): V  
Ion 91.10 (90.80 to 91.80): VL0  
Ion 77.10 (76.80 to 77.80): VL0



#80

Naphthalene, 2-methyl-  
Concen: 0.038 ppbv  
RT: 25.11 min Scan# 6897  
Delta R.T. -0.00 min  
Lab File: VL033205.D  
Acq: 14 Feb 2019 19:38

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 142   | Resp: | 6729  |
| Ion      | Ratio | Lower | Upper |
| 142      | 100   |       |       |
| 141      | 85.6  | 67.7  | 101.5 |
| 115      | 52.2  | 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

