

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL041218\  
 Data File : VL031867.D  
 Acq On : 12 Apr 2018 16:08  
 Operator : SY/AP  
 Sample : J2191-01  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 GAC-INF-040218

Manual Integrations  
 APPROVED

MMDadoda  
 4/15/2018 3:07:23 PM

Quant Time: Apr 15 11:41:01 2018  
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL041218AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Apr 13 16:50:02 2018  
 QLast Update : Fri Apr 13 16:50:02 2018  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.89  | 49   | 1183560  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.43  | 114  | 2388800  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.39 | 117  | 2346802  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.73  | 95    | 1916591  | 10.16    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 101.60% |

| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Ovalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane     | 3.16  | 85   | 354878   | 1.454   | ppbv   | 99     |
| 3) Chlorodifluoromethane       | 3.10  | 51   | 40272m   | 0.293   | ppbv   |        |
| 4) Chloromethane               | 3.25  | 50   | 20100m   | 0.286   | ppbv   |        |
| 5) Vinyl Chloride              | 3.39  | 62   | 7186     | 0.091   | ppbv   | 89     |
| 7) Chloroethane                | 3.70  | 64   | 8165m    | 0.259   | ppbv   |        |
| 9) Propene                     | 3.14  | 41   | 151531m  | 3.184   | ppbv   |        |
| 10) Heptane                    | 8.39  | 43   | 256955   | 1.664   | ppbv   | 100    |
| 11) Trichlorofluoromethane     | 4.11  | 101  | 1703028  | 7.116   | ppbv   | 98     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.67  | 101  | 43691    | 0.281   | ppbv   | 98     |
| 13) Ethanol                    | 3.75  | 45   | 1804551  | 111.711 | ppbv   | 99     |
| 15) Acetone                    | 4.00  | 43   | 2741121  | 15.048  | ppbv   | 97     |
| 20) Methylene Chloride         | 4.52  | 84   | 185047   | 2.789   | ppbv   | 90     |
| 24) 1,1-Dichloroethane         | 5.21  | 63   | 450916   | 2.450   | ppbv   | 97     |
| 26) Hexane                     | 5.91  | 57   | 466022   | 3.518   | ppbv # | 47     |
| 29) Chloroform                 | 5.97  | 83   | 240965   | 1.073   | ppbv   | 97     |
| 30) Cyclohexane                | 7.39  | 84   | 363355   | 3.841   | ppbv   | 95     |
| 31) cis-1,2-Dichloroethene     | 5.77  | 61   | 239596   | 1.997   | ppbv   | 96     |
| 32) 1,1,1-Trichloroethane      | 6.75  | 97   | 818529   | 3.743   | ppbv   | 99     |
| 34) 2-Butanone                 | 5.45  | 43   | 98960    | 0.597   | ppbv   | 96     |
| 35) Carbon Tetrachloride       | 7.27  | 117  | 18604m   | 0.090   | ppbv   |        |
| 36) Benzene                    | 7.14  | 78   | 24275m   | 0.113   | ppbv   |        |
| 38) Trichloroethene            | 8.10  | 130  | 867389   | 9.945   | ppbv   | 96     |
| 52) Tetrachloroethene          | 11.52 | 164  | 32023    | 0.383   | ppbv   | 90     |
| 53) Toluene                    | 10.09 | 91   | 3575637  | 14.923  | ppbv   | 99     |
| 59) m/p-Xylene                 | 13.27 | 91   | 85578m   | 0.302   | ppbv   |        |
| 60) o-Xylene                   | 14.00 | 91   | 29009m   | 0.103   | ppbv   |        |

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

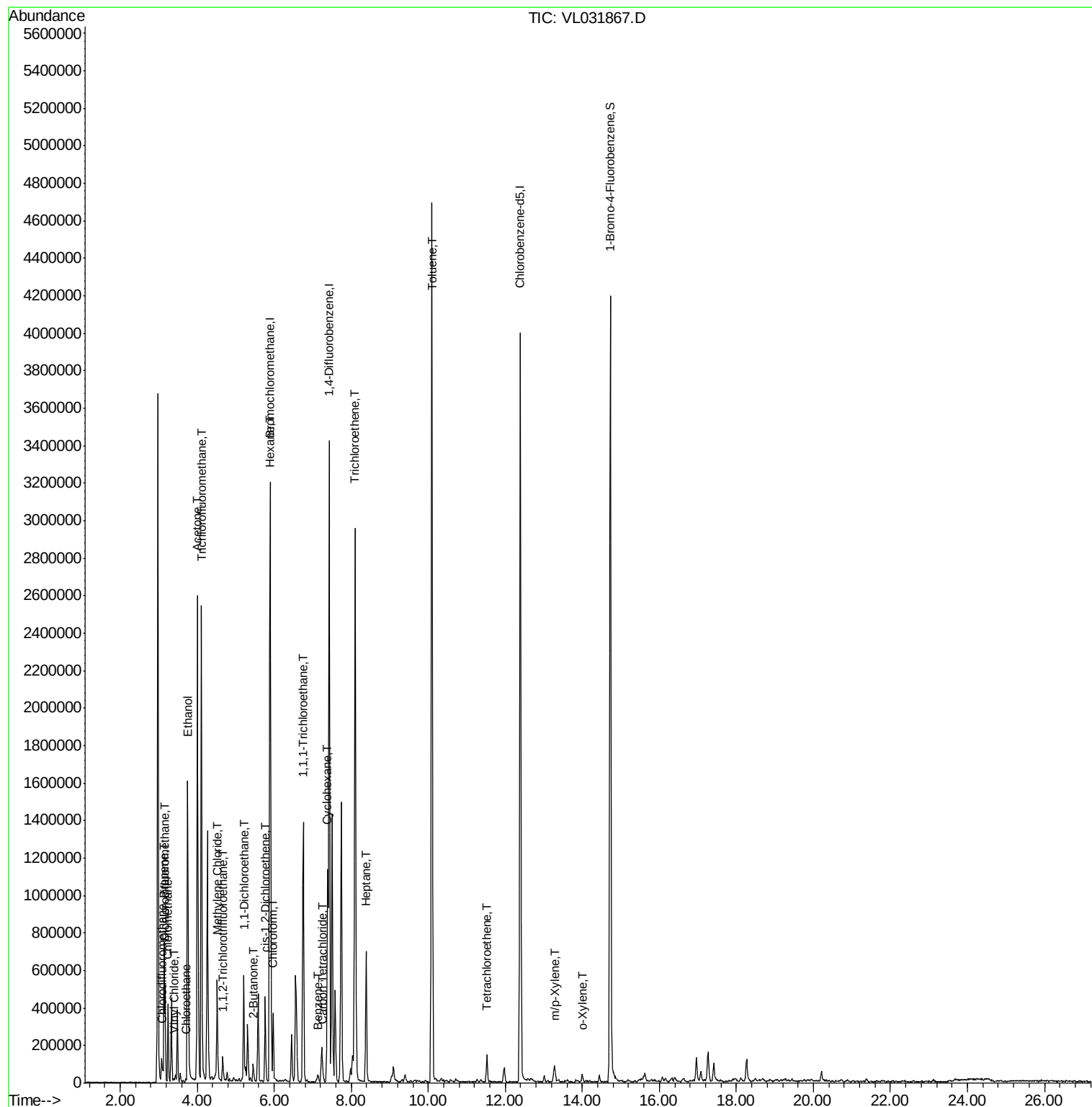
Data Path : W:\HPCHEM1\MSVOA L\DATA\VL041218\  
Data File : VL031867.D  
Acq On : 12 Apr 2018 16:08  
Operator : SY/AP  
Sample : J2191-01  
Misc : 400ml/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

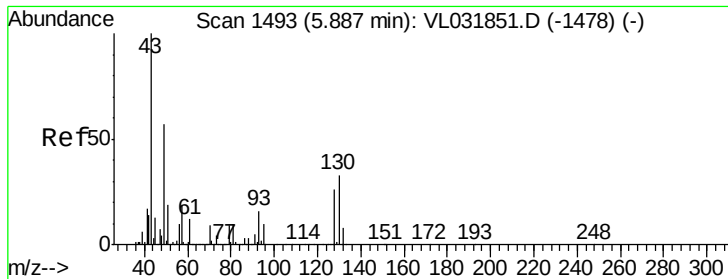
Instrument :  
MSVOA\_L  
ClientSampleId :  
GAC-INF-040218

Manual Integrations  
APPROVED

MMDadoda  
4/15/2018 3:07:23 PM

Quant Time: Apr 15 11:41:01 2018  
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL041218AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Apr  
QLast Update : Fri Apr 13 16:50:02 2018  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.89 min Scan# 1493

Delta R.T. -0.00 min

Lab File: VL031867.D

Acq: 12 Apr 2018 16:08

Instrument :

MSVOA\_L

ClientSampleId :

GAC-INF-040218

Tot Ion: 49 Resp: 1183560

Ion Ratio Lower Upper

49 100

128 48.3 23.9 71.7

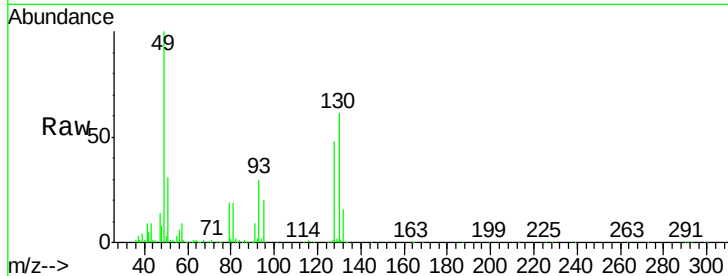
130 61.7 30.9 92.7

Manual Integrations

APPROVED

MMDadoda

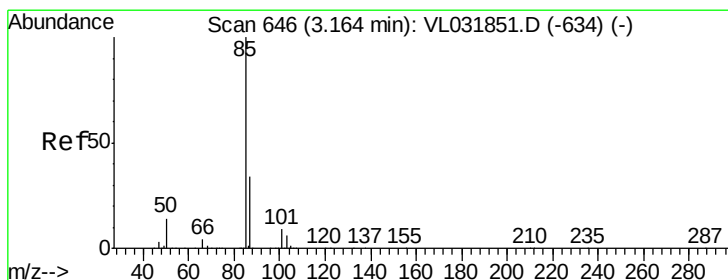
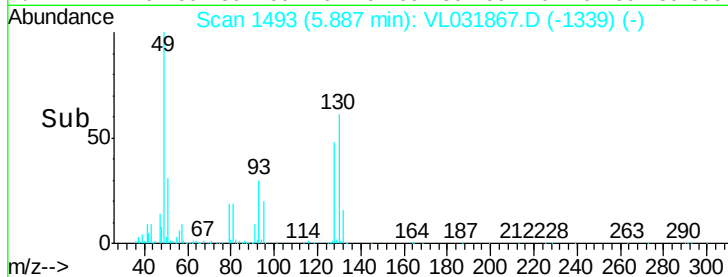
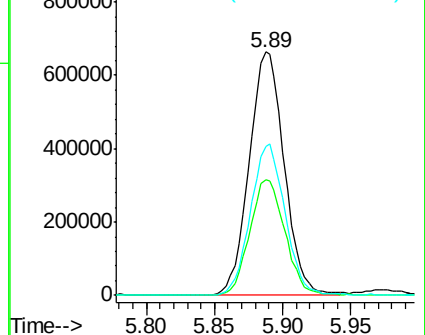
4/15/2018 3:07:23 PM



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: 1.454 ppbv

RT: 3.16 min Scan# 646

Delta R.T. -0.00 min

Lab File: VL031867.D

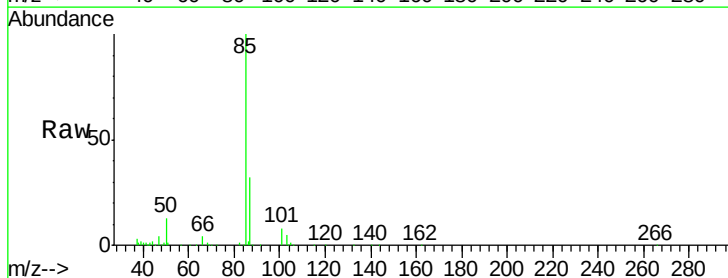
Acq: 12 Apr 2018 16:08

Tgt Ion: 85 Resp: 354878

Ion Ratio Lower Upper

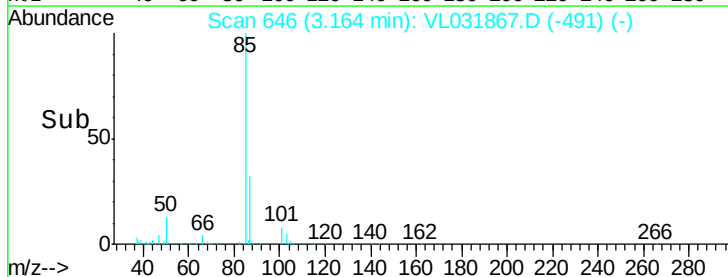
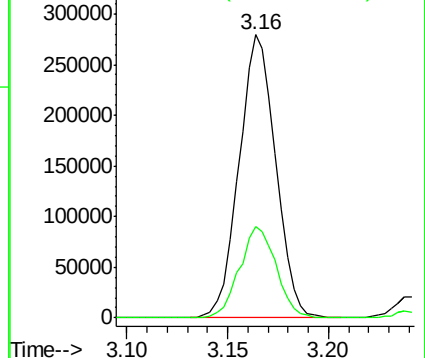
85 100

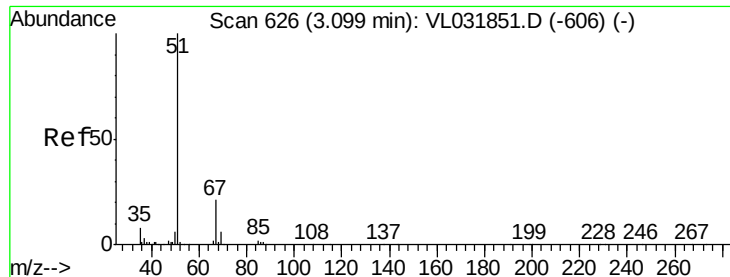
87 32.1 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.293 ppbv m

RT: 3.10 min Scan# 626

Delta R.T. -0.00 min

Lab File: VL031867.D

Acq: 12 Apr 2018 16:08

Instrument :

MSVOA\_L

ClientSampleId :

GAC-INF-040218

Tot Ion: 51 Resp: 40272

Ion Ratio Lower Upper

51 100

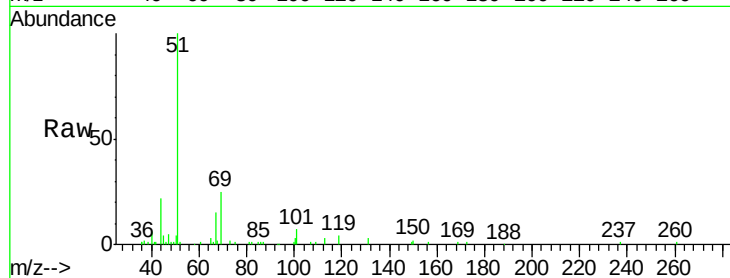
67 2.4 17.5 26.3#

Manual Integrations

APPROVED

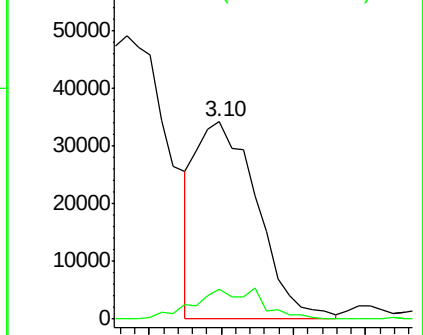
MMDadoda

4/15/2018 3:07:23 PM

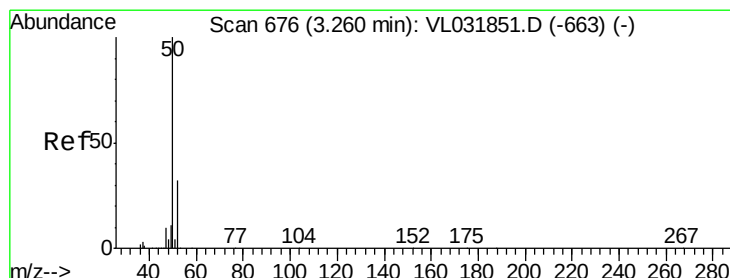
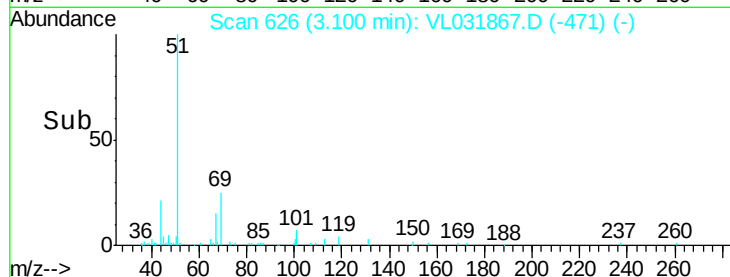


Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



Time-->



#4

Chloromethane

Concen: 0.286 ppbv m

RT: 3.25 min Scan# 674

Delta R.T. -0.01 min

Lab File: VL031867.D

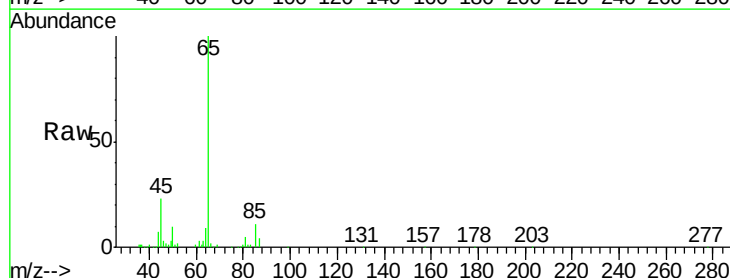
Acq: 12 Apr 2018 16:08

Tgt Ion: 50 Resp: 20100

Ion Ratio Lower Upper

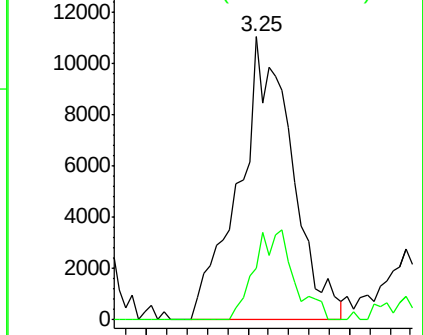
50 100

52 18.3 28.1 42.1#

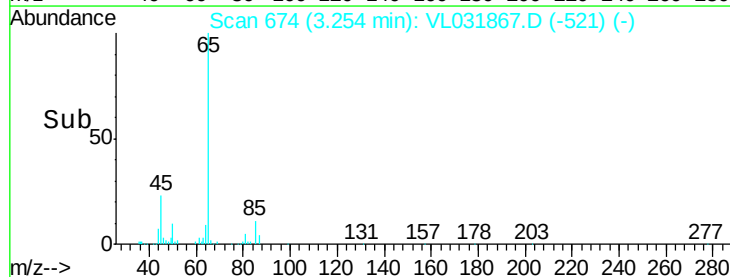


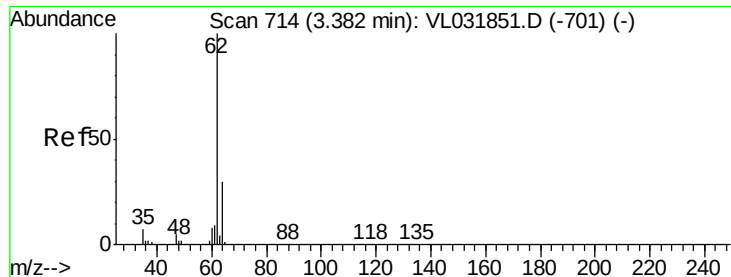
Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



Time-->





#5

Vinyl Chloride

Concen: 0.091 ppbv

RT: 3.39 min Scan# 715

Delta R.T. 0.00 min

Lab File: VL031867.D

Acq: 12 Apr 2018 16:08

Instrument :

MSVOA\_L

ClientSampleId :

GAC-INF-040218

Tot Ion: 62 Resp: 7186

Ion Ratio Lower Upper

62 100

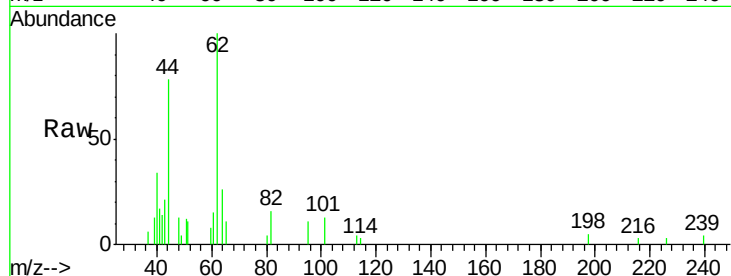
64 26.5 25.9 38.9

Manual Integrations

APPROVED

MMDadoda

4/15/2018 3:07:23 PM



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.39

6000

5000

4000

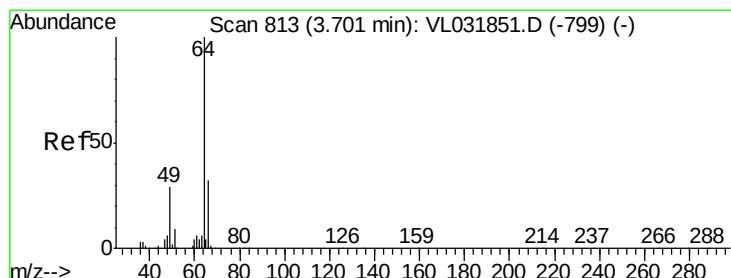
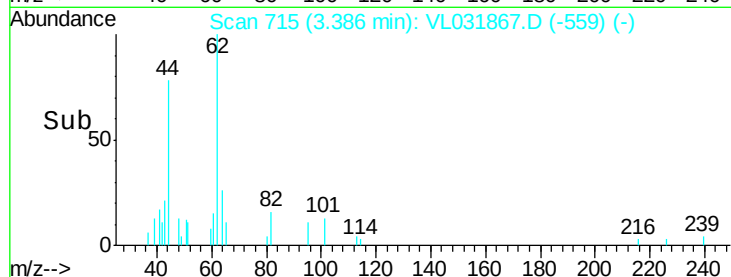
3000

2000

1000

0

Time-->



#7

Chloroethane

Concen: 0.259 ppbv m

RT: 3.70 min Scan# 814

Delta R.T. 0.01 min

Lab File: VL031867.D

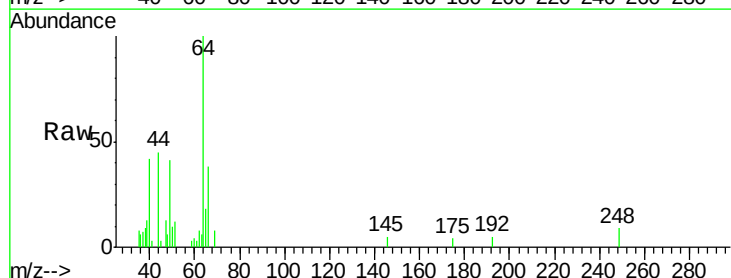
Acq: 12 Apr 2018 16:08

Tgt Ion: 64 Resp: 8165

Ion Ratio Lower Upper

64 100

66 37.8 23.4 35.0#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.70

6000

5000

4000

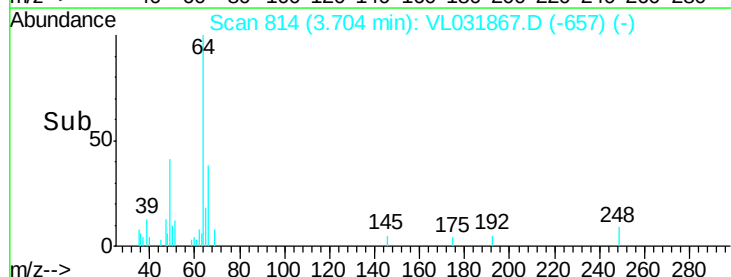
3000

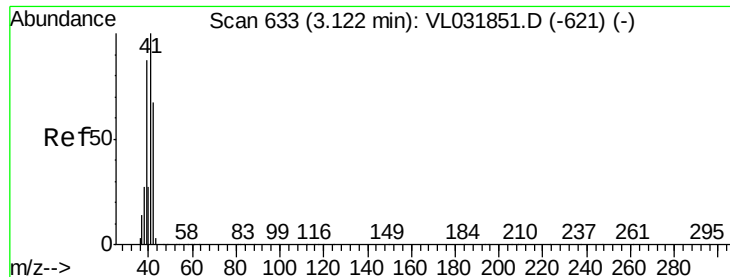
2000

1000

0

Time-->





#9

Propene

Concen: 3.184 ppbv m

RT: 3.14 min Scan# 638

Delta R.T. 0.02 min

Lab File: VL031867.D

Acq: 12 Apr 2018 16:08

Instrument :

MSVOA\_L

ClientSampleId :

GAC-INF-040218

Tot Ion: 41 Resp: 151531

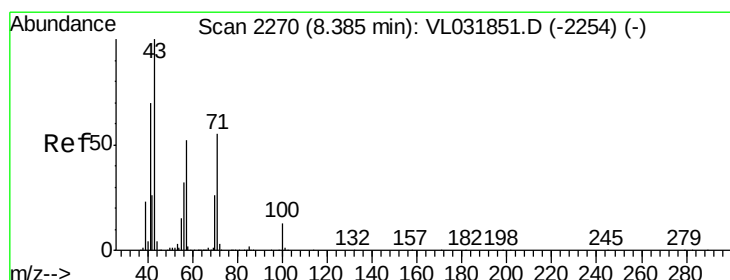
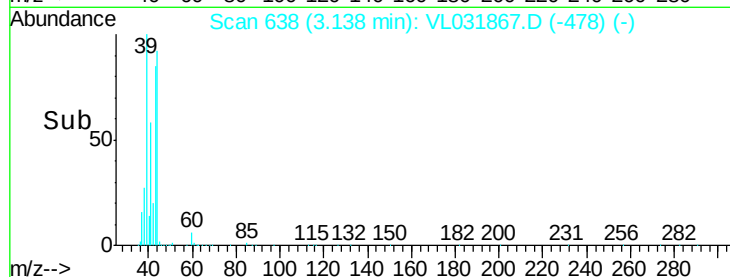
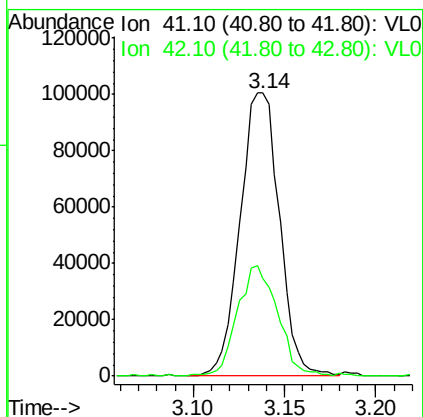
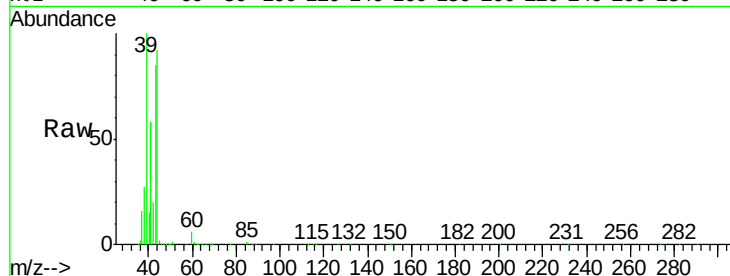
Ion Ratio Lower Upper

41 100

42 51.9 55.0 82.4#

Manual Integrations  
APPROVED

MMDadoda  
4/15/2018 3:07:23 PM



#10

Heptane

Concen: 1.664 ppbv

RT: 8.39 min Scan# 2270

Delta R.T. -0.00 min

Lab File: VL031867.D

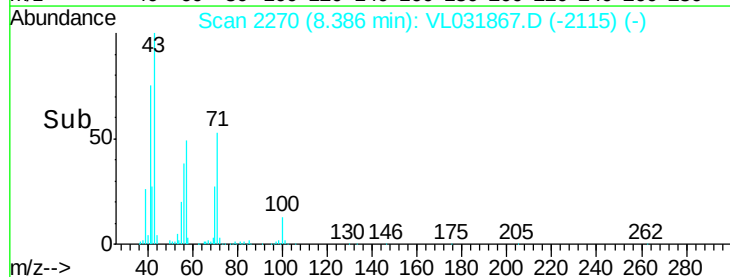
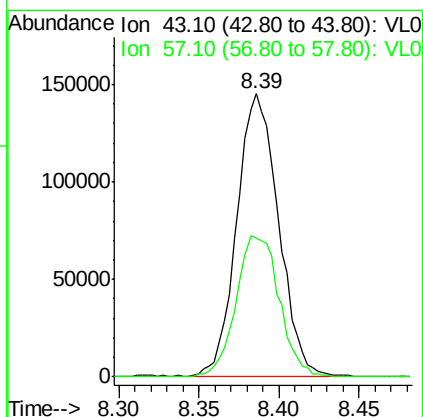
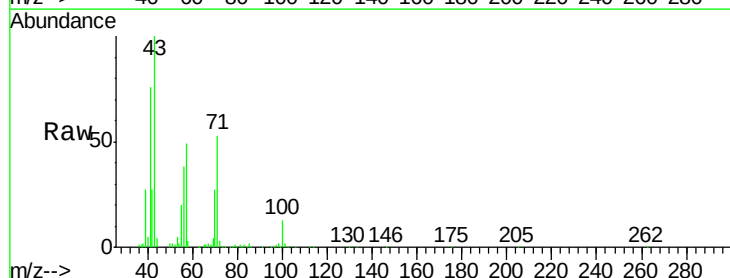
Acq: 12 Apr 2018 16:08

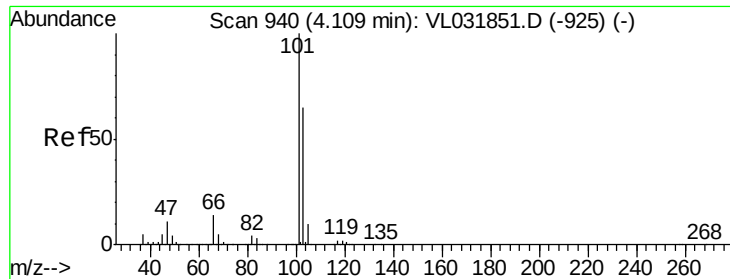
Tgt Ion: 43 Resp: 256955

Ion Ratio Lower Upper

43 100

57 52.0 41.5 62.3





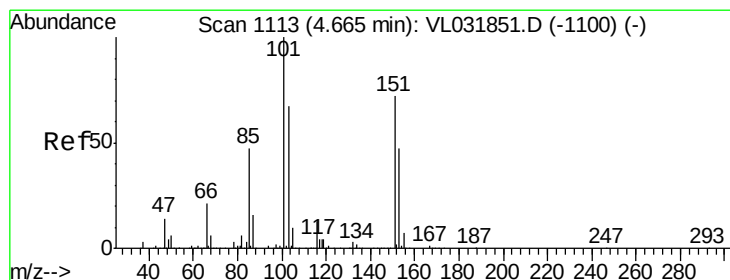
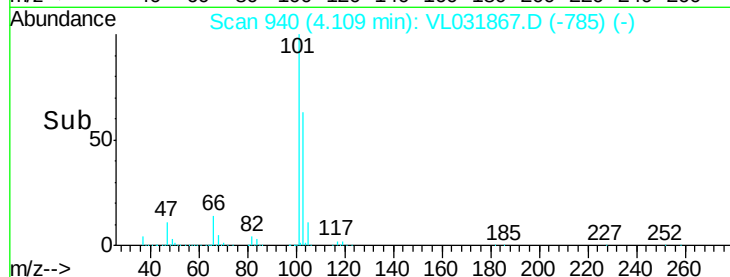
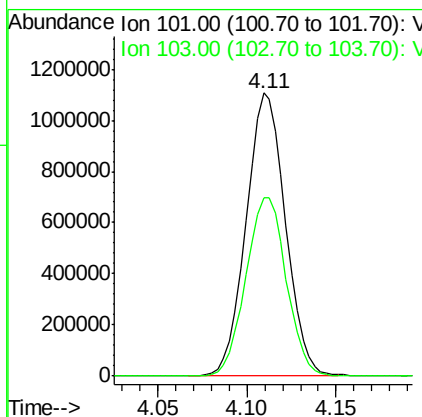
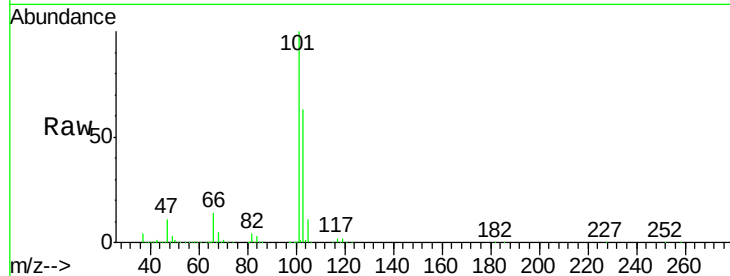
#11  
 Trichlorofluoromethane  
 Concen: 7.116 ppbv  
 RT: 4.11 min Scan# 940  
 Delta R.T. -0.00 min  
 Lab File: VL031867.D  
 Acq: 12 Apr 2018 16:08

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 GAC-INF-040218

Tot Ion:101 Resp: 1703028  
 Ion Ratio Lower Upper  
 101 100  
 103 63.2 51.8 77.8

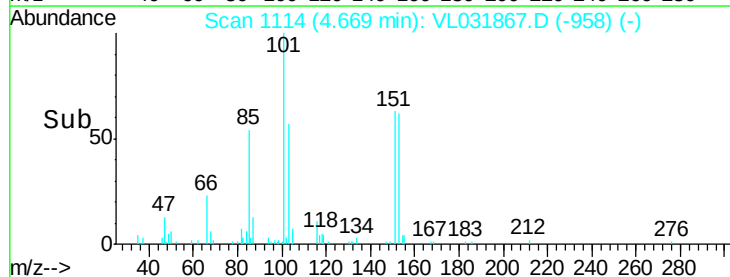
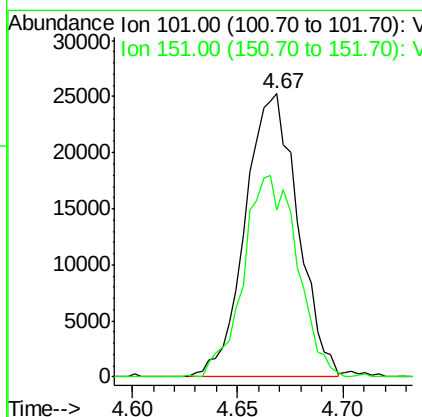
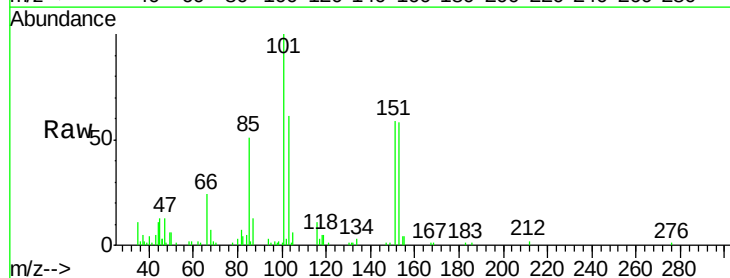
Manual Integrations  
 APPROVED

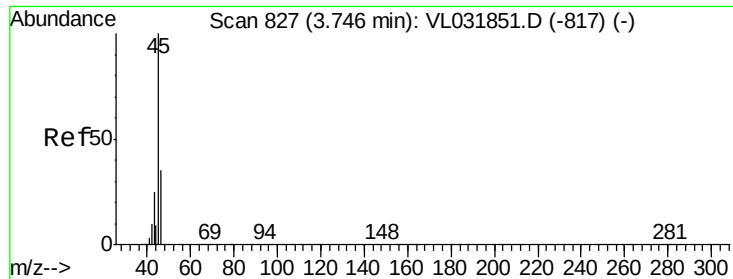
MMDadoda  
 4/15/2018 3:07:23 PM



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 0.281 ppbv  
 RT: 4.67 min Scan# 1114  
 Delta R.T. 0.00 min  
 Lab File: VL031867.D  
 Acq: 12 Apr 2018 16:08

Tgt Ion:101 Resp: 43691  
 Ion Ratio Lower Upper  
 101 100  
 151 72.7 57.0 85.6





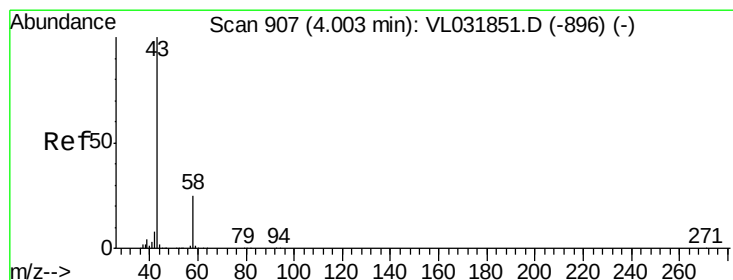
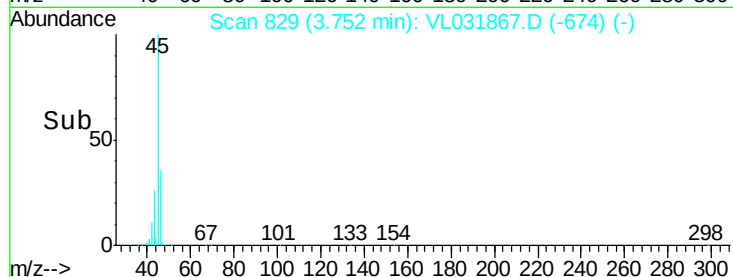
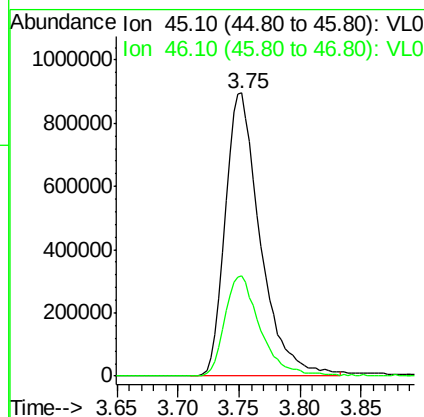
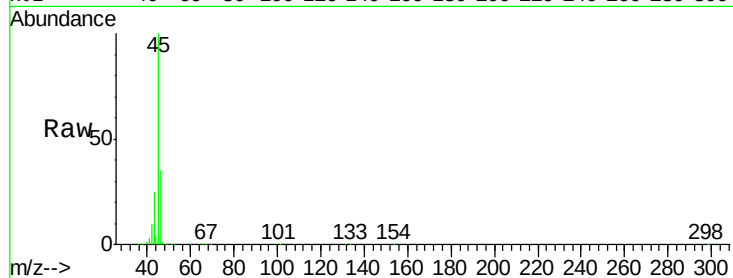
#13  
Ethanol  
Concen: 111.711 ppbv  
RT: 3.75 min Scan# 829  
Delta R.T. -0.00 min  
Lab File: VL031867.D  
Acq: 12 Apr 2018 16:08

Instrument :  
MSVOA\_L  
ClientSampleId :  
GAC-INF-040218

Tot Ion: 45 Resp: 1804551  
Ion Ratio Lower Upper  
45 100  
46 36.1 14.6 58.6

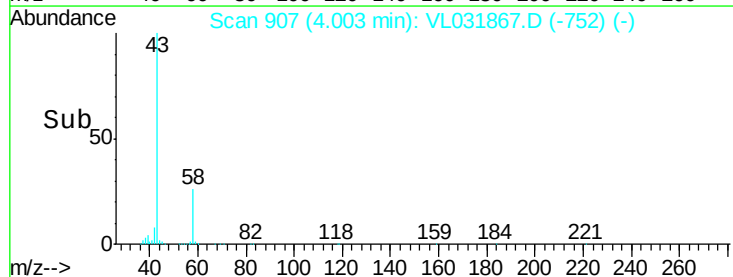
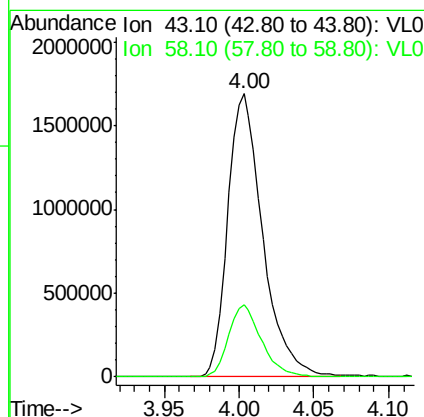
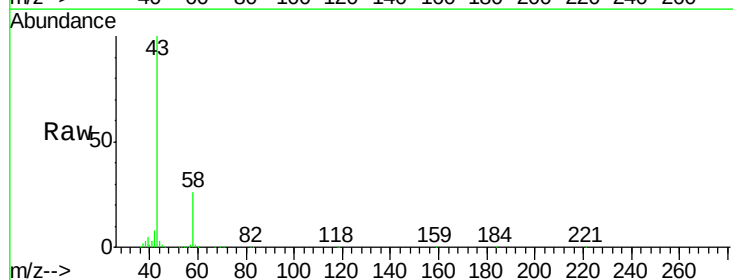
Manual Integrations  
APPROVED

MMDadoda  
4/15/2018 3:07:23 PM

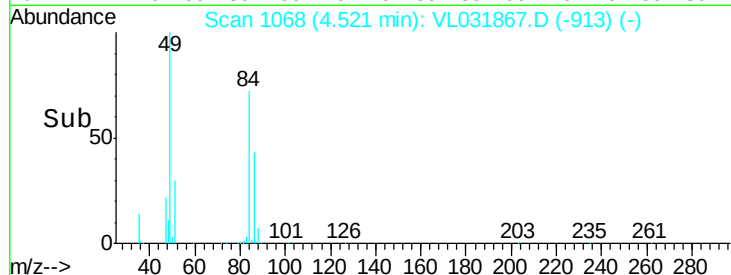
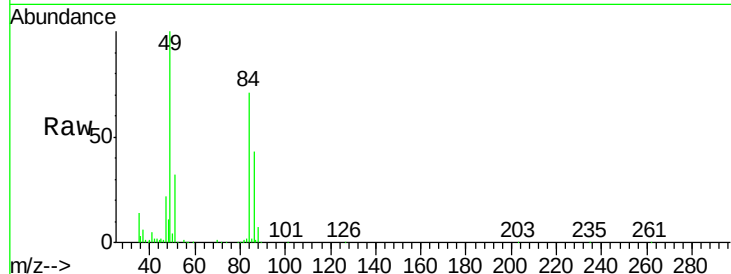
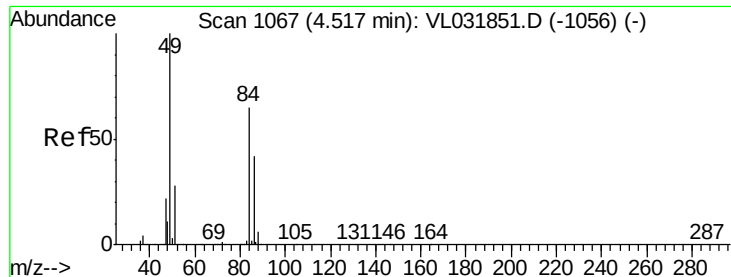


#15  
Acetone  
Concen: 15.048 ppbv  
RT: 4.00 min Scan# 907  
Delta R.T. -0.00 min  
Lab File: VL031867.D  
Acq: 12 Apr 2018 16:08

Tgt Ion: 43 Resp: 2741121  
Ion Ratio Lower Upper  
43 100  
58 24.3 20.9 31.3







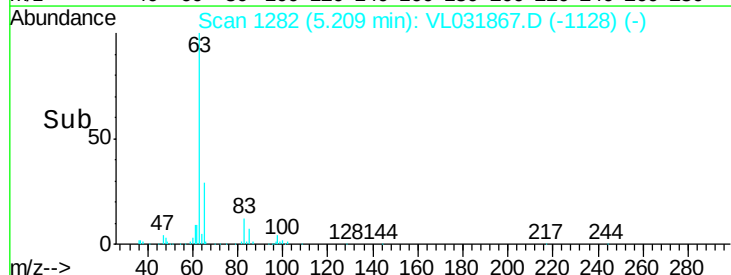
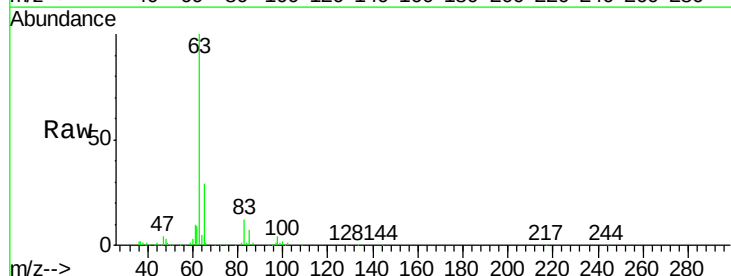
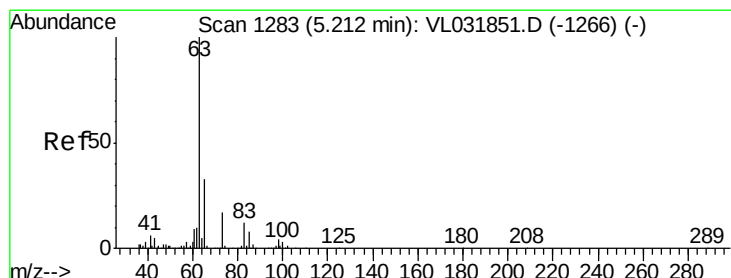
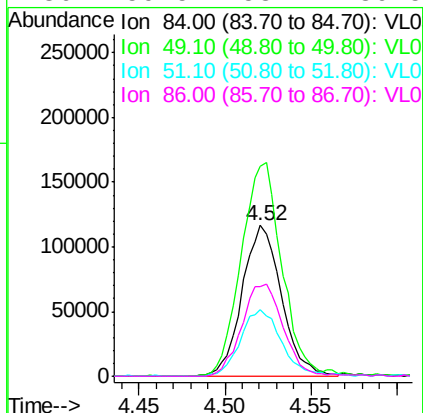
#20  
Methylene Chloride  
Concen: 2.789 ppbv  
RT: 4.52 min Scan# 1068  
Delta R.T. -0.00 min  
Lab File: VL031867.D  
Acq: 12 Apr 2018 16:08

| Tot Ion   | 84    | Resp  | 185047 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 84        | 100   |       |        |
| 49        | 139.6 | 125.6 | 188.4  |
| 51        | 44.6  | 36.4  | 54.6   |
| 86        | 59.5  | 53.7  | 80.5   |

Instrument :  
MSVOA\_L  
ClientSampleId :  
GAC-INF-040218

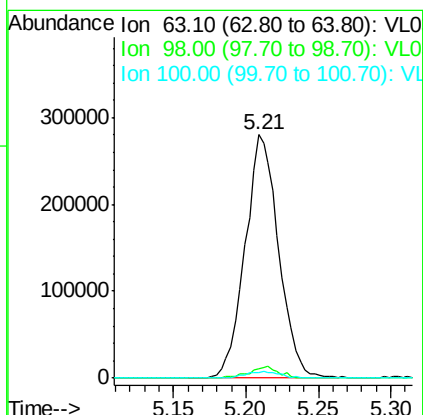
Manual Integrations  
APPROVED

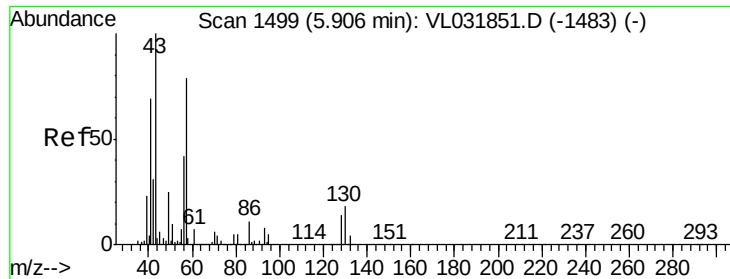
MMDadoda  
4/15/2018 3:07:23 PM



#24  
1,1-Dichloroethane  
Concen: 2.450 ppbv  
RT: 5.21 min Scan# 1282  
Delta R.T. -0.00 min  
Lab File: VL031867.D  
Acq: 12 Apr 2018 16:08

| Tgt Ion   | 63    | Resp  | 450916 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 63        | 100   |       |        |
| 98        | 3.7   | 2.4   | 7.2    |
| 100       | 2.2   | 1.5   | 4.4    |





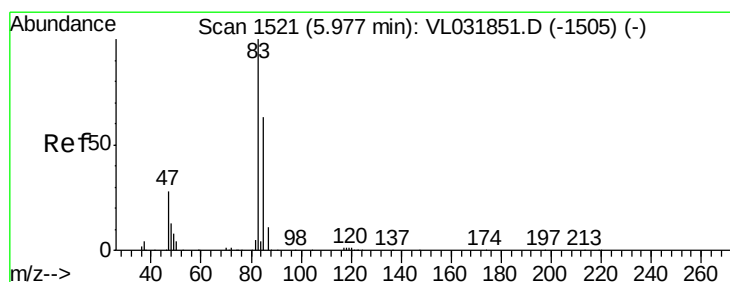
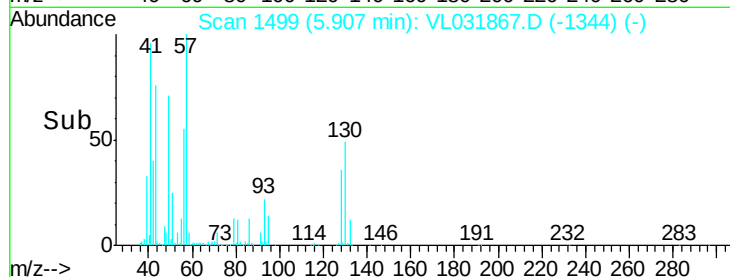
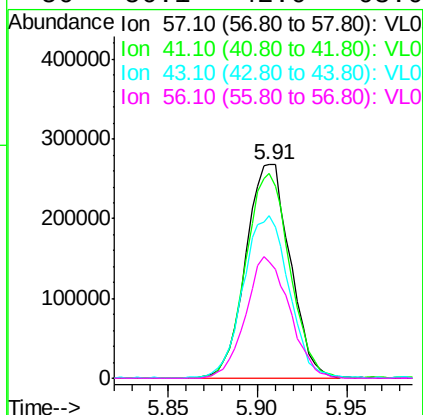
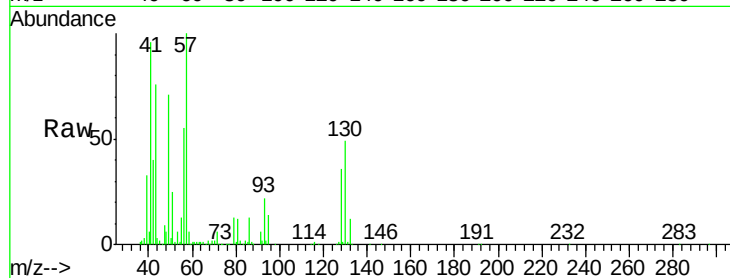
#26  
Hexane  
Concen: 3.518 ppbv  
RT: 5.91 min Scan# 1499  
Delta R.T. -0.00 min  
Lab File: VL031867.D  
Acq: 12 Apr 2018 16:08

Instrument :  
MSVOA\_L  
ClientSampleId :  
GAC-INF-040218

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 57      | 100   |       |        |
| 41      | 95.9  | 72.0  | 108.0  |
| 43      | 79.2  | 169.8 | 254.8# |
| 56      | 56.1  | 42.0  | 63.0   |

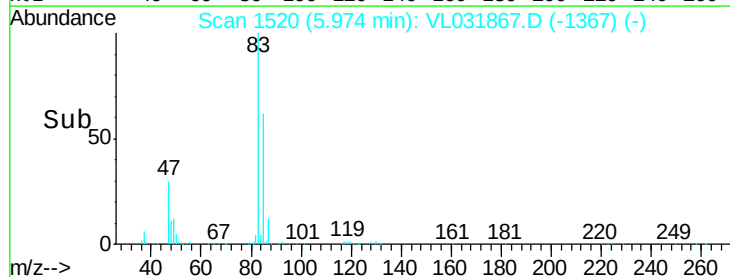
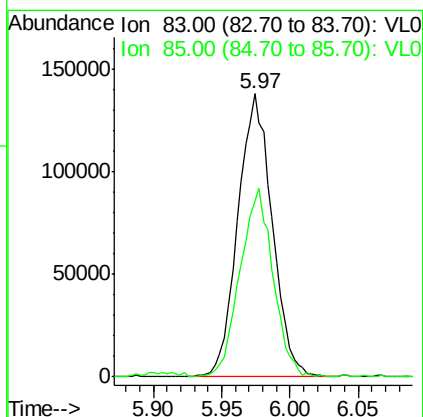
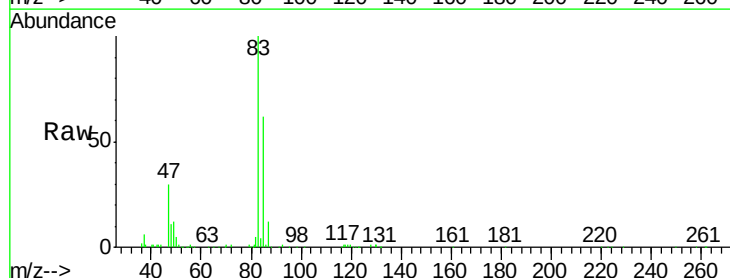
Manual Integrations  
APPROVED

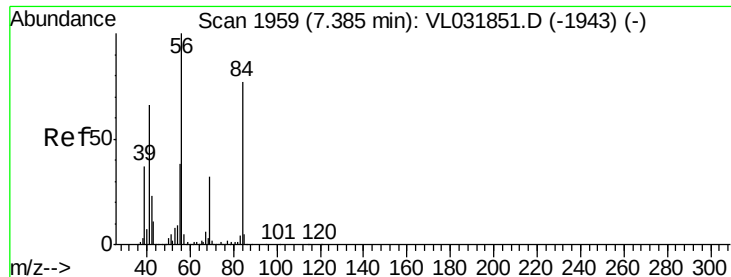
MMDadoda  
4/15/2018 3:07:23 PM



#29  
Chloroform  
Concen: 1.073 ppbv  
RT: 5.97 min Scan# 1520  
Delta R.T. -0.01 min  
Lab File: VL031867.D  
Acq: 12 Apr 2018 16:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 61.8  | 51.4  | 77.0  |





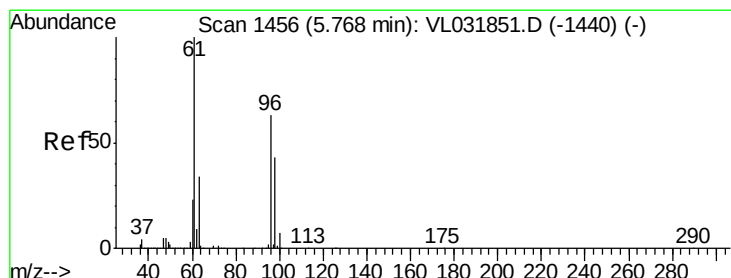
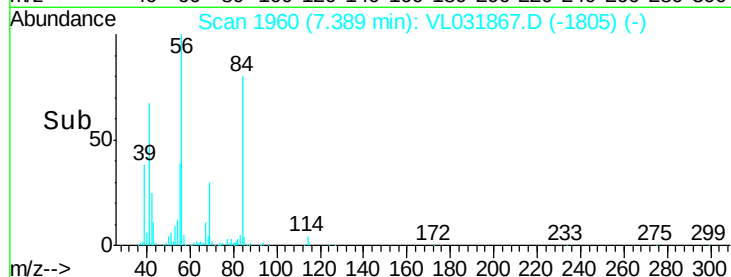
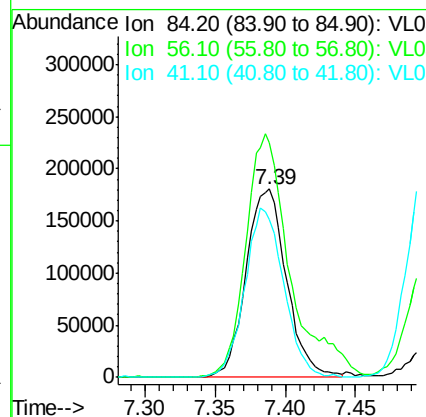
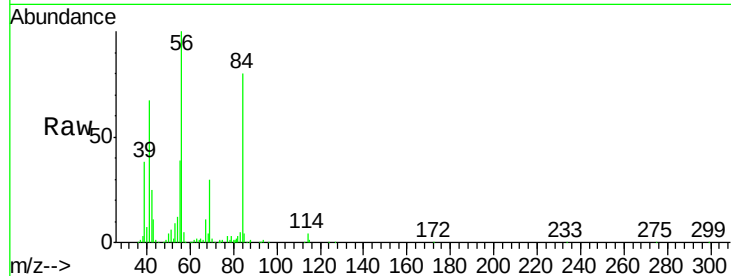
#30  
Cvclohexane  
Concen: 3.841 ppbv  
RT: 7.39 min Scan# 1960  
Delta R.T. -0.00 min  
Lab File: VL031867.D  
Acq: 12 Apr 2018 16:08

Instrument :  
MSVOA\_L  
ClientSampleId :  
GAC-INF-040218

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 84      | 100   |       |       |
| 56      | 142.2 | 107.7 | 161.5 |
| 41      | 86.9  | 68.2  | 102.2 |

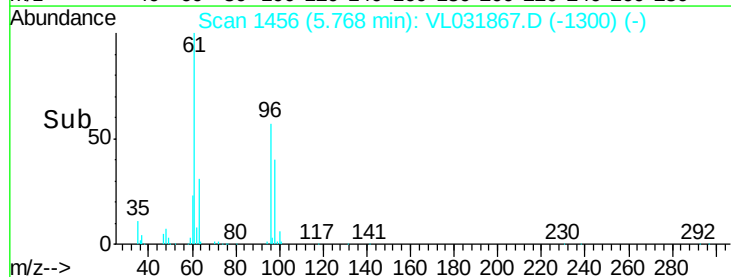
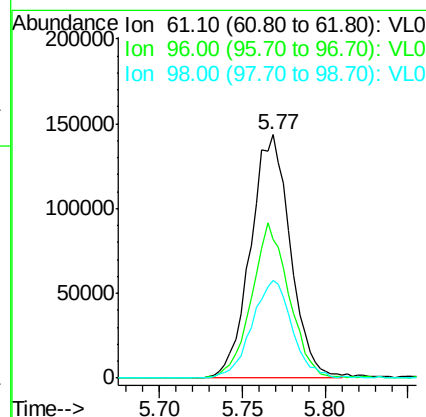
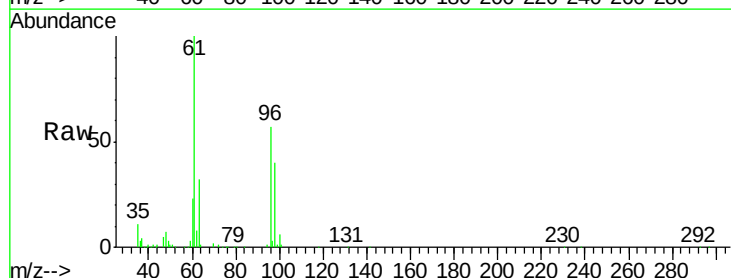
Manual Integrations  
APPROVED

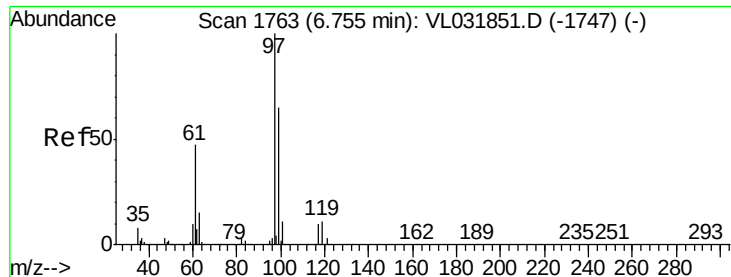
MMDadoda  
4/15/2018 3:07:23 PM



#31  
cis-1,2-Dichloroethene  
Concen: 1.997 ppbv  
RT: 5.77 min Scan# 1456  
Delta R.T. 0.00 min  
Lab File: VL031867.D  
Acq: 12 Apr 2018 16:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 61      | 100   |       |       |
| 96      | 56.7  | 47.6  | 71.4  |
| 98      | 39.9  | 30.3  | 45.5  |





#32

1,1,1-Trichloroethane

Concen: 3.743 ppbv

RT: 6.75 min Scan# 1762

Delta R.T. -0.00 min

Lab File: VL031867.D

Acq: 12 Apr 2018 16:08

Instrument :

MSVOA\_L

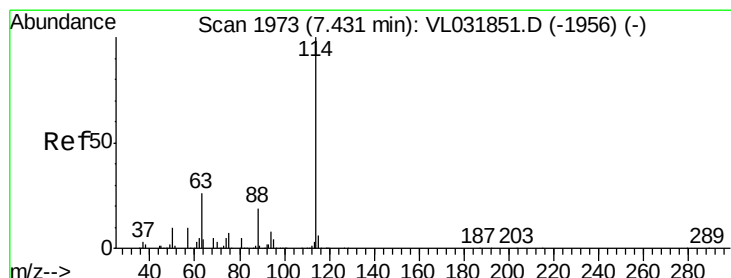
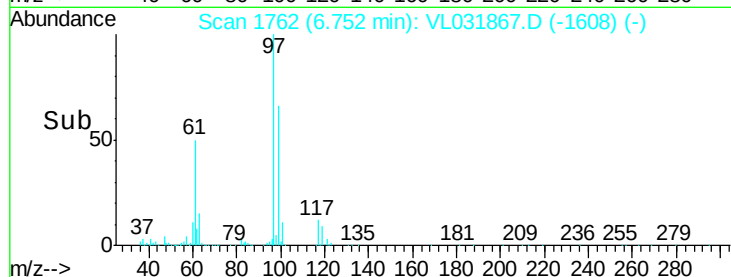
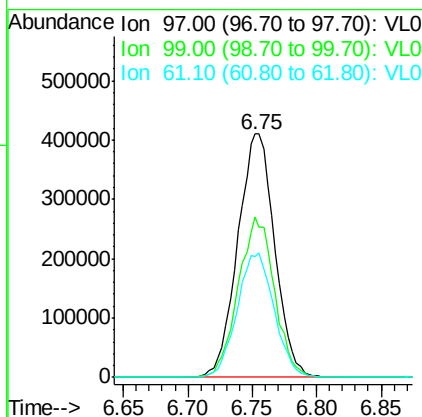
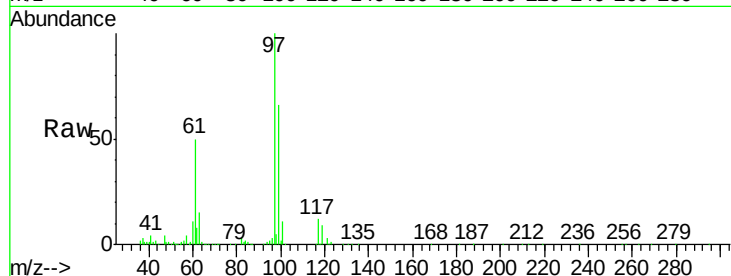
ClientSampleId :

GAC-INF-040218

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 97    | Resp: | 818529 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 99       | 64.5  | 51.5  | 77.3   |
| 61       | 51.1  | 40.0  | 60.0   |

Manual Integrations  
APPROVED

MMDadoda  
4/15/2018 3:07:23 PM



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

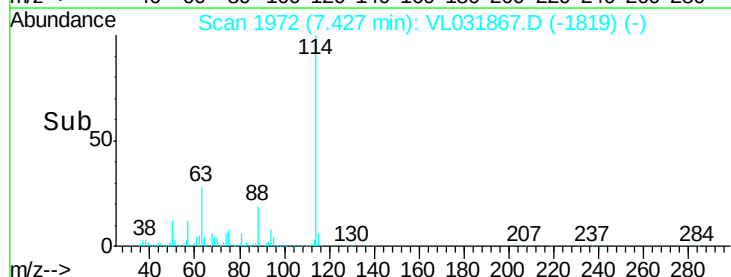
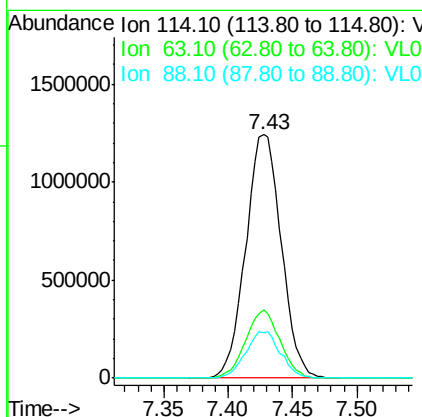
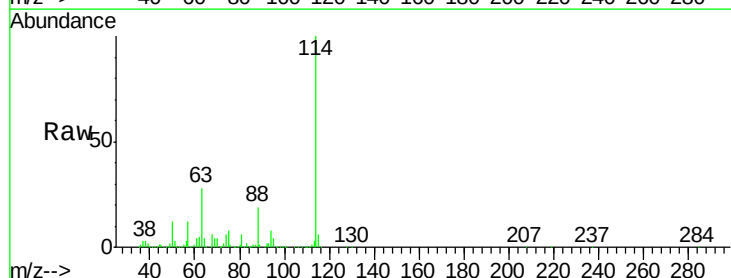
RT: 7.43 min Scan# 1972

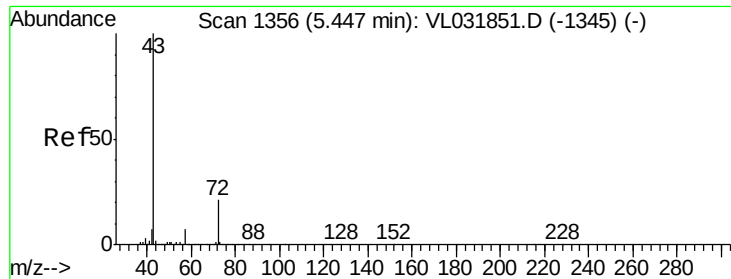
Delta R.T. -0.01 min

Lab File: VL031867.D

Acq: 12 Apr 2018 16:08

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 114   | Resp: | 2388800 |
| Ion      | Ratio | Lower | Upper   |
| 114      | 100   |       |         |
| 63       | 27.4  | 21.8  | 32.6    |
| 88       | 18.8  | 14.6  | 22.0    |





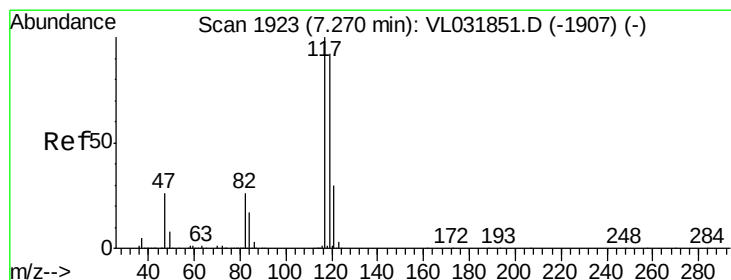
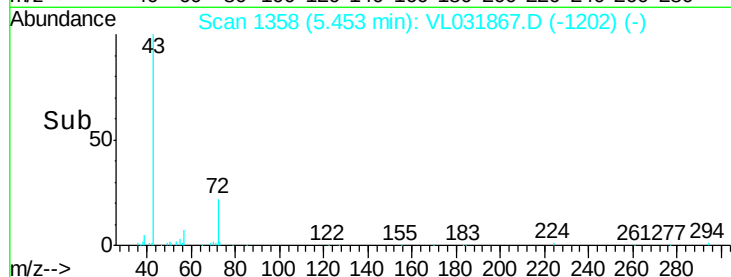
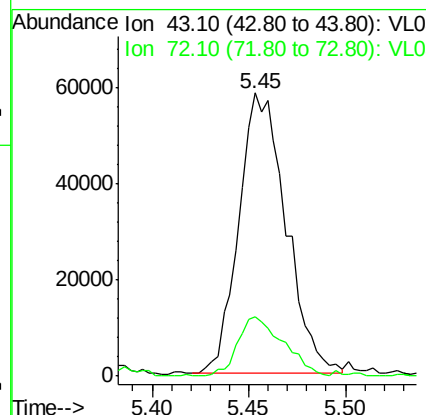
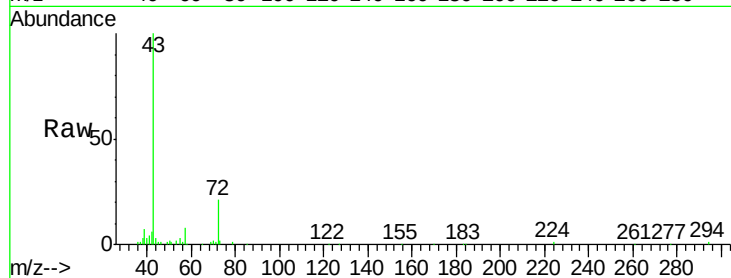
#34  
2-Butanone  
Concen: 0.597 ppbv  
RT: 5.45 min Scan# 1358  
Delta R.T. 0.00 min  
Lab File: VL031867.D  
Acq: 12 Apr 2018 16:08

Instrument :  
MSVOA\_L  
ClientSampleId :  
GAC-INF-040218

| Tot Ion   | 43 | Resp | 98960 |
|-----------|----|------|-------|
| Ion Ratio | 43 | 100  |       |
| Lower     | 72 | 21.1 | 18.6  |
| Upper     |    |      | 27.8  |

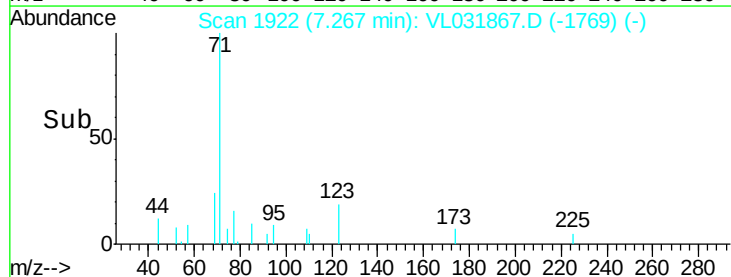
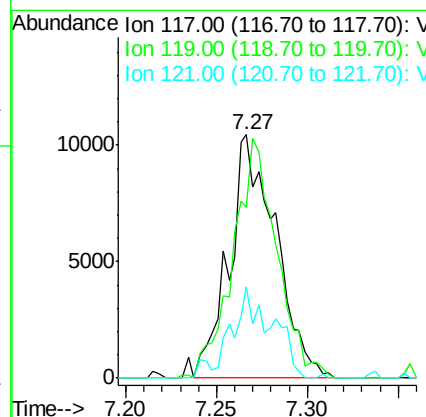
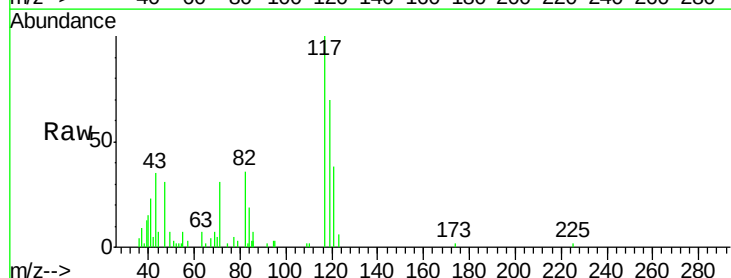
Manual Integrations  
APPROVED

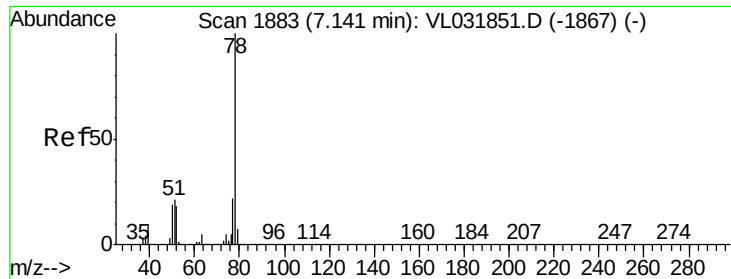
MMDadoda  
4/15/2018 3:07:23 PM



#35  
Carbon Tetrachloride  
Concen: 0.090 ppbv m  
RT: 7.27 min Scan# 1922  
Delta R.T. -0.01 min  
Lab File: VL031867.D  
Acq: 12 Apr 2018 16:08

| Tgt Ion   | 117 | Resp | 18604 |
|-----------|-----|------|-------|
| Ion Ratio | 117 | 100  |       |
| Lower     | 119 | 70.2 | 76.9  |
| Upper     | 121 | 37.5 | 24.5  |





#36

Benzene

Concen: 0.113 ppbv m

RT: 7.14 min Scan# 1884

Delta R.T. -0.00 min

Lab File: VL031867.D

Acq: 12 Apr 2018 16:08

Instrument :

MSVOA\_L

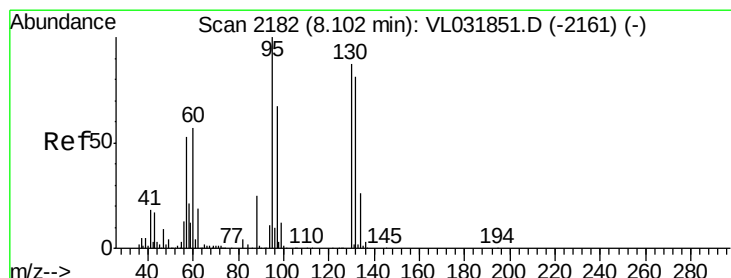
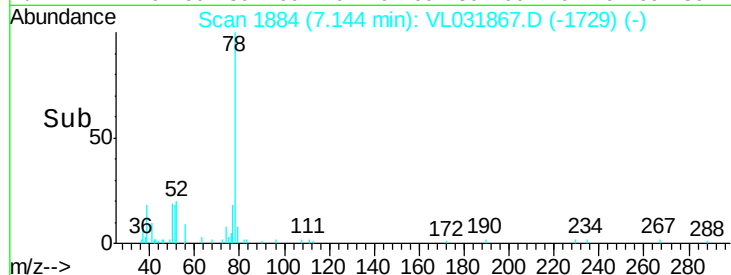
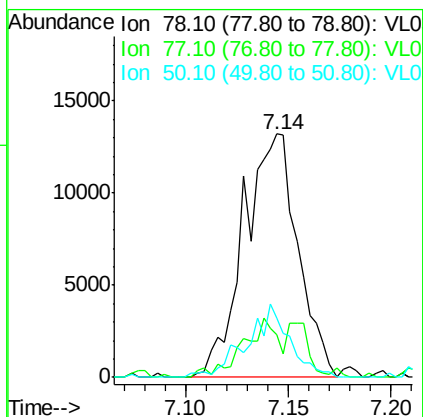
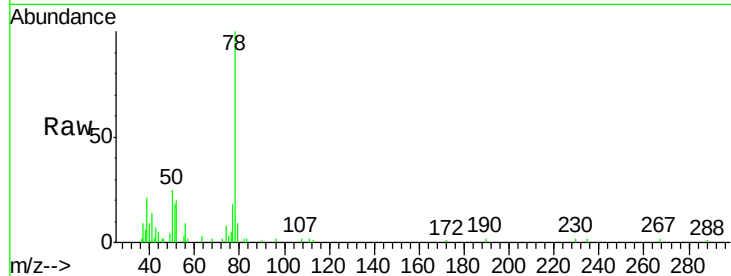
ClientSampleId :

GAC-INF-040218

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 78    | Resp: | 24275 |
| Ion Ratio | Lower | Upper |       |
| 78        | 100   |       |       |
| 77        | 17.6  | 19.2  | 28.8# |
| 50        | 24.6  | 16.7  | 25.1  |

Manual Integrations  
APPROVED

MMDadoda  
4/15/2018 3:07:23 PM



#38

Trichloroethene

Concen: 9.945 ppbv

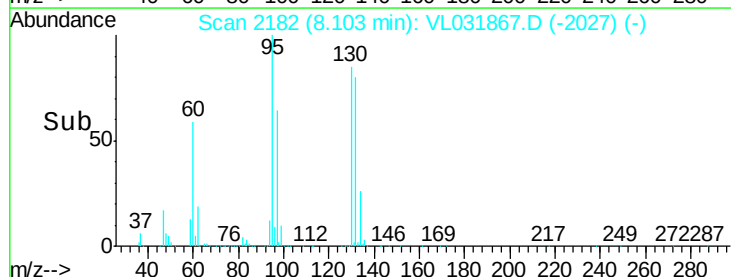
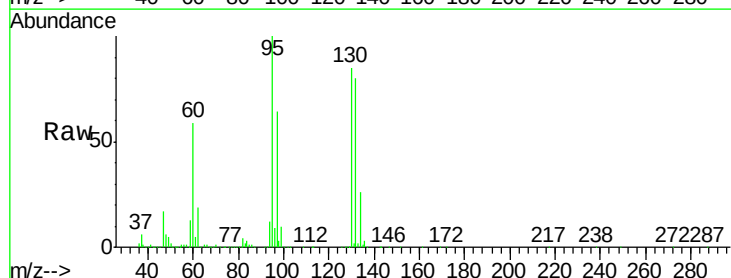
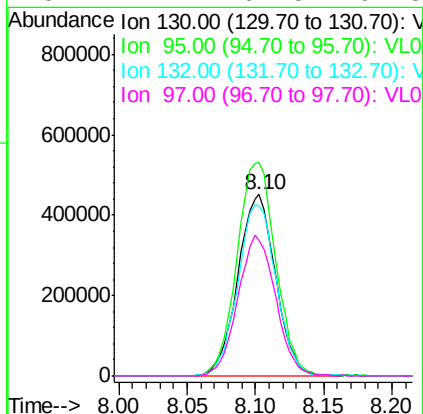
RT: 8.10 min Scan# 2182

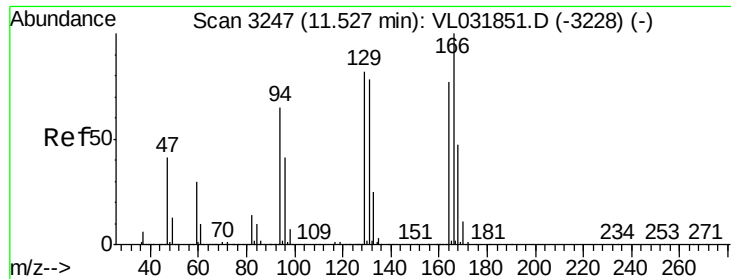
Delta R.T. -0.00 min

Lab File: VL031867.D

Acq: 12 Apr 2018 16:08

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 130   | Resp: | 867389 |
| Ion Ratio | Lower | Upper |        |
| 130       | 100   |       |        |
| 95        | 117.6 | 96.6  | 144.8  |
| 132       | 93.7  | 79.1  | 118.7  |
| 97        | 74.7  | 61.5  | 92.3   |





#52

Tetrachloroethene

Concen: 0.383 ppbv

RT: 11.52 min Scan# 3245

Delta R.T. -0.00 min

Lab File: VL031867.D

Acq: 12 Apr 2018 16:08

Instrument :

MSVOA\_L

ClientSampleId :

GAC-INF-040218

Tot Ion:164 Resp: 32023

Ion Ratio Lower Upper

164 100

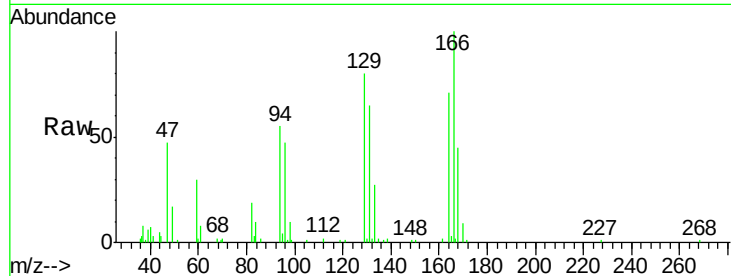
166 139.6 98.2 147.4

129 111.9 86.5 129.7

131 91.7 82.2 123.2

Manual Integrations  
APPROVED

MMDadoda  
4/15/2018 3:07:23 PM

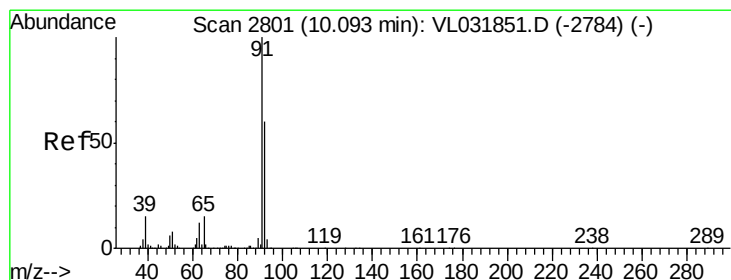
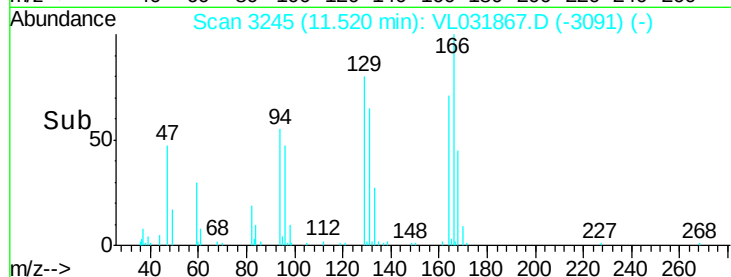
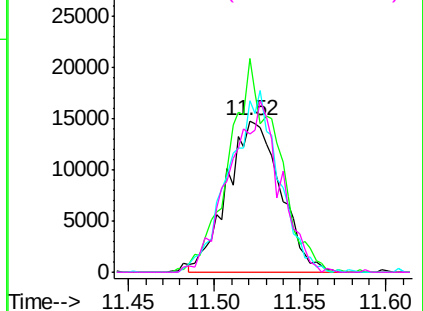


Abundance Ion 163.90 (163.60 to 164.60): V

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: 14.923 ppbv

RT: 10.09 min Scan# 2801

Delta R.T. -0.00 min

Lab File: VL031867.D

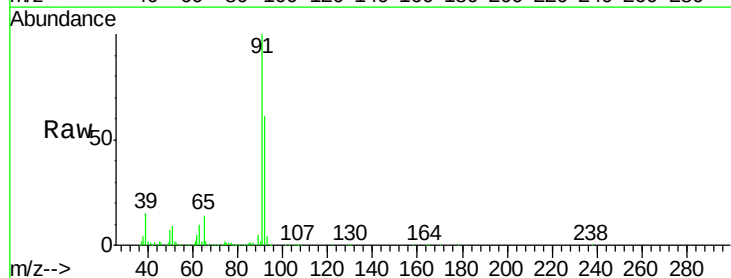
Acq: 12 Apr 2018 16:08

Tgt Ion: 91 Resp: 3575637

Ion Ratio Lower Upper

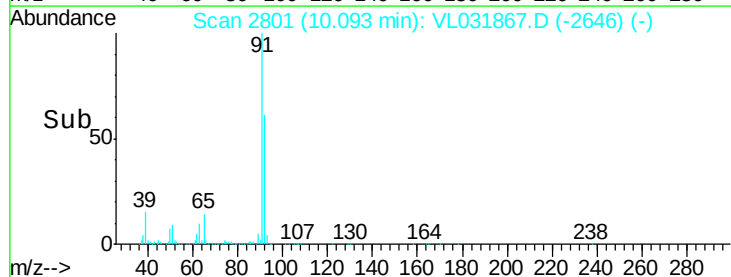
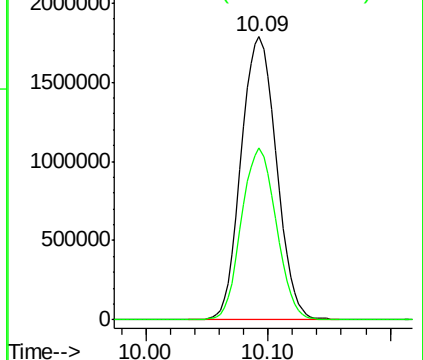
91 100

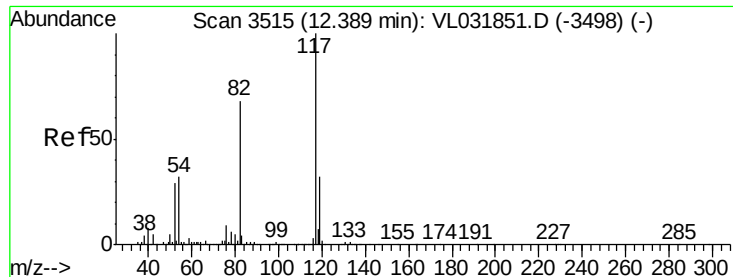
92 60.0 47.4 71.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.39 min Scan# 3515

Delta R.T. -0.00 min

Lab File: VL031867.D

Acq: 12 Apr 2018 16:08

Instrument :

MSVOA\_L

ClientSampleId :

GAC-INF-040218

Tot Ion:117 Resp: 2346802

Ion Ratio Lower Upper

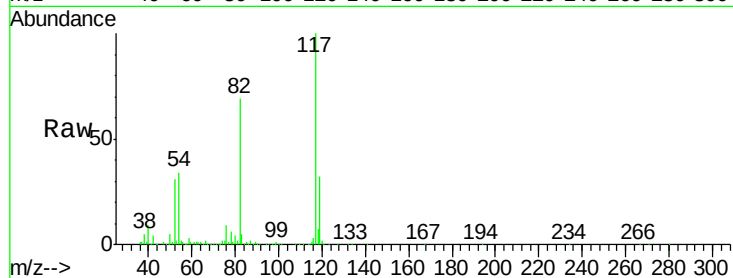
117 100

82 68.8 54.6 81.8

119 32.6 26.0 39.0

Manual Integrations  
APPROVED

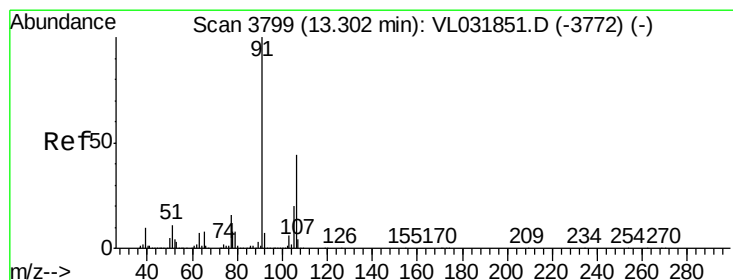
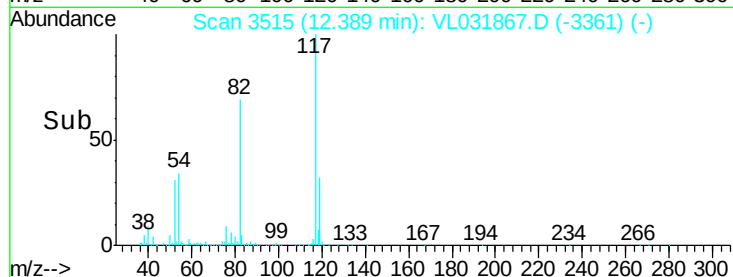
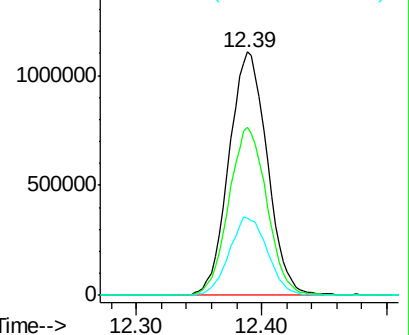
MMDadoda  
4/15/2018 3:07:23 PM



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



#59

m/p-Xylene

Concen: 0.302 ppbv m

RT: 13.27 min Scan# 3788

Delta R.T. -0.04 min

Lab File: VL031867.D

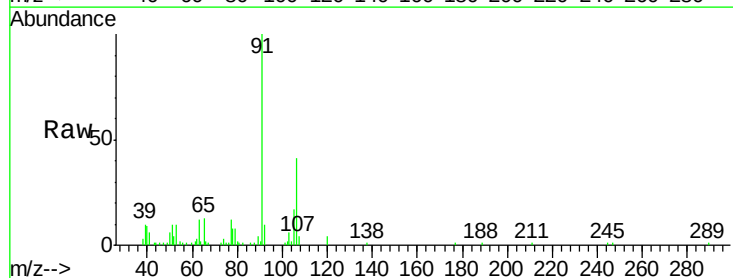
Acq: 12 Apr 2018 16:08

Tgt Ion: 91 Resp: 85578

Ion Ratio Lower Upper

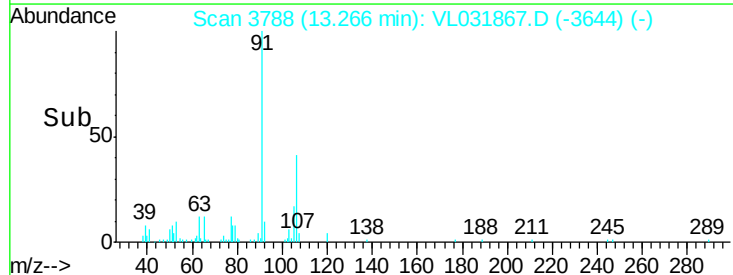
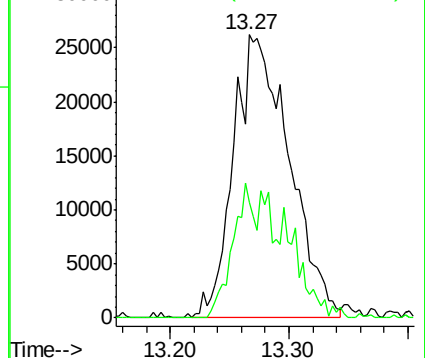
91 100

106 0.0 35.5 53.3#

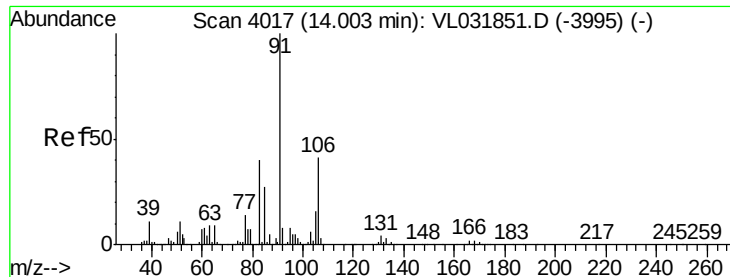


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V







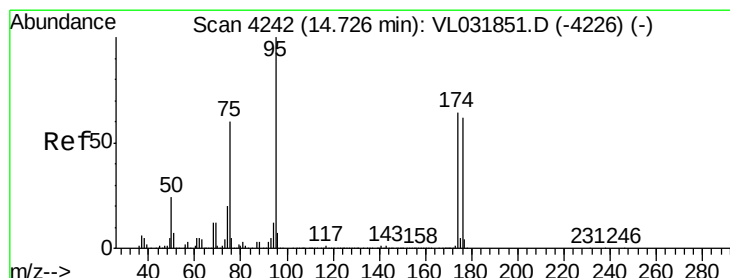
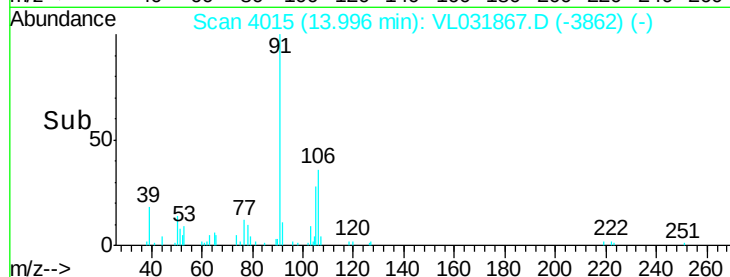
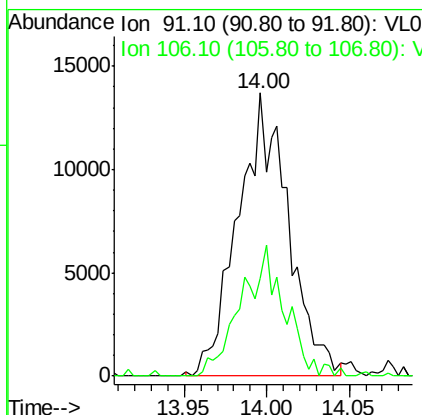
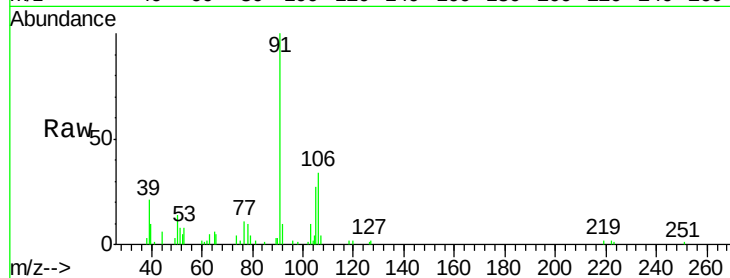
#60  
o-Xylene  
Concen: 0.103 ppbv m  
RT: 14.00 min Scan# 4015  
Delta R.T. -0.01 min  
Lab File: VL031867.D  
Acq: 12 Apr 2018 16:08

Instrument :  
MSVOA\_L  
ClientSampleId :  
GAC-INF-040218

| Tot Ion | Ion  | Ratio | Resp  | Lower | Upper |
|---------|------|-------|-------|-------|-------|
| 91      | 100  |       | 29009 |       |       |
| 106     | 40.5 | 21.3  | 63.9  |       |       |

Manual Integrations  
APPROVED

MMDadoda  
4/15/2018 3:07:23 PM



#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.157 ppbv  
RT: 14.73 min Scan# 4242  
Delta R.T. -0.00 min  
Lab File: VL031867.D  
Acq: 12 Apr 2018 16:08

| Tgt Ion | Ion  | Ratio | Resp    | Lower | Upper |
|---------|------|-------|---------|-------|-------|
| 95      | 100  |       | 1916591 |       |       |
| 174     | 63.6 | 52.3  | 78.5    |       |       |
| 175     | 4.8  | 3.9   | 5.9     |       |       |

