

Data Path : W:\HPCHEM1\MSVOA\_L\DATA\VL051618\  
 Data File : VL032009.D  
 Acq On : 16 May 2018 20:19  
 Operator : SY/AP  
 Sample : J2942-01DL 10X  
 Misc : 400ml/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VZW1DL

Quant Time: May 17 09:06:07 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_L\METHODS\VL050318AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu May 03 15:52:13 2018  
 QLast Update : Thu May 03 15:52:13 2018  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.87  | 49   | 1132541  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.41  | 114  | 2278525  | 10.00 | ppbv  | -0.01    |
| 55) Chlorobenzene-d5    | 12.37 | 117  | 2258002  | 10.00 | ppbv  | -0.02    |

| System Monitoring Compounds |        | R.T.  | QIon     | Response | Conc | Units   | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|------|---------|----------|
| 68) 1-Bromo-4-Fluorobenzene | 14.71  | 95    | 1762090  | 10.06    | ppbv | -0.01   |          |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 100.60% |          |

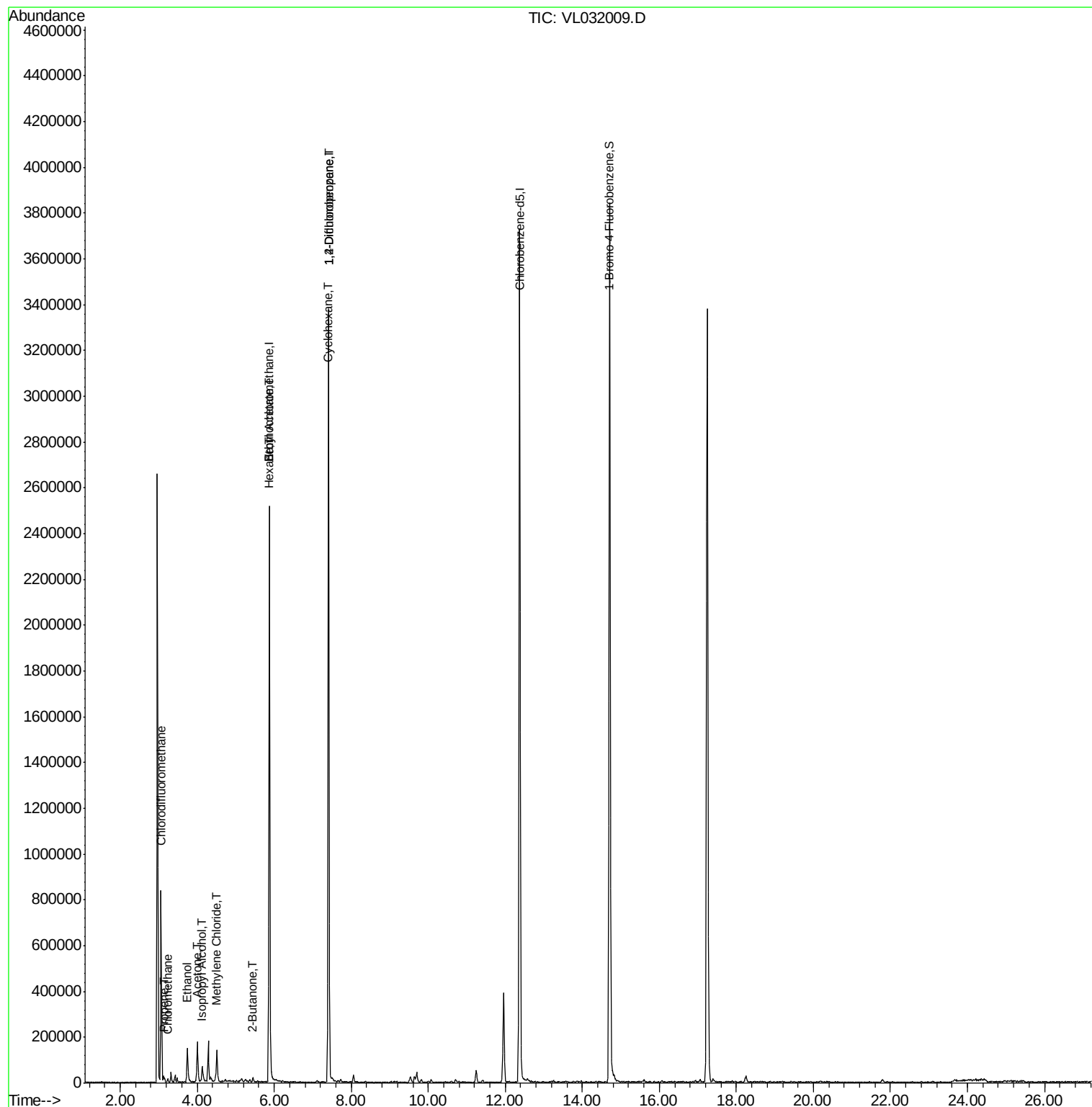
| Target Compounds         | R.T. | QIon | Response | Conc  | Units  | Qvalue |
|--------------------------|------|------|----------|-------|--------|--------|
| 3) Chlorodifluoromethane | 3.06 | 51   | 483031   | 4.53  | ppbv # | 57     |
| 4) Chloromethane         | 3.24 | 50   | 1713     | 0.03  | ppbv   | 94     |
| 9) Propene               | 3.12 | 41   | 1453     | 0.04  | ppbv # | 16     |
| 13) Ethanol              | 3.74 | 45   | 171832   | 11.78 | ppbv # | 100    |
| 15) Acetone              | 4.00 | 43   | 189798   | 1.19  | ppbv   | 95     |
| 19) Isopropyl Alcohol    | 4.13 | 45   | 72413    | 0.84  | ppbv # | 90     |
| 20) Methylene Chloride   | 4.51 | 84   | 44039    | 0.82  | ppbv   | 99     |
| 25) Ethyl Acetate        | 5.88 | 43   | 10975    | 0.04  | ppbv # | 72     |
| 26) Hexane               | 5.89 | 57   | 12010    | 0.09  | ppbv # | 48     |
| 30) Cyclohexane          | 7.40 | 84   | 5566     | 0.06  | ppbv # | 9      |
| 34) 2-Butanone           | 5.45 | 43   | 18832    | 0.10  | ppbv   | 95     |
| 39) 1,2-Dichloropropane  | 7.41 | 63   | 594259   | 7.95  | ppbv # | 23     |

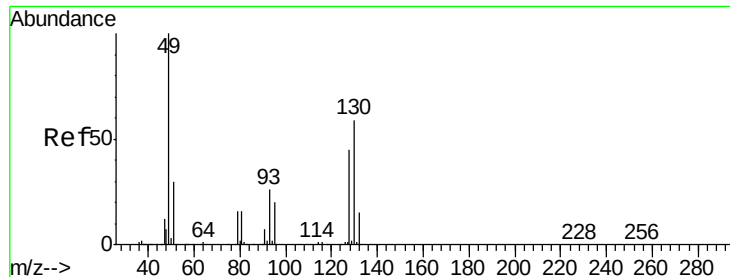
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: May 17 09:06:07 2018  
Quant Method : W:\HPCHEM1\MSVOA\_L\METHODS\VL050318AIR.M  
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QLast Update : Thu May 03 15:52:13 2018  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.87 min Scan# 1489

Delta R.T. -0.01 min

Lab File: VL032009.D

Acq: 16 May 2018 20:19

Instrument :

MSVOA\_L

ClientSampleId :

VZW1DL

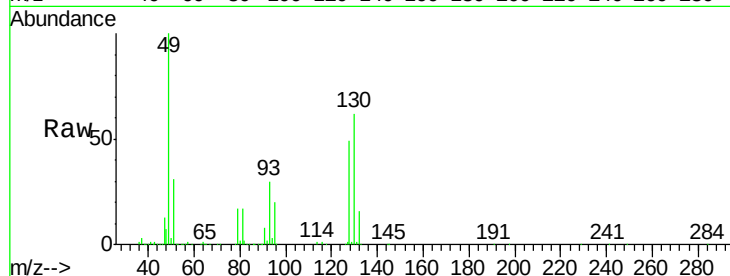
Tgt Ion: 49 Resp: 1132541

Ion Ratio Lower Upper

49 100

128 49.7 24.1 72.3

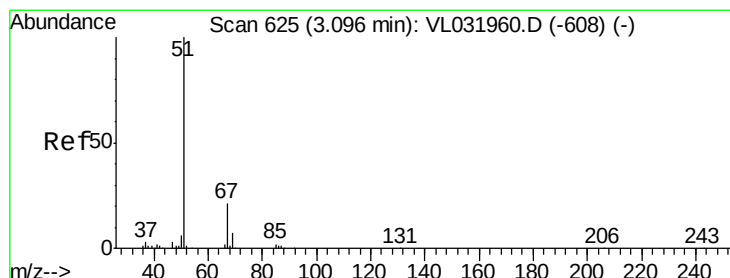
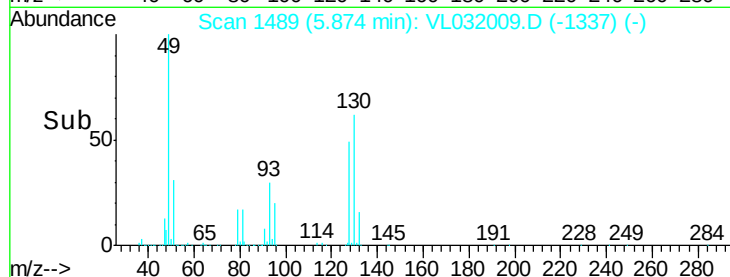
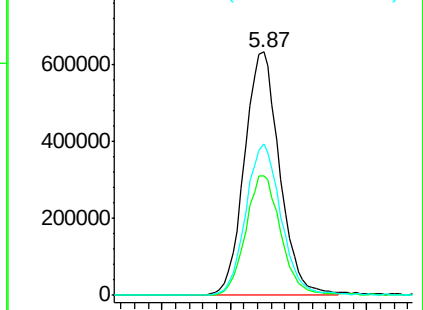
130 62.7 30.7 92.1



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



#3

Chlorodifluoromethane

Concen: 4.53 ppbv

RT: 3.06 min Scan# 615

Delta R.T. -0.03 min

Lab File: VL032009.D

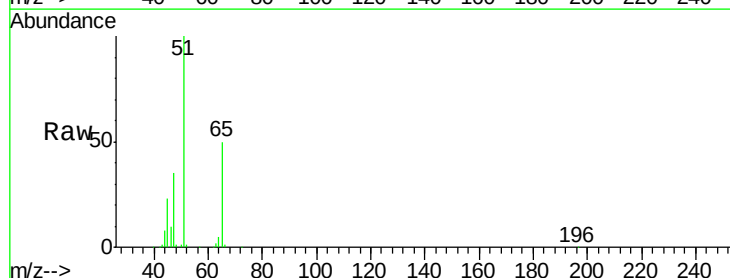
Acq: 16 May 2018 20:19

Tgt Ion: 51 Resp: 483031

Ion Ratio Lower Upper

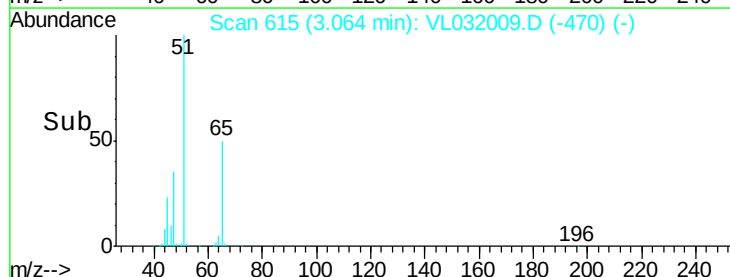
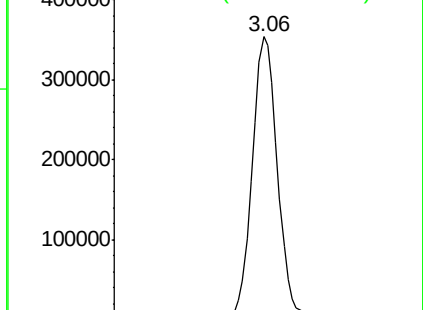
51 100

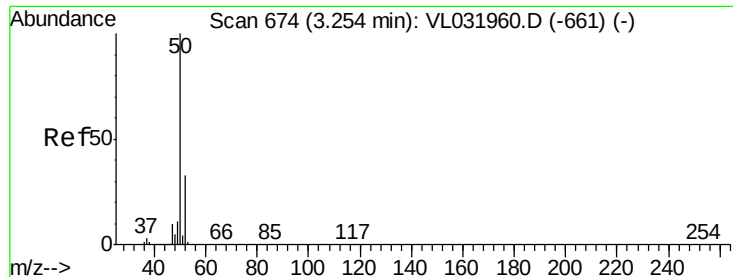
67 0.2 15.9 23.9#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.03 ppbv

RT: 3.24 min Scan# 671

Delta R.T. -0.01 min

Lab File: VL032009.D

Acq: 16 May 2018 20:19

Instrument :

MSVOA\_L

ClientSampleId :

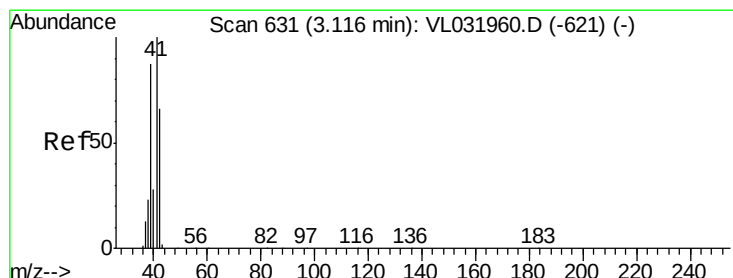
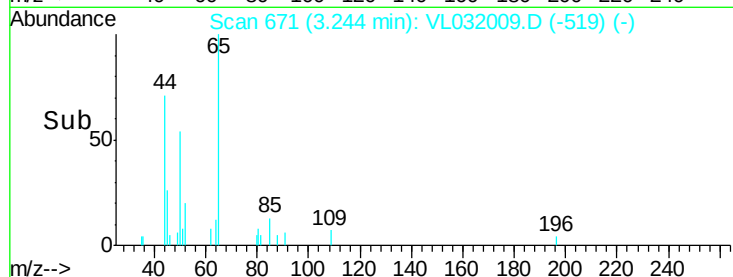
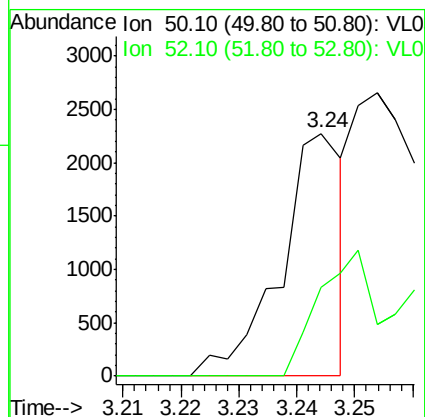
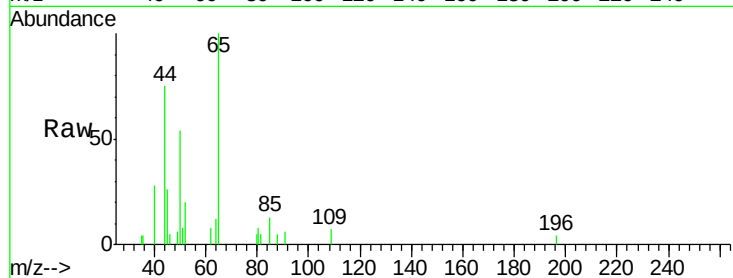
VZW1DL

Tgt Ion: 50 Resp: 1713

Ion Ratio Lower Upper

50 100

52 36.6 26.6 39.8



#9

Propene

Concen: 0.04 ppbv

RT: 3.12 min Scan# 631

Delta R.T. -0.00 min

Lab File: VL032009.D

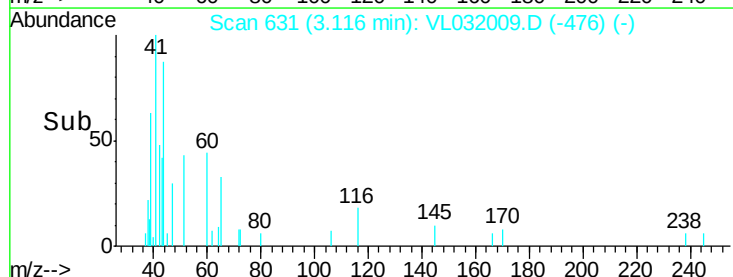
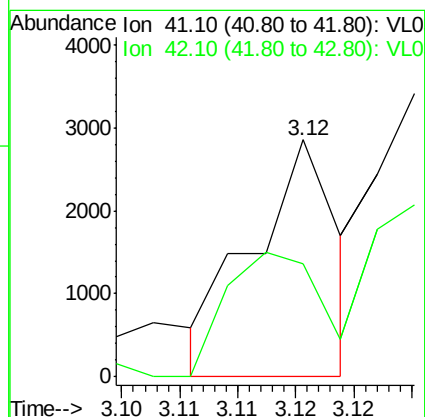
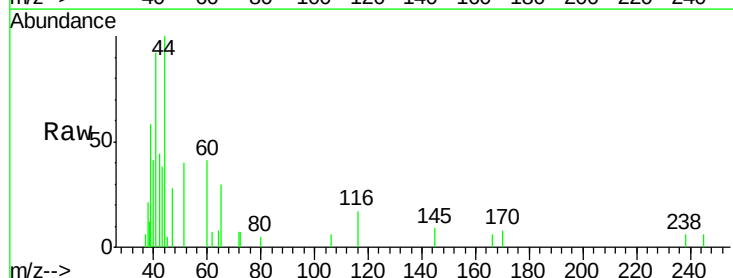
Acq: 16 May 2018 20:19

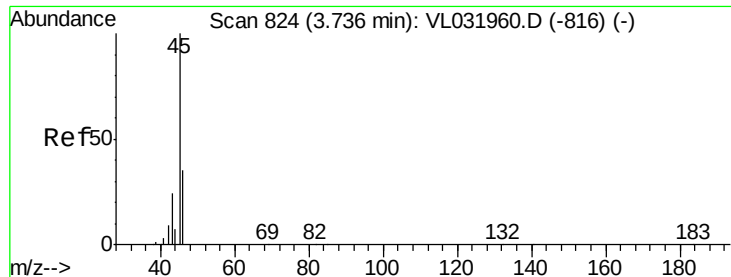
Tgt Ion: 41 Resp: 1453

Ion Ratio Lower Upper

41 100

42 0.0 53.9 80.9#





#13

Ethanol

Concen: 11.78 ppbv

RT: 3.74 min Scan# 826

Delta R.T. 0.01 min

Lab File: VL032009.D

Acq: 16 May 2018 20:19

Instrument :

MSVOA\_L

ClientSampleId :

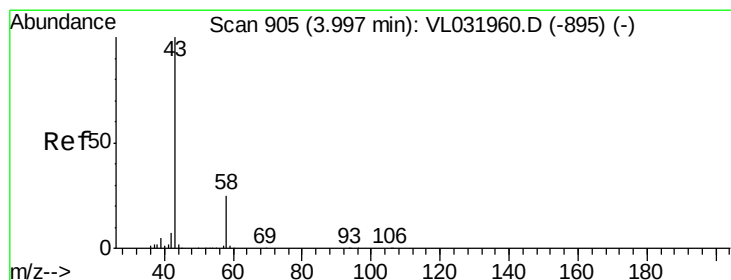
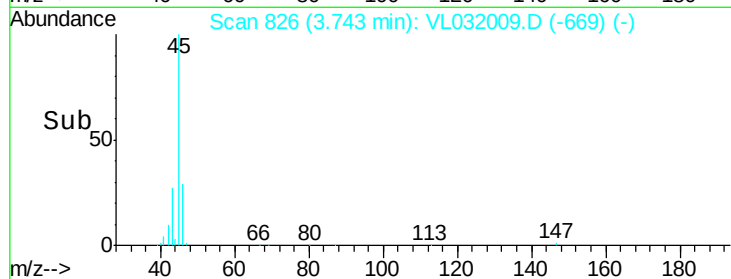
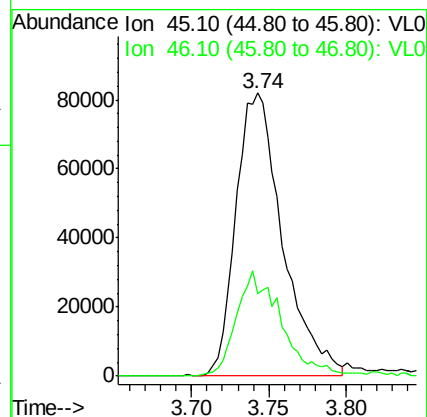
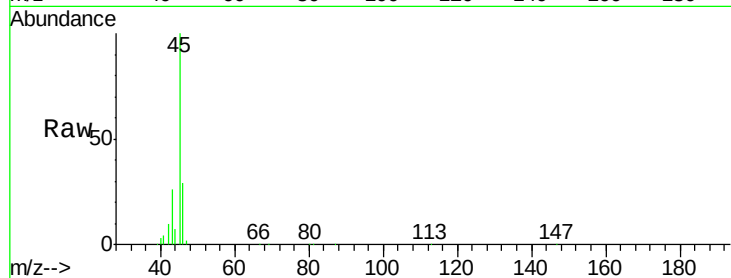
VZW1DL

Tgt Ion: 45 Resp: 171832

Ion Ratio Lower Upper

45 100

46 36.9 0.0 0.0#



#15

Acetone

Concen: 1.19 ppbv

RT: 4.00 min Scan# 906

Delta R.T. 0.00 min

Lab File: VL032009.D

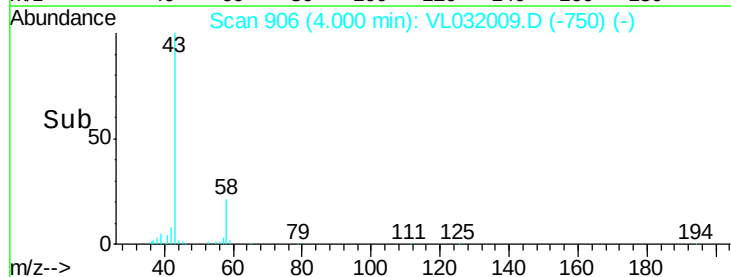
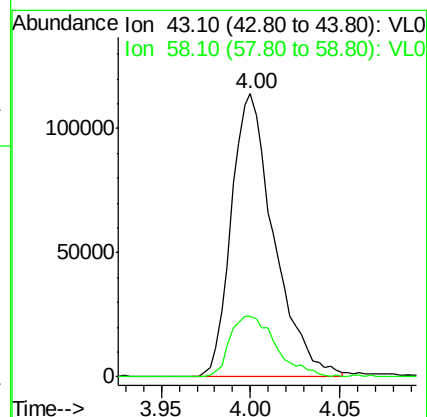
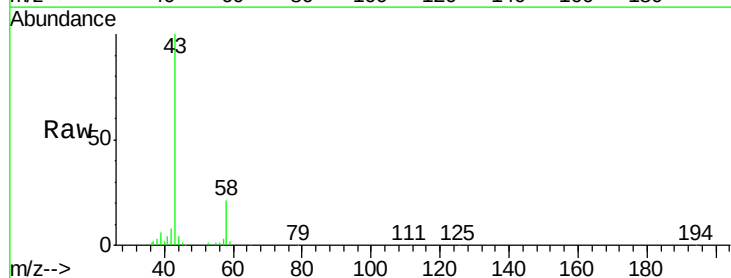
Acq: 16 May 2018 20:19

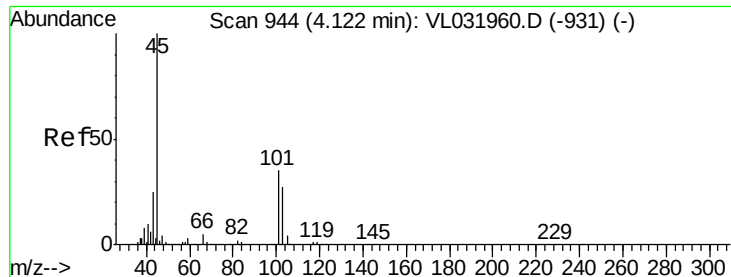
Tgt Ion: 43 Resp: 189798

Ion Ratio Lower Upper

43 100

58 23.6 21.1 31.7





#19

Isopropyl Alcohol

Concen: 0.84 ppbv

RT: 4.13 min Scan# 947

Delta R.T. 0.01 min

Lab File: VL032009.D

Acq: 16 May 2018 20:19

Instrument :

MSVOA\_L

ClientSampleId :

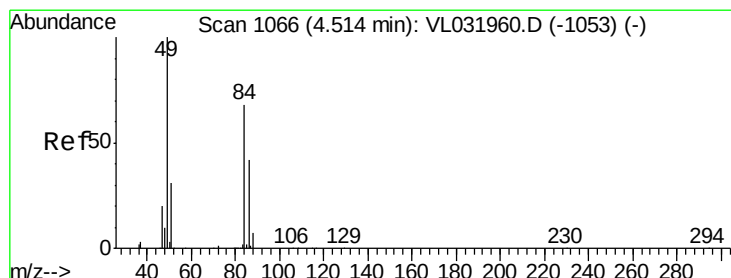
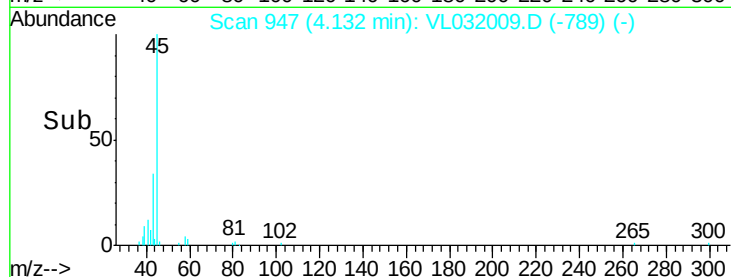
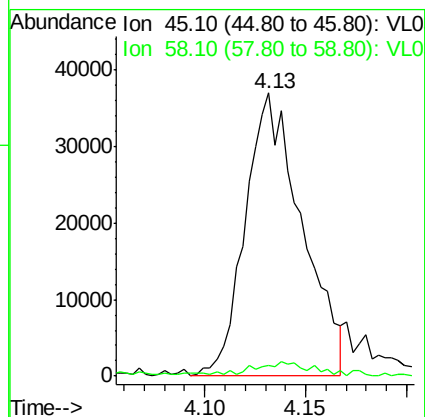
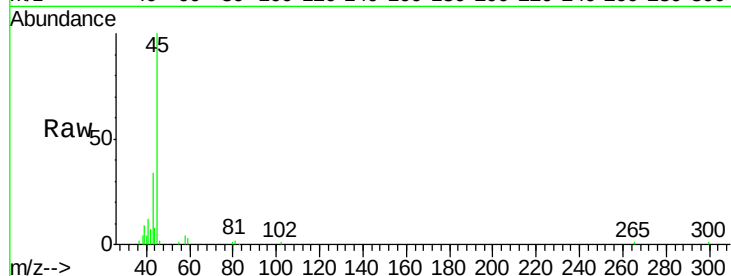
VZW1DL

Tgt Ion: 45 Resp: 72413

Ion Ratio Lower Upper

45 100

58 5.5 1.4 2.2#



#20

Methylene Chloride

Concen: 0.82 ppbv

RT: 4.51 min Scan# 1064

Delta R.T. -0.01 min

Lab File: VL032009.D

Acq: 16 May 2018 20:19

Tgt Ion: 84 Resp: 44039

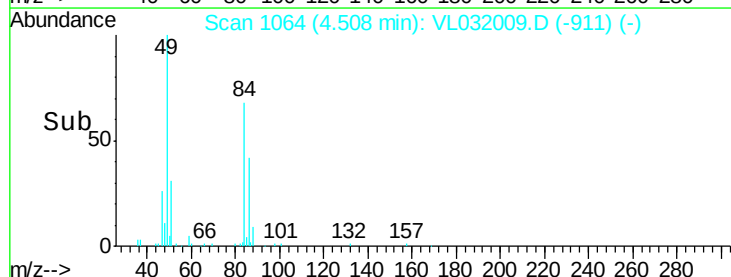
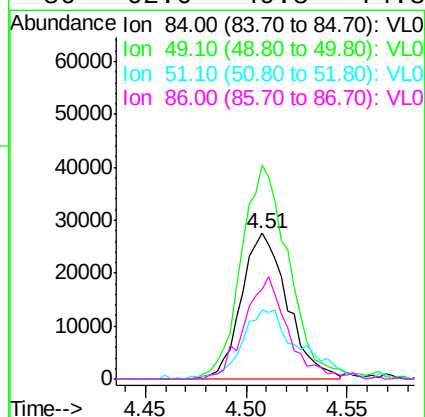
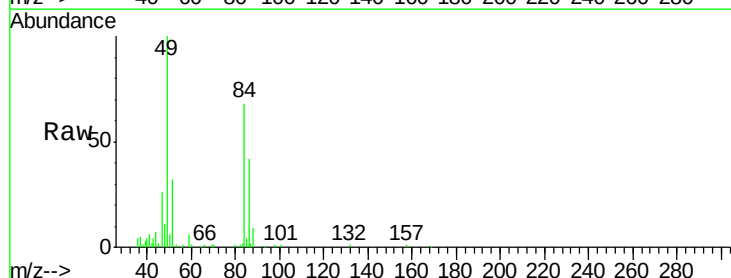
Ion Ratio Lower Upper

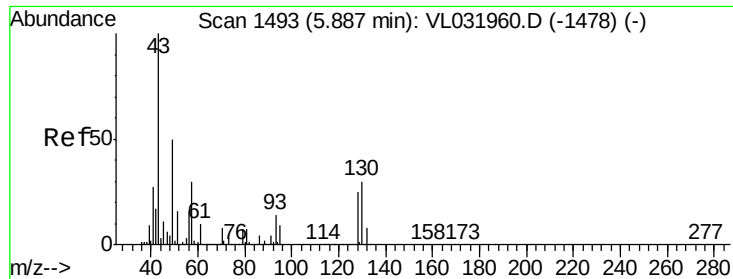
84 100

49 146.9 118.6 178.0

51 46.2 36.6 54.8

86 62.0 49.8 74.8

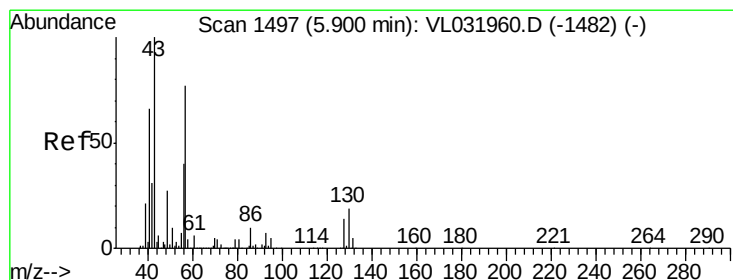
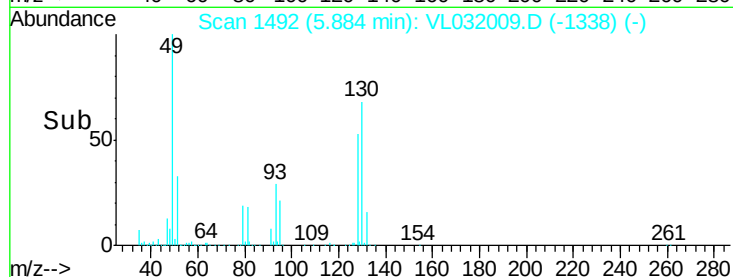
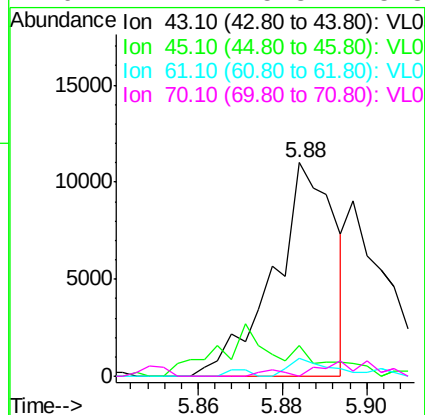
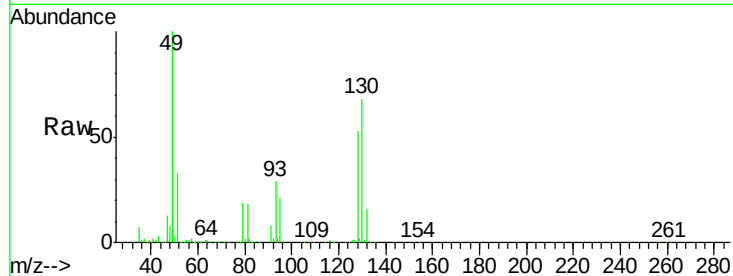




#25  
Ethyl Acetate  
Concen: 0.04 ppbv  
RT: 5.88 min Scan# 1492  
Delta R.T. -0.00 min  
Lab File: VL032009.D  
Acq: 16 May 2018 20:19

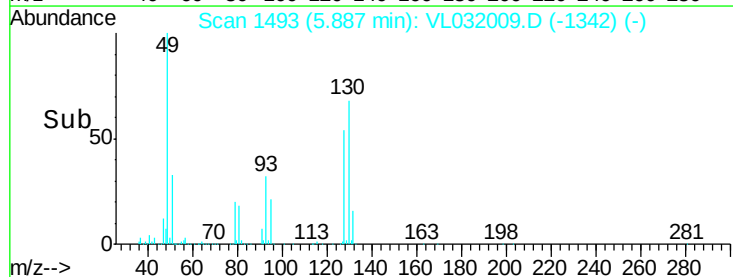
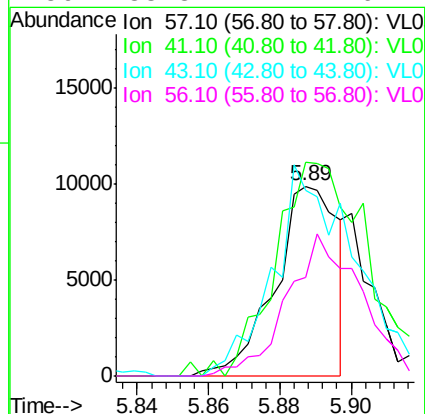
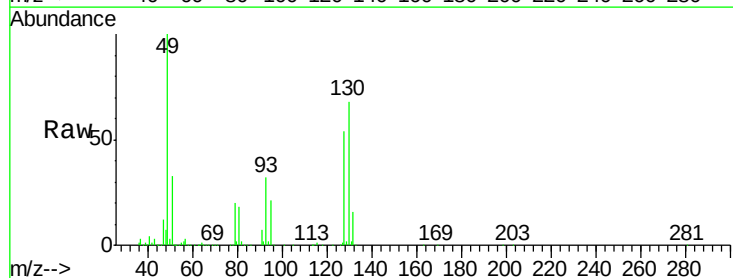
Instrument :  
MSVOA\_L  
ClientSampleId :  
VZW1DL

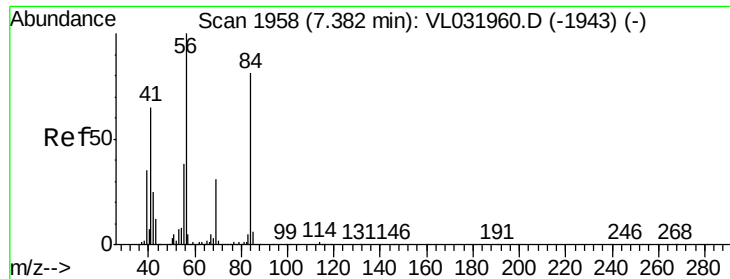
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 10975 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 45       | 31.6  | 7.8   | 11.6# |
| 61       | 7.9   | 7.4   | 11.2  |
| 70       | 2.1   | 5.8   | 8.8#  |



#26  
Hexane  
Concen: 0.09 ppbv  
RT: 5.89 min Scan# 1493  
Delta R.T. -0.01 min  
Lab File: VL032009.D  
Acq: 16 May 2018 20:19

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 57    | Resp: | 12010  |
| Ion      | Ratio | Lower | Upper  |
| 57       | 100   |       |        |
| 41       | 167.2 | 71.8  | 107.6# |
| 43       | 151.2 | 171.5 | 257.3# |
| 56       | 88.3  | 41.4  | 62.2#  |

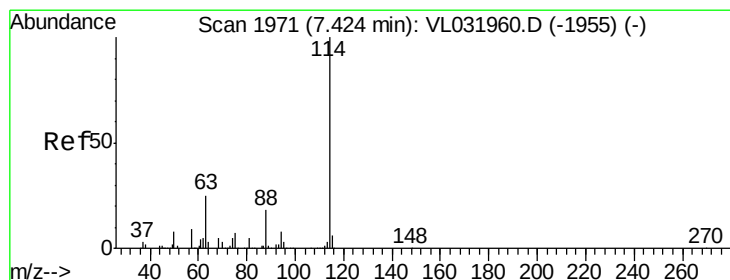
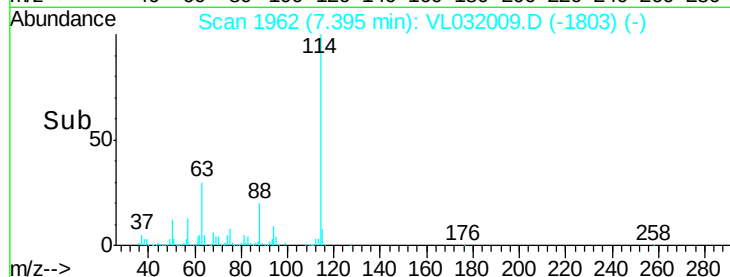
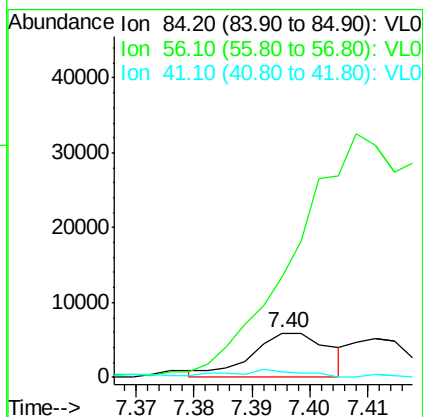
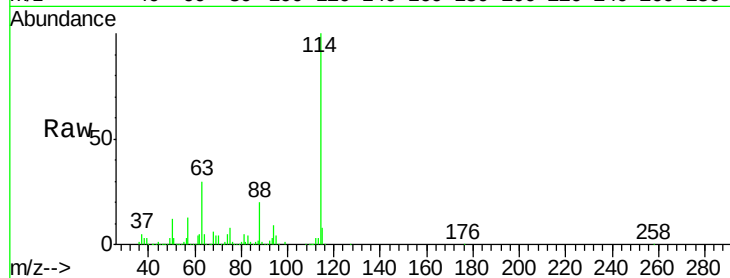




#30  
Cyclohexane  
Concen: 0.06 ppbv  
RT: 7.40 min Scan# 1962  
Delta R.T. 0.01 min  
Lab File: VL032009.D  
Acq: 16 May 2018 20:19

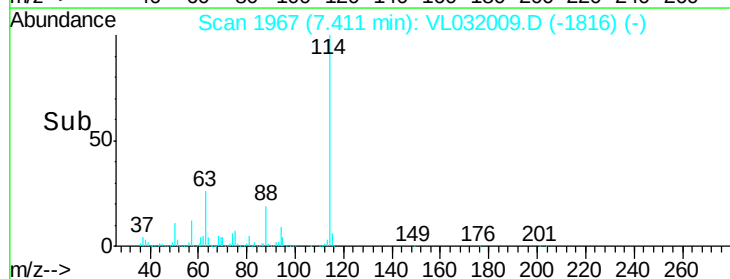
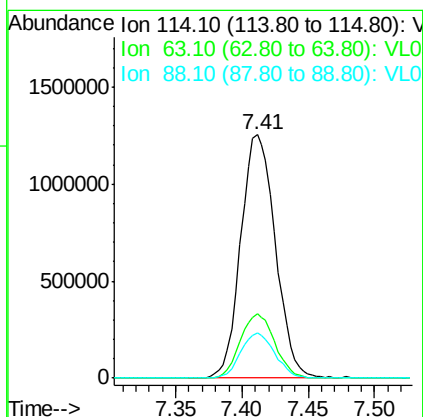
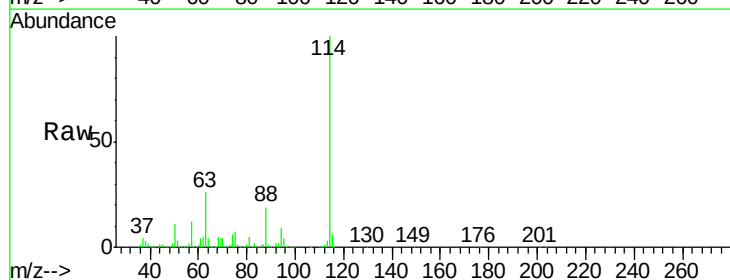
Instrument :  
MSVOA\_L  
ClientSampleId :  
VZW1DL

Tgt Ion: 84 Resp: 5566  
Ion Ratio Lower Upper  
84 100  
56 0.0 108.0 162.0#  
41 33.8 66.8 100.2#

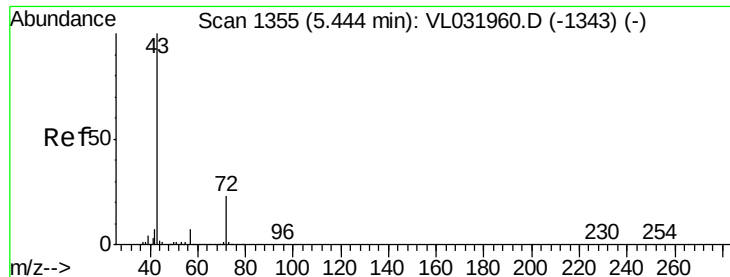


#33  
1,4-Difluorobenzene  
Concen: 10.00 ppbv  
RT: 7.41 min Scan# 1967  
Delta R.T. -0.01 min  
Lab File: VL032009.D  
Acq: 16 May 2018 20:19

Tgt Ion: 114 Resp: 2278525  
Ion Ratio Lower Upper  
114 100  
63 26.4 20.8 31.2  
88 18.3 14.6 21.8



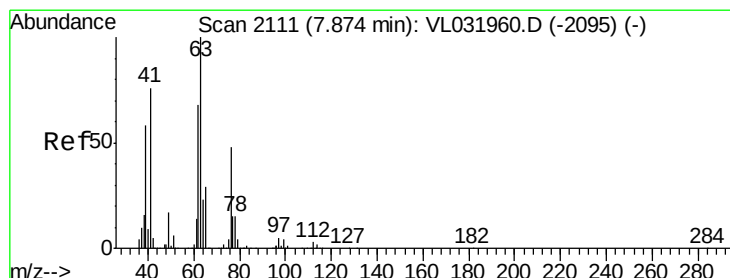
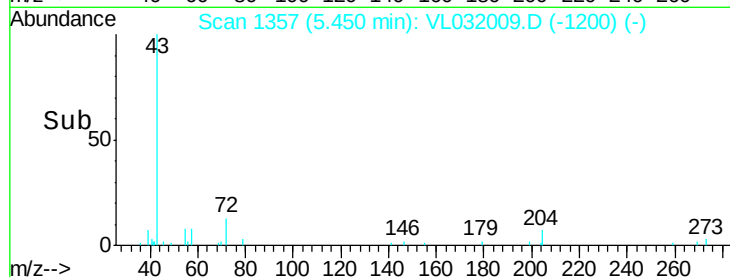
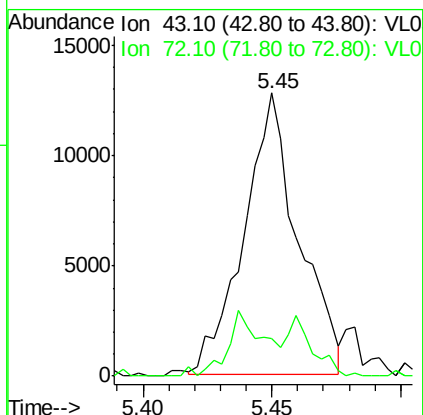
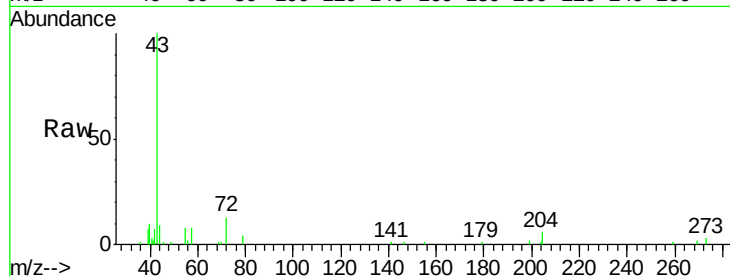




#34  
 2-Butanone  
 Concen: 0.10 ppbv  
 RT: 5.45 min Scan# 1357  
 Delta R.T. 0.01 min  
 Lab File: VL032009.D  
 Acq: 16 May 2018 20:19

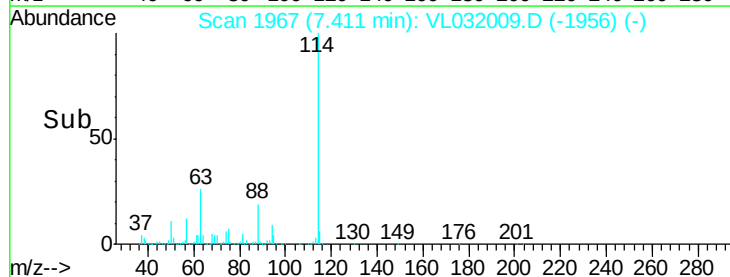
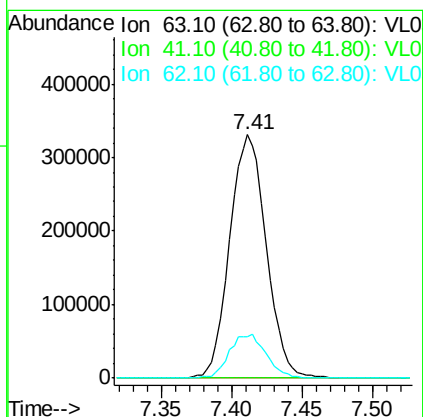
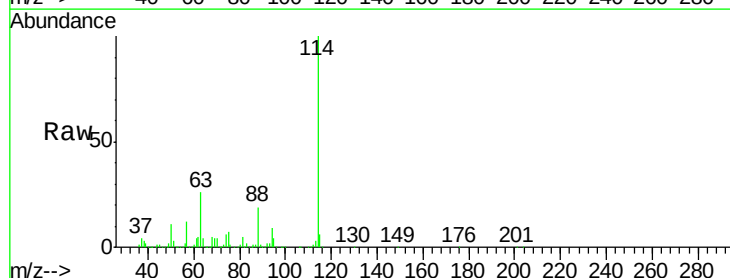
Instrument :  
 MSVOA\_L  
 ClientSampleID :  
 VZW1DL

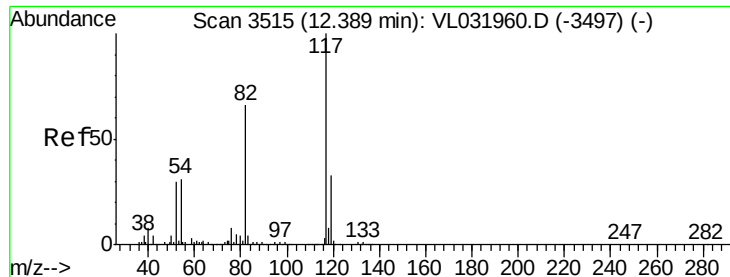
Tgt Ion: 43 Resp: 18832  
 Ion Ratio Lower Upper  
 43 100  
 72 25.5 18.3 27.5



#39  
 1,2-Dichloropropane  
 Concen: 7.95 ppbv  
 RT: 7.41 min Scan# 1967  
 Delta R.T. -0.46 min  
 Lab File: VL032009.D  
 Acq: 16 May 2018 20:19

Tgt Ion: 63 Resp: 594259  
 Ion Ratio Lower Upper  
 63 100  
 41 0.2 60.7 91.1#  
 62 17.0 54.7 82.1#

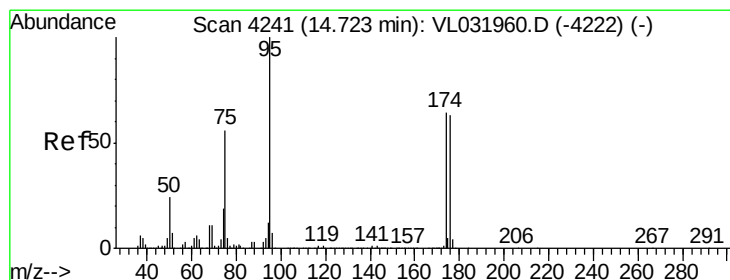
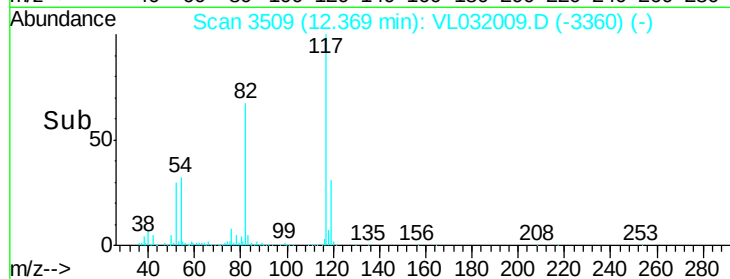
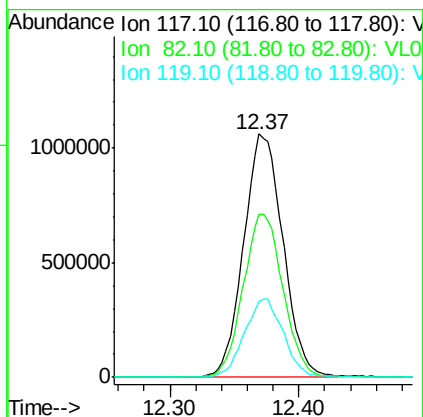
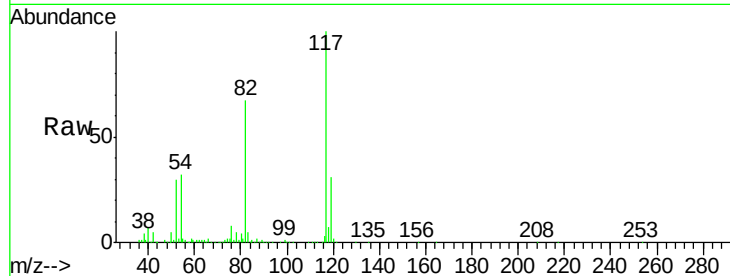




#55  
Chlorobenzene-d5  
Concen: 10.00 ppbv  
RT: 12.37 min Scan# 3509  
Delta R.T. -0.02 min  
Lab File: VL032009.D  
Acq: 16 May 2018 20:19

Instrument :  
MSVOA\_L  
ClientSampleId :  
VZW1DL

Tgt Ion: 117 Resp: 2258002  
Ion Ratio Lower Upper  
117 100  
82 68.1 51.6 77.4  
119 32.1 44.2 66.4#



#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.06 ppbv  
RT: 14.71 min Scan# 4237  
Delta R.T. -0.01 min  
Lab File: VL032009.D  
Acq: 16 May 2018 20:19

Tgt Ion: 95 Resp: 1762090  
Ion Ratio Lower Upper  
95 100  
174 66.5 53.0 79.6  
175 4.7 3.9 5.9

