

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL073021\  
 Data File : VL037301.D  
 Acq On : 31 Jul 2021 3:19  
 Operator : SY/AP  
 Sample : M3121-02  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA-BEDROOM-3

Manual Integrations  
 APPROVED

MMDadoda  
 8/2/2021 8:58:26 AM

Quant Time: Jul 31 07:50:25 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL073021AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Jul 31 07:50:25 2021  
 QLast Update : Fri Jul 30 23:19:30 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.66  | 49   | 1156535  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.17  | 114  | 3585389  | 10.00 | ppbv  | -0.01    |
| 55) Chlorobenzene-d5    | 12.09 | 117  | 3181136  | 10.00 | ppbv  | -0.01    |

| System Monitoring Compounds |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.42  | 95    | 2259801  | 9.76     | ppbv | -0.01  |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 97.60% |

| Target Compounds           | R.T.  | QIon | Response | Conc   | Units  | Ovalue |
|----------------------------|-------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane | 3.04  | 85   | 48933    | 0.294  | ppbv   | 92     |
| 3) Chlorodifluoromethane   | 2.98  | 51   | 533590   | 2.302  | ppbv # | 89     |
| 4) Chloromethane           | 3.13  | 50   | 38565    | 0.477  | ppbv   | 97     |
| 9) Propene                 | 3.02  | 41   | 31456    | 0.403  | ppbv   | 90     |
| 11) Trichlorofluoromethane | 3.94  | 101  | 49244    | 0.238  | ppbv   | 95     |
| 13) Ethanol                | 3.61  | 45   | 231035   | 13.484 | ppbv   | 99     |
| 15) Acetone                | 3.84  | 43   | 769839   | 3.696  | ppbv   | 96     |
| 19) Isopropyl Alcohol      | 3.98  | 45   | 175668   | 2.180  | ppbv # | 94     |
| 20) Methylene Chloride     | 4.34  | 84   | 723831   | 8.979  | ppbv   | 96     |
| 26) Hexane                 | 5.68  | 57   | 430998   | 2.668  | ppbv # | 54     |
| 27) Carbon Disulfide       | 4.54  | 76   | 39333m   | 0.296  | ppbv   |        |
| 34) 2-Butanone             | 5.25  | 43   | 70392m   | 0.458  | ppbv   |        |
| 35) Carbon Tetrachloride   | 7.01  | 117  | 12302m   | 0.054  | ppbv   |        |
| 36) Benzene                | 6.89  | 78   | 65367    | 0.215  | ppbv # | 95     |
| 44) 2,2,4-Trimethylpentane | 7.87  | 57   | 97233    | 0.196  | ppbv # | 86     |
| 52) Tetrachloroethene      | 11.22 | 164  | 6260m    | 0.047  | ppbv   |        |
| 53) Toluene                | 9.80  | 91   | 314759   | 0.882  | ppbv   | 97     |
| 59) m/p-Xylene             | 12.96 | 91   | 40133m   | 0.107  | ppbv   |        |

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

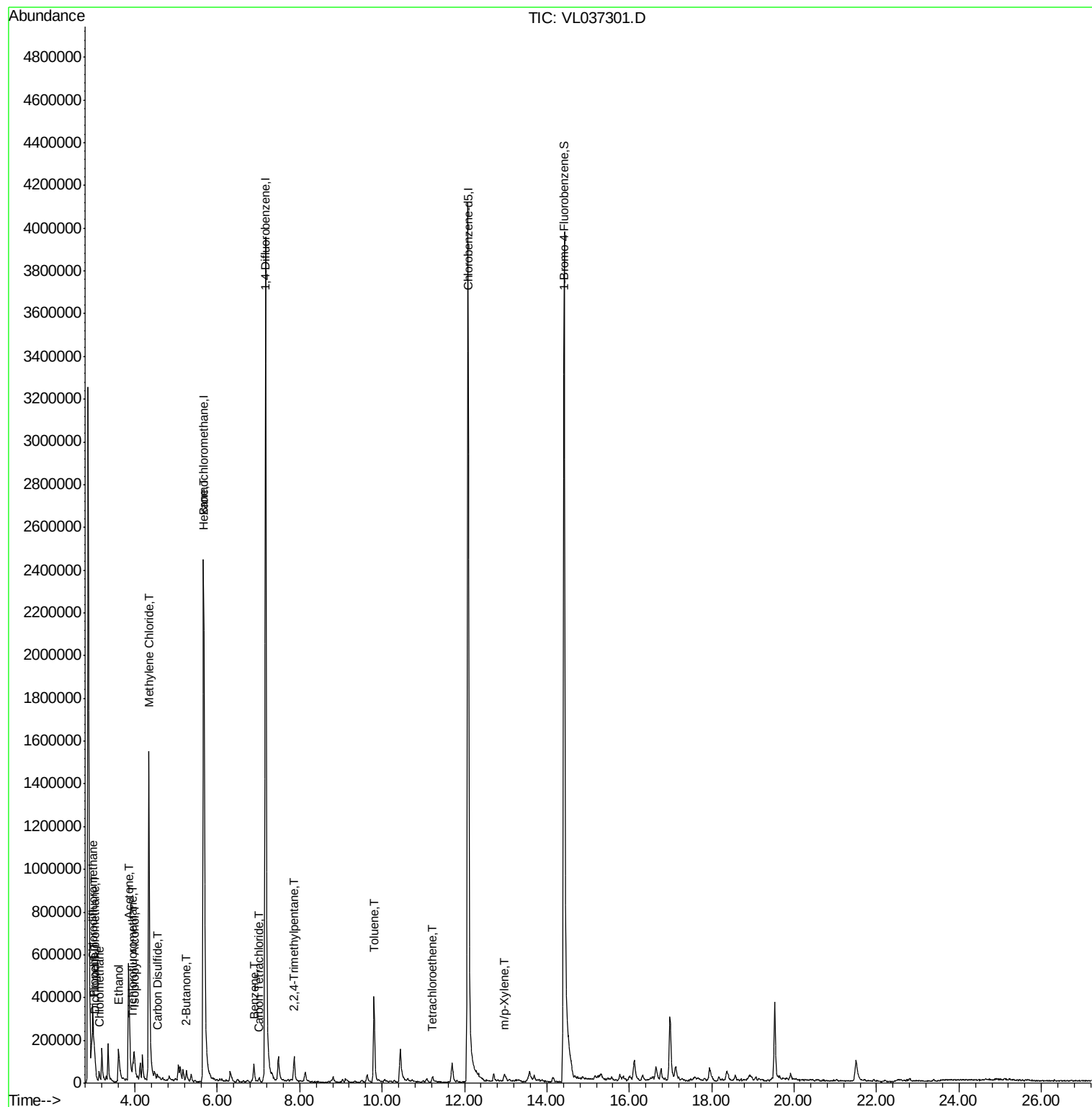
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL073021\  
Data File : VL07301.D  
Acq On : 31 Jul 2021 3:19  
Operator : SY/AP  
Sample : M3121-02  
Misc : 400mL/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

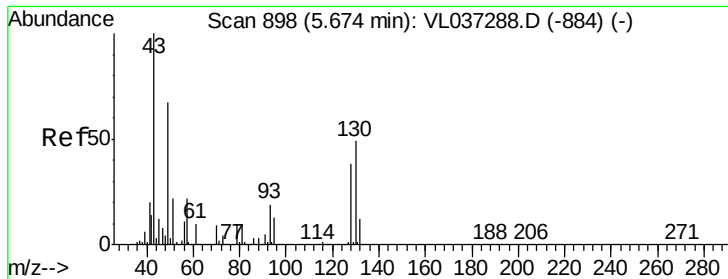
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-BEDROOM-3

Manual Integrations  
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Quant Time: Jul 31 07:50:25 2021  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL073021AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Jul  
QLast Update : Fri Jul 30 23:19:30 2021  
Response via : Initial Calibration





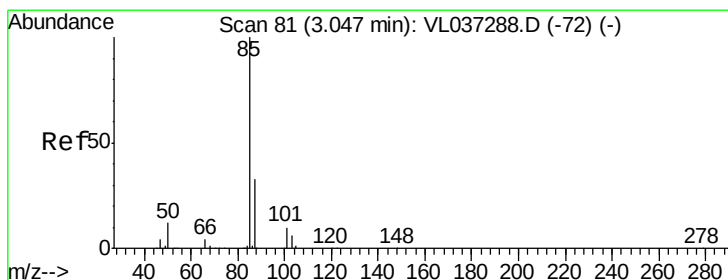
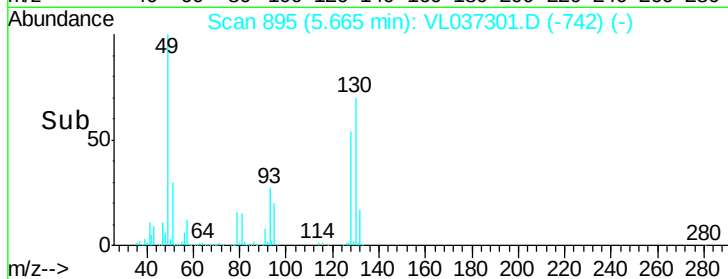
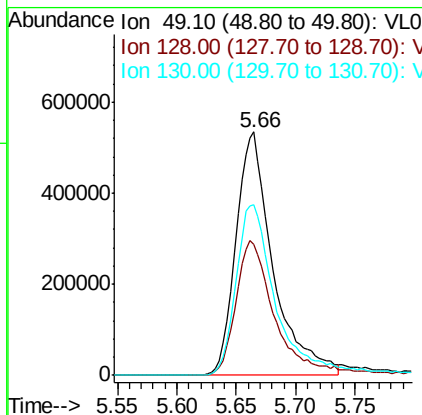
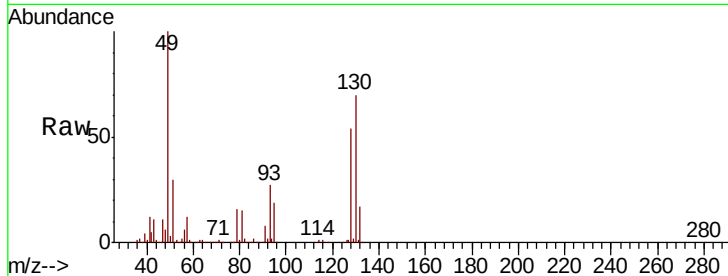
#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.66 min Scan# 895  
Delta R.T. -0.01 min  
Lab File: VL037301.D  
Acq: 31 Jul 2021 3:19

Instrument :  
MSVOA\_L  
ClientSampled :  
IA-BEDROOM-3

Tot Ion: 49 Resp: 1156535  
Ion Ratio Lower Upper  
49 100  
128 59.2 30.6 92.0  
130 78.1 37.8 113.4

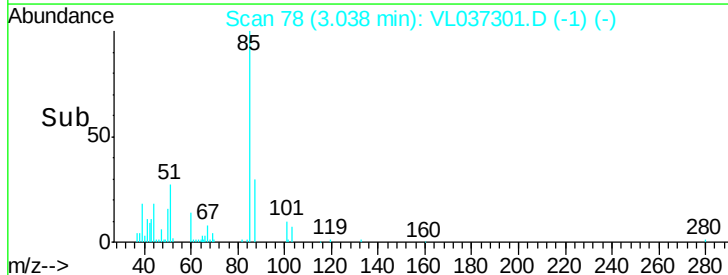
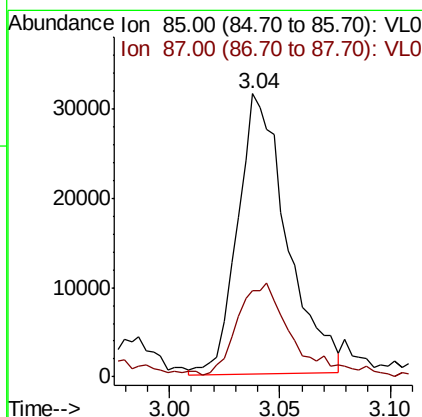
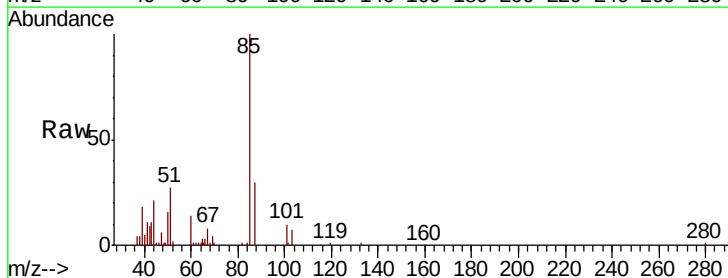
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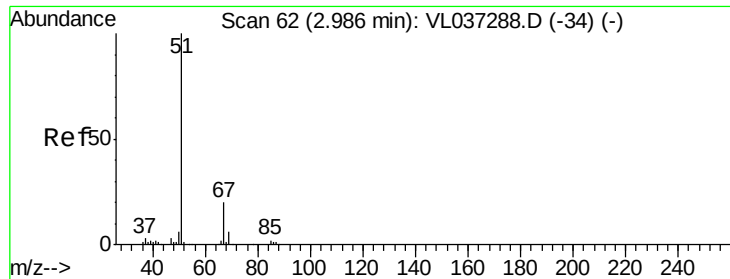
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#2  
Dichlorodifluoromethane  
Concen: 0.294 ppbv  
RT: 3.04 min Scan# 78  
Delta R.T. -0.01 min  
Lab File: VL037301.D  
Acq: 31 Jul 2021 3:19

Tgt Ion: 85 Resp: 48933  
Ion Ratio Lower Upper  
85 100  
87 29.0 26.6 40.0





#3

Chlorodifluoromethane

Concen: 2.302 ppbv

RT: 2.98 min Scan# 59

Delta R.T. -0.01 min

Lab File: VL037301.D

Acq: 31 Jul 2021 3:19

Instrument :

MSVOA\_L

ClientSampleId :

IA-BEDROOM-3

Tot Ion: 51 Resp: 533590

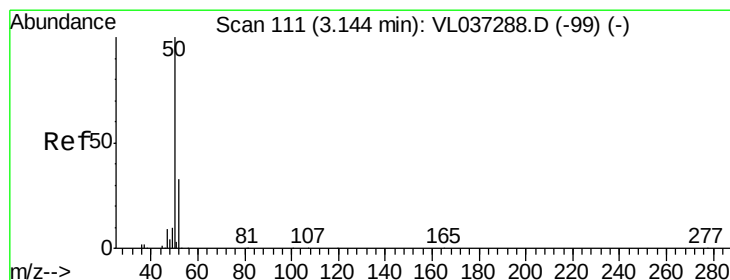
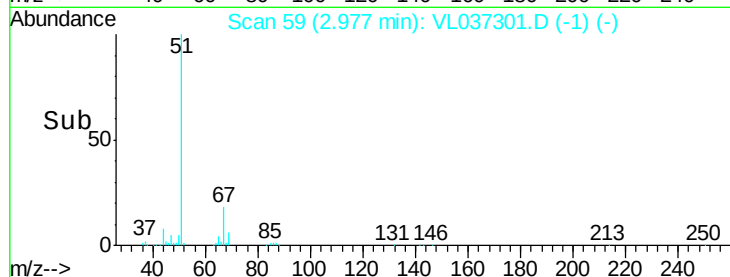
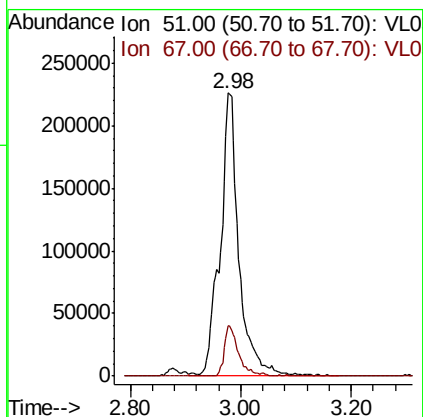
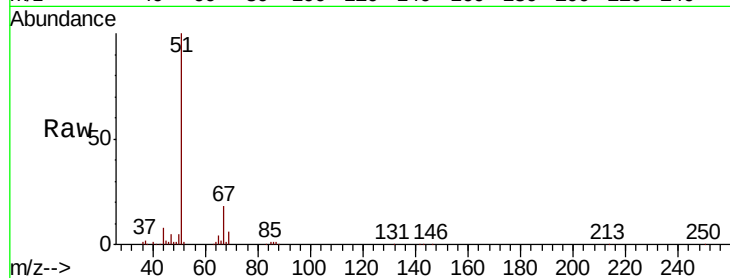
Ion Ratio Lower Upper

51 100

67 14.0 15.2 22.8#

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#4

Chloromethane

Concen: 0.477 ppbv

RT: 3.13 min Scan# 108

Delta R.T. -0.01 min

Lab File: VL037301.D

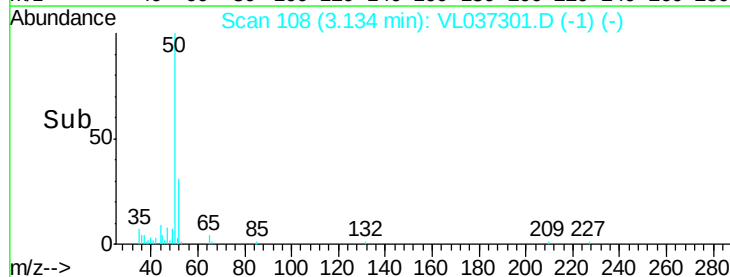
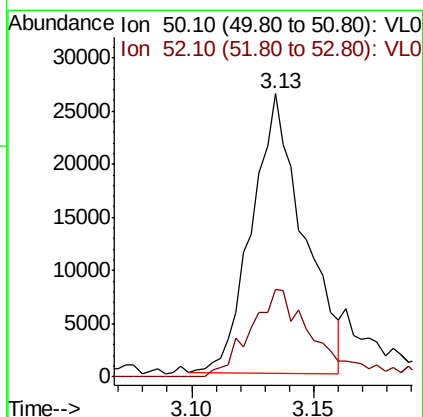
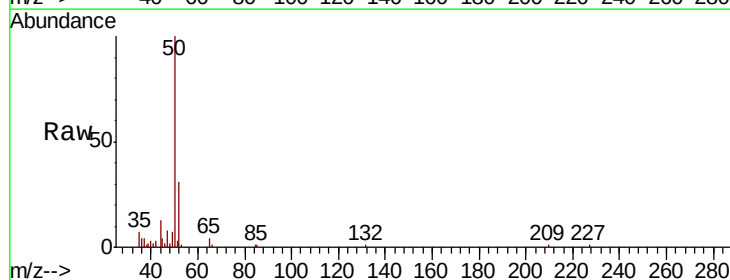
Acq: 31 Jul 2021 3:19

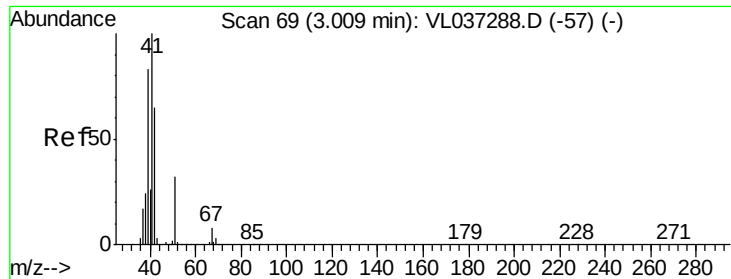
Tgt Ion: 50 Resp: 38565

Ion Ratio Lower Upper

50 100

52 31.3 26.2 39.4





#9

Propene

Concen: 0.403 ppbv

RT: 3.02 min Scan# 71

Delta R.T. 0.01 min

Lab File: VL037301.D

Acq: 31 Jul 2021 3:19

Instrument :

MSVOA\_L

ClientSampleId :

IA-BEDROOM-3

Tot Ion: 41 Resp: 31456

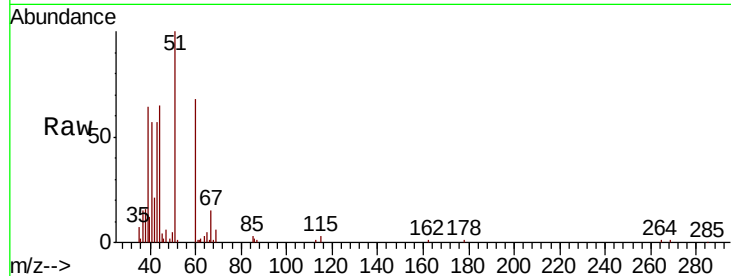
Ion Ratio Lower Upper

41 100

42 59.8 54.0 81.0

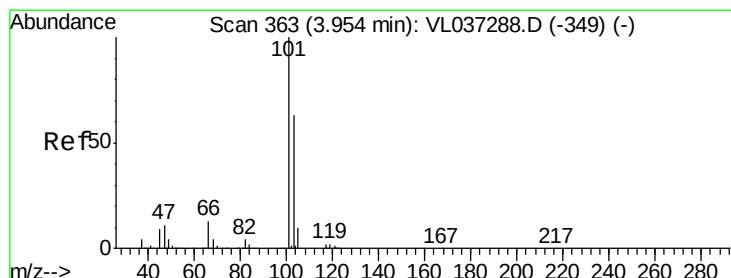
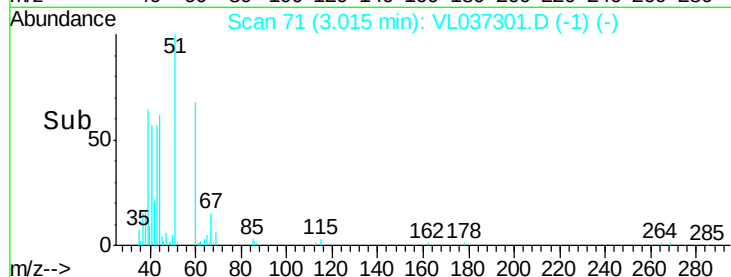
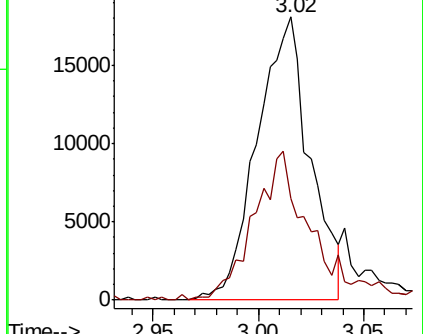
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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#11

Trichlorofluoromethane

Concen: 0.238 ppbv

RT: 3.94 min Scan# 360

Delta R.T. -0.01 min

Lab File: VL037301.D

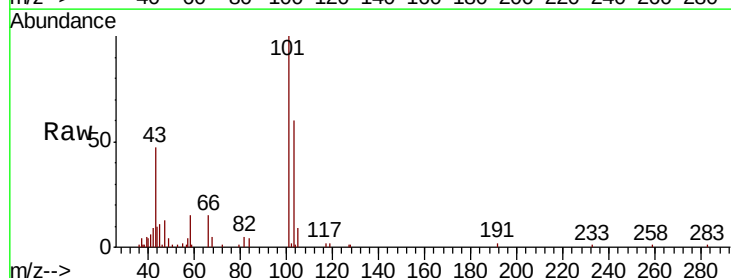
Acq: 31 Jul 2021 3:19

Tgt Ion: 101 Resp: 49244

Ion Ratio Lower Upper

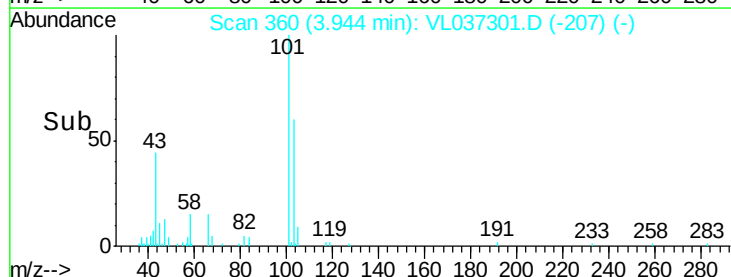
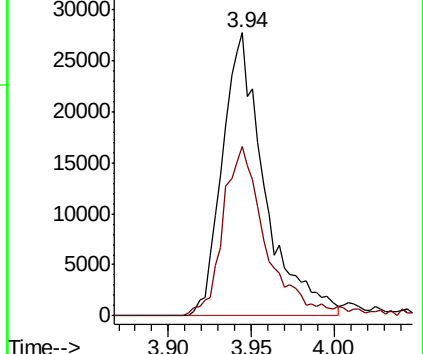
101 100

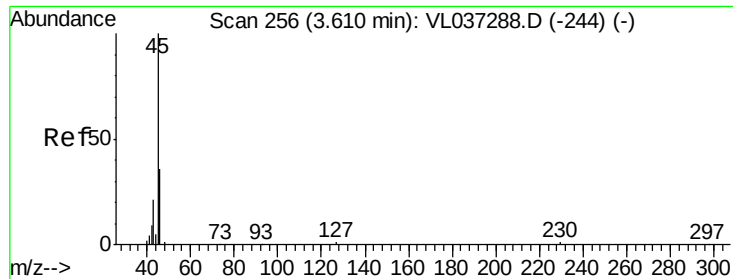
103 59.1 50.6 75.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





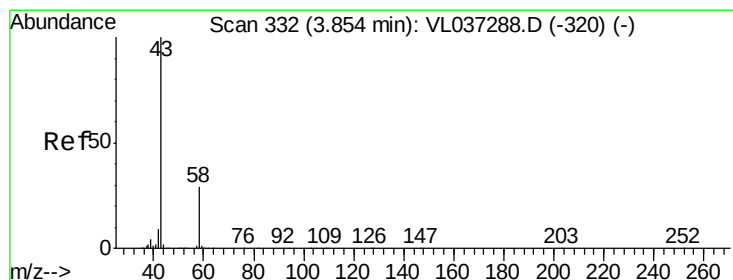
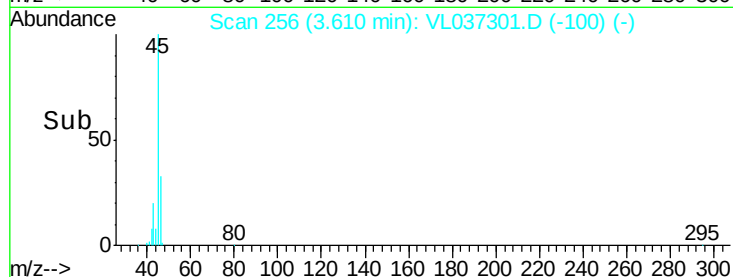
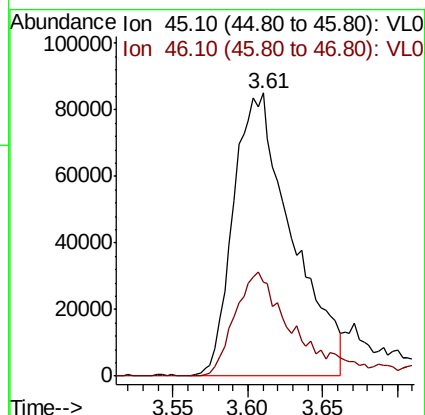
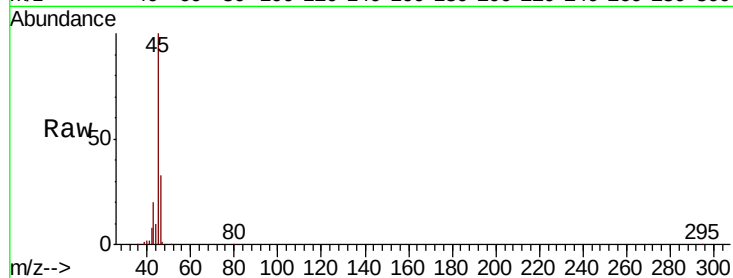
#13  
Ethanol  
Concen: 13.484 ppbv  
RT: 3.61 min Scan# 256  
Delta R.T. 0.00 min  
Lab File: VL037301.D  
Acq: 31 Jul 2021 3:19

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-BEDROOM-3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 45      | 100   |       |       |
| 46      | 39.9  | 16.2  | 64.8  |

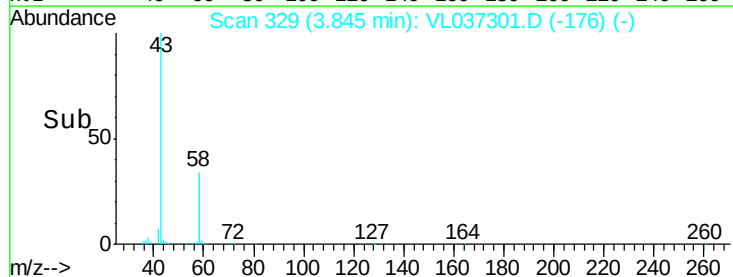
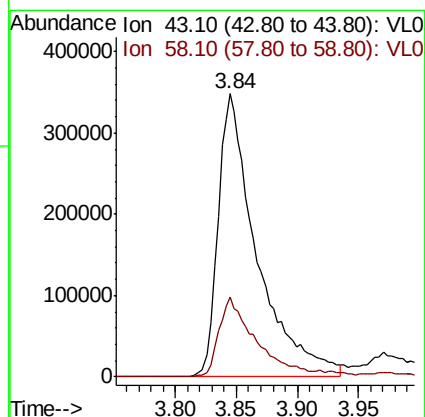
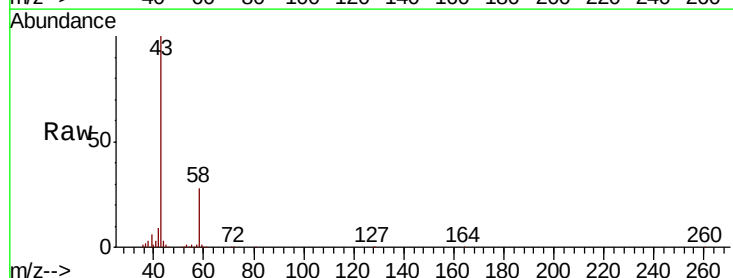
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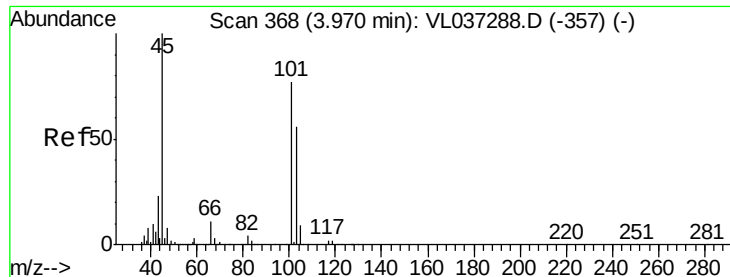
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#15  
Acetone  
Concen: 3.696 ppbv  
RT: 3.84 min Scan# 329  
Delta R.T. -0.01 min  
Lab File: VL037301.D  
Acq: 31 Jul 2021 3:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 28.3  | 24.2  | 36.4  |





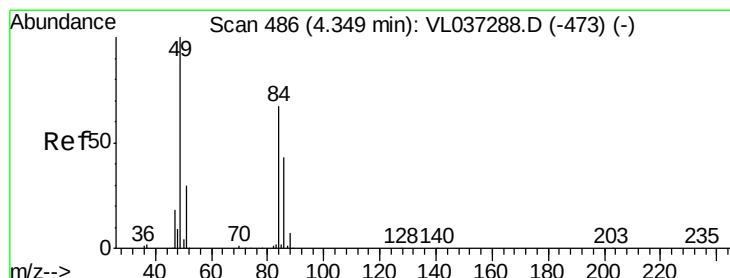
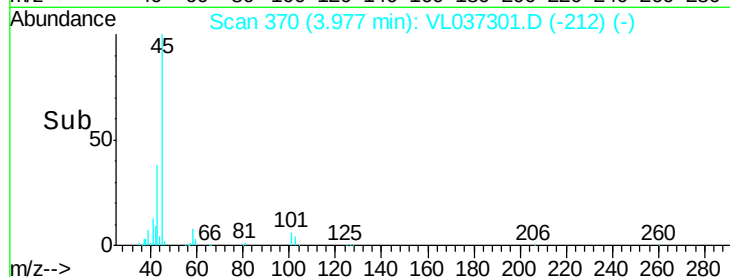
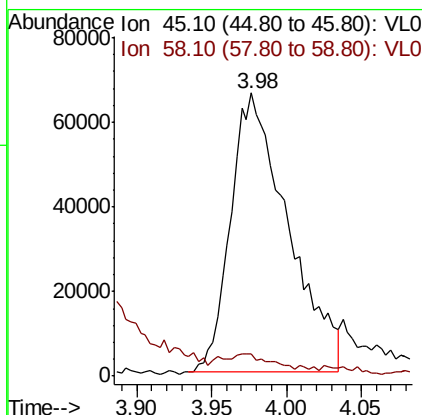
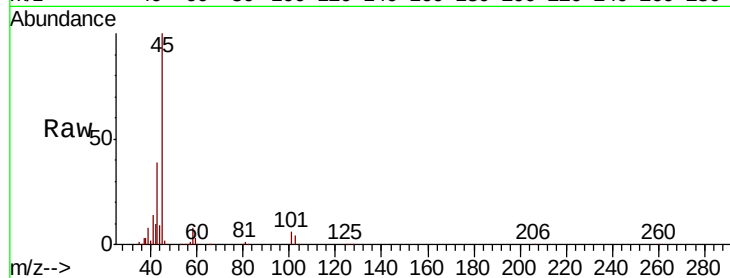
#19  
Isopropyl Alcohol  
Concen: 2.180 ppbv  
RT: 3.98 min Scan# 370  
Delta R.T. 0.01 min  
Lab File: VL037301.D  
Acq: 31 Jul 2021 3:19

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-BEDROOM-3

Tot Ion: 45 Resp: 175668  
Ion Ratio Lower Upper  
45 100  
58 4.8 2.2 3.2#

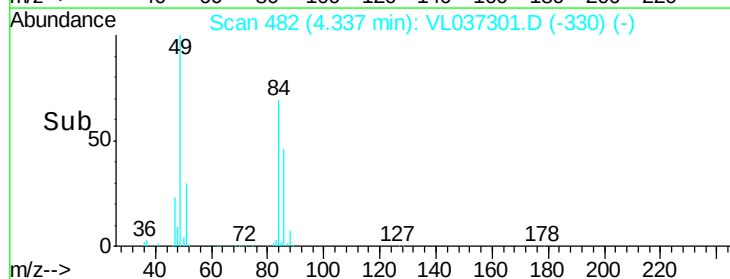
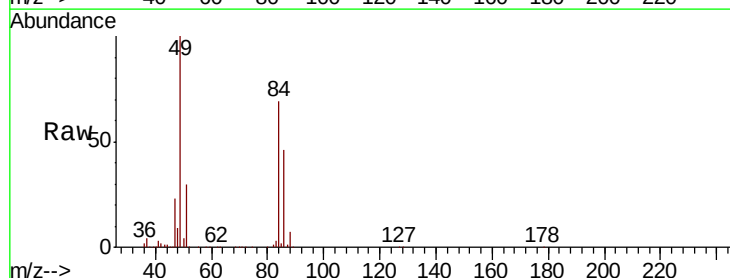
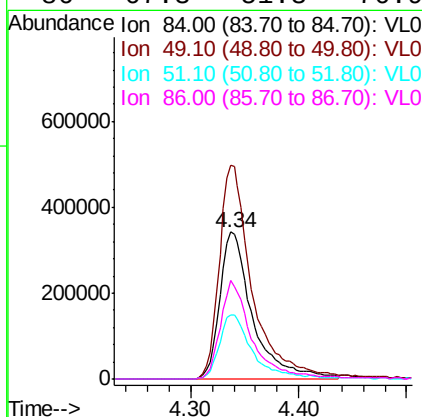
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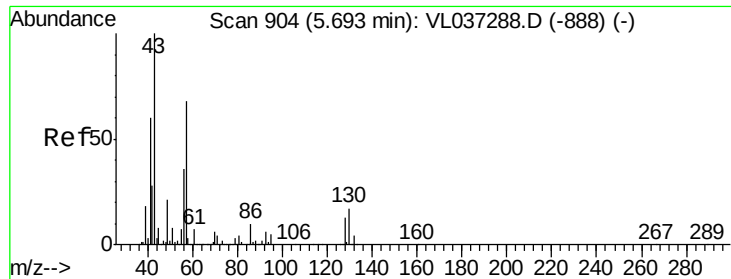
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#20  
Methylene Chloride  
Concen: 8.979 ppbv  
RT: 4.34 min Scan# 482  
Delta R.T. -0.01 min  
Lab File: VL037301.D  
Acq: 31 Jul 2021 3:19

Tgt Ion: 84 Resp: 723831  
Ion Ratio Lower Upper  
84 100  
49 145.6 120.2 180.4  
51 43.7 36.5 54.7  
86 67.3 51.3 76.9





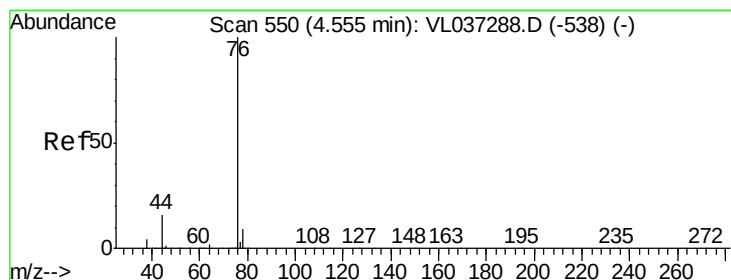
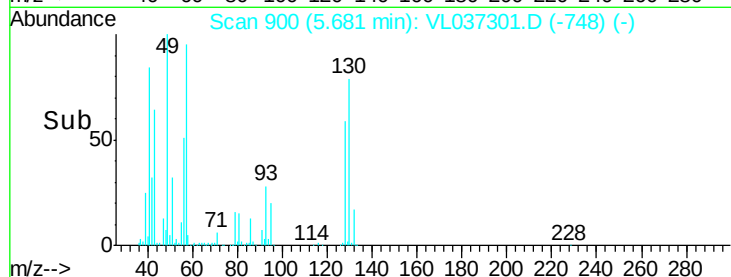
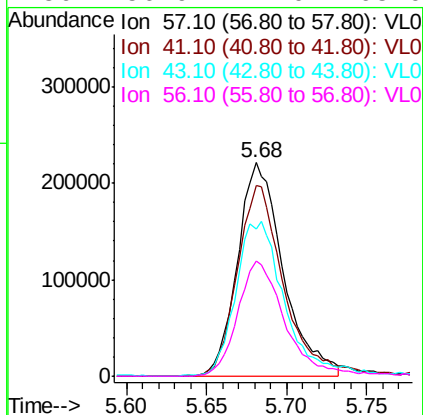
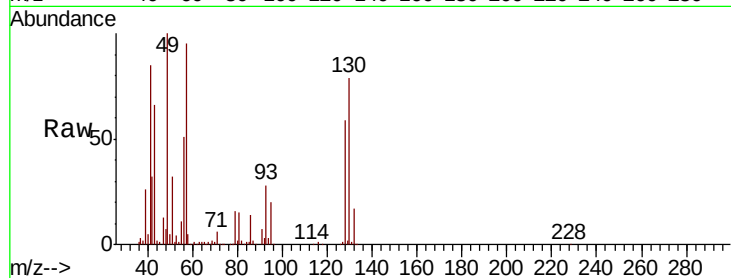
#26  
Hexane  
Concen: 2.668 ppbv  
RT: 5.68 min Scan# 900  
Delta R.T. -0.01 min  
Lab File: VL037301.D  
Acq: 31 Jul 2021 3:19

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-BEDROOM-3

| Tot Ion | 57    | Resp  | 430998 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 57      | 100   |       |        |
| 41      | 93.3  | 71.0  | 106.6  |
| 43      | 80.2  | 155.0 | 232.4# |
| 56      | 56.9  | 42.0  | 63.0   |

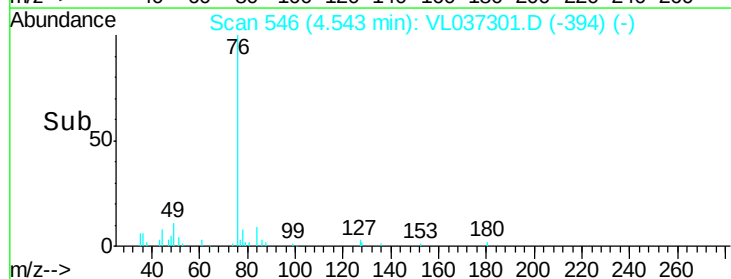
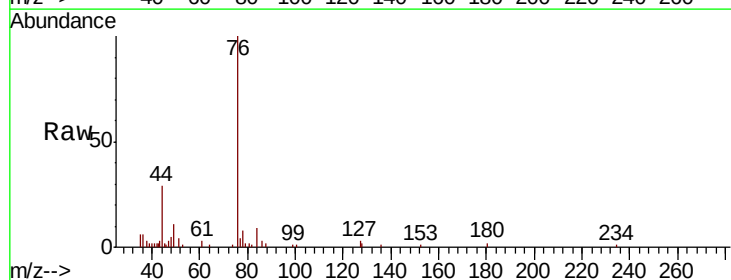
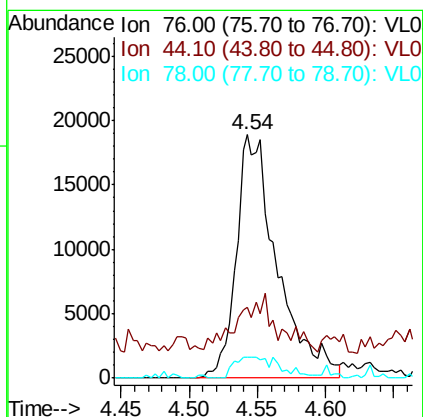
Manual Integrations  
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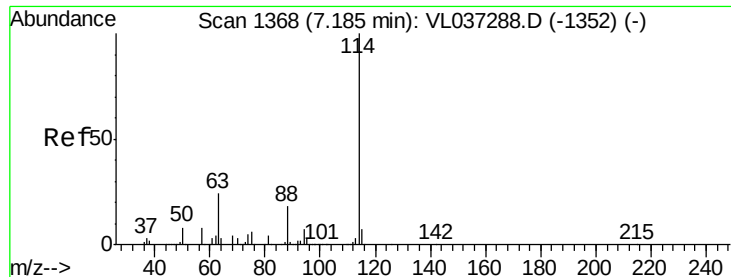


#27  
Carbon Disulfide  
Concen: 0.296 ppbv m  
RT: 4.54 min Scan# 546  
Delta R.T. -0.01 min  
Lab File: VL037301.D  
Acq: 31 Jul 2021 3:19

| Tgt Ion | 76    | Resp  | 39333 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 76      | 100   |       |       |
| 44      | 26.4  | 14.1  | 21.1# |
| 78      | 0.0   | 8.0   | 12.0# |







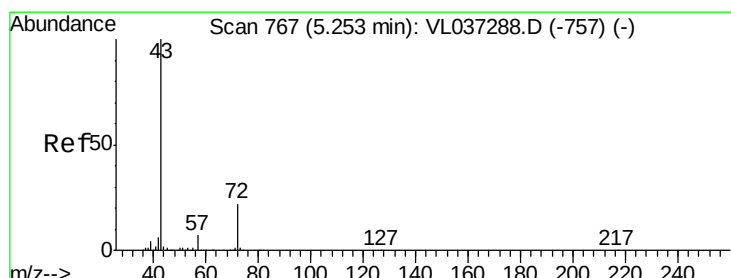
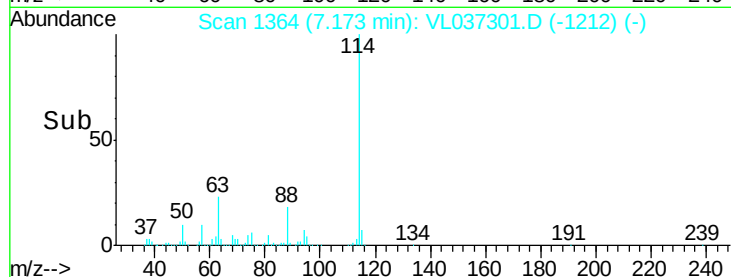
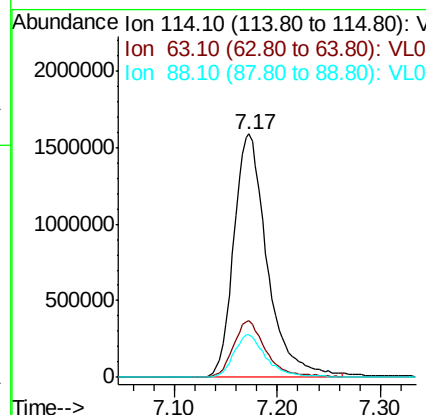
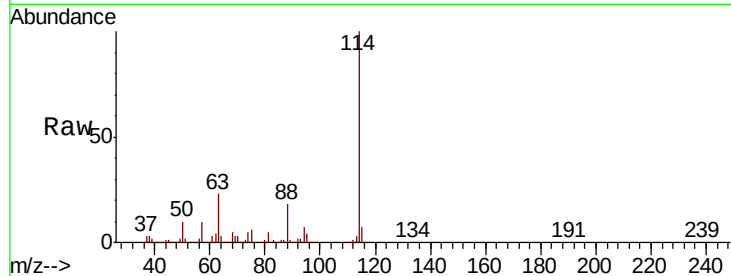
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 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.17 min Scan# 1364  
 Delta R.T. -0.01 min  
 Lab File: VL037301.D  
 Acq: 31 Jul 2021 3:19

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA-BEDROOM-3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 23.1  | 19.0  | 28.4  |
| 88      | 17.3  | 14.0  | 21.0  |

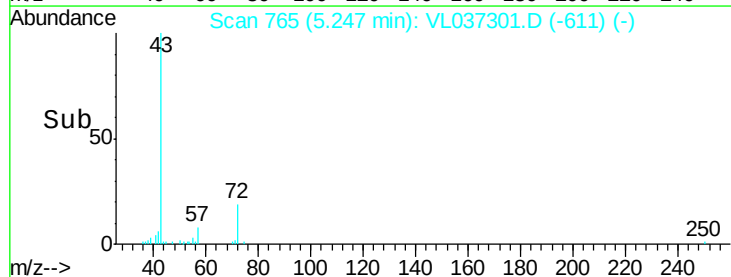
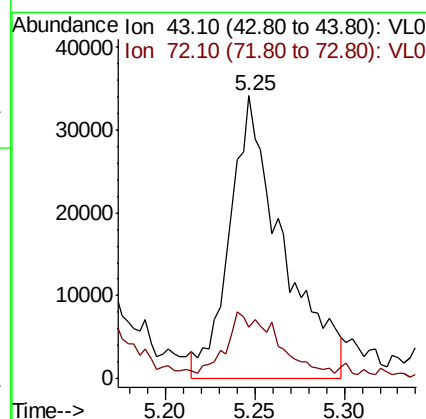
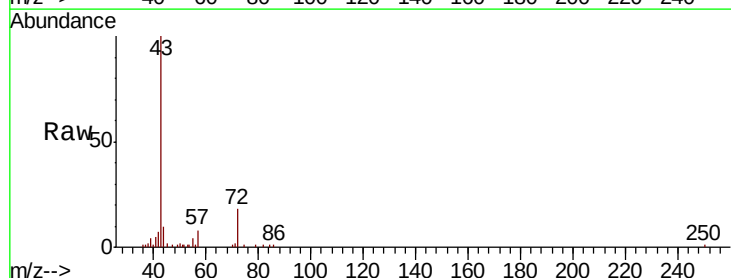
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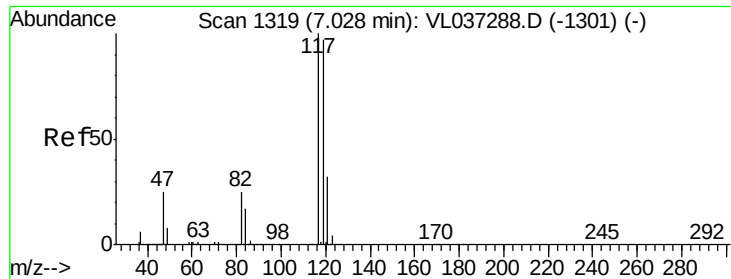
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#34  
 2-Butanone  
 Concen: 0.458 ppbv m  
 RT: 5.25 min Scan# 765  
 Delta R.T. -0.01 min  
 Lab File: VL037301.D  
 Acq: 31 Jul 2021 3:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 72      | 25.8  | 18.5  | 27.7  |





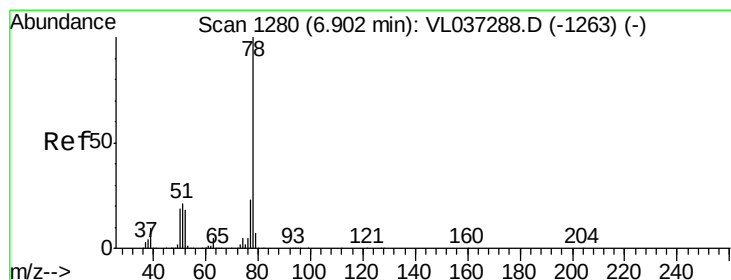
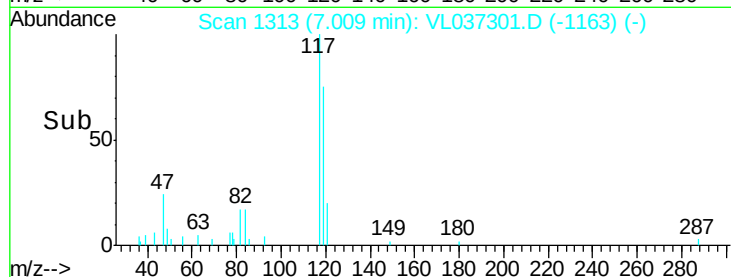
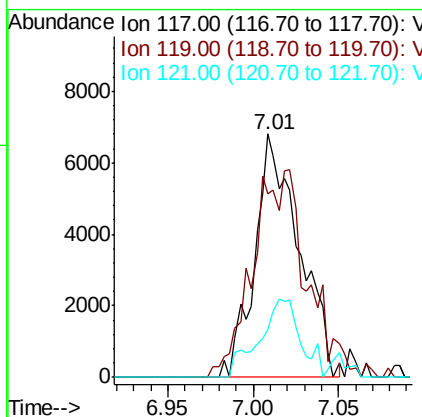
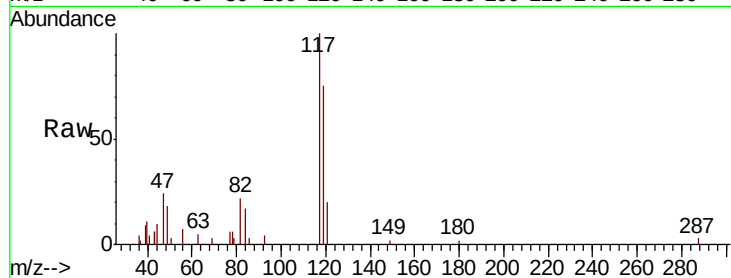
#35  
Carbon Tetrachloride  
Concen: 0.054 ppbv m  
RT: 7.01 min Scan# 1313  
Delta R.T. -0.02 min  
Lab File: VL037301.D  
Acq: 31 Jul 2021 3:19

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-BEDROOM-3

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 75.1  | 77.4  | 116.2# |
| 121     | 19.8  | 25.8  | 38.8#  |

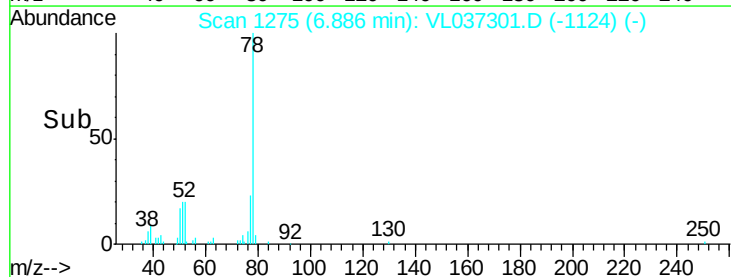
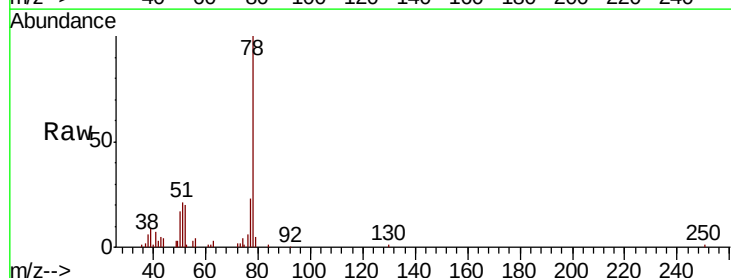
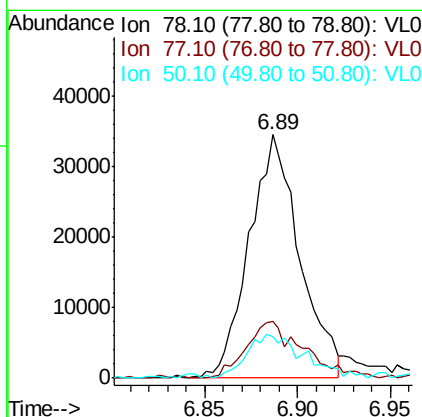
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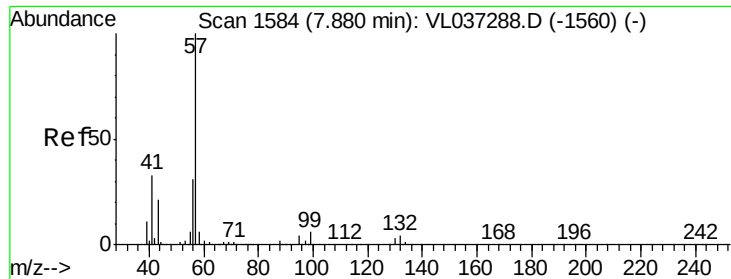
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#36  
Benzene  
Concen: 0.215 ppbv  
RT: 6.89 min Scan# 1275  
Delta R.T. -0.02 min  
Lab File: VL037301.D  
Acq: 31 Jul 2021 3:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 78      | 100   |       |       |
| 77      | 23.5  | 18.3  | 27.5  |
| 50      | 15.4  | 15.5  | 23.3# |





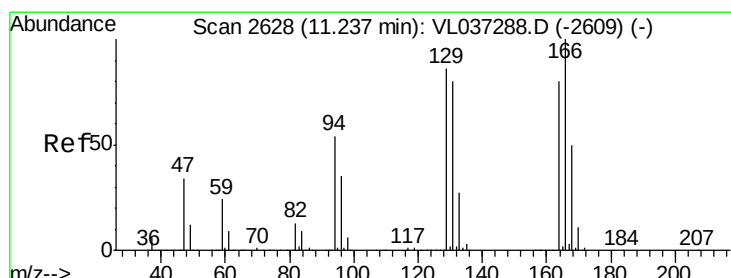
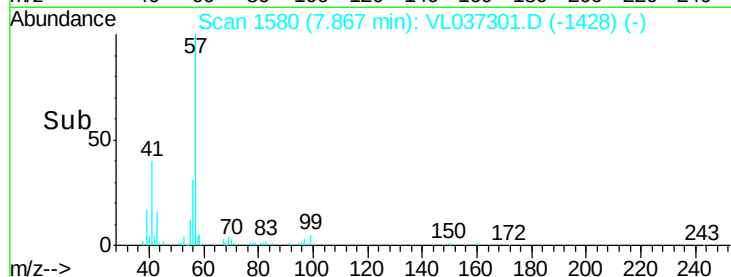
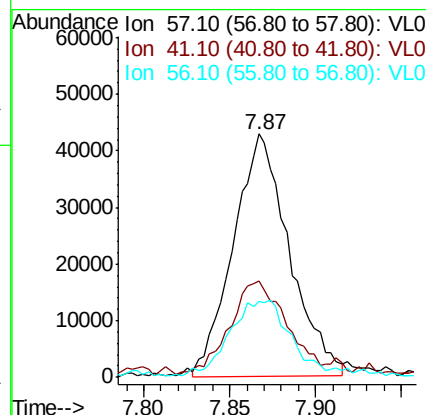
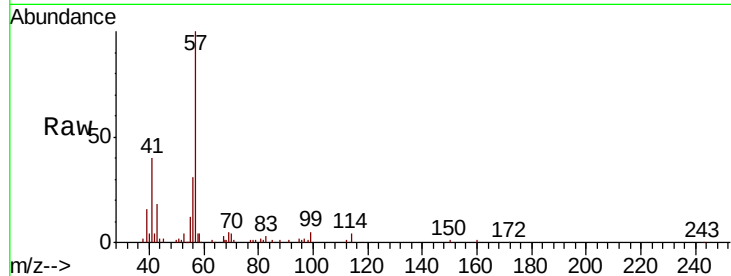
#44  
2,2,4-Trimethylpentane  
Concen: 0.196 ppbv  
RT: 7.87 min Scan# 1580  
Delta R.T. -0.01 min  
Lab File: VL037301.D  
Acq: 31 Jul 2021 3:19

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-BEDROOM-3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 57      | 100   |       |       |
| 41      | 41.3  | 26.6  | 40.0# |
| 56      | 39.3  | 25.3  | 37.9# |

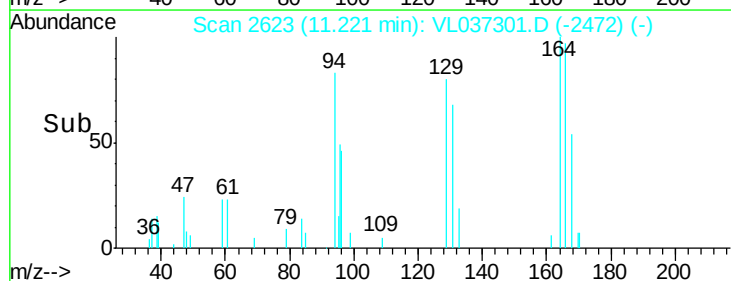
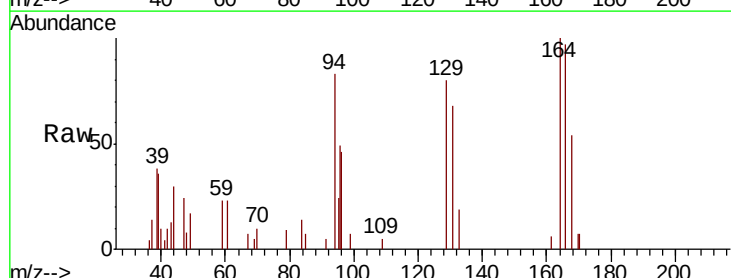
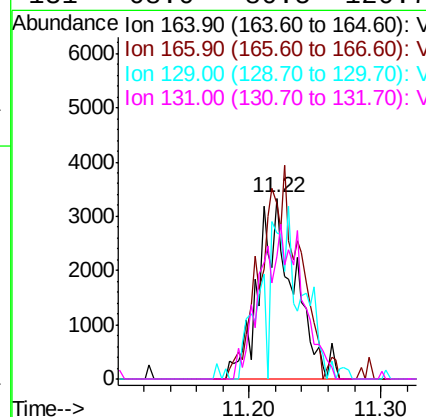
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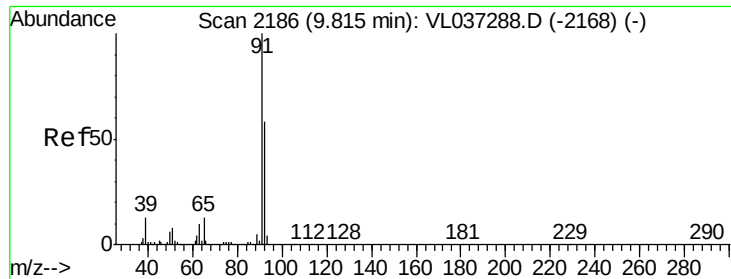
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#52  
Tetrachloroethene  
Concen: 0.047 ppbv m  
RT: 11.22 min Scan# 2623  
Delta R.T. -0.02 min  
Lab File: VL037301.D  
Acq: 31 Jul 2021 3:19

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 164     | 100   |       |        |
| 166     | 97.1  | 100.4 | 150.6# |
| 129     | 80.4  | 86.2  | 129.4# |
| 131     | 68.0  | 80.5  | 120.7# |





#53

Toluene

Concen: 0.882 ppbv

RT: 9.80 min Scan# 2182

Delta R.T. -0.01 min

Lab File: VL037301.D

Acq: 31 Jul 2021 3:19

Instrument :

MSVOA\_L

ClientSampleId :

IA-BEDROOM-3

Tot Ion: 91 Resp: 314759

Ion Ratio Lower Upper

91 100

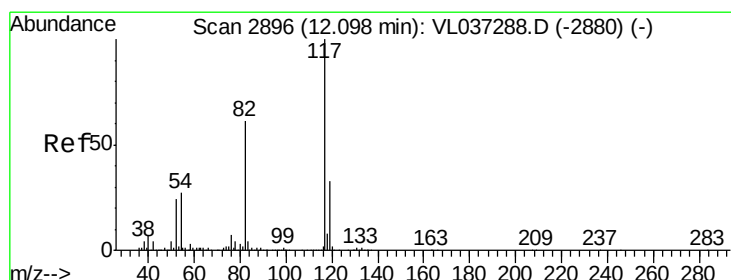
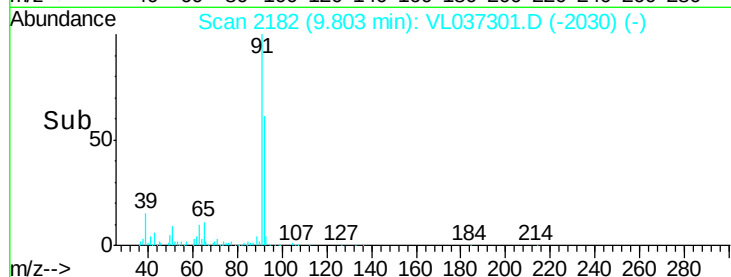
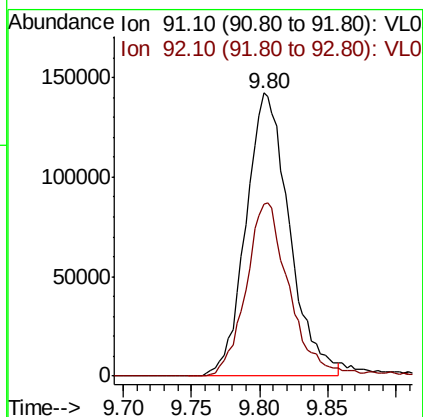
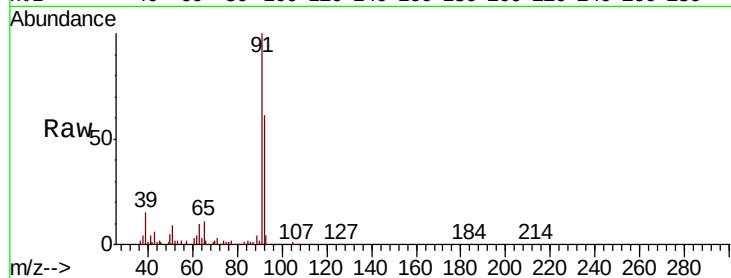
92 62.5 48.2 72.2

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2892

Delta R.T. -0.01 min

Lab File: VL037301.D

Acq: 31 Jul 2021 3:19

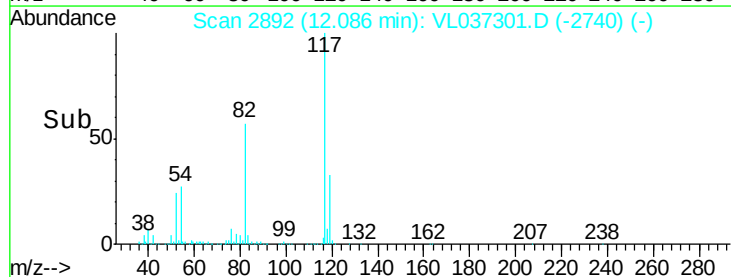
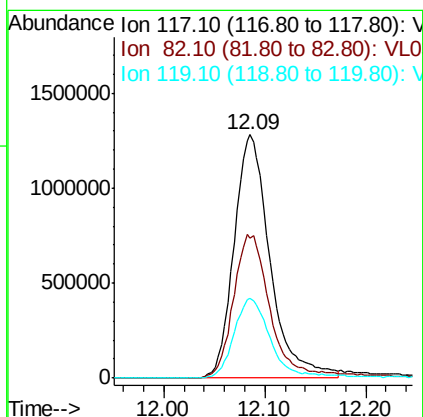
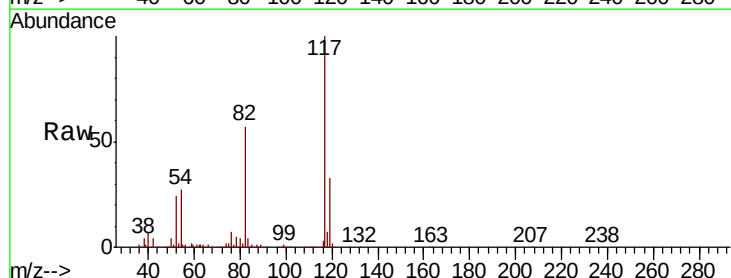
Tgt Ion: 117 Resp: 3181136

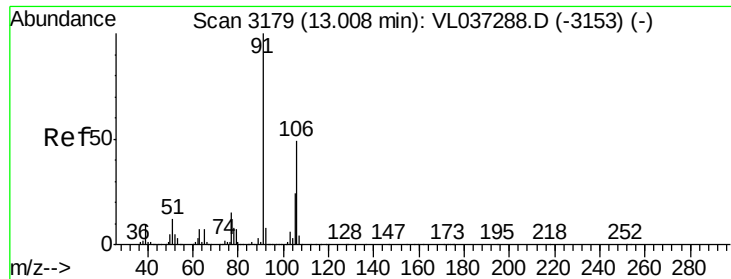
Ion Ratio Lower Upper

117 100

82 62.6 47.2 70.8

119 34.8 45.8 68.8#





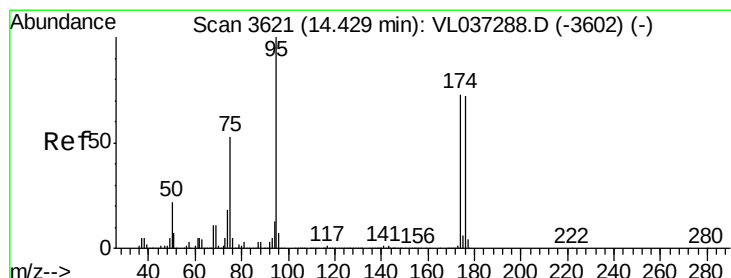
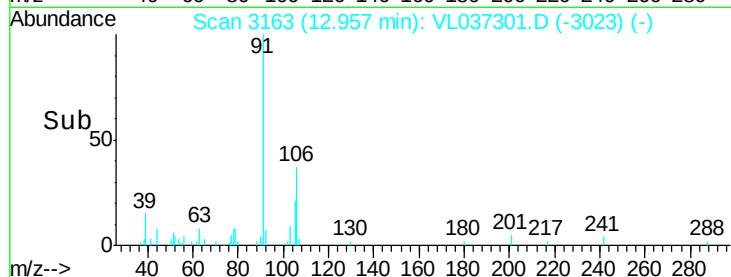
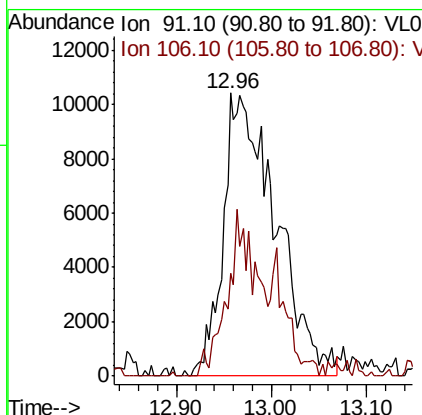
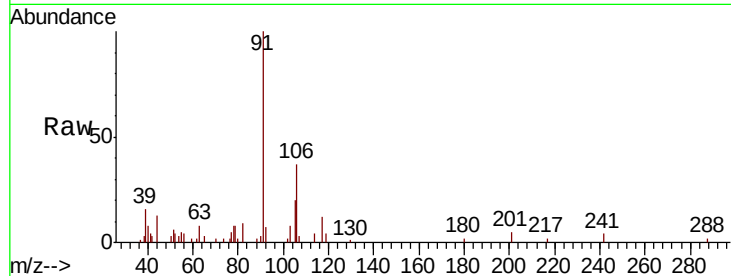
#59  
m/p-Xylene  
Concen: 0.107 ppbv m  
RT: 12.96 min Scan# 3163  
Delta R.T. -0.05 min  
Lab File: VL037301.D  
Acq: 31 Jul 2021 3:19

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-BEDROOM-3

Tot Ion: 91 Resp: 40133  
Ion Ratio Lower Upper  
91 100  
106 0.0 37.3 55.9#

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#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.764 ppbv  
RT: 14.42 min Scan# 3617  
Delta R.T. -0.01 min  
Lab File: VL037301.D  
Acq: 31 Jul 2021 3:19

Tgt Ion: 95 Resp: 2259801  
Ion Ratio Lower Upper  
95 100  
174 79.2 59.8 89.6  
175 5.8 4.5 6.7

