

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120820\  
 Data File : VL036102.D  
 Acq On : 8 Dec 2020 19:49  
 Operator : SY/AP  
 Sample : L4949-03DUP  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA-1DUP

Manual Integrations  
 APPROVED

MMDadoda  
 12/11/2020 12:23:13 PM

Quant Time: Dec 09 22:27:54 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Dec 0  
 QLast Update : Mon Dec 07 16:56:49 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.69  | 49   | 1139941  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.20  | 114  | 2647283  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.11 | 117  | 2421775  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.44  | 95    | 2114093  | 10.99    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 109.90% |

| Target Compounds           | R.T.  | QIon | Response | Conc    | Units  | Ovalue |
|----------------------------|-------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane | 3.05  | 85   | 30245    | 0.228   | ppbv   | 92     |
| 3) Chlorodifluoromethane   | 2.99  | 51   | 47759    | 0.367   | ppbv # | 91     |
| 4) Chloromethane           | 3.14  | 50   | 28161    | 0.441   | ppbv   | 93     |
| 9) Propene                 | 3.02  | 41   | 716826m  | 11.002  | ppbv   |        |
| 10) Heptane                | 8.14  | 43   | 2544204  | 15.289  | ppbv   | 99     |
| 11) Trichlorofluoromethane | 3.95  | 101  | 38513m   | 0.247   | ppbv   |        |
| 13) Ethanol                | 3.66  | 45   | 4396725  | 489.517 | ppbv   | 83     |
| 15) Acetone                | 3.85  | 43   | 23065492 | 168.357 | ppbv # | 76     |
| 19) Isopropyl Alcohol      | 4.02  | 45   | 1597356m | 19.076  | ppbv   |        |
| 20) Methylene Chloride     | 4.36  | 84   | 109087m  | 1.943   | ppbv   |        |
| 25) Ethyl Acetate          | 5.69  | 43   | 5920076  | 21.630  | ppbv   | 97     |
| 26) Hexane                 | 5.70  | 57   | 2041350m | 16.572  | ppbv   |        |
| 30) Cyclohexane            | 7.14  | 84   | 829127   | 9.163   | ppbv   | 96     |
| 34) 2-Butanone             | 5.26  | 43   | 6666077  | 37.962  | ppbv   | 99     |
| 35) Carbon Tetrachloride   | 7.04  | 117  | 10110m   | 0.065   | ppbv   |        |
| 36) Benzene                | 6.91  | 78   | 1273469  | 5.676   | ppbv   | 94     |
| 41) Tetrahydrofuran        | 6.06  | 42   | 1832683  | 17.568  | ppbv   | 97     |
| 44) 2,2,4-Trimethylpentane | 7.88  | 57   | 6483406  | 15.957  | ppbv # | 81     |
| 50) 4-Methyl-2-Pentanone   | 8.77  | 43   | 870259   | 3.323   | ppbv   | 100    |
| 52) Tetrachloroethene      | 11.24 | 164  | 6376m    | 0.079   | ppbv   |        |
| 53) Toluene                | 9.83  | 91   | 19097564 | 75.807  | ppbv # | 79     |
| 58) Ethyl Benzene          | 12.73 | 91   | 6341181  | 19.106  | ppbv   | 95     |
| 59) m/p-Xylene             | 13.00 | 91   | 15787317 | 56.477  | ppbv   | 87     |
| 60) o-Xylene               | 13.72 | 91   | 7161611  | 27.192  | ppbv   | 98     |
| 61) Styrene                | 13.55 | 104  | 136692   | 0.808   | ppbv   | 97     |
| 62) Isopropylbenzene       | 14.69 | 105  | 750325   | 1.922   | ppbv   | 97     |
| 64) n-propylbenzene        | 15.58 | 120  | 685830   | 7.302   | ppbv   | 87     |
| 65) tert-Butylbenzene      | 16.79 | 119  | 1102117  | 3.449   | ppbv # | 67     |
| 67) sec-Butylbenzene       | 17.32 | 105  | 290129   | 0.649   | ppbv   | 99     |
| 69) p-Isopropyltoluene     | 17.68 | 119  | 156912m  | 0.441   | ppbv   |        |
| 70) n-Butylbenzene         | 18.57 | 91   | 876649m  | 2.493   | ppbv   |        |
| 72) 4-Ethyltoluene         | 15.87 | 105  | 3726413  | 13.062  | ppbv   | 98     |
| 73) 1,3,5-Trimethylbenzene | 16.02 | 105  | 3416296  | 12.538  | ppbv   | 98     |
| 74) 1,2,4-Trimethylbenzene | 16.79 | 105  | 9173249  | 33.539  | ppbv # | 72     |
| 79) Naphthalene            | 22.23 | 128  | 477720   | 3.436   | ppbv   | 96     |

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

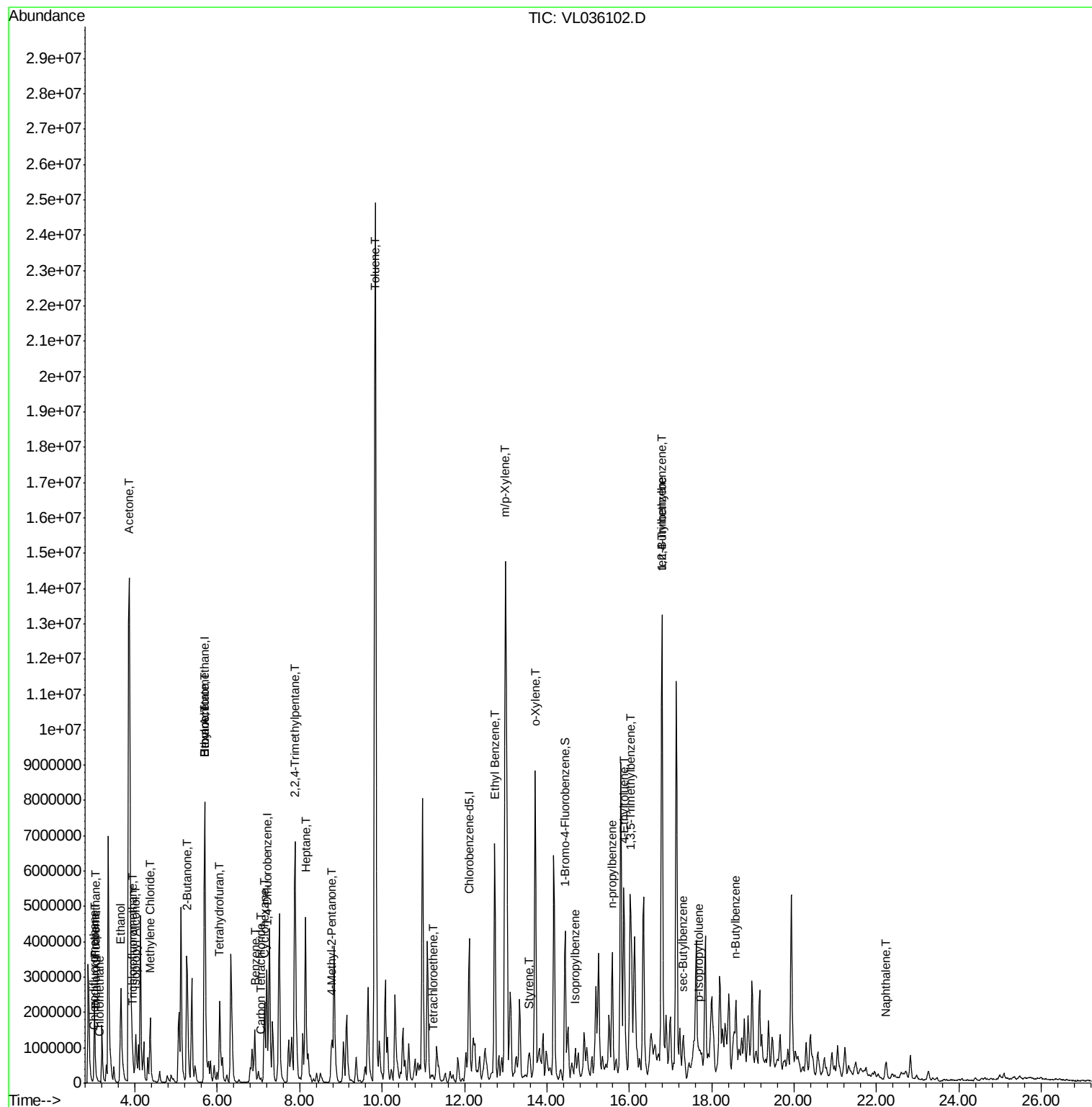
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL120820\  
Data File : VL036102.D  
Acq On : 8 Dec 2020 19:49  
Operator : SY/AP  
Sample : L4949-03DUP  
Misc : 400ml/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

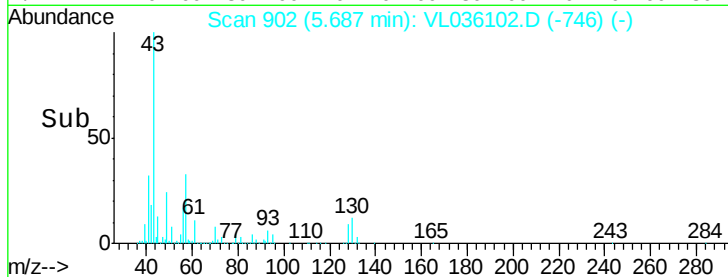
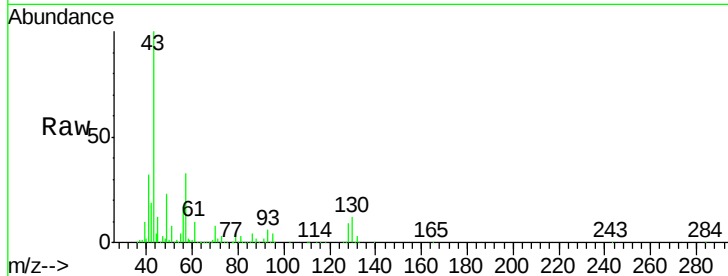
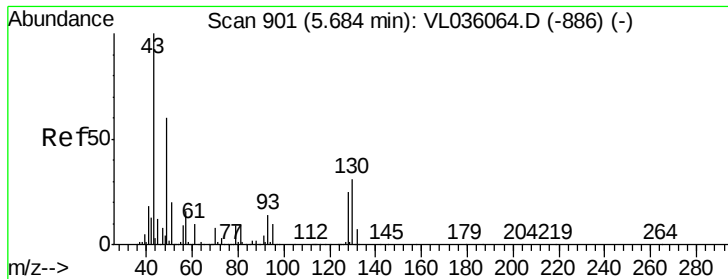
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-1DUP

Manual Integrations  
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12/11/2020 12:23:13 PM

Quant Time: Dec 09 22:27:54 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Dec  
QLast Update : Mon Dec 07 16:56:49 2020  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 902

Delta R.T. 0.00 min

Lab File: VL036102.D

Acq: 8 Dec 2020 19:49

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 49      | 100   |       |       |
| 128     | 38.9  | 21.1  | 63.1  |
| 130     | 50.1  | 27.1  | 81.3  |

Instrument :

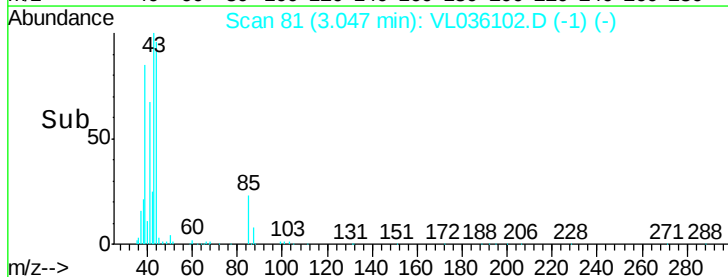
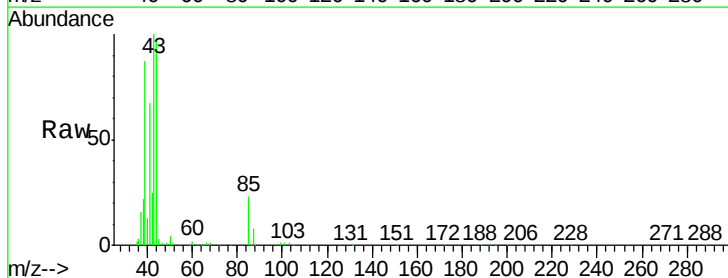
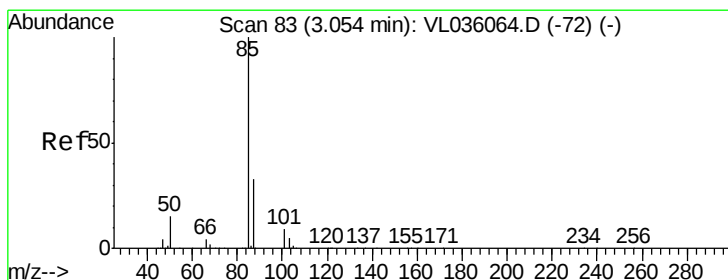
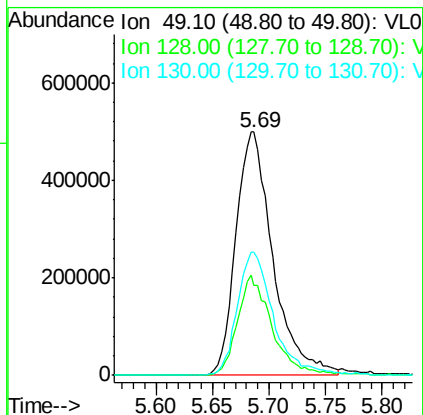
MSVOA\_L

ClientSampleId :

IA-1DUP

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#2

Dichlorodifluoromethane

Concen: 0.228 ppbv

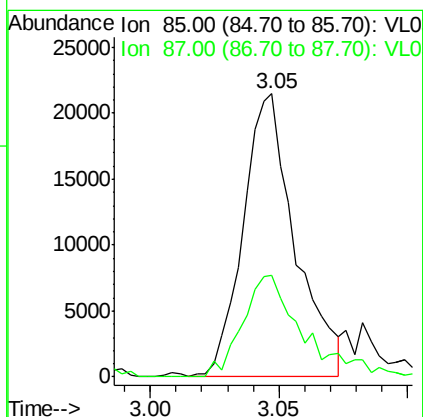
RT: 3.05 min Scan# 81

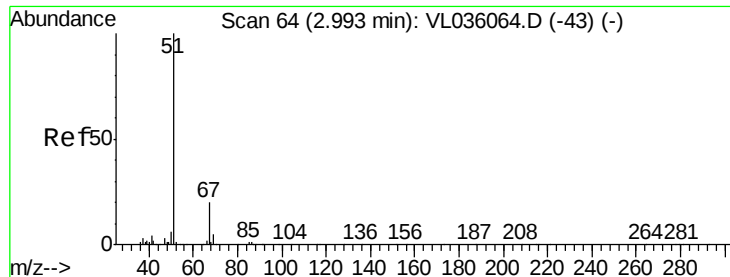
Delta R.T. -0.01 min

Lab File: VL036102.D

Acq: 8 Dec 2020 19:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 85      | 100   |       |       |
| 87      | 37.8  | 26.5  | 39.7  |





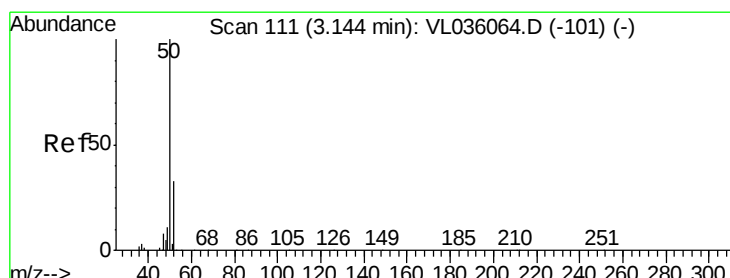
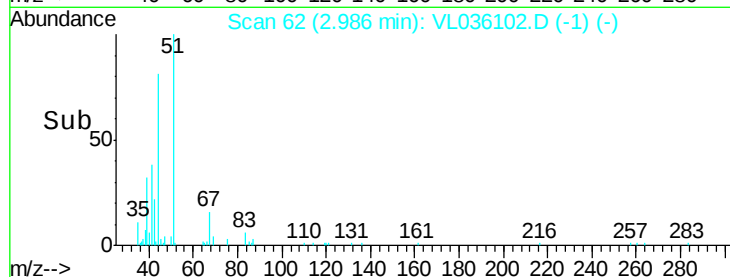
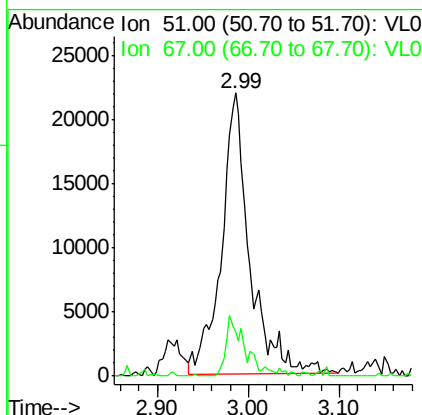
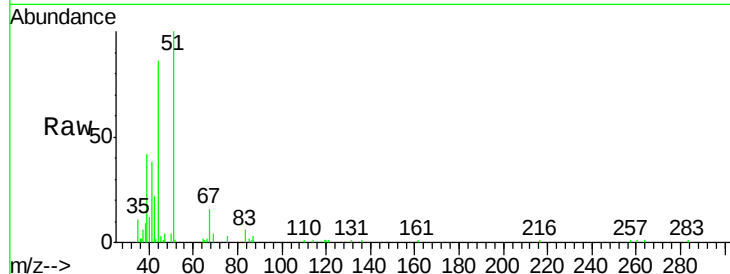
#3  
Chlorodifluoromethane  
Concen: 0.367 ppbv  
RT: 2.99 min Scan# 62  
Delta R.T. -0.01 min  
Lab File: VL036102.D  
Acq: 8 Dec 2020 19:49

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-1DUP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 51      | 100   |       |       |
| 67      | 14.0  | 14.3  | 21.5# |

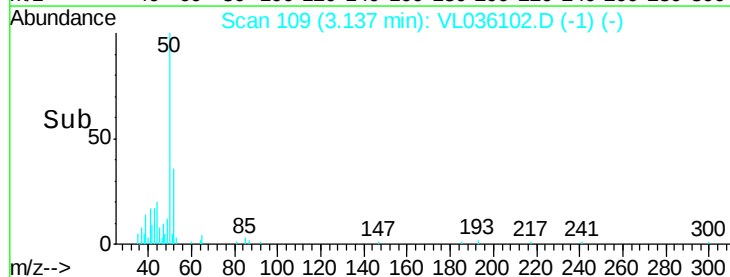
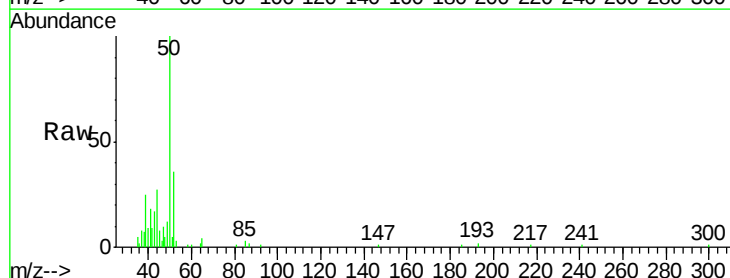
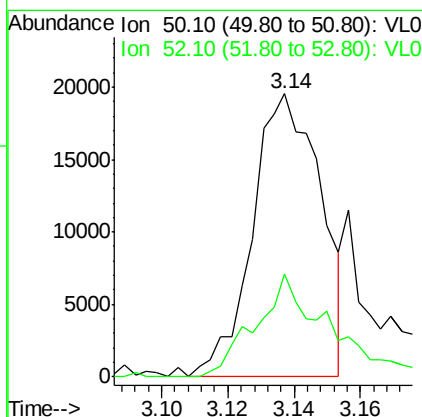
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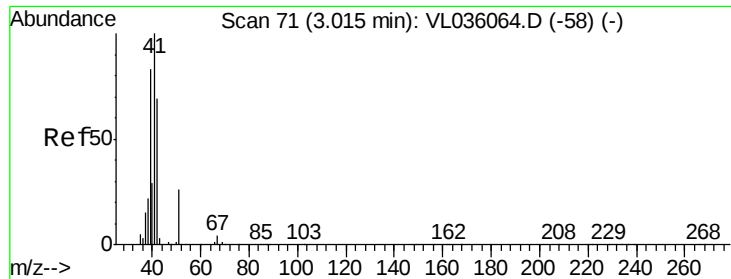
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12/11/2020 12:23:13 PM



#4  
Chloromethane  
Concen: 0.441 ppbv  
RT: 3.14 min Scan# 109  
Delta R.T. -0.01 min  
Lab File: VL036102.D  
Acq: 8 Dec 2020 19:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 50      | 100   |       |       |
| 52      | 36.3  | 26.1  | 39.1  |





#9

Propene

Concen: 11.002 ppbv m

RT: 3.02 min Scan# 72

Delta R.T. 0.00 min

Lab File: VL036102.D

Acq: 8 Dec 2020 19:49

Instrument :

MSVOA\_L

ClientSampleId :

IA-1DUP

Tot Ion: 41 Resp: 716826

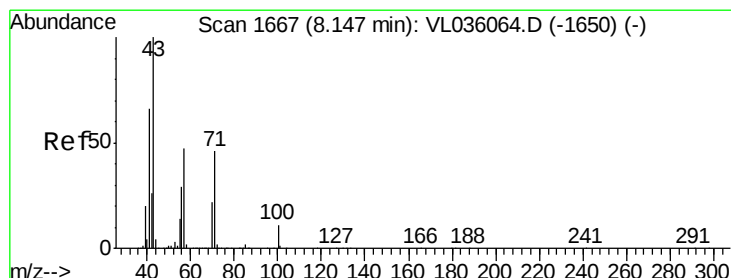
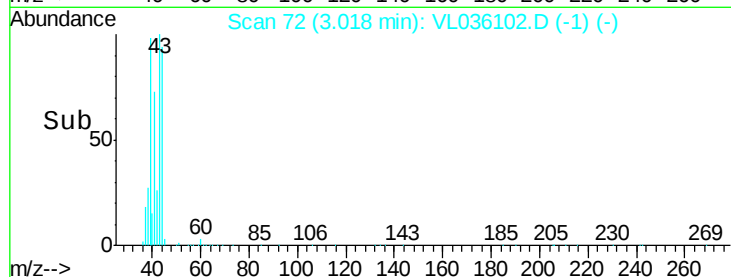
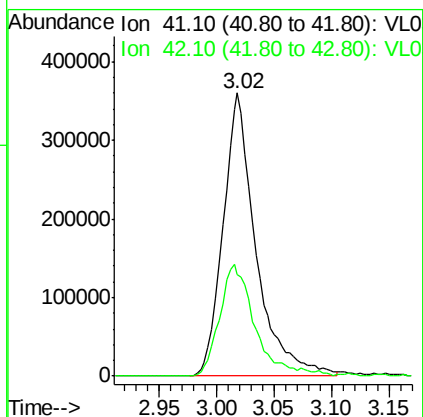
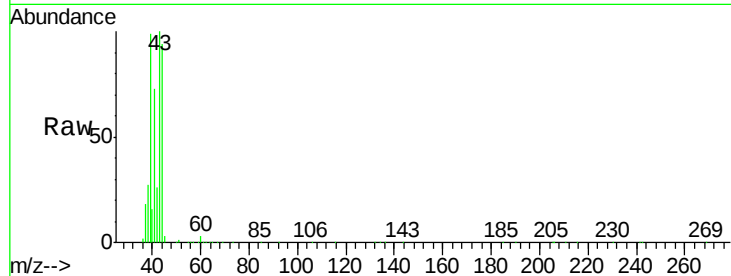
Ion Ratio Lower Upper

41 100

42 50.2 57.0 85.6#

Manual Integrations  
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12/11/2020 12:23:13 PM



#10

Heptane

Concen: 15.289 ppbv

RT: 8.14 min Scan# 1665

Delta R.T. -0.01 min

Lab File: VL036102.D

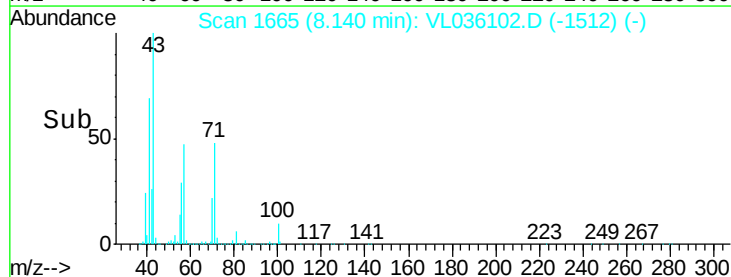
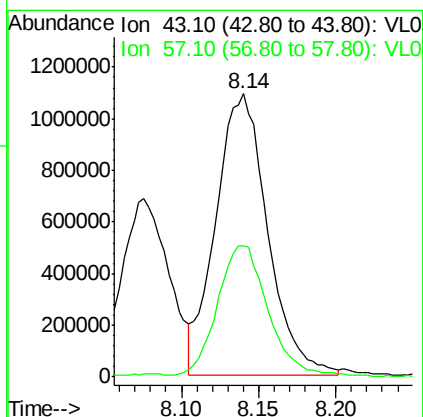
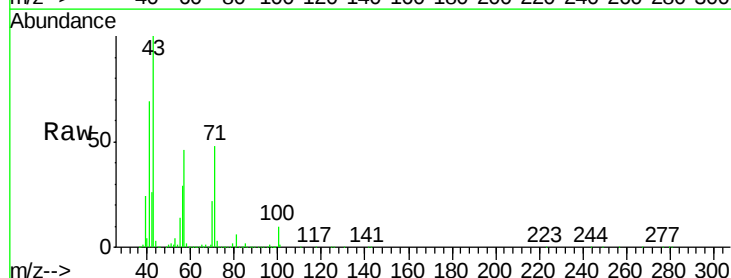
Acq: 8 Dec 2020 19:49

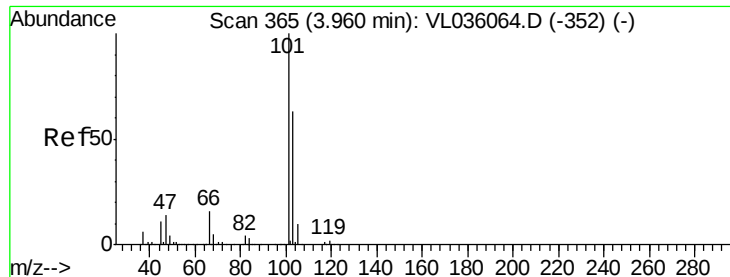
Tgt Ion: 43 Resp: 2544204

Ion Ratio Lower Upper

43 100

57 46.5 37.9 56.9





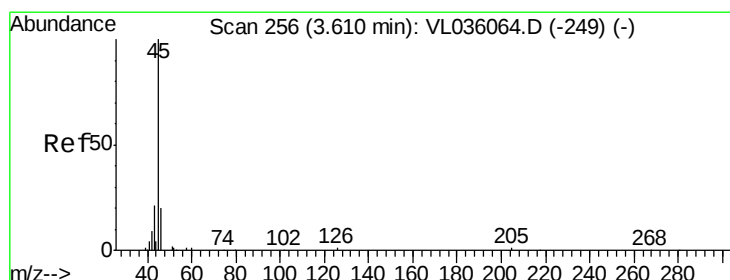
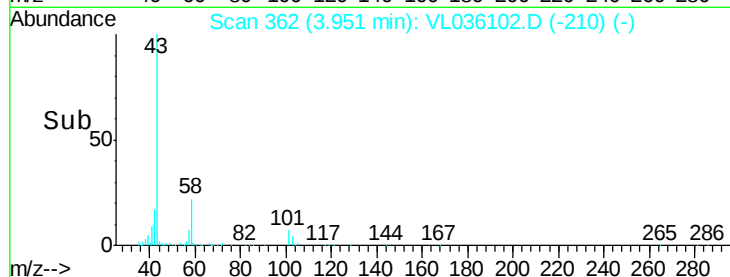
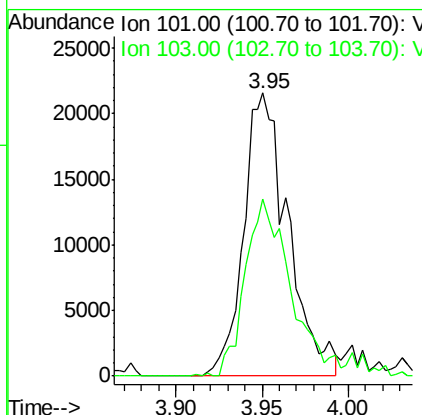
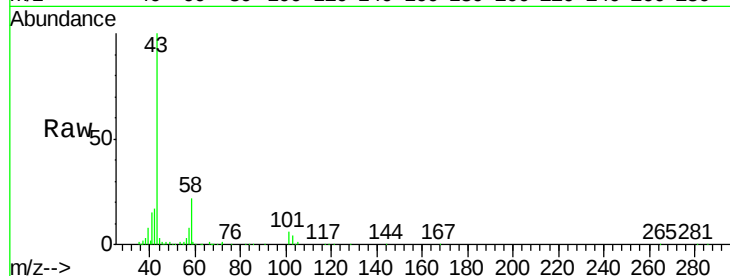
#11  
 Trichlorofluoromethane  
 Concen: 0.247 ppbv m  
 RT: 3.95 min Scan# 362  
 Delta R.T. -0.01 min  
 Lab File: VL036102.D  
 Acq: 8 Dec 2020 19:49

Instrument :  
 MSVOA\_L  
 ClientSampled :  
 IA-1DUP

| Tot Ion | Ion  | Ratio | Resp  | Lower | Upper |
|---------|------|-------|-------|-------|-------|
| 101     | 100  |       | 38513 |       |       |
| 103     | 62.5 | 50.3  | 75.5  |       |       |

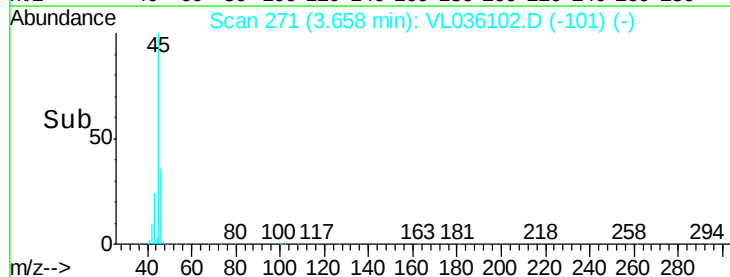
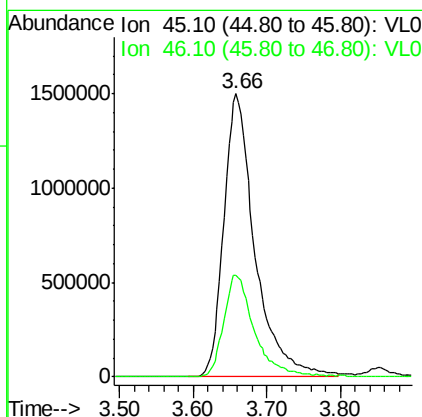
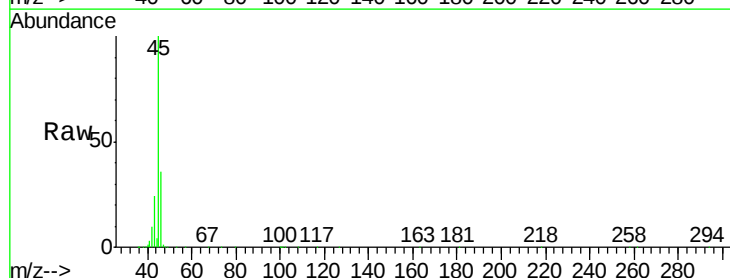
Manual Integrations  
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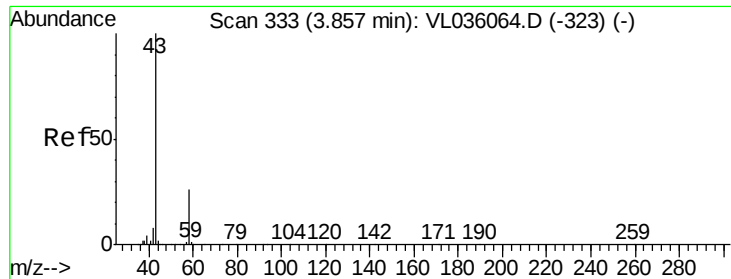
MMDadoda  
 12/11/2020 12:23:13 PM



#13  
 Ethanol  
 Concen: 489.517 ppbv  
 RT: 3.66 min Scan# 271  
 Delta R.T. 0.05 min  
 Lab File: VL036102.D  
 Acq: 8 Dec 2020 19:49

| Tgt Ion | Ion  | Ratio | Resp    | Lower | Upper |
|---------|------|-------|---------|-------|-------|
| 45      | 100  |       | 4396725 |       |       |
| 46      | 36.2 | 19.0  | 75.8    |       |       |





#15

Acetone

Concen: 168.357 ppbv

RT: 3.85 min Scan# 331

Delta R.T. -0.01 min

Lab File: VL036102.D

Acq: 8 Dec 2020 19:49

Instrument :

MSVOA\_L

ClientSampleId :

IA-1DUP

Tot Ion: 43 Resp:23065492

Ion Ratio Lower Upper

43 100

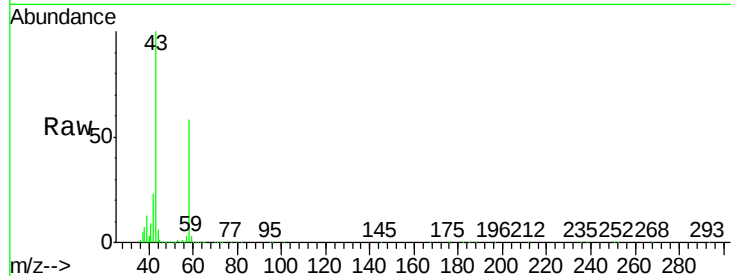
58 38.2 20.9 31.3#

Manual Integrations

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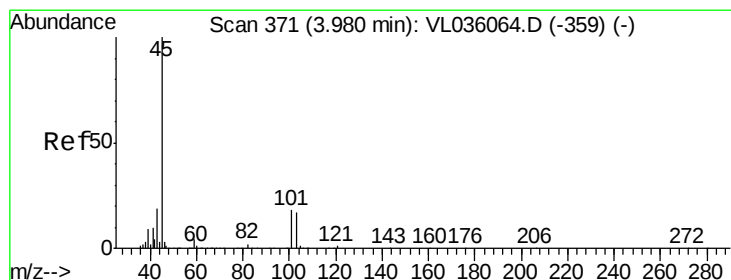
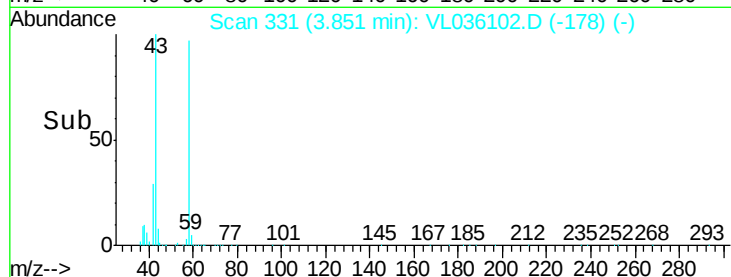
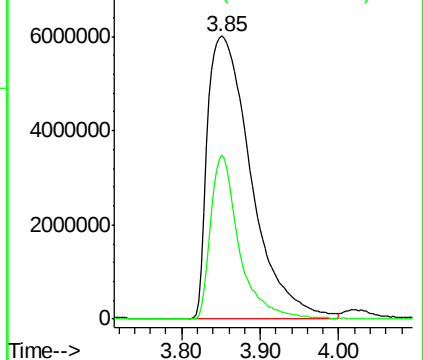
MMDadoda

12/11/2020 12:23:13 PM



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#19

Isopropyl Alcohol

Concen: 19.076 ppbv m

RT: 4.02 min Scan# 384

Delta R.T. 0.04 min

Lab File: VL036102.D

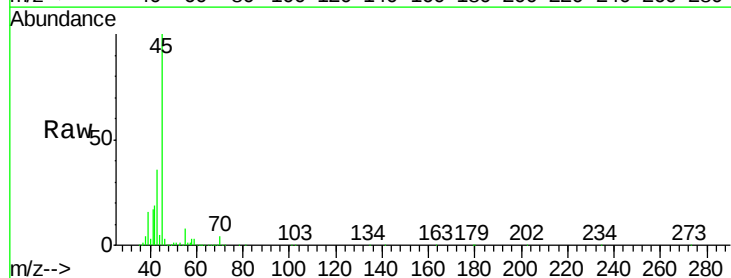
Acq: 8 Dec 2020 19:49

Tgt Ion: 45 Resp: 1597356

Ion Ratio Lower Upper

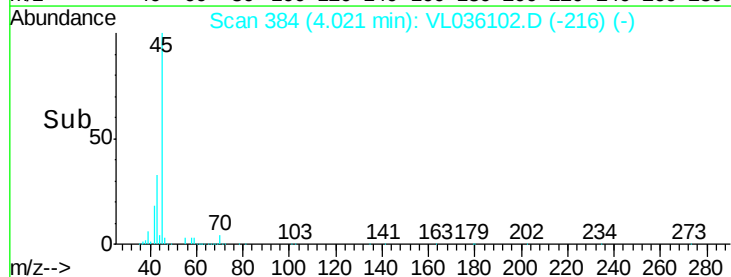
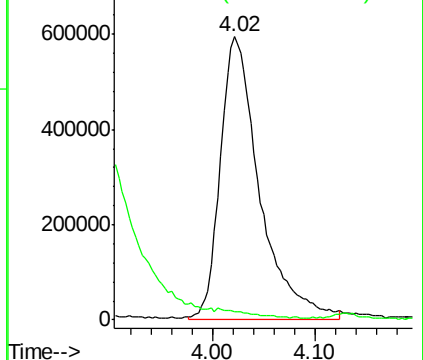
45 100

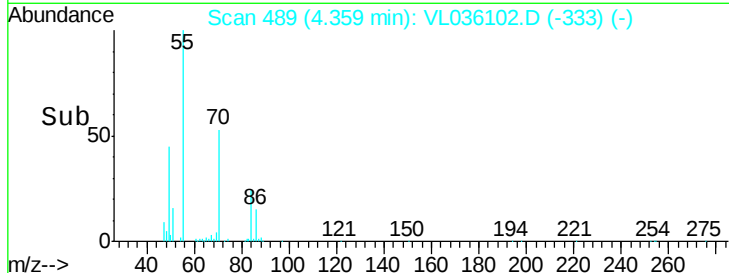
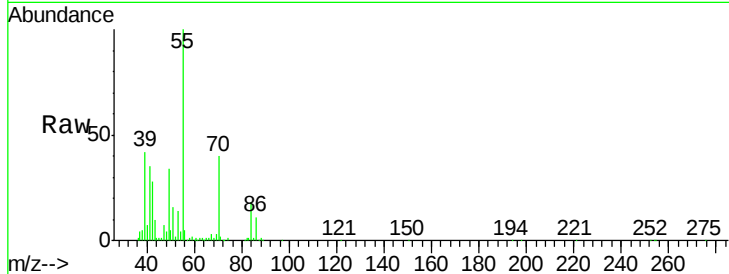
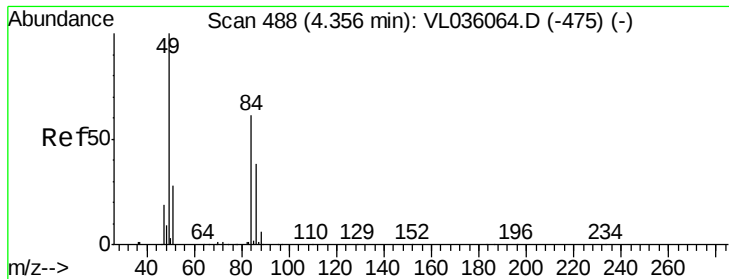
58 0.0 0.0 0.0



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





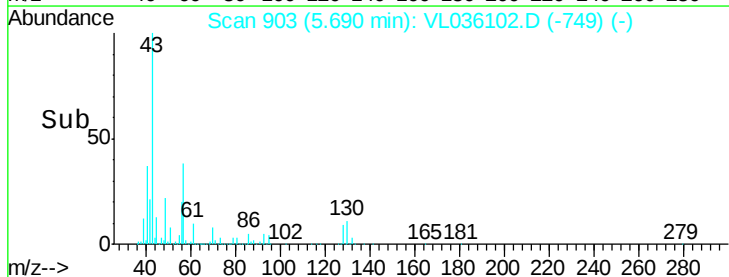
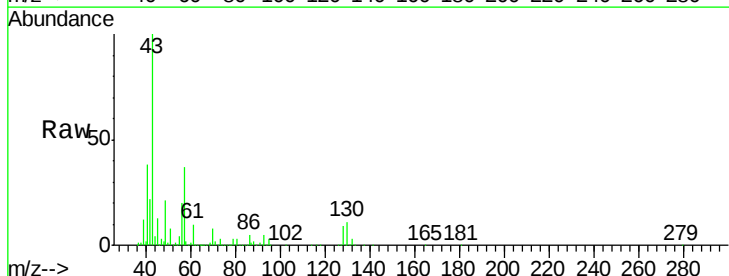
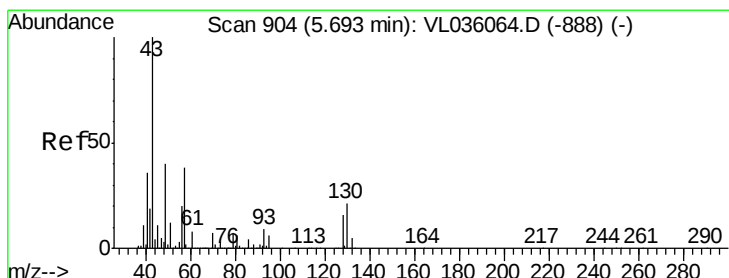
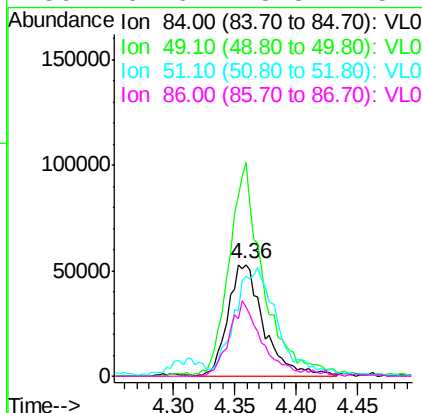
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Methvlene Chloride  
Concen: 1.943 ppbv m  
RT: 4.36 min Scan# 489  
Delta R.T. 0.00 min  
Lab File: VL036102.D  
Acq: 8 Dec 2020 19:49

| Tot Ion | Ion   | Ratio | Lower | Upper |
|---------|-------|-------|-------|-------|
| 84      | 100   |       |       |       |
| 49      | 190.9 | 133.0 | 199.4 |       |
| 51      | 89.1  | 38.9  | 58.3  |       |
| 86      | 61.6  | 48.8  | 73.2  |       |

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-1DUP

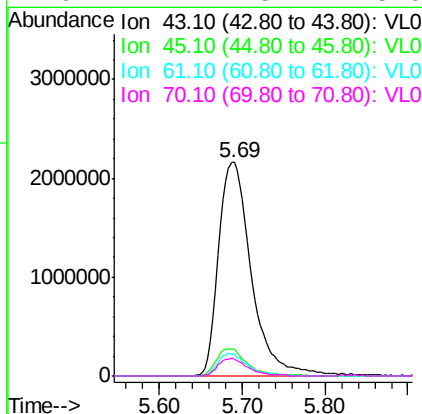
Manual Integrations  
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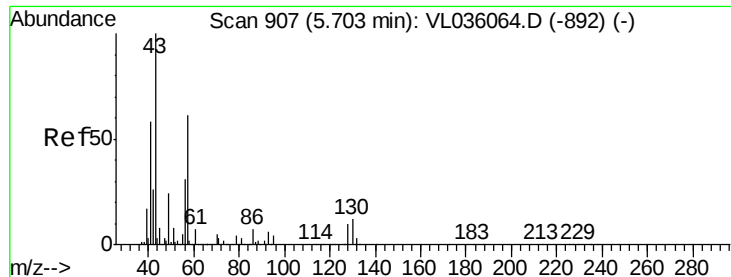
MMDadoda  
12/11/2020 12:23:13 PM



#25  
Ethyl Acetate  
Concen: 21.630 ppbv  
RT: 5.69 min Scan# 903  
Delta R.T. -0.00 min  
Lab File: VL036102.D  
Acq: 8 Dec 2020 19:49

| Tgt Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 43      | 100  |       |       |       |
| 45      | 12.2 | 8.2   | 12.4  |       |
| 61      | 9.6  | 7.4   | 11.2  |       |
| 70      | 7.7  | 5.4   | 8.0   |       |





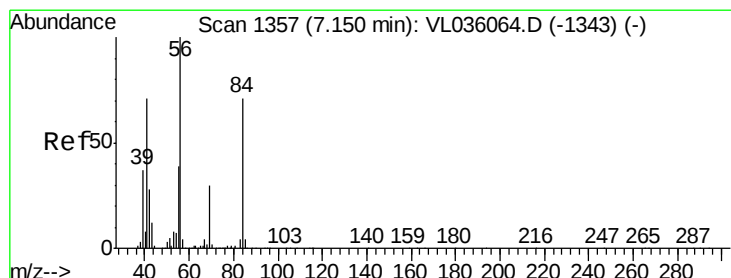
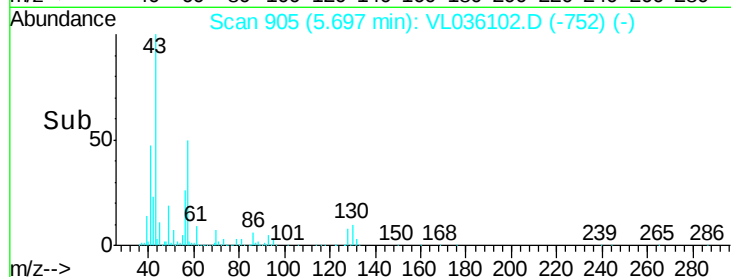
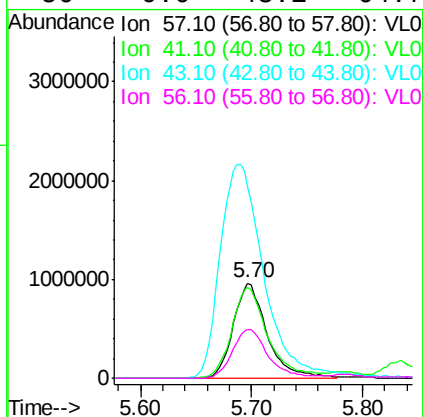
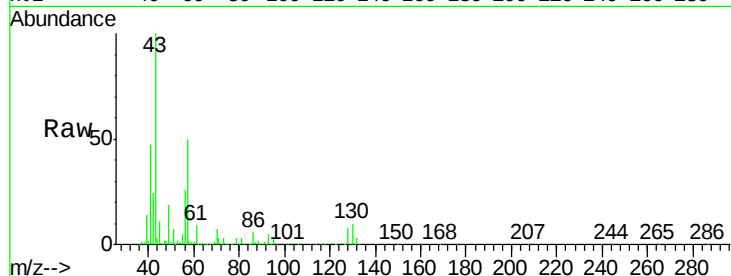
#26  
Hexane  
Concen: 16.572 ppbv m  
RT: 5.70 min Scan# 905  
Delta R.T. -0.01 min  
Lab File: VL036102.D  
Acq: 8 Dec 2020 19:49

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-1DUP

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 57      | 100   |       |        |
| 41      | 0.0   | 82.9  | 124.3# |
| 43      | 0.0   | 199.9 | 299.9# |
| 56      | 0.0   | 43.1  | 64.7#  |

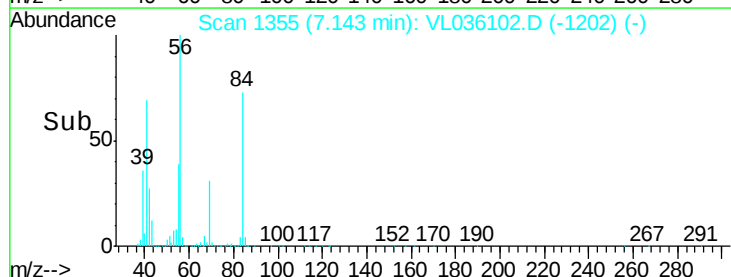
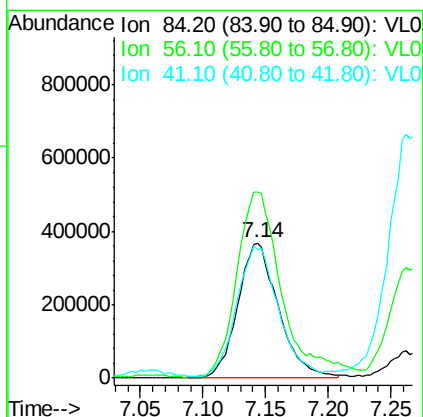
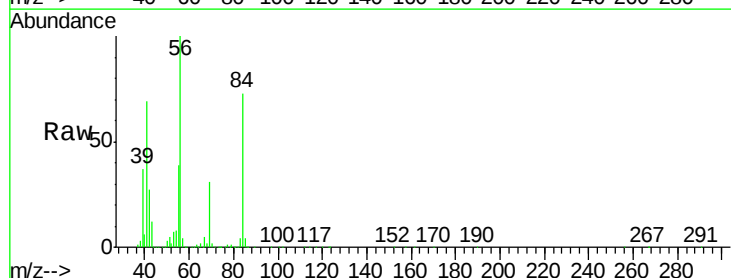
Manual Integrations  
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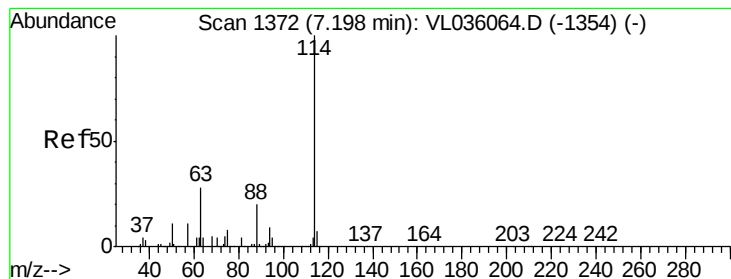
MMDadoda  
12/11/2020 12:23:13 PM



#30  
Cyclohexane  
Concen: 9.163 ppbv  
RT: 7.14 min Scan# 1355  
Delta R.T. -0.01 min  
Lab File: VL036102.D  
Acq: 8 Dec 2020 19:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 84      | 100   |       |       |
| 56      | 152.5 | 128.0 | 192.0 |
| 41      | 99.2  | 81.3  | 121.9 |





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.20 min Scan# 1372

Delta R.T. -0.00 min

Lab File: VL036102.D

Acq: 8 Dec 2020 19:49

Instrument :

MSVOA\_L

ClientSampleId :

IA-1DUP

Tot Ion:114 Resp: 2647283

Ion Ratio Lower Upper

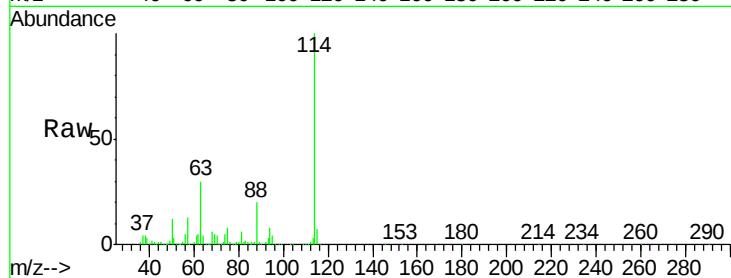
114 100

63 29.9 23.6 35.4

88 19.9 15.8 23.6

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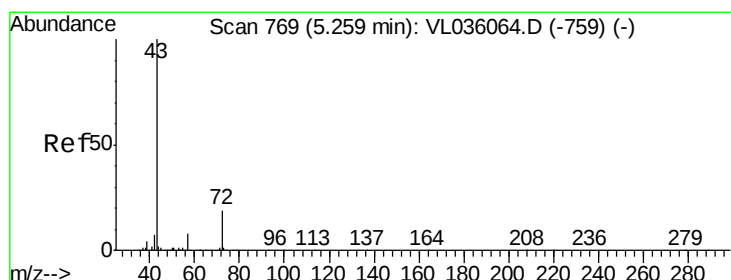
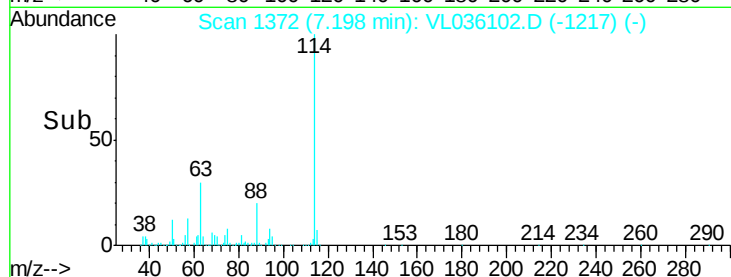
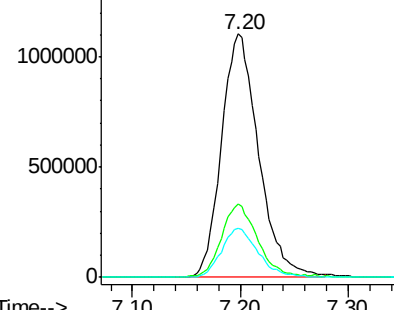
MMDadoda  
12/11/2020 12:23:13 PM



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: 37.962 ppbv

RT: 5.26 min Scan# 769

Delta R.T. -0.00 min

Lab File: VL036102.D

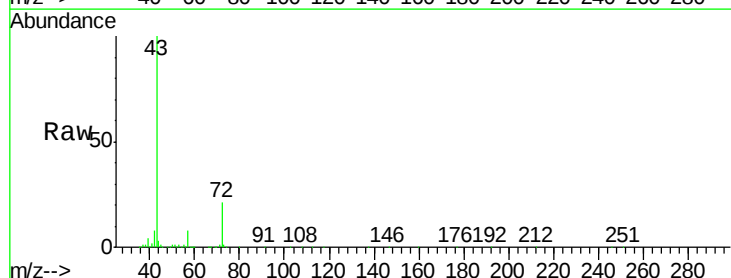
Acq: 8 Dec 2020 19:49

Tgt Ion: 43 Resp: 6666077

Ion Ratio Lower Upper

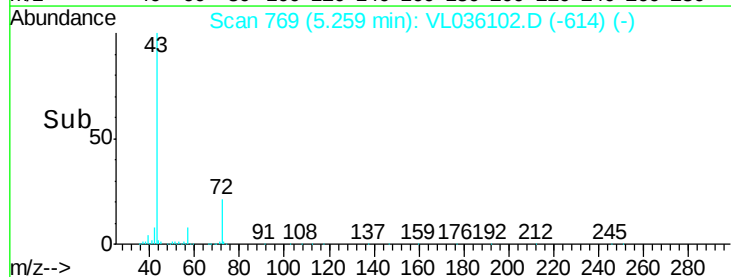
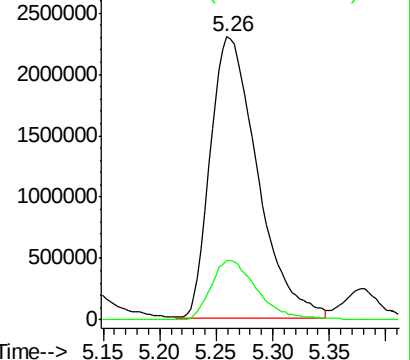
43 100

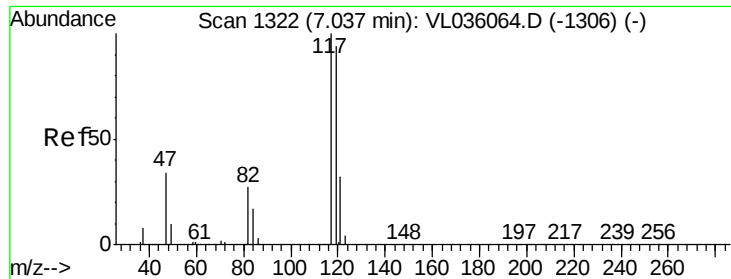
72 21.1 16.5 24.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.065 ppbv m

RT: 7.04 min Scan# 1322

Delta R.T. -0.00 min

Lab File: VL036102.D

Acq: 8 Dec 2020 19:49

Instrument :

MSVOA\_L

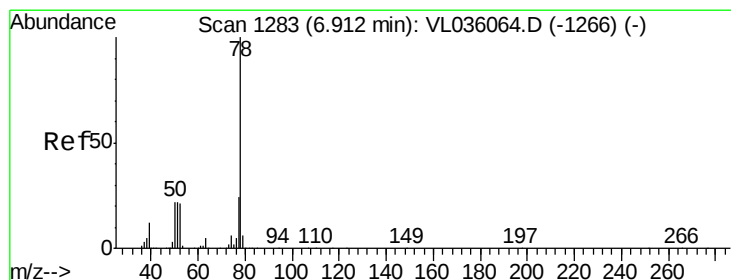
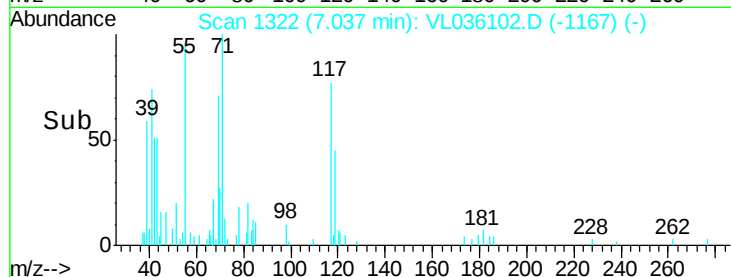
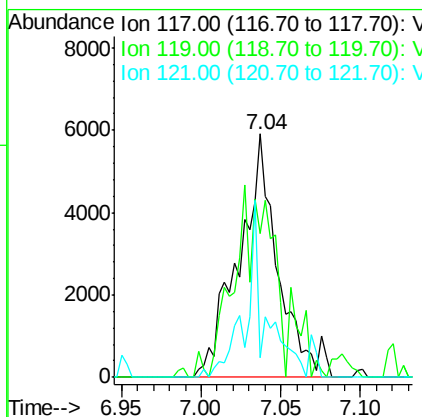
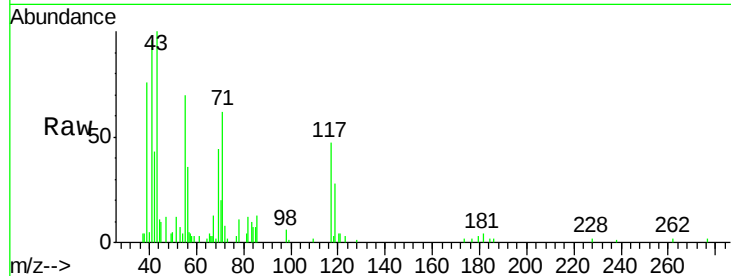
ClientSampleId :

IA-1DUP

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 58.8  | 75.1  | 112.7# |
| 121     | 8.2   | 25.6  | 38.4#  |

Manual Integrations  
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#36

Benzene

Concen: 5.676 ppbv

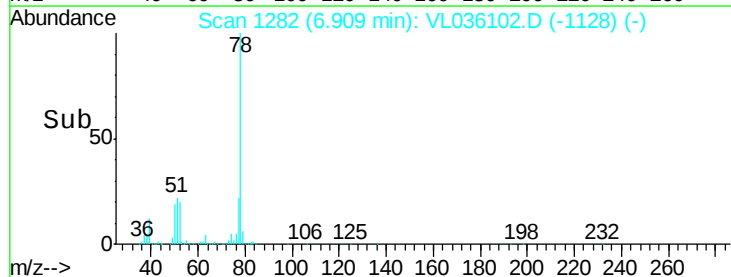
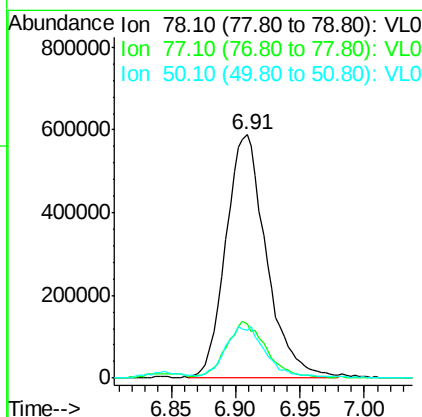
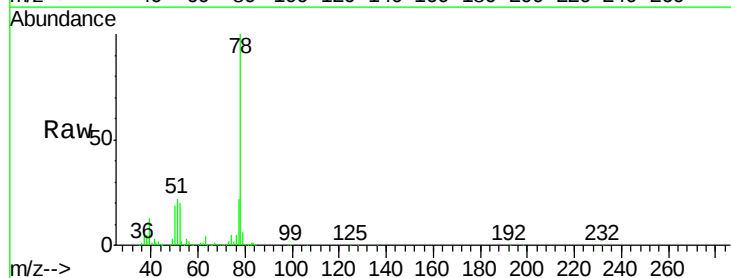
RT: 6.91 min Scan# 1282

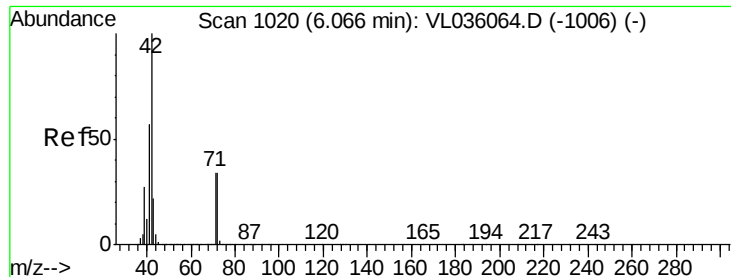
Delta R.T. -0.00 min

Lab File: VL036102.D

Acq: 8 Dec 2020 19:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 78      | 100   |       |       |
| 77      | 21.8  | 19.4  | 29.2  |
| 50      | 19.0  | 17.8  | 26.8  |





#41

Tetrahydrofuran

Concen: 17.568 ppbv

RT: 6.06 min Scan# 1017

Delta R.T. -0.01 min

Lab File: VL036102.D

Acq: 8 Dec 2020 19:49

Instrument :

MSVOA\_L

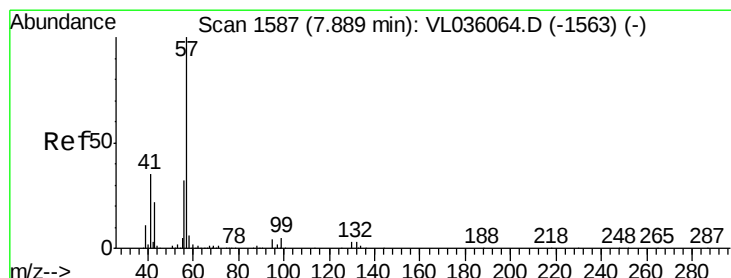
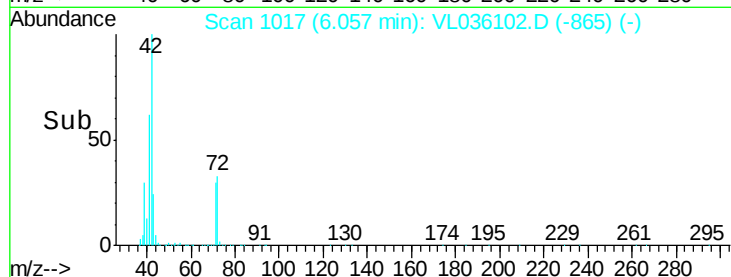
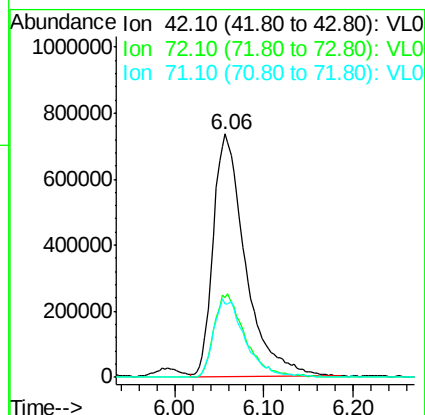
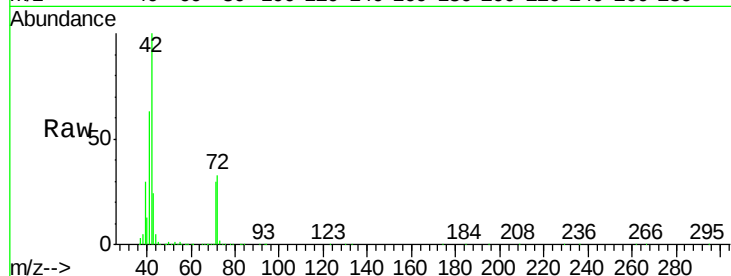
ClientSampled :

IA-1DUP

|          |       |       |         |
|----------|-------|-------|---------|
| Tot Ion: | 42    | Resp: | 1832683 |
| Ion      | Ratio | Lower | Upper   |
| 42       | 100   |       |         |
| 72       | 33.9  | 28.3  | 42.5    |
| 71       | 32.0  | 27.3  | 40.9    |

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#44

2,2,4-Trimethylpentane

Concen: 15.957 ppbv

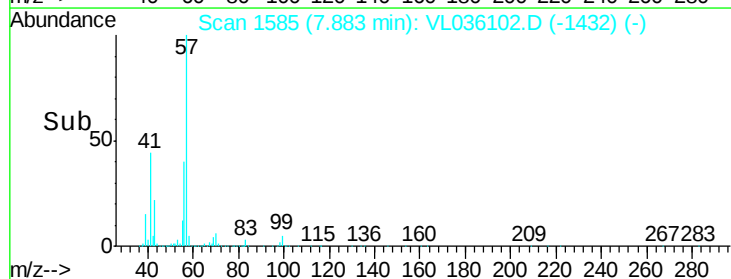
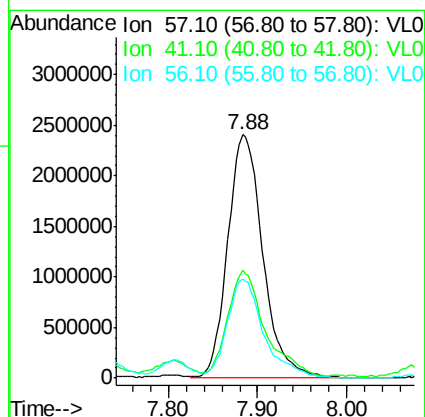
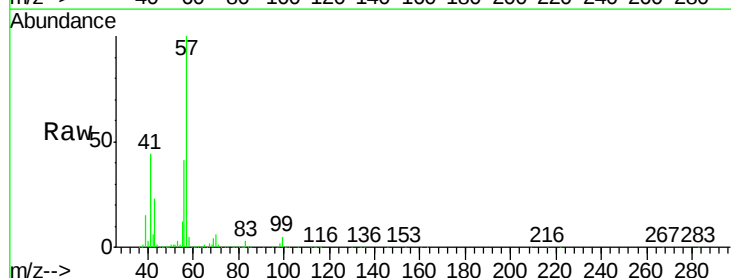
RT: 7.88 min Scan# 1585

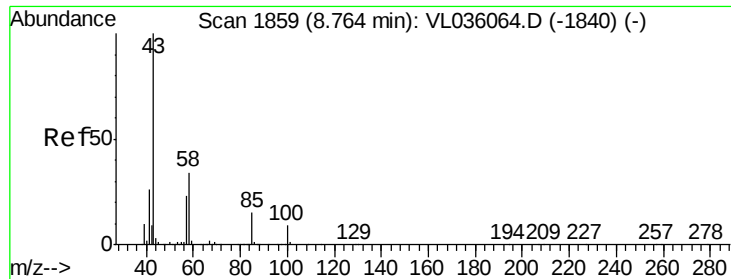
Delta R.T. -0.01 min

Lab File: VL036102.D

Acq: 8 Dec 2020 19:49

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 57    | Resp: | 6483406 |
| Ion      | Ratio | Lower | Upper   |
| 57       | 100   |       |         |
| 41       | 46.4  | 28.9  | 43.3#   |
| 56       | 42.9  | 25.3  | 37.9#   |





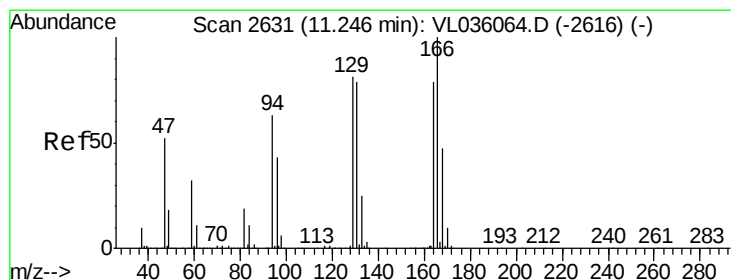
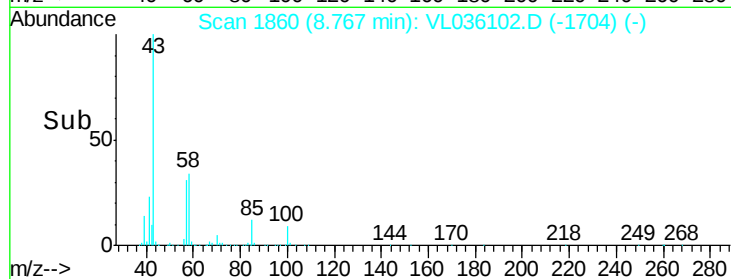
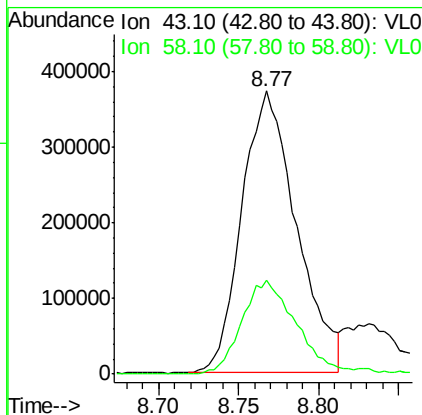
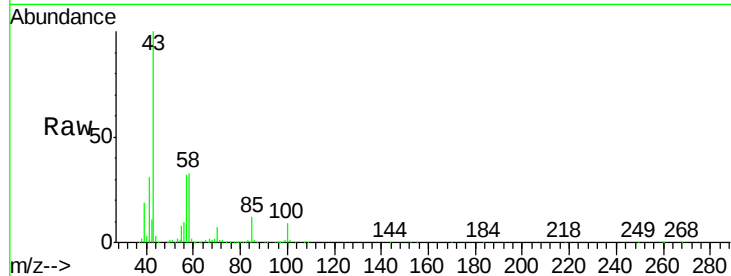
#50  
4-Methyl-2-Pentanone  
Concen: 3.323 ppbv  
RT: 8.77 min Scan# 1860  
Delta R.T. 0.00 min  
Lab File: VL036102.D  
Acq: 8 Dec 2020 19:49

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-1DUP

Tot Ion: 43 Resp: 870259  
Ion Ratio Lower Upper  
43 100  
58 34.4 27.4 41.2

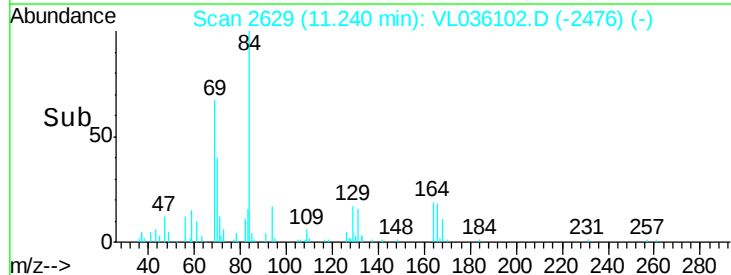
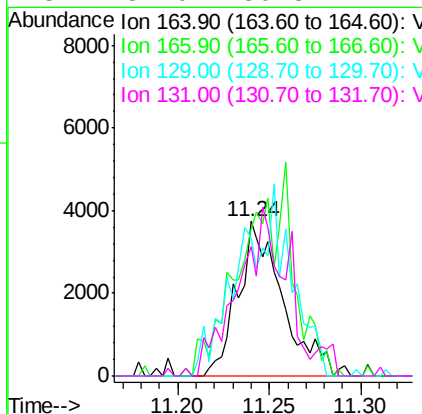
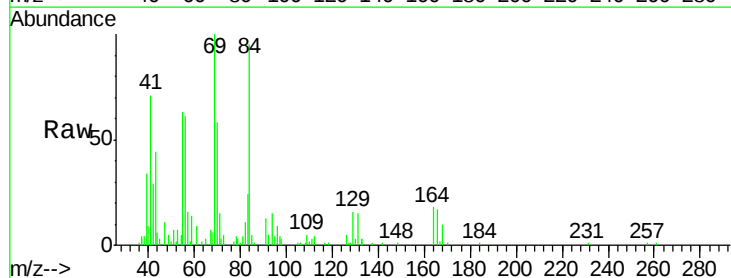
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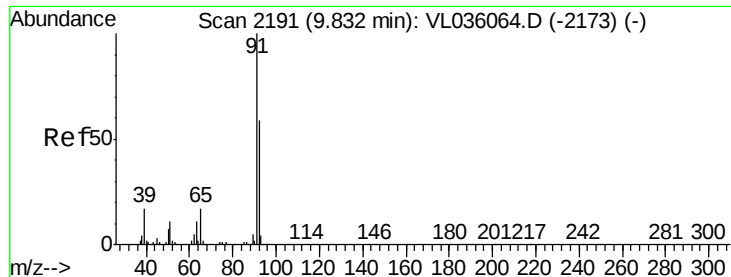
MMDadoda  
12/11/2020 12:23:13 PM



#52  
Tetrachloroethene  
Concen: 0.079 ppbv m  
RT: 11.24 min Scan# 2629  
Delta R.T. -0.01 min  
Lab File: VL036102.D  
Acq: 8 Dec 2020 19:49

Tgt Ion: 164 Resp: 6376  
Ion Ratio Lower Upper  
164 100  
166 94.9 101.9 152.9#  
129 89.2 82.1 123.1  
131 84.0 80.8 121.2





#53

Toluene

Concen: 75.807 ppbv

RT: 9.83 min Scan# 2192

Delta R.T. 0.00 min

Lab File: VL036102.D

Acq: 8 Dec 2020 19:49

Instrument :

MSVOA\_L

ClientSampleId :

IA-1DUP

Tot Ion: 91 Resp:19097564

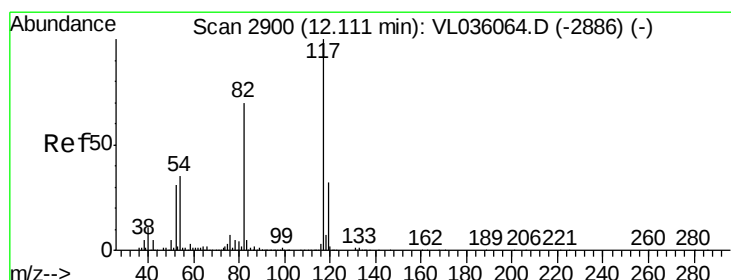
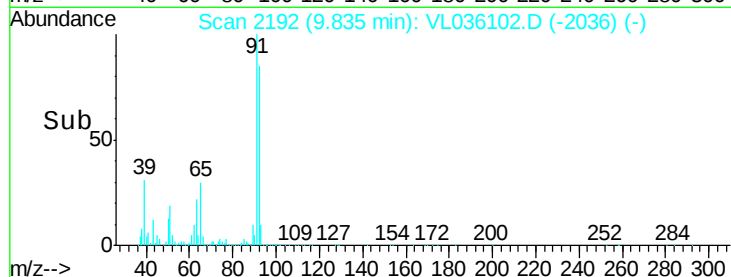
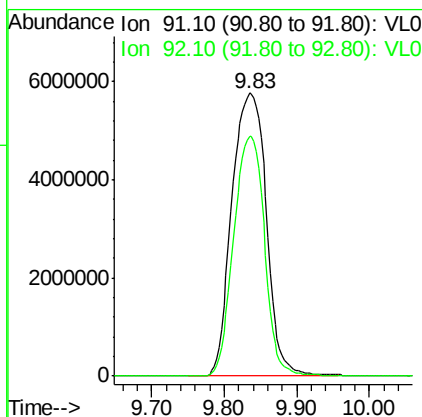
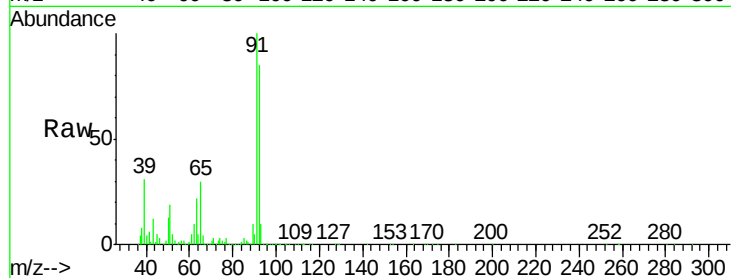
Ion Ratio Lower Upper

91 100

92 76.1 48.2 72.2#

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2899

Delta R.T. -0.00 min

Lab File: VL036102.D

Acq: 8 Dec 2020 19:49

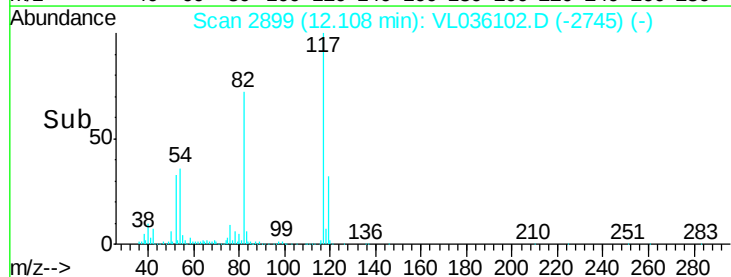
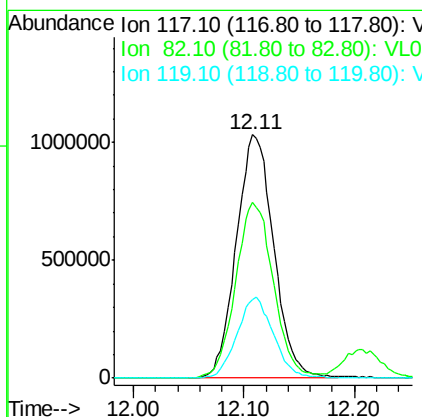
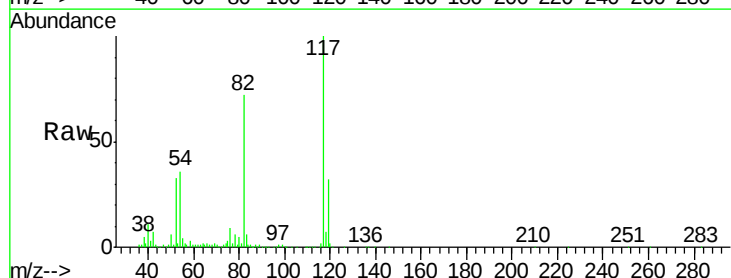
Tgt Ion:117 Resp: 2421775

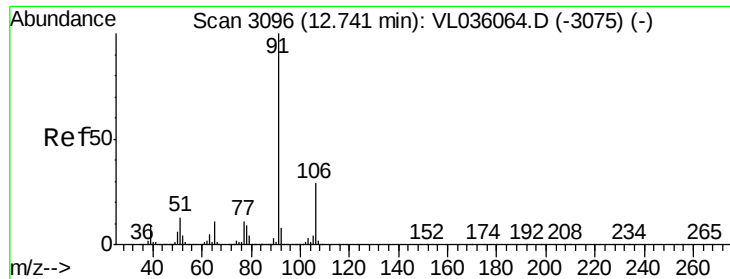
Ion Ratio Lower Upper

117 100

82 73.2 0.0 0.0#

119 32.6 0.0 0.0#





#58

Ethyl Benzene

Concen: 19.106 ppbv

RT: 12.73 min Scan# 3094

Delta R.T. -0.01 min

Lab File: VL036102.D

Acq: 8 Dec 2020 19:49

Instrument :

MSVOA\_L

ClientSampled :

IA-1DUP

Tot Ion: 91 Resp: 6341181

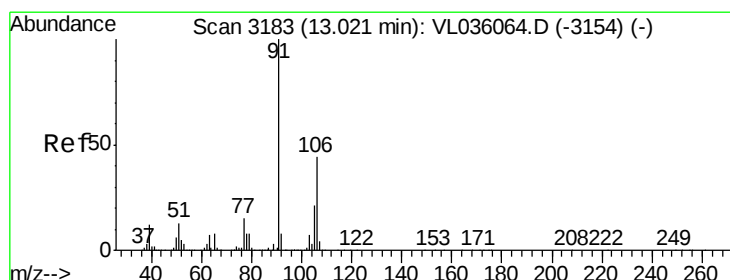
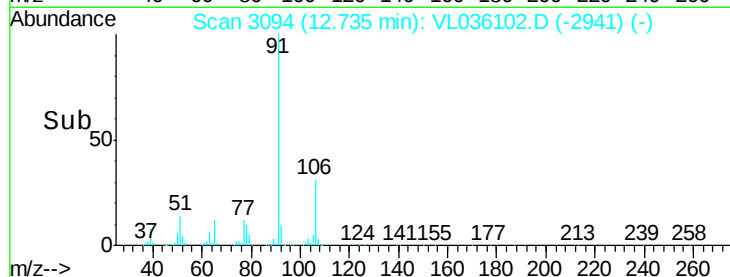
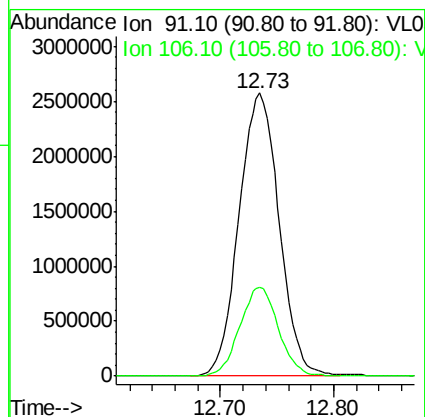
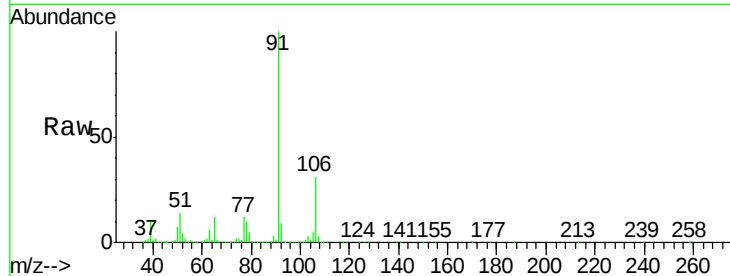
Ion Ratio Lower Upper

91 100

106 31.2 23.0 34.4

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#59

m/p-Xylene

Concen: 56.477 ppbv

RT: 13.00 min Scan# 3175

Delta R.T. -0.03 min

Lab File: VL036102.D

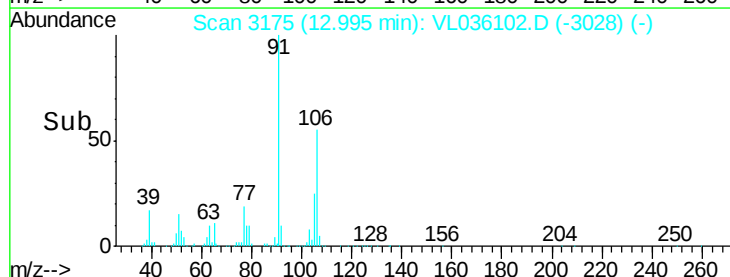
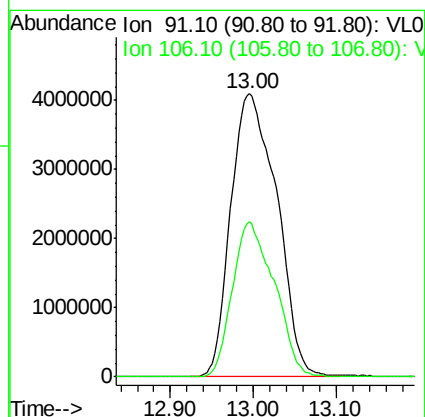
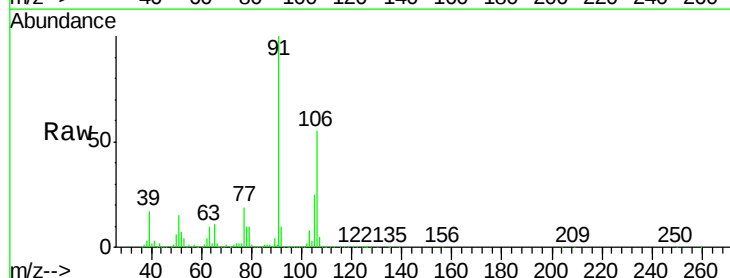
Acq: 8 Dec 2020 19:49

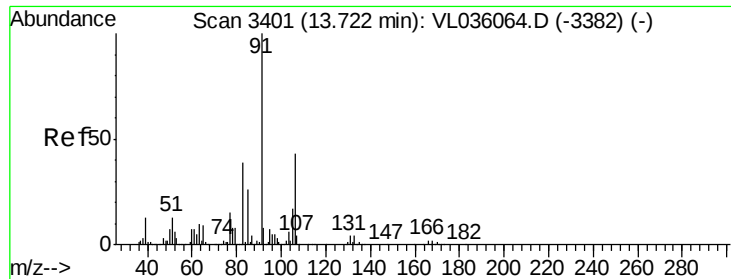
Tgt Ion: 91 Resp: 15787317

Ion Ratio Lower Upper

91 100

106 50.3 33.6 50.4





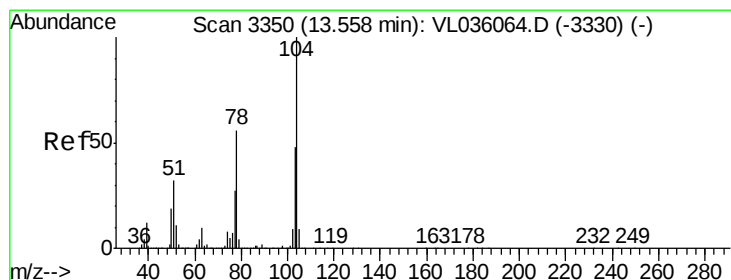
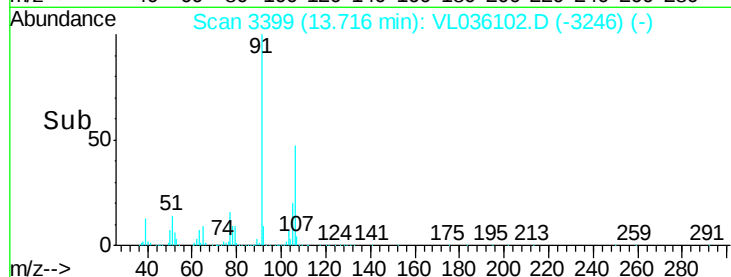
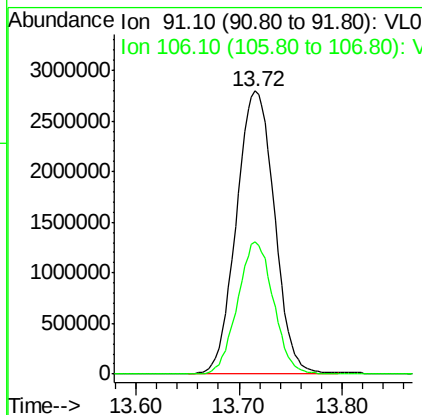
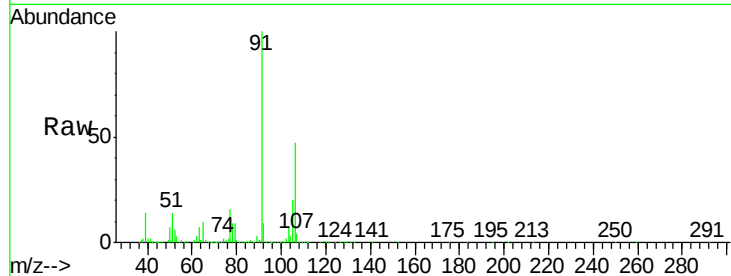
#60  
o-Xylene  
Concen: 27.192 ppbv  
RT: 13.72 min Scan# 3399  
Delta R.T. -0.01 min  
Lab File: VL036102.D  
Acq: 8 Dec 2020 19:49

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-1DUP

Tot Ion: 91 Resp: 7161611  
Ion Ratio Lower Upper  
91 100  
106 44.2 21.6 64.6

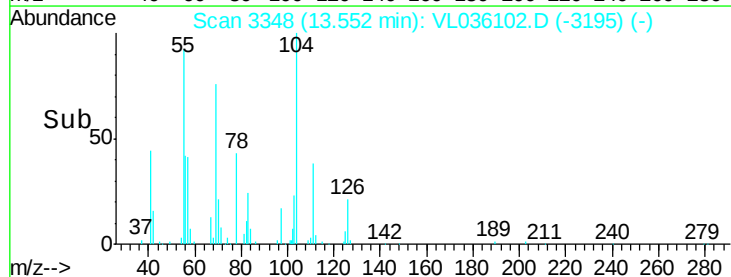
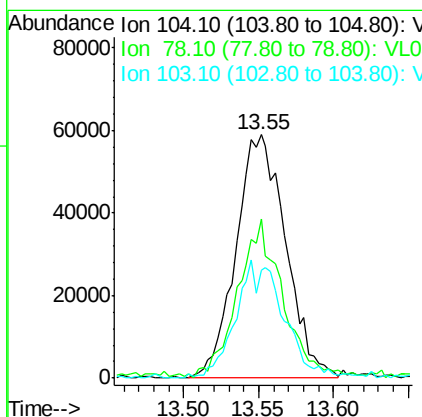
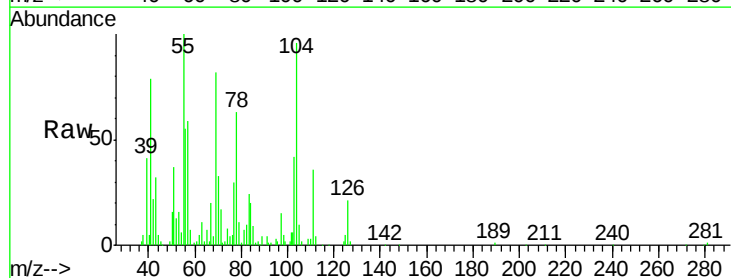
Manual Integrations  
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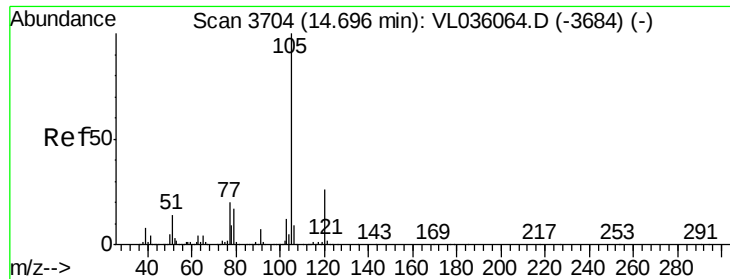
MMDadoda  
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#61  
Styrene  
Concen: 0.808 ppbv  
RT: 13.55 min Scan# 3348  
Delta R.T. -0.01 min  
Lab File: VL036102.D  
Acq: 8 Dec 2020 19:49

Tgt Ion: 104 Resp: 136692  
Ion Ratio Lower Upper  
104 100  
78 59.5 45.8 68.8  
103 46.8 38.6 57.8





#62

Isopropylbenzene

Concen: 1.922 ppbv

RT: 14.69 min Scan# 3701

Delta R.T. -0.01 min

Lab File: VL036102.D

Acq: 8 Dec 2020 19:49

Instrument :

MSVOA\_L

ClientSampleId :

IA-1DUP

Tot Ion:105 Resp: 750325

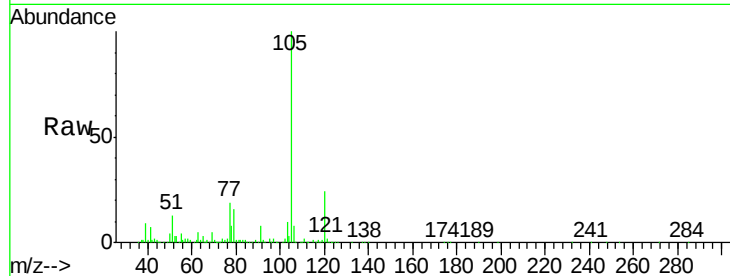
Ion Ratio Lower Upper

105 100

120 23.3 20.1 30.1

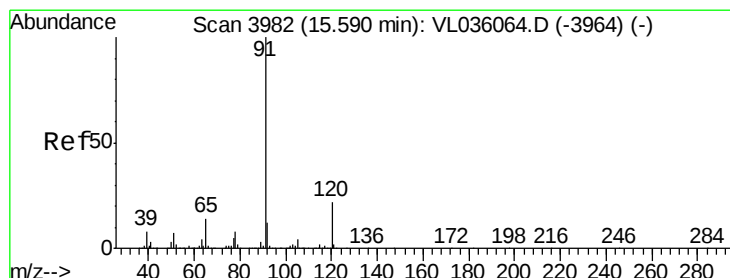
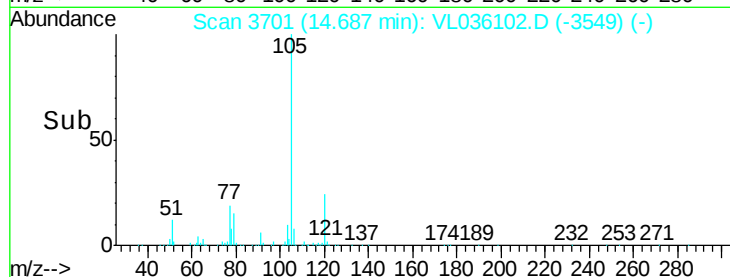
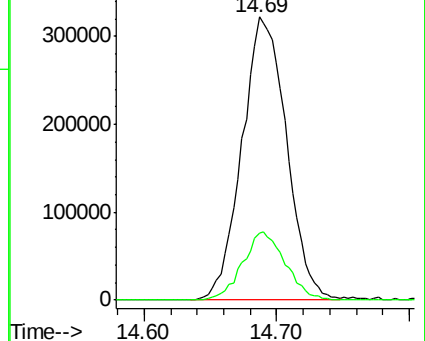
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#64

n-propylbenzene

Concen: 7.302 ppbv

RT: 15.58 min Scan# 3980

Delta R.T. -0.01 min

Lab File: VL036102.D

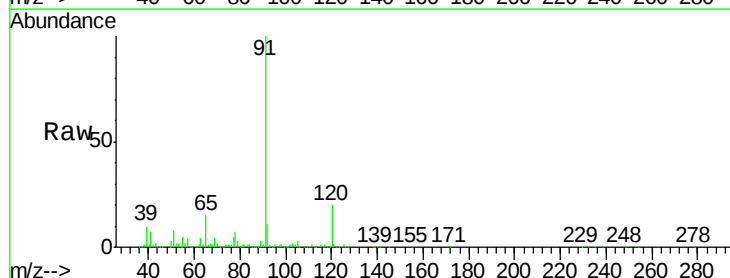
Acq: 8 Dec 2020 19:49

Tgt Ion:120 Resp: 685830

Ion Ratio Lower Upper

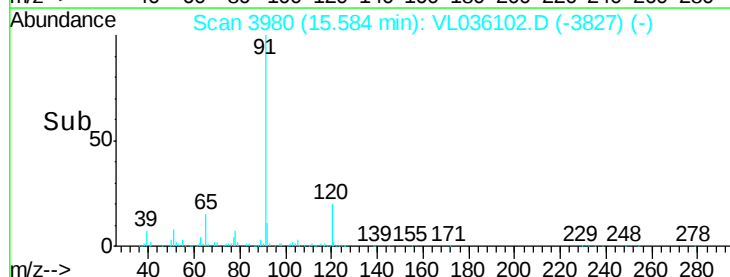
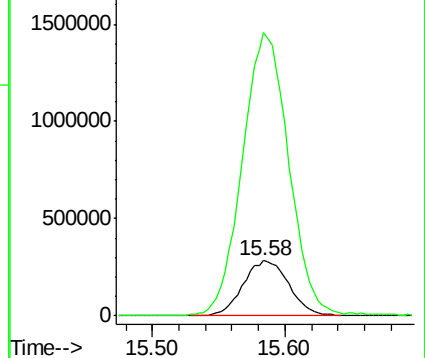
120 100

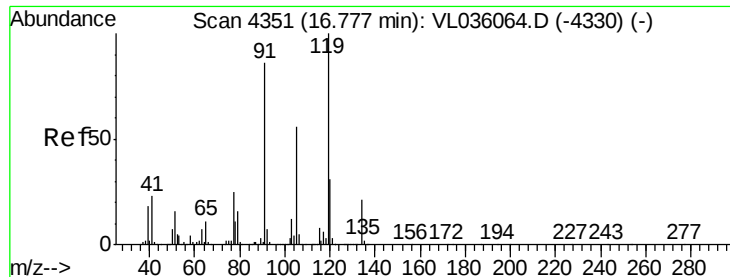
91 520.2 388.9 583.3



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 3.449 ppbv

RT: 16.79 min Scan# 4356

Delta R.T. 0.02 min

Lab File: VL036102.D

Acq: 8 Dec 2020 19:49

Instrument :

MSVOA\_L

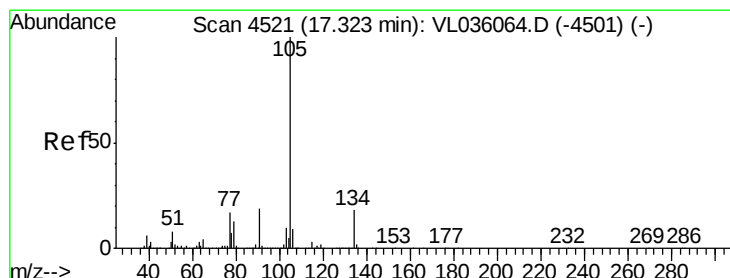
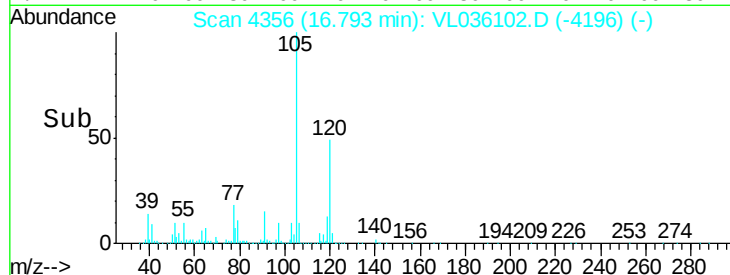
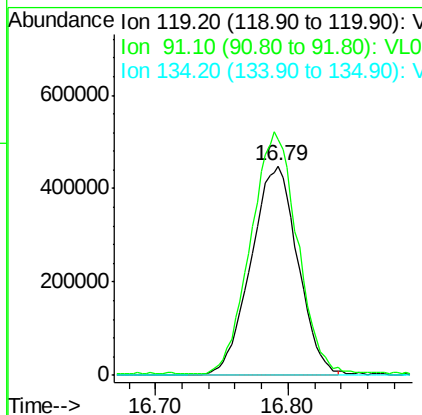
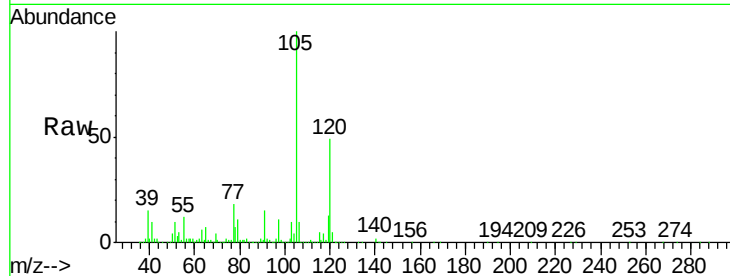
ClientSampled :

IA-1DUP

Tot Ion:119 Resp: 1102117  
 Ion Ratio Lower Upper  
 119 100  
 91 116.2 70.2 105.2#  
 134 0.1 15.8 23.6#

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#67

sec-Butylbenzene

Concen: 0.649 ppbv

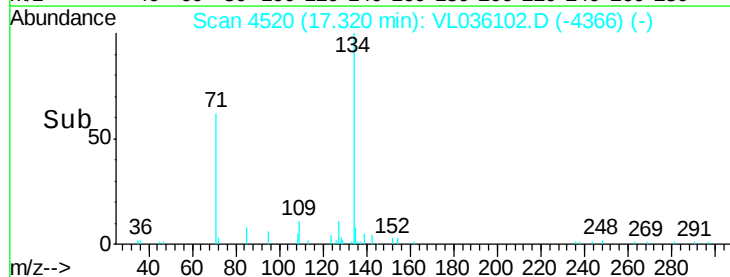
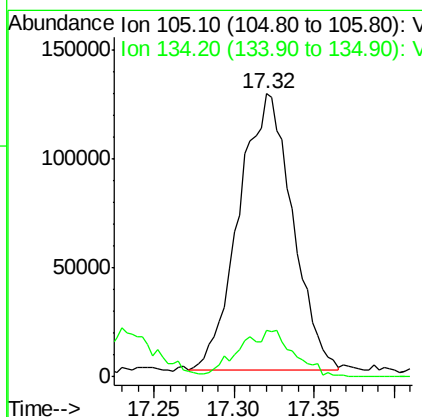
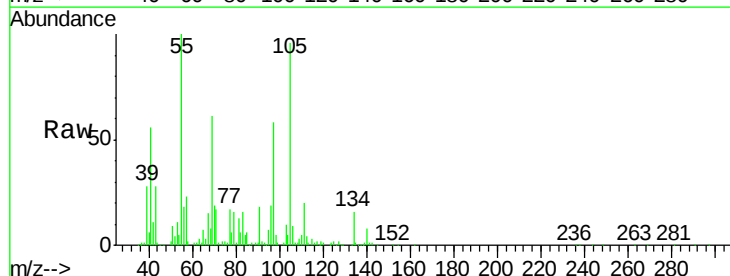
RT: 17.32 min Scan# 4520

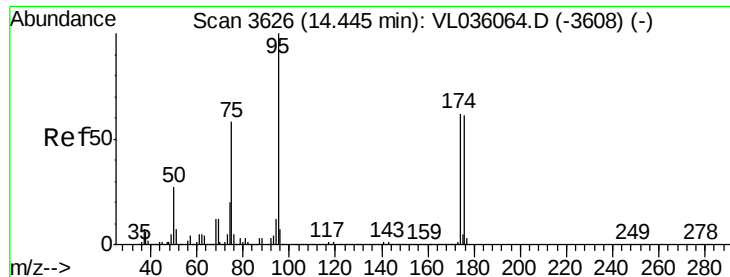
Delta R.T. -0.00 min

Lab File: VL036102.D

Acq: 8 Dec 2020 19:49

Tgt Ion:105 Resp: 290129  
 Ion Ratio Lower Upper  
 105 100  
 134 17.4 14.2 21.4





#68

1-Bromo-4-Fluorobenzene

Concen: 10.994 ppbv

RT: 14.44 min Scan# 3624

Delta R.T. -0.01 min

Lab File: VL036102.D

Acq: 8 Dec 2020 19:49

Instrument :

MSVOA\_L

ClientSampleId :

IA-1DUP

Tot Ion: 95 Resp: 2114093

Ion Ratio Lower Upper

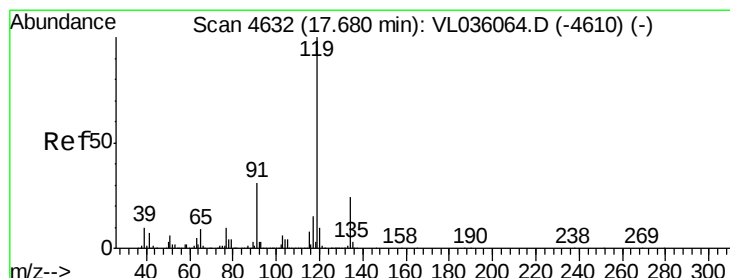
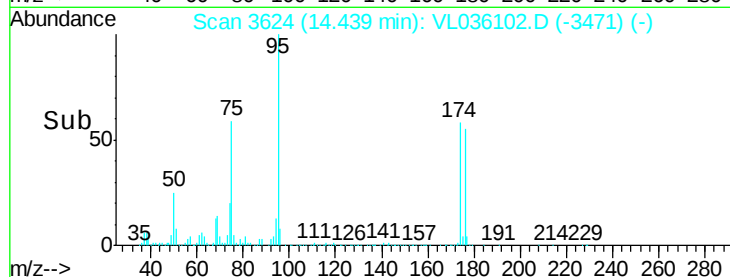
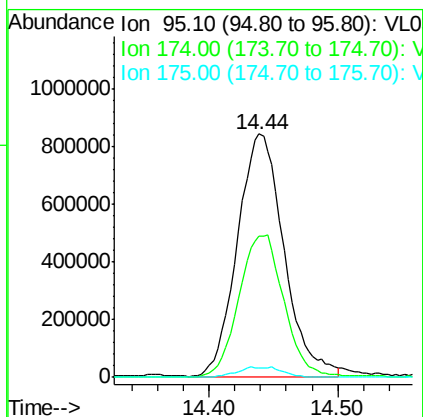
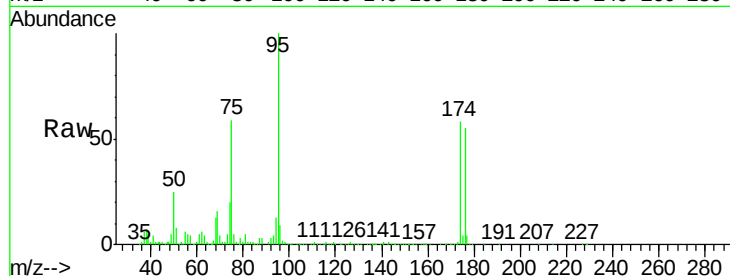
95 100

174 57.4 50.7 76.1

175 4.2 4.0 6.0

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#69

p-Isopropyltoluene

Concen: 0.441 ppbv m

RT: 17.68 min Scan# 4632

Delta R.T. -0.00 min

Lab File: VL036102.D

Acq: 8 Dec 2020 19:49

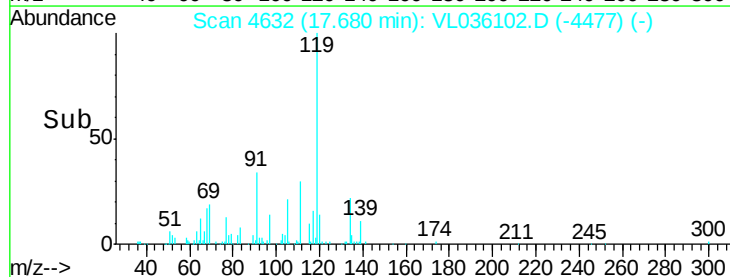
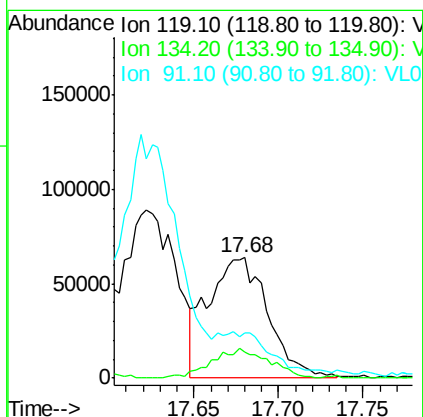
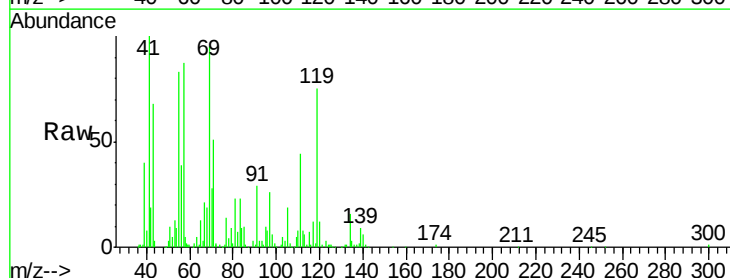
Tgt Ion: 119 Resp: 156912

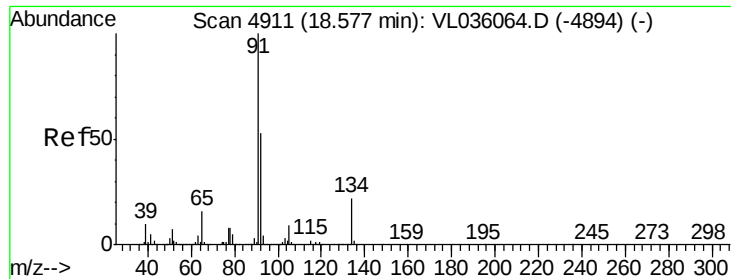
Ion Ratio Lower Upper

119 100

134 62.1 19.8 29.6#

91 86.7 25.8 38.6#





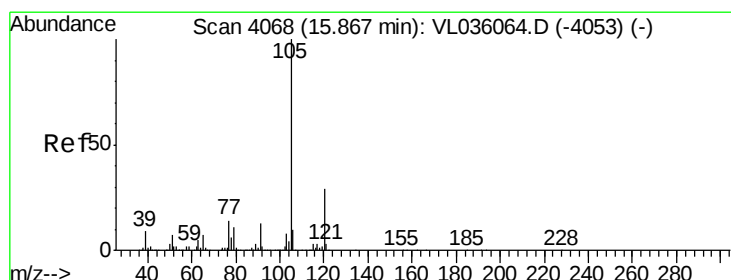
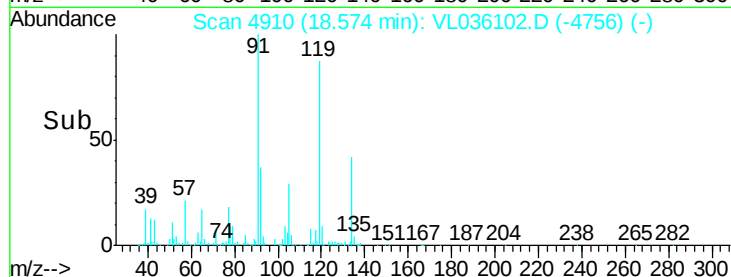
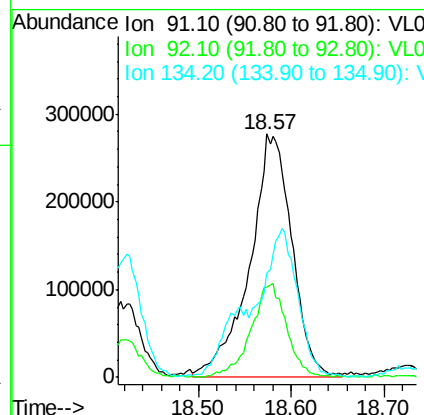
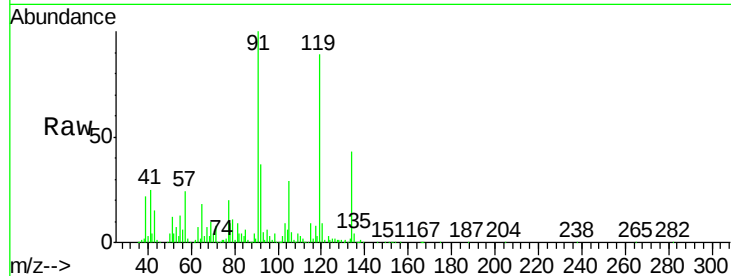
#70  
n-Butylbenzene  
Concen: 2.493 ppbv m  
RT: 18.57 min Scan# 4910  
Delta R.T. -0.00 min  
Lab File: VL036102.D  
Acq: 8 Dec 2020 19:49

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-1DUP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 0.0   | 43.3  | 64.9# |
| 134     | 0.0   | 17.1  | 25.7# |

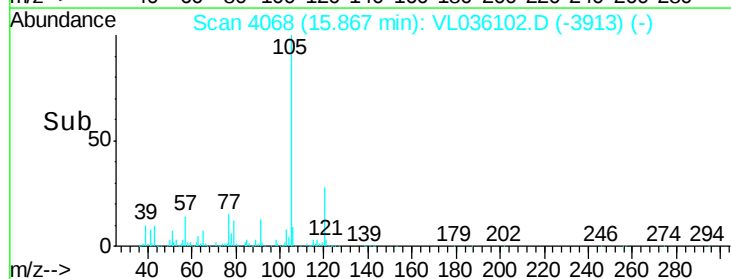
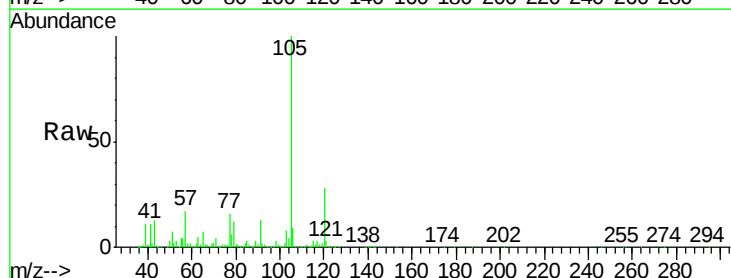
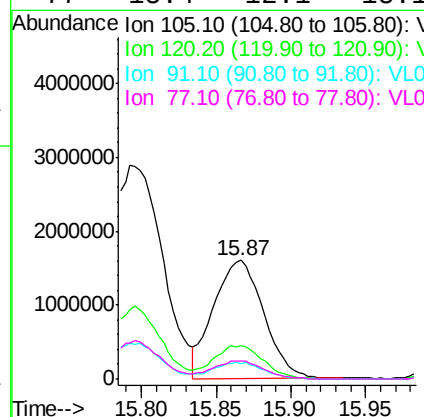
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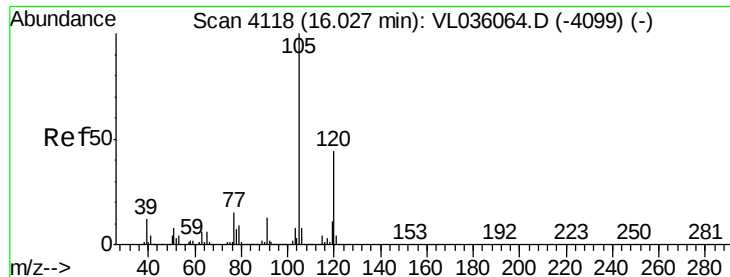
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#72  
4-Ethyltoluene  
Concen: 13.062 ppbv  
RT: 15.87 min Scan# 4068  
Delta R.T. -0.00 min  
Lab File: VL036102.D  
Acq: 8 Dec 2020 19:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 28.3  | 23.6  | 35.4  |
| 91      | 13.6  | 11.4  | 17.0  |
| 77      | 15.4  | 12.1  | 18.1  |





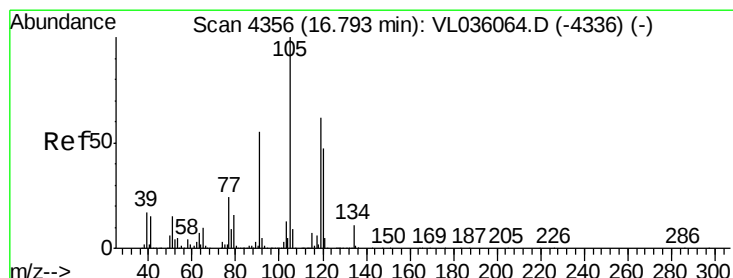
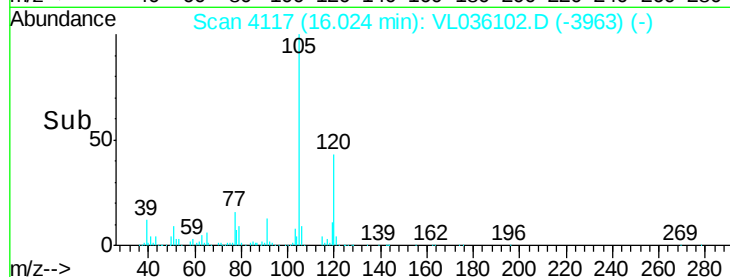
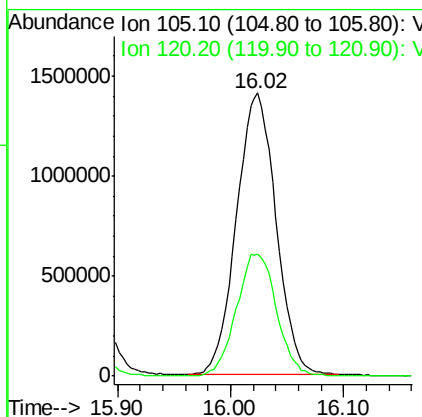
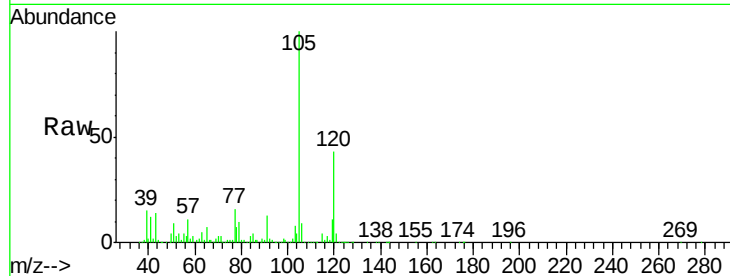
#73  
 1,3,5-Trimethylbenzene  
 Concen: 12.538 ppbv  
 RT: 16.02 min Scan# 4117  
 Delta R.T. -0.00 min  
 Lab File: VL036102.D  
 Acq: 8 Dec 2020 19:49

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA-1DUP

Tot Ion:105 Resp: 3416296  
 Ion Ratio Lower Upper  
 105 100  
 120 42.9 35.4 53.2

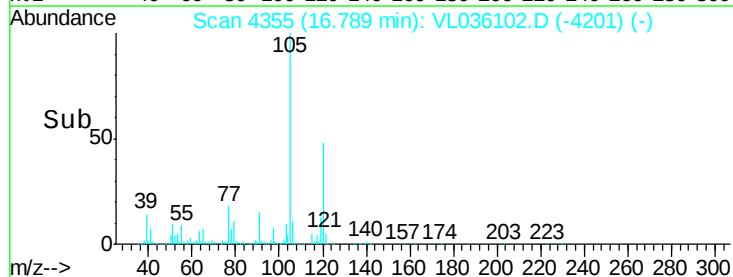
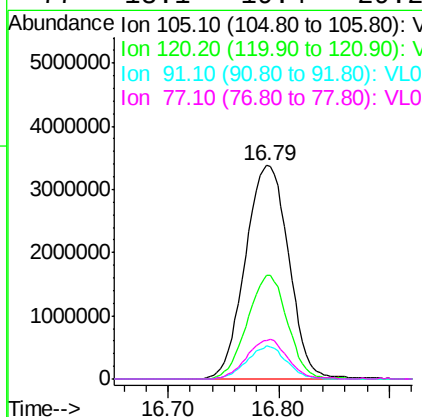
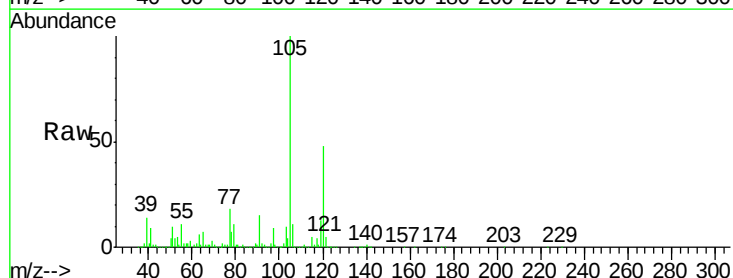
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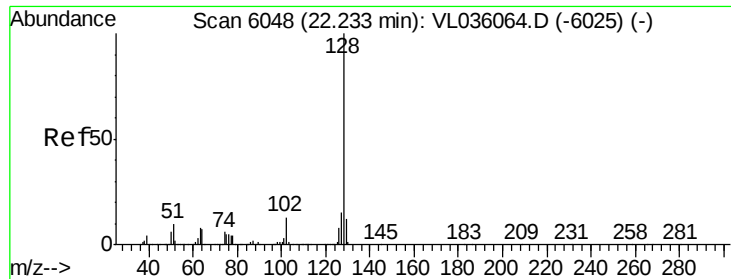
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#74  
 1,2,4-Trimethylbenzene  
 Concen: 33.539 ppbv  
 RT: 16.79 min Scan# 4355  
 Delta R.T. -0.00 min  
 Lab File: VL036102.D  
 Acq: 8 Dec 2020 19:49

Tgt Ion:105 Resp: 9173249  
 Ion Ratio Lower Upper  
 105 100  
 120 48.3 37.4 56.0  
 91 15.3 45.6 68.4#  
 77 18.1 19.4 29.2#





#79

Naphthalene

Concen: 3.436 ppbv

RT: 22.23 min Scan# 6047

Delta R.T. -0.00 min

Lab File: VL036102.D

Acq: 8 Dec 2020 19:49

Instrument :

MSVOA\_L

ClientSampleId :

IA-1DUP

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 128   | Resp: | 477720 |
| Ion Ratio | Lower | Upper |        |
| 128       | 100   |       |        |
| 127       | 13.3  | 11.7  | 17.5   |
| 129       | 10.1  | 9.3   | 13.9   |

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