

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111821\  
 Data File : VL038070.D  
 Acq On : 19 Nov 2021 1:41  
 Operator : SY/AP  
 Sample : M4704-04DL 10X  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA L  
 ClientSampleId :  
 TRANS-SHOPDL

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/25/2021  
 Supervised By :Mahesh Dadoda 11/29/2021

Quant Time: Nov 19 08:32:37 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111821A  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:  
 QLast Update : Thu Nov 18 13:16:09 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.67  | 49   | 802552   | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.17  | 114  | 2298237  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.08 | 117  | 1963488  | 10.00 | ppbv  | 0.00     |

## System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.41  | 95    | 1452107  | 10.25    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 102.50% |

## Target Compounds

|                        | R.T.  | QIon | Response | Conc   | Units  | Ovalue |
|------------------------|-------|------|----------|--------|--------|--------|
| 9) Propene             | 3.01  | 41   | 287775   | 4.636  | ppbv   | 98     |
| 13) Ethanol            | 3.62  | 45   | 39970m   | 6.664  | ppbv   |        |
| 15) Acetone            | 3.85  | 43   | 1195300  | 17.178 | ppbv   | 99     |
| 17) tert-Butyl alcohol | 4.33  | 59   | 13400m   | 0.159  | ppbv   |        |
| 19) Isopropyl Alcohol  | 3.99  | 45   | 13923m   | 0.277  | ppbv   |        |
| 20) Methylene Chloride | 4.35  | 84   | 46893    | 1.203  | ppbv   | 87     |
| 26) Hexane             | 5.68  | 57   | 44266    | 0.397  | ppbv # | 43     |
| 34) 2-Butanone         | 5.26  | 43   | 39495m   | 0.426  | ppbv   |        |
| 53) Toluene            | 9.80  | 91   | 68139    | 0.258  | ppbv   | 99     |
| 59) m/p-Xylene         | 12.96 | 91   | 31773m   | 0.116  | ppbv   |        |

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

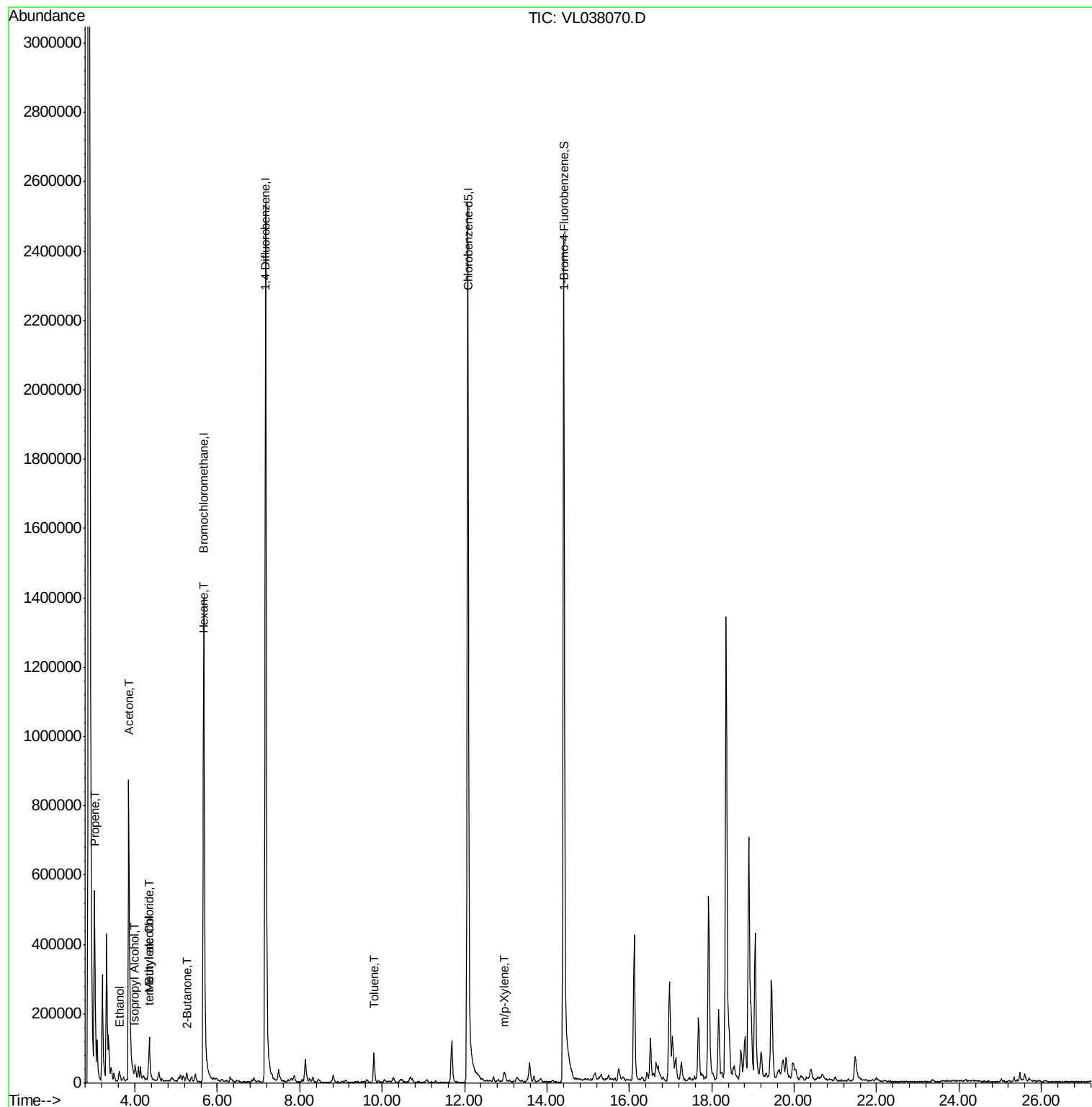
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Data File : VL038070.D  
Acq On : 19 Nov 2021 1:41  
Operator : SY/AP  
Sample : M4704-04DL 10X  
Misc : 400mL/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

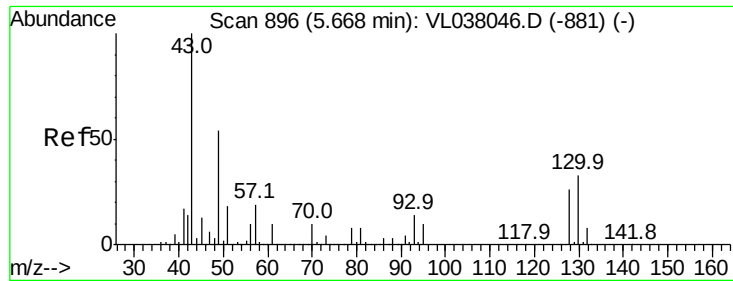
Instrument :  
MSVOA\_L  
ClientSampleId :  
TRANS-SHOPDL

Quant Time: Nov 19 08:32:37 2021  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL111821  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:  
QLast Update : Thu Nov 18 13:16:09 2021  
Response via : Initial Calibration

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67

Delta R.T. MSVOA\_L

Lab File: ClientSampleId :

Acq: 19 Nov 2021 1:41

Tot Ion:

Ion Ratio

49 100

128 50.

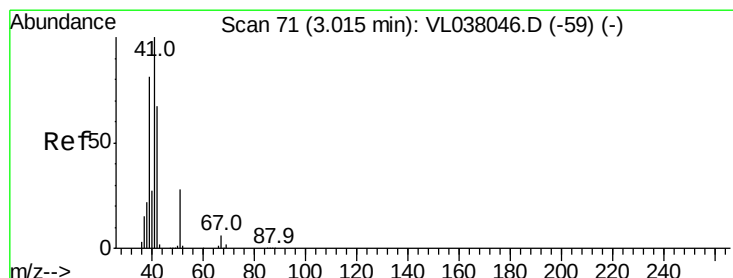
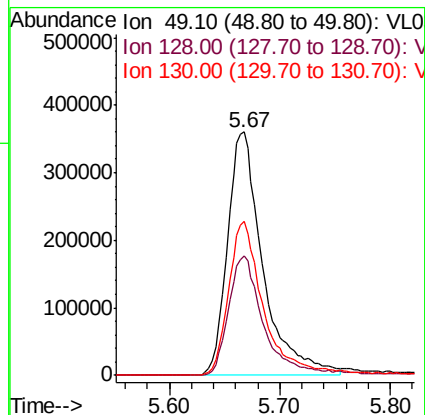
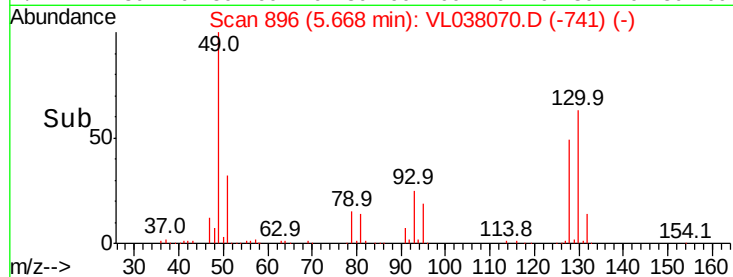
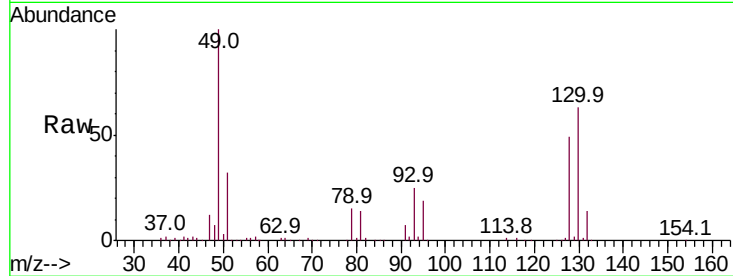
130 64.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/25/2021

Supervised By :Mahesh Dadoda 11/29/2021



#9

Propene

Concen: 4.636 ppbv

RT: 3.01 min Scan# 71

Delta R.T. -0.00 min

Lab File: VL038070.D

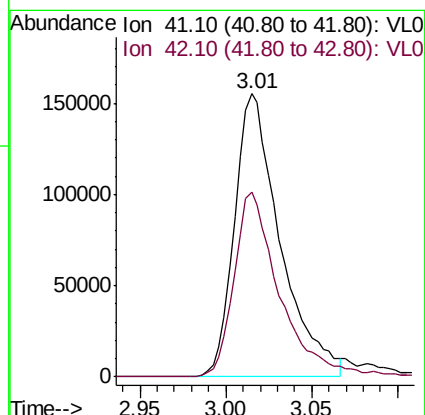
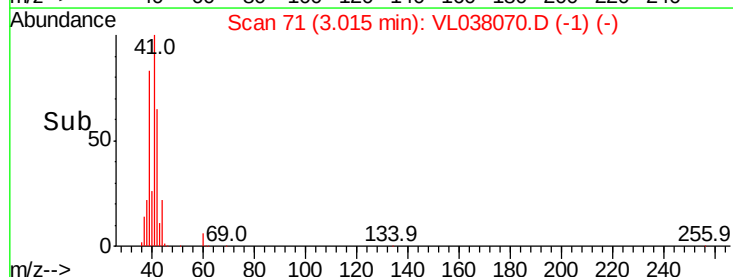
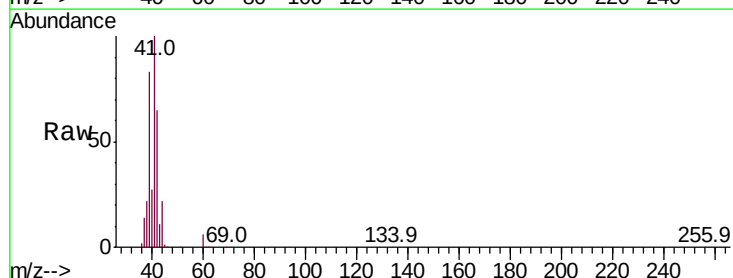
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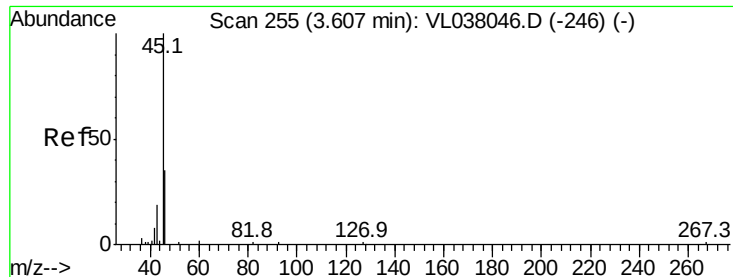
Tgt Ion: 41 Resp: 287775

Ion Ratio Lower Upper

41 100

42 66.0 53.8 80.8



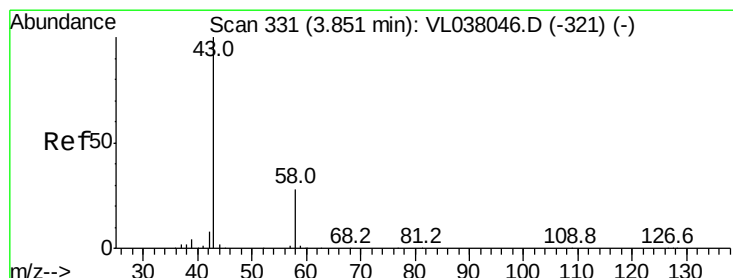
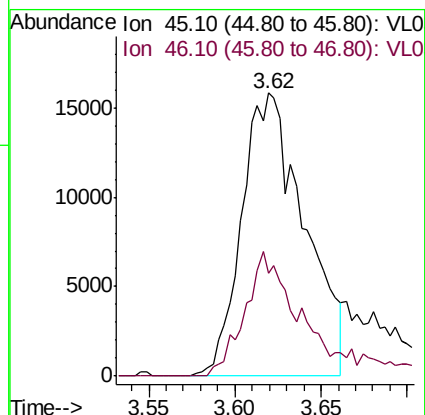
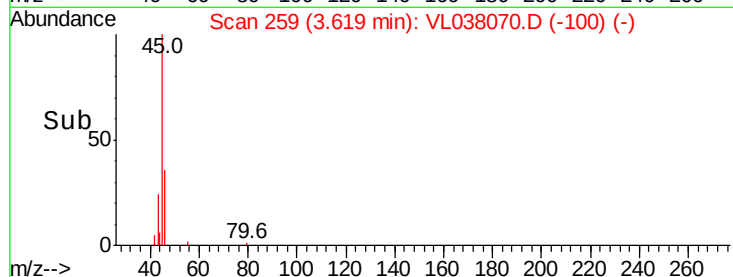
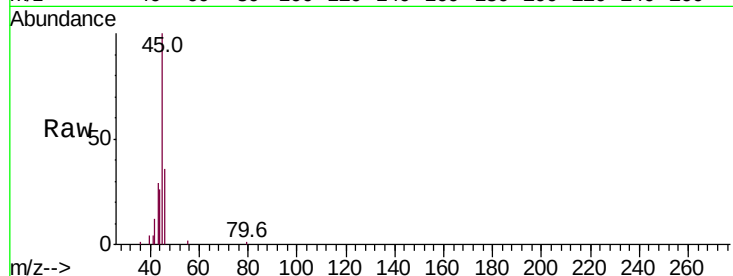


#13  
Ethanol  
Concen: 6.664 ppbv m  
RT: 3.62  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId :  
Acq: 19 Nov 2021 1:41

Tot Ion:  
Ion Ratio  
45 100  
46 0.

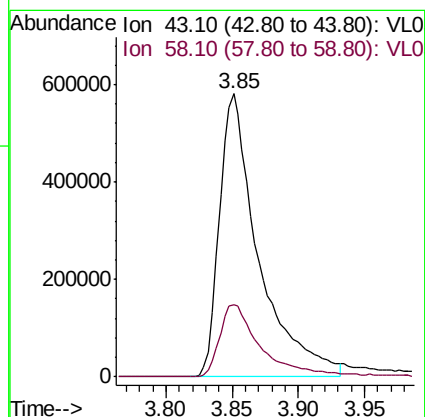
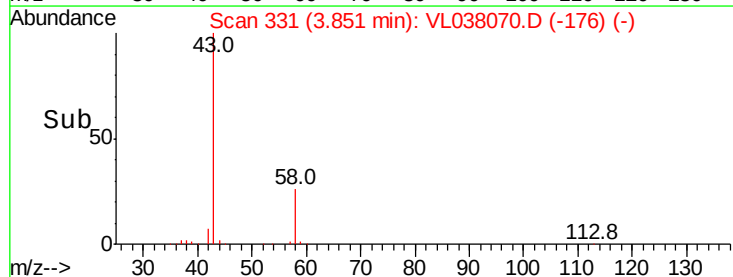
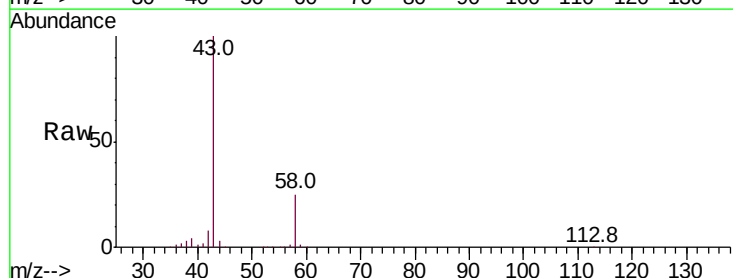
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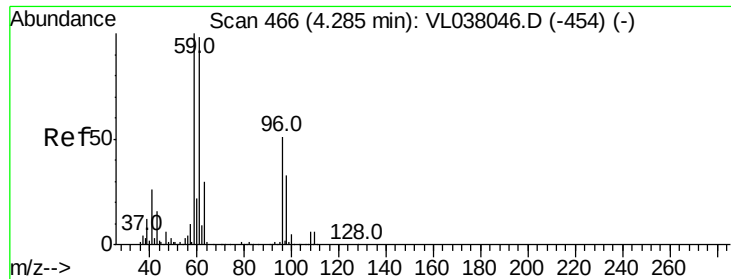
Reviewed By :Semsettin Yesilyurt 11/25/2021  
Supervised By :Mahesh Dadoda 11/29/2021



#15  
Acetone  
Concen: 17.178 ppbv  
RT: 3.85 min Scan# 331  
Delta R.T. -0.00 min  
Lab File: VL038070.D  
Acq: 19 Nov 2021 1:41

Tgt Ion: 43 Resp: 1195300  
Ion Ratio Lower Upper  
43 100  
58 28.3 22.4 33.6



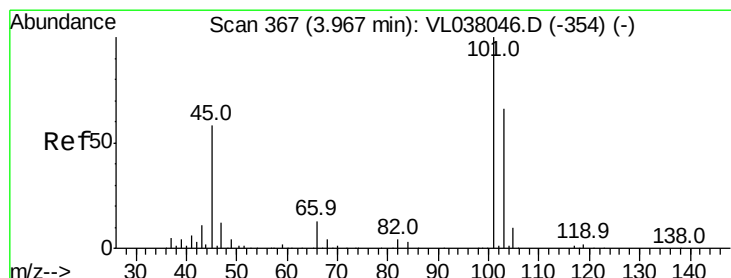
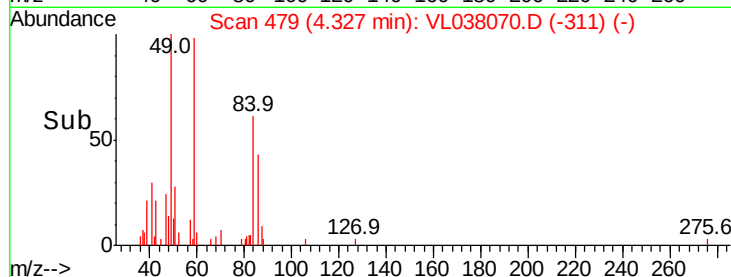
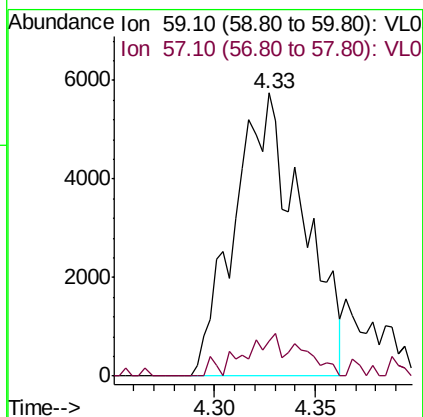
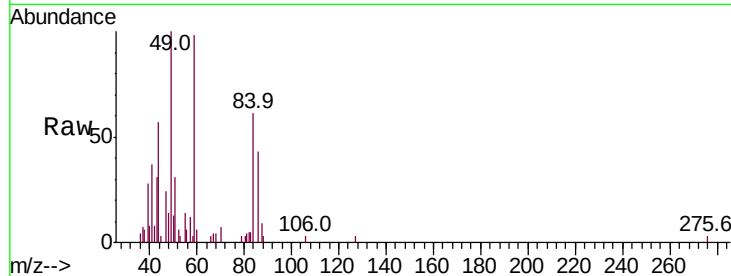


#17  
tert-Butyl alcohol  
Concen: 0.159 ppbv m  
RT: 4.33  
Instrument: MSVOA\_1  
Delta R.T.:  
Lab File: ClientSampleId:  
Acq: 19 Nov 2021 1:41  
TRANS-SHOPDL

Tot Ion:  
Ion Ratio  
59 100  
57 0.

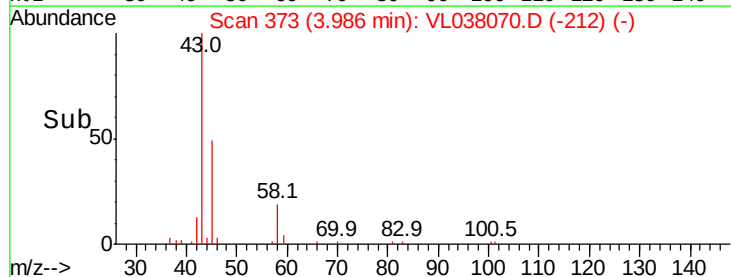
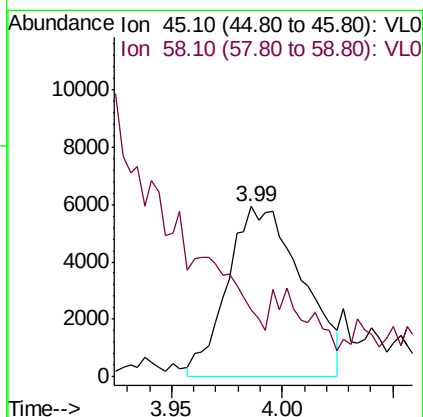
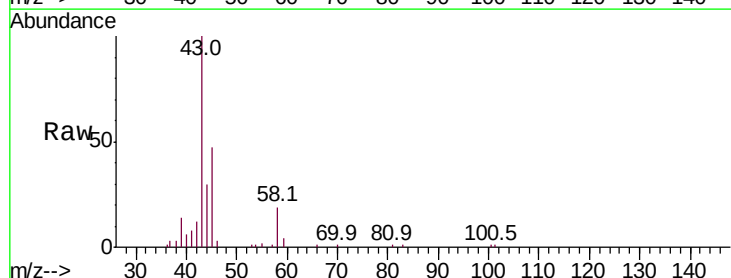
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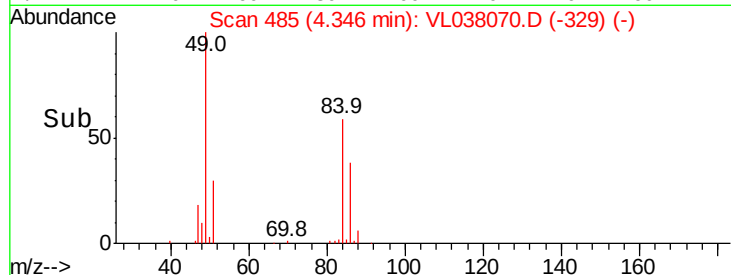
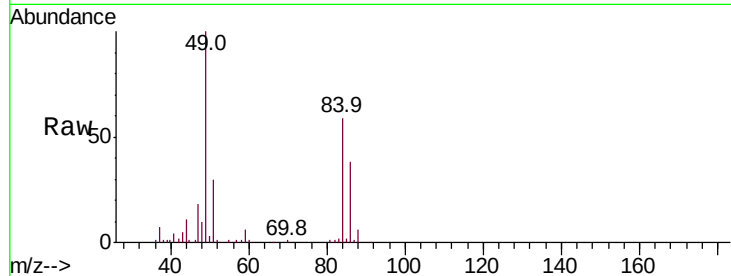
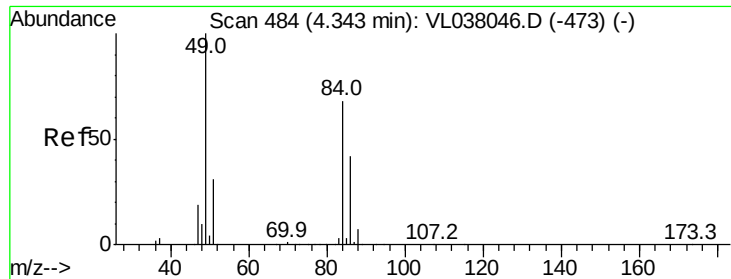
Reviewed By :Semsettin Yesilyurt 11/25/2021  
Supervised By :Mahesh Dadoda 11/29/2021



#19  
Isopropyl Alcohol  
Concen: 0.277 ppbv m  
RT: 3.99 min Scan# 373  
Delta R.T. 0.02 min  
Lab File: VL038070.D  
Acq: 19 Nov 2021 1:41

Tgt Ion: 45 Resp: 13923  
Ion Ratio Lower Upper  
45 100  
58 0.0 1.4 2.0#



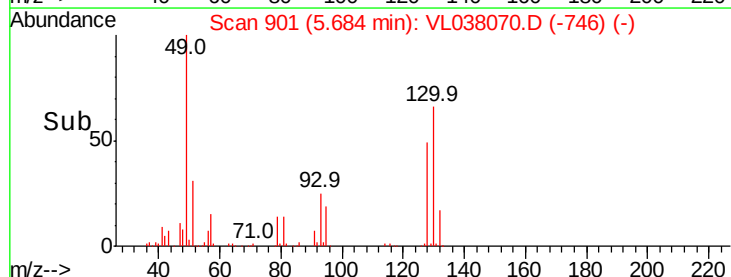
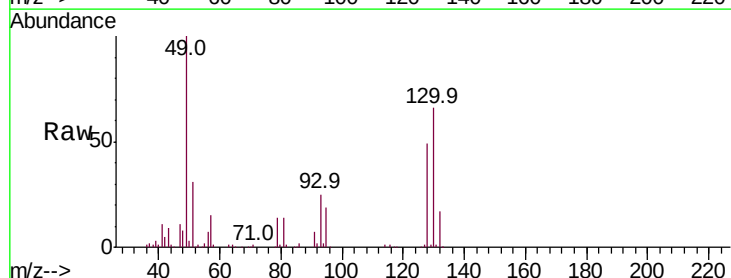
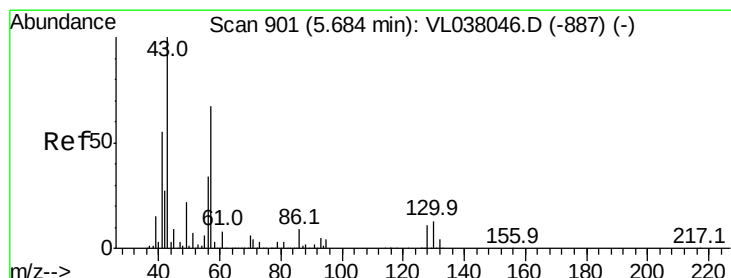
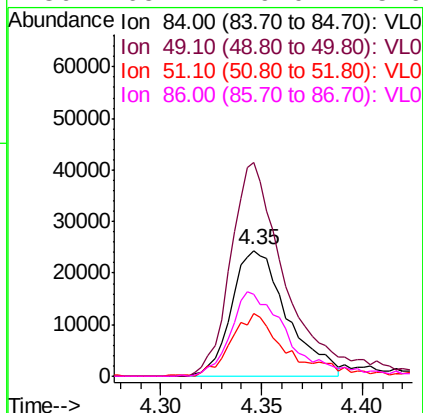


#20  
Methylene Chloride  
Concen: 1.203 ppbv  
RT: 4.35  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId :  
Acq: 19 Nov 2021 1:41  
TRANS-SHOPDL

Tot Ion:  
Ion Ratio  
84 100  
49 169.  
51 50.  
86 65.2 49.0 73.6

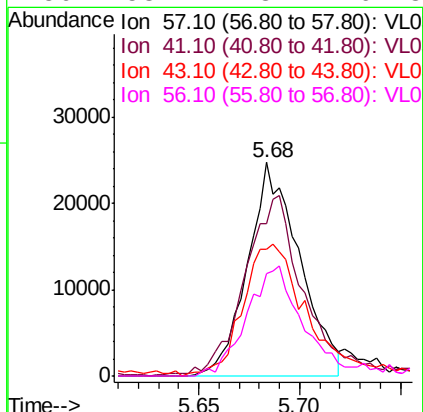
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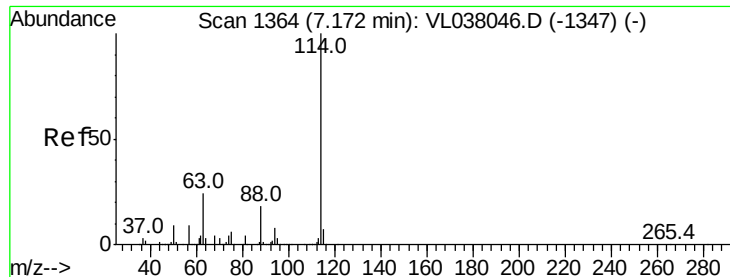
Reviewed By :Semsettin Yesilyurt 11/25/2021  
Supervised By :Mahesh Dadoda 11/29/2021



#26  
Hexane  
Concen: 0.397 ppbv  
RT: 5.68 min Scan# 901  
Delta R.T. -0.00 min  
Lab File: VL038070.D  
Acq: 19 Nov 2021 1:41

Tgt Ion: 57 Resp: 44266  
Ion Ratio Lower Upper  
57 100  
41 99.7 71.4 107.2  
43 76.8 174.6 261.8#  
56 58.4 43.2 64.8





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 Instrument: MSVOA\_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 19 Nov 2021 1:41

Tot Ion:1

Ion Rati

114 100

63 24.

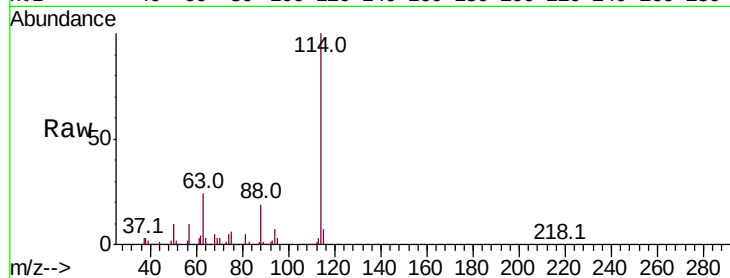
88 18.

Manual Integrations

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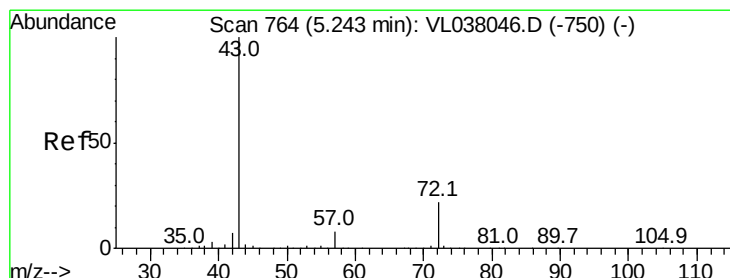
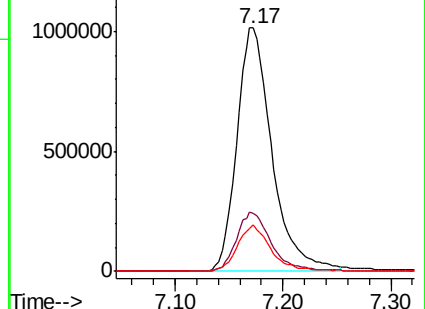
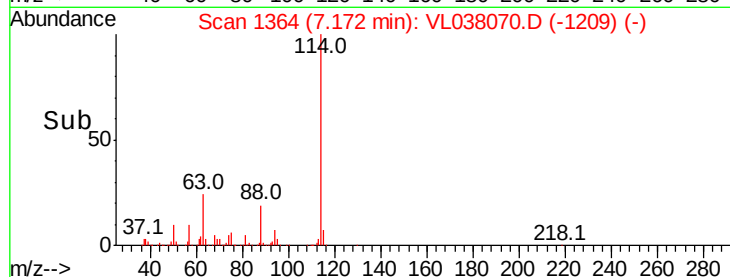
Supervised By :Mahesh Dadoda 11/29/2021



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.426 ppbv m

RT: 5.26 min Scan# 769

Delta R.T. 0.02 min

Lab File: VL038070.D

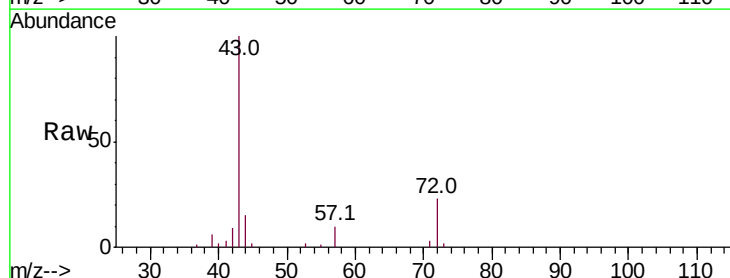
Acq: 19 Nov 2021 1:41

Tgt Ion: 43 Resp: 39495

Ion Ratio Lower Upper

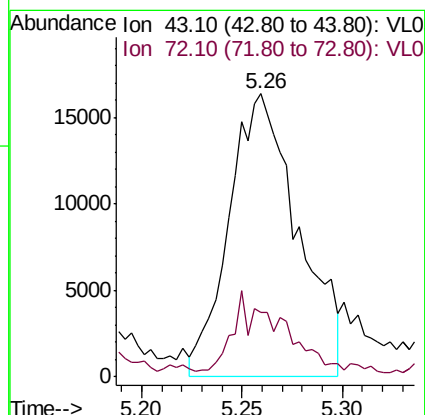
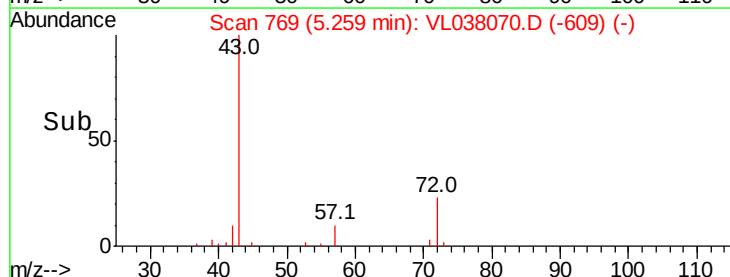
43 100

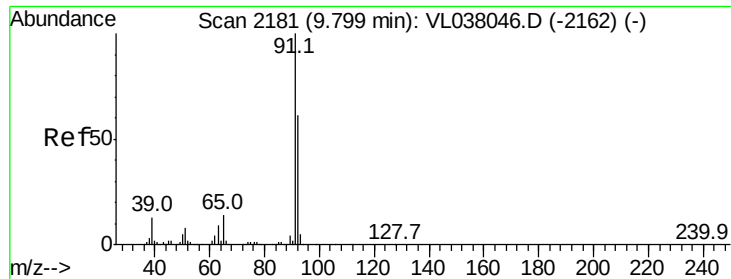
72 24.6 18.8 28.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#53

Toluene

Concen: 0.258 ppbv

RT: 9.80 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 19 Nov 2021 1:41 TRANS-SHOPDL

Tot Ion:

Ion Ratio

91 100

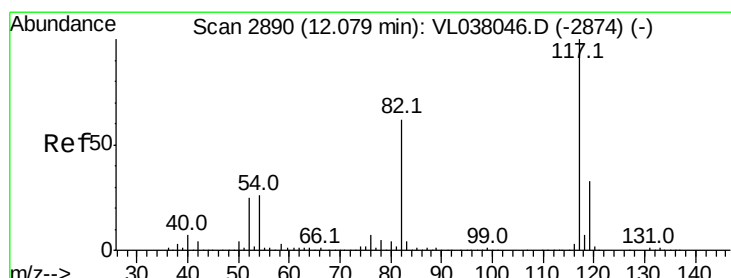
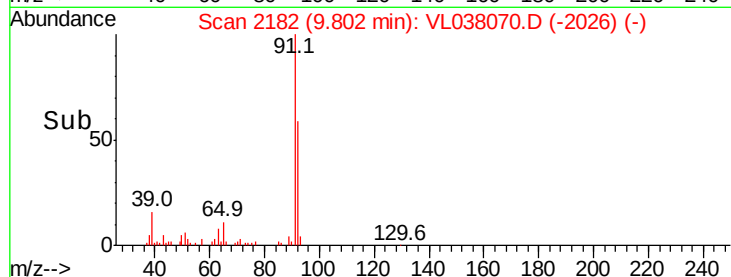
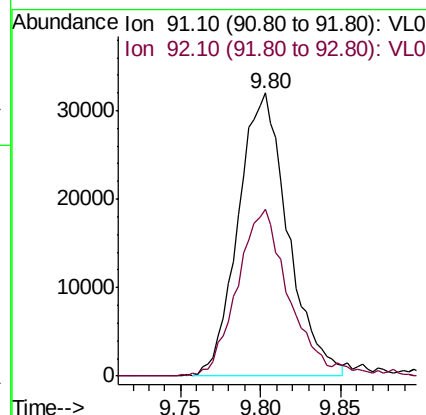
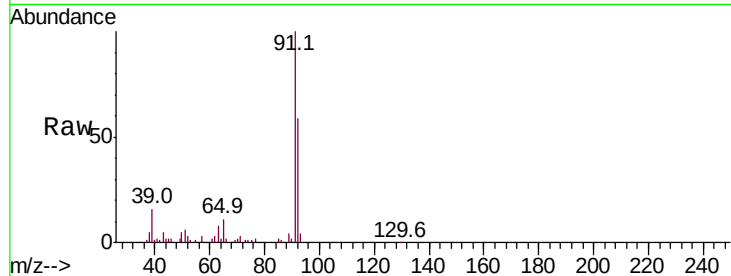
92 62.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/25/2021

Supervised By :Mahesh Dadoda 11/29/2021



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2890

Delta R.T. -0.00 min

Lab File: VL038070.D

Acq: 19 Nov 2021 1:41

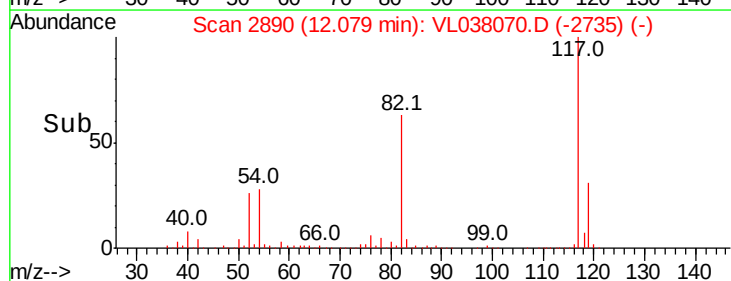
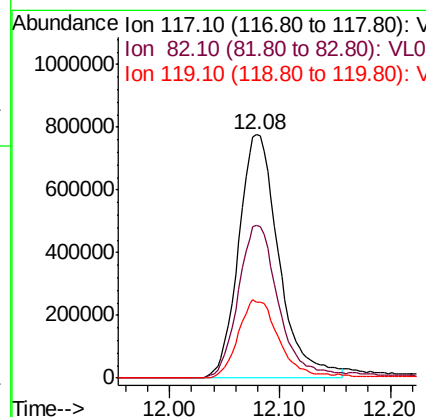
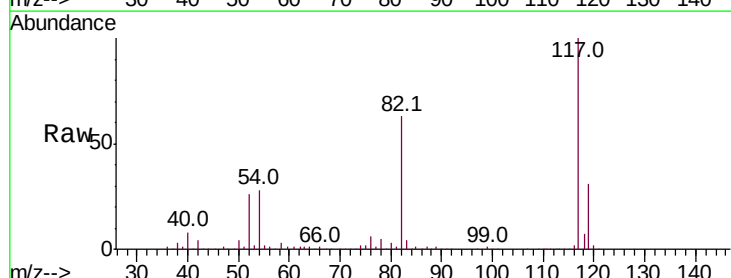
Tgt Ion:117 Resp: 1963488

Ion Ratio Lower Upper

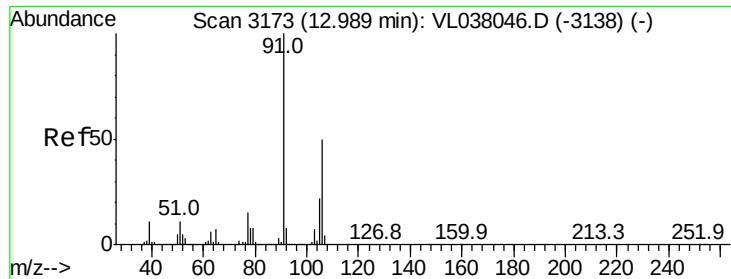
117 100

82 68.1 52.8 79.2

119 33.7 26.8 40.2







#59

m/p-Xylene

Concen: 0.116 ppbv m

RT: 12.96

Delta R.T. MSVOA\_L

Lab File: ClientSampleId :

Acq: 19 Nov 2021 1:41 TRANS-SHOPDL

Tot Ion:

Ion Ratio

91 100

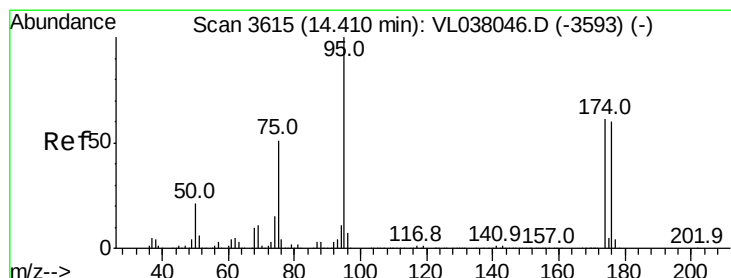
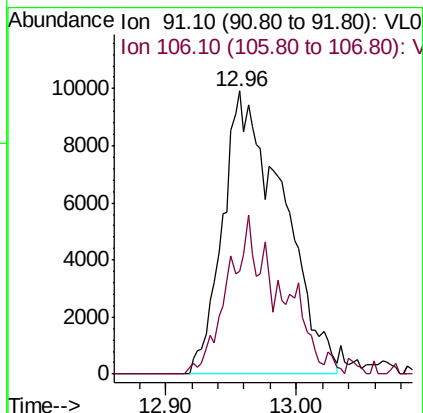
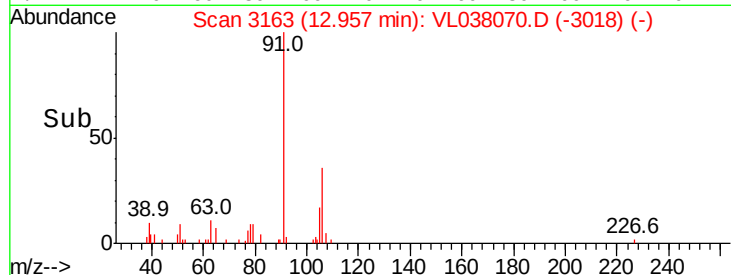
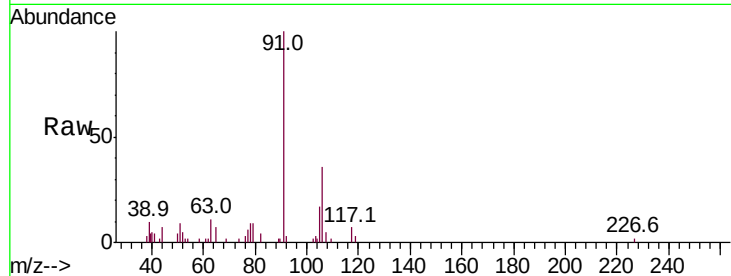
106 0.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/25/2021

Supervised By :Mahesh Dadoda 11/29/2021



#68

1-Bromo-4-Fluorobenzene

Concen: 10.253 ppbv

RT: 14.41 min Scan# 3614

Delta R.T. -0.00 min

Lab File: VL038070.D

Acq: 19 Nov 2021 1:41

Tgt Ion: 95 Resp: 1452107

Ion Ratio Lower Upper

95 100

174 66.3 53.1 79.7

175 4.3 4.0 6.0

