

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_L\DATA\VL032322\  
 Data File : VL038734.D  
 Acq On : 24 Mar 2022 3:09  
 Operator : SY/AP  
 Sample : N2050-01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 C0P87

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/24/2022  
 Supervised By : Mahesh Dadoda 03/28/2022

Quant Time: Mar 27 16:21:26 2022  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL032122A  
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument:  
 QLast Update : Mon Mar 21 17:09:26 2022  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.66  | 49   | 721720   | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.17  | 114  | 1917582  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.08 | 117  | 1764528  | 10.00 | ppbv  | 0.00     |

## System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.41  | 95    | 1242090  | 9.18     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 91.80% |

## Target Compounds

|                            |       |     |         |       |        | Qvalue |
|----------------------------|-------|-----|---------|-------|--------|--------|
| 2) Dichlorodifluoromethane | 3.05  | 85  | 28802   | 0.30  | ppbv   | 98     |
| 3) Chlorodifluoromethane   | 2.99  | 51  | 35358   | 0.46  | ppbv   | 92     |
| 4) Chloromethane           | 3.14  | 50  | 23349   | 0.56  | ppbv   | 95     |
| 9) Propene                 | 3.02  | 41  | 80210   | 2.18  | ppbv   | 94     |
| 11) Trichlorofluoromethane | 3.95  | 101 | 24630   | 0.29  | ppbv   | 93     |
| 13) Ethanol                | 3.61  | 45  | 123019m | 30.30 | ppbv   |        |
| 15) Acetone                | 3.85  | 43  | 1233378 | 19.81 | ppbv # | 88     |
| 17) tert-Butyl alcohol     | 4.29  | 59  | 43287   | 0.80  | ppbv   | 96     |
| 19) Isopropyl Alcohol      | 3.97  | 45  | 29997m  | 0.87  | ppbv   |        |
| 20) Methylene Chloride     | 4.35  | 84  | 11705   | 0.45  | ppbv   | 90     |
| 29) Chloroform             | 5.75  | 83  | 170277  | 1.52  | ppbv   | 97     |
| 34) 2-Butanone             | 5.24  | 43  | 1404533 | 18.51 | ppbv   | 97     |
| 35) Carbon Tetrachloride   | 7.02  | 117 | 7506m   | 0.07  | ppbv   |        |
| 36) Benzene                | 6.89  | 78  | 23116   | 0.16  | ppbv   | 98     |
| 51) 2-Hexanone             | 10.14 | 43  | 117873  | 1.16  | ppbv # | 100    |
| 52) Tetrachloroethene      | 11.22 | 164 | 932147  | 17.21 | ppbv   | 98     |
| 53) Toluene                | 9.80  | 91  | 51897   | 0.33  | ppbv   | 99     |

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

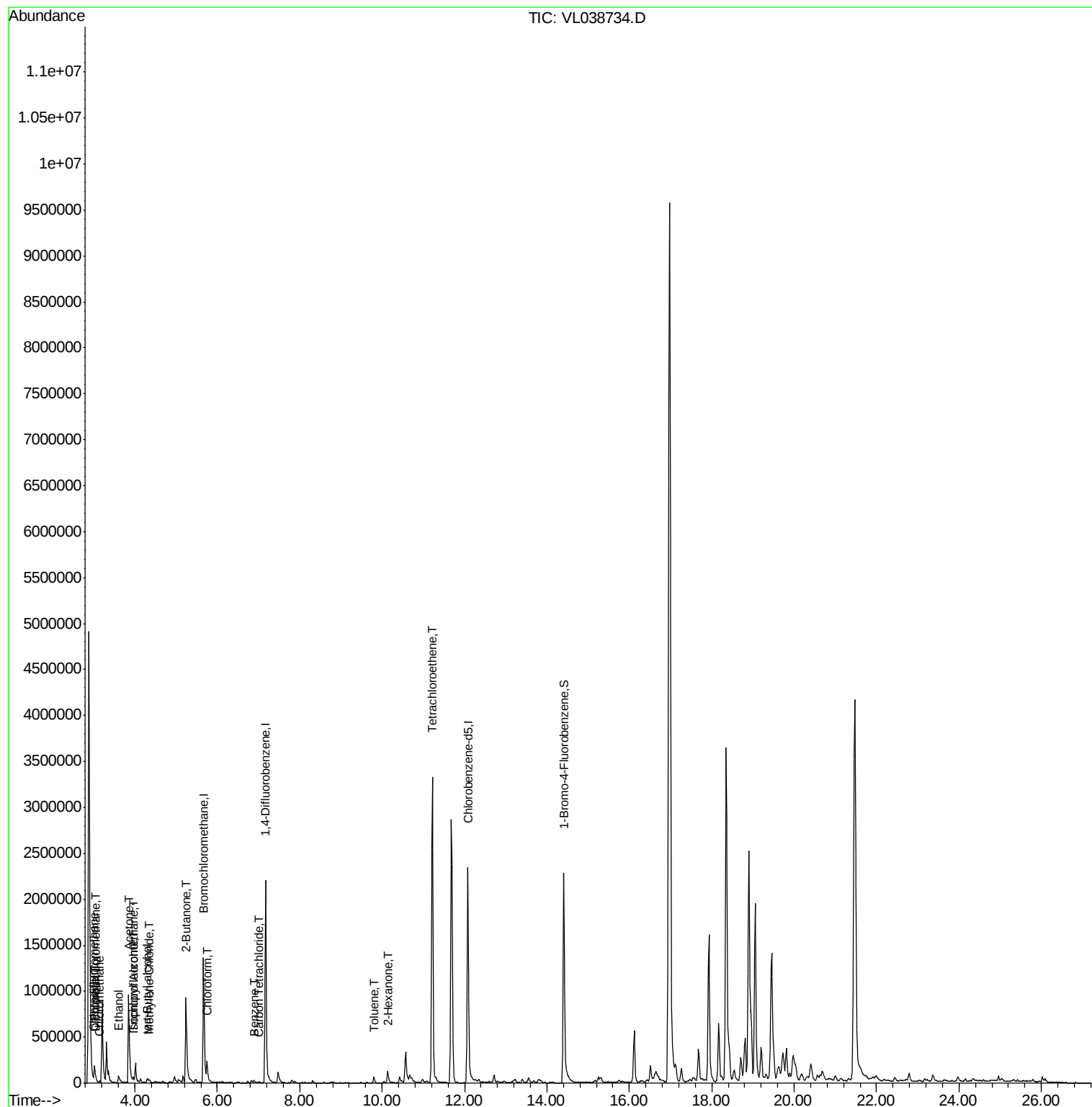
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_L\DATA\VL032322\  
Data File : VL038734.D  
Acq On : 24 Mar 2022 3:09  
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Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

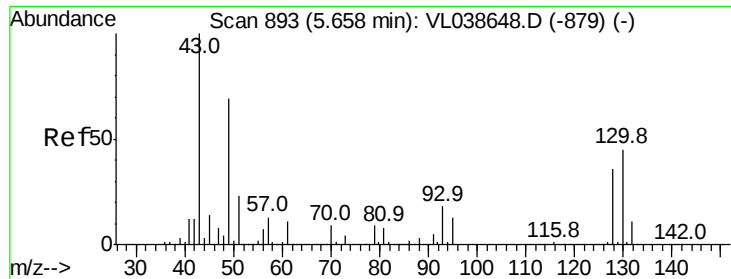
Instrument :  
MSVOA\_L  
ClientSampleId :  
C0P87

Quant Time: Mar 27 16:21:26 2022  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_L\METHODS\VL032122  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:  
QLast Update : Mon Mar 21 17:09:26 2022  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 03/24/2022  
Supervised By :Mahesh Dadoda 03/28/2022





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.66 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 24 Mar 2022 3:09

Tgt Ion:

Ion Ratio

49 100

128 55.

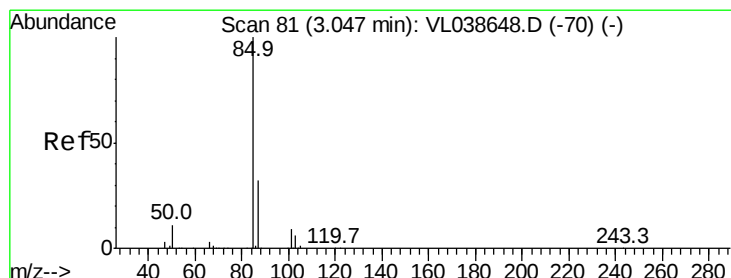
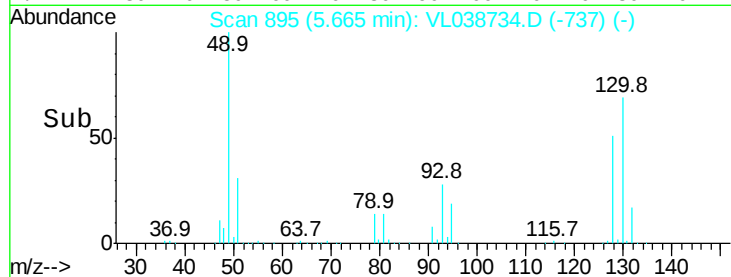
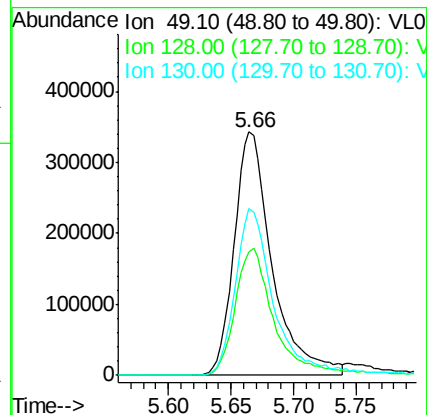
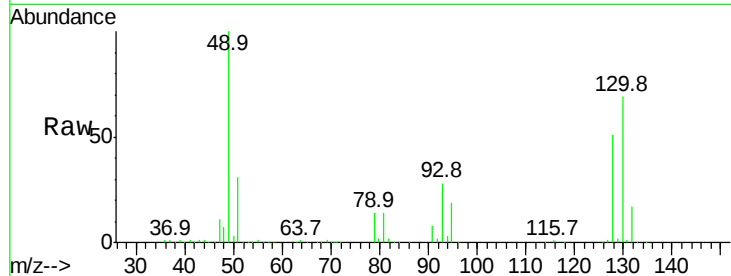
130 71.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/24/2022

Supervised By :Mahesh Dadoda 03/28/2022



#2

Dichlorodifluoromethane

Concen: 0.30 ppbv

RT: 3.05 min Scan# 83

Delta R.T. 0.01 min

Lab File: VL038734.D

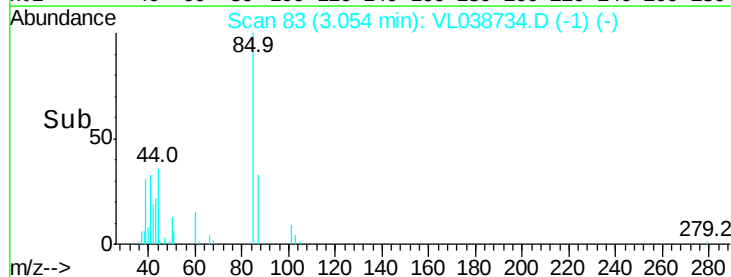
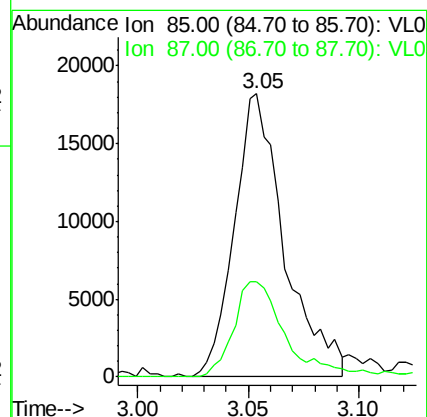
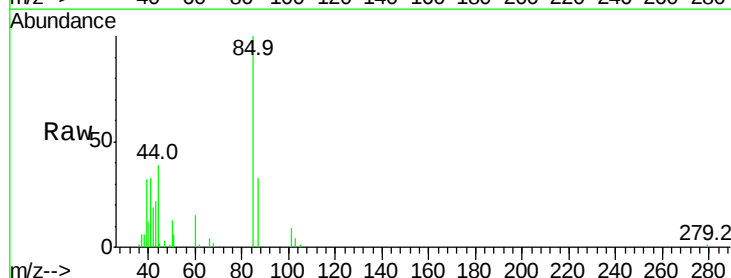
Acq: 24 Mar 2022 3:09

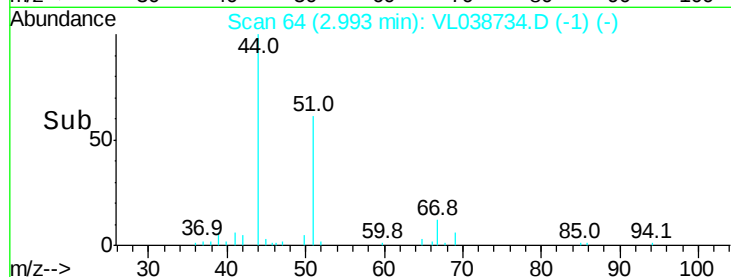
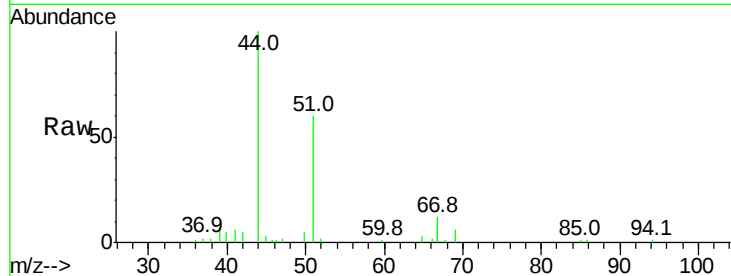
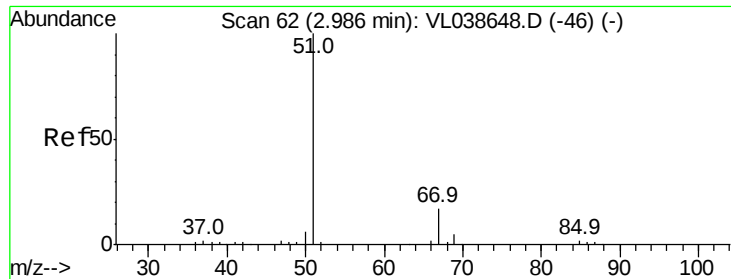
Tgt Ion: 85 Resp: 28802

Ion Ratio Lower Upper

85 100

87 33.4 26.0 39.0



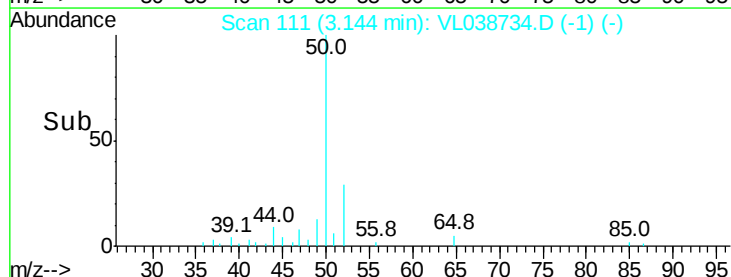
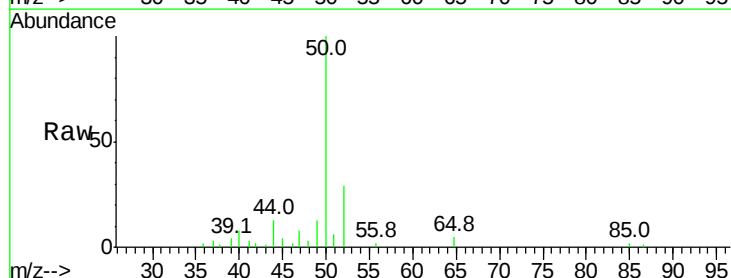
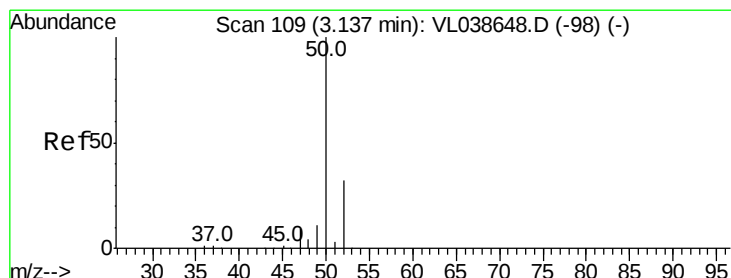
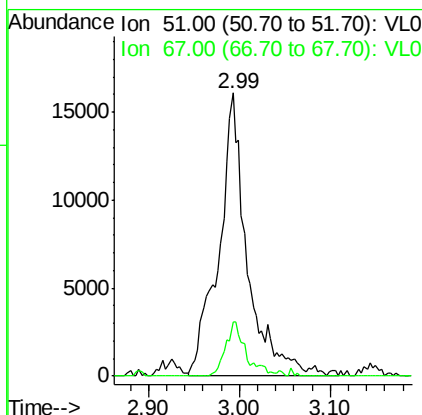


#3  
Chlorodifluoromethane  
Concen: 0.46 ppbv  
RT: 2.99  
Instrument: MSVOA\_L  
Delta R.T.:  
Lab File: ClientSampleId:  
Acq: 24 Mar 2022 3:09

Tgt Ion:  
Ion Ratio  
51 100  
67 14.

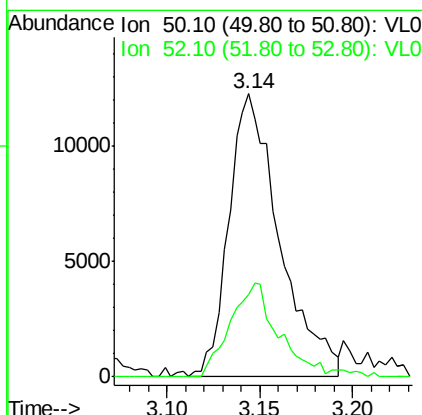
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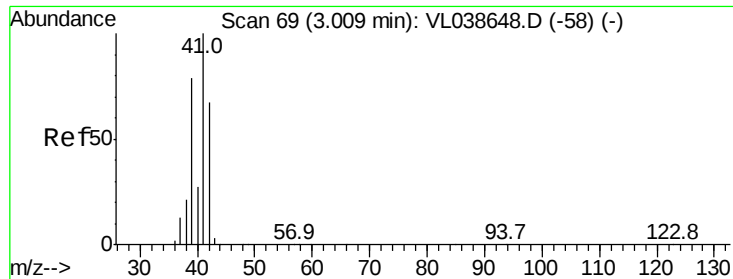
Reviewed By :Semsettin Yesilyurt 03/24/2022  
Supervised By :Mahesh Dadoda 03/28/2022



#4  
Chloromethane  
Concen: 0.56 ppbv  
RT: 3.14 min Scan# 111  
Delta R.T.: 0.01 min  
Lab File: VL038734.D  
Acq: 24 Mar 2022 3:09

Tgt Ion: 50 Resp: 23349  
Ion Ratio Lower Upper  
50 100  
52 29.2 25.5 38.3





#9

Propene

Concen: 2.18 ppbv

RT: 3.02 Instrument:

Delta R.T. MSVOA\_1

Lab File: ClientSampleId:

Acq: 24 Mar 2022 3:09 COP87

Tgt Ion:

Ion Ratio

41 100

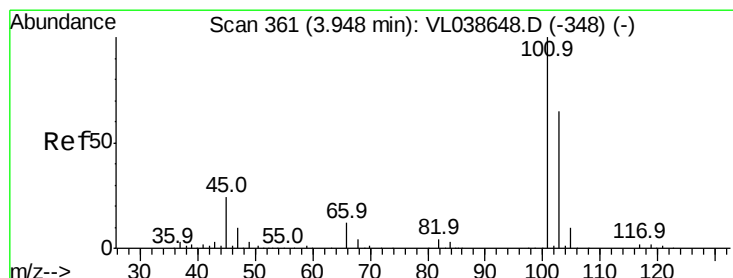
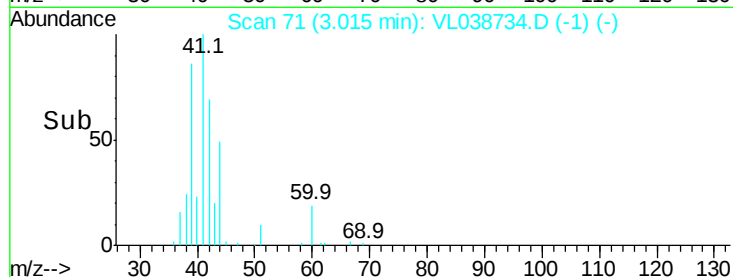
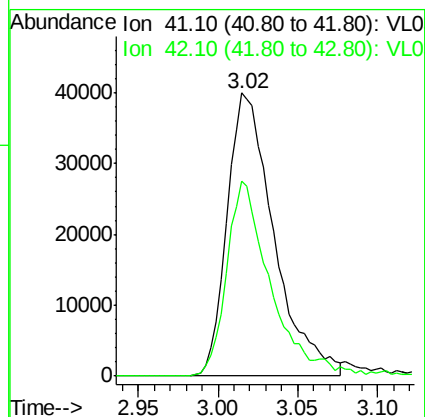
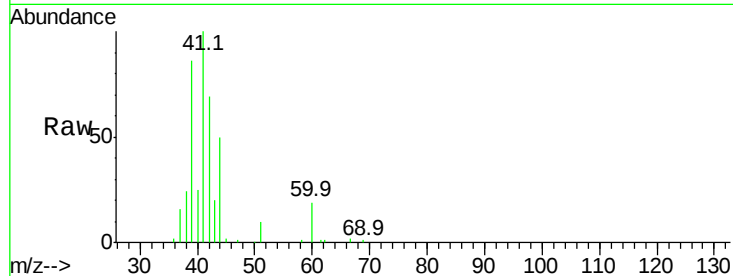
42 65.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/24/2022

Supervised By :Mahesh Dadoda 03/28/2022



#11

Trichlorofluoromethane

Concen: 0.29 ppbv

RT: 3.95 min Scan# 362

Delta R.T. 0.00 min

Lab File: VL038734.D

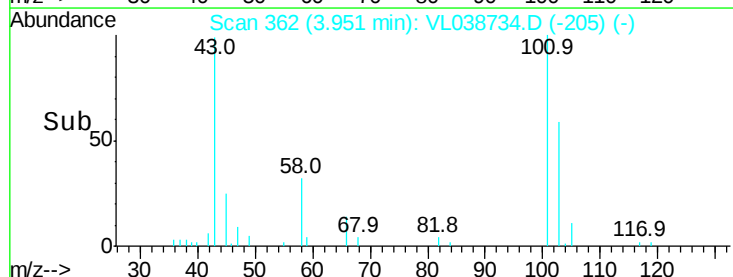
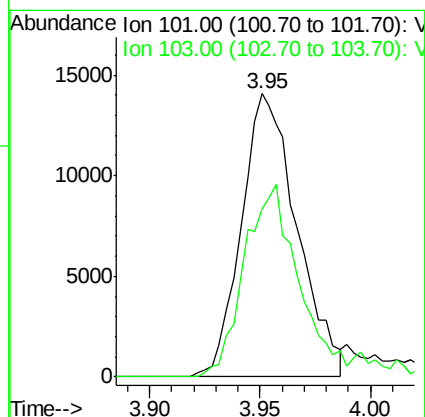
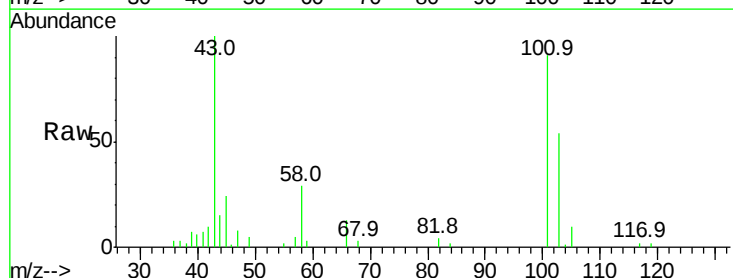
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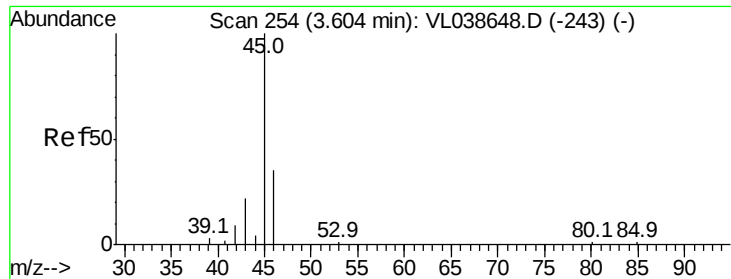
Tgt Ion:101 Resp: 24630

Ion Ratio Lower Upper

101 100

103 59.4 51.9 77.9



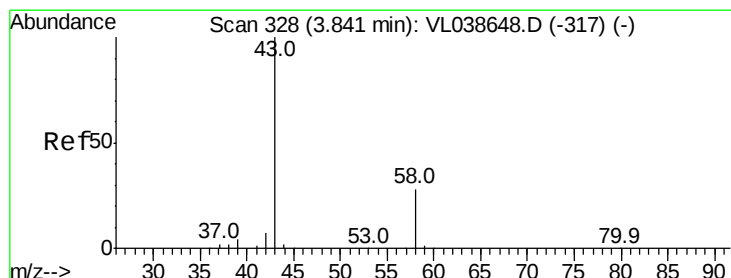
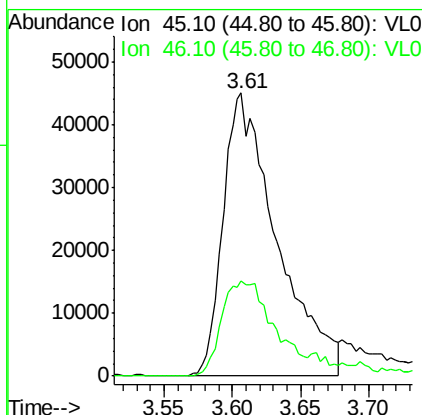
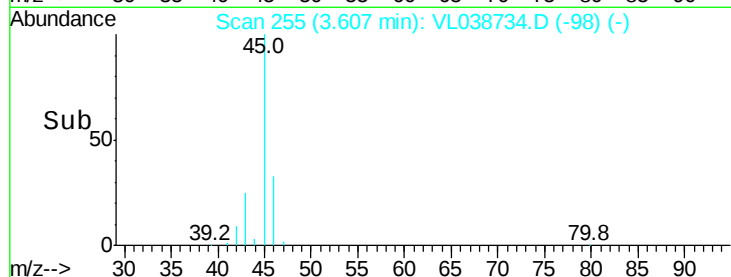
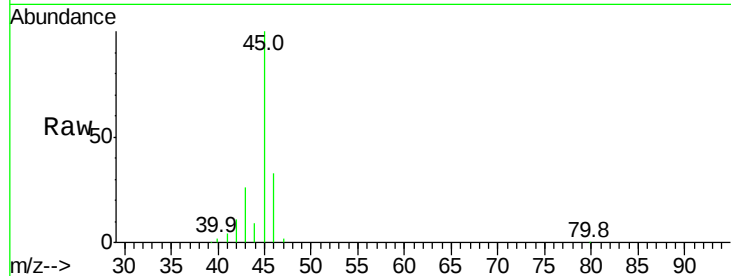


#13  
Ethanol  
Concen: 30.30 ppbv m  
RT: 3.61  
Instrument: MSVOA\_1  
Delta R.T.:  
Lab File: ClientSampleId :  
Acq: 24 Mar 2022 3:09

Tgt Ion:  
Ion Ratio  
45 100  
46 41.

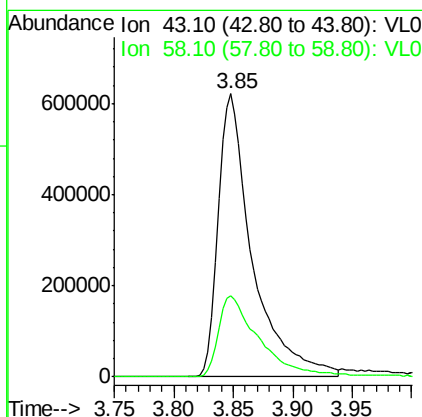
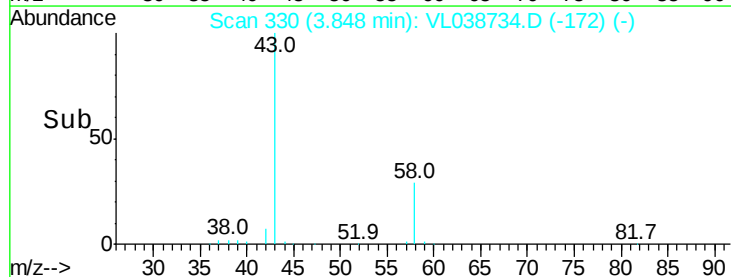
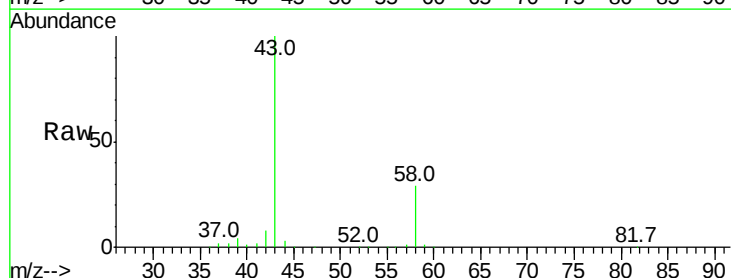
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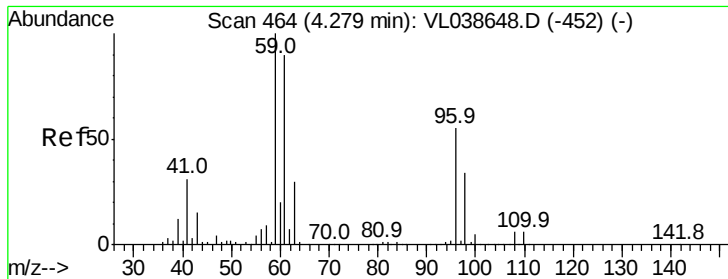
Reviewed By :Semsettin Yesilyurt 03/24/2022  
Supervised By :Mahesh Dadoda 03/28/2022



#15  
Acetone  
Concen: 19.81 ppbv  
RT: 3.85 min Scan# 330  
Delta R.T. 0.01 min  
Lab File: VL038734.D  
Acq: 24 Mar 2022 3:09

Tgt Ion: 43 Resp: 1233378  
Ion Ratio Lower Upper  
43 100  
58 35.6 23.3 34.9#



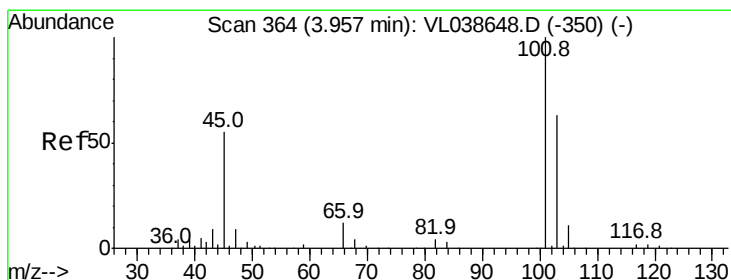
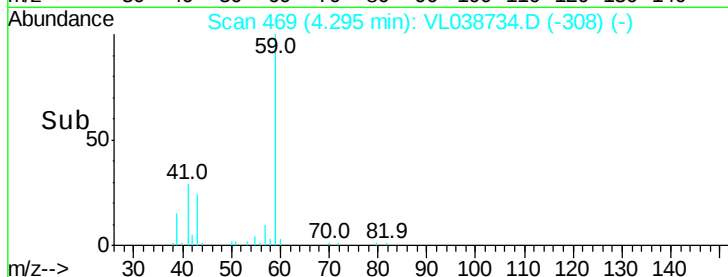
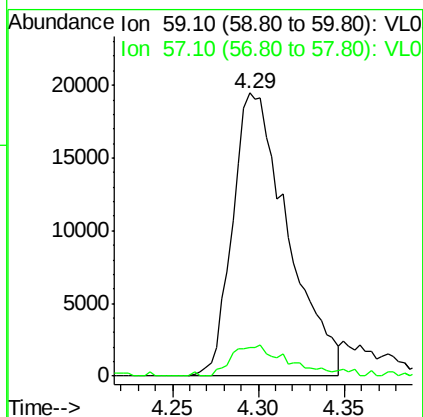
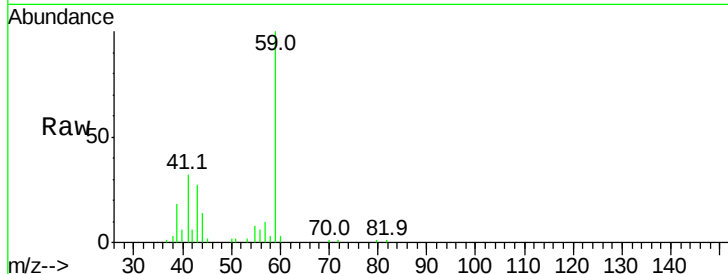


#17  
 tert-Butyl alcohol  
 Concen: 0.80 ppbv  
 RT: 4.29  
 Instrument: MSVOA\_1  
 Delta R.T.:  
 Lab File: ClientSampleId :  
 C0P87  
 Acq: 24 Mar 2022 3:09

Tgt Ion:  
 Ion Ratio  
 59 100  
 57 11.

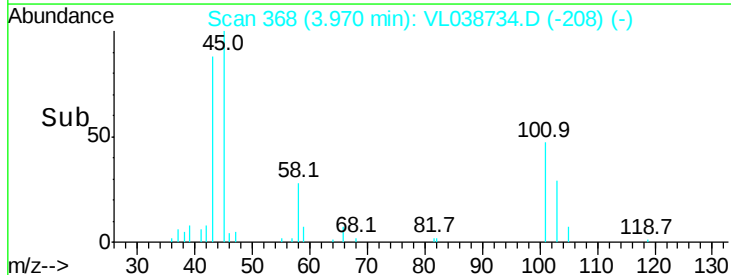
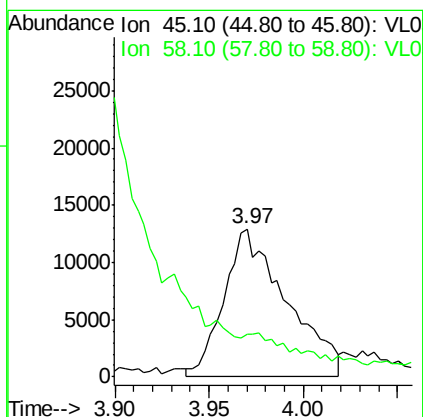
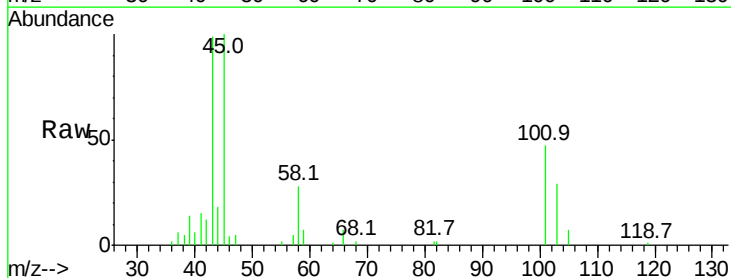
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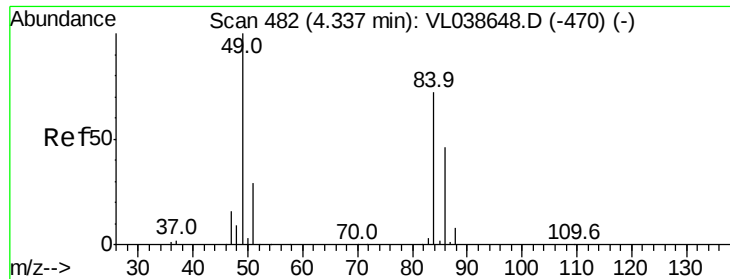
Reviewed By :Semsettin Yesilyurt 03/24/2022  
 Supervised By :Mahesh Dadoda 03/28/2022



#19  
 Isopropyl Alcohol  
 Concen: 0.87 ppbv m  
 RT: 3.97 min Scan# 368  
 Delta R.T. 0.01 min  
 Lab File: VL038734.D  
 Acq: 24 Mar 2022 3:09

Tgt Ion: 45 Resp: 29997  
 Ion Ratio Lower Upper  
 45 100  
 58 0.0 2.3 3.5#



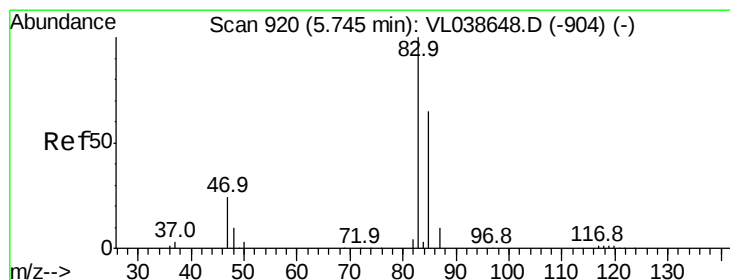
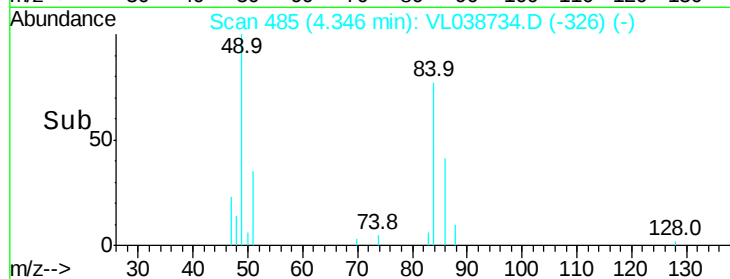
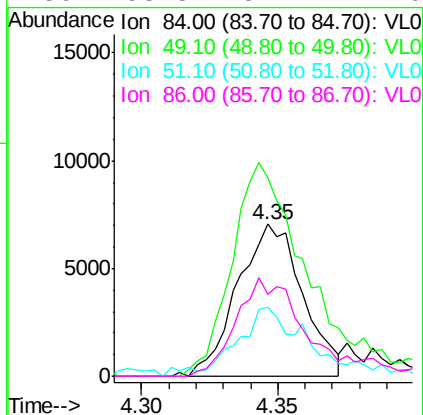
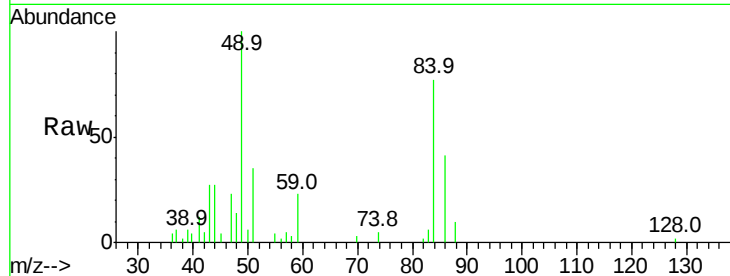


#20  
Methylene Chloride  
Concen: 0.45 ppbv  
RT: 4.35  
Instrument: MSVOA\_L  
Delta R.T.:  
Lab File: ClientSampleId :  
Acq: 24 Mar 2022 3:09

Tgt Ion:  
Ion Ratio  
84 100  
49 126.  
51 39.  
86 53.8 51.4 77.0

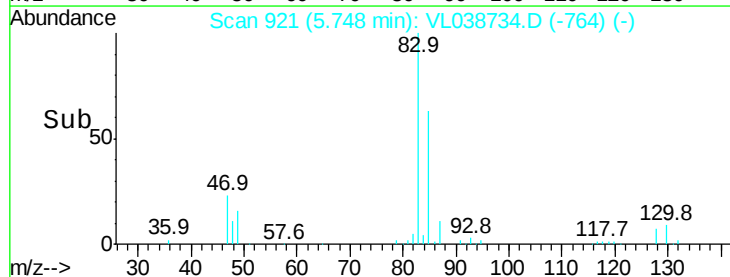
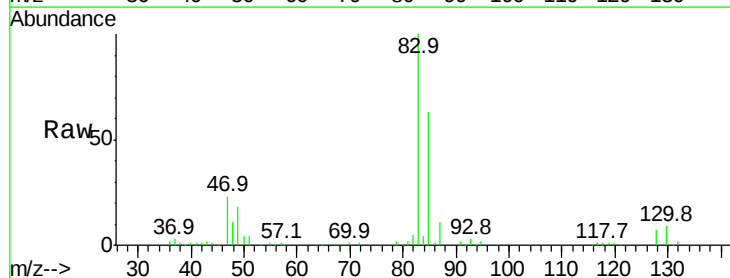
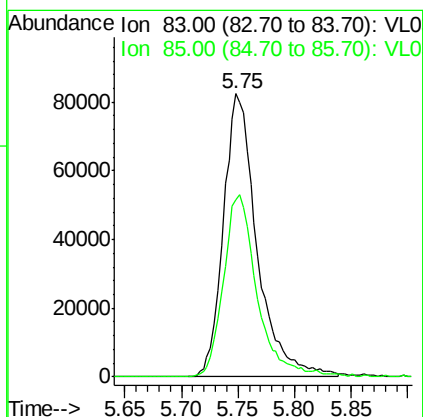
Manual Integrations  
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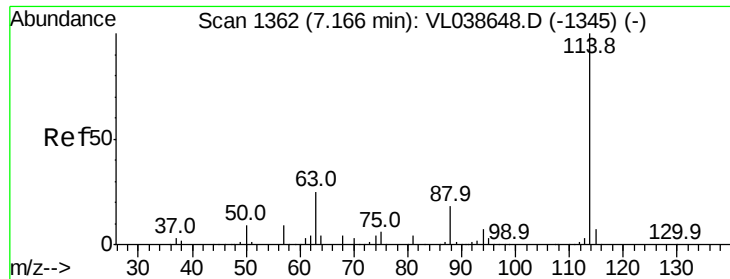
Reviewed By :Semsettin Yesilyurt 03/24/2022  
Supervised By :Mahesh Dadoda 03/28/2022



#29  
Chloroform  
Concen: 1.52 ppbv  
RT: 5.75 min Scan# 921  
Delta R.T. 0.00 min  
Lab File: VL038734.D  
Acq: 24 Mar 2022 3:09

Tgt Ion: 83 Resp: 170277  
Ion Ratio Lower Upper  
83 100  
85 62.6 51.7 77.5



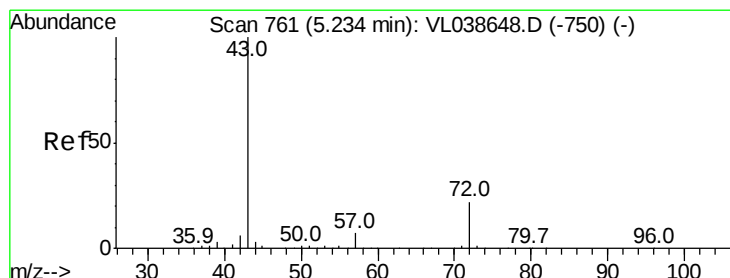
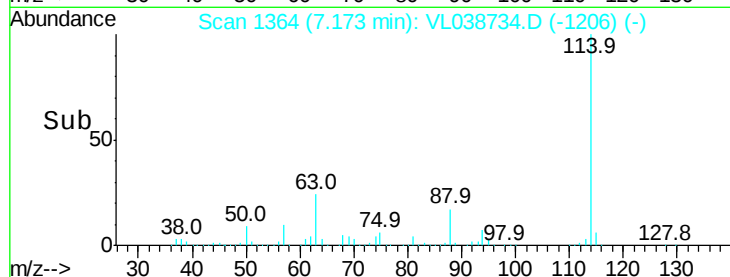
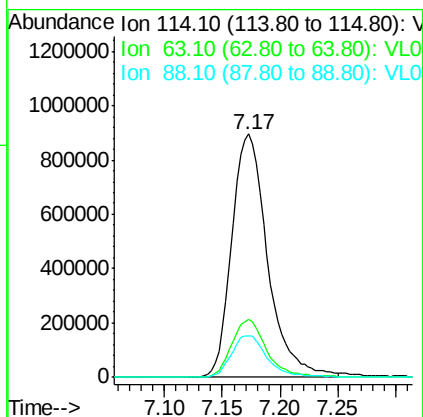
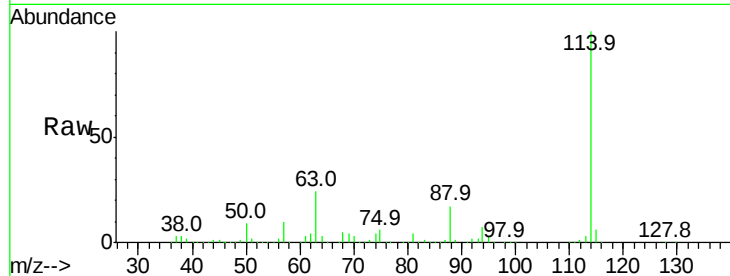


#33  
 1,4-Difluorobenzene  
 Concen: 10.00 ppbv  
 RT: 7.17  
 Instrument: MSVOA\_1  
 Delta R.T.:  
 Lab File: ClientSampleId:  
 Acq: 24 Mar 2022 3:09

Tgt Ion: 1  
 Ion Ratio  
 114 100  
 63 23.  
 88 17.

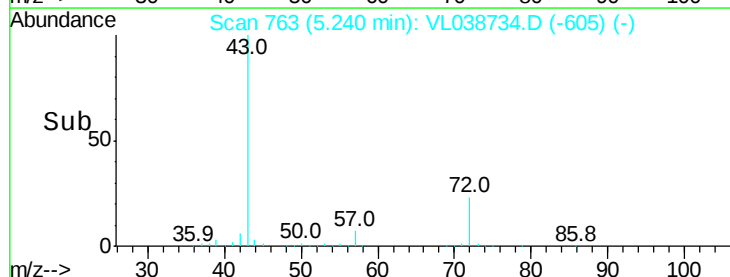
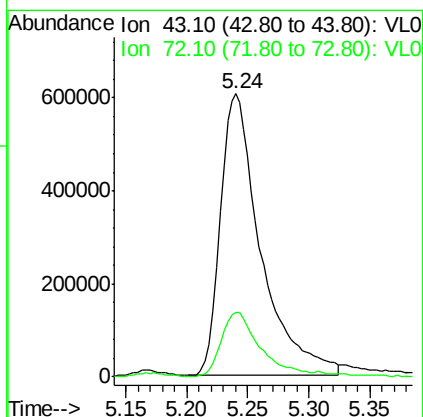
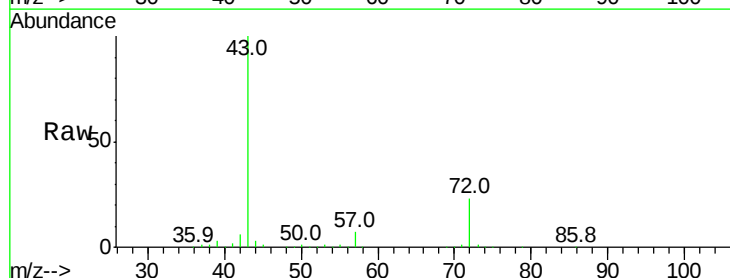
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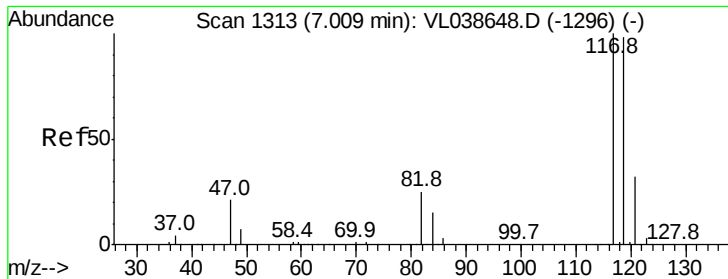
Reviewed By : Semsettin Yesilyurt 03/24/2022  
 Supervised By : Mahesh Dadoda 03/28/2022



#34  
 2-Butanone  
 Concen: 18.51 ppbv  
 RT: 5.24 min Scan# 763  
 Delta R.T. 0.01 min  
 Lab File: VL038734.D  
 Acq: 24 Mar 2022 3:09

Tgt Ion: 43 Resp: 1404533  
 Ion Ratio Lower Upper  
 43 100  
 72 23.6 17.8 26.8





#35

Carbon Tetrachloride

Concen: 0.07 ppbv m

RT: 7.02 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 24 Mar 2022 3:09

Tgt Ion:1

Ion Rati

117 100

119 84.

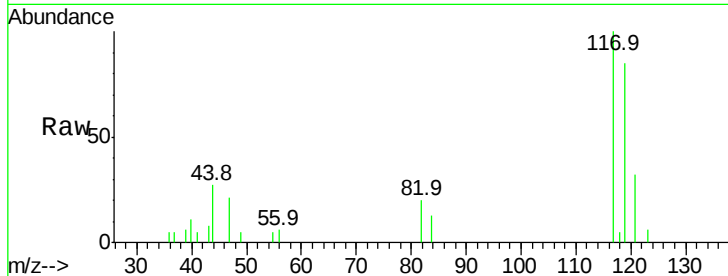
121 31.

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Reviewed By :Semsettin Yesilyurt 03/24/2022

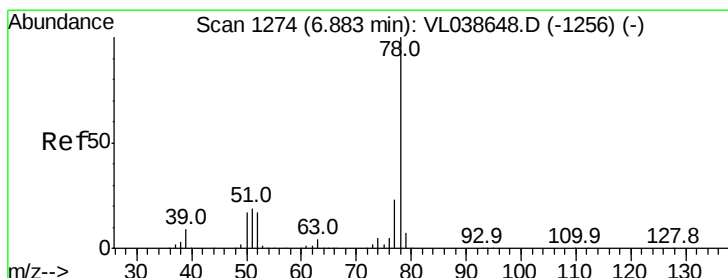
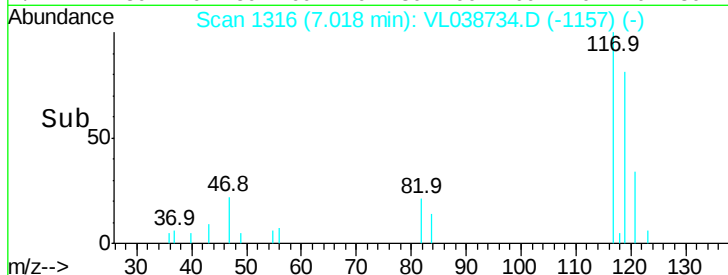
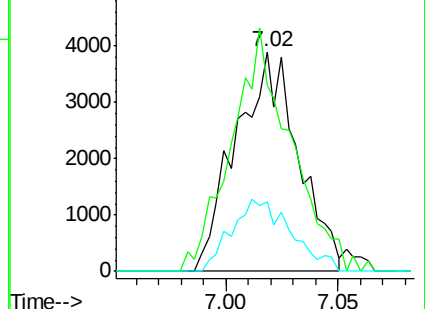
Supervised By :Mahesh Dadoda 03/28/2022



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.16 ppbv

RT: 6.89 min Scan# 1275

Delta R.T. 0.00 min

Lab File: VL038734.D

Acq: 24 Mar 2022 3:09

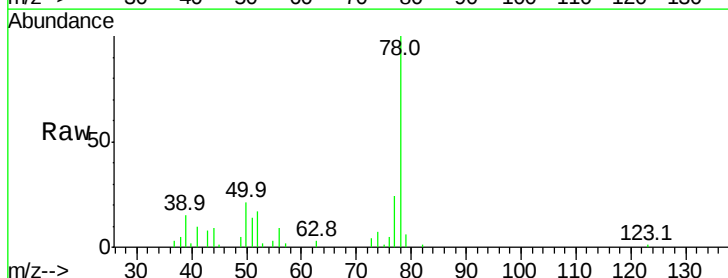
Tgt Ion: 78 Resp: 23116

Ion Ratio Lower Upper

78 100

77 23.0 18.1 27.1

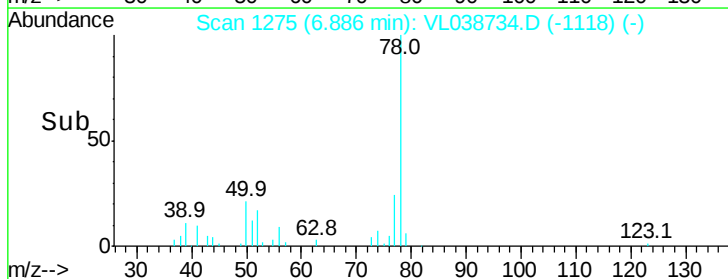
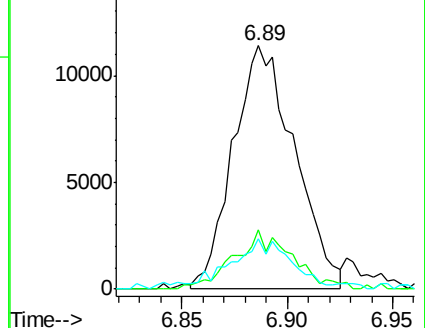
50 19.0 13.6 20.4

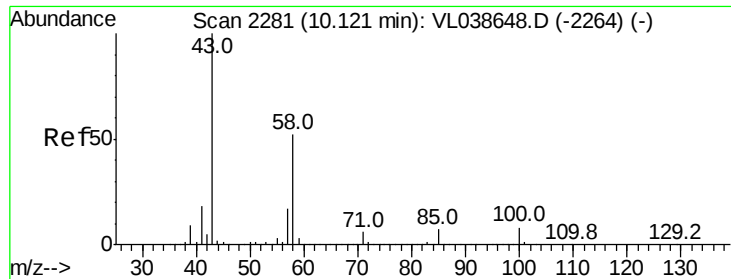


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0



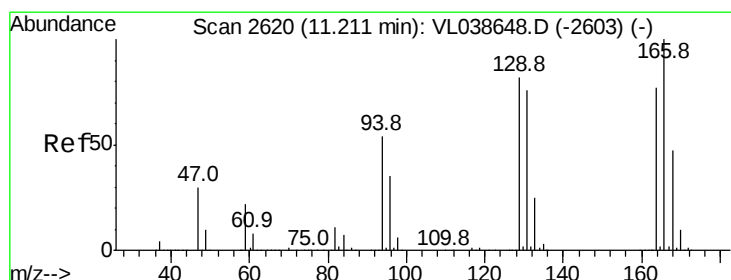
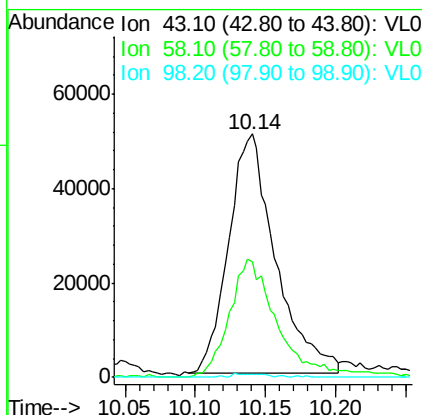
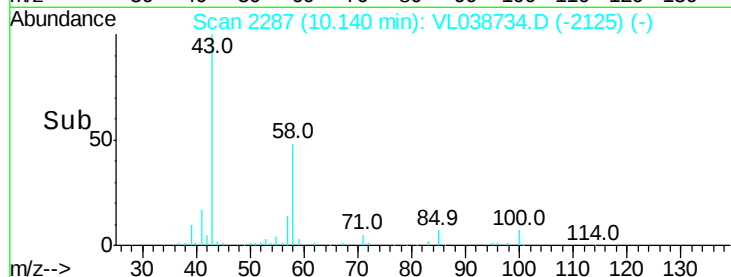
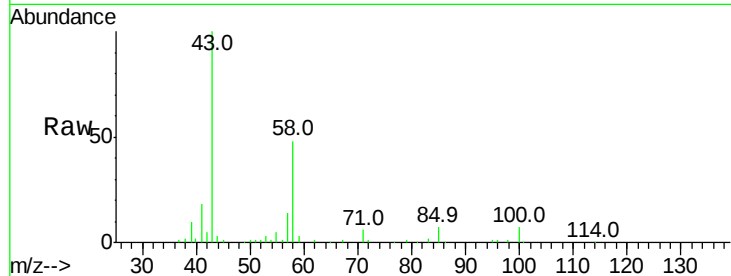


#51  
2-Hexanone  
Concen: 1.16 ppbv  
RT: 10.14 min  
Instrument: MSVOA\_L  
Delta R.T.:  
Lab File: ClientSampleId:  
Acq: 24 Mar 2022 3:09

Tgt Ion:  
Ion Ratio  
43 100  
58 51.  
98 1.

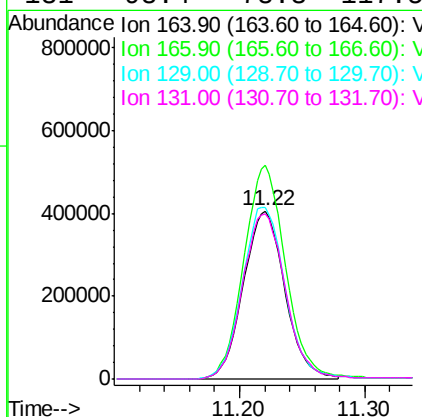
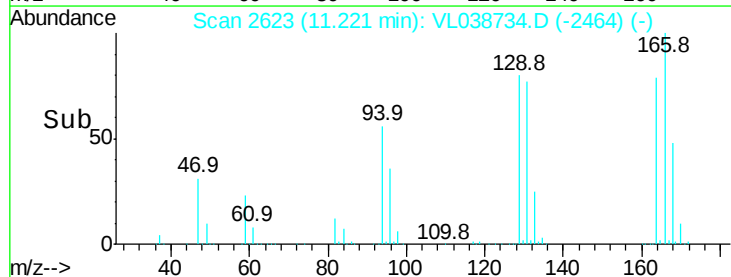
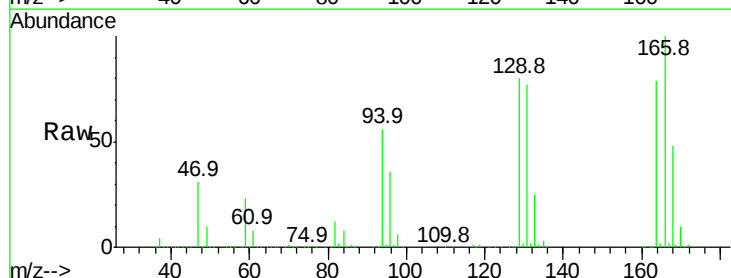
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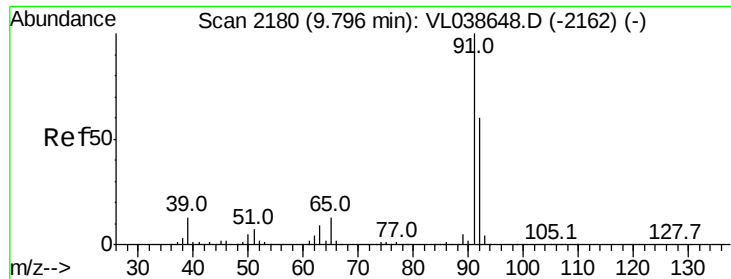
Reviewed By :Semsettin Yesilyurt 03/24/2022  
Supervised By :Mahesh Dadoda 03/28/2022



#52  
Tetrachloroethene  
Concen: 17.21 ppbv  
RT: 11.22 min Scan# 2623  
Delta R.T.: 0.01 min  
Lab File: VL038734.D  
Acq: 24 Mar 2022 3:09

Tgt Ion:164 Resp: 932147  
Ion Ratio Lower Upper  
164 100  
166 127.0 103.3 154.9  
129 101.9 85.2 127.8  
131 98.4 78.3 117.5





#53

Toluene

Concen: 0.33 ppbv

RT: 9.80

Delta R.T. MSVOA\_L

Lab File: ClientSampleId :

Acq: 24 Mar 2022 3:09

Tgt Ion:

Ion Ratio

91 100

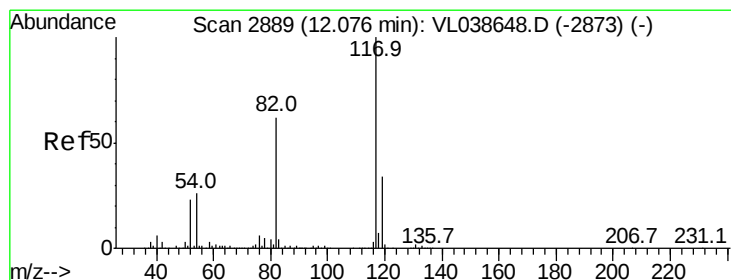
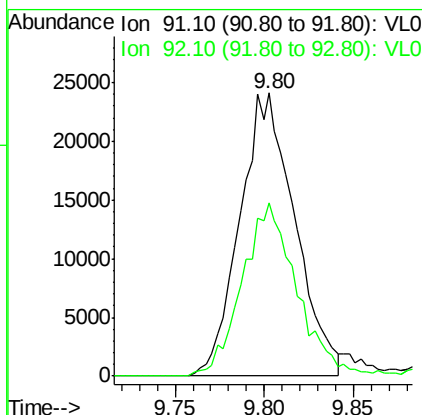
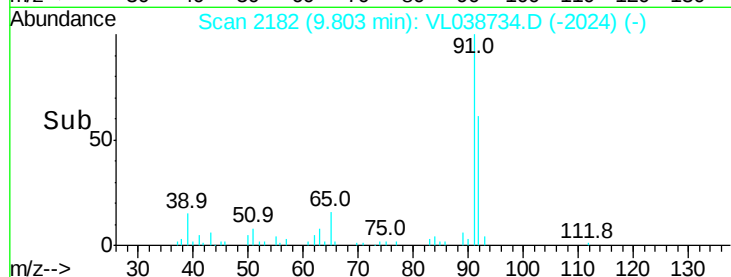
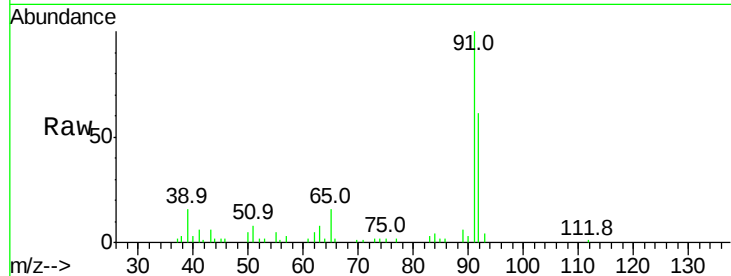
92 61.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/24/2022

Supervised By :Mahesh Dadoda 03/28/2022



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.08 min Scan# 2890

Delta R.T. 0.00 min

Lab File: VL038734.D

Acq: 24 Mar 2022 3:09

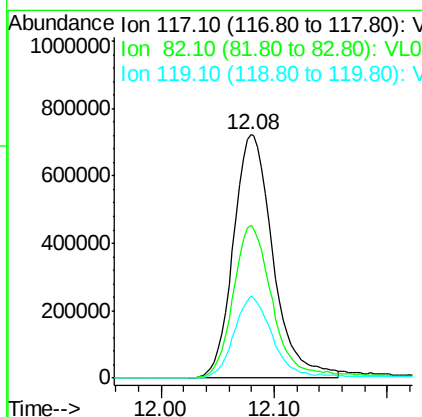
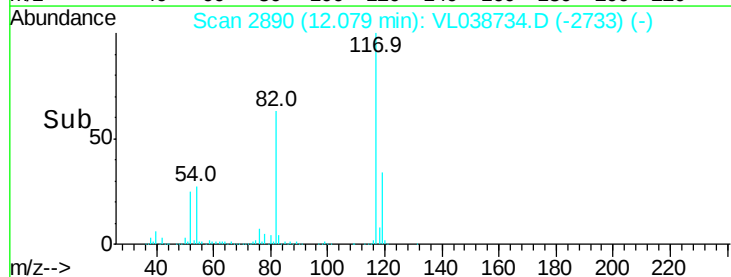
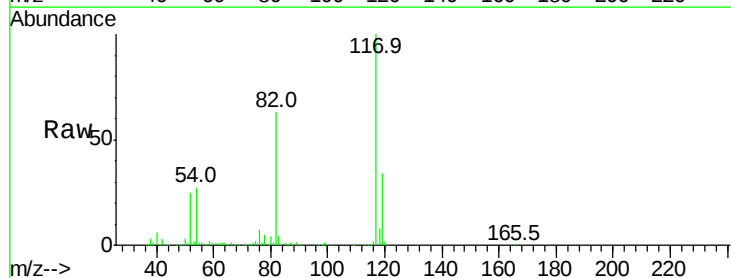
Tgt Ion:117 Resp: 1764528

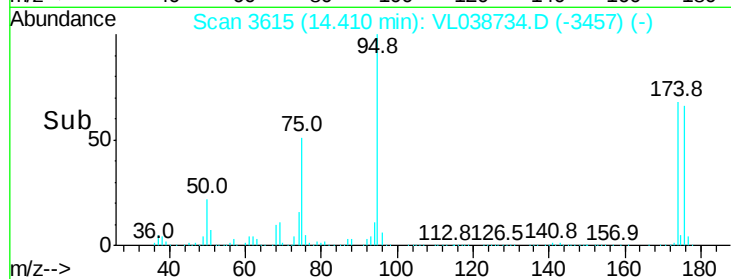
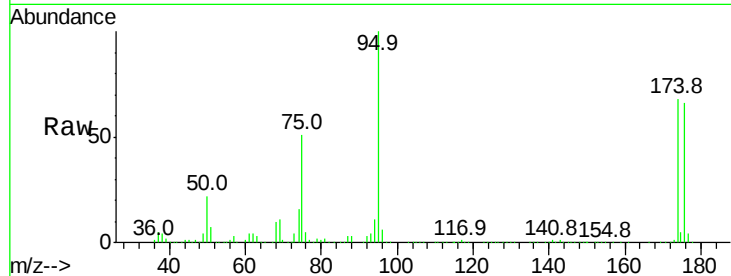
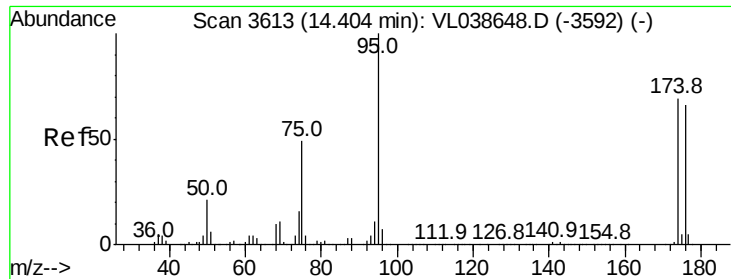
Ion Ratio Lower Upper

117 100

82 63.9 51.6 77.4

119 34.2 26.9 40.3





#68

1-Bromo-4-Fluorobenzene

Concen: 9.18 ppbv

RT: 14.41

Delta R.T

Lab File: ClientSampleId :

Acq: 24 Mar 2022 3.09

Tgt Ion:

Ion Ratio

95 100

174 74.

175 5.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/24/2022

Supervised By :Mahesh Dadoda 03/28/2022

