

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_L\DATA\VL030922\  
 Data File : VL038581.D  
 Acq On : 9 Mar 2022 18:24  
 Operator : SY/AP  
 Sample : N1702-05  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 AA-1

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/10/2022  
 Supervised By :Mahesh Dadoda 03/14/2022

Quant Time: Mar 10 01:09:40 2022  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL030822A  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:  
 QLast Update : Tue Mar 08 21:18:44 2022  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.67  | 49   | 826130   | 10.00 | ppbv  | 0.01     |
| 33) 1,4-Difluorobenzene | 7.18  | 114  | 2080761  | 10.00 | ppbv  | 0.01     |
| 55) Chlorobenzene-d5    | 12.09 | 117  | 1804333  | 10.00 | ppbv  | 0.01     |

System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.41  | 95    | 1338338  | 9.76     | ppbv | 0.01   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 97.60% |

| Target Compounds           | R.T. | QIon | Response | Conc  | Units  | Qvalue |
|----------------------------|------|------|----------|-------|--------|--------|
| 2) Dichlorodifluoromethane | 3.05 | 85   | 27530    | 0.22  | ppbv   | 98     |
| 3) Chlorodifluoromethane   | 3.00 | 51   | 39572    | 0.27  | ppbv # | 90     |
| 4) Chloromethane           | 3.15 | 50   | 25628    | 0.47  | ppbv   | 94     |
| 9) Propene                 | 3.03 | 41   | 47663m   | 0.93  | ppbv   |        |
| 11) Trichlorofluoromethane | 3.96 | 101  | 22463    | 0.21  | ppbv   | 95     |
| 13) Ethanol                | 3.61 | 45   | 265742   | 45.01 | ppbv   | 98     |
| 15) Acetone                | 3.85 | 43   | 336198   | 5.77  | ppbv   | 99     |
| 19) Isopropyl Alcohol      | 3.98 | 45   | 99253    | 2.55  | ppbv # | 87     |
| 20) Methylene Chloride     | 4.35 | 84   | 906965   | 25.86 | ppbv   | 96     |
| 26) Hexane                 | 5.69 | 57   | 1119781  | 12.15 | ppbv # | 44     |
| 34) 2-Butanone             | 5.26 | 43   | 18767m   | 0.35  | ppbv   |        |
| 35) Carbon Tetrachloride   | 7.02 | 117  | 7773     | 0.05  | ppbv # | 91     |
| 36) Benzene                | 6.90 | 78   | 45976    | 0.24  | ppbv # | 95     |
| 53) Toluene                | 9.81 | 91   | 119580   | 0.60  | ppbv   | 97     |

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

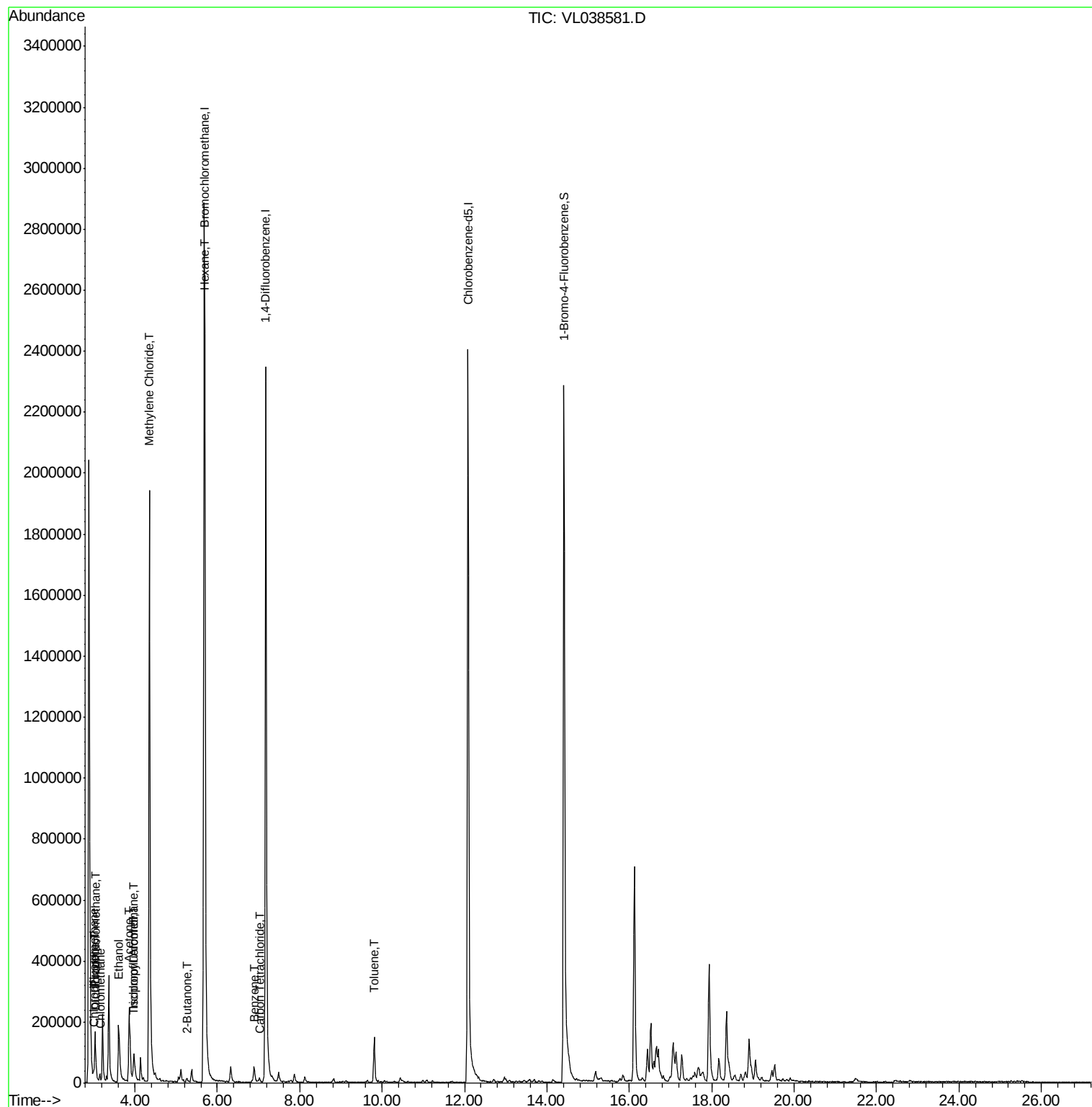
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_L\DATA\VL030922\  
Data File : VL038581.D  
Acq On : 9 Mar 2022 18:24  
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ALS Vial : 1 Sample Multiplier: 1

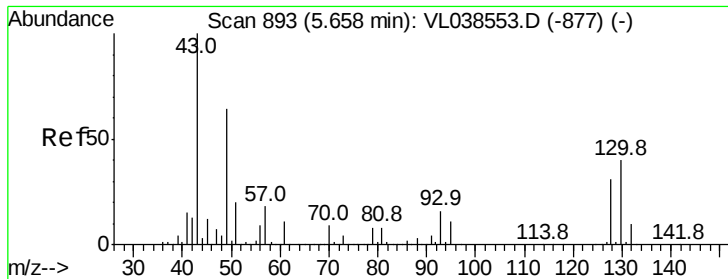
Instrument :  
MSVOA\_L  
ClientSampleId :  
AA-1

Quant Time: Mar 10 01:09:40 2022  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_L\METHODS\VL030822  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:  
QLast Update : Tue Mar 08 21:18:44 2022  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 03/10/2022  
Supervised By :Mahesh Dadoda 03/14/2022





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 9 Mar 2022 18:24

Tgt Ion:

Ion Ratio

49 100

128 51.

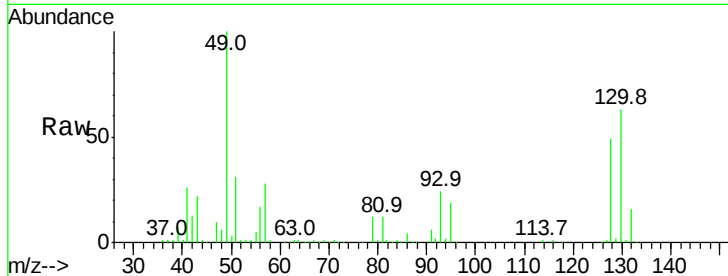
130 66.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/10/2022

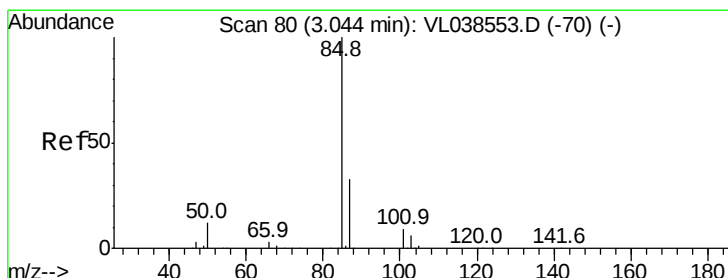
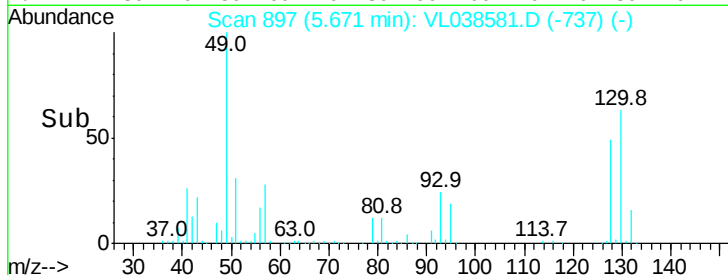
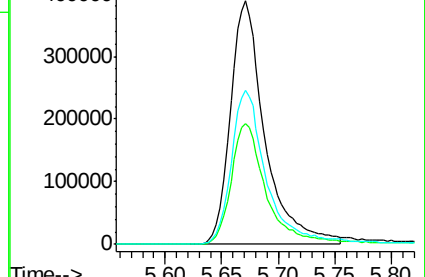
Supervised By :Mahesh Dadoda 03/14/2022



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.22 ppbv

RT: 3.05 min Scan# 83

Delta R.T. 0.01 min

Lab File: VL038581.D

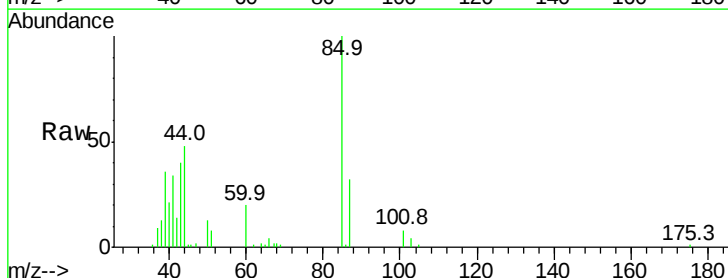
Acq: 9 Mar 2022 18:24

Tgt Ion: 85 Resp: 27530

Ion Ratio Lower Upper

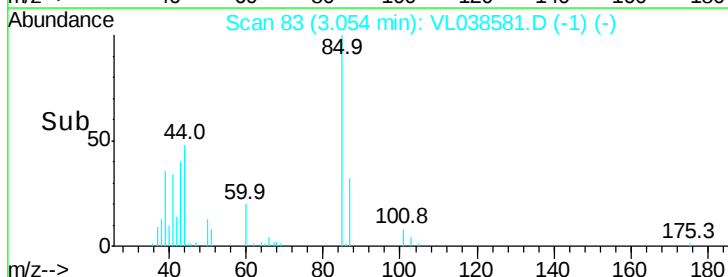
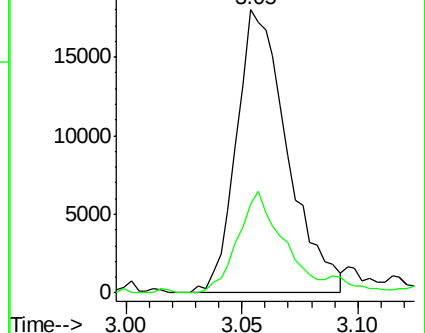
85 100

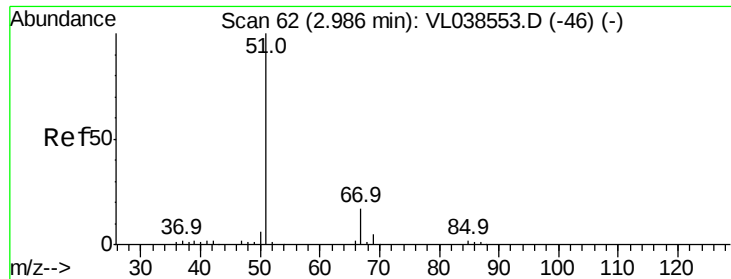
87 31.6 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.27 ppbv

RT: 3.00 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 9 Mar 2022 18:24

Tgt Ion:

Ion Ratio

51 100

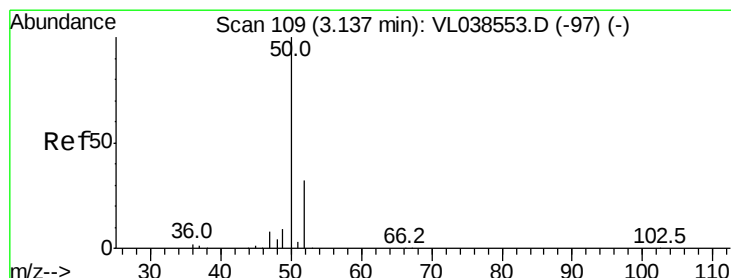
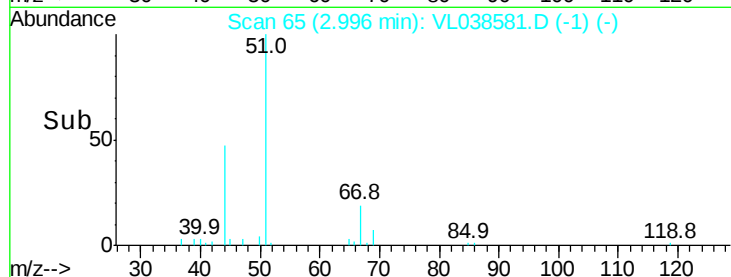
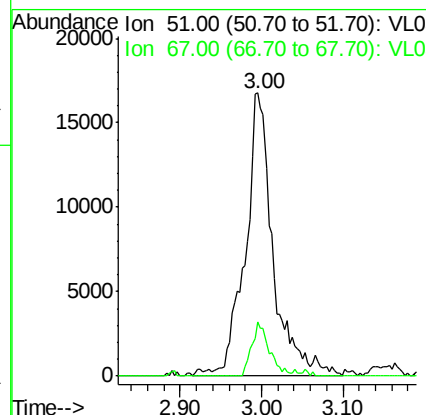
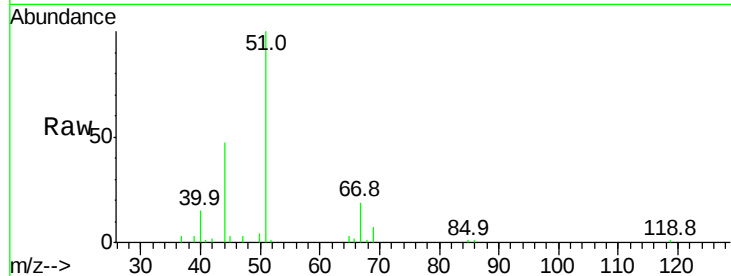
67 12.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/10/2022

Supervised By :Mahesh Dadoda 03/14/2022



#4

Chloromethane

Concen: 0.47 ppbv

RT: 3.15 min Scan# 114

Delta R.T. 0.02 min

Lab File: VL038581.D

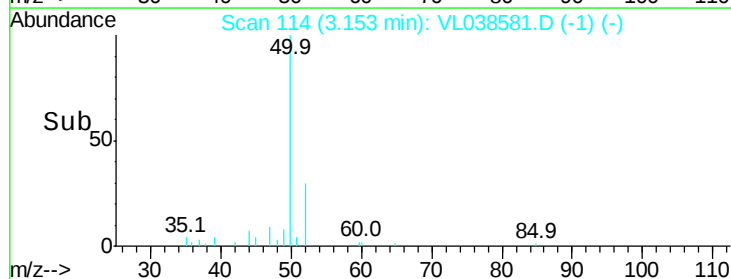
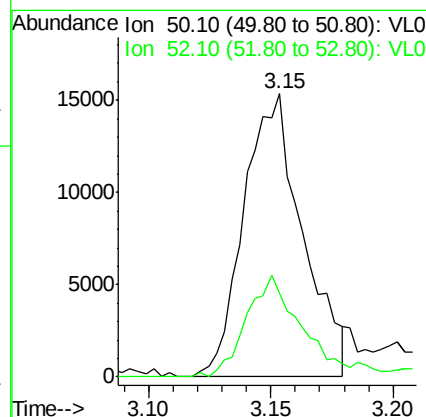
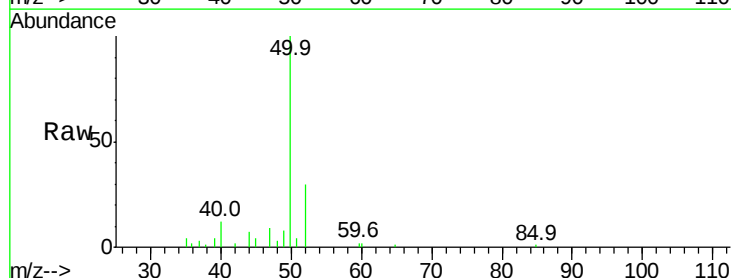
Acq: 9 Mar 2022 18:24

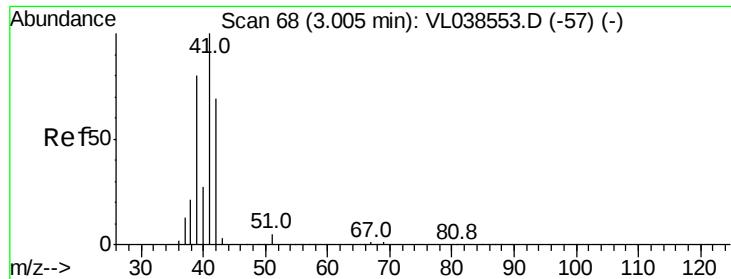
Tgt Ion: 50 Resp: 25628

Ion Ratio Lower Upper

50 100

52 28.5 25.6 38.4





#9

Propene

Concen: 0.93 ppbv m

RT: 3.03 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 9 Mar 2022 18:24

Tgt Ion:

Ion Ratio

41 100

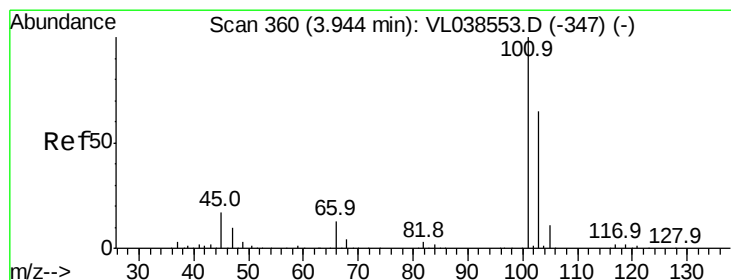
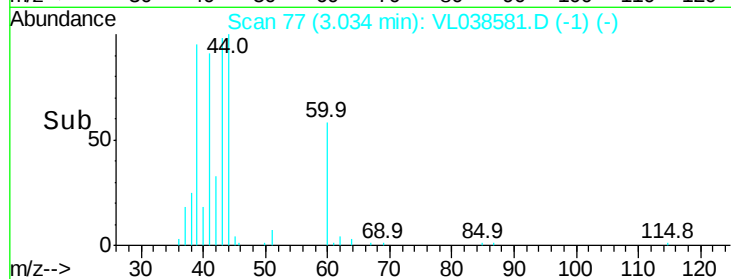
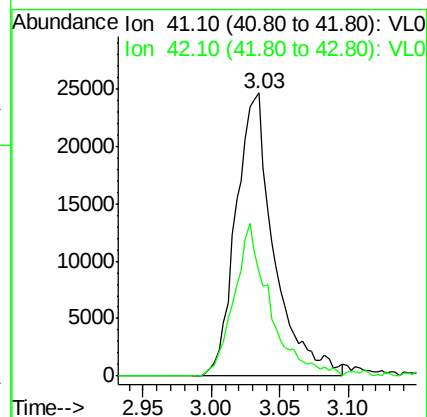
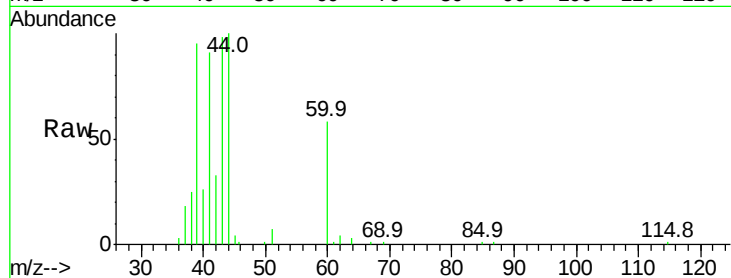
42 109.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/10/2022

Supervised By :Mahesh Dadoda 03/14/2022



#11

Trichlorofluoromethane

Concen: 0.21 ppbv

RT: 3.96 min Scan# 364

Delta R.T. 0.01 min

Lab File: VL038581.D

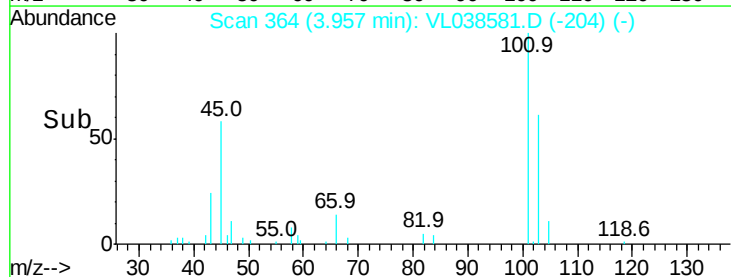
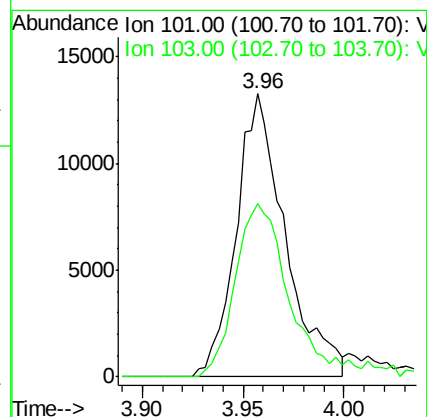
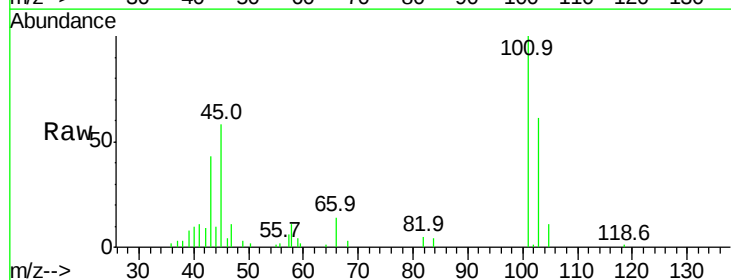
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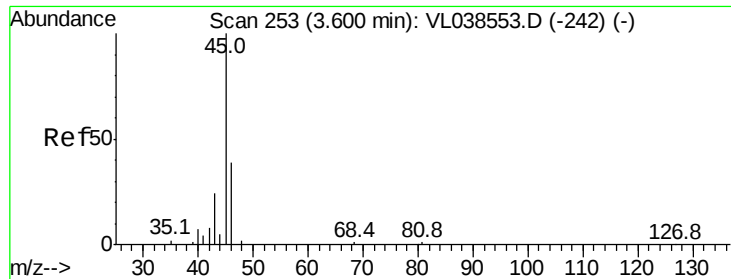
Tgt Ion:101 Resp: 22463

Ion Ratio Lower Upper

101 100

103 61.0 52.0 78.0



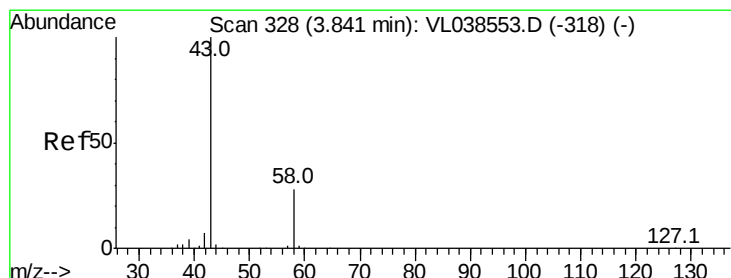
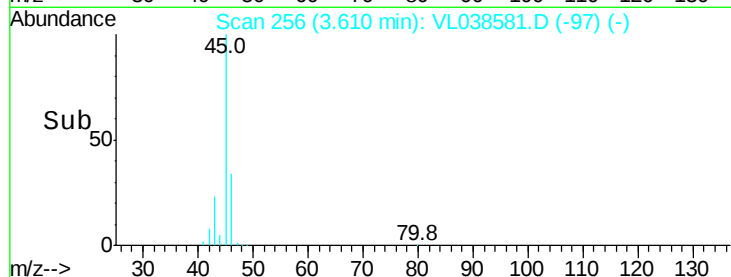
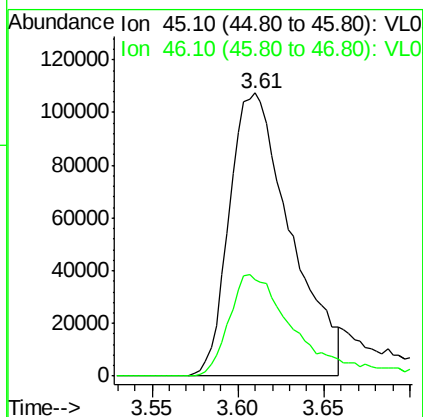
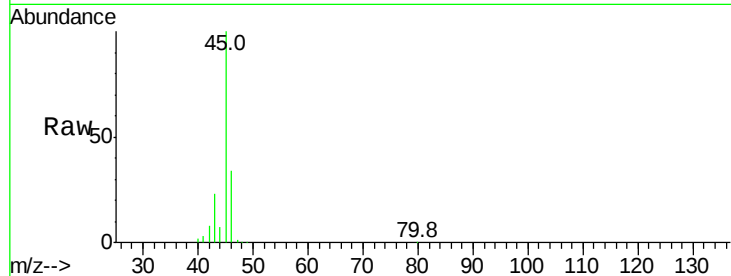


#13  
Ethanol  
Concen: 45.01 ppbv  
RT: 3.61  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId :  
Acq: 9 Mar 2022 18:24

Tgt Ion:  
Ion Ratio  
45 100  
46 40.

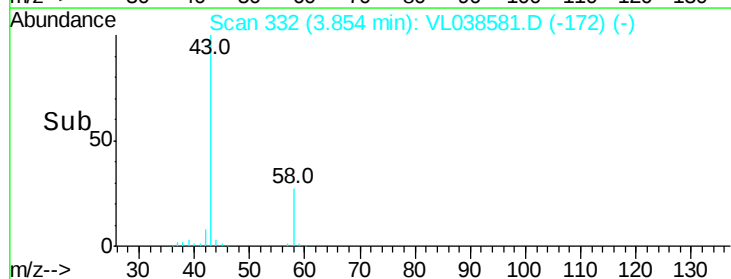
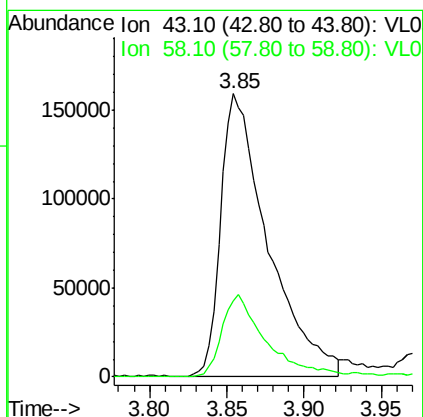
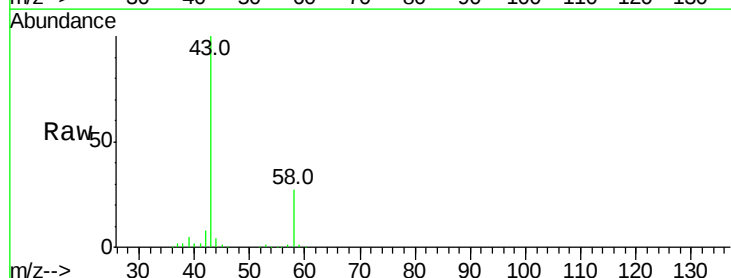
Manual Integrations  
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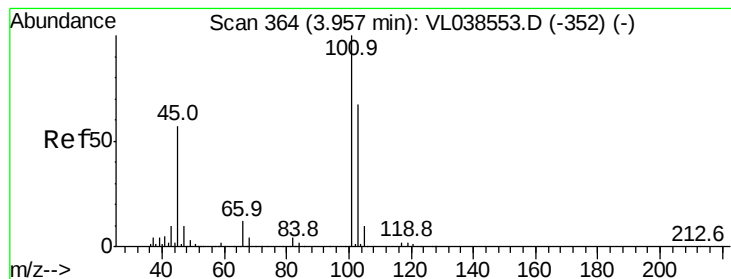
Reviewed By :Semsettin Yesilyurt 03/10/2022  
Supervised By :Mahesh Dadoda 03/14/2022



#15  
Acetone  
Concen: 5.77 ppbv  
RT: 3.85 min Scan# 332  
Delta R.T. 0.01 min  
Lab File: VL038581.D  
Acq: 9 Mar 2022 18:24

Tgt Ion: 43 Resp: 336198  
Ion Ratio Lower Upper  
43 100  
58 27.8 22.7 34.1





#19

Isopropyl Alcohol

Concen: 2.55 ppbv

RT: 3.98

Delta R.T. MSVOA\_L

Lab File: ClientSampleId :

Acq: 9 Mar 2022 18:24

Tgt Ion:

Ion Ratio

45 100

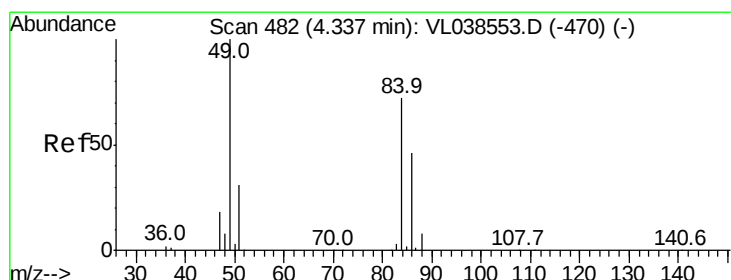
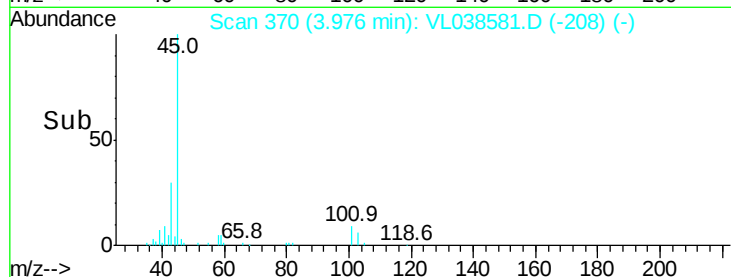
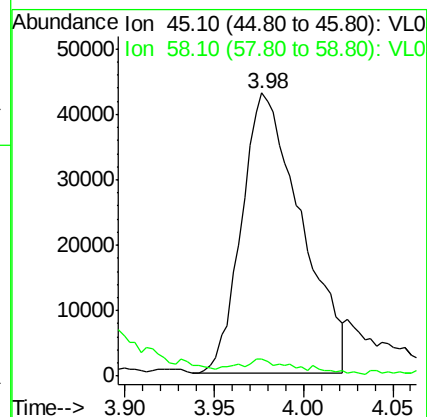
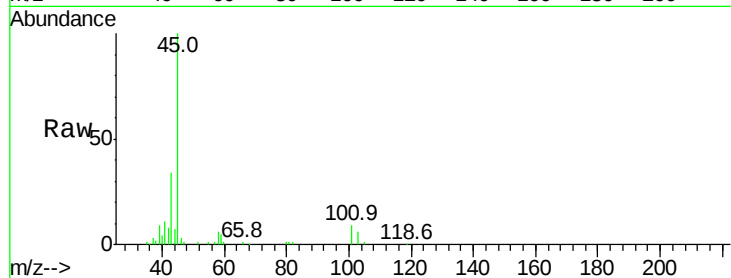
58 7.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/10/2022

Supervised By :Mahesh Dadoda 03/14/2022



#20

Methylene Chloride

Concen: 25.86 ppbv

RT: 4.35 min Scan# 486

Delta R.T. 0.01 min

Lab File: VL038581.D

Acq: 9 Mar 2022 18:24

Tgt Ion: 84 Resp: 906965

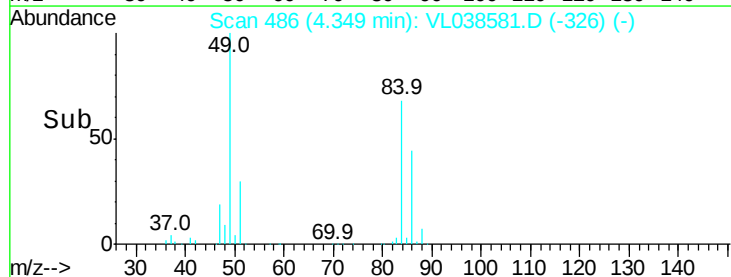
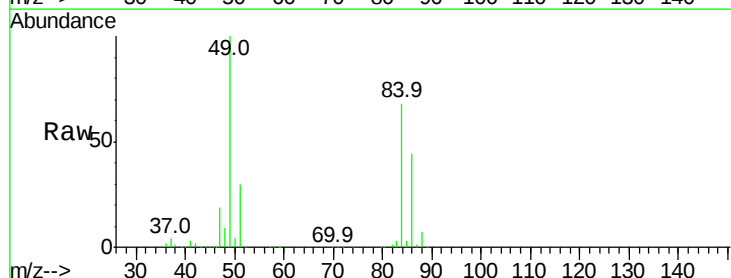
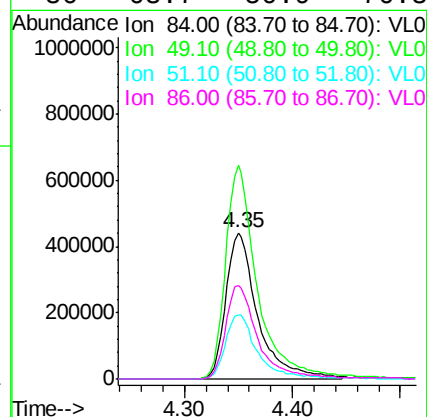
Ion Ratio Lower Upper

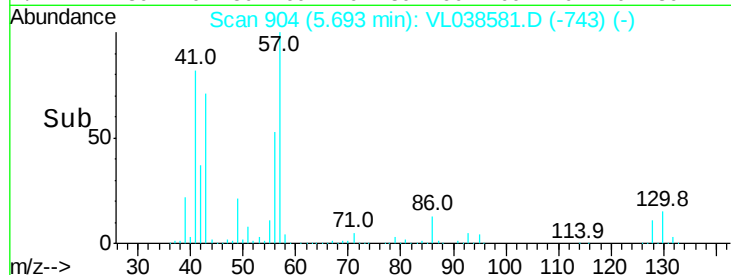
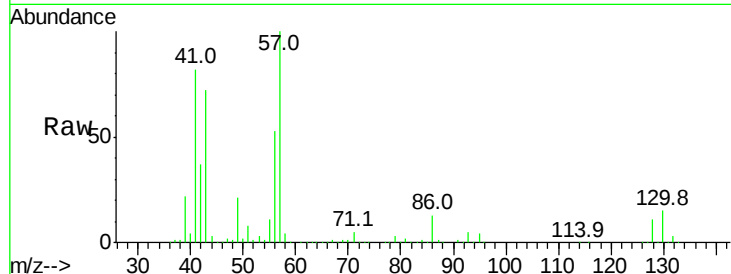
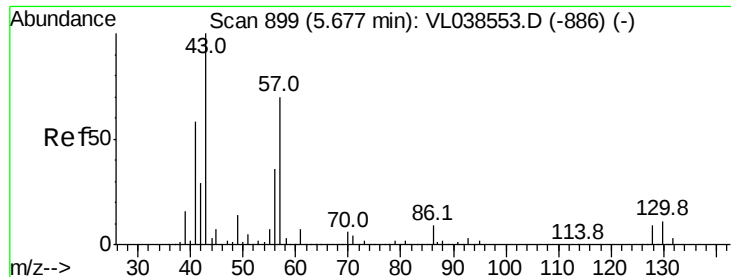
84 100

49 146.2 111.1 166.7

51 44.1 34.0 51.0

86 63.7 50.9 76.3



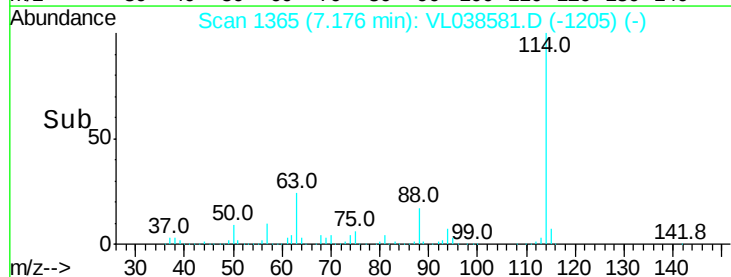
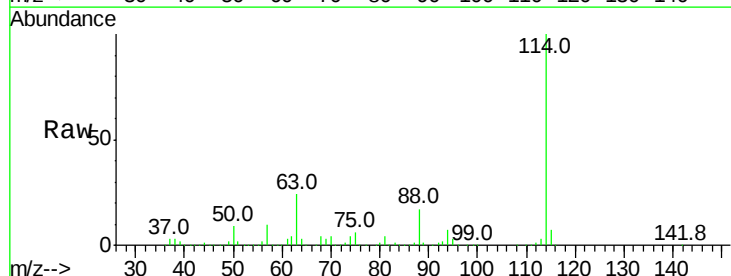
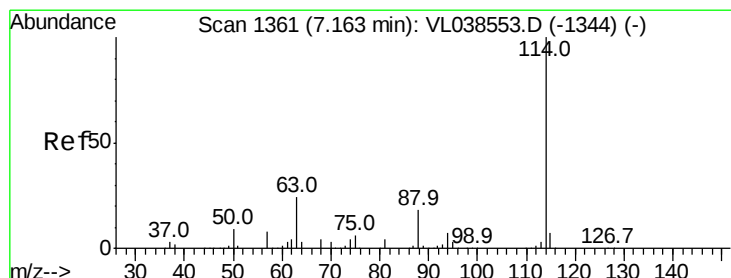
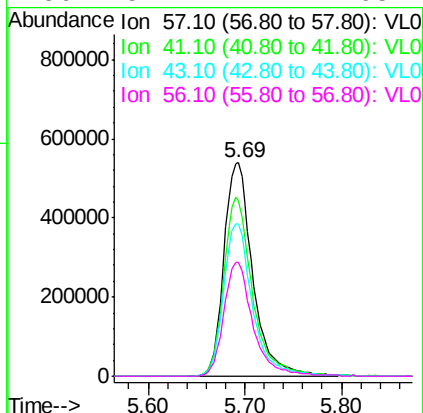


#26  
Hexane  
Concen: 12.15 ppbv  
RT: 5.69  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId :  
Acq: 9 Mar 2022 18:24

Tgt Ion: 57.10 (56.80 to 57.80): VL0  
Ion Ratio 100  
57 100  
41 83.  
43 72.  
56 54.2 42.2 63.2

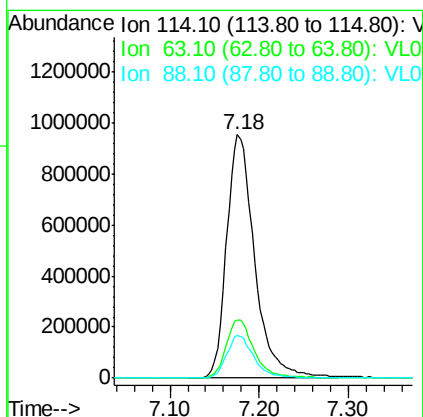
Manual Integrations  
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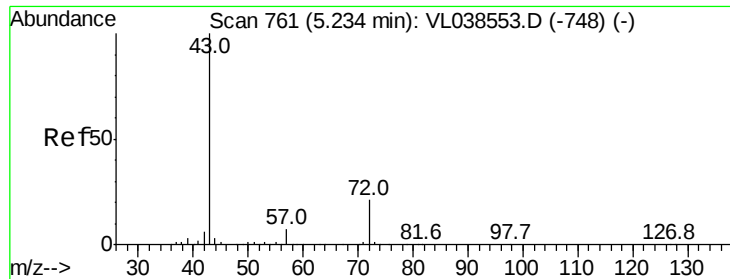
Reviewed By :Semsettin Yesilyurt 03/10/2022  
Supervised By :Mahesh Dadoda 03/14/2022



#33  
1,4-Difluorobenzene  
Concen: 10.00 ppbv  
RT: 7.18 min Scan# 1365  
Delta R.T. 0.01 min  
Lab File: VL038581.D  
Acq: 9 Mar 2022 18:24

Tgt Ion:114 Resp: 2080761  
Ion Ratio Lower Upper  
114 100  
63 24.2 19.6 29.4  
88 17.3 13.9 20.9





#34

2-Butanone

Concen: 0.35 ppbv m

RT: 5.26 Instrument : MSVOA\_L

Delta R.T. ClientSampleId :

Lab File: AA-1

Acq: 9 Mar 2022 18:24

Tgt Ion:

Ion Ratio

43 100

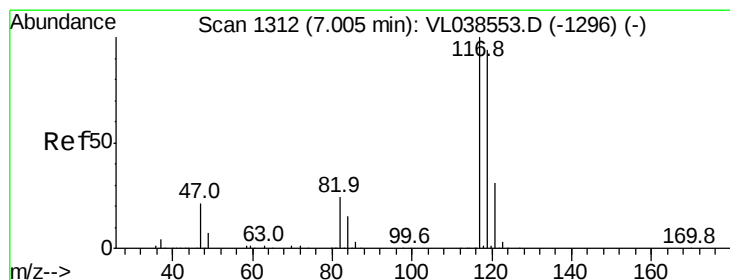
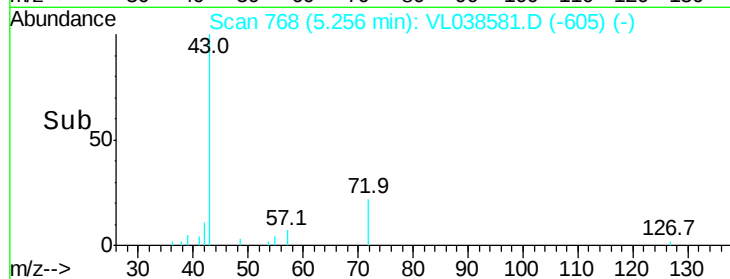
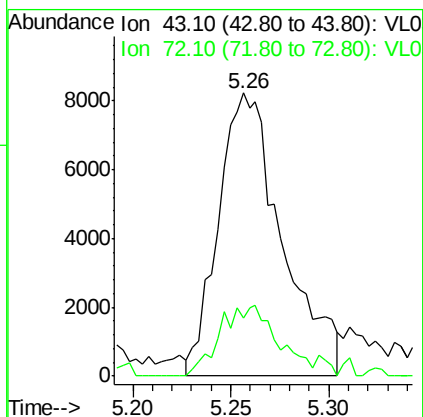
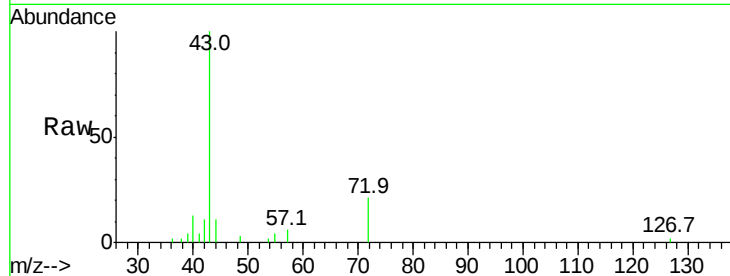
72 25.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/10/2022

Supervised By :Mahesh Dadoda 03/14/2022



#35

Carbon Tetrachloride

Concen: 0.05 ppbv

RT: 7.02 min Scan# 1318

Delta R.T. 0.02 min

Lab File: VL038581.D

Acq: 9 Mar 2022 18:24

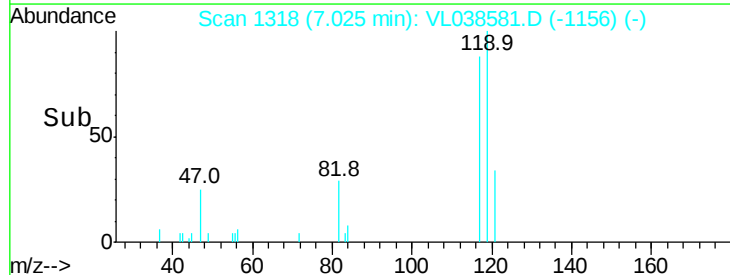
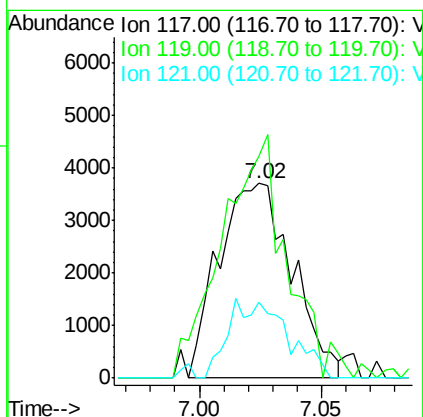
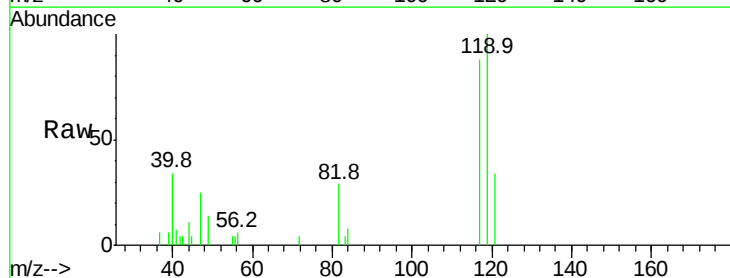
Tgt Ion:117 Resp: 7773

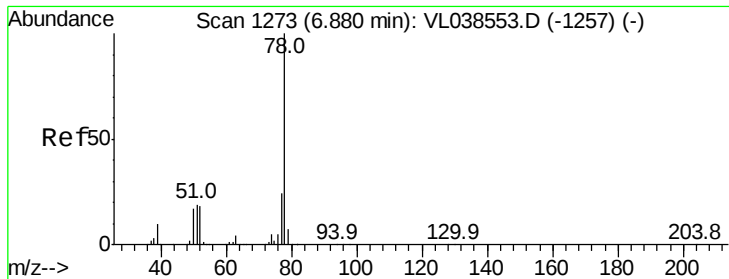
Ion Ratio Lower Upper

117 100

119 101.3 75.2 112.8

121 39.3 24.8 37.2#



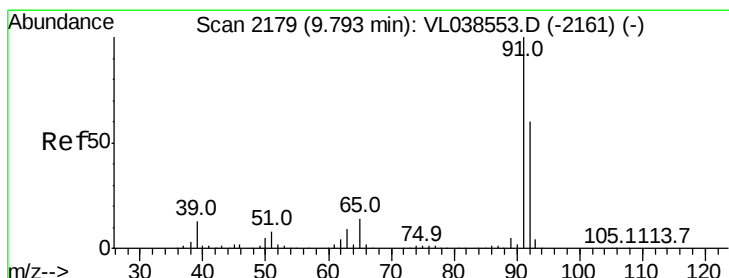
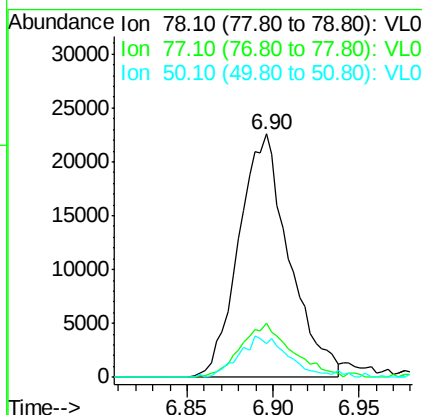
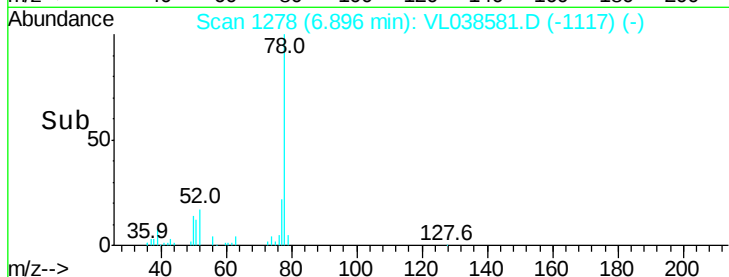
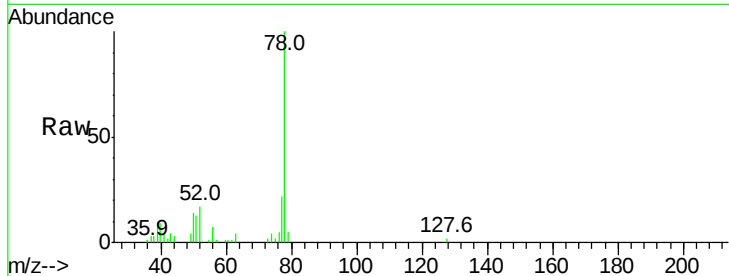


#36  
Benzene  
Concen: 0.24 ppbv  
RT: 6.90  
Instrument: MSVOA\_1  
Delta R.T.:  
Lab File: ClientSampleId :  
Acq: 9 Mar 2022 18:24

Tgt Ion:  
Ion Ratio  
78 100  
77 22.  
50 13.

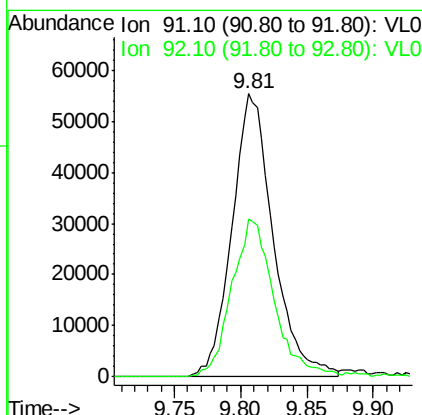
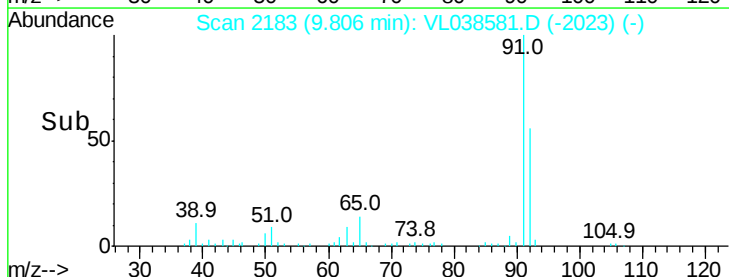
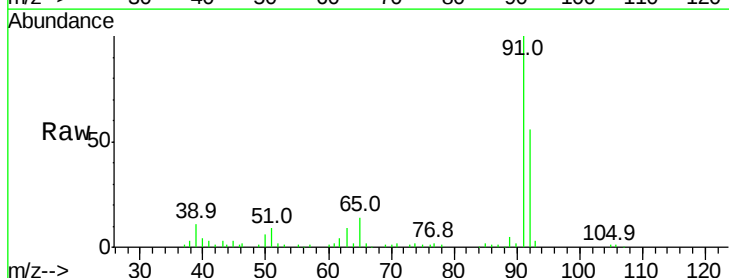
Manual Integrations  
APPROVED

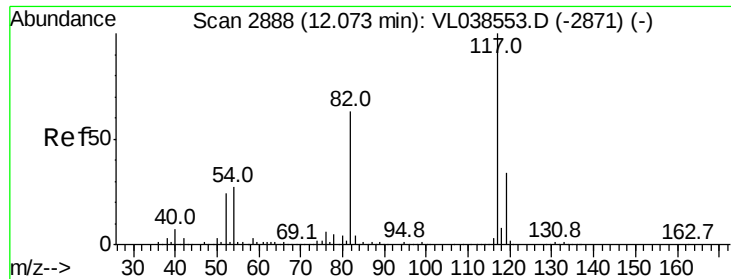
Reviewed By :Semsettin Yesilyurt 03/10/2022  
Supervised By :Mahesh Dadoda 03/14/2022



#53  
Toluene  
Concen: 0.60 ppbv  
RT: 9.81 min Scan# 2183  
Delta R.T. 0.01 min  
Lab File: VL038581.D  
Acq: 9 Mar 2022 18:24

Tgt Ion: 91 Resp: 119580  
Ion Ratio Lower Upper  
91 100  
92 57.9 48.1 72.1



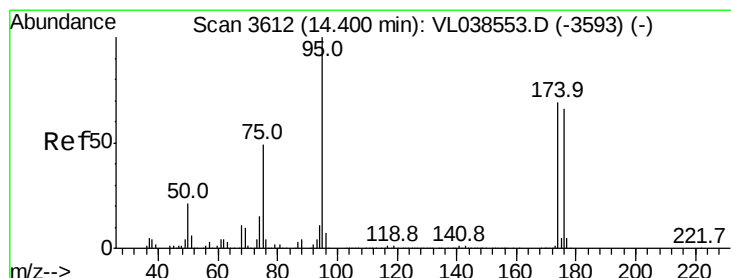
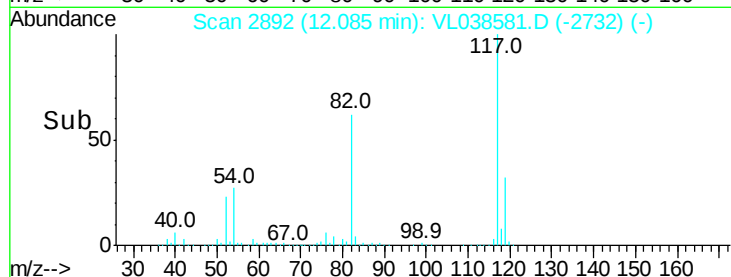
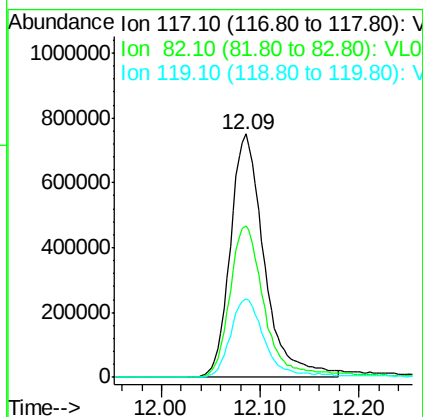
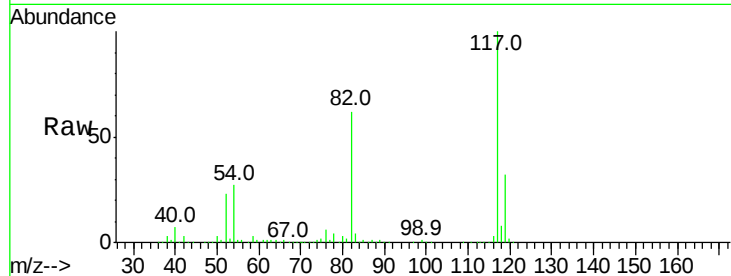


#55  
Chlorobenzene-d5  
Concen: 10.00 ppbv  
RT: 12.09 min  
Instrument: MSVOA\_1  
Delta R.T.:  
Lab File: ClientSampleId :  
Acq: 9 Mar 2022 18:24

Tgt Ion: 117  
Ion Ratio: 100  
117 100  
82 66.  
119 34.

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 03/10/2022  
Supervised By :Mahesh Dadoda 03/14/2022



#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.76 ppbv  
RT: 14.41 min Scan# 3616  
Delta R.T. 0.01 min  
Lab File: VL038581.D  
Acq: 9 Mar 2022 18:24

Tgt Ion: 95 Resp: 1338338  
Ion Ratio Lower Upper  
95 100  
174 73.3 56.2 84.4  
175 5.3 4.2 6.2

