

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111621\  
 Data File : VL038039.D  
 Acq On : 16 Nov 2021 14:30  
 Operator : SY/AP  
 Sample : M3277-01DL 4X  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA L  
 ClientSampleId :  
 E057-1100DL

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/17/2021  
 Supervised By :Mahesh Dadoda 11/17/2021

Quant Time: Nov 17 09:20:57 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111621A  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:  
 QLast Update : Tue Nov 16 09:59:16 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.66  | 49   | 874034   | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.17  | 114  | 2565427  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.07 | 117  | 2304565  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.40  | 95    | 1734152  | 10.42    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 104.20% |

| Target Compounds           | R.T.  | QIon | Response | Conc   | Units  | Ovalue |
|----------------------------|-------|------|----------|--------|--------|--------|
| 4) Chloromethane           | 3.14  | 50   | 484833   | 5.997  | ppbv   | 99     |
| 11) Trichlorofluoromethane | 3.95  | 101  | 698128   | 3.974  | ppbv   | 99     |
| 20) Methylene Chloride     | 4.34  | 84   | 240718   | 3.993  | ppbv   | 98     |
| 24) 1,1-Dichloroethane     | 5.01  | 63   | 381634   | 2.875  | ppbv   | 98     |
| 26) Hexane                 | 5.68  | 57   | 719791   | 5.927  | ppbv # | 45     |
| 35) Carbon Tetrachloride   | 7.01  | 117  | 469062   | 2.645  | ppbv   | 99     |
| 39) 1,2-Dichloropropane    | 7.60  | 63   | 347865   | 3.688  | ppbv   | 93     |
| 42) Bromodichloromethane   | 7.78  | 83   | 1109151  | 6.220  | ppbv   | 99     |
| 72) 4-Ethyltoluene         | 15.82 | 105  | 3320680  | 10.316 | ppbv   | 98     |
| 74) 1,2,4-Trimethylbenzene | 16.75 | 105  | 2786917  | 9.401  | ppbv # | 71     |
| 77) 1,2-Dichlorobenzene    | 17.80 | 146  | 1287924  | 8.209  | ppbv   | 99     |

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

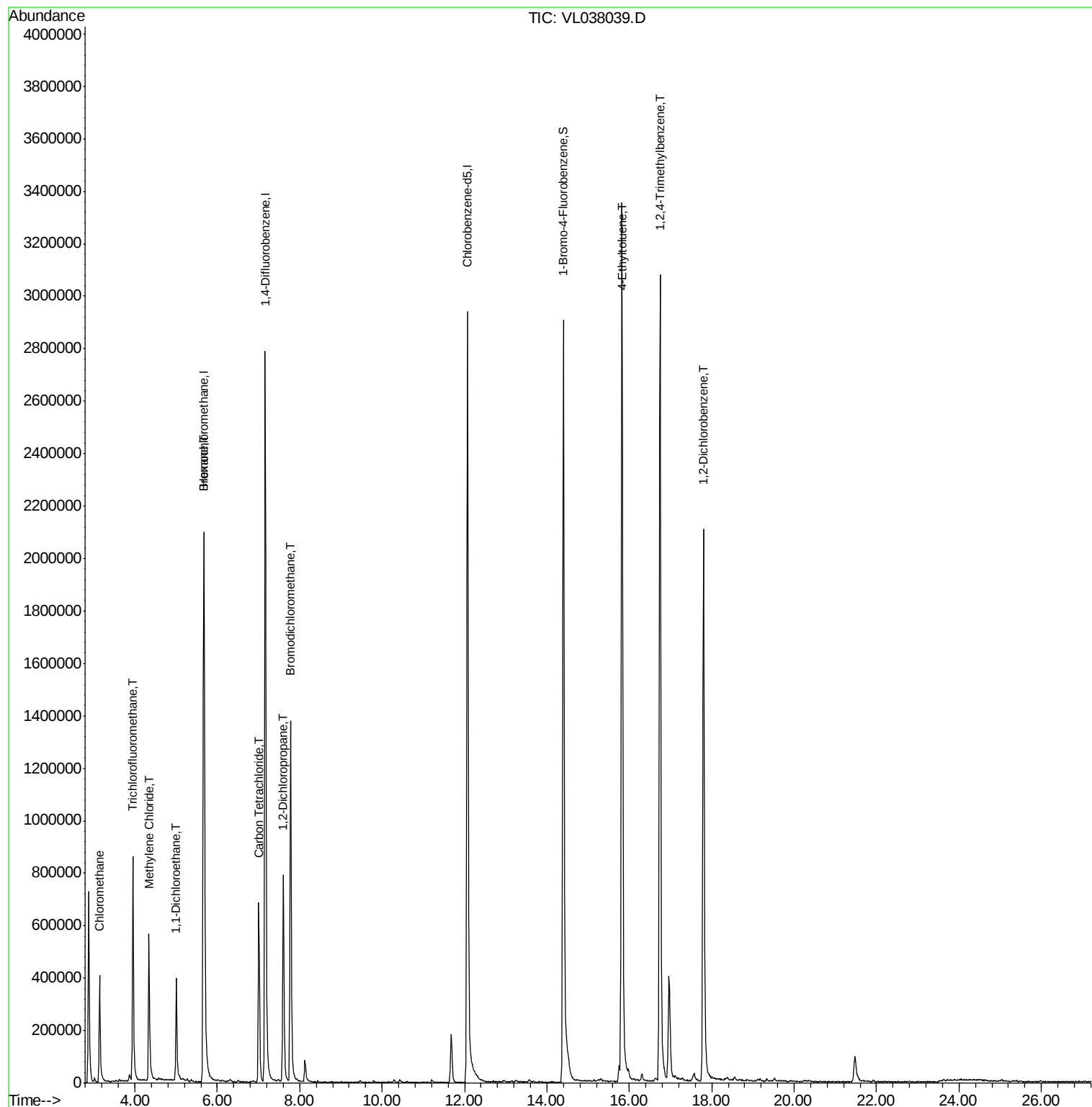
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL111621\  
Data File : VL038039.D  
Acq On : 16 Nov 2021 14:30  
Operator : SY/AP  
Sample : M3277-01DL 4X  
Misc : 400mL/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

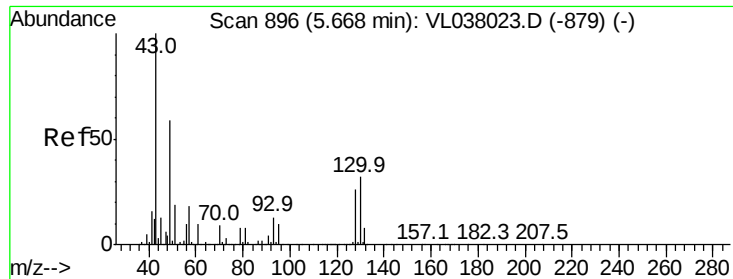
Instrument :  
MSVOA\_L  
ClientSampleId :  
E057-1100DL

Manual Integrations  
APPROVED

Quant Time: Nov 17 09:20:57 2021  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL111621  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:  
QLast Update : Tue Nov 16 09:59:16 2021  
Response via : Initial Calibration

Reviewed By :Semsettin Yesilyurt 11/17/2021  
Supervised By :Mahesh Dadoda 11/17/2021





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument: MSVOA\_1

Delta R.T. 0.00

Lab File: ClientSampleId: E057-1100DL

Acq: 16 Nov 2021 14:30

Tot Ion:

Ion Ratio

49 100

128 49.1

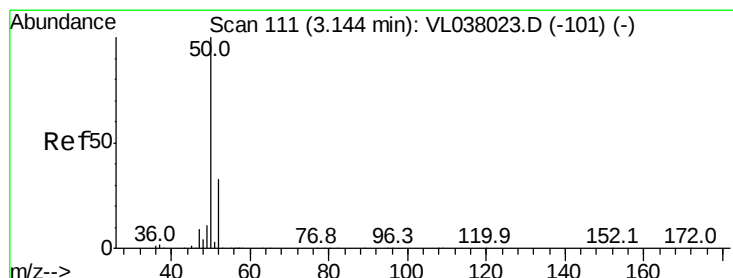
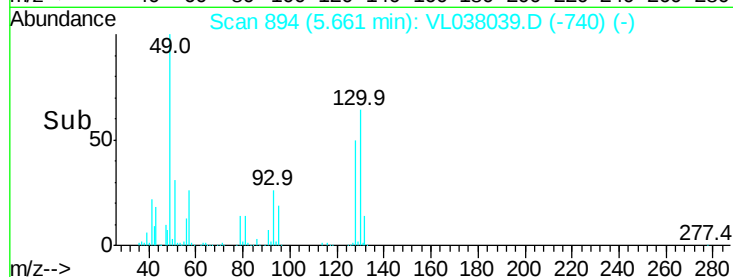
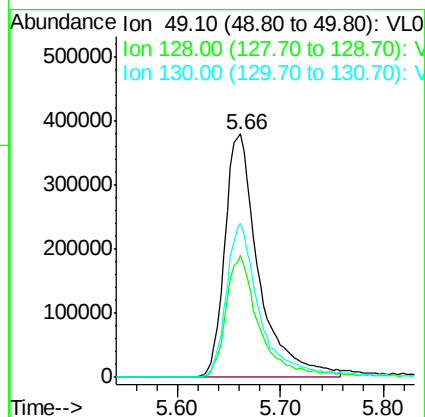
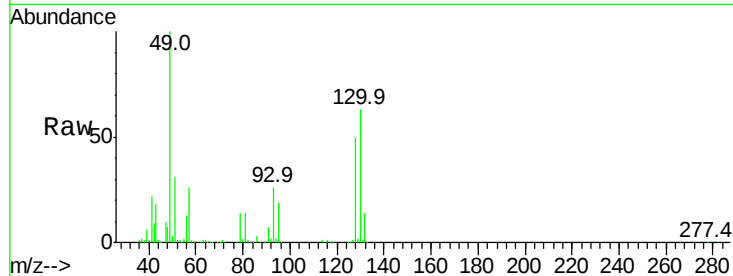
130 64.1

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/17/2021

Supervised By :Mahesh Dadoda 11/17/2021



#4

Chloromethane

Concen: 5.997 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL038039.D

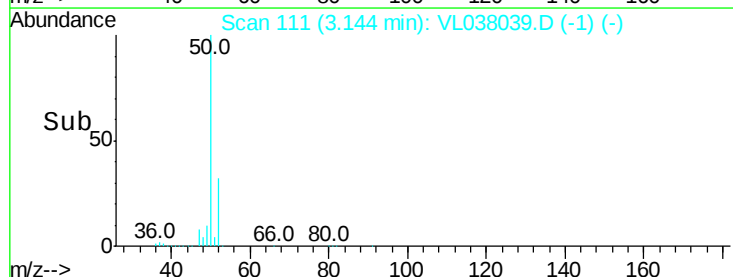
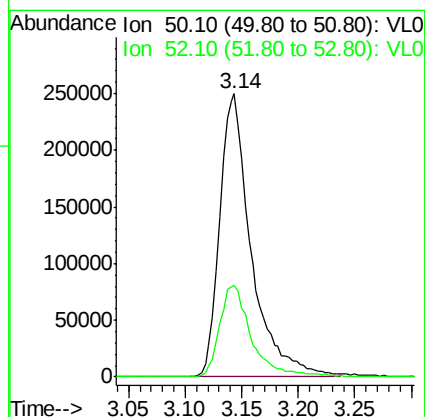
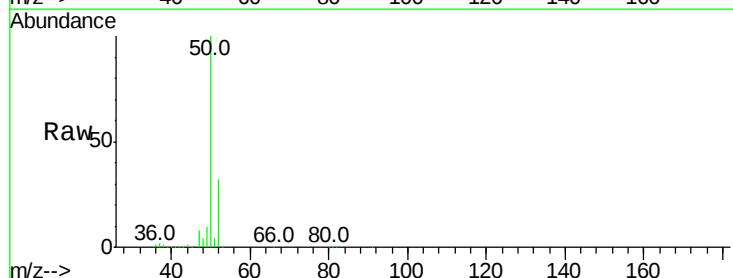
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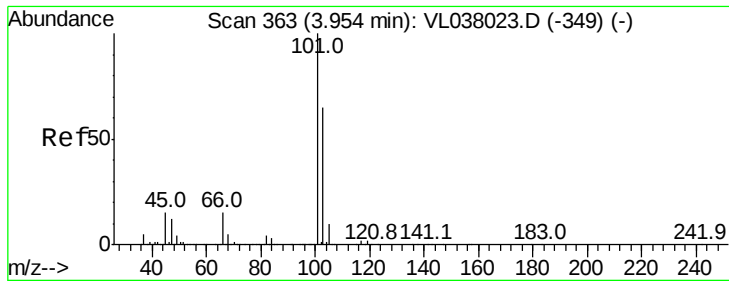
Tgt Ion: 50 Resp: 484833

Ion Ratio Lower Upper

50 100

52 32.3 26.4 39.6



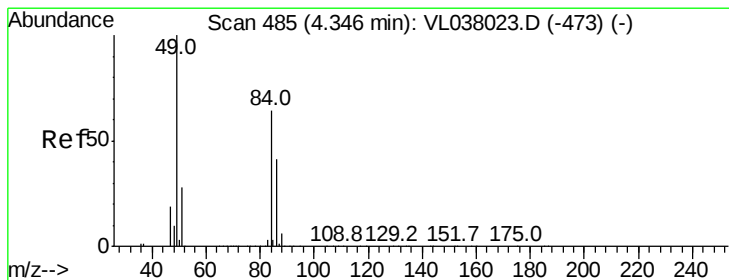
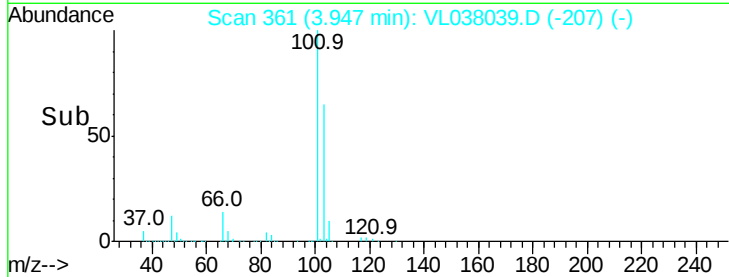
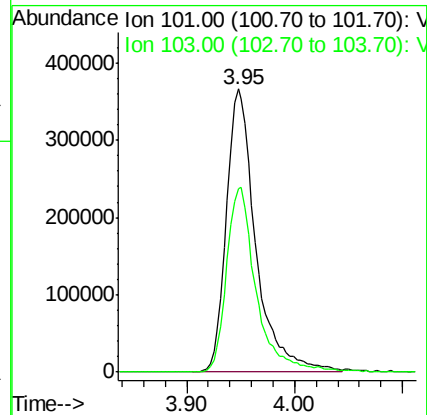
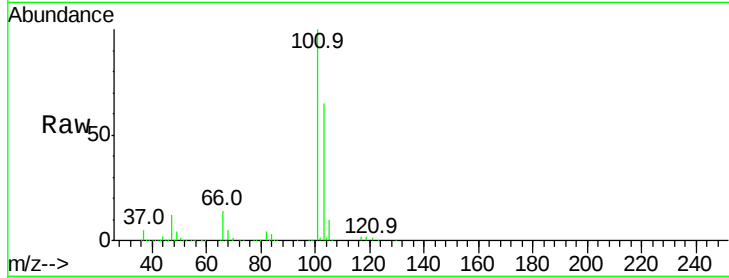


#11  
 Trichlorofluoromethane  
 Concen: 3.974 ppbv  
 RT: 3.95  
 Instrument: MSVOA\_L  
 Delta R.T.:  
 Lab File: ClientSampleId :  
 E057-1100DL  
 Acq: 16 Nov 2021 14:30

Tot Ion:1  
 Ion Rati  
 101 100  
 103 64.

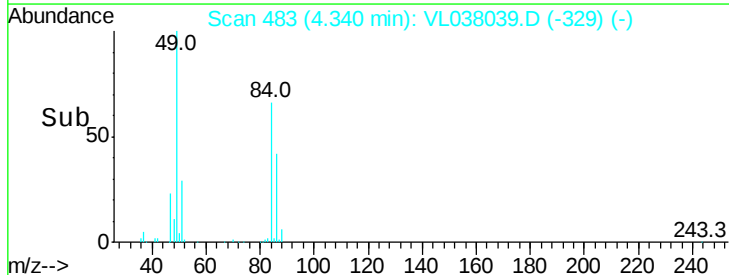
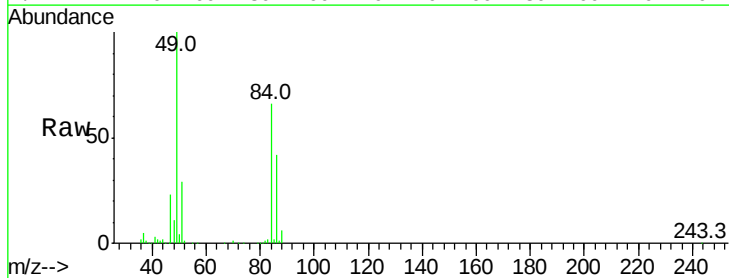
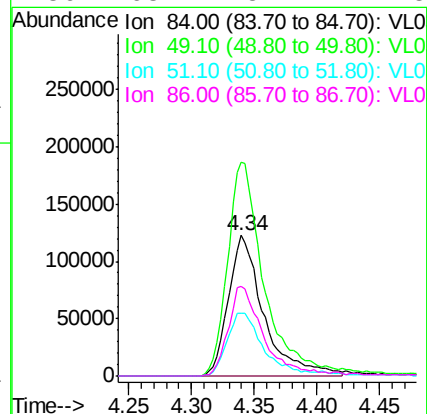
Manual Integrations  
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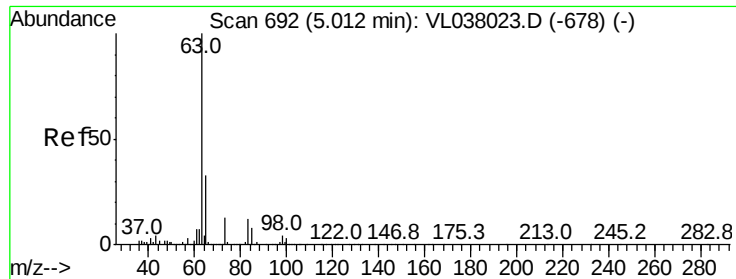
Reviewed By :Semsettin Yesilyurt 11/17/2021  
 Supervised By :Mahesh Dadoda 11/17/2021



#20  
 Methylene Chloride  
 Concen: 3.993 ppbv  
 RT: 4.34 min Scan# 483  
 Delta R.T. -0.01 min  
 Lab File: VL038039.D  
 Acq: 16 Nov 2021 14:30

Tgt Ion: 84 Resp: 240718  
 Ion Ratio Lower Upper  
 84 100  
 49 152.3 125.1 187.7  
 51 44.5 35.3 52.9  
 86 63.7 51.7 77.5





#24

1,1-Dichloroethane

Concen: 2.875 ppbv

RT: 5.01 Instrument: MSVOA\_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 16 Nov 2021 14:30 E057-1100DL

Tot Ion:

Ion Ratio

63 100

98 3.

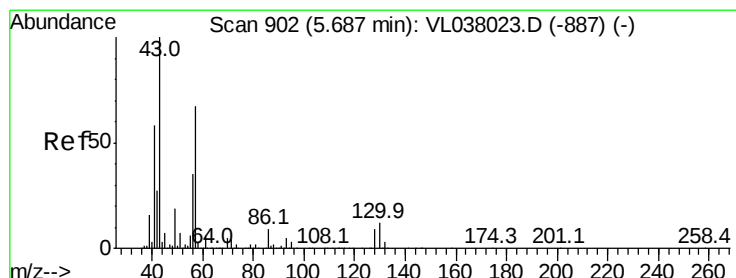
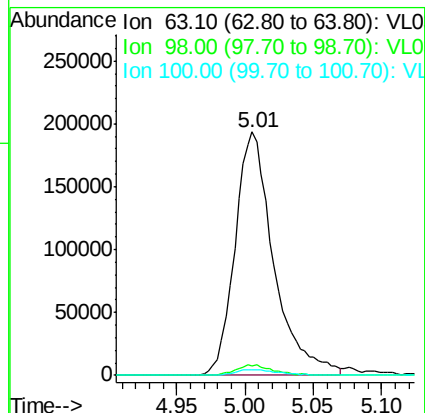
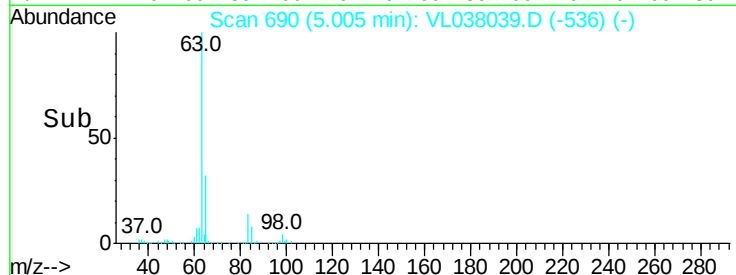
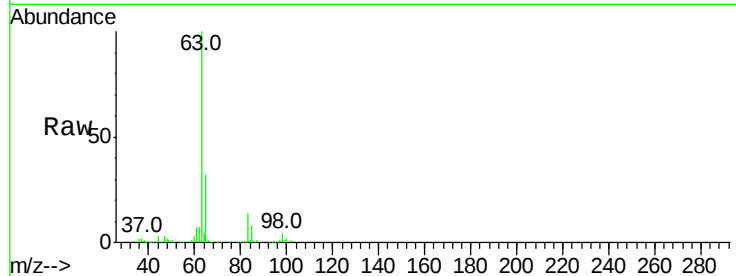
100 2.

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Reviewed By :Semsettin Yesilyurt 11/17/2021

Supervised By :Mahesh Dadoda 11/17/2021



#26

Hexane

Concen: 5.927 ppbv

RT: 5.68 min Scan# 900

Delta R.T. -0.01 min

Lab File: VL038039.D

Acq: 16 Nov 2021 14:30

Tgt Ion: 57 Resp: 719791

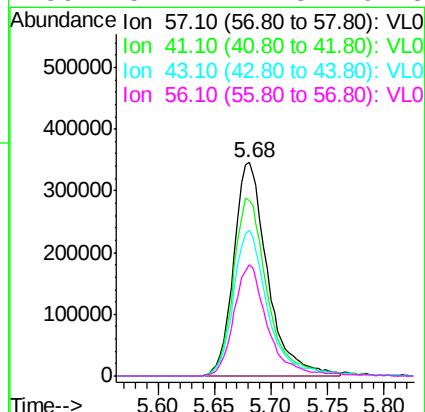
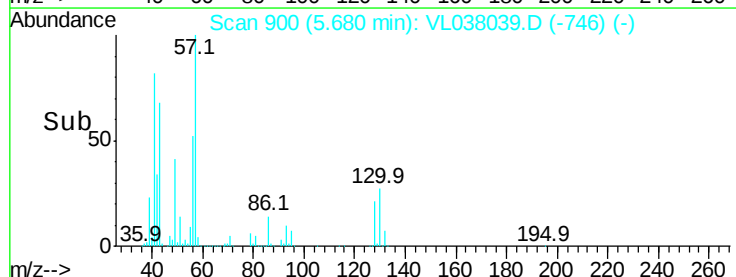
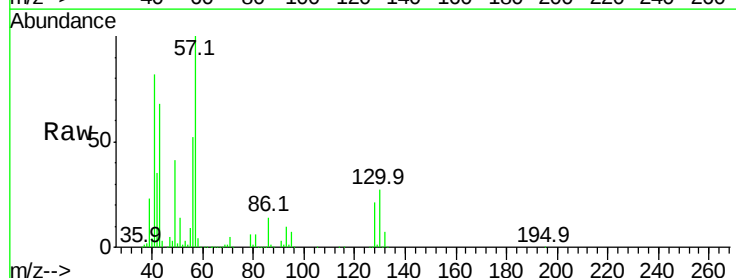
Ion Ratio Lower Upper

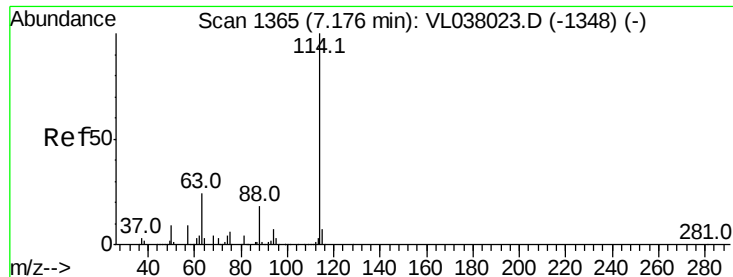
57 100

41 84.9 70.8 106.2

43 70.0 169.4 254.0#

56 52.4 41.8 62.8



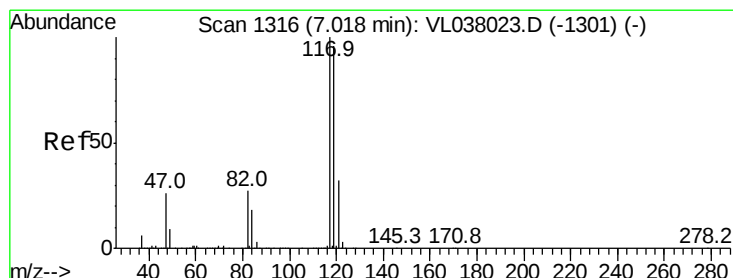
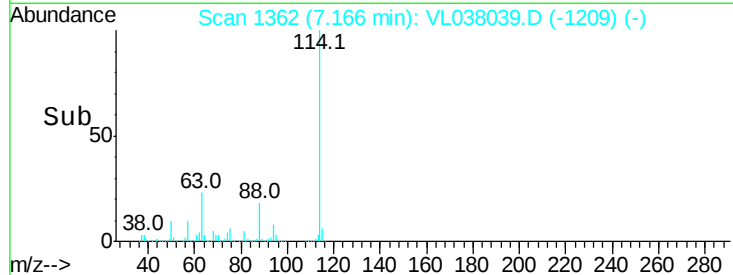
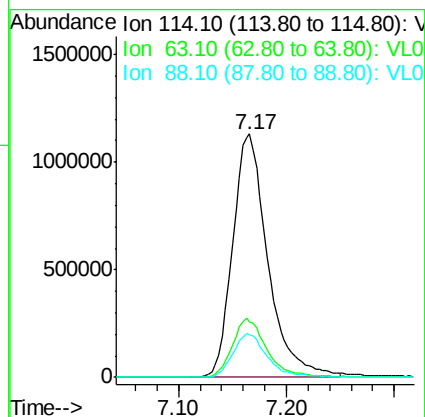
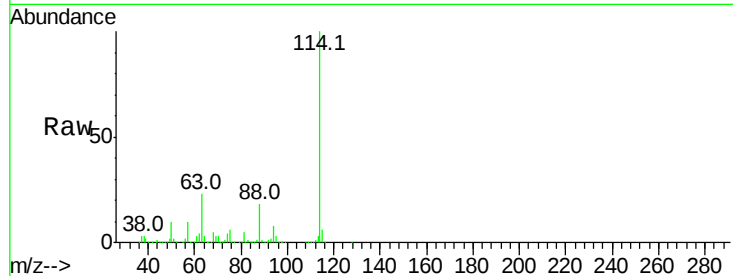


#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.17  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 E057-1100DL  
 Acq: 16 Nov 2021 14:30

Tot Ion:1  
 Ion Rati  
 114 100  
 63 23.  
 88 18.

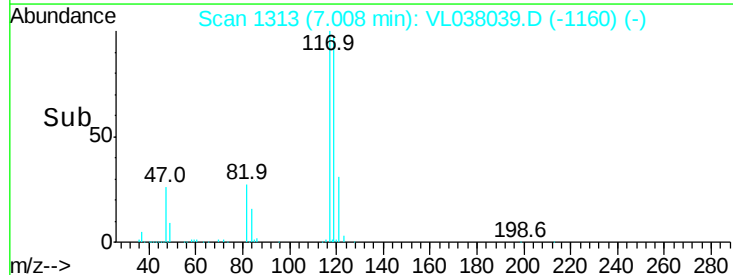
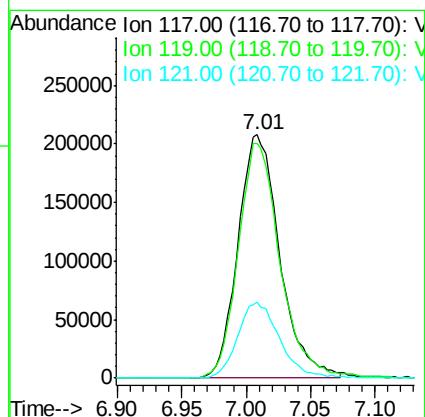
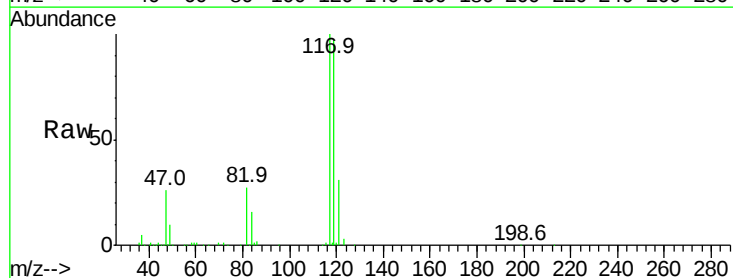
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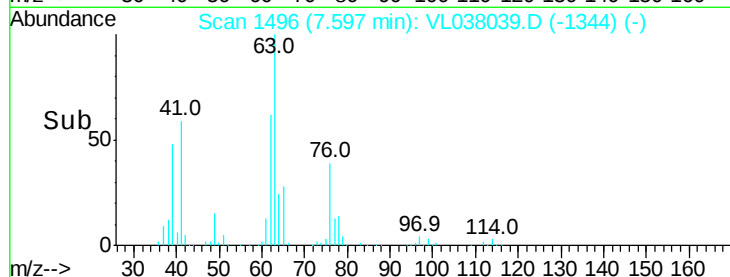
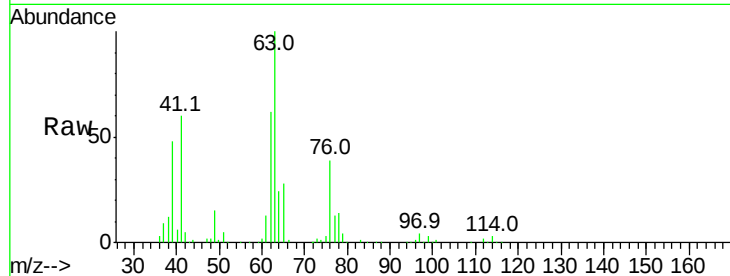
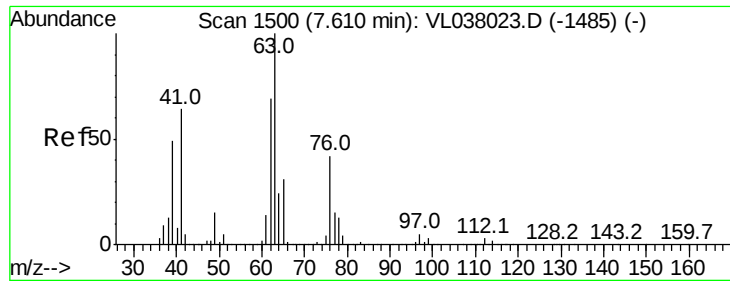
Reviewed By :Semsettin Yesilyurt 11/17/2021  
 Supervised By :Mahesh Dadoda 11/17/2021



#35  
 Carbon Tetrachloride  
 Concen: 2.645 ppbv  
 RT: 7.01 min Scan# 1313  
 Delta R.T. -0.01 min  
 Lab File: VL038039.D  
 Acq: 16 Nov 2021 14:30

Tgt Ion:117 Resp: 469062  
 Ion Ratio Lower Upper  
 117 100  
 119 96.4 76.5 114.7  
 121 31.2 25.3 37.9



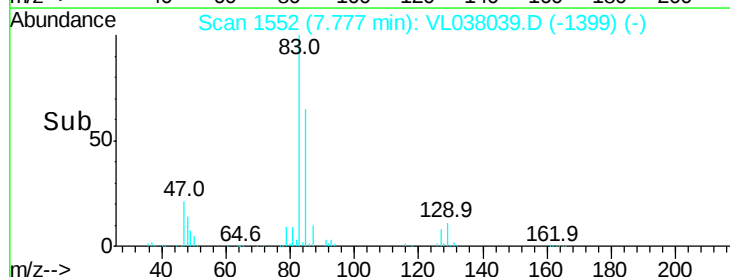
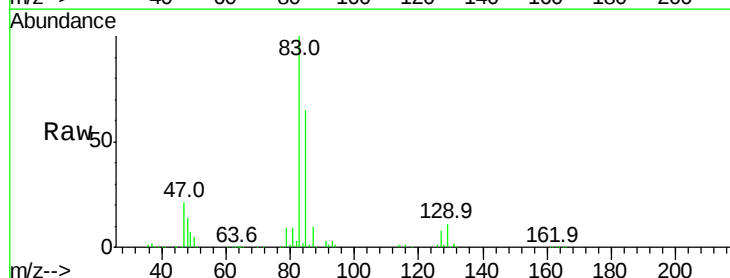
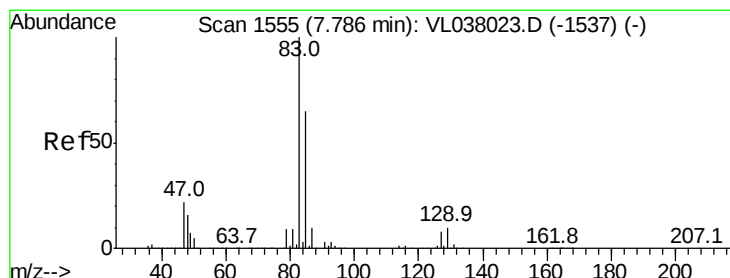
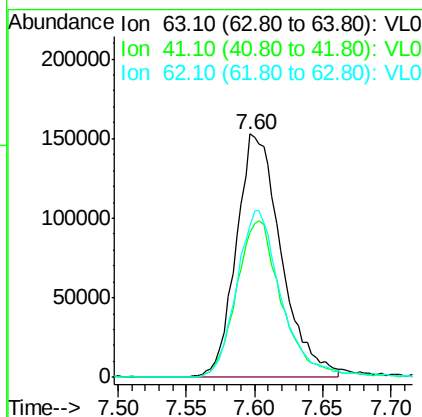


#39  
 1,2-Dichloropropane  
 Concen: 3.688 ppbv  
 RT: 7.60  
 Instrument: MSVOA\_L  
 Delta R.T.:  
 Lab File: ClientSampleId :  
 E057-1100DL  
 Acq: 16 Nov 2021 14:30

Tot Ion:  
 Ion Ratio  
 63 100  
 41 59.  
 62 61.

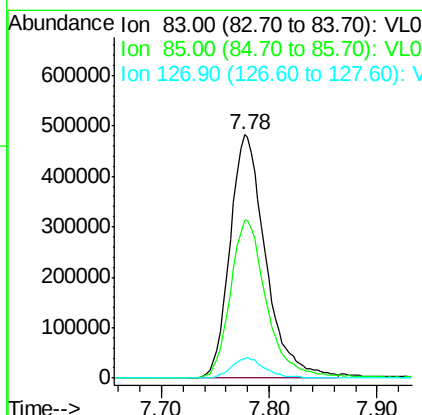
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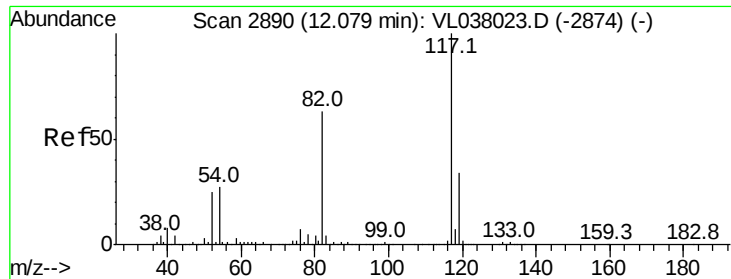
Reviewed By :Semsettin Yesilyurt 11/17/2021  
 Supervised By :Mahesh Dadoda 11/17/2021



#42  
 Bromodichloromethane  
 Concen: 6.220 ppbv  
 RT: 7.78 min Scan# 1552  
 Delta R.T. -0.01 min  
 Lab File: VL038039.D  
 Acq: 16 Nov 2021 14:30

Tgt Ion: 83 Resp: 1109151  
 Ion Ratio Lower Upper  
 83 100  
 85 64.9 51.6 77.4  
 127 8.0 6.6 10.0



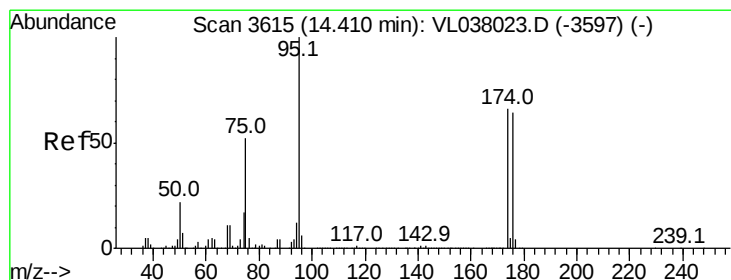
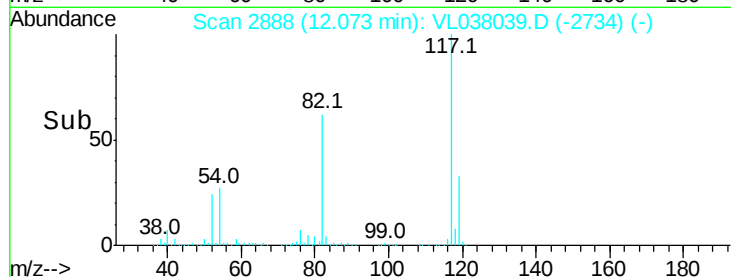
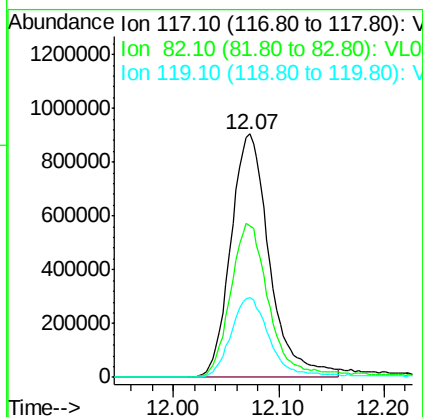
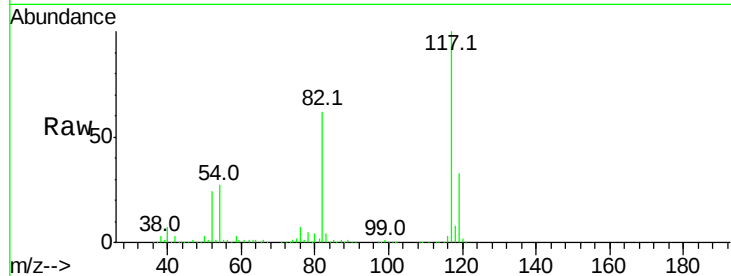


#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.07 min  
Instrument: MSVOA\_1  
Delta R.T.:  
Lab File: ClientSampleId :  
E057-1100DL  
Acq: 16 Nov 2021 14:30

Tot Ion:1  
Ion Rati  
117 100  
82 66.  
119 34.

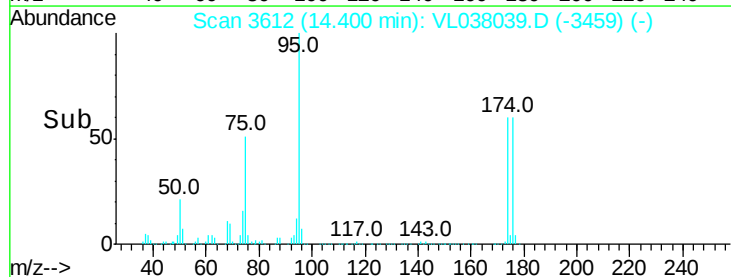
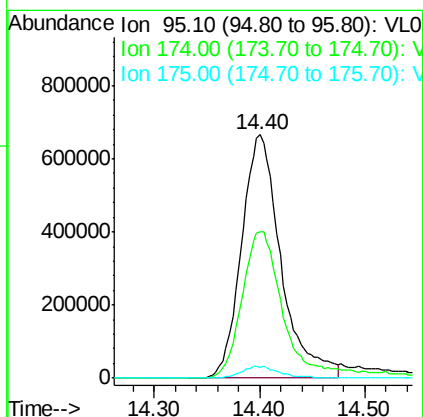
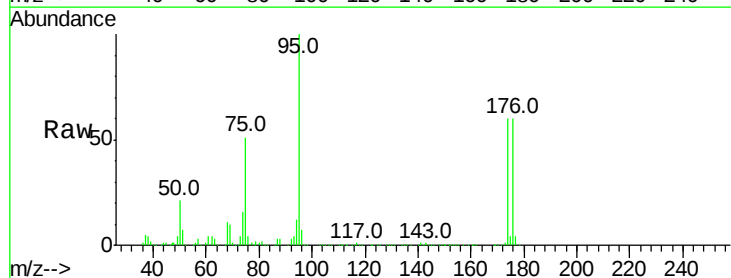
Manual Integrations  
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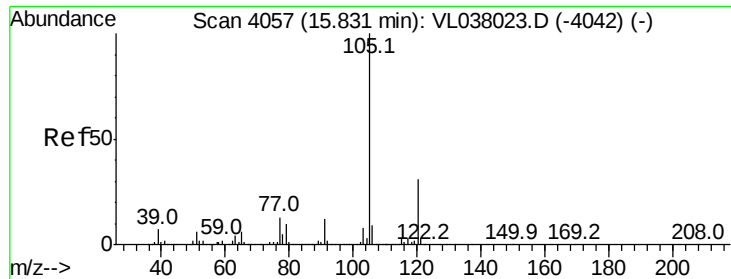
Reviewed By :Semsettin Yesilyurt 11/17/2021  
Supervised By :Mahesh Dadoda 11/17/2021



#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.415 ppbv  
RT: 14.40 min Scan# 3612  
Delta R.T. -0.01 min  
Lab File: VL038039.D  
Acq: 16 Nov 2021 14:30

Tgt Ion: 95 Resp: 1734152  
Ion Ratio Lower Upper  
95 100  
174 66.2 55.0 82.6  
175 4.9 4.2 6.2





#72

4-Ethyltoluene

Concen: 10.316 ppbv

RT: 15.82

Delta R.T. MSVOA\_L

Lab File: ClientSampleId :

Acq: 16 Nov 2021 14:30

Tot Ion:1

Ion Ratio

105 100

120 31.

91 12.

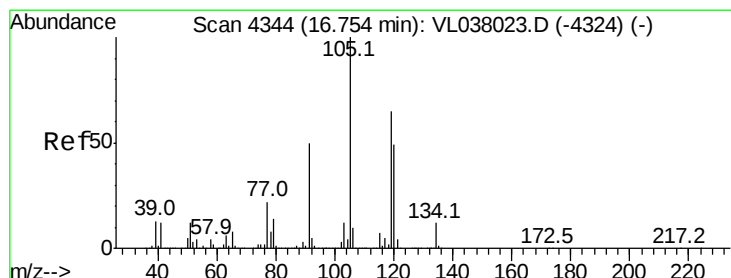
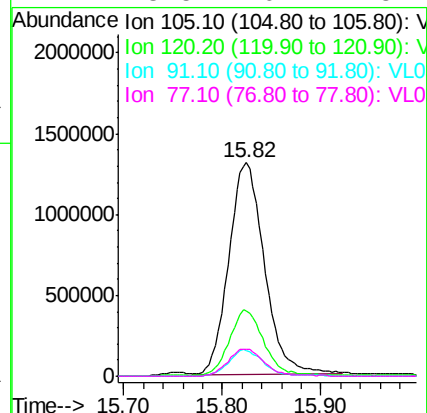
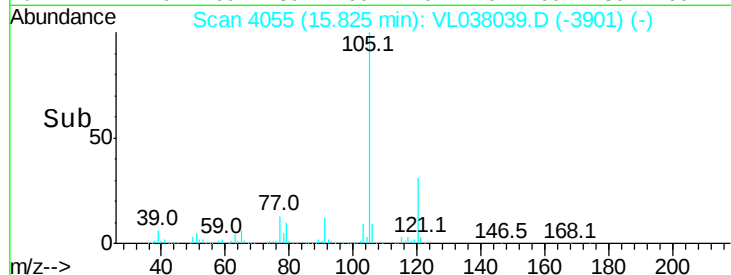
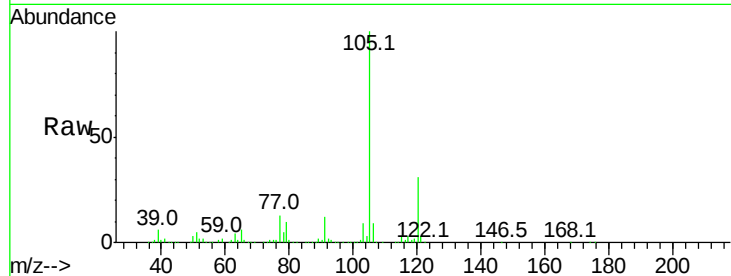
77 13.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/17/2021

Supervised By :Mahesh Dadoda 11/17/2021



#74

1,2,4-Trimethylbenzene

Concen: 9.401 ppbv

RT: 16.75 min Scan# 4342

Delta R.T. -0.01 min

Lab File: VL038039.D

Acq: 16 Nov 2021 14:30

Tgt Ion:105 Resp: 2786917

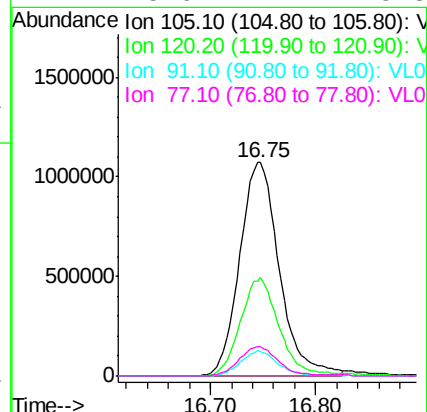
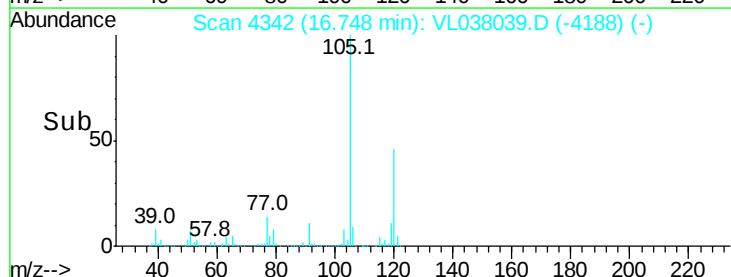
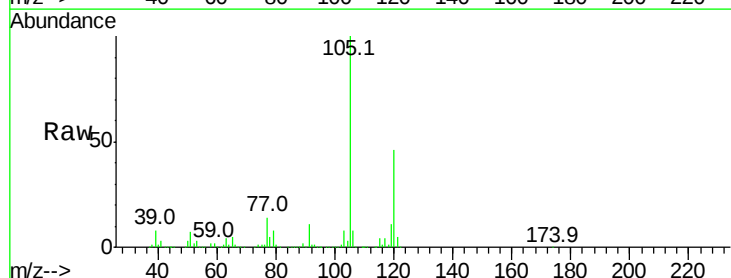
Ion Ratio Lower Upper

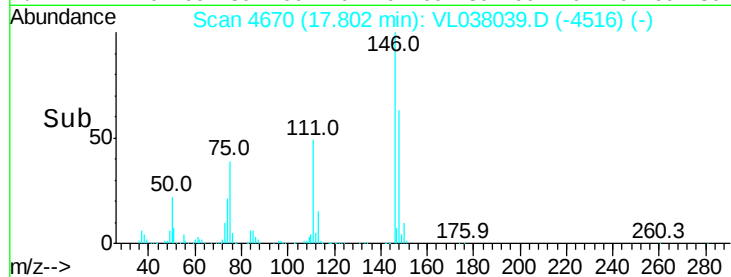
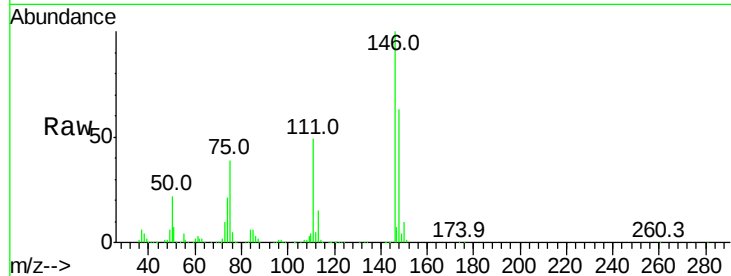
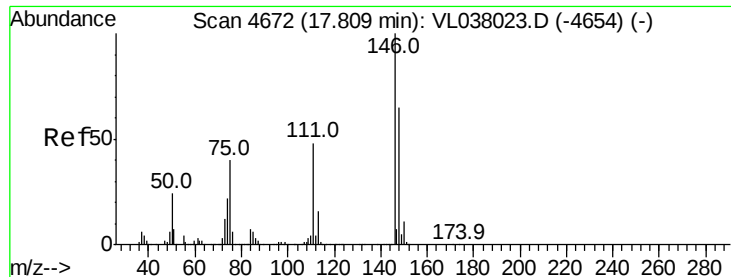
105 100

120 45.9 39.5 59.3

91 11.2 40.9 61.3#

77 13.6 17.2 25.8#





#77

1,2-Dichlorobenzene

Concen: 8.209 ppbv

RT: 17.80

Delta R.T MSVOA\_L

Lab File: ClientSampleId :

E057-1100DL

Acq: 16 Nov 2021 14:30

Tot Ion:1

Ion Rati

146 100

111 49.

148 65.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/17/2021

Supervised By :Mahesh Dadoda 11/17/2021

