

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030222\  
 Data File : VL038489.D  
 Acq On : 2 Mar 2022 19:45  
 Operator : SY/AP  
 Sample : N1724-03 4X  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA L  
 ClientSampleId :  
 SV-3

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/03/2022  
 Supervised By : Mahesh Dadoda 03/07/2022

Quant Time: Mar 02 23:49:10 2022  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022222A  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:  
 QLast Update : Tue Feb 22 19:45:51 2022  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.67  | 49   | 895551   | 10.00 | ppbv  | 0.02     |
| 33) 1,4-Difluorobenzene | 7.18  | 114  | 2442192  | 10.00 | ppbv  | 0.02     |
| 55) Chlorobenzene-d5    | 12.09 | 117  | 2196410  | 10.00 | ppbv  | 0.03     |

## System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.41  | 95    | 2246999  | 12.36    | ppbv | 0.02    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 123.60% |

## Target Compounds

|                            |       |     |          |               | Ovalue |
|----------------------------|-------|-----|----------|---------------|--------|
| 2) Dichlorodifluoromethane | 3.05  | 85  | 18947    | 0.134 ppbv    | 95     |
| 9) Propene                 | 3.03  | 41  | 3045899m | 58.336 ppbv   |        |
| 10) Heptane                | 8.12  | 43  | 327083   | 2.573 ppbv    | 98     |
| 13) Ethanol                | 3.61  | 45  | 198006   | 37.999 ppbv   | 91     |
| 15) Acetone                | 3.85  | 43  | 484986   | 6.368 ppbv #  | 30     |
| 19) Isopropyl Alcohol      | 3.97  | 45  | 94255    | 2.137 ppbv #  | 1      |
| 20) Methylene Chloride     | 4.35  | 84  | 67550    | 1.790 ppbv    | 95     |
| 26) Hexane                 | 5.69  | 57  | 1512996  | 16.329 ppbv # | 43     |
| 27) Carbon Disulfide       | 4.55  | 76  | 26501m   | 0.257 ppbv    |        |
| 29) Chloroform             | 5.76  | 83  | 25716    | 0.170 ppbv #  | 80     |
| 30) Cyclohexane            | 7.14  | 84  | 39221    | 0.518 ppbv #  | 80     |
| 34) 2-Butanone             | 5.25  | 43  | 88400    | 1.151 ppbv #  | 81     |
| 35) Carbon Tetrachloride   | 7.02  | 117 | 112123   | 0.653 ppbv    | 96     |
| 36) Benzene                | 6.89  | 78  | 98715    | 0.459 ppbv    | 91     |
| 52) Tetrachloroethene      | 11.23 | 164 | 79623m   | 1.116 ppbv    |        |
| 53) Toluene                | 9.81  | 91  | 93718    | 0.401 ppbv    | 99     |
| 58) Ethyl Benzene          | 12.71 | 91  | 118741   | 0.395 ppbv    | 96     |
| 59) m/p-Xylene             | 12.96 | 91  | 337500m  | 1.308 ppbv    |        |
| 60) o-Xylene               | 13.69 | 91  | 79870    | 0.328 ppbv    | 97     |
| 62) Isopropylbenzene       | 14.66 | 105 | 91507    | 0.280 ppbv    | 99     |
| 67) sec-Butylbenzene       | 17.29 | 105 | 57939    | 0.144 ppbv    | 98     |

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

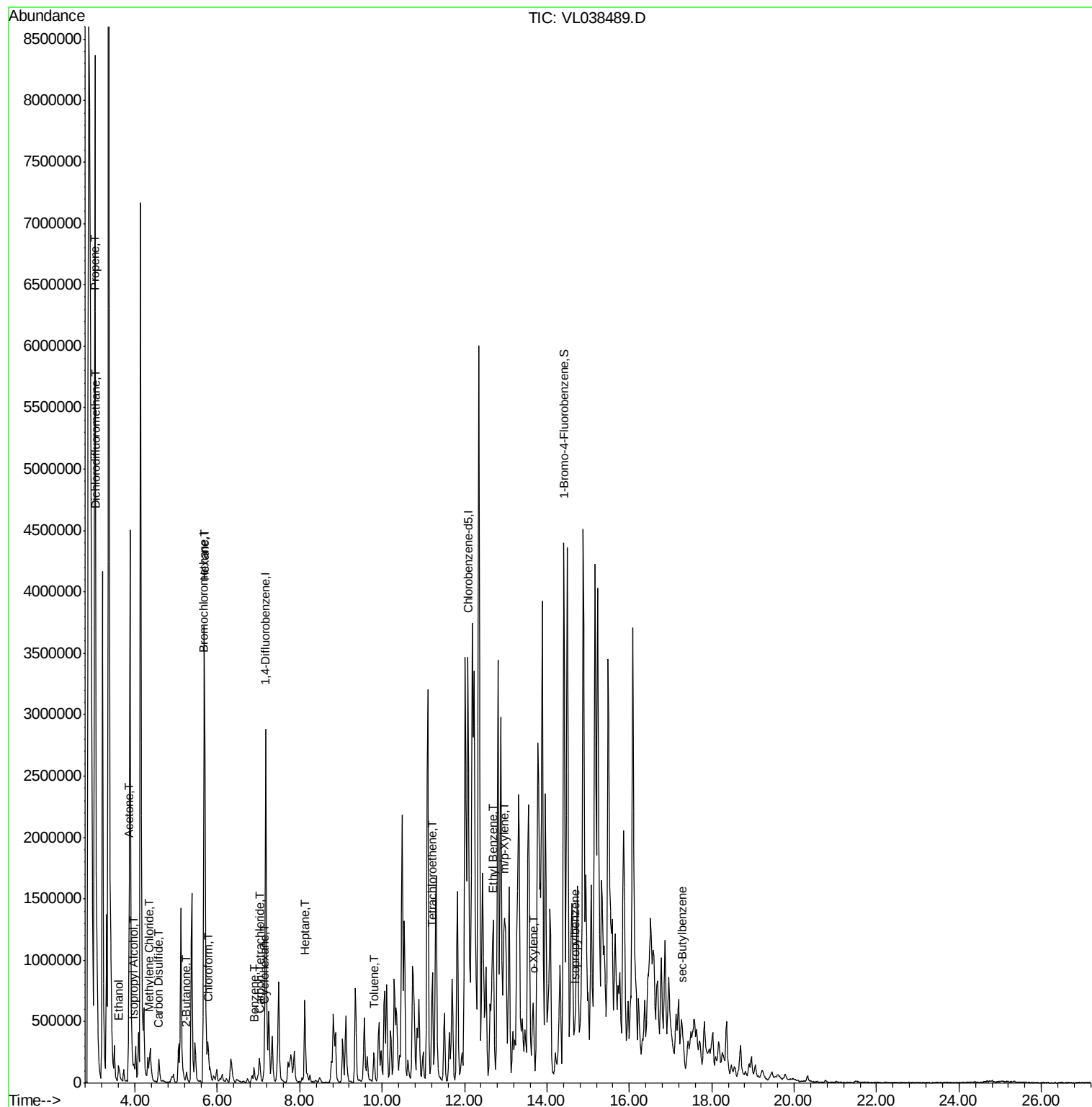
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL030222\  
Data File : VL038489.D  
Acq On : 2 Mar 2022 19:45  
Operator : SY/AP  
Sample : N1724-03 4X  
Misc : 400mL/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

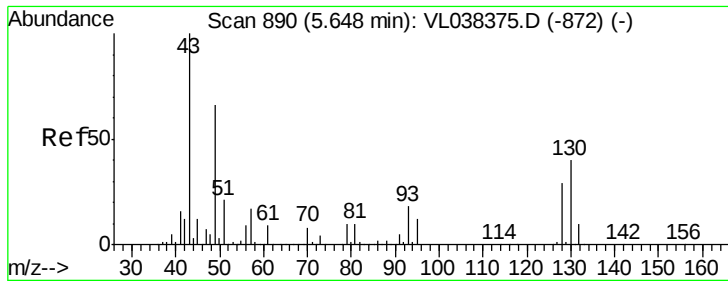
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV-3

Quant Time: Mar 02 23:49:10 2022  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL022222  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:  
QLast Update : Tue Feb 22 19:45:51 2022  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 03/03/2022  
Supervised By :Mahesh Dadoda 03/07/2022





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument: MSVOA\_1

Delta R.T. ClientSampleId:

Lab File: SV-3

Acq: 2 Mar 2022 19:45

Tot Ion:

Ion Ratio

49 100

128 51.

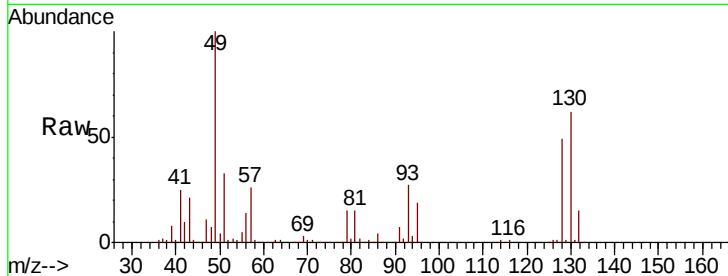
130 65.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/03/2022

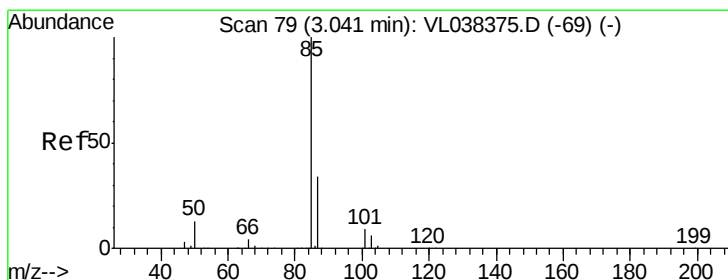
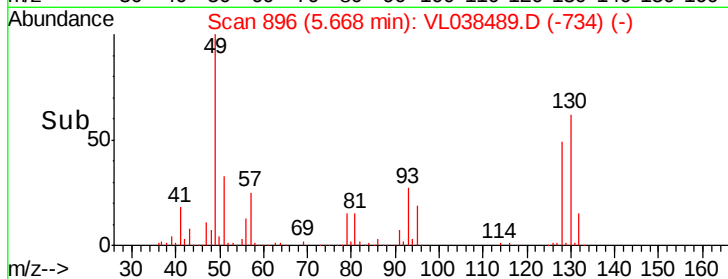
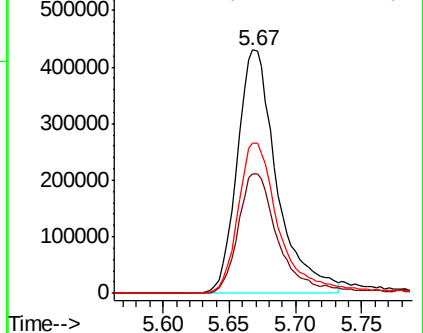
Supervised By :Mahesh Dadoda 03/07/2022



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.134 ppbv

RT: 3.05 min Scan# 83

Delta R.T. 0.01 min

Lab File: VL038489.D

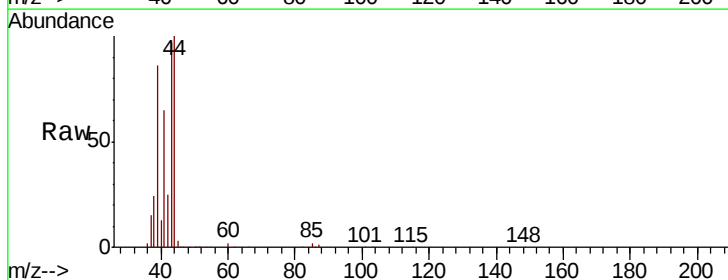
Acq: 2 Mar 2022 19:45

Tgt Ion: 85 Resp: 18947

Ion Ratio Lower Upper

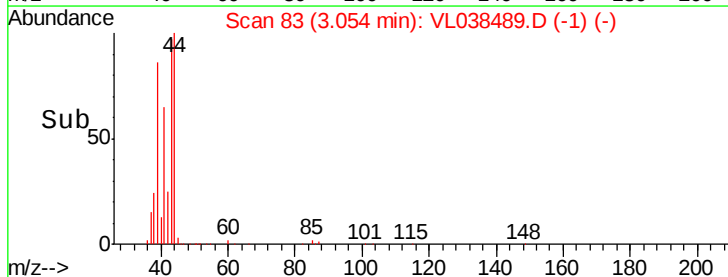
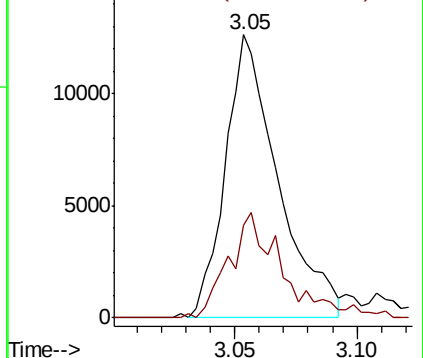
85 100

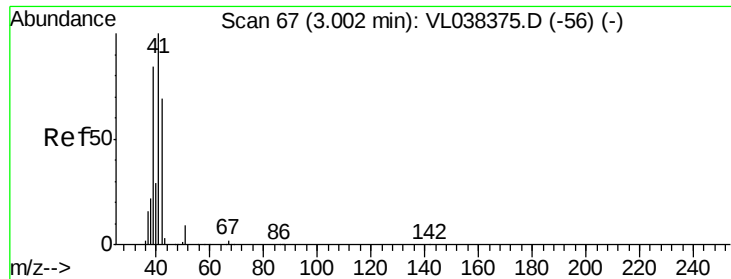
87 31.1 27.4 41.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#9

Propene

Concen: 58.336 ppbv m

RT: 3.03

Delta R.T. MSVOA\_L

Lab File: ClientSampleId :

Acq: 2 Mar 2022 19:45

Tot Ion:

Ion Ratio

41 100

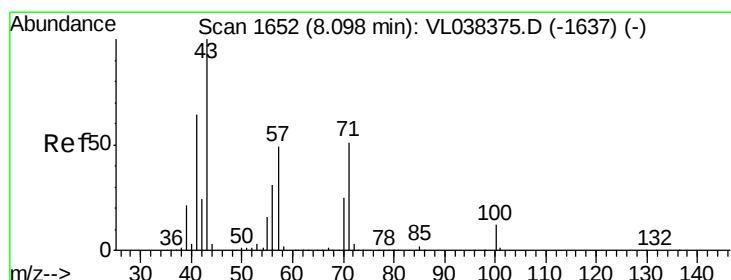
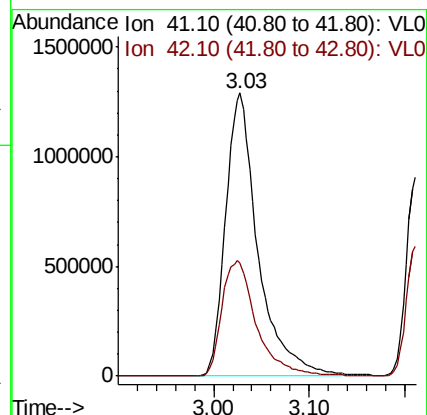
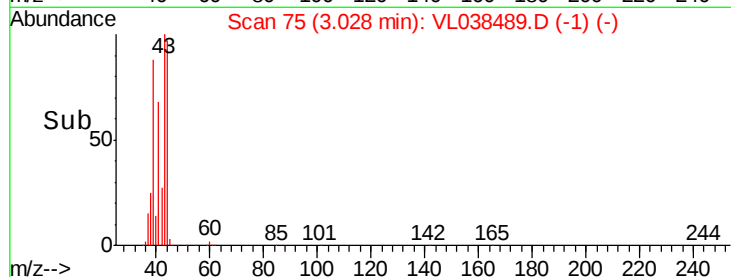
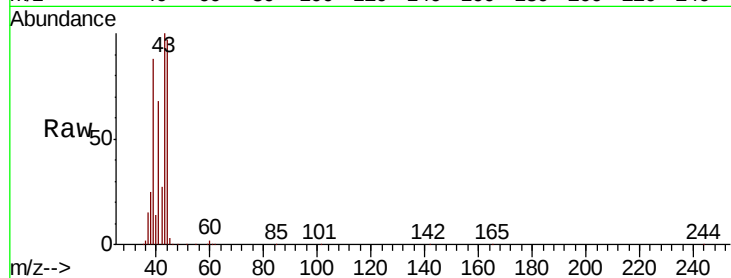
42 33.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/03/2022

Supervised By :Mahesh Dadoda 03/07/2022



#10

Heptane

Concen: 2.573 ppbv

RT: 8.12 min Scan# 1660

Delta R.T. 0.03 min

Lab File: VL038489.D

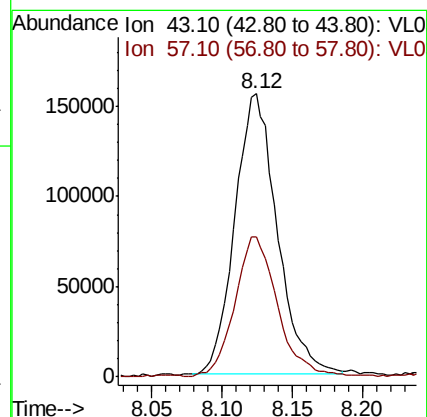
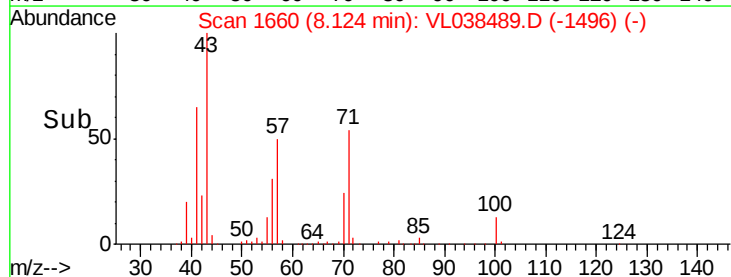
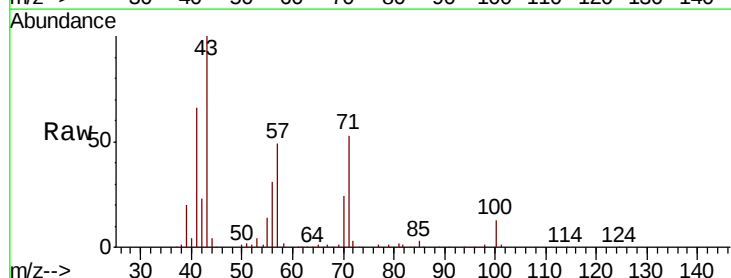
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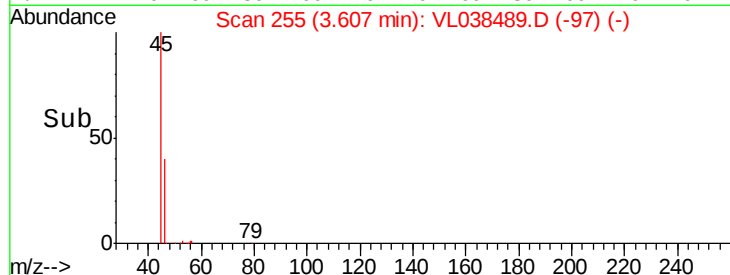
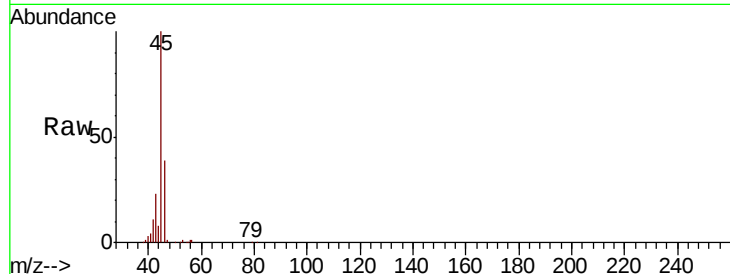
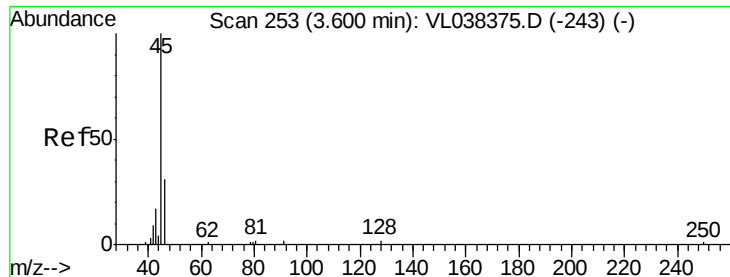
Tgt Ion: 43 Resp: 327083

Ion Ratio Lower Upper

43 100

57 51.4 39.8 59.8



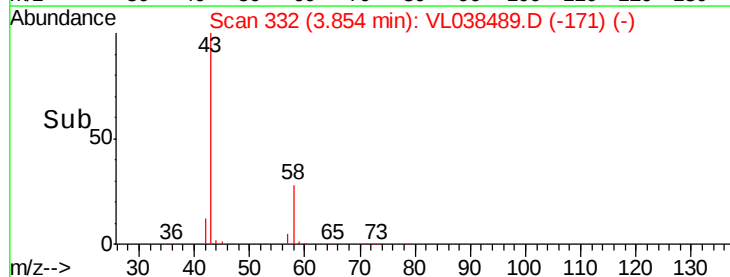
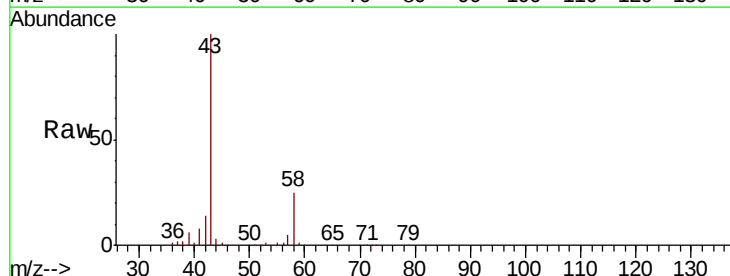
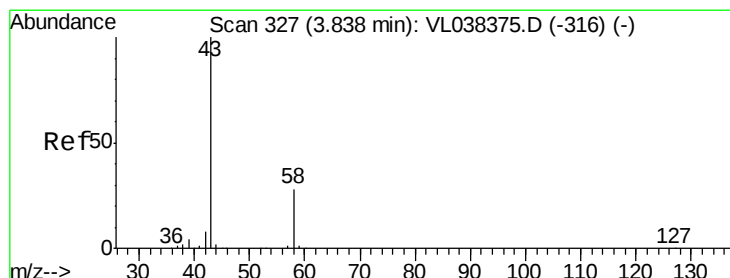
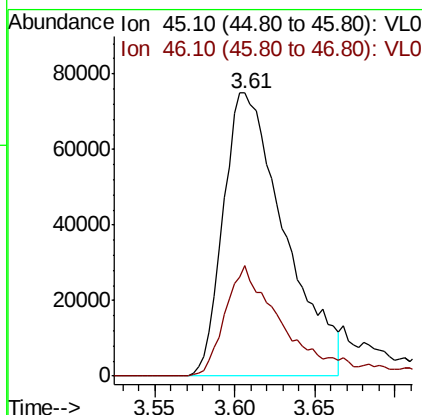


#13  
Ethanol  
Concen: 37.999 ppbv  
RT: 3.61  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId :  
Acq: 2 Mar 2022 19:45

Tot Ion:  
Ion Ratio  
45 100  
46 39.

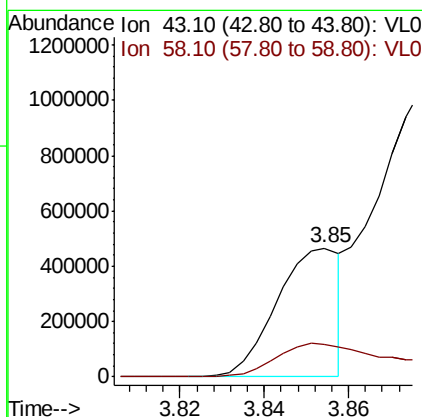
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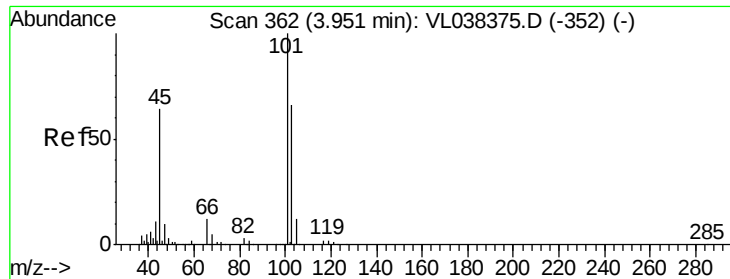
Reviewed By :Semsettin Yesilyurt 03/03/2022  
Supervised By :Mahesh Dadoda 03/07/2022



#15  
Acetone  
Concen: 6.368 ppbv  
RT: 3.85 min Scan# 332  
Delta R.T. 0.02 min  
Lab File: VL038489.D  
Acq: 2 Mar 2022 19:45

Tgt Ion: 43 Resp: 484986  
Ion Ratio Lower Upper  
43 100  
58 63.5 21.7 32.5#



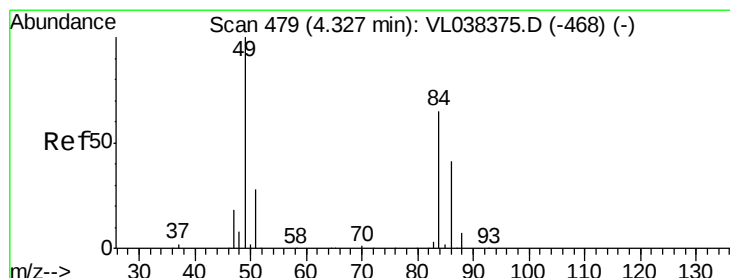
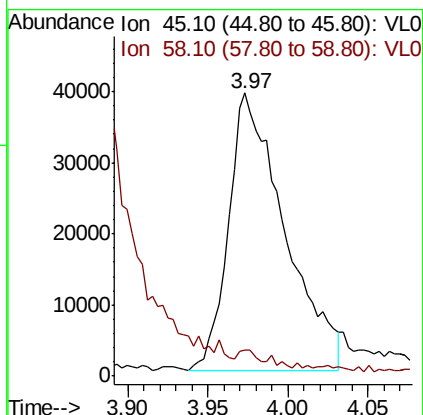
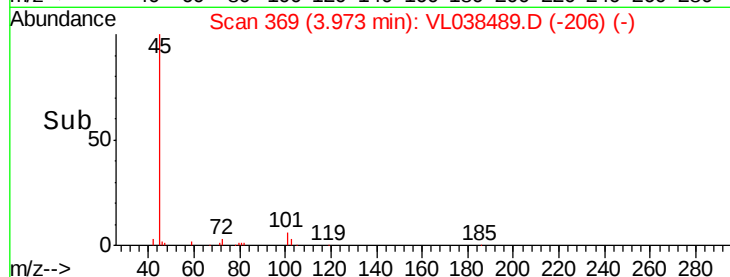
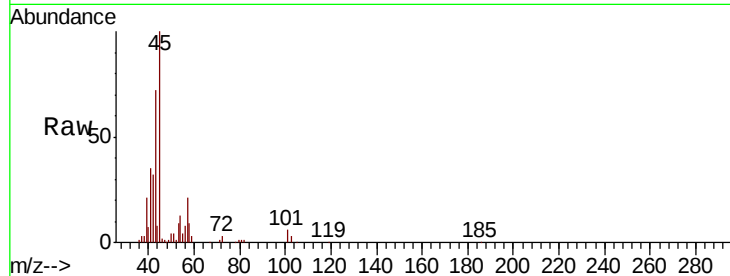


#19  
Isopropyl Alcohol  
Concen: 2.137 ppbv  
RT: 3.97 min  
Instrument: MSVOA\_1  
Delta R.T.:  
Lab File: ClientSampleId :  
Acq: 2 Mar 2022 19:45

Tot Ion:  
Ion Ratio  
45 100  
58 321.

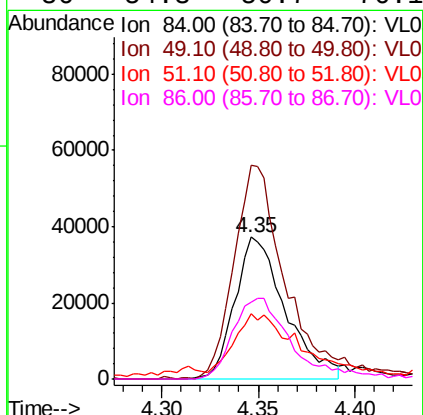
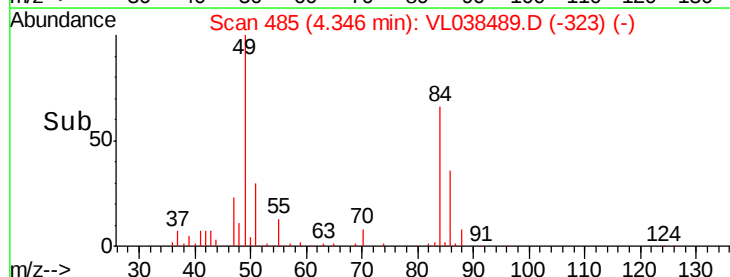
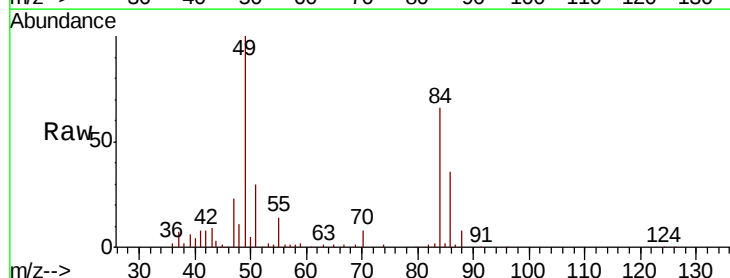
Manual Integrations  
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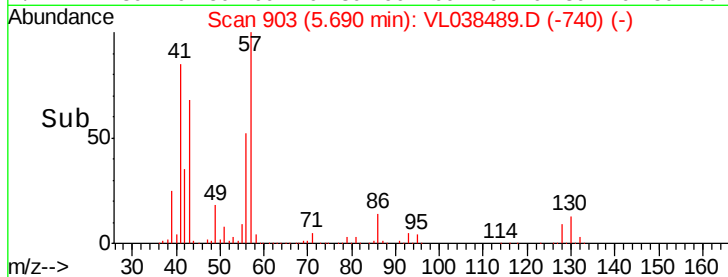
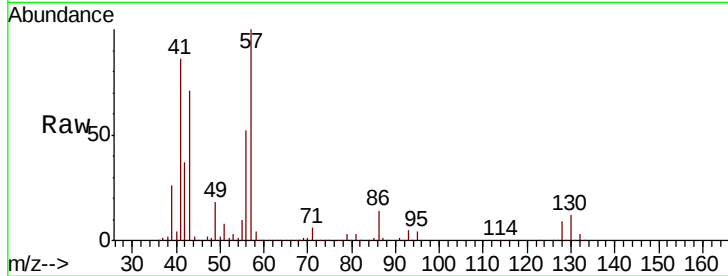
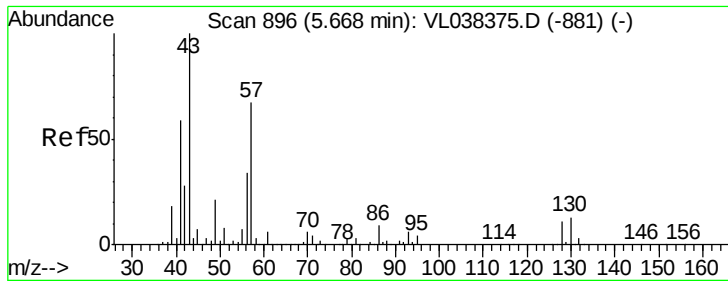
Reviewed By :Semsettin Yesilyurt 03/03/2022  
Supervised By :Mahesh Dadoda 03/07/2022



#20  
Methylene Chloride  
Concen: 1.790 ppbv  
RT: 4.35 min Scan# 485  
Delta R.T.: 0.02 min  
Lab File: VL038489.D  
Acq: 2 Mar 2022 19:45

Tgt Ion: 84 Resp: 67550  
Ion Ratio Lower Upper  
84 100  
49 149.9 122.4 183.6  
51 37.3 33.3 49.9  
86 54.3 50.7 76.1



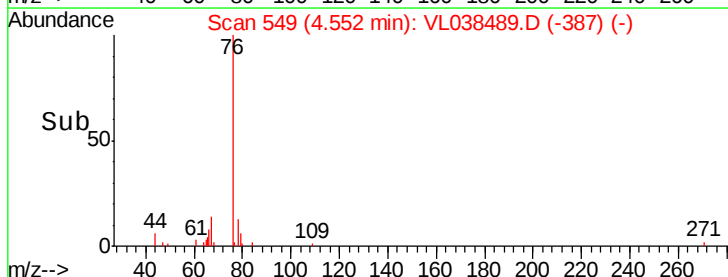
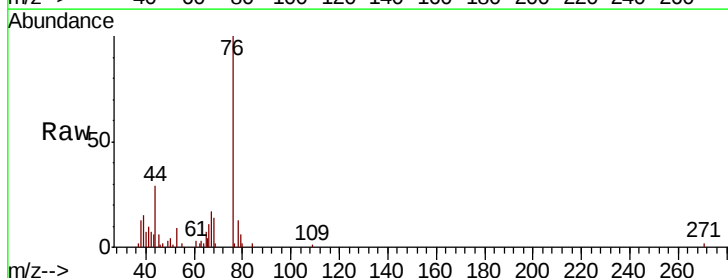
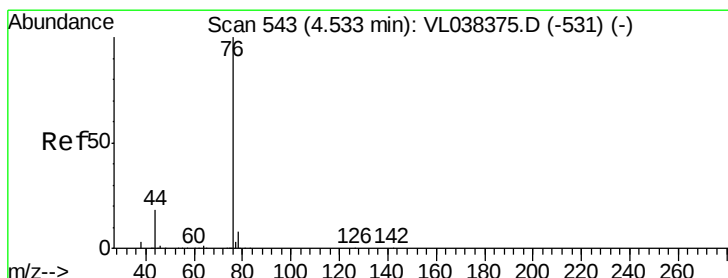
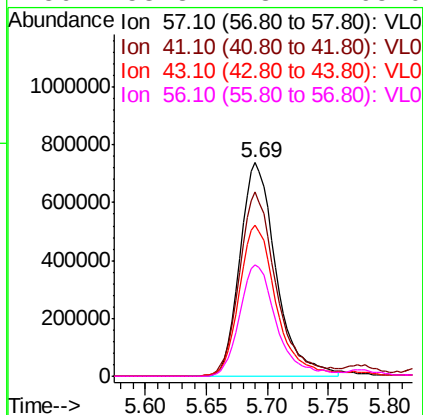


#26  
Hexane  
Concen: 16.329 ppbv  
RT: 5.69  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId :  
Acq: 2 Mar 2022 19:45

Tot Ion:  
Ion Ratio  
57 100  
41 87.  
43 74.  
56 53.3 43.4 65.0

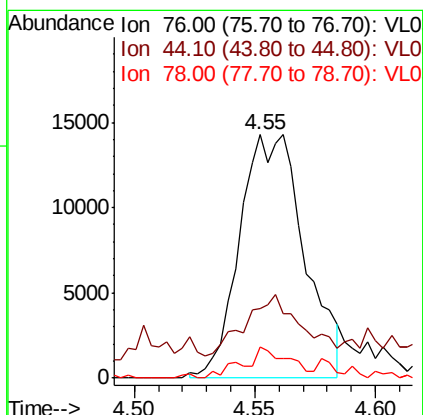
Manual Integrations  
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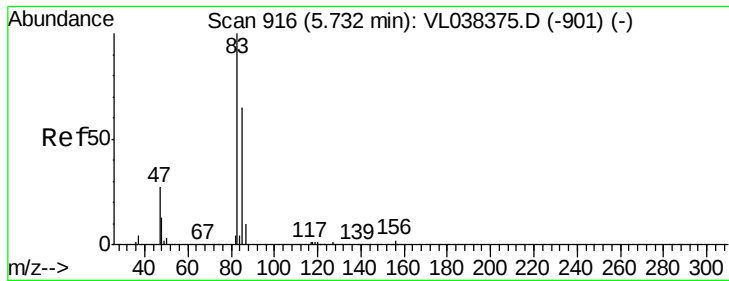
Reviewed By :Semsettin Yesilyurt 03/03/2022  
Supervised By :Mahesh Dadoda 03/07/2022



#27  
Carbon Disulfide  
Concen: 0.257 ppbv m  
RT: 4.55 min Scan# 549  
Delta R.T. 0.02 min  
Lab File: VL038489.D  
Acq: 2 Mar 2022 19:45

Tgt Ion: 76 Resp: 26501  
Ion Ratio Lower Upper  
76 100  
44 0.0 14.2 21.2#  
78 11.9 7.8 11.6#



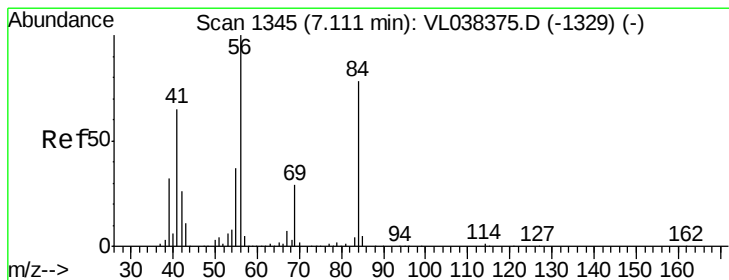
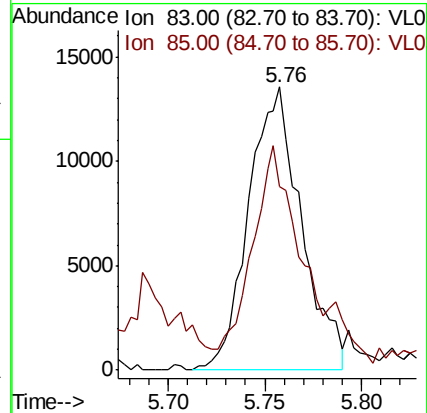
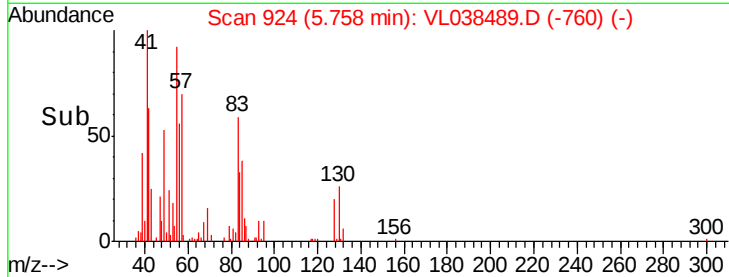
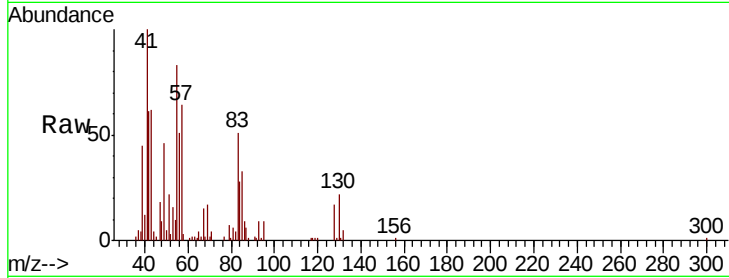


#29  
Chloroform  
Concen: 0.170 ppbv  
RT: 5.76  
Instrument: MSVOA\_L  
Delta R.T.:  
Lab File: ClientSampleId :  
SV-3  
Acq: 2 Mar 2022 19:45

Tot Ion:  
Ion Ratio  
83 100  
85 48.

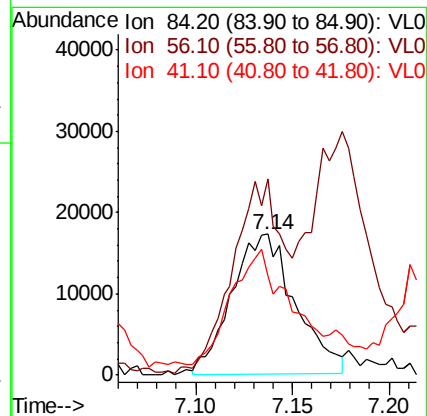
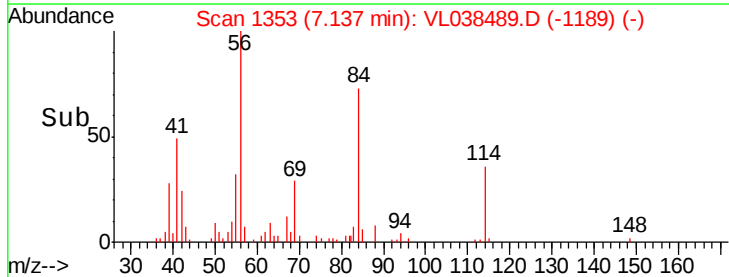
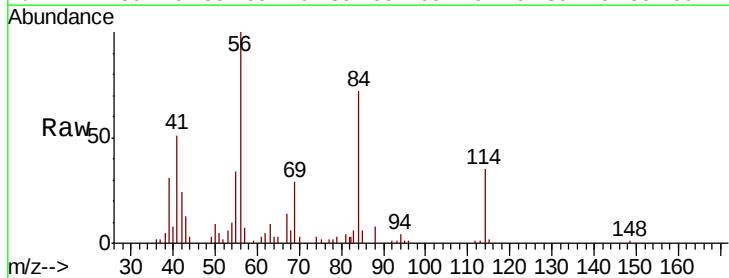
Manual Integrations  
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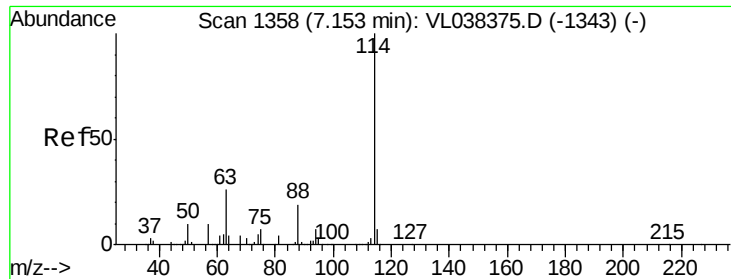
Reviewed By :Semsettin Yesilyurt 03/03/2022  
Supervised By :Mahesh Dadoda 03/07/2022



#30  
Cyclohexane  
Concen: 0.518 ppbv  
RT: 7.14 min Scan# 1353  
Delta R.T. 0.03 min  
Lab File: VL038489.D  
Acq: 2 Mar 2022 19:45

Tgt Ion: 84 Resp: 39221  
Ion Ratio Lower Upper  
84 100  
56 104.4 116.2 174.4#  
41 92.4 74.3 111.5



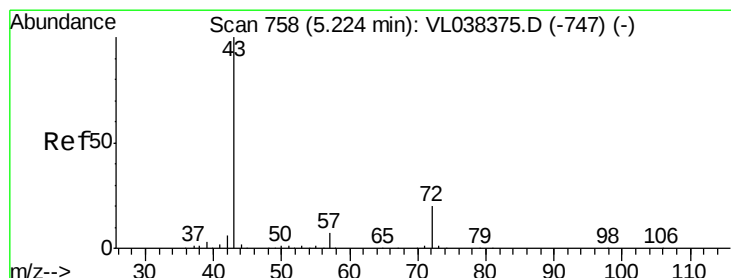
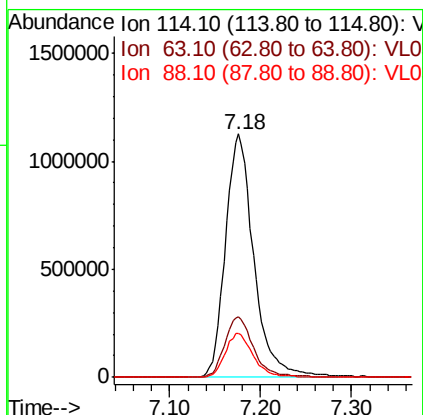
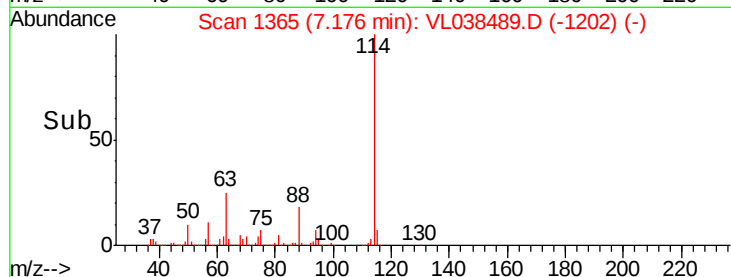
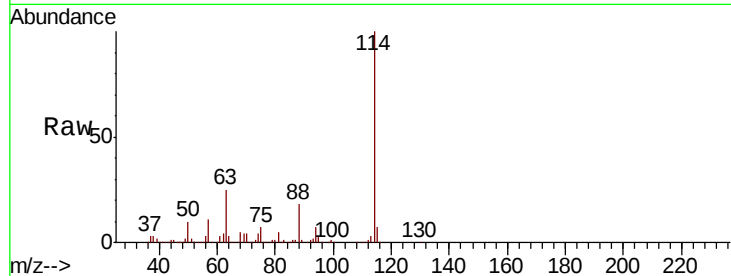


#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.18 min  
 Instrument: MSVOA\_1  
 Delta R.T.:  
 Lab File: ClientSampleId :  
 SV-3  
 Acq: 2 Mar 2022 19:45

Tot Ion: 1  
 Ion Ratio  
 114 100  
 63 25.  
 88 18.

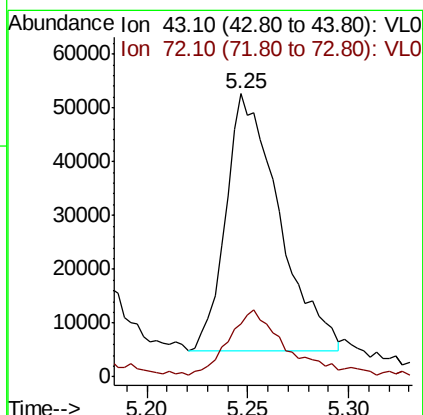
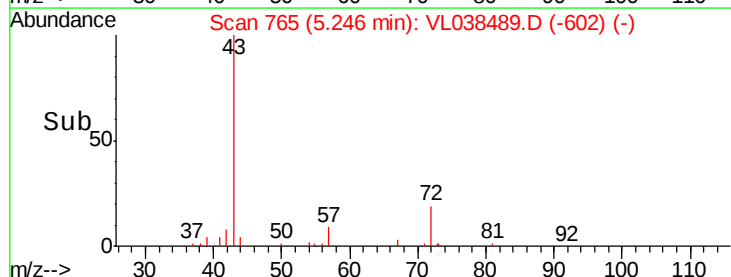
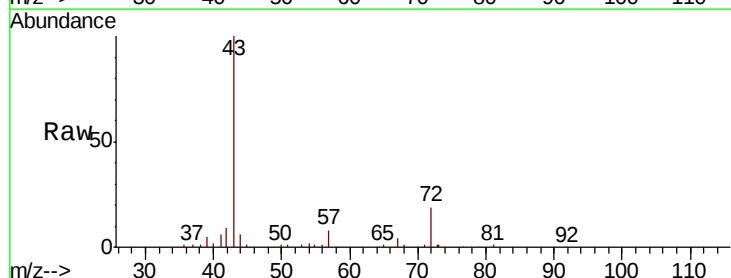
Manual Integrations  
 APPROVED

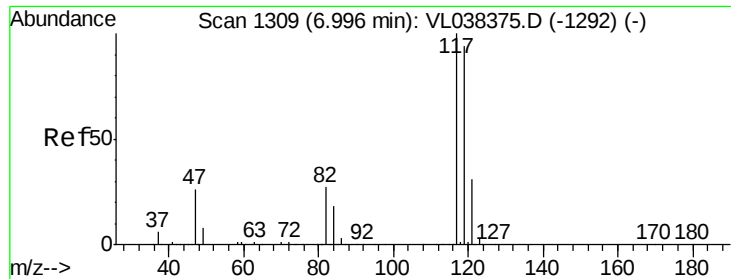
Reviewed By : Semsettin Yesilyurt 03/03/2022  
 Supervised By : Mahesh Dadoda 03/07/2022



#34  
 2-Butanone  
 Concen: 1.151 ppbv  
 RT: 5.25 min Scan# 765  
 Delta R.T.: 0.02 min  
 Lab File: VL038489.D  
 Acq: 2 Mar 2022 19:45

Tgt Ion: 43 Resp: 88400  
 Ion Ratio Lower Upper  
 43 100  
 72 30.6 17.4 26.2#





#35

Carbon Tetrachloride

Concen: 0.653 ppbv

RT: 7.02

Delta R.T. MSVOA\_L

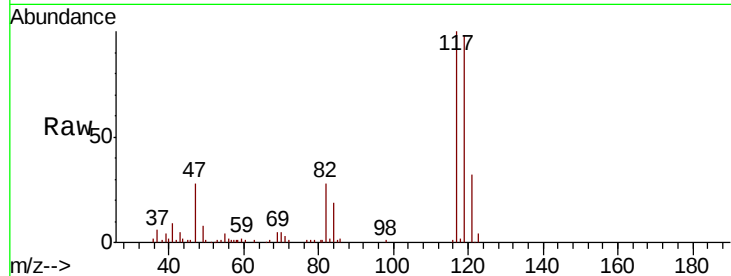
Lab File: ClientSampleId :

Acq: 2 Mar 2022 19:45

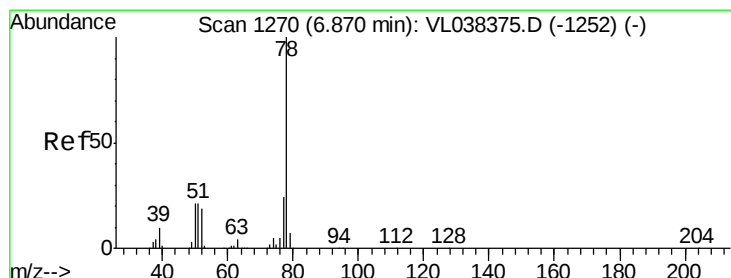
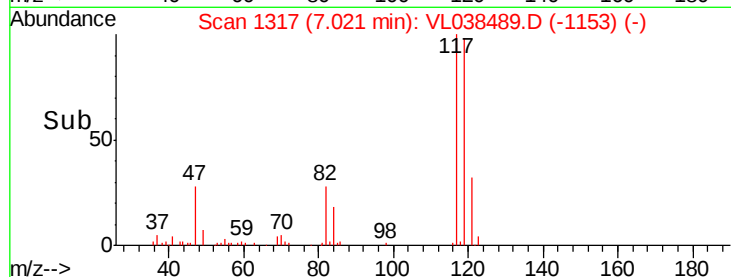
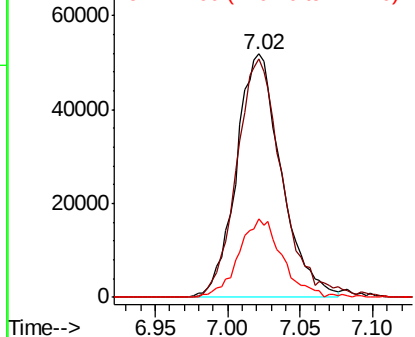
Tot Ion:1  
Ion Rati  
117 100  
119 97.  
121 32.

Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 03/03/2022  
Supervised By :Mahesh Dadoda 03/07/2022



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: 0.459 ppbv

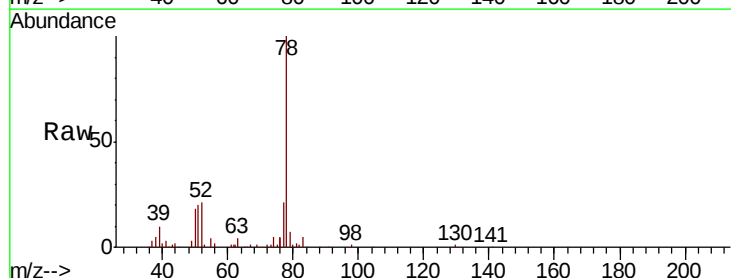
RT: 6.89 min Scan# 1277

Delta R.T. 0.02 min

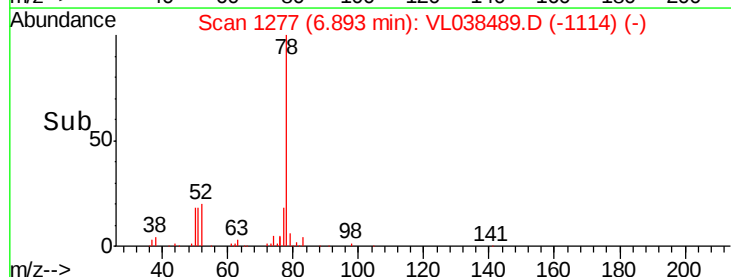
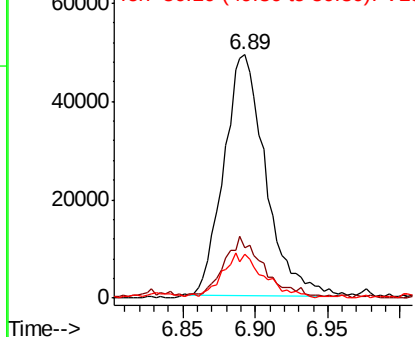
Lab File: VL038489.D

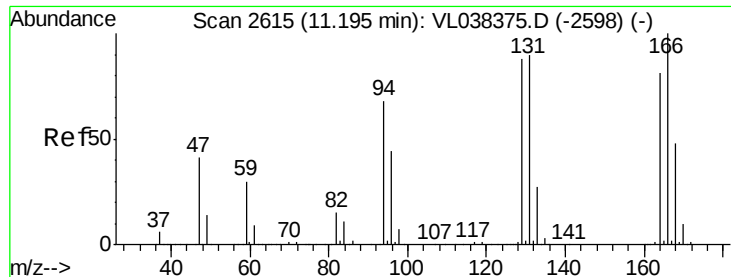
Acq: 2 Mar 2022 19:45

Tgt Ion: 78 Resp: 98715  
Ion Ratio Lower Upper  
78 100  
77 19.4 19.0 28.6  
50 17.0 16.6 24.8



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





#52

Tetrachloroethene

Concen: 1.116 ppbv m

RT: 11.23

Delta R.T. MSVOA\_L

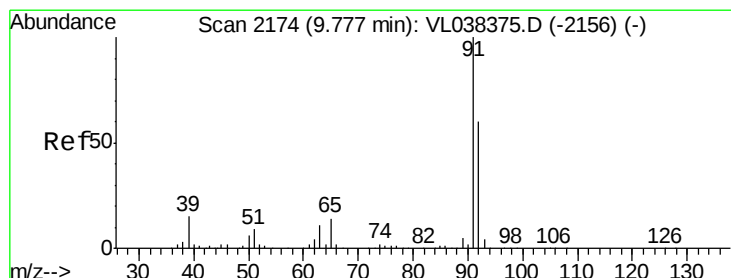
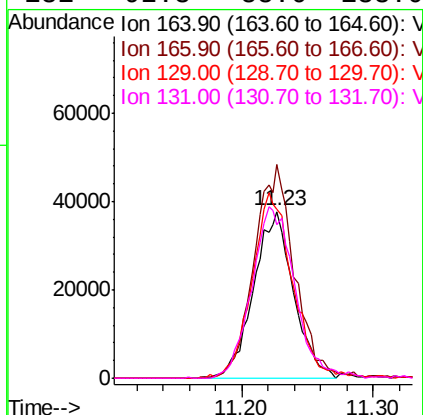
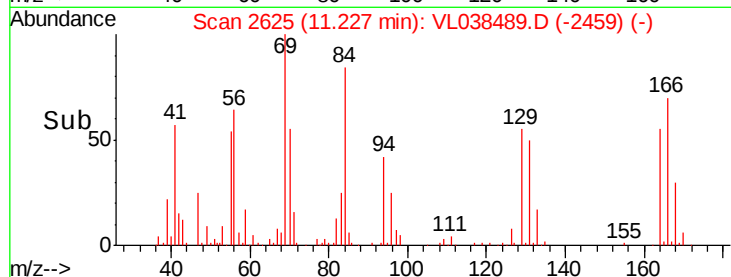
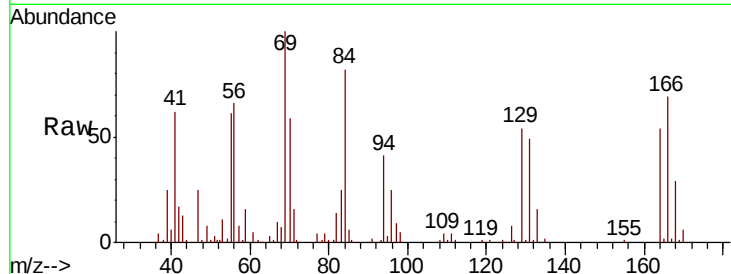
Lab File: ClientSampleId :

Acq: 2 Mar 2022 19:45

Tot Ion:1  
Ion Ratio  
164 100  
166 128.  
129 101.  
131 92.3 88.6 133.0

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 03/03/2022  
Supervised By :Mahesh Dadoda 03/07/2022



#53

Toluene

Concen: 0.401 ppbv

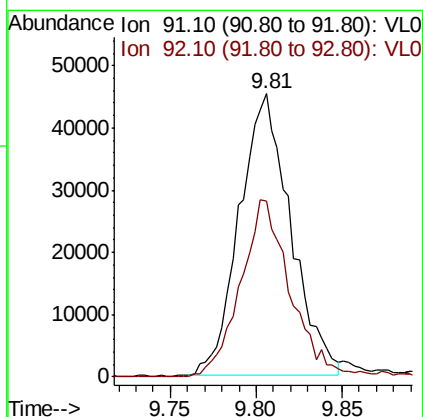
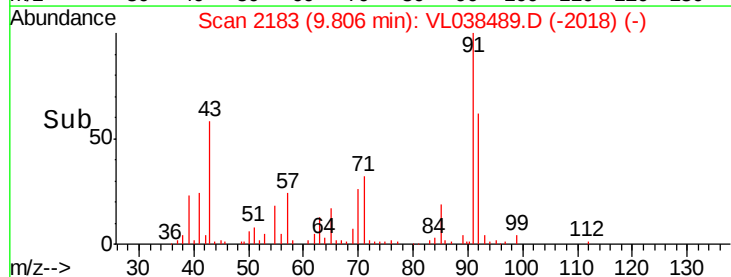
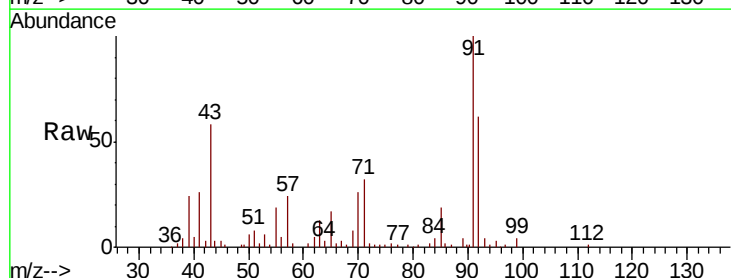
RT: 9.81 min Scan# 2183

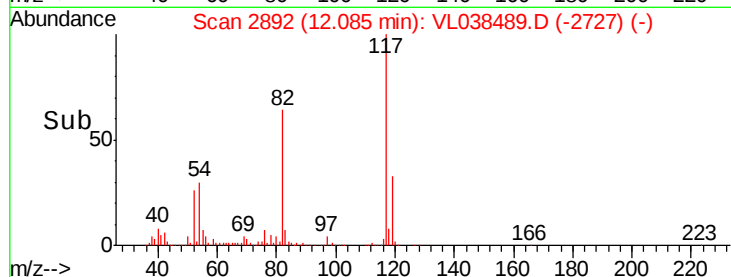
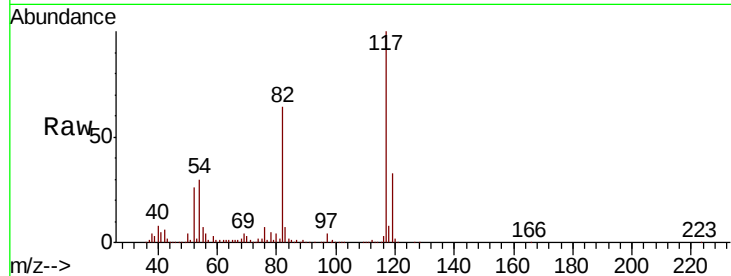
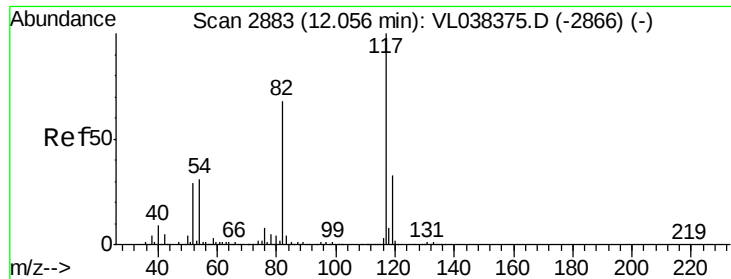
Delta R.T. 0.03 min

Lab File: VL038489.D

Acq: 2 Mar 2022 19:45

Tgt Ion: 91 Resp: 93718  
Ion Ratio Lower Upper  
91 100  
92 60.7 48.2 72.4



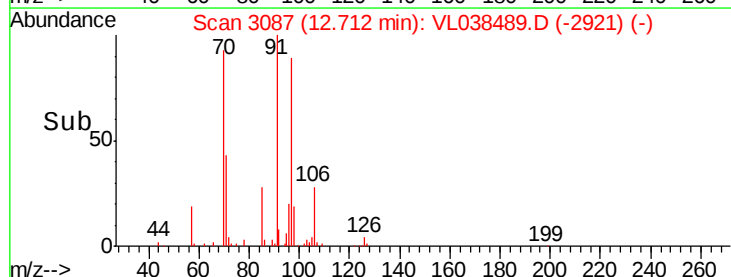
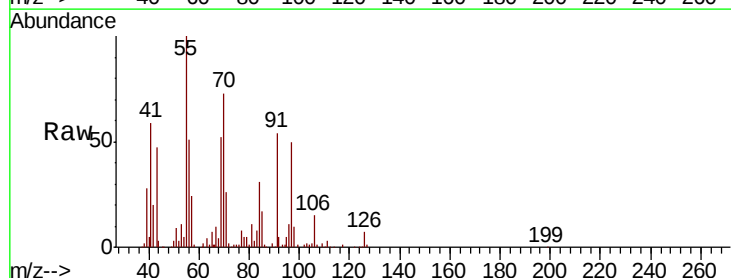
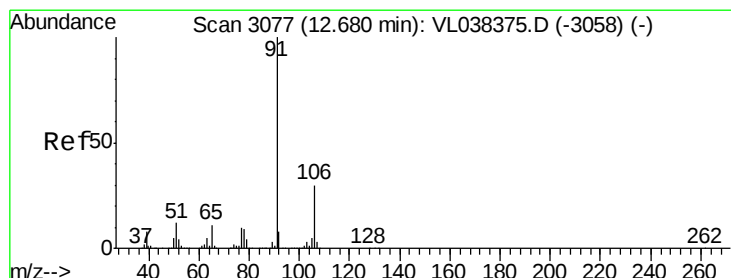
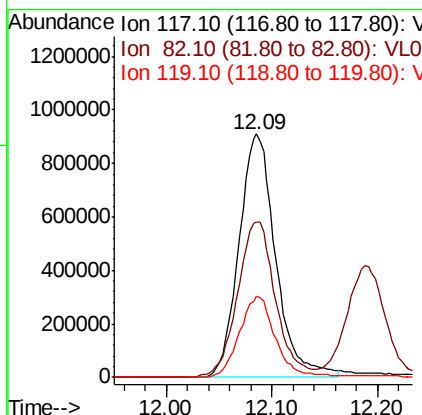


#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.09  
Instrument: MSVOA\_L  
Delta R.T.:  
Lab File: ClientSampleId:  
SV-3  
Acq: 2 Mar 2022 19:45

Tot Ion: 1  
Ion Ratio  
117 100  
82 66.  
119 33.

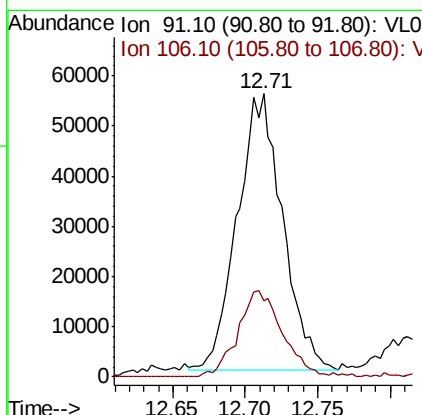
Manual Integrations  
APPROVED

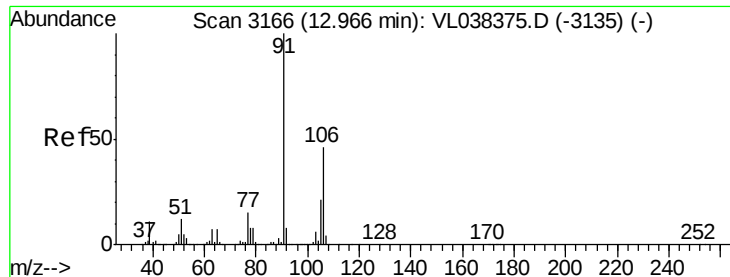
Reviewed By :Semsettin Yesilyurt 03/03/2022  
Supervised By :Mahesh Dadoda 03/07/2022



#58  
Ethyl Benzene  
Concen: 0.395 ppbv  
RT: 12.71 min Scan# 3087  
Delta R.T. 0.03 min  
Lab File: VL038489.D  
Acq: 2 Mar 2022 19:45

Tgt Ion: 91 Resp: 118741  
Ion Ratio Lower Upper  
91 100  
106 27.6 24.0 36.0



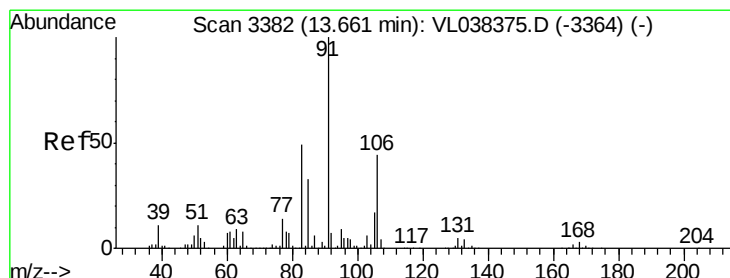
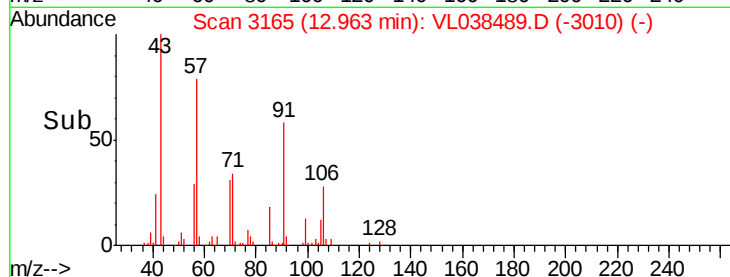
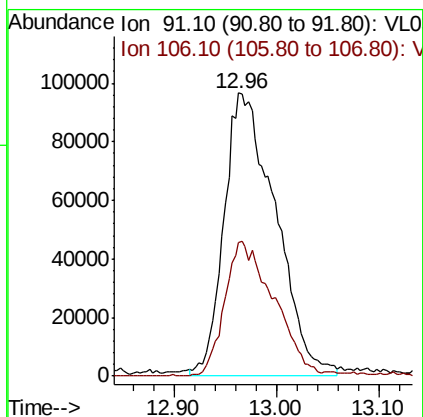
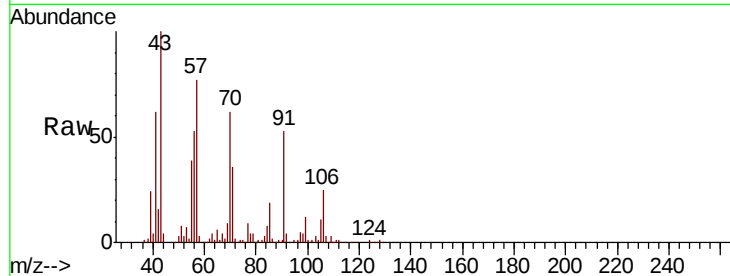


#59  
m/p-Xylene  
Concen: 1.308 ppbv m  
RT: 12.96  
Delta R.T. MSVOA\_L  
Lab File: ClientSampled :  
Acq: 2 Mar 2022 19:45

Tot Ion:  
Ion Ratio  
91 100  
106 46.

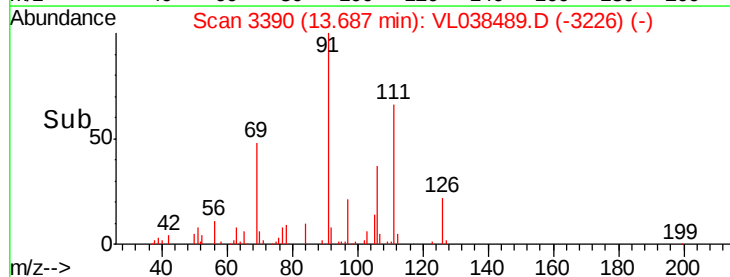
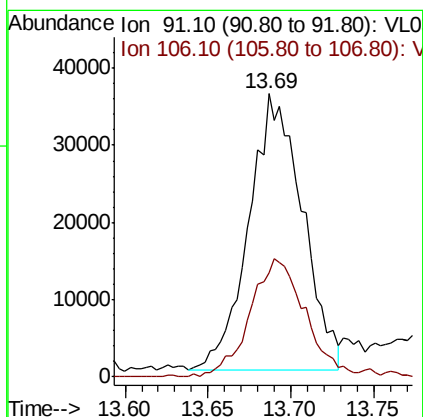
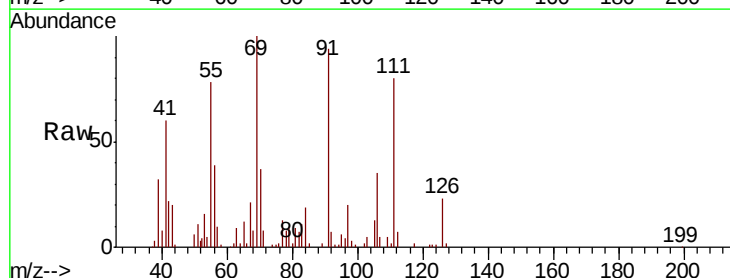
Manual Integrations  
APPROVED

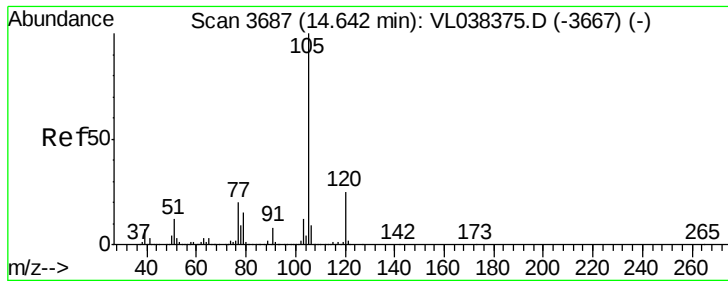
Reviewed By :Semsettin Yesilyurt 03/03/2022  
Supervised By :Mahesh Dadoda 03/07/2022



#60  
o-Xylene  
Concen: 0.328 ppbv  
RT: 13.69 min Scan# 3390  
Delta R.T. 0.03 min  
Lab File: VL038489.D  
Acq: 2 Mar 2022 19:45

Tgt Ion: 91 Resp: 79870  
Ion Ratio Lower Upper  
91 100  
106 45.7 21.9 65.5





#62

Isopropylbenzene

Concen: 0.280 ppbv

RT: 14.66

Delta R.T. MSVOA\_L

Lab File: ClientSampleId :

Acq: 2 Mar 2022 19:45

Tot Ion:1

Ion Rati

105 100

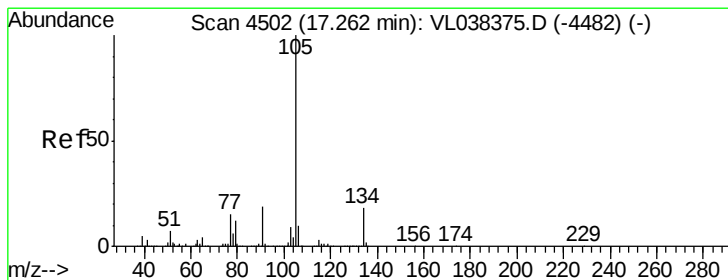
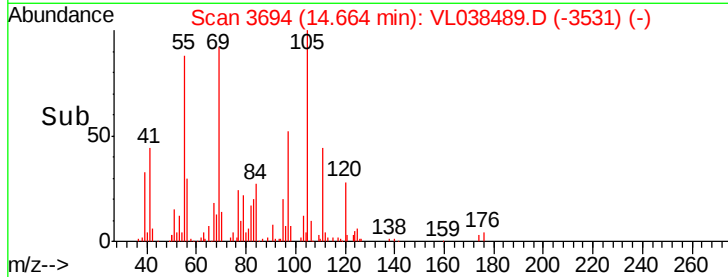
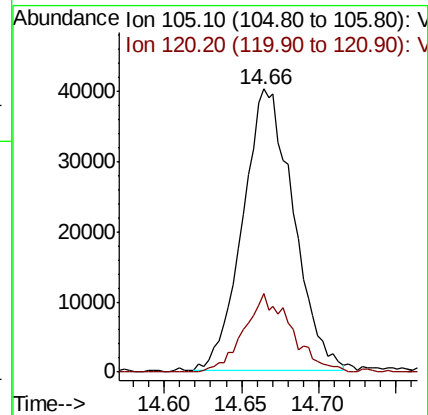
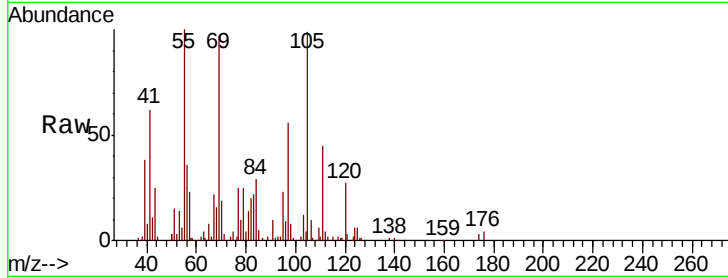
120 26.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/03/2022

Supervised By :Mahesh Dadoda 03/07/2022



#67

sec-Butylbenzene

Concen: 0.144 ppbv

RT: 17.29 min Scan# 4512

Delta R.T. 0.03 min

Lab File: VL038489.D

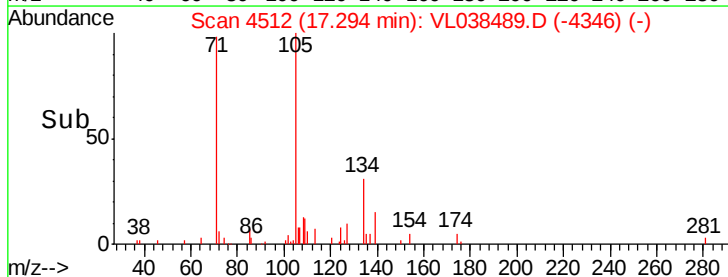
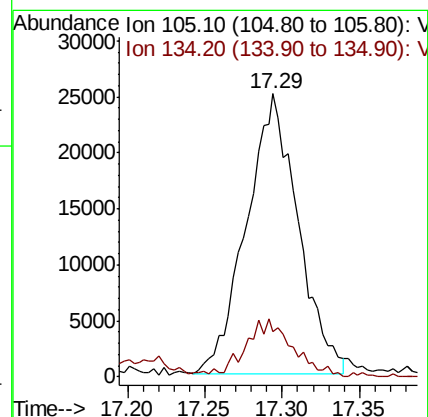
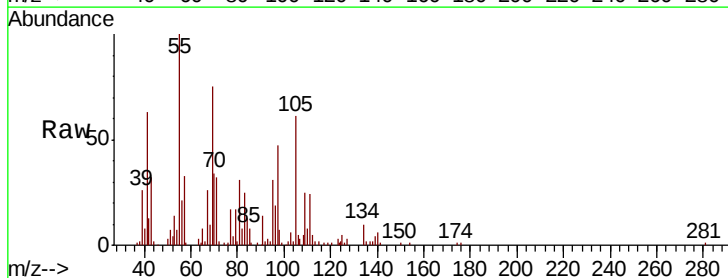
Acq: 2 Mar 2022 19:45

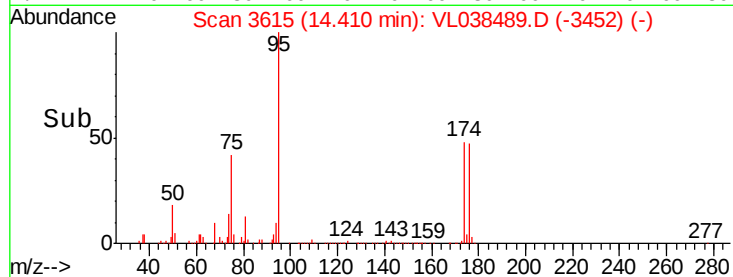
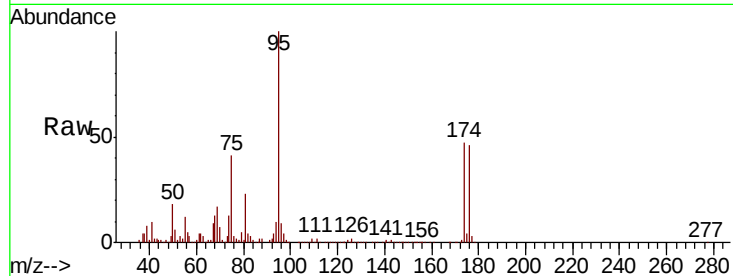
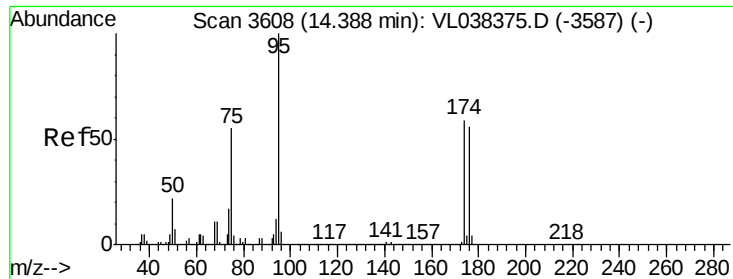
Tgt Ion:105 Resp: 57939

Ion Ratio Lower Upper

105 100

134 18.9 14.6 21.8





#68

1-Bromo-4-Fluorobenzene

Concen: 12.364 ppbv

RT: 14.41 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

SV-3

Acq: 2 Mar 2022 19:45

Tot Ion:

Ion Ratio

95 100

174 50.

175 3.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/03/2022

Supervised By :Mahesh Dadoda 03/07/2022

