

Data File : VL034996.D  
Acq On : 12 May 2020 20:58  
Operator : SY/AP  
Sample : L2567-04DL2 40X  
Misc : 400ml/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-1DL2

Manual Integrations  
APPROVED

MMDadoda  
5/18/2020 2:08:28 PM

Quant Time: May 14 13:53:13 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL050620AIR.M  
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_LWed May 0  
QLast Update : Wed May 06 14:49:39 2020  
Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.65  | 49   | 1058202  | 10.00 | ppbv  | -0.02    |
| 33) 1,4-Difluorobenzene | 7.17  | 114  | 2498835  | 10.00 | ppbv  | -0.02    |
| 55) Chlorobenzene-d5    | 12.10 | 117  | 2325927  | 10.00 | ppbv  | -0.02    |

System Monitoring Compounds  
68) 1-Bromo-4-Fluorobenzene 14.44 95 1899337 10.09 ppbv -0.02  
Spiked Amount 10.000 Range 65 - 135 Recovery = 100.90%

| Target Compounds           | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|----------------------------|-------|------|----------|--------|--------|--------|
| 9) Propene                 | 2.98  | 41   | 82224m   | 1.568  | ppbv   |        |
| 10) Heptane                | 8.12  | 43   | 100556   | 0.766  | ppbv   | 94     |
| 13) Ethanol                | 3.57  | 45   | 252561   | 14.599 | ppbv   | 99     |
| 15) Acetone                | 3.81  | 43   | 984419m  | 7.037  | ppbv   |        |
| 26) Hexane                 | 5.67  | 57   | 203609   | 1.999  | ppbv # | 43     |
| 30) Cyclohexane            | 7.13  | 84   | 46920m   | 0.597  | ppbv   |        |
| 36) Benzene                | 6.88  | 78   | 107353m  | 0.521  | ppbv   |        |
| 44) 2,2,4-Trimethylpentane | 7.86  | 57   | 183110   | 0.500  | ppbv # | 81     |
| 53) Toluene                | 9.81  | 91   | 1122801  | 5.141  | ppbv   | 99     |
| 58) Ethyl Benzene          | 12.73 | 91   | 127779   | 0.444  | ppbv   | 94     |
| 59) m/p-Xylene             | 12.98 | 91   | 476074   | 1.881  | ppbv # | 57     |
| 60) o-Xylene               | 13.71 | 91   | 165932   | 0.664  | ppbv   | 99     |
| 74) 1,2,4-Trimethylbenzene | 16.79 | 105  | 137503   | 0.465  | ppbv # | 76     |

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

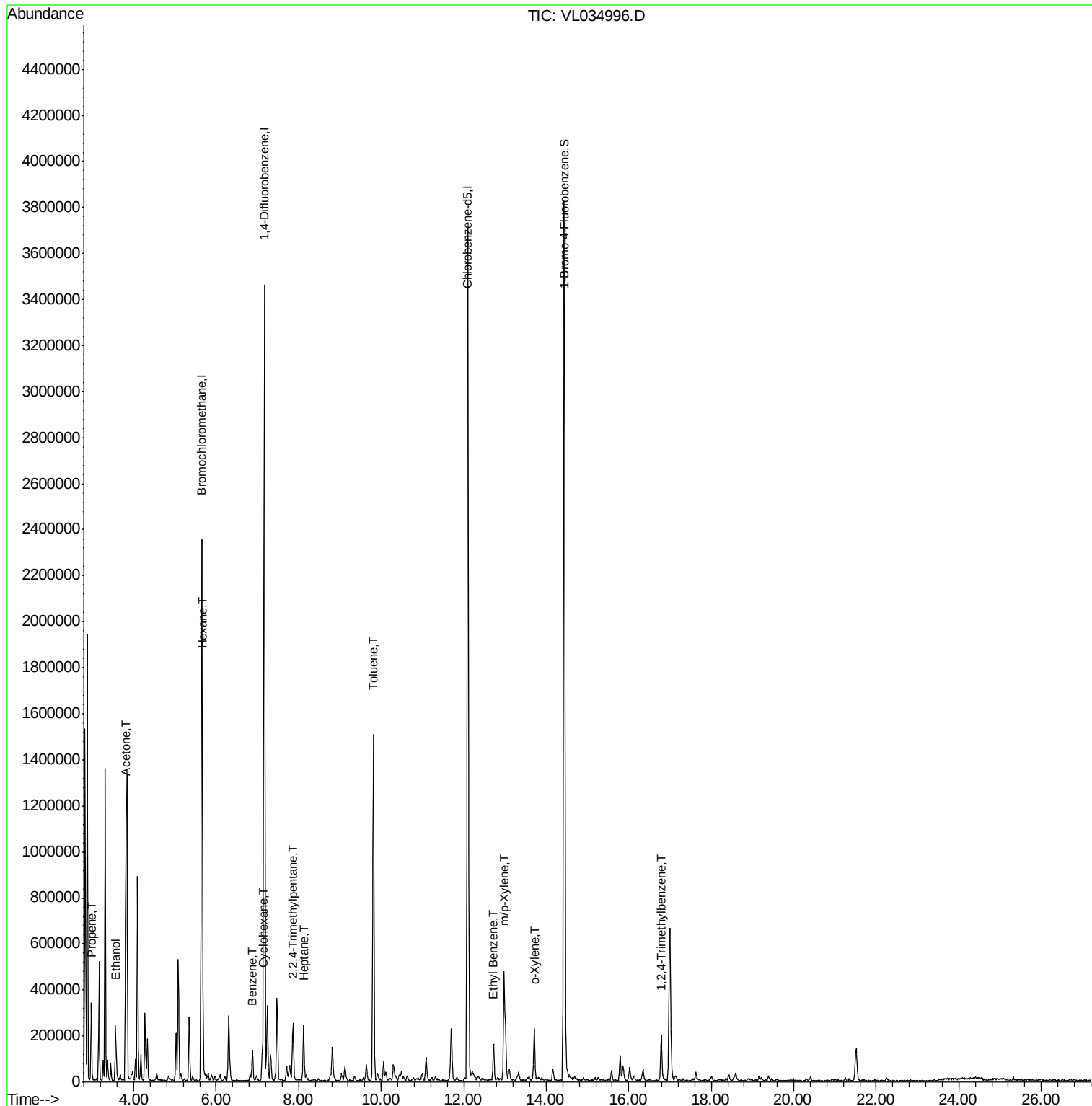
Data File : VL034996.D  
Acq On : 12 May 2020 20:58  
Operator : SY/AP  
Sample : L2567-04DL2 40X  
Misc : 400ml/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

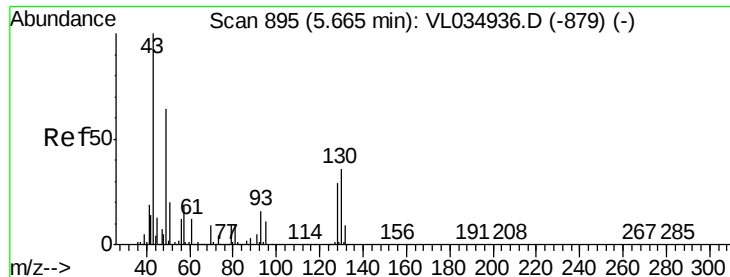
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-1DL2

Manual Integrations  
APPROVED

MMDadoda  
5/18/2020 2:08:28 PM

Quant Time: May 14 13:53:13 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL050620AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Wed May  
QLast Update : Wed May 06 14:49:39 2020  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 889

Delta R.T. -0.02 min

Lab File: VL034996.D

Acq: 12 May 2020 20:58

Instrument :

MSVOA\_L

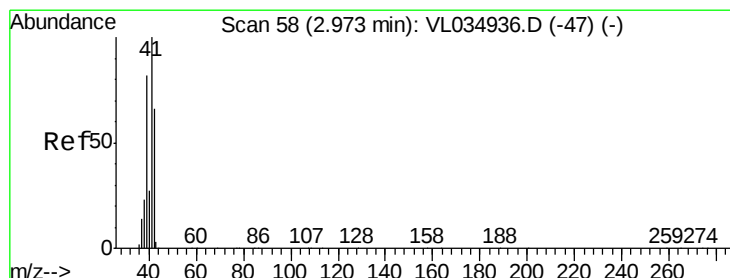
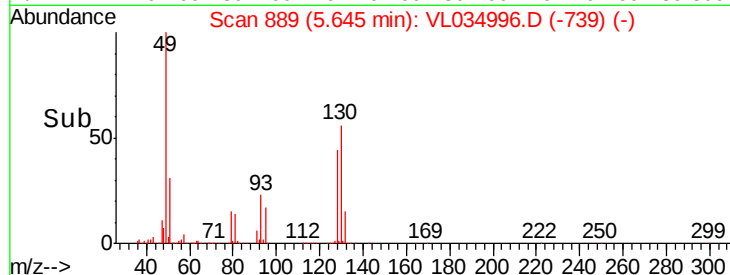
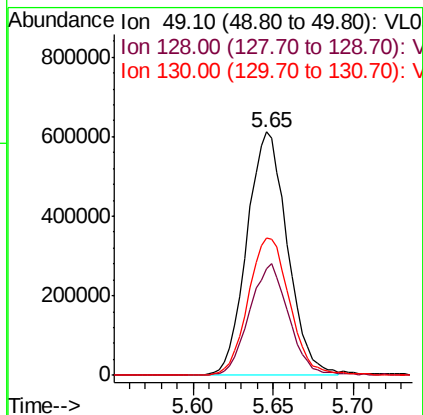
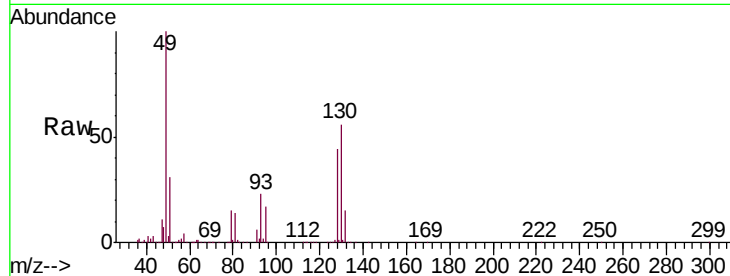
ClientSampled :

IA-1DL2

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 49    | Resp: | 1058202 |
| Ion      | Ratio | Lower | Upper   |
| 49       | 100   |       |         |
| 128      | 44.6  | 22.1  | 66.5    |
| 130      | 58.3  | 29.1  | 87.3    |

Manual Integrations  
APPROVED

MMDadoda  
5/18/2020 2:08:28 PM



#9

Propene

Concen: 1.568 ppbv m

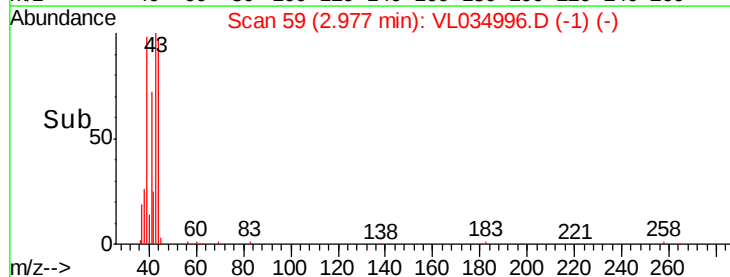
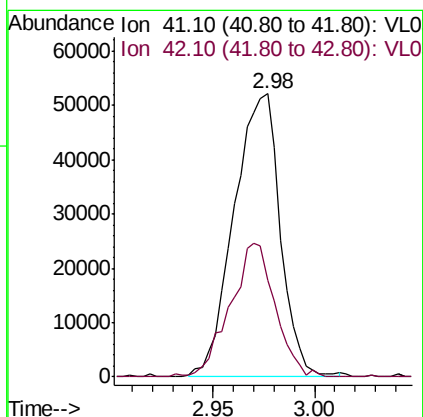
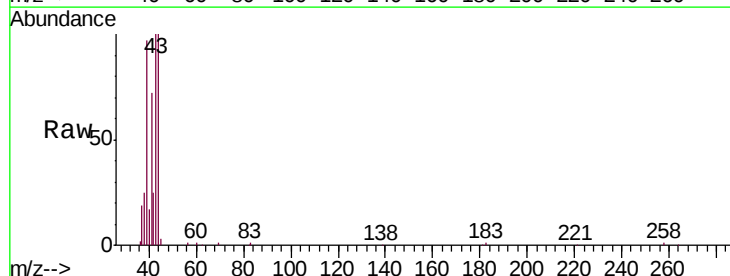
RT: 2.98 min Scan# 59

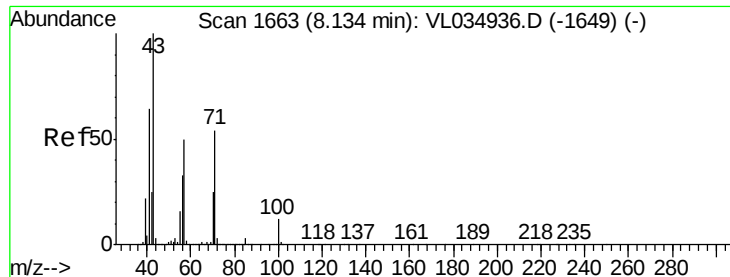
Delta R.T. 0.00 min

Lab File: VL034996.D

Acq: 12 May 2020 20:58

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 82224 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 42       | 110.6 | 54.5  | 81.7# |





#10

Heptane

Concen: 0.766 ppbv

RT: 8.12 min Scan# 1658

Delta R.T. -0.02 min

Lab File: VL034996.D

Acq: 12 May 2020 20:58

Instrument :

MSVOA\_L

ClientSampleId :

IA-1DL2

Tgt Ion: 43 Resp: 100556

Ion Ratio Lower Upper

43 100

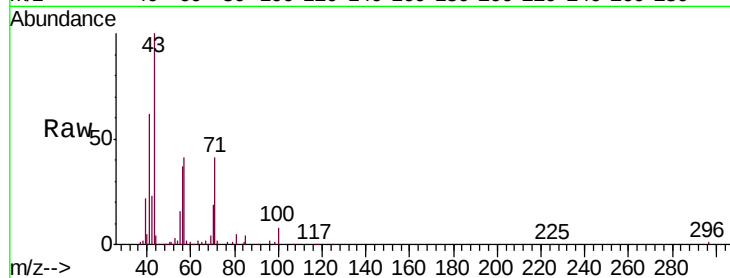
57 47.0 41.1 61.7

Manual Integrations

APPROVED

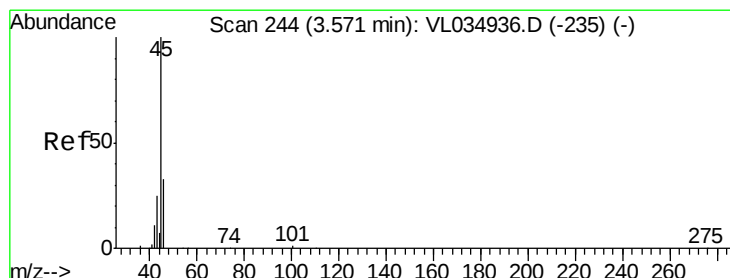
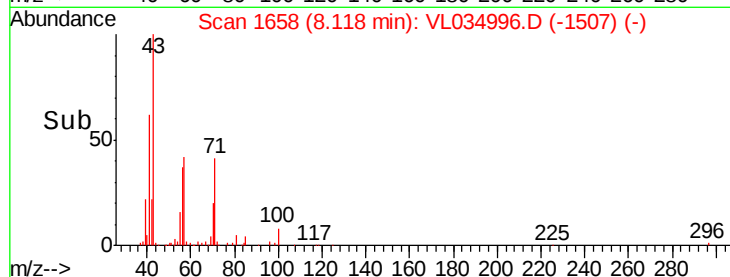
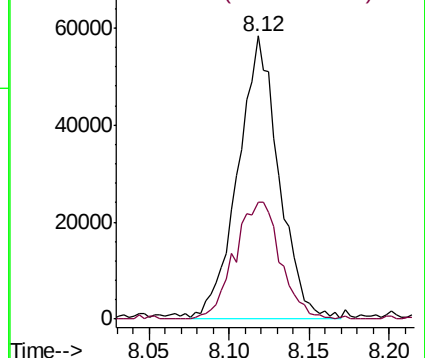
MMDadoda

5/18/2020 2:08:28 PM



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#13

Ethanol

Concen: 14.599 ppbv

RT: 3.57 min Scan# 242

Delta R.T. -0.01 min

Lab File: VL034996.D

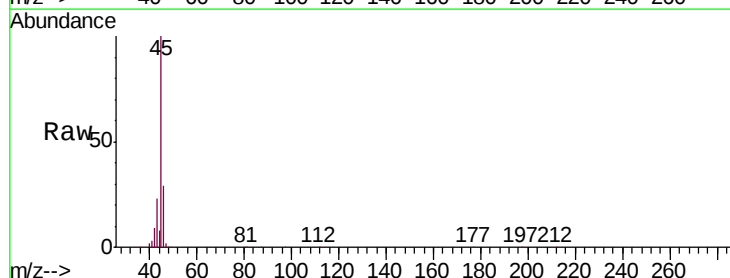
Acq: 12 May 2020 20:58

Tgt Ion: 45 Resp: 252561

Ion Ratio Lower Upper

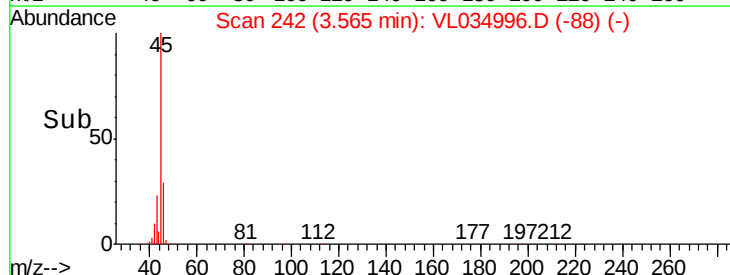
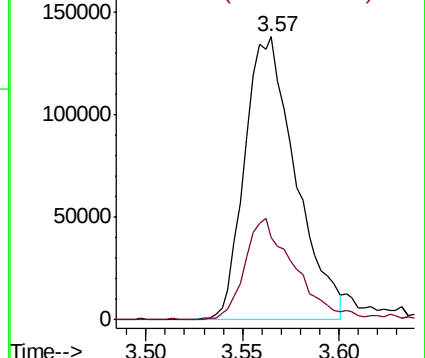
45 100

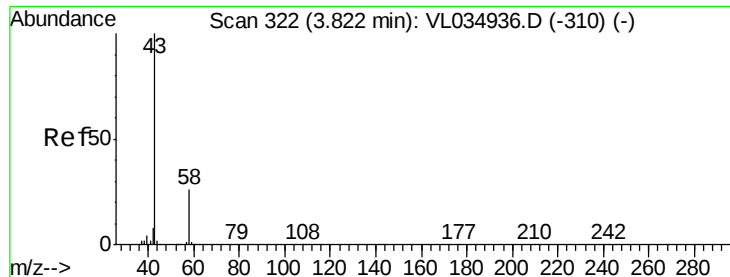
46 36.5 14.3 57.3



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 7.037 ppbv m

RT: 3.81 min Scan# 318

Delta R.T. -0.01 min

Lab File: VL034996.D

Acq: 12 May 2020 20:58

Instrument :

MSVOA\_L

ClientSampleId :

IA-1DL2

Tgt Ion: 43 Resp: 984419

Ion Ratio Lower Upper

43 100

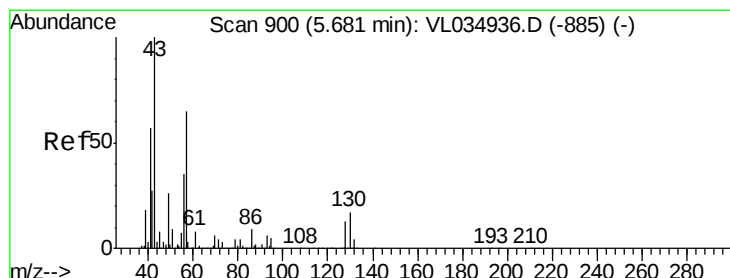
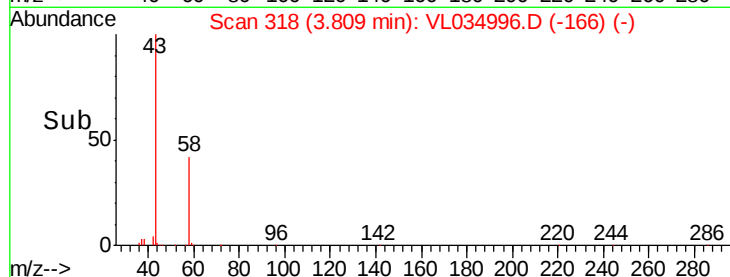
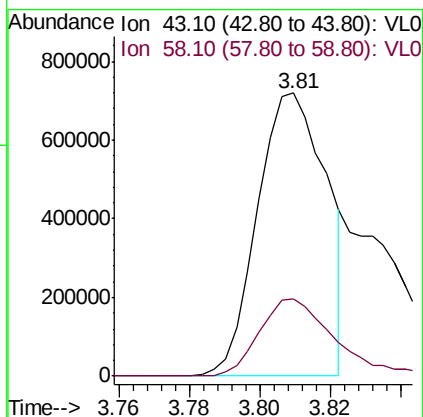
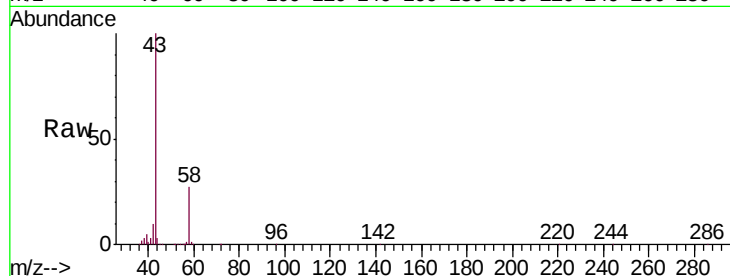
58 30.4 21.7 32.5

Manual Integrations

APPROVED

MMDadoda

5/18/2020 2:08:28 PM



#26

Hexane

Concen: 1.999 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.01 min

Lab File: VL034996.D

Acq: 12 May 2020 20:58

Tgt Ion: 57 Resp: 203609

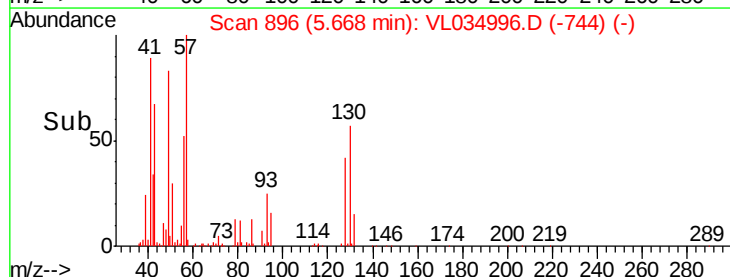
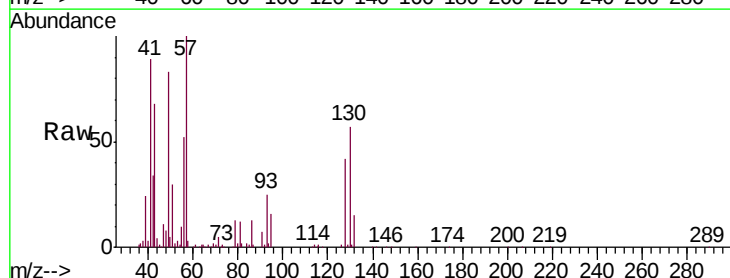
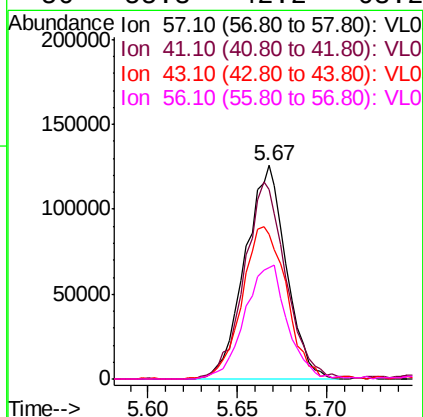
Ion Ratio Lower Upper

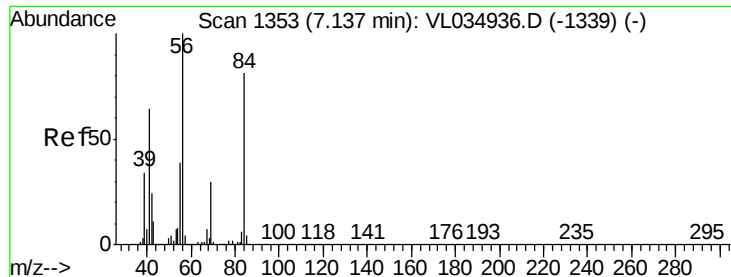
57 100

41 93.4 72.7 109.1

43 76.9 182.1 273.1#

56 55.3 42.2 63.2





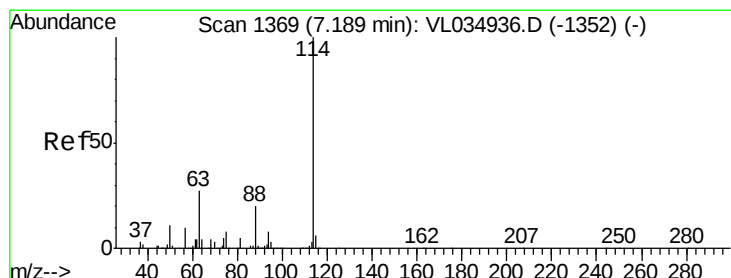
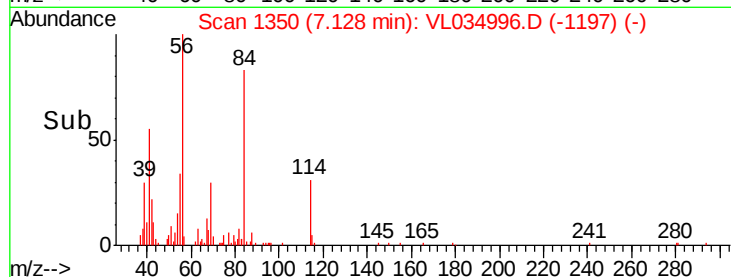
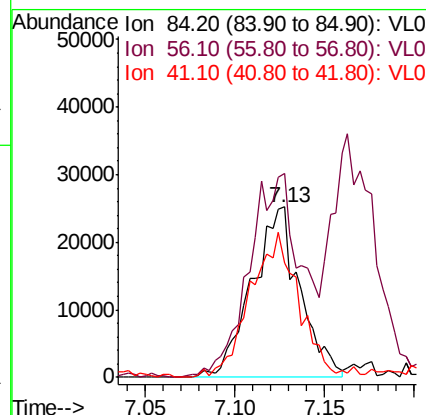
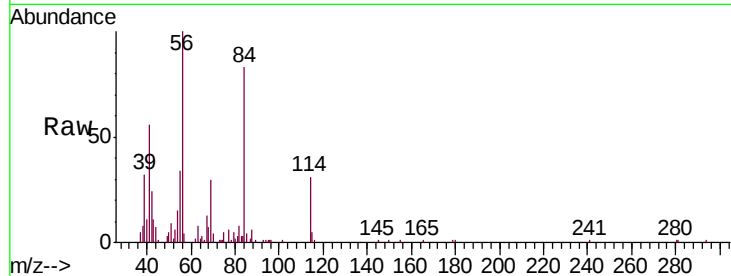
#30  
Cyclohexane  
Concen: 0.597 ppbv m  
RT: 7.13 min Scan# 1350  
Delta R.T. -0.01 min  
Lab File: VL034996.D  
Acq: 12 May 2020 20:58

Instrument :  
MSVOA\_L  
ClientSampled :  
IA-1DL2

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 84      | 100   |       |        |
| 56      | 0.0   | 111.4 | 167.2# |
| 41      | 0.0   | 66.7  | 100.1# |

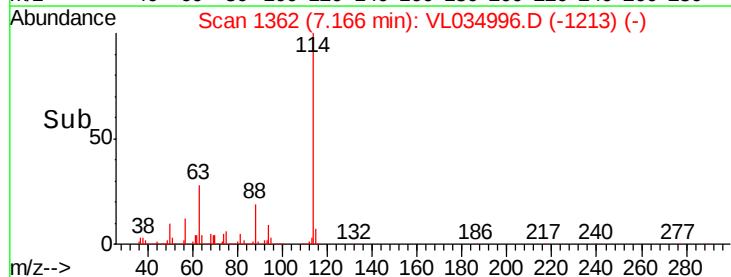
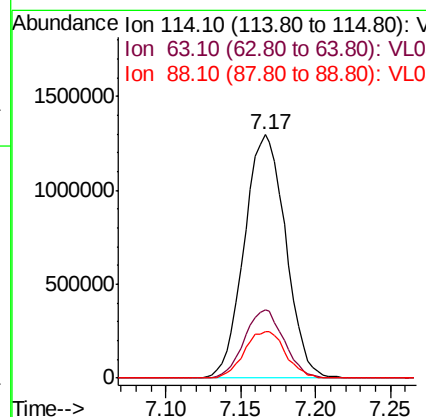
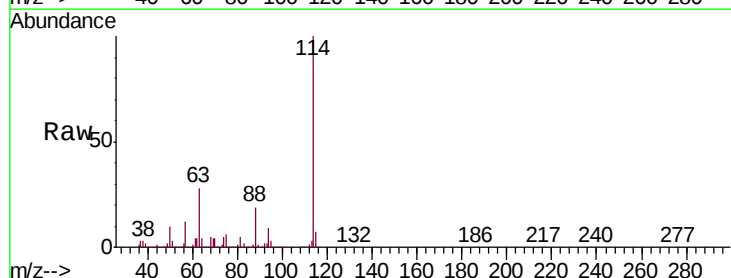
Manual Integrations  
APPROVED

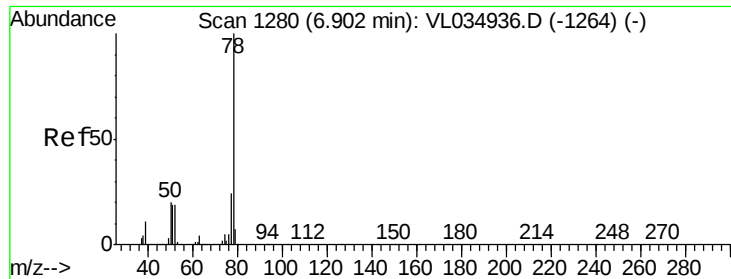
MMDadoda  
5/18/2020 2:08:28 PM



#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 7.17 min Scan# 1362  
Delta R.T. -0.02 min  
Lab File: VL034996.D  
Acq: 12 May 2020 20:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 27.1  | 22.2  | 33.4  |
| 88      | 19.2  | 15.5  | 23.3  |





#36

Benzene

Concen: 0.521 ppbv m

RT: 6.88 min Scan# 1274

Delta R.T. -0.02 min

Lab File: VL034996.D

Acq: 12 May 2020 20:58

Instrument :

MSVOA\_L

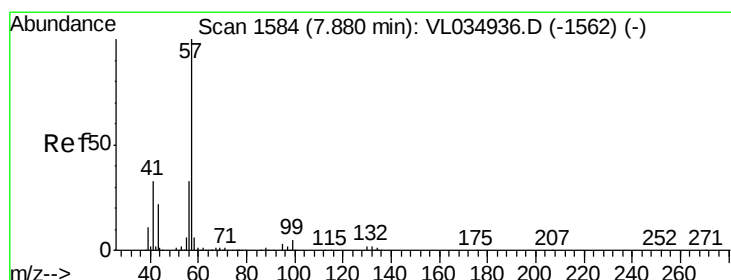
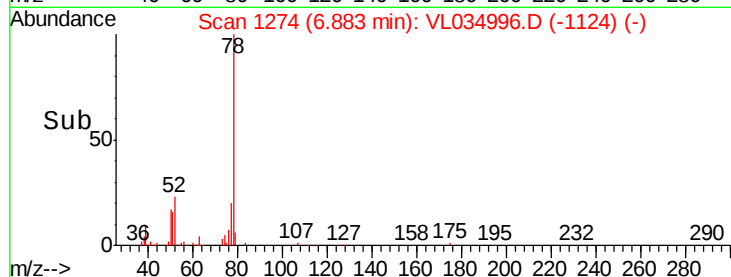
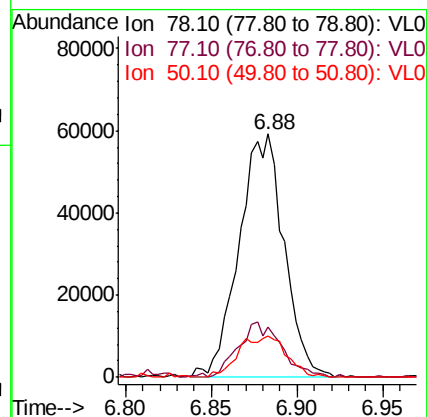
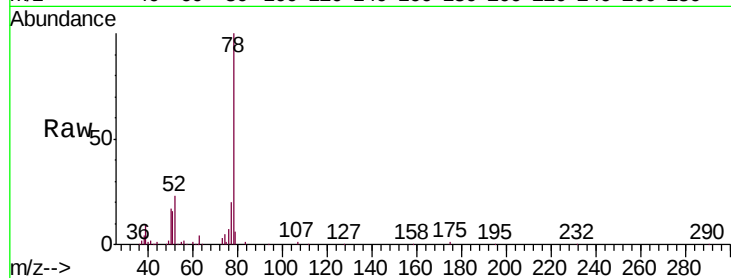
ClientSampleId :

IA-1DL2

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 78    | Resp: | 107353 |
| Ion      | Ratio | Lower | Upper  |
| 78       | 100   |       |        |
| 77       | 20.4  | 19.0  | 28.6   |
| 50       | 16.8  | 15.8  | 23.8   |

Manual Integrations  
APPROVED

MMDadoda  
5/18/2020 2:08:28 PM



#44

2,2,4-Trimethylpentane

Concen: 0.500 ppbv

RT: 7.86 min Scan# 1578

Delta R.T. -0.02 min

Lab File: VL034996.D

Acq: 12 May 2020 20:58

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 57    | Resp: | 183110 |
| Ion      | Ratio | Lower | Upper  |
| 57       | 100   |       |        |
| 41       | 41.4  | 26.4  | 39.6#  |
| 56       | 44.5  | 25.5  | 38.3#  |

