

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080621\  
 Data File : VL037353.D  
 Acq On : 6 Aug 2021 21:19  
 Operator : SY/AP  
 Sample : M3157-01DL 10X  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 DDC-2-INFLUENT-1DL

Manual Integrations  
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Quant Time: Aug 07 03:00:01 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080621AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 0  
 QLast Update : Fri Aug 06 17:52:04 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.66  | 49   | 860862   | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.17  | 114  | 2884271  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.07 | 117  | 2481559  | 10.00 | ppbv  | 0.00     |

| System Monitoring Compounds |        | R.T.  | QIon     | Response | Conc | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|------|--------|----------|
| 68) 1-Bromo-4-Fluorobenzene | 14.40  | 95    | 1624687  | 9.29     | ppbv | 0.00   |          |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 92.90% |          |

| Target Compounds           | R.T.  | QIon | Response | Conc   | Units  | Ovalue |
|----------------------------|-------|------|----------|--------|--------|--------|
| 3) Chlorodifluoromethane   | 2.99  | 51   | 19998    | 0.116  | ppbv   | 93     |
| 9) Propene                 | 3.01  | 41   | 10102    | 0.175  | ppbv   | 92     |
| 13) Ethanol                | 3.62  | 45   | 209765m  | 19.740 | ppbv   |        |
| 15) Acetone                | 3.87  | 43   | 162904m  | 1.816  | ppbv   |        |
| 19) Isopropyl Alcohol      | 4.00  | 45   | 30741m   | 0.566  | ppbv   |        |
| 20) Methylene Chloride     | 4.34  | 84   | 124130   | 1.652  | ppbv   | 94     |
| 26) Hexane                 | 5.68  | 57   | 71480    | 0.570  | ppbv # | 50     |
| 29) Chloroform             | 5.74  | 83   | 53262    | 0.317  | ppbv   | 99     |
| 31) cis-1,2-Dichloroethene | 5.54  | 61   | 34535m   | 0.349  | ppbv   |        |
| 34) 2-Butanone             | 5.26  | 43   | 29950m   | 0.309  | ppbv   |        |
| 35) Carbon Tetrachloride   | 7.01  | 117  | 23158    | 0.128  | ppbv # | 81     |
| 38) Trichloroethene        | 7.82  | 130  | 9335m    | 0.086  | ppbv   |        |
| 52) Tetrachloroethene      | 11.21 | 164  | 262819m  | 2.493  | ppbv   |        |
| 53) Toluene                | 9.80  | 91   | 54173    | 0.210  | ppbv   | 99     |

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

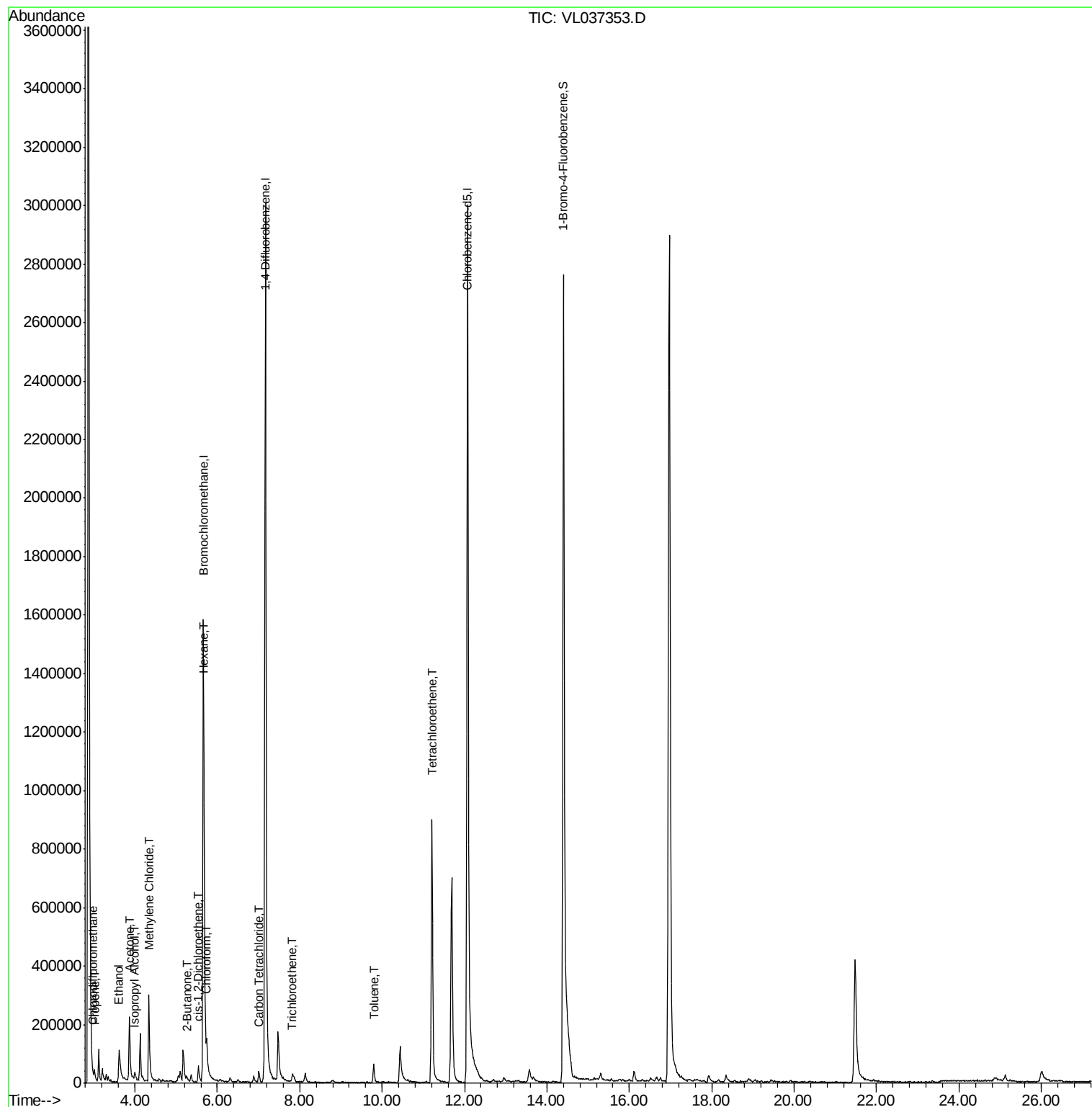
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL080621\  
Data File : VL037353.D  
Acq On : 6 Aug 2021 21:19  
Operator : SY/AP  
Sample : M3157-01DL 10X  
Misc : 400mL/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

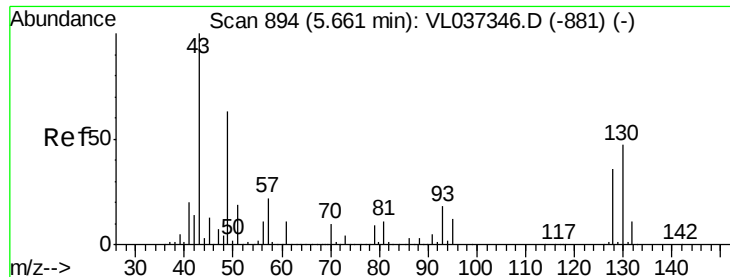
Instrument :  
MSVOA\_L  
ClientSampleId :  
DDC-2-INFLUENT-1DL

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Quant Time: Aug 07 03:00:01 2021  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL080621AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Fri Aug 06 17:52:04 2021  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. -0.00 min

Lab File: VL037353.D

Acq: 6 Aug 2021 21:19

Instrument :

MSVOA\_L

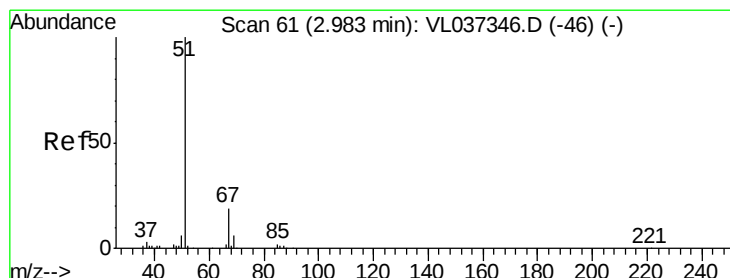
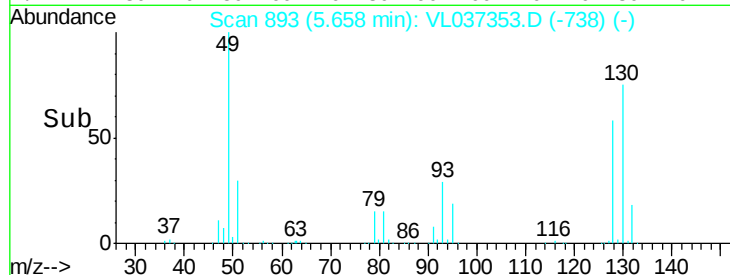
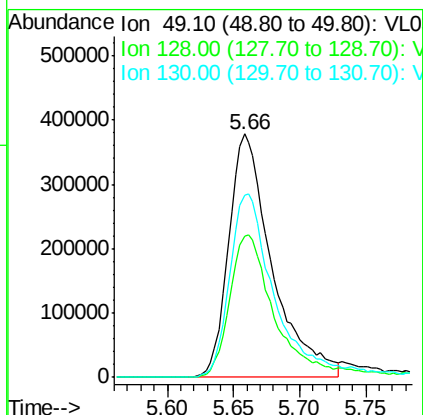
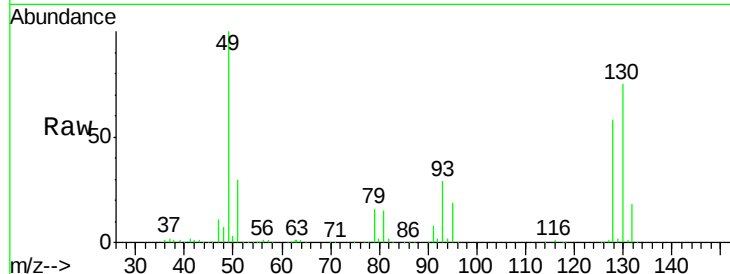
ClientSampleId :

DDC-2-INFLUENT-1DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 49    | Resp: | 860862 |
| Ion Ratio | Lower | Upper |        |
| 49        | 100   |       |        |
| 128       | 64.1  | 32.1  | 96.3   |
| 130       | 81.3  | 40.0  | 120.0  |

Manual Integrations  
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#3

Chlorodifluoromethane

Concen: 0.116 ppbv

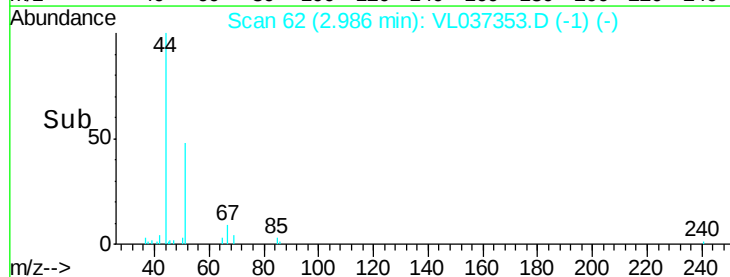
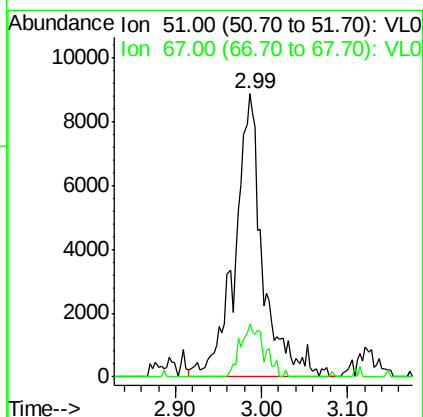
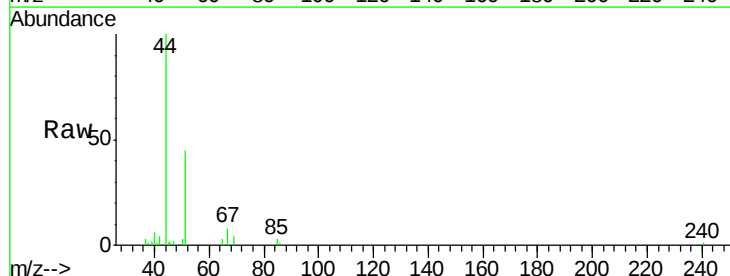
RT: 2.99 min Scan# 62

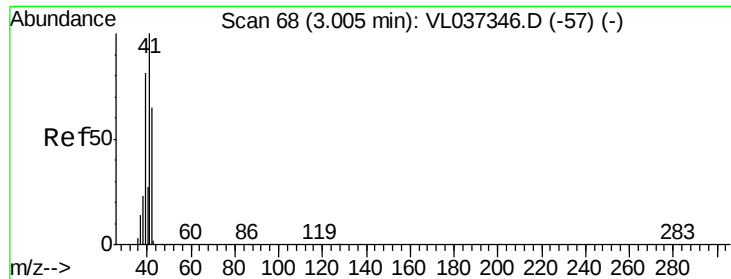
Delta R.T. 0.00 min

Lab File: VL037353.D

Acq: 6 Aug 2021 21:19

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 51    | Resp: | 19998 |
| Ion Ratio | Lower | Upper |       |
| 51        | 100   |       |       |
| 67        | 16.1  | 15.6  | 23.4  |





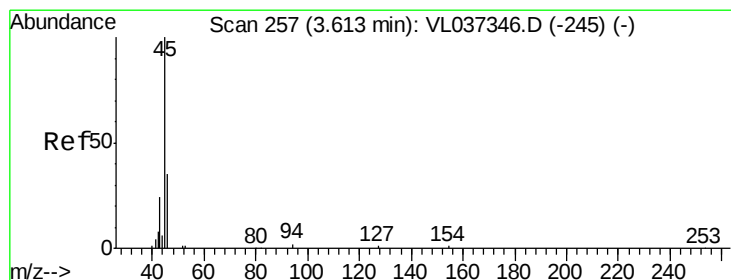
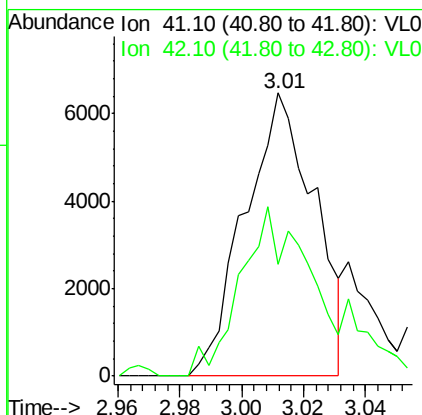
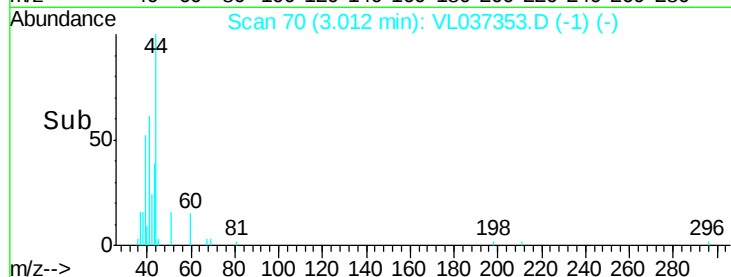
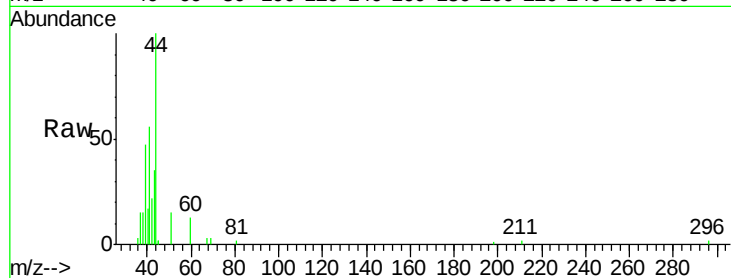
#9  
 Propene  
 Concen: 0.175 ppbv  
 RT: 3.01 min Scan# 70  
 Delta R.T. 0.01 min  
 Lab File: VL037353.D  
 Acq: 6 Aug 2021 21:19

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 DDC-2-INFLUENT-1DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 41      | 100   |       |       |
| 42      | 74.8  | 54.3  | 81.5  |

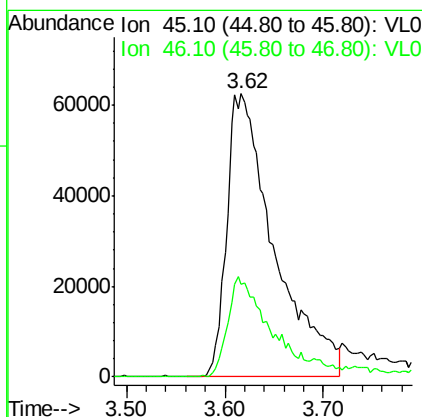
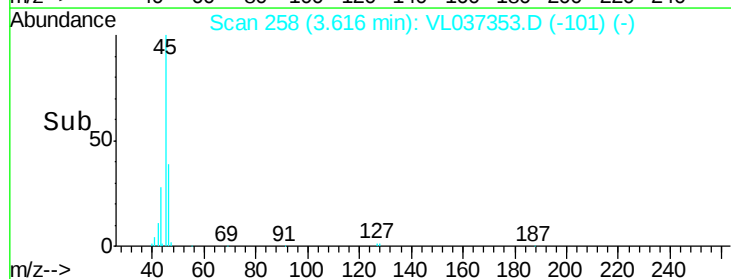
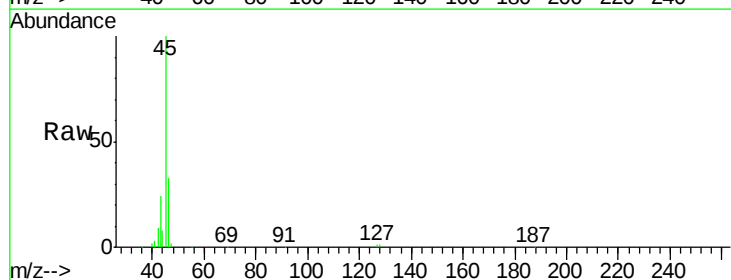
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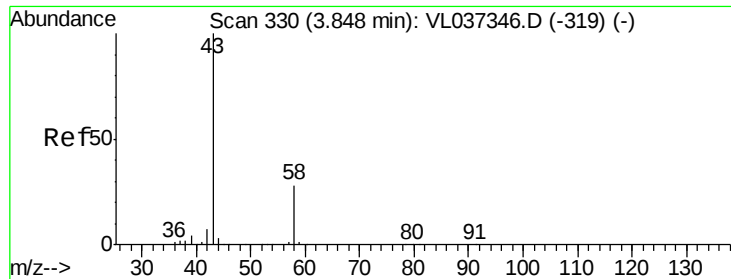
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#13  
 Ethanol  
 Concen: 19.740 ppbv m  
 RT: 3.62 min Scan# 258  
 Delta R.T. 0.00 min  
 Lab File: VL037353.D  
 Acq: 6 Aug 2021 21:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 45      | 100   |       |       |
| 46      | 0.0   | 15.7  | 62.9# |





#15

Acetone

Concen: 1.816 ppbv m

RT: 3.87 min Scan# 337

Delta R.T. 0.02 min

Lab File: VL037353.D

Acq: 6 Aug 2021 21:19

Instrument :

MSVOA\_L

ClientSampleId :

DDC-2-INFLUENT-1DL

Tot Ion: 43 Resp: 162904

Ion Ratio Lower Upper

43 100

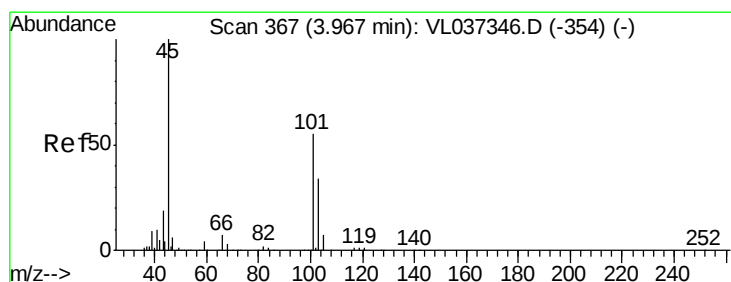
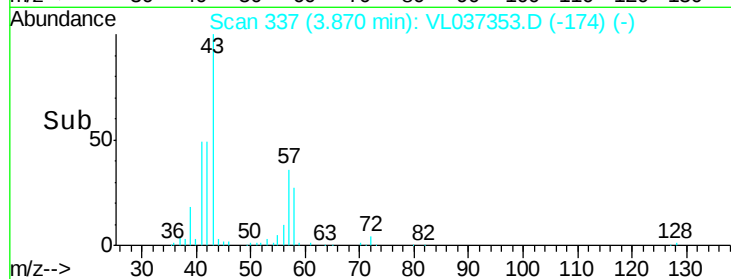
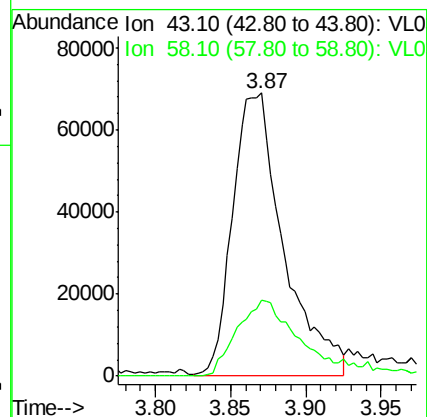
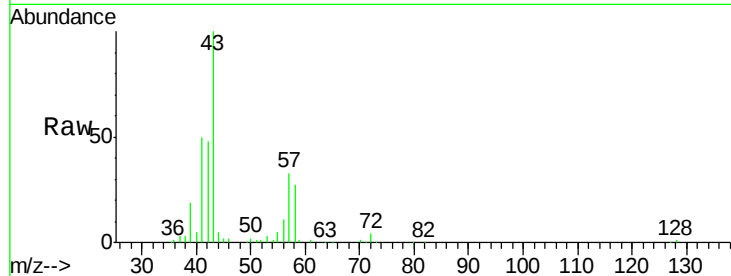
58 0.0 24.6 36.8#

Manual Integrations

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#19

Isopropyl Alcohol

Concen: 0.566 ppbv m

RT: 4.00 min Scan# 377

Delta R.T. 0.03 min

Lab File: VL037353.D

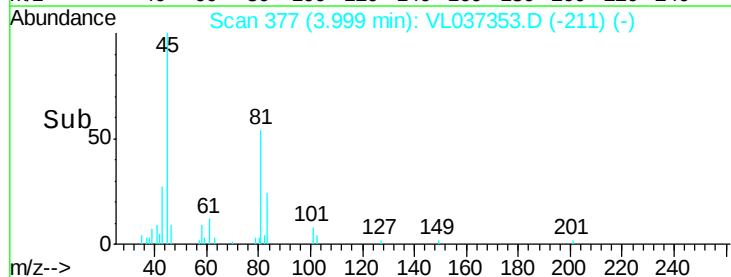
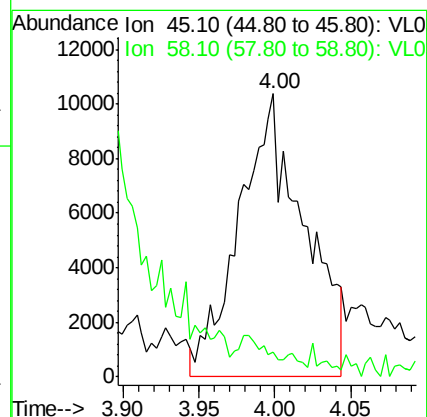
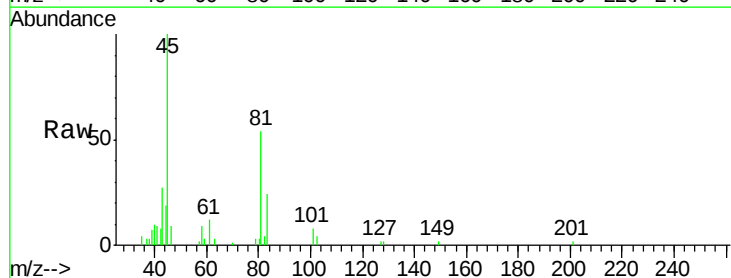
Acq: 6 Aug 2021 21:19

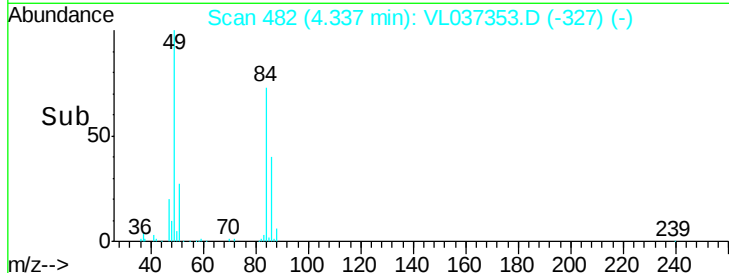
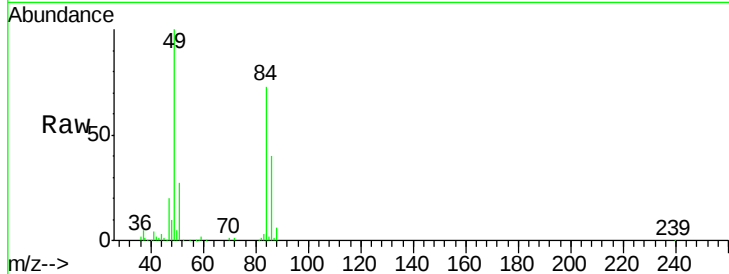
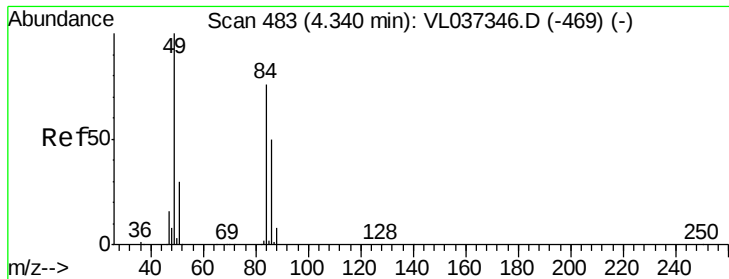
Tgt Ion: 45 Resp: 30741

Ion Ratio Lower Upper

45 100

58 0.0 1.8 2.8#





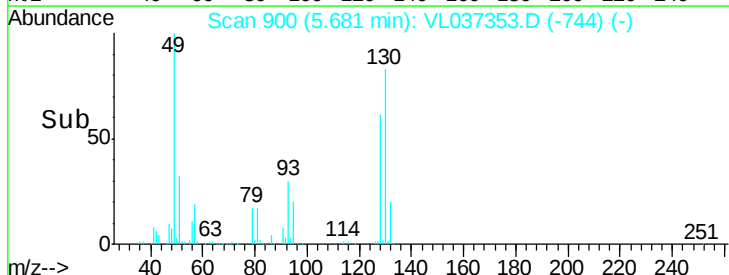
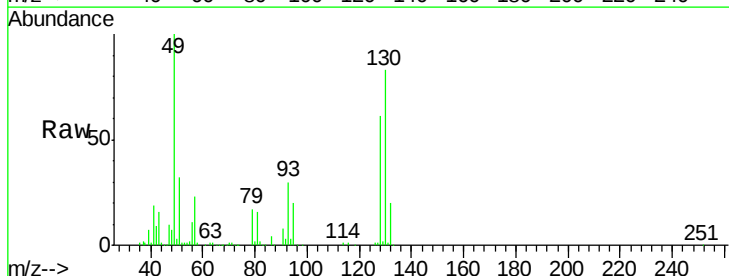
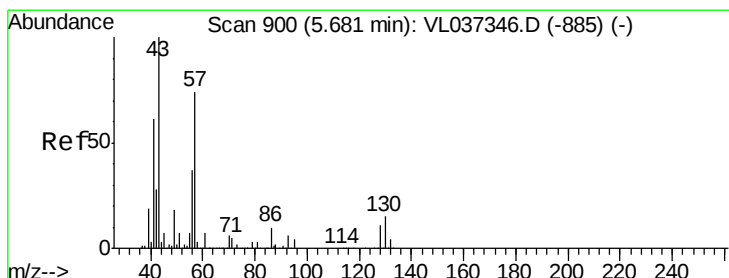
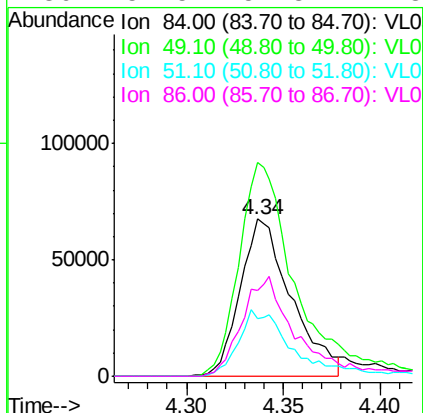
#20  
Methvlene Chloride  
Concen: 1.652 ppbv  
RT: 4.34 min Scan# 482  
Delta R.T. -0.00 min  
Lab File: VL037353.D  
Acq: 6 Aug 2021 21:19

| Tot Ion   | 84    | Resp  | 124130 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 84        | 100   |       |        |
| 49        | 136.2 | 107.3 | 160.9  |
| 51        | 37.0  | 33.0  | 49.4   |
| 86        | 54.5  | 51.8  | 77.8   |

Instrument :  
MSVOA\_L  
ClientSampleId :  
DDC-2-INFLUENT-1DL

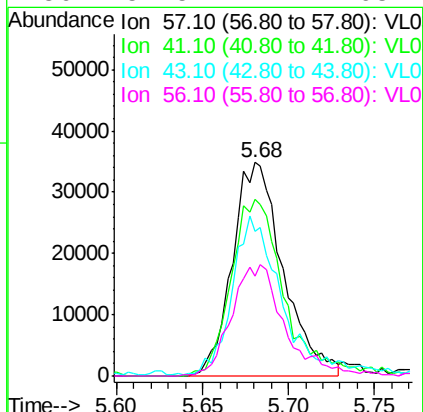
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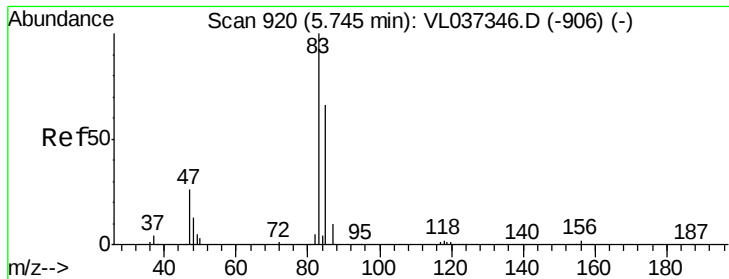
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#26  
Hexane  
Concen: 0.570 ppbv  
RT: 5.68 min Scan# 900  
Delta R.T. 0.00 min  
Lab File: VL037353.D  
Acq: 6 Aug 2021 21:19

| Tgt Ion   | 57    | Resp  | 71480  |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 57        | 100   |       |        |
| 41        | 87.6  | 69.2  | 103.8  |
| 43        | 75.8  | 162.1 | 243.1# |
| 56        | 54.5  | 42.2  | 63.4   |





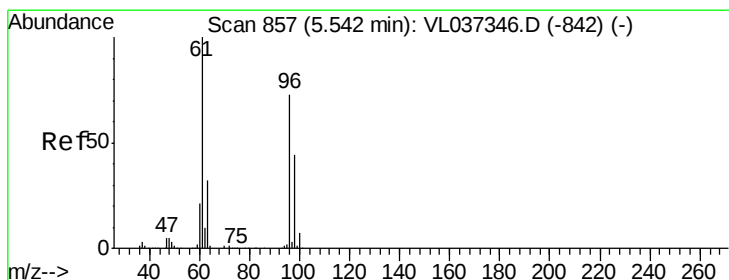
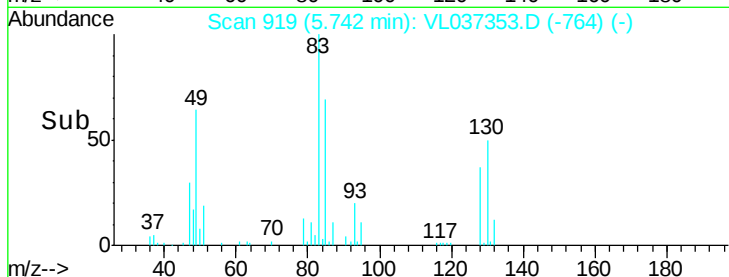
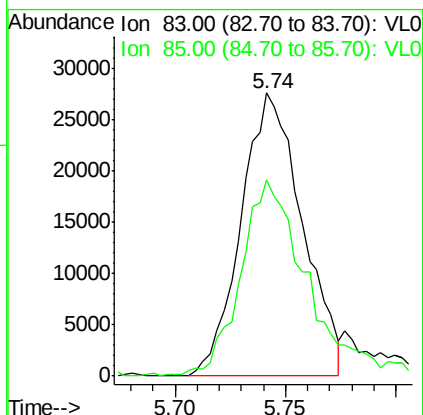
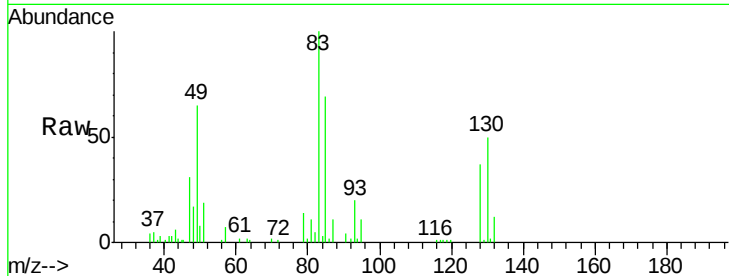
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Chloroform  
Concen: 0.317 ppbv  
RT: 5.74 min Scan# 919  
Delta R.T. -0.00 min  
Lab File: VL037353.D  
Acq: 6 Aug 2021 21:19

Instrument :  
MSVOA\_L  
ClientSampleId :  
DDC-2-INFLUENT-1DL

Tot Ion: 83 Resp: 53262  
Ion Ratio Lower Upper  
83 100  
85 67.2 53.1 79.7

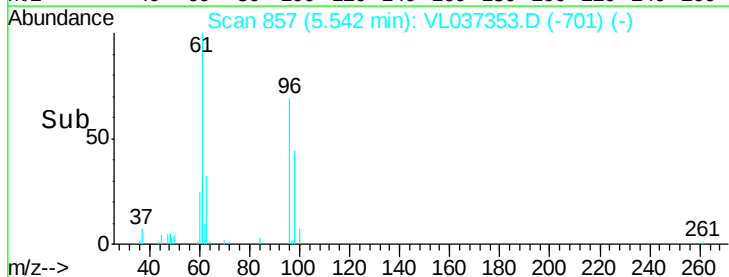
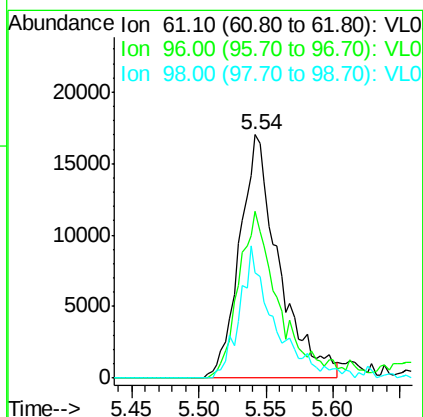
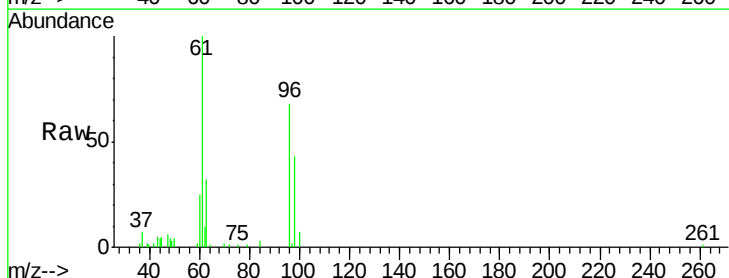
Manual Integrations  
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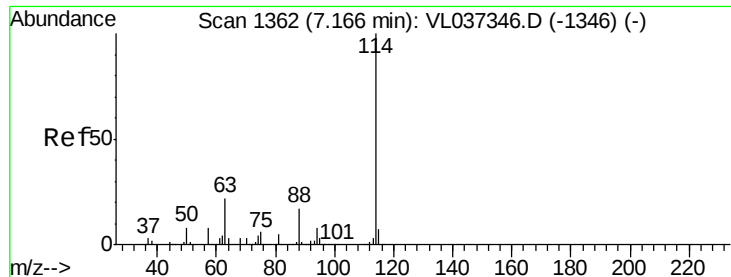
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#31  
cis-1,2-Dichloroethene  
Concen: 0.349 ppbv m  
RT: 5.54 min Scan# 857  
Delta R.T. 0.00 min  
Lab File: VL037353.D  
Acq: 6 Aug 2021 21:19

Tgt Ion: 61 Resp: 34535  
Ion Ratio Lower Upper  
61 100  
96 68.4 58.5 87.7  
98 43.2 35.1 52.7





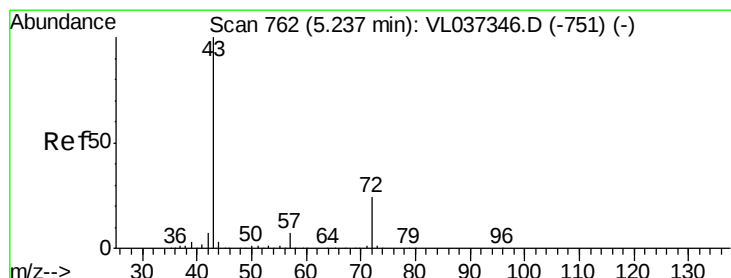
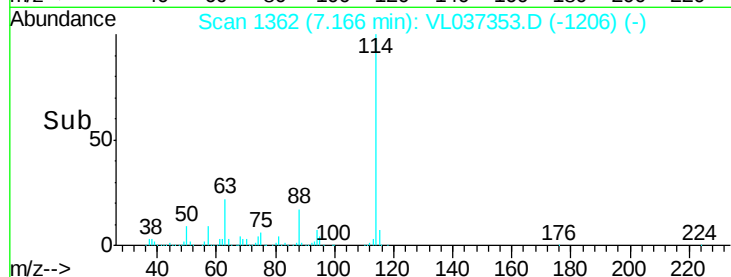
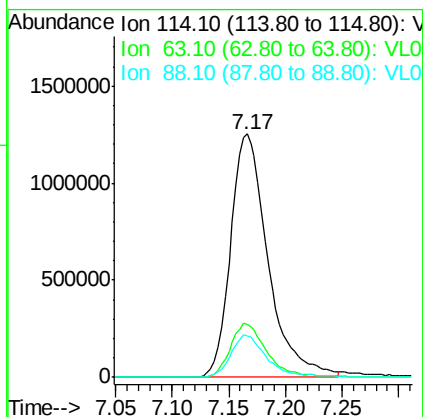
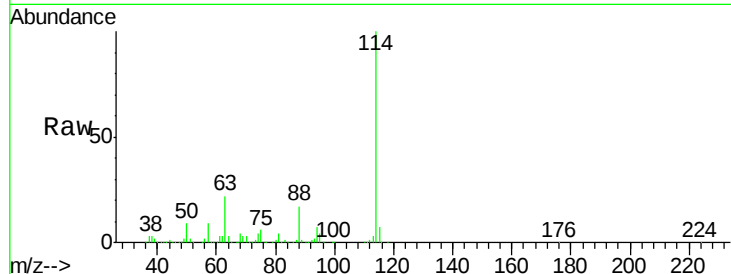
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.17 min Scan# 1362  
 Delta R.T. 0.00 min  
 Lab File: VL037353.D  
 Acq: 6 Aug 2021 21:19

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 DDC-2-INFLUENT-1DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 22.2  | 17.8  | 26.6  |
| 88      | 17.1  | 13.5  | 20.3  |

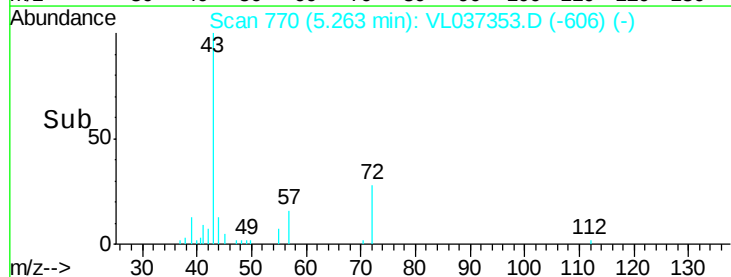
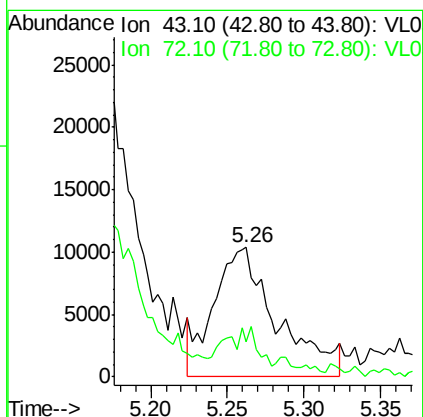
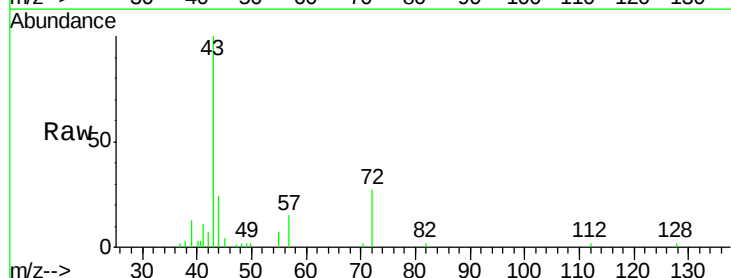
Manual Integrations  
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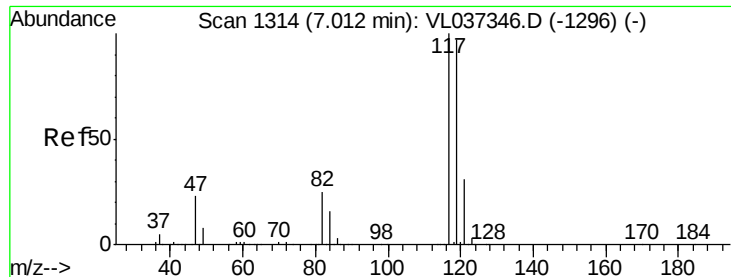
MMDadoda  
 8/10/2021 6:09:50 PM



#34  
 2-Butanone  
 Concen: 0.309 ppbv m  
 RT: 5.26 min Scan# 770  
 Delta R.T. 0.03 min  
 Lab File: VL037353.D  
 Acq: 6 Aug 2021 21:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 72      | 0.0   | 19.8  | 29.6# |





#35

Carbon Tetrachloride

Concen: 0.128 ppbv

RT: 7.01 min Scan# 1313

Delta R.T. -0.00 min

Lab File: VL037353.D

Acq: 6 Aug 2021 21:19

Instrument :

MSVOA\_L

ClientSampleId :

DDC-2-INFLUENT-1DL

Tot Ion:117 Resp: 23158

Ion Ratio Lower Upper

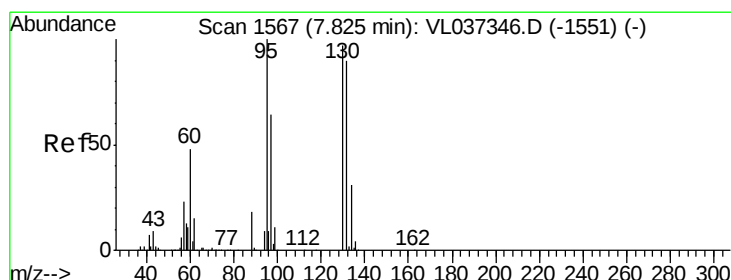
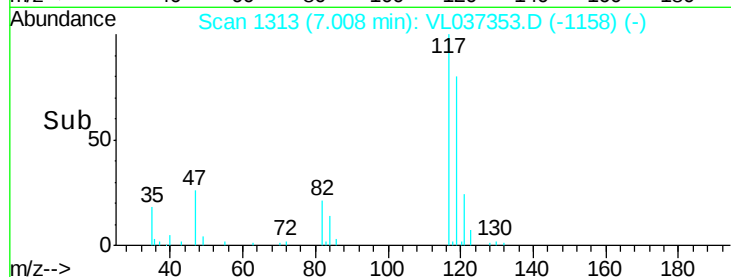
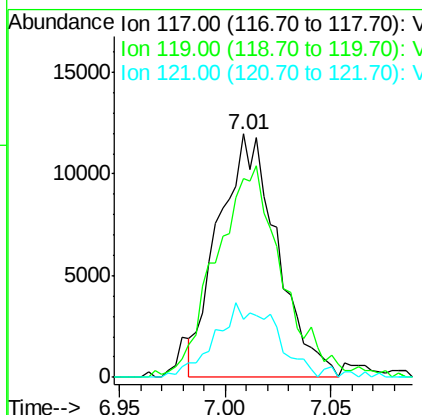
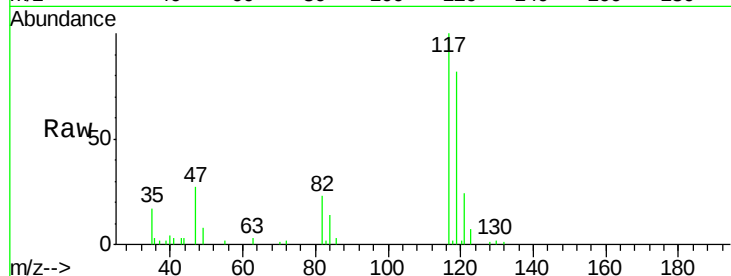
117 100

119 76.4 77.8 116.8#

121 23.8 24.6 36.8#

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#38

Trichloroethene

Concen: 0.086 ppbv m

RT: 7.82 min Scan# 1564

Delta R.T. -0.01 min

Lab File: VL037353.D

Acq: 6 Aug 2021 21:19

Tgt Ion:130 Resp: 9335

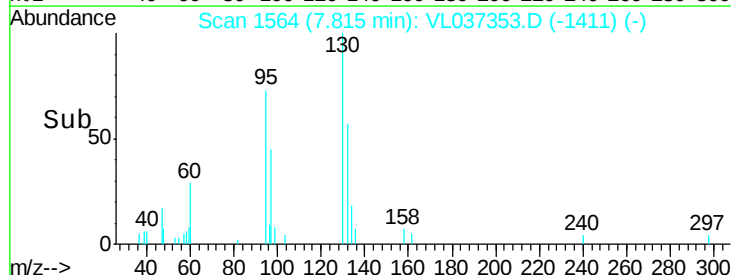
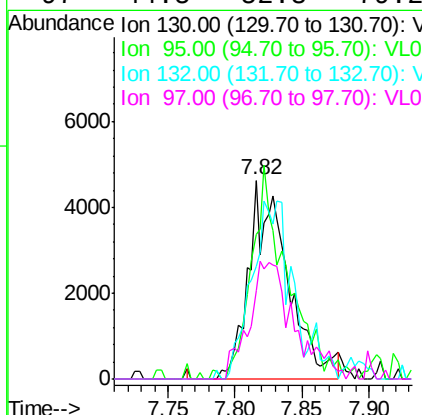
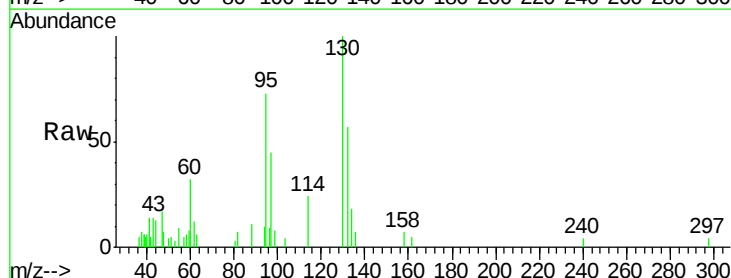
Ion Ratio Lower Upper

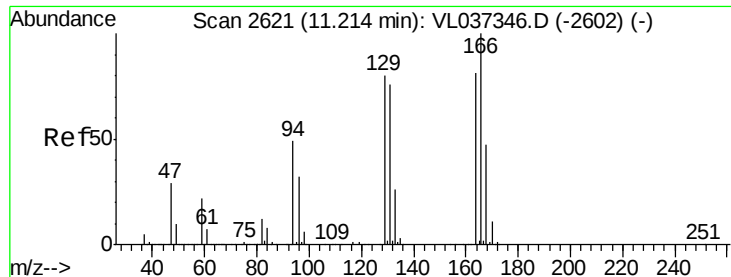
130 100

95 72.8 82.8 124.2#

132 56.6 74.9 112.3#

97 44.5 52.8 79.2#





#52

Tetrachloroethene

Concen: 2.493 ppbv m

RT: 11.21 min Scan# 2619

Delta R.T. -0.01 min

Lab File: VL037353.D

Acq: 6 Aug 2021 21:19

Instrument :

MSVOA\_L

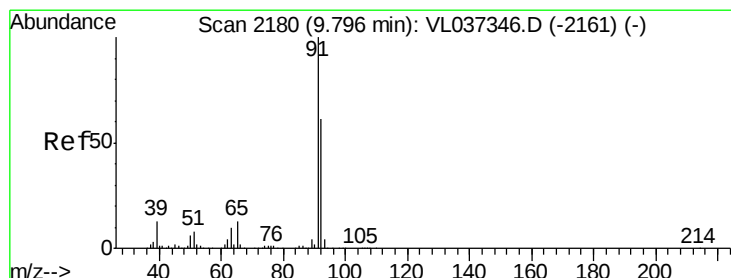
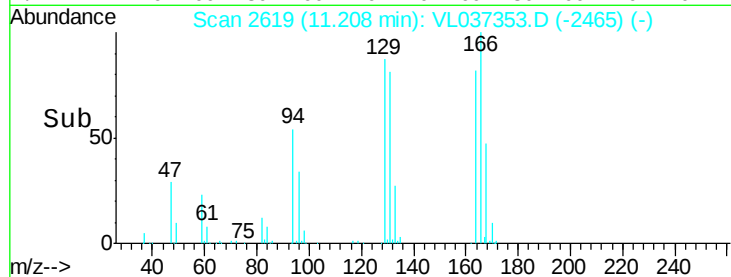
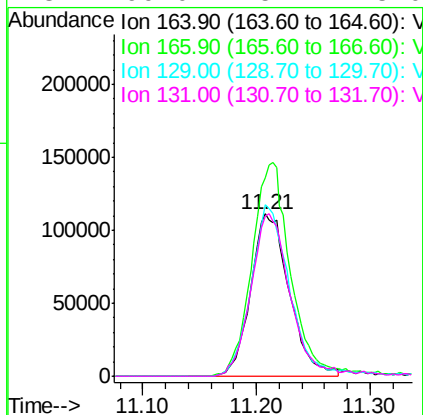
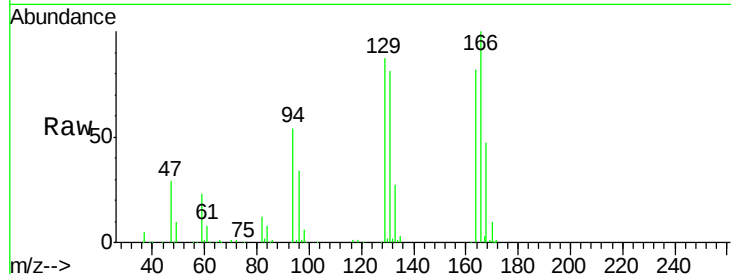
ClientSampleId :

DDC-2-INFLUENT-1DL

| Tot Ion | 164   | Resp  | 262819 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 164     | 100   |       |        |
| 166     | 122.5 | 99.4  | 149.0  |
| 129     | 106.1 | 79.2  | 118.8  |
| 131     | 99.0  | 75.4  | 113.0  |

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#53

Toluene

Concen: 0.210 ppbv

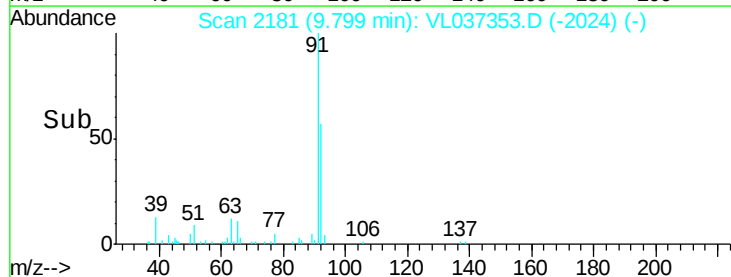
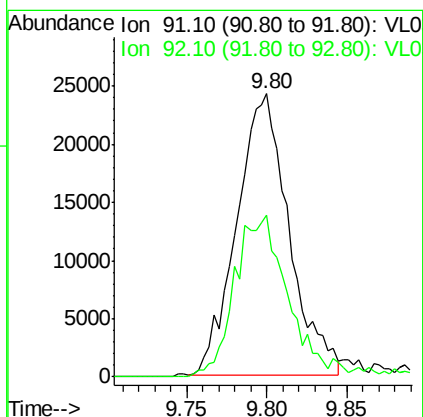
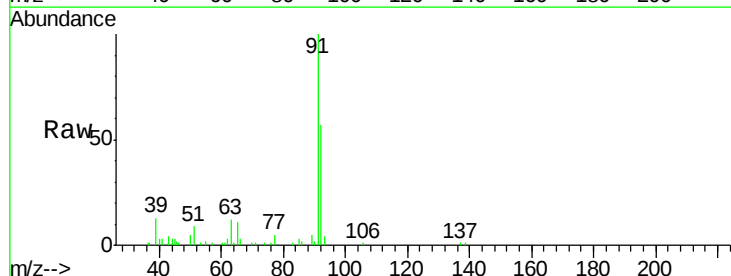
RT: 9.80 min Scan# 2181

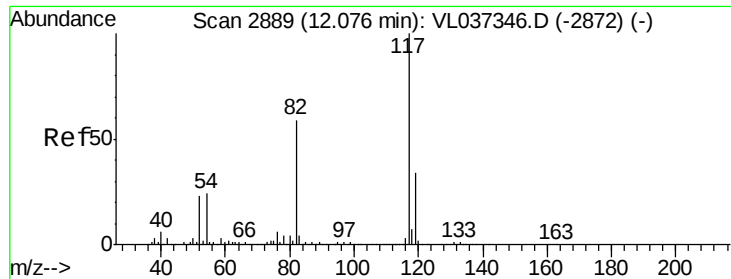
Delta R.T. 0.00 min

Lab File: VL037353.D

Acq: 6 Aug 2021 21:19

| Tgt Ion | 91    | Resp  | 54173 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 91      | 100   |       |       |
| 92      | 59.5  | 48.2  | 72.4  |





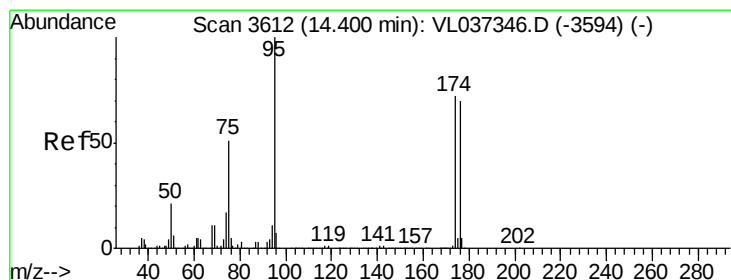
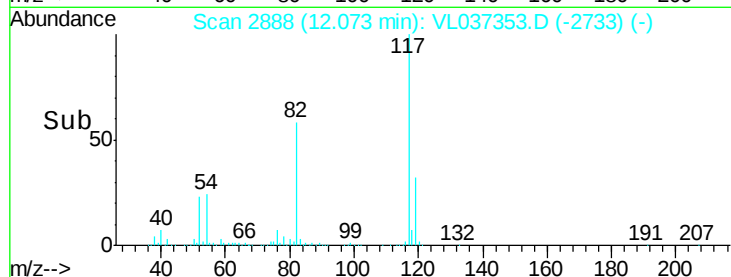
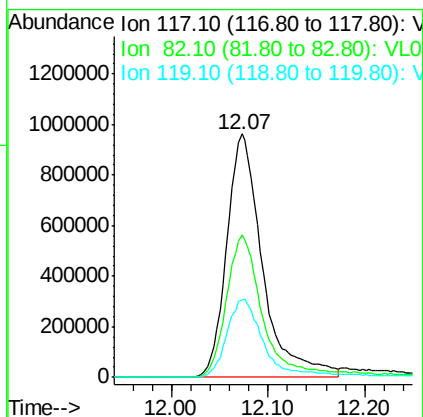
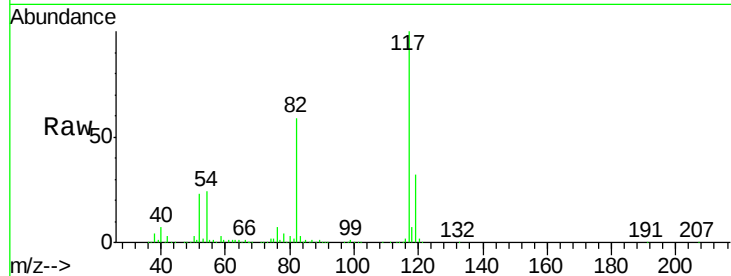
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.07 min Scan# 2888  
Delta R.T. -0.00 min  
Lab File: VL037353.D  
Acq: 6 Aug 2021 21:19

Instrument :  
MSVOA\_L  
ClientSampleId :  
DDC-2-INFLUENT-1DL

Tot Ion:117 Resp: 2481559  
Ion Ratio Lower Upper  
117 100  
82 62.2 46.0 69.0  
119 34.9 24.4 36.6

Manual Integrations  
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#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.294 ppbv  
RT: 14.40 min Scan# 3613  
Delta R.T. 0.00 min  
Lab File: VL037353.D  
Acq: 6 Aug 2021 21:19

Tgt Ion: 95 Resp: 1624687  
Ion Ratio Lower Upper  
95 100  
174 85.2 60.8 91.2  
175 5.6 4.3 6.5

