

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL063020\  
 Data File : VL035130.D  
 Acq On : 30 Jun 2020 18:17  
 Operator : SY/AP  
 Sample : L3124-02DL 10X  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 MIDDLE

Manual Integrations  
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MMDadoda  
 7/2/2020 5:00:41 PM

Quant Time: Jul 01 16:35:38 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061920AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Sat Jun 20 2020  
 QLast Update : Sat Jun 20 02:10:36 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.67  | 49   | 1355943  | 10.00 | ppbv  | 0.02     |
| 33) 1,4-Difluorobenzene | 7.19  | 114  | 3167426  | 10.00 | ppbv  | 0.02     |
| 55) Chlorobenzene-d5    | 12.12 | 117  | 2991287  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.46  | 95    | 2474012  | 9.96     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 99.60% |

| Target Compounds          | R.T.  | QIon | Response | Conc   | Units  | Ovalue |
|---------------------------|-------|------|----------|--------|--------|--------|
| 9) Propene                | 2.97  | 41   | 601329   | 10.138 | ppbv   | 98     |
| 13) Ethanol               | 3.57  | 45   | 361312   | 16.125 | ppbv   | 98     |
| 15) Acetone               | 3.82  | 43   | 2014093  | 12.286 | ppbv # | 61     |
| 17) tert-Butyl alcohol    | 4.28  | 59   | 164234   | 1.130  | ppbv   | 95     |
| 18) 1,1-Dichloroethene    | 4.26  | 96   | 14730m   | 0.241  | ppbv   |        |
| 19) Isopropyl Alcohol     | 3.94  | 45   | 932748   | 8.763  | ppbv # | 1      |
| 20) Methylene Chloride    | 4.33  | 84   | 66368    | 1.000  | ppbv   | 94     |
| 24) 1,1-Dichloroethane    | 5.00  | 63   | 108659   | 0.648  | ppbv   | 99     |
| 32) 1,1,1-Trichloroethane | 6.52  | 97   | 100686   | 0.520  | ppbv   | 99     |
| 34) 2-Butanone            | 5.23  | 43   | 6047658  | 33.248 | ppbv   | 97     |
| 51) 2-Hexanone            | 10.16 | 43   | 583098   | 2.881  | ppbv   | 98     |

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

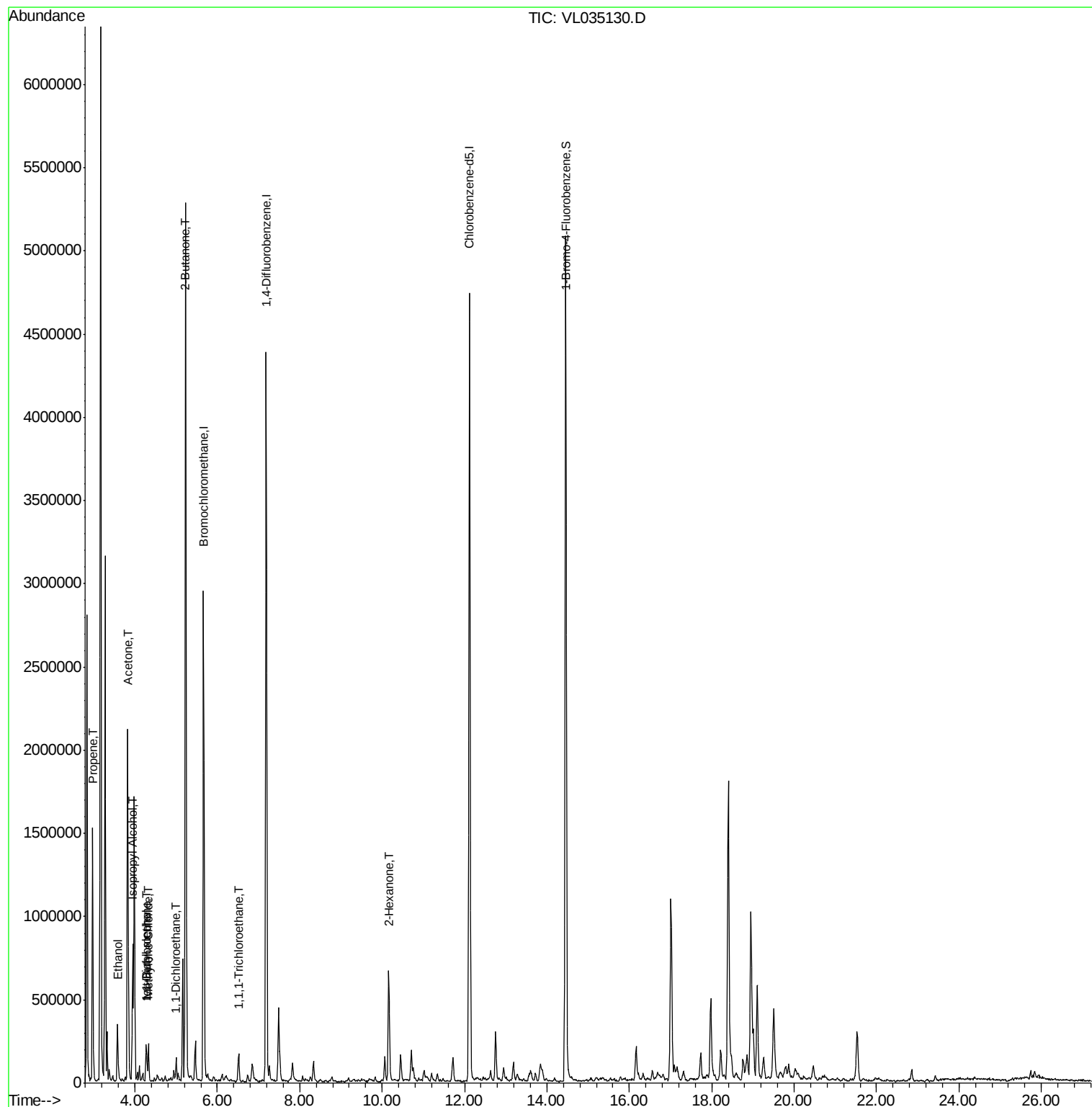
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL063020\  
Data File : VL035130.D  
Acq On : 30 Jun 2020 18:17  
Operator : SY/AP  
Sample : L3124-02DL 10X  
Misc : 400ml/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

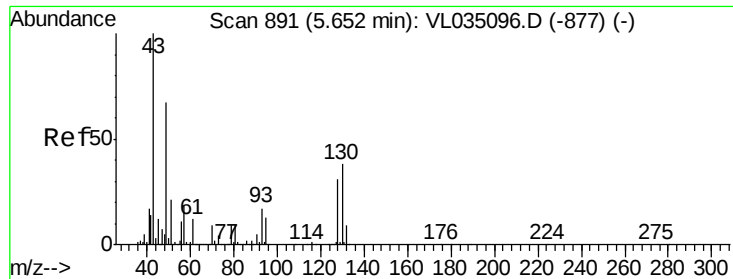
Instrument :  
MSVOA\_L  
ClientSampleId :  
MIDDLE

Manual Integrations  
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7/2/2020 5:00:41 PM

Quant Time: Jul 01 16:35:38 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL061920AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Sat Jun  
QLast Update : Sat Jun 20 02:10:36 2020  
Response via : Initial Calibration





#1

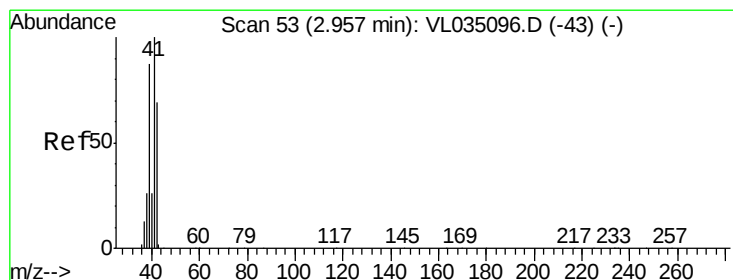
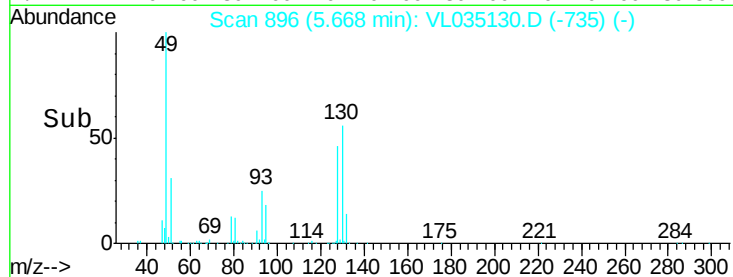
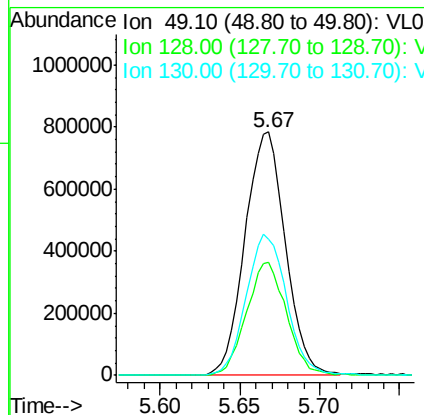
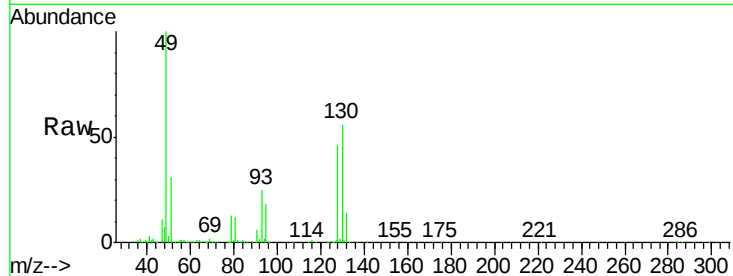
Bromochloromethane  
 Concen: 10.000 ppbv  
 RT: 5.67 min Scan# 896  
 Delta R.T. 0.02 min  
 Lab File: VL035130.D  
 Acq: 30 Jun 2020 18:17

Instrument :  
 MSVOA\_L  
 ClientSampled :  
 MIDDLE

Tot Ion: 49 Resp: 1355943  
 Ion Ratio Lower Upper  
 49 100  
 128 46.3 22.9 68.5  
 130 58.1 29.0 87.0

Manual Integrations  
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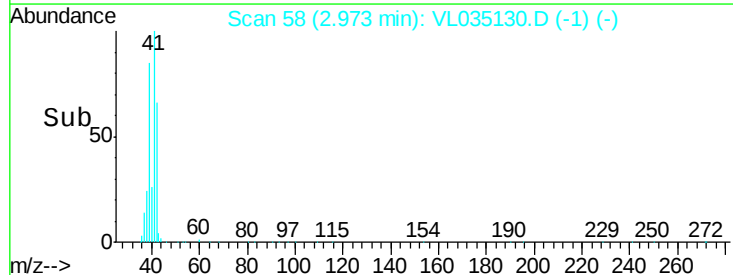
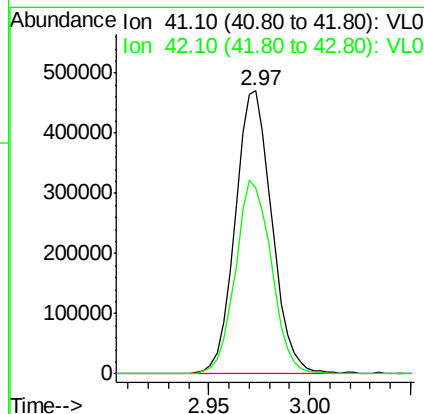
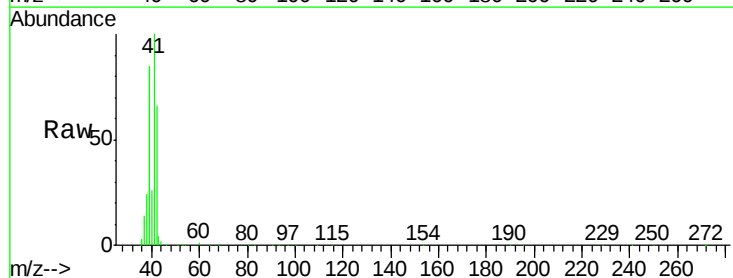
MMDadoda  
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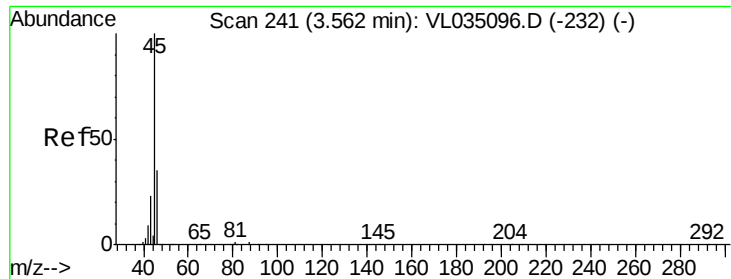


#9

Propene  
 Concen: 10.138 ppbv  
 RT: 2.97 min Scan# 58  
 Delta R.T. 0.02 min  
 Lab File: VL035130.D  
 Acq: 30 Jun 2020 18:17

Tgt Ion: 41 Resp: 601329  
 Ion Ratio Lower Upper  
 41 100  
 42 67.8 55.8 83.6





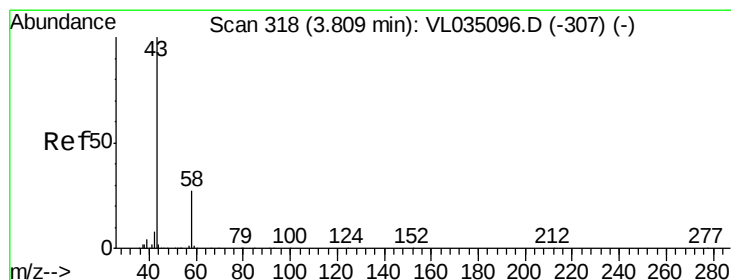
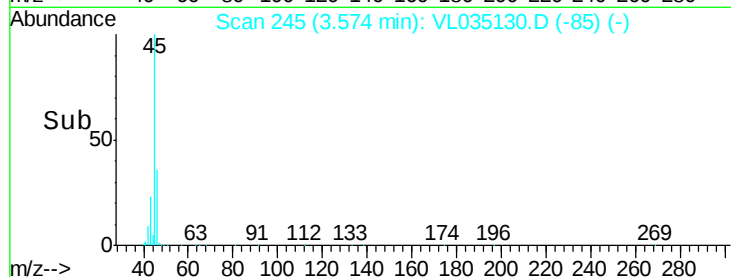
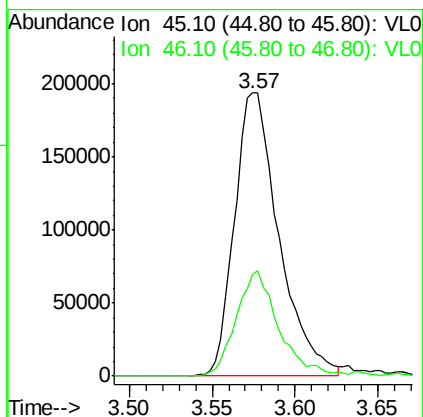
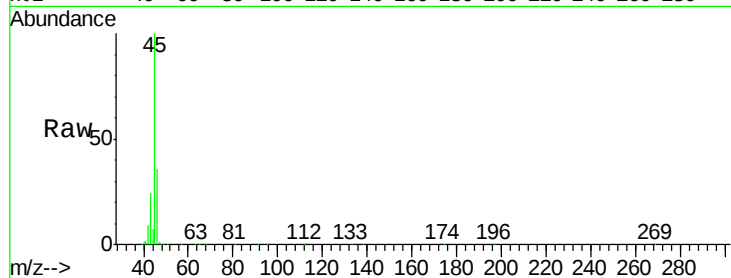
#13  
Ethanol  
Concen: 16.125 ppbv  
RT: 3.57 min Scan# 245  
Delta R.T. 0.01 min  
Lab File: VL035130.D  
Acq: 30 Jun 2020 18:17

Instrument :  
MSVOA\_L  
ClientSampleId :  
MIDDLE

Tot Ion: 45 Resp: 361312  
Ion Ratio Lower Upper  
45 100  
46 36.7 14.2 57.0

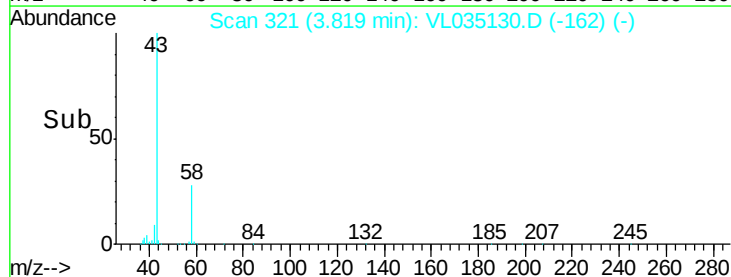
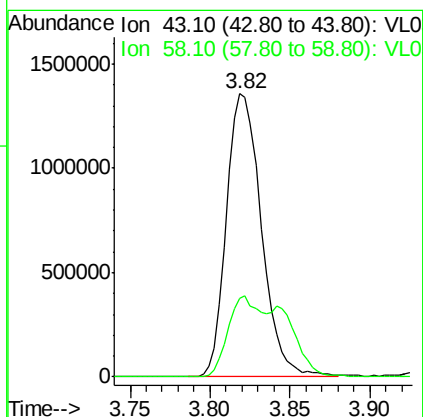
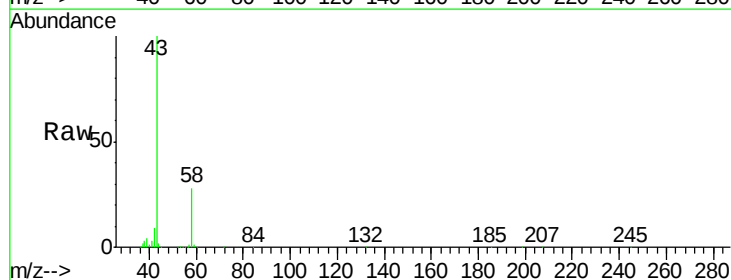
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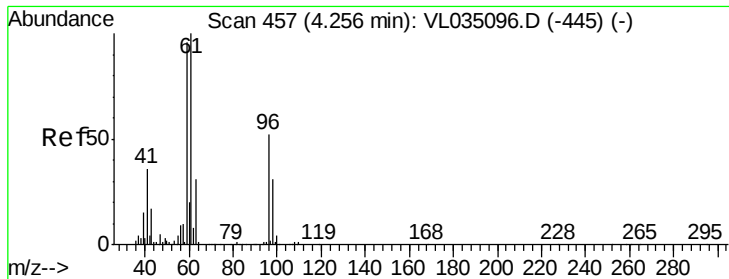
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#15  
Acetone  
Concen: 12.286 ppbv  
RT: 3.82 min Scan# 321  
Delta R.T. 0.01 min  
Lab File: VL035130.D  
Acq: 30 Jun 2020 18:17

Tgt Ion: 43 Resp: 2014093  
Ion Ratio Lower Upper  
43 100  
58 47.3 21.8 32.6#





#17

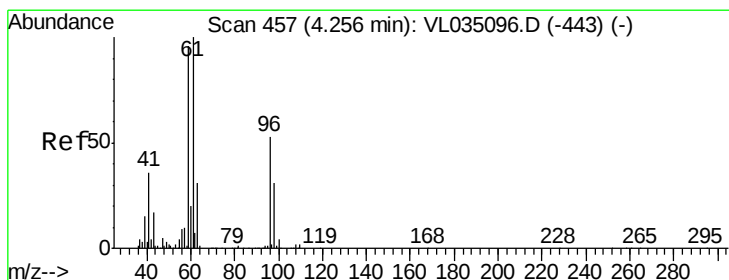
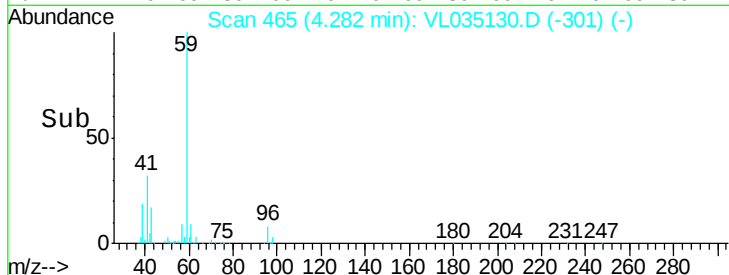
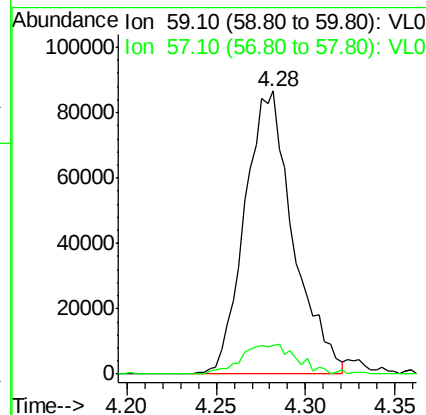
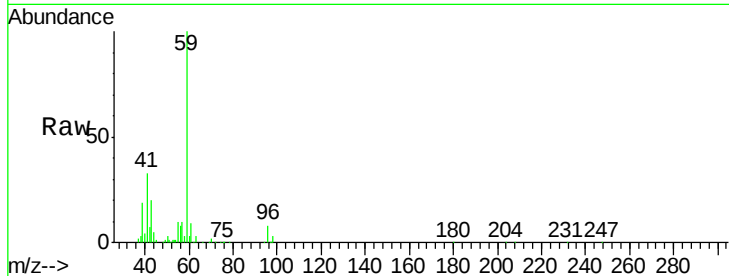
tert-Butyl alcohol  
 Concen: 1.130 ppbv  
 RT: 4.28 min Scan# 465  
 Delta R.T. 0.03 min  
 Lab File: VL035130.D  
 Acq: 30 Jun 2020 18:17

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 MIDDLE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 59      | 100   |       |       |
| 57      | 12.4  | 8.6   | 12.8  |

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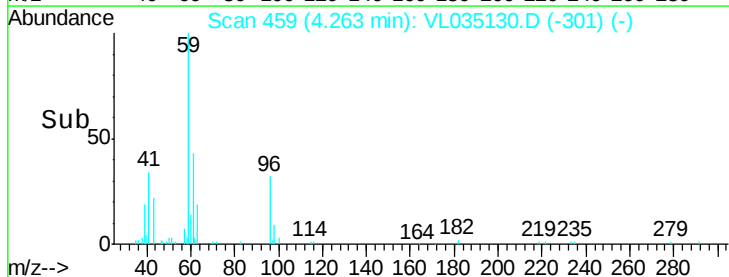
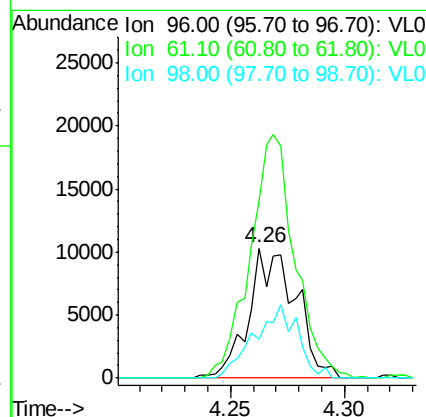
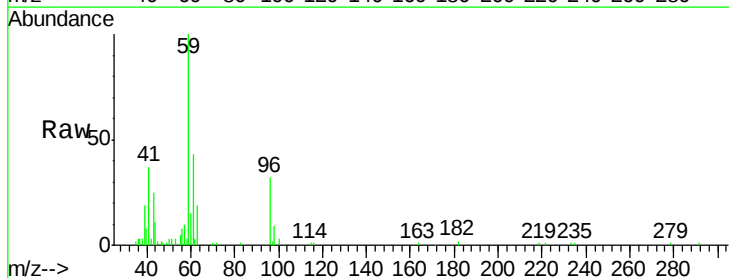
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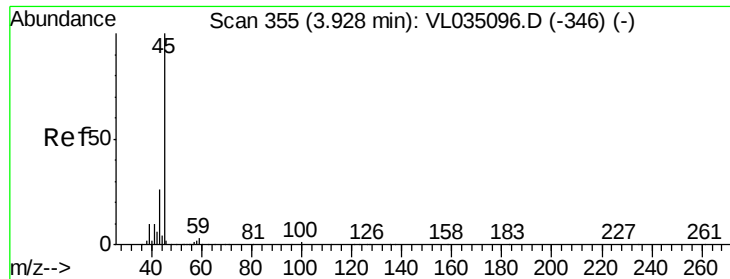


#18

1,1-Dichloroethene  
 Concen: 0.241 ppbv m  
 RT: 4.26 min Scan# 459  
 Delta R.T. 0.01 min  
 Lab File: VL035130.D  
 Acq: 30 Jun 2020 18:17

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 96      | 100   |       |        |
| 61      | 136.4 | 152.2 | 228.4# |
| 98      | 30.0  | 47.7  | 71.5#  |





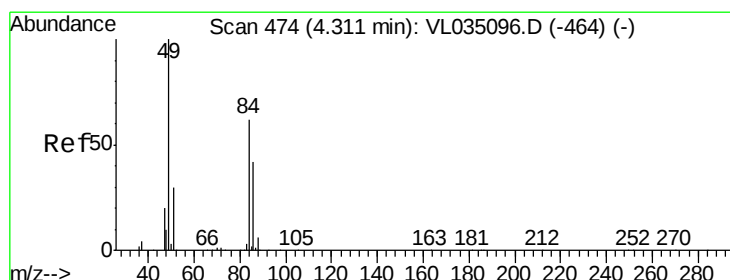
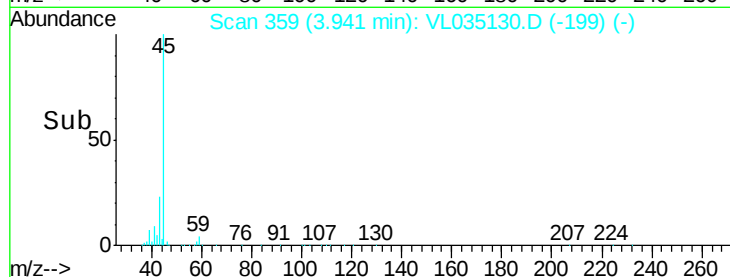
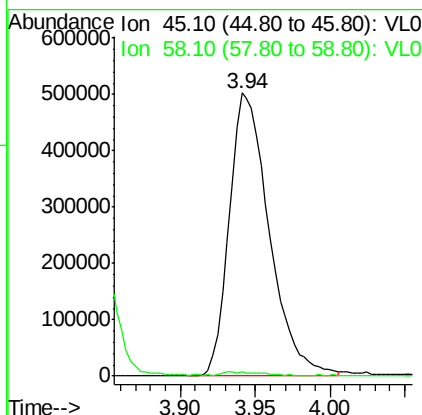
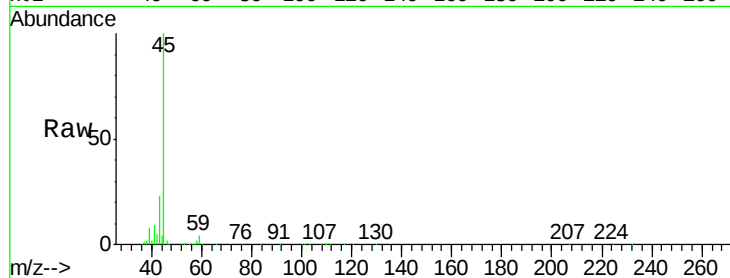
#19  
Isopropyl Alcohol  
Concen: 8.763 ppbv  
RT: 3.94 min Scan# 359  
Delta R.T. 0.01 min  
Lab File: VL035130.D  
Acq: 30 Jun 2020 18:17

Instrument :  
MSVOA\_L  
ClientSampleId :  
MIDDLE

Tot Ion: 45 Resp: 932748  
Ion Ratio Lower Upper  
45 100  
58 101.9 1.8 2.8#

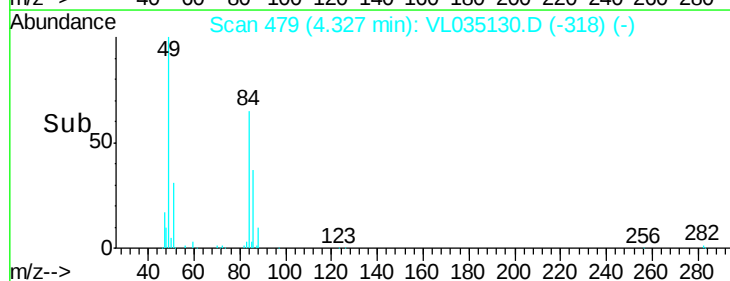
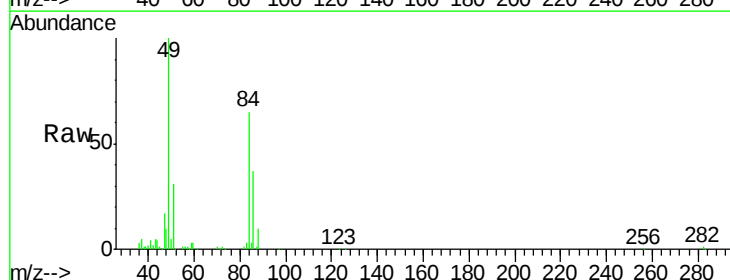
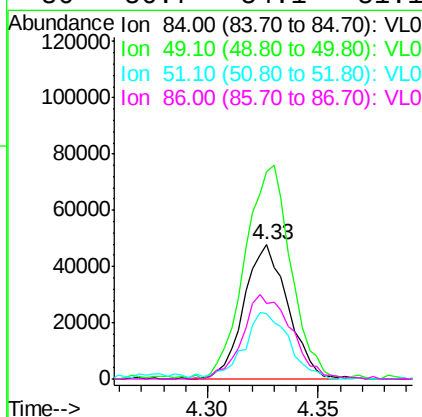
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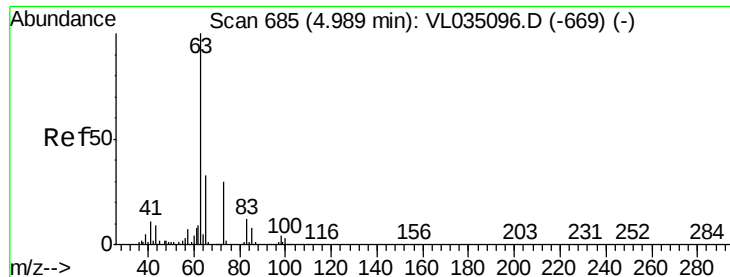
MMDadoda  
7/2/2020 5:00:41 PM



#20  
Methylene Chloride  
Concen: 1.000 ppbv  
RT: 4.33 min Scan# 479  
Delta R.T. 0.02 min  
Lab File: VL035130.D  
Acq: 30 Jun 2020 18:17

Tgt Ion: 84 Resp: 66368  
Ion Ratio Lower Upper  
84 100  
49 153.9 128.8 193.2  
51 48.7 38.7 58.1  
86 56.7 54.1 81.1





#24

1,1-Dichloroethane

Concen: 0.648 ppbv

RT: 5.00 min Scan# 688

Delta R.T. 0.01 min

Lab File: VL035130.D

Acq: 30 Jun 2020 18:17

Instrument :

MSVOA\_L

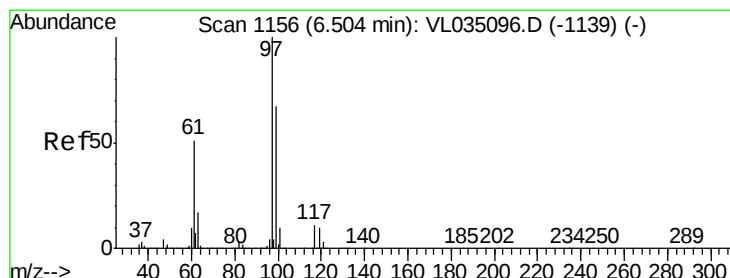
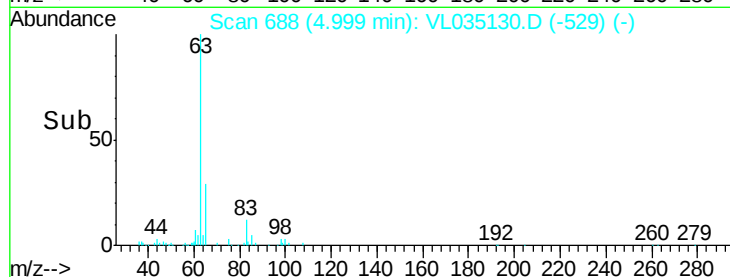
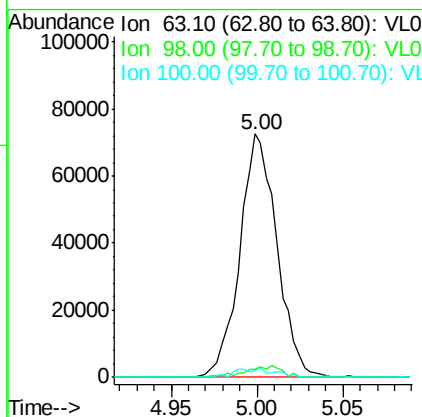
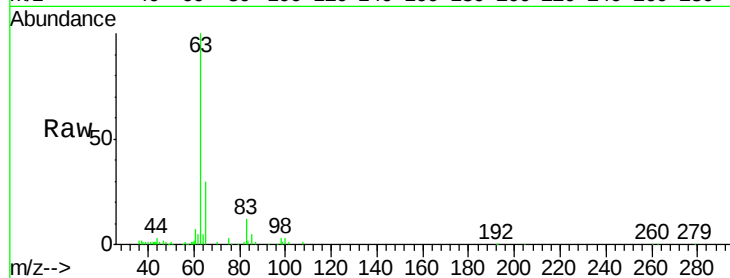
ClientSampled :

MIDDLE

|           |     |       |        |
|-----------|-----|-------|--------|
| Tot Ion:  | 63  | Resp: | 108659 |
| Ion Ratio |     | Lower | Upper  |
| 63        | 100 |       |        |
| 98        | 4.2 | 2.3   | 6.9    |
| 100       | 2.9 | 1.4   | 4.0    |

Manual Integrations  
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7/2/2020 5:00:41 PM



#32

1,1,1-Trichloroethane

Concen: 0.520 ppbv

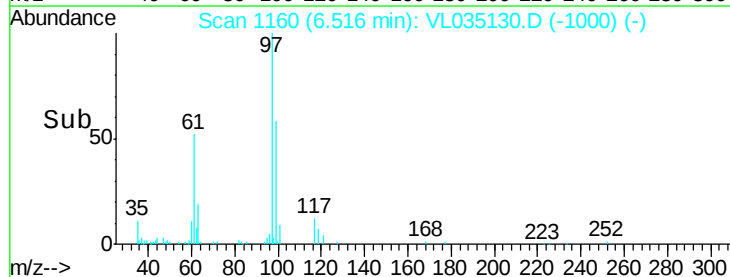
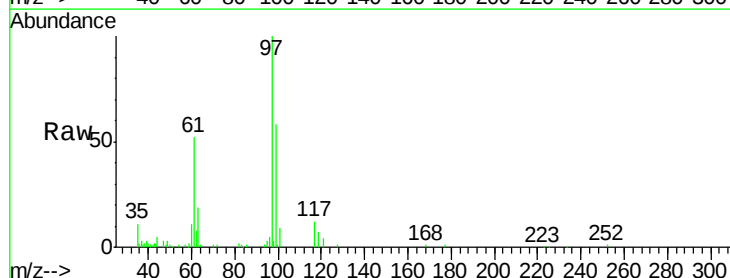
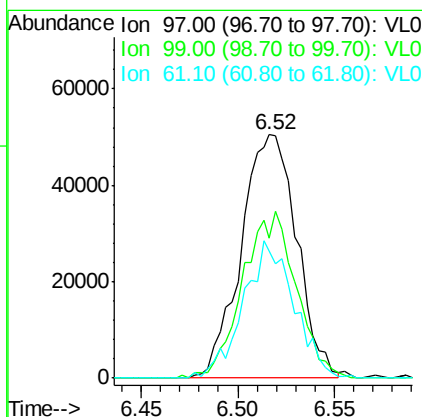
RT: 6.52 min Scan# 1160

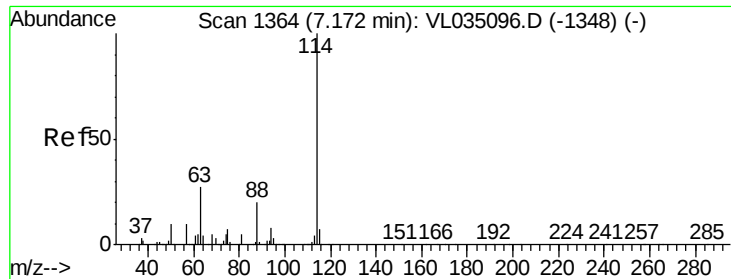
Delta R.T. 0.01 min

Lab File: VL035130.D

Acq: 30 Jun 2020 18:17

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 97   | Resp: | 100686 |
| Ion Ratio |      | Lower | Upper  |
| 97        | 100  |       |        |
| 99        | 65.9 | 52.0  | 78.0   |
| 61        | 51.7 | 41.0  | 61.6   |





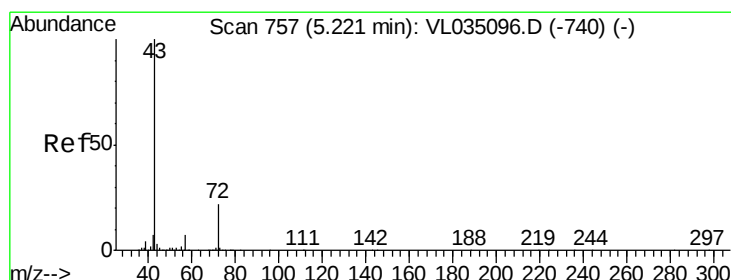
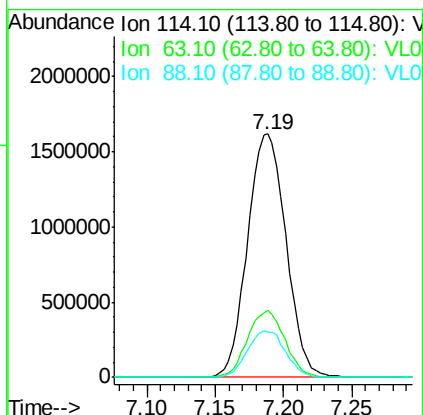
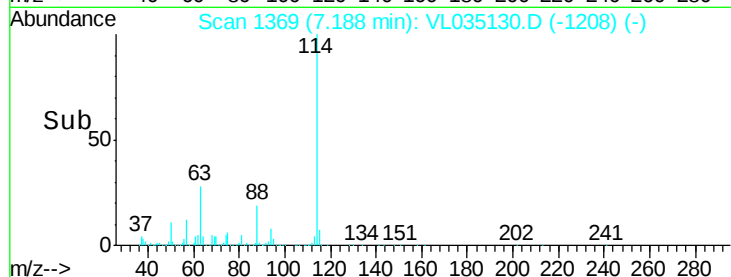
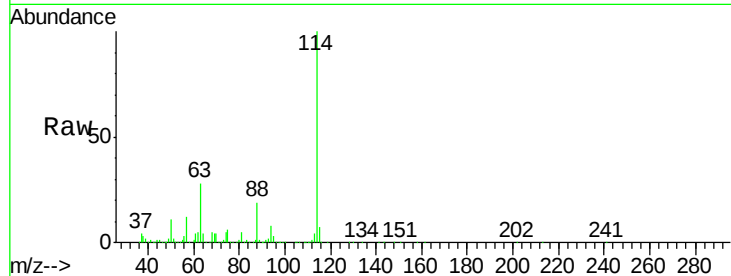
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 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.19 min Scan# 1369  
 Delta R.T. 0.02 min  
 Lab File: VL035130.D  
 Acq: 30 Jun 2020 18:17

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 MIDDLE

Tot Ion:114 Resp: 3167426  
 Ion Ratio Lower Upper  
 114 100  
 63 26.7 21.9 32.9  
 88 19.0 15.6 23.4

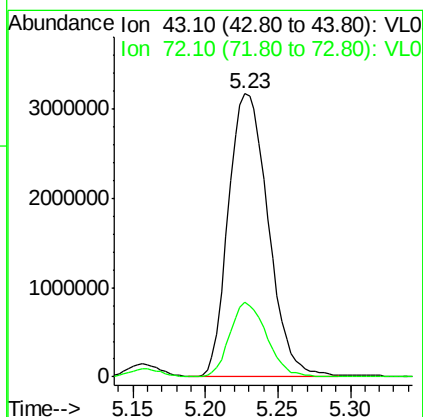
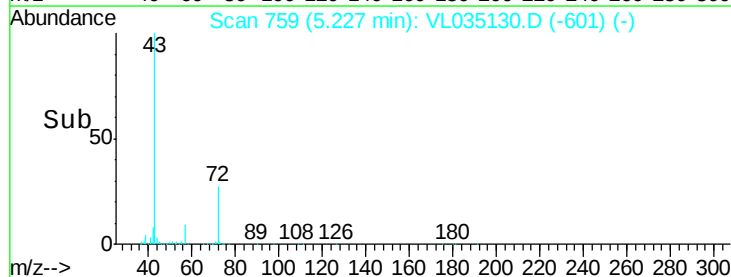
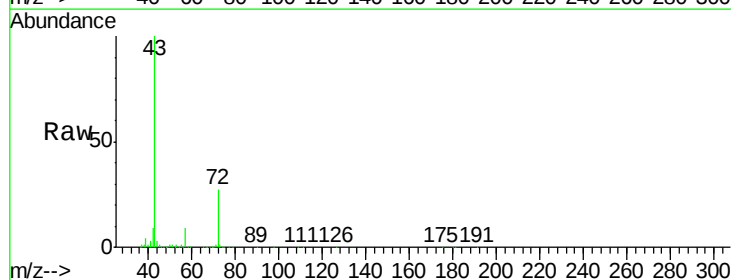
Manual Integrations  
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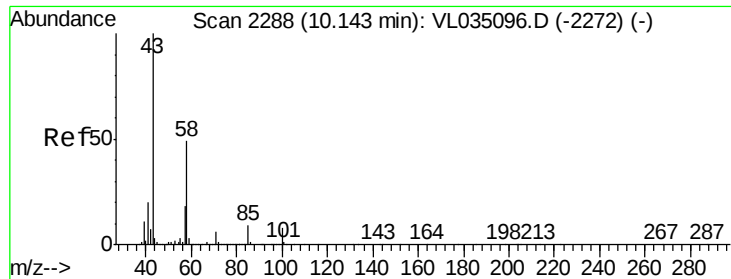
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 7/2/2020 5:00:41 PM



#34  
 2-Butanone  
 Concen: 33.248 ppbv  
 RT: 5.23 min Scan# 759  
 Delta R.T. 0.01 min  
 Lab File: VL035130.D  
 Acq: 30 Jun 2020 18:17

Tgt Ion: 43 Resp: 6047658  
 Ion Ratio Lower Upper  
 43 100  
 72 24.4 18.3 27.5





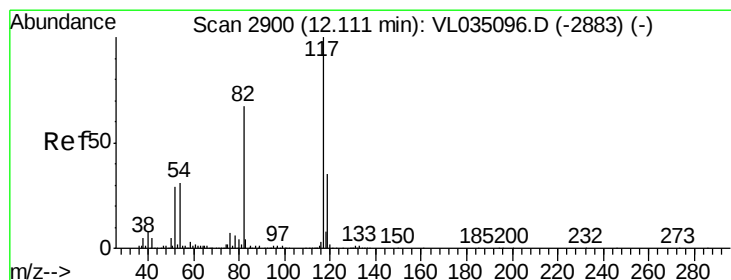
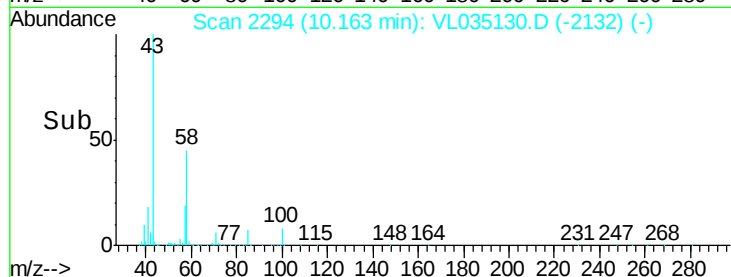
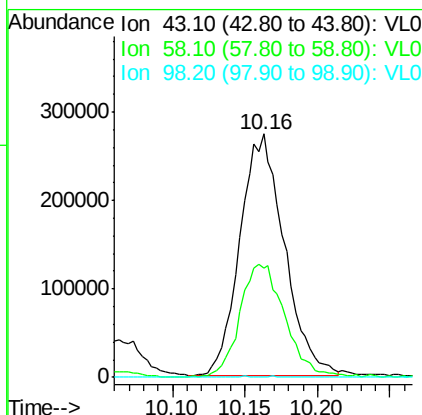
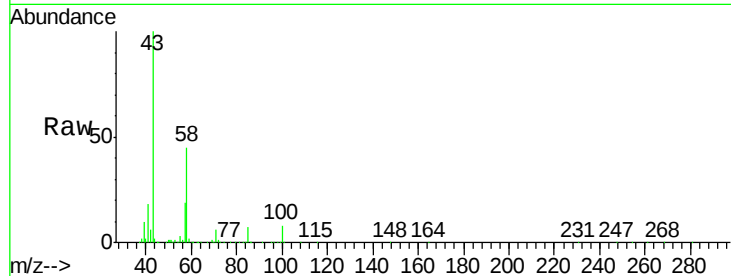
#51  
2-Hexanone  
Concen: 2.881 ppbv  
RT: 10.16 min Scan# 2294  
Delta R.T. 0.02 min  
Lab File: VL035130.D  
Acq: 30 Jun 2020 18:17

Instrument :  
MSVOA\_L  
ClientSampleId :  
MIDDLE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 47.9  | 39.2  | 58.8  |
| 98      | 0.4   | 0.3   | 0.5   |

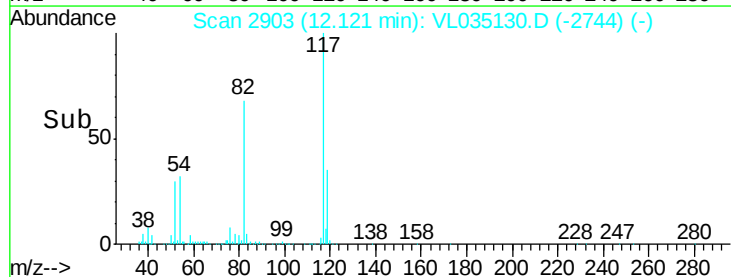
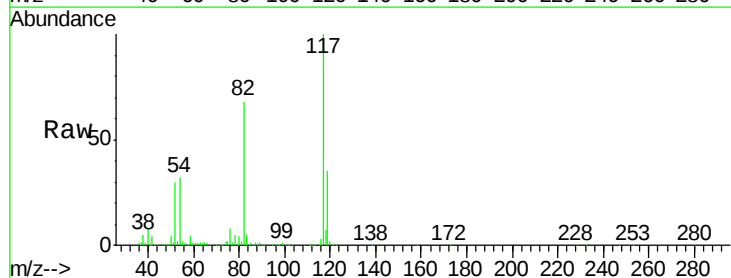
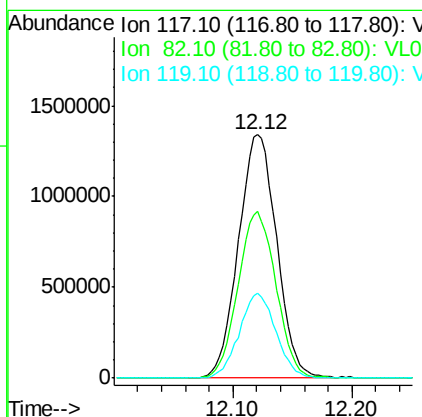
Manual Integrations  
APPROVED

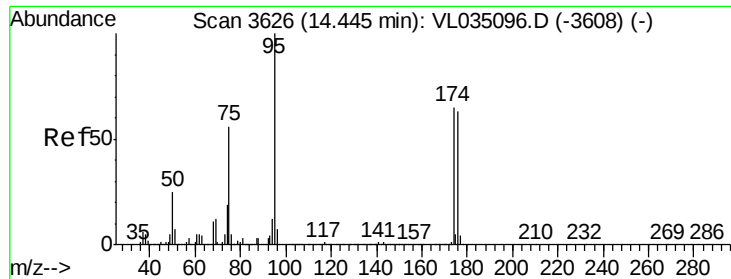
MMDadoda  
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#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.12 min Scan# 2903  
Delta R.T. 0.01 min  
Lab File: VL035130.D  
Acq: 30 Jun 2020 18:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 68.0  | 50.4  | 75.6  |
| 119     | 33.4  | 25.4  | 38.0  |





#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 9.956 ppbv  
 RT: 14.46 min Scan# 3629  
 Delta R.T. 0.01 min  
 Lab File: VL035130.D  
 Acq: 30 Jun 2020 18:17

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 MIDDLE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 67.5  | 52.2  | 78.2  |
| 175     | 5.1   | 4.0   | 6.0   |

Manual Integrations  
 APPROVED

MMDadoda  
 7/2/2020 5:00:41 PM

