

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022820\  
 Data File : VL034745.D  
 Acq On : 28 Feb 2020 20:27  
 Operator : SY/AP  
 Sample : L1661-06  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SG-6-CR-104

Manual Integrations  
 APPROVED

MMDadoda  
 3/2/2020 1:01:35 PM

Quant Time: Mar 02 12:09:00 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022620AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Feb 28 2020  
 QLast Update : Fri Feb 28 01:15:02 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.66  | 49   | 1059353  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.19  | 114  | 2140496  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.12 | 117  | 2260758  | 10.00 | ppbv  | 0.00     |

## System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.46  | 95    | 1858210  | 10.02    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 100.20% |

## Target Compounds

|                              |       |     |         |         |      | Ovalue |
|------------------------------|-------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane   | 3.02  | 85  | 34155   | 0.204   | ppbv | # 83   |
| 4) Chloromethane             | 3.11  | 50  | 22649m  | 0.354   | ppbv |        |
| 7) Chloroethane              | 3.54  | 64  | 5505m   | 0.236   | ppbv |        |
| 9) Propene                   | 2.98  | 41  | 29901   | 0.626   | ppbv | 86     |
| 10) Heptane                  | 8.14  | 43  | 78459   | 0.638   | ppbv | 99     |
| 11) Trichlorofluoromethane   | 3.93  | 101 | 42523   | 0.291   | ppbv | 93     |
| 13) Ethanol                  | 3.59  | 45  | 2320130 | 153.684 | ppbv | 97     |
| 15) Acetone                  | 3.82  | 43  | 2423716 | 20.078  | ppbv | 99     |
| 17) tert-Butyl alcohol       | 4.29  | 59  | 499888  | 5.404   | ppbv | 99     |
| 19) Isopropyl Alcohol        | 3.96  | 45  | 4146200 | 57.664  | ppbv | # 99   |
| 20) Methylene Chloride       | 4.32  | 84  | 301879  | 6.724   | ppbv | 99     |
| 22) trans-1,2-Dichloroethene | 4.87  | 96  | 4862m   | 0.108   | ppbv |        |
| 26) Hexane                   | 5.68  | 57  | 186708  | 1.896   | ppbv | # 53   |
| 29) Chloroform               | 5.75  | 83  | 69185   | 0.441   | ppbv | 94     |
| 30) Cyclohexane              | 7.14  | 84  | 29618m  | 0.388   | ppbv |        |
| 31) cis-1,2-Dichloroethene   | 5.55  | 61  | 26111   | 0.269   | ppbv | # 87   |
| 34) 2-Butanone               | 5.23  | 43  | 407454  | 3.024   | ppbv | 98     |
| 35) Carbon Tetrachloride     | 7.02  | 117 | 10631m  | 0.074   | ppbv |        |
| 36) Benzene                  | 6.90  | 78  | 91109m  | 0.493   | ppbv |        |
| 38) Trichloroethene          | 7.85  | 130 | 419670  | 5.889   | ppbv | 97     |
| 40) 1,4-Dioxane              | 7.86  | 88  | 17512m  | 0.700   | ppbv |        |
| 41) Tetrahydrofuran          | 6.05  | 42  | 130634  | 1.837   | ppbv | 99     |
| 44) 2,2,4-Trimethylpentane   | 7.88  | 57  | 218528  | 0.676   | ppbv | # 83   |
| 50) 4-Methyl-2-Pentanone     | 8.77  | 43  | 89305   | 0.468   | ppbv | 97     |
| 52) Tetrachloroethene        | 11.26 | 164 | 22077m  | 0.326   | ppbv |        |
| 53) Toluene                  | 9.83  | 91  | 946813  | 4.815   | ppbv | 99     |
| 58) Ethyl Benzene            | 12.75 | 91  | 247931m | 0.906   | ppbv |        |
| 59) m/p-Xylene               | 13.00 | 91  | 769447  | 3.225   | ppbv | 100    |
| 60) o-Xylene                 | 13.73 | 91  | 294176  | 1.243   | ppbv | 98     |
| 61) Styrene                  | 13.56 | 104 | 23807m  | 0.157   | ppbv |        |
| 64) n-propylbenzene          | 15.60 | 120 | 16871m  | 0.190   | ppbv |        |
| 69) p-Isopropyltoluene       | 17.70 | 119 | 507795  | 1.438   | ppbv | # 92   |
| 70) n-Butylbenzene           | 18.61 | 91  | 58746m  | 0.153   | ppbv |        |
| 72) 4-Ethyltoluene           | 15.88 | 105 | 100173m | 0.380   | ppbv |        |
| 73) 1,3,5-Trimethylbenzene   | 16.04 | 105 | 133646m | 0.527   | ppbv |        |
| 74) 1,2,4-Trimethylbenzene   | 16.80 | 105 | 461616  | 1.649   | ppbv | # 68   |
| 76) 1,4-Dichlorobenzene      | 17.19 | 146 | 27845m  | 0.172   | ppbv |        |
| 79) Naphthalene              | 22.27 | 128 | 48887m  | 0.198   | ppbv |        |

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

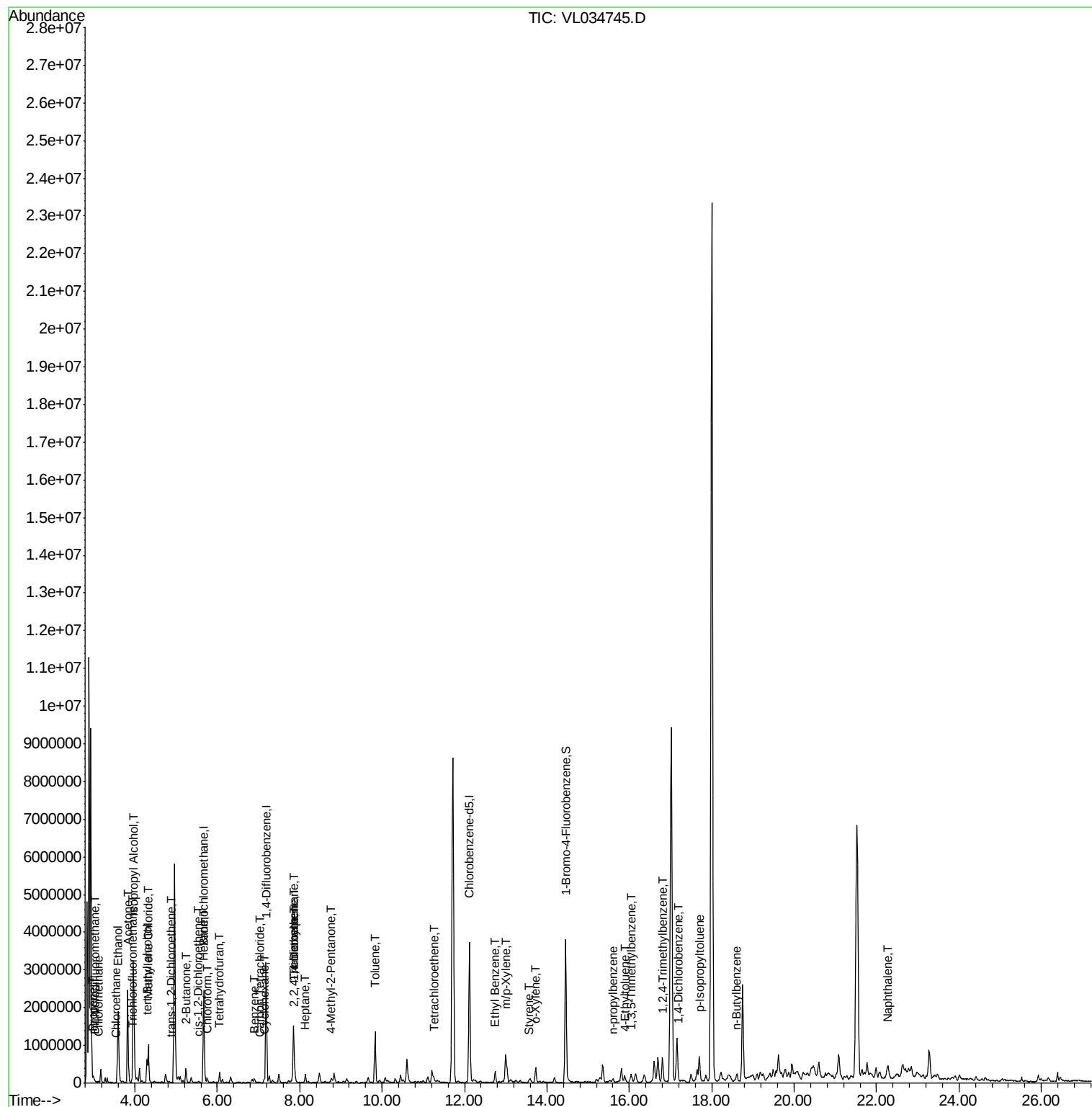
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL022820\  
Data File : VL034745.D  
Acq On : 28 Feb 2020 20:27  
Operator : SY/AP  
Sample : L1661-06  
Misc : 400ml/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

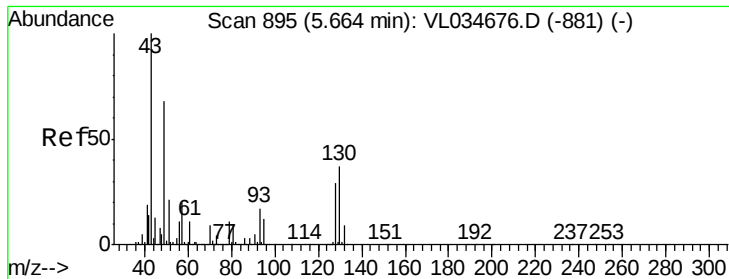
Instrument :  
MSVOA\_L  
ClientSampleId :  
SG-6-CR-104

Manual Integrations  
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3/2/2020 1:01:35 PM

Quant Time: Mar 02 12:09:00 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL022620AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Feb  
QLast Update : Fri Feb 28 01:15:02 2020  
Response via : Initial Calibration





#1

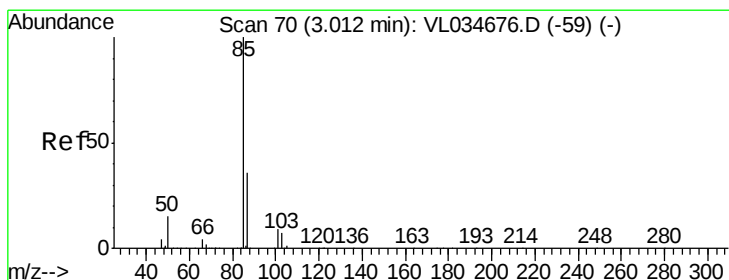
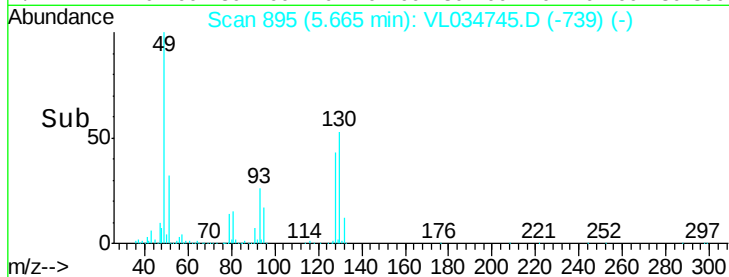
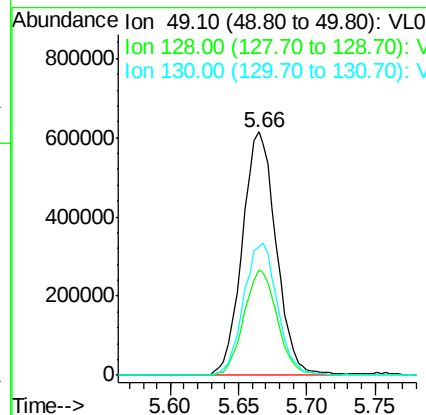
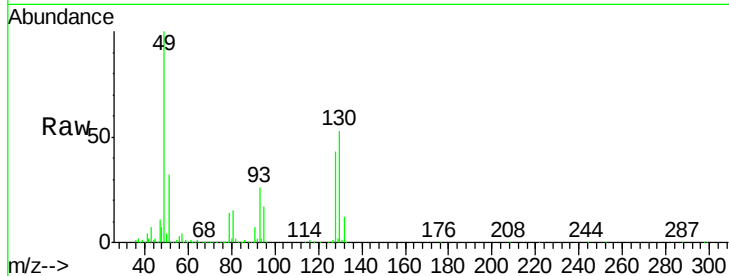
Bromochloromethane  
 Concen: 10.000 ppbv  
 RT: 5.66 min Scan# 895  
 Delta R.T. 0.00 min  
 Lab File: VL034745.D  
 Acq: 28 Feb 2020 20:27

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SG-6-CR-104

| Tot Ion | 49    | Resp  | 1059353 |
|---------|-------|-------|---------|
| Ion     | Ratio | Lower | Upper   |
| 49      | 100   |       |         |
| 128     | 43.0  | 21.6  | 65.0    |
| 130     | 54.4  | 27.7  | 83.1    |

Manual Integrations  
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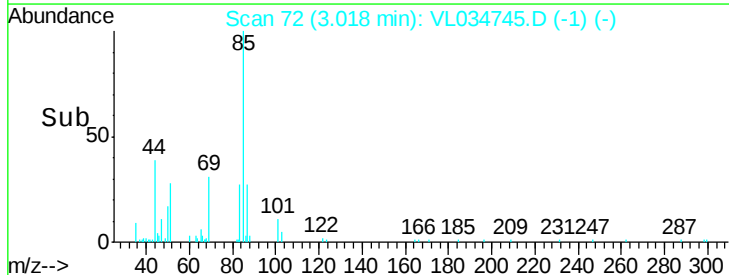
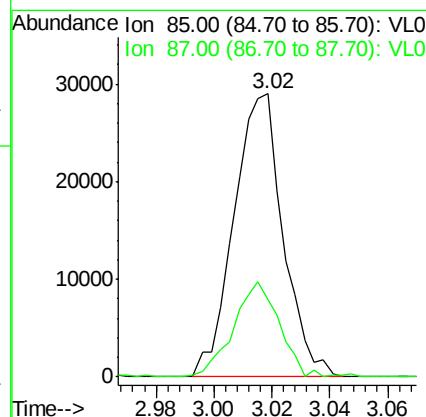
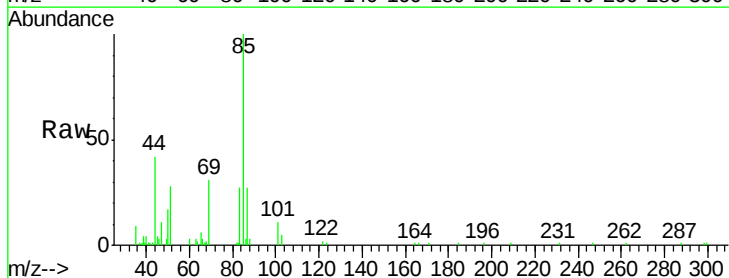
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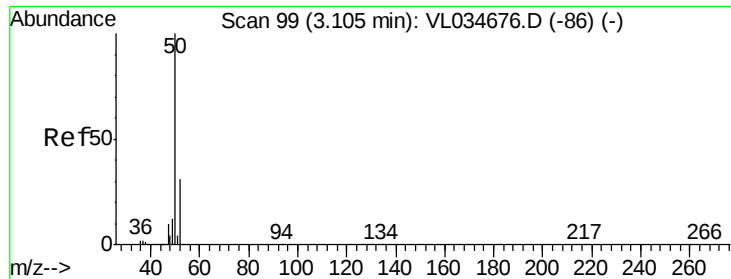


#2

Dichlorodifluoromethane  
 Concen: 0.204 ppbv  
 RT: 3.02 min Scan# 72  
 Delta R.T. 0.01 min  
 Lab File: VL034745.D  
 Acq: 28 Feb 2020 20:27

| Tgt Ion | 85    | Resp  | 34155 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 85      | 100   |       |       |
| 87      | 26.6  | 29.2  | 43.8# |





#4

Chloromethane

Concen: 0.354 ppbv m

RT: 3.11 min Scan# 101

Delta R.T. 0.01 min

Lab File: VL034745.D

Acq: 28 Feb 2020 20:27

Instrument :

MSVOA\_L

ClientSampleId :

SG-6-CR-104

Tot Ion: 50 Resp: 22649

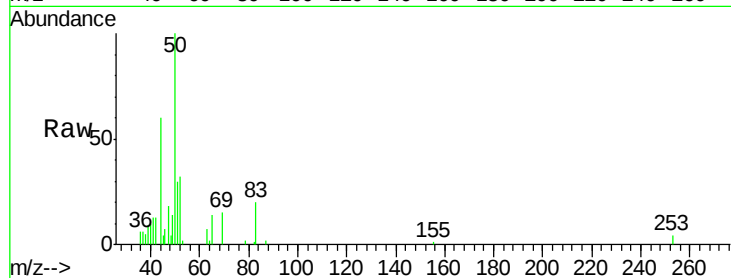
Ion Ratio Lower Upper

50 100

52 31.7 25.0 37.4

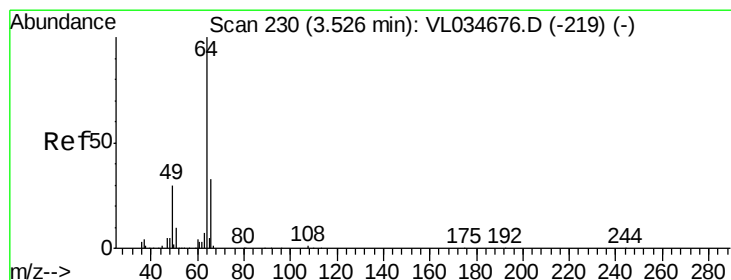
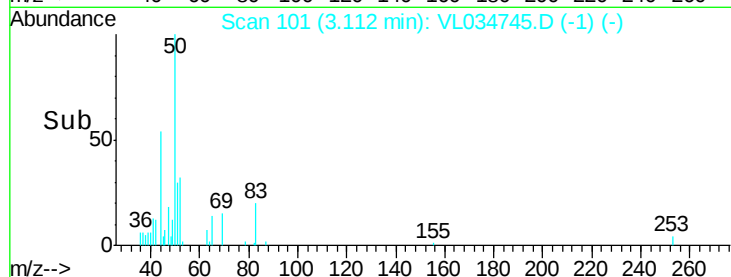
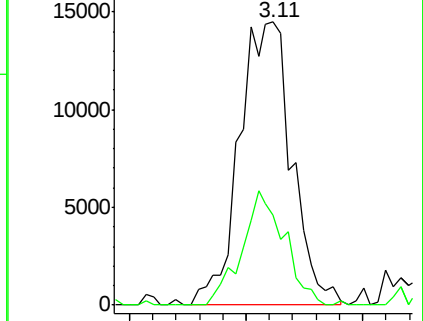
Manual Integrations  
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Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#7

Chloroethane

Concen: 0.236 ppbv m

RT: 3.54 min Scan# 233

Delta R.T. 0.01 min

Lab File: VL034745.D

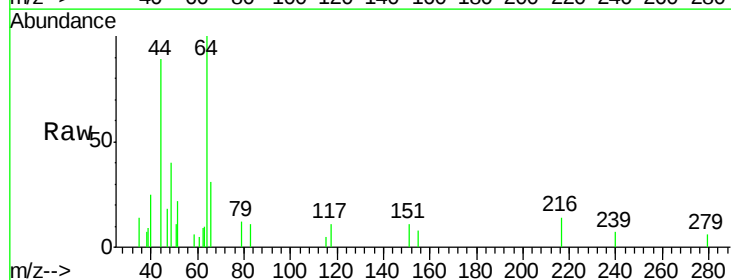
Acq: 28 Feb 2020 20:27

Tgt Ion: 64 Resp: 5505

Ion Ratio Lower Upper

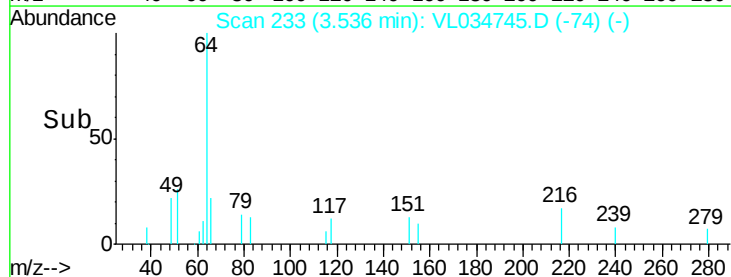
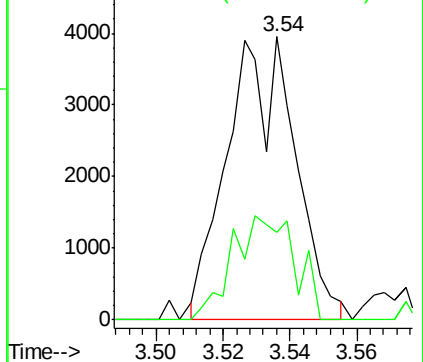
64 100

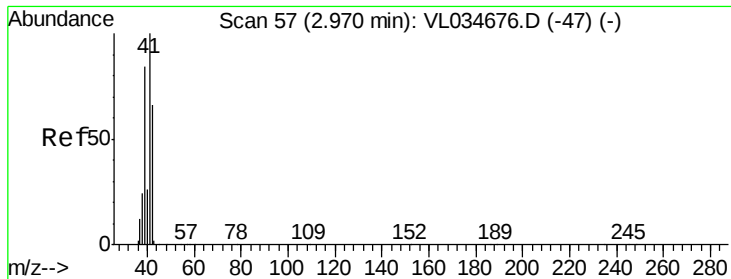
66 30.9 26.7 40.1



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0





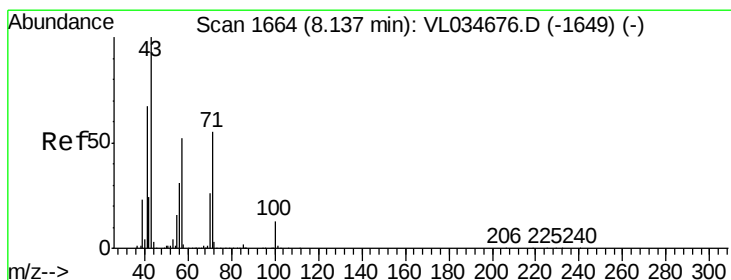
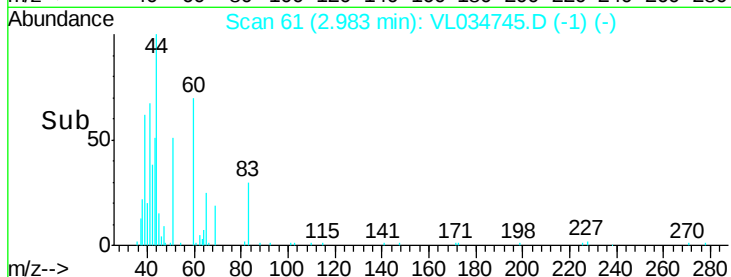
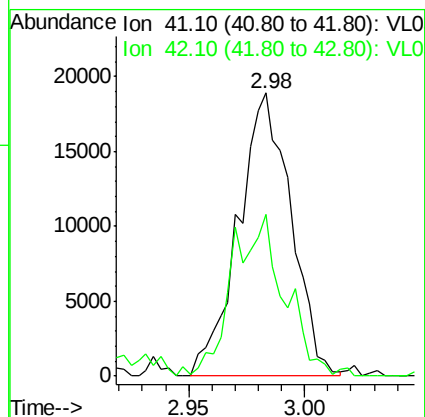
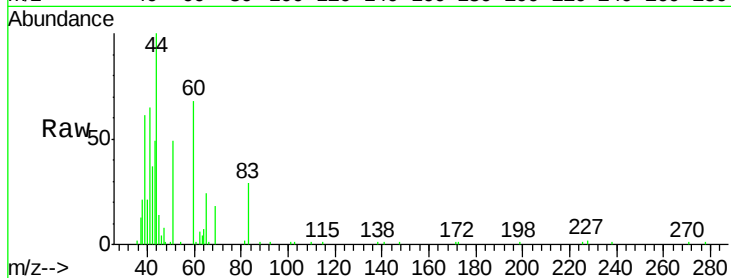
#9  
 Propene  
 Concen: 0.626 ppbv  
 RT: 2.98 min Scan# 61  
 Delta R.T. 0.01 min  
 Lab File: VL034745.D  
 Acq: 28 Feb 2020 20:27

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SG-6-CR-104

Tot Ion: 41 Resp: 29901  
 Ion Ratio Lower Upper  
 41 100  
 42 57.3 54.9 82.3

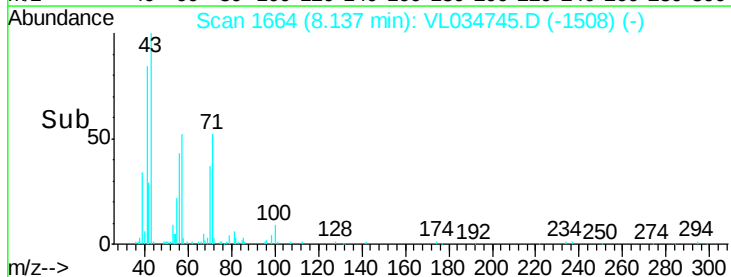
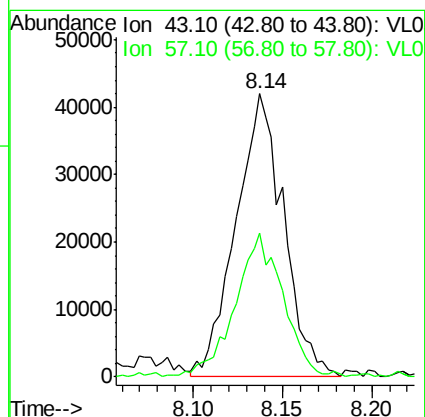
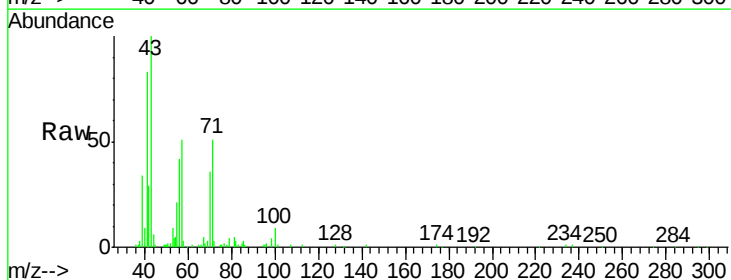
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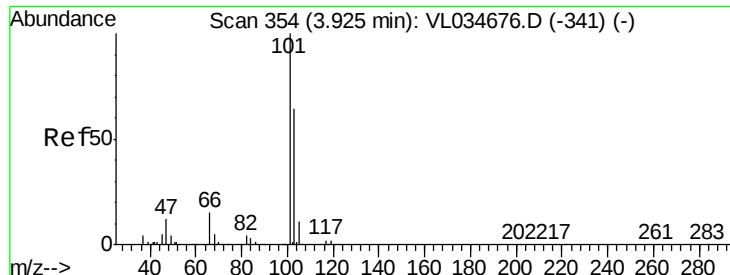
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#10  
 Heptane  
 Concen: 0.638 ppbv  
 RT: 8.14 min Scan# 1664  
 Delta R.T. 0.00 min  
 Lab File: VL034745.D  
 Acq: 28 Feb 2020 20:27

Tgt Ion: 43 Resp: 78459  
 Ion Ratio Lower Upper  
 43 100  
 57 52.1 41.0 61.6





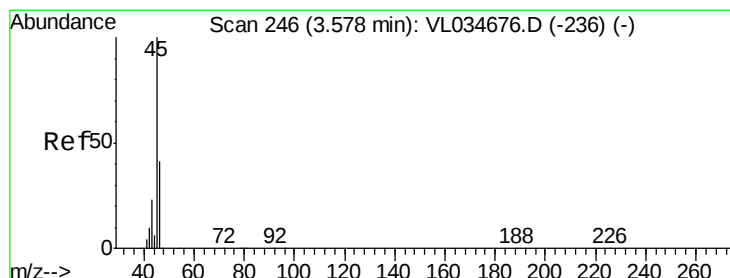
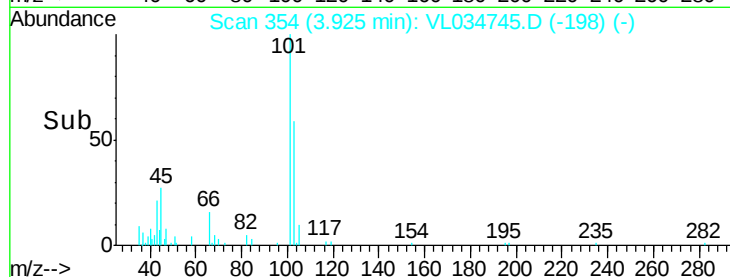
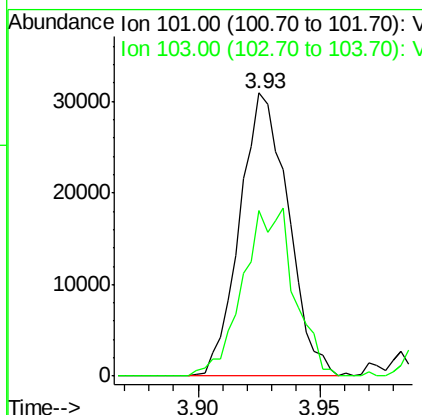
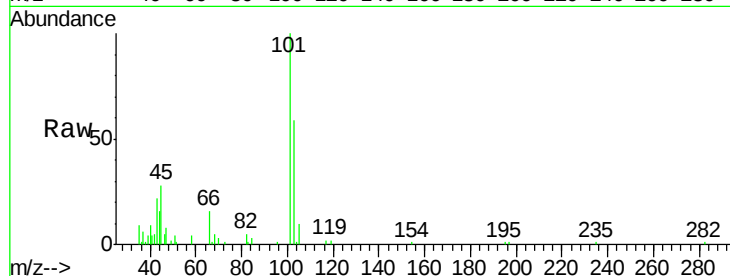
#11  
Trichlorofluoromethane  
Concen: 0.291 ppbv  
RT: 3.93 min Scan# 354  
Delta R.T. 0.00 min  
Lab File: VL034745.D  
Acq: 28 Feb 2020 20:27

Instrument :  
MSVOA\_L  
ClientSampleId :  
SG-6-CR-104

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 101     | 100   |       |       |
| 103     | 58.7  | 51.2  | 76.8  |

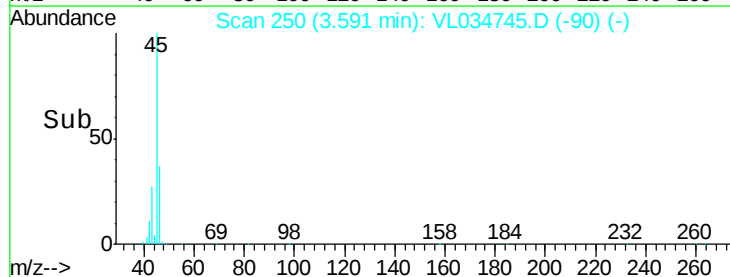
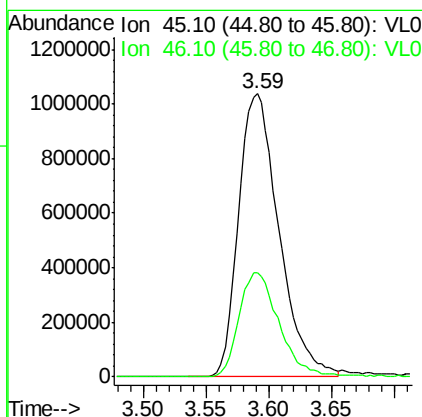
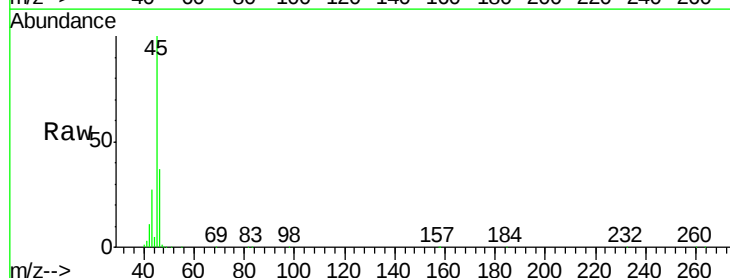
Manual Integrations  
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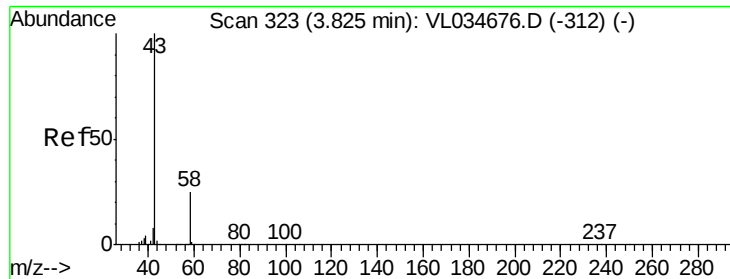
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3/2/2020 1:01:35 PM



#13  
Ethanol  
Concen: 153.684 ppbv  
RT: 3.59 min Scan# 250  
Delta R.T. 0.01 min  
Lab File: VL034745.D  
Acq: 28 Feb 2020 20:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 45      | 100   |       |       |
| 46      | 36.7  | 15.4  | 61.4  |





#15

Acetone

Concen: 20.078 ppbv

RT: 3.82 min Scan# 322

Delta R.T. -0.00 min

Lab File: VL034745.D

Acq: 28 Feb 2020 20:27

Instrument :

MSVOA\_L

ClientSampleId :

SG-6-CR-104

Tot Ion: 43 Resp: 2423716

Ion Ratio Lower Upper

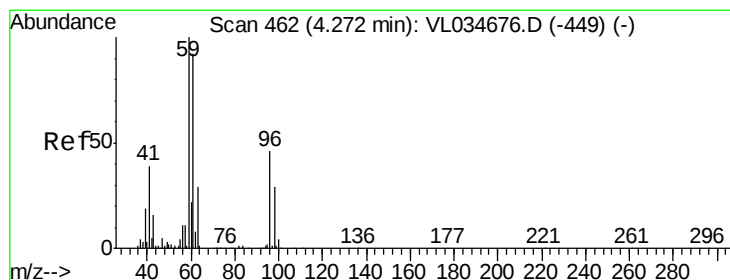
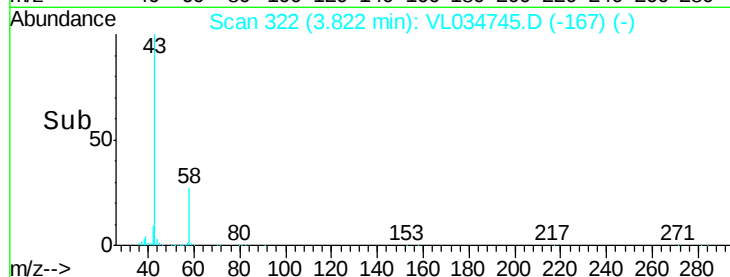
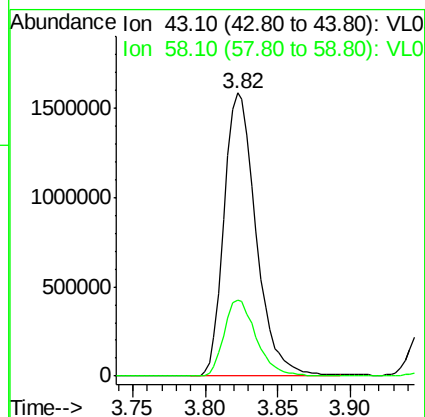
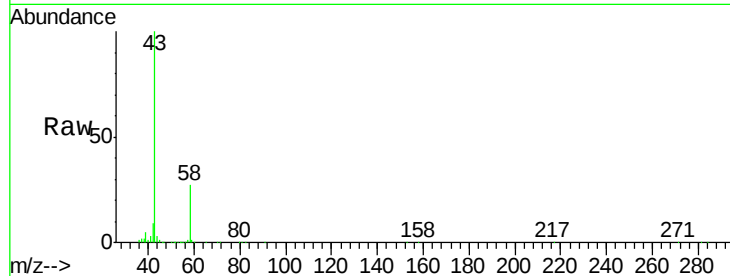
43 100

58 27.1 21.4 32.0

Manual Integrations  
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#17

tert-Butyl alcohol

Concen: 5.404 ppbv

RT: 4.29 min Scan# 468

Delta R.T. 0.02 min

Lab File: VL034745.D

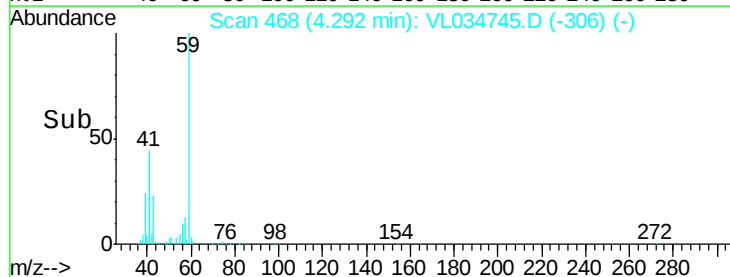
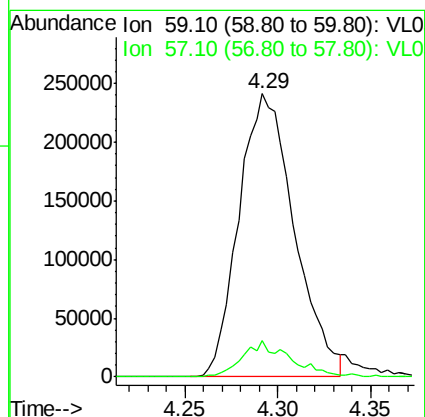
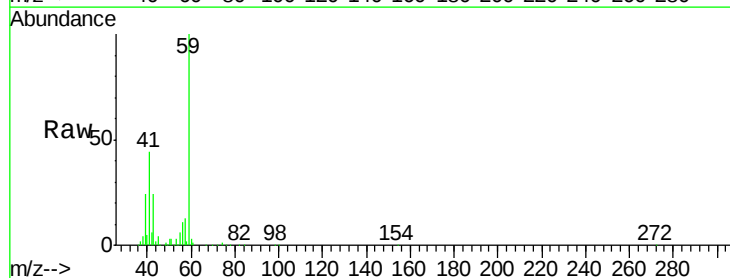
Acq: 28 Feb 2020 20:27

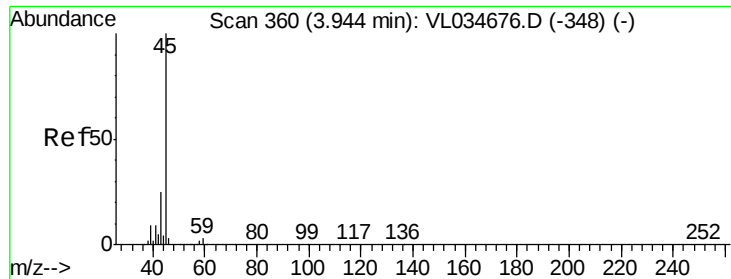
Tgt Ion: 59 Resp: 499888

Ion Ratio Lower Upper

59 100

57 11.2 8.8 13.2





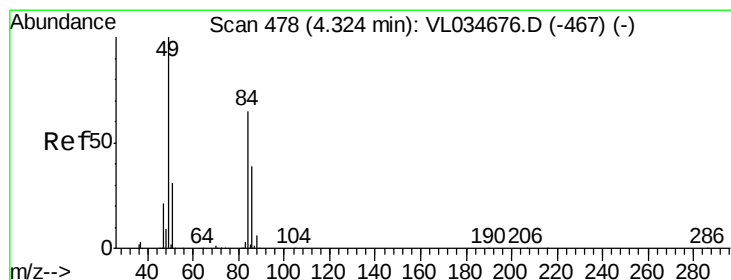
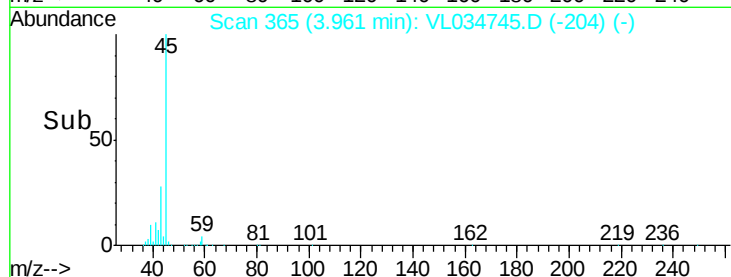
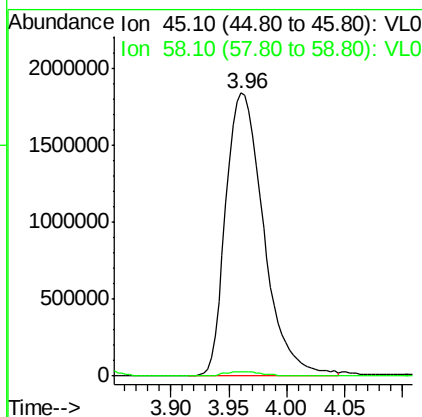
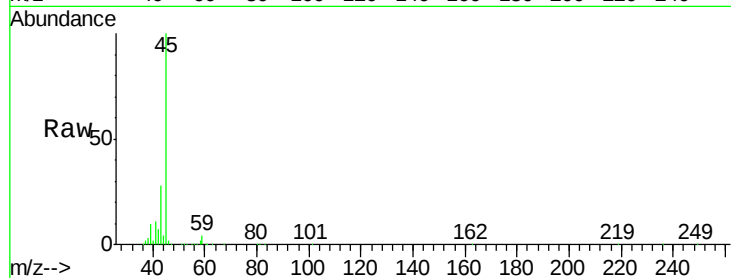
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Isopropyl Alcohol  
Concen: 57.664 ppbv  
RT: 3.96 min Scan# 365  
Delta R.T. 0.02 min  
Lab File: VL034745.D  
Acq: 28 Feb 2020 20:27

Instrument :  
MSVOA\_L  
ClientSampleId :  
SG-6-CR-104

Tot Ion: 45 Resp: 4146200  
Ion Ratio Lower Upper  
45 100  
58 1.7 1.8 2.6#

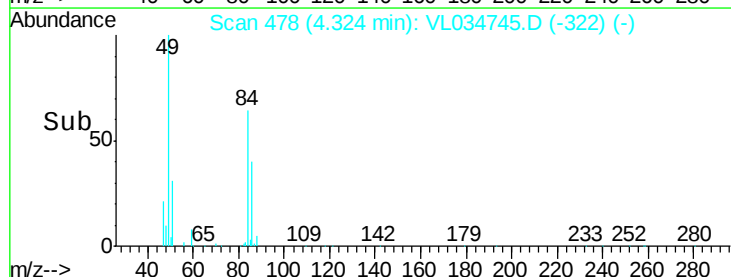
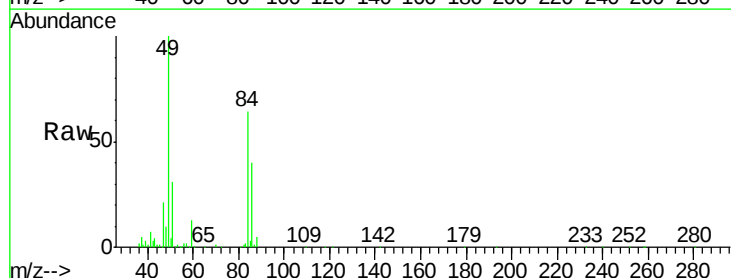
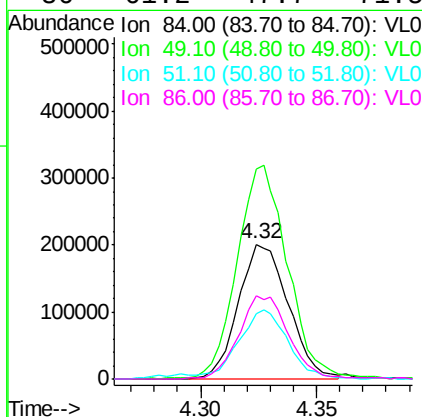
Manual Integrations  
APPROVED

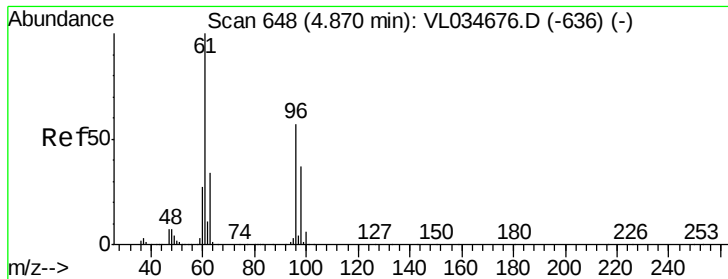
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#20  
Methylene Chloride  
Concen: 6.724 ppbv  
RT: 4.32 min Scan# 478  
Delta R.T. 0.00 min  
Lab File: VL034745.D  
Acq: 28 Feb 2020 20:27

Tgt Ion: 84 Resp: 301879  
Ion Ratio Lower Upper  
84 100  
49 154.6 122.8 184.2  
51 47.4 38.6 58.0  
86 61.2 47.7 71.5





#22

trans-1,2-Dichloroethene

Concen: 0.108 ppbv m

RT: 4.87 min Scan# 649

Delta R.T. 0.00 min

Lab File: VL034745.D

Acq: 28 Feb 2020 20:27

Instrument :

MSVOA\_L

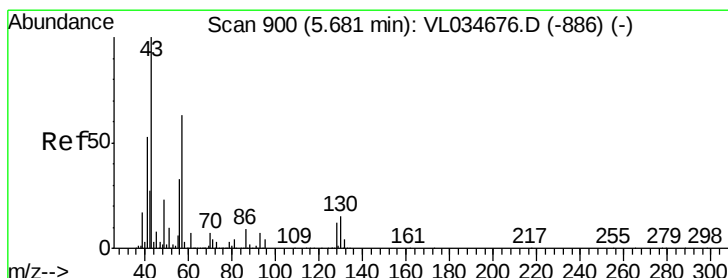
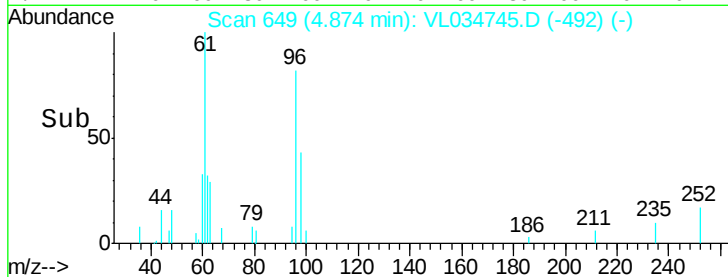
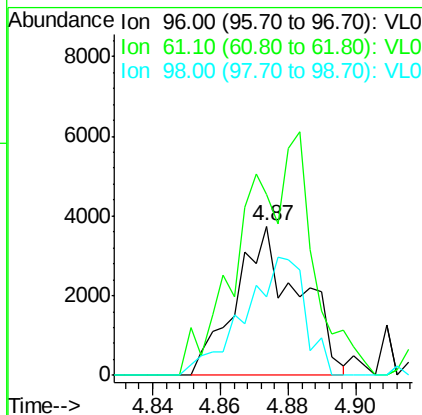
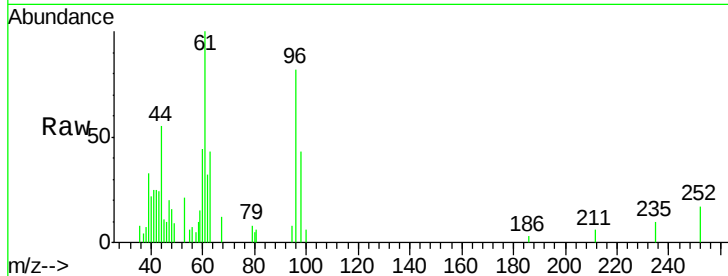
ClientSampleId :

SG-6-CR-104

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 96    | Resp: | 4862   |
| Ion      | Ratio | Lower | Upper  |
| 96       | 100   |       |        |
| 61       | 121.9 | 139.4 | 209.0# |
| 98       | 52.3  | 51.3  | 76.9   |

Manual Integrations  
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#26

Hexane

Concen: 1.896 ppbv

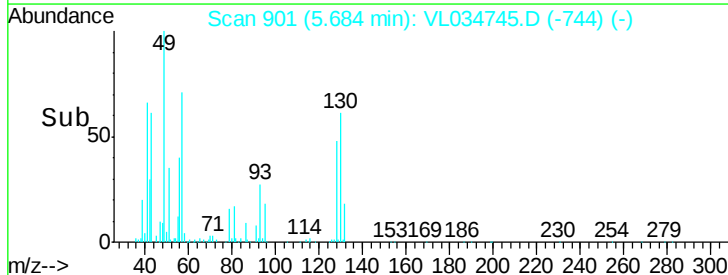
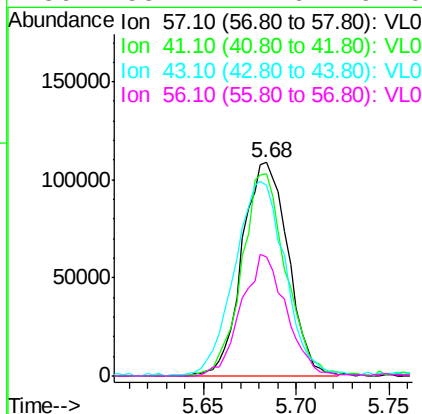
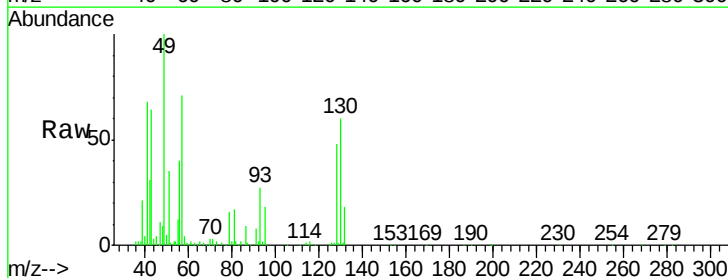
RT: 5.68 min Scan# 901

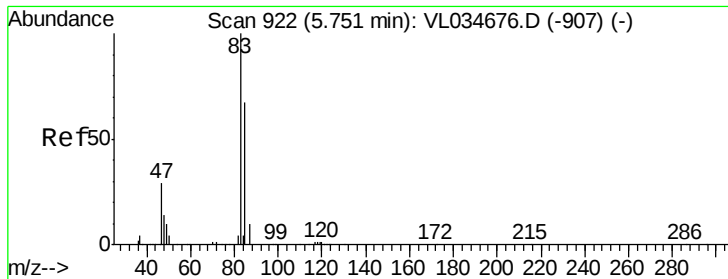
Delta R.T. 0.00 min

Lab File: VL034745.D

Acq: 28 Feb 2020 20:27

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 57    | Resp: | 186708 |
| Ion      | Ratio | Lower | Upper  |
| 57       | 100   |       |        |
| 41       | 92.6  | 70.3  | 105.5  |
| 43       | 101.5 | 177.0 | 265.4# |
| 56       | 55.7  | 42.6  | 64.0   |





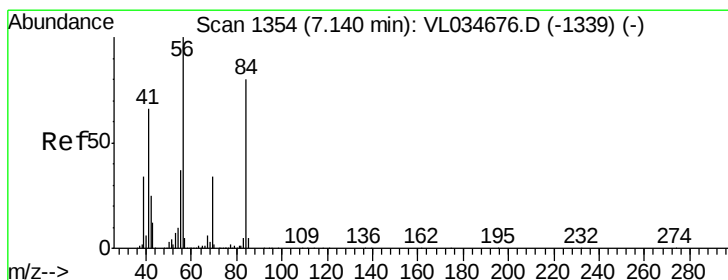
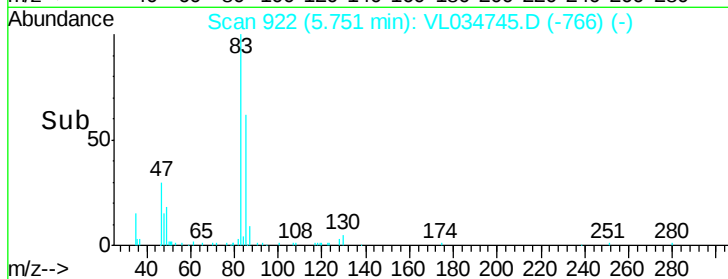
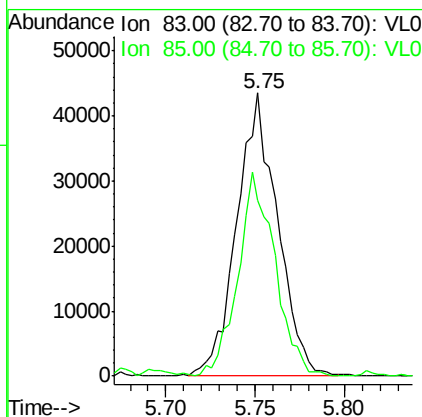
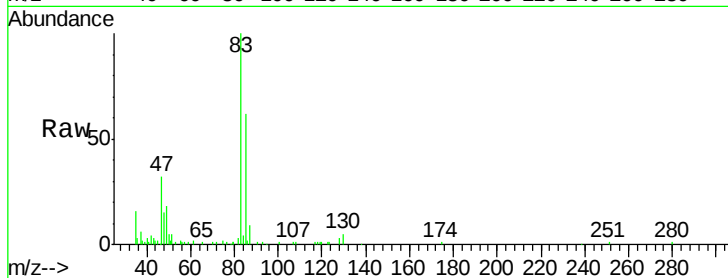
#29  
Chloroform  
Concen: 0.441 ppbv  
RT: 5.75 min Scan# 922  
Delta R.T. 0.00 min  
Lab File: VL034745.D  
Acq: 28 Feb 2020 20:27

Instrument :  
MSVOA\_L  
ClientSampleId :  
SG-6-CR-104

| Tot Ion   | 83    | Resp  | 69185 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 83        | 100   |       |       |
| 85        | 62.3  | 53.9  | 80.9  |

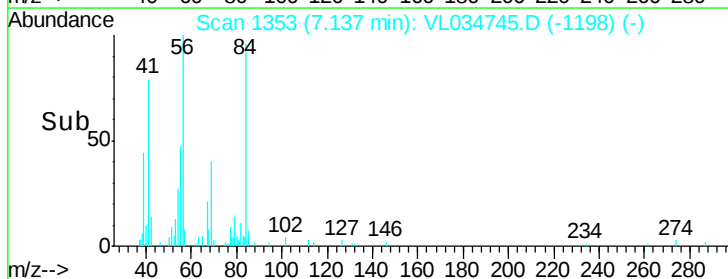
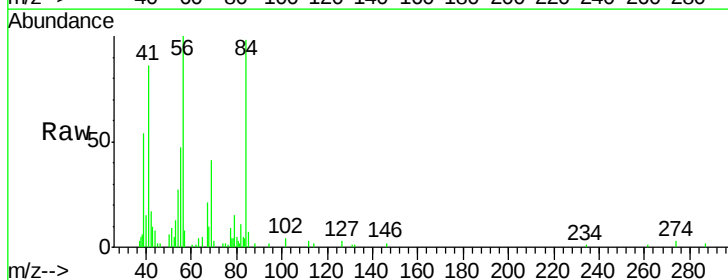
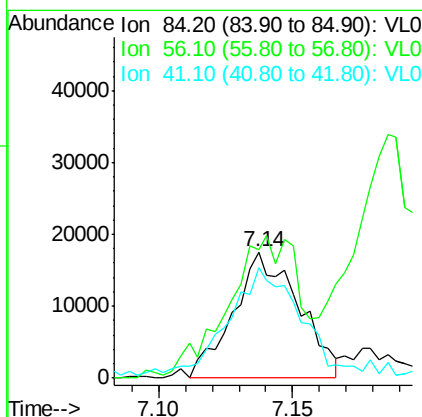
Manual Integrations  
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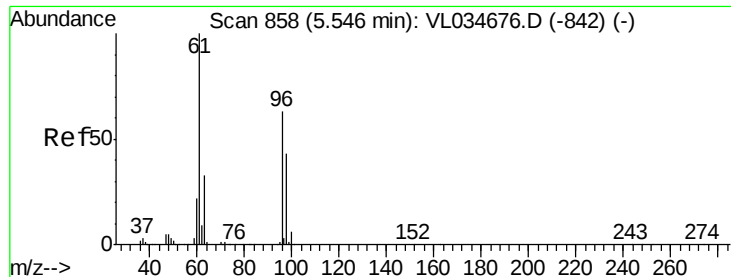
MMDadoda  
3/2/2020 1:01:35 PM



#30  
Cyclohexane  
Concen: 0.388 ppbv m  
RT: 7.14 min Scan# 1353  
Delta R.T. -0.00 min  
Lab File: VL034745.D  
Acq: 28 Feb 2020 20:27

| Tgt Ion   | 84    | Resp  | 29618 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 84        | 100   |       |       |
| 56        | 127.9 | 113.4 | 170.2 |
| 41        | 99.6  | 68.2  | 102.4 |





#31

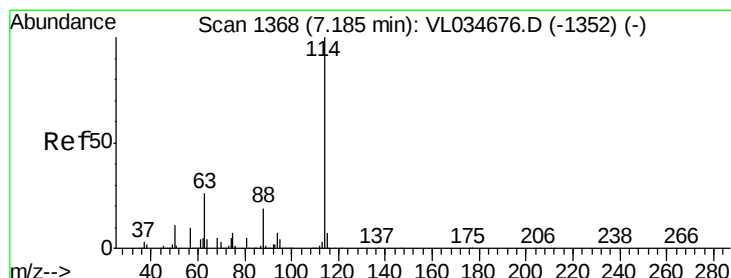
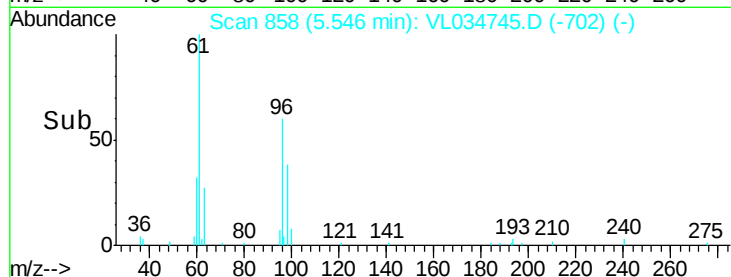
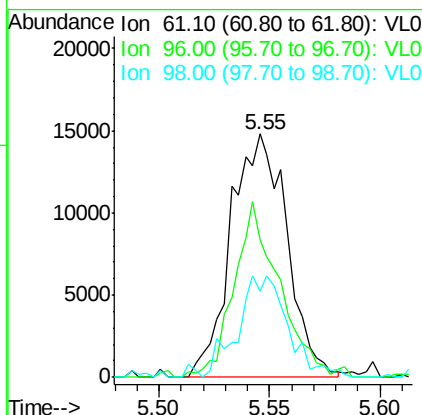
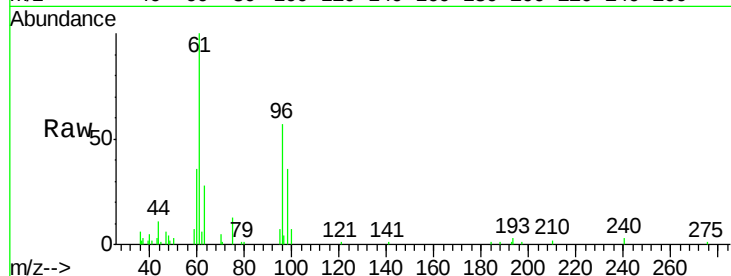
cis-1,2-Dichloroethene  
Concen: 0.269 ppbv  
RT: 5.55 min Scan# 858  
Delta R.T. 0.00 min  
Lab File: VL034745.D  
Acq: 28 Feb 2020 20:27

Instrument :  
MSVOA\_L  
ClientSampleId :  
SG-6-CR-104

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 61      | 100   |       |       |
| 96      | 54.3  | 50.2  | 75.2  |
| 98      | 32.2  | 34.3  | 51.5# |

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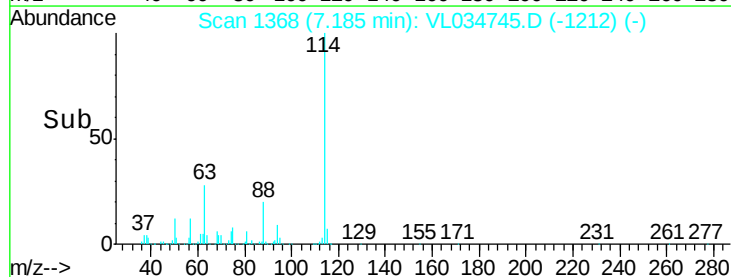
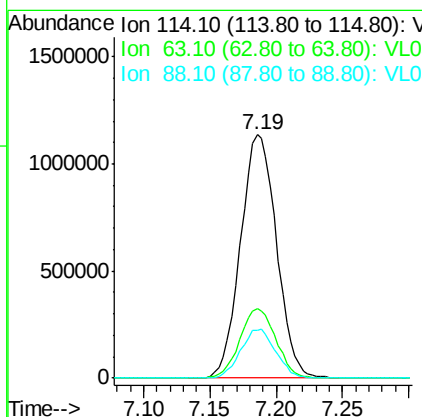
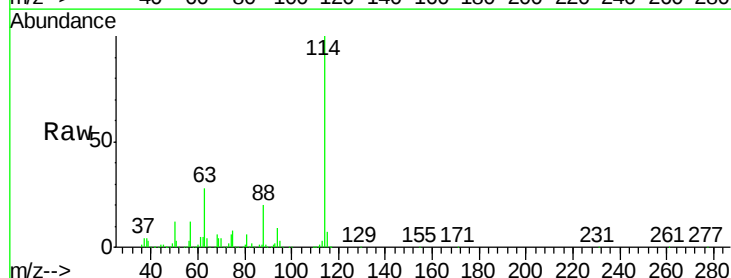
MMDadoda  
3/2/2020 1:01:35 PM

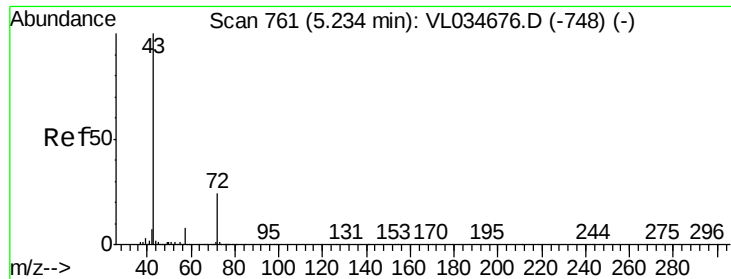


#33

1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 7.19 min Scan# 1368  
Delta R.T. 0.00 min  
Lab File: VL034745.D  
Acq: 28 Feb 2020 20:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 28.8  | 22.9  | 34.3  |
| 88      | 19.6  | 15.8  | 23.6  |





#34

2-Butanone

Concen: 3.024 ppbv

RT: 5.23 min Scan# 761

Delta R.T. 0.00 min

Lab File: VL034745.D

Acq: 28 Feb 2020 20:27

Instrument :

MSVOA\_L

ClientSampleId :

SG-6-CR-104

Tot Ion: 43 Resp: 407454

Ion Ratio Lower Upper

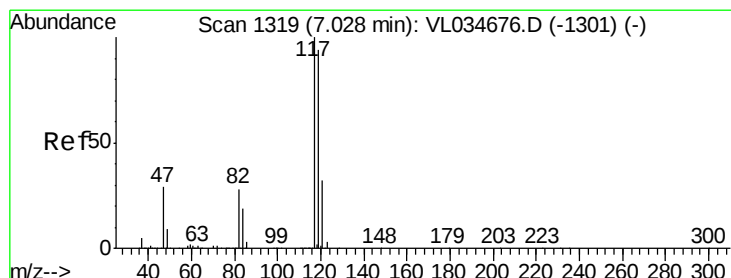
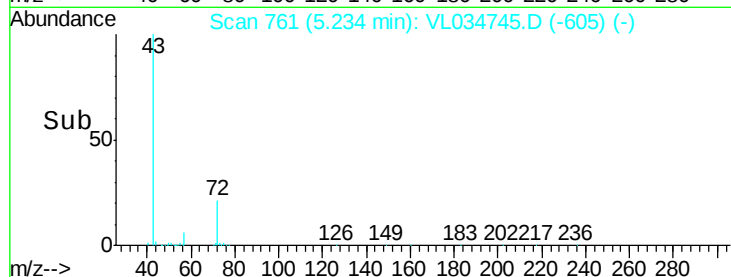
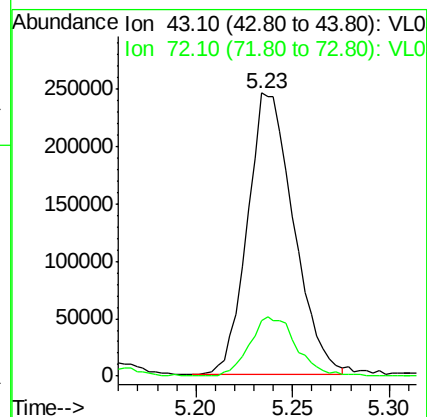
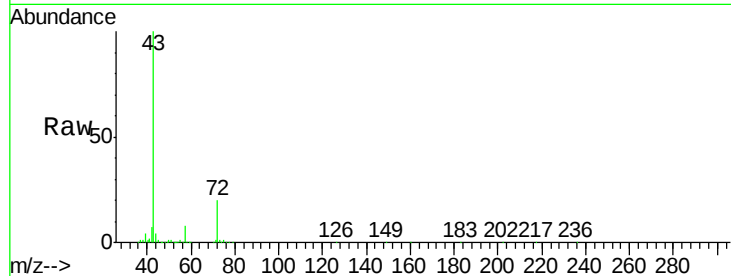
43 100

72 21.7 18.2 27.2

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#35

Carbon Tetrachloride

Concen: 0.074 ppbv m

RT: 7.02 min Scan# 1316

Delta R.T. -0.01 min

Lab File: VL034745.D

Acq: 28 Feb 2020 20:27

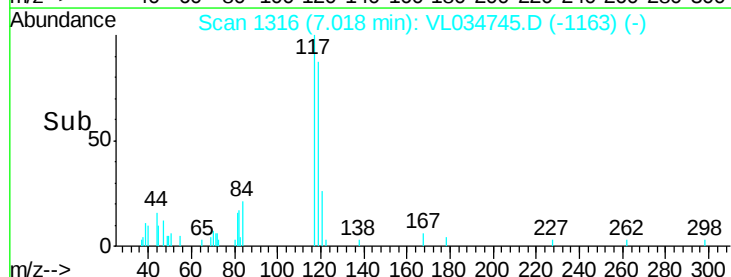
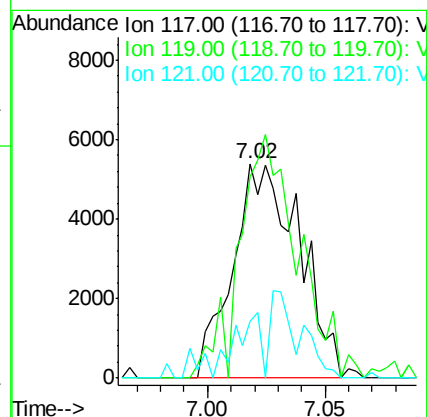
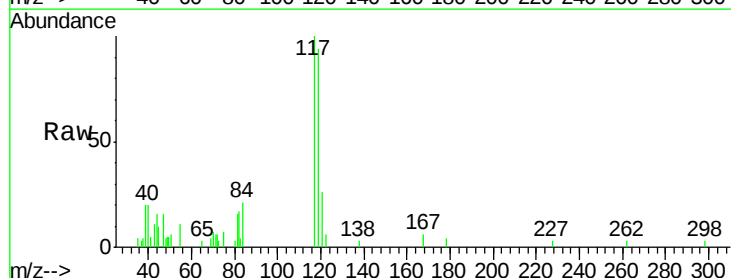
Tgt Ion: 117 Resp: 10631

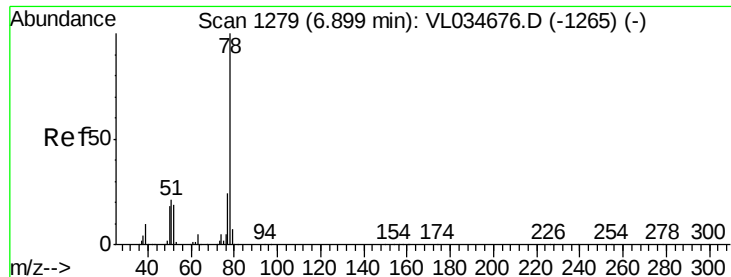
Ion Ratio Lower Upper

117 100

119 94.0 75.5 113.3

121 26.1 25.4 38.0





#36

Benzene

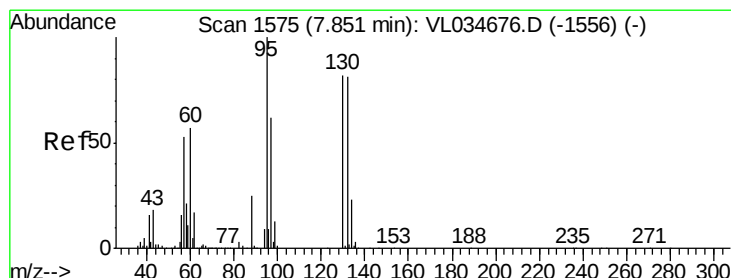
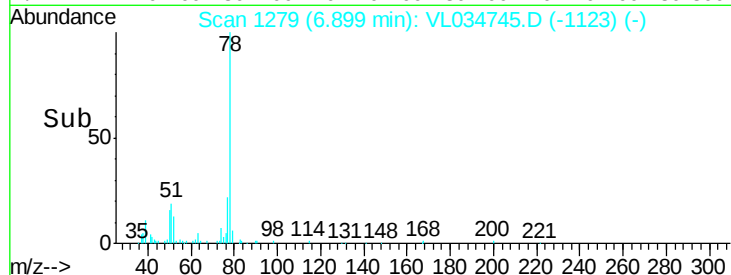
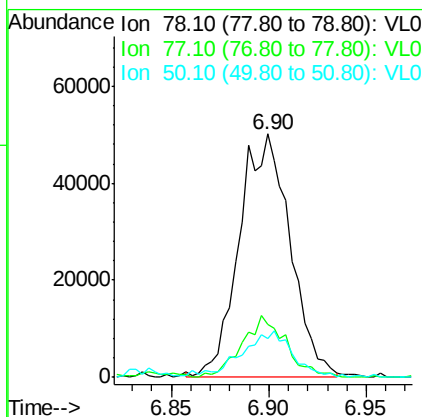
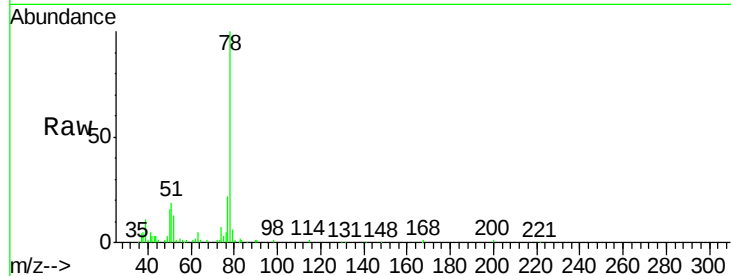
Concen: 0.493 ppbv m  
RT: 6.90 min Scan# 1279  
Delta R.T. 0.00 min  
Lab File: VL034745.D  
Acq: 28 Feb 2020 20:27

Instrument :  
MSVOA\_L  
ClientSampleId :  
SG-6-CR-104

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 78      | 100   |       |       |
| 77      | 21.9  | 19.5  | 29.3  |
| 50      | 16.2  | 14.6  | 21.8  |

Manual Integrations  
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3/2/2020 1:01:35 PM

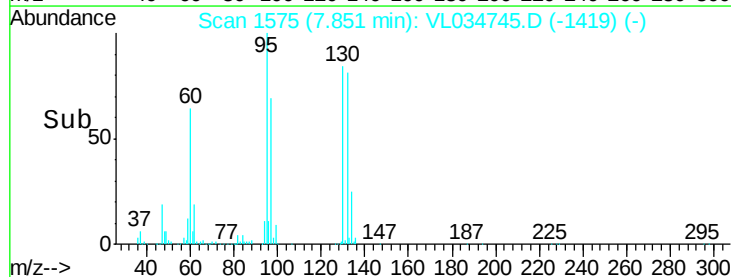
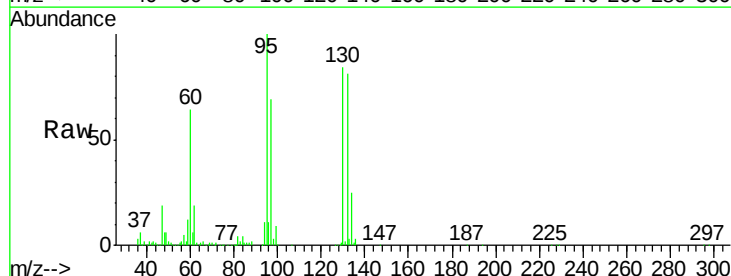
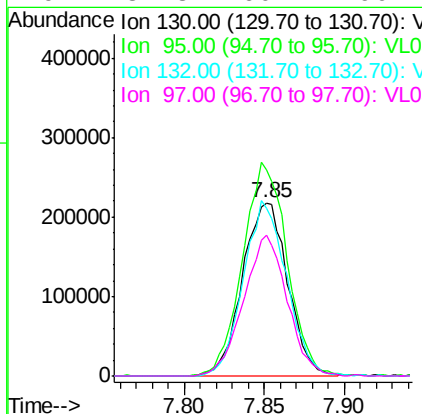


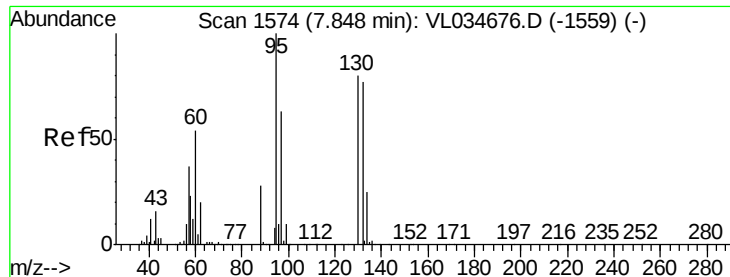
#38

Trichloroethene

Concen: 5.889 ppbv  
RT: 7.85 min Scan# 1575  
Delta R.T. 0.00 min  
Lab File: VL034745.D  
Acq: 28 Feb 2020 20:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 130     | 100   |       |       |
| 95      | 118.5 | 97.1  | 145.7 |
| 132     | 96.8  | 78.3  | 117.5 |
| 97      | 81.3  | 60.1  | 90.1  |





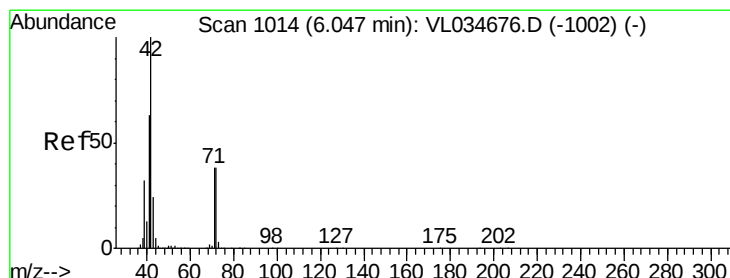
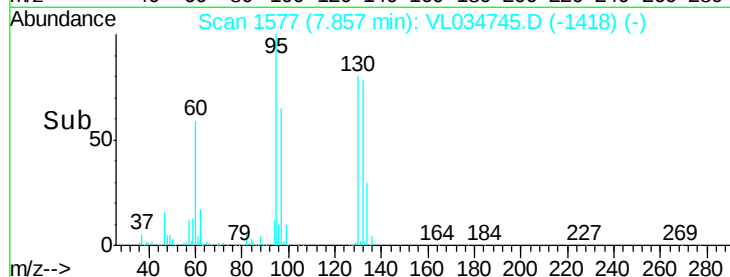
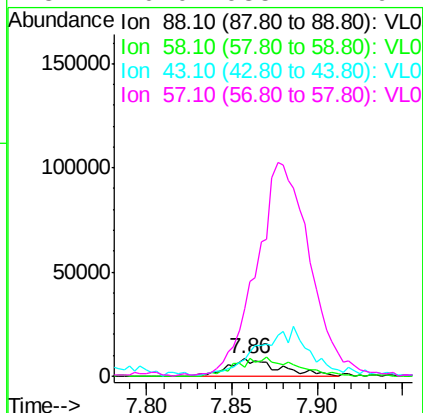
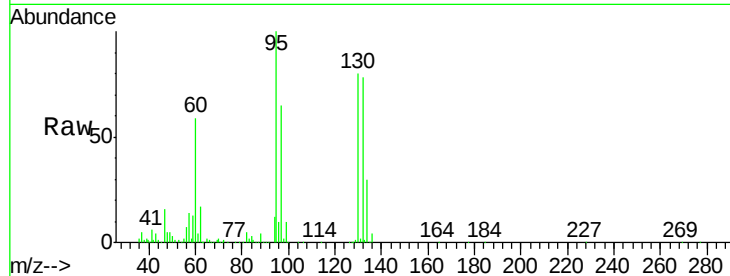
#40  
 1,4-Dioxane  
 Concen: 0.700 ppbv m  
 RT: 7.86 min Scan# 1577  
 Delta R.T. 0.01 min  
 Lab File: VL034745.D  
 Acq: 28 Feb 2020 20:27

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SG-6-CR-104

| Tot Ion | Ratio | Lower | Upper   |
|---------|-------|-------|---------|
| 88      | 100   |       |         |
| 58      | 0.0   | 104.6 | 156.8#  |
| 43      | 0.0   | 212.9 | 319.3#  |
| 57      | 0.0   | 935.2 | 1402.8# |

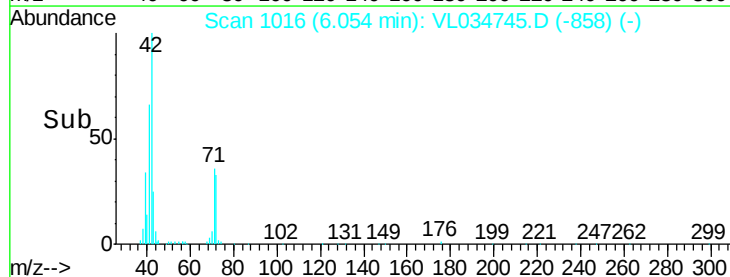
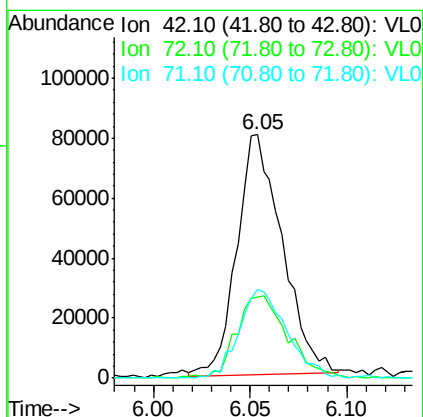
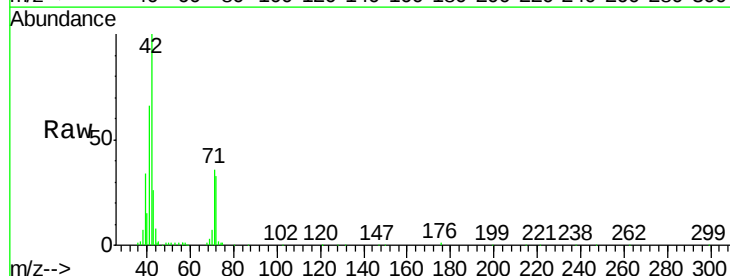
Manual Integrations  
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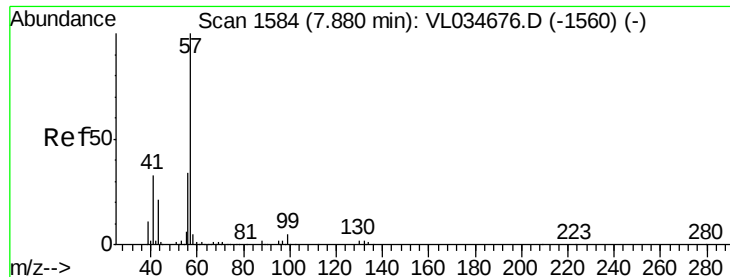
MMDadoda  
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#41  
 Tetrahydrofuran  
 Concen: 1.837 ppbv  
 RT: 6.05 min Scan# 1016  
 Delta R.T. 0.01 min  
 Lab File: VL034745.D  
 Acq: 28 Feb 2020 20:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 39.4  | 31.7  | 47.5  |
| 71      | 39.3  | 30.7  | 46.1  |





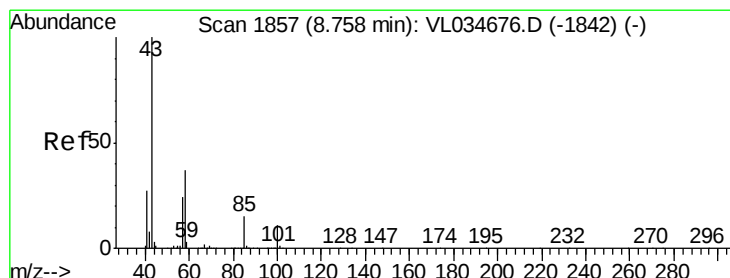
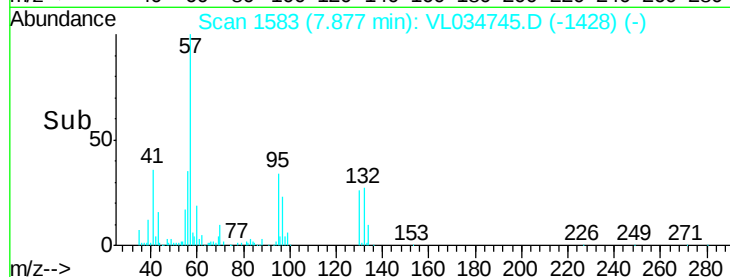
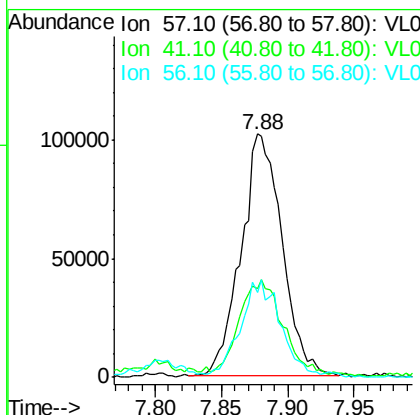
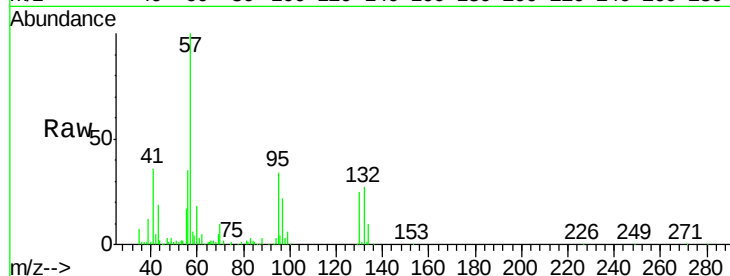
#44  
 2,2,4-Trimethylpentane  
 Concen: 0.676 ppbv  
 RT: 7.88 min Scan# 1583  
 Delta R.T. -0.00 min  
 Lab File: VL034745.D  
 Acq: 28 Feb 2020 20:27

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SG-6-CR-104

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 57      | 100   |       |       |
| 41      | 43.2  | 26.0  | 39.0# |
| 56      | 40.6  | 25.6  | 38.4# |

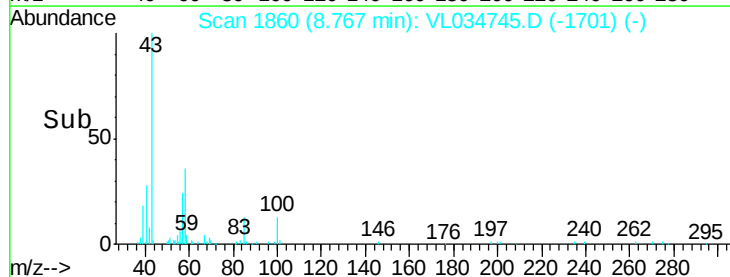
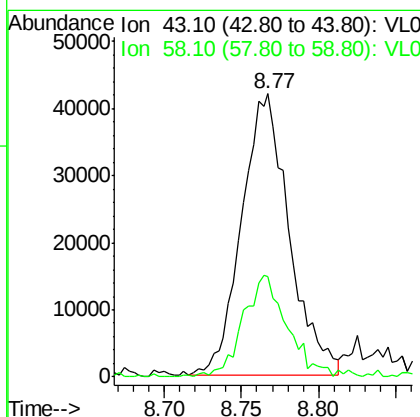
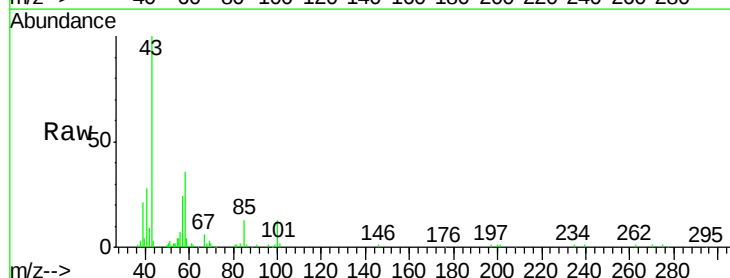
Manual Integrations  
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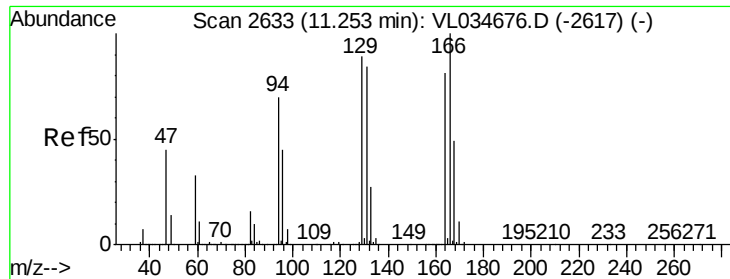
MMDadoda  
 3/2/2020 1:01:35 PM



#50  
 4-Methyl-2-Pentanone  
 Concen: 0.468 ppbv  
 RT: 8.77 min Scan# 1860  
 Delta R.T. 0.01 min  
 Lab File: VL034745.D  
 Acq: 28 Feb 2020 20:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 34.6  | 29.0  | 43.6  |





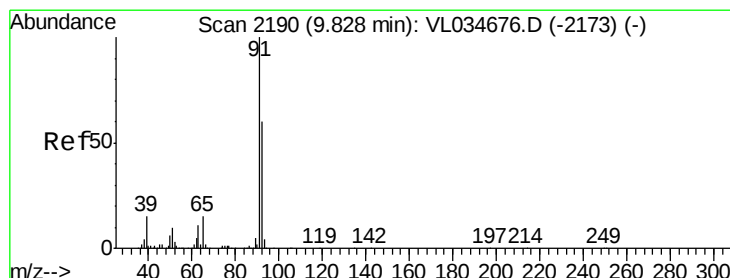
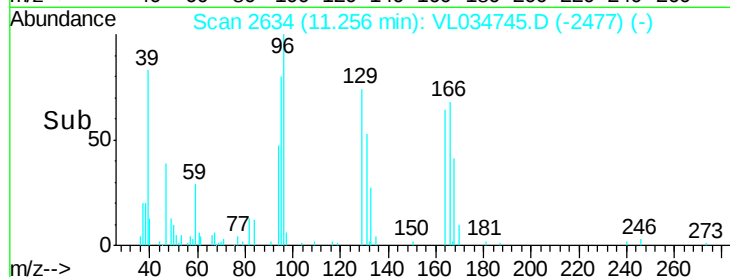
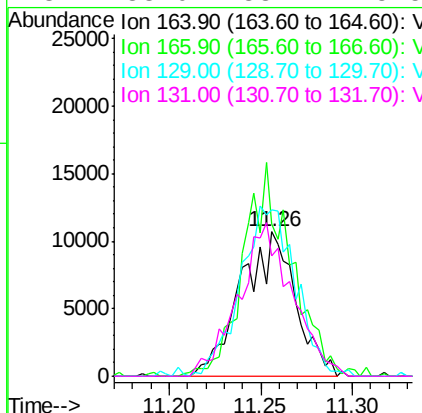
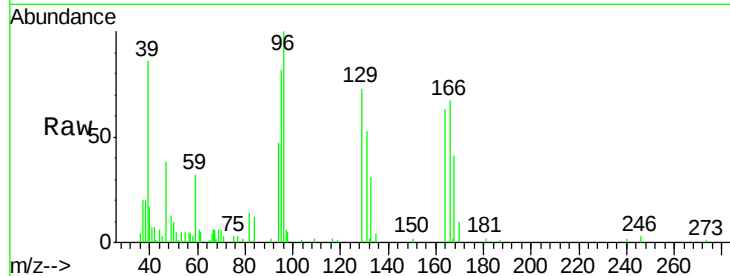
#52  
Tetrachloroethene  
Concen: 0.326 ppbv m  
RT: 11.26 min Scan# 2634  
Delta R.T. 0.00 min  
Lab File: VL034745.D  
Acq: 28 Feb 2020 20:27

Instrument :  
MSVOA\_L  
ClientSampleId :  
SG-6-CR-104

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 164     | 100   |       |        |
| 166     | 105.9 | 99.2  | 148.8  |
| 129     | 114.8 | 88.0  | 132.0  |
| 131     | 83.0  | 83.7  | 125.5# |

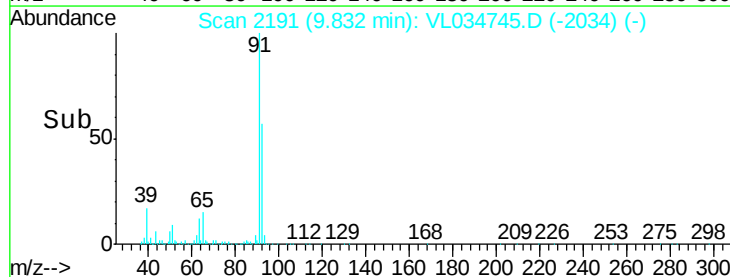
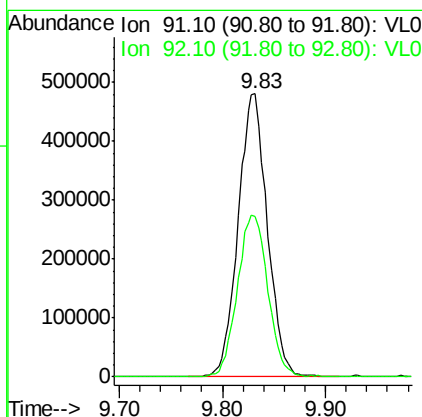
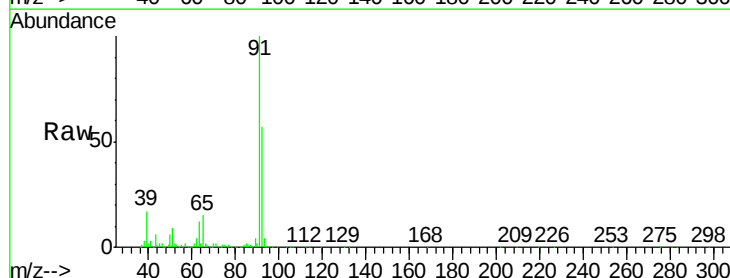
Manual Integrations  
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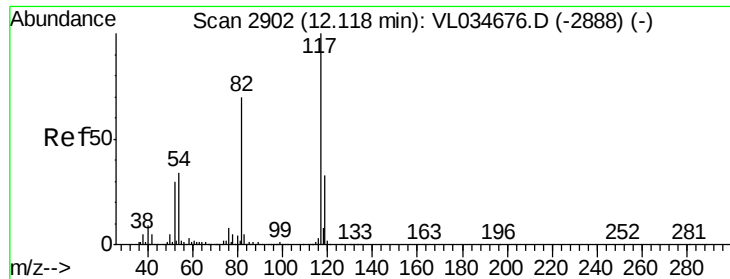
MMDadoda  
3/2/2020 1:01:35 PM



#53  
Toluene  
Concen: 4.815 ppbv  
RT: 9.83 min Scan# 2191  
Delta R.T. 0.00 min  
Lab File: VL034745.D  
Acq: 28 Feb 2020 20:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 59.8  | 48.5  | 72.7  |





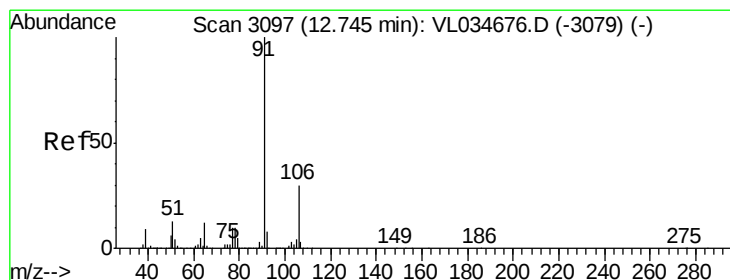
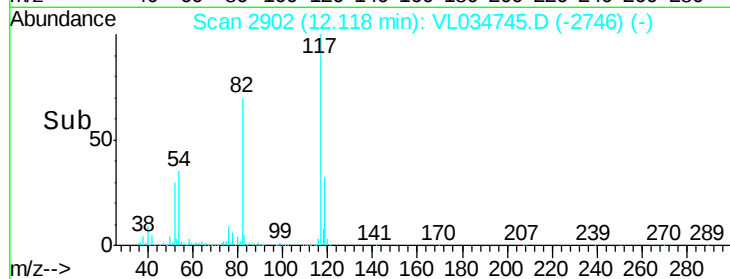
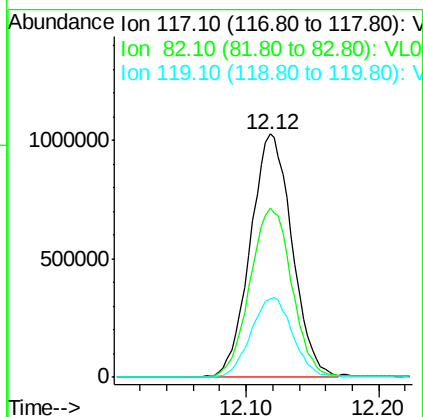
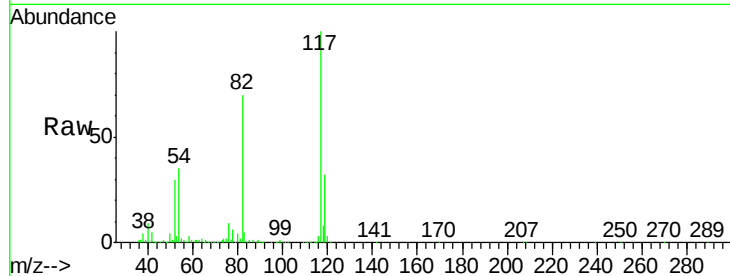
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.12 min Scan# 2902  
Delta R.T. 0.00 min  
Lab File: VL034745.D  
Acq: 28 Feb 2020 20:27

Instrument :  
MSVOA\_L  
ClientSampleId :  
SG-6-CR-104

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 70.1  | 54.1  | 81.1  |
| 119     | 33.1  | 27.6  | 41.4  |

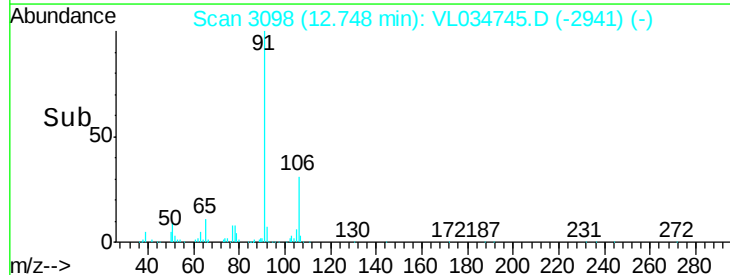
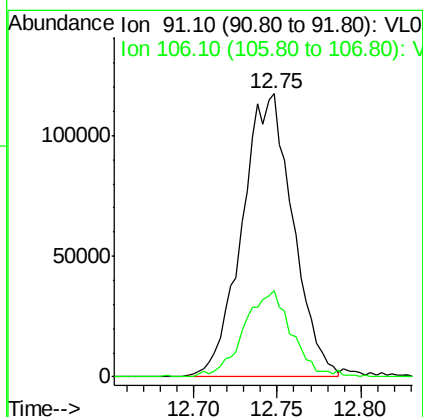
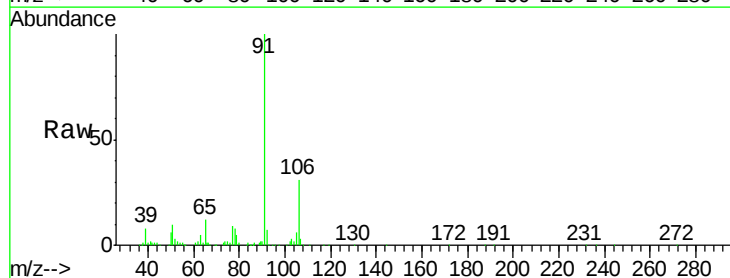
Manual Integrations  
APPROVED

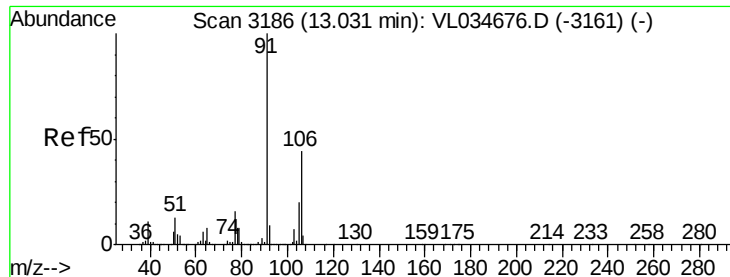
MMDadoda  
3/2/2020 1:01:35 PM



#58  
Ethyl Benzene  
Concen: 0.906 ppbv m  
RT: 12.75 min Scan# 3098  
Delta R.T. 0.00 min  
Lab File: VL034745.D  
Acq: 28 Feb 2020 20:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 106     | 30.6  | 24.0  | 36.0  |





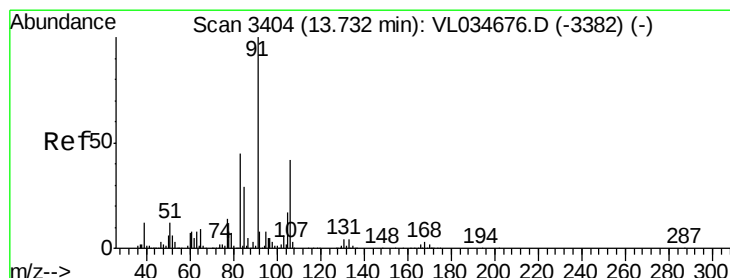
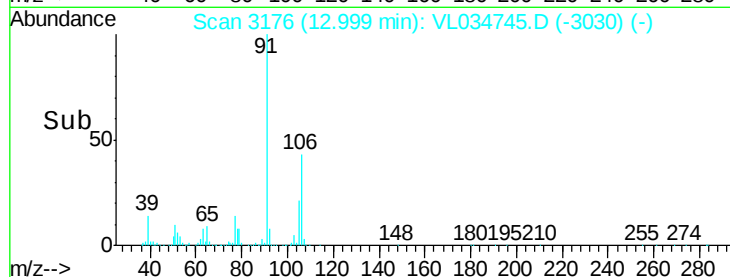
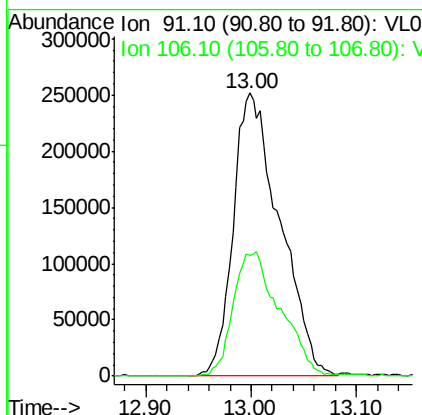
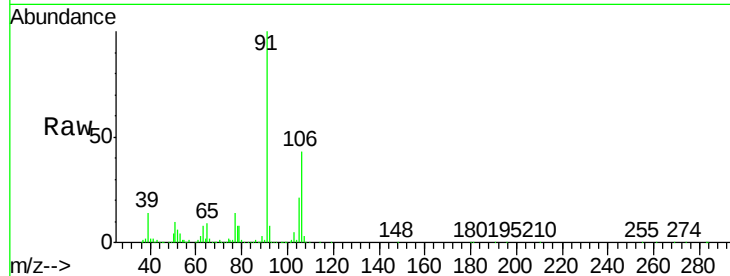
#59  
m/p-Xylene  
Concen: 3.225 ppbv  
RT: 13.00 min Scan# 3176  
Delta R.T. -0.03 min  
Lab File: VL034745.D  
Acq: 28 Feb 2020 20:27

Instrument :  
MSVOA\_L  
ClientSampled :  
SG-6-CR-104

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 91      | 100  |       | 769447 |       |       |
| 106     | 44.8 | 35.6  | 53.4   |       |       |

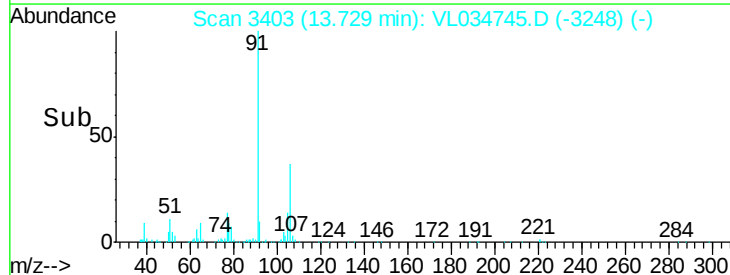
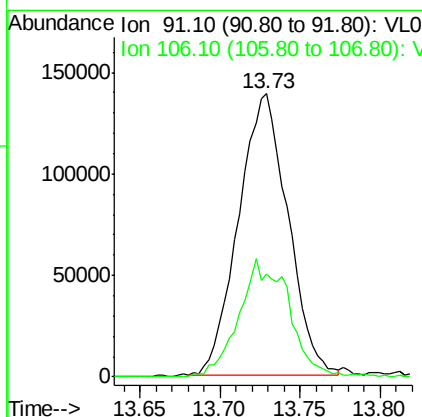
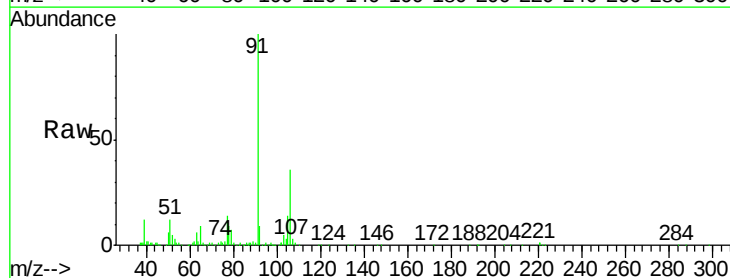
Manual Integrations  
APPROVED

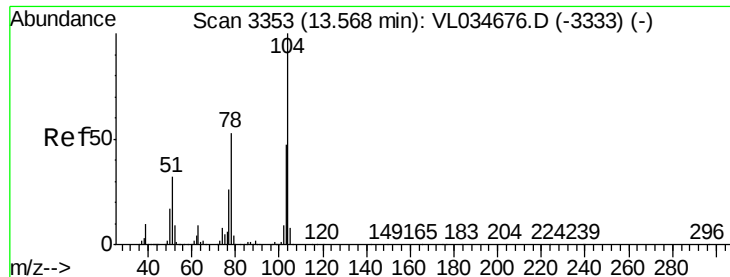
MMDadoda  
3/2/2020 1:01:35 PM



#60  
o-Xylene  
Concen: 1.243 ppbv  
RT: 13.73 min Scan# 3403  
Delta R.T. -0.00 min  
Lab File: VL034745.D  
Acq: 28 Feb 2020 20:27

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 91      | 100  |       | 294176 |       |       |
| 106     | 42.5 | 21.9  | 65.5   |       |       |





#61

Stvrene

Concen: 0.157 ppbv m

RT: 13.56 min Scan# 3351

Delta R.T. -0.01 min

Lab File: VL034745.D

Acq: 28 Feb 2020 20:27

Instrument :

MSVOA\_L

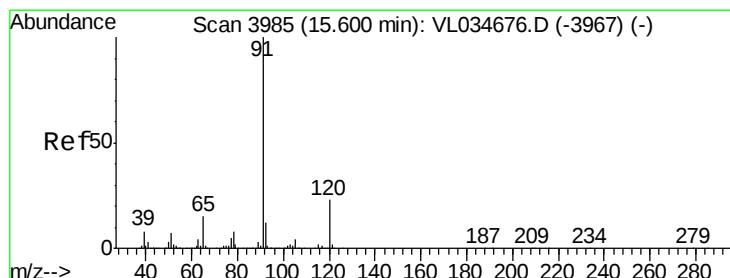
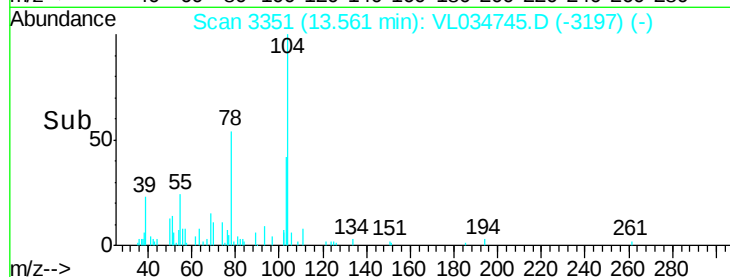
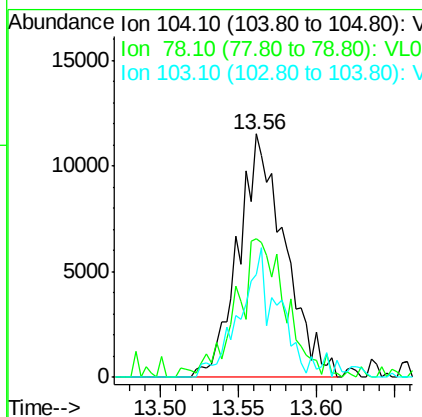
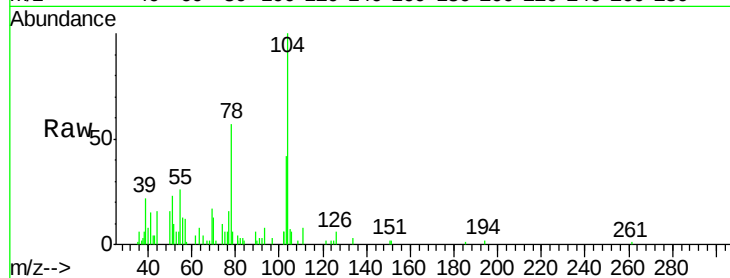
ClientSampleId :

SG-6-CR-104

|           |      |       |       |
|-----------|------|-------|-------|
| Tot Ion:  | 104  | Resp: | 23807 |
| Ion Ratio |      | Lower | Upper |
| 104       | 100  |       |       |
| 78        | 60.8 | 44.2  | 66.4  |
| 103       | 47.7 | 37.4  | 56.0  |

Manual Integrations  
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#64

n-propylbenzene

Concen: 0.190 ppbv m

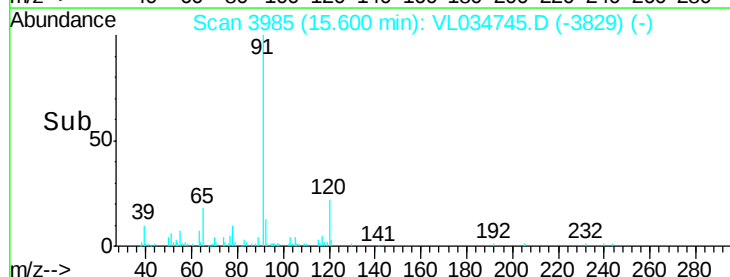
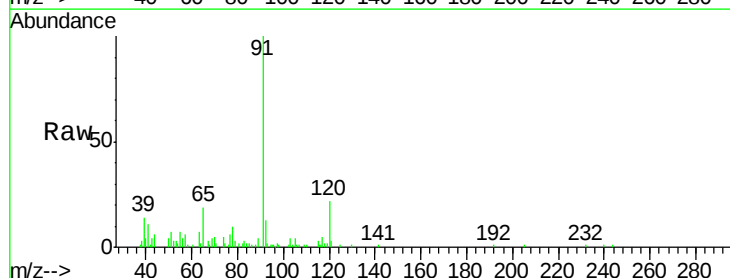
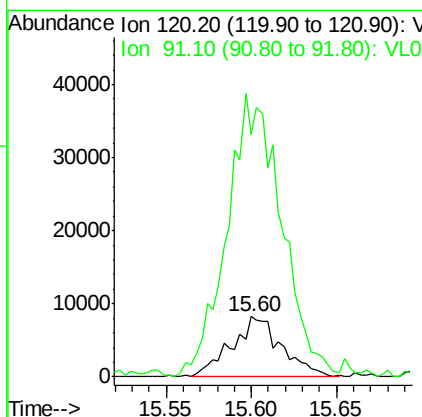
RT: 15.60 min Scan# 3985

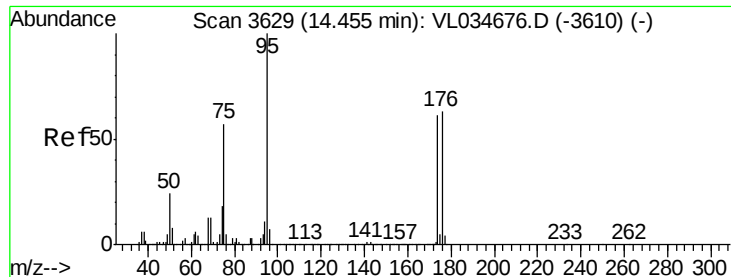
Delta R.T. 0.00 min

Lab File: VL034745.D

Acq: 28 Feb 2020 20:27

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 120  | Resp: | 16871  |
| Ion Ratio |      | Lower | Upper  |
| 120       | 100  |       |        |
| 91        | 24.8 | 369.8 | 554.8# |





#68

1-Bromo-4-Fluorobenzene

Concen: 10.024 ppbv

RT: 14.46 min Scan# 3629

Delta R.T. 0.00 min

Lab File: VL034745.D

Acq: 28 Feb 2020 20:27

Instrument :

MSVOA\_L

ClientSampleId :

SG-6-CR-104

Tot Ion: 95 Resp: 1858210

Ion Ratio Lower Upper

95 100

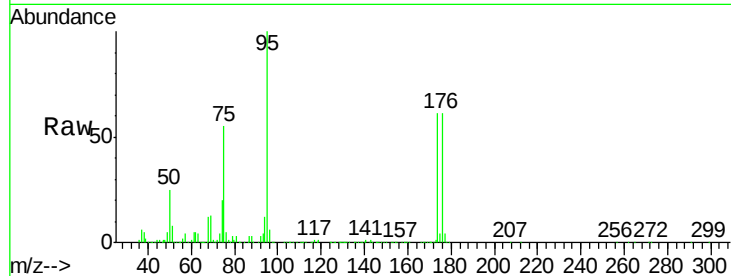
174 63.7 50.7 76.1

175 4.7 3.9 5.9

Manual Integrations  
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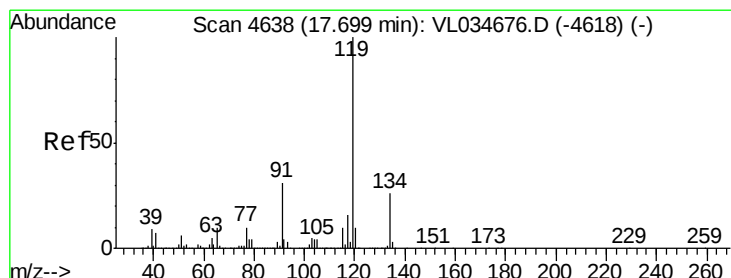
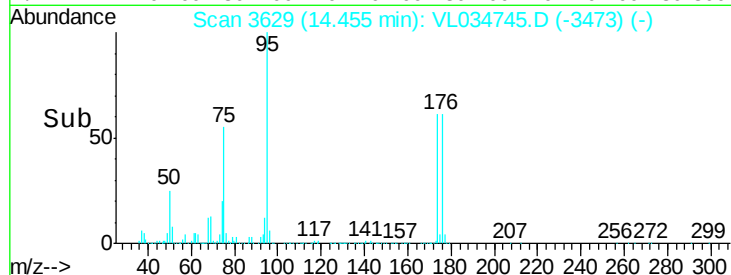
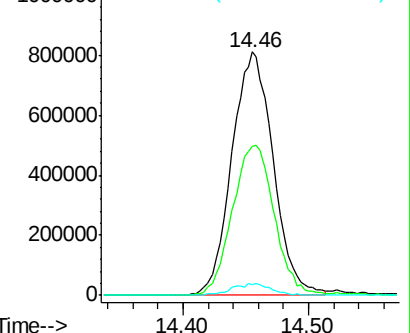
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Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V



#69

p-Isopropyltoluene

Concen: 1.438 ppbv

RT: 17.70 min Scan# 4638

Delta R.T. 0.00 min

Lab File: VL034745.D

Acq: 28 Feb 2020 20:27

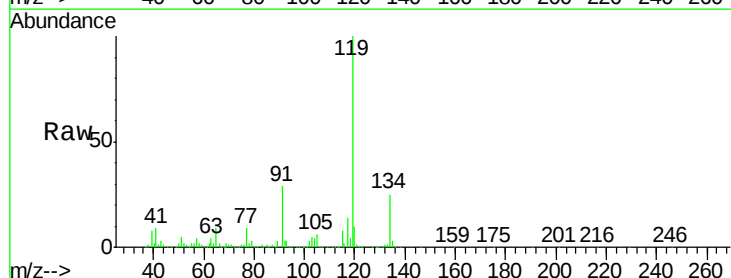
Tgt Ion: 119 Resp: 507795

Ion Ratio Lower Upper

119 100

134 24.0 20.6 31.0

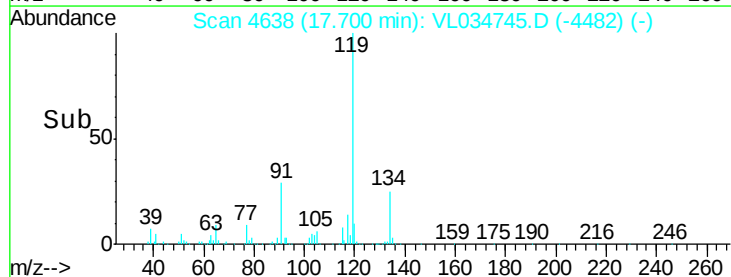
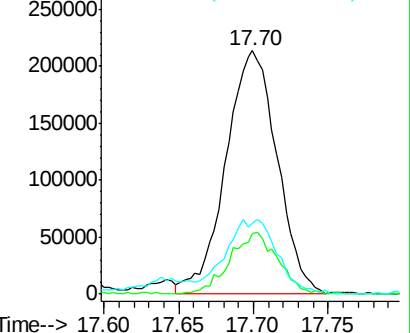
91 38.1 25.3 37.9#

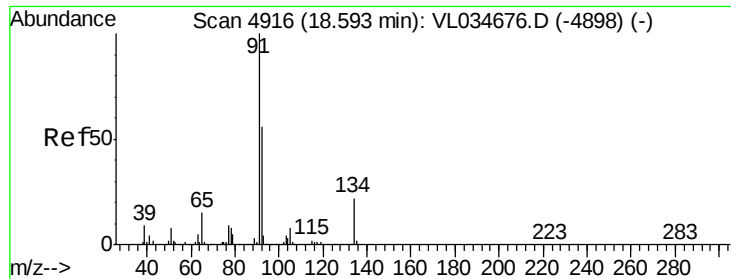


Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): VL0





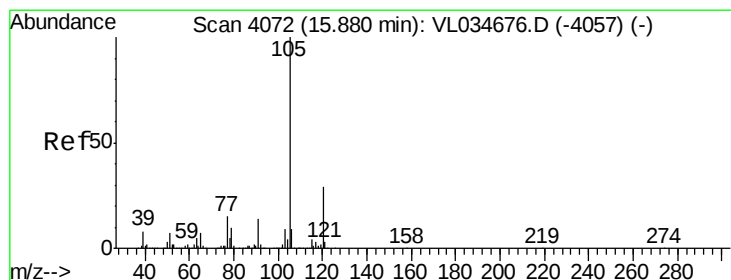
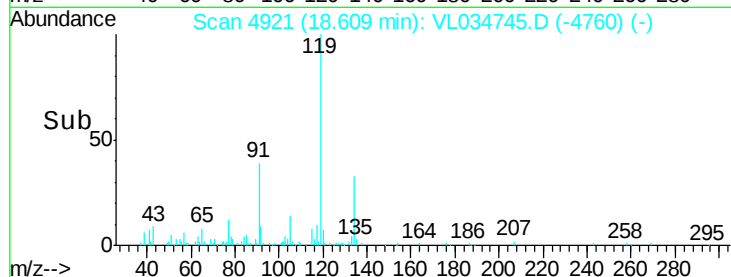
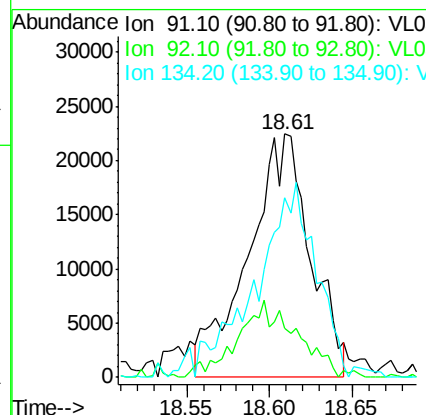
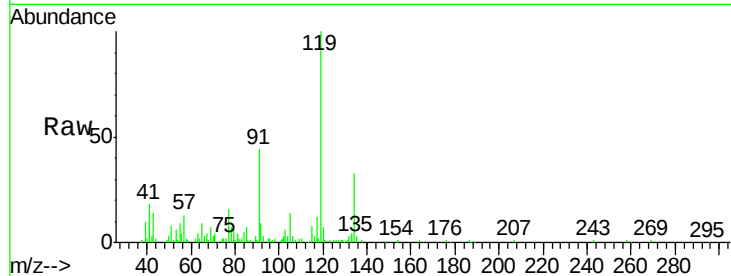
#70  
n-Butylbenzene  
Concen: 0.153 ppbv m  
RT: 18.61 min Scan# 4921  
Delta R.T. 0.02 min  
Lab File: VL034745.D  
Acq: 28 Feb 2020 20:27

Instrument :  
MSVOA\_L  
ClientSampleId :  
SG-6-CR-104

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 31.1  | 43.8  | 65.6# |
| 134     | 0.0   | 17.6  | 26.4# |

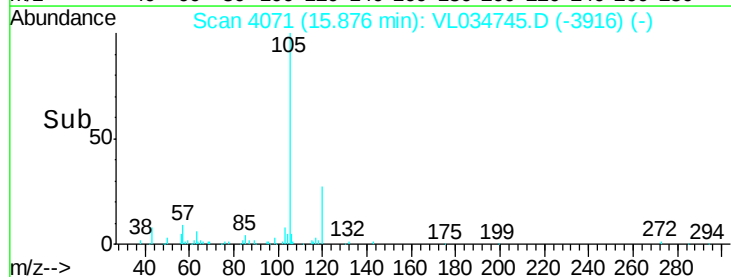
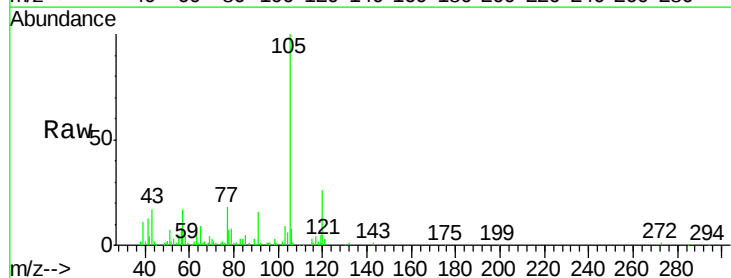
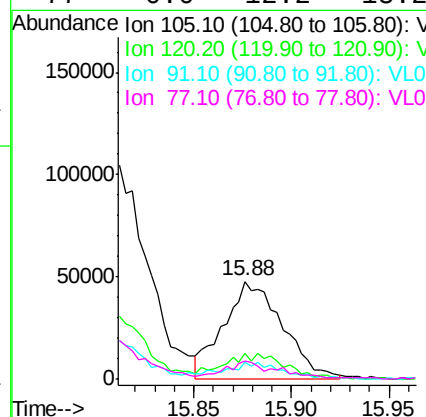
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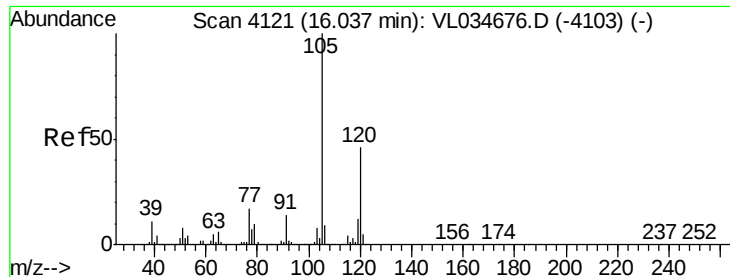
MMDadoda  
3/2/2020 1:01:35 PM



#72  
4-Ethyltoluene  
Concen: 0.380 ppbv m  
RT: 15.88 min Scan# 4071  
Delta R.T. -0.00 min  
Lab File: VL034745.D  
Acq: 28 Feb 2020 20:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 28.7  | 23.7  | 35.5  |
| 91      | 15.3  | 10.9  | 16.3  |
| 77      | 0.0   | 12.2  | 18.2# |





#73

1,3,5-Trimethylbenzene

Concen: 0.527 ppbv m

RT: 16.04 min Scan# 4122

Delta R.T. 0.00 min

Lab File: VL034745.D

Acq: 28 Feb 2020 20:27

Instrument :

MSVOA\_L

ClientSampleId :

SG-6-CR-104

Tot Ion:105 Resp: 133646

Ion Ratio Lower Upper

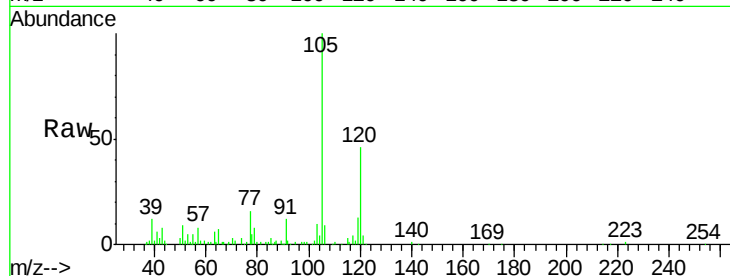
105 100

120 45.6 37.1 55.7

Manual Integrations  
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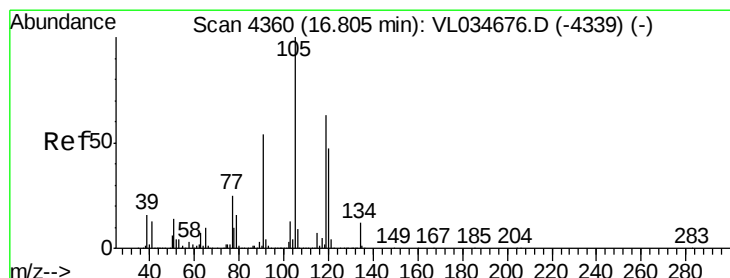
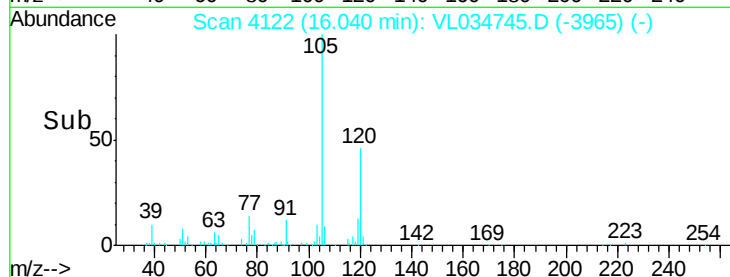
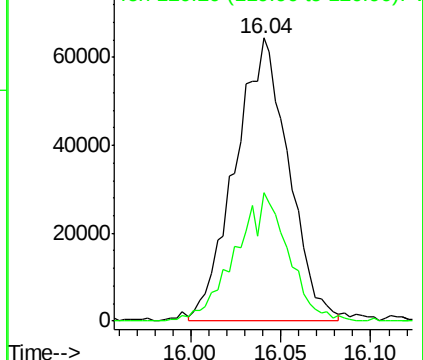
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 1.649 ppbv

RT: 16.80 min Scan# 4359

Delta R.T. -0.00 min

Lab File: VL034745.D

Acq: 28 Feb 2020 20:27

Tgt Ion:105 Resp: 461616

Ion Ratio Lower Upper

105 100

120 42.6 37.9 56.9

91 11.3 43.9 65.9#

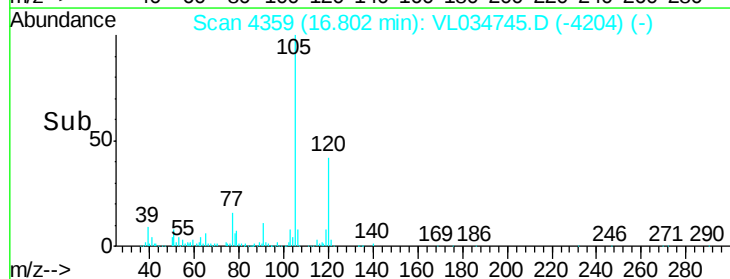
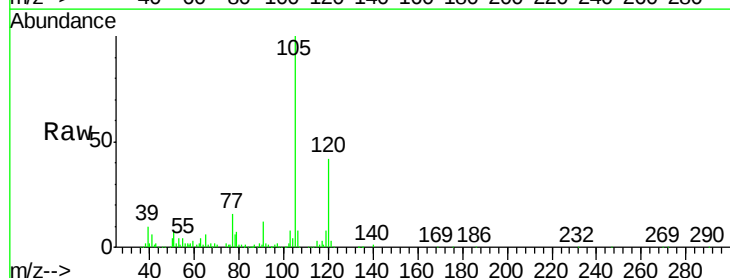
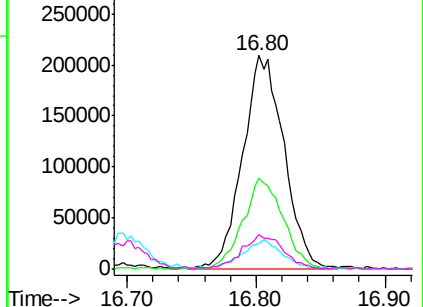
77 15.8 20.3 30.5#

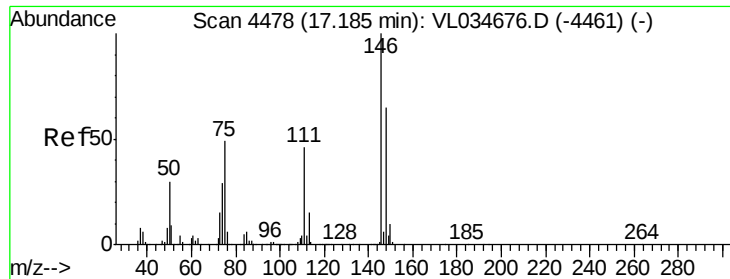
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#76

1,4-Dichlorobenzene

Concen: 0.172 ppbv m

RT: 17.19 min Scan# 4480

Delta R.T. 0.01 min

Lab File: VL034745.D

Acq: 28 Feb 2020 20:27

Instrument :

MSVOA\_L

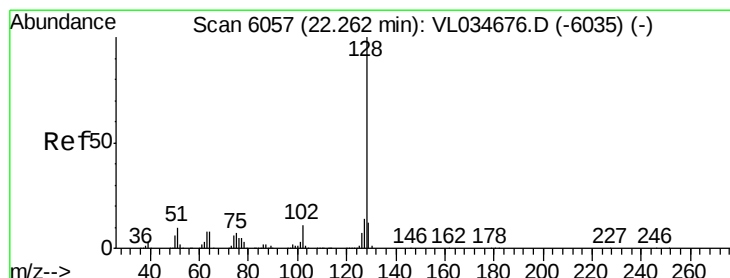
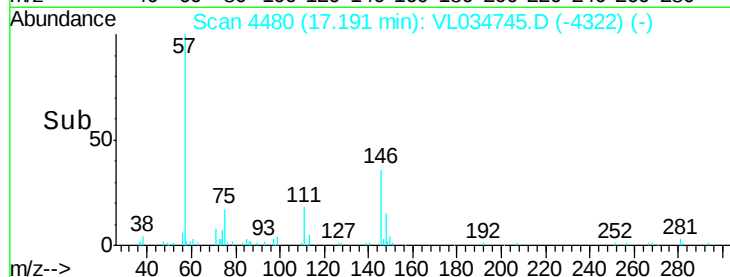
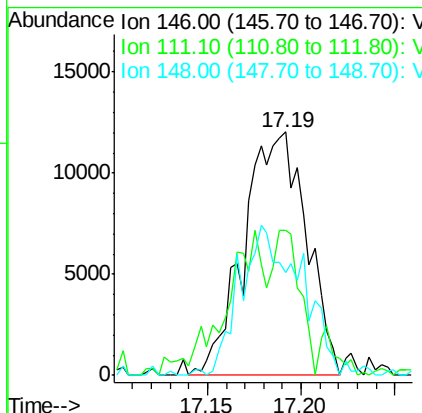
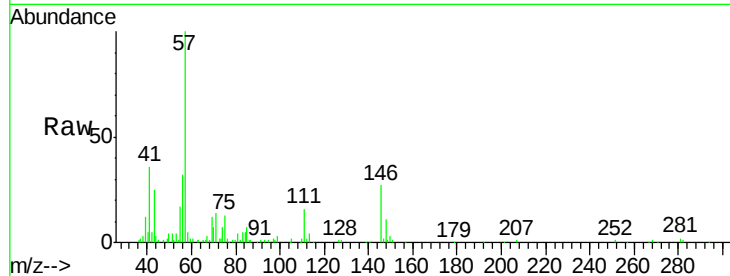
ClientSampleId :

SG-6-CR-104

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 146   | Resp: | 27845 |
| Ion Ratio | Lower | Upper |       |
| 146       | 100   |       |       |
| 111       | 69.7  | 23.4  | 70.0  |
| 148       | 0.0   | 31.9  | 95.5# |

Manual Integrations  
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3/2/2020 1:01:35 PM



#79

Naphthalene

Concen: 0.198 ppbv m

RT: 22.27 min Scan# 6058

Delta R.T. 0.00 min

Lab File: VL034745.D

Acq: 28 Feb 2020 20:27

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 48887 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 127       | 10.5  | 11.0  | 16.6# |
| 129       | 12.5  | 9.4   | 14.2  |

