

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081618\  
 Data File : VL032384.D  
 Acq On : 16 Aug 2018 19:42  
 Operator : SY/AP  
 Sample : J4457-03DL 20X  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SG06-MIVIDL

Manual Integrations  
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Quant Time: Aug 20 09:38:33 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Wed Aug 15 14:58:02 2018  
 QLast Update : Wed Aug 15 14:58:02 2018  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.82  | 49   | 1810622  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.35  | 114  | 3805214  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.31 | 117  | 3579922  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.65  | 95    | 2758038  | 10.10    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 101.00% |

| Target Compounds     | R.T.  | QIon | Response | Conc  | Units  | Ovalue |
|----------------------|-------|------|----------|-------|--------|--------|
| 9) Propene           | 3.09  | 41   | 2995344m | 41.73 | ppbv   |        |
| 10) Heptane          | 8.31  | 43   | 2000438  | 9.25  | ppbv   | 100    |
| 13) Ethanol          | 3.70  | 45   | 85925    | 4.66  | ppbv   | 99     |
| 15) Acetone          | 3.94  | 43   | 3479340  | 20.23 | ppbv # | 78     |
| 26) Hexane           | 5.84  | 57   | 4732546  | 28.80 | ppbv # | 43     |
| 27) Carbon Disulfide | 4.67  | 76   | 82763    | 0.54  | ppbv # | 86     |
| 30) Cyclohexane      | 7.31  | 84   | 2798816  | 22.36 | ppbv   | 97     |
| 34) 2-Butanone       | 5.39  | 43   | 632275   | 2.44  | ppbv   | 99     |
| 36) Benzene          | 7.07  | 78   | 835125   | 2.59  | ppbv   | 98     |
| 53) Toluene          | 10.01 | 91   | 2372823  | 6.71  | ppbv   | 99     |
| 58) Ethyl Benzene    | 12.93 | 91   | 397111   | 0.92  | ppbv   | 100    |
| 59) m/p-Xylene       | 13.19 | 91   | 696159   | 1.90  | ppbv   | 99     |
| 60) o-Xylene         | 13.92 | 91   | 162134   | 0.45  | ppbv   | 99     |

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

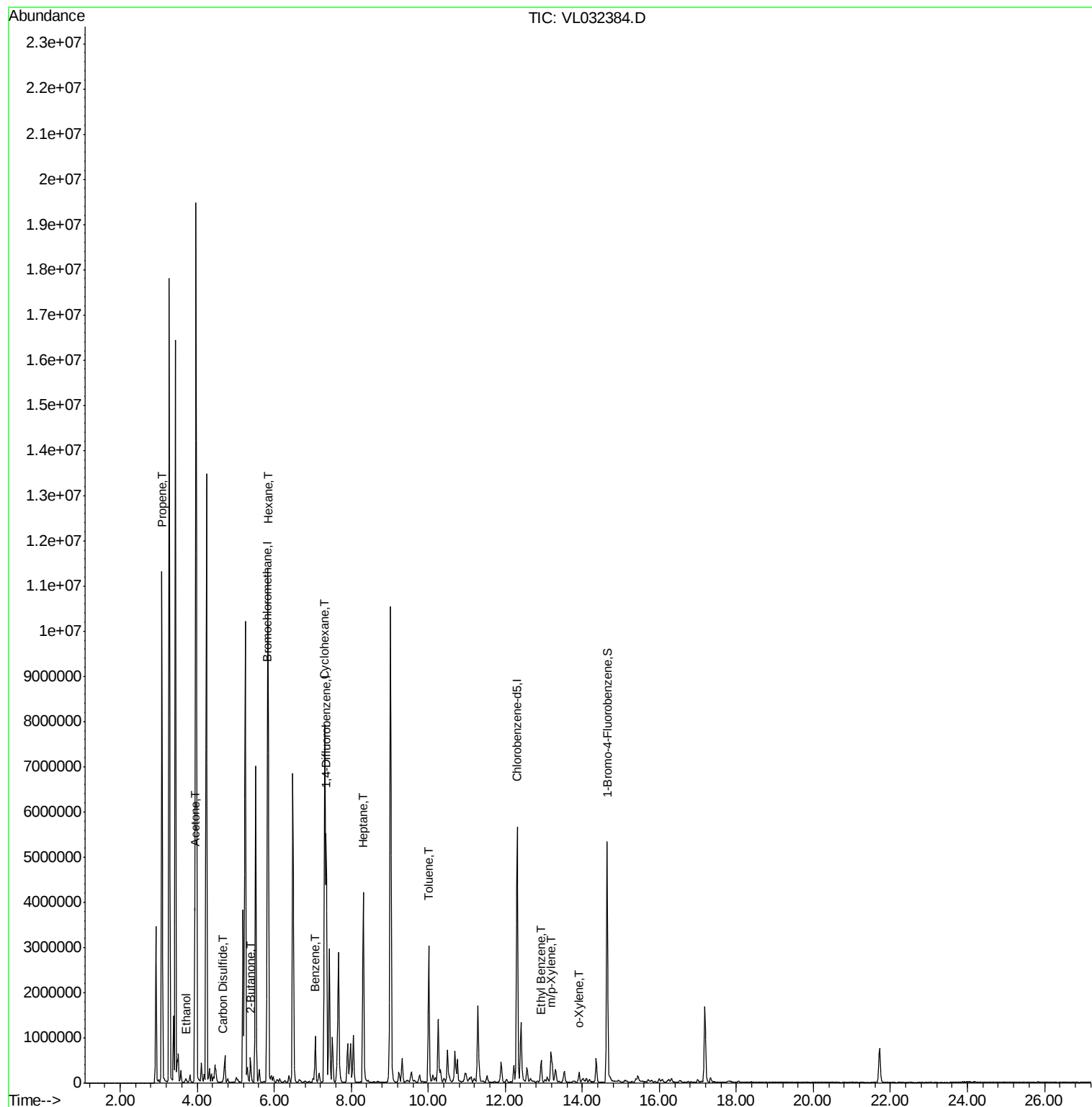
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL081618\  
Data File : VL032384.D  
Acq On : 16 Aug 2018 19:42  
Operator : SY/AP  
Sample : J4457-03DL 20X  
Misc : 400ml/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

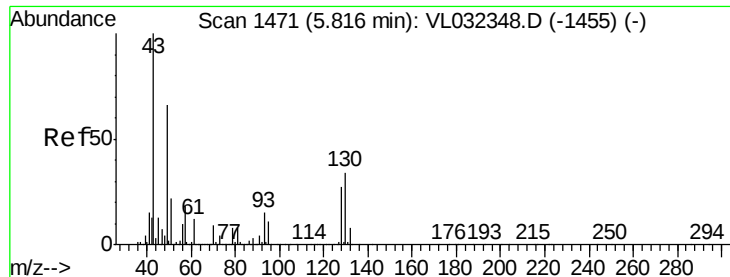
Instrument :  
MSVOA\_L  
ClientSampleId :  
SG06-MIVIDL

Manual Integrations  
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Quant Time: Aug 20 09:38:33 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Wed Aug  
QLast Update : Wed Aug 15 14:58:02 2018  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.82 min Scan# 1471

Delta R.T. -0.00 min

Lab File: VL032384.D

Acq: 16 Aug 2018 19:42

Instrument :

MSVOA\_L

ClientSampleID :

SG06-MIVIDL

Tot Ion: 49 Resp: 1810622

Ion Ratio Lower Upper

49 100

128 40.4 20.5 61.6

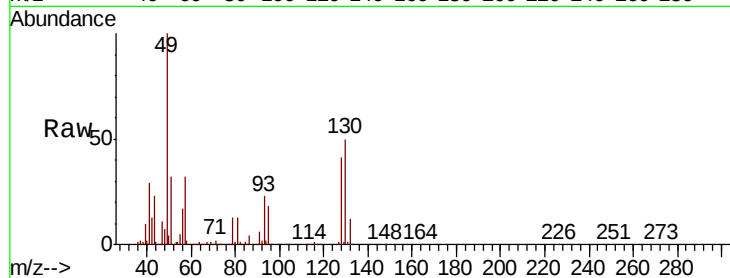
130 50.6 26.2 78.5

Manual Integrations

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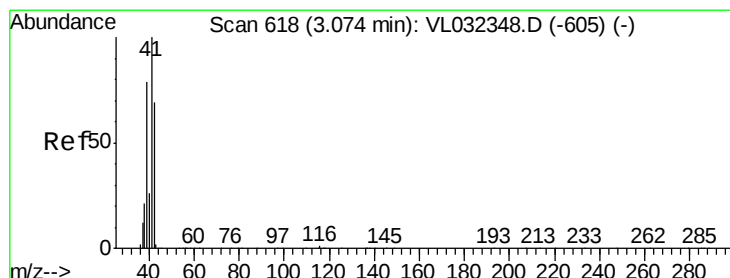
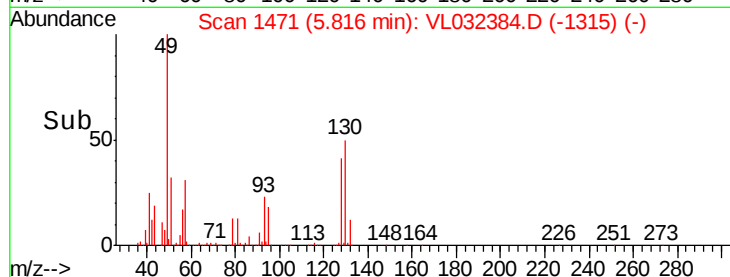
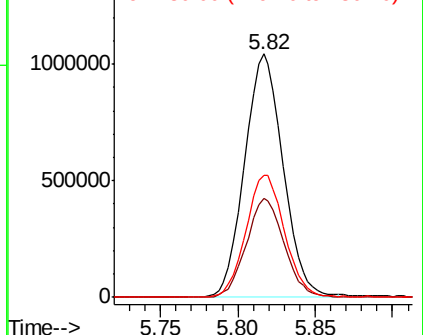
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#9

Propene

Concen: 41.73 ppbv m

RT: 3.09 min Scan# 622

Delta R.T. 0.01 min

Lab File: VL032384.D

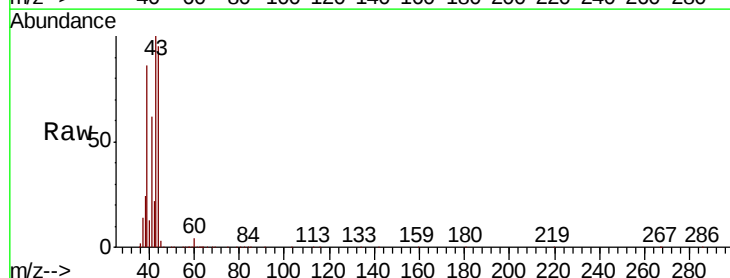
Acq: 16 Aug 2018 19:42

Tgt Ion: 41 Resp: 2995344

Ion Ratio Lower Upper

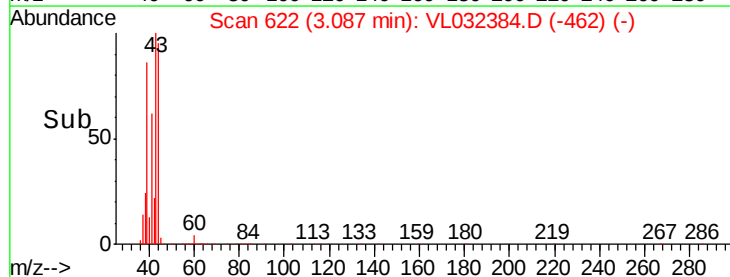
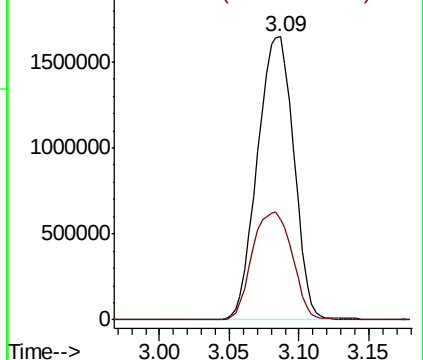
41 100

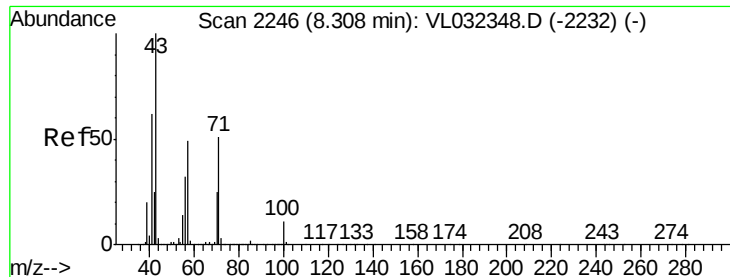
42 146.1 55.9 83.9#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





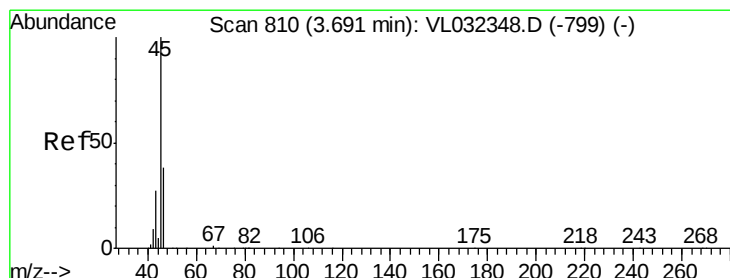
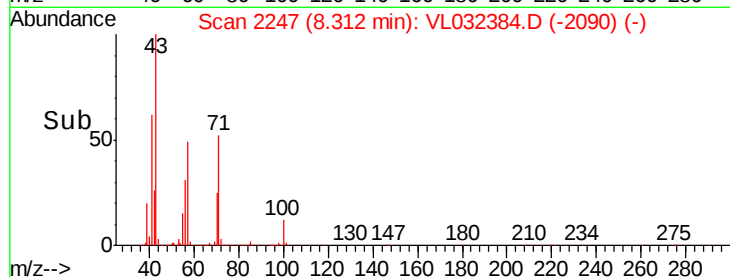
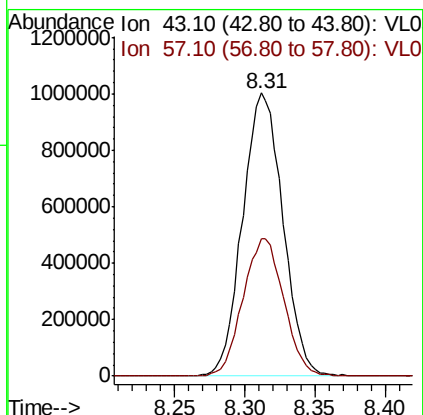
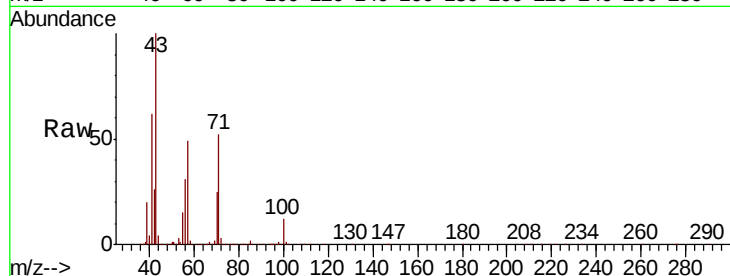
#10  
Heptane  
Concen: 9.25 ppbv  
RT: 8.31 min Scan# 2247  
Delta R.T. 0.00 min  
Lab File: VL032384.D  
Acq: 16 Aug 2018 19:42

Instrument :  
MSVOA\_L  
ClientSampleId :  
SG06-MIVIDL

Tot Ion: 43 Resp: 2000438  
Ion Ratio Lower Upper  
43 100  
57 49.6 39.5 59.3

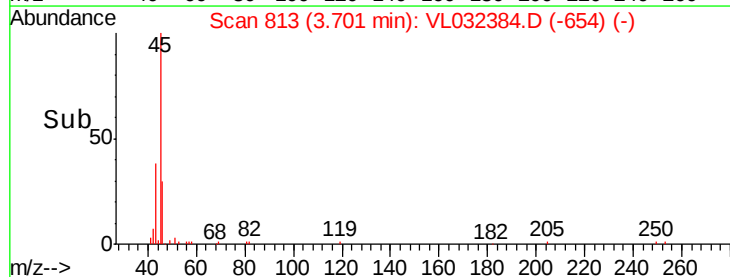
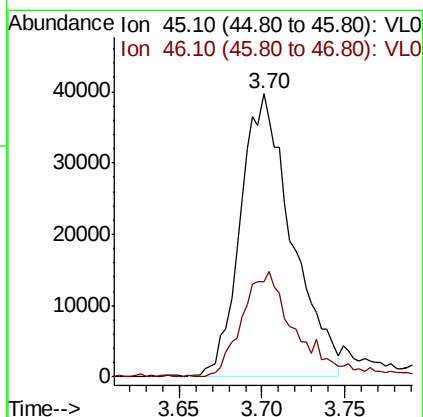
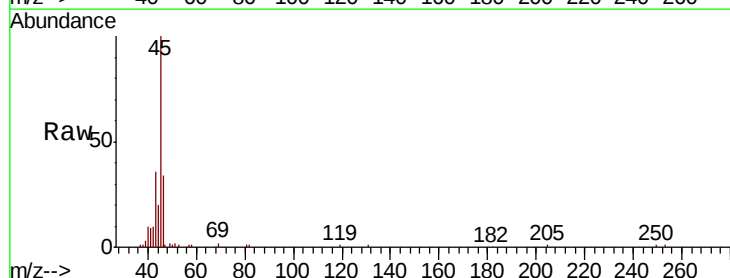
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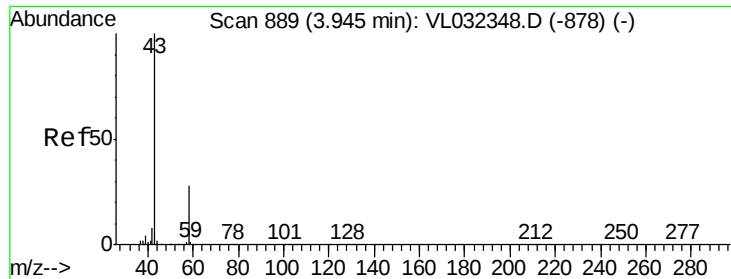
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#13  
Ethanol  
Concen: 4.66 ppbv  
RT: 3.70 min Scan# 813  
Delta R.T. 0.01 min  
Lab File: VL032384.D  
Acq: 16 Aug 2018 19:42

Tgt Ion: 45 Resp: 85925  
Ion Ratio Lower Upper  
45 100  
46 39.9 15.6 62.4





#15

Acetone

Concen: 20.23 ppbv

RT: 3.94 min Scan# 887

Delta R.T. -0.01 min

Lab File: VL032384.D

Acq: 16 Aug 2018 19:42

Instrument :

MSVOA\_L

ClientSampleId :

SG06-MIVIDL

Tot Ion: 43 Resp: 3479340

Ion Ratio Lower Upper

43 100

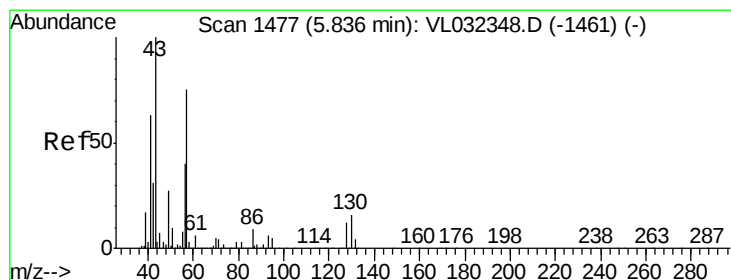
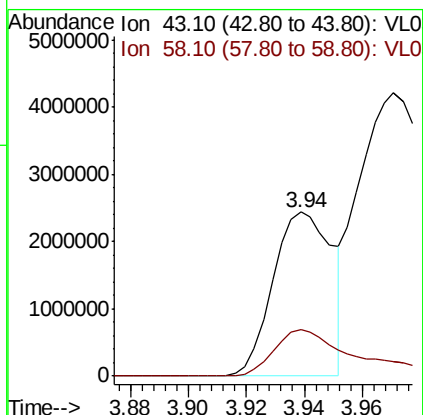
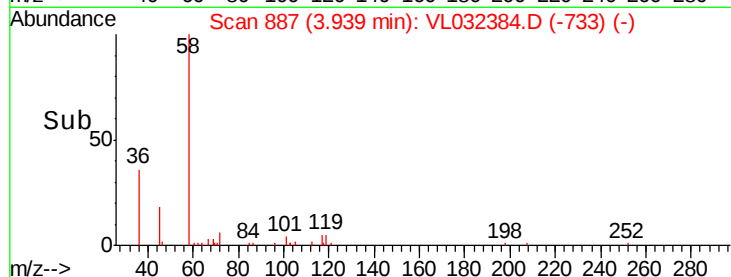
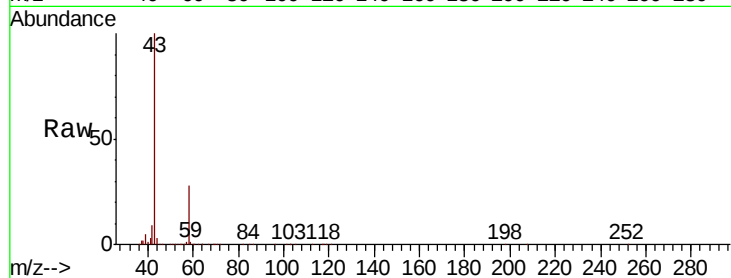
58 39.6 22.4 33.6#

Manual Integrations

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#26

Hexane

Concen: 28.80 ppbv

RT: 5.84 min Scan# 1479

Delta R.T. 0.01 min

Lab File: VL032384.D

Acq: 16 Aug 2018 19:42

Tgt Ion: 57 Resp: 4732546

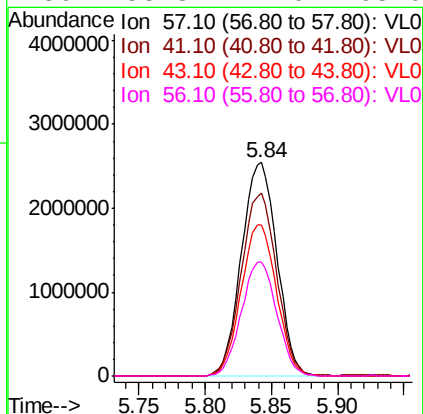
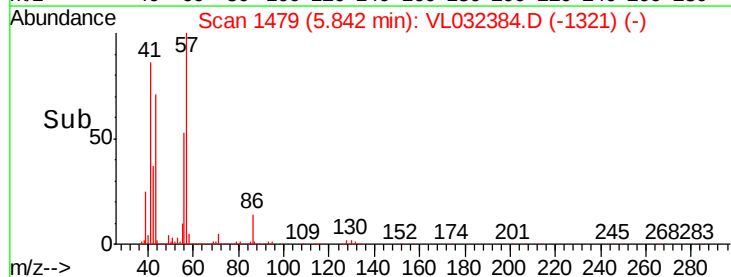
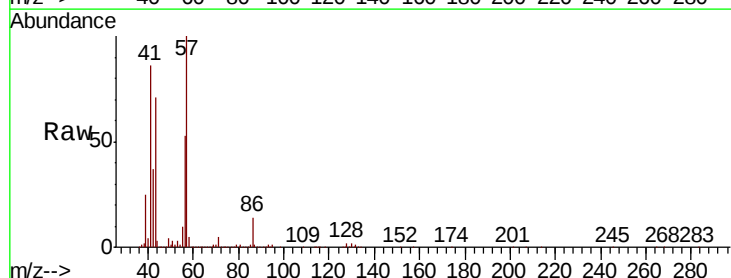
Ion Ratio Lower Upper

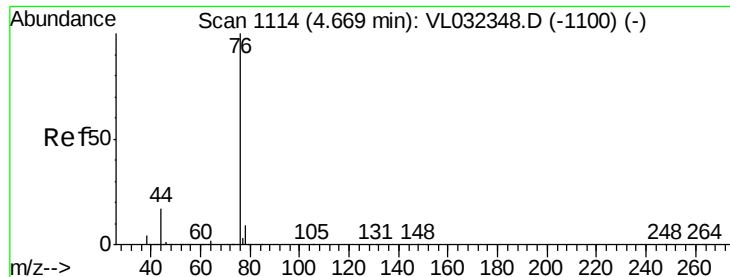
57 100

41 85.9 68.0 102.0

43 70.6 175.3 262.9#

56 53.3 42.0 63.0





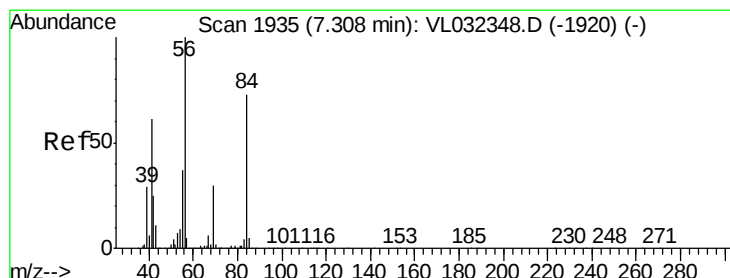
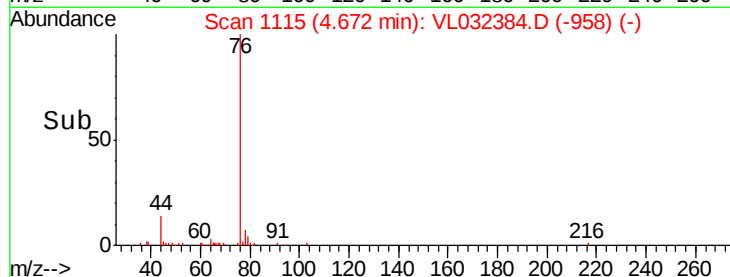
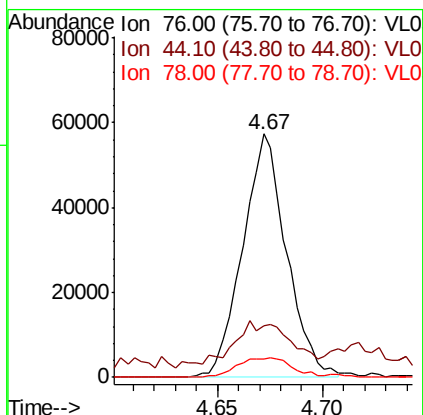
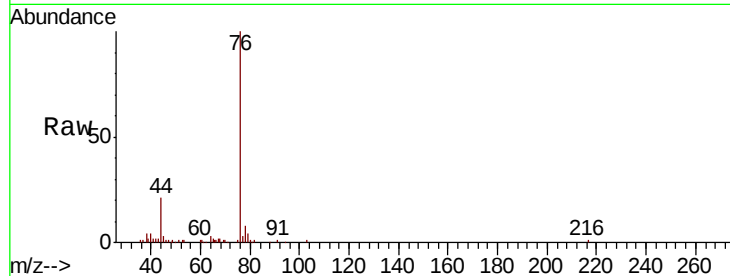
#27  
Carbon Disulfide  
Concen: 0.54 ppbv  
RT: 4.67 min Scan# 1115  
Delta R.T. 0.00 min  
Lab File: VL032384.D  
Acq: 16 Aug 2018 19:42

Instrument :  
MSVOA\_L  
ClientSampleId :  
SG06-MIVIDL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 76      | 100   |       |       |
| 44      | 26.8  | 14.4  | 21.6# |
| 78      | 10.6  | 7.4   | 11.0  |

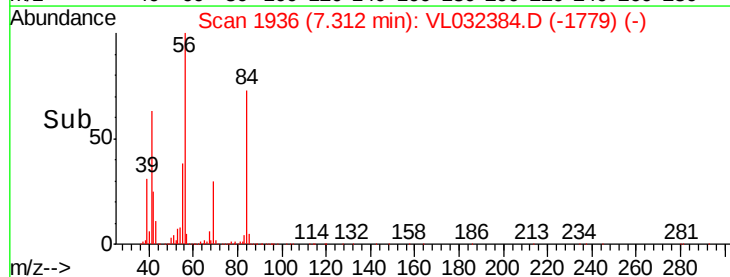
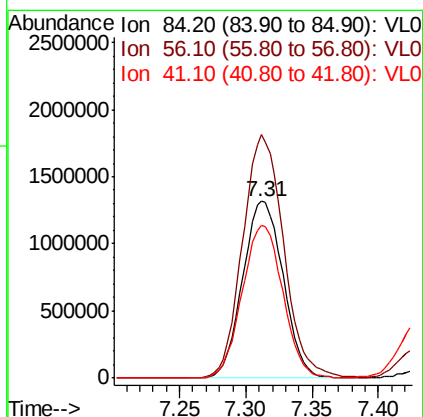
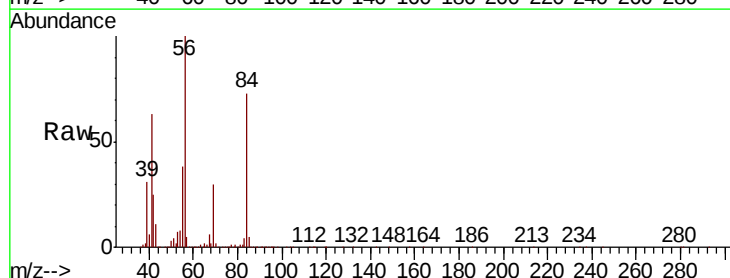
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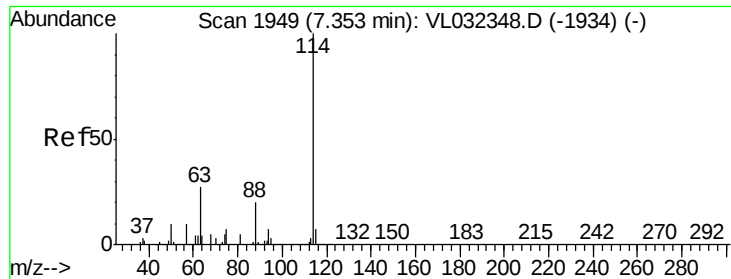
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#30  
Cyclohexane  
Concen: 22.36 ppbv  
RT: 7.31 min Scan# 1936  
Delta R.T. 0.00 min  
Lab File: VL032384.D  
Acq: 16 Aug 2018 19:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 84      | 100   |       |       |
| 56      | 139.9 | 115.7 | 173.5 |
| 41      | 86.7  | 67.9  | 101.9 |





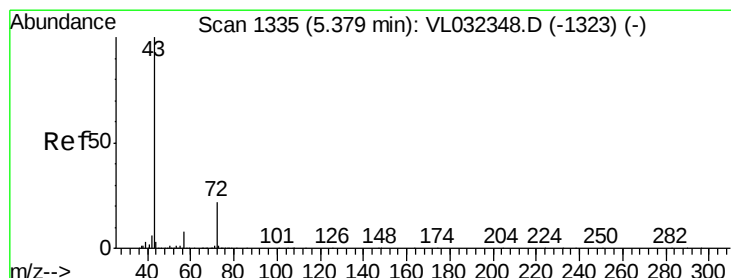
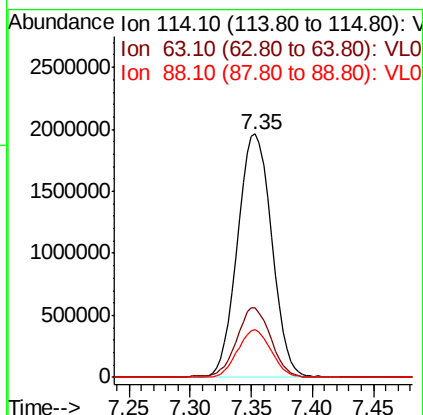
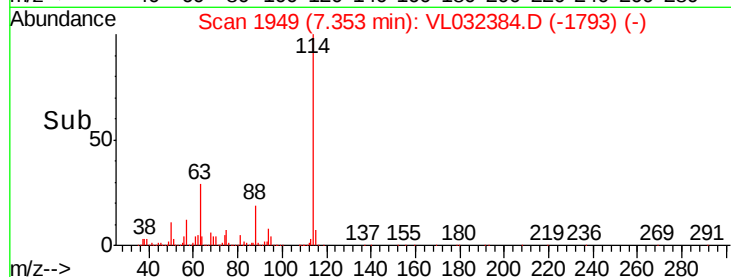
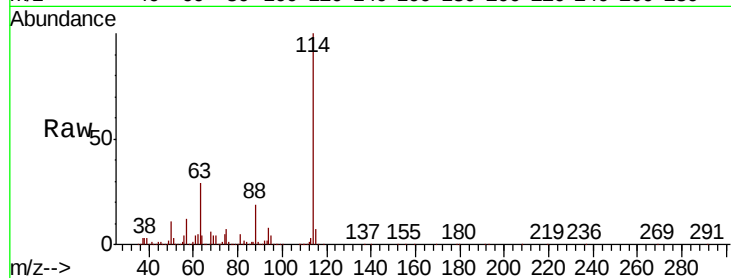
#33  
 1,4-Difluorobenzene  
 Concen: 10.00 ppbv  
 RT: 7.35 min Scan# 1949  
 Delta R.T. -0.00 min  
 Lab File: VL032384.D  
 Acq: 16 Aug 2018 19:42

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SG06-MIVIDL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 29.0  | 22.0  | 33.0  |
| 88      | 19.2  | 15.3  | 22.9  |

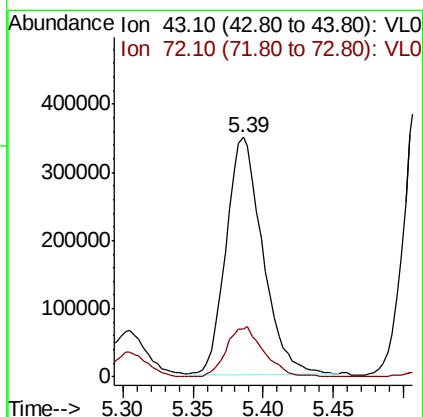
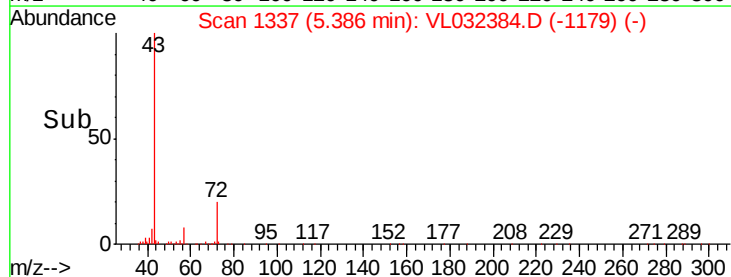
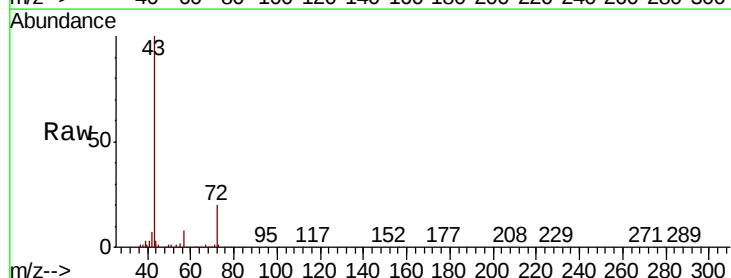
Manual Integrations  
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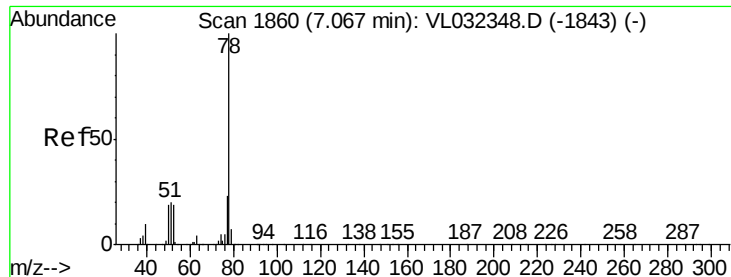
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#34  
 2-Butanone  
 Concen: 2.44 ppbv  
 RT: 5.39 min Scan# 1337  
 Delta R.T. 0.01 min  
 Lab File: VL032384.D  
 Acq: 16 Aug 2018 19:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 72      | 22.0  | 17.9  | 26.9  |





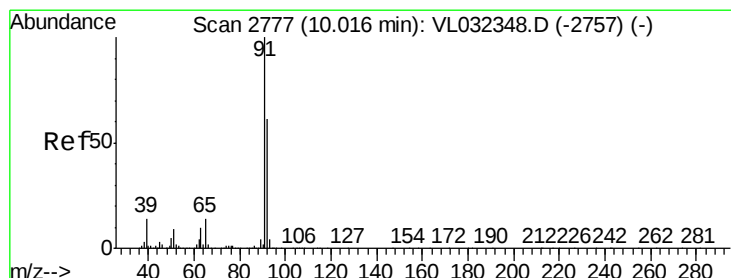
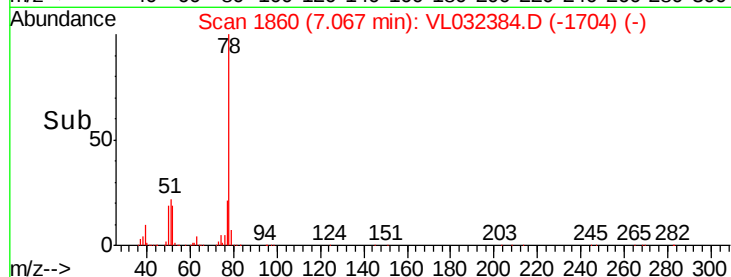
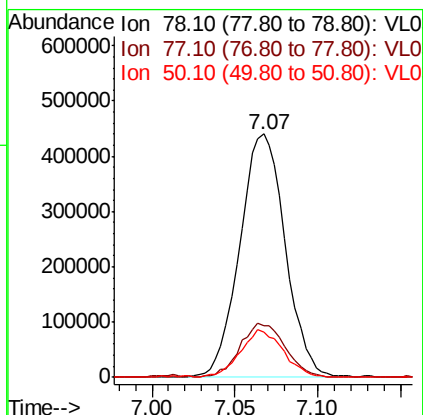
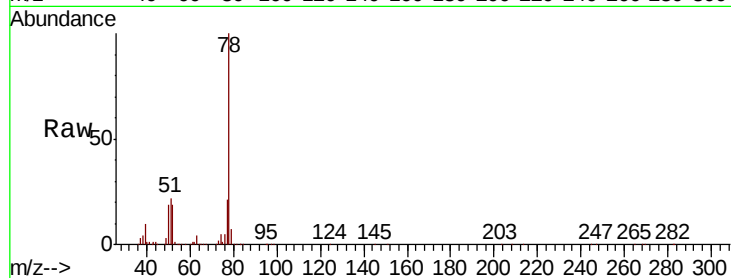
#36  
Benzene  
Concen: 2.59 ppbv  
RT: 7.07 min Scan# 1860  
Delta R.T. 0.00 min  
Lab File: VL032384.D  
Acq: 16 Aug 2018 19:42

Instrument :  
MSVOA\_L  
ClientSampleId :  
SG06-MIVIDL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 78      | 100   |       |       |
| 77      | 21.1  | 18.0  | 27.0  |
| 50      | 18.7  | 15.1  | 22.7  |

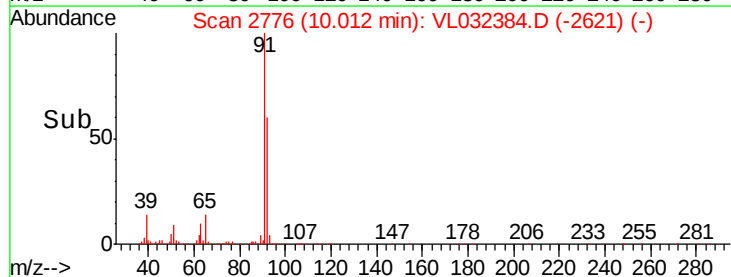
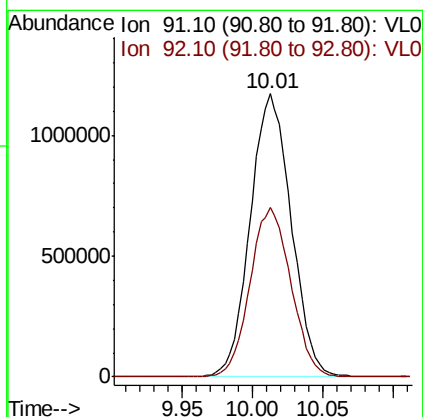
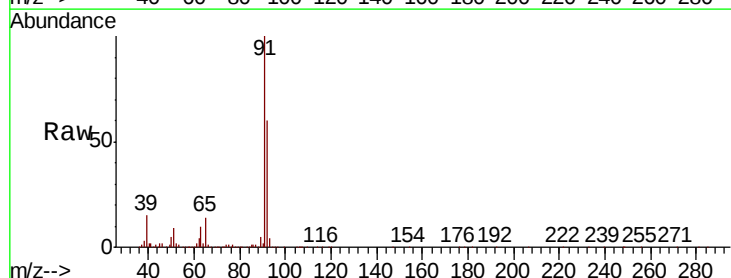
Manual Integrations  
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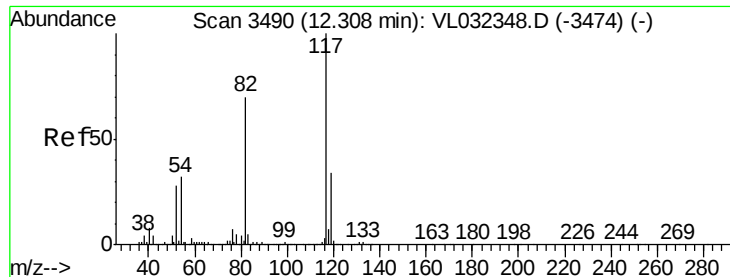
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#53  
Toluene  
Concen: 6.71 ppbv  
RT: 10.01 min Scan# 2776  
Delta R.T. -0.00 min  
Lab File: VL032384.D  
Acq: 16 Aug 2018 19:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 60.0  | 48.7  | 73.1  |





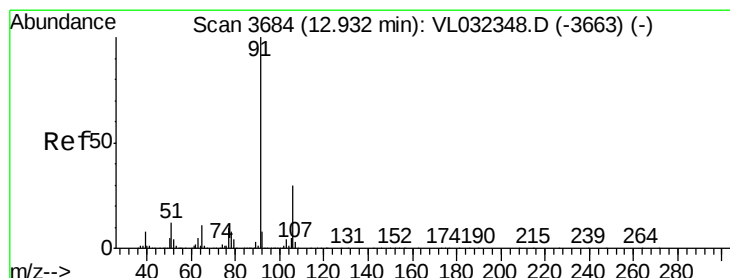
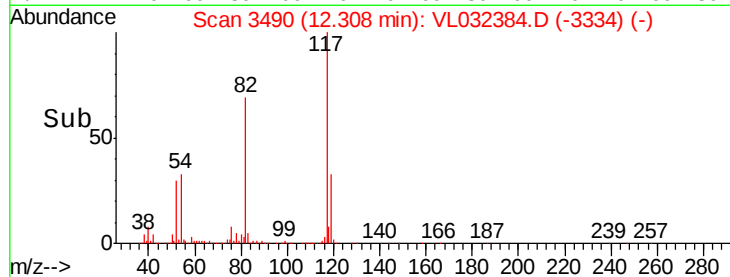
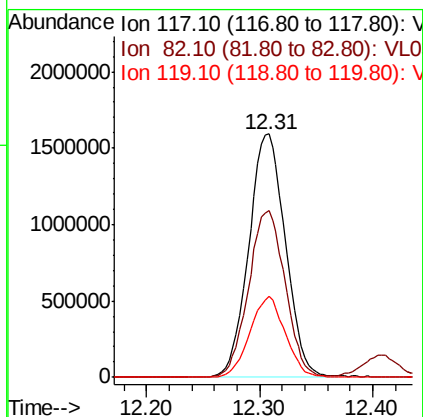
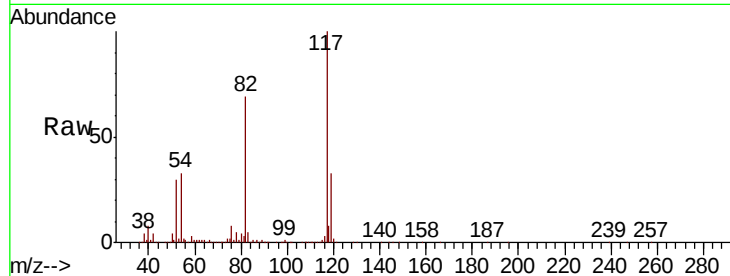
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Chlorobenzene-d5  
Concen: 10.00 ppbv  
RT: 12.31 min Scan# 3490  
Delta R.T. 0.00 min  
Lab File: VL032384.D  
Acq: 16 Aug 2018 19:42

Instrument :  
MSVOA\_L  
ClientSampleId :  
SG06-MIVIDL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 68.6  | 55.1  | 82.7  |
| 119     | 32.1  | 46.0  | 69.0  |

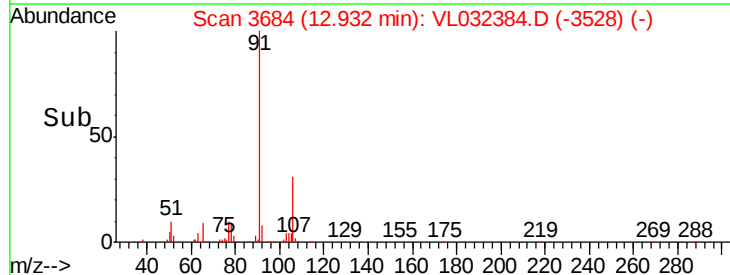
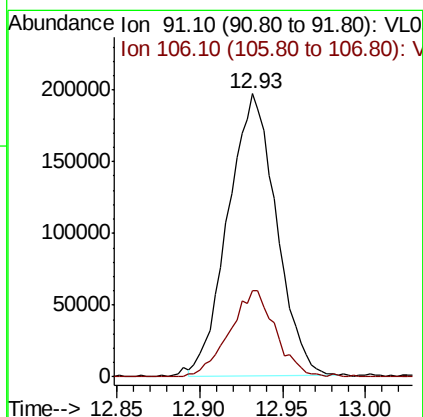
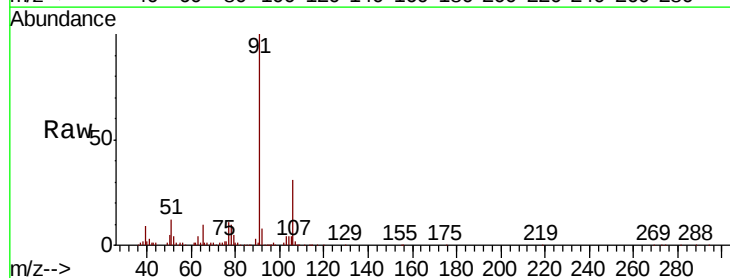
Manual Integrations  
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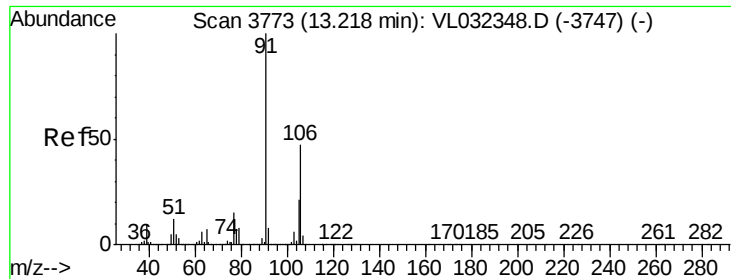
apatel  
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#58  
Ethyl Benzene  
Concen: 0.92 ppbv  
RT: 12.93 min Scan# 3684  
Delta R.T. 0.00 min  
Lab File: VL032384.D  
Acq: 16 Aug 2018 19:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 106     | 30.2  | 24.3  | 36.5  |





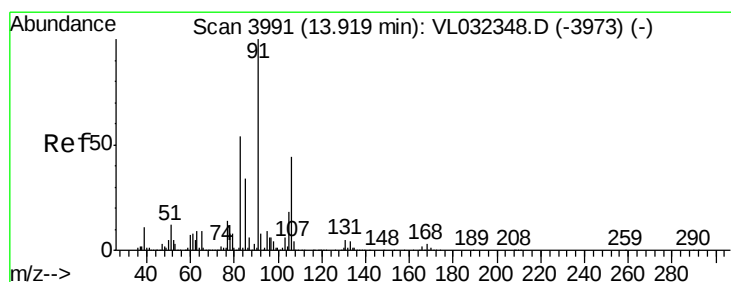
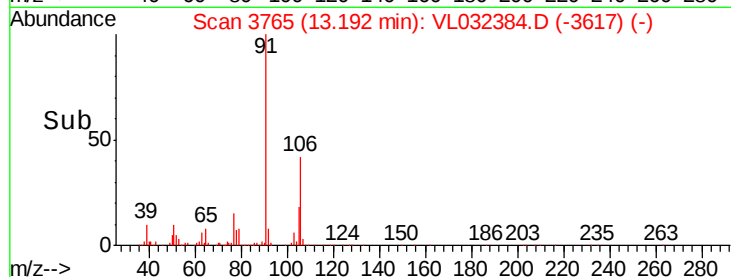
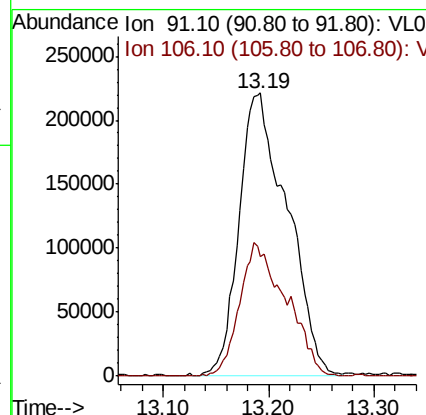
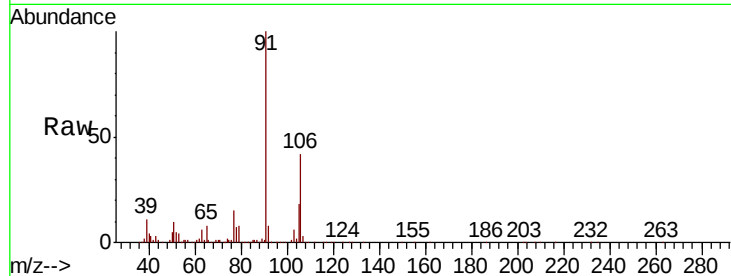
#59  
m/p-Xylene  
Concen: 1.90 ppbv  
RT: 13.19 min Scan# 3765  
Delta R.T. -0.03 min  
Lab File: VL032384.D  
Acq: 16 Aug 2018 19:42

Instrument :  
MSVOA\_L  
ClientSampleId :  
SG06-MIVIDL

Tot Ion: 91 Resp: 696159  
Ion Ratio Lower Upper  
91 100  
106 45.8 37.0 55.4

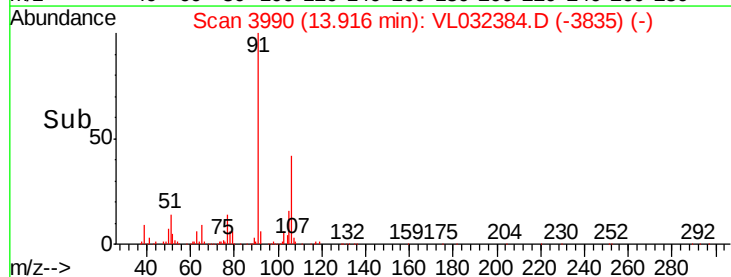
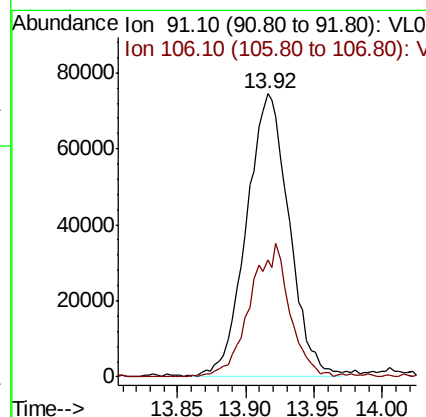
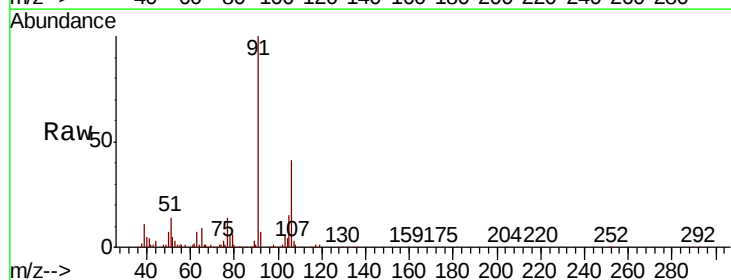
Manual Integrations  
APPROVED

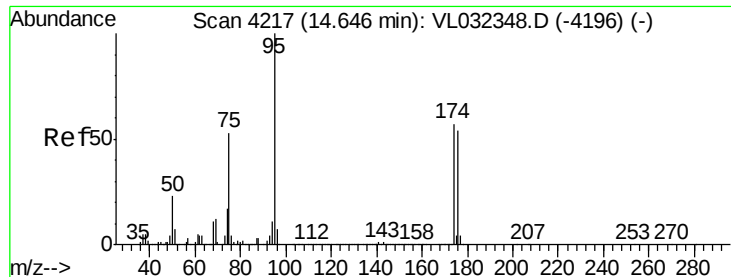
apatel  
8/20/2018 3:18:18 PM



#60  
o-Xylene  
Concen: 0.45 ppbv  
RT: 13.92 min Scan# 3990  
Delta R.T. -0.00 min  
Lab File: VL032384.D  
Acq: 16 Aug 2018 19:42

Tgt Ion: 91 Resp: 162134  
Ion Ratio Lower Upper  
91 100  
106 44.0 22.3 66.8





#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.10 ppbv  
 RT: 14.65 min Scan# 4217  
 Delta R.T. 0.00 min  
 Lab File: VL032384.D  
 Acq: 16 Aug 2018 19:42

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SG06-MIVIDL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 56.6  | 46.2  | 69.4  |
| 175     | 4.1   | 3.4   | 5.0   |

Manual Integrations  
 APPROVED

apatel  
 8/20/2018 3:18:18 PM

