

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061319\  
 Data File : VL033920.D  
 Acq On : 14 Jun 2019 6:07  
 Operator : SY/AP  
 Sample : K3367-03DL 10X  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 OA1DL

Manual Integrations  
 APPROVED

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 6/17/2019 12:37:35 AM

Quant Time: Jun 14 09:32:28 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Jun 0  
 QLast Update : Fri Jun 07 08:53:27 2019  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.75  | 49   | 792971   | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.27  | 114  | 1775285  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.22 | 117  | 1916550  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.56  | 95    | 1402894  | 8.91     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 89.10% |

| Target Compounds       | R.T. | QIon | Response | Conc  | Units  | Ovalue |
|------------------------|------|------|----------|-------|--------|--------|
| 13) Ethanol            | 3.65 | 45   | 38396m   | 3.379 | ppbv   |        |
| 15) Acetone            | 3.90 | 43   | 53161    | 0.460 | ppbv   | 100    |
| 20) Methylene Chloride | 4.40 | 84   | 21034    | 0.466 | ppbv # | 84     |
| 26) Hexane             | 5.77 | 57   | 13644m   | 0.170 | ppbv   |        |
| 53) Toluene            | 9.93 | 91   | 42350m   | 0.282 | ppbv   |        |

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

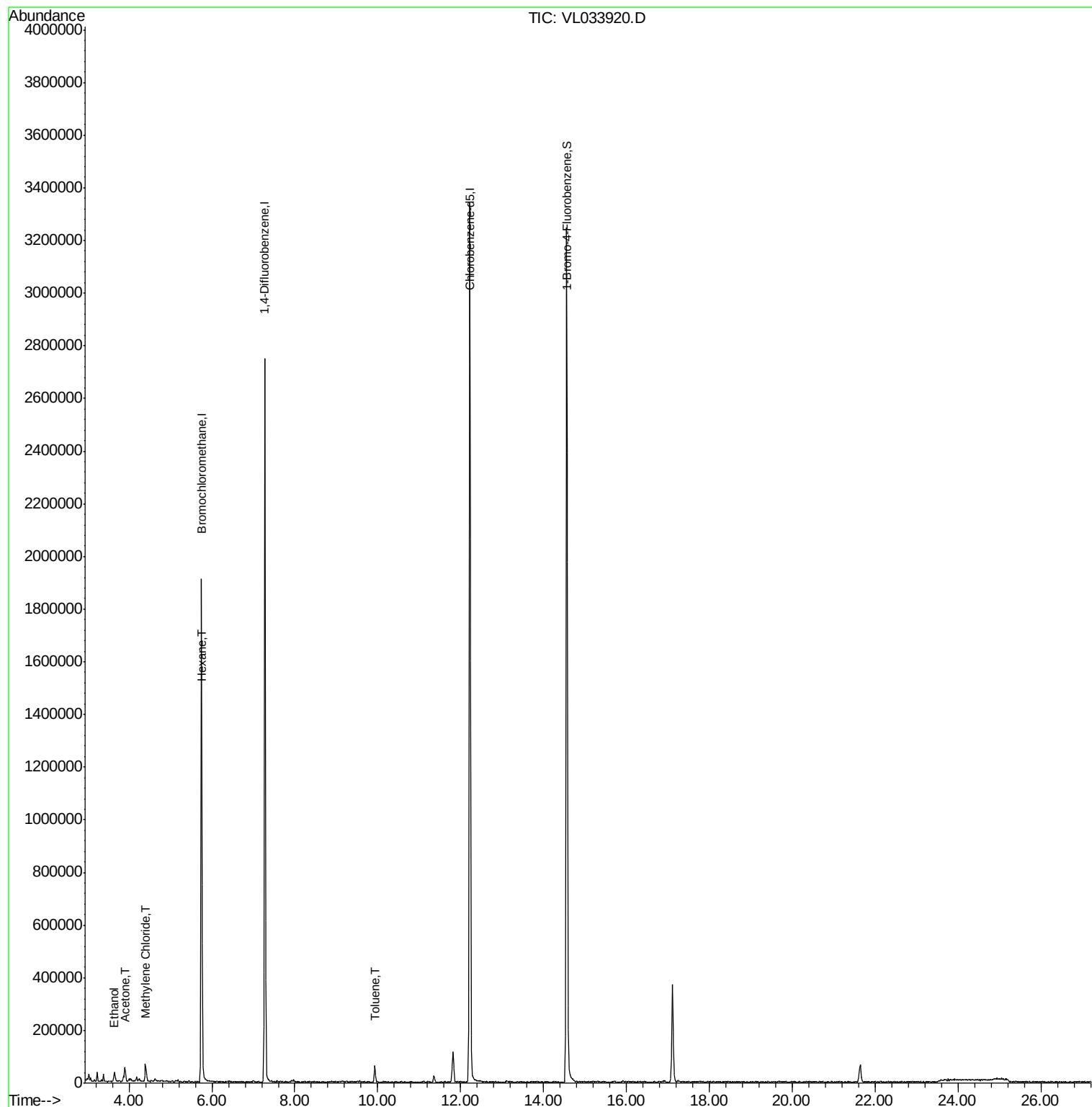
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL061319\  
Data File : VL033920.D  
Acq On : 14 Jun 2019 6:07  
Operator : SY/AP  
Sample : K3367-03DL 10X  
Misc : 400ml/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

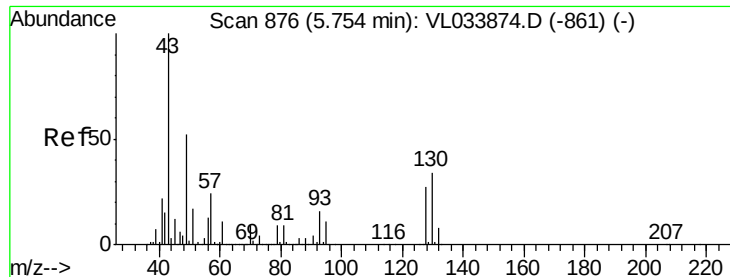
Instrument :  
MSVOA\_L  
ClientSampleId :  
QA1DL

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Quant Time: Jun 14 09:32:28 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Jun  
QLast Update : Fri Jun 07 08:53:27 2019  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.75 min Scan# 874

Delta R.T. -0.01 min

Lab File: VL033920.D

Acq: 14 Jun 2019 6:07

Instrument :

MSVOA\_L

ClientSampled :

QA1DL

Tot Ion: 49 Resp: 792971

Ion Ratio Lower Upper

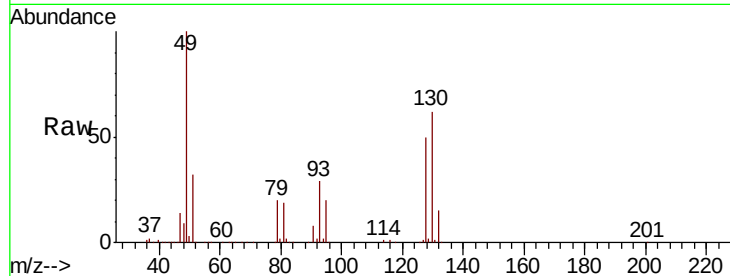
49 100

128 50.4 25.5 76.5

130 64.2 32.5 97.4

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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

5.75

400000

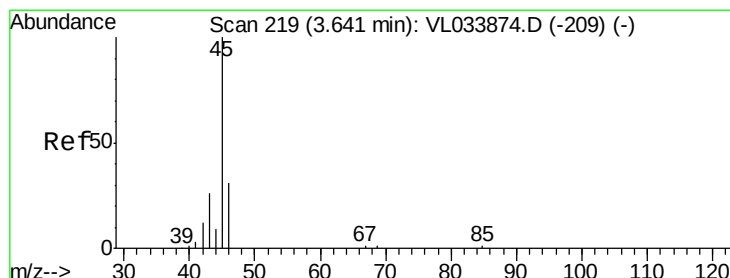
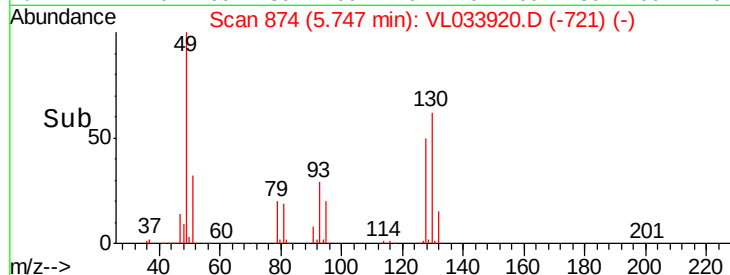
300000

200000

100000

0

Time-->



#13

Ethanol

Concen: 3.379 ppbv m

RT: 3.65 min Scan# 223

Delta R.T. 0.01 min

Lab File: VL033920.D

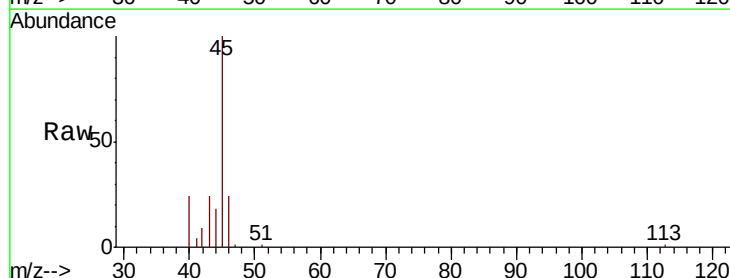
Acq: 14 Jun 2019 6:07

Tgt Ion: 45 Resp: 38396

Ion Ratio Lower Upper

45 100

46 33.8 15.3 61.1



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0

3.65

20000

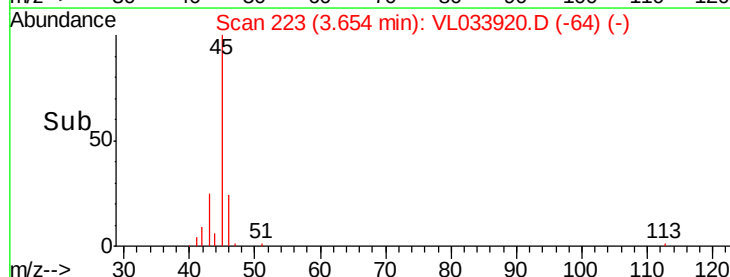
15000

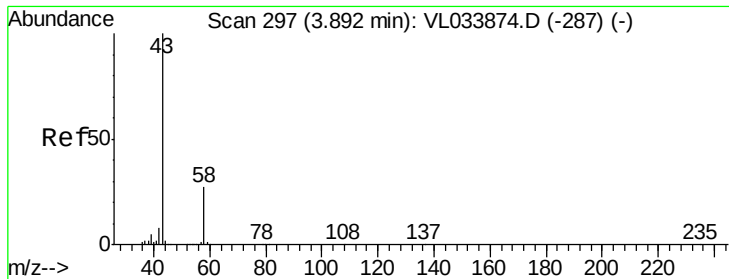
10000

5000

0

Time-->





#15

Acetone

Concen: 0.460 ppbv

RT: 3.90 min Scan# 299

Delta R.T. 0.01 min

Lab File: VL033920.D

Acq: 14 Jun 2019 6:07

Instrument :

MSVOA\_L

ClientSampleId :

QA1DL

Tot Ion: 43 Resp: 53161

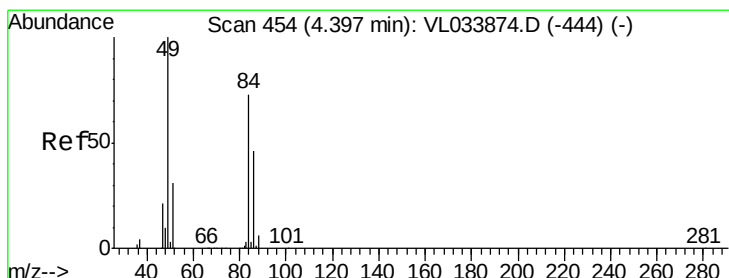
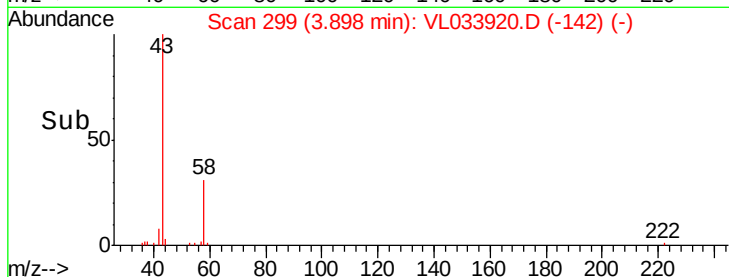
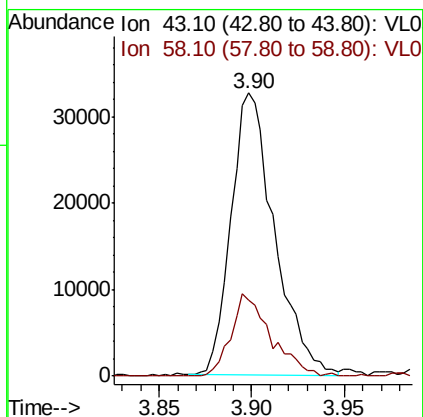
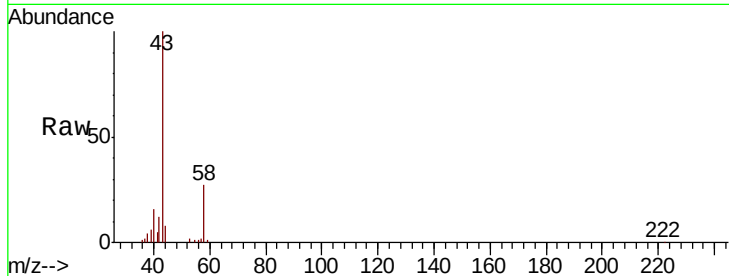
Ion Ratio Lower Upper

43 100

58 26.8 21.3 31.9

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#20

Methylene Chloride

Concen: 0.466 ppbv

RT: 4.40 min Scan# 455

Delta R.T. 0.00 min

Lab File: VL033920.D

Acq: 14 Jun 2019 6:07

Tgt Ion: 84 Resp: 21034

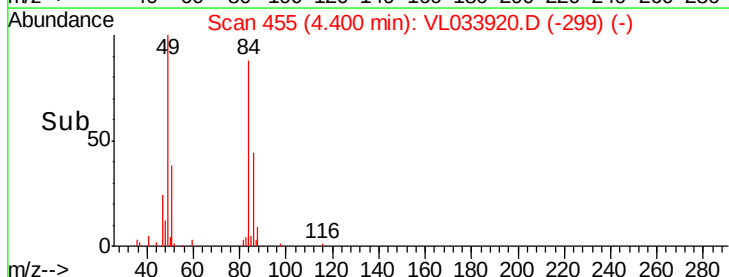
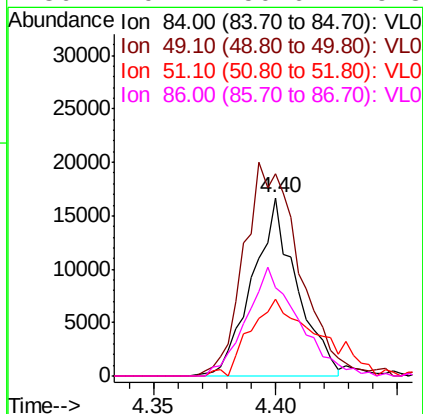
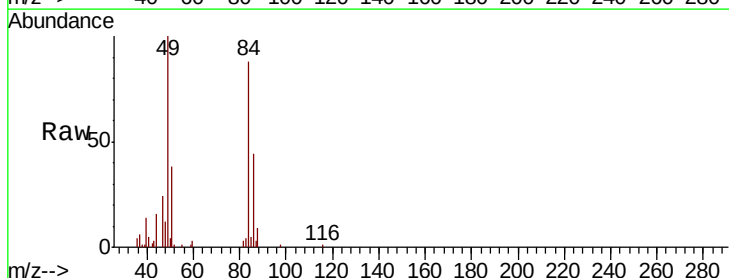
Ion Ratio Lower Upper

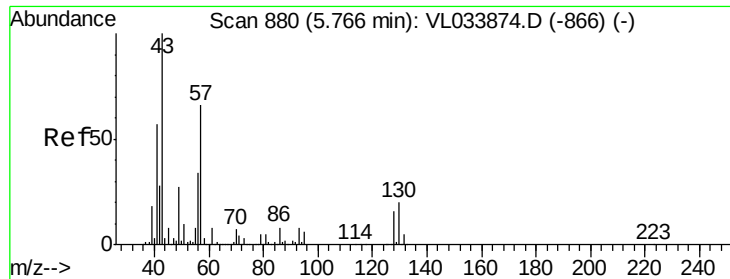
84 100

49 113.7 110.0 165.0

51 43.2 34.6 51.8

86 49.7 50.6 75.8#





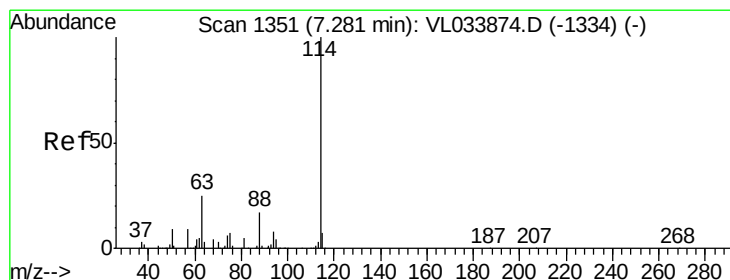
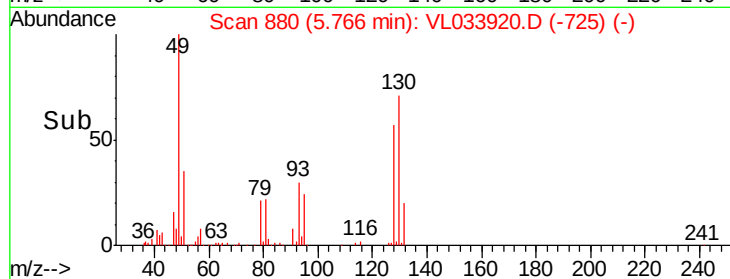
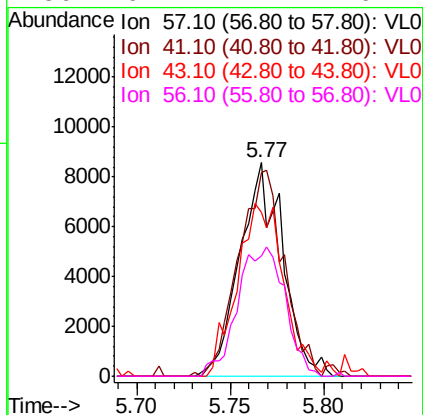
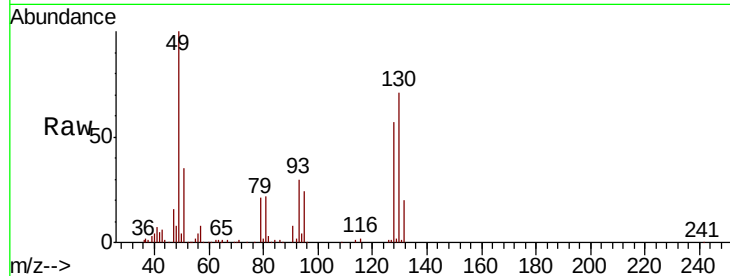
#26  
Hexane  
Concen: 0.170 ppbv m  
RT: 5.77 min Scan# 880  
Delta R.T. -0.00 min  
Lab File: VL033920.D  
Acq: 14 Jun 2019 6:07

Instrument :  
MSVOA\_L  
ClientSampleId :  
QA1DL

| Tot Ion | Ion   | Ratio | Lower  | Upper |
|---------|-------|-------|--------|-------|
| 57      | 100   |       |        |       |
| 41      | 103.2 | 71.4  | 107.2  |       |
| 43      | 90.6  | 183.7 | 275.5# |       |
| 56      | 67.1  | 42.7  | 64.1#  |       |

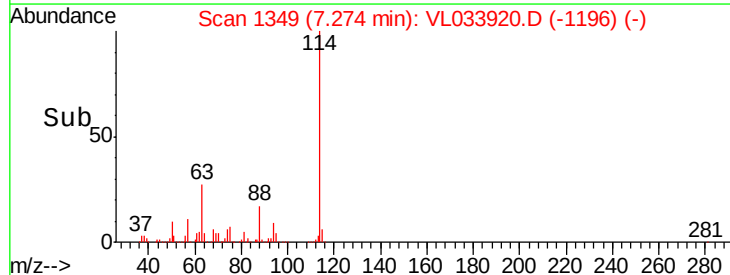
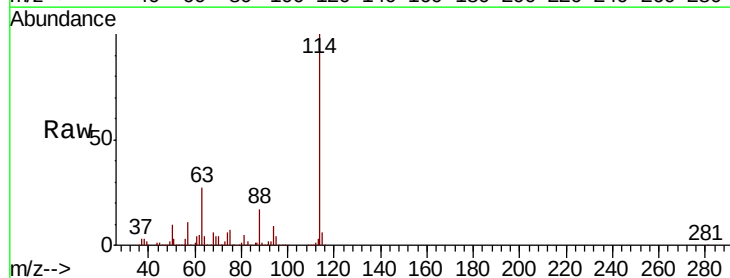
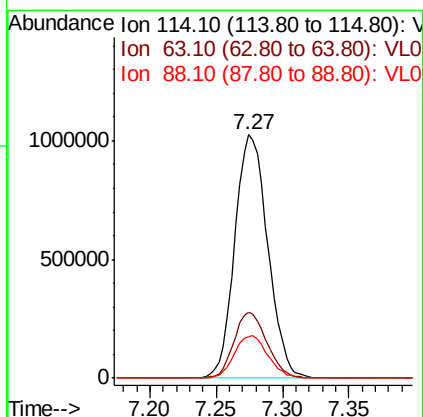
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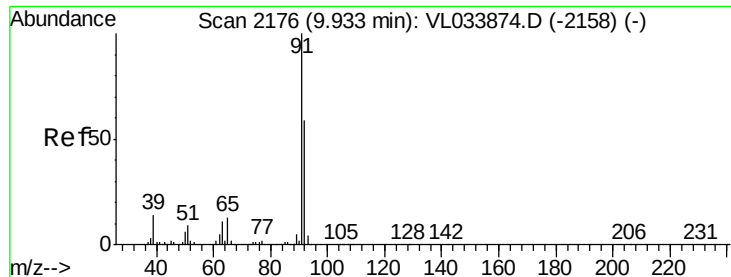
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#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 7.27 min Scan# 1349  
Delta R.T. -0.01 min  
Lab File: VL033920.D  
Acq: 14 Jun 2019 6:07

| Tgt Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 114     | 100  |       |       |       |
| 63      | 26.9 | 21.1  | 31.7  |       |
| 88      | 17.9 | 14.2  | 21.4  |       |





#53

Toluene

Concen: 0.282 ppbv m

RT: 9.93 min Scan# 2175

Delta R.T. -0.00 min

Lab File: VL033920.D

Acq: 14 Jun 2019 6:07

Instrument :

MSVOA\_L

ClientSampleId :

QA1DL

Tot Ion: 91 Resp: 42350

Ion Ratio Lower Upper

91 100

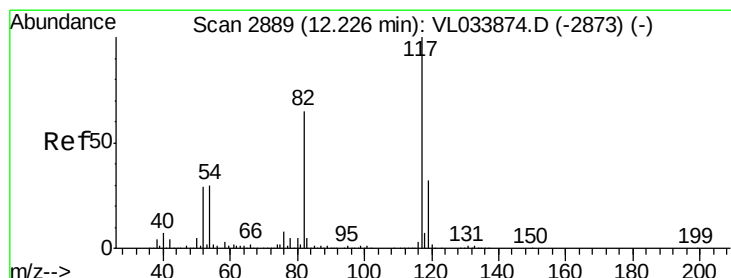
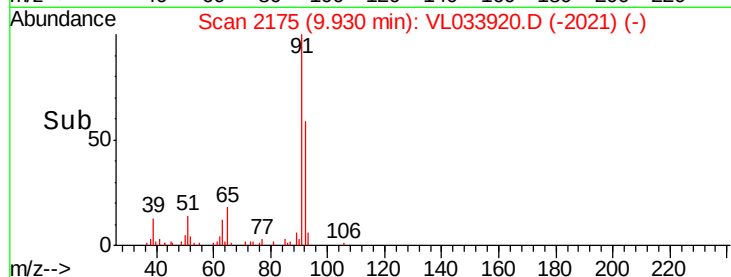
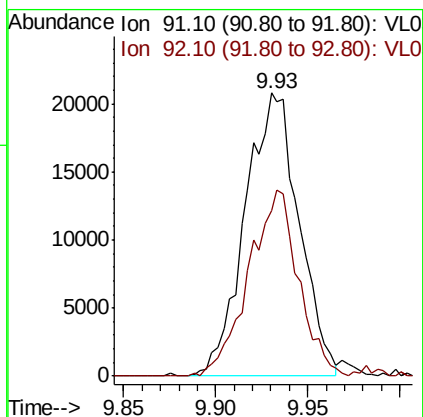
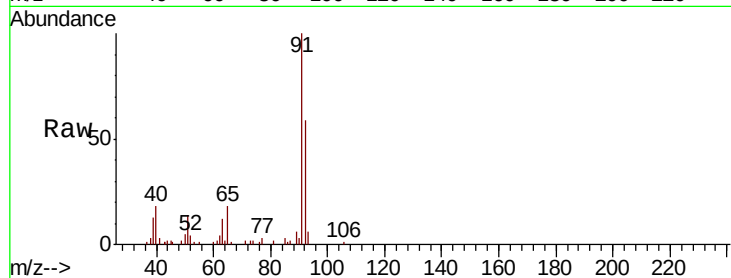
92 0.0 47.0 70.6#

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.22 min Scan# 2888

Delta R.T. -0.00 min

Lab File: VL033920.D

Acq: 14 Jun 2019 6:07

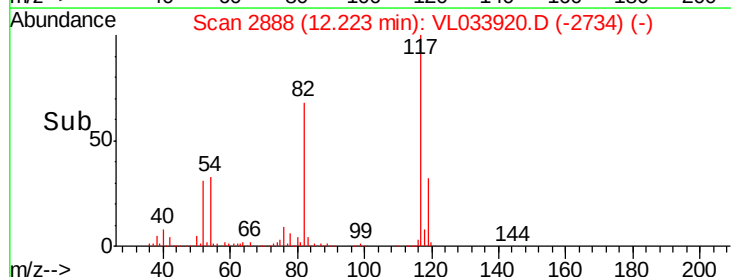
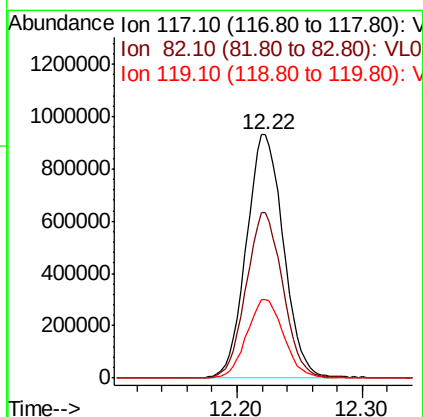
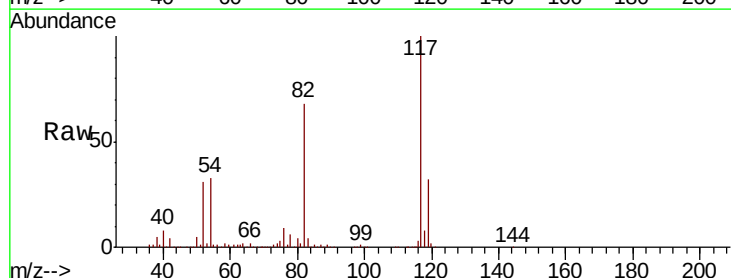
Tgt Ion: 117 Resp: 1916550

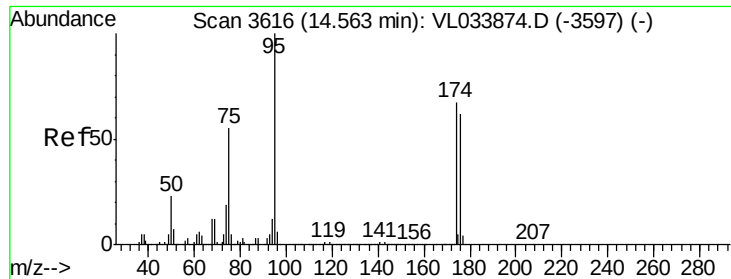
Ion Ratio Lower Upper

117 100

82 68.1 50.2 75.2

119 32.3 24.8 37.2





#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 8.912 ppbv  
 RT: 14.56 min Scan# 3615  
 Delta R.T. -0.00 min  
 Lab File: VL033920.D  
 Acq: 14 Jun 2019 6:07

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 OA1DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 66.8  | 54.0  | 81.0  |
| 175     | 4.8   | 3.8   | 5.8   |

Manual Integrations  
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MMDadoda  
 6/17/2019 12:37:35 AM

