

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032320\  
 Data File : VL034933.D  
 Acq On : 23 Mar 2020 17:21  
 Operator : SY/AP  
 Sample : L2004-01DL2 40X  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 AIR-01DL2

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Quant Time: Mar 24 04:26:18 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Mar 0  
 QLast Update : Mon Mar 09 16:42:53 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.65  | 49   | 1033257  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.17  | 114  | 2197595  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.10 | 117  | 2215363  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.44  | 95    | 1836513  | 10.63    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 106.30% |

| Target Compounds       | R.T. | QIon | Response | Conc  | Units | Ovalue |
|------------------------|------|------|----------|-------|-------|--------|
| 13) Ethanol            | 3.58 | 45   | 49316m   | 2.944 | ppbv  |        |
| 15) Acetone            | 3.83 | 43   | 64451    | 0.481 | ppbv  | 94     |
| 19) Isopropyl Alcohol  | 3.96 | 45   | 13549m   | 0.160 | ppbv  |        |
| 20) Methylene Chloride | 4.32 | 84   | 37431    | 0.884 | ppbv  | 85     |
| 26) Hexane             | 5.68 | 57   | 14419m   | 0.140 | ppbv  |        |
| 29) Chloroform         | 5.74 | 83   | 24170m   | 0.154 | ppbv  |        |
| 38) Trichloroethene    | 7.84 | 130  | 117755   | 1.583 | ppbv  | 94     |

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

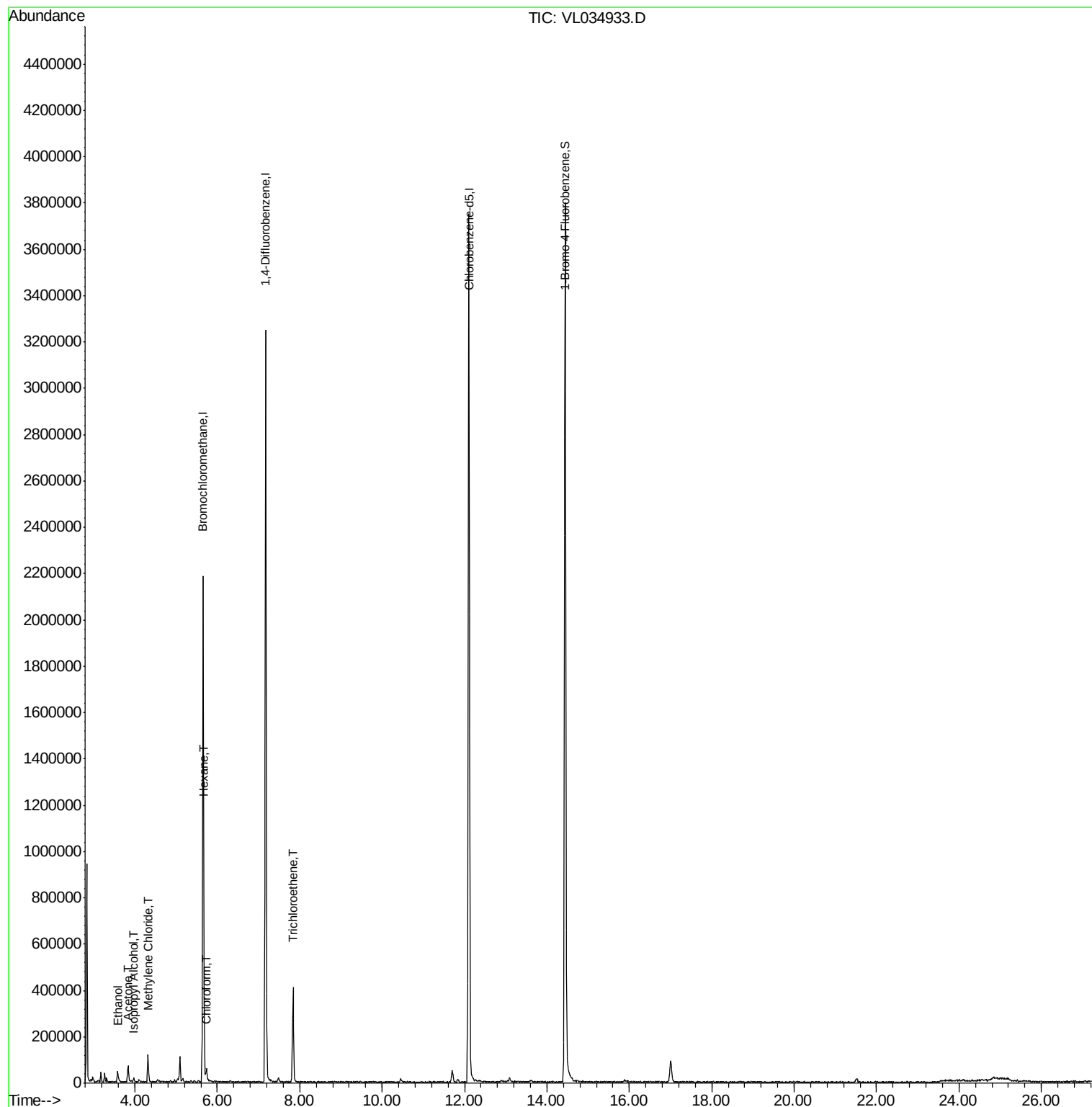
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL032320\  
Data File : VL034933.D  
Acq On : 23 Mar 2020 17:21  
Operator : SY/AP  
Sample : L2004-01DL2 40X  
Misc : 400ml/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

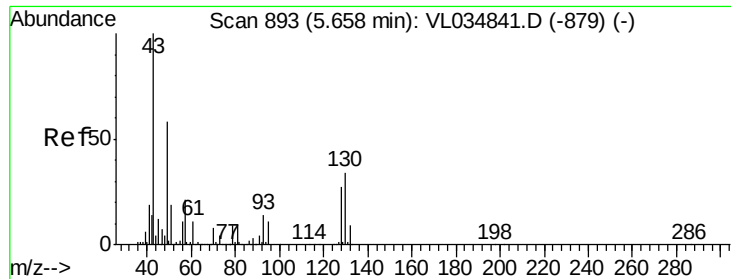
Instrument :  
MSVOA\_L  
ClientSampleId :  
AIR-01DL2

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Quant Time: Mar 24 04:26:18 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Mar  
QLast Update : Mon Mar 09 16:42:53 2020  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. -0.01 min

Lab File: VL034933.D

Acq: 23 Mar 2020 17:21

Instrument :

MSVOA\_L

ClientSampleId :

AIR-01DL2

Tot Ion: 49 Resp: 1033257

Ion Ratio Lower Upper

49 100

128 45.1 23.4 70.3

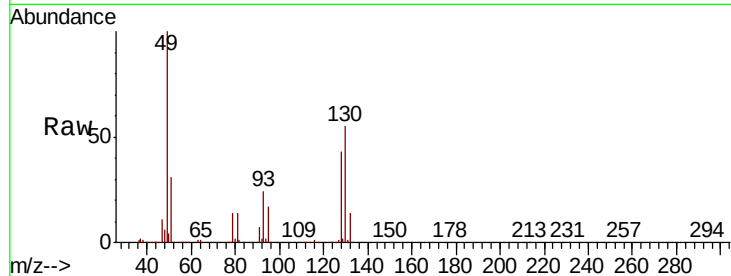
130 58.8 30.0 90.0

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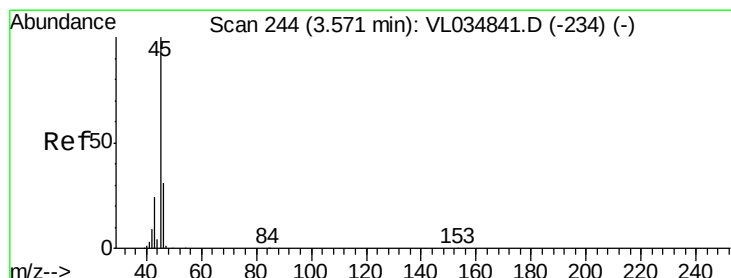
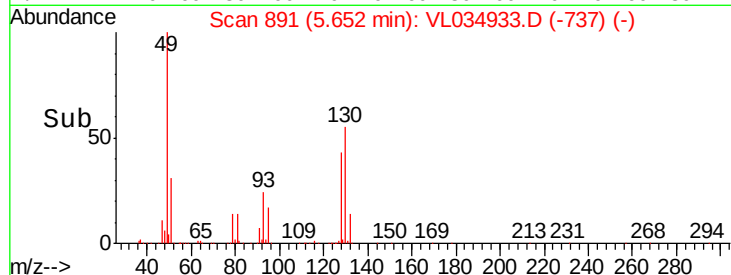
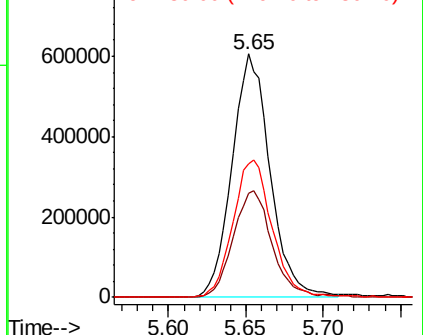
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#13

Ethanol

Concen: 2.944 ppbv m

RT: 3.58 min Scan# 246

Delta R.T. 0.01 min

Lab File: VL034933.D

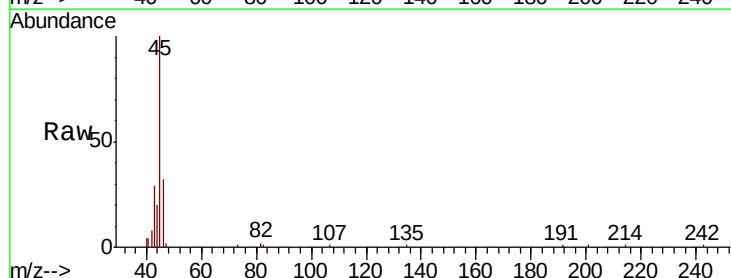
Acq: 23 Mar 2020 17:21

Tgt Ion: 45 Resp: 49316

Ion Ratio Lower Upper

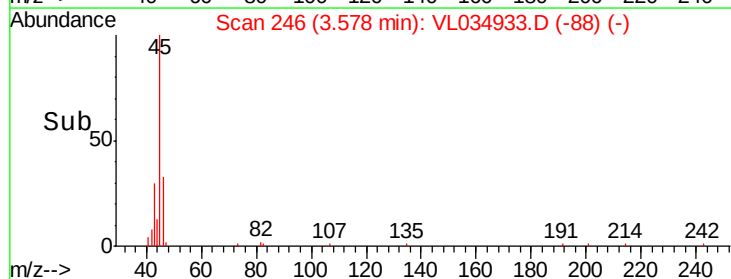
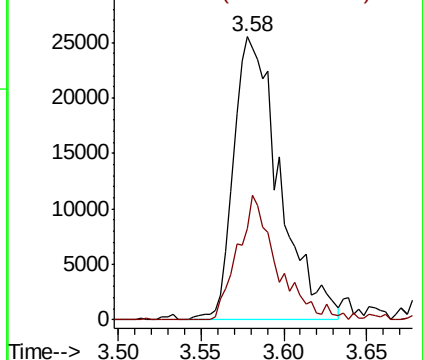
45 100

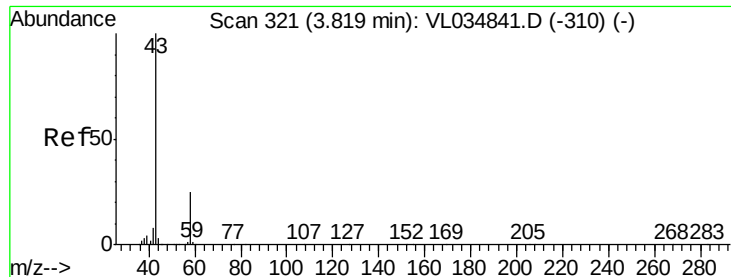
46 39.3 16.0 64.0



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 0.481 ppbv

RT: 3.83 min Scan# 325

Delta R.T. 0.01 min

Lab File: VL034933.D

Acq: 23 Mar 2020 17:21

Instrument :

MSVOA\_L

ClientSampleId :

AIR-01DL2

Tot Ion: 43 Resp: 64451

Ion Ratio Lower Upper

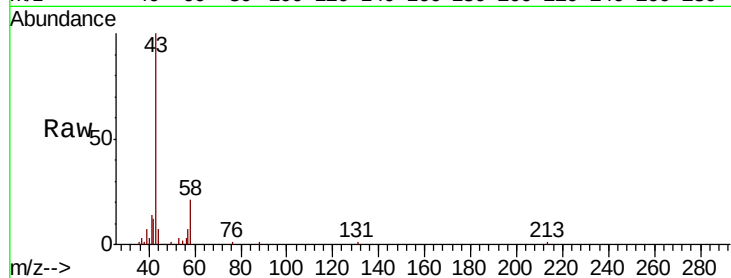
43 100

58 29.3 21.0 31.6

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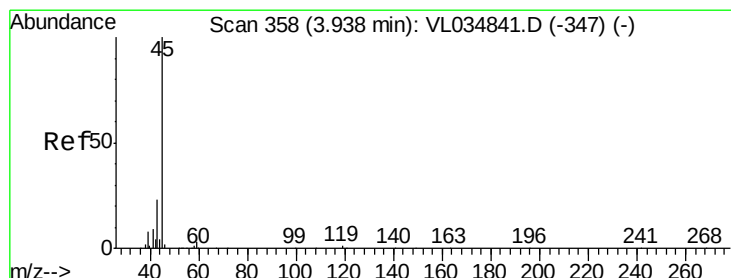
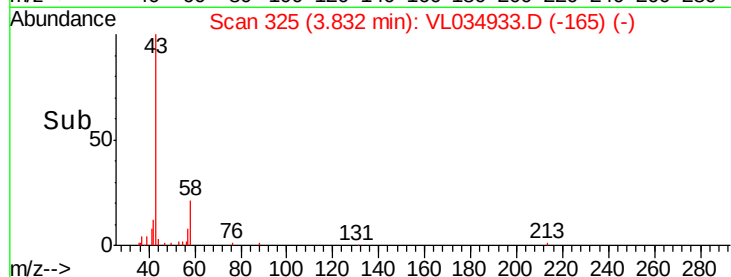
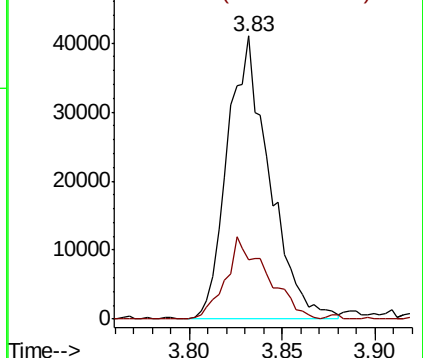
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#19

Isopropyl Alcohol

Concen: 0.160 ppbv m

RT: 3.96 min Scan# 366

Delta R.T. 0.03 min

Lab File: VL034933.D

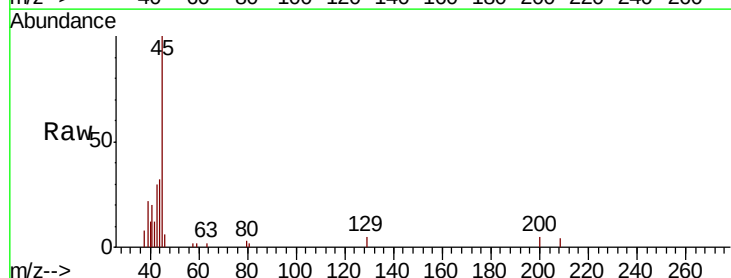
Acq: 23 Mar 2020 17:21

Tgt Ion: 45 Resp: 13549

Ion Ratio Lower Upper

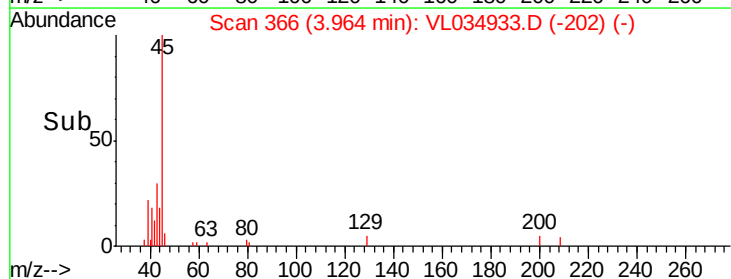
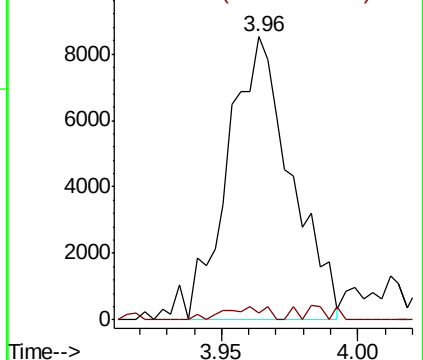
45 100

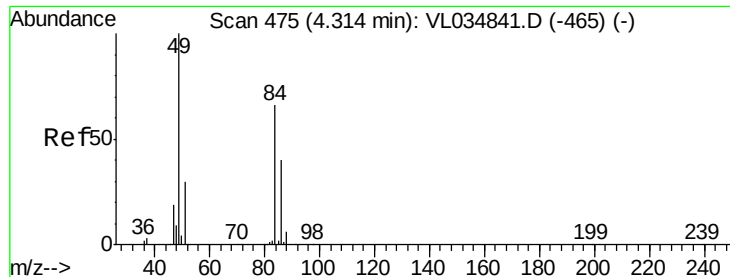
58 0.0 30.5 45.7#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





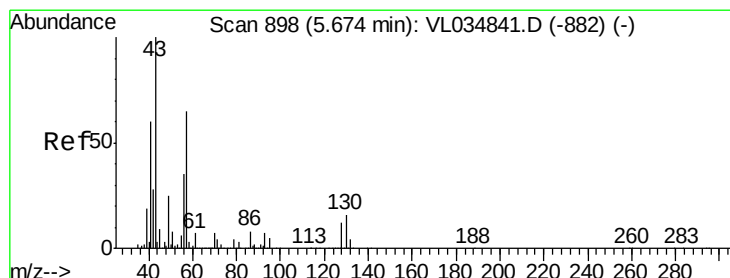
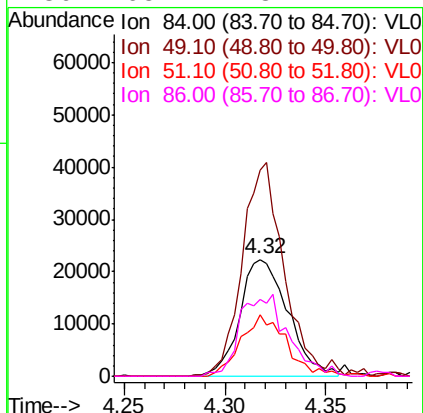
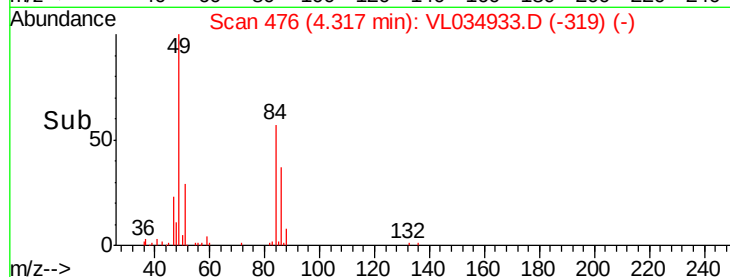
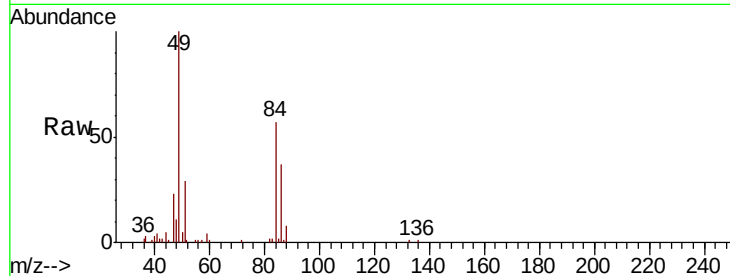
#20  
Methvlene Chloride  
Concen: 0.884 ppbv  
RT: 4.32 min Scan# 476  
Delta R.T. 0.00 min  
Lab File: VL034933.D  
Acq: 23 Mar 2020 17:21

Instrument :  
MSVOA\_L  
ClientSampleId :  
AIR-01DL2

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 84    | Resp: | 37431 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 176.0 | 121.5 | 182.3 |
| 51       | 52.6  | 36.6  | 55.0  |
| 86       | 65.4  | 48.2  | 72.2  |

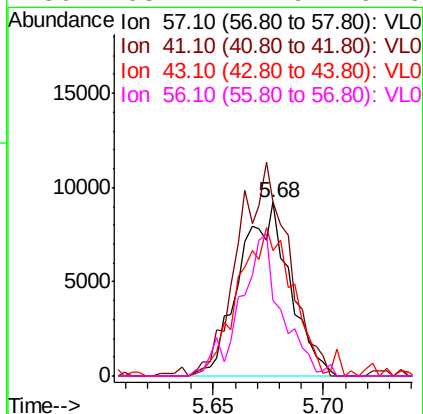
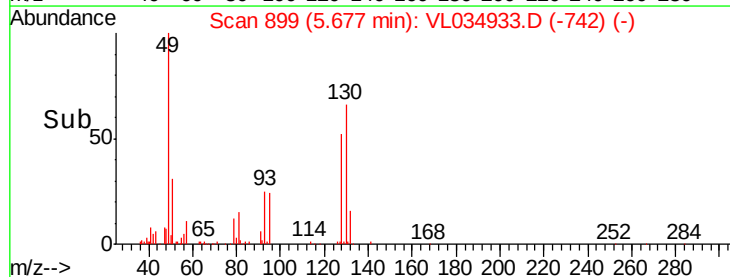
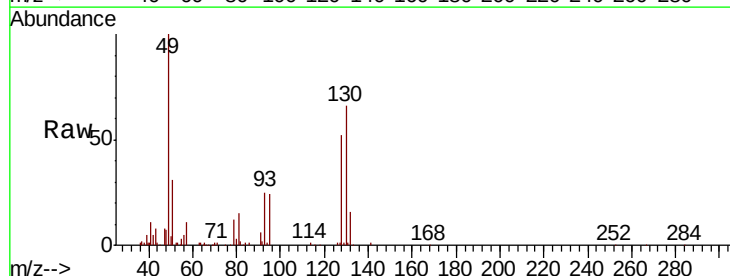
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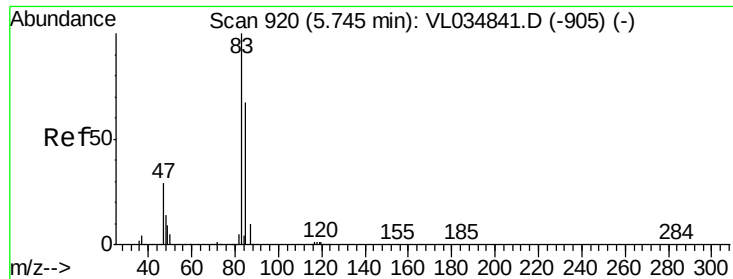
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#26  
Hexane  
Concen: 0.140 ppbv m  
RT: 5.68 min Scan# 899  
Delta R.T. 0.00 min  
Lab File: VL034933.D  
Acq: 23 Mar 2020 17:21

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 57    | Resp: | 14419  |
| Ion      | Ratio | Lower | Upper  |
| 57       | 100   |       |        |
| 41       | 126.1 | 72.6  | 109.0# |
| 43       | 94.8  | 183.8 | 275.6# |
| 56       | 68.1  | 41.9  | 62.9#  |





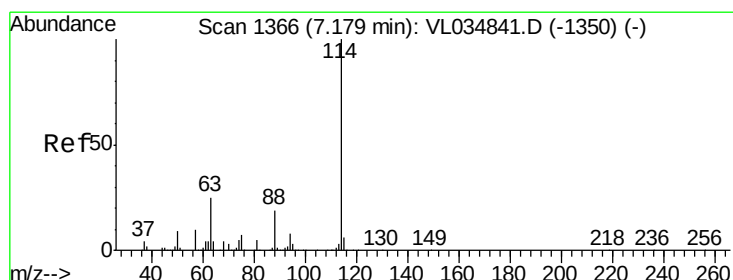
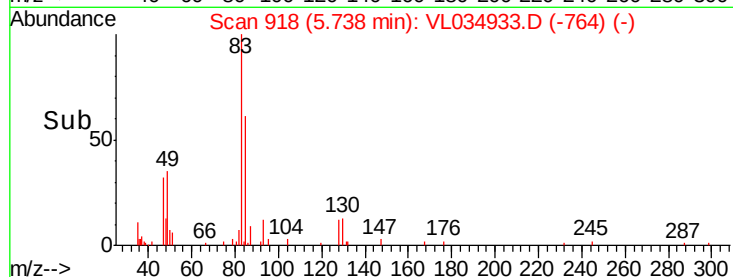
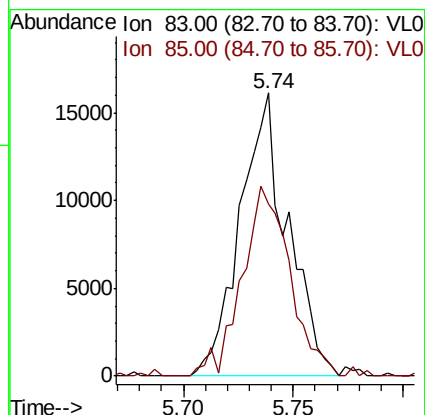
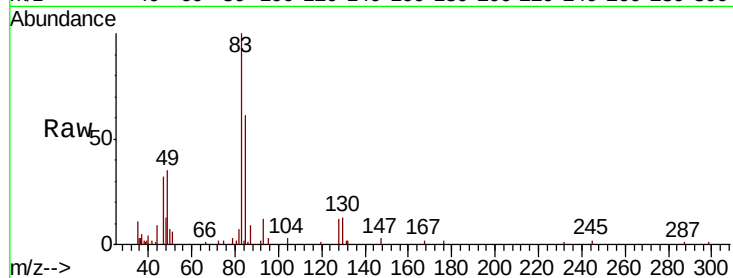
#29  
Chloroform  
Concen: 0.154 ppbv m  
RT: 5.74 min Scan# 918  
Delta R.T. -0.01 min  
Lab File: VL034933.D  
Acq: 23 Mar 2020 17:21

Instrument :  
MSVOA\_L  
ClientSampleId :  
AIR-01DL2

| Tot Ion   | 83   | Resp  | 24170 |
|-----------|------|-------|-------|
| Ion Ratio | 100  | Lower | Upper |
| 83        | 100  |       |       |
| 85        | 60.7 | 53.8  | 80.6  |

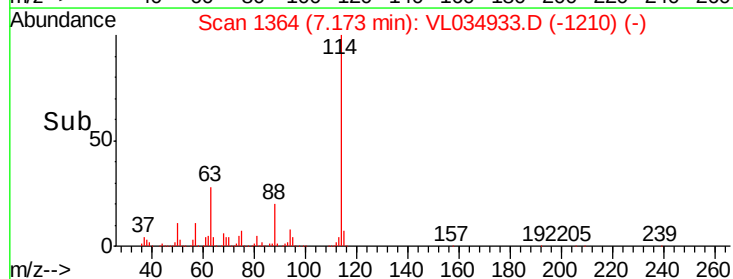
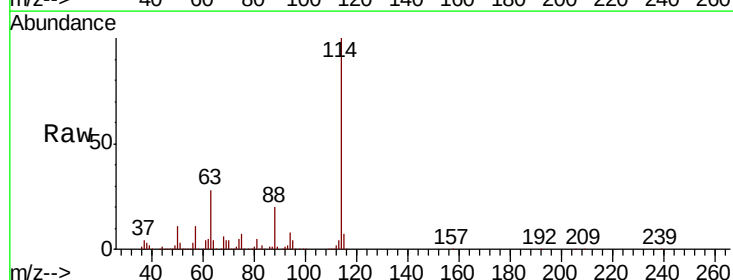
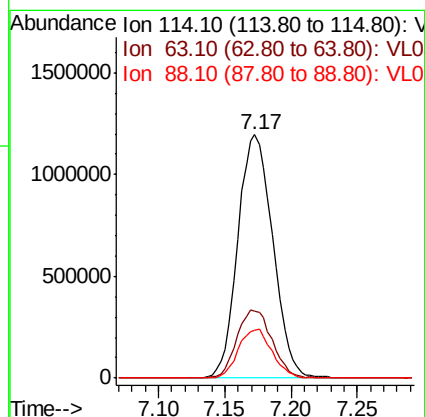
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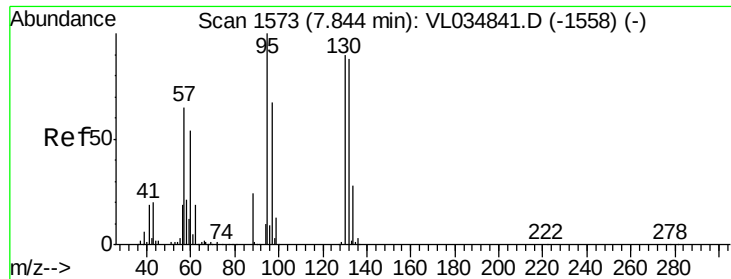
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#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 7.17 min Scan# 1364  
Delta R.T. -0.01 min  
Lab File: VL034933.D  
Acq: 23 Mar 2020 17:21

| Tgt Ion   | 114  | Resp  | 2197595 |
|-----------|------|-------|---------|
| Ion Ratio | 100  | Lower | Upper   |
| 114       | 100  |       |         |
| 63        | 28.3 | 20.6  | 31.0    |
| 88        | 19.5 | 15.0  | 22.6    |





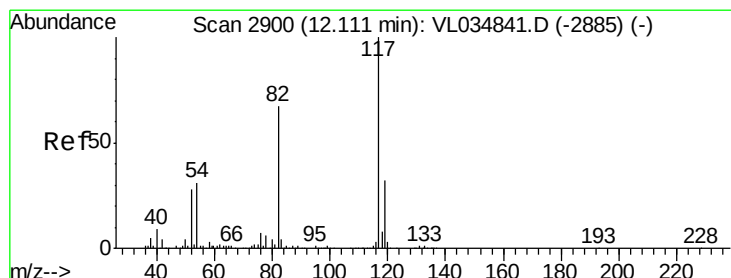
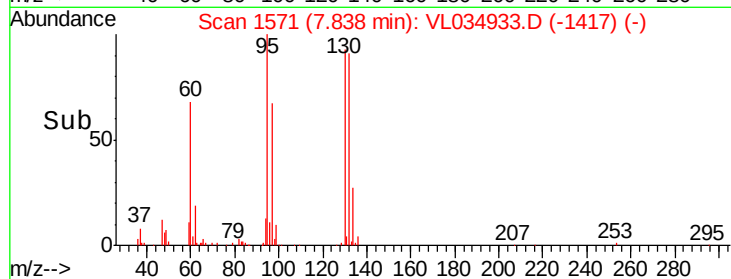
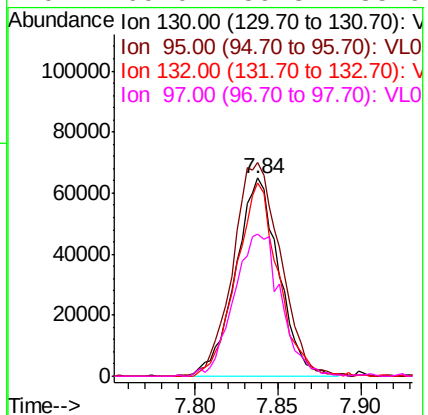
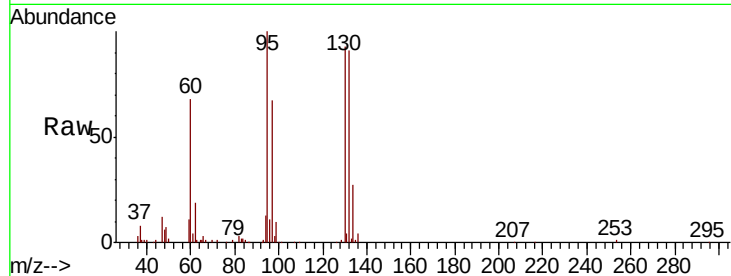
#38  
 Trichloroethene  
 Concen: 1.583 ppbv  
 RT: 7.84 min Scan# 1571  
 Delta R.T. -0.01 min  
 Lab File: VL034933.D  
 Acq: 23 Mar 2020 17:21

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 AIR-01DL2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 130     | 100   |       |       |
| 95      | 102.6 | 88.5  | 132.7 |
| 132     | 93.4  | 78.0  | 117.0 |
| 97      | 69.0  | 59.3  | 88.9  |

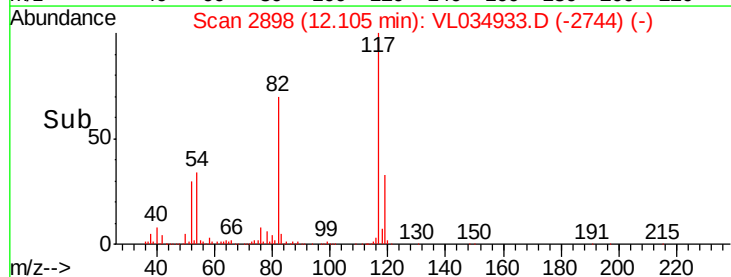
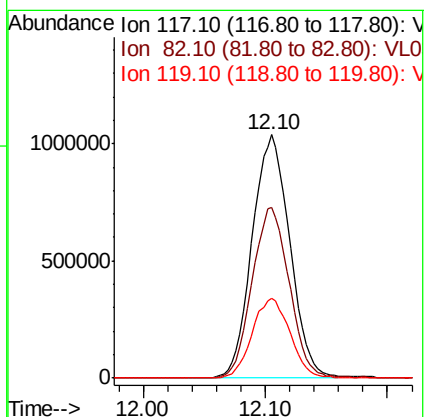
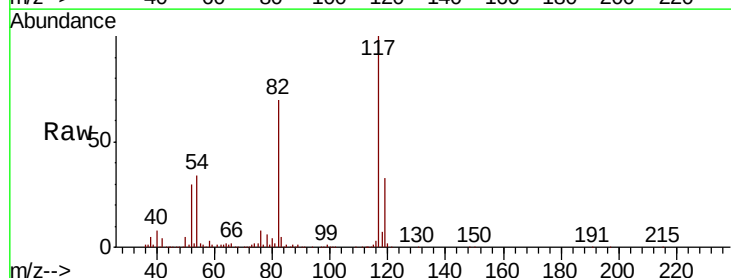
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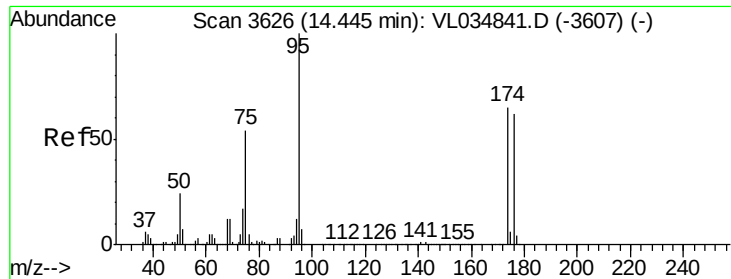
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#55  
 Chlorobenzene-d5  
 Concen: 10.000 ppbv  
 RT: 12.10 min Scan# 2898  
 Delta R.T. -0.01 min  
 Lab File: VL034933.D  
 Acq: 23 Mar 2020 17:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 70.0  | 51.1  | 76.7  |
| 119     | 33.2  | 27.3  | 40.9  |





#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.630 ppbv  
 RT: 14.44 min Scan# 3625  
 Delta R.T. -0.00 min  
 Lab File: VL034933.D  
 Acq: 23 Mar 2020 17:21

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 AIR-01DL2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 65.6  | 55.2  | 82.8  |
| 175     | 5.0   | 4.3   | 6.5   |

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