

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL010220\  
 Data File : VL034552.D  
 Acq On : 2 Jan 2020 18:39  
 Operator : SY/AP  
 Sample : K6473-03DL 10X  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 50-1DL

Manual Integrations  
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Quant Time: Jan 03 05:52:08 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL123019AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Dec 3  
 QLast Update : Mon Dec 30 14:58:50 2019  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.67  | 49   | 929263   | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.19  | 114  | 1863280  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.13 | 117  | 1817550  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.46  | 95    | 1527818  | 10.07    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 100.70% |

| Target Compounds | R.T. | QIon | Response | Conc  | Units | Ovalue |
|------------------|------|------|----------|-------|-------|--------|
| 9) Propene       | 2.99 | 41   | 7998     | 0.187 | ppbv  | 84     |
| 13) Ethanol      | 3.60 | 45   | 15823    | 1.336 | ppbv  | 94     |
| 15) Acetone      | 3.84 | 43   | 65537m   | 0.483 | ppbv  |        |

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

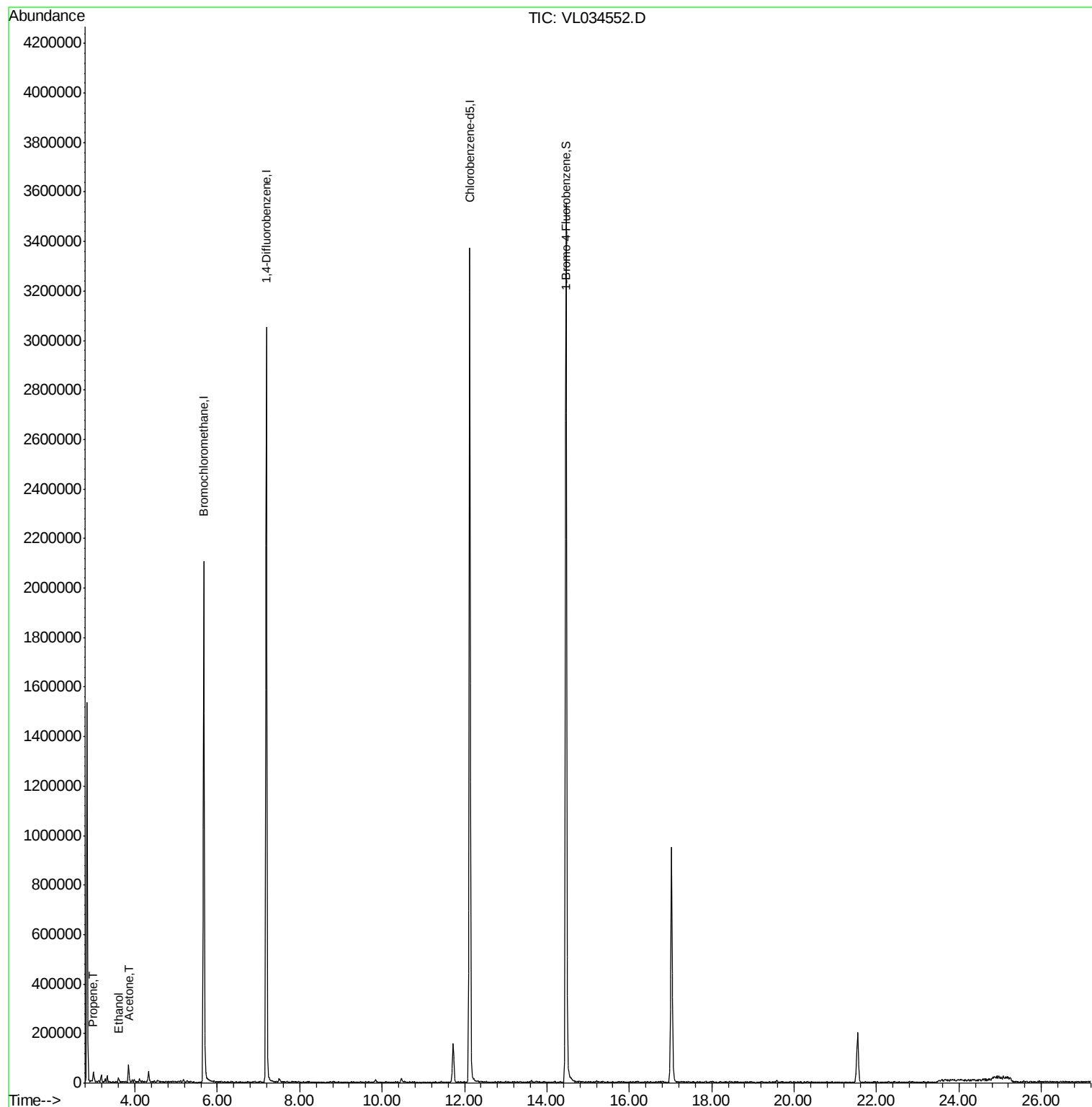
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL010220\  
Data File : VL034552.D  
Acq On : 2 Jan 2020 18:39  
Operator : SY/AP  
Sample : K6473-03DL 10X  
Misc : 400ml/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

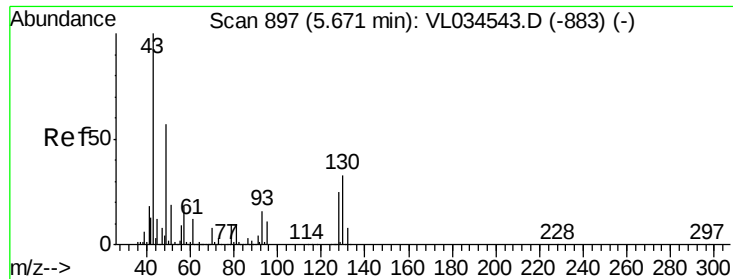
Instrument :  
MSVOA\_L  
ClientSampleId :  
50-1DL

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1/3/2020 12:13:15 PM

Quant Time: Jan 03 05:52:08 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL123019AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Dec  
QLast Update : Mon Dec 30 14:58:50 2019  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.01 min

Lab File: VL034552.D

Acq: 2 Jan 2020 18:39

Instrument :

MSVOA\_L

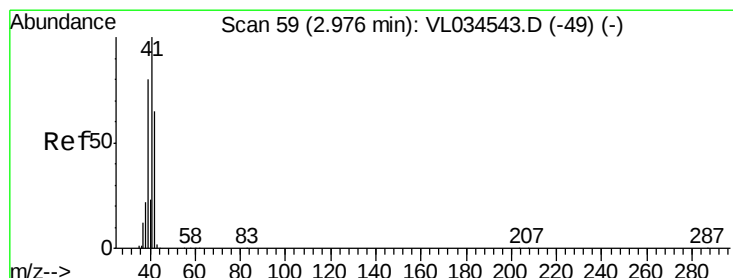
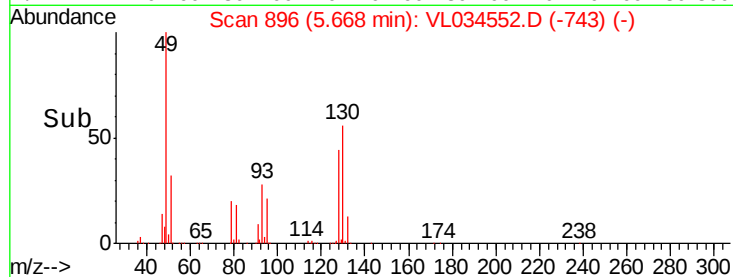
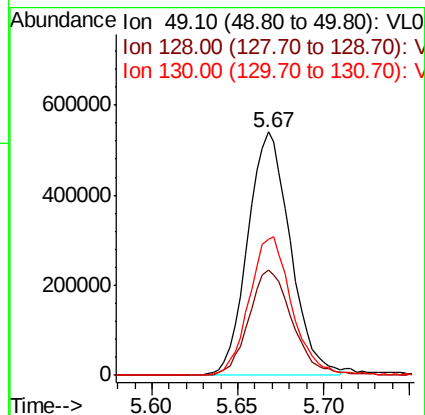
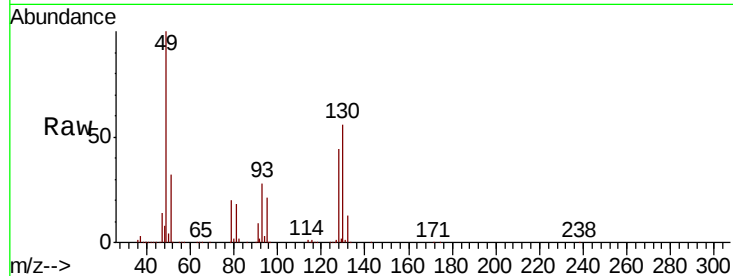
ClientSampled :

50-1DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 49      | 100   |       |       |
| 128     | 44.7  | 22.4  | 67.2  |
| 130     | 58.0  | 28.3  | 85.0  |

Manual Integrations  
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#9

Propene

Concen: 0.187 ppbv

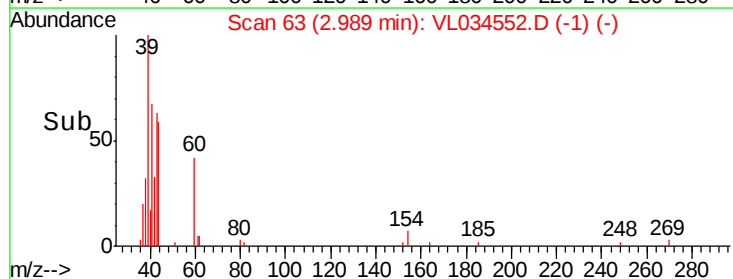
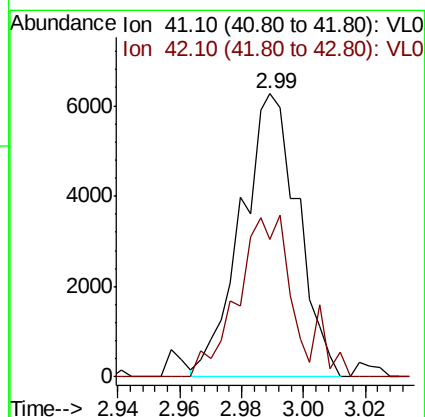
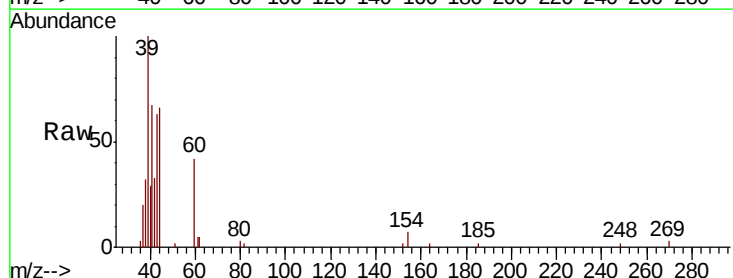
RT: 2.99 min Scan# 63

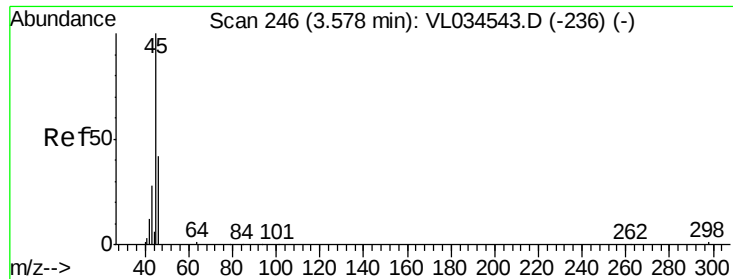
Delta R.T. 0.01 min

Lab File: VL034552.D

Acq: 2 Jan 2020 18:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 41      | 100   |       |       |
| 42      | 56.9  | 55.8  | 83.6  |





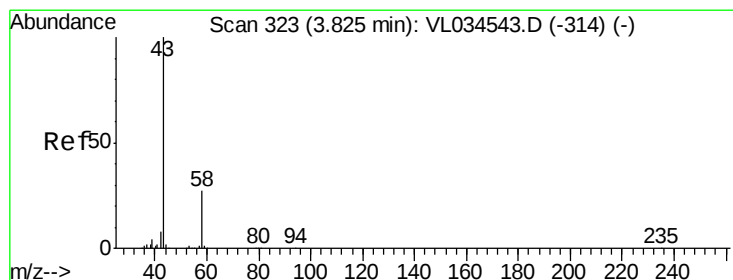
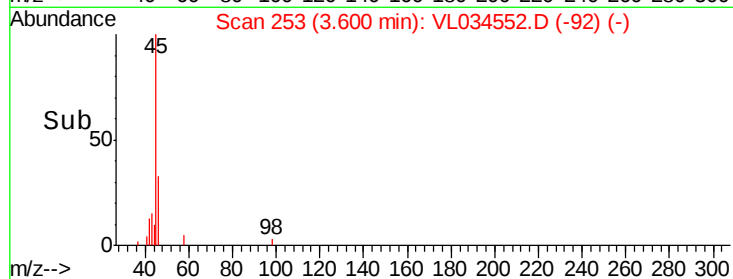
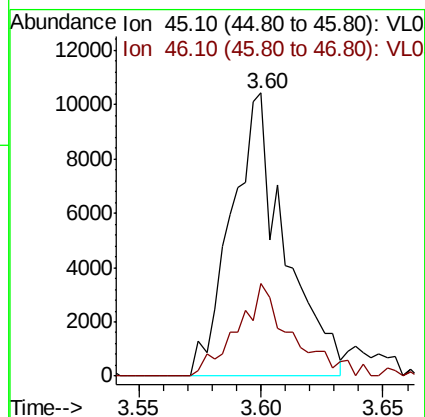
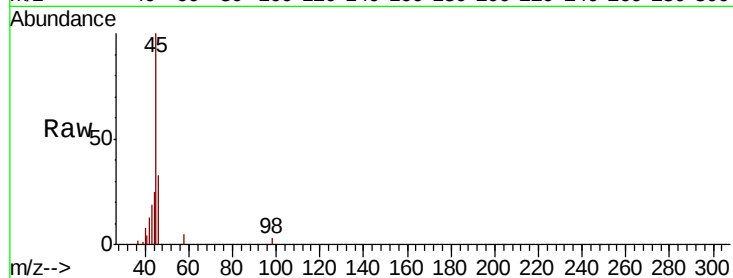
#13  
Ethanol  
Concen: 1.336 ppbv  
RT: 3.60 min Scan# 253  
Delta R.T. 0.02 min  
Lab File: VL034552.D  
Acq: 2 Jan 2020 18:39

Instrument :  
MSVOA\_L  
ClientSampled :  
50-1DL

| Tot Ion   | 45   | Resp  | 15823 |
|-----------|------|-------|-------|
| Ion Ratio | 100  | Lower | Upper |
| 45        | 100  |       |       |
| 46        | 33.9 | 14.9  | 59.7  |

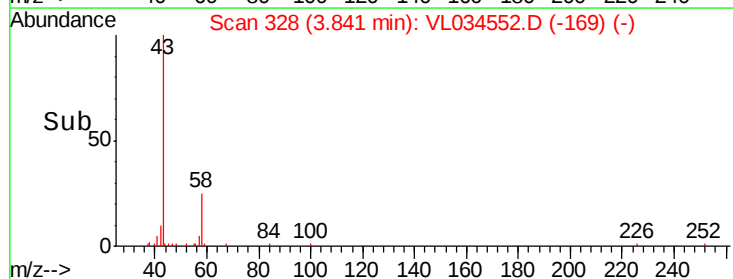
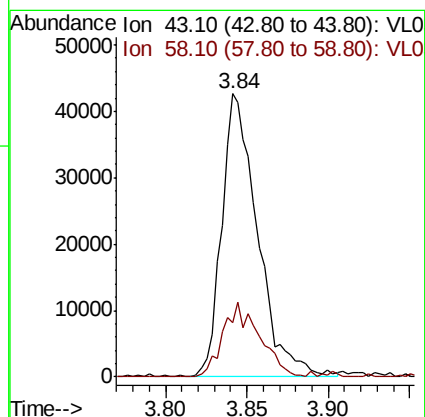
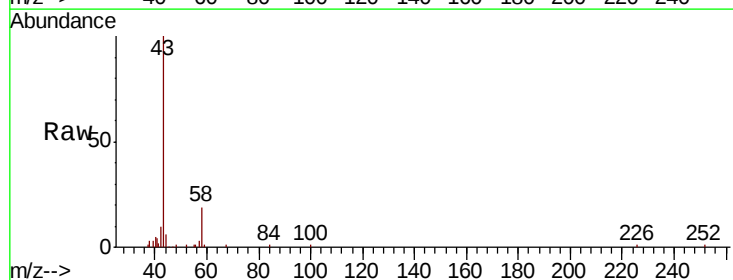
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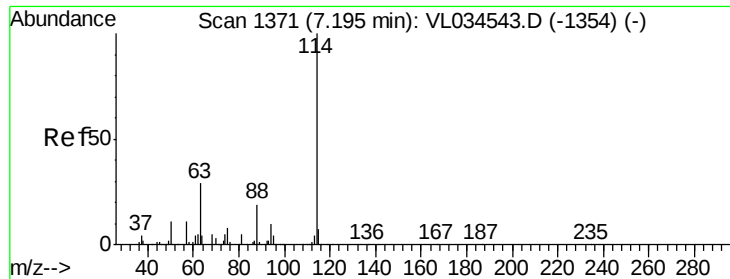
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#15  
Acetone  
Concen: 0.483 ppbv m  
RT: 3.84 min Scan# 328  
Delta R.T. 0.01 min  
Lab File: VL034552.D  
Acq: 2 Jan 2020 18:39

| Tgt Ion   | 43   | Resp  | 65537 |
|-----------|------|-------|-------|
| Ion Ratio | 100  | Lower | Upper |
| 43        | 100  |       |       |
| 58        | 26.9 | 20.4  | 30.6  |





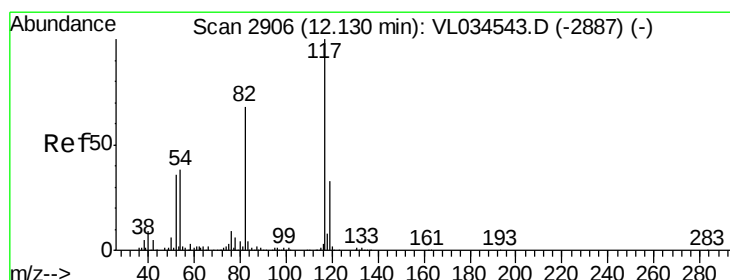
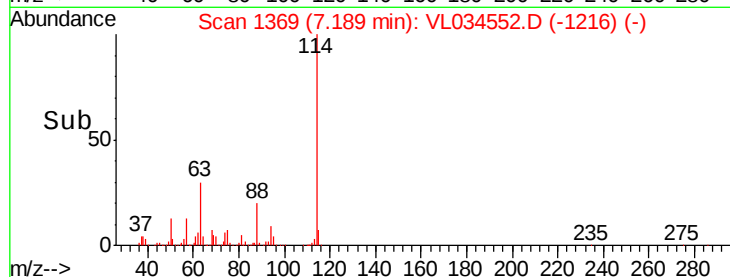
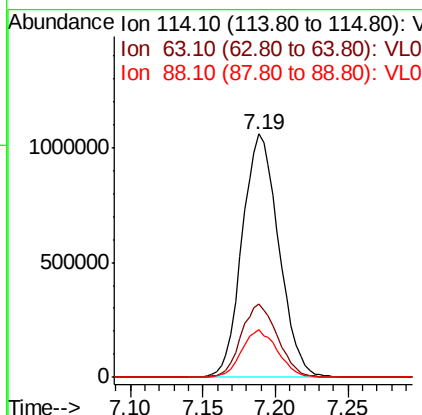
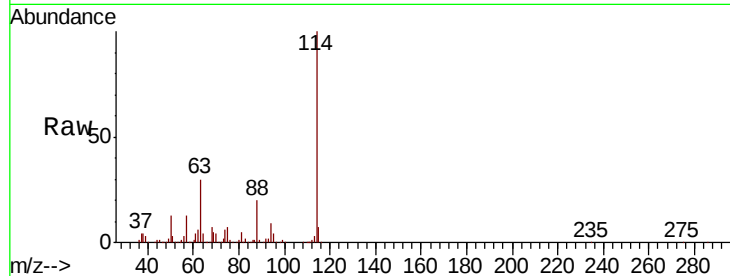
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.19 min Scan# 1369  
 Delta R.T. -0.01 min  
 Lab File: VL034552.D  
 Acq: 2 Jan 2020 18:39

Instrument :  
 MSVOA\_L  
 ClientSampleID :  
 50-1DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 30.0  | 24.1  | 36.1  |
| 88      | 19.3  | 15.7  | 23.5  |

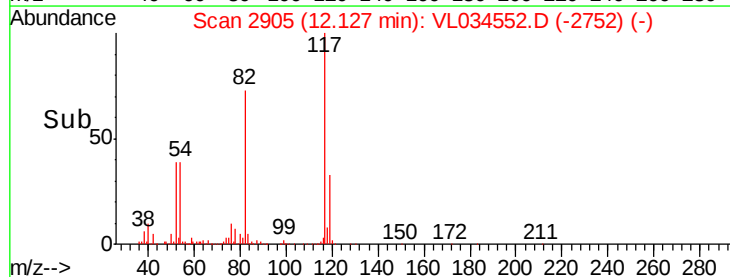
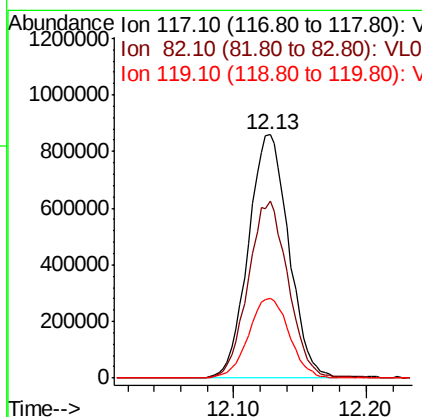
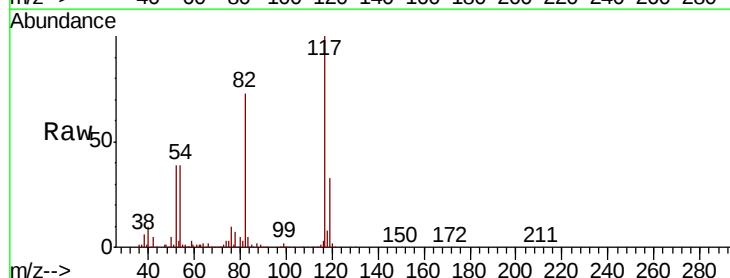
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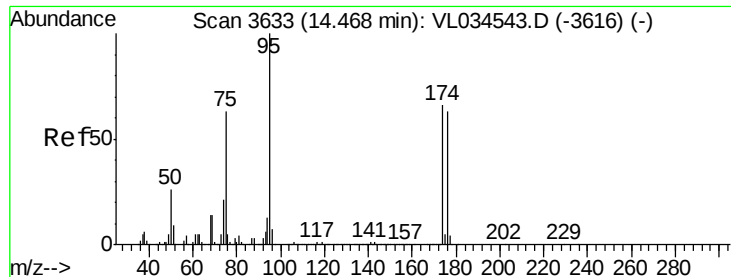
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#55  
 Chlorobenzene-d5  
 Concen: 10.000 ppbv  
 RT: 12.13 min Scan# 2905  
 Delta R.T. -0.01 min  
 Lab File: VL034552.D  
 Acq: 2 Jan 2020 18:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 72.7  | 56.2  | 84.4  |
| 119     | 33.1  | 27.1  | 40.7  |





#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.074 ppbv  
 RT: 14.46 min Scan# 3631  
 Delta R.T. -0.01 min  
 Lab File: VL034552.D  
 Acq: 2 Jan 2020 18:39

Instrument :  
 MSVOA\_L  
 ClientSampleID :  
 50-1DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 63.9  | 52.4  | 78.6  |
| 175     | 4.5   | 3.9   | 5.9   |

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