

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101419\  
 Data File : VL034287.D  
 Acq On : 14 Oct 2019 18:37  
 Operator : SY/AP  
 Sample : K5353-03DL 10X  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA-2DL

Manual Integrations  
 APPROVED

MMDadoda  
 10/16/2019 12:59:30 AM

Quant Time: Oct 15 07:29:00 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091719AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_LWed Sep 18  
 QLast Update : Wed Sep 18 12:53:31 2019  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.69  | 49   | 1061979  | 10.00 | ppbv  | -0.02    |
| 33) 1,4-Difluorobenzene | 7.21  | 114  | 1798098  | 10.00 | ppbv  | -0.02    |
| 55) Chlorobenzene-d5    | 12.15 | 117  | 1756743  | 10.00 | ppbv  | -0.02    |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.49  | 95    | 1554758  | 10.19    | ppbv | -0.02   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 101.90% |

| Target Compounds         | R.T. | QIon | Response | Conc   | Units | Ovalue |
|--------------------------|------|------|----------|--------|-------|--------|
| 3) Chlorodifluoromethane | 2.97 | 51   | 14717m   | 0.118  | ppbv  |        |
| 13) Ethanol              | 3.59 | 45   | 216285   | 14.539 | ppbv  | 95     |
| 15) Acetone              | 3.85 | 43   | 93182    | 0.655  | ppbv  | 94     |

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

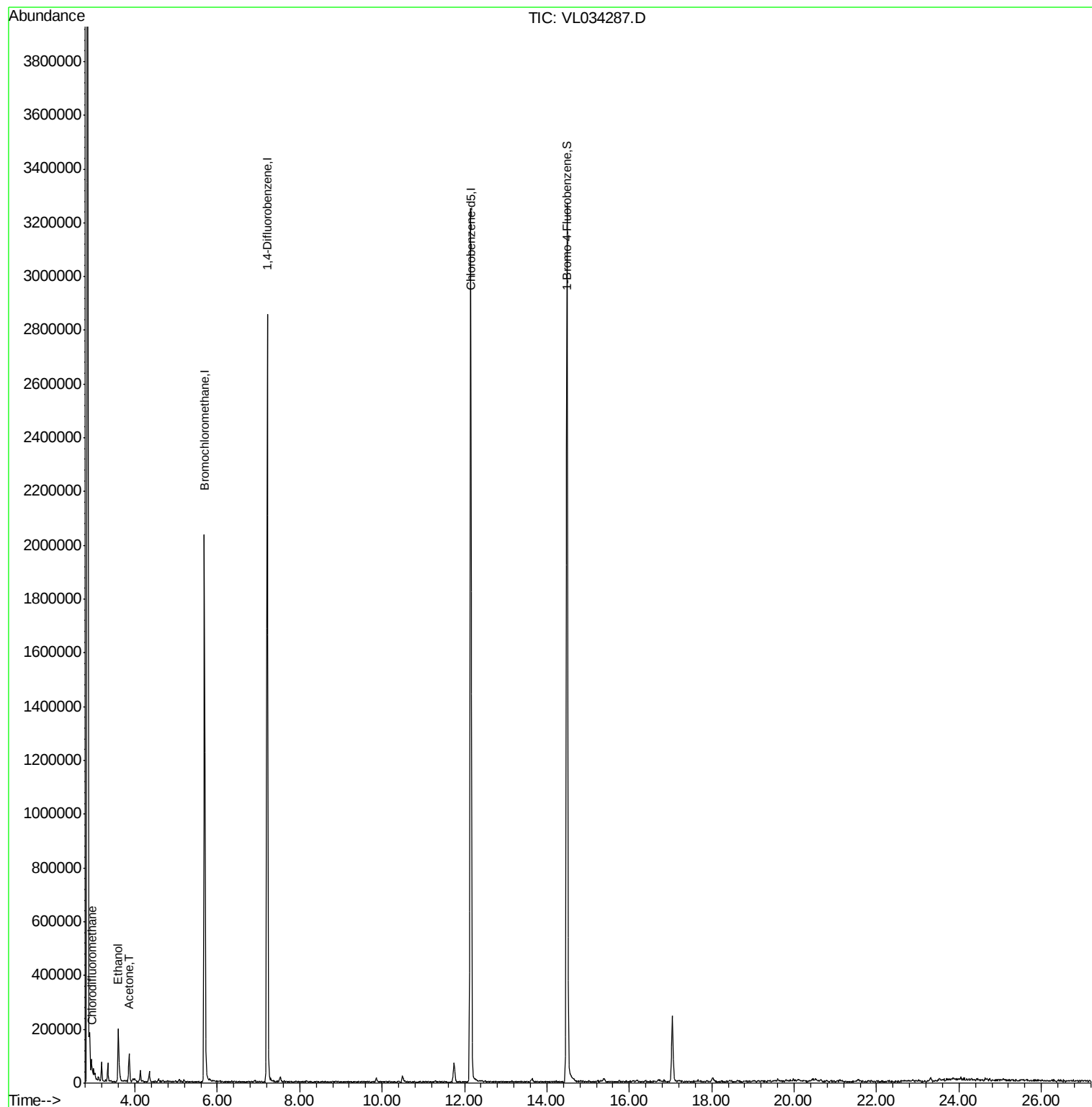
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL101419\  
Data File : VL034287.D  
Acq On : 14 Oct 2019 18:37  
Operator : SY/AP  
Sample : K5353-03DL 10X  
Misc : 400ml/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

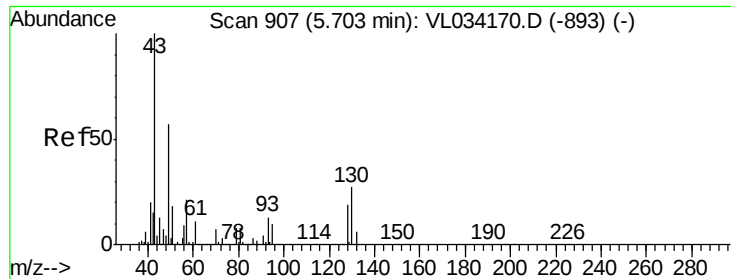
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-2DL

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10/16/2019 12:59:30 AM

Quant Time: Oct 15 07:29:00 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL091719AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Wed Sep  
QLast Update : Wed Sep 18 12:53:31 2019  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 902

Delta R.T. -0.02 min

Lab File: VL034287.D

Acq: 14 Oct 2019 18:37

Instrument :

MSVOA\_L

ClientSampleId :

IA-2DL

Tot Ion: 49 Resp: 1061979

Ion Ratio Lower Upper

49 100

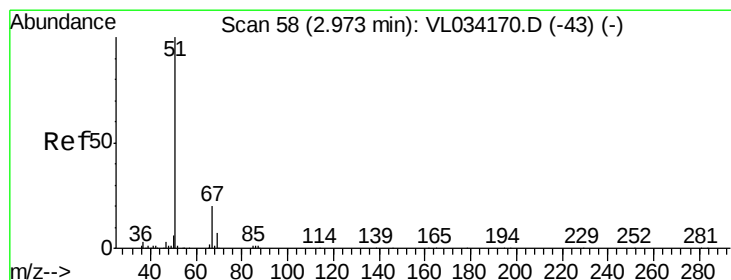
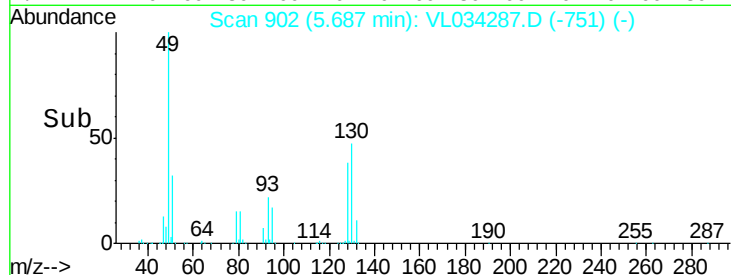
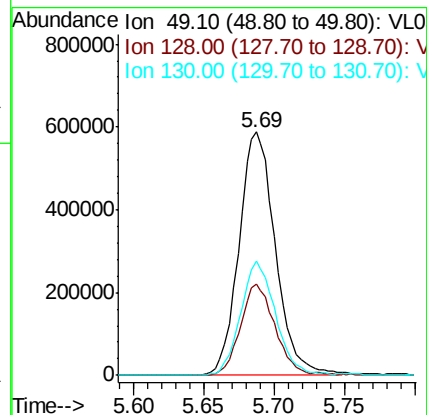
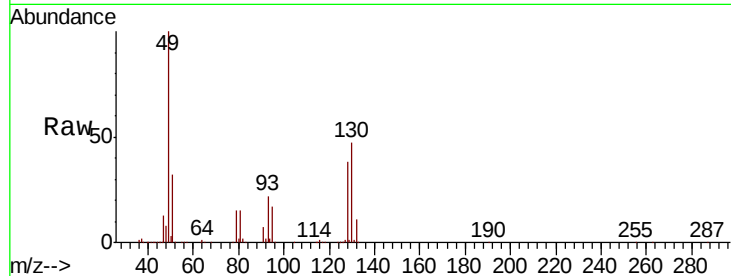
128 36.2 17.6 52.9

130 45.0 22.3 66.9

Manual Integrations  
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#3

Chlorodifluoromethane

Concen: 0.118 ppbv m

RT: 2.97 min Scan# 57

Delta R.T. -0.00 min

Lab File: VL034287.D

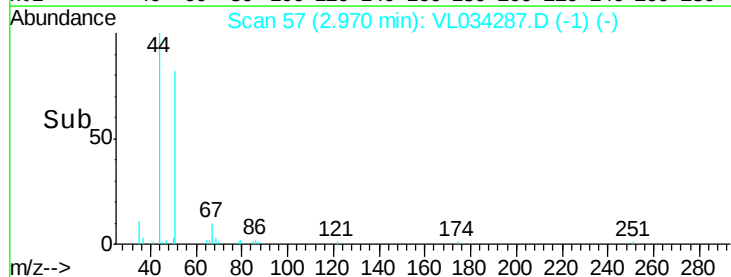
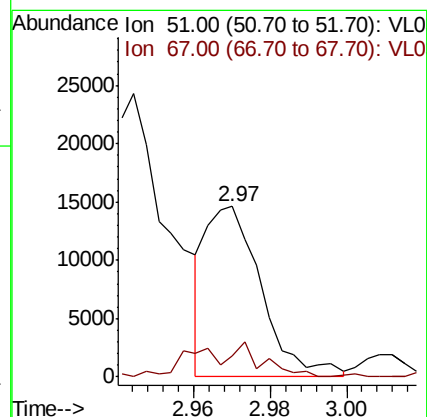
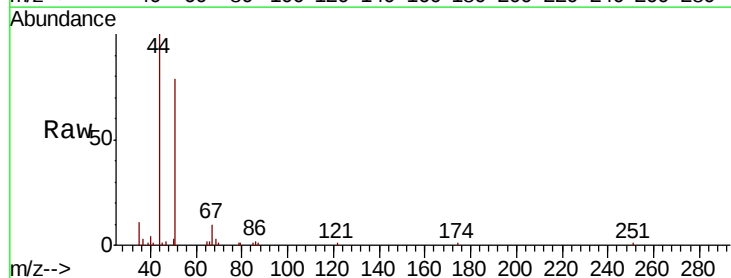
Acq: 14 Oct 2019 18:37

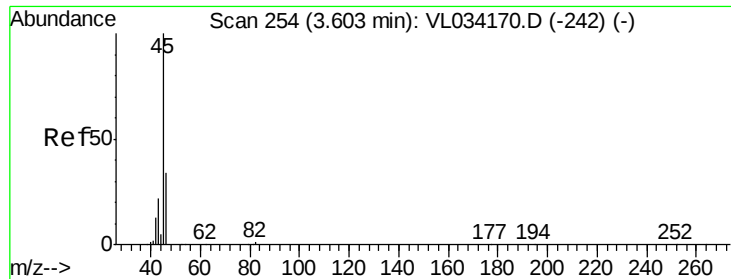
Tgt Ion: 51 Resp: 14717

Ion Ratio Lower Upper

51 100

67 24.1 14.8 22.2#





#13

Ethanol

Concen: 14.539 ppbv

RT: 3.59 min Scan# 250

Delta R.T. -0.01 min

Lab File: VL034287.D

Acq: 14 Oct 2019 18:37

Instrument :

MSVOA\_L

ClientSampled :

IA-2DL

Tot Ion: 45 Resp: 216285

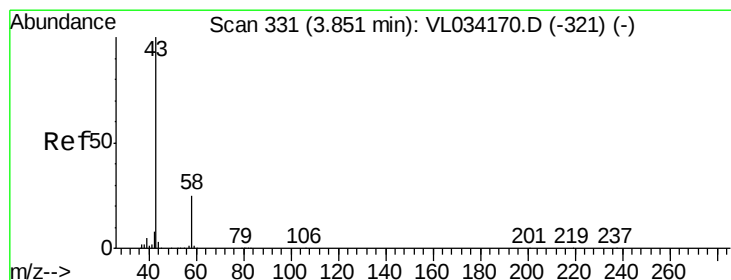
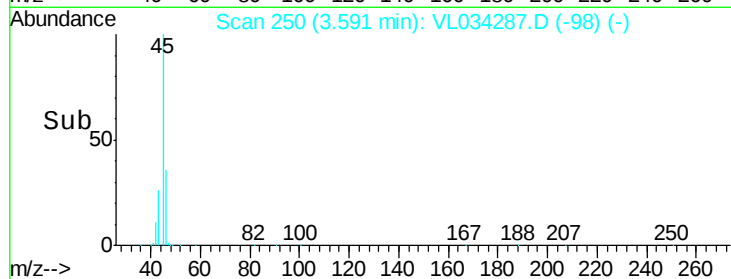
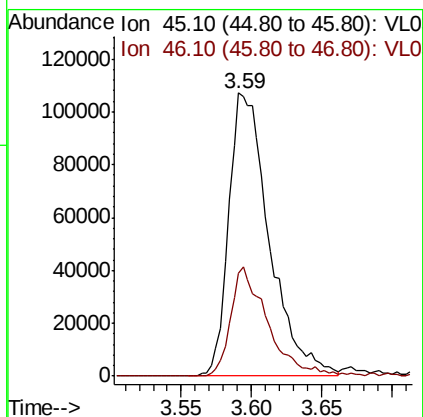
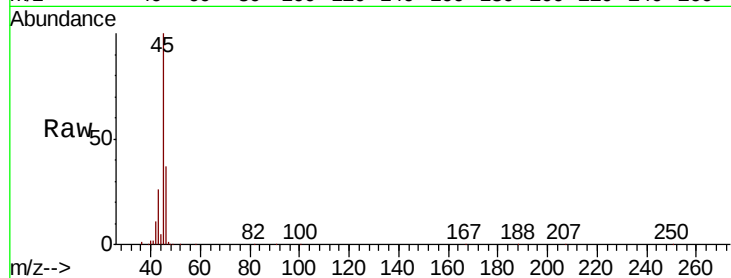
Ion Ratio Lower Upper

45 100

46 36.0 15.5 61.9

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#15

Acetone

Concen: 0.655 ppbv

RT: 3.85 min Scan# 331

Delta R.T. 0.00 min

Lab File: VL034287.D

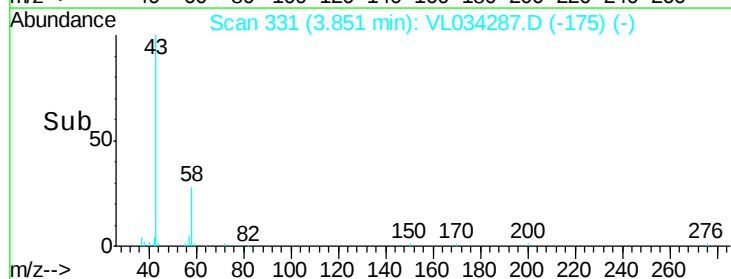
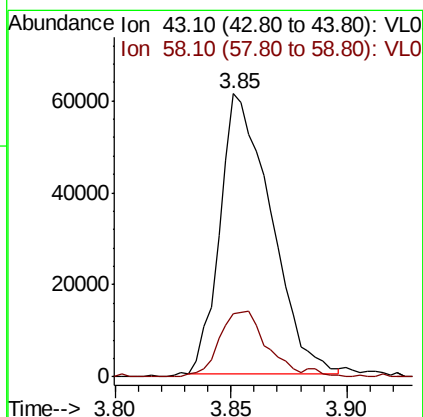
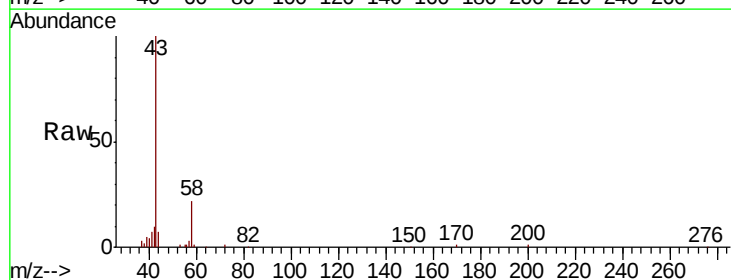
Acq: 14 Oct 2019 18:37

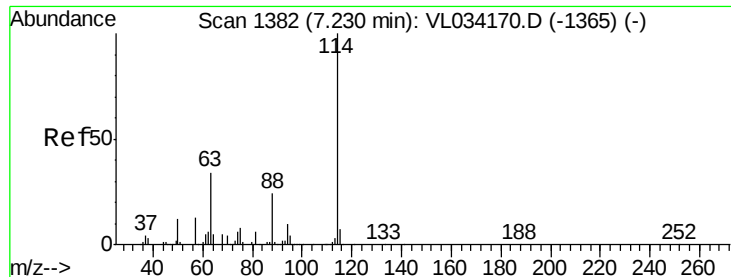
Tgt Ion: 43 Resp: 93182

Ion Ratio Lower Upper

43 100

58 22.5 20.5 30.7





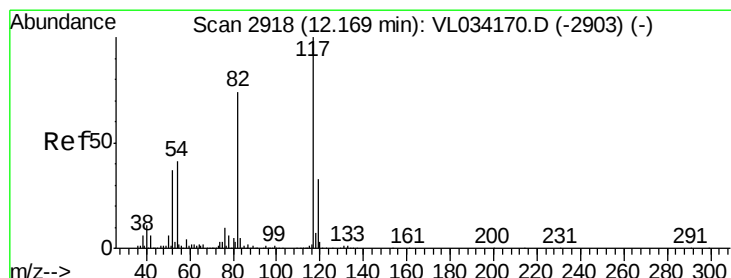
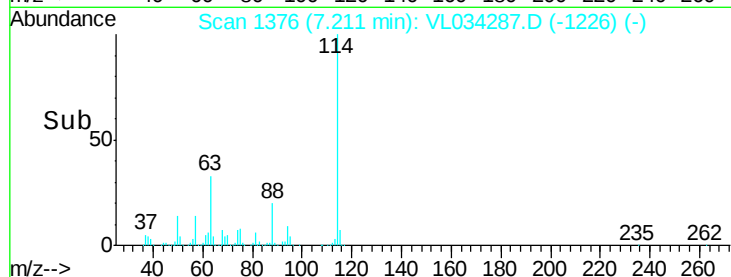
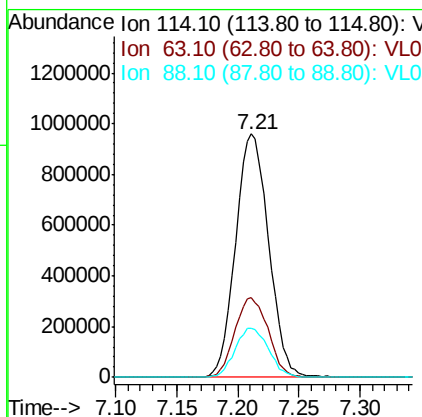
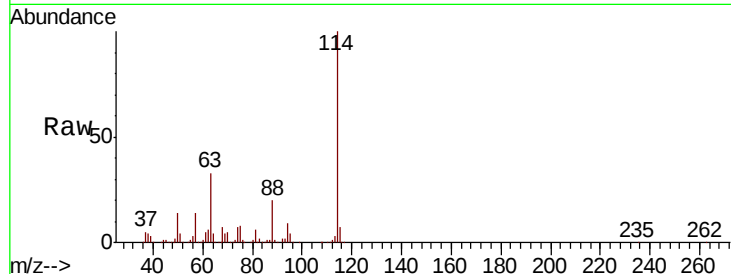
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.21 min Scan# 1376  
 Delta R.T. -0.02 min  
 Lab File: VL034287.D  
 Acq: 14 Oct 2019 18:37

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA-2DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 33.2  | 27.8  | 41.6  |
| 88      | 20.6  | 17.1  | 25.7  |

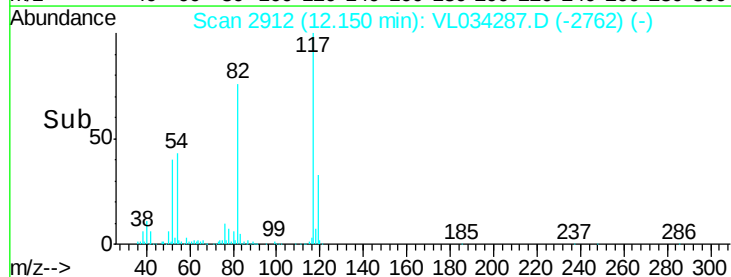
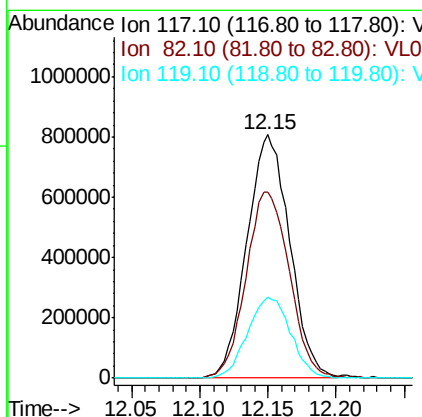
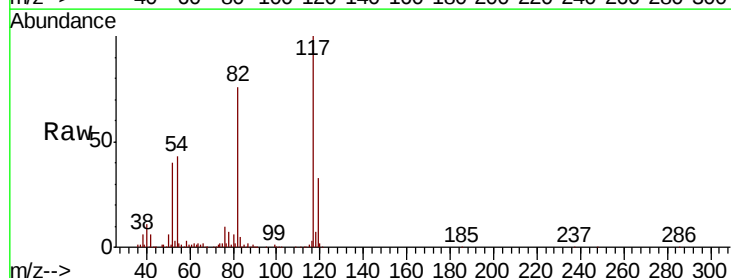
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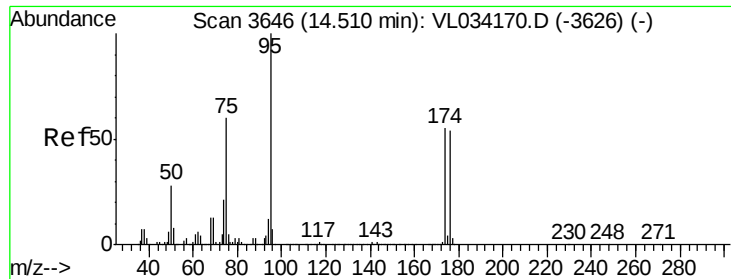
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#55  
 Chlorobenzene-d5  
 Concen: 10.000 ppbv  
 RT: 12.15 min Scan# 2912  
 Delta R.T. -0.02 min  
 Lab File: VL034287.D  
 Acq: 14 Oct 2019 18:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 77.9  | 58.2  | 87.4  |
| 119     | 33.7  | 23.7  | 35.5  |





#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.185 ppbv  
 RT: 14.49 min Scan# 3639  
 Delta R.T. -0.02 min  
 Lab File: VL034287.D  
 Acq: 14 Oct 2019 18:37

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA-2DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 56.3  | 45.1  | 67.7  |
| 175     | 4.1   | 3.3   | 4.9   |

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 10/16/2019 12:59:30 AM

