

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL113018\  
 Data File : VL032857.D  
 Acq On : 30 Nov 2018 20:18  
 Operator : SY/AP  
 Sample : J6132-03DL 40X  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 DSV-02DL

Manual Integrations  
 APPROVED

MMDadoda  
 12/3/2018 4:15:59 PM

Quant Time: Dec 01 03:39:41 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Wed Nov 14 07:00:23 2018  
 QLast Update : Wed Nov 14 07:00:23 2018  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.77  | 49   | 1411127  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.30  | 114  | 3461555  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.25 | 117  | 3245213  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.58  | 95    | 2447716  | 10.08    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 100.80% |

| Target Compounds |      |    |        |            | Ovalue |
|------------------|------|----|--------|------------|--------|
| 9) Propene       | 3.04 | 41 | 73829  | 1.649 ppbv | 90     |
| 13) Ethanol      | 3.68 | 45 | 20209m | 1.378 ppbv |        |
| 15) Acetone      | 3.92 | 43 | 89429  | 0.694 ppbv | 92     |

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

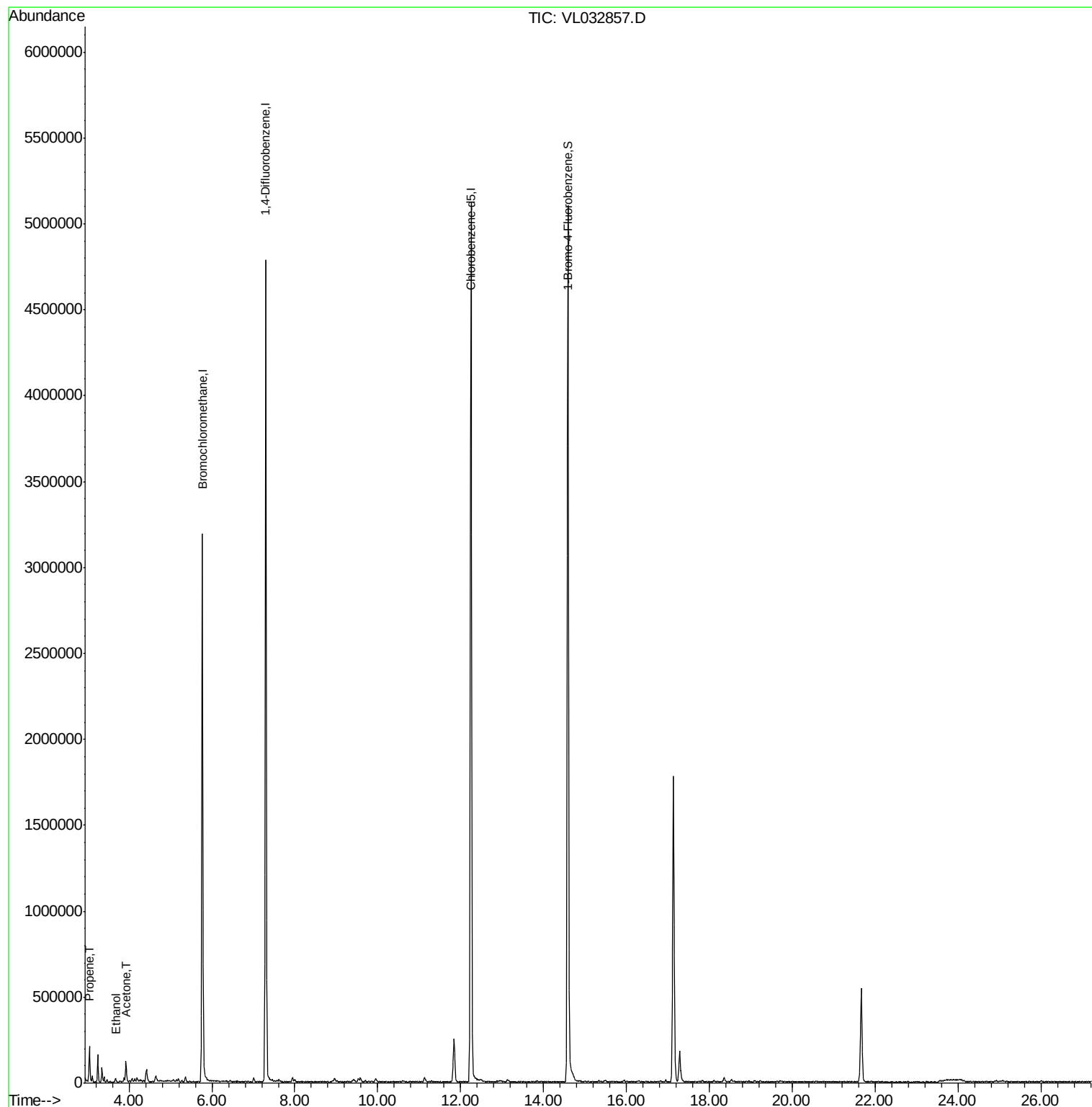
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL113018\  
Data File : VL032857.D  
Acq On : 30 Nov 2018 20:18  
Operator : SY/AP  
Sample : J6132-03DL 40X  
Misc : 400ml/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

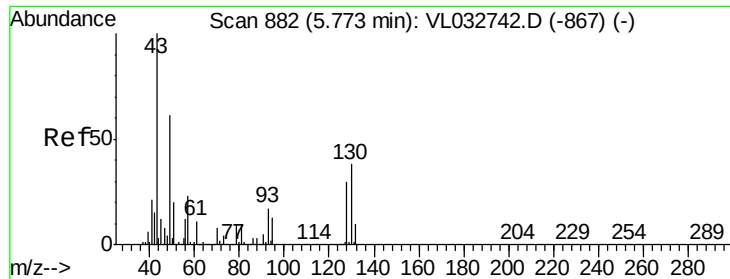
Instrument :  
MSVOA\_L  
ClientSampleId :  
DSV-02DL

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12/3/2018 4:15:59 PM

Quant Time: Dec 01 03:39:41 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Wed Nov  
QLast Update : Wed Nov 14 07:00:23 2018  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. -0.01 min

Lab File: VL032857.D

Acq: 30 Nov 2018 20:18

Instrument :

MSVOA\_L

ClientSampled :

DSV-02DL

Tot Ion: 49 Resp: 1411127

Ion Ratio Lower Upper

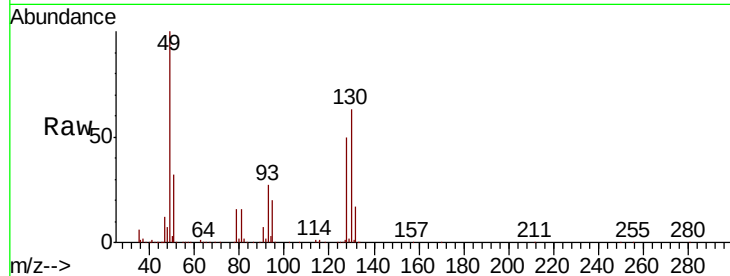
49 100

128 52.5 24.9 74.6

130 68.0 31.4 94.2

Manual Integrations  
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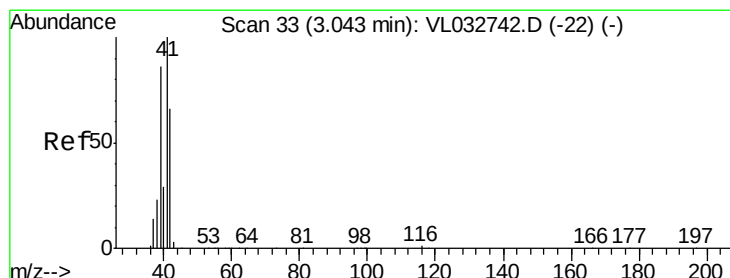
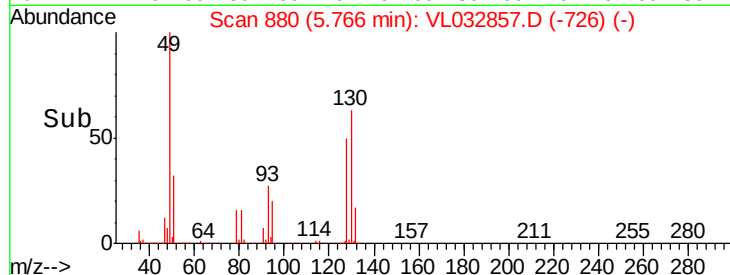
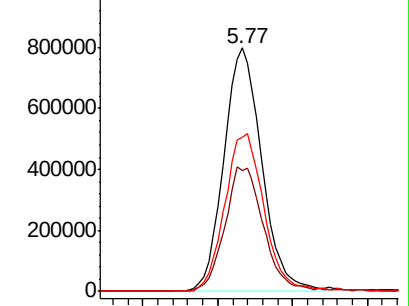
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#9

Propene

Concen: 1.649 ppbv

RT: 3.04 min Scan# 33

Delta R.T. 0.00 min

Lab File: VL032857.D

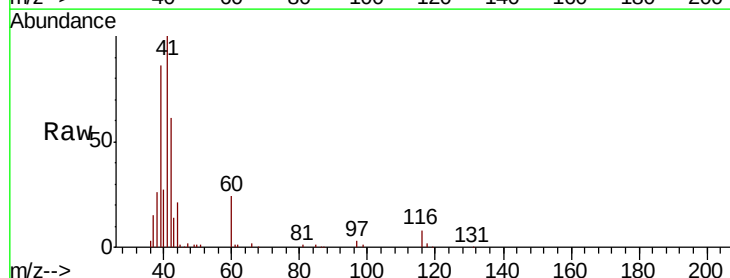
Acq: 30 Nov 2018 20:18

Tgt Ion: 41 Resp: 73829

Ion Ratio Lower Upper

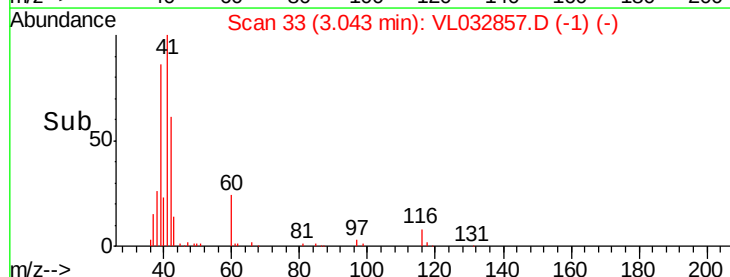
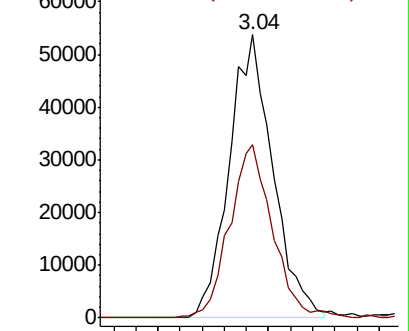
41 100

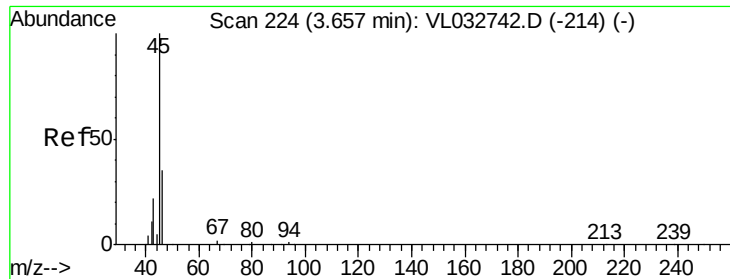
42 60.5 55.0 82.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





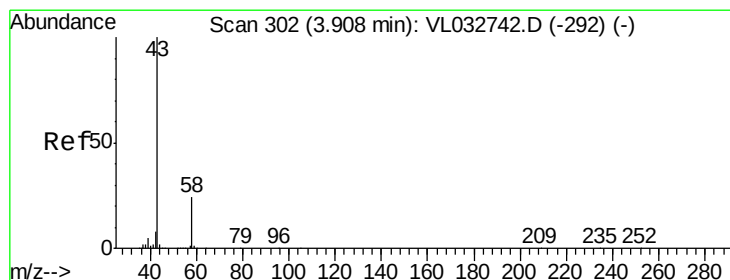
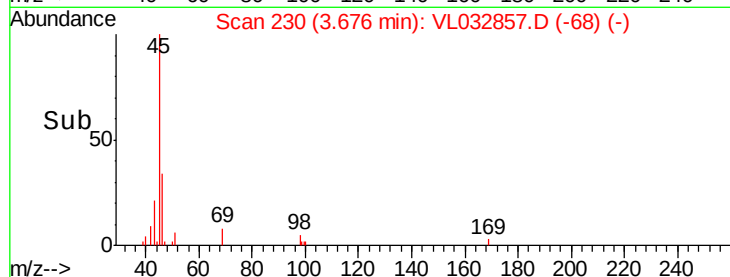
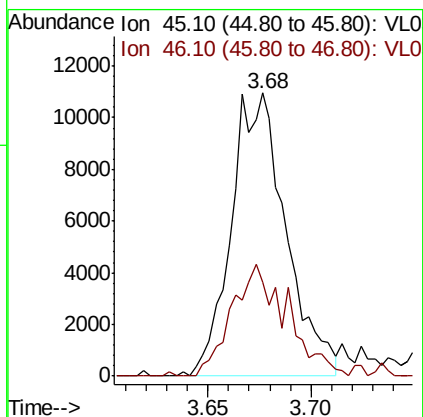
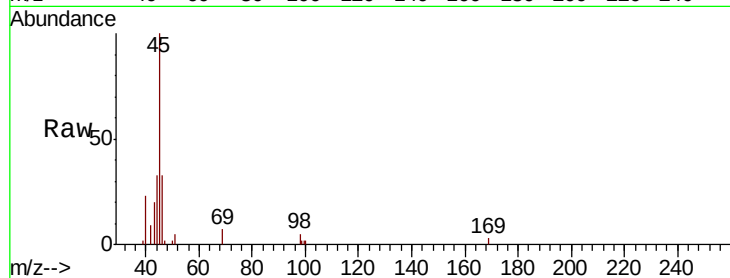
#13  
Ethanol  
Concen: 1.378 ppbv m  
RT: 3.68 min Scan# 230  
Delta R.T. 0.02 min  
Lab File: VL032857.D  
Acq: 30 Nov 2018 20:18

Instrument :  
MSVOA\_L  
ClientSampleId :  
DSV-02DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 45      | 100   |       |       |
| 46      | 0.0   | 14.5  | 57.9# |

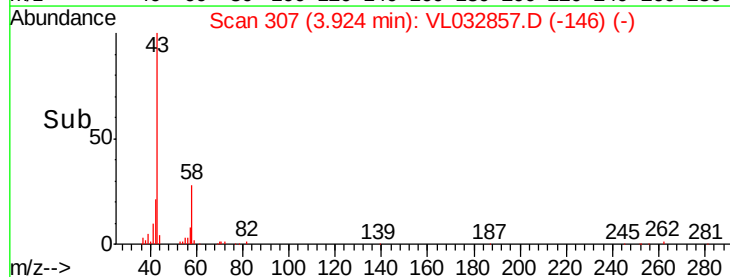
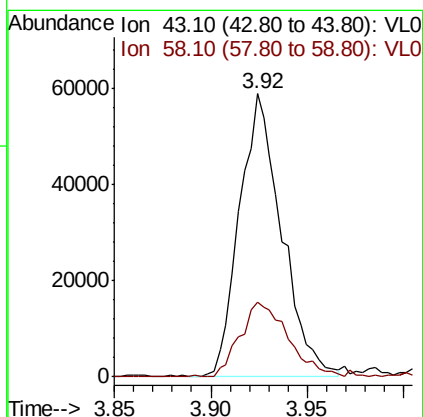
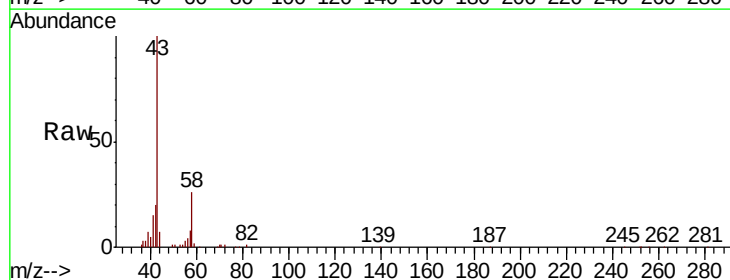
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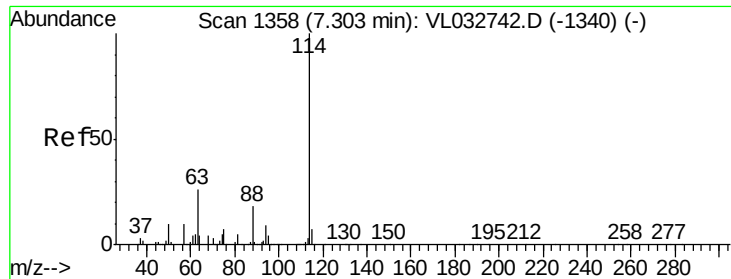
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#15  
Acetone  
Concen: 0.694 ppbv  
RT: 3.92 min Scan# 307  
Delta R.T. 0.02 min  
Lab File: VL032857.D  
Acq: 30 Nov 2018 20:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 30.5  | 21.1  | 31.7  |





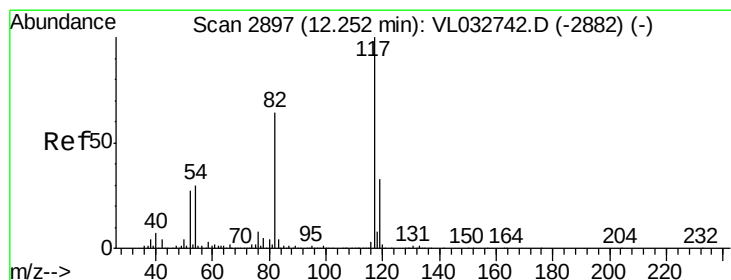
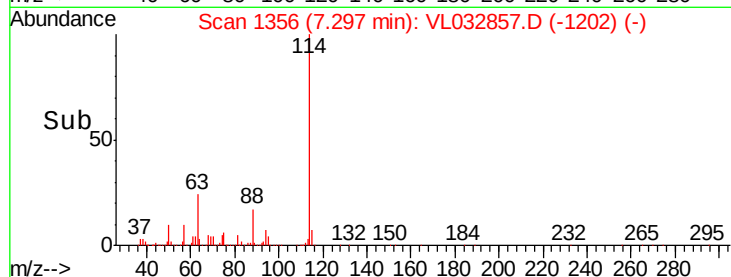
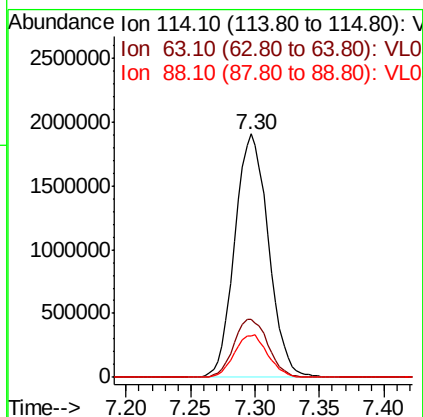
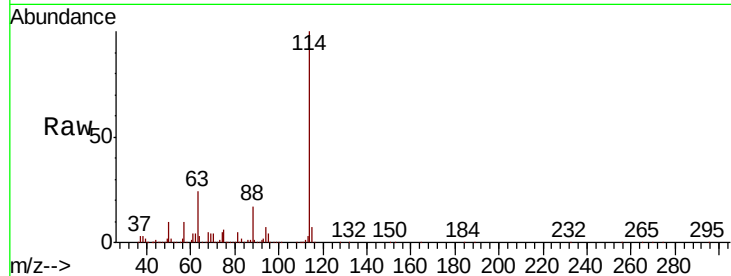
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.30 min Scan# 1356  
 Delta R.T. -0.01 min  
 Lab File: VL032857.D  
 Acq: 30 Nov 2018 20:18

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 DSV-02DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 24.4  | 20.9  | 31.3  |
| 88      | 17.4  | 14.4  | 21.6  |

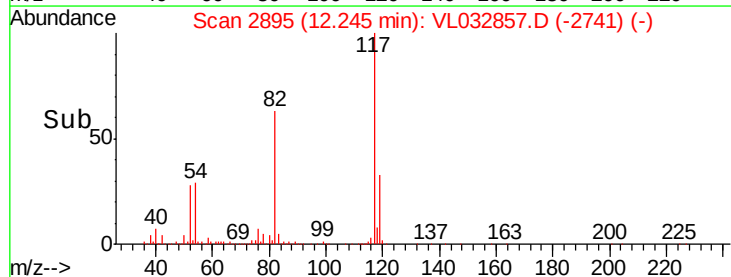
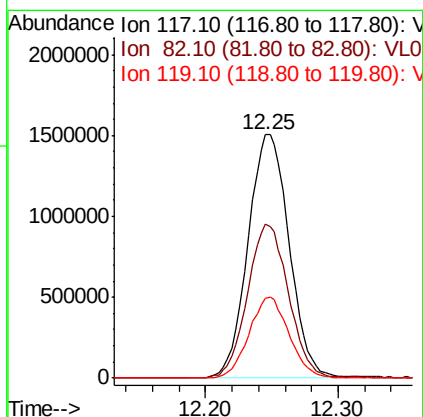
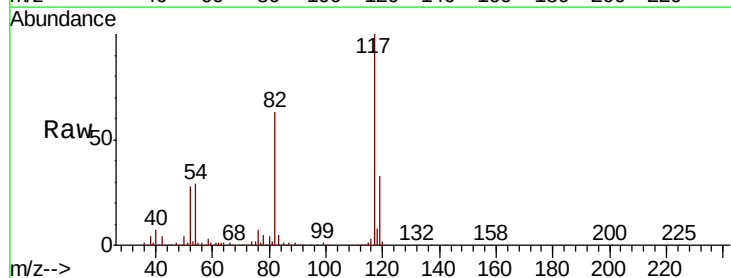
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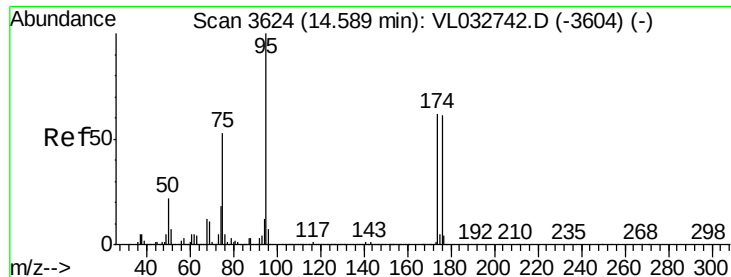
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#55  
 Chlorobenzene-d5  
 Concen: 10.000 ppbv  
 RT: 12.25 min Scan# 2895  
 Delta R.T. -0.01 min  
 Lab File: VL032857.D  
 Acq: 30 Nov 2018 20:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 63.6  | 51.0  | 76.6  |
| 119     | 32.4  | 28.0  | 42.0  |





#68

1-Bromo-4-Fluorobenzene

Concen: 10.084 ppbv

RT: 14.58 min Scan# 3622

Delta R.T. -0.01 min

Lab File: VL032857.D

Acq: 30 Nov 2018 20:18

Instrument :

MSVOA\_L

ClientSampleId :

DSV-02DL

Tot Ion: 95 Resp: 2447716

Ion Ratio Lower Upper

95 100

174 66.1 50.7 76.1

175 4.8 3.8 5.6

Manual Integrations

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