

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL100318\  
 Data File : VL032588.D  
 Acq On : 3 Oct 2018 20:41  
 Operator : SY/AP  
 Sample : J5094-08DL2 200X  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 FSS-1DL2

Manual Integrations  
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Quant Time: Oct 04 18:38:29 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092418AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Oct 0  
 QLast Update : Mon Oct 01 06:49:26 2018  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.79  | 49   | 1016355  | 10.00 | ppbv  | -0.02    |
| 33) 1,4-Difluorobenzene | 7.32  | 114  | 2638045  | 10.00 | ppbv  | -0.03    |
| 55) Chlorobenzene-d5    | 12.27 | 117  | 2860920  | 10.00 | ppbv  | -0.03    |

System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.61  | 95    | 2025904  | 9.39     | ppbv | -0.03  |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 93.90% |

| Target Compounds         | R.T. | QIon | Response | Conc   | Units  | Ovalue |
|--------------------------|------|------|----------|--------|--------|--------|
| 3) Chlorodifluoromethane | 3.03 | 51   | 1888038  | 22.338 | ppbv   | 95     |
| 9) Propene               | 3.07 | 41   | 49895    | 1.361  | ppbv # | 72     |
| 13) Ethanol              | 3.68 | 45   | 17288m   | 1.568  | ppbv   |        |
| 15) Acetone              | 3.92 | 43   | 1132567  | 12.695 | ppbv   | 99     |
| 19) Isopropyl Alcohol    | 4.06 | 45   | 52722    | 0.848  | ppbv # | 93     |

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

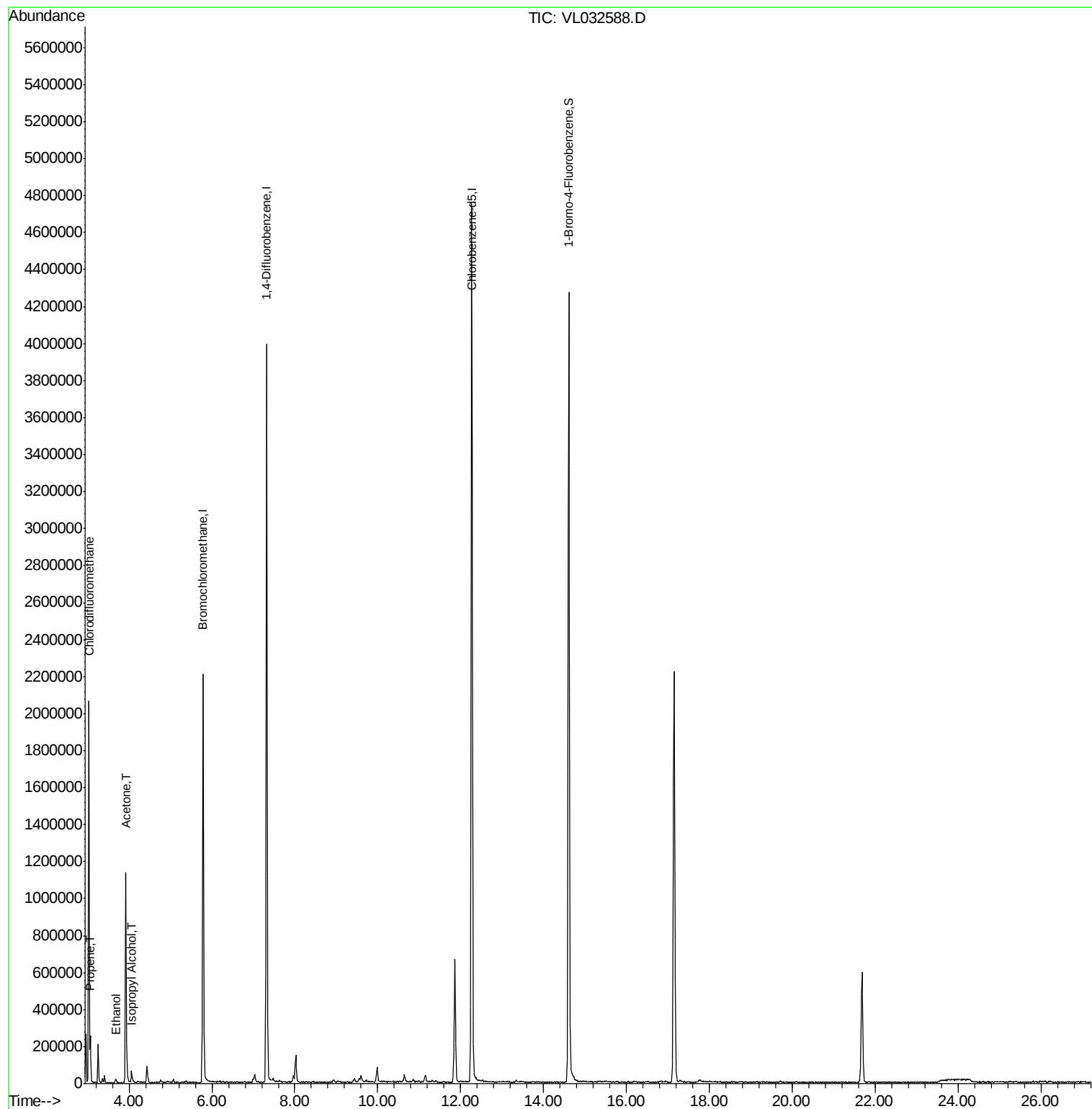
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL100318\  
Data File : VL032588.D  
Acq On : 3 Oct 2018 20:41  
Operator : SY/AP  
Sample : J5094-08DL2 200X  
Misc : 400ml/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

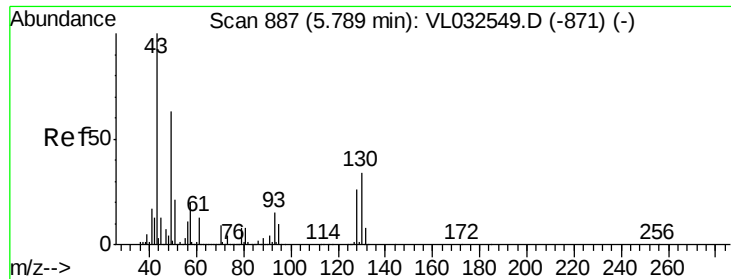
Instrument :  
MSVOA\_L  
ClientSampleId :  
FSS-1DL2

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Quant Time: Oct 04 18:38:29 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL092418AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Oct  
QLast Update : Mon Oct 01 06:49:26 2018  
Response via : Initial Calibration





#1

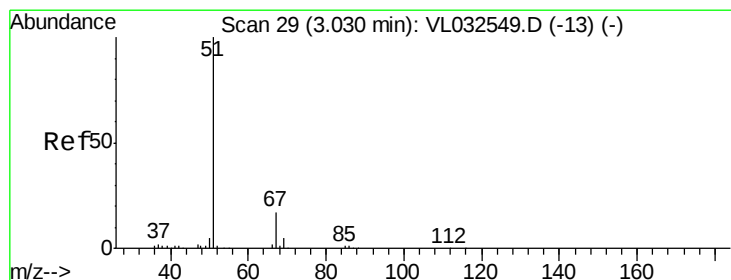
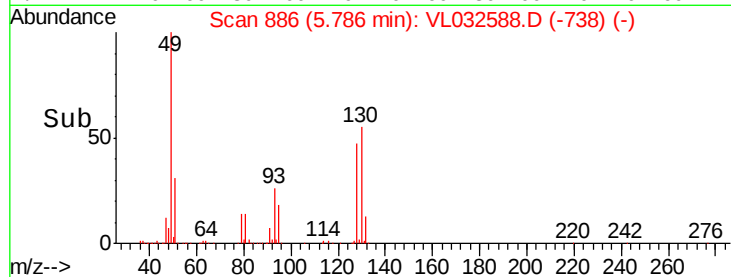
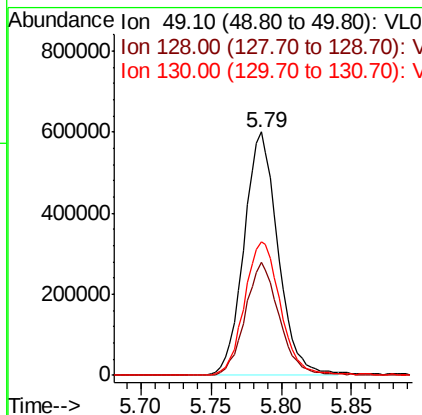
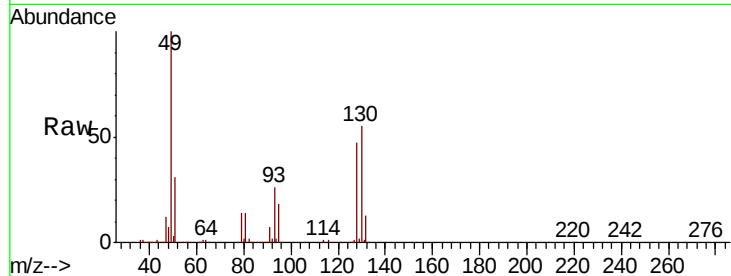
Bromochloromethane  
 Concen: 10.000 ppbv  
 RT: 5.79 min Scan# 886  
 Delta R.T. -0.02 min  
 Lab File: VL032588.D  
 Acq: 3 Oct 2018 20:41

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 FSS-1DL2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 49      | 100   |       |       |
| 128     | 47.1  | 20.7  | 62.1  |
| 130     | 58.7  | 26.6  | 79.7  |

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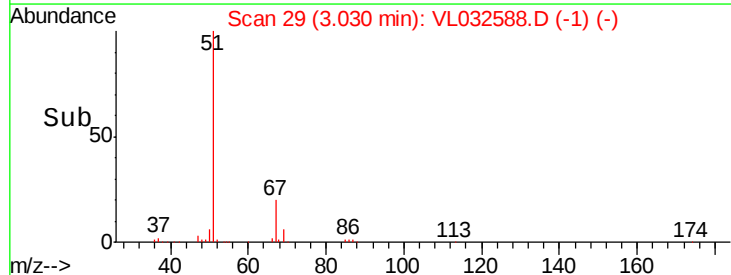
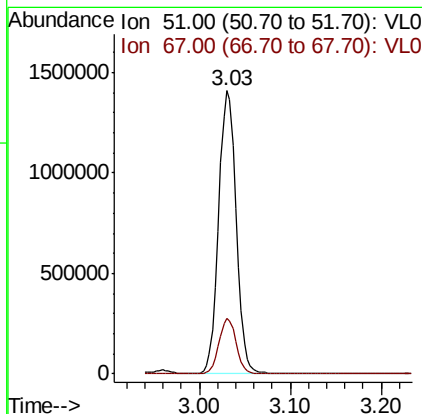
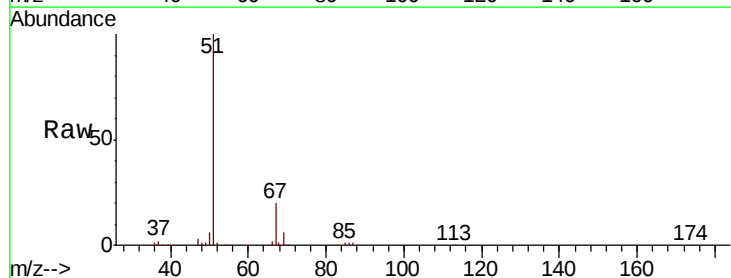
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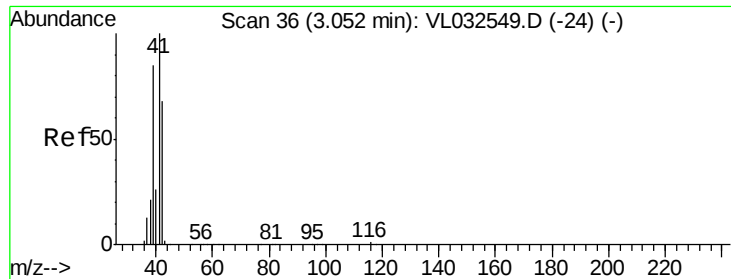


#3

Chlorodifluoromethane  
 Concen: 22.338 ppbv  
 RT: 3.03 min Scan# 29  
 Delta R.T. -0.01 min  
 Lab File: VL032588.D  
 Acq: 3 Oct 2018 20:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 51      | 100   |       |       |
| 67      | 19.3  | 13.8  | 20.8  |





#9

Propene

Concen: 1.361 ppbv

RT: 3.07 min Scan# 40

Delta R.T. -0.00 min

Lab File: VL032588.D

Acq: 3 Oct 2018 20:41

Instrument :

MSVOA\_L

ClientSampleID :

FSS-1DL2

Tot Ion: 41 Resp: 49895

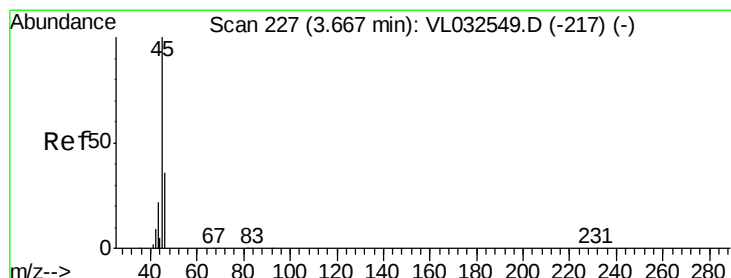
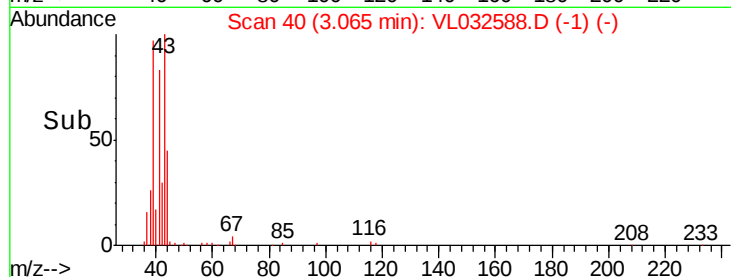
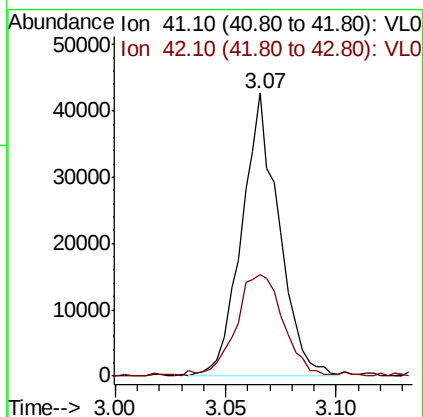
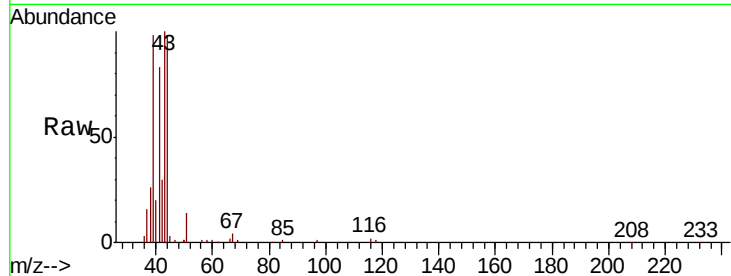
Ion Ratio Lower Upper

41 100

42 47.3 56.6 84.8#

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#13

Ethanol

Concen: 1.568 ppbv m

RT: 3.68 min Scan# 230

Delta R.T. -0.01 min

Lab File: VL032588.D

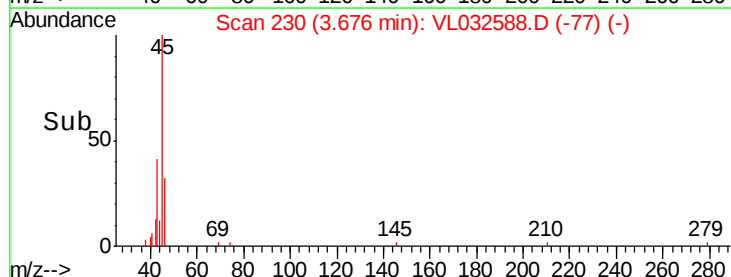
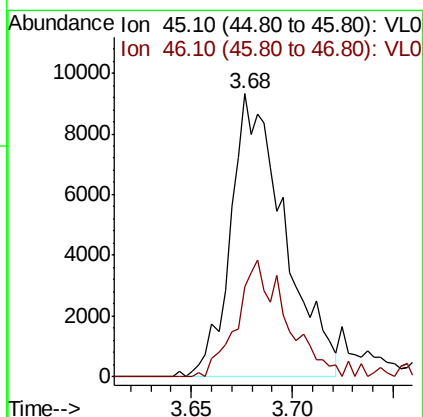
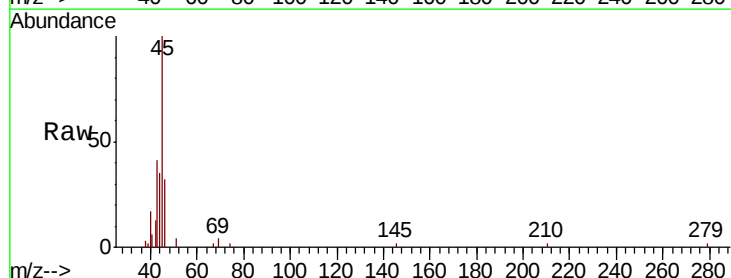
Acq: 3 Oct 2018 20:41

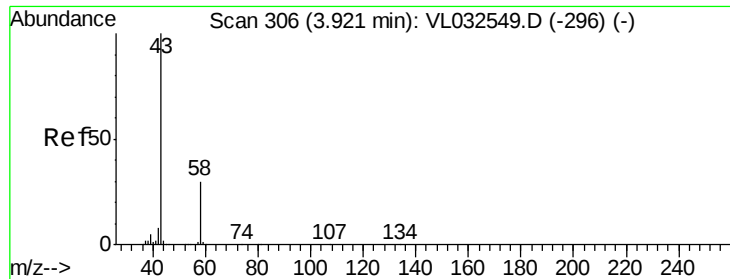
Tgt Ion: 45 Resp: 17288

Ion Ratio Lower Upper

45 100

46 0.0 14.2 56.8#





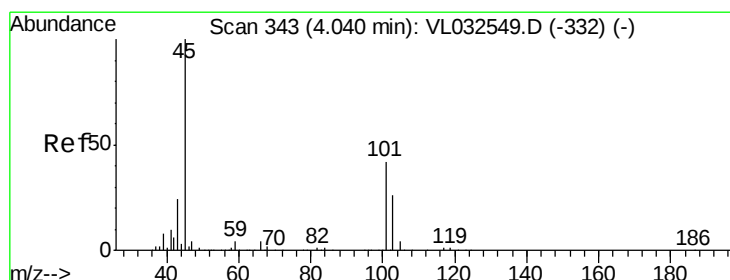
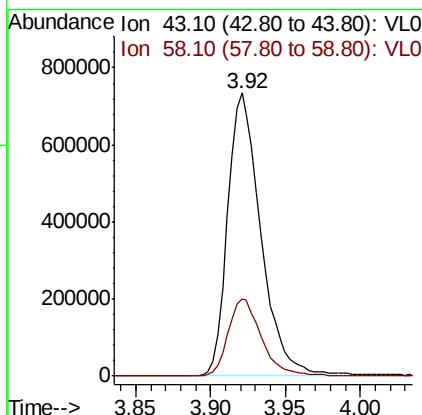
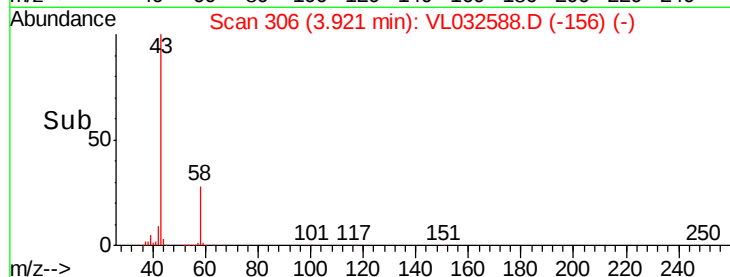
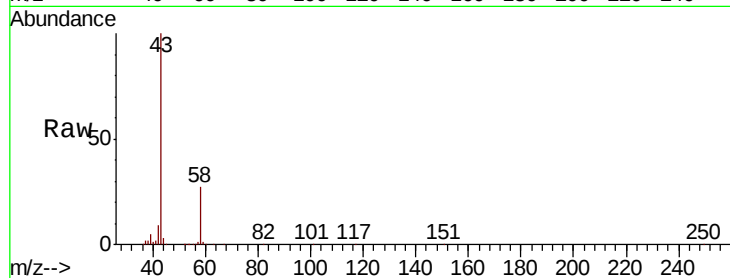
#15  
Acetone  
Concen: 12.695 ppbv  
RT: 3.92 min Scan# 306  
Delta R.T. -0.02 min  
Lab File: VL032588.D  
Acq: 3 Oct 2018 20:41

Instrument :  
MSVOA\_L  
ClientSampleId :  
FSS-1DL2

Tot Ion: 43 Resp: 1132567  
Ion Ratio Lower Upper  
43 100  
58 27.8 22.6 33.8

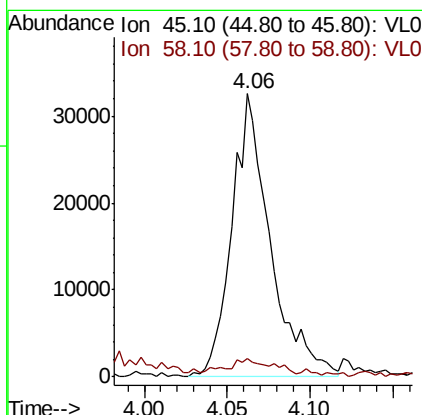
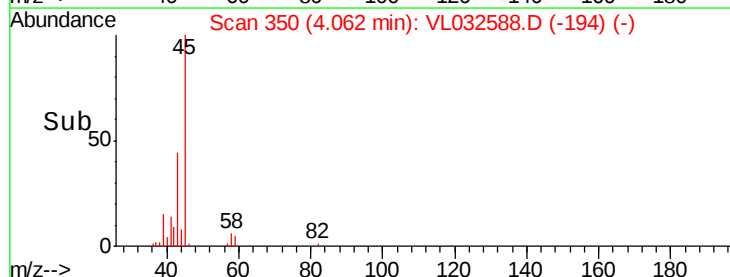
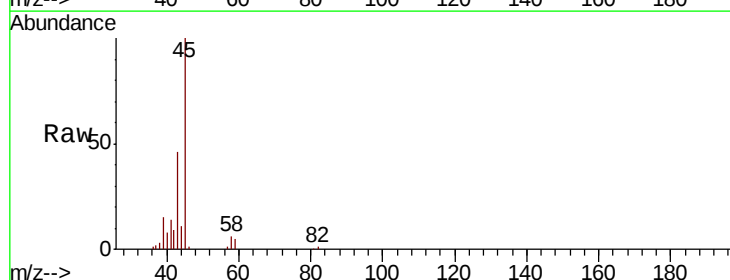
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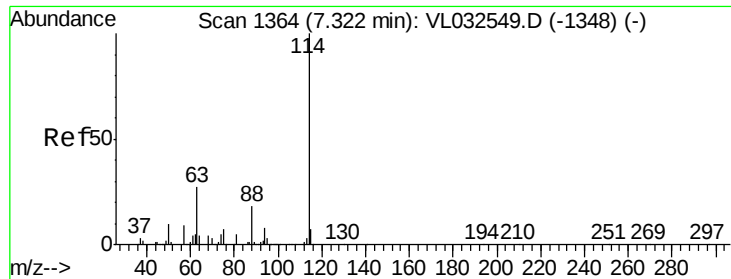
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#19  
Isopropyl Alcohol  
Concen: 0.848 ppbv  
RT: 4.06 min Scan# 350  
Delta R.T. 0.00 min  
Lab File: VL032588.D  
Acq: 3 Oct 2018 20:41

Tgt Ion: 45 Resp: 52722  
Ion Ratio Lower Upper  
45 100  
58 0.0 2.0 3.0#





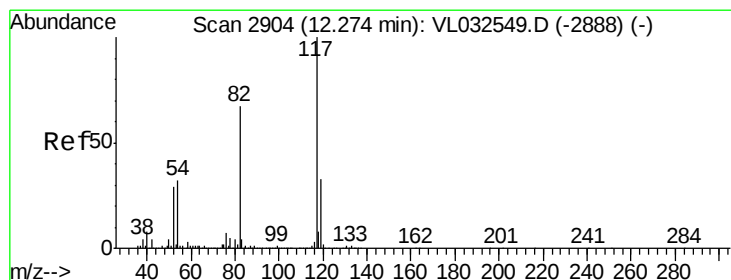
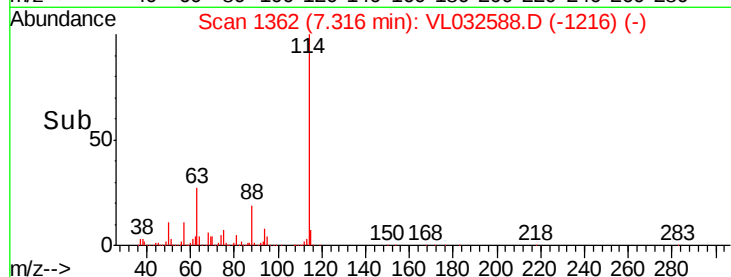
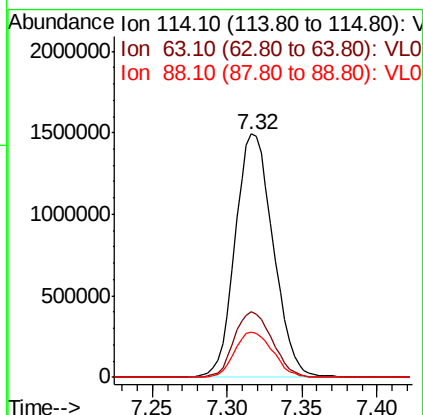
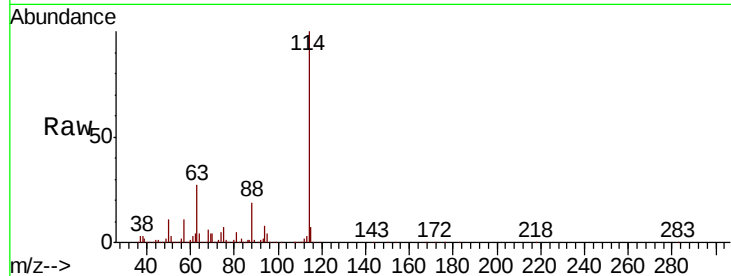
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.32 min Scan# 1362  
 Delta R.T. -0.03 min  
 Lab File: VL032588.D  
 Acq: 3 Oct 2018 20:41

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 FSS-1DL2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 27.2  | 22.2  | 33.4  |
| 88      | 18.6  | 15.0  | 22.4  |

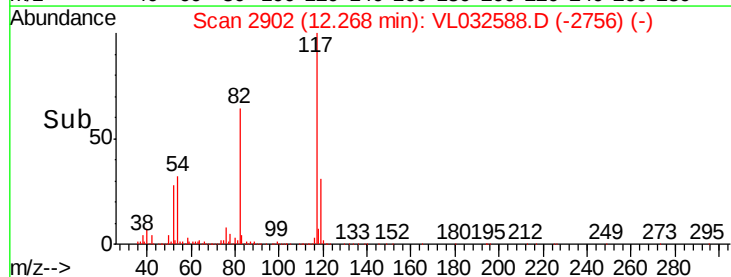
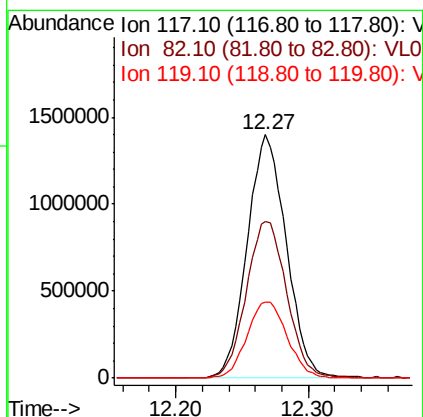
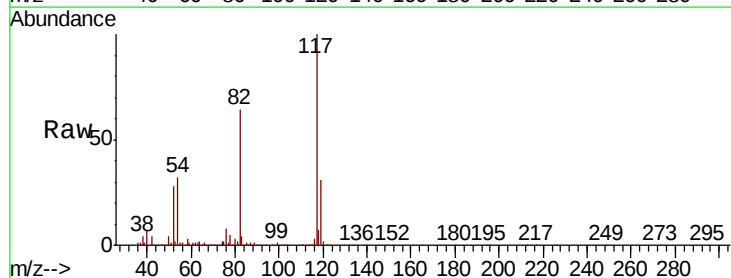
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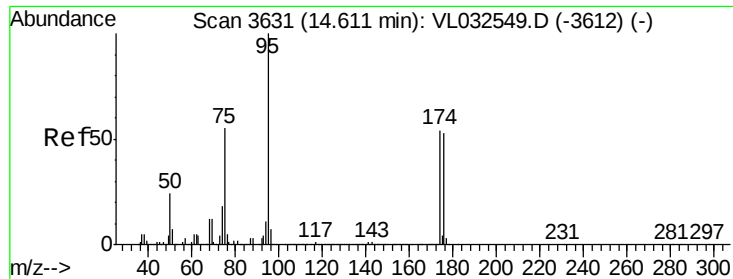
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#55  
 Chlorobenzene-d5  
 Concen: 10.000 ppbv  
 RT: 12.27 min Scan# 2902  
 Delta R.T. -0.03 min  
 Lab File: VL032588.D  
 Acq: 3 Oct 2018 20:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 67.3  | 53.0  | 79.6  |
| 119     | 32.7  | 45.9  | 68.9# |





#68

1-Bromo-4-Fluorobenzene

Concen: 9.390 ppbv

RT: 14.61 min Scan# 3629

Delta R.T. -0.03 min

Lab File: VL032588.D

Acq: 3 Oct 2018 20:41

Instrument :

MSVOA\_L

ClientSampleId :

FSS-1DL2

Tot Ion: 95 Resp: 2025904

Ion Ratio Lower Upper

95 100

174 58.0 46.3 69.5

175 3.9 3.4 5.0

Manual Integrations  
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