

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120418\  
 Data File : VL032895.D  
 Acq On : 5 Dec 2018 3:16  
 Operator : SY/AP  
 Sample : J6176-03DL 10X  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 MMSV-08DL

Quant Time: Dec 05 15:56:16 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   | 5.76  | 49   | 1478967  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.29  | 114  | 3604533  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.25 | 117  | 3656276  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.58  | 95    | 2654277  | 9.71     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 97.10% |

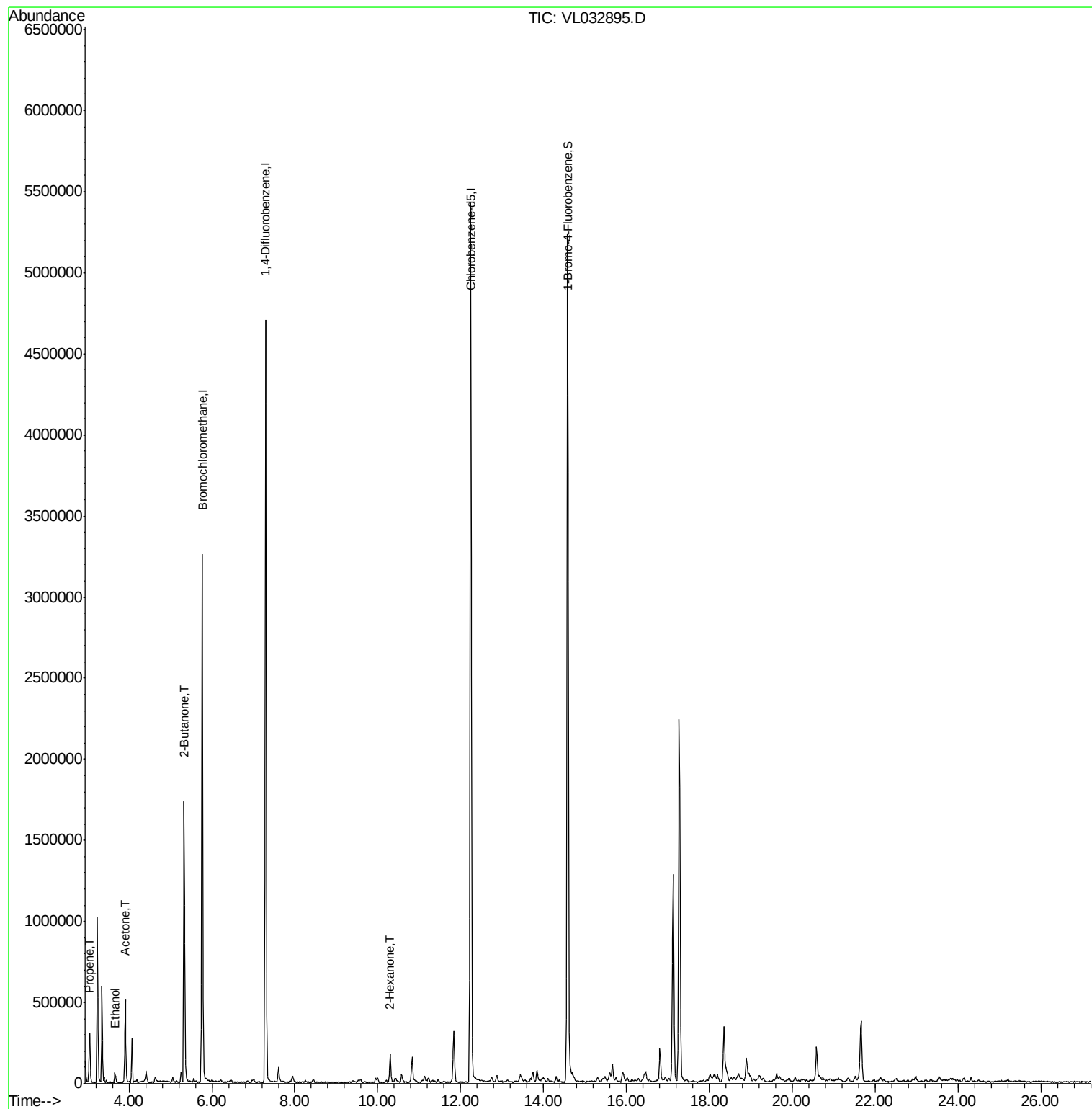
| Target Compounds |       |    |         |        | Ovalue    |
|------------------|-------|----|---------|--------|-----------|
| 9) Propene       | 3.04  | 41 | 90773   | 1.935  | ppbv 99   |
| 13) Ethanol      | 3.66  | 45 | 68067   | 4.429  | ppbv 98   |
| 15) Acetone      | 3.90  | 43 | 467694  | 3.463  | ppbv # 75 |
| 34) 2-Butanone   | 5.33  | 43 | 2047154 | 10.950 | ppbv 99   |
| 51) 2-Hexanone   | 10.30 | 43 | 137444  | 0.731  | ppbv # 95 |

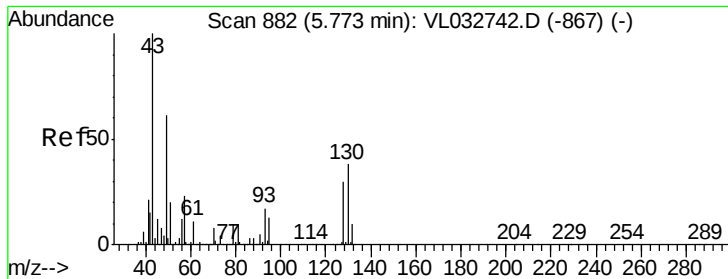
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL120418\  
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QLast Update : Wed Nov 14 07:00:23 2018  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. -0.01 min

Lab File: VL032895.D

Acq: 5 Dec 2018 3:16

Instrument :

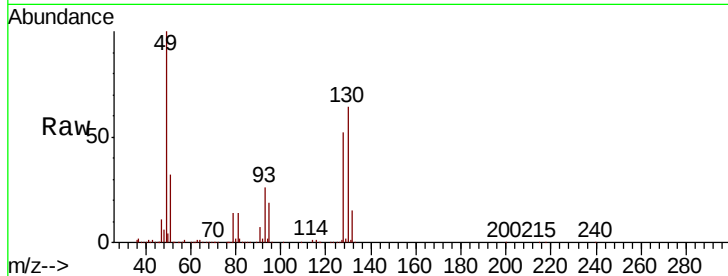
MSVOA\_L

ClientSampleId :

MMSV-08DL

Tot Ion: 49 Resp: 1478967

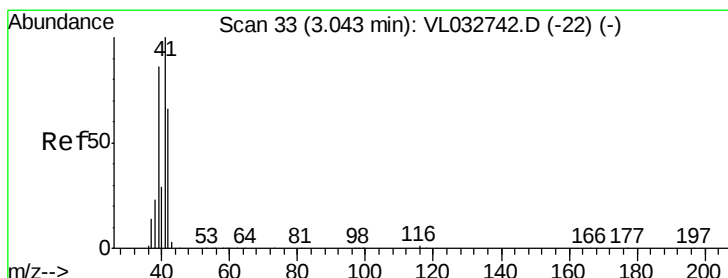
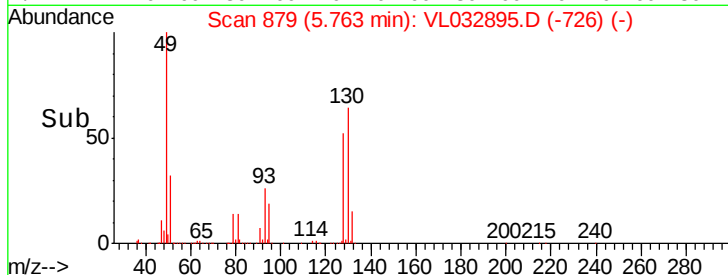
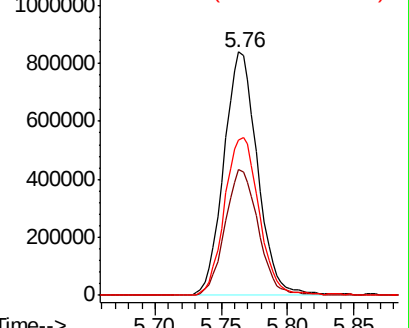
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 49  | 100   |       |       |
| 128 | 51.9  | 24.9  | 74.6  |
| 130 | 67.3  | 31.4  | 94.2  |



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: 1.935 ppbv

RT: 3.04 min Scan# 32

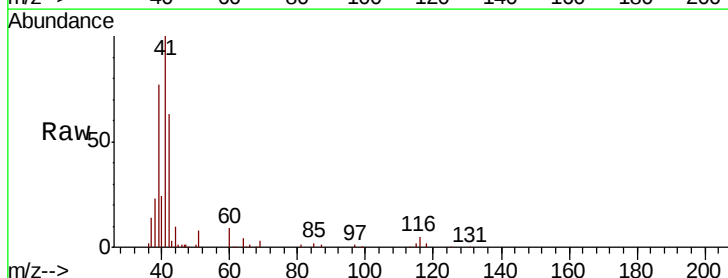
Delta R.T. -0.00 min

Lab File: VL032895.D

Acq: 5 Dec 2018 3:16

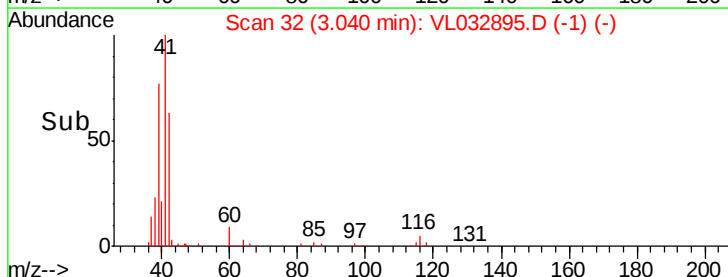
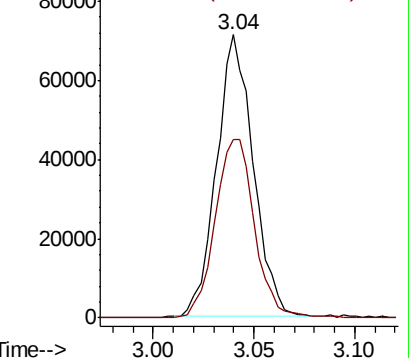
Tgt Ion: 41 Resp: 90773

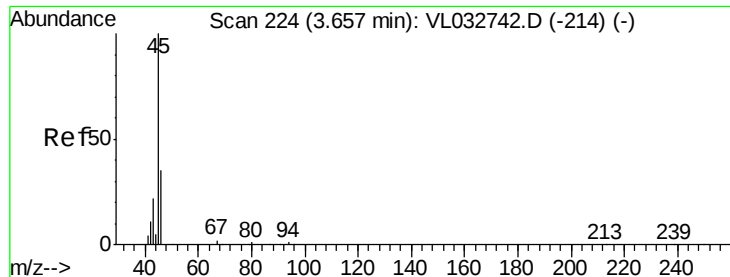
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 41  | 100   |       |       |
| 42  | 68.3  | 55.0  | 82.6  |



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#13

Ethanol

Concen: 4.429 ppbv

RT: 3.66 min Scan# 225

Delta R.T. 0.00 min

Lab File: VL032895.D

Acq: 5 Dec 2018 3:16

Instrument :

MSVOA\_L

ClientSampleId :

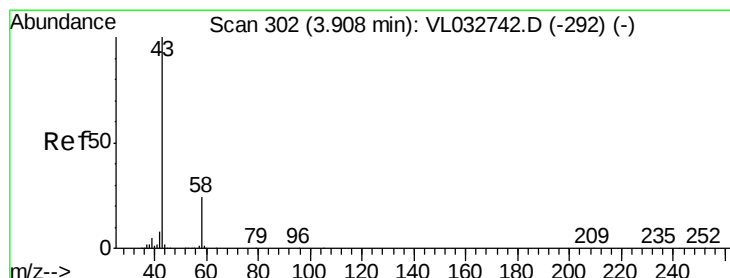
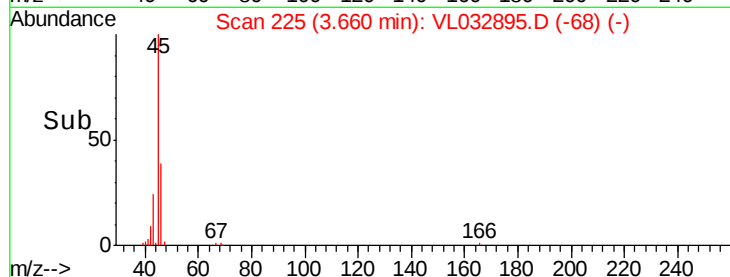
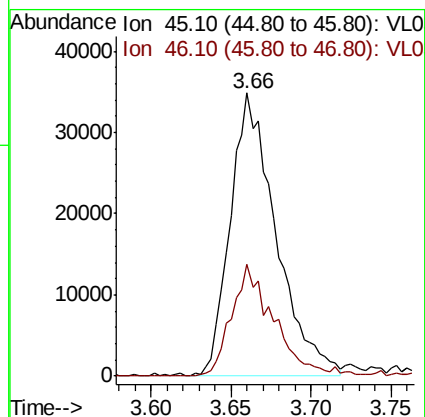
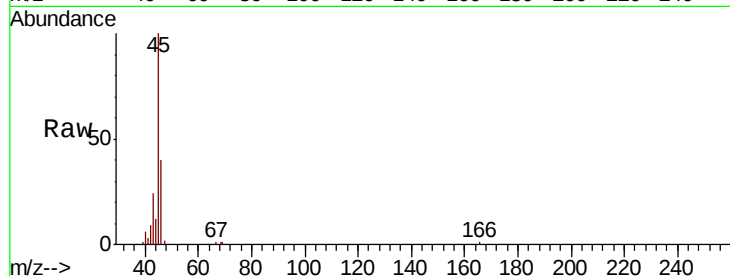
MMSV-08DL

Tot Ion: 45 Resp: 68067

Ion Ratio Lower Upper

45 100

46 37.6 14.5 57.9



#15

Acetone

Concen: 3.463 ppbv

RT: 3.90 min Scan# 301

Delta R.T. -0.00 min

Lab File: VL032895.D

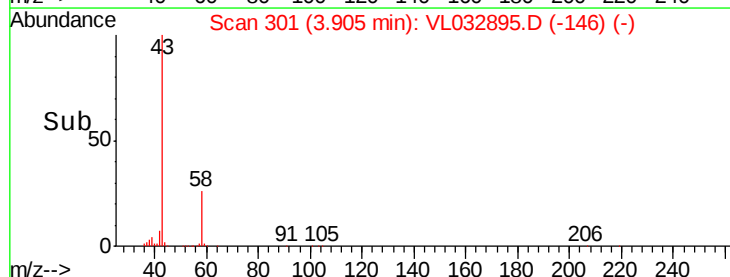
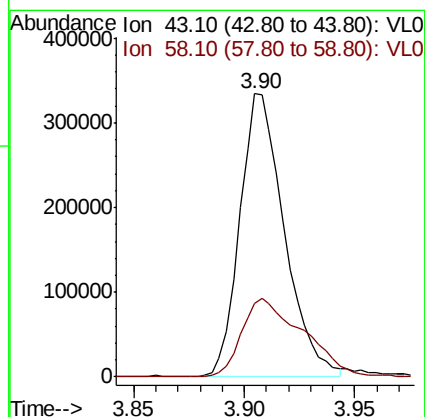
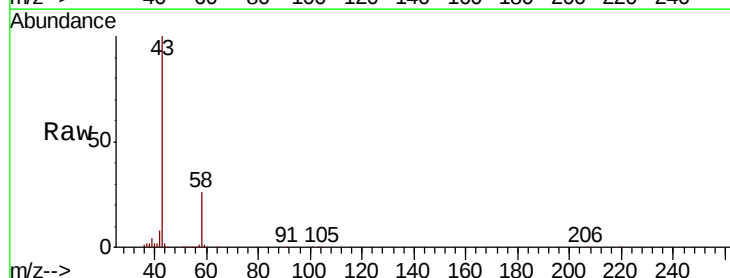
Acq: 5 Dec 2018 3:16

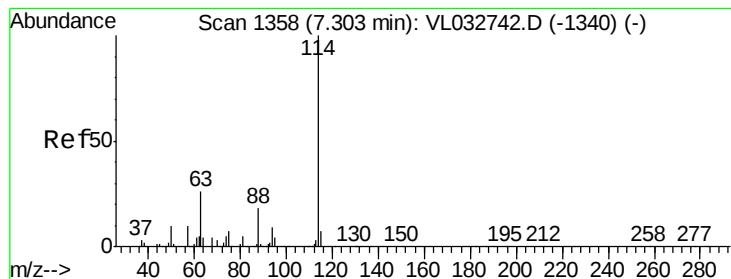
Tgt Ion: 43 Resp: 467694

Ion Ratio Lower Upper

43 100

58 39.0 21.1 31.7#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1355

Delta R.T. -0.01 min

Lab File: VL032895.D

Acq: 5 Dec 2018 3:16

Instrument :

MSVOA\_L

ClientSampleId :

MMSV-08DL

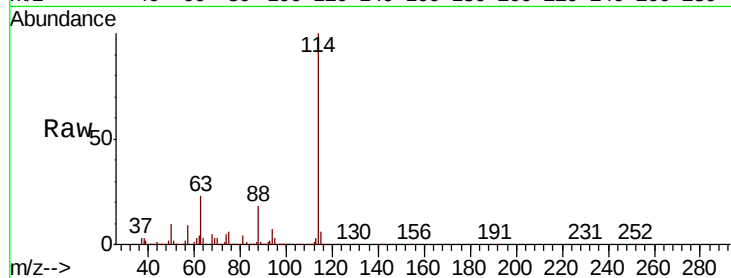
Tot Ion:114 Resp: 3604533

Ion Ratio Lower Upper

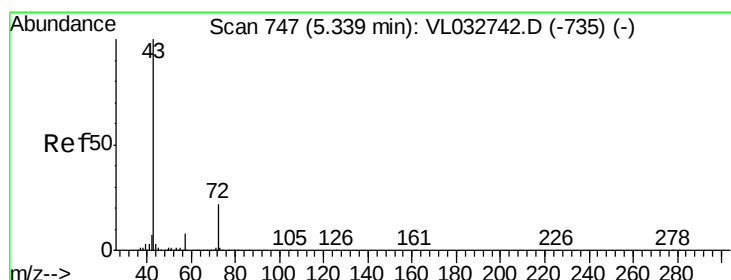
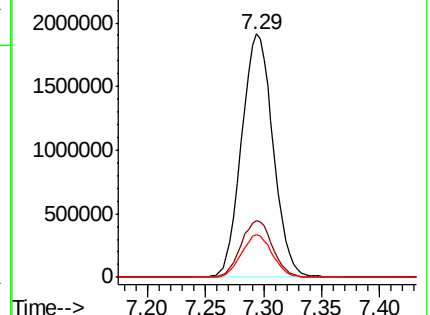
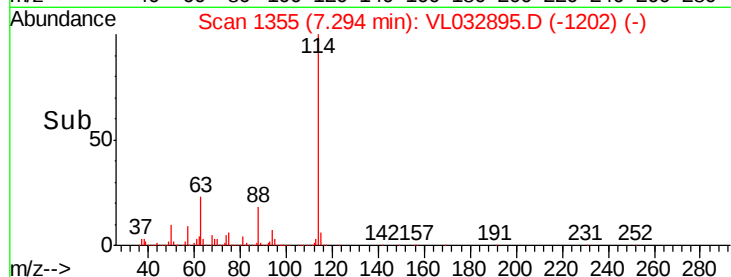
114 100

63 23.4 20.9 31.3

88 17.2 14.4 21.6



Abundance Ion 114.10 (113.80 to 114.80): VL0  
Ion 63.10 (62.80 to 63.80): VL0  
Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 10.950 ppbv

RT: 5.33 min Scan# 744

Delta R.T. -0.01 min

Lab File: VL032895.D

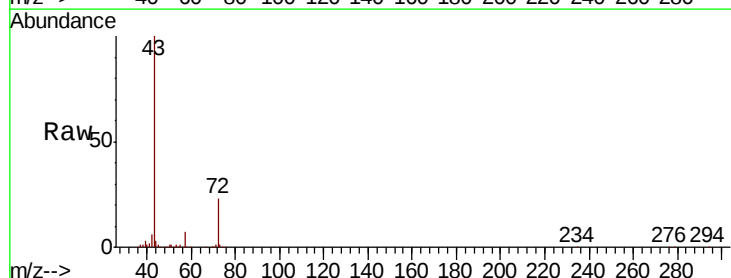
Acq: 5 Dec 2018 3:16

Tgt Ion: 43 Resp: 2047154

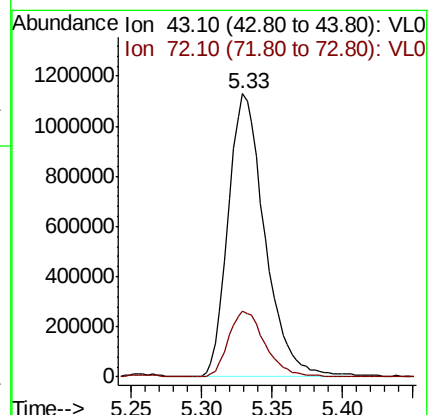
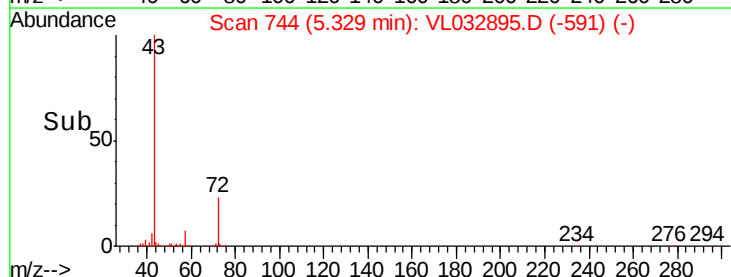
Ion Ratio Lower Upper

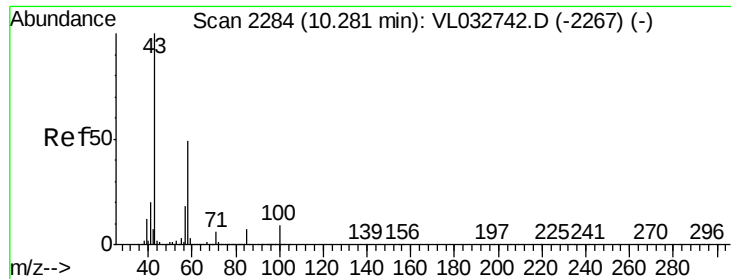
43 100

72 23.7 18.4 27.6



Abundance Ion 43.10 (42.80 to 43.80): VL0  
Ion 72.10 (71.80 to 72.80): VL0

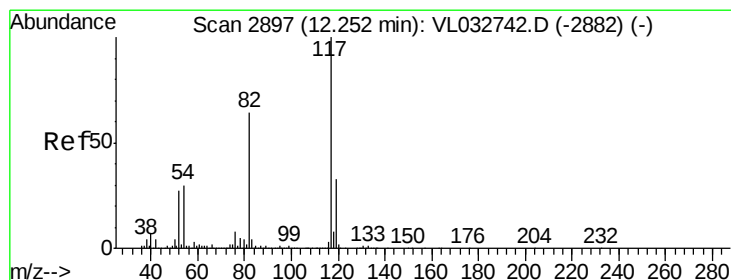
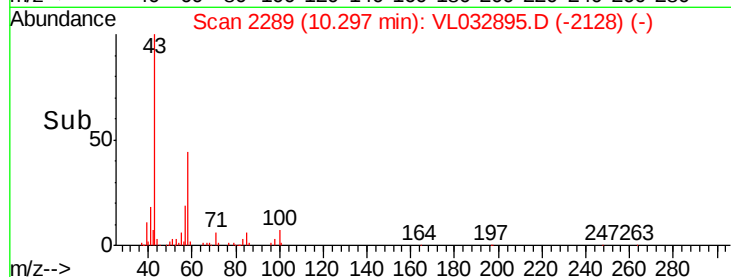
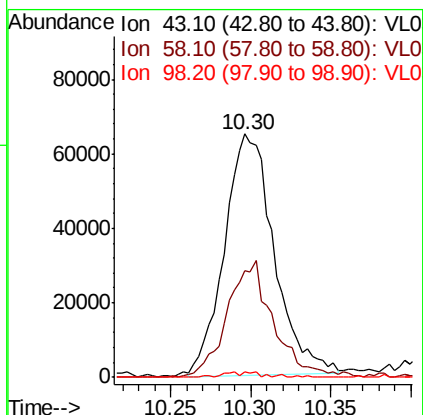
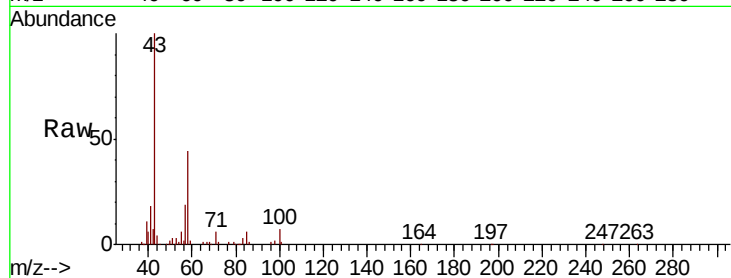




#51  
2-Hexanone  
Concen: 0.731 ppbv  
RT: 10.30 min Scan# 2289  
Delta R.T. 0.02 min  
Lab File: VL032895.D  
Acq: 5 Dec 2018 3:16

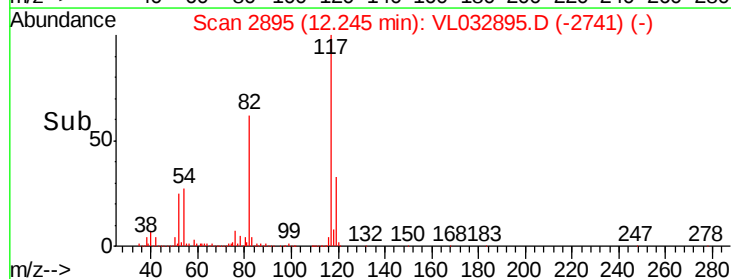
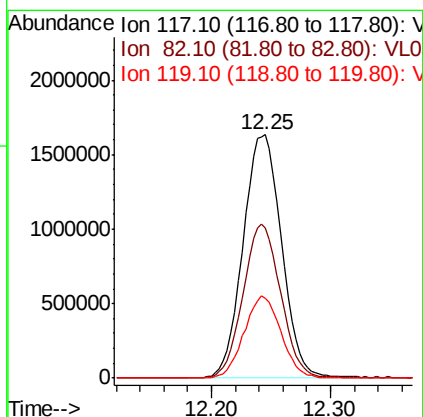
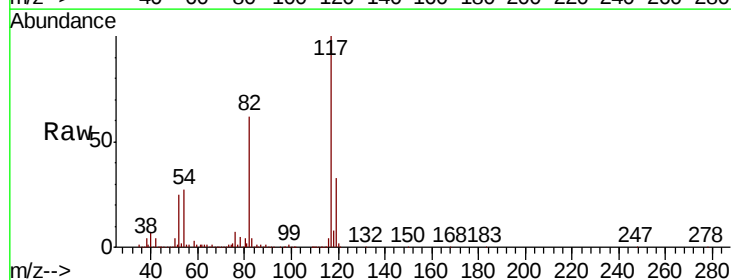
Instrument :  
MSVOA\_L  
ClientSampleId :  
MMSV-08DL

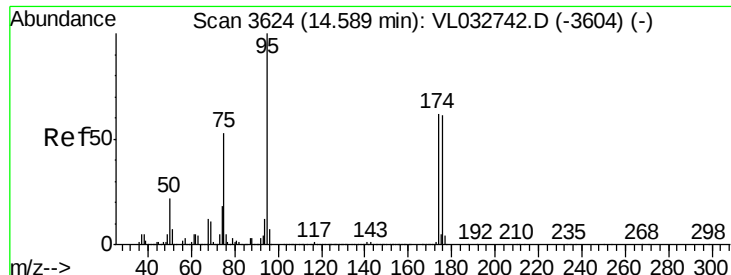
Tot Ion: 43 Resp: 137444  
Ion Ratio Lower Upper  
43 100  
58 45.1 38.9 58.3  
98 1.8 0.2 0.4#



#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.25 min Scan# 2895  
Delta R.T. -0.01 min  
Lab File: VL032895.D  
Acq: 5 Dec 2018 3:16

Tgt Ion: 117 Resp: 3656276  
Ion Ratio Lower Upper  
117 100  
82 62.1 51.0 76.6  
119 32.5 28.0 42.0





#68

1-Bromo-4-Fluorobenzene

Concen: 9.706 ppbv

RT: 14.58 min Scan# 3621

Delta R.T. -0.01 min

Lab File: VL032895.D

Acq: 5 Dec 2018 3:16

Instrument :

MSVOA\_L

ClientSampleId :

MMSV-08DL

Tot Ion: 95 Resp: 2654277

Ion Ratio Lower Upper

95 100

174 66.8 50.7 76.1

175 5.0 3.8 5.6

