

Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL030121\  
 Data File : VL036409.D  
 Acq On : 1 Mar 2021 10:55  
 Operator : SY/AP  
 Sample : VL0301ABL01  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0301ABL01

Quant Time: Mar 03 04:50:31 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL021021AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_LWed Feb 10 16:04:02 2021  
 QLast Update : Wed Feb 10 16:04:02 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.69  | 49   | 1792545  | 10.00 | ppbv  | 0.05     |
| 33) 1,4-Difluorobenzene | 7.20  | 114  | 3915166  | 10.00 | ppbv  | 0.05     |
| 55) Chlorobenzene-d5    | 12.12 | 117  | 3521965  | 10.00 | ppbv  | 0.06     |

System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.45  | 95    | 2836047  | 9.79     | ppbv | 0.05   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 97.90% |

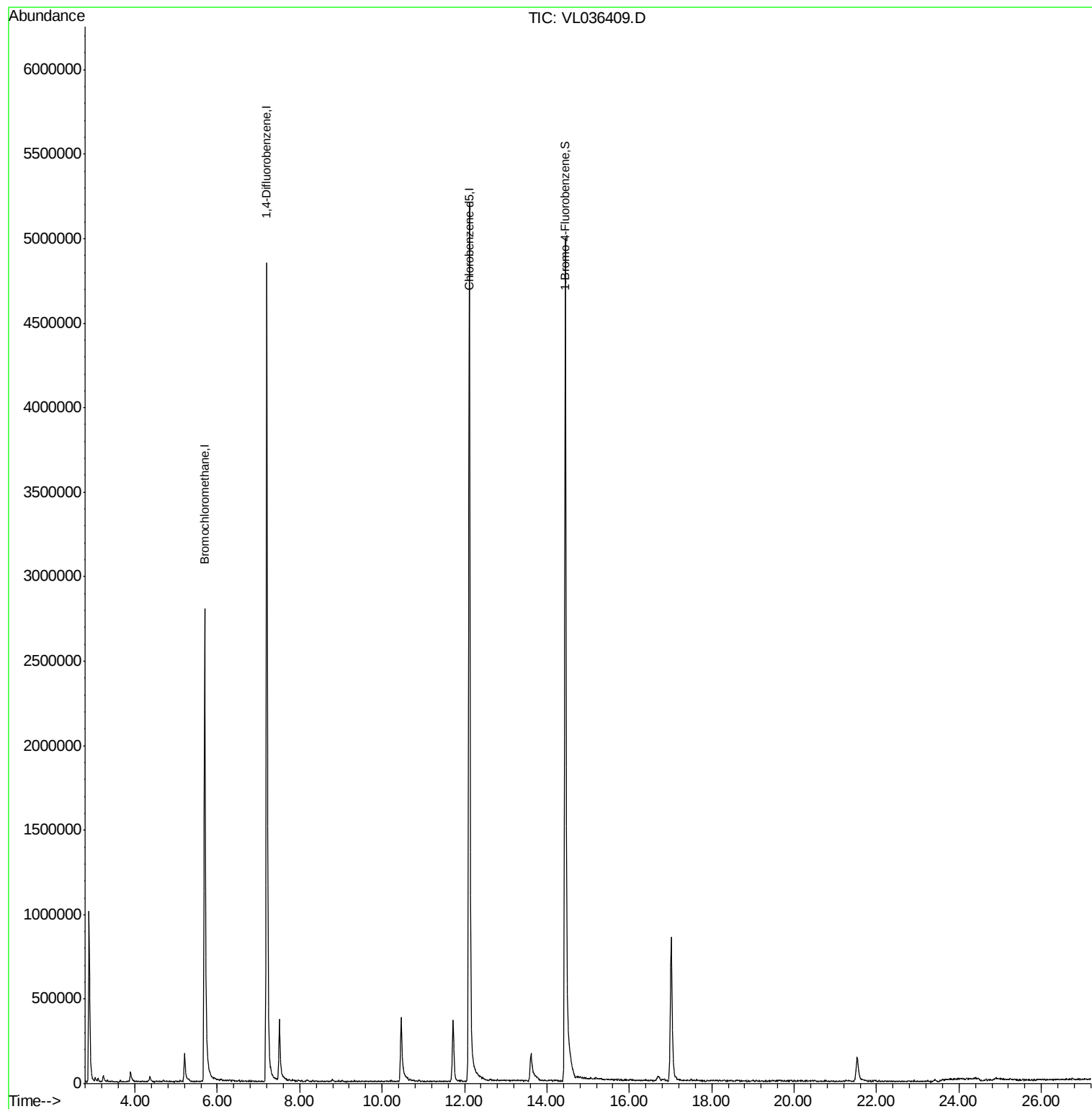
| Target Compounds | Ovalue |
|------------------|--------|
| -----            |        |

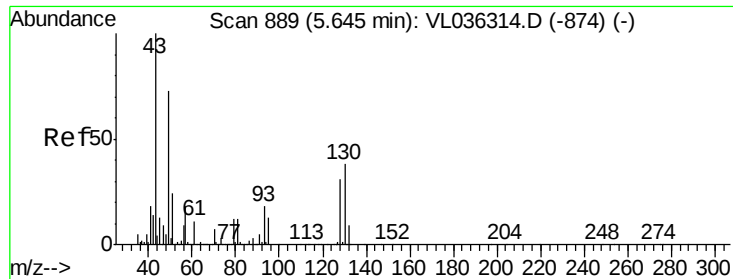
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL030121\  
Data File : VL036409.D  
Acq On : 1 Mar 2021 10:55  
Operator : SY/AP  
Sample : VL0301ABL01  
Misc : 400ml/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0301ABL01

Quant Time: Mar 03 04:50:31 2021  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL021021AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Wed Feb 10 16:04:02 2021  
QLast Update : Wed Feb 10 16:04:02 2021  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 903

Delta R.T. 0.05 min

Lab File: VL036409.D

Acq: 1 Mar 2021 10:55

Instrument :

MSVOA\_L

ClientSampleId :

VL0301ABL01

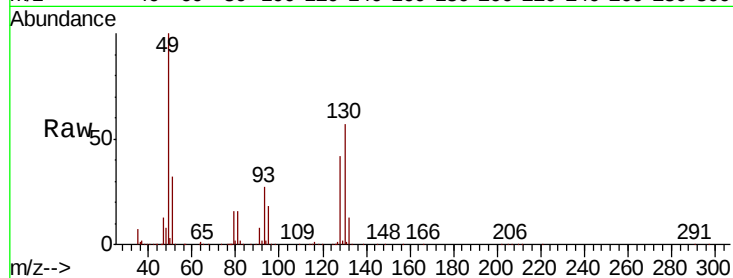
Tot Ion: 49 Resp: 1792545

Ion Ratio Lower Upper

49 100

128 42.2 20.8 62.5

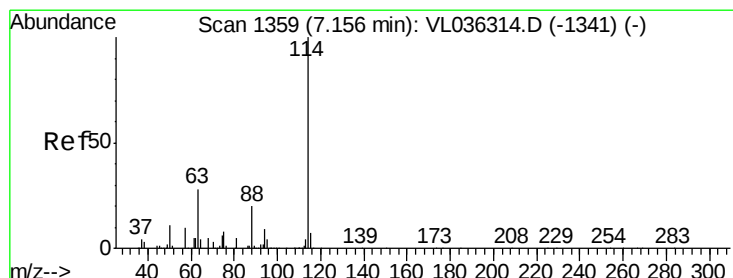
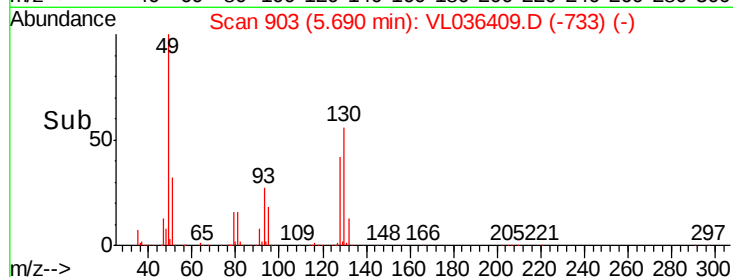
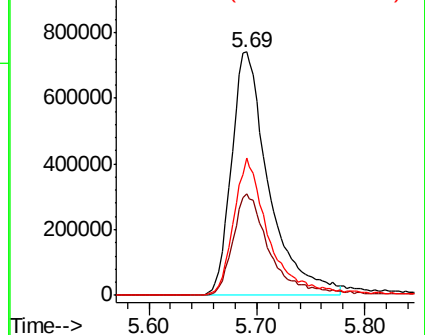
130 53.7 26.7 80.1



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.20 min Scan# 1373

Delta R.T. 0.05 min

Lab File: VL036409.D

Acq: 1 Mar 2021 10:55

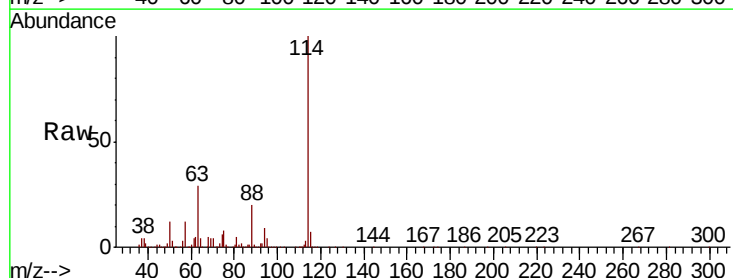
Tgt Ion: 114 Resp: 3915166

Ion Ratio Lower Upper

114 100

63 29.5 24.1 36.1

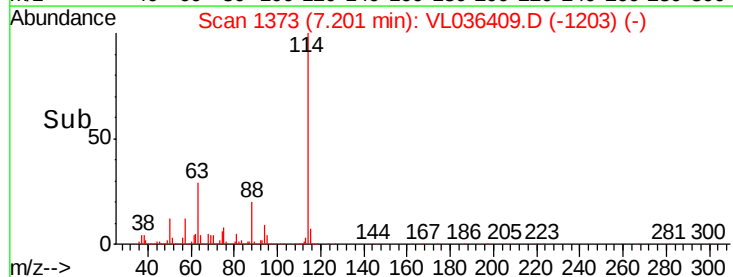
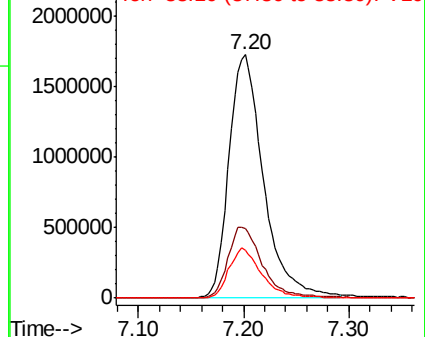
88 19.8 16.0 24.0

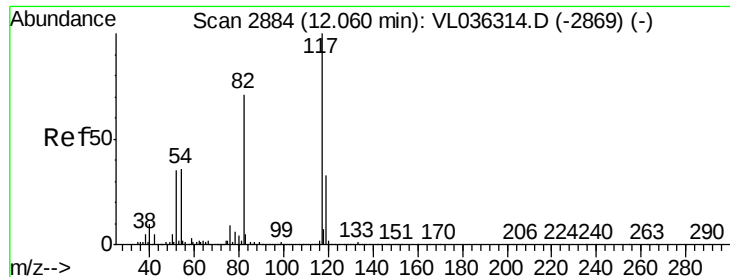


Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0

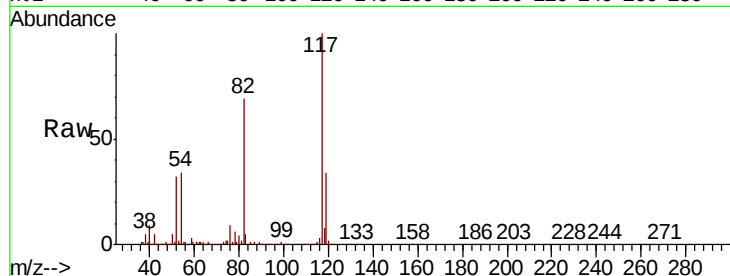




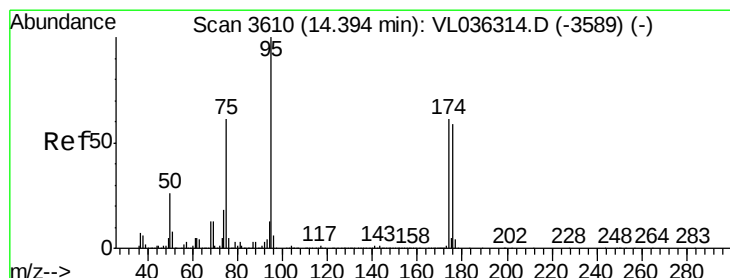
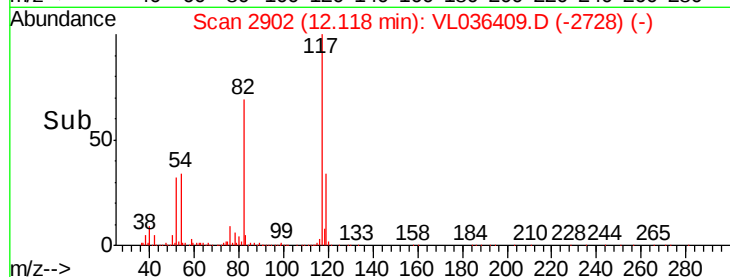
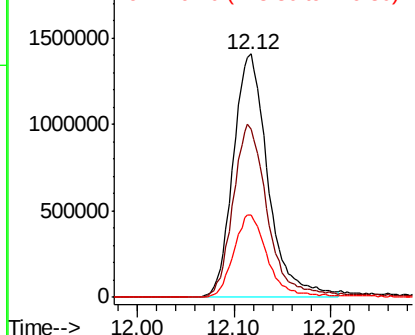
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.12 min Scan# 2902  
Delta R.T. 0.06 min  
Lab File: VL036409.D  
Acq: 1 Mar 2021 10:55

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0301ABL01

Tot Ion:117 Resp: 3521965  
Ion Ratio Lower Upper  
117 100  
82 72.5 59.1 88.7  
119 33.9 46.3 69.5#

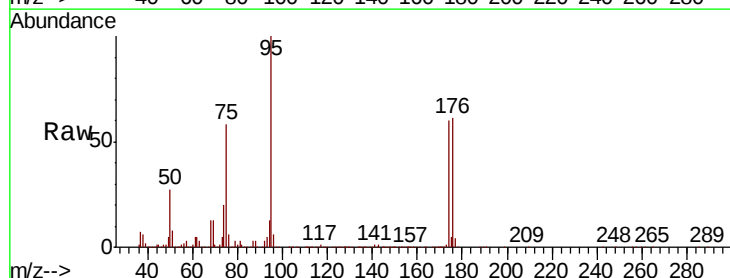


Abundance Ion 117.10 (116.80 to 117.80): V  
Ion 82.10 (81.80 to 82.80): VL0  
Ion 119.10 (118.80 to 119.80): V



#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.787 ppbv  
RT: 14.45 min Scan# 3626  
Delta R.T. 0.05 min  
Lab File: VL036409.D  
Acq: 1 Mar 2021 10:55

Tgt Ion: 95 Resp: 2836047  
Ion Ratio Lower Upper  
95 100  
174 62.9 49.8 74.6  
175 4.6 3.7 5.5



Abundance Ion 95.10 (94.80 to 95.80): VL0  
Ion 174.00 (173.70 to 174.70): V  
Ion 175.00 (174.70 to 175.70): V

