

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090321\  
 Data File : VL037534.D  
 Acq On : 3 Sep 2021 23:17  
 Operator : SY/AP  
 Sample : CAN 10608  
 Misc : 400mL/MSVOA L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 CAN 10608

Quant Time: Sep 04 04:23:22 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081621AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Tue Aug 17 02:13:47 2021  
 QLast Update : Tue Aug 17 02:13:47 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.66  | 49   | 1576600  | 10.00 | ppbv  | 0.01     |
| 33) 1,4-Difluorobenzene | 7.17  | 114  | 4670344  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.08 | 117  | 4040229  | 10.00 | ppbv  | 0.01     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.41  | 95    | 3036261  | 10.58    | ppbv | 0.01    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 105.80% |

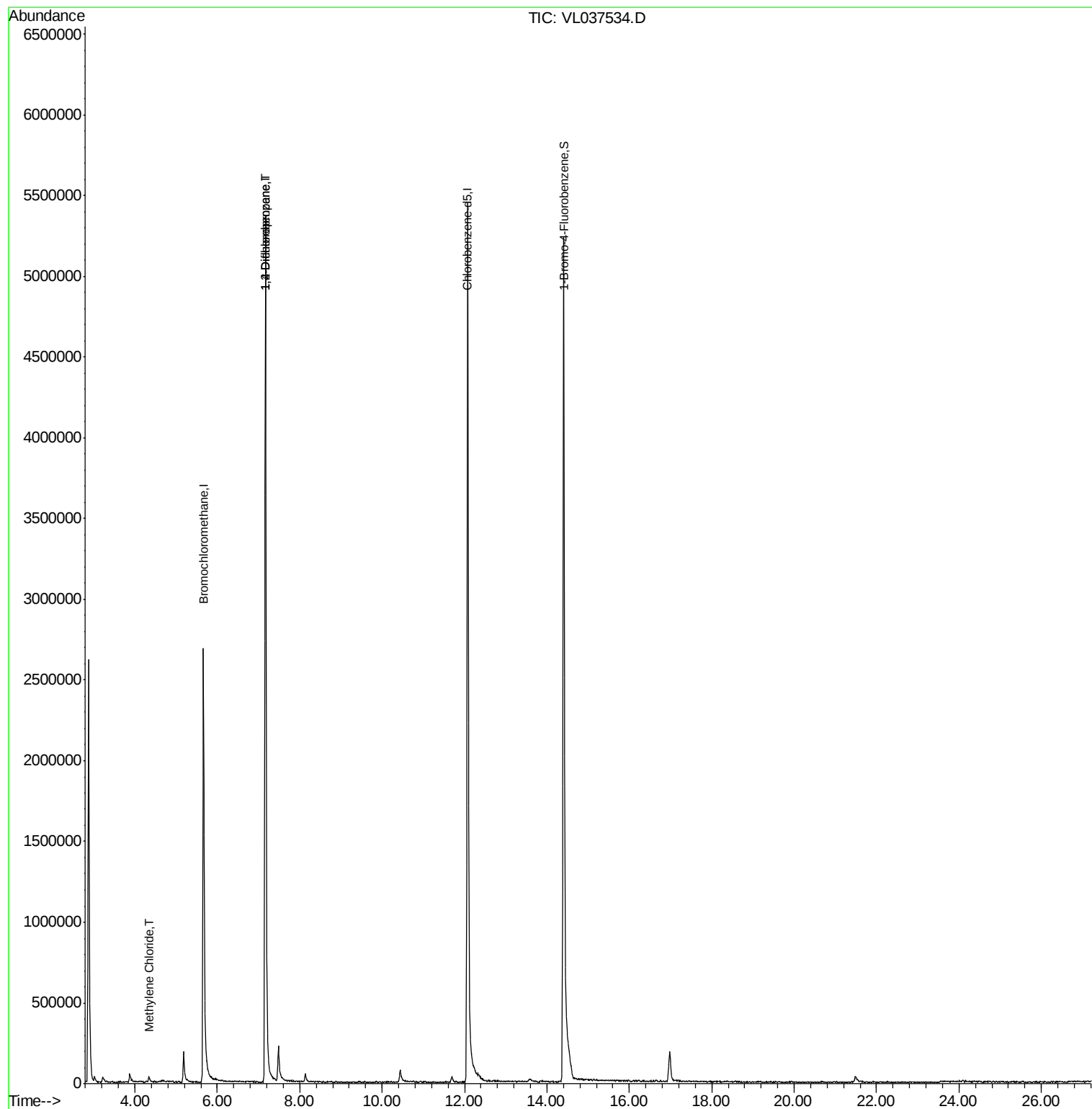
| Target Compounds        | R.T. | QIon | Response | Conc  | Units  | Ovalue |
|-------------------------|------|------|----------|-------|--------|--------|
| 20) Methylene Chloride  | 4.34 | 84   | 6401     | 0.080 | ppbv # | 83     |
| 39) 1,2-Dichloropropane | 7.17 | 63   | 1089661  | 7.223 | ppbv # | 27     |

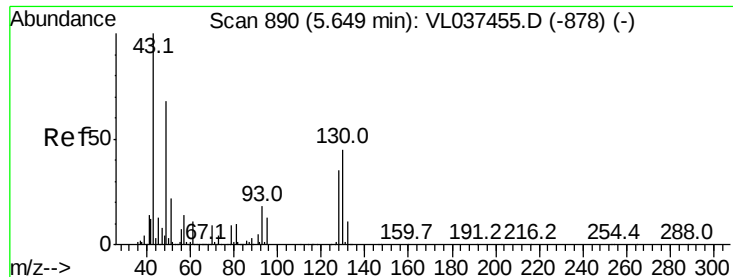
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Tue Aug 17 02:13:47 2021  
QLast Update : Tue Aug 17 02:13:47 2021  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. 0.01 min

Lab File: VL037534.D

Acq: 3 Sep 2021 23:17

Instrument :

MSVOA\_L

ClientSampleId :

CAN 10608

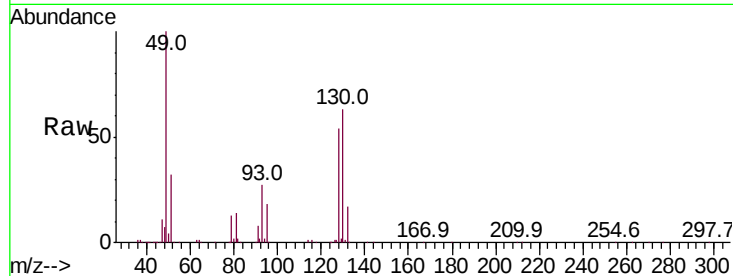
Tot Ion: 49 Resp: 1576600

Ion Ratio Lower Upper

49 100

128 55.7 27.5 82.4

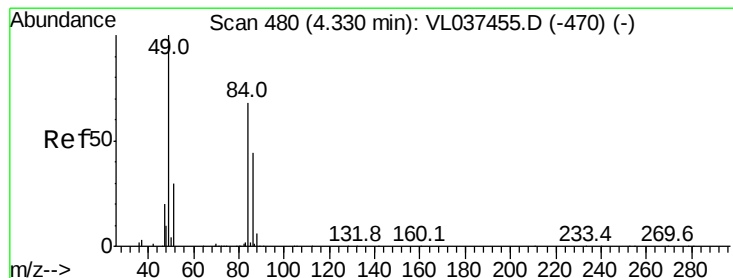
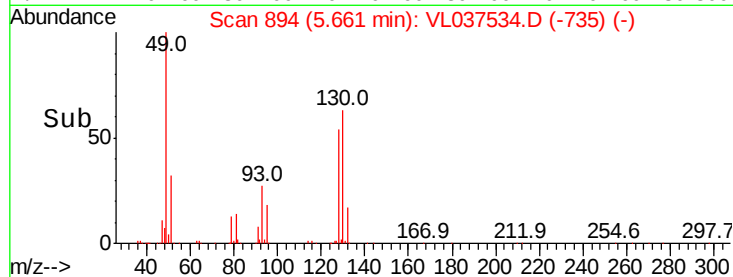
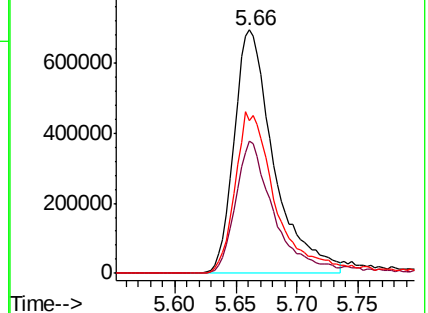
130 69.9 34.0 101.8



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



#20

Methylene Chloride

Concen: 0.080 ppbv

RT: 4.34 min Scan# 482

Delta R.T. 0.01 min

Lab File: VL037534.D

Acq: 3 Sep 2021 23:17

Tgt Ion: 84 Resp: 6401

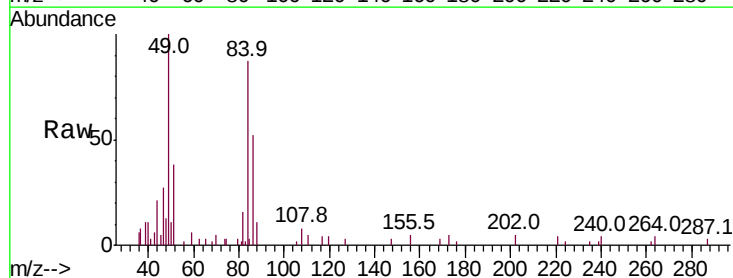
Ion Ratio Lower Upper

84 100

49 112.5 118.2 177.2#

51 45.1 36.6 55.0

86 62.1 51.8 77.6

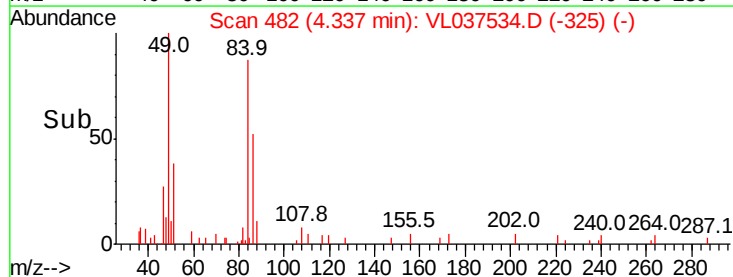
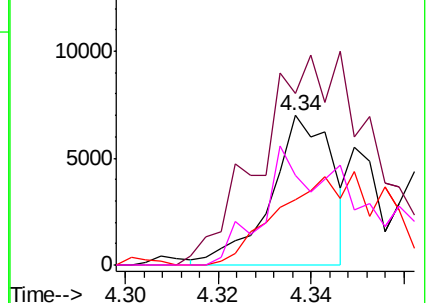


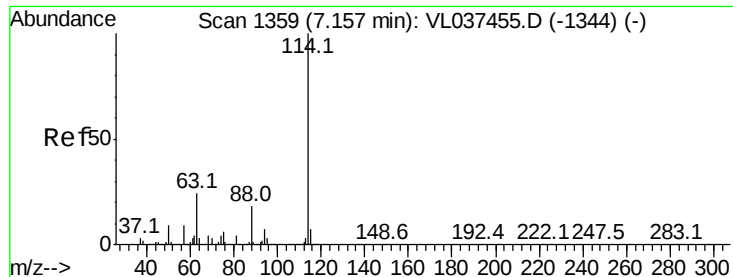
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 min Scan# 1362

Delta R.T. 0.01 min

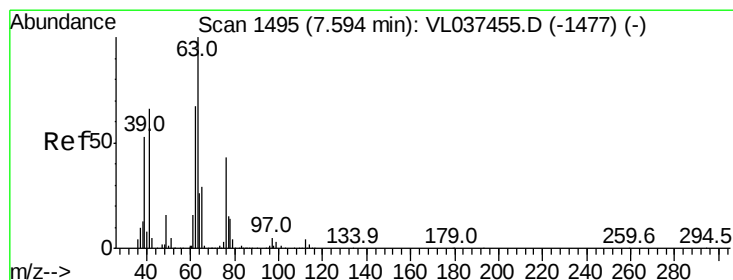
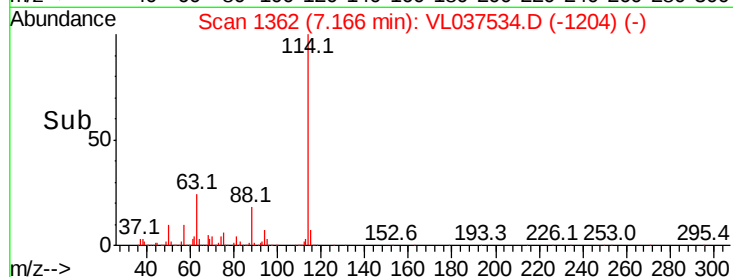
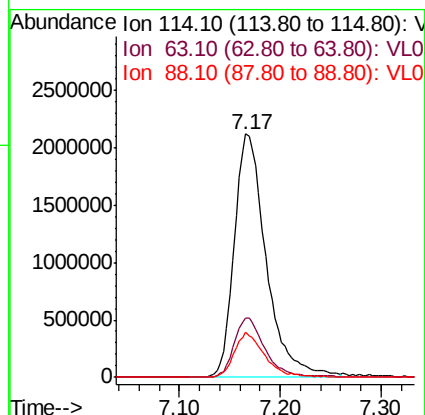
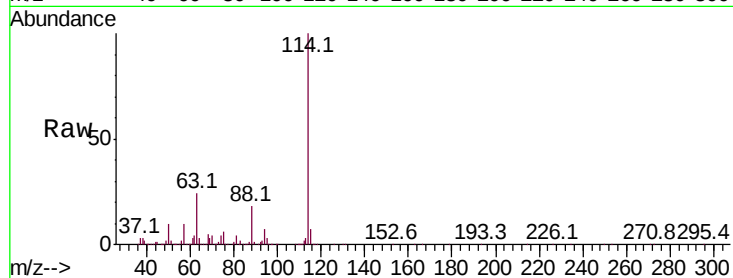
Lab File: VL037534.D

Acq: 3 Sep 2021 23:17

Instrument :  
MSVOA\_L  
ClientSampleId :  
CAN 10608

Tot Ion:114 Resp: 4670344

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 114 | 100   |       |       |
| 63  | 24.1  | 19.3  | 28.9  |
| 88  | 17.8  | 14.2  | 21.4  |



#39

1,2-Dichloropropane

Concen: 7.223 ppbv

RT: 7.17 min Scan# 1362

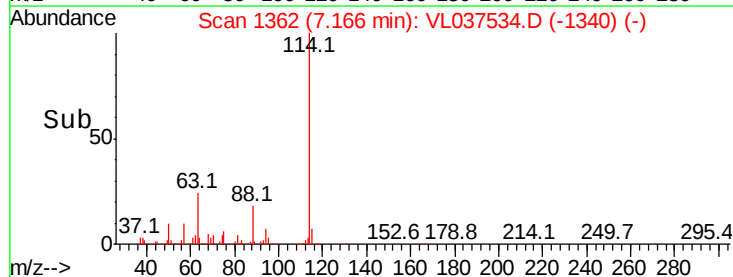
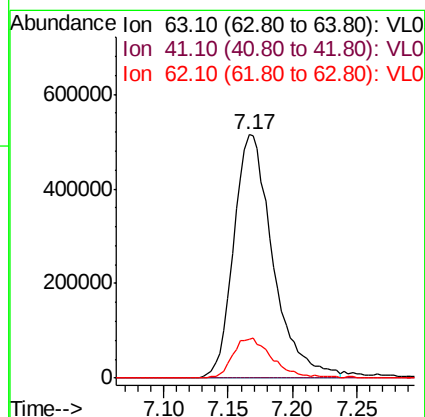
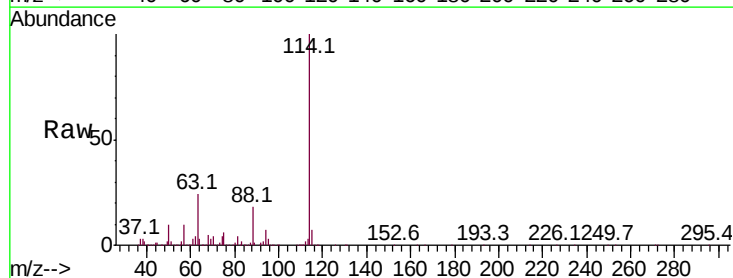
Delta R.T. -0.43 min

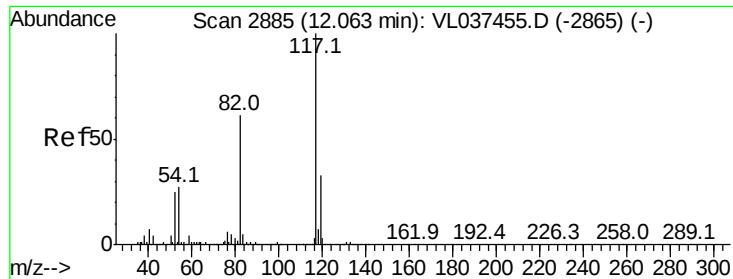
Lab File: VL037534.D

Acq: 3 Sep 2021 23:17

Tgt Ion: 63 Resp: 1089661

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 41  | 0.1   | 52.4  | 78.6# |
| 62  | 16.1  | 53.6  | 80.4# |

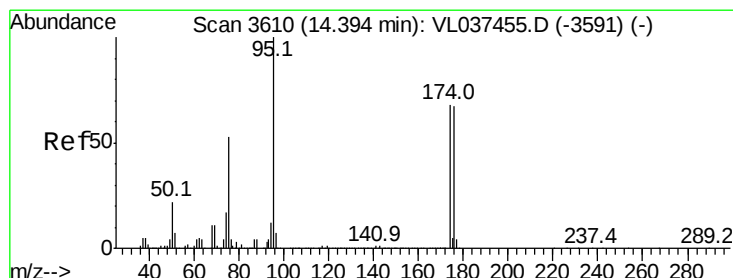
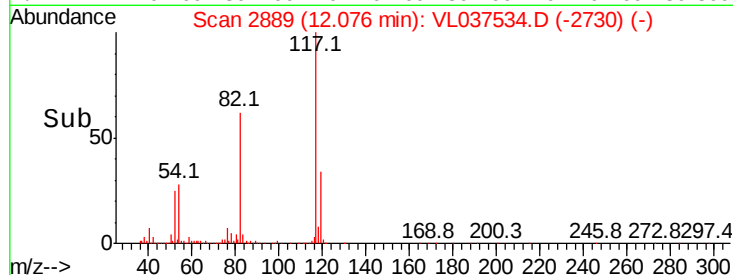
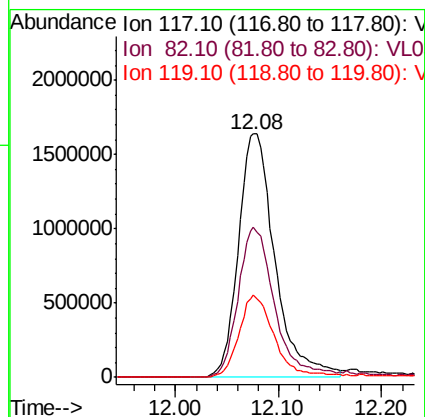
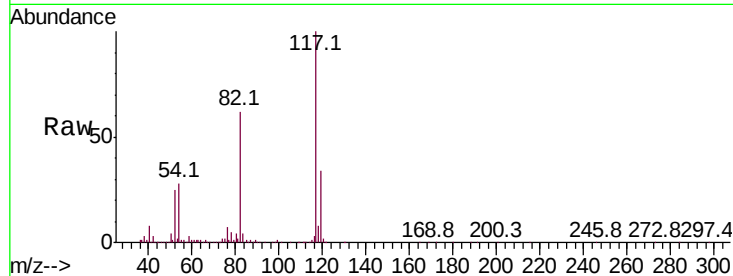




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.08 min Scan# 2889  
Delta R.T. 0.01 min  
Lab File: VL037534.D  
Acq: 3 Sep 2021 23:17

Instrument :  
MSVOA\_L  
ClientSampleId :  
CAN 10608

Tot Ion:117 Resp: 4040229  
Ion Ratio Lower Upper  
117 100  
82 64.0 52.9 79.3  
119 34.2 24.8 37.2



#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.578 ppbv  
RT: 14.41 min Scan# 3614  
Delta R.T. 0.01 min  
Lab File: VL037534.D  
Acq: 3 Sep 2021 23:17

Tgt Ion: 95 Resp: 3036261  
Ion Ratio Lower Upper  
95 100  
174 72.8 59.6 89.4  
175 4.9 4.6 7.0

