

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071620\  
 Data File : VL035198.D  
 Acq On : 16 Jul 2020 17:49  
 Operator : SY/AP  
 Sample : L3318-01 600X  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 PERM-02

Quant Time: Jul 17 09:51:01 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070820AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_LWed Jul 08 07:05:23 2020  
 QLast Update : Wed Jul 08 07:05:23 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.64  | 49   | 1064741  | 10.00 | ppbv  | -0.02    |
| 33) 1,4-Difluorobenzene | 7.15  | 114  | 2611832  | 10.00 | ppbv  | -0.03    |
| 55) Chlorobenzene-d5    | 12.09 | 117  | 2406479  | 10.00 | ppbv  | -0.03    |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.43  | 95    | 1976398  | 10.11    | ppbv | -0.02   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 101.10% |

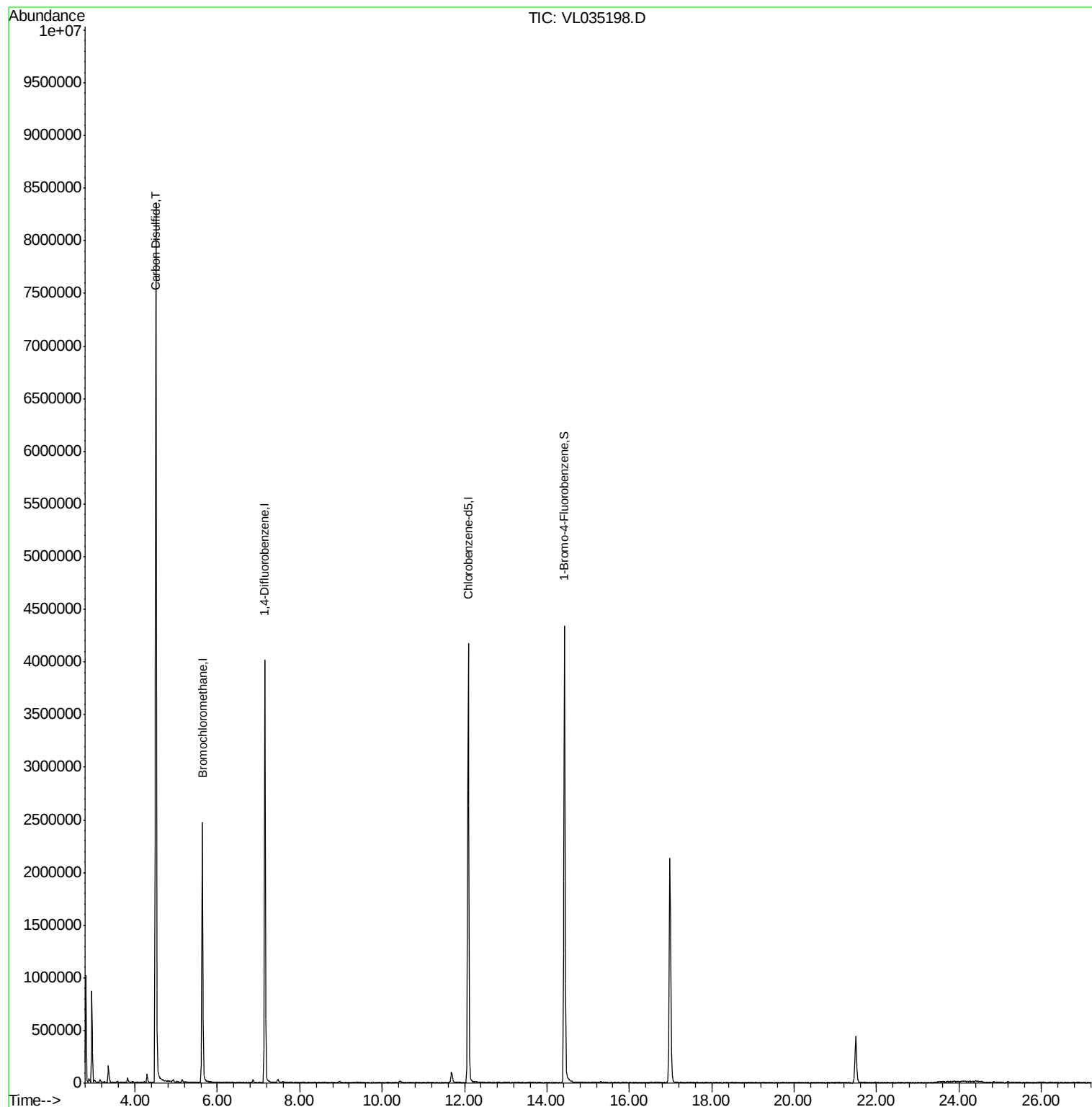
| Target Compounds     | R.T. | QIon | Response | Conc   | Units | Ovalue |
|----------------------|------|------|----------|--------|-------|--------|
| 27) Carbon Disulfide | 4.51 | 76   | 9889847  | 71.806 | ppbv  | # 82   |

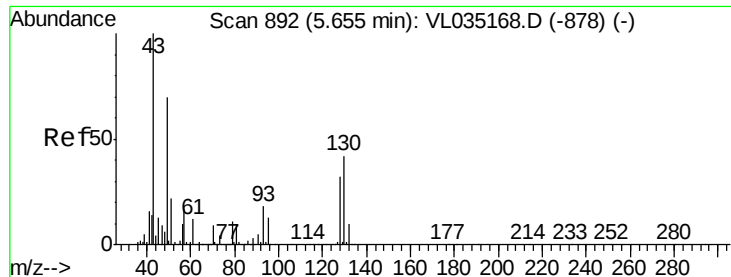
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 17 09:51:01 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070820AIR.M  
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QLast Update : Wed Jul 08 07:05:23 2020  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 min Scan# 886

Delta R.T. -0.02 min

Lab File: VL035198.D

Acq: 16 Jul 2020 17:49

Instrument :

MSVOA\_L

ClientSampleId :

PERM-02

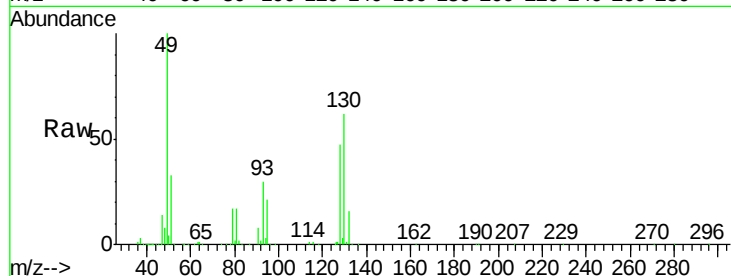
Tot Ion: 49 Resp: 1064741

Ion Ratio Lower Upper

49 100

128 49.9 23.8 71.4

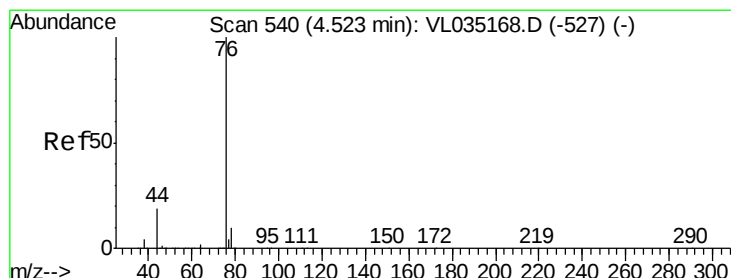
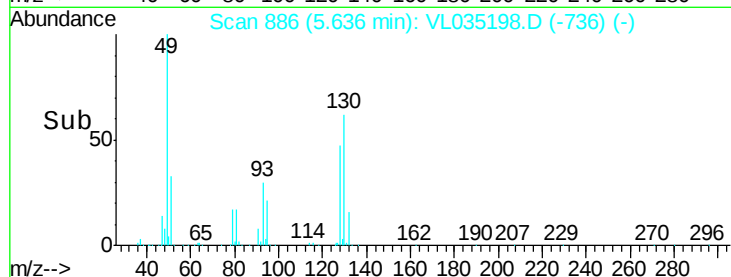
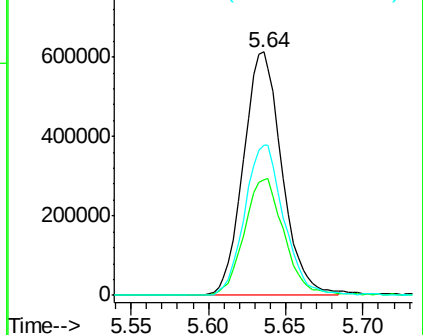
130 63.6 29.9 89.8



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



#27

Carbon Disulfide

Concen: 71.806 ppbv

RT: 4.51 min Scan# 535

Delta R.T. -0.02 min

Lab File: VL035198.D

Acq: 16 Jul 2020 17:49

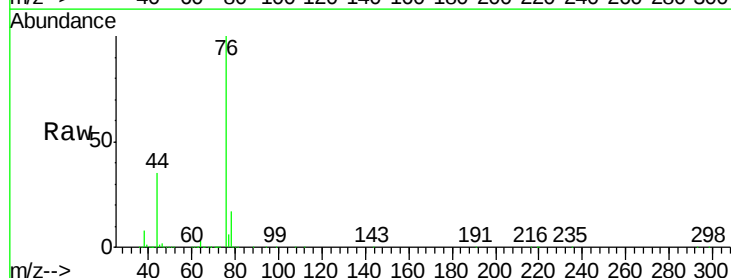
Tgt Ion: 76 Resp: 9889847

Ion Ratio Lower Upper

76 100

44 28.2 14.9 22.3#

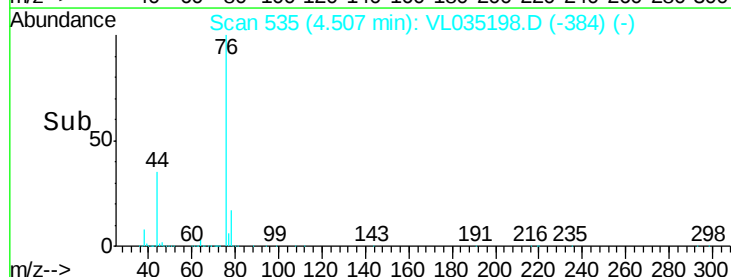
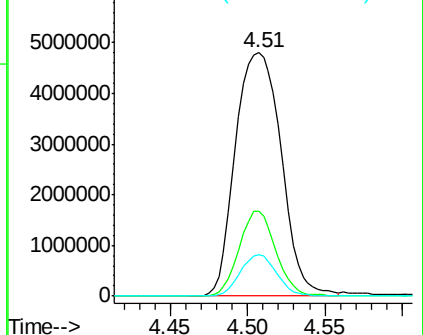
78 13.8 7.5 11.3#

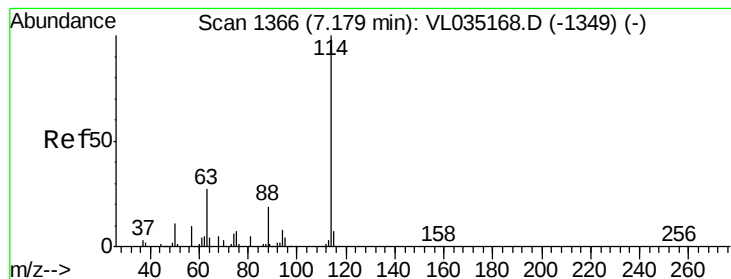


Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.15 min Scan# 1358

Delta R.T. -0.03 min

Lab File: VL035198.D

Acq: 16 Jul 2020 17:49

Instrument :

MSVOA\_L

ClientSampleId :

PERM-02

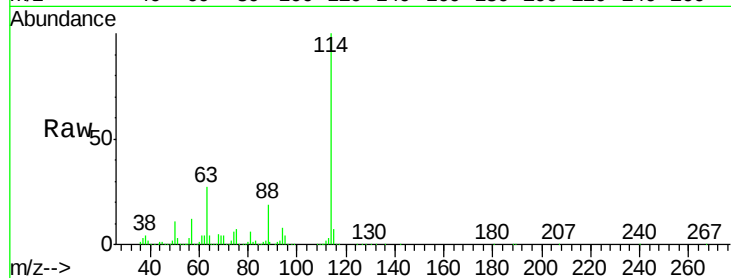
Tot Ion:114 Resp: 2611832

Ion Ratio Lower Upper

114 100

63 27.5 22.0 33.0

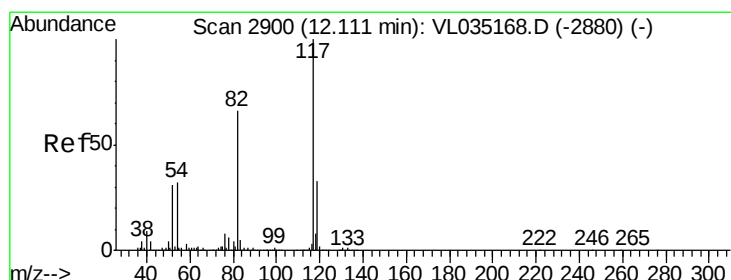
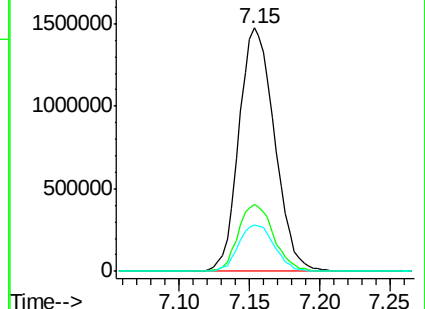
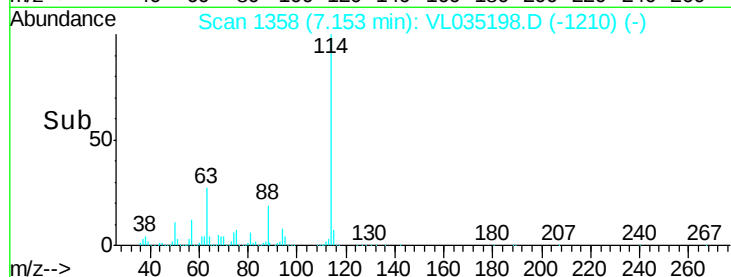
88 19.4 15.4 23.0



Abundance Ion 114.10 (113.80 to 114.80): V

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: 12.09 min Scan# 2892

Delta R.T. -0.03 min

Lab File: VL035198.D

Acq: 16 Jul 2020 17:49

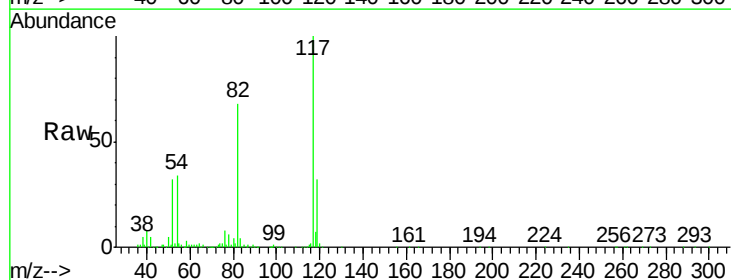
Tgt Ion:117 Resp: 2406479

Ion Ratio Lower Upper

117 100

82 69.8 52.3 78.5

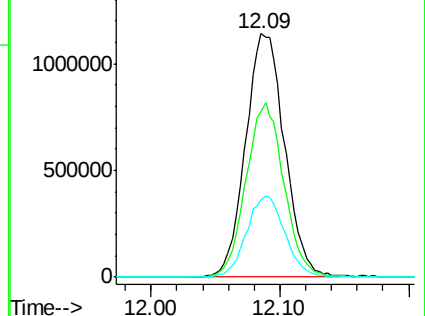
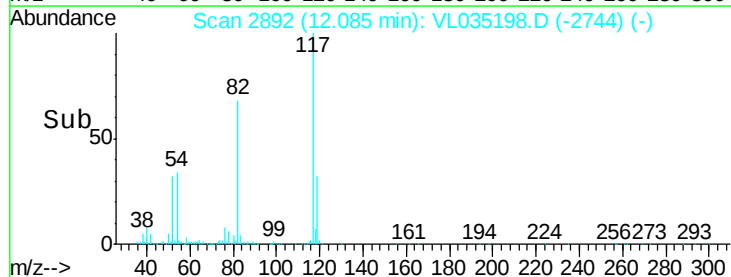
119 32.8 24.9 37.3

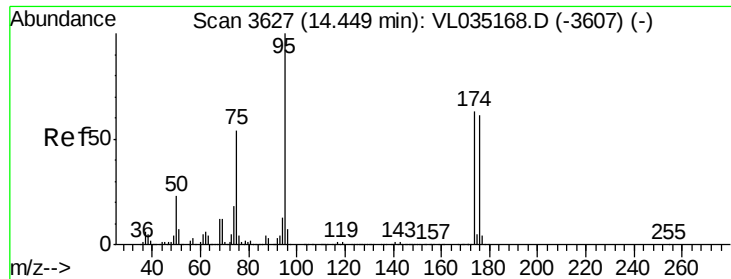


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.110 ppbv  
 RT: 14.43 min Scan# 3620  
 Delta R.T. -0.02 min  
 Lab File: VL035198.D  
 Acq: 16 Jul 2020 17:49

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 PERM-02

Tot Ion: 95 Resp: 1976398  
 Ion Ratio Lower Upper  
 95 100  
 174 65.8 52.2 78.2  
 175 4.5 4.0 6.0

