

**Client:** Air Quality Inspections  
3212 NW 12th St.  
Baltimore, MD 21224  
U.S.A.

**COC:** 6010  
**Laboratory ID:** 6010-4

**Sampled By:** Alex Carter  
**Project:** Smith  
**Location:** 123 W. Maple Ave.  
Boston, MA 25478

**Received Date:** 01/02/2013  
**Approved Date:** 01/02/2013  
**Scanned Date:** 01/03/2013  
**Report Date:** 01/04/2013

**Client Sample ID:** Office  
**Sample Volume (L):** 24.0  
**Date Sampled:** 12/31/2012  
**Sample Type:** TDT 112J

## Results for this Air Sample

**Total VOCs (TVOC): 2600 ng/L**

Total volatile organic compounds include C3-C16; calculated based on internal standard ratio.

**Total Mold VOCs (TMVOC): 20 ng/L**

Mold VOCs are produced during the metabolic processes of molds and other micro-organisms and therefore can be used as an indicator of actively growing mold.

## Significant VOCs

The chemical compounds listed below include some of the more common VOCs in indoor air that were found in your air sample.

Compound	CAS	Estimated VOC Level (ng/L)	Estimated VOC Level (ppb)
Ethanol	64-17-5	260	140
Isobutane	75-28-5	230	96
Toluene	108-88-3	89	23
Pentane (C 5)	109-66-0	87	29
2-Butoxyethanol	111-76-2	82	17
Limonene	138-86-3 or 5989-27-5	80	14
Butane (C 4)	106-97-8	61	25
Isopropanol	67-63-0	56	22
Acetone	67-64-1	55	23
Hexane (C 6)	110-54-3	45	13

## Notes or Additional Compounds

Propylene glycol (CAS 57-55-6): ~140 ng/L

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## EPA Hazardous Air Pollutants (HAPs)

Hazardous air pollutants, also known as toxic air pollutants or air toxics, are those pollutants that are known or suspected to cause cancer or other serious health effects, such as reproductive effects or birth defects, or adverse environmental effects. Listed below are those HAPs that are included with the IAQ VOC test, this list does not include all HAPs. For more information about HAPs visit the EPA [Air Toxics website](#). The exposure limits listed below can also be found in the [NIOSH Guide to Chemical Hazards](#). The HAPs in the table below may also be listed as Significant VOCs if the concentration of that chemical compound is greater than the threshold level for a Significant VOC.

Compound	CAS	Estimated VOC Level (ng/L)	Estimated VOC Level (ppb)	NIOSH Exposure Limit
Carbonyl sulfide	463-58-1	< 1	< 0.4	None Listed
Carbon disulfide	75-15-0	< 1	< 0.3	3,000 ng/L (1,000 ppb)
Methylene Chloride	75-09-2	< 1	< 0.3	Carcinogen
Hexane (C 6)	110-54-3	45	13	180,000 ng/L (50,000 ppb)
1,1,1-Trichloroethane	71-55-6	< 1	< 0.2	C; 1,900,000 ng/L (350,000 ppb)
Benzene	71-43-2	< 1	< 0.3	320 ng/L (100 ppb)
1,2-Dichloroethane	107-06-2	< 1	< 0.2	Carcinogen; 4,000 ng/L (1,000 ppb)
Trichloroethene	79-01-6	< 1	< 0.2	Carcinogen
Methyl methacrylate	80-62-6	< 1	< 0.3	410,000 ng/L (100,000 ppb)
Toluene	108-88-3	89	23	375,000 ng/L (100,000 ppb)
Tetrachloroethene	127-18-4	< 1	< 0.1	Carcinogen
Ethylbenzene	100-41-4	14	3	435,000 ng/L (100,000 ppb)
m,p-Xylene	108-38-3; 106-42-3	24	5	435,000 ng/L (100,000 ppb)
o-Xylene	95-47-6	16	4	435,000 ng/L (100,000 ppb)
Styrene	100-42-5	< 1	< 0.2	215,000 ng/L (50,000 ppb)
1,4-Dichlorobenzene	106-46-7	< 1	< 0.2	Carcinogen
Naphthalene	91-20-3	< 1	< 0.2	50,000 ng/L (10,000 ppb)

These results are authorized by the Laboratory Director or approved representative.

This analysis was performed by Prism Analytical Technologies, Inc. (Prism). The results contained in this report are dependent upon a number of factors over which Prism has no control, which may include, but are not limited to, the sampling technique utilized, the size or source of sample, the ability of the sampler to collect a proper or suitable sample, the compounds which make up the TVOC, and/or the type of mold(s) present. Therefore, the opinions contained in this report may be invalid and cannot be considered or construed as definitive and neither Prism, nor its agents, officers, directors, employees, or successors shall be liable for any claims, actions, causes of action, costs, loss of service, medical or other expenses or any compensation whatsoever which may now or hereafter occur or accrue based upon the information or opinions contained herein.

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