

Client: Air Quality Inspections  
3212 NW 12th St.  
Baltimore, MD 21224

**COC: 6010**  
**Laboratory ID: 6010-1**

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

Received Date: 12/03/2014  
Approved Date: 12/03/2014  
Scanned Date: 12/05/2014  
Report Date: 12/08/2014

Client Sample ID: Office  
Volume: 24.4 L  
Date Sampled: 12/01/2014  
Sample Type: TDT 112J

## A2-MSX Fire TDT Analysis

Primary and Secondary Fire/Smoke indicators are listed below. Secondary indicators may have significant additional sources or insufficient instrument response. Results reported semiquantitatively are determined based on an internal standard ratio only. Results displayed in order of decreasing volatility as indicated by the Retention Index (RI). Analysis performed via NIOSH method 2549 and ISO method 16000-6 (modified).

### General Notes

The Fire VOC results below indicate that fire/smoke residue is present.

### Primary Fire Indicators

| Compound                | CAS                 | Sample Concentration |        | Reporting Limit | Additional Information |
|-------------------------|---------------------|----------------------|--------|-----------------|------------------------|
|                         |                     | ng/L                 | ppb    | ng/L            |                        |
| 2-Furaldehyde           | 98-01-1             | 0.7                  | 0.2    | 0.2             | Furfural               |
| o-Cresol                | 95-48-7             | < 0.2                | < 0.05 | 0.2             |                        |
| 2-Methoxyphenol         | 90-05-1             | 1.1                  | 0.2    | 0.2             | Guaicol                |
| m,p-Cresol              | 108-39-4 & 106-44-5 | 0.6                  | 0.1    | 0.4             |                        |
| Creosol                 | 93-51-6             | 0.7                  | 0.1    | 0.4             |                        |
| 4-Ethyl-2-methoxyphenol | 2785-89-9           | < 0.4                | < 0.06 | 0.4             | 4-Ethylguaicol         |
| Acenaphthylene          | 208-96-8            | 0.2                  | 0.04   | 0.2             |                        |

### Secondary Fire Indicators

| Compound            | CAS      | Sample Concentration |        | Reporting Limit | Additional Information                               |
|---------------------|----------|----------------------|--------|-----------------|--|
|                     |          | ng/L                 | ppb    | ng/L            |  |
| Methylbiphenyl      | N/A      | < 1                  | < 0.1  | 1.0             | Cannot determine isomer; Reported Semiquantitatively |
| Acrolein            | 107-02-8 | < 1                  | < 0.4  | 1.0             | Reported Semiquantitatively                          |
| Acetonitrile        | 75-05-8  | < 0.2                | < 0.1  | 0.2             |  |
| Salicylaldehyde     | 90-02-8  | < 0.4                | < 0.08 | 0.4             |  |
| Naphthalene         | 91-20-3  | 0.3                  | 0.06   | 0.2             |  |
| 2,4-Dimethylphenol  | 105-67-9 | < 0.2                | < 0.04 | 0.2             |  |
| 2-Methylnaphthalene | 91-57-6  | < 0.2                | < 0.03 | 0.2             |  |
| Biphenyl            | 92-52-4  | < 1                  | < 0.2  | 1.0             | Reported Semiquantitatively                          |

These results pertain only to this sample as it was collected and to the items reported.  
These results have been reviewed and approved by the Laboratory Director or authorized representative.



Alice E. Delia, Ph.D., Laboratory Director

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