

Analytical Report

Client: ABC Company
Project: Your Project
Location: Your Site
Sampled By: Mary Sampler

C.O.C. No.: 9999
Order Date: 04/30/2010
Report Date: 05/06/2010

AS002-HS TDT Air Scan Analysis: All results are reported in ng/L

A scan was made for all compounds contained in the attached Air Survey Analysis List (TB503, Rev. 14, Quantitative Lists A & B and Semiquantitative). All compounds detected are listed below:

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Client Sample ID: Your Sample Name
Laboratory ID: 9999 -2
Date Sampled: 04/29/2010
Date Analyzed: 05/04 Volume: 40.2 L

Detection Limits

Quantitative List A: 0.3 ng/L
Quantitative List B: 60 ng/L
Semiquantitative List: 3 ng/L

Compound	Calculated Result	Actual Result	Comments
Total VOCs ^c		4,300	Total volatile organic compounds calculated based on internal standard ratio; does not include C1, C2, or methanol
Paint VOCs ^d		36%	This is an estimate of the fraction of Total VOCs represented by the sum of compounds typically associated with paints and varnishes.
Formaldehyde		1,100 ^e	Methanal ppb 880 MW30 CAS 50-00-0
Propane		230	C 3 ppb 130 MW44 CAS 74-98-6
Chloroform		0.5	Trichloromethane ppb 0.1 MW118 CAS 67-66-3
2-Methylnaphthalene		15	ppb 2.5 MW142 CAS 91-57-6
2-Pentanone	12	6-24 ^f	Methyl propyl ketone ppb 3.4 MW86 CAS 107-87-9
Dimethylsulfide	1.2	0.5-2.4	ppb 0.3 MW62 CAS 75-18-3
C7-C9 Hydrocarbon	56	28-120	21.7 min ^g
C7-C9 Hydrocarbon	220	110-440	23.3 min; probably an ester ^h
Sulfolane ⁱ	46	23-92	Tetrahydrothiophene-1,1-dioxide ppb 9.2 MW120 CAS 126-33-0

These results have been reviewed and approved by the Laboratory Director.

Prism Analytical Technologies, Inc.
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Mt. Pleasant, MI 48858

Sample Report Explanation Sheet

- a** An "Air Survey Analysis List" accompanies every report. It contains two lists of compounds determined quantitatively and a list of compounds determined semi-quantitatively.
- b** These are the detection limits for the three sub lists on the "Air Survey Analysis List" which accompanies every report. The detection limits are based on the volume of sample taken and the level of sample loading. Any compound on the list which is not reported can be assumed to be below these detection limits.
- c** TVOCs include all compounds between C3 (propane) and C16 (hexadecane)
- d** If a large group of compounds is present in the sample that is indicative of a specific source such as paint or diesel fuel, an index is reported
- e** For compounds for which we maintain calibration curves, the actual result is presented as a number (two significant figures). This is a quantitative determination.
- f** For compounds for which we do not maintain calibration curves, an estimated concentration is calculated based on the ion abundance relative to an internal standard. The calculated result is listed on the report primarily for serving as a basis for comparison between samples. Since the fragmentation efficiency is a constant for a specific compound, the calculated results can be quantitatively compared between samples. However, it is estimated that the actual result will fall between the limits listed. These limits are typically 50% to 200% of the calculated result.
- g** Where positive identification is not possible, as is the case for most hydrocarbons, a retention time is listed to provide compound identification for base line and between-sample comparisons.
- h** Where positive identification cannot be made, as much information as can be obtained about the compound is presented.
- i** Even though TDT Air Scan provides quantitative and semi-quantitative data on the over 400 compounds listed in the "Air Survey Analysis List", it is possible to positively identify and provide semiquantitative results on hundreds more.

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Terms

ppb = parts per billion = ppm x 1000

MW = Mass Spec. molecular weight

CAS = Chemical Abstracts Service identification number

ng/L = nanograms per liter. 1 nanogram = 10⁻⁹ gram

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The Consultative Air Testing Laboratory