



AIHA Proficiency Analytical Testing Programs, LLC

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8/16/2011

Charles Manning
AT Labs, A Unit Of Assay Technology
1382 Stealth St

Livermore, CA 94551

Lab ID# 101728

Dear Charles Manning,

Please find your laboratory's Industrial Hygiene Proficiency Analytical Testing (IHPAT) results for **Round 186**. It is the laboratory's responsibility to thoroughly review results and to immediately contact the AIHA Proficiency Analytical Testing Programs, LLC in writing, if any errors are found in your report.

The proficiency demonstrated by the results of this IHPAT round is valid until the close of the retest round on October 14, 2011, if the laboratory chooses to participate, or the posting of the results of the next IHPAT round on November 16, 2011. Unacceptable performance may be improved by correctly analyzing a set of retest samples. Retest Order Forms are available online at www.aihapat.org. The deadline to order a retest is August 26, 2011. Retest sample kits are mailed via USPS Mail within five days after the order deadline.

IHPAT **Round 187** sample kits will be mailed to laboratories around October 1, 2011. Your laboratory's data will be due by 11:59pm ET on November 1, 2011. The analytes for round 187 are:

- **Metals – cadmium, lead, zinc**
- **Asbestos – chrysotile**
- **Silica – coal dust**
- **Organics – methanol (MOH)**

Please handle, store and analyze your laboratory's IHPAT samples in the same manner as routine client samples. To submit results, visit the AIHA Proficiency Analytical Testing Program, LLC web page: www.aihapat.org, and click the PAT Data Entry Portal from the left navigation menu. **Always print and save the confirmation page** after submitting data via the PAT Data Entry Portal.

Your laboratory's password, needed to access the reports through the PAT Data Entry Portal, is provided in the upper right hand corner (next to your lab ID#) of the address label on the results worksheet included with your IHPAT samples.

Participants shall not describe their proficiency status in a manner that implies accreditation, certification or variations thereof. PAT results pertain only to the participant organization at the location listed on this results report.

I encourage you to contact me with any feedback, questions or if you wish to contest your results at nmugambwa@aiha.org.

Sincerely,

A handwritten signature in black ink that reads "Nmugambwa".

Natasha Mugambwa, MS
Manager, AIHA PAT Programs, LLC

Industrial Hygiene Proficiency Analytical Testing Results

This document contains three sub-reports relating to IHPAT Round 186. The first report contains your laboratory's results listed per contaminant, per sample. The second report contains your current and 2 previous test round performance respectively (where applicable), and the final report contains summary results for all laboratories for IHPAT round 186.

Testing Results for IHPAT Round 186

This part of the report contains your laboratory's results listed per contaminant, per sample.

Contaminant	Units	#	Result	Ref. Value	Lower Limit	Upper Limit	z-Score	Rating
Benzene (BNZ)	mg	1	0.0932	0.1003	0.0880	0.1125	-1.7	A
	mg	2	0.2396	0.2525	0.2206	0.2845	-1.2	A
	mg	3	1.0350	1.0827	0.9426	1.2229	-1.0	A
	mg	4	0.0575	0.0596	0.0496	0.0697	-0.6	A
O-xylene (OXY)	mg	1	0.0851	0.0836	0.0616	0.1056	0.2	A
	mg	2	0.3682	0.3702	0.2957	0.4448	-0.1	A
	mg	3	0.9780	0.9886	0.8300	1.1472	-0.2	A
	mg	4	0.4426	0.4591	0.3504	0.5678	-0.5	A
Toluene (TOL)	mg	1	0.8318	0.8504	0.7086	0.9921	-0.4	A
	mg	2	0.0868	0.0885	0.0731	0.1040	-0.3	A
	mg	3	0.2269	0.2331	0.2008	0.2654	-0.6	A
	mg	4	1.4060	1.4284	1.2227	1.6341	-0.3	A

Please note:

Reference value is the mean of the reference laboratories

*Lower limit = reference value - 3 standard deviations and Upper limit = reference value +3 standard deviations

*Z-score = (reported result - reference value)/standard deviation

*Asbestos is the exception because data are positively skewed therefore transformations are used to obtain approximately normal distributions.

A: Acceptable Analysis; U: Unacceptable Analysis

The acceptability of reported results is based on upper and lower performance limits. This is why a reported result may appear unacceptable according to z-score, but be identified as acceptable.

Overall Performance Summary Concluding with 186

The following table contains your laboratory's current and 2 previous test rounds performance respectively (where applicable). For more information in regard to the determination of proficiency, please visit: <http://www.aihapat.org/ihpat>

Sample	Round	Round Performance	Round Score	Proficiency Status -Three Round Score
Organic Solvents	184	12/12	Pass	
	185	11/12	Pass	
	186	12/12	Pass	P

Please note:

The denominators represent the total number of samples analyzed.

The numerators represent the number of acceptable results.

Pass: Round Score \geq 75% Fail: Round Score $<$ 75%

P – Proficient; NP – Non-proficient; I – Indeterminate.

A laboratory is rated proficient (P) for the associated FoT/Method(s), if the laboratory has a passing score for the applicable PT analyte class in two (2) of the last three (3) consecutive PT rounds. A laboratory is rated non-proficient (NP) for the applicable FoT/Method if the laboratory has failing scores for the associated PT analyte class in two (2) of the last three (3) consecutive PT rounds.

If a laboratory receives samples and does not report the data, the results will be treated as outliers.

