



Your Essential
Connection

5/16/2007

Charles Manning
AT Labs, A Unit Of Assay Technology
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Lab ID# 101728

Dear Charles,

Please find your laboratory's Industrial Hygiene Proficiency Analytical Testing (IHPAT) results for **Round 169**. The deadline for ordering a retest is May 30, 2007. IHPAT **Round 170** sample kits will be mailed to laboratories around July 1, 2007. Your laboratory's data will be due by 11:59pm EST on August 1, 2007. The analytes for round 170 are:

- **Metals – cadmium, chromium, lead**
- **Asbestos – amosite**
- **Silica – talc**
- **Organics – benzene(BNZ), toluene(TOL), o-xylene(OXY)**
- **Diffusive – benzene, toluene, o-xylene**

Please handle, store and analyze your laboratory's PAT samples in the same manner as routine client samples. To submit your laboratory's data, please visit the Proficiency Analytical Testing (PAT) page and click on the PAT Data Entry Portal:

<http://www.aiha.org/Content/LQAP/PT/pt.htm>

Your laboratory's password needed to access 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 submission form included with your PAT samples.

Print and save the confirmation page after submitting data via the AIHA PAT Data Entry Portal.

The AIHA Laboratory Quality Assurance Programs Policies and Application for AIHA accreditation are available on-line.

<http://www.aiha.org/Content/LQAP/documents/documents.htm>

Note: The Policies for 2007 comply with ISO/IEC 17025: 2005.

I encourage you to contact me with any feedback, questions or if you wish to contest your results at (703) 846-0797.

Sincerely,

Natasha Sekitoleko
PAT Data Specialist

Industrial Hygiene Proficiency Analytical Testing Results

This document contains three sub-reports relating to IHPAT Round 169. 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 169.

Testing Results for IHPAT Round 169

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
Chloroform (CFM)	mg	1	0.1970	0.2080	0.1584	0.2577	-0.7	A
	mg	2	1.3300	1.4146	1.1868	1.6425	-1.1	A
	mg	3	0.8040	0.8535	0.7118	0.9952	-1.0	A
	mg	4	0.5150	0.5440	0.4449	0.6430	-0.9	A
1,2-Dichloroethane (DCE)	mg	1	0.8870	0.9673	0.7662	1.1684	-1.2	A
	mg	2	0.1460	0.1569	0.1247	0.1891	-1.0	A
	mg	3	0.2970	0.3168	0.2583	0.3753	-1.0	A
	mg	4	0.6200	0.6739	0.5558	0.7920	-1.4	A
1,1,1-Trichloroethane (MCM)	mg	1	0.8670	0.9544	0.7949	1.1138	-1.6	A
	mg	2	0.1480	0.1604	0.1284	0.1923	-1.2	A
	mg	3	0.2900	0.3095	0.2554	0.3636	-1.1	A
	mg	4	0.6350	0.6880	0.5751	0.8010	-1.4	A

Please note:

Reference value is the mean of the reference laboratories
 Lower limit = reference value - 3 standard deviations
 Upper limit = reference value +3 standard deviations
 A: Acceptable Analysis; U: Unacceptable Analysis
 Z-score = (reported result - reference value)/standard deviation

Note: 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 169

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 see Policy Module 6B, Section 6B.2 for IHPAT and Policy Module 6C Section 6C.2 for ELPAT Lead-in-Air located at: <http://www.aiha.org/Content/LQAP/documents/accredpolicymods.htm>

Sample	Round	Round Performance	Round Score	Proficiency Status -Three Round Score
Organic Solvents	167	4/4	Pass	
	168	7/8	Pass	
	169	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.

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.

Performance of all Labs for IHPAT Round 169

The following table contains aggregate results for all laboratories participating in IHPAT round 169.

Contaminant	#	Ref. Value	Std Dev	RSD (%)	Total Labs	Total Acceptable	Low Outlier	High Outlier
Cadmium (CAD)	1	0.00890	0.00040	4.5	189	181	5	3
	2	0.01920	0.00096	5.0	189	182	4	3
	3	0.00530	0.00026	5.0	189	177	5	7
	4	0.01150	0.00067	5.8	189	180	6	3
Lead (LEA)	1	0.1405	0.0068	4.8	190	183	6	1
	2	0.0802	0.0036	4.5	190	188	1	1
	3	0.0307	0.0014	4.6	190	182	4	4
	4	0.0987	0.0048	4.8	190	179	8	3
Zinc (ZIN)	1	0.0805	0.0041	5.1	187	176	6	5
	2	0.1480	0.0092	6.2	187	179	5	3
	3	0.0615	0.0041	6.7	187	177	4	6
	4	0.1131	0.0066	5.9	187	176	7	4
Silica (SIL)	1	0.1021	0.0144	14.1	61	58	1	2
	2	0.0752	0.0142	18.8	61	58	1	2
	3	0.1856	0.0299	16.1	61	58	1	2
	4	0.1106	0.0194	17.5	61	60	0	1
Asbestos / Fibers (ASB)	1	342	68	20.0	743	652	79	12
	2	141	28	20.0	743	640	60	43
	3	255	51	20.0	743	642	85	16
	4	108	22	20.0	743	689	21	33
Chloroform (CFM)	1	0.2080	0.0166	8.0	153	141	6	6
	2	1.4146	0.0759	5.4	153	140	9	4
	3	0.8535	0.0472	5.5	153	144	7	2
	4	0.5440	0.0330	6.1	153	144	4	5
1,1,1-Trichloroethane (MCM)	1	0.9544	0.0532	5.6	151	140	5	6
	2	0.1604	0.0106	6.6	151	138	5	8
	3	0.3095	0.0180	5.8	151	139	5	7
	4	0.6880	0.0376	5.5	151	140	6	5
1,2-Dichloroethane (DCE)	1	0.9673	0.0670	6.9	153	145	5	3
	2	0.1569	0.0107	6.8	153	142	5	6
	3	0.3168	0.0195	6.2	153	144	3	6

	4	0.6739	0.0394	5.8	153	143	5	5