

IHPAT Round 239
 Proficiency Testing Performance for Participant ID: PAT-206698

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This report contains your organization's IHPAT Proficiency Analytical Testing results for **IHPAT Round 239**. It is the participant's responsibility to thoroughly review the information in this final report and to immediately contact the AIHA Proficiency Analytical Testing Programs, in writing, if any errors are found.

IHPAT Results

The final report is comprised of two sections relating to IHPAT Round 239. The first section contains your organization's results listed per analyte, per sample. The second section contains your current performance and performance from the two previous rounds, respectively (where applicable). Summary results for all participants for IHPAT Round 239 are located in a separate report.

Testing Results for IHPAT Round 239

This part of the report contains your organization's results listed per analyte, per sample.

Contaminant	Unit	#	Result	Ref. Value	Lower Limit	Upper Limit	z-Score	Rating
Asbestos (ASB)	f/mm ²	1	325	343	201	524	-0.3	A
	f/mm ²	2	148	146	75	241	0.1	A
	f/mm ²	3	231	362	177	612	-1.8	A
	f/mm ²	4	90.4	100	56	156	-0.6	A

Statistical Analysis Interpretation Note:

Reference value is the mean of the reference group.

Lower limit = reference value - 3 standard deviations; Upper limit = reference value + 3 standard deviations

z-Score = (reported result - reference value)/standard deviation. Note: z-Scores indicate how far a particular score is away from the mean. A - Acceptable* Analysis; U - Unacceptable Analysis; E - Excused Absence

Fiber data are positively skewed therefore transformations are used to obtain approximately normal distributions. Both the assigned values and acceptance limits are based on consensus of the reference group.

*The acceptability of reported results is based on upper and lower acceptance limits. A reported result may appear acceptable/unacceptable according to z-Score, but be identified as an outlier based upon the acceptance limits. Any non-participation or non-reporting of PAT data will result in unacceptable results (see PAT Programs Participation Policies, Section 2.1.6.2.).

Measurement uncertainty of any assigned value is also available on the respective certificate of analysis for the round.

Technical Comment: None

Overall Performance Summary Concluding with IHPAT Round 239

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

Analyte Class	Round	Round Score	Round Performance	Proficiency Status - Three Round Score
Asbestos	237	4/4	PASS	
	238	4/4	PASS	
	239	4/4	PASS	PROFICIENT

Interpretation Notes:

The denominators represent the total number of samples analyzed. The numerators represent the number of acceptable results.

Pass: Round Score greater than or equal to 75%

Fail: Round Score less than 75%

P - Proficient; NP - Non-proficient; I - Indeterminate (not enough rounds to determine proficiency)

A participant is rated proficient for the applicable IHPAT analyte group if the participant has a passing score for the applicable IHPAT analyte group in two (2) of the last three (3) consecutive PT rounds. A participant is rated non-proficient for the applicable PT analyte group if the participant has failing scores for the associated PT analyte group in two (2) of the last three (3) consecutive PT rounds.

Additional information on the following items are available in the IHPAT Scheme Plan:

Procedures used to statistically analyze the data, establish the assigned value and standard deviation for proficiency assessment, or other criteria for evaluation; details of the metrological traceability and measurement uncertainty of the assigned value; information about design and implementation of PT scheme. The Industrial Hygiene Scheme Plan is available in the PAT Portal. Measurement uncertainty of any assigned value is also available on the respective certificate of analysis for the round.

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. AIHA PAT Programs makes every effort to ensure that individual participant results are kept confidential and are not made public. Round results are only released to the participant and those entities requiring this information for accreditation, regulatory and contract purposes. New participants are made aware of the arrangement in advance of participation and consent is sought prior to the release of records for participants. PAT reports may not be reproduced or distributed unless copied in its entirety.

IHPAT samples are generated, verified, packaged, and shipped by RTI International under contract with AIHA Proficiency Analytical Testing Programs. Unless otherwise noted, sample homogeneity and stability criteria were satisfied for all samples.

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Performance of all Participants for IHPAT Round 239

 The following table contains aggregate results for all participants **IHPAT Round 239**.

Contaminant	#	Ref. Value	Ref. Std. Dev.**	RSD (%)	Uncertainty of Assigned Value	Total Participants	Total Acceptable	Low*	High*
Asbestos (ASB)	1	343	54	15.7	5.35	730	680	40	10
	2	146	28	18.9	2.75	730	694	11	25
	3	362	72	20.0	7.2	730	552	146	32
	4	100	17	16.6	1.65	730	665	14	51
Mercury (HG)	1	0.3893	0.0297	7.6	0.0086	20	18	0	2
	2	0.9152	0.0918	10.0	0.0265	20	18	1	1
	3	0.6598	0.0932	14.1	0.0269	20	19	0	1
	4	0.7569	0.0871	11.5	0.0251	20	17	2	1
Cadmium (CAD)	1	0.01868	0.00088	4.7	0.00011	116	112	3	1
	2	0.01083	0.0005	4.6	0.00006	116	110	5	1
	3	0.00688	0.00033	4.9	0.00004	116	111	4	1
	4	0.00395	0.00018	4.7	0.00002	116	112	3	1
Chromium (CHR)	1	0.1194	0.005	4.2	0.0006	116	111	3	2
	2	0.0844	0.004	4.7	0.0005	116	110	4	2
	3	0.0251	0.0013	5.1	0.0002	116	114	0	2
	4	0.0451	0.0021	4.8	0.0003	116	113	0	3
Lead (LEA)	1	0.0939	0.0046	4.9	0.0006	116	114	0	2
	2	0.0648	0.0033	5.1	0.0004	116	111	1	4
	3	0.0302	0.0018	6.0	0.0002	116	112	0	4
	4	0.1214	0.0068	5.6	0.0008	116	113	1	2
Benzene (BNZ)	1	0.0651	0.0032	4.9	0.0005	76	70	1	5
	2	0.0677	0.0032	4.7	0.0005	76	70	2	4
	3	0.5799	0.0329	5.7	0.0053	76	70	2	4
	4	0.3009	0.0153	5.1	0.0025	76	72	0	4
o-Xylene (OXY)	1	0.2376	0.0171	7.2	0.0027	76	70	3	3
	2	0.4732	0.0272	5.7	0.0043	76	68	3	5
	3	0.0556	0.0047	8.4	0.0007	76	75	0	1
	4	0.7805	0.0506	6.5	0.0081	76	67	4	5
Toluene (TOL)	1	0.8898	0.0467	5.2	0.0075	76	71	3	2
	2	0.5272	0.0245	4.6	0.0039	76	68	4	4
	3	0.3309	0.0213	6.4	0.0034	76	73	1	2
	4	0.1324	0.0074	5.6	0.0012	76	71	3	2
Airborne Particulates (PAR)	1	1.636	0.065	4.0	0.011	52	51	0	1
	2	1.352	0.054	4.0	0.009	52	52	0	0

Contaminant	#	Ref. Value	Ref. Std. Dev.**	RSD (%)	Uncertainty of Assigned Value	Total Participants	Total Acceptable	Low*	High*
	3	0.741	0.03	4.0	0.005	52	51	0	1
	4	1.972	0.079	4.0	0.013	52	51	0	1
Silica (SIL)	1	0.0533	0.0107	20.0	0.0016	66	63	2	1
	2	0.0261	0.0052	20.0	0.0008	66	60	2	4
	3	0.1196	0.0207	17.3	0.003	66	64	1	1
	4	0.0892	0.0168	18.9	0.0025	66	63	2	1

Note: **The reference group standard deviation is used but is limited to no less than 4% relative standard deviation or no greater than 20% relative standard deviation.

***Low** - number of participant results that are less than the Lower Limit; ***High** - number of participant results that are greater than the Upper Limit.

Units: Asbestos - fiber/mm²; Metals - mg; Organic Solvents - mg; Silica - mg

Reference group/participant data sets for individual methods are not separated out during statistical analysis. Methods used by participants produce comparable data based upon the proficiency samples provided. Methods represented by fewer than eight participant data points are not assessed for comparability.

Technical Comment: None.

Additional technical comments or recommendations, when available, shall be shared with participants via the web and participants shall be notified via email.

Additional information on the following items are available in the IHPAT Scheme Plan:

Procedures used to statistically analyze the data, establish the assigned value and standard deviation for proficiency assessment, or other criteria for evaluation; details of the metrological traceability and measurement uncertainty of the assigned value; information about design and implementation of PT scheme. The Industrial Hygiene Scheme Plan is available in the PAT Portal. Measurement uncertainty of any assigned value is also available on the respective certificate of analysis for the round.

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