



**Asia Pacific Laboratory Accreditation Cooperation
Proficiency Testing Program (APLAC T081)**

Organochlorine Pesticides in Tea

Final Report Summary

Jointly coordinated by:
Government Laboratory, Hong Kong (GLHK)
&
Hong Kong Accreditation Service (HKAS)

31 October 2013



Summary of Results

1. This proficiency testing program (APLAC T081) was jointly coordinated by Government Laboratory of Hong Kong (GLHK) and Hong Kong Accreditation Service (HKAS) under the auspices of the Asia Pacific Laboratory Accreditation Corporation (APLAC). The main objective of the program was to assist participating laboratories in demonstrating competence on the quantitative analysis of two incurred organochlorine pesticides, namely beta-endosulfan and endosulfan sulphate in green tea with respect to the assigned reference values.
2. A total of 65 laboratories from 33 economies enrolled in the program and 61 of them returned results to the organizers.
3. This proficiency testing program (PT) was run in parallel with the CCQM key comparison (CCQM-K95) using the same green tea sample. The Key Comparison Reference Values (KCRV) of CCQM-K95 were agreed to be used as the assigned values for evaluating the performance of participants of this PT. The standard deviations for performance assessment were calculated using the Horwitz Equation. The z-scores were used as numerical indicators to show participants' performance with respect to the assigned values in the program.
4. The z-scores of the participants are summarized as follows:

z-score	Number of Participants (Percentage)	
	Beta-endosulfan	Endosulfan Sulphate
$ z \leq 2.0$	30 (50%)	34 (57%)
$2.0 < z < 3.0$	16 (27%)	11 (19%)
$ z \geq 3.0$	14 (23%)	14 (24%)
Total:	60 (100%)	59 (100%)