

Proficiency Testing Program
Organised by
Center for Laboratory Proficiency Testing
Department of Science Service,
Ministry of Higher Education, Science, Research and Innovation, Thailand
Chemical Oxygen Demand (COD) in water

PTEN - W01 - 1901

26 June 2019

SUMMARY SHEET

Laboratory Name : Technical Training and Support Service, Center for Scientific and Technological Equipment, Walailak University

Laboratory Code : W01 - 1901 - 108

Sample	Number of results	Assigned value (\bar{x}_{pt}) (mg/L)	Standard deviation for proficiency assessment (σ_{pt}) (mg/L)	Lab's result (mg/L)		z-score
				Value	MU	
A	278	229.7	18.4	253	-	1.27
B	278	347.6	20.9	384	-	1.74

Note

- Assigned values (\bar{x}_{pt}) are the robust averages of the participant results in this round, calculated by using Algorithm A (ISO 13528: 2015).
- Standard deviations for proficiency assessment (σ_{pt}) are the target standard deviations from previous rounds and expert judgement.
- Each z-score marked with "A" is an outlier ($|z| \geq 3.0$). Therefore, laboratory which is marked with "A" shall investigate the result. Laboratory is also encouraged to review the result which has an absolute z-score value between two and three ($2.0 < |z| < 3.0$) marked with "W".
- This summary sheet shall be read in conjunction with the final report.

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