

Proficiency Testing Program  
Organised by  
Center for Laboratory Proficiency Testing  
Department of Science Service,  
Ministry of Higher Education, Science, Research and Innovation, Thailand  
Total Dissolved Solids (TDS) in water

PTEN - W07 - 1901

23 May 2019

SUMMARY SHEET

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

Laboratory Code : W07 - 1901 - 209

Sample	Number of results	Assigned value ( $x_{pt}$ ) (mg/L)	Standard deviation for proficiency assessment ( $\sigma_{pt}$ ) (mg/L)	Lab's result (mg/L)		z-score
				Value	MU	
A	323	143.7	14.4	134	-	-0.67
B	324	504.5	25.2	485	-	-0.77

**Note**

1. Assigned values ( $x_{pt}$ ) are the robust averages of the participant results in this round, calculated by using Algorithm A (ISO 13528: 2015).
2. Standard deviations for proficiency assessment ( $\sigma_{pt}$ ) are the target standard deviations from previous rounds and expert judgement.
3. 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".
4. This summary sheet shall be read in conjunction with the final report.

Reported by

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