



SUMMARY REPORT

PTOF-0564



Final report

2021 Proficiency Testing Program of Chemical Properties in Organic Fertilizer

Organized by System Research of Soil and Water Quality Sub-group,
Agricultural Chemistry Group,
Agricultural Production Sciences Research and Development Division,
Department of Agriculture

Report No : 1/2021

Participant (TH) : ศูนย์เครื่องมือวิทยาศาสตร์และเทคโนโลยี มหาวิทยาลัยวลัยลักษณ์

(EN) : Center for Scientific and Technological Equipment, Walailak University

Participant ID : 64-OF-36

Parameter	Sample ID	No. of reported results	Laboratory Results		z score	Assigned Value (Xpt)	Standard Deviation for Proficiency Assessment (Opt)
			Result	MU			
Total nitrogen ; TN (%)	0564-01	62	1.40	-	1.80	1.31	0.05
Total phosphorus, as P ₂ O ₅ (%)	0564-01	59	5.85	-	-1.11	6.06	0.19
Total potassium, as K ₂ O (%)	0564-01	57	0.90	-	0.22	0.88	0.09
Organic matter (%)	0564-01	64	23.06	-	0.35	22.89	0.49

- Note :
1. Assigned values are calculated from the results reported by participants in this round, according to Algorithm A (ISO 13528: 2015) while total potassium is determined by the system research of fertilizer quality sub-group, Department of Agriculture.
 2. Standard deviations for proficiency assessment (Opt) : are the predicted standard deviation calculated from the predicted relative standard deviation of reproducibility (ISO 13528: 2015) while total potassium is normalized InterQuartile Range (nIQR), calculated from the results of participants in this round.
 3. Laboratory whose z score marked with "A" means unacceptable result (| z score | ≥ 3.0) and z score marked with "W" means warning result (2.0 < | z score | < 3.0). Laboratory shall review and investigate result.
 4. This summary sheet shall be read in conjunction with the final report, available at <https://forms.gle/Yfp8bA9KZC8sjNAG6>.

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