



**ΙΝΣΤΙΤΟΥΤΟ ΓΕΩΛΟΓΙΚΩΝ  
ΚΑΙ ΜΕΤΑΛΛΕΥΤΙΚΩΝ ΕΡΕΥΝΩΝ (Ι.Γ.Μ.Ε.)**

## **ΒΙΟΕΚΧΥΛΙΣΗ ΑΠΟΡΡΙΜΜΑΤΩΝ ΔΗΜΟΣΙΟΥ ΜΕΤΑΛΛΕΙΟΥ ΚΙΡΚΗΣ**

από

**Βασιλική Αγγελάτου, Χημικό Μηχανικό – Δ.Τ.Ε.Μ.  
Ευάγγελο Δρόσο, Δρ. Χημικό Μηχανικό – Δ.Τ.Ε.Μ.**



**Έργο (ΜΕΟΠΥ /Κωδ. ΟΠΣ: 350969) :**  
**«ΕΡΕΥΝΑ ΚΑΙ ΑΞΙΟΛΟΓΗΣΗ  
ΕΠΙΛΕΓΜΕΝΩΝ ΜΗ ΕΝΕΡΓΕΙΑΚΩΝ  
ΟΡΥΚΤΩΝ ΠΡΩΤΩΝ ΥΛΩΝ ΤΗΣ ΧΩΡΑΣ,  
ΜΕ ΣΤΟΧΟ ΤΗ ΒΙΩΣΙΜΗ ΛΕΙΤΟΥΡΓΙΑ  
ΤΗΣ ΕΞΟΡΥΚΤΙΚΗΣ ΒΙΟΜΗΧΑΝΙΑΣ»**

**Υπόεργο 6:**  
**« ΕΦΑΡΜΟΓΗ ΣΥΓΧΡΟΝΩΝ  
ΤΕΧΝΟΛΟΓΙΩΝ - ΜΕΘΟΔΟΛΟΓΙΩΝ ΓΙΑ  
ΤΗΝ ΕΡΕΥΝΑ ΚΑΙ ΑΞΙΟΛΟΓΗΣΗ  
ΕΠΙΛΕΓΜΕΝΩΝ ΔΕΥΤΕΡΟΓΕΝΩΝ  
ΠΗΓΩΝ ΟΡΥΚΤΩΝ ΠΡΩΤΩΝ ΥΛΩΝ»**



**ΕΘΝΙΚΟ  
ΣΤΡΑΤΗΓΙΚΟ  
ΠΛΑΙΣΙΟ ΑΝΑΦΟΡΑΣ  
Ε.Σ.Π.Α. 2007-2013**

**ΕΠΙΧΕΙΡΗΣΙΑΚΟ  
ΠΡΟΓΡΑΜΜΑ  
ΑΝΤΑΓΩΝΙΣΤΙΚΟΤΗΤΑ &  
ΕΠΙΧΕΙΡΗΜΑΤΙΚΟΤΗΤΑ**



Αθήνα, Σεπτέμβριος 2016



## ΙΝΣΤΙΤΟΥΤΟ ΓΕΩΛΟΓΙΚΩΝ ΚΑΙ ΜΕΤΑΛΛΕΥΤΙΚΩΝ ΕΡΕΥΝΩΝ (Ι.Γ.Μ.Ε.)

Ν.Π.Ι.Δ. ΕΠΟΠΤΕΥΟΜΕΝΟ ΑΠΟ ΤΟ ΥΠΟΥΡΓΕΙΟ ΠΕΡΙΒΑΛΛΟΝΤΟΣ ΚΑΙ ΕΝΕΡΓΕΙΑΣ  
(Ν. 272/76 και ΚΥΑ 12935-ΦΕΚ 1247/Β/24-6-2015)

Σπ. Λούη 1, Ολυμπιακό Χωριό, Αχαρνάι Τ.Κ. 13677, Τηλ. 213-1337000-3, Fax 213-1337015

**Ε.Π.Α.Ε.**

Επιχειρησιακό Πρόγραμμα  
«Ανταγωνιστικότητα &  
Επιχειρηματικότητα»

**ΕΥΡΩΠΑΪΚΗ ΕΠΙΤΡΟΠΗ**

ΕΥΡΩΠΑΪΚΟ ΤΑΜΕΙΟ  
ΠΕΡΙΦΕΡΕΙΑΚΗΣ ΑΝΑΠΤΥΞΗΣ



### «ΒΙΟΕΚΧΥΛΙΣΗ ΑΠΟΡΡΙΜΜΑΤΩΝ ΔΗΜΟΣΙΟΥ ΜΕΤΑΛΛΕΙΟΥ ΚΙΡΚΗΣ»

Από

**Βασιλική Αγγελάτου, Χημικό Μηχανικό – Δ.Τ.Ε.Μ.**

**Ευάγγελο Δρόσο, Δρ. Χημικό Μηχανικό - Δ.Τ.Ε.Μ.**

Η παρούσα μελέτη εκπονήθηκε στο πλαίσιο της Πράξης 350969 του ΕΣΠΑ 2007-2013 με τίτλο "ΕΡΕΥΝΑ ΚΑΙ ΑΞΙΟΛΟΓΗΣΗ ΕΠΙΛΕΓΜΕΝΩΝ ΜΗ ΕΝΕΡΓΕΙΑΚΩΝ ΟΡΥΚΤΩΝ ΠΡΩΤΩΝ ΥΛΩΝ ΤΗΣ ΧΩΡΑΣ, ΜΕ ΣΤΟΧΟ ΤΗ ΒΙΩΣΙΜΗ ΛΕΙΤΟΥΡΓΙΑ ΤΗΣ ΕΞΟΡΥΚΤΙΚΗΣ ΒΙΟΜΗΧΑΝΙΑΣ (ΜΕΟΠΥ)" και ειδικότερα στο πλαίσιο του Υποέργου 6 αυτής με τίτλο «ΕΦΑΡΜΟΓΗ ΣΥΓΧΡΟΝΩΝ ΤΕΧΝΟΛΟΓΙΩΝ – ΜΕΘΟΔΟΛΟΓΙΩΝ ΓΙΑ ΤΗΝ ΕΡΕΥΝΑ ΚΑΙ ΑΞΙΟΛΟΓΗΣΗ ΕΠΙΛΕΓΜΕΝΩΝ ΔΕΥΤΕΡΟΓΕΝΩΝ ΠΗΓΩΝ ΟΡΥΚΤΩΝ ΠΡΩΤΩΝ ΥΛΩΝ». Η Πράξη «ΜΕΟΠΥ» συγχρηματοδοτήθηκε από το Ευρωπαϊκό Ταμείο Περιφερειακής Ανάπτυξης (Ε.Τ.Π.Α.), το οποίο συμβάλλει στην άμβλυνση των ανισοτήτων μεταξύ των περιφερειών της Ευρωπαϊκής Ένωσης και από το Ελληνικό Δημόσιο.

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ΙΝΣΤΙΤΟΥΤΟ ΓΕΩΛΟΓΙΚΩΝ & ΜΕΤΑΛΛΕΥΤΙΚΩΝ ΕΡΕΥΝΩΝ (Ι.Γ.Μ.Ε.)

**Αθήνα, Σεπτέμβριος 2016**  
**ΟΜΑΔΑ ΕΡΓΑΣΙΑΣ**

Για την υλοποίηση των εργασιών που περιγράφονται στην παρούσα μελέτη συνεργάστηκαν μέλη του επιστημονικού και τεχνικού προσωπικού του Ινστιτούτου Γεωλογικών και Μεταλλευτικών Ερευνών, ως ακολούθως:

<b>Όνομα</b>	<b>Ειδικότητα / Αρμοδιότητες / Εργασίες</b>
<b>Επιστημονικό Προσωπικό</b>	
Αγγελάτου Βασιλική	Χημικός Μηχανικός, Δ.Τ.Ε.Μ./Υπεύθυνη Υποέργου, Υπεύθυνη Θεματικής Ενότητας, ΔΤΕΜ
Δρόσος Ευάγγελος	Δρ.Χημικός Μηχανικός, ΔΤΕΜ
Μιχαήλ Κωνσταντίνος	Δρ.Γεωλόγος, Π.Μ.Κ.Μ-Θ
Ξηρόκωστας Νικόλαος	Δρ Χημικός Μηχανικός, ΔΑΝΕ
Οικονόμου Γιώργος	Δρ Γεωλόγος, Δ.Ο.Π.
<b>Τεχνικό Προσωπικό</b>	
Βασιλάκης Δημήτρης	Δειγματοληψία/ Εκτέλεση δοκιμών
Τσιτσής Αναστάσιος	Δειγματοληψία/ Προετοιμασία δειγμάτων/ Εκτέλεση δοκιμών
Πατσής Παντελής	Παρασκευάσματα μικροσκοπίου
Τσέλος Θανάσης	Δειγματοληψία
<b>Εξωτερικοί Συνεργάτες</b>	
Μπαντούνα Ιωάννα (Συμβασιούχος, Αρ. Σύμβασης 2677/2014)	Γεωλόγος / Πετρογραφική εξέταση

# ΠΑΡΑΡΤΗΜΑ Α

## ΔΟΚΙΜΕΣ ΒΙΟΕΚΧΥΛΙΣΗΣ

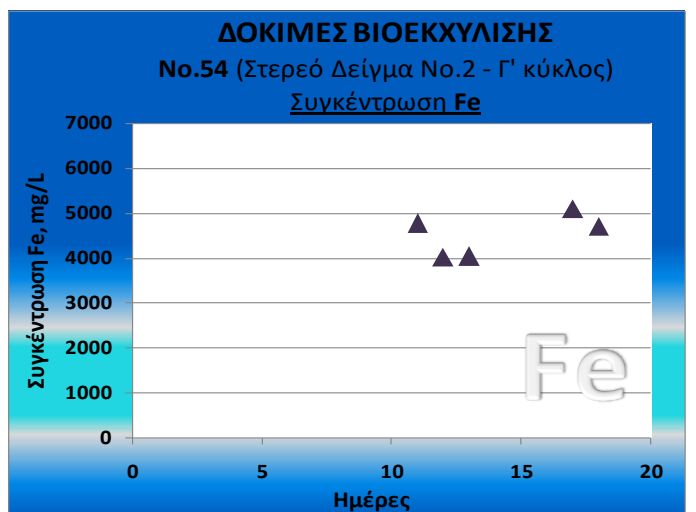
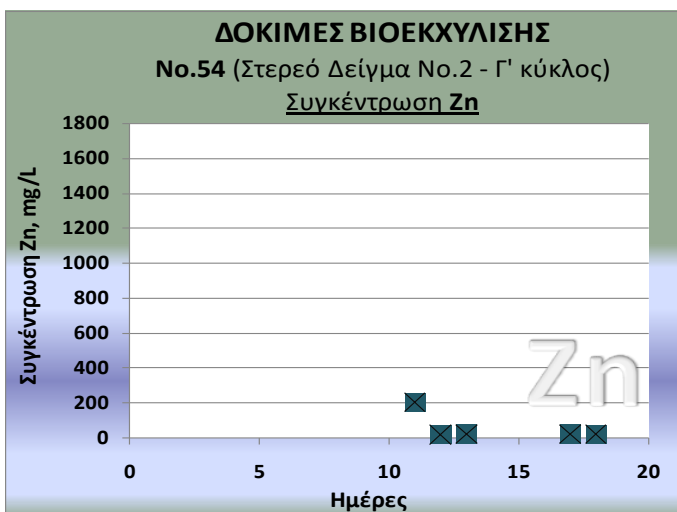
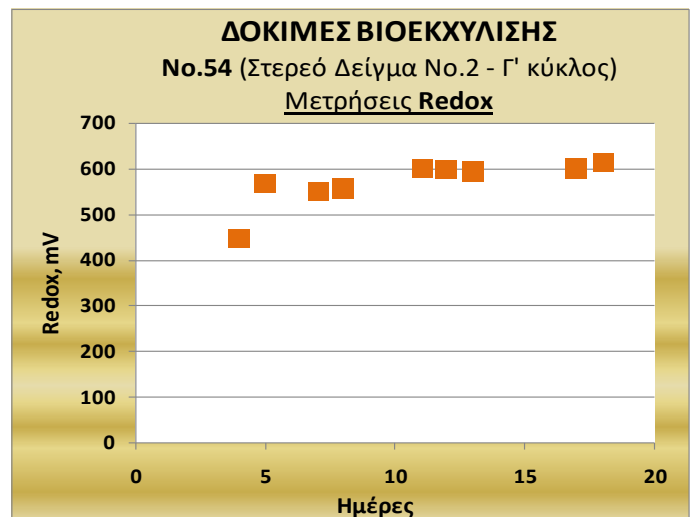
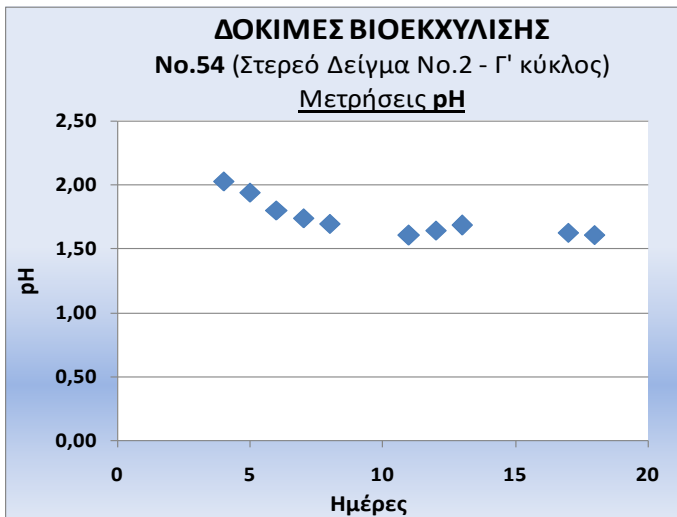
### ΓΡΑΦΗΜΑΤΑ ΜΕΤΡΗΣΕΩΝ ΚΑΙ ΑΝΑΛΥΣΕΩΝ

# **ΔΟΚΙΜΕΣ 2014**

**ΣΤΕΡΕΟ ΔΕΙΓΜΑ Νο.2**

**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 2,5%**

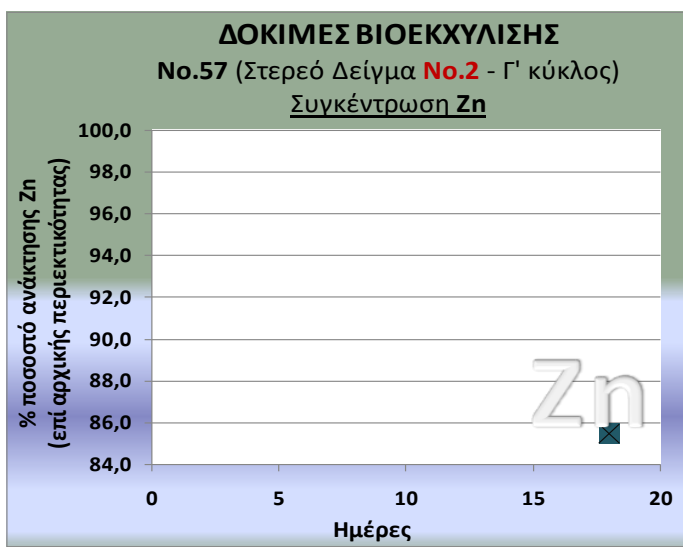
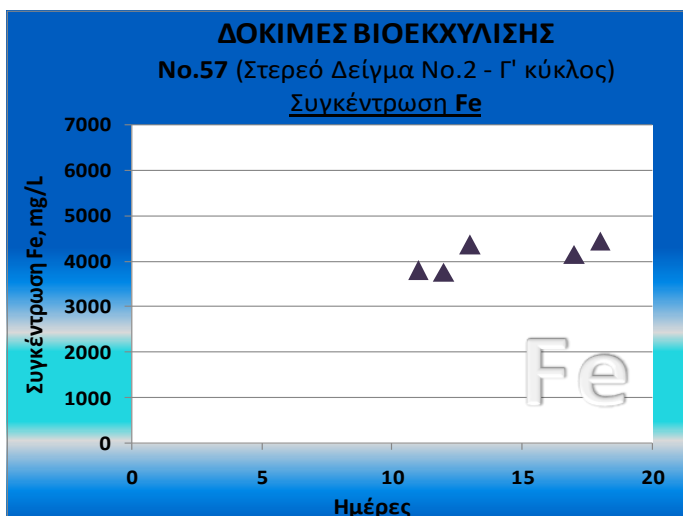
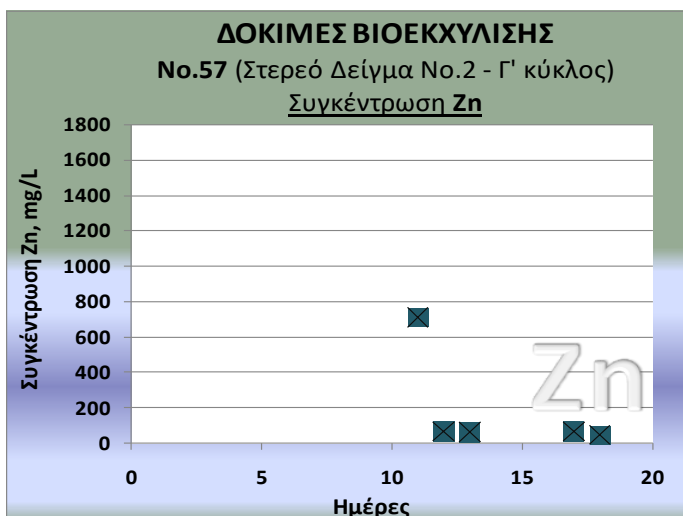
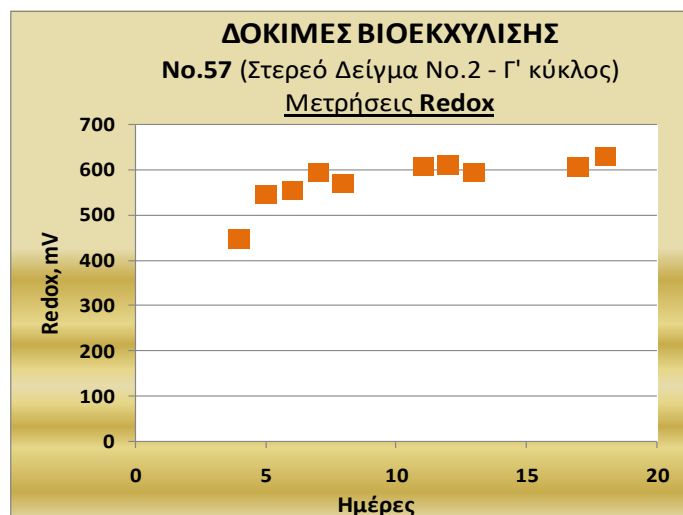
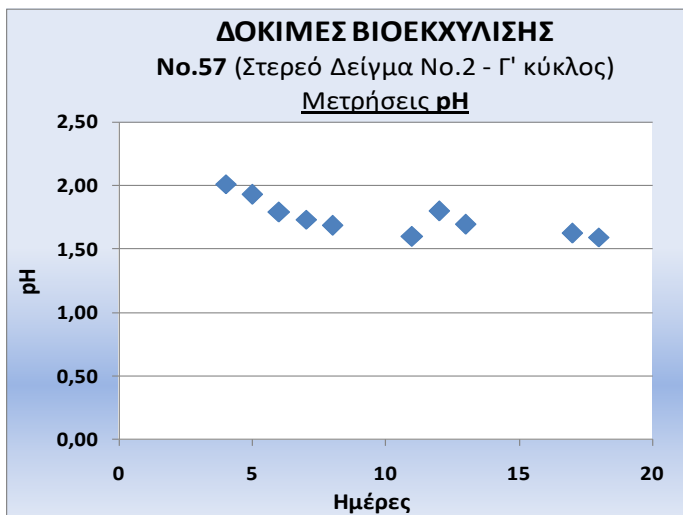
**Α' Καλλιέργεια – Γ' Μεταφορά**



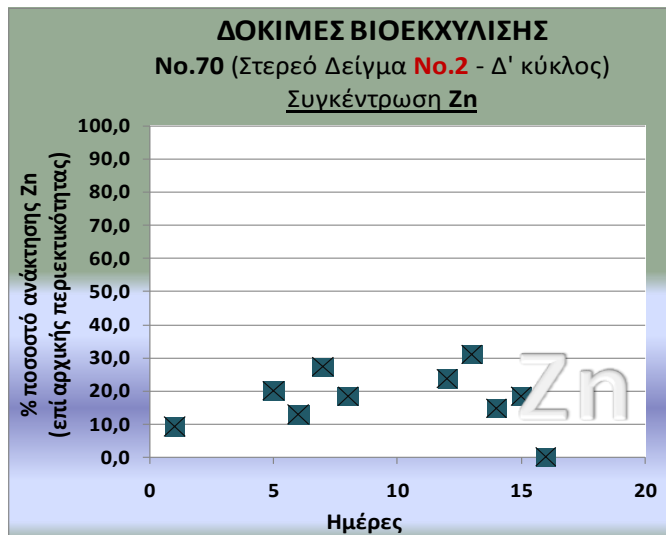
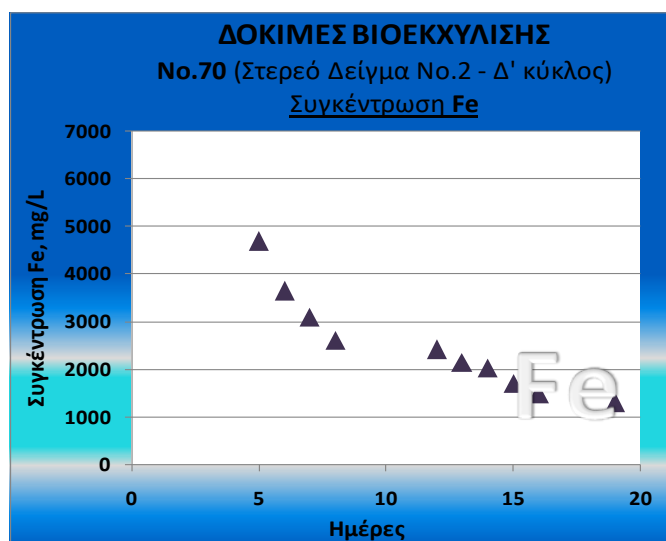
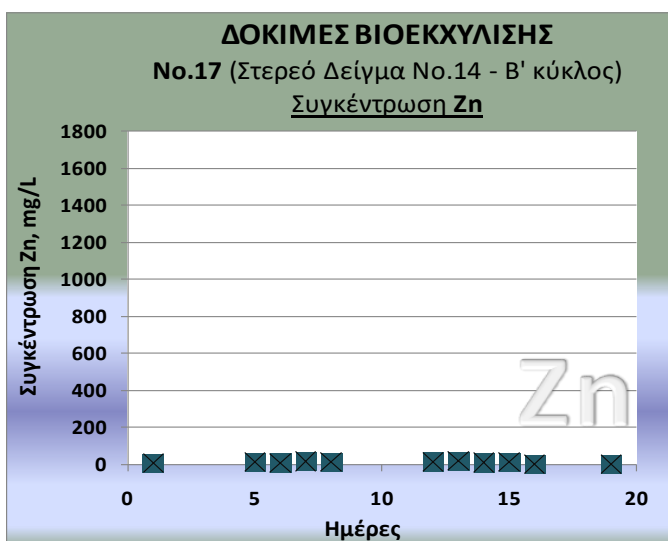
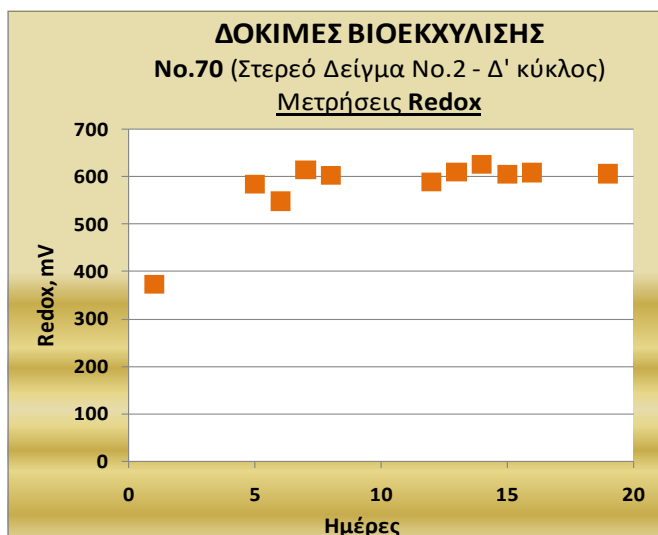
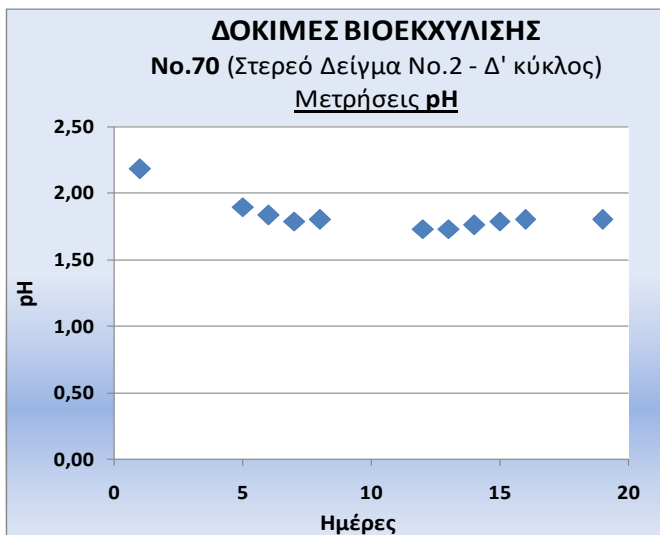
**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.2**

**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 2,5%**

**B' Καλλιέργεια - Γ' Μεταφορά**

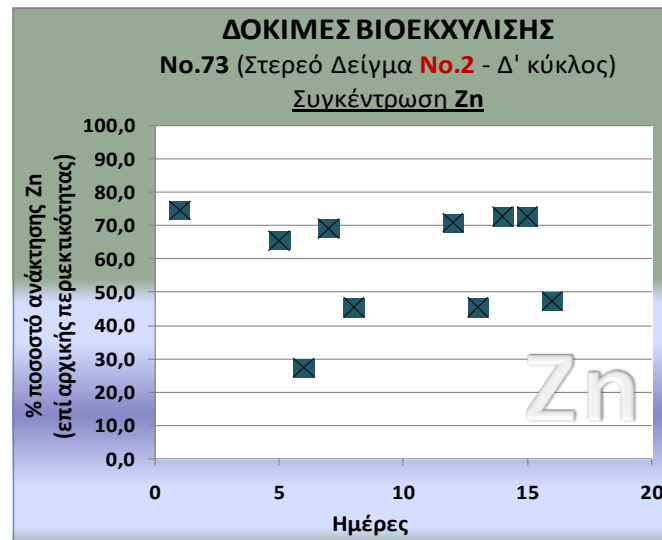
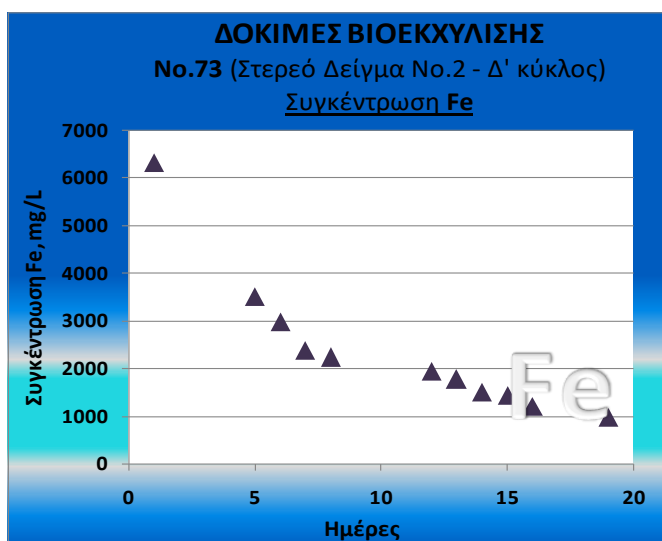
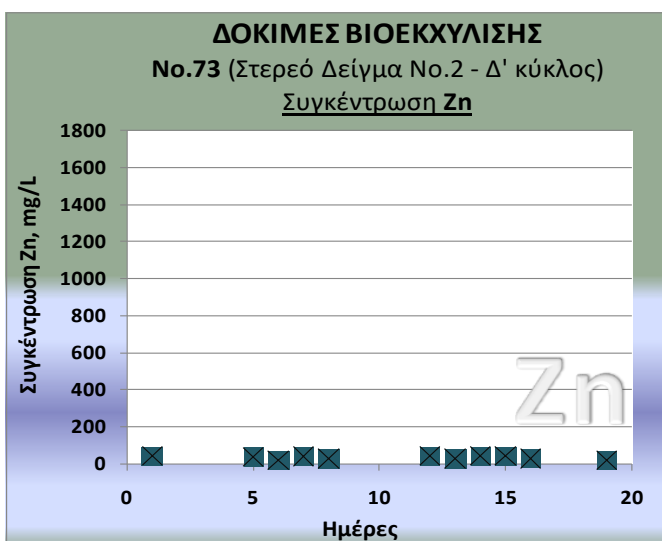
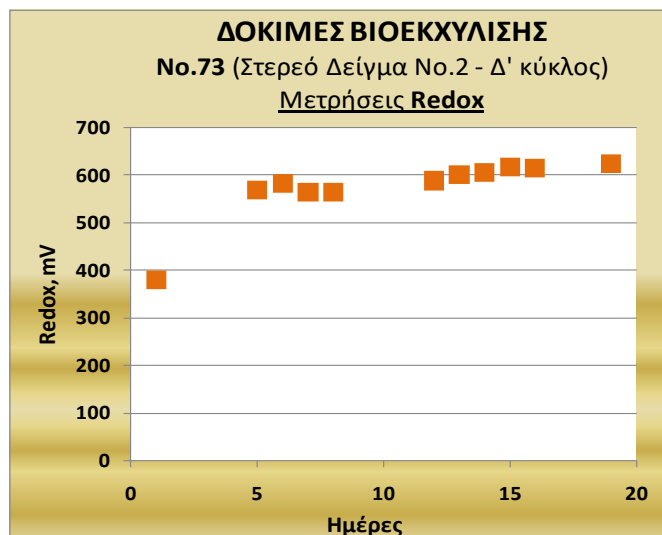
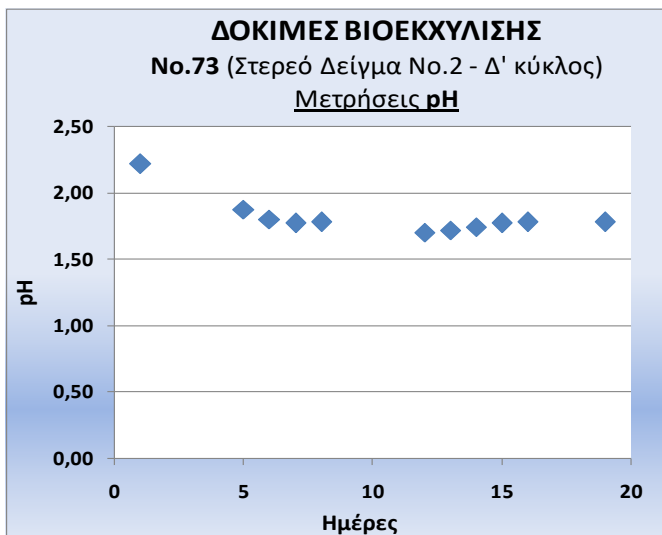


**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.2**  
**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 2,5%**  
**Α' Καλλιέργεια - Δ' Μεταφορά**



**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.2**  
**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 2,5%**  
**B' Καλλιέργεια - Δ' Μεταφορά**

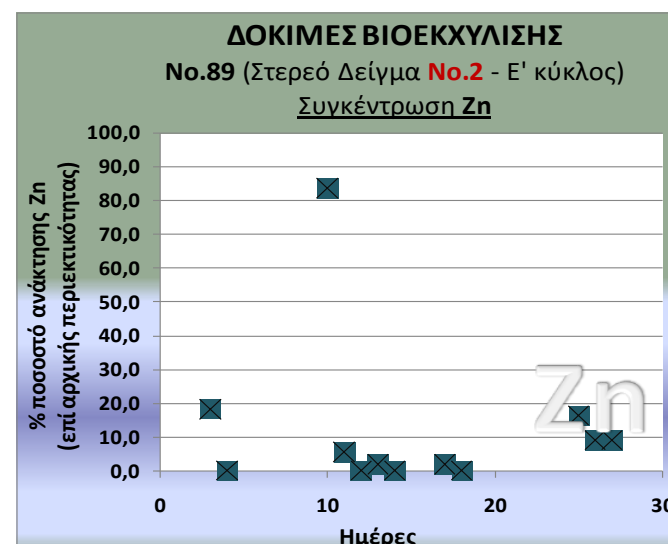
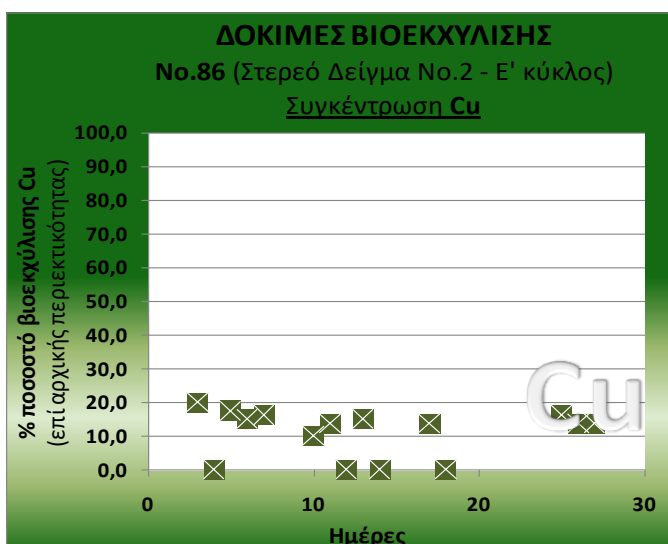
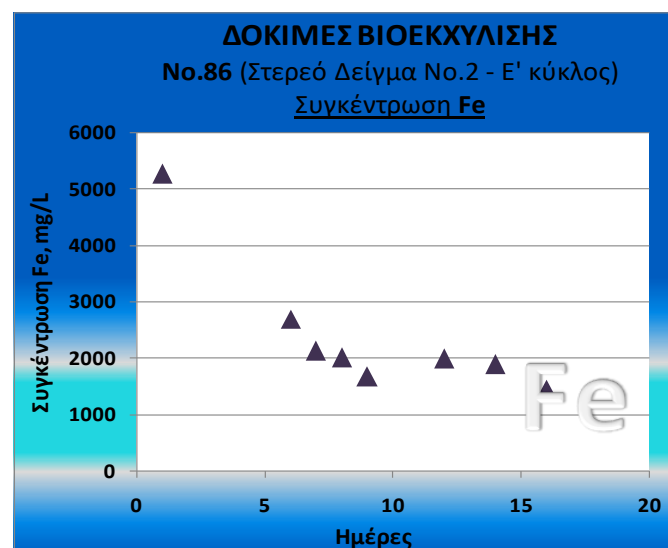
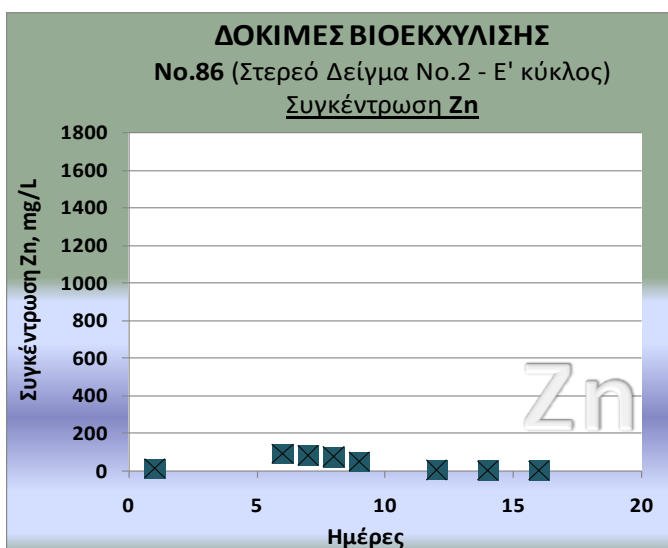
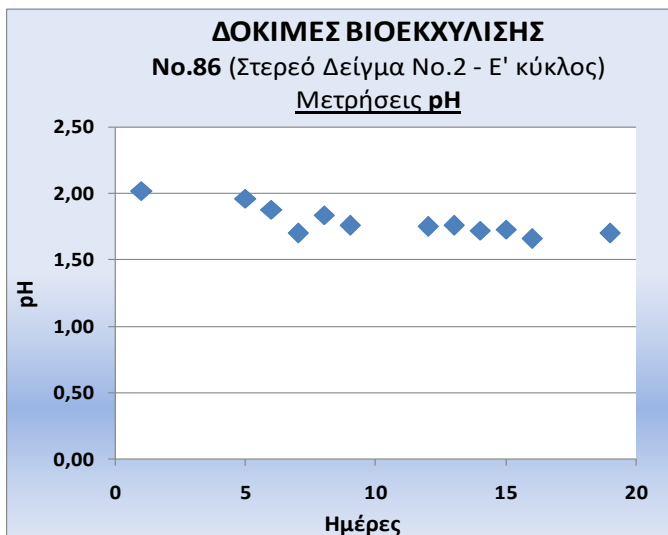




**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.2**

**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 2,5%**

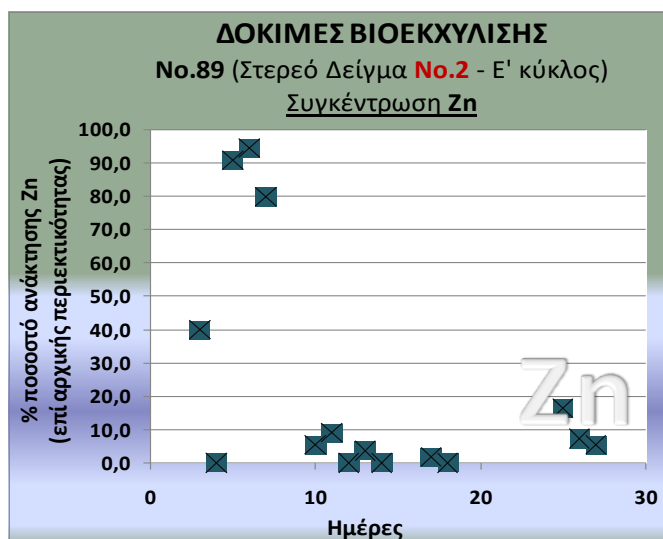
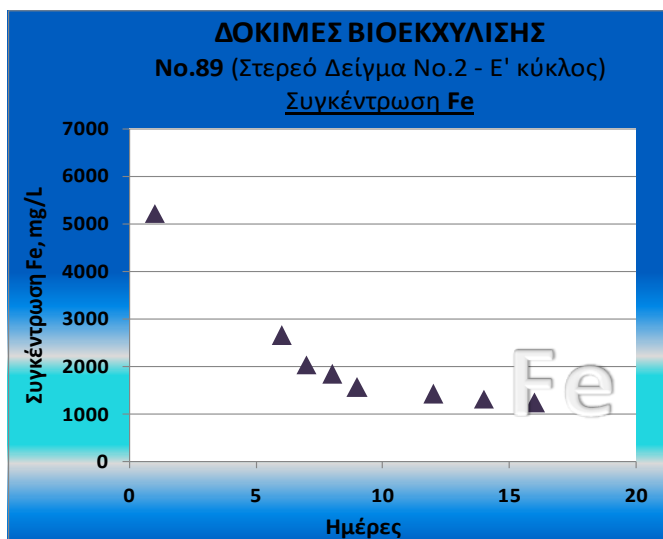
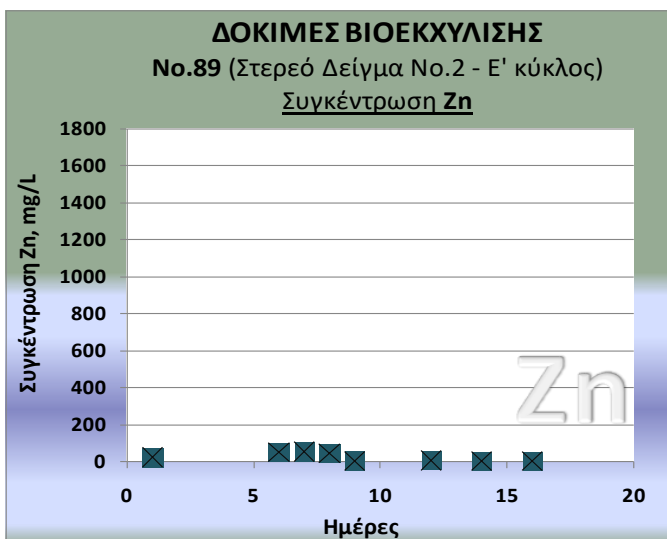
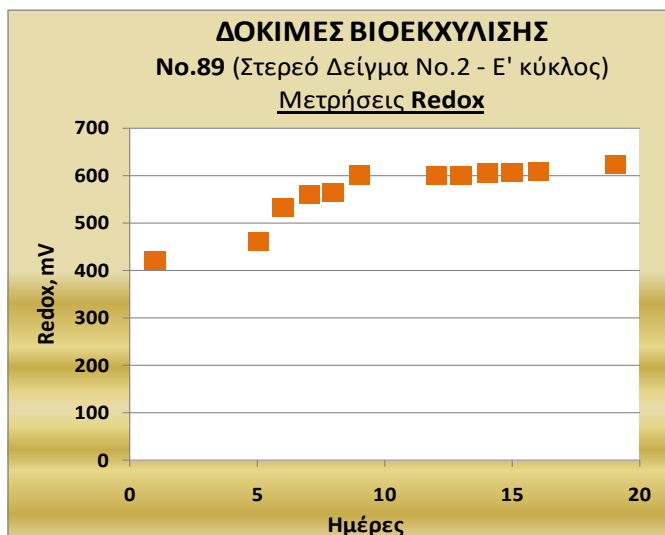
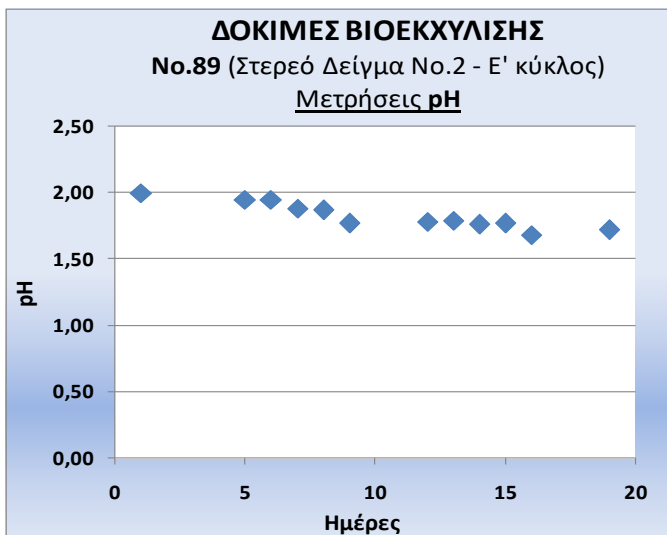
**A' Καλλιέργεια - E' Μεταφορά**



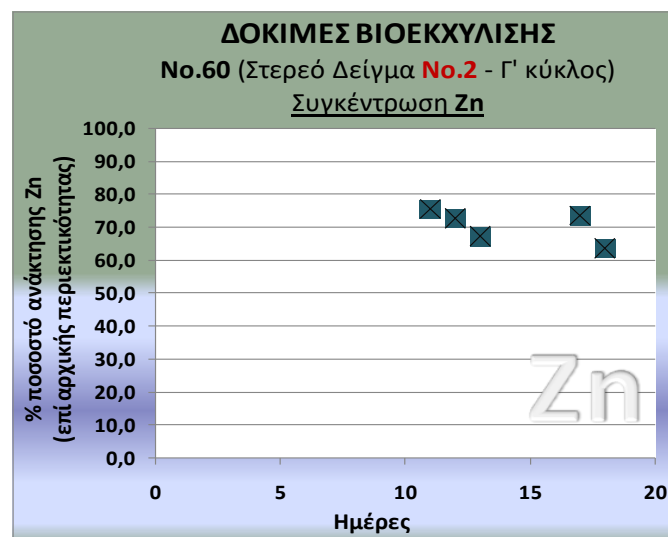
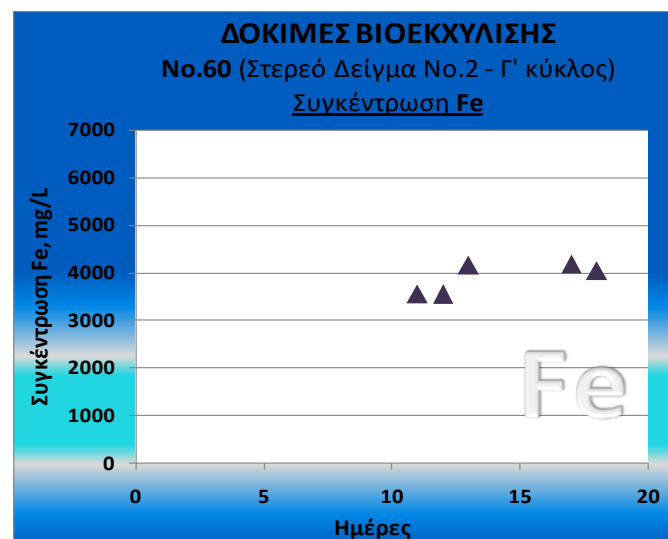
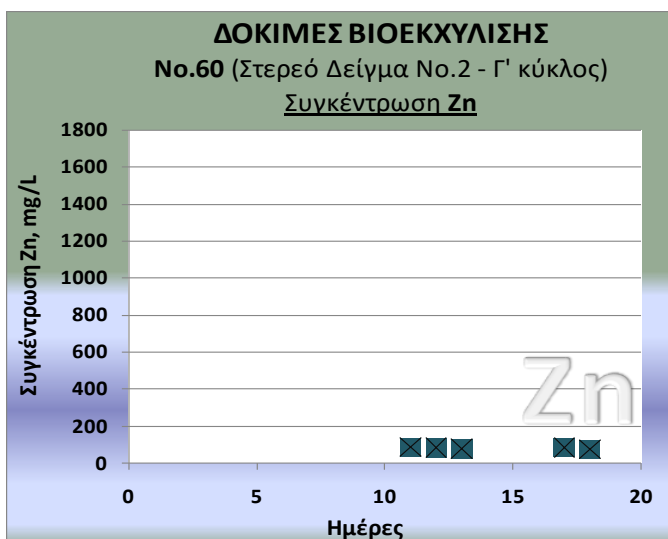
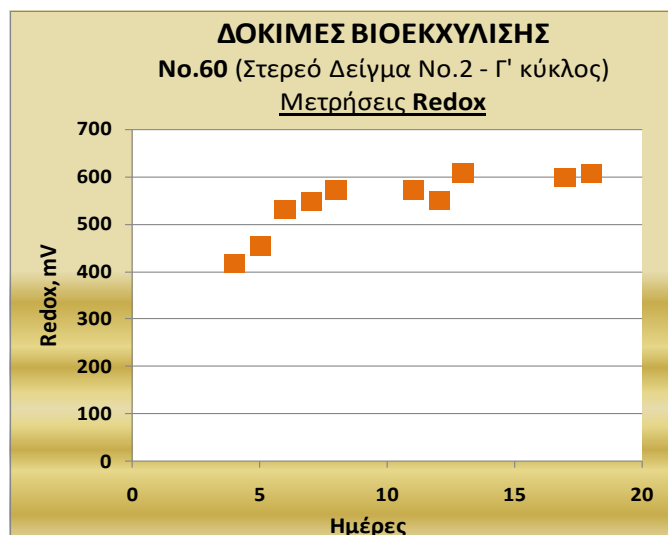
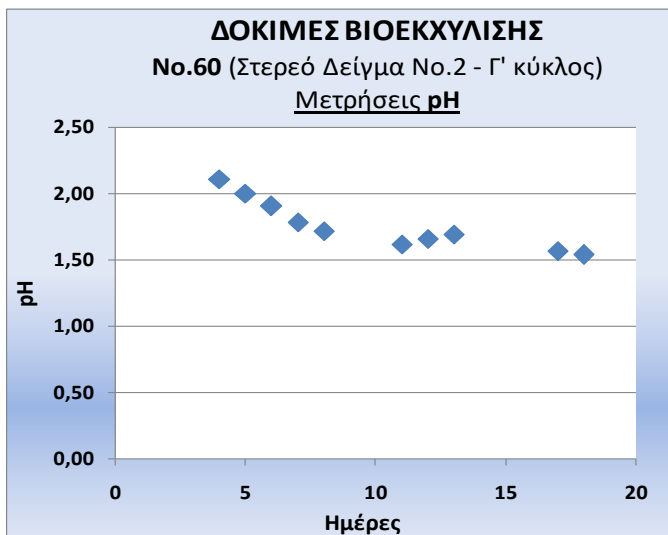
**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.2**

**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 2,5%**

**Β' Καλλιέργεια - Ε' Μεταφορά**



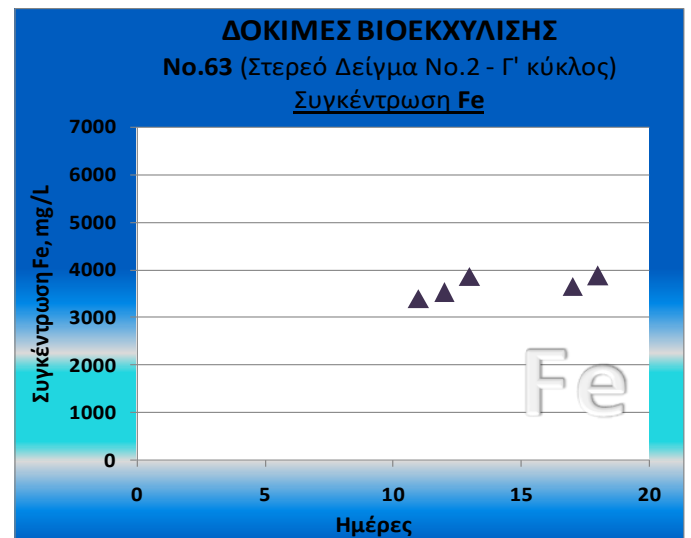
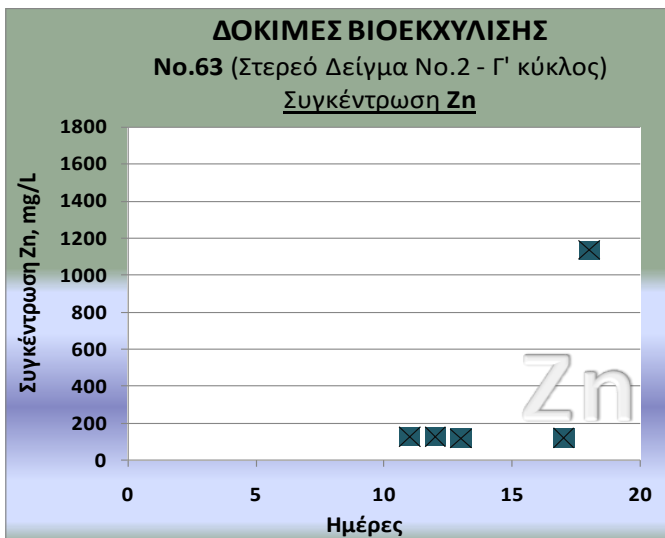
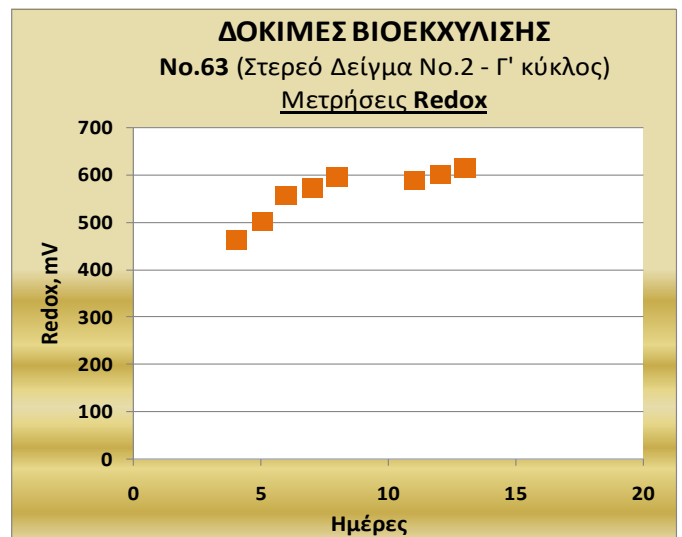
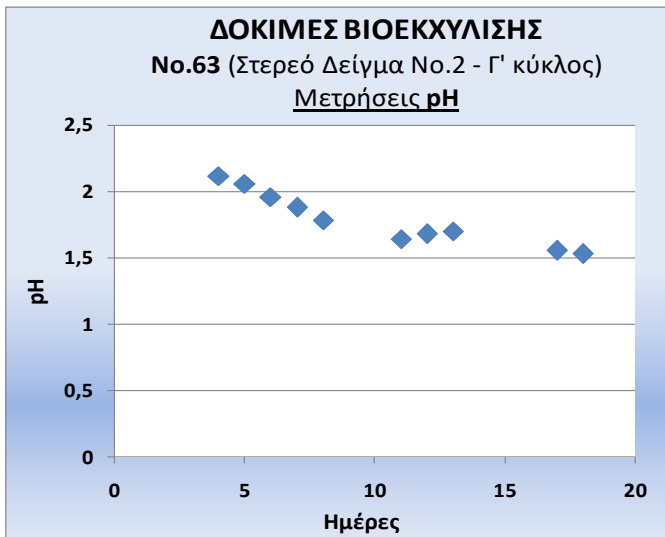
**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.2**  
**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 5%**  
**A' Καλλιέργεια - Γ' Μεταφορά**



**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.2**

**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 5%**

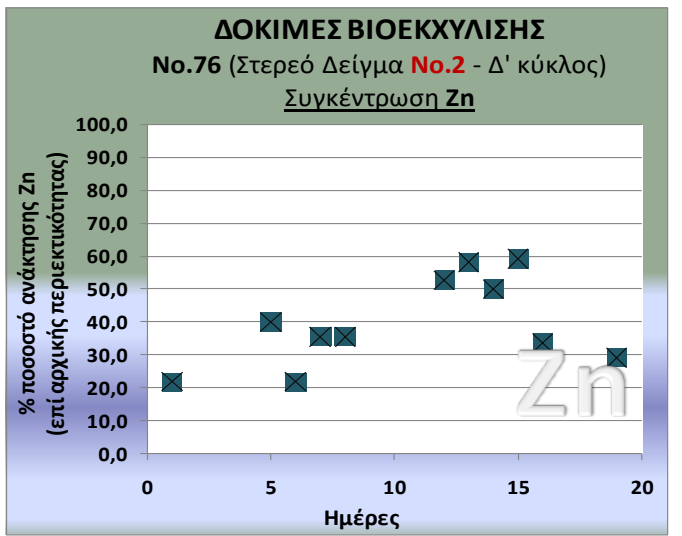
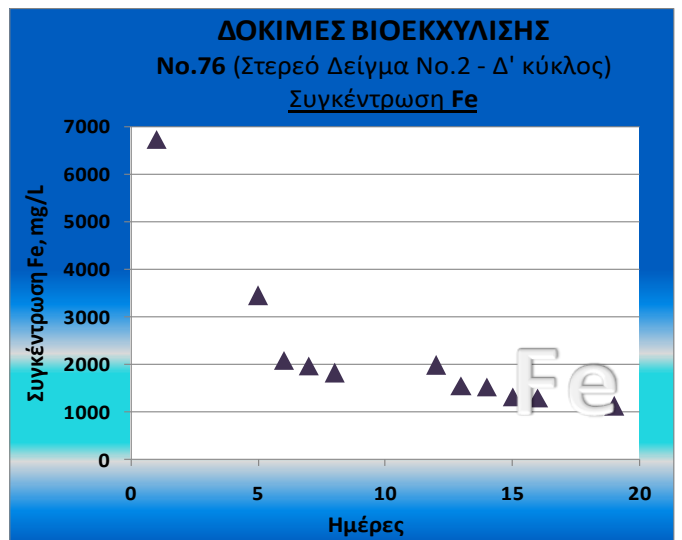
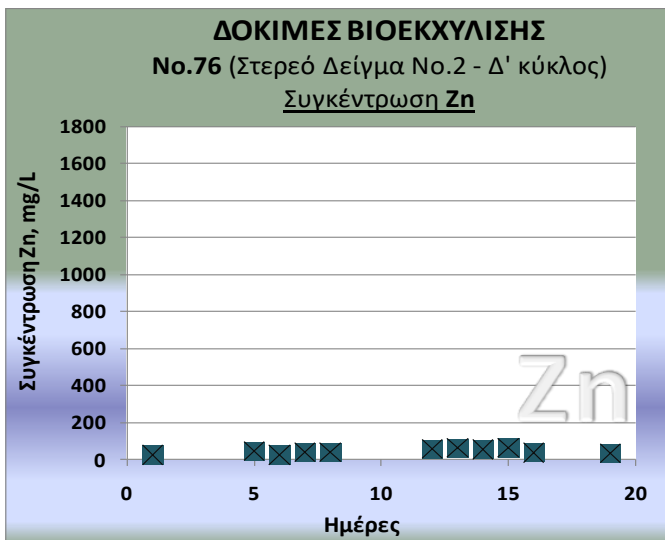
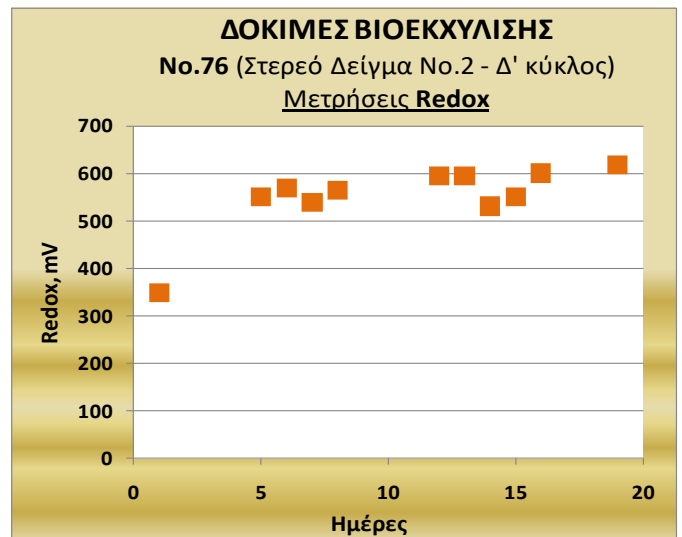
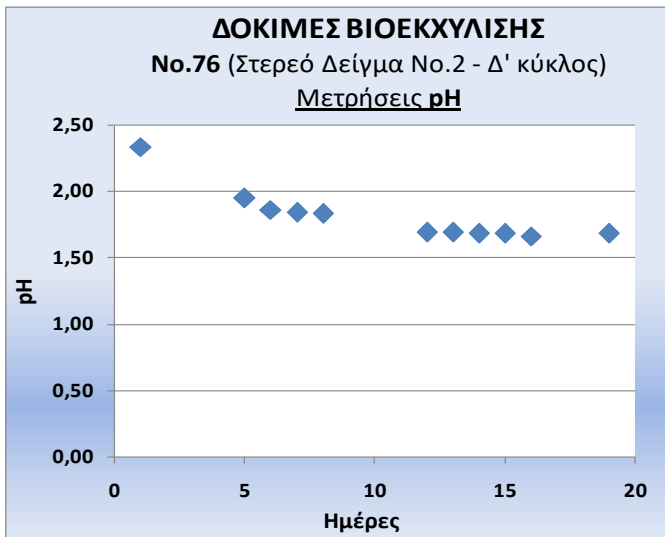
**B' Καλλιέργεια - Γ' Μεταφορά**



**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.2**

**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 5%**

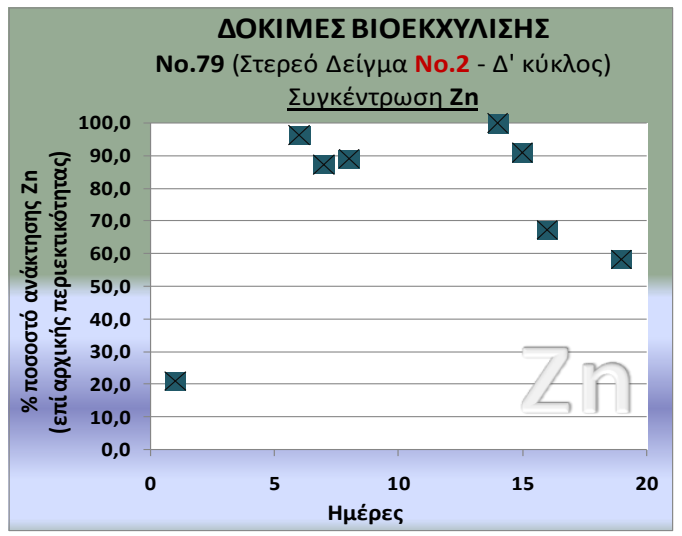
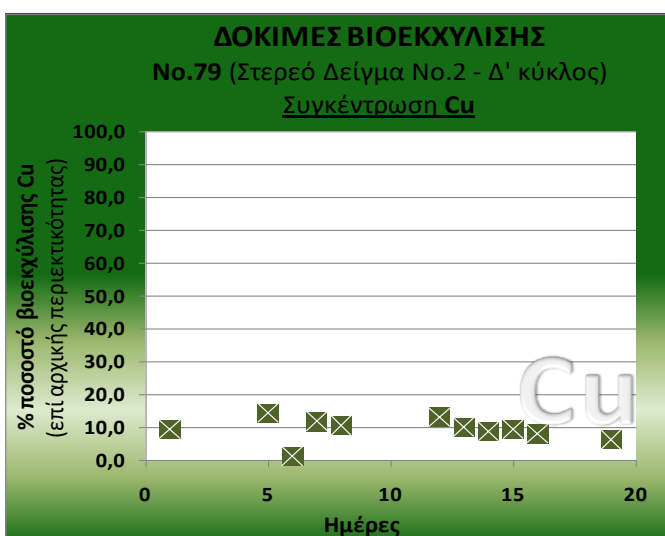
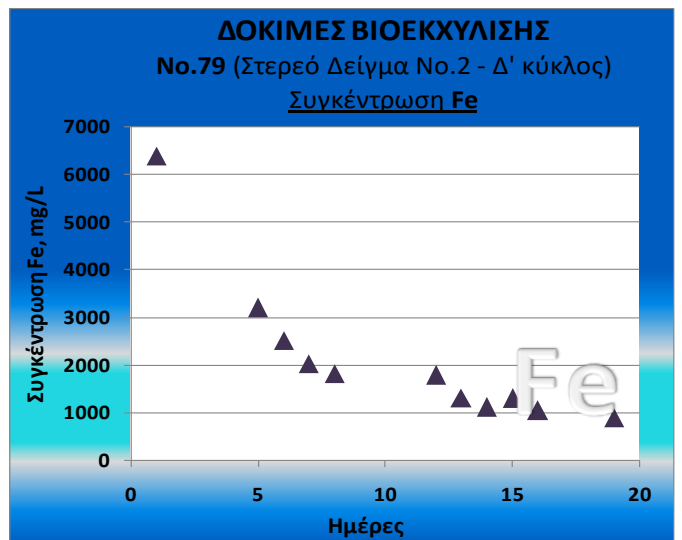
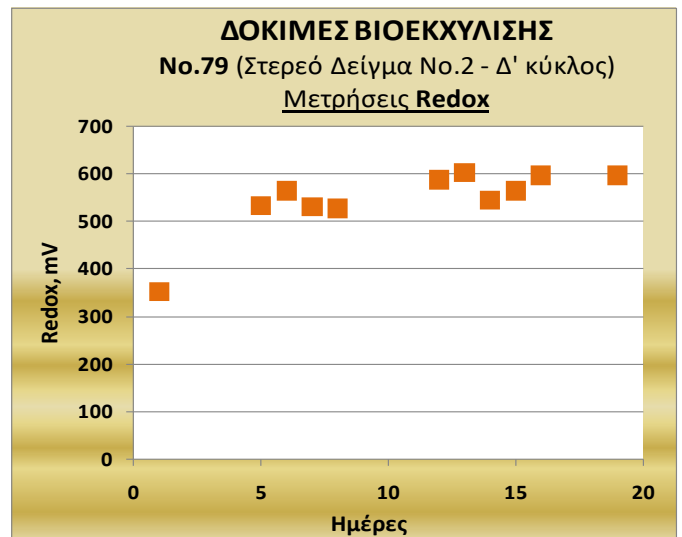
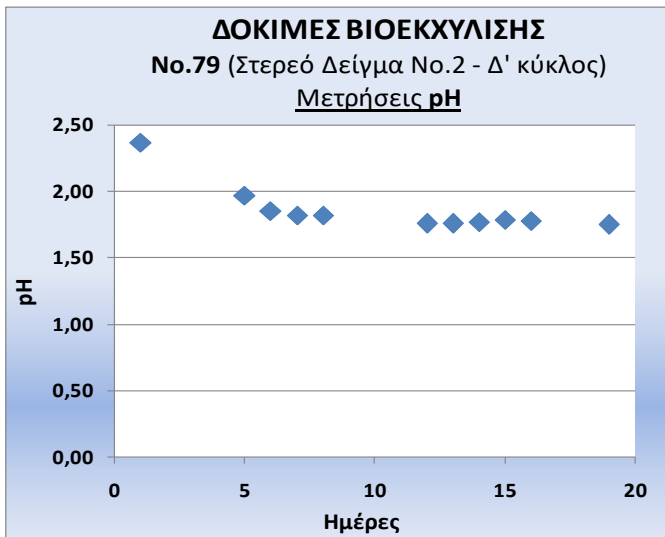
**A' Καλλιέργεια - Δ' Μεταφορά**



**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.2**

**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 5%**

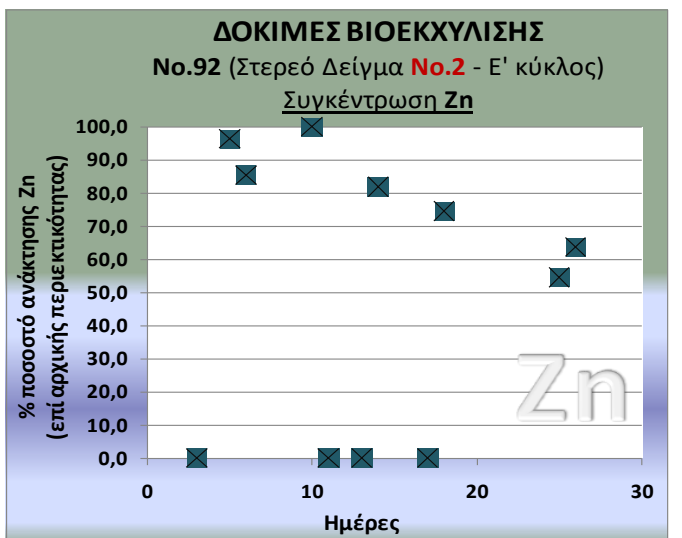
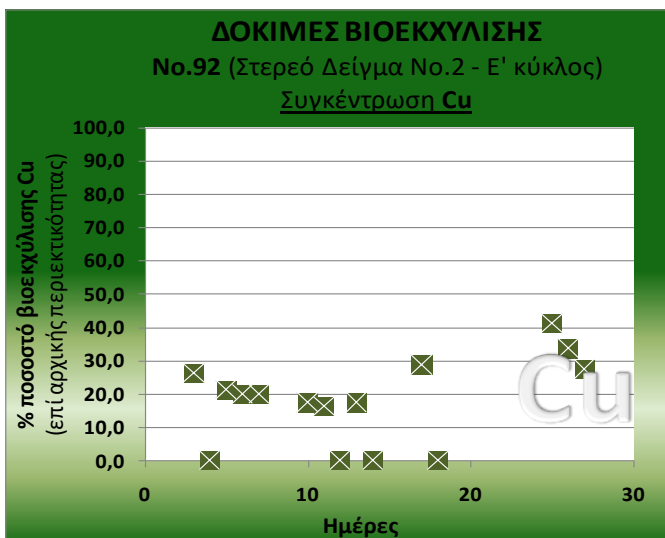
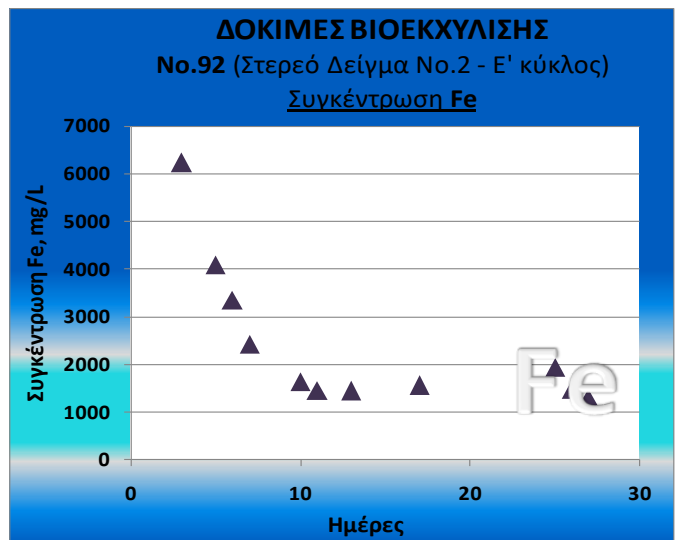
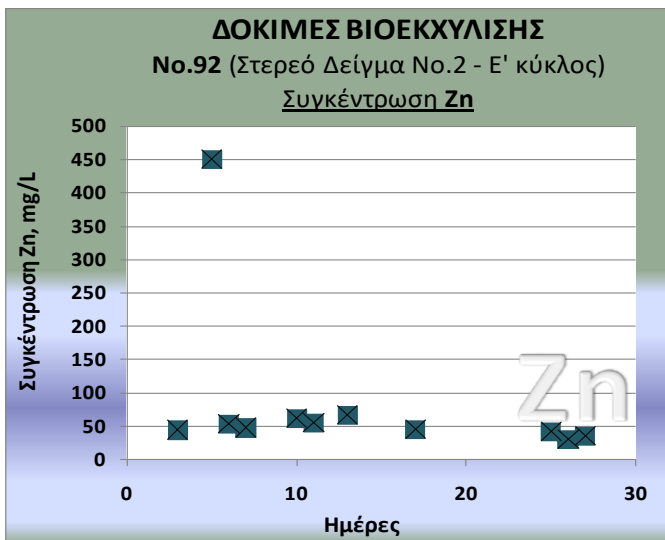
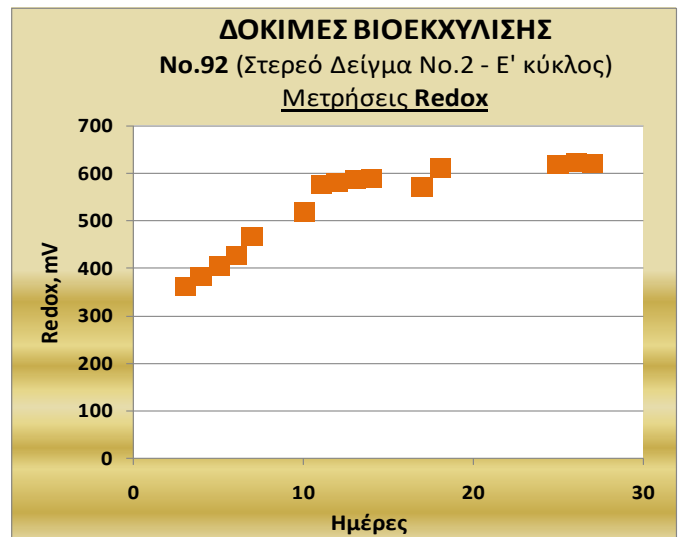
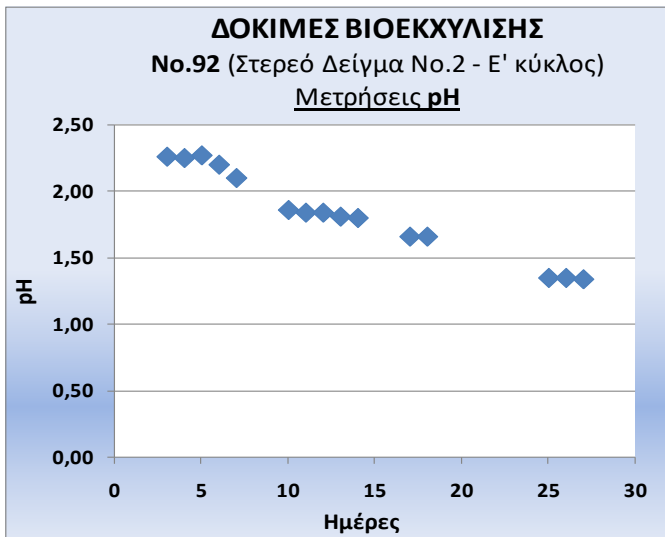
**B' Καλλιέργεια - Δ' Μεταφορά**



**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.2**

**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 5%**

**A' Καλλιέργεια - E' Μεταφορά**

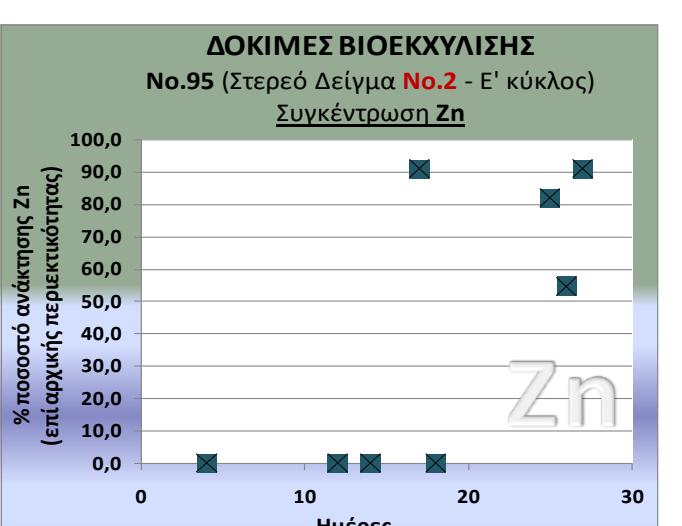
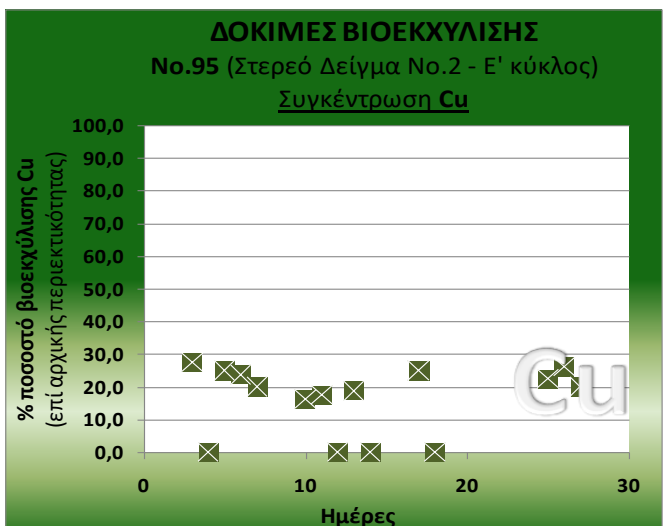
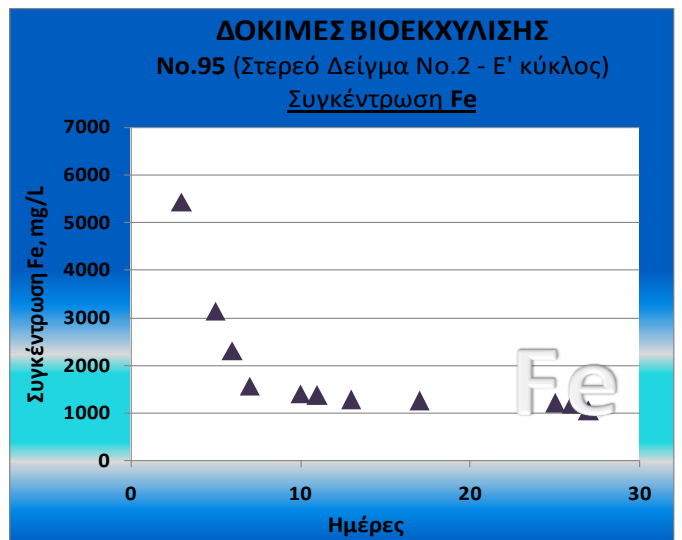
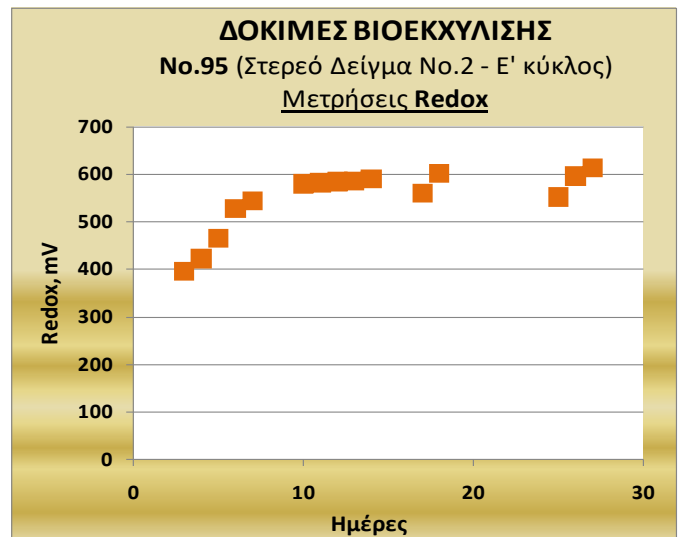
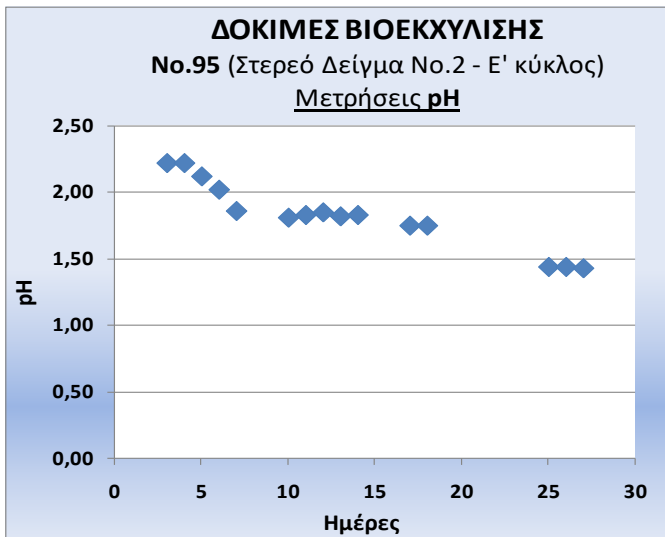


**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.2**

**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 5%**

**Β' Καλλιέργεια - Ε' Μεταφορά**

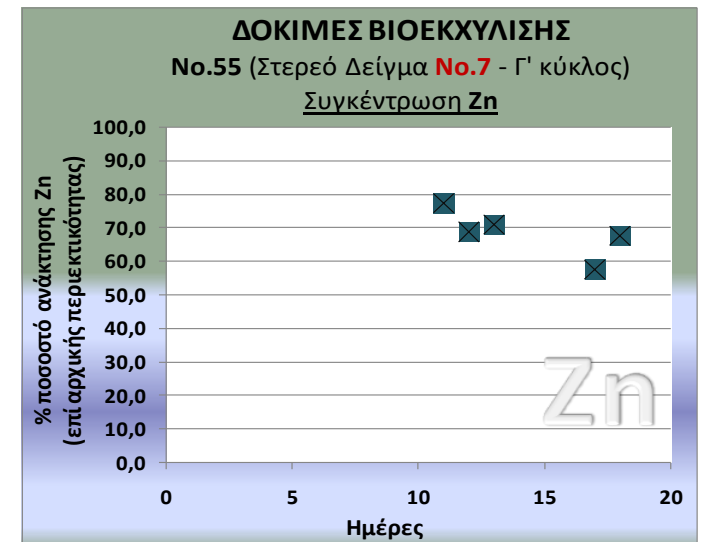
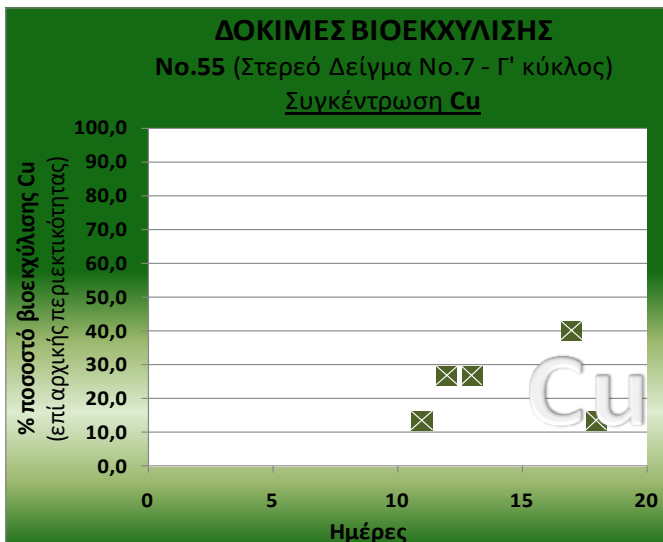
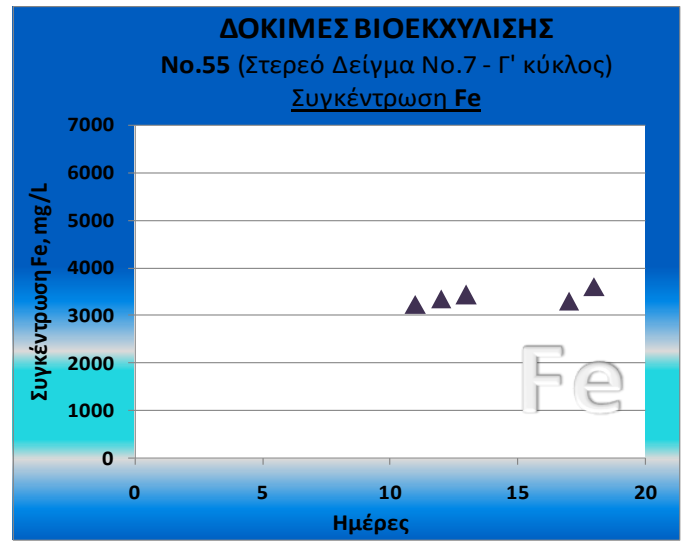
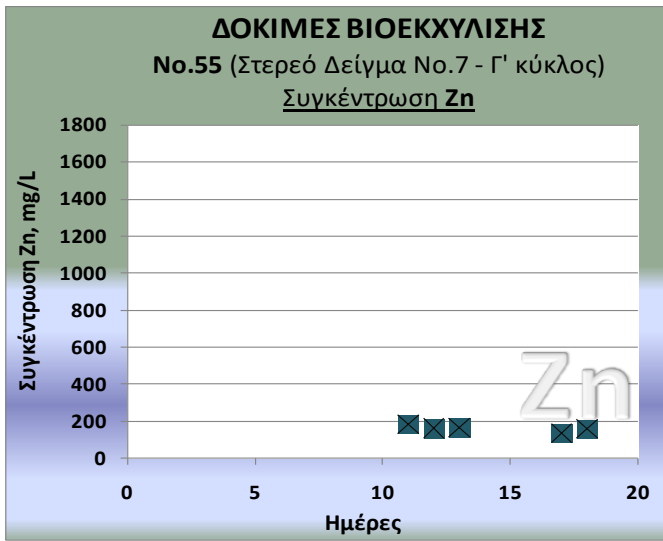
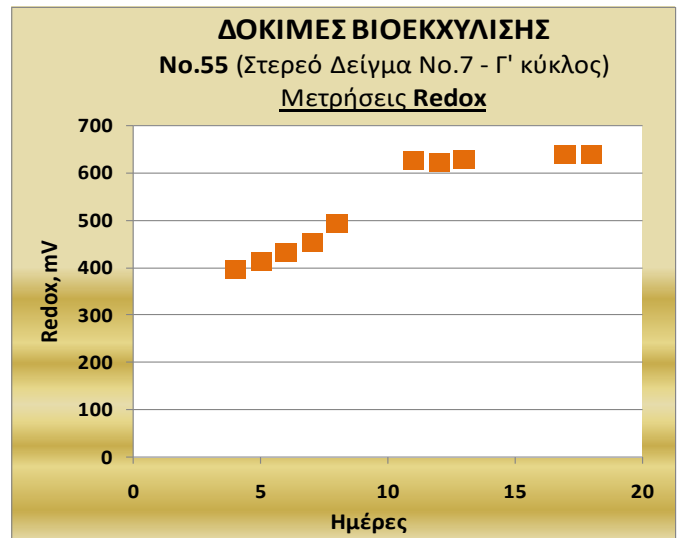
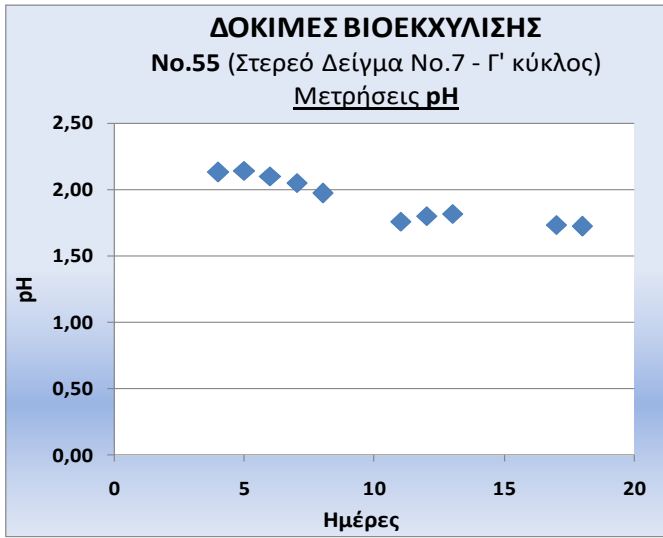




**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.7**

**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 2,5%**

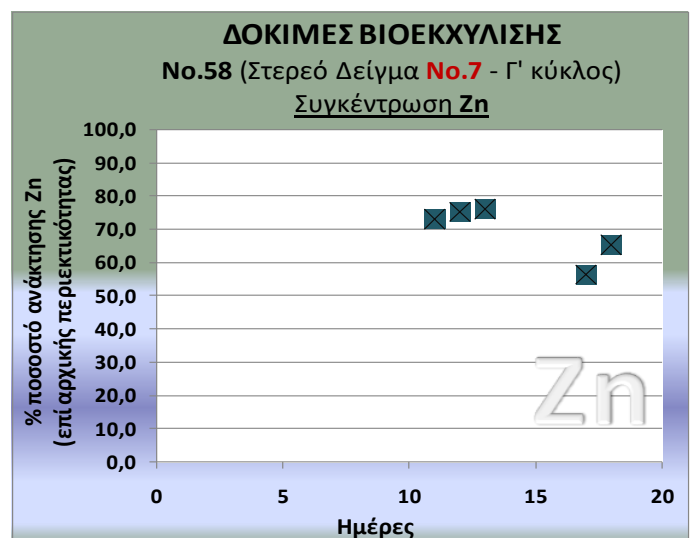
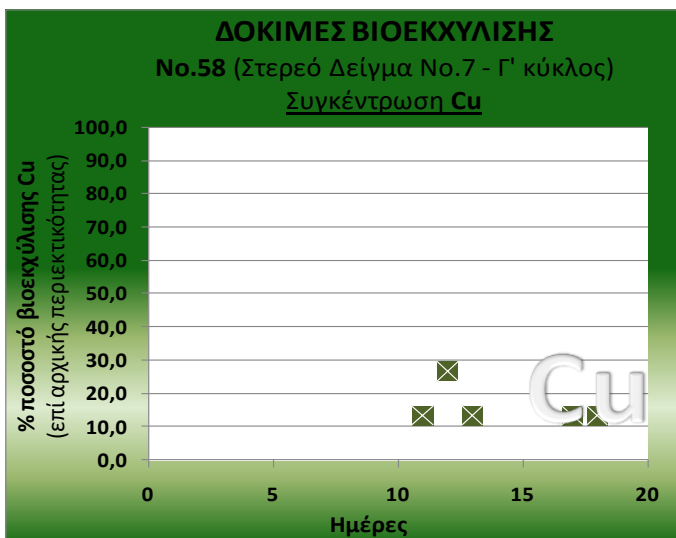
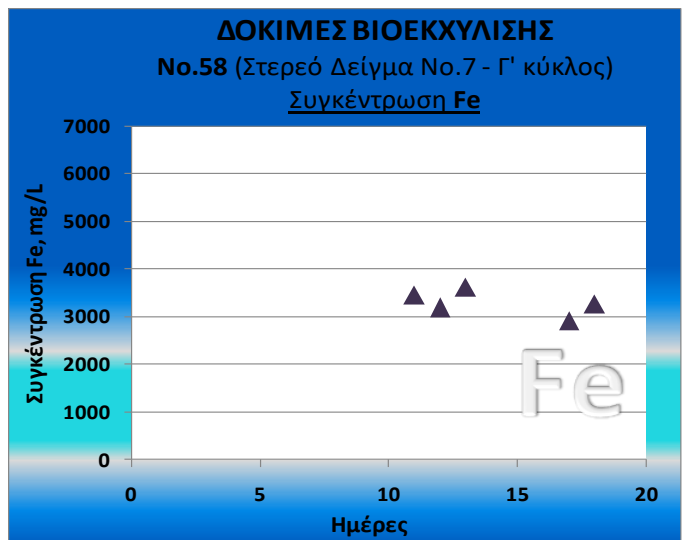
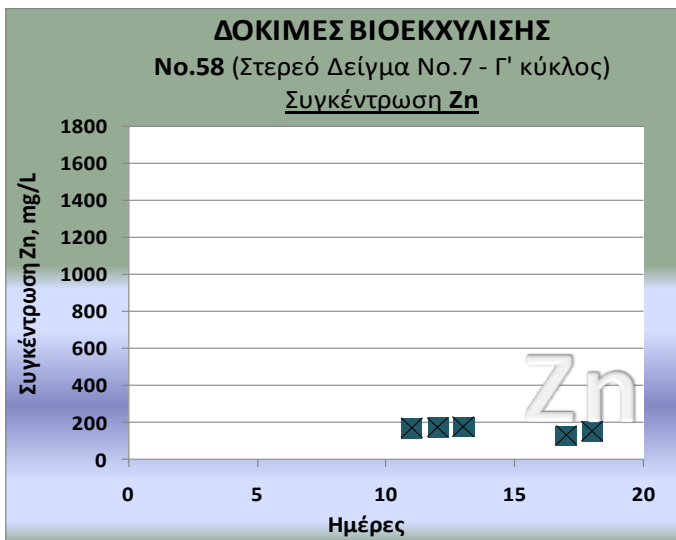
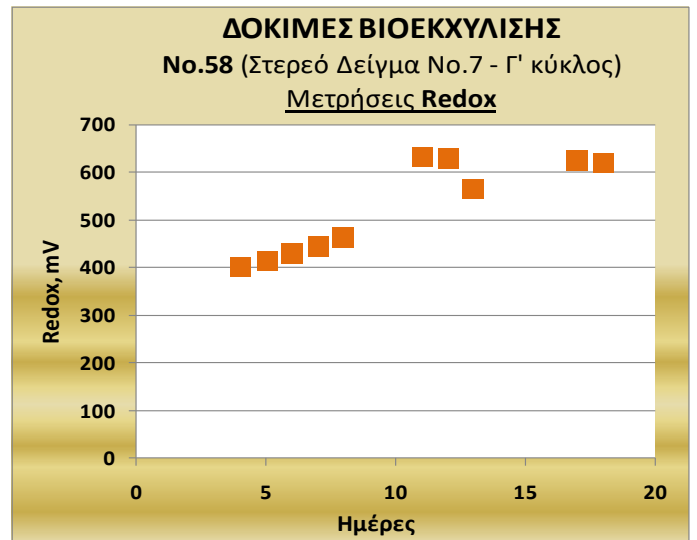
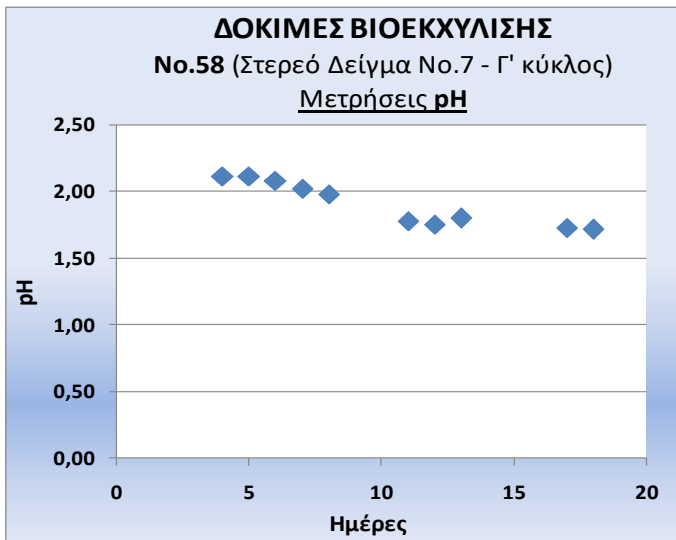
**Α' Καλλιέργεια - Γ' Μεταφορά**



**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.7**

**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 2,5%**

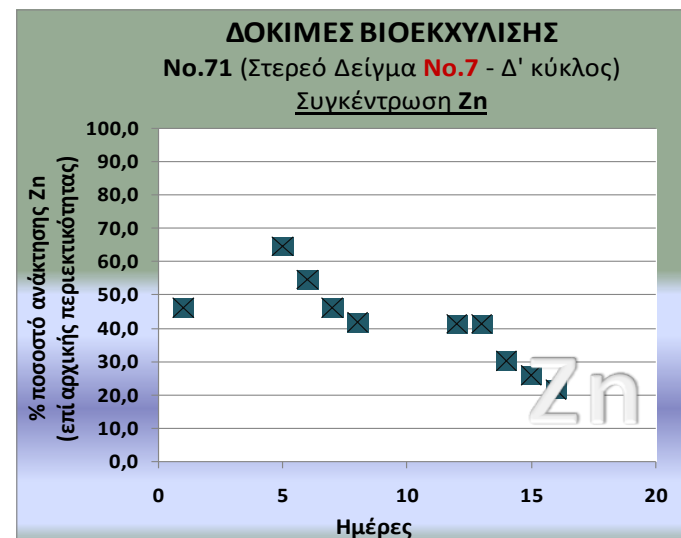
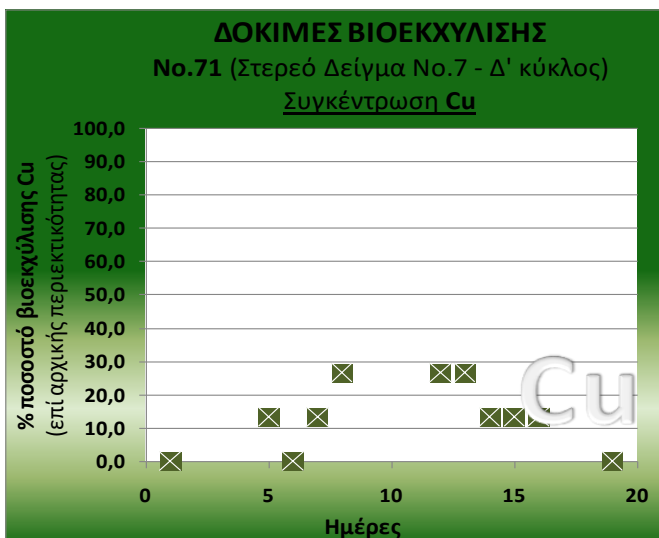
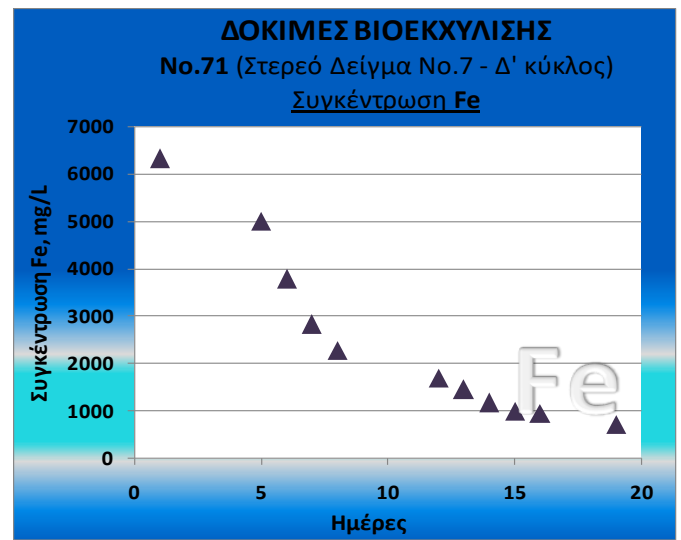
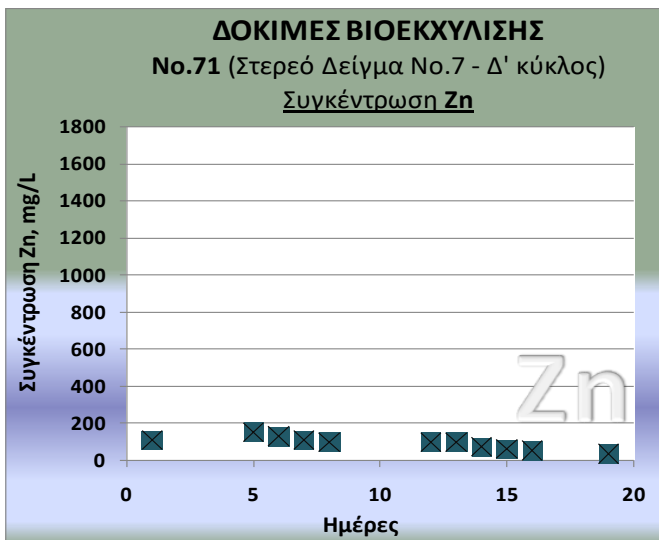
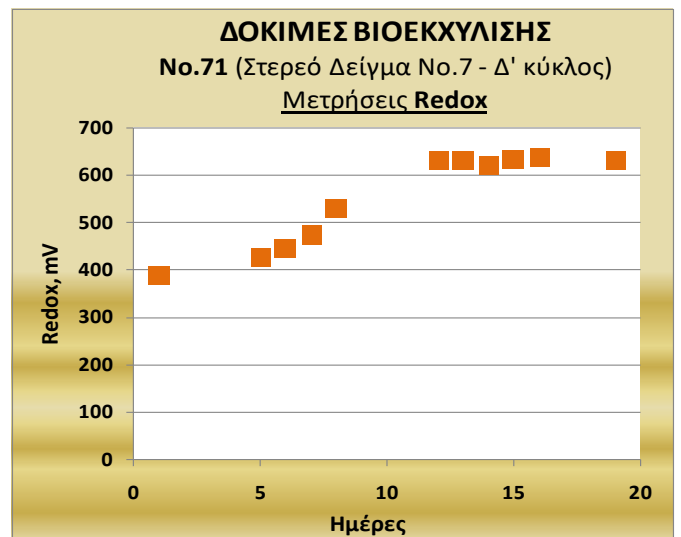
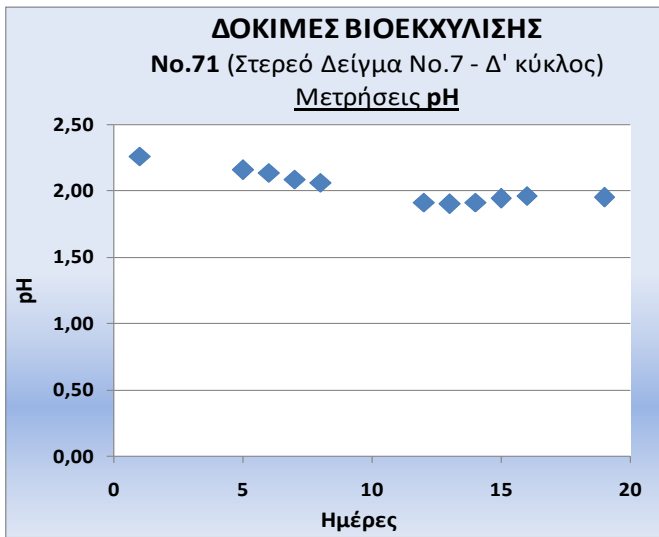
**B' Καλλιέργεια - Γ' Μεταφορά**



**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.7**

**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 2,5%**

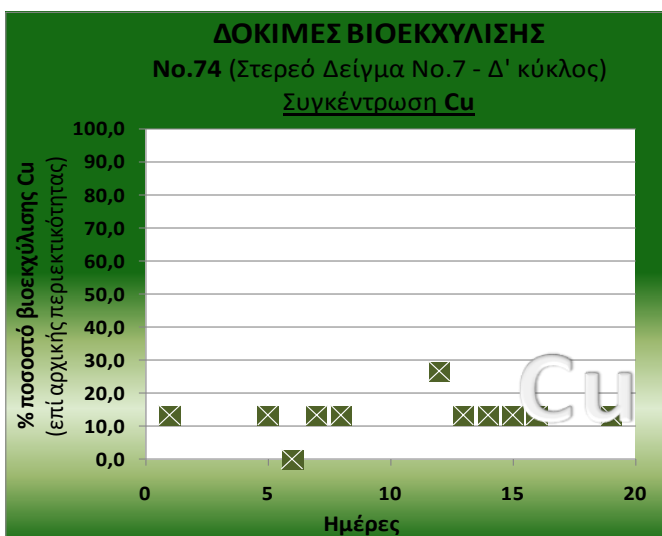
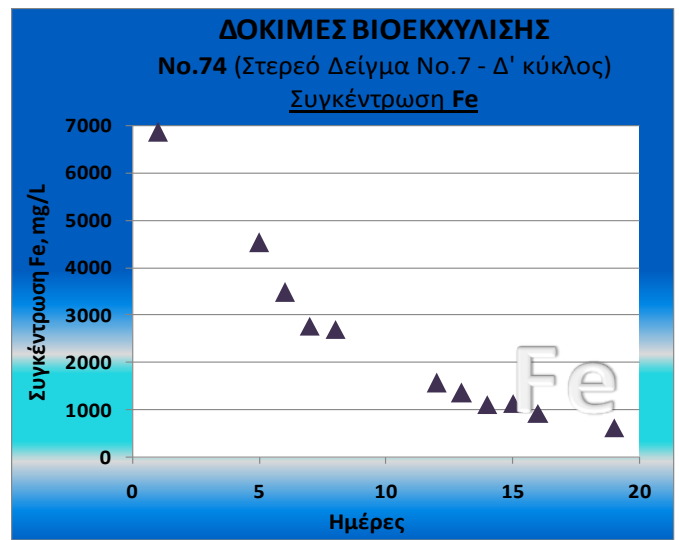
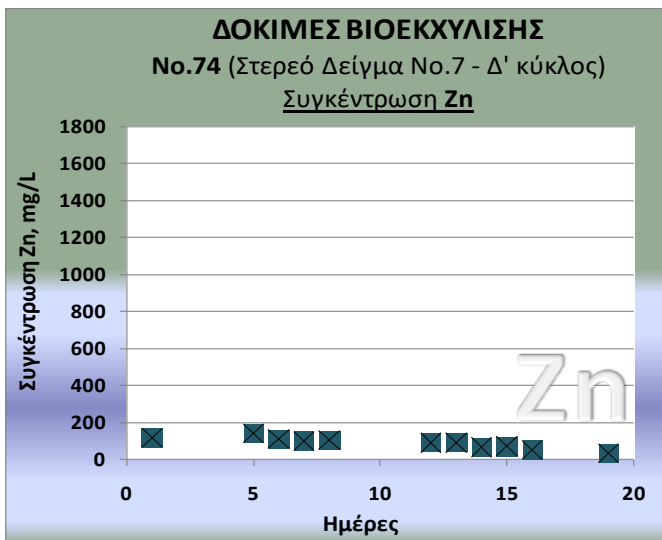
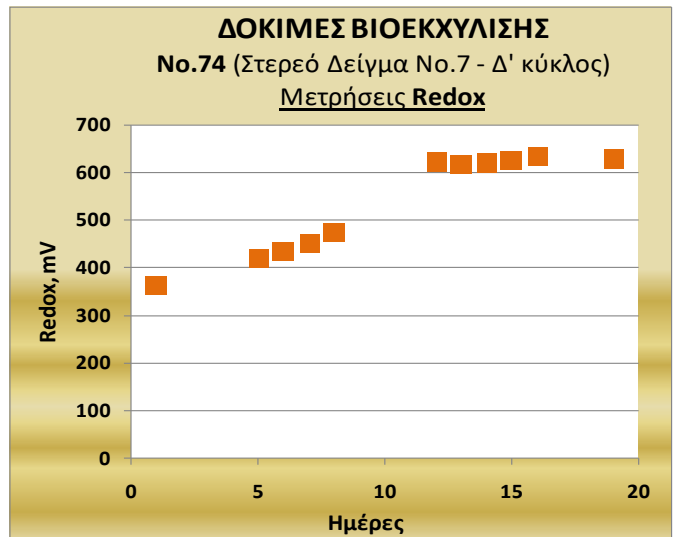
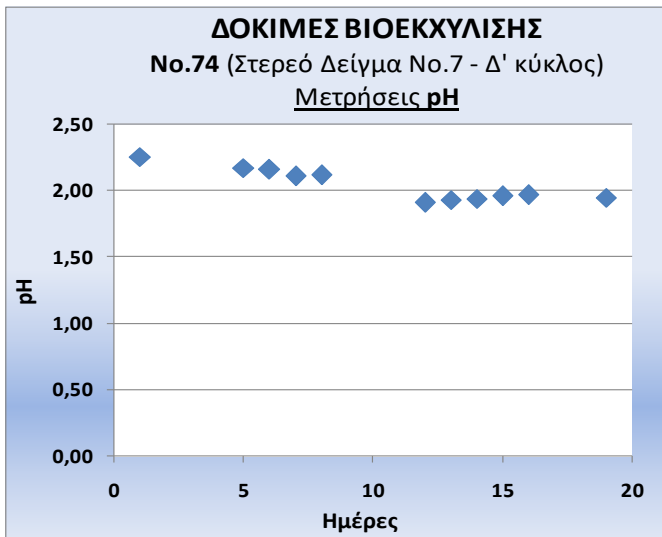
**A' Καλλιέργεια - Δ' Μεταφορά**



**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.7**

**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 2,5%**

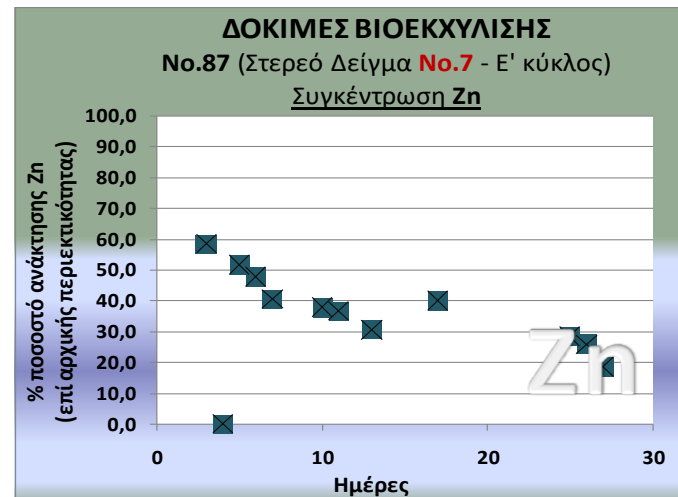
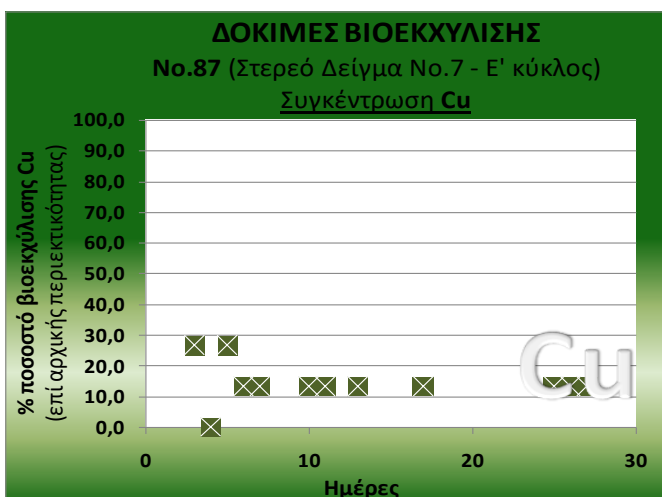
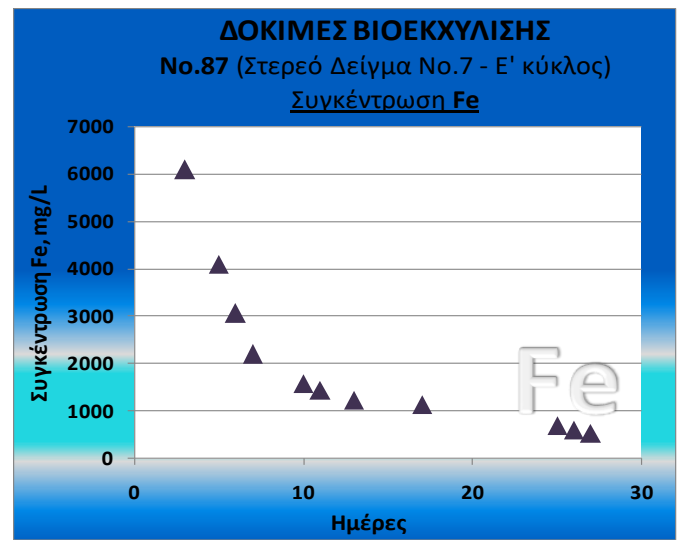
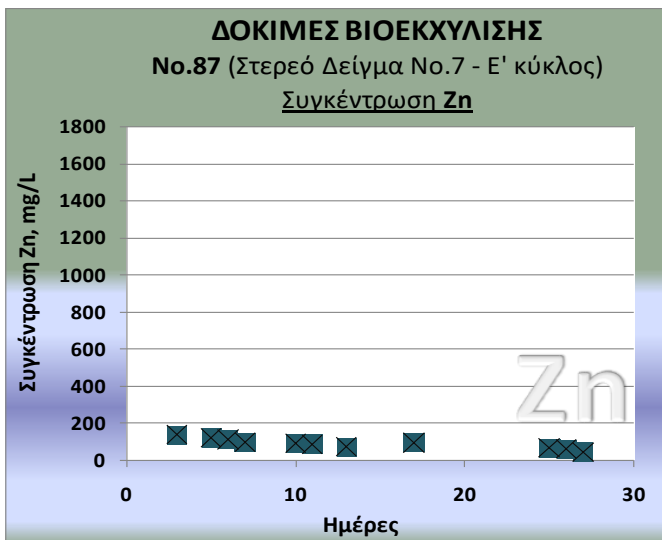
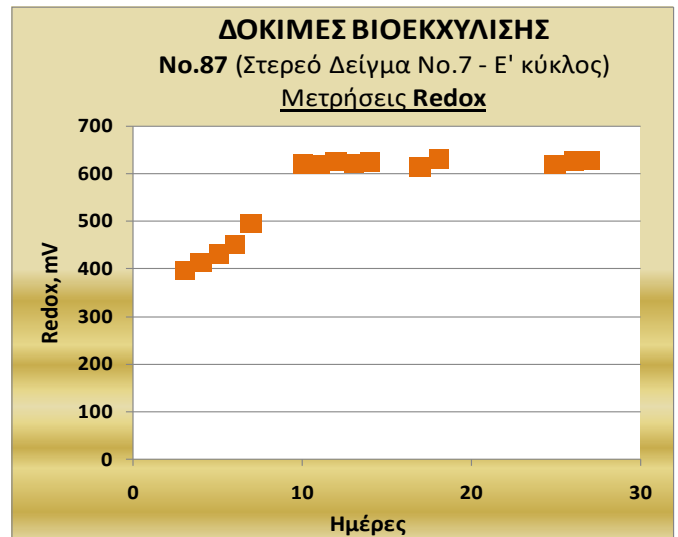
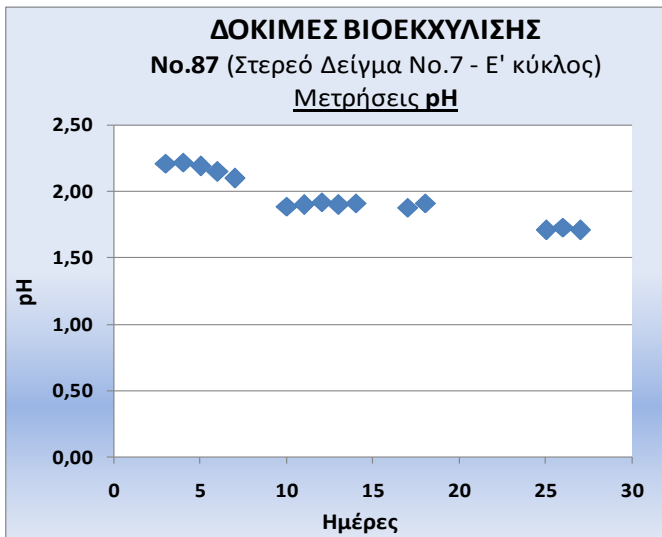
**B' Καλλιέργεια - Δ' Μεταφορά**



**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.7**

**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 2,5%**

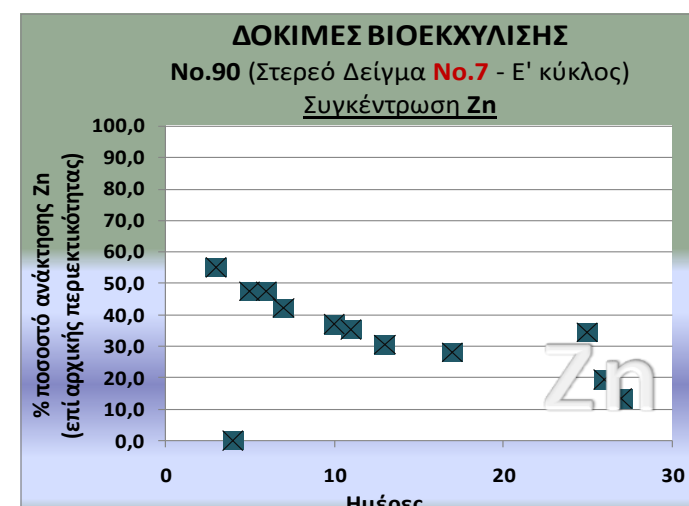
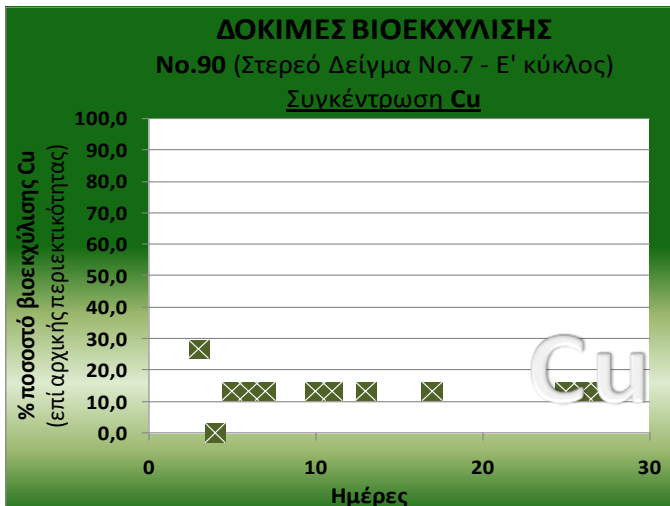
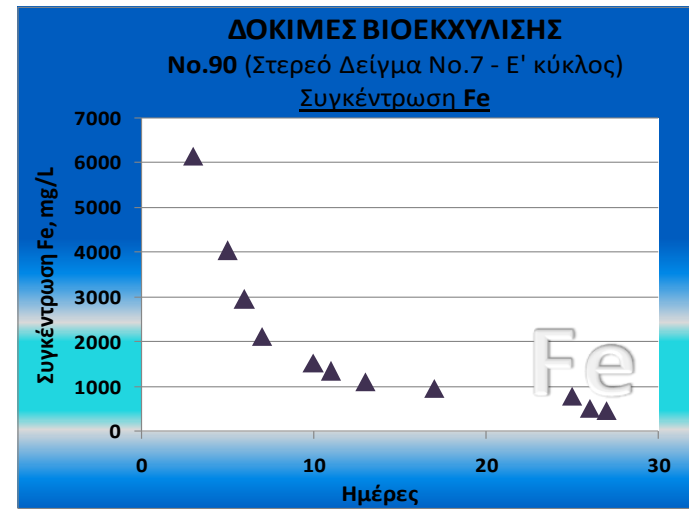
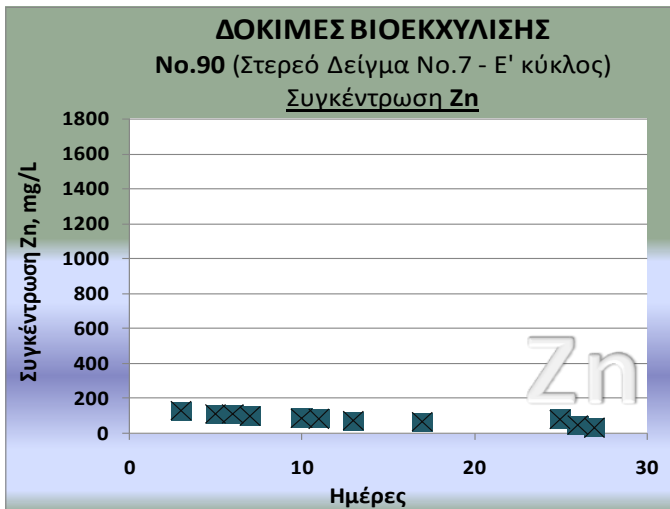
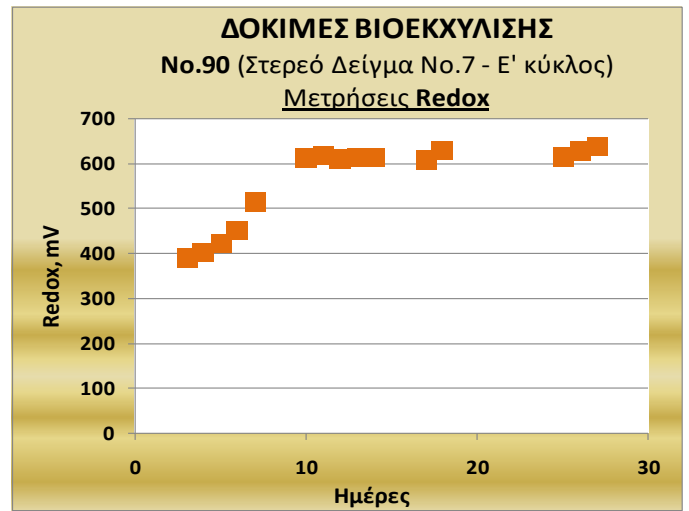
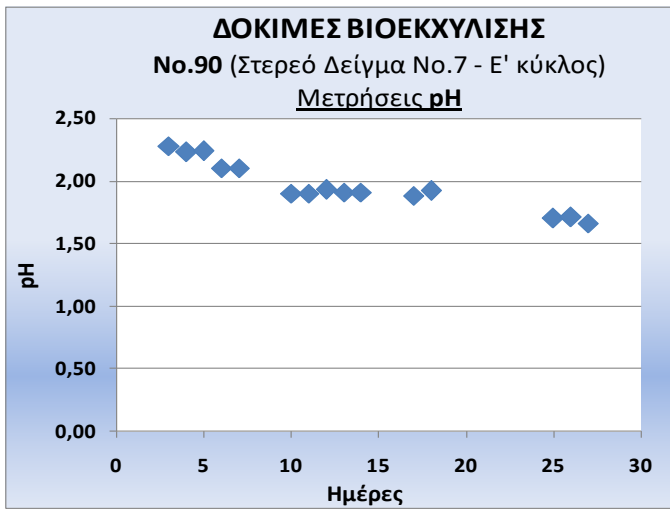
**A' Καλλιέργεια - E' Μεταφορά**



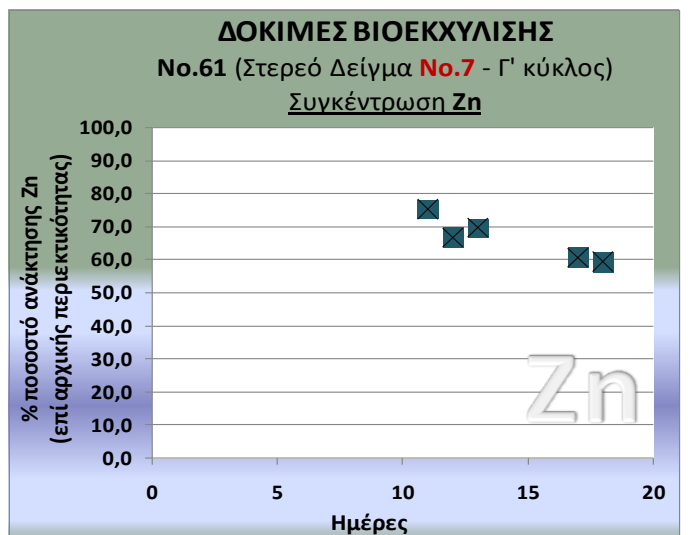
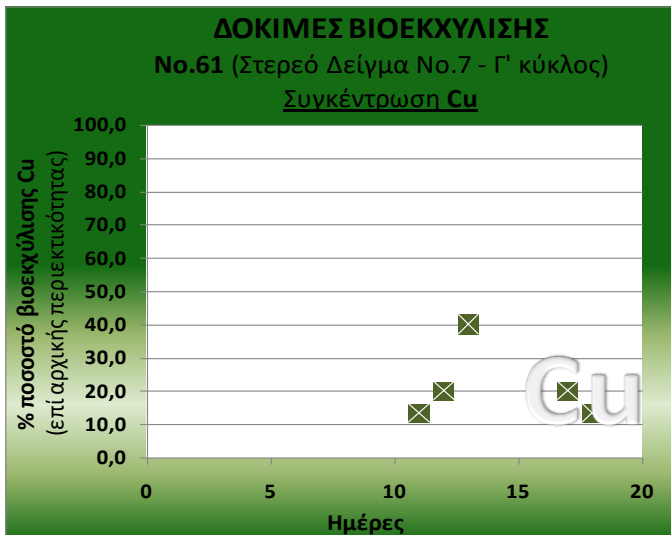
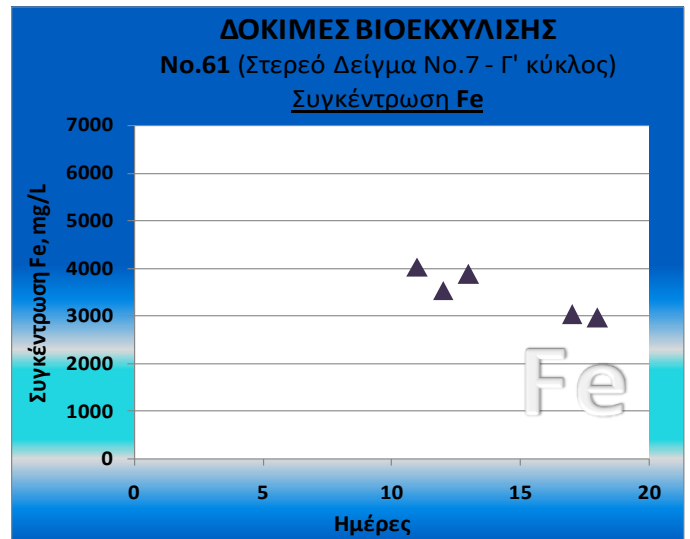
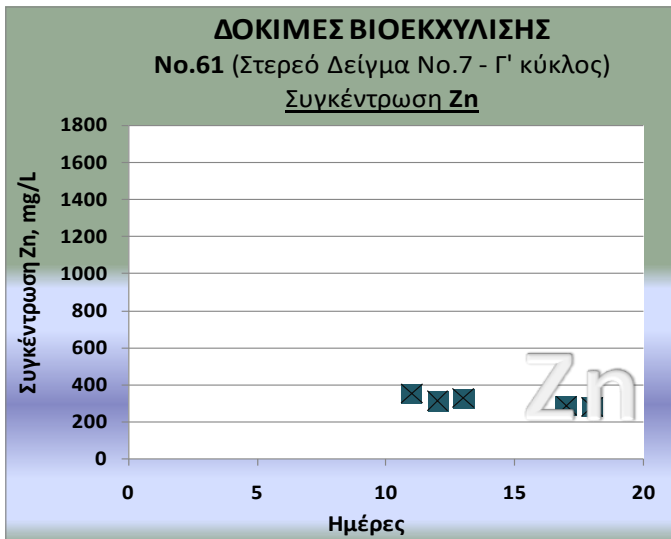
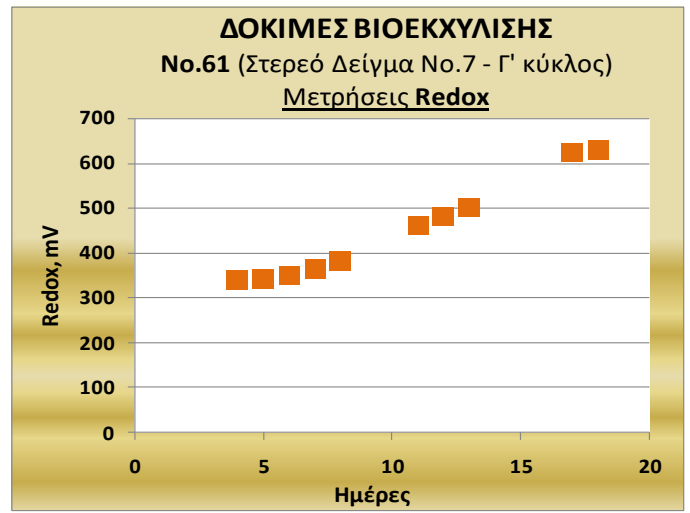
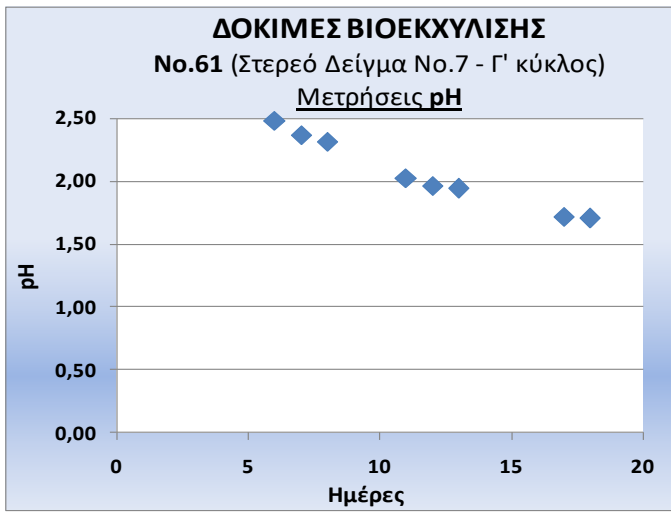
**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.7**

**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 2,5%**

**Β' Καλλιέργεια - Ε' Μεταφορά**



**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.7**  
**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 5%**  
**Α' Καλλιέργεια - Γ' Μεταφορά**

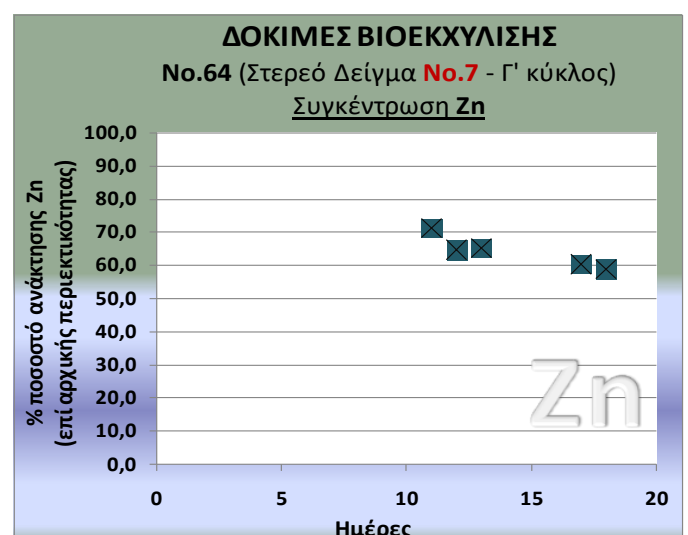
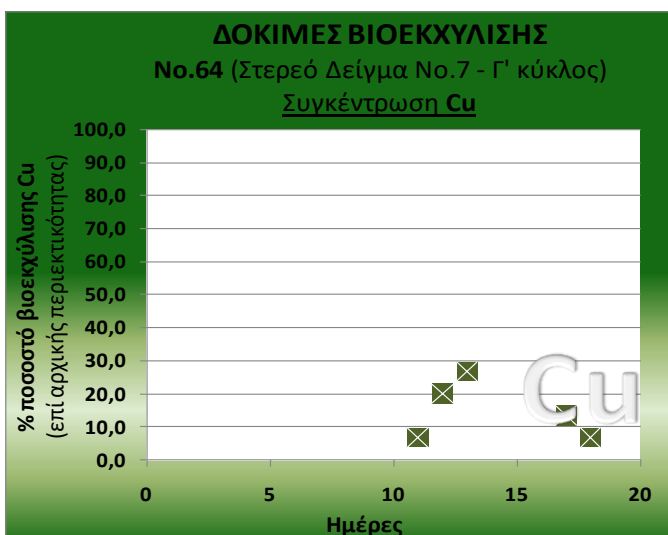
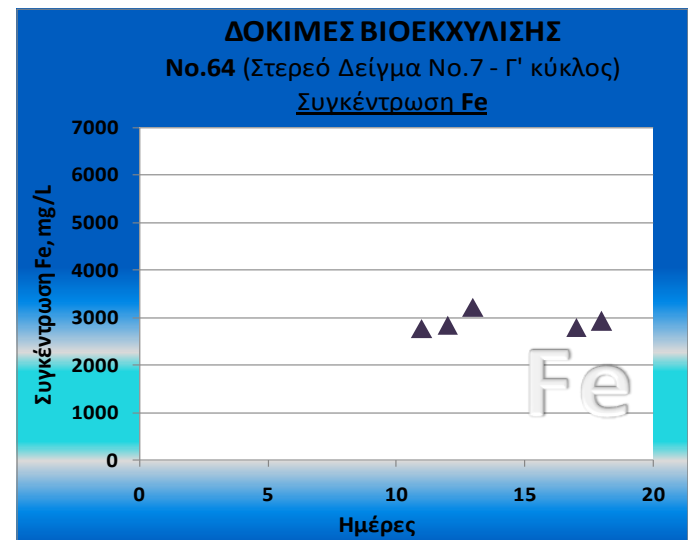
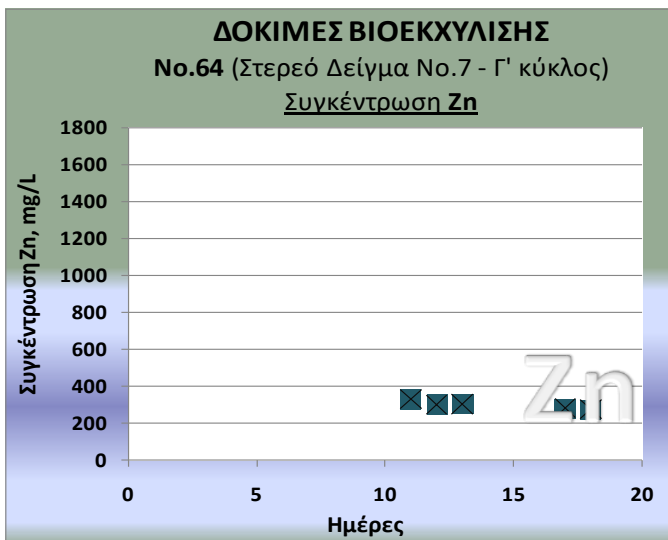
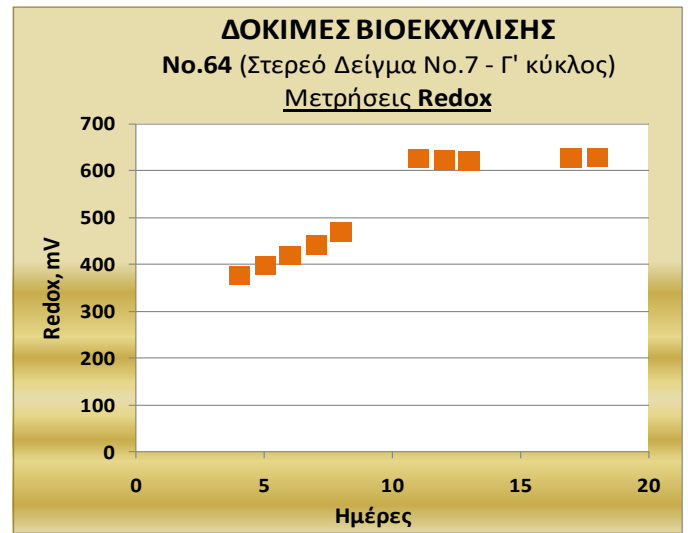
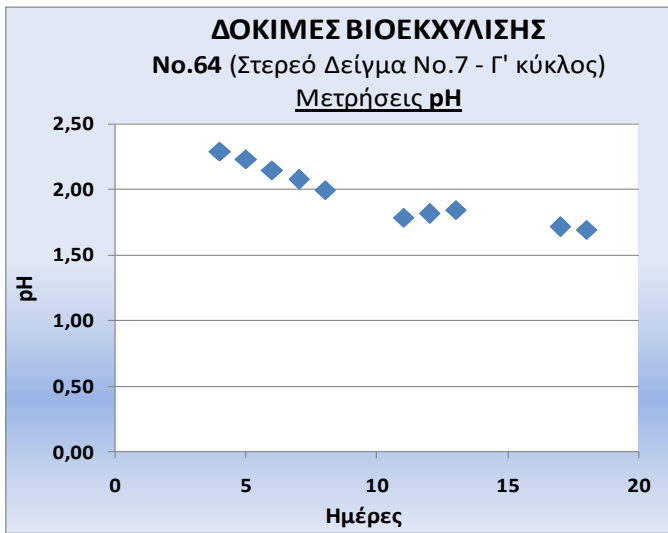


**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.7**

**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 5%**

**B' Καλλιέργεια - Γ' Μεταφορά**

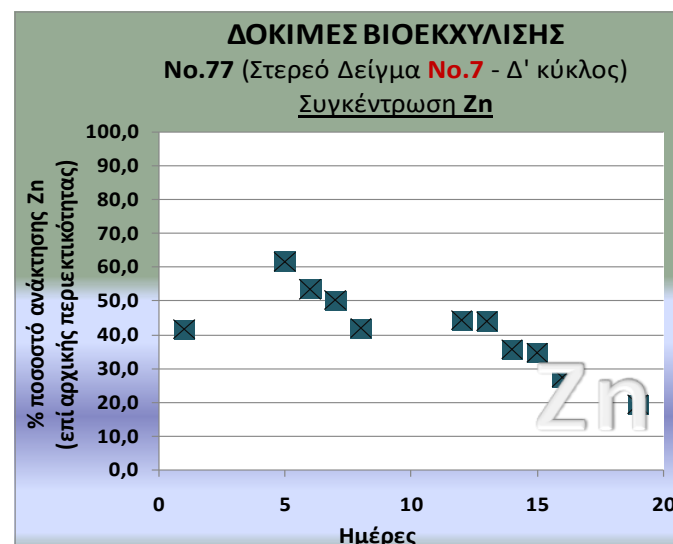
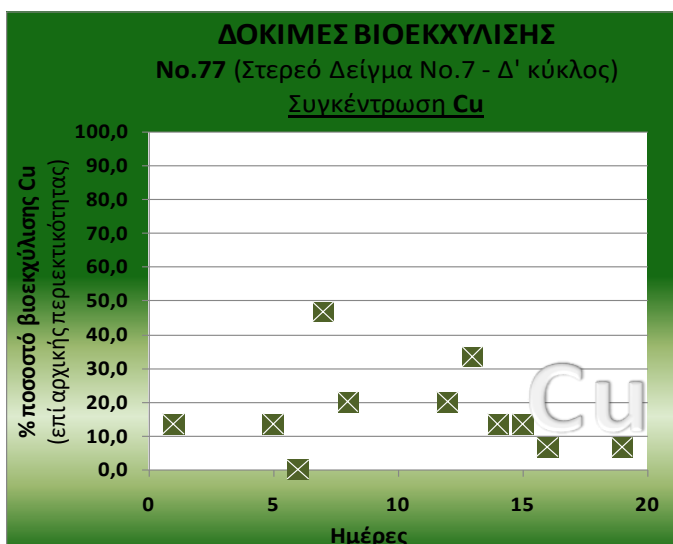
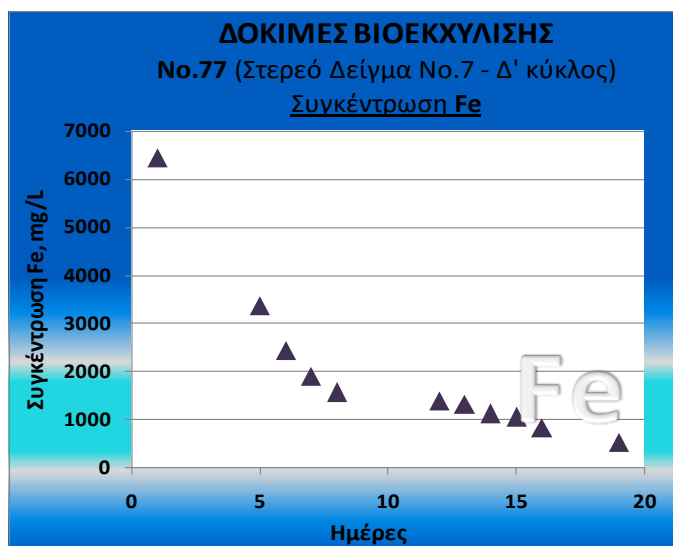
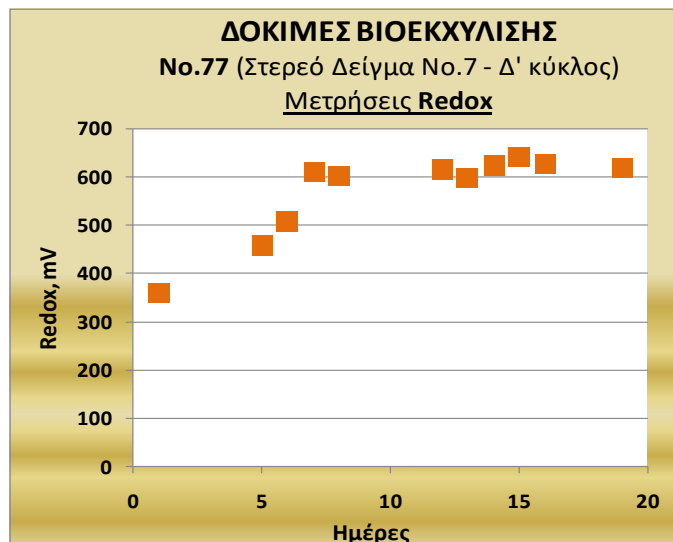
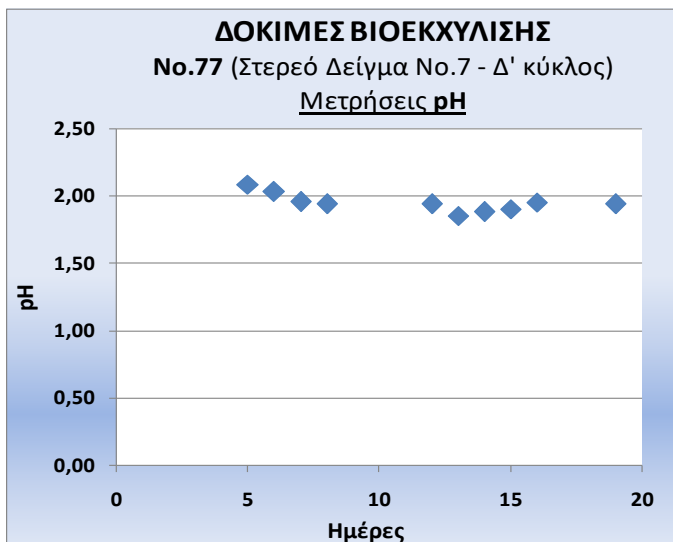




**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.7**

**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 5%**

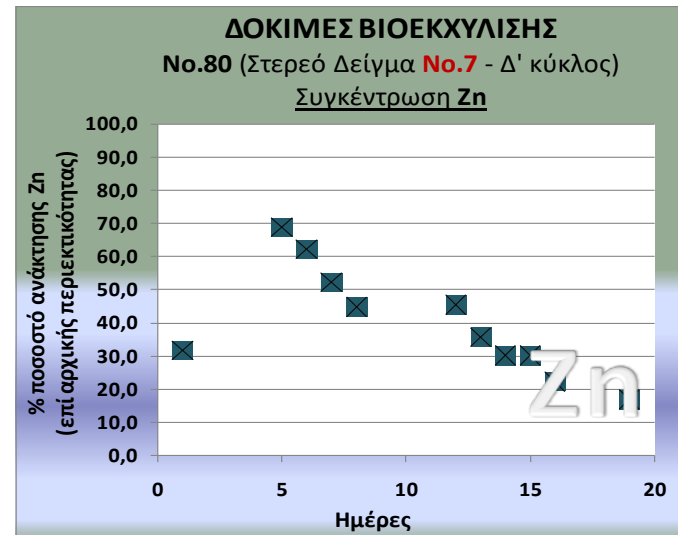
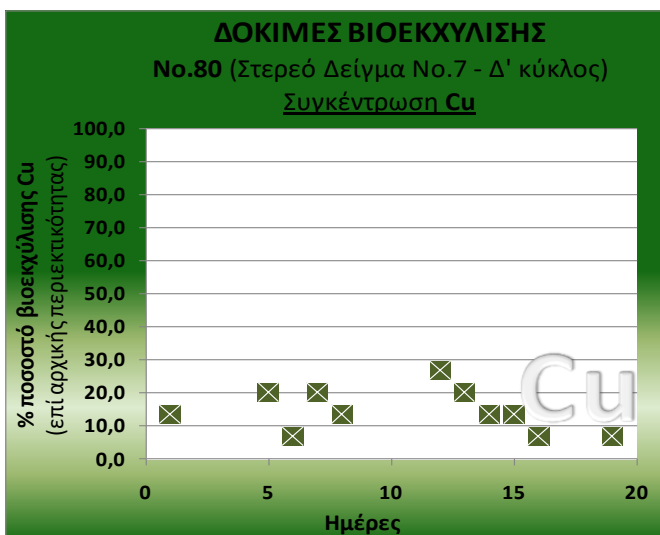
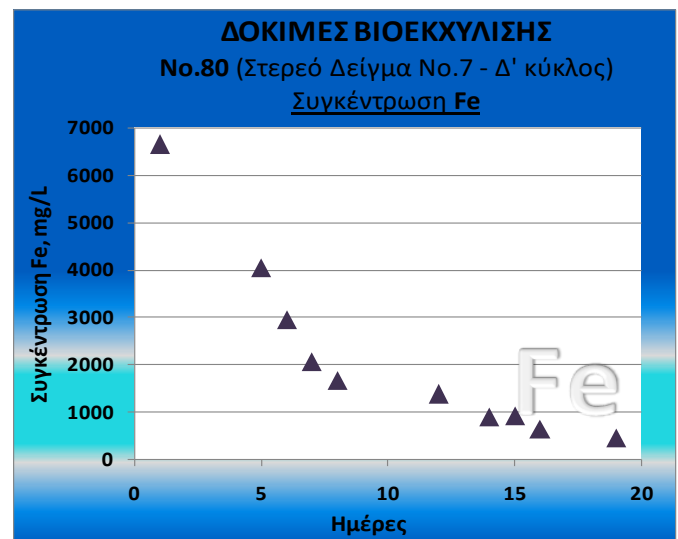
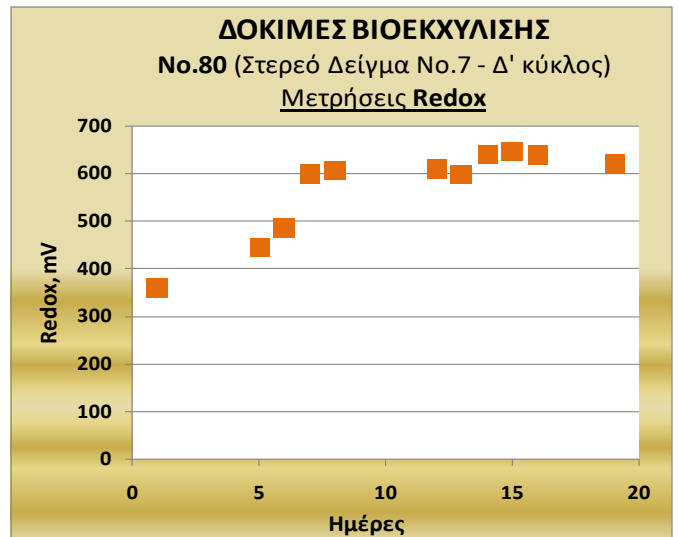
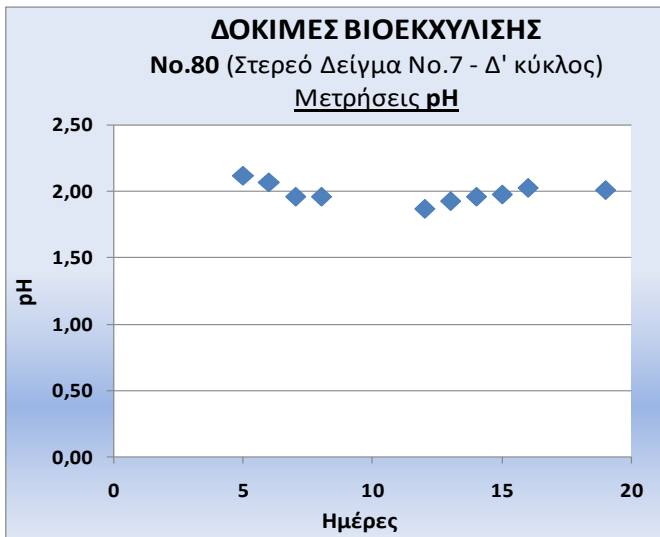
**Α' Καλλιέργεια - Δ' Μεταφορά**



**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.7**

**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 5%**

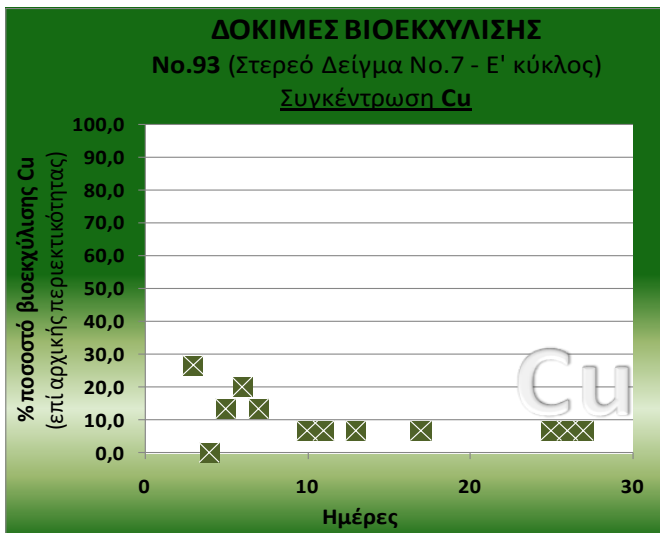
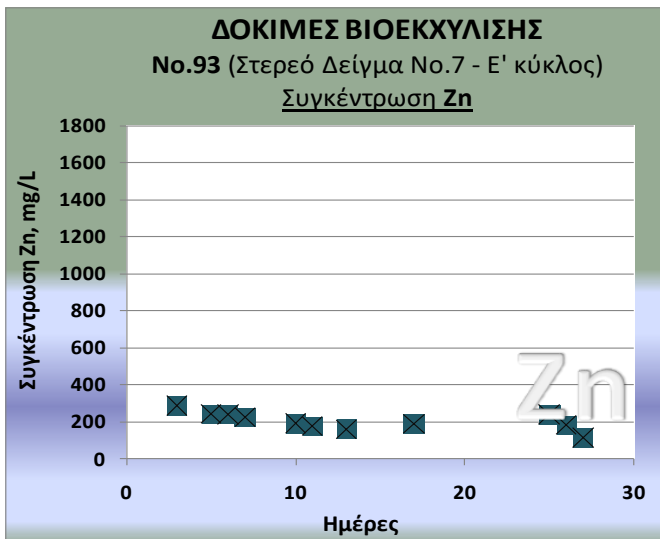
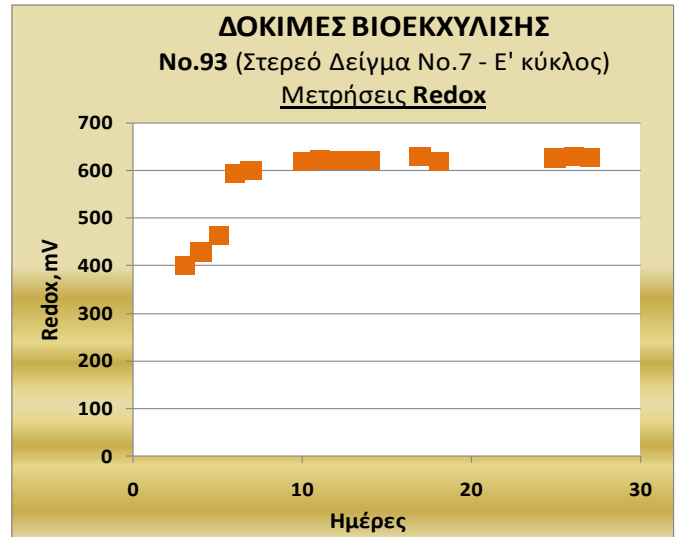
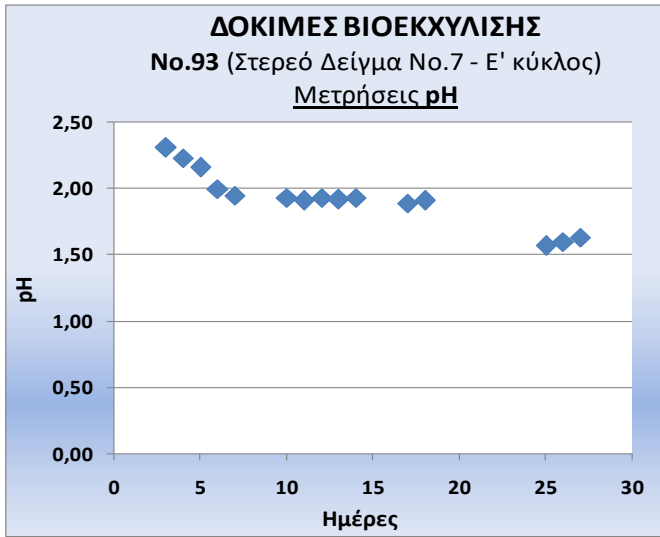
**B' Καλλιέργεια - Δ' Μεταφορά**



**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.7**

**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 5%**

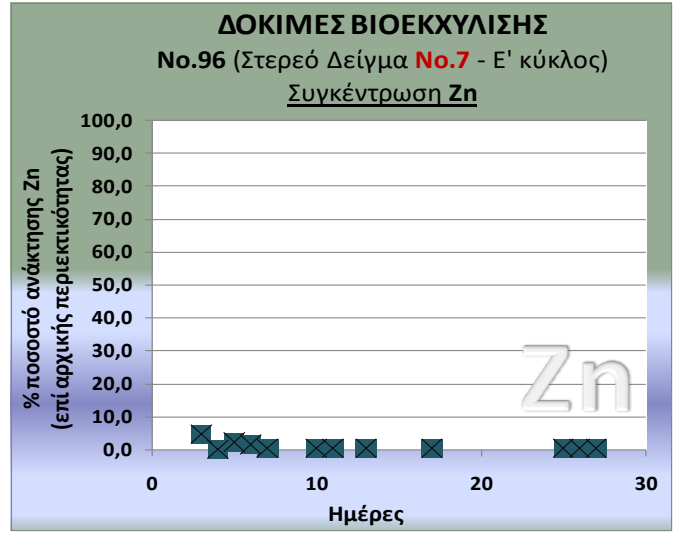
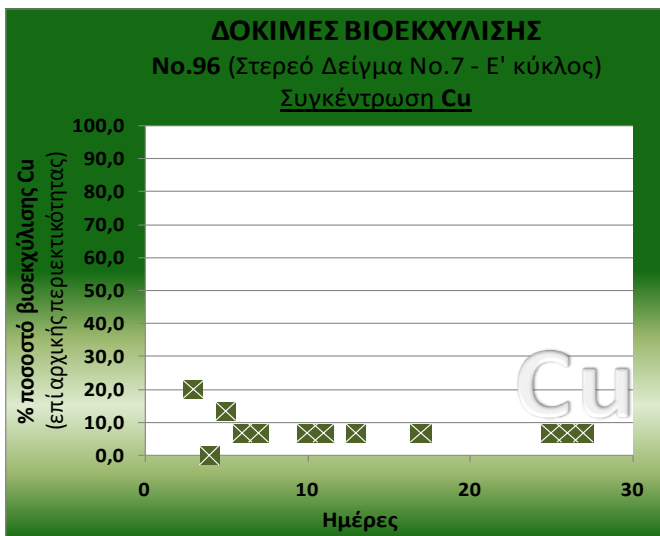
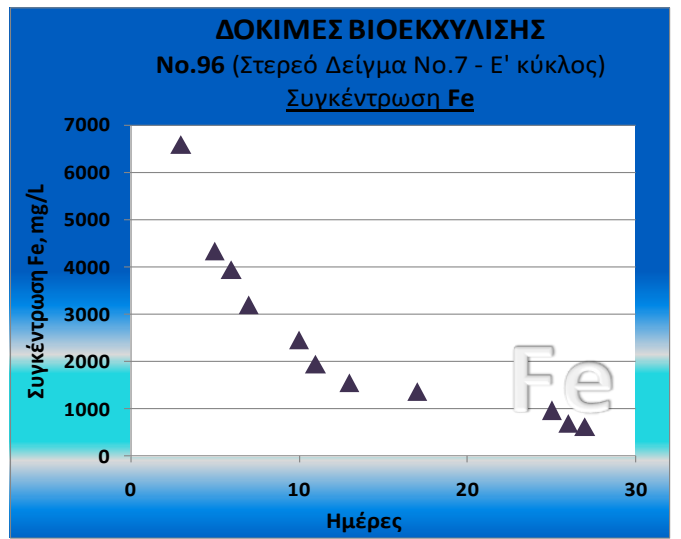
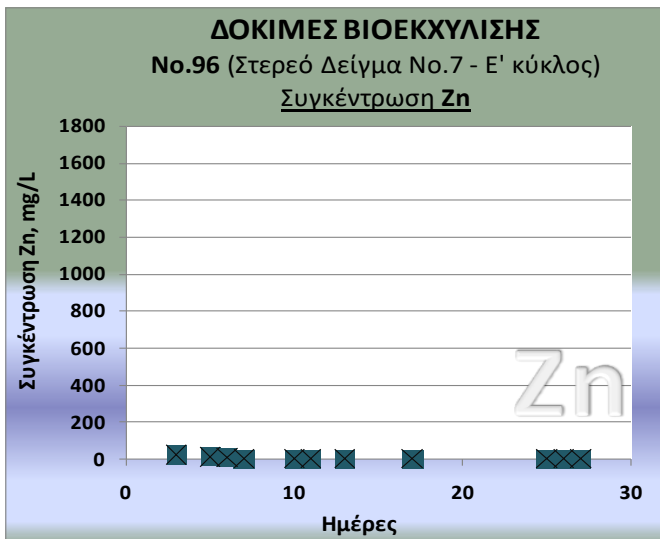
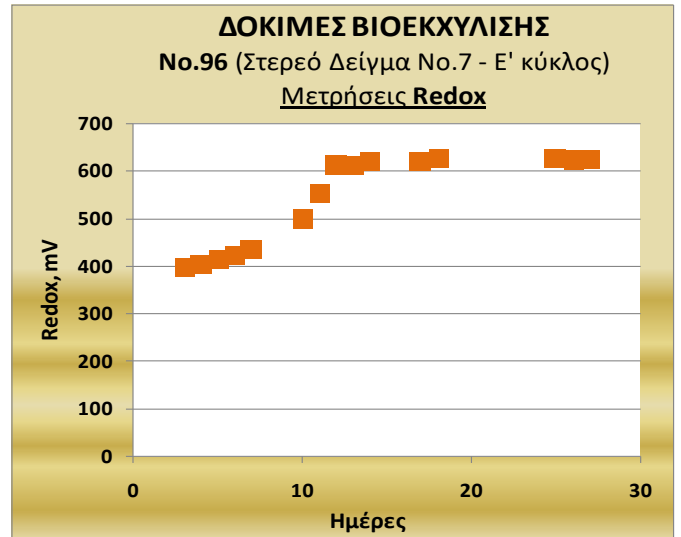
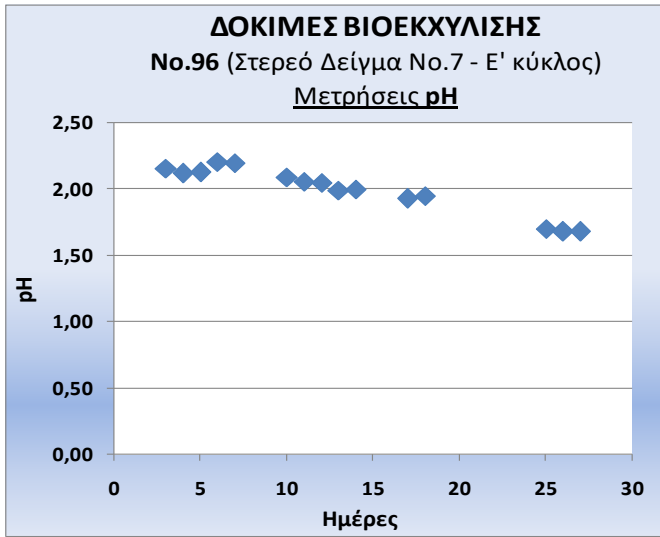
**A' Καλλιέργεια - E' Μεταφορά**



**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.7**

**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 5%**

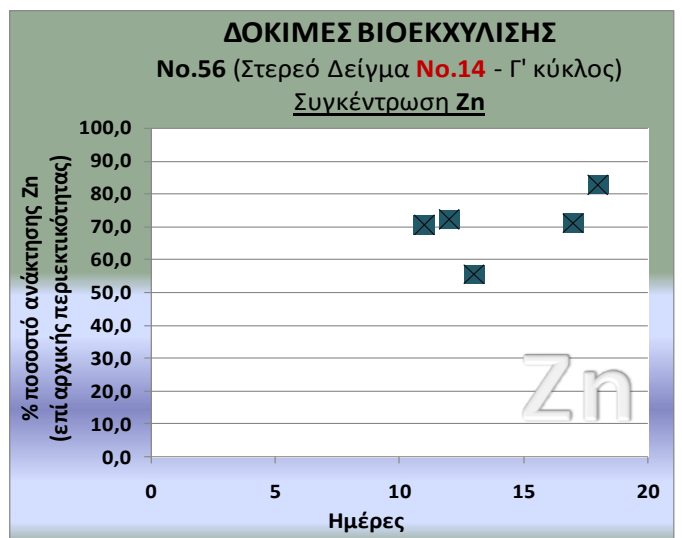
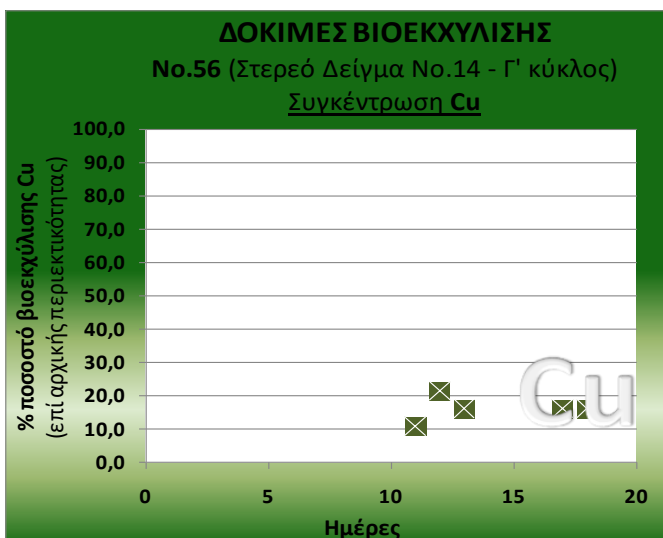
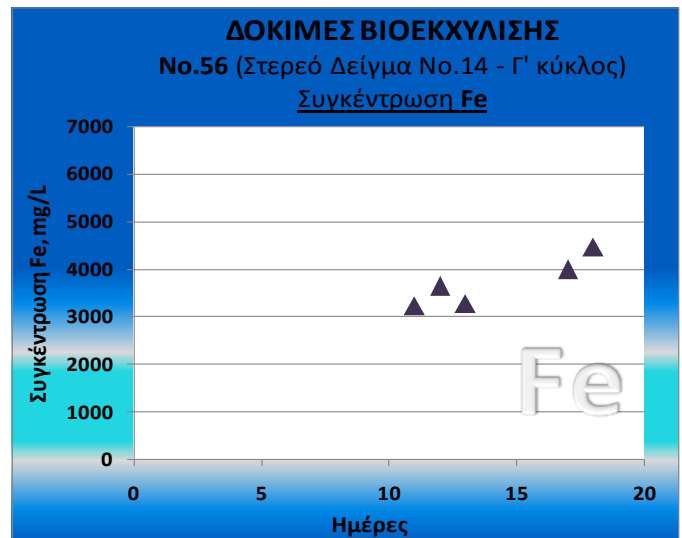
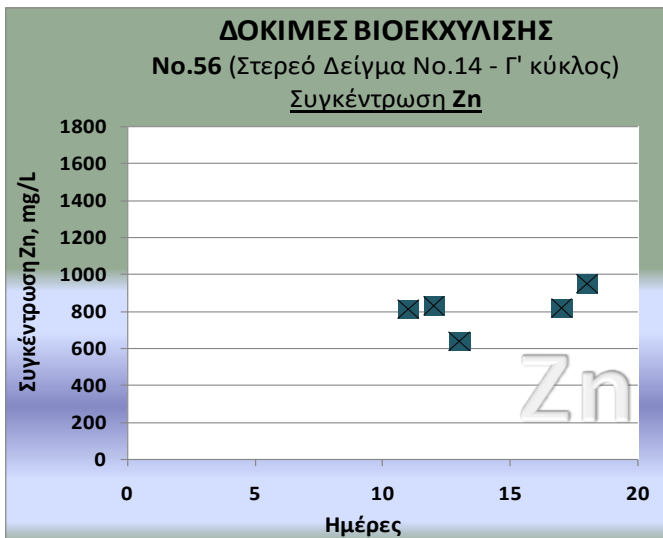
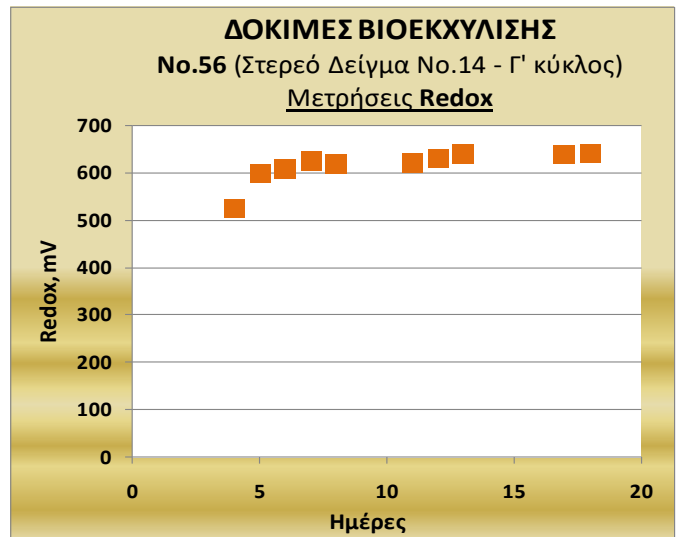
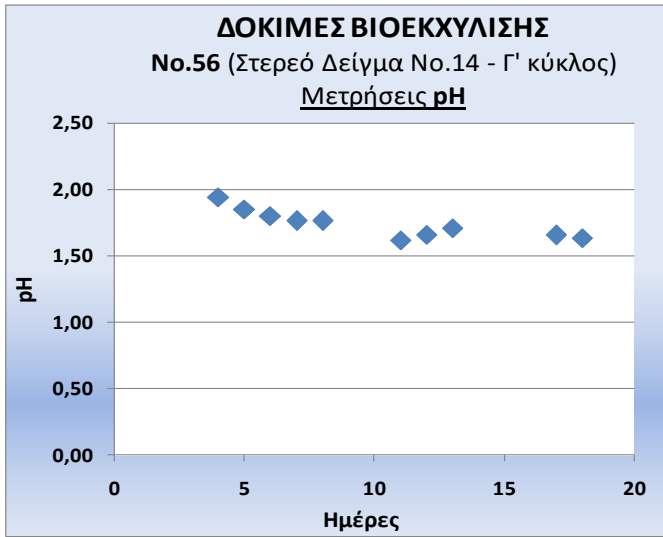
**Β' Καλλιέργεια - Ε' Μεταφορά**



**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.14**

**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 2,5%**

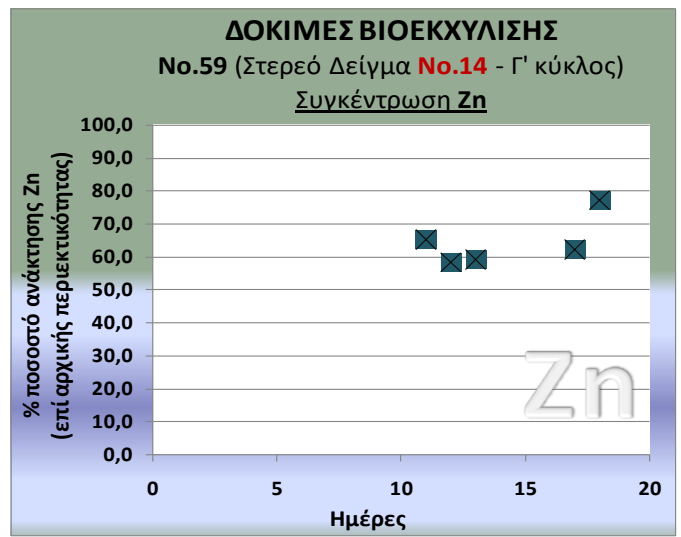
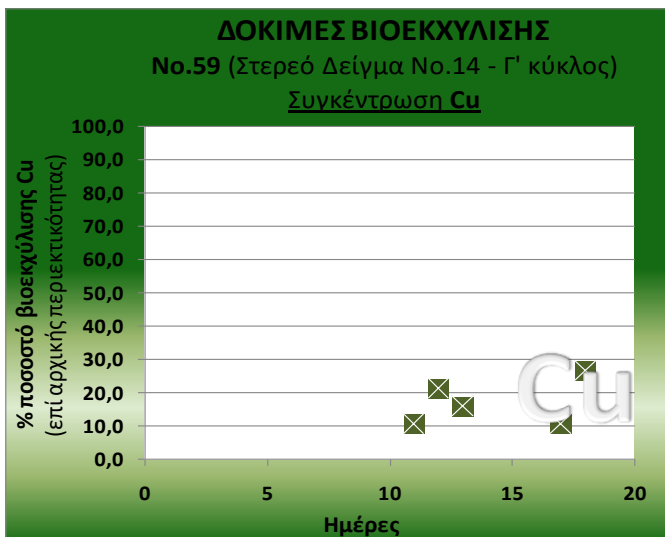
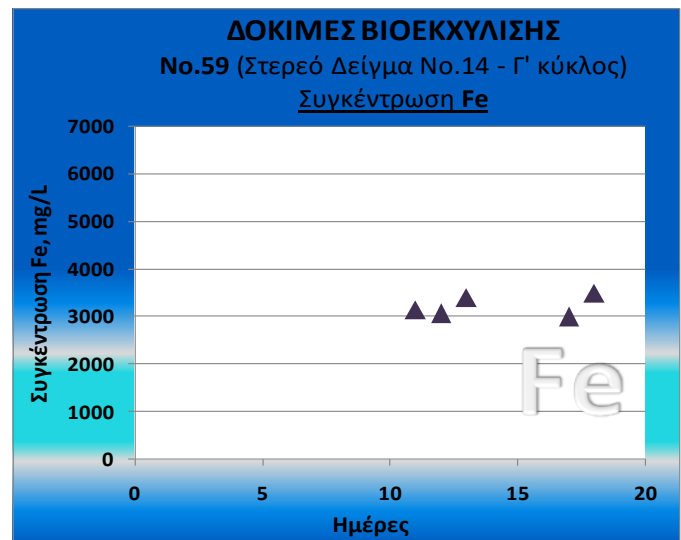
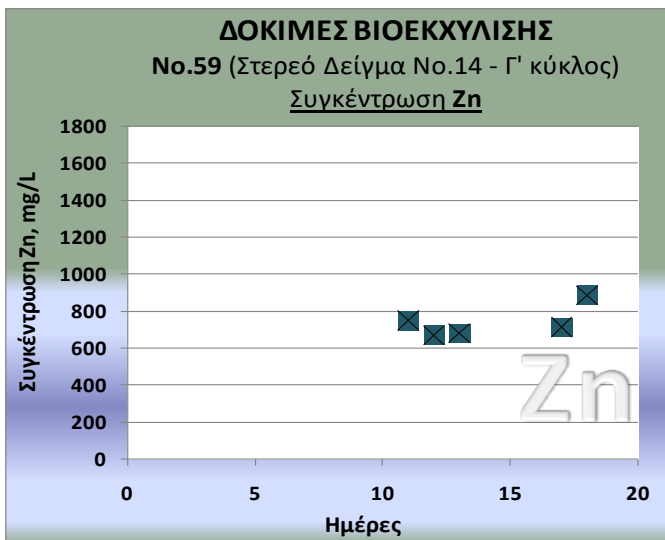
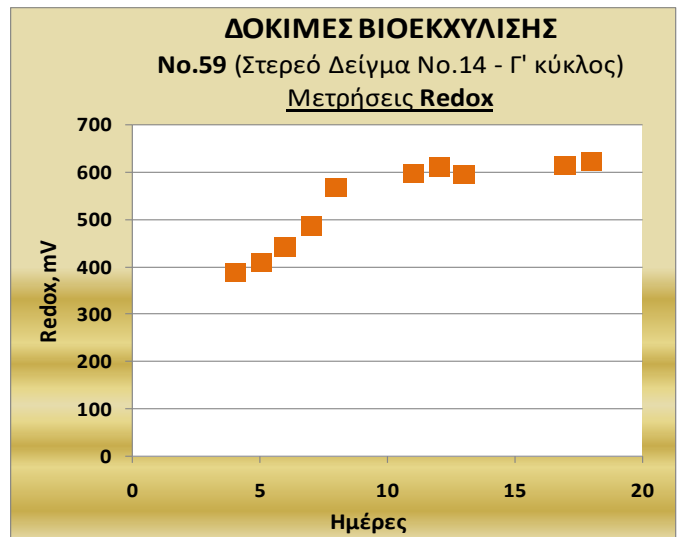
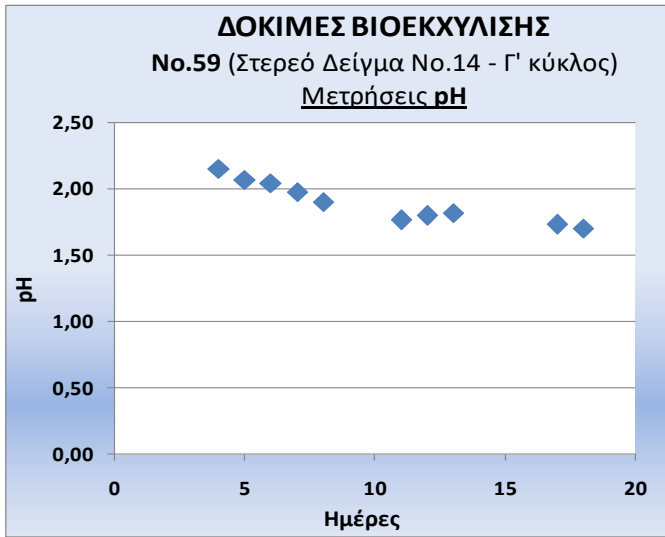
**Α' Καλλιέργεια - Γ' Μεταφορά**



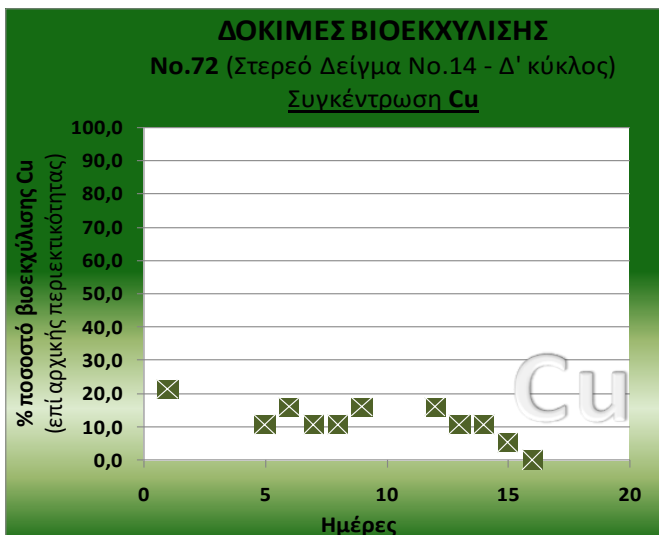
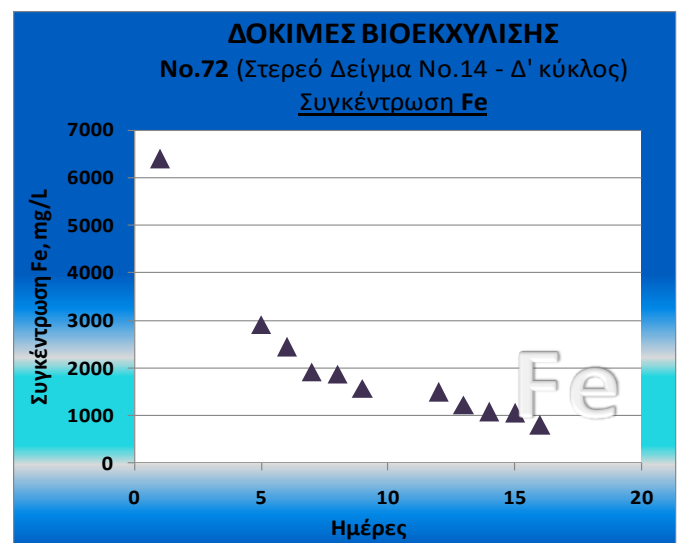
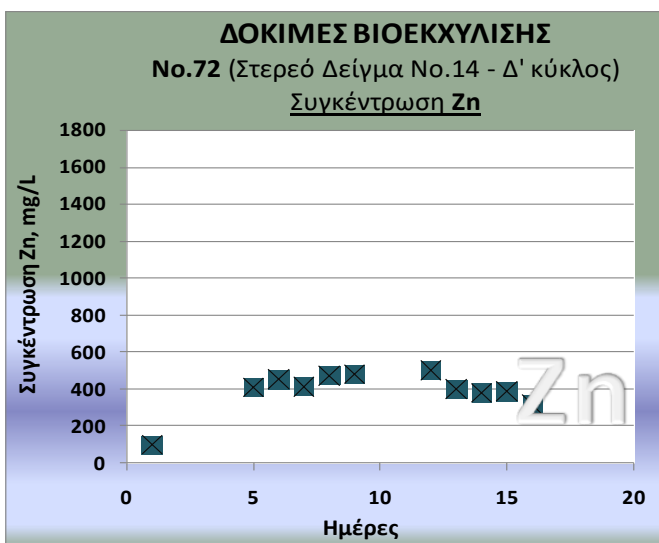
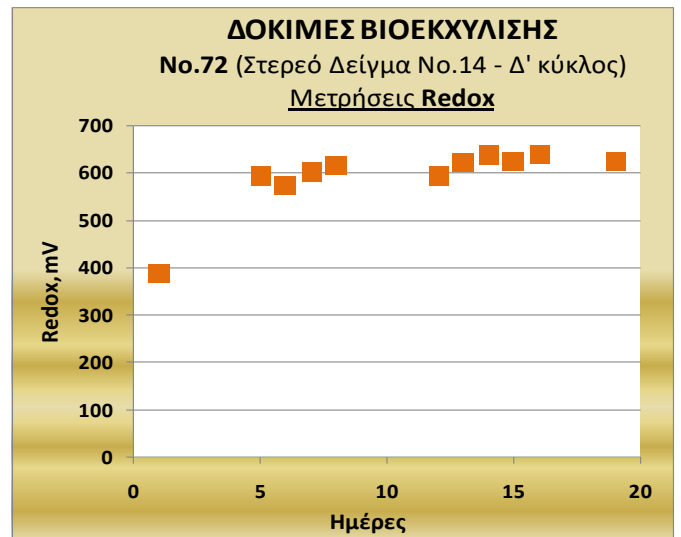
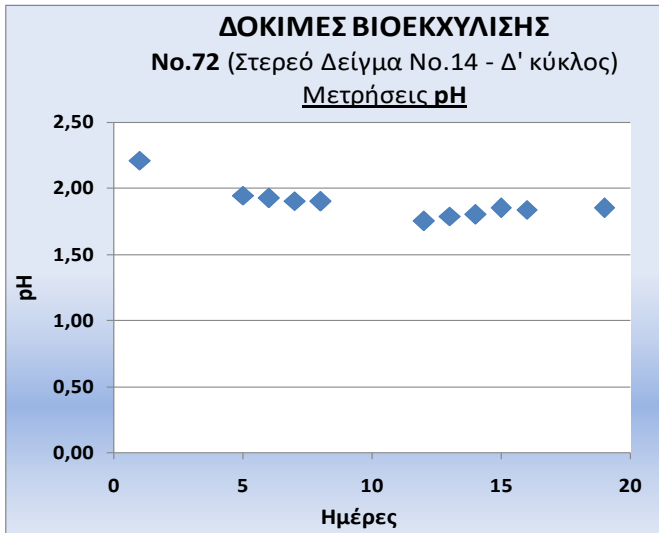
**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.14**

**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 2,5%**

**B' Καλλιέργεια - Γ' Μεταφορά**

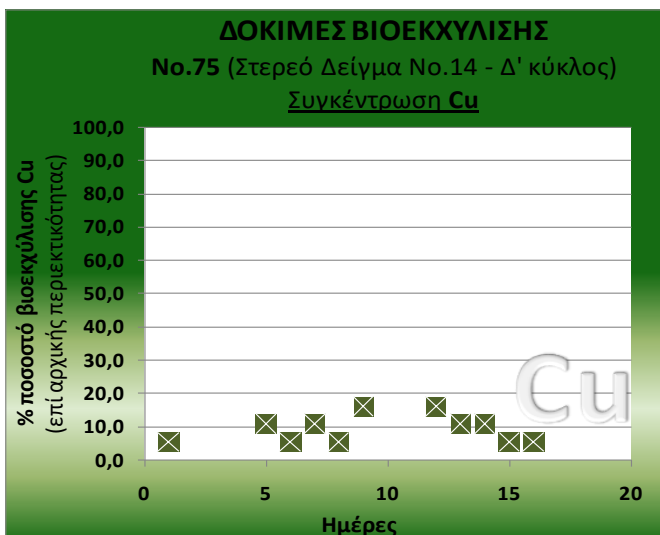
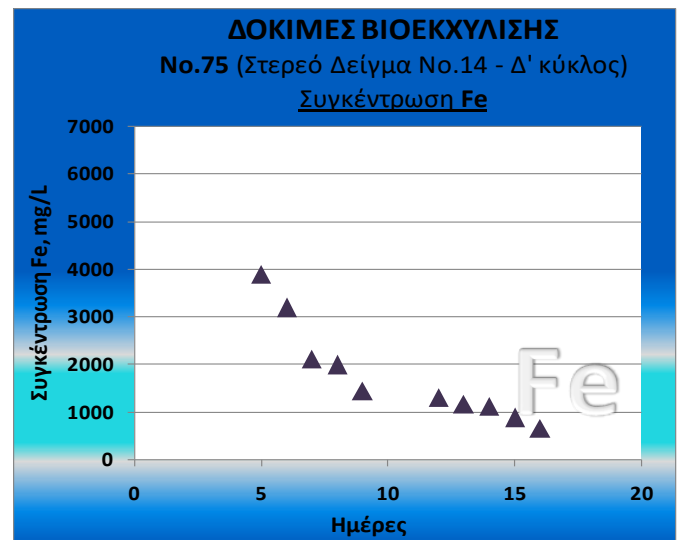
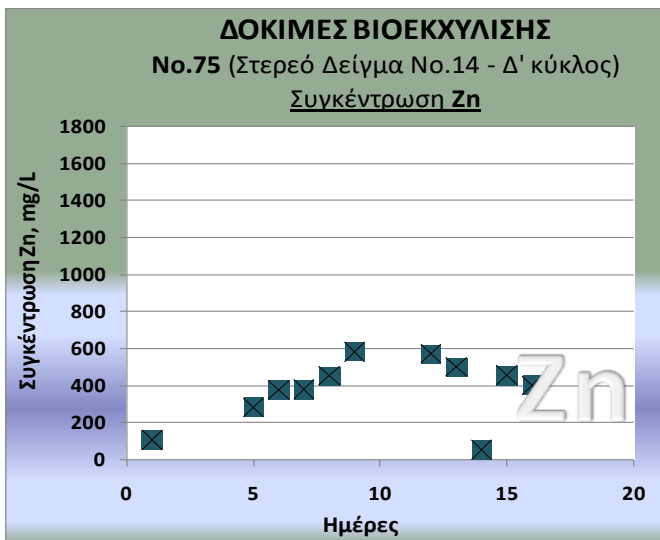
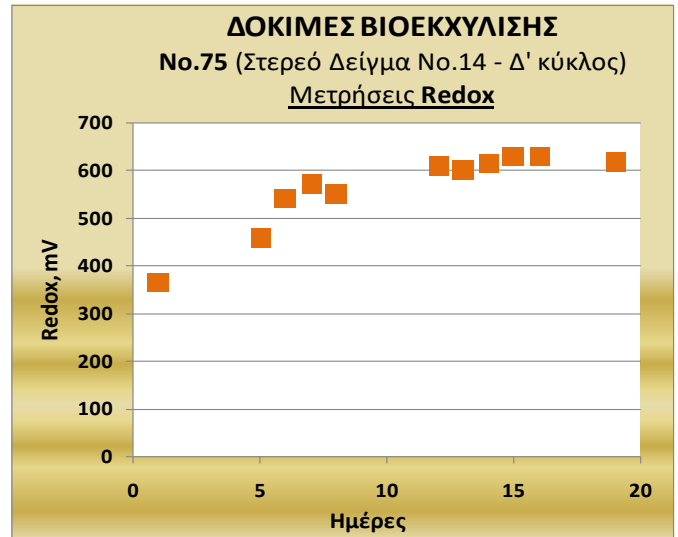
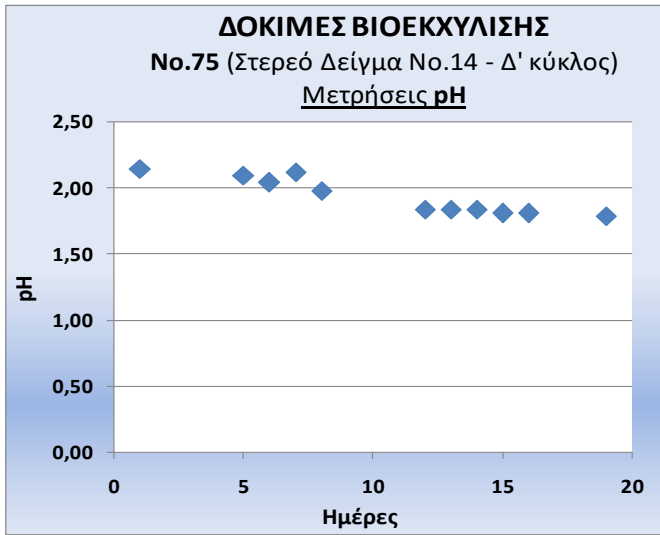


**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.14**  
**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 2,5%**  
**Α' Καλλιέργεια - Δ' Μεταφορά**



**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.14**  
**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 2,5%**  
**Β' Καλλιέργεια - Δ' Μεταφορά**

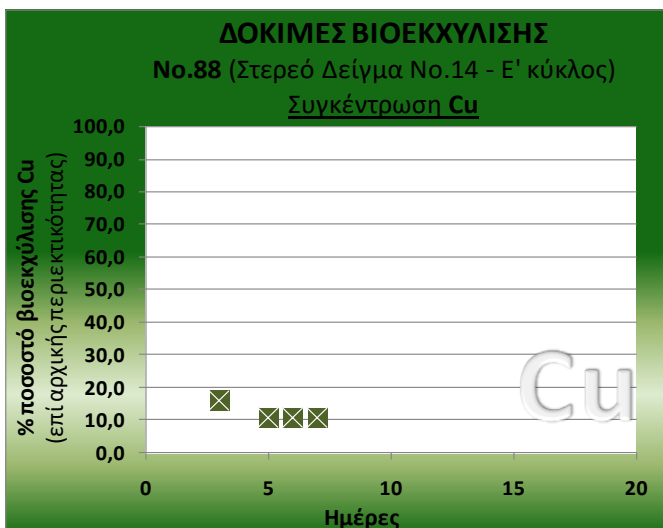
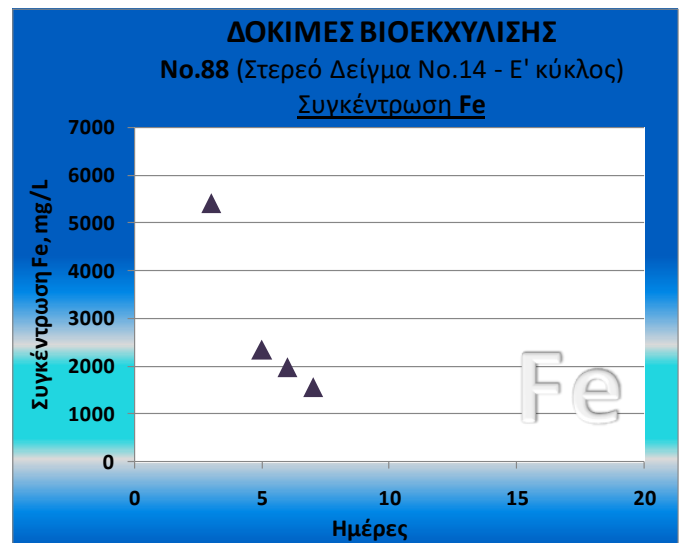
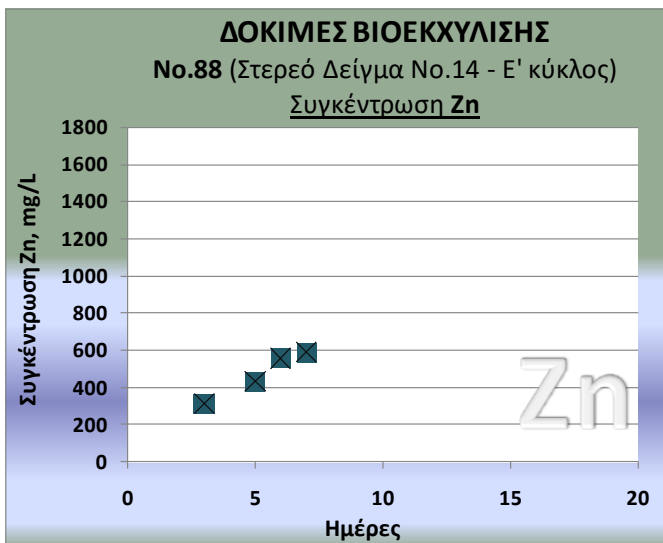
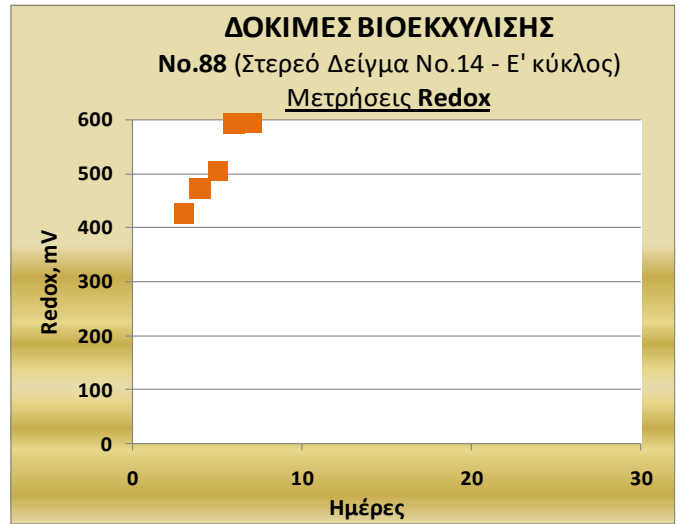
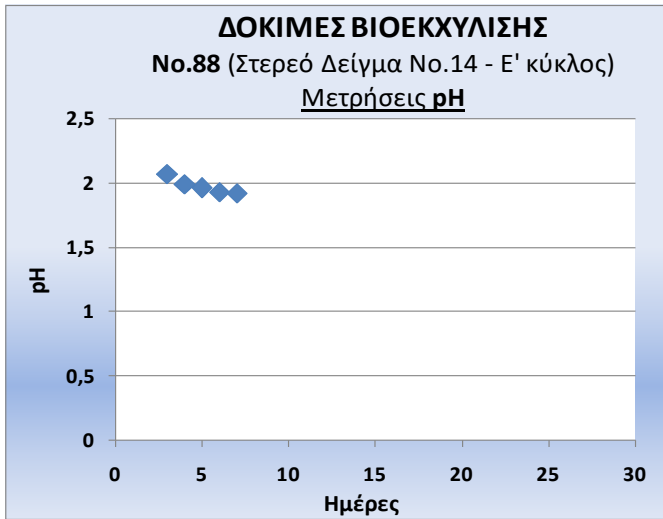




**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.14**

**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 2,5%**

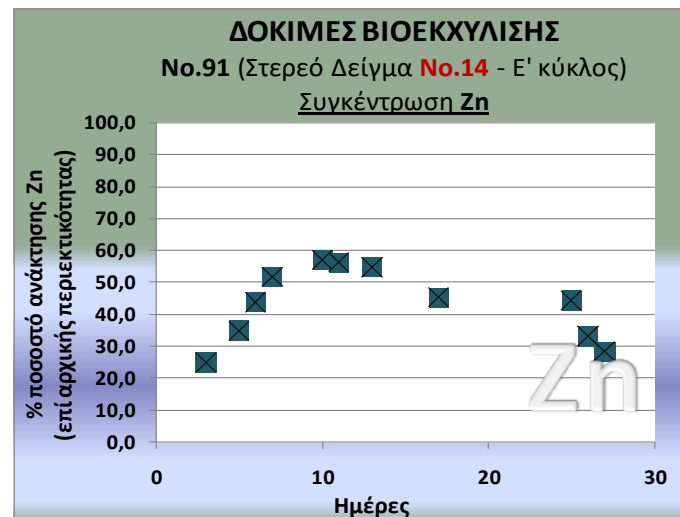
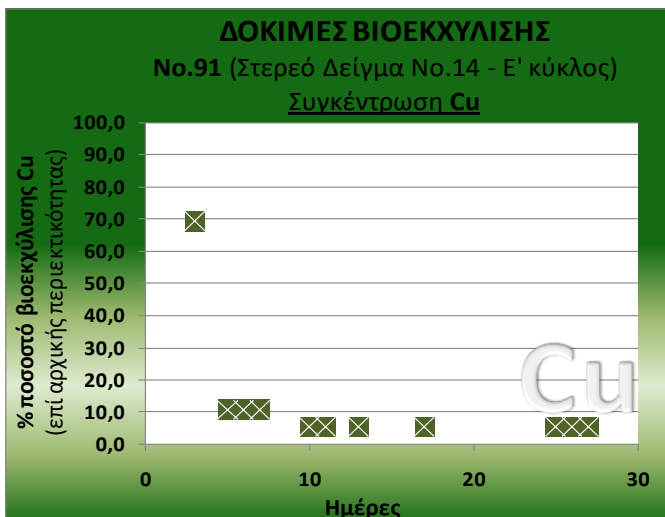
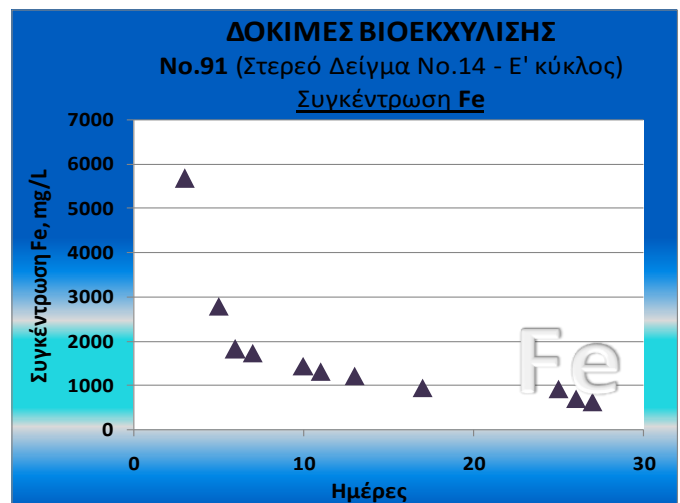
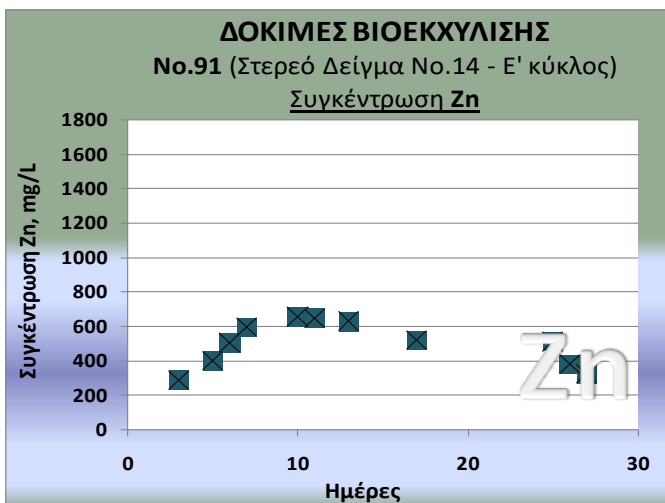
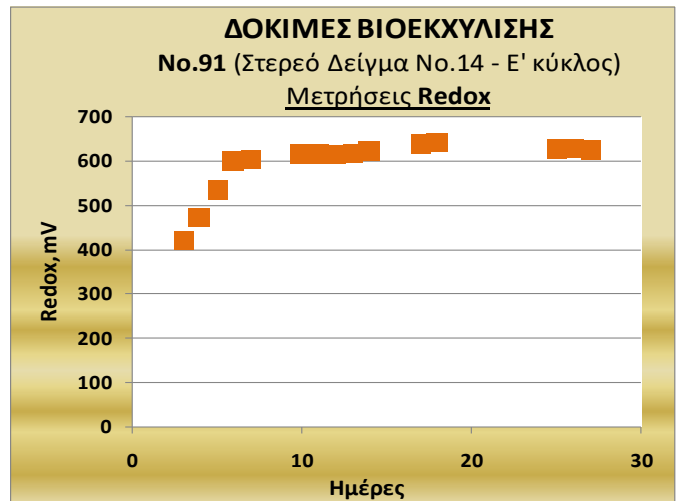
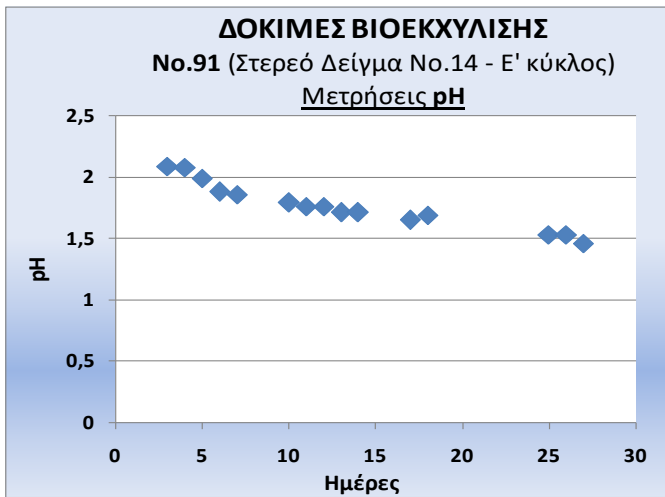
**Α' Καλλιέργεια – Ε' Μεταφορά**



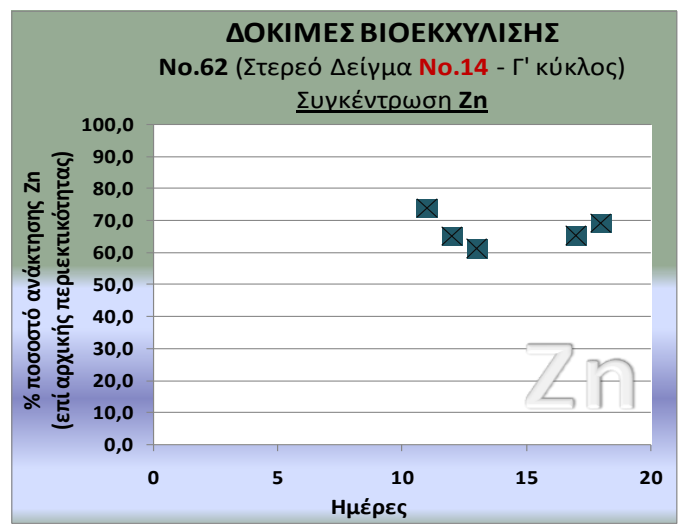
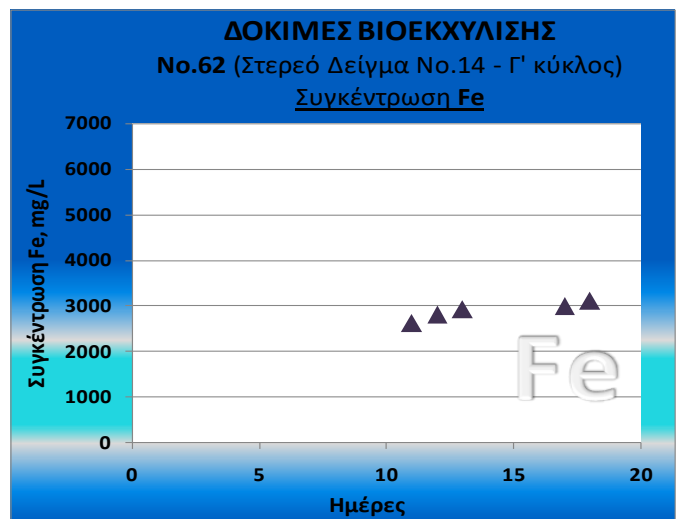
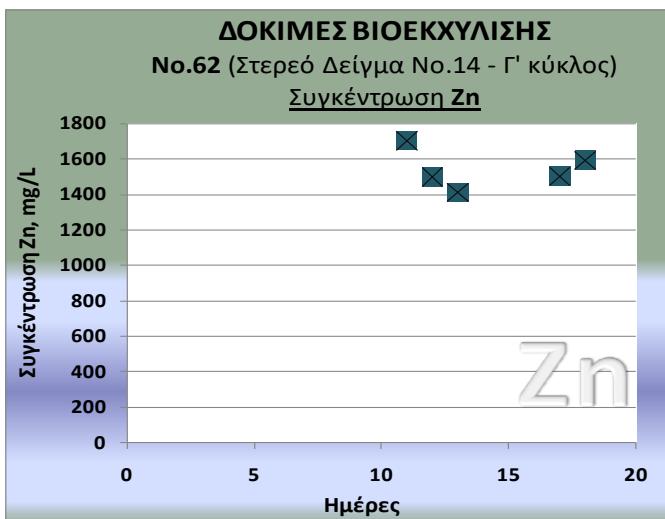
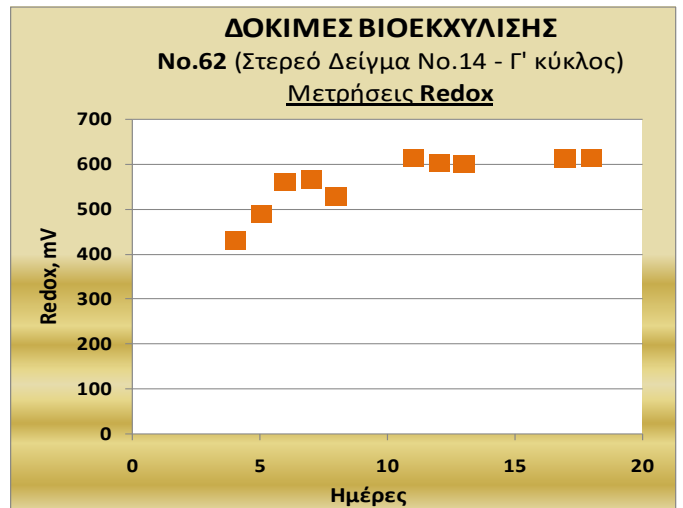
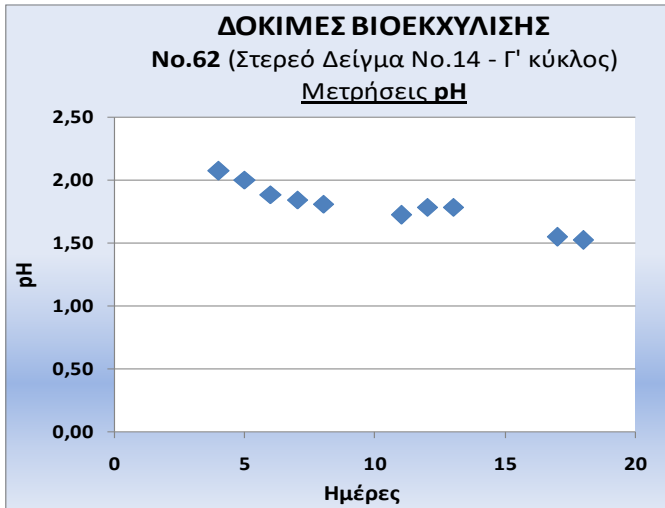
**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.14**

**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 2,5%**

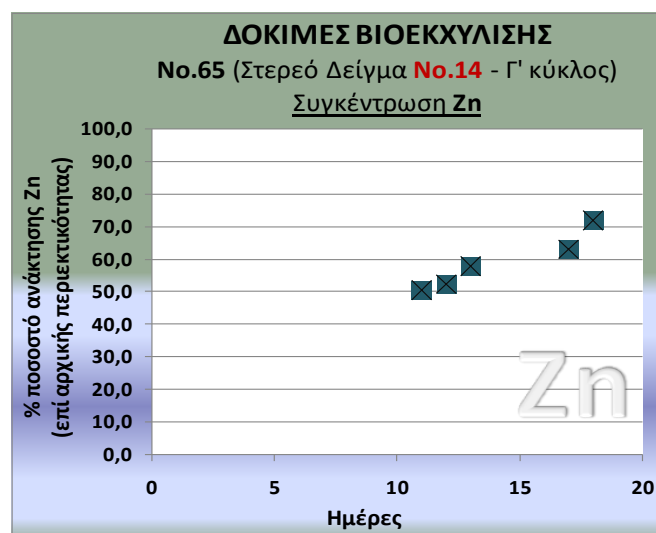
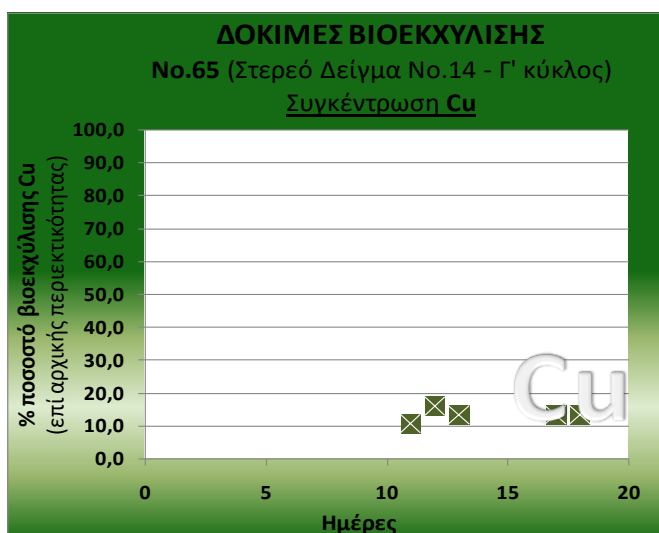
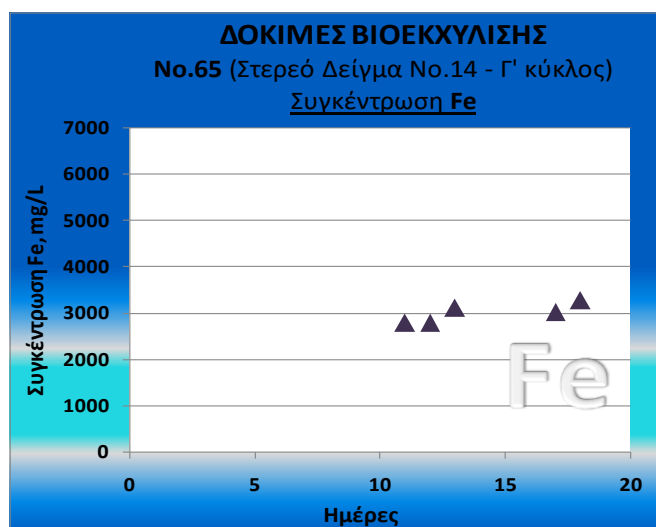
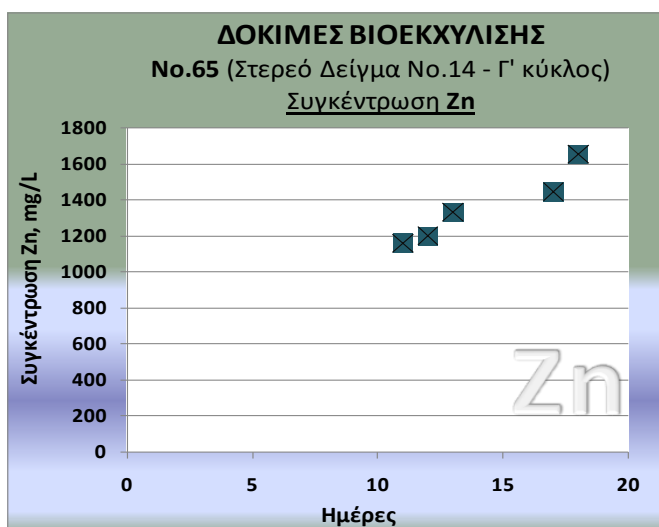
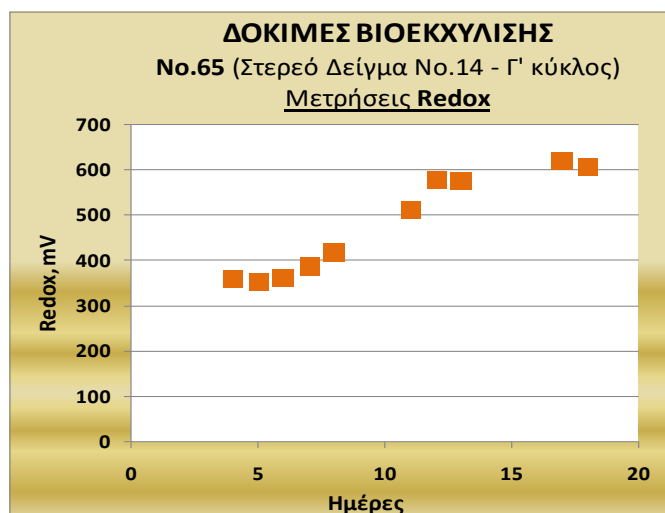
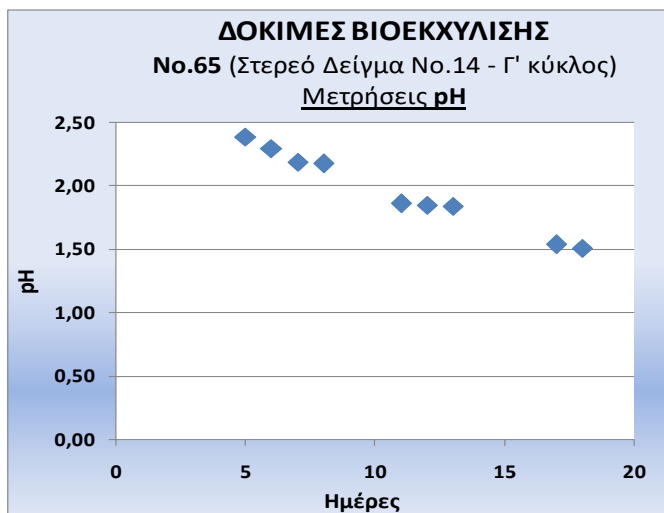
**Β' Καλλιέργεια - Ε' Μεταφορά**



**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.14**  
**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 5%**  
**Α' Καλλιέργεια – Γ' Μεταφορά**



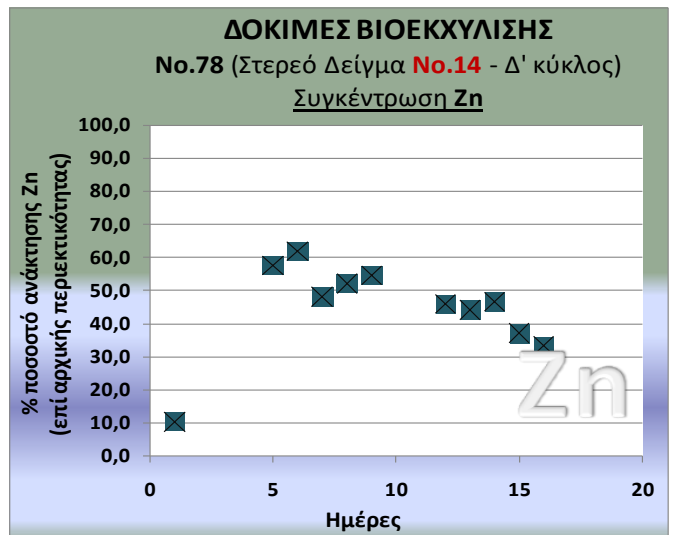
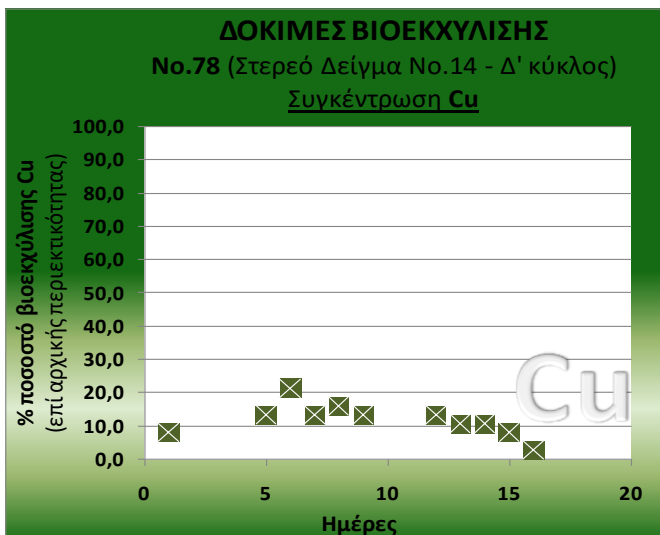
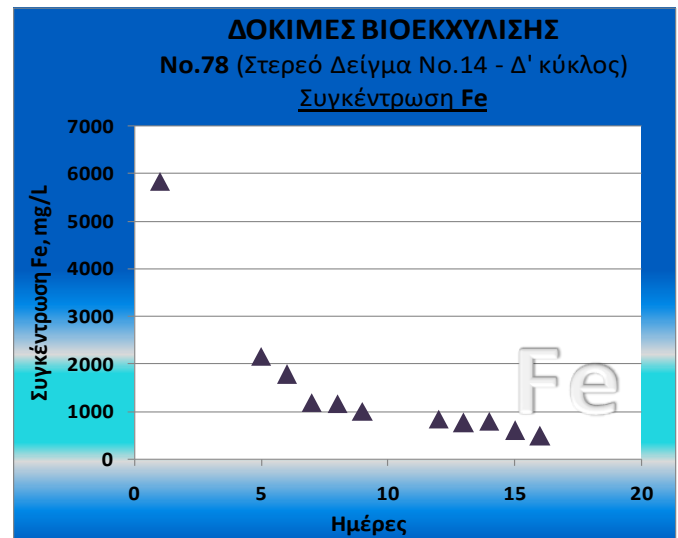
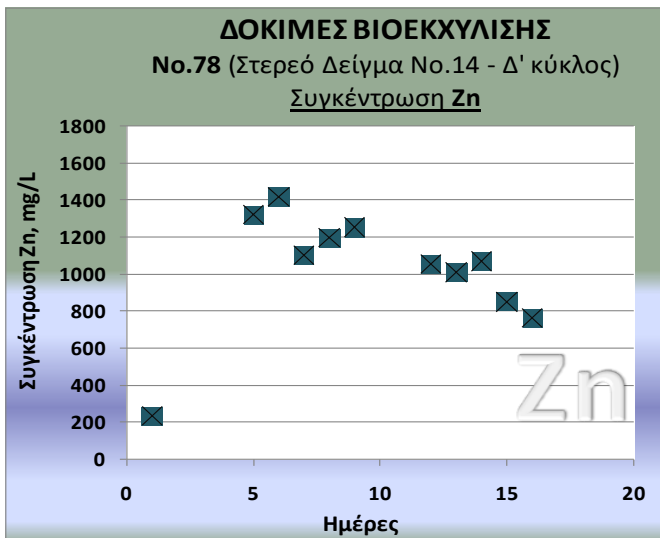
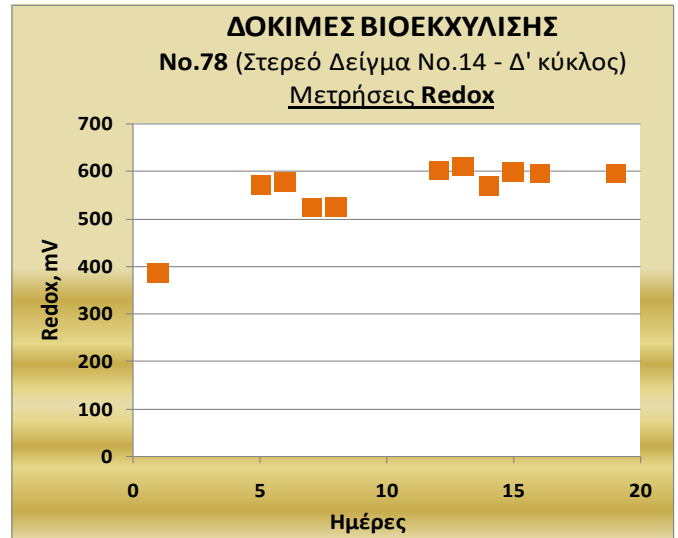
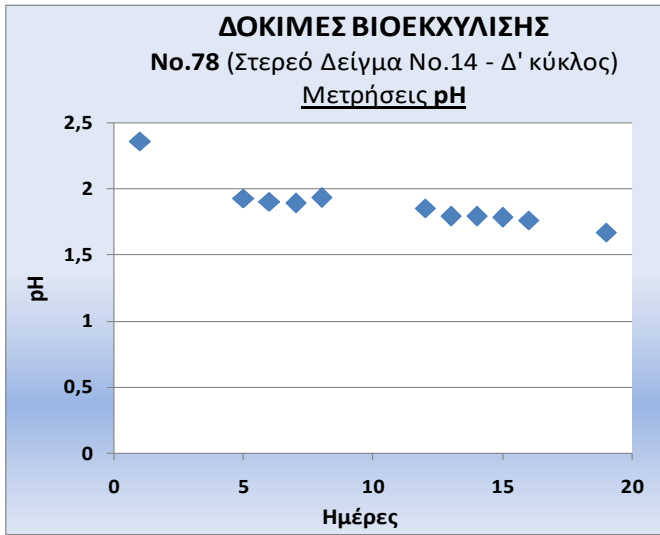
**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.14**  
**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 5%**  
**Β' Καλλιέργεια - Γ' Μεταφορά**



**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.14**

**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 5%**

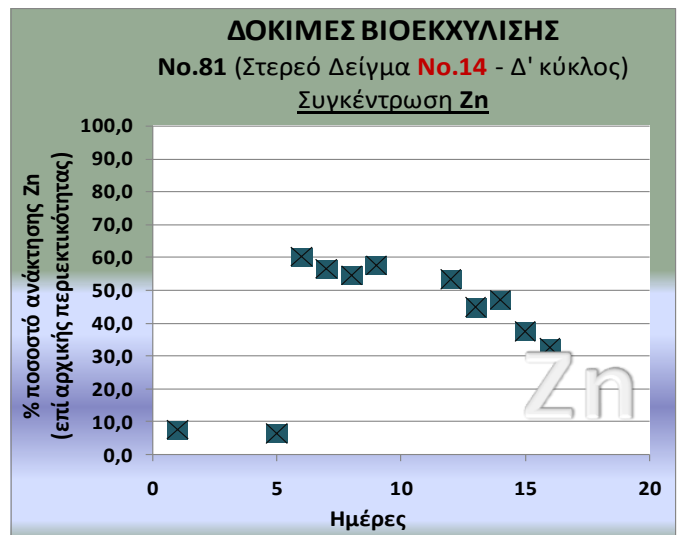
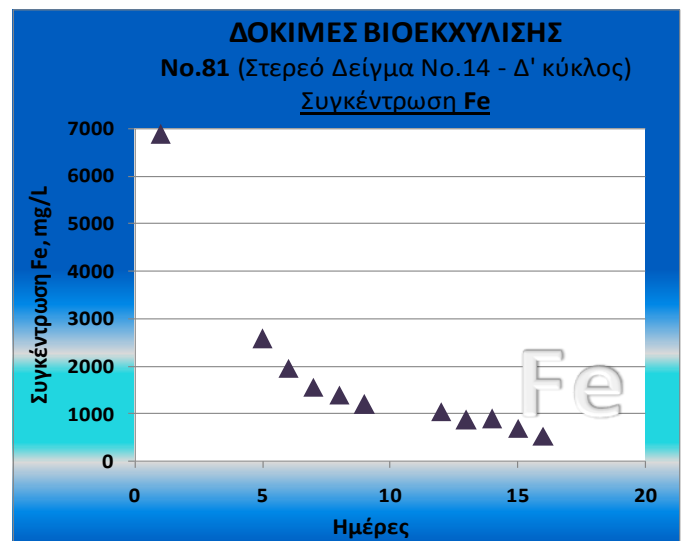
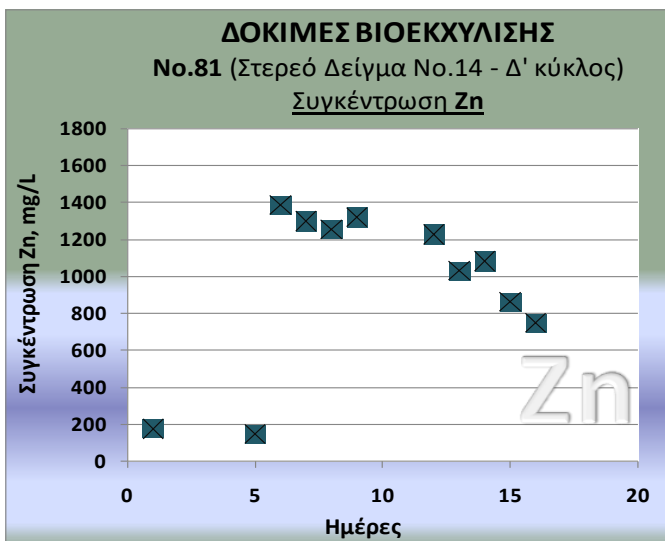
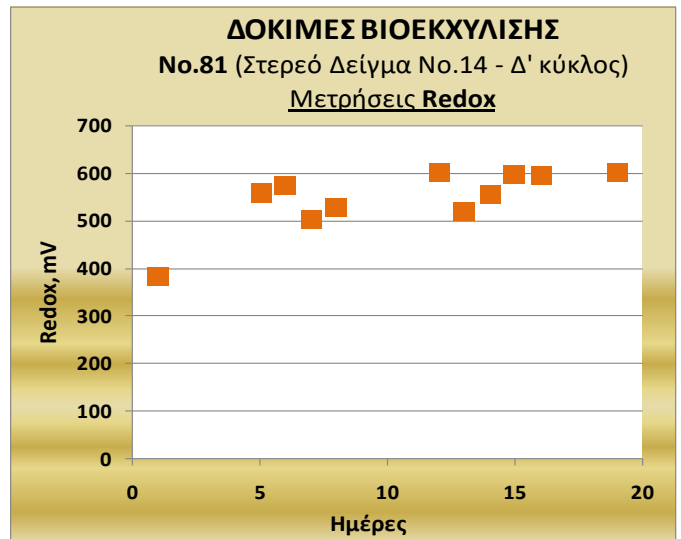
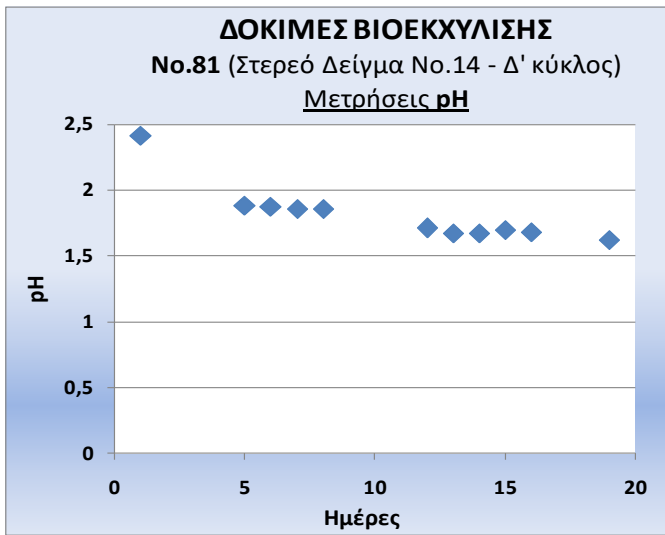
**A' Καλλιέργεια - Δ' Μεταφορά**



**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.14**

**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 5%**

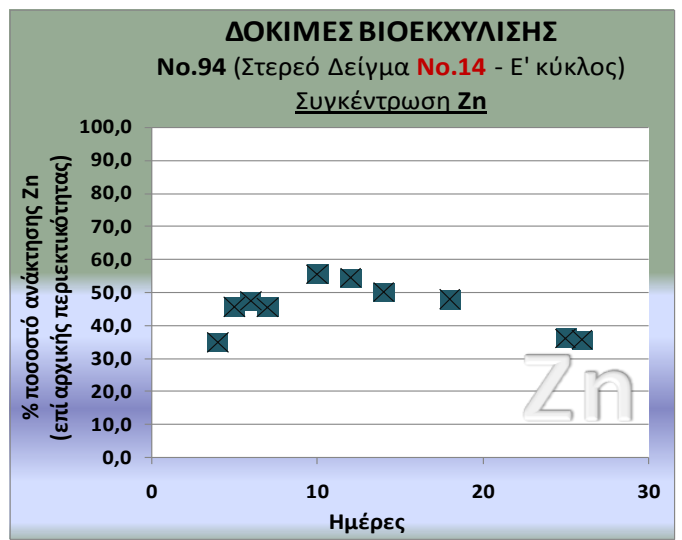
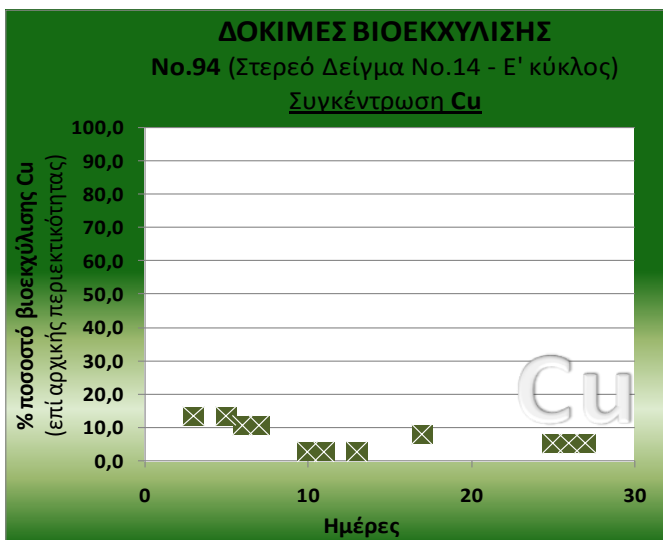
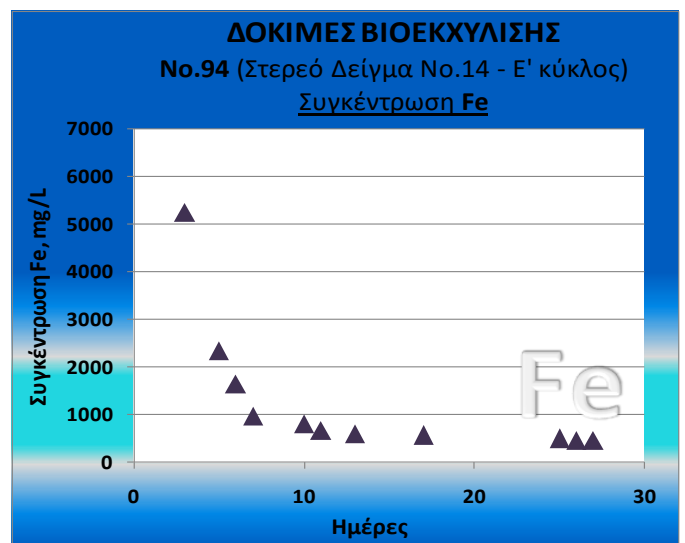
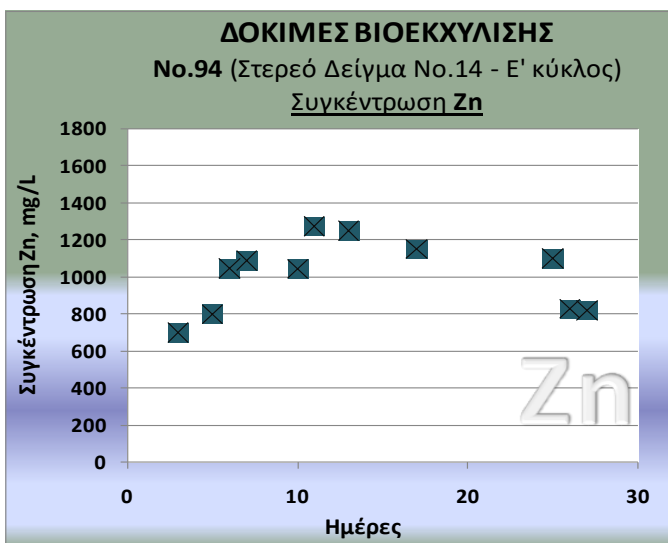
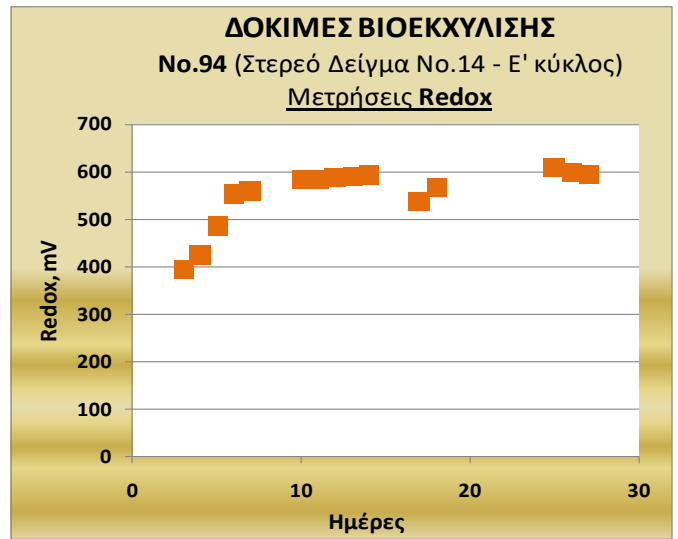
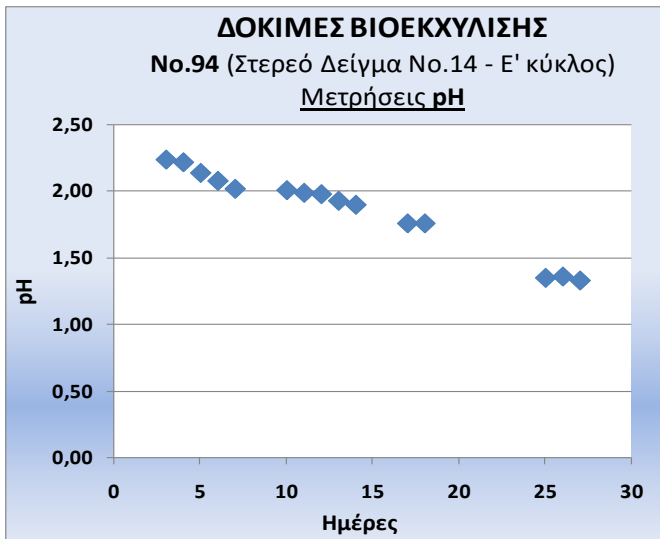
**Β' Καλλιέργεια - Δ' Μεταφορά**



**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.14**

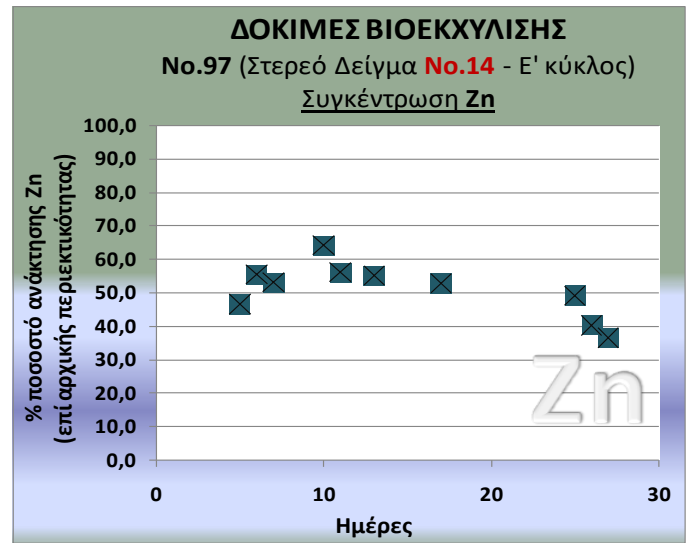
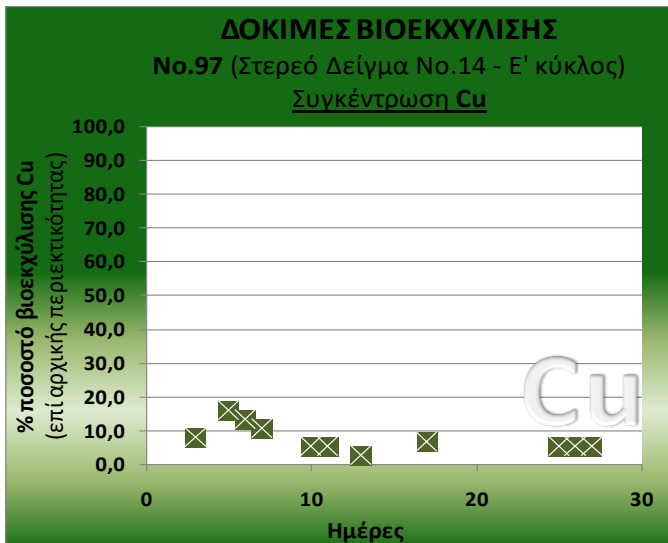
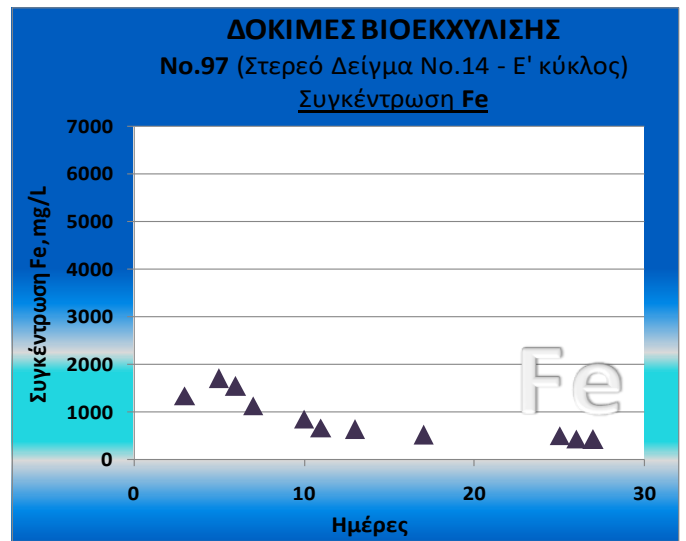
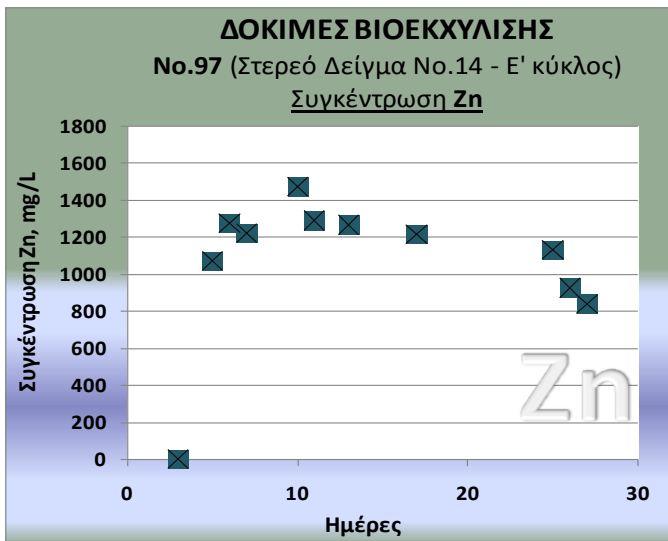
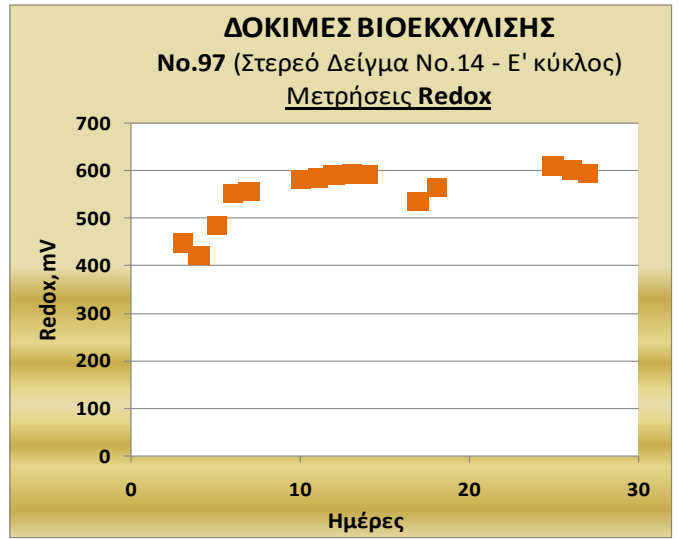
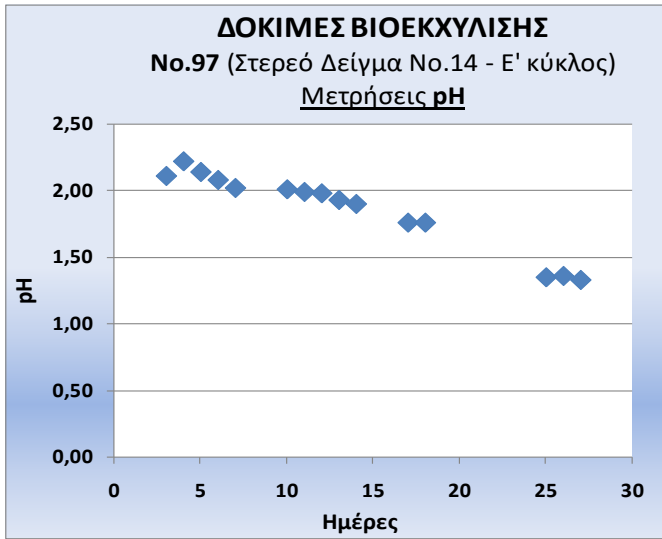
**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 5%**

**A' Καλλιέργεια - E' Μεταφορά**



**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.14**  
**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 5%**  
**Β' Καλλιέργεια - Ε' Μεταφορά**



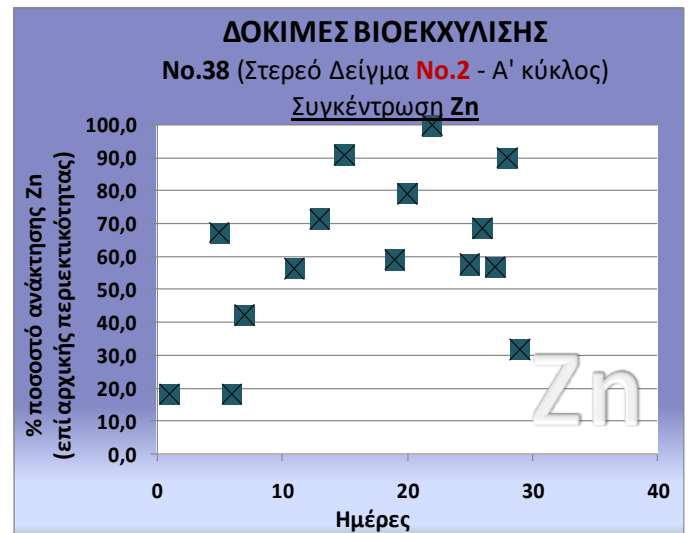
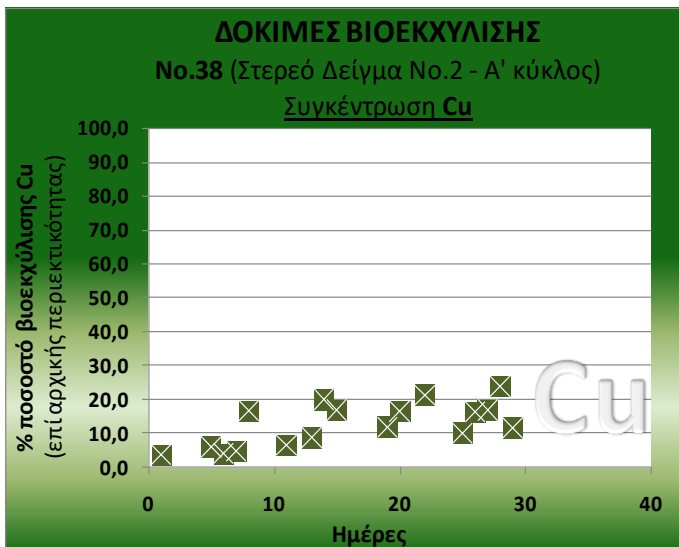
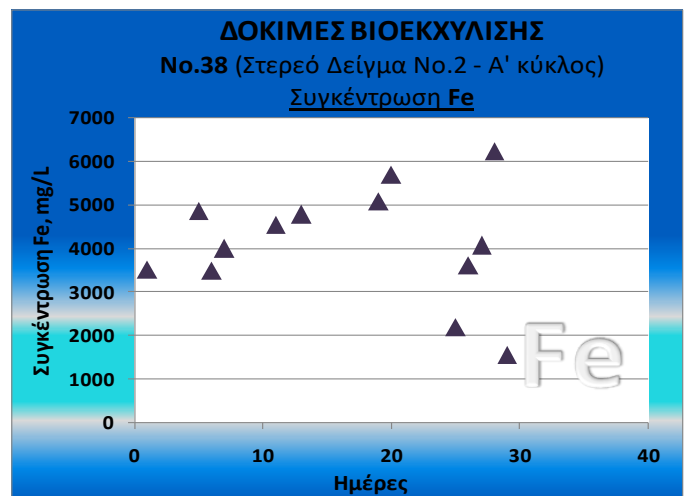
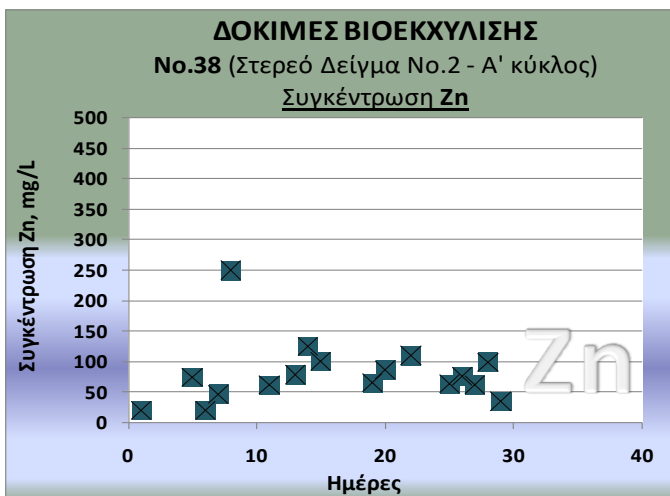
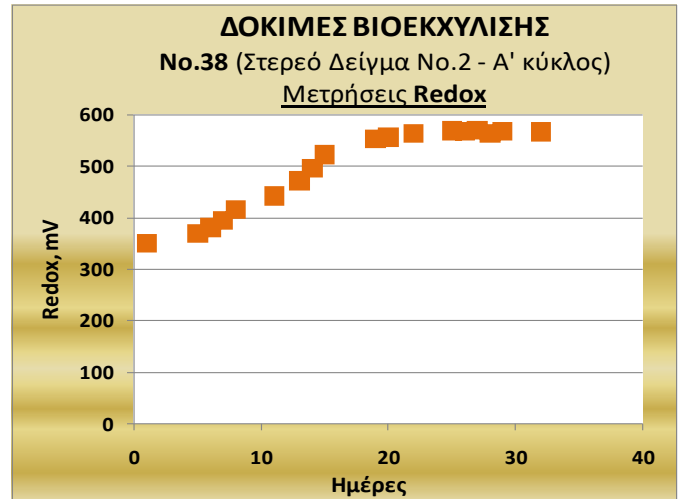
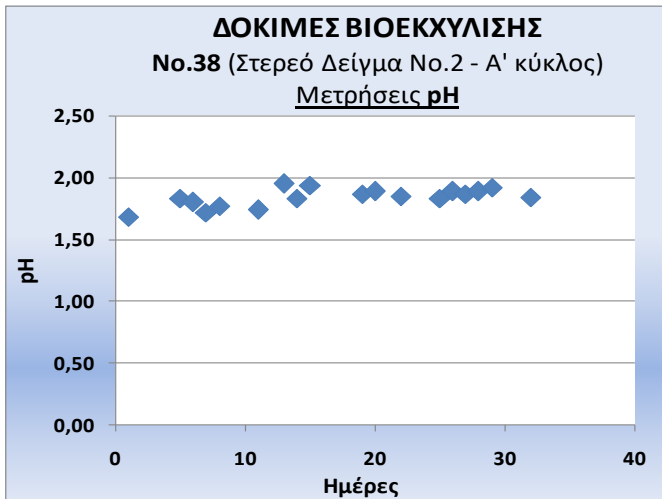


# **ΔΟΚΙΜΕΣ 2015-2016**

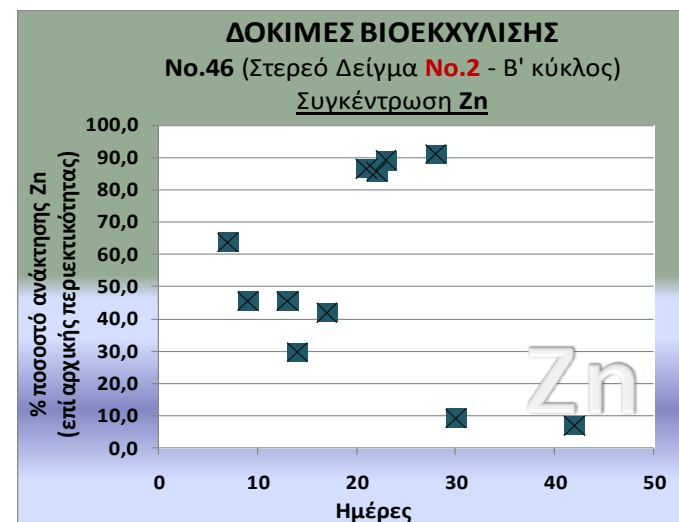
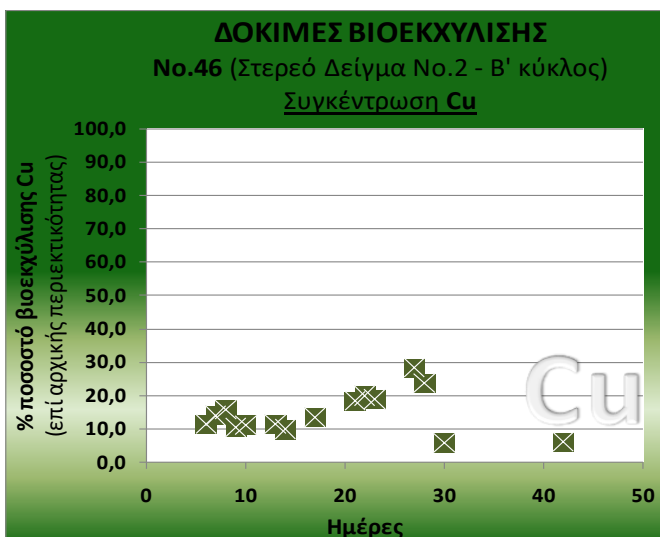
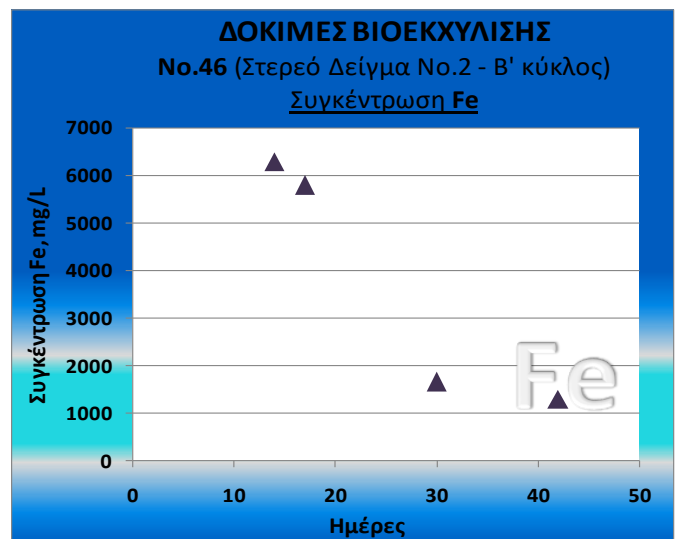
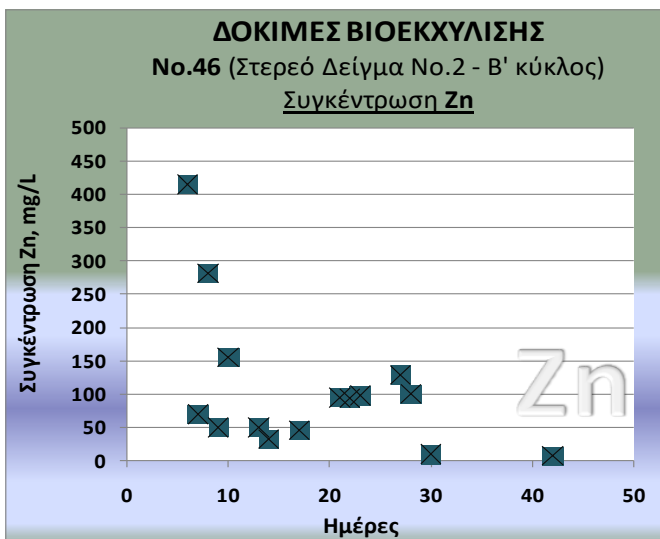
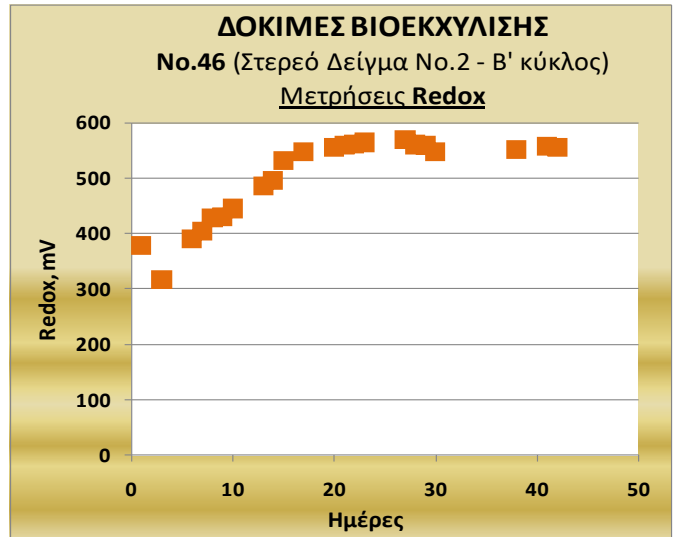
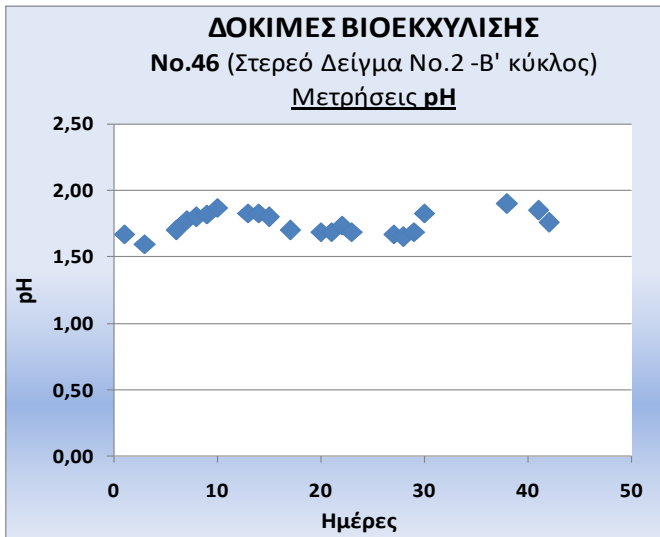
**ΣΤΕΡΕΟ ΔΕΙΓΜΑ Νο.2**

**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 5%**

**Α' Μεταφορά**



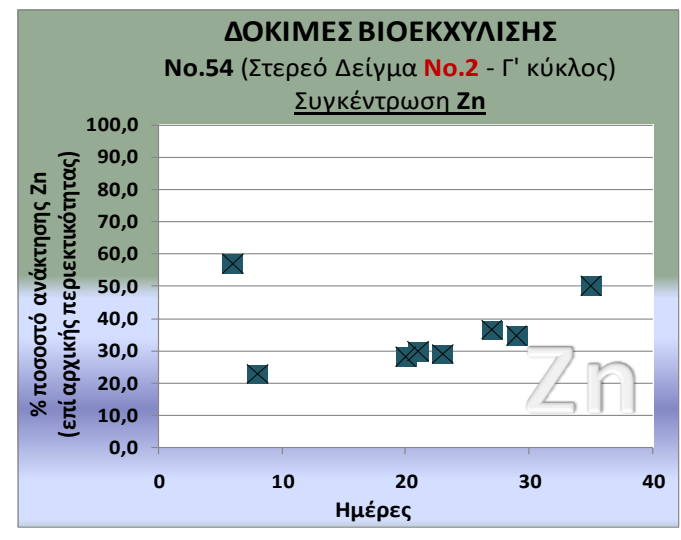
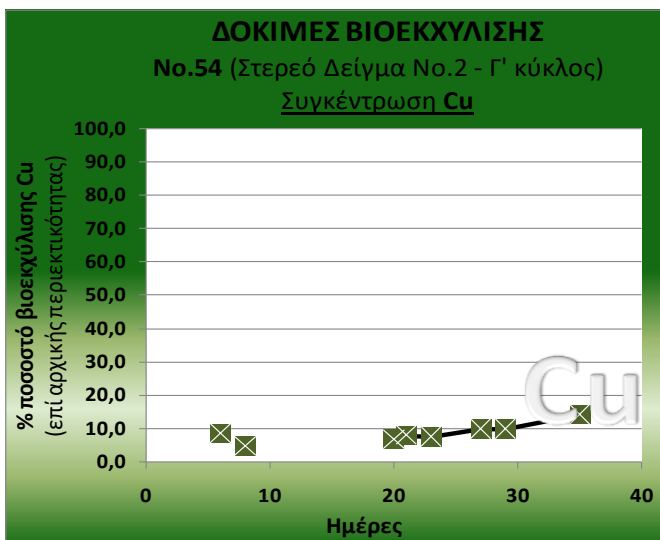
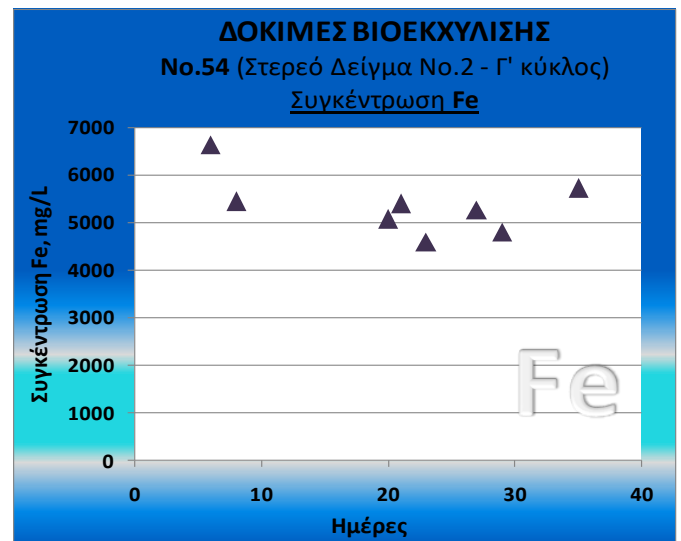
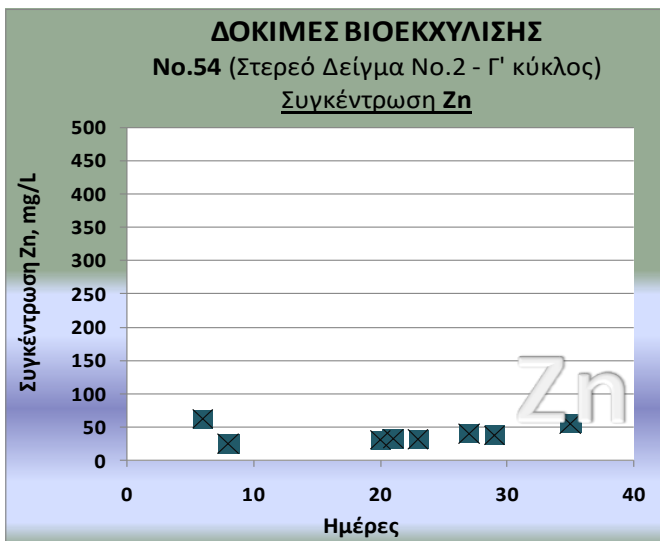
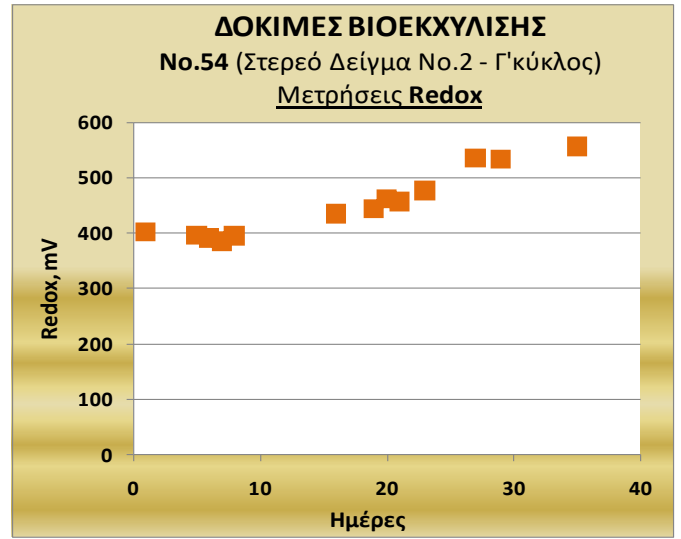
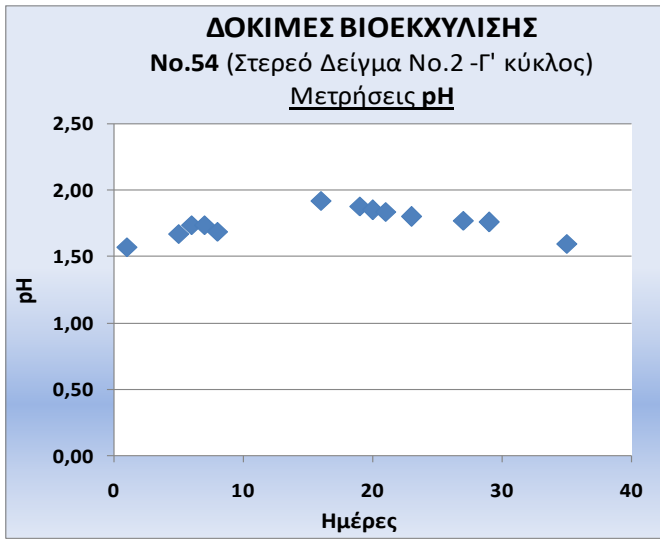
**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.2**  
**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 5%**  
**B' Μεταφορά**



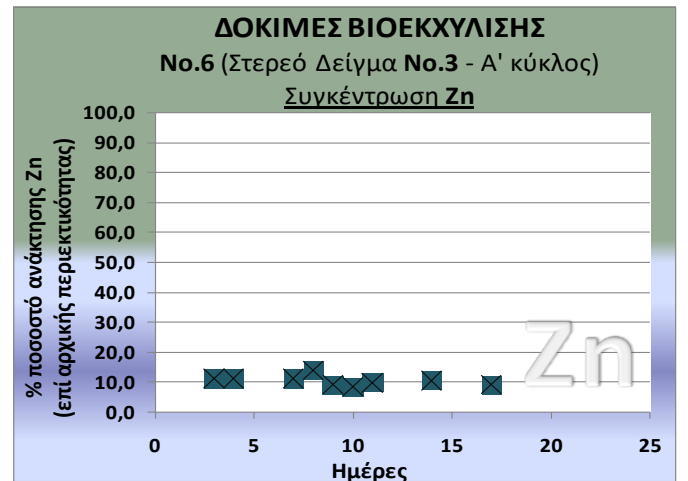
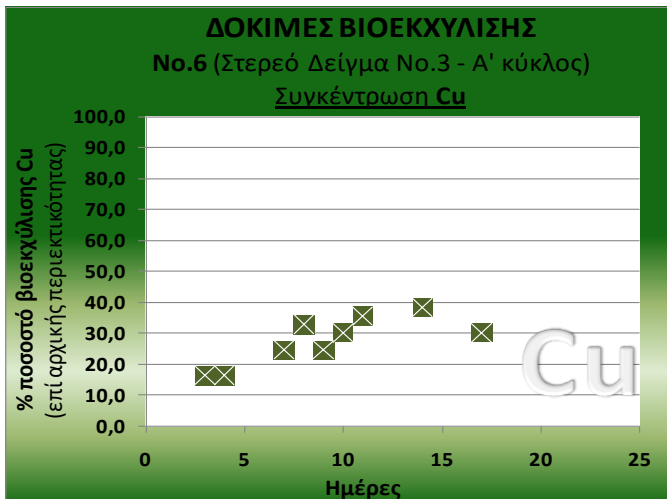
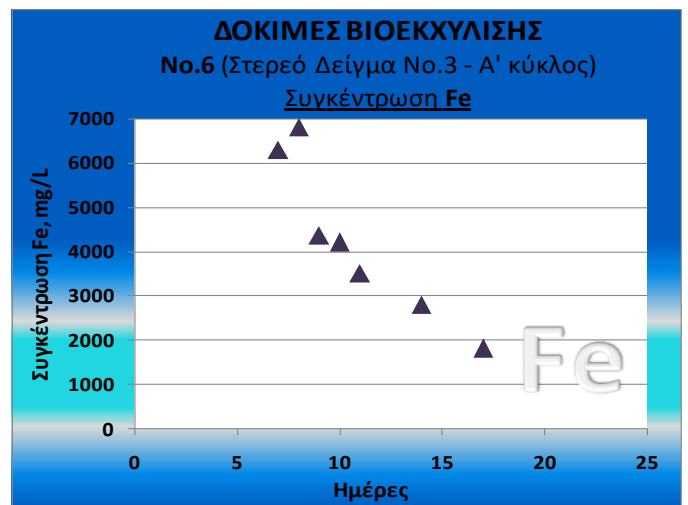
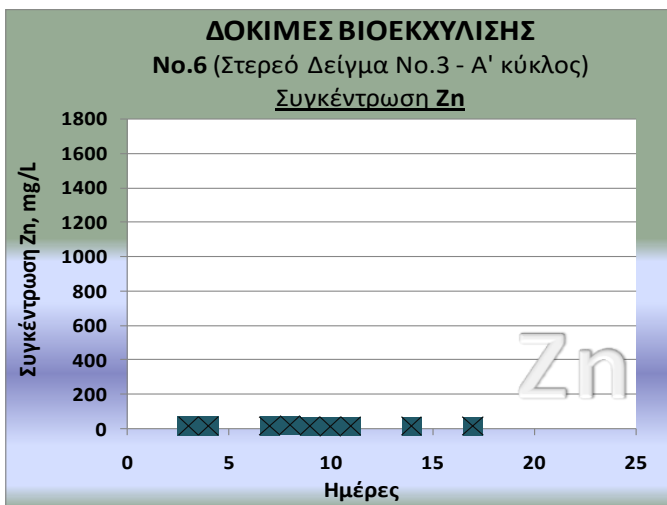
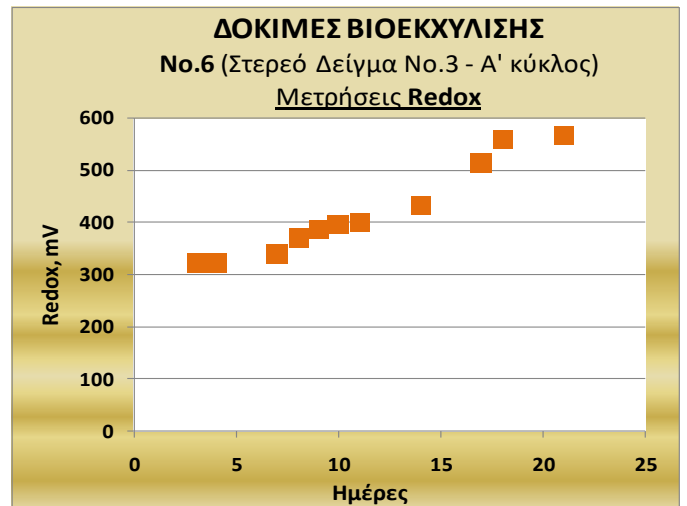
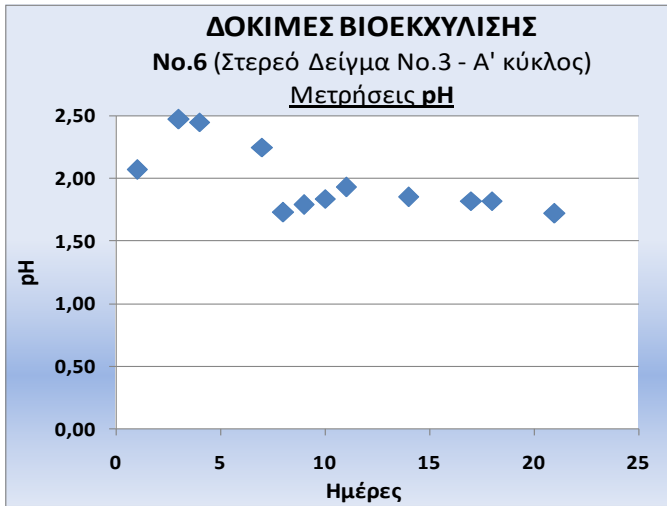
**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.2**

**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 5%**

**Γ' Μεταφορά**



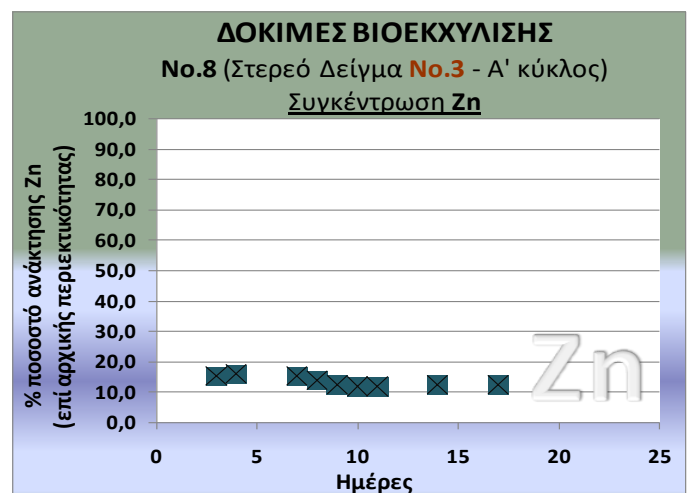
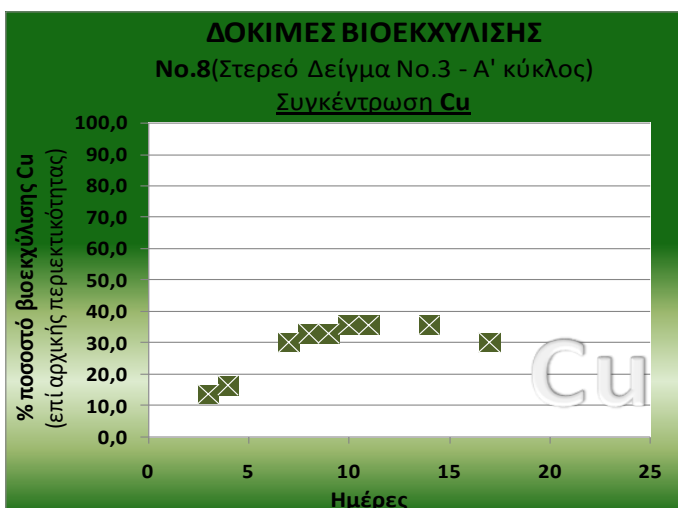
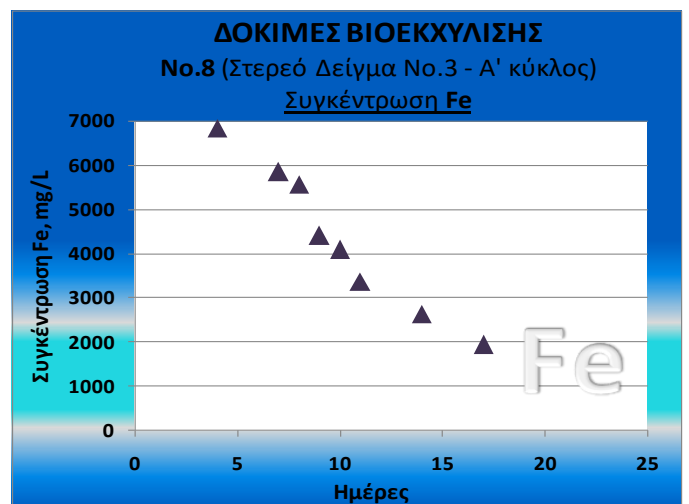
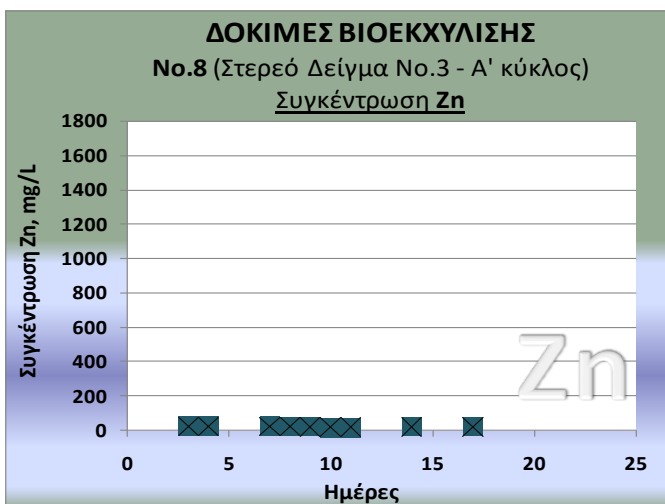
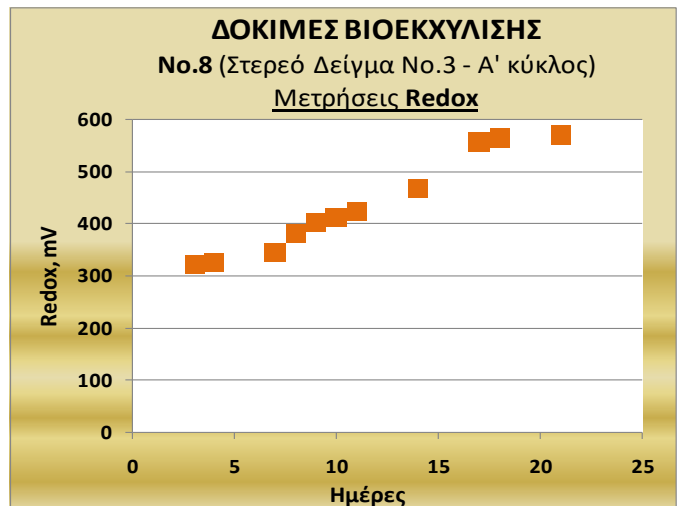
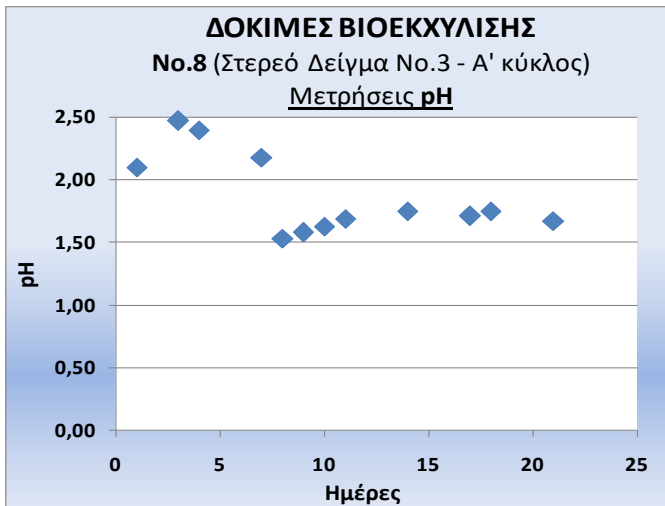
**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.3**  
**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 5%**  
**A' Καλλιέργεια - A' Μεταφορά**



**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.3**

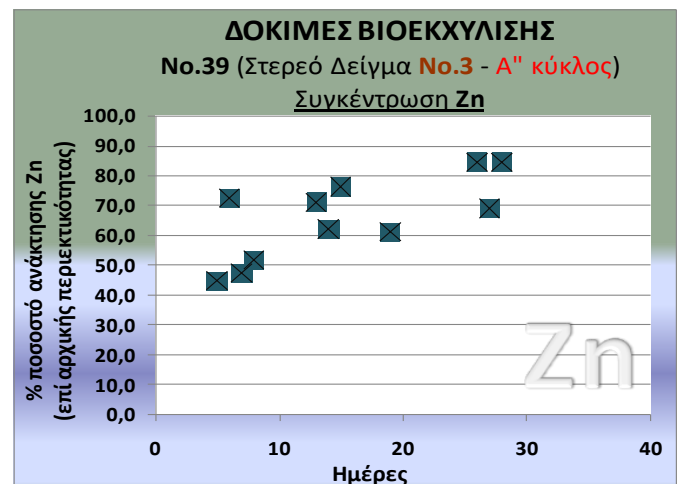
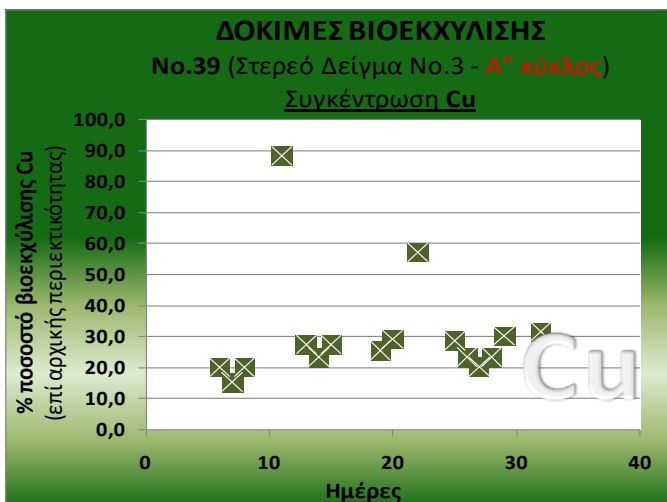
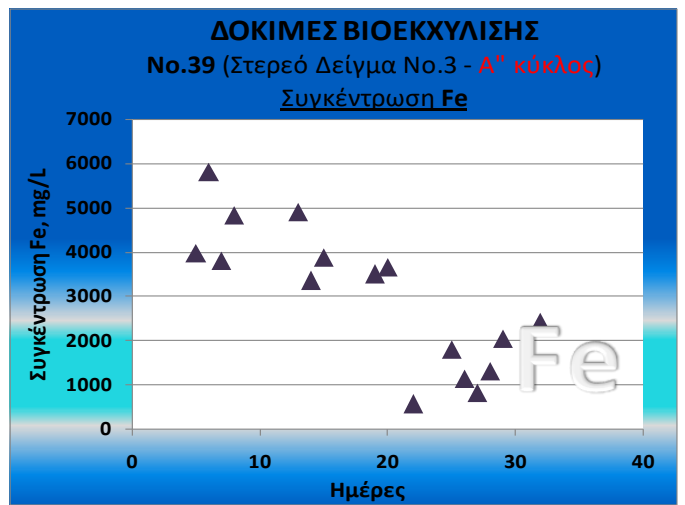
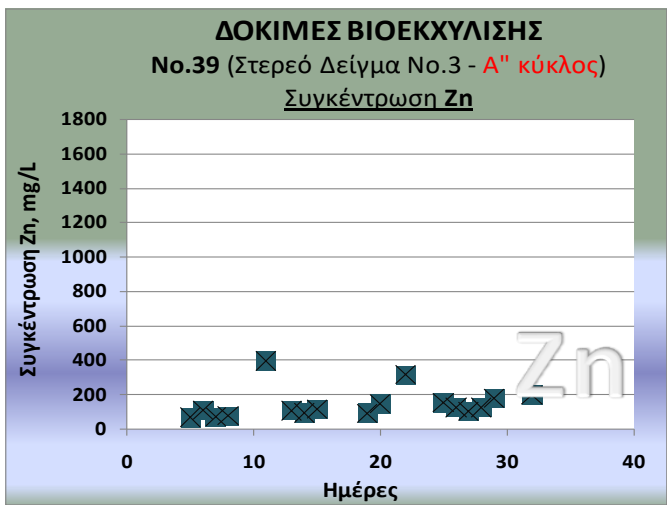
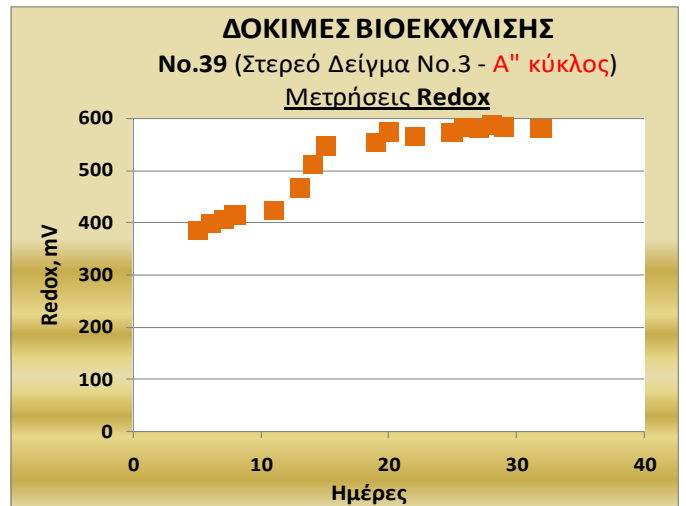
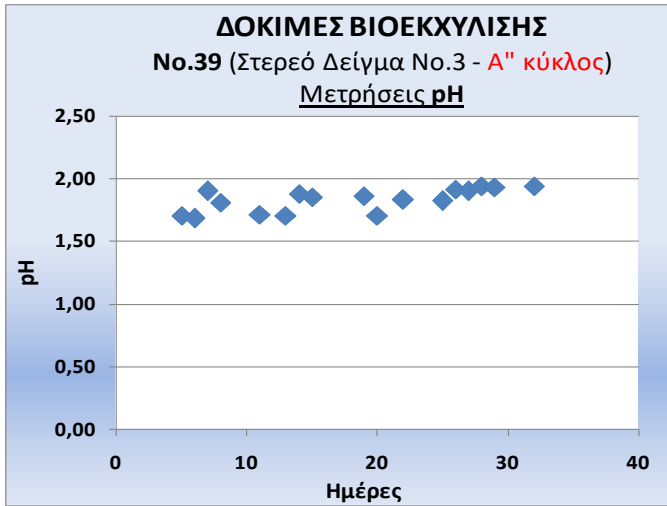
**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 5%**

## Β' Καλλιέργεια – Α' Μεταφορά



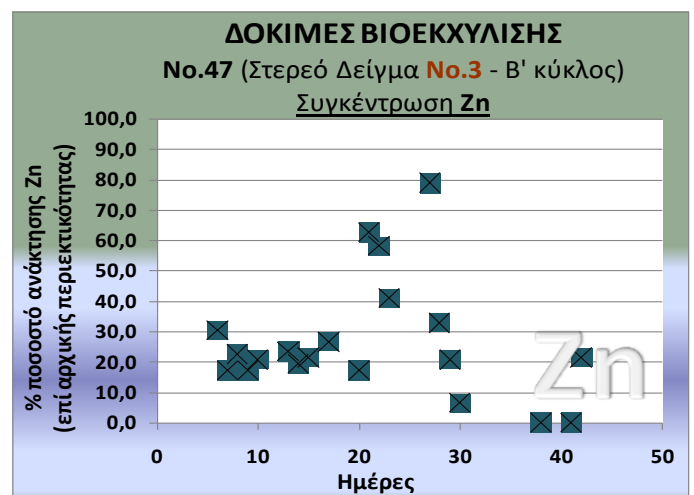
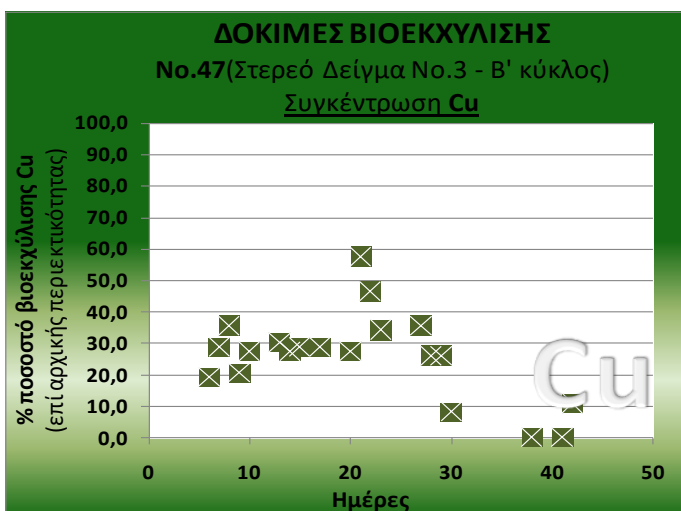
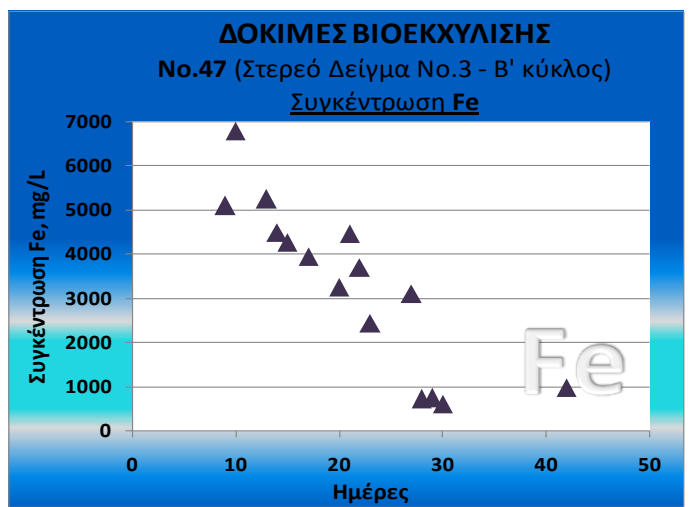
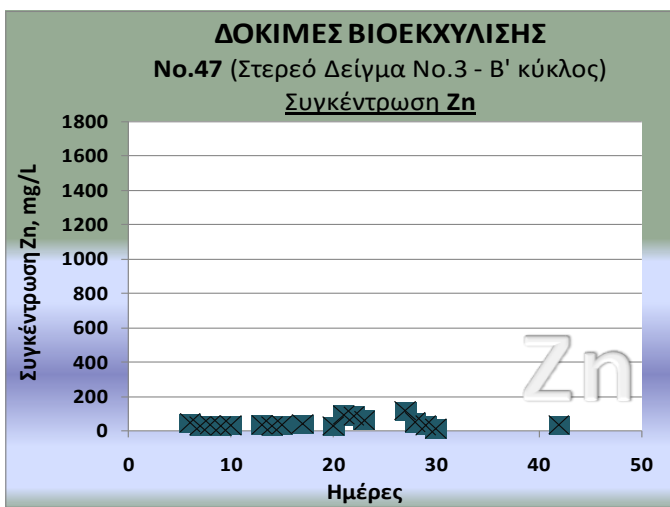
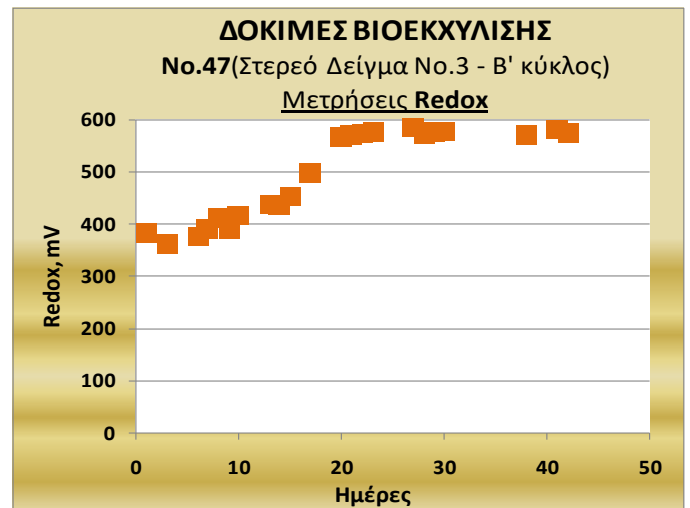
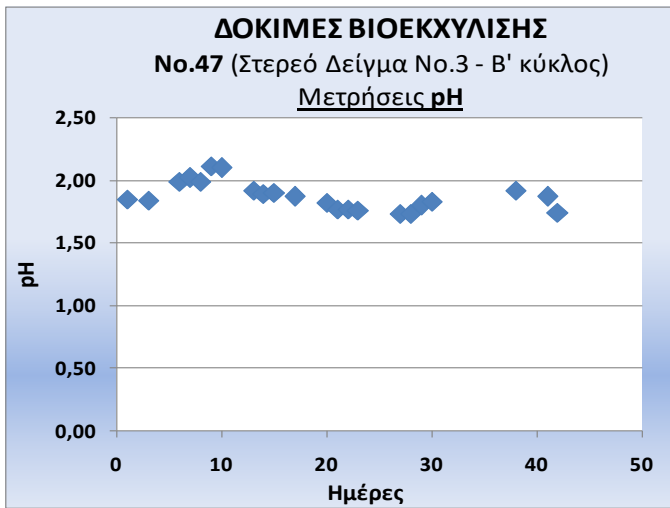
**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.3**  
**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 5%**

## Γ' Καλλιέργεια – Α' Μεταφορά



**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.3**  
**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 5%**  
**Γ' Καλλιέργεια – Β' Μεταφορά**

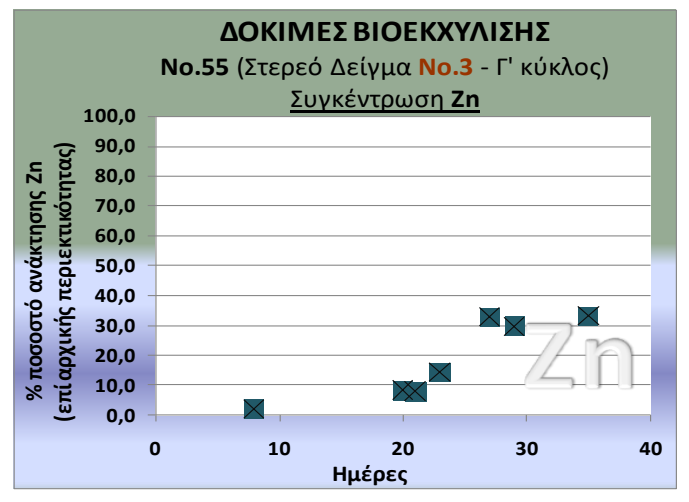
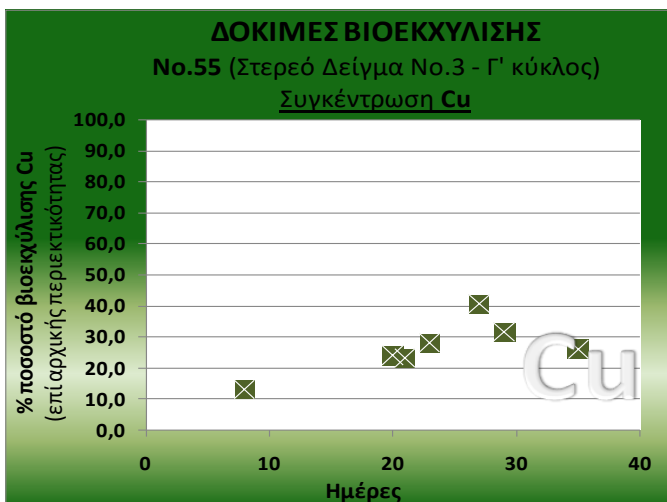
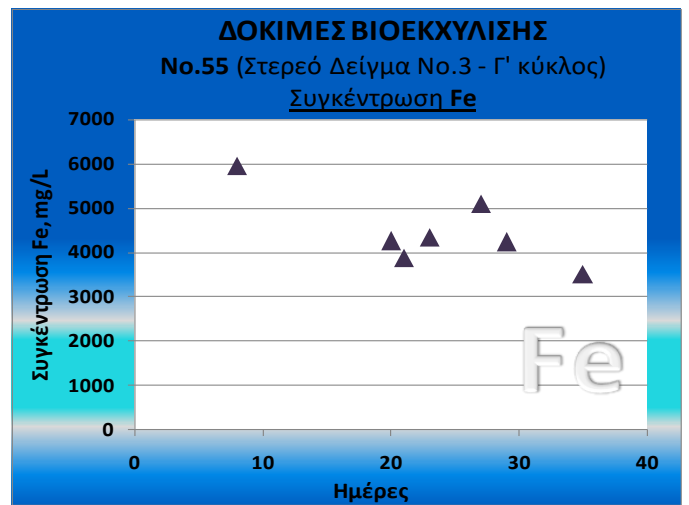
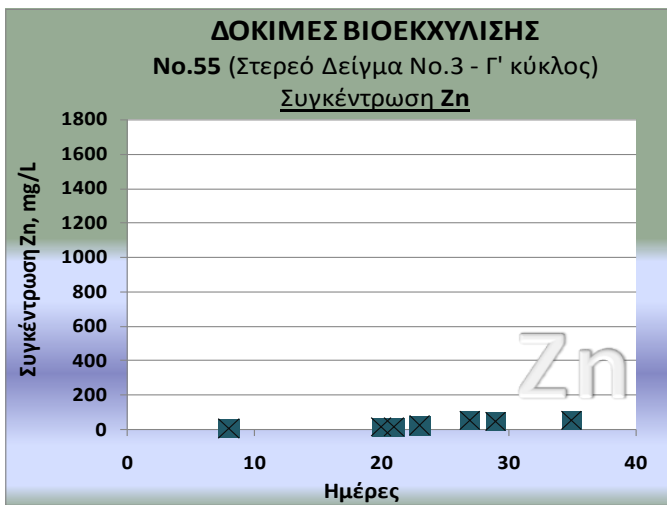
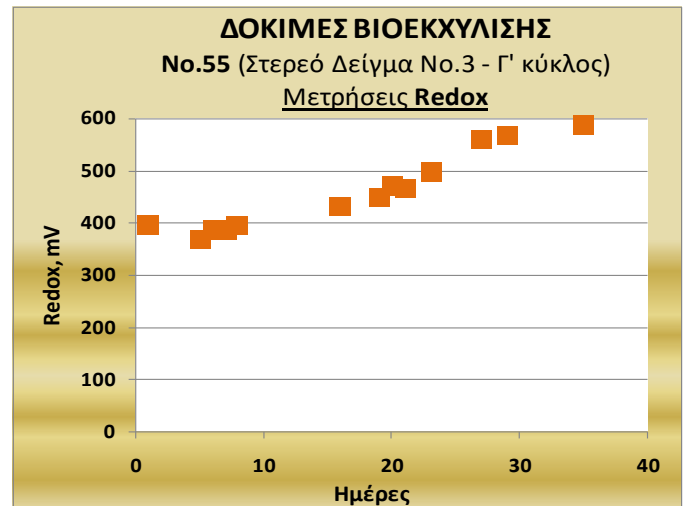
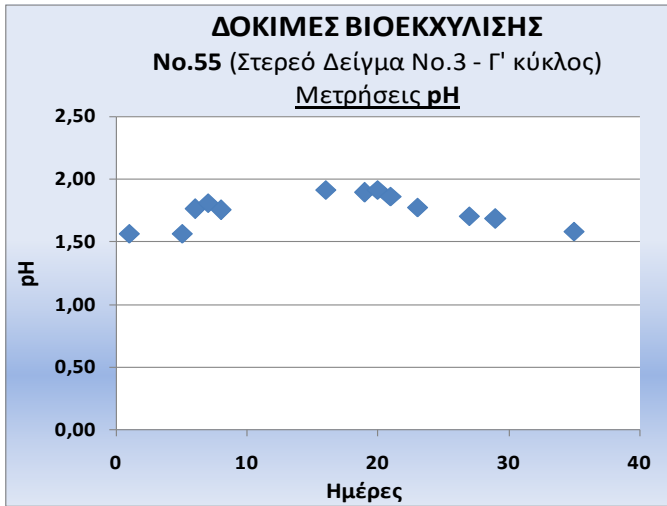




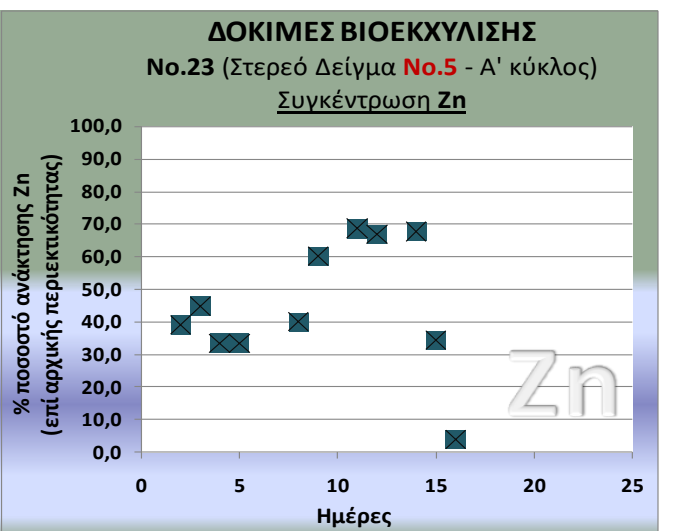
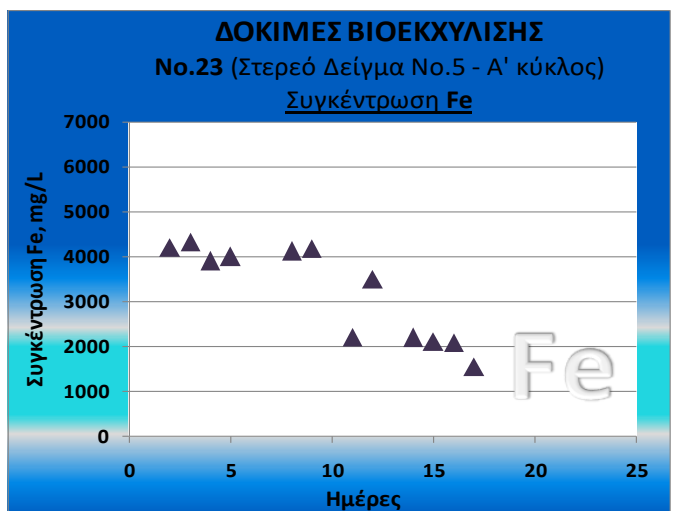
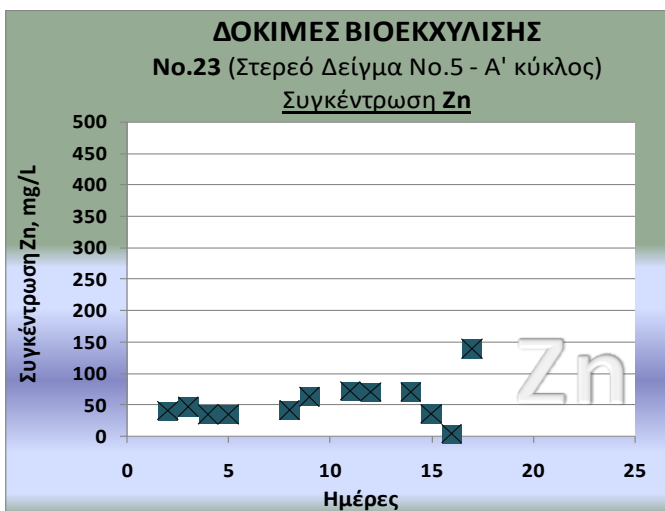
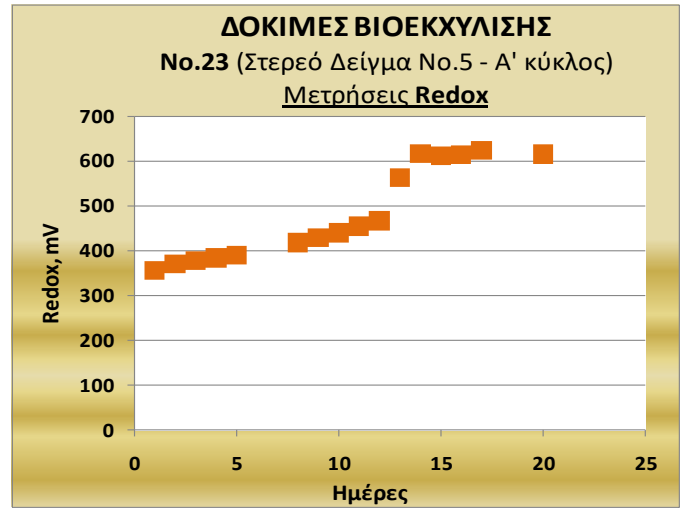
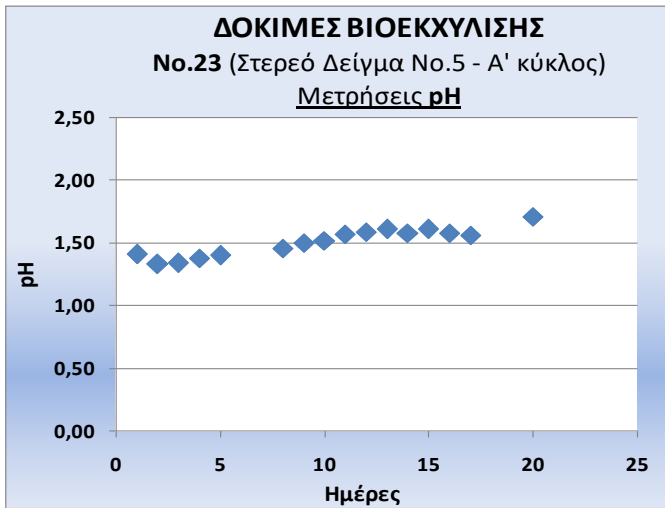
**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.3**

**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 5%**

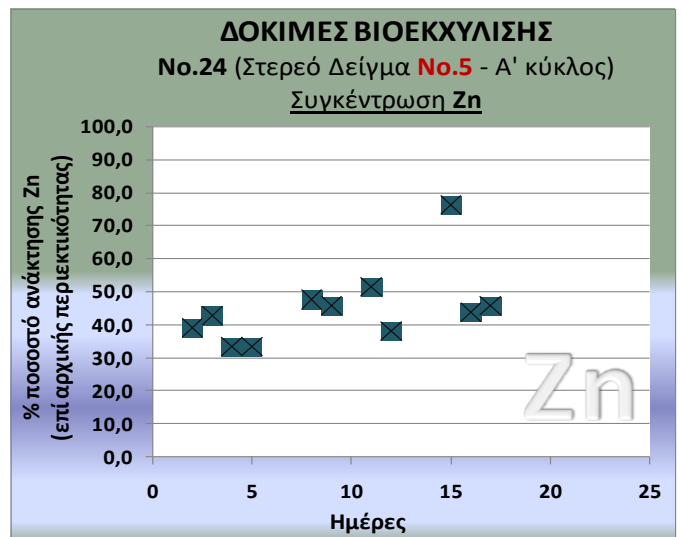
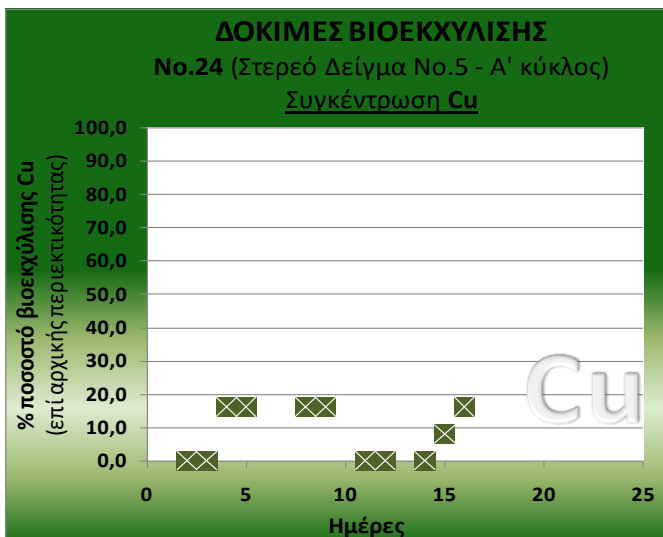
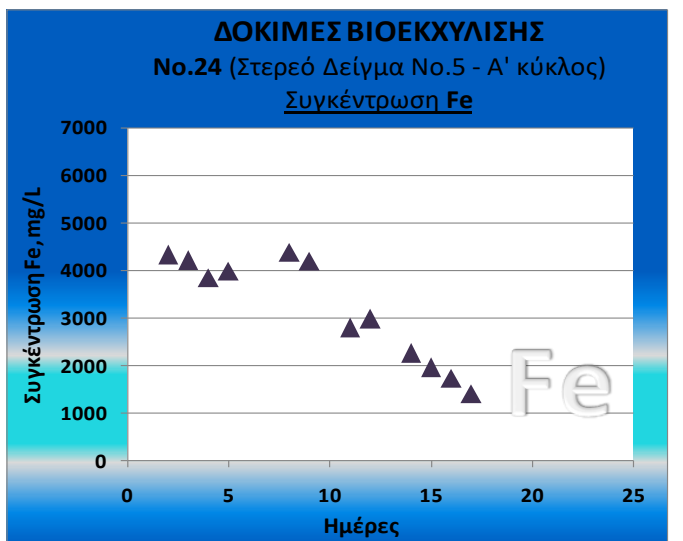
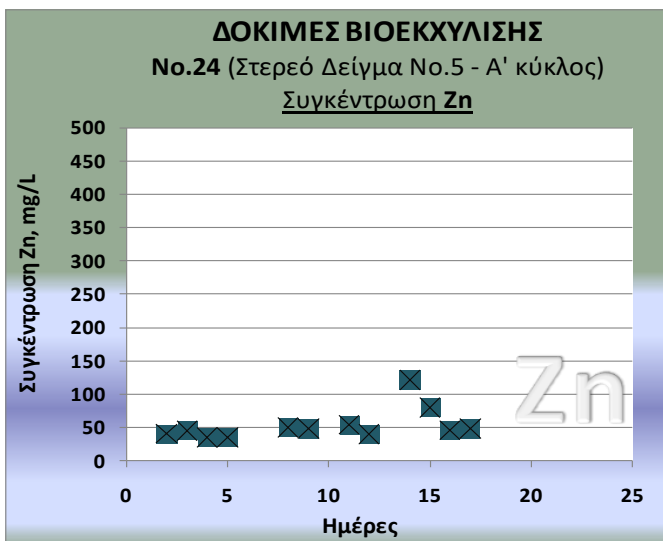
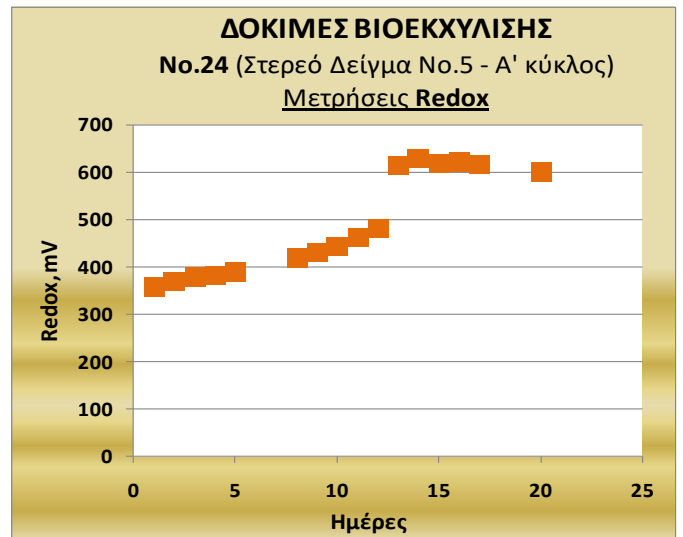
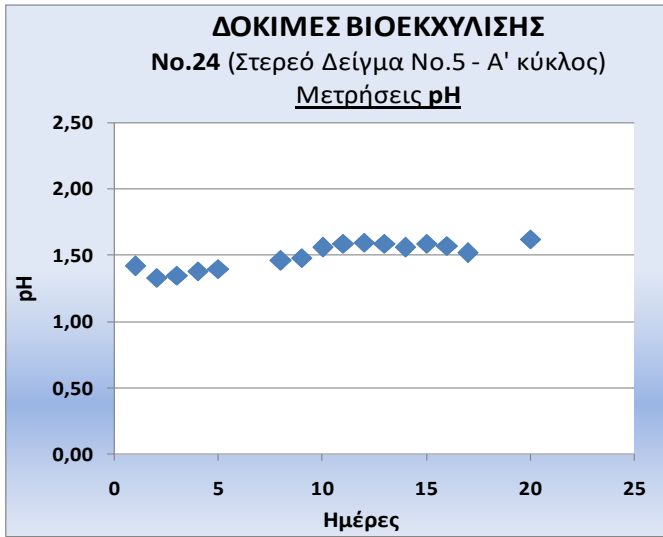
**Γ' Καλλιέργεια - Γ' Μεταφορά**



**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.5**  
**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 5%**  
**A' Καλλιέργεια - A' Μεταφορά**



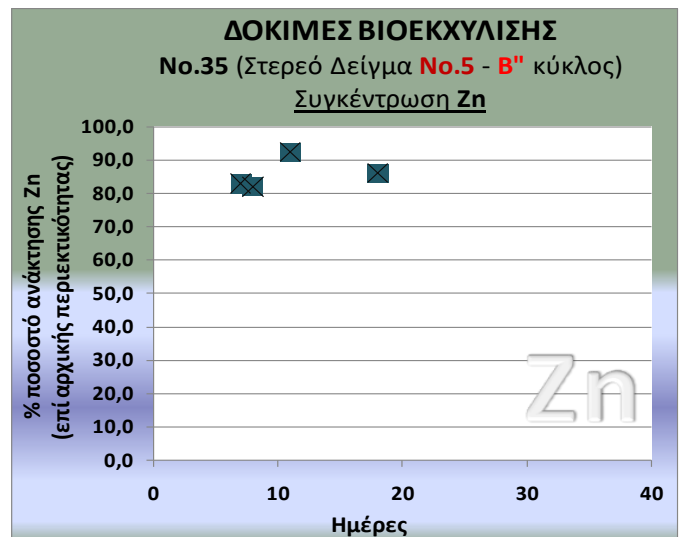
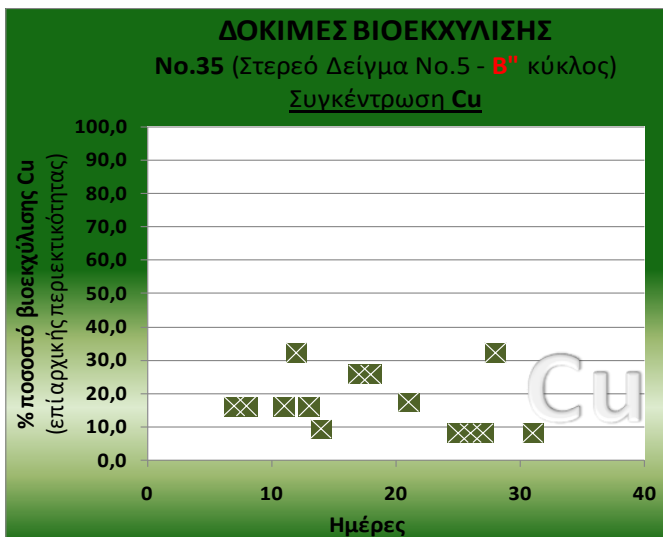
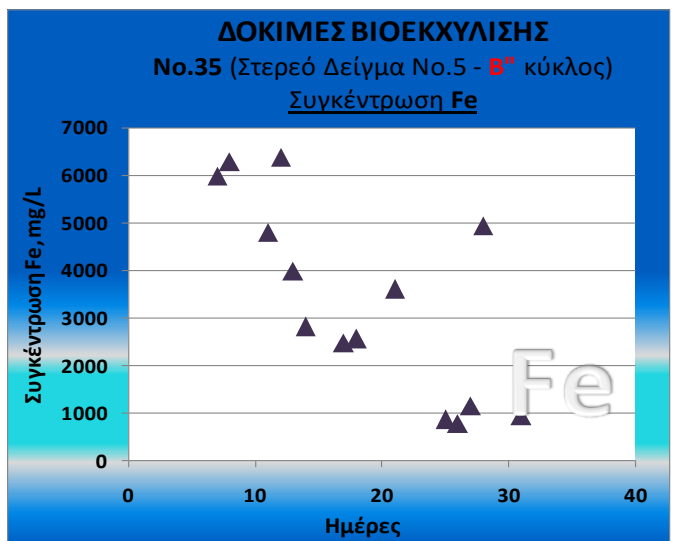
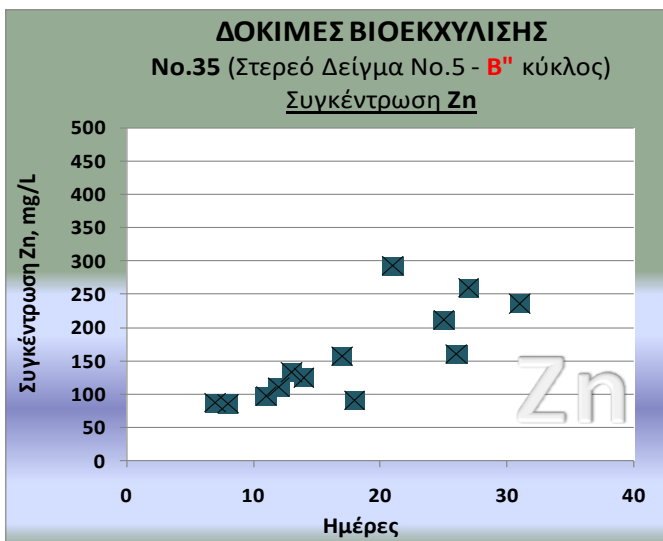
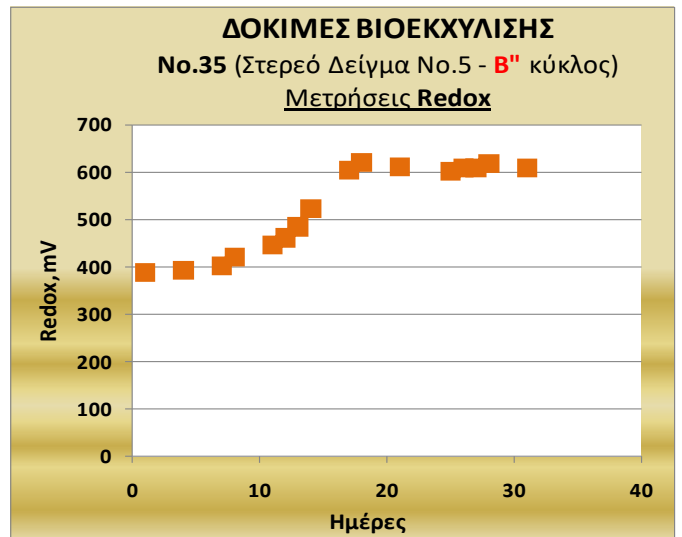
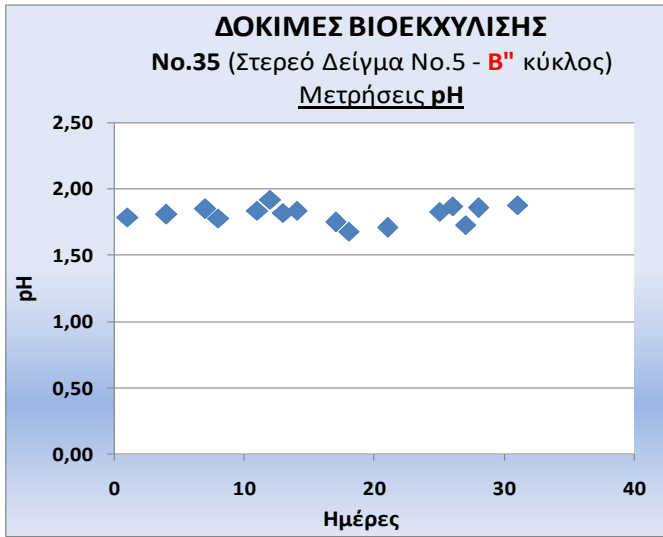
**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.5**  
**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 5%**  
**B' Καλλιέργεια - Α' Μεταφορά**



**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.5**

**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 5%**

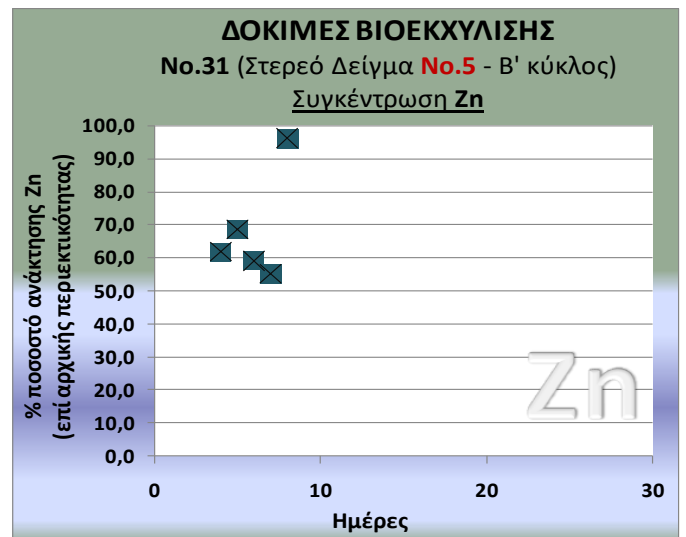
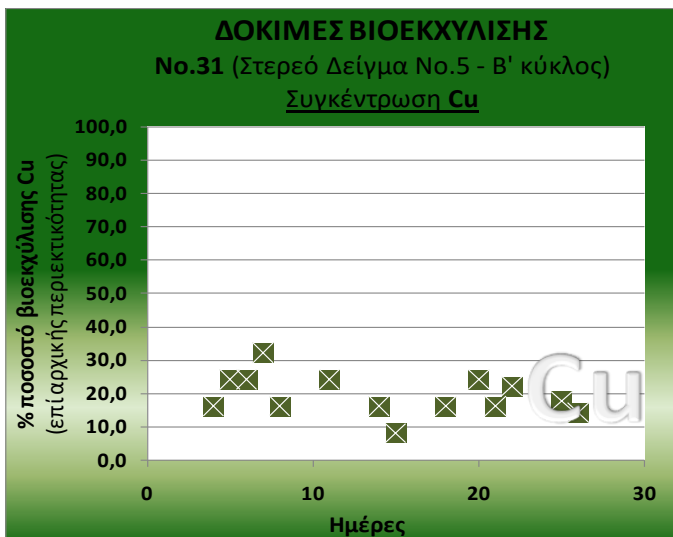
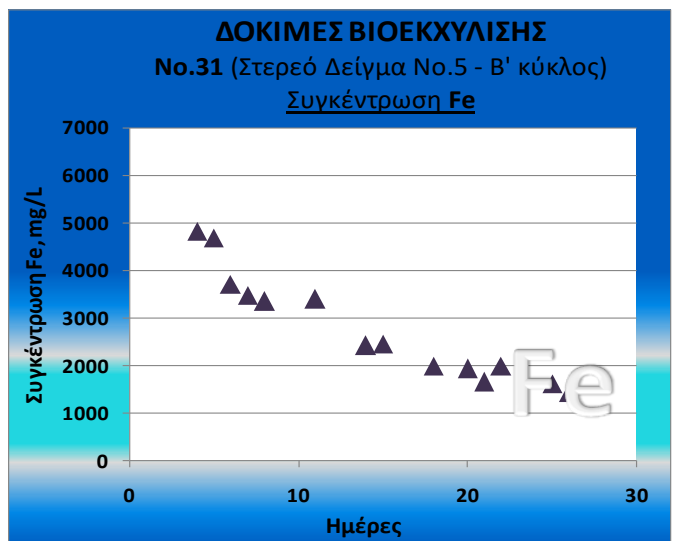
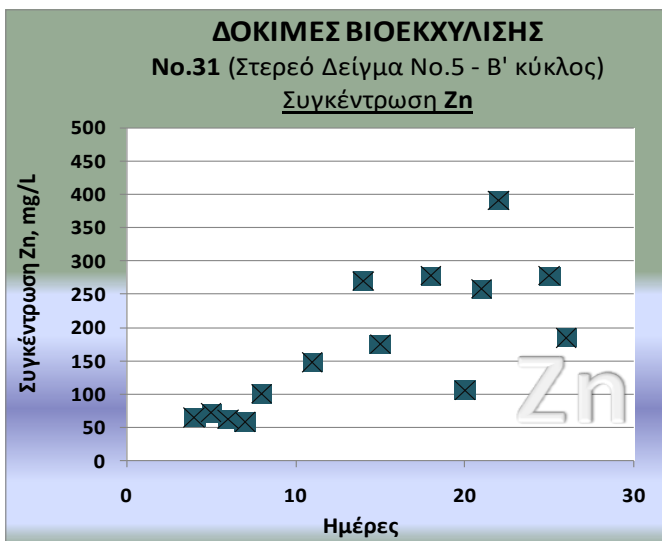
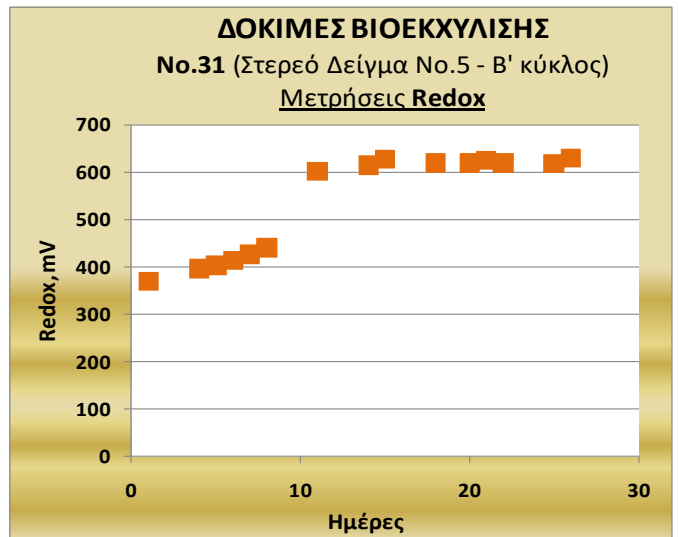
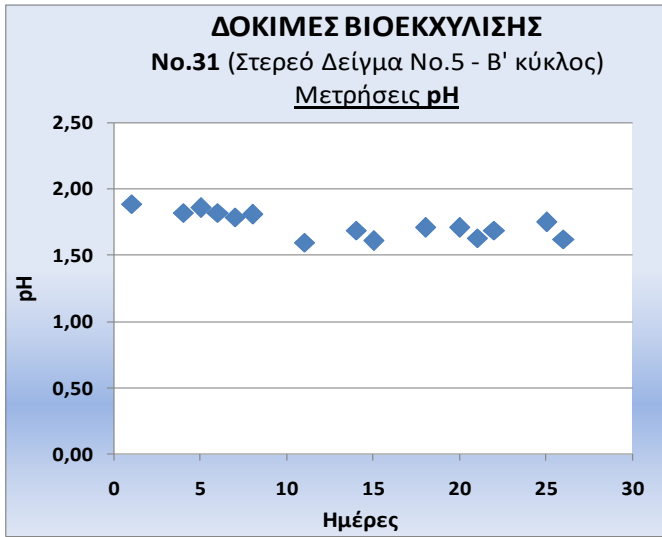
**Α' Καλλιέργεια – Β' Μεταφορά**



**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.5**

**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 5%**

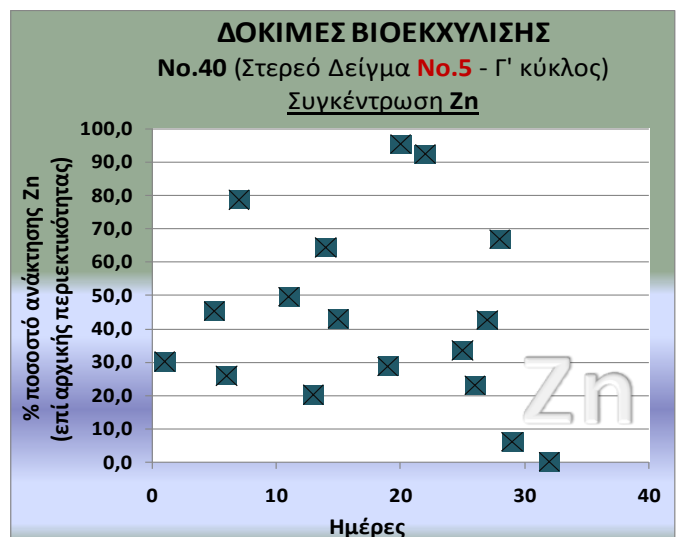
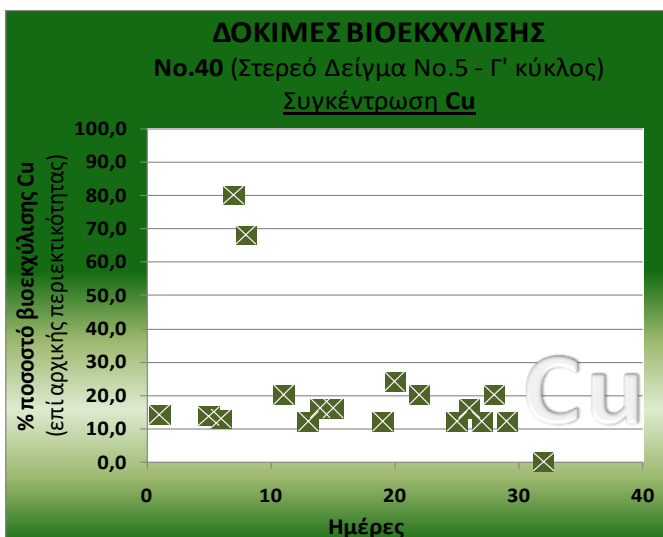
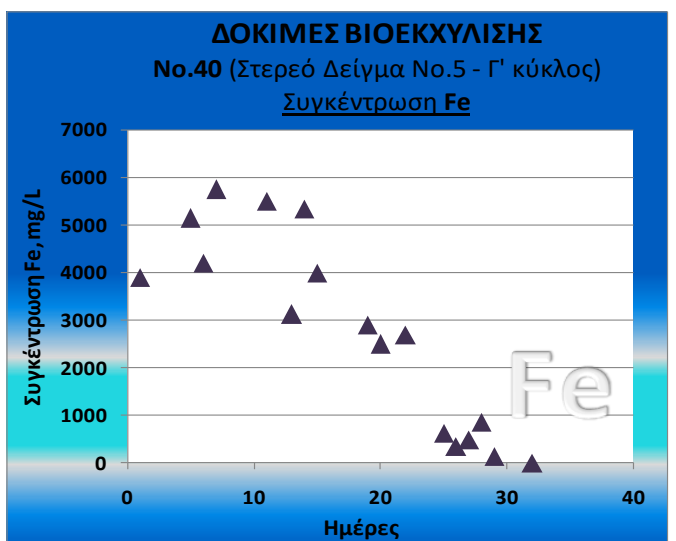
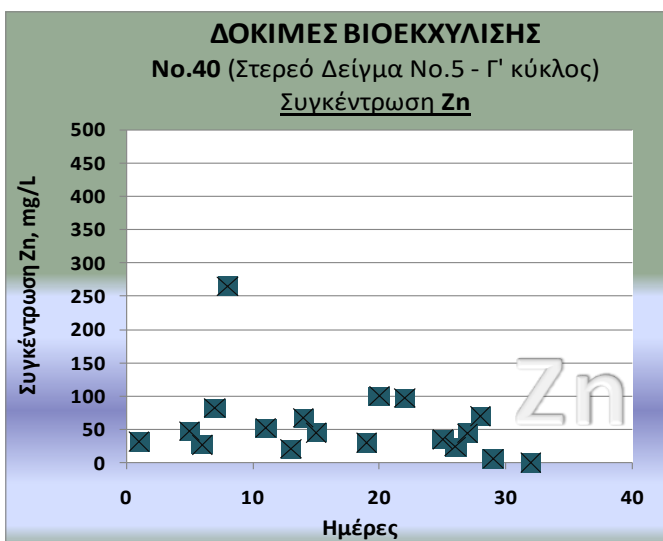
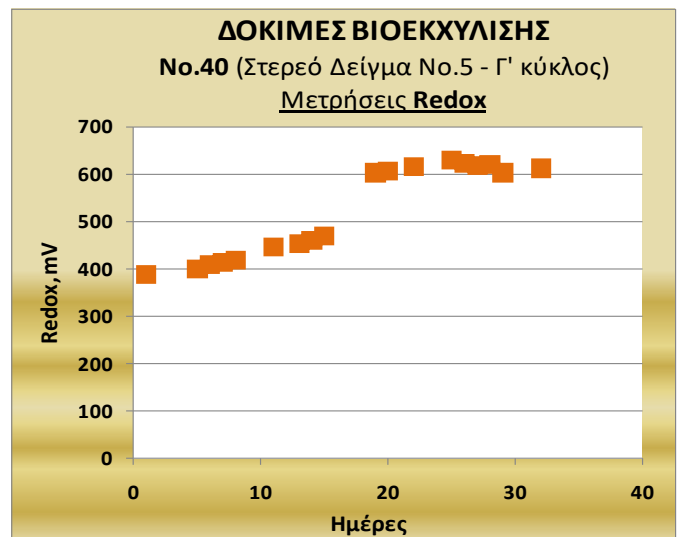
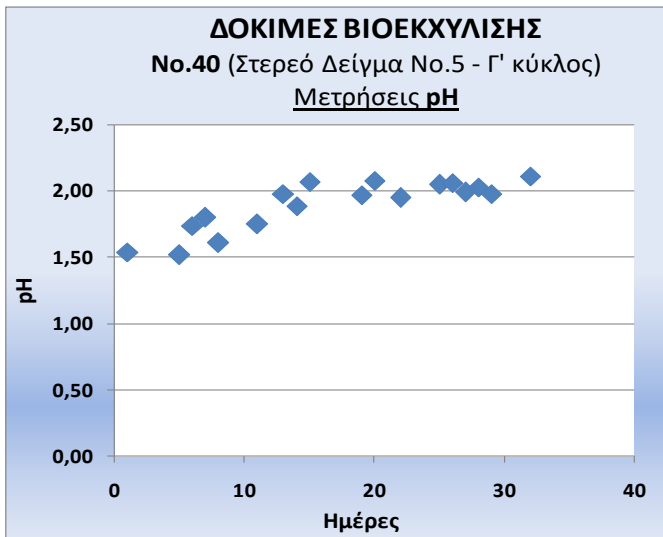
**B' Καλλιέργεια - B' Μεταφορά**



**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.5**

**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 5%**

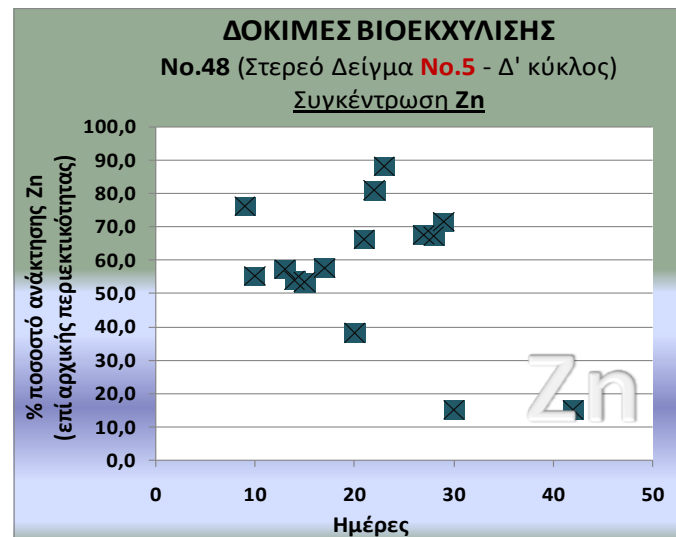
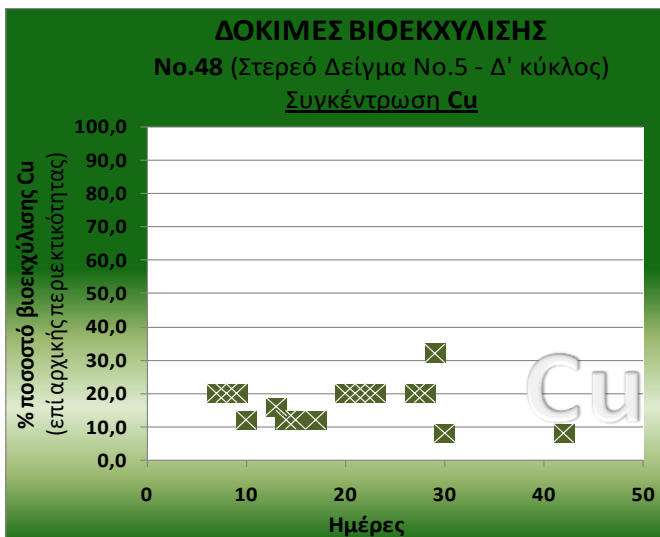
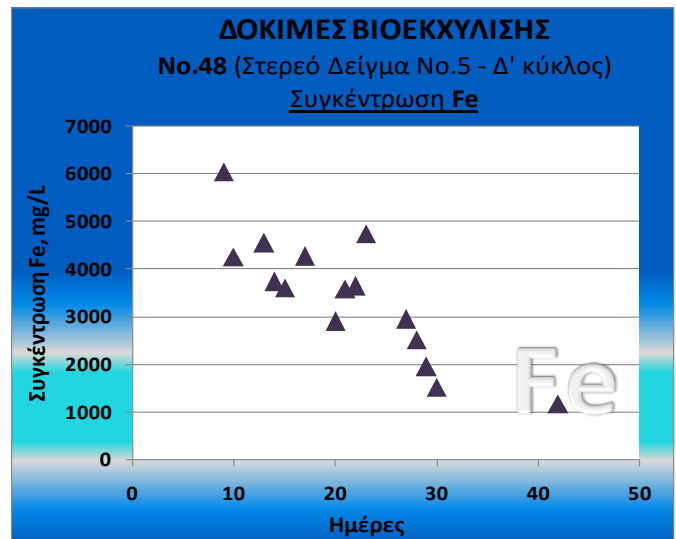
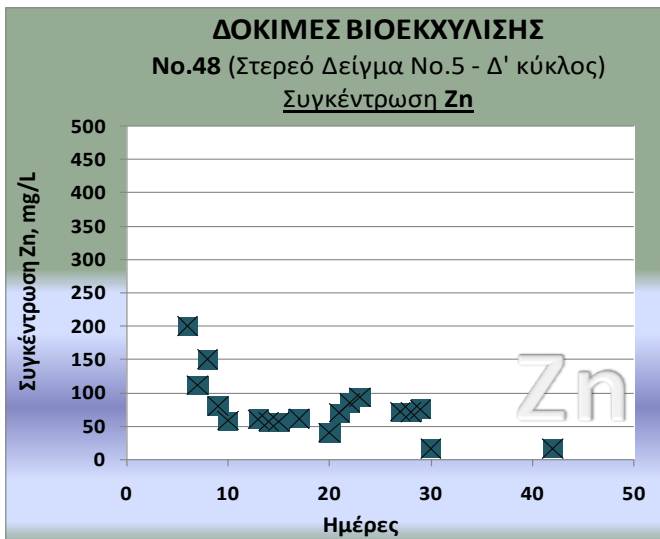
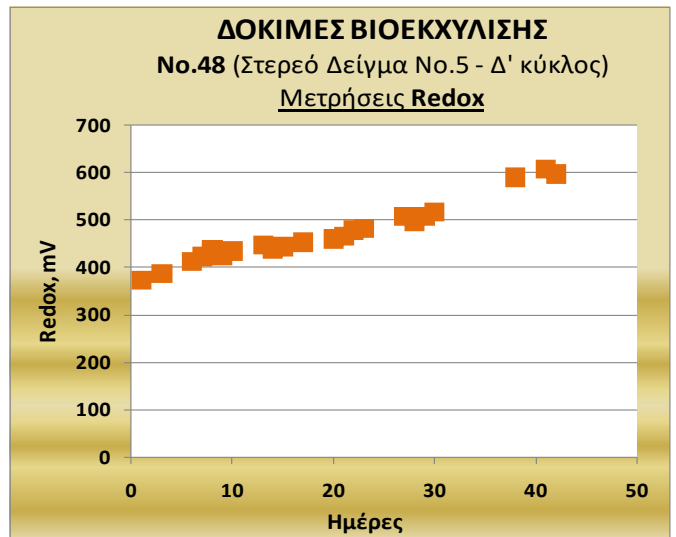
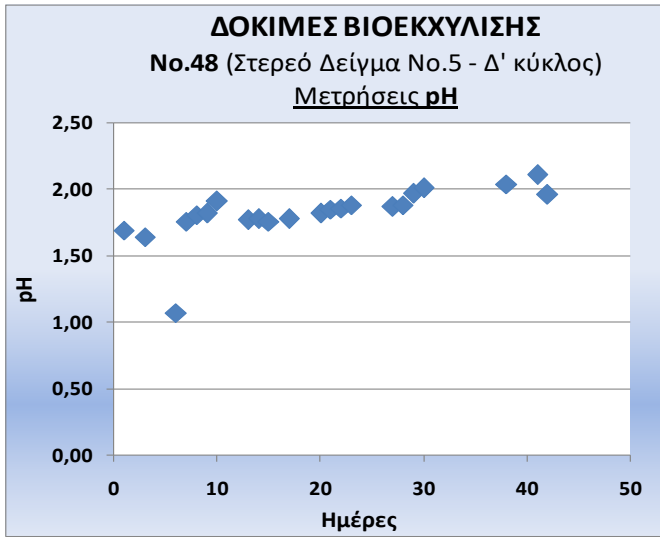
**A' Καλλιέργεια - Γ' Μεταφορά**



**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.5**

**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 5%**

**A' Καλλιέργεια - Δ' Μεταφορά**

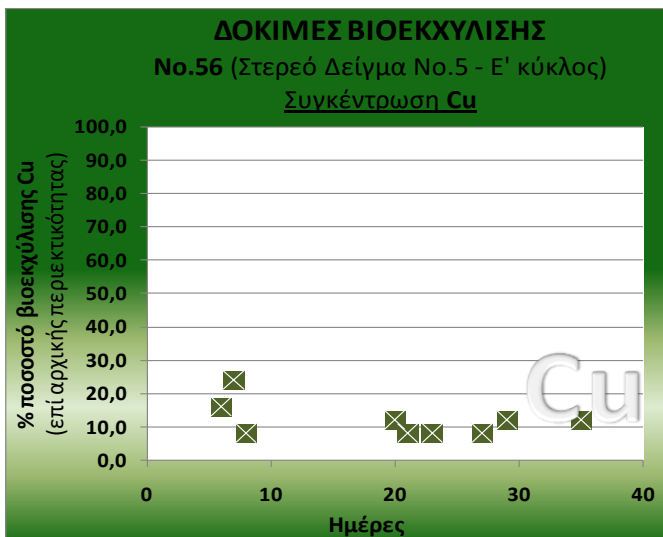
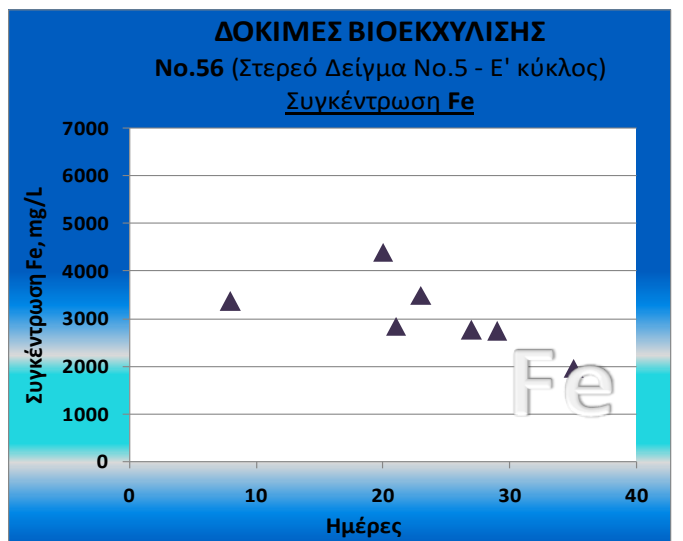
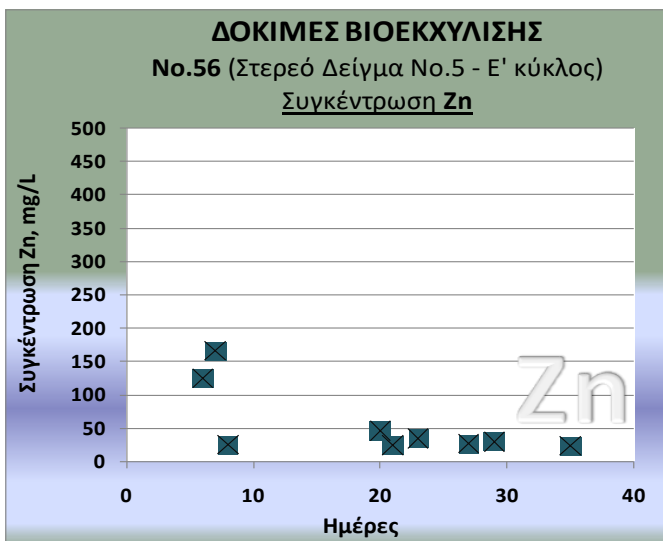
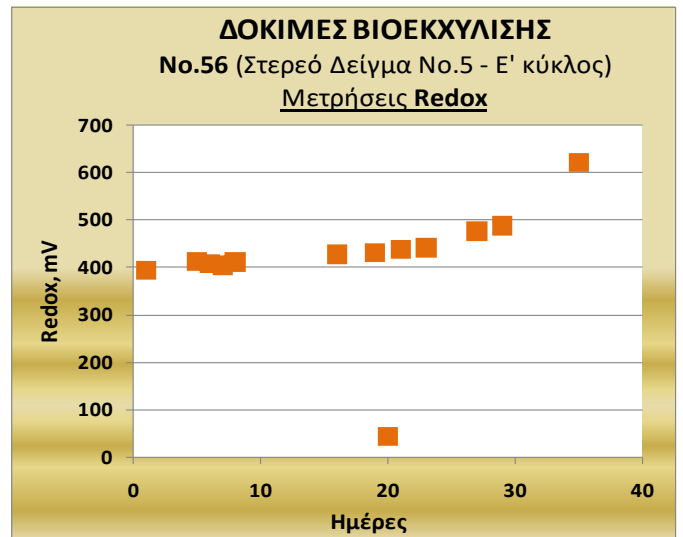
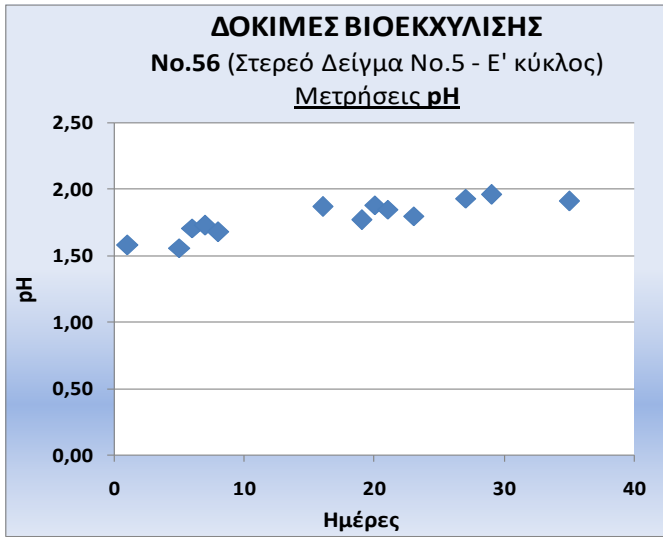


**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.5**

**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 5%**

**A' Καλλιέργεια - E' Μεταφορά**

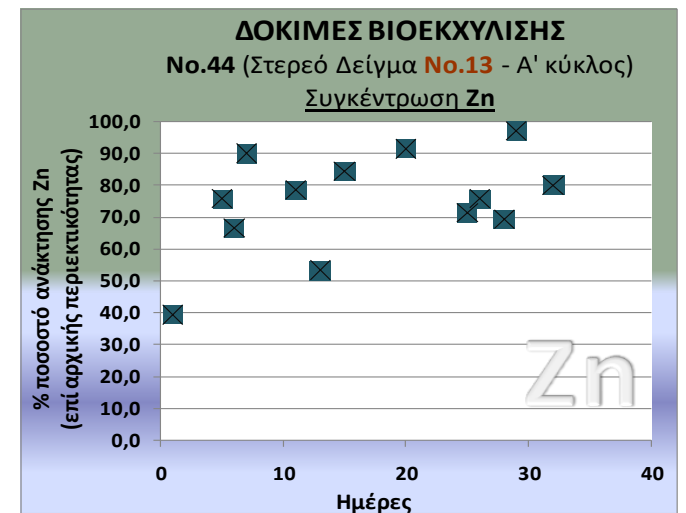
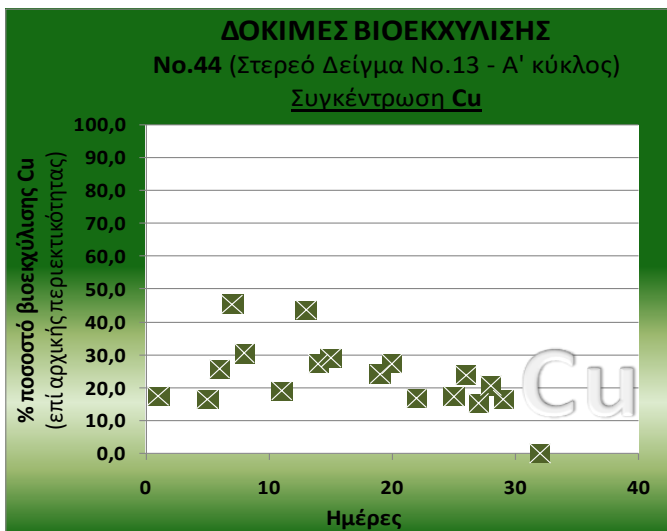
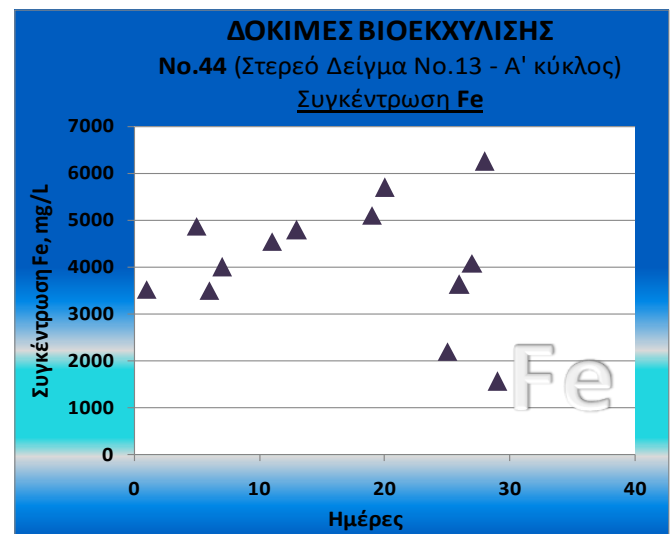
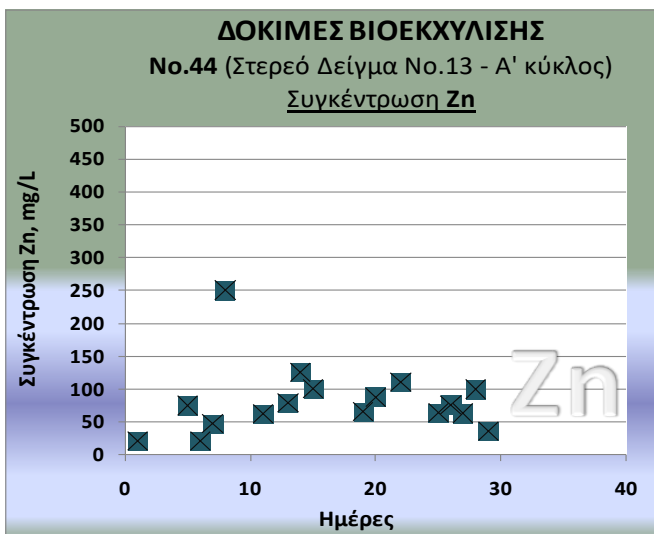
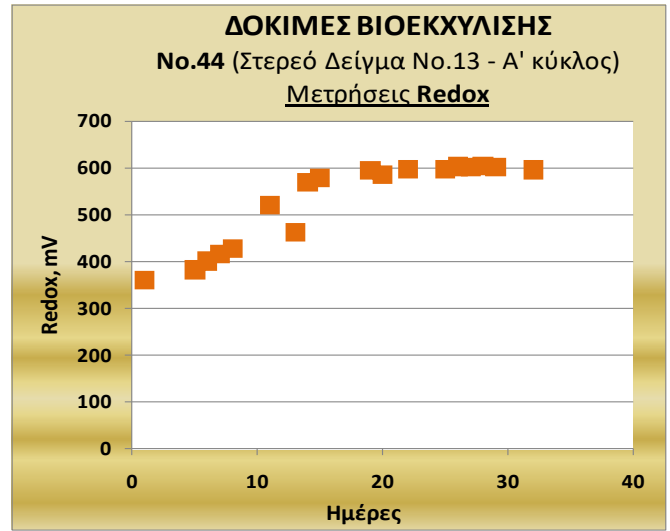
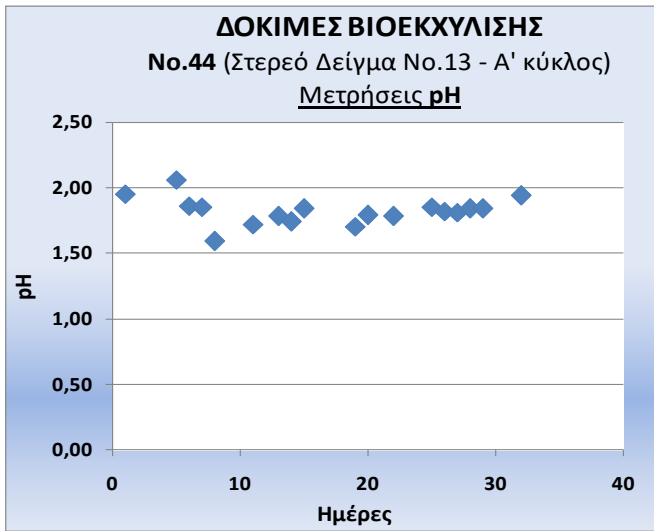




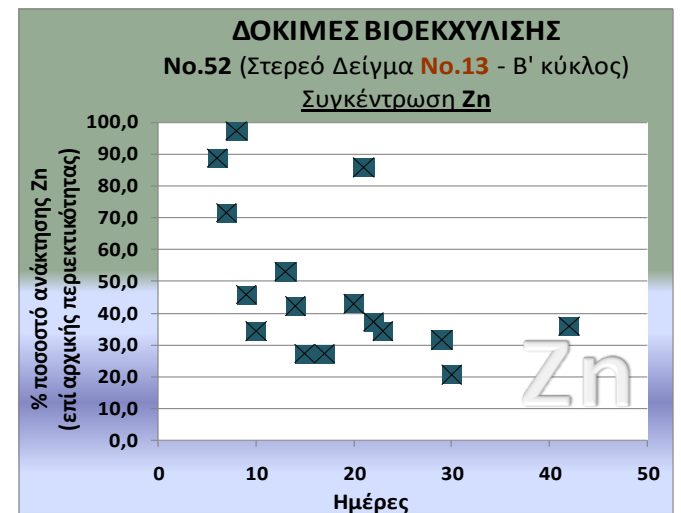
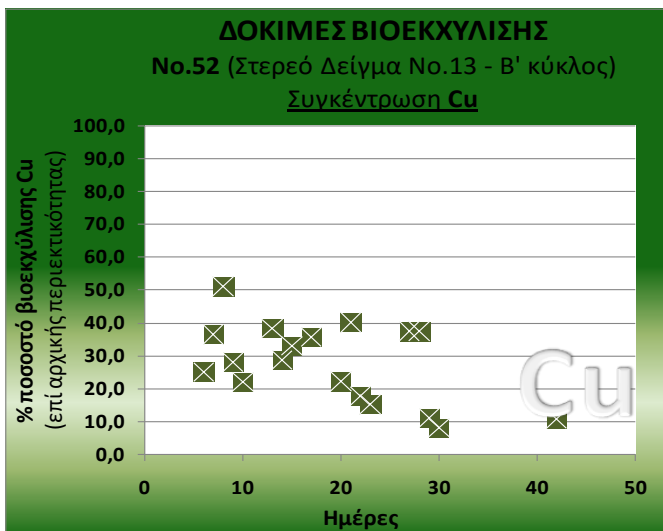
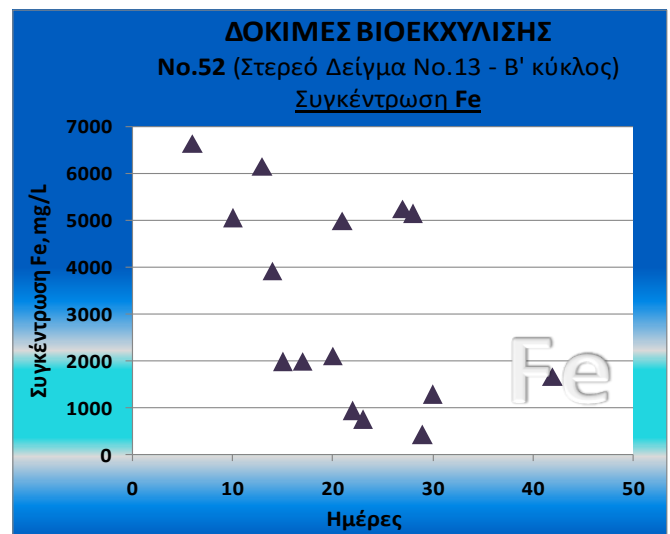
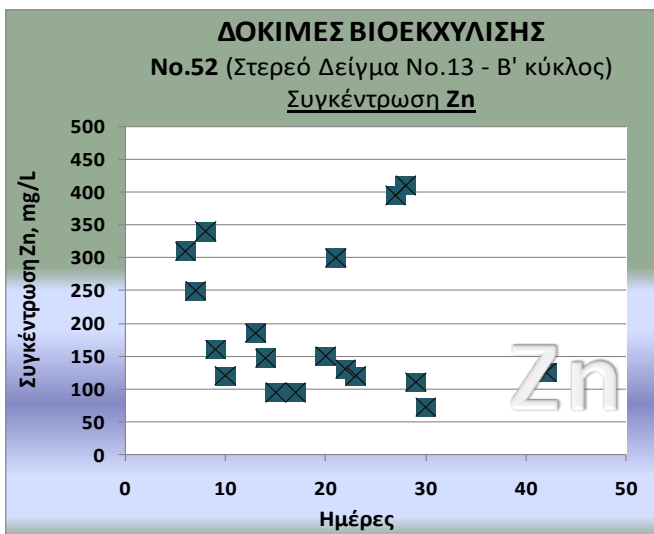
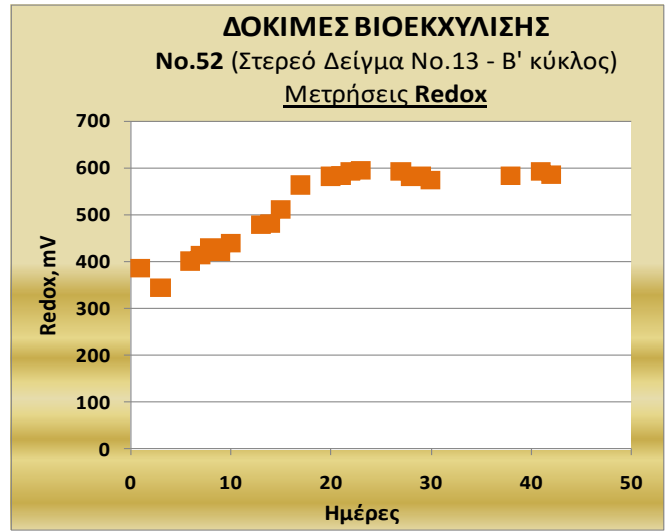
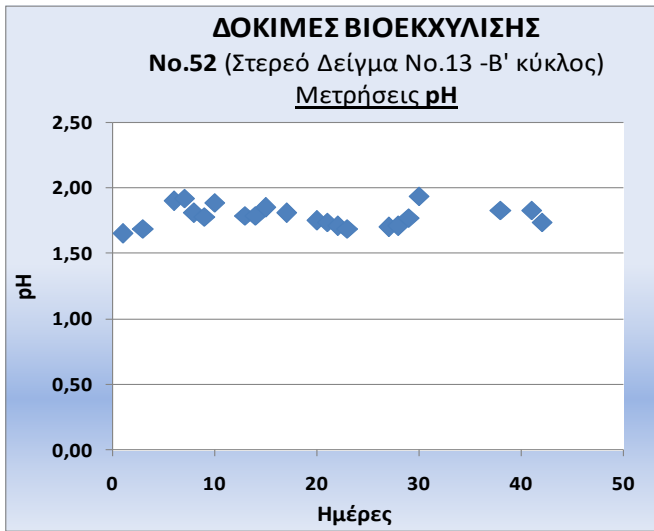
**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.6**

**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 5%**

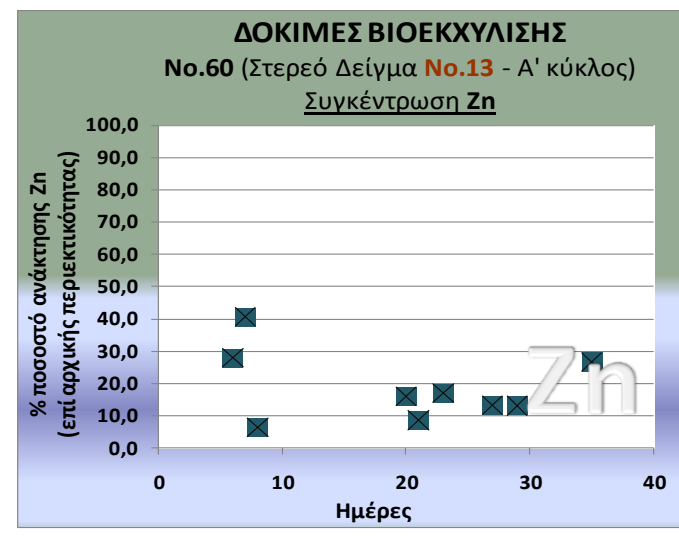
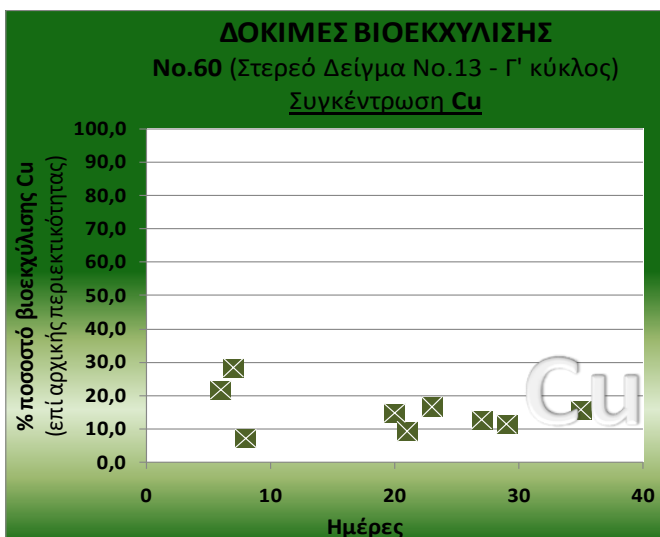
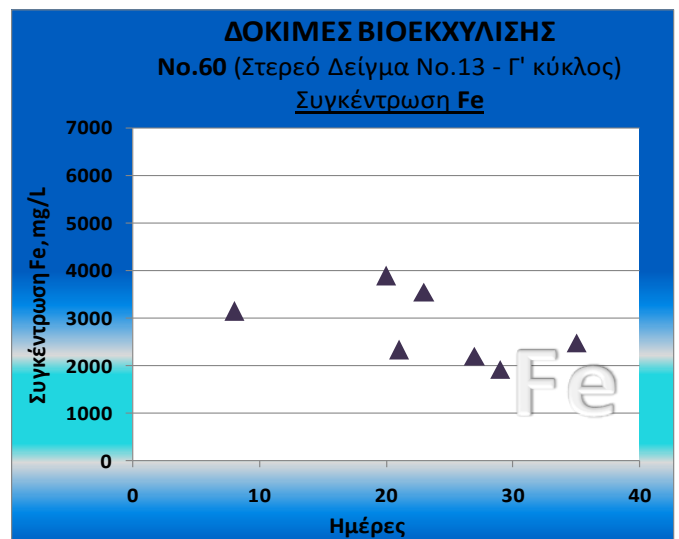
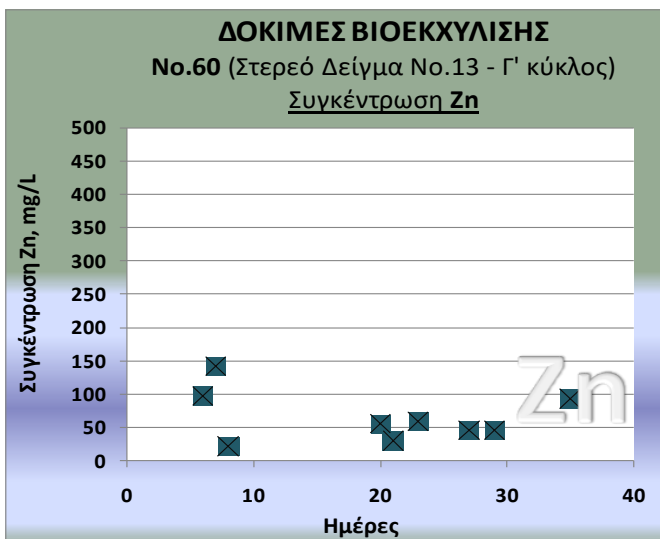
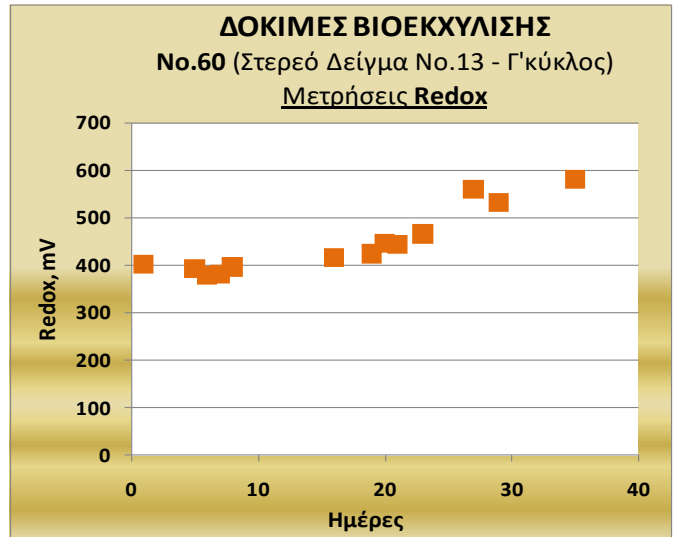
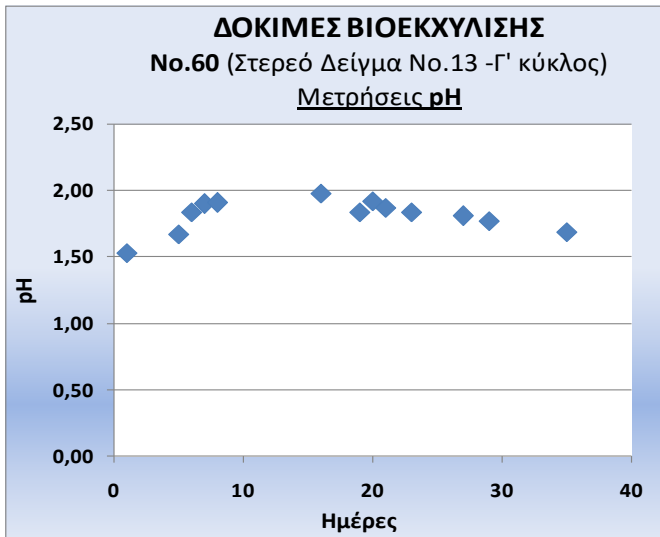
**Α' Μεταφορά**



**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.6**  
**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 5%**  
**Β' Μεταφορά**



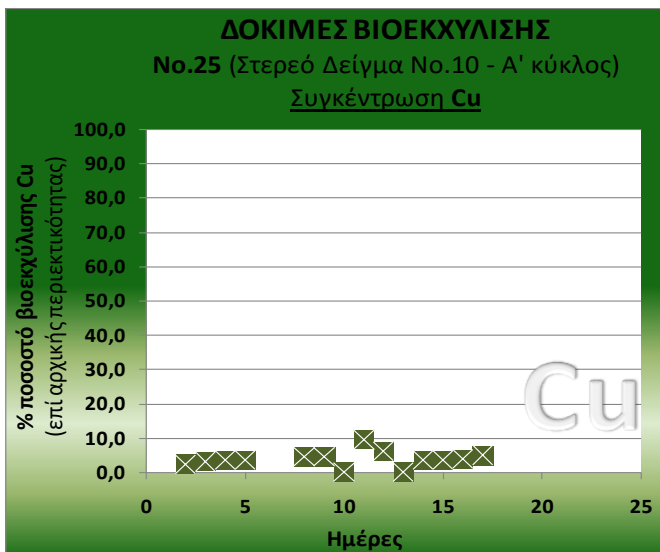
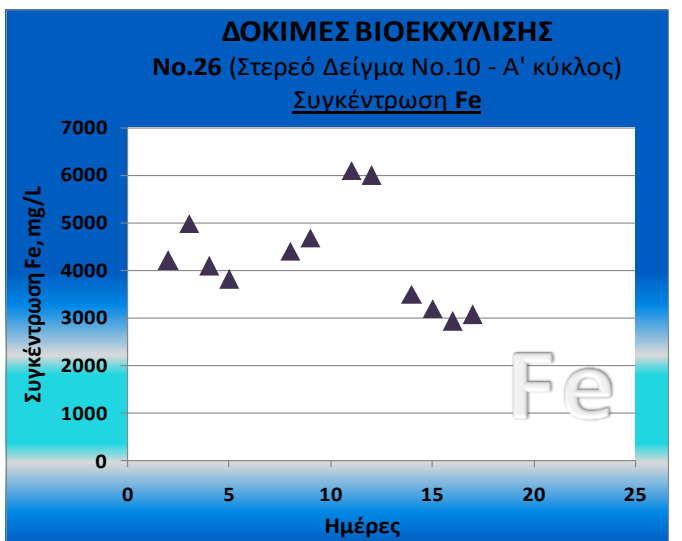
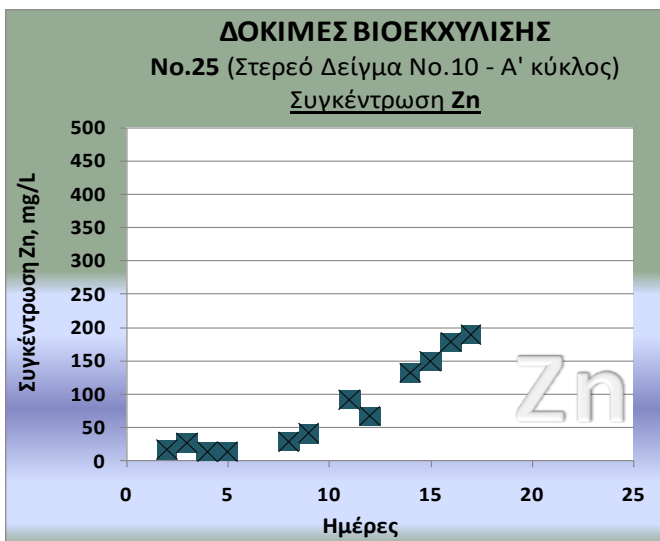
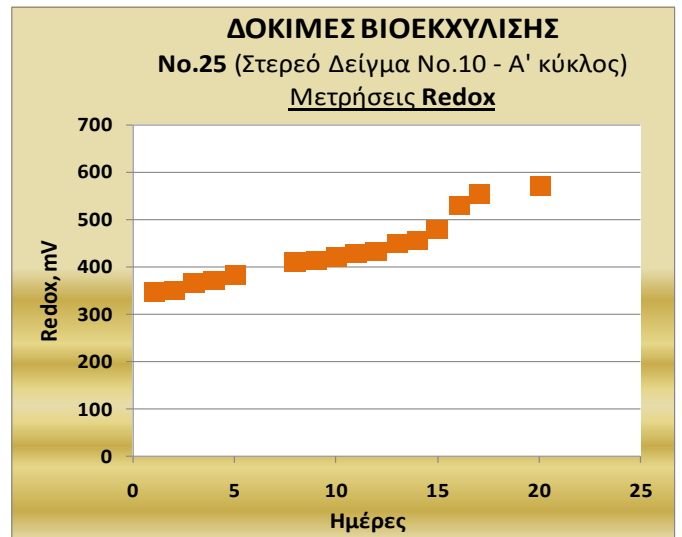
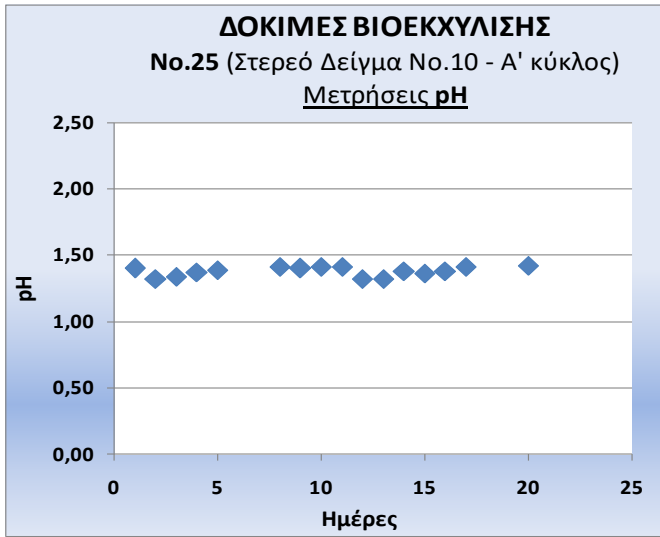
**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.6**  
**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 5%**  
**Γ' Μεταφορά**



**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.10**

**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 5%**

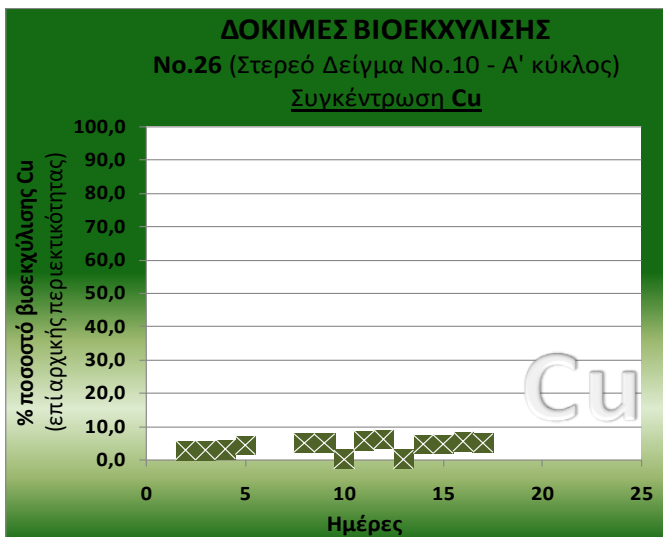
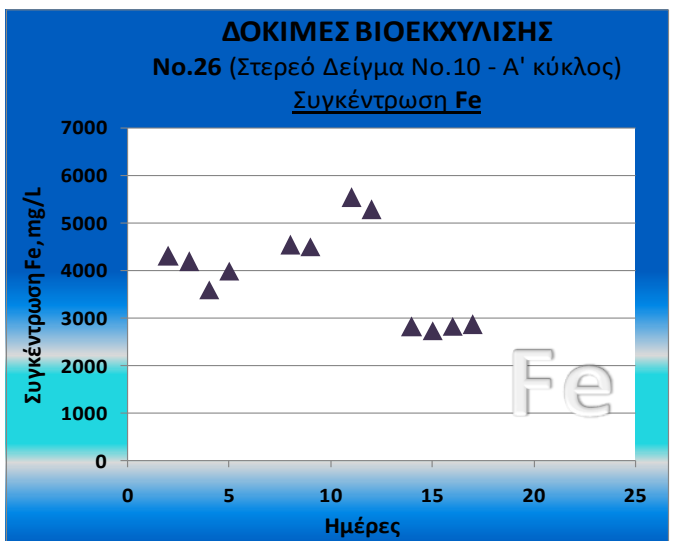
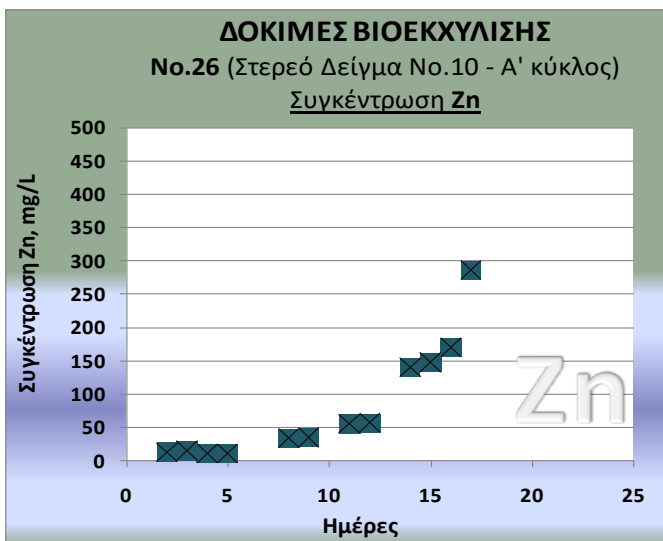
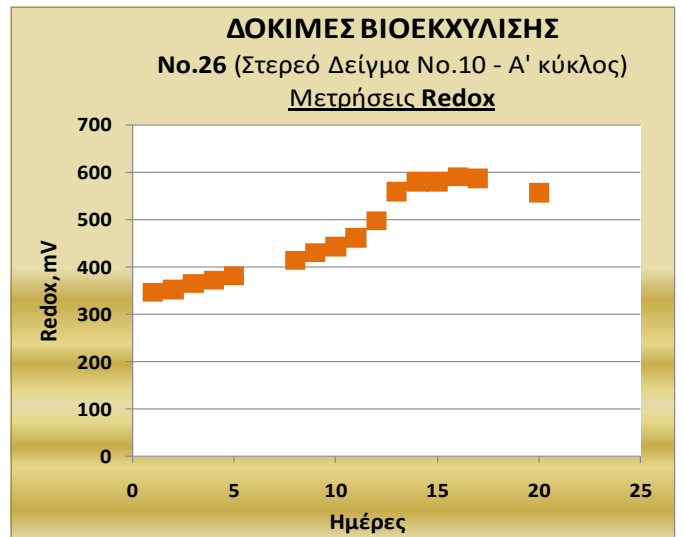
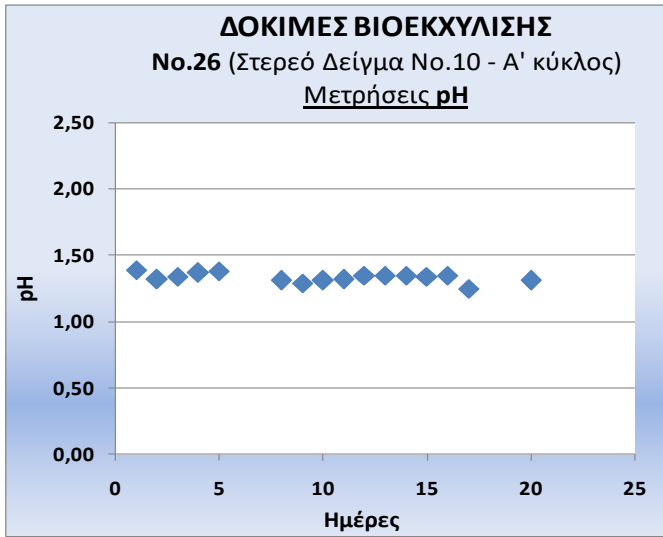
**Α' Καλλιέργεια – Α' Μεταφορά**



**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.10**

**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 5%**

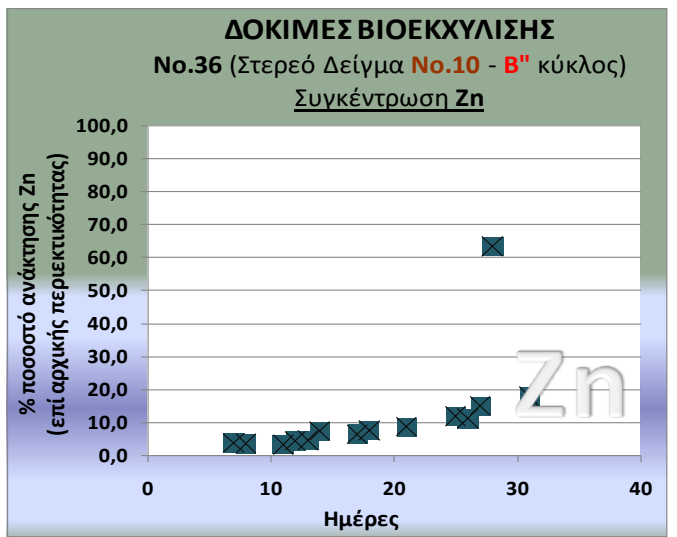
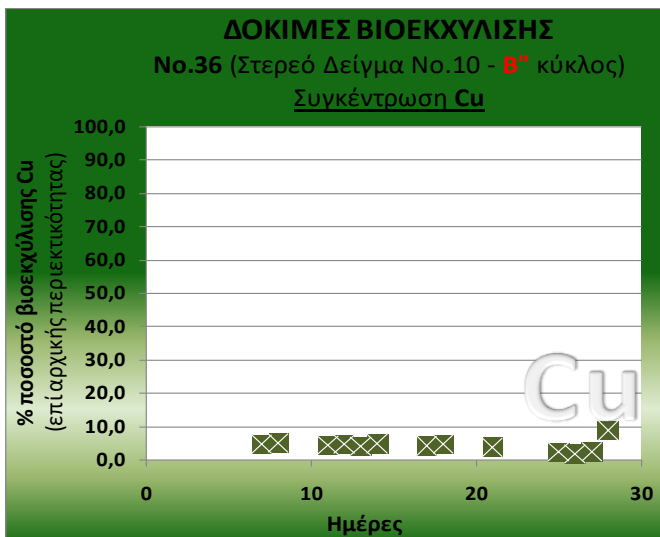
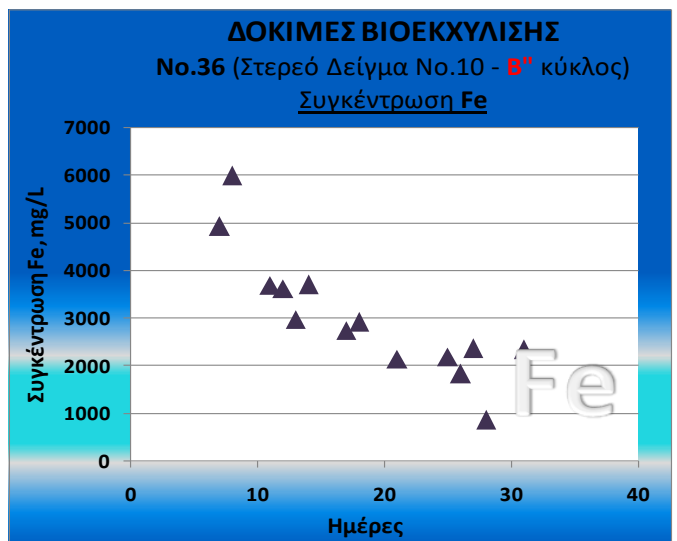
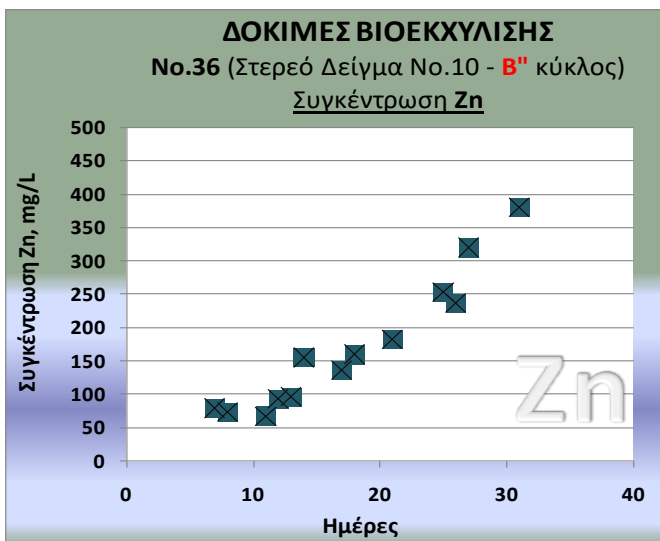
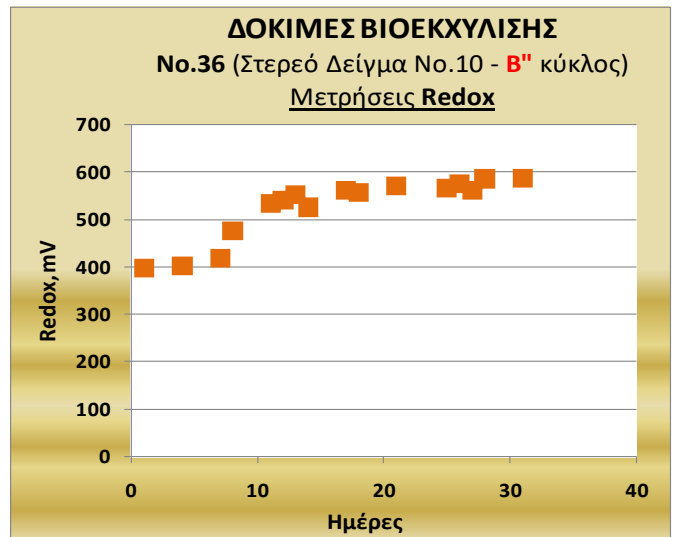
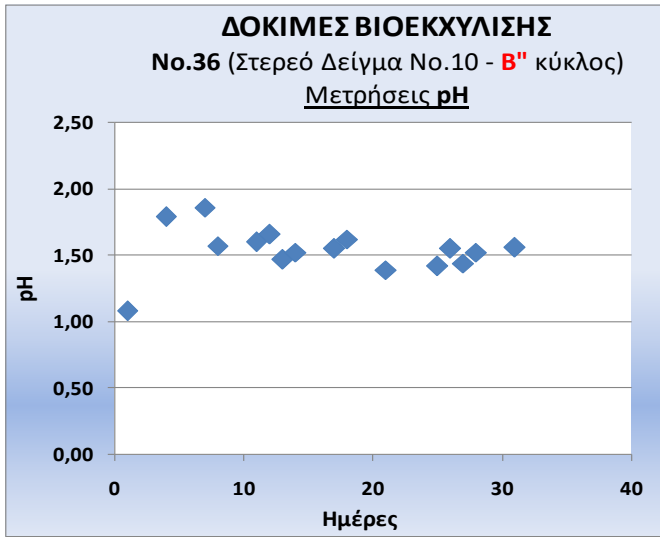
**Β' Καλλιέργεια – Α' Μεταφορά**



**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.10**

**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 5%**

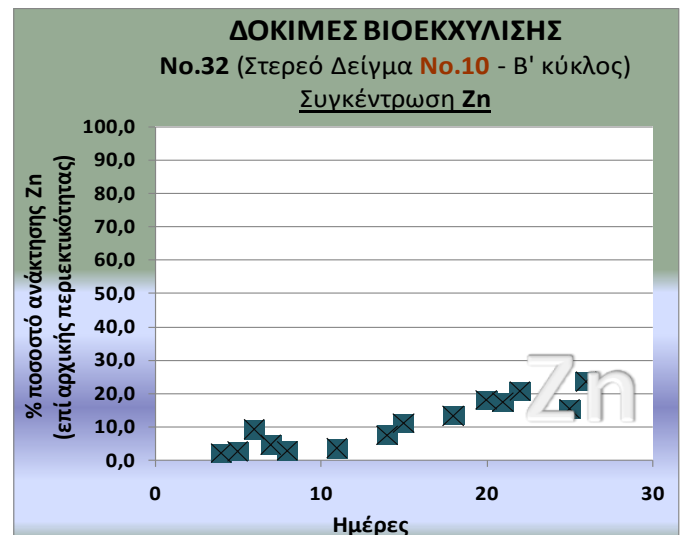
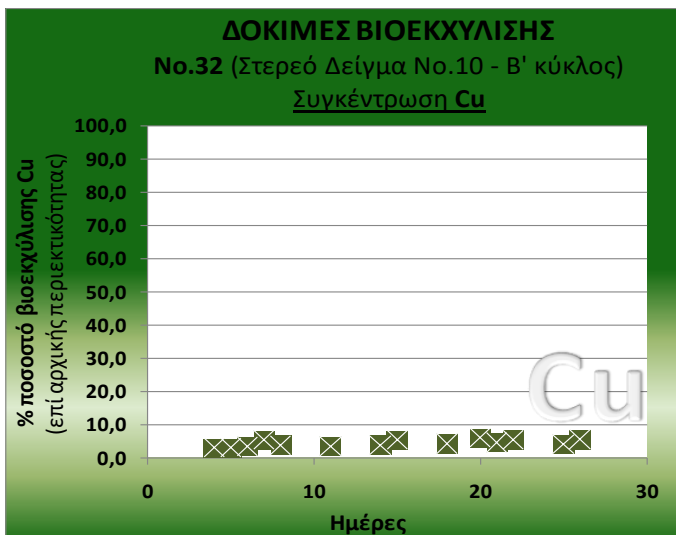
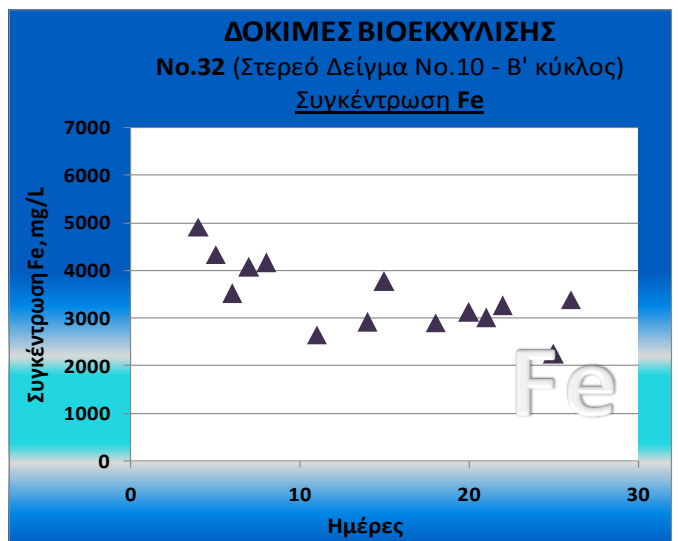
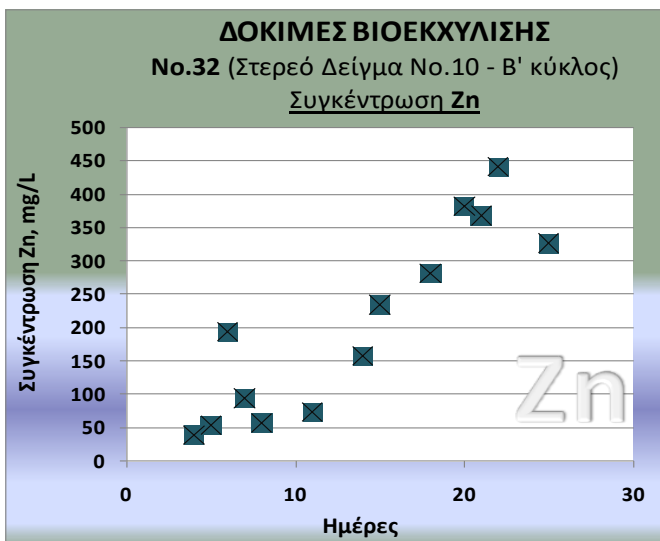
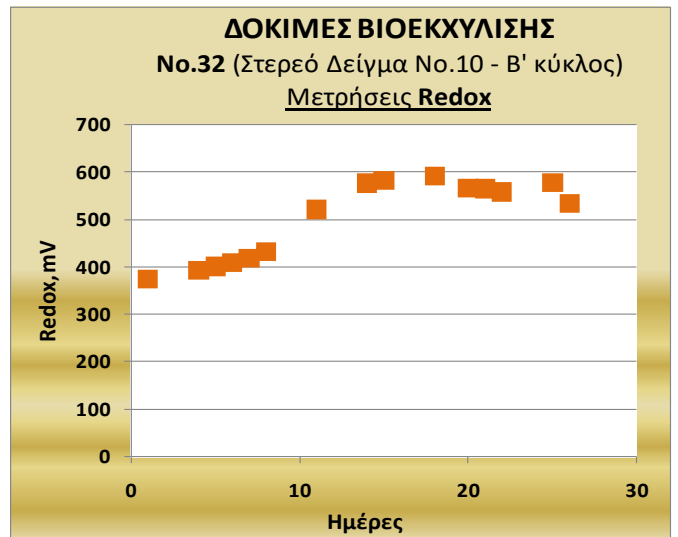
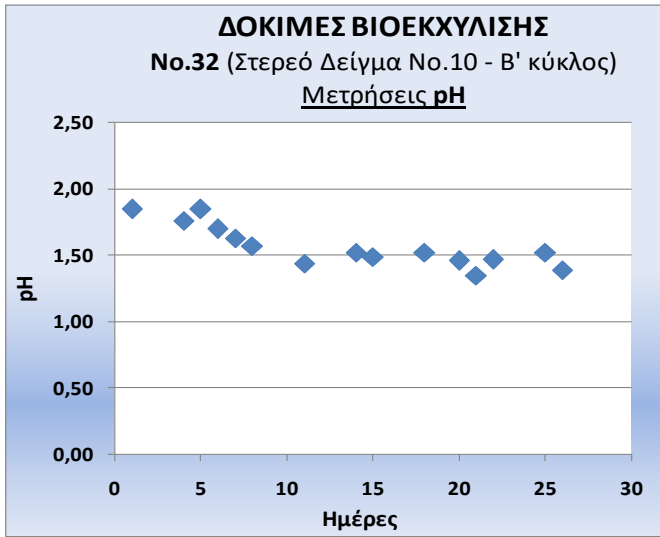
**Α' Καλλιέργεια - Β' Μεταφορά**



**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.10**

**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 5%**

**B' Καλλιέργεια - B' Μεταφορά**

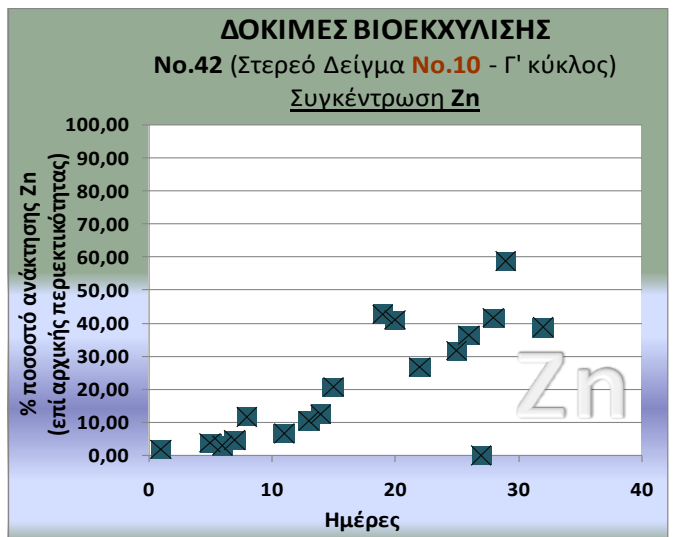
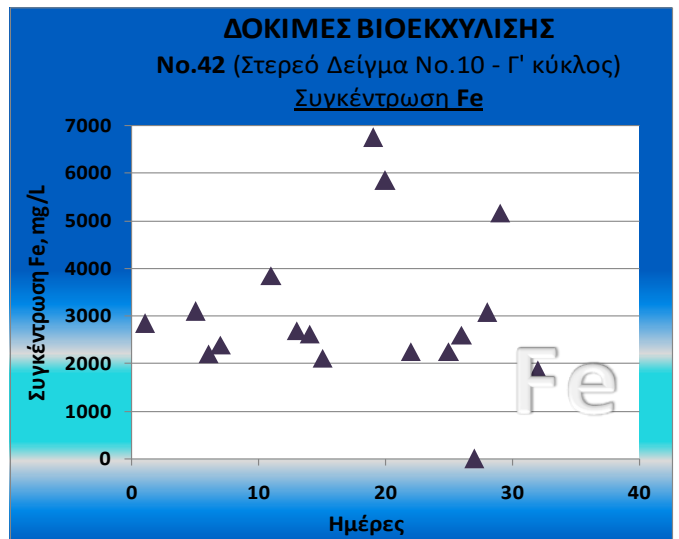
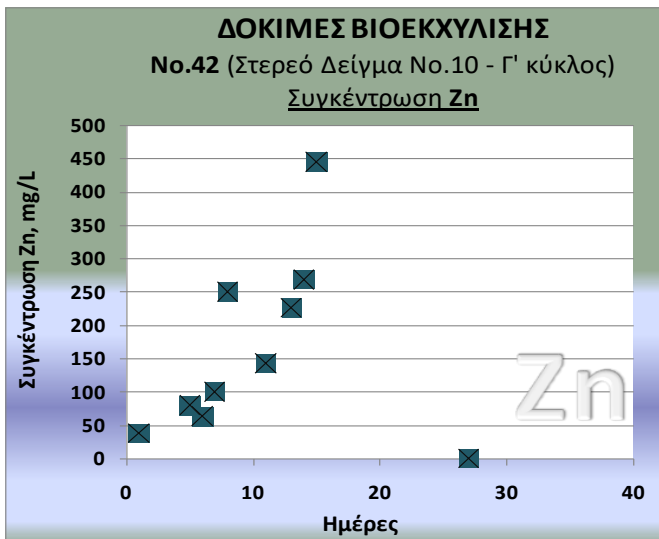
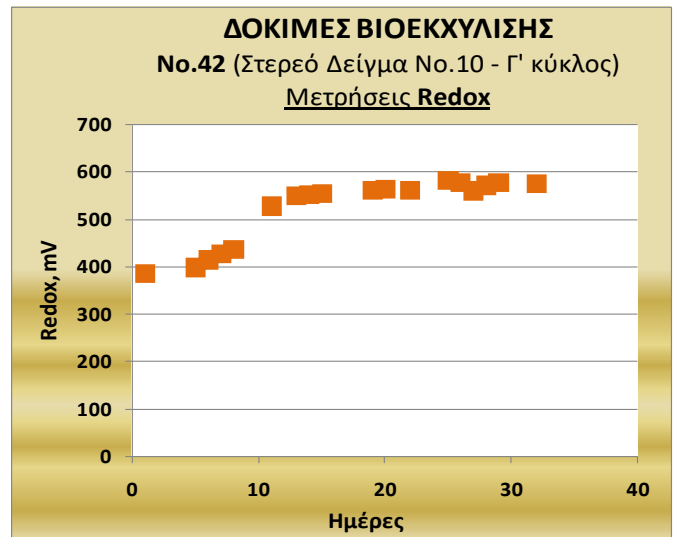
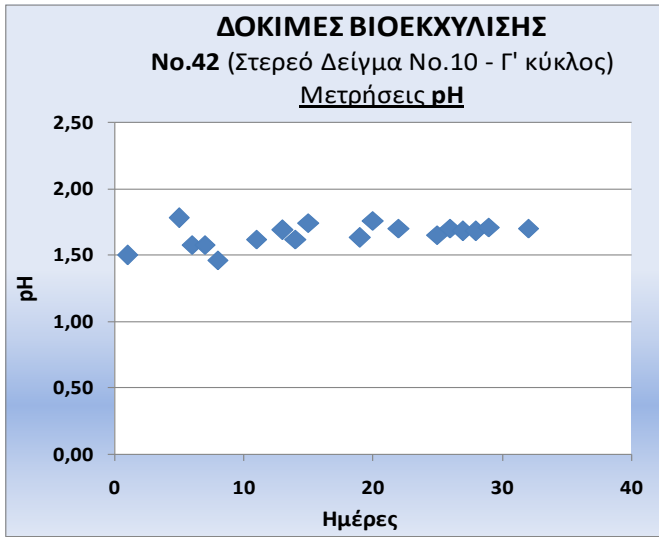


**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.10**

**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 5%**

**A' Καλλιέργεια - Γ' Μεταφορά**

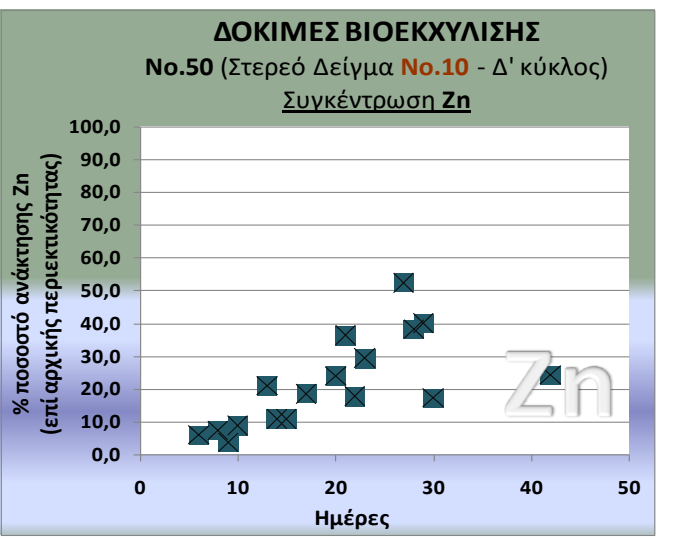
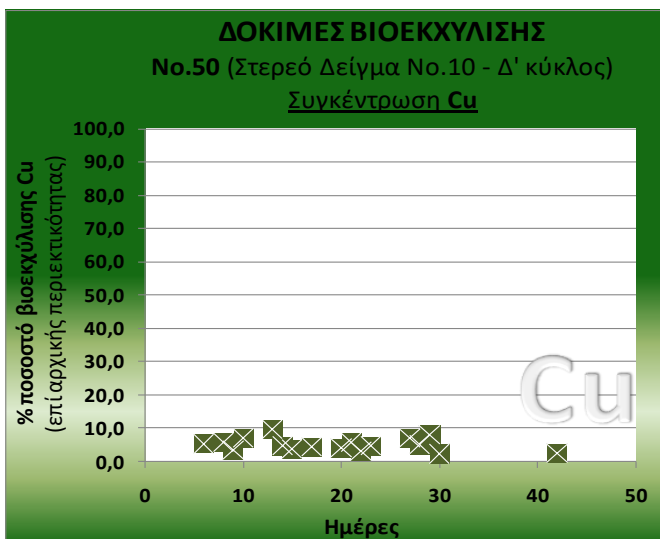
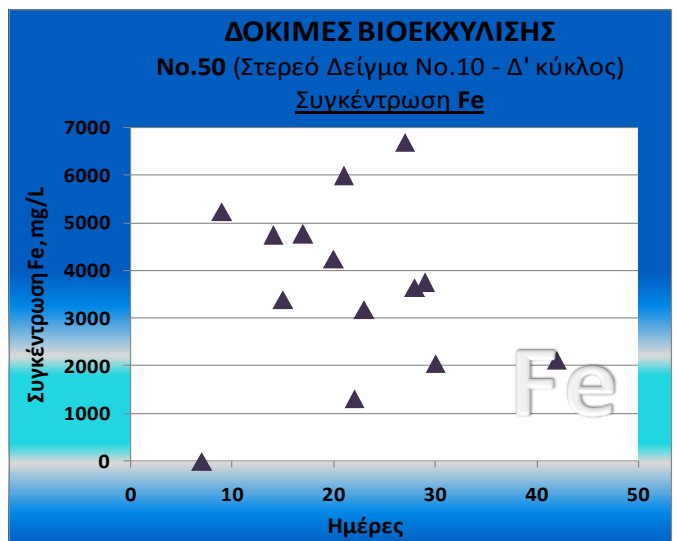
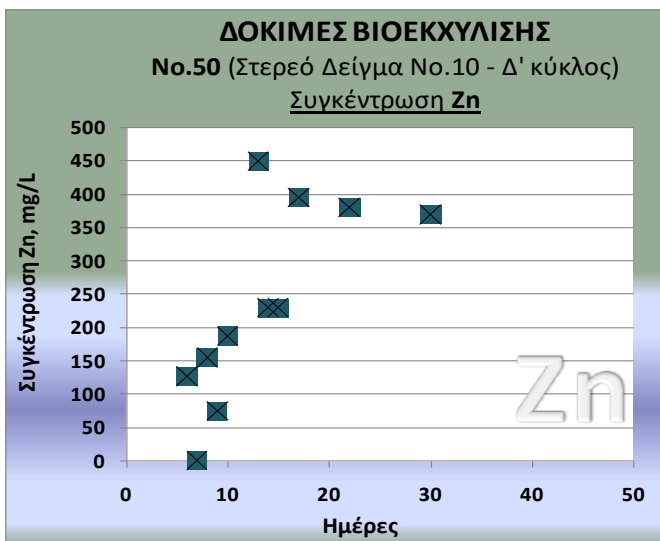
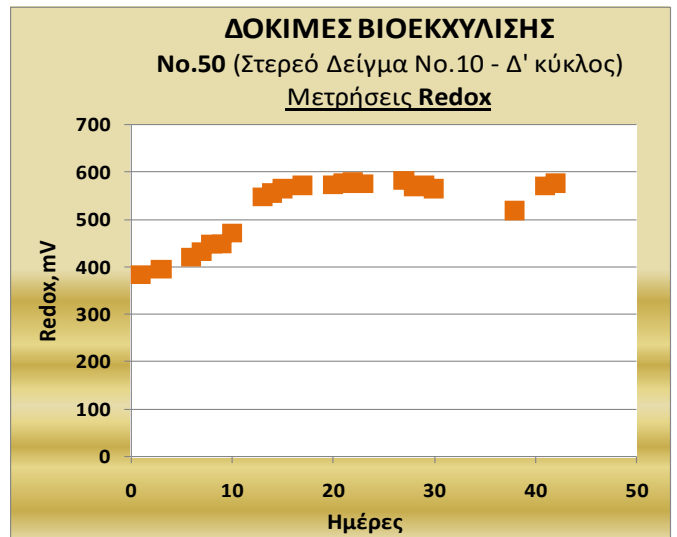
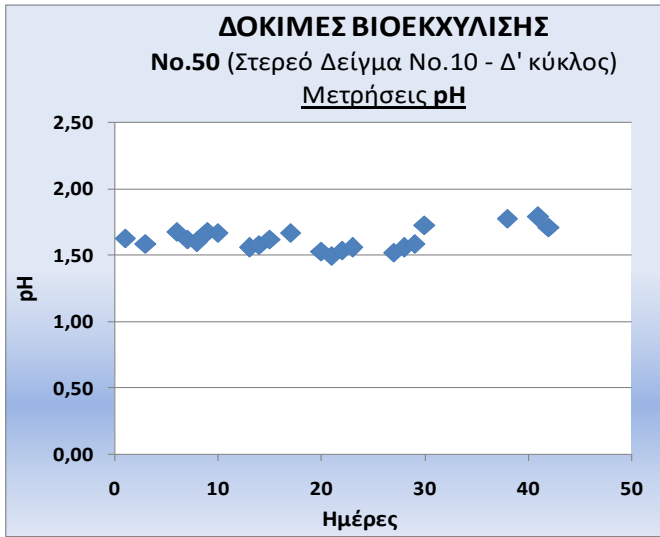




**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.10**

**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 5%**

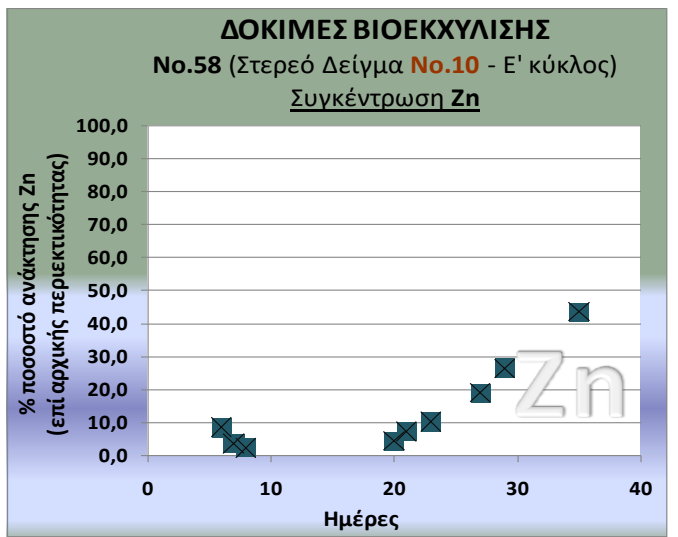
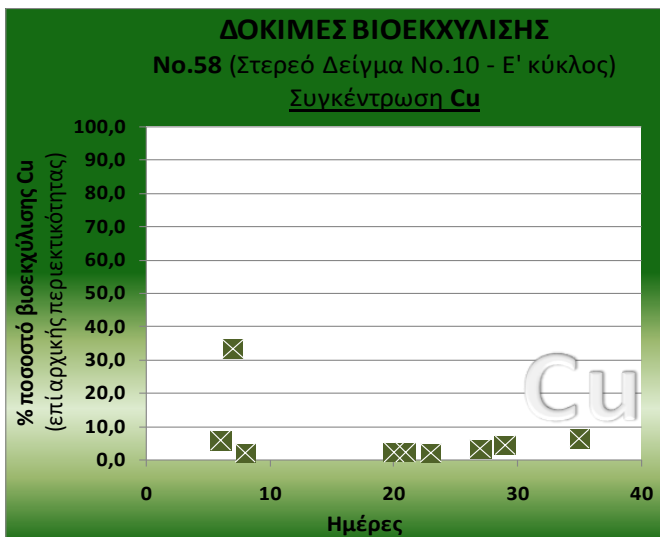
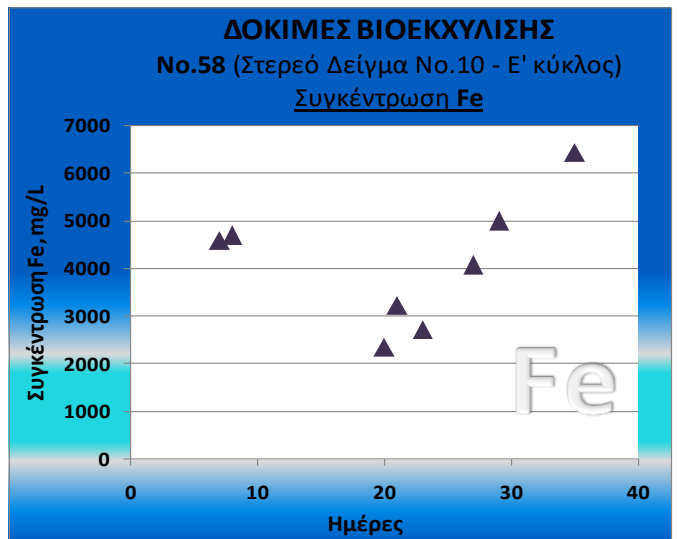
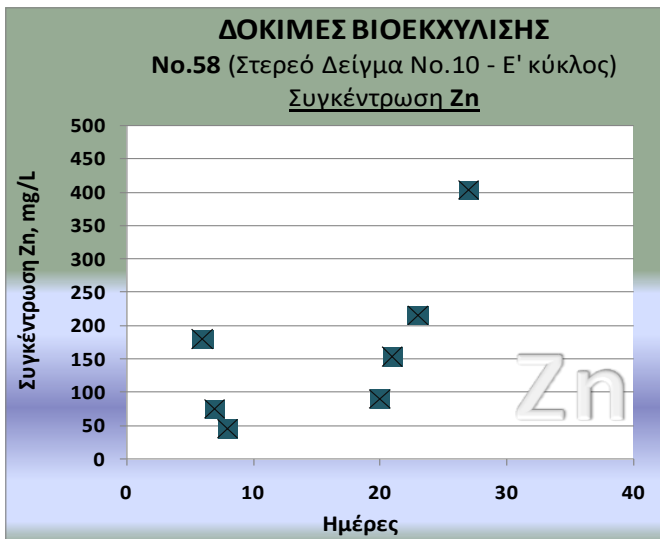
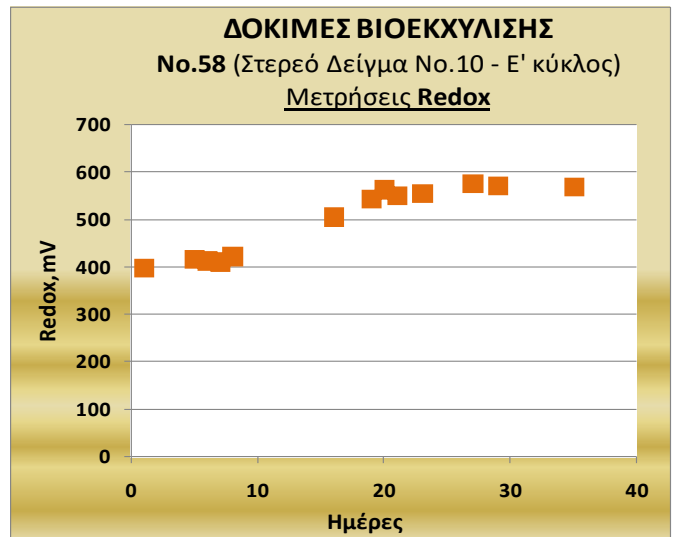
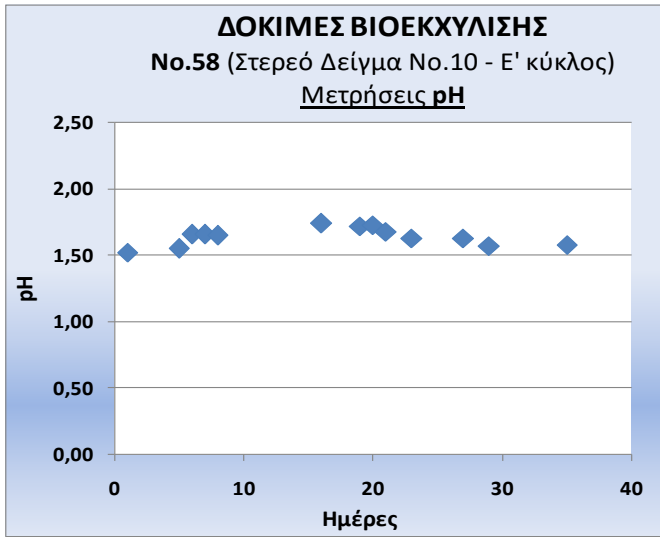
**A' Καλλιέργεια - Δ' Μεταφορά**



**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.10**

**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 5%**

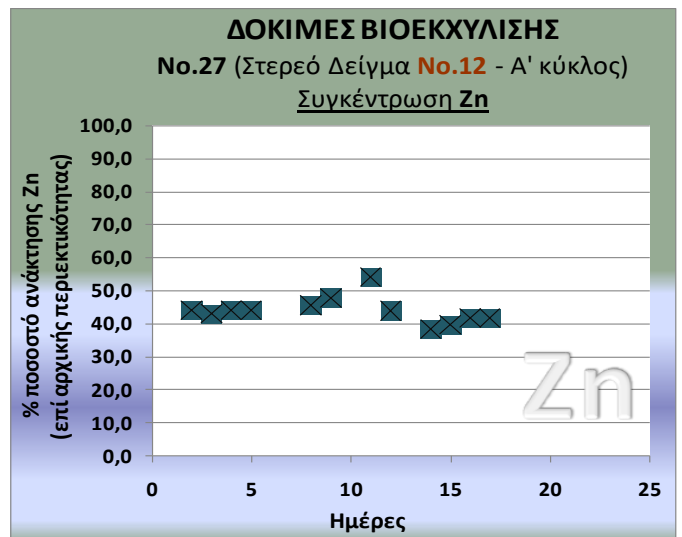
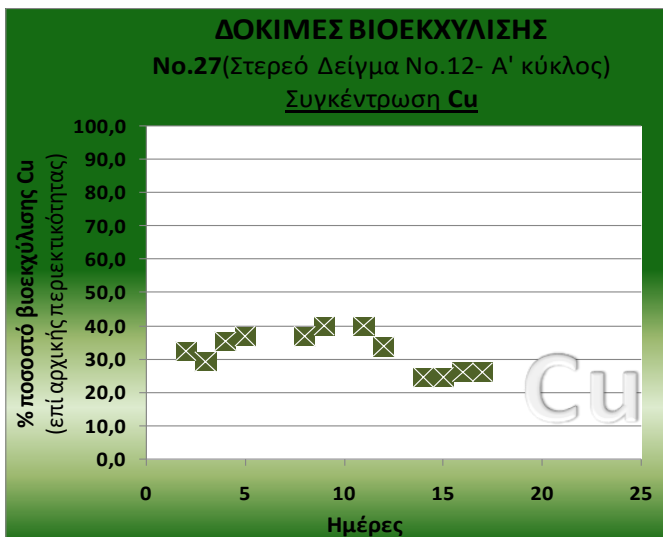
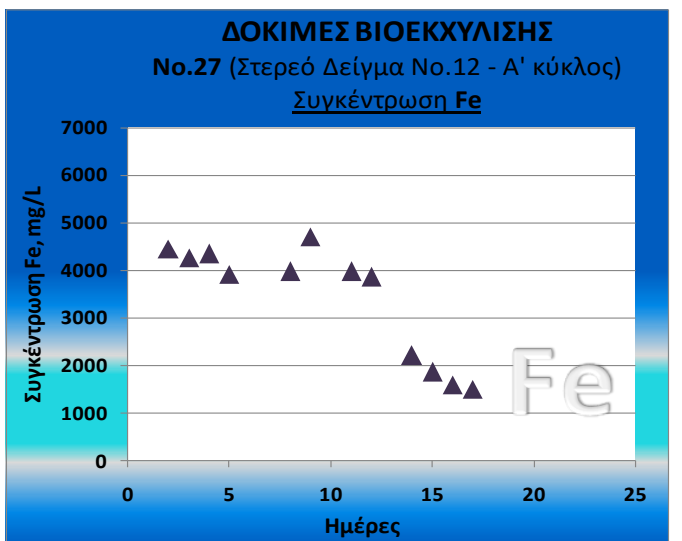
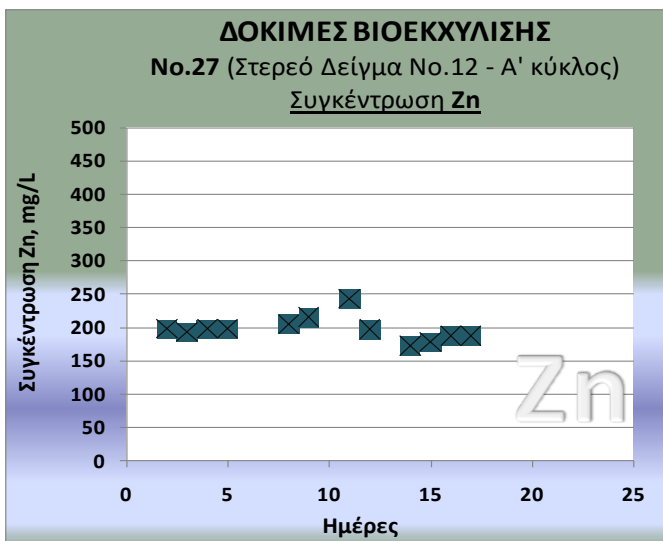
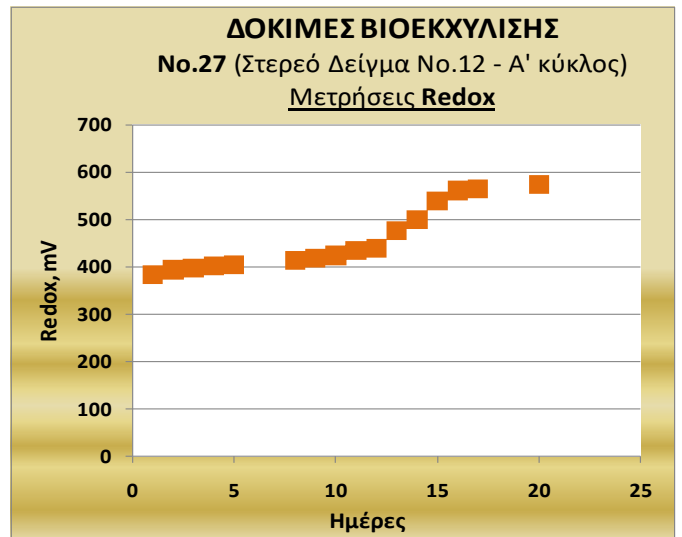
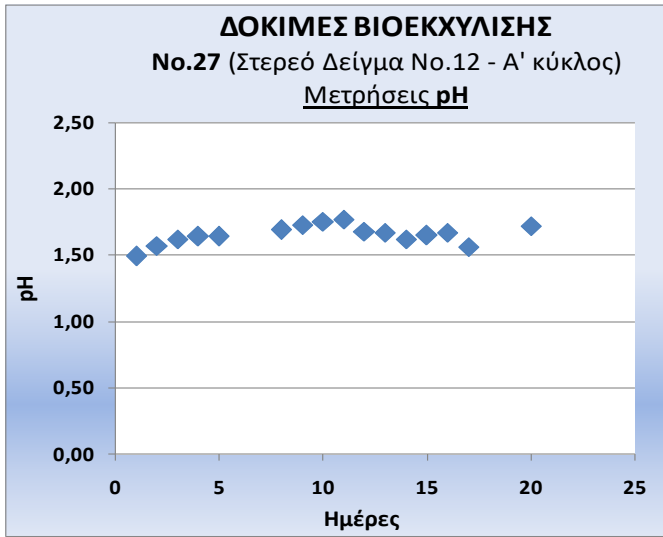
**Α' Καλλιέργεια - Ε' Μεταφορά**



**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.12**

**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 5%**

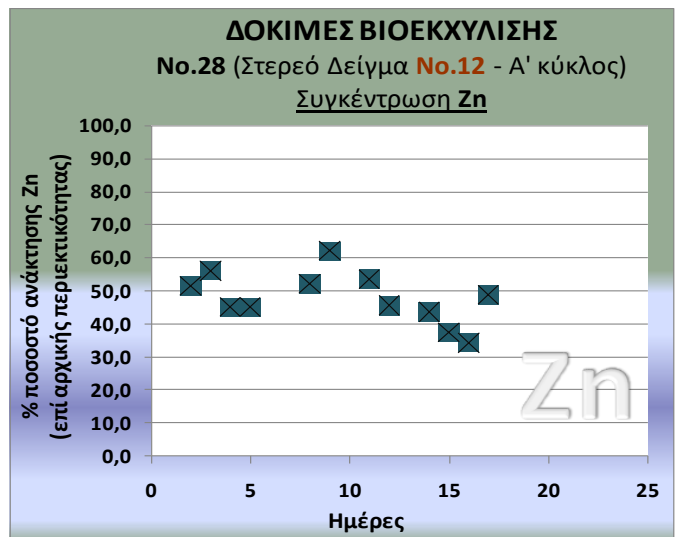
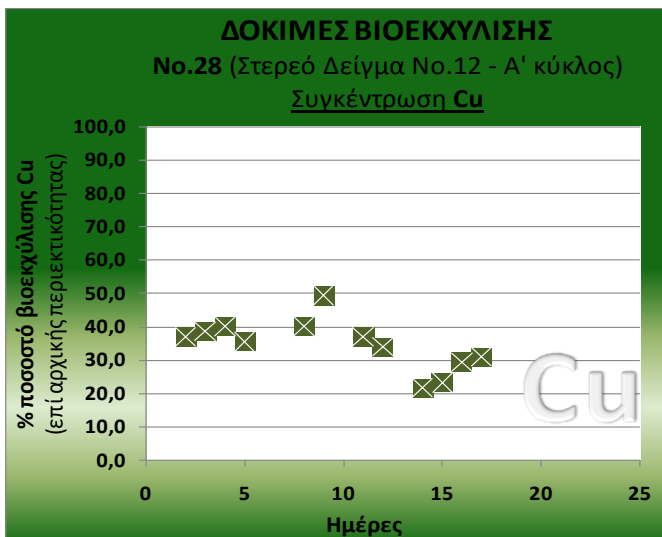
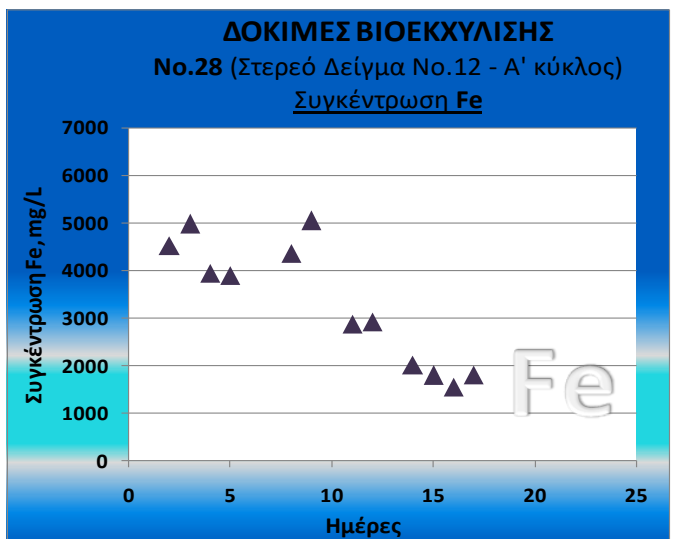
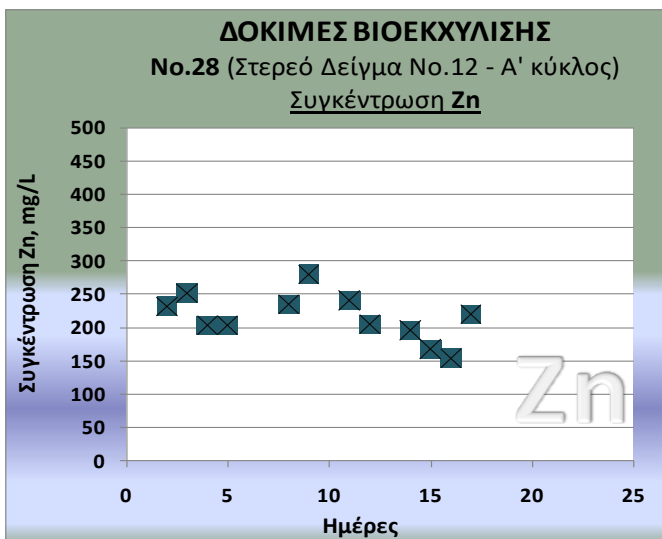
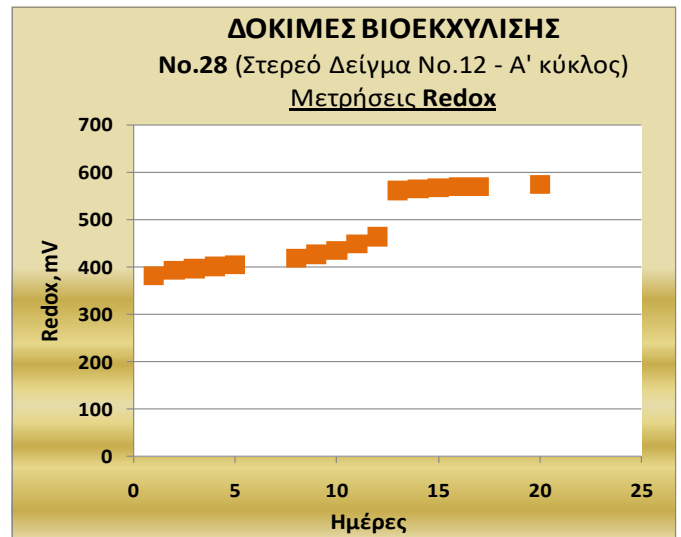
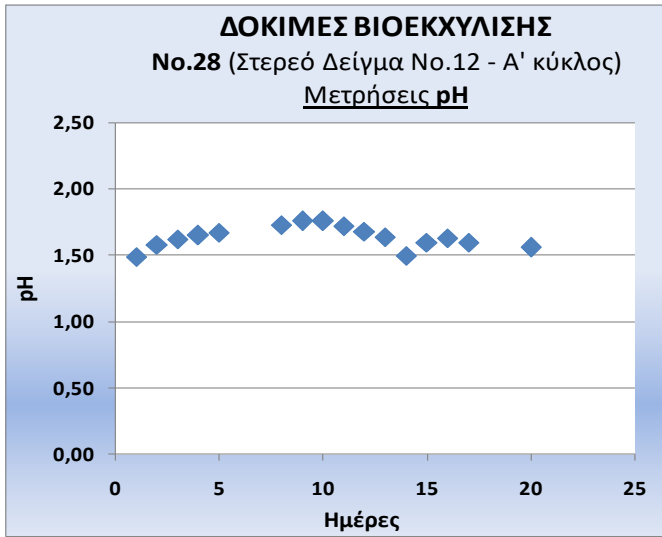
**Α' Καλλιέργεια - Α' Μεταφορά**



**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.12**

**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 5%**

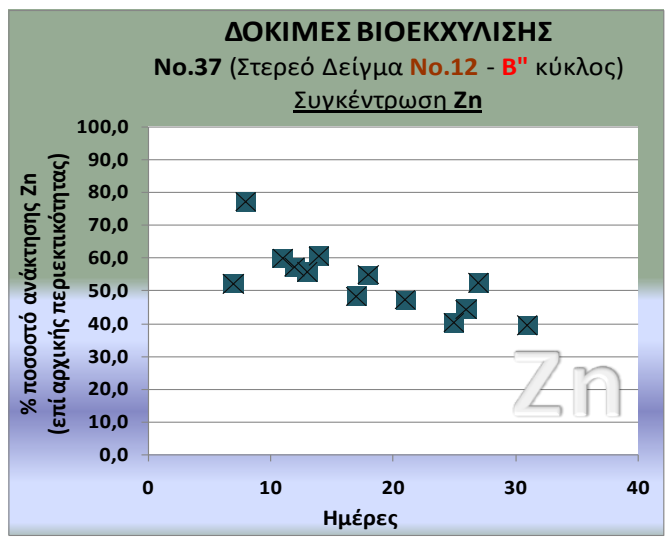
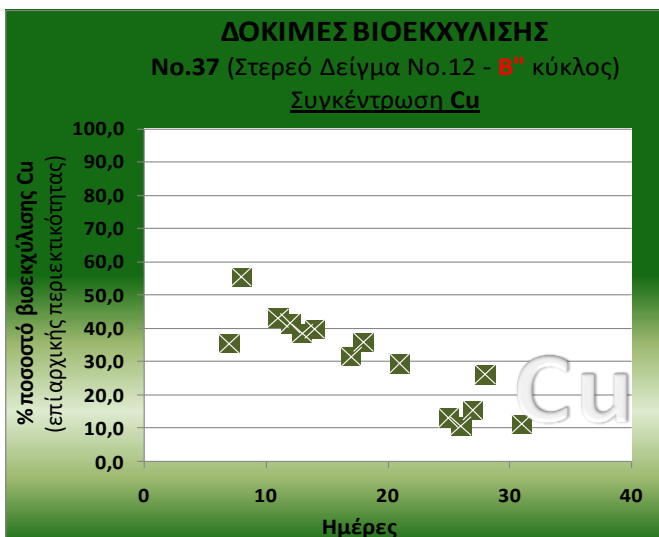
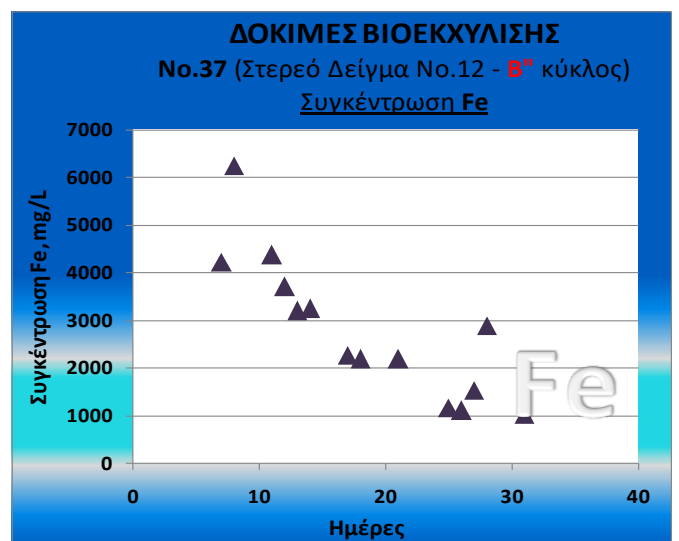
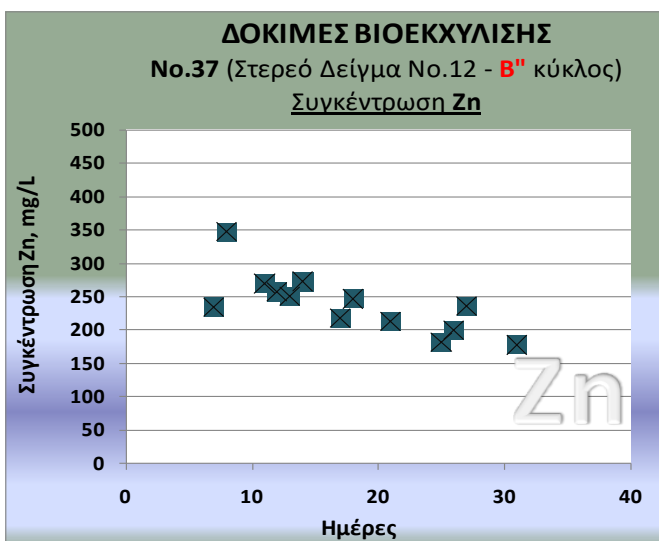
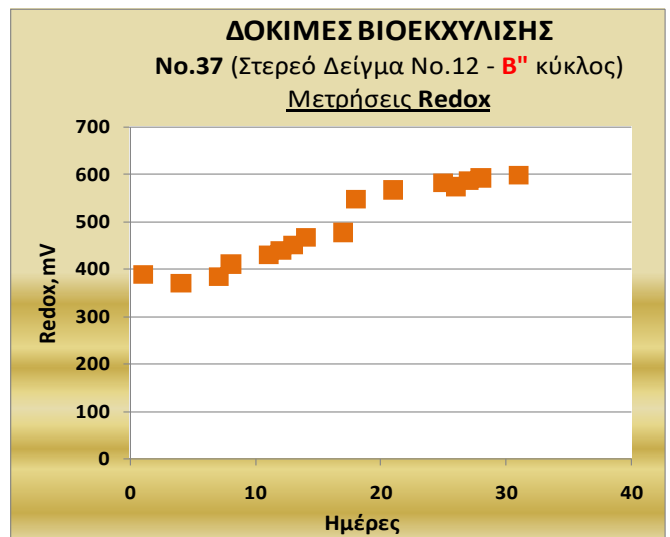
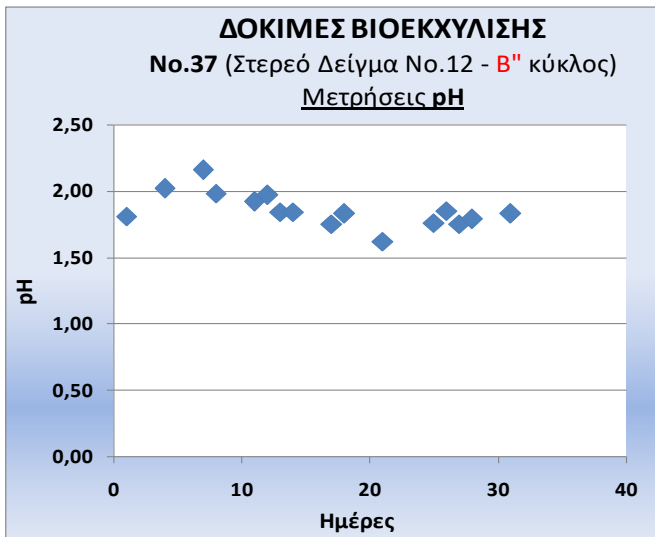
**B' Καλλιέργεια - Α' Μεταφορά**



**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.12**

**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 5%**

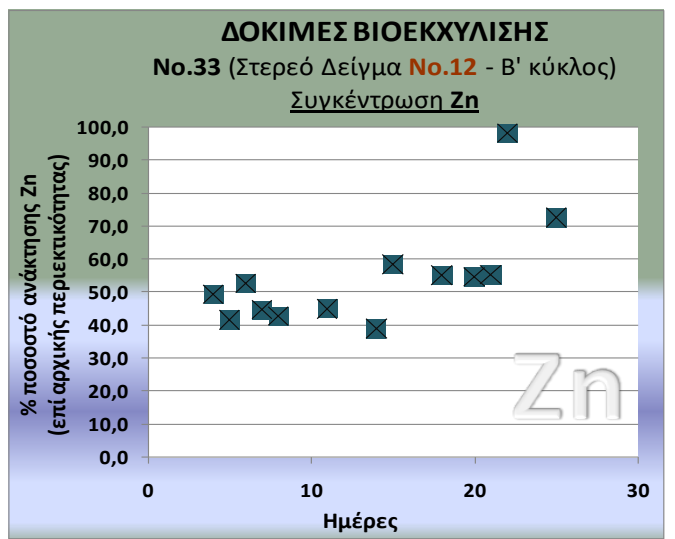
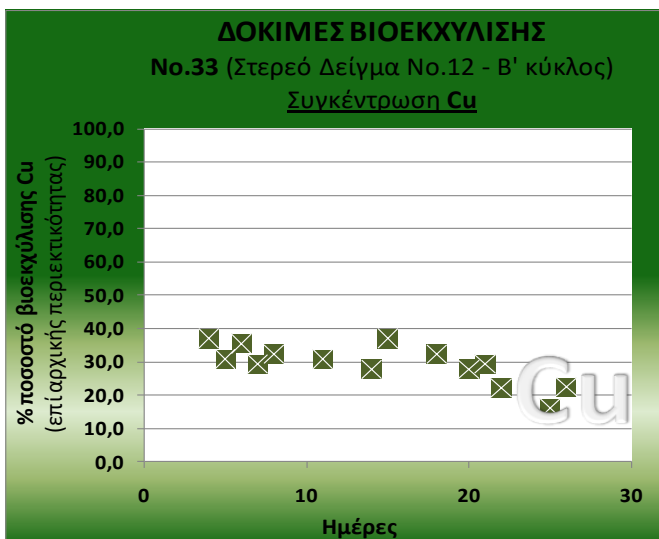
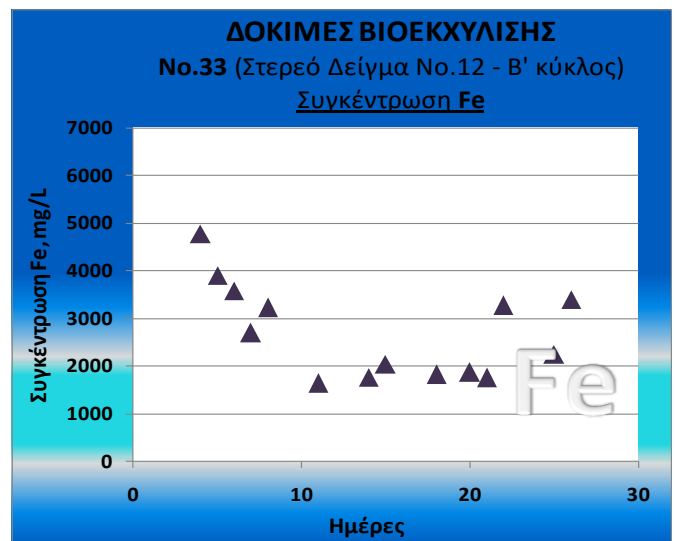
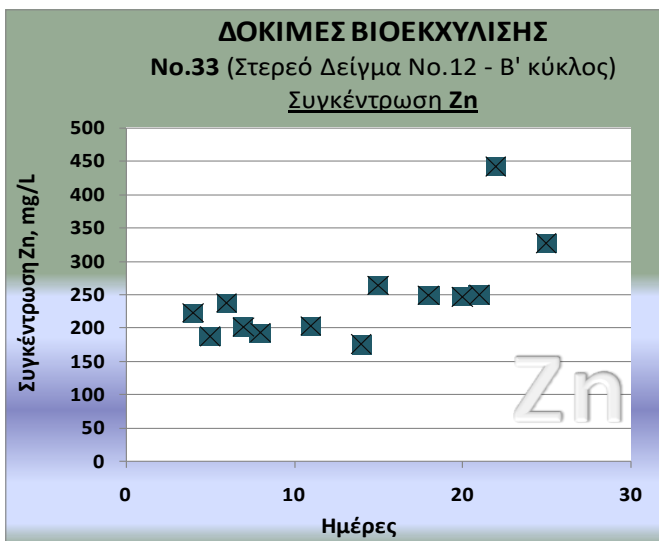
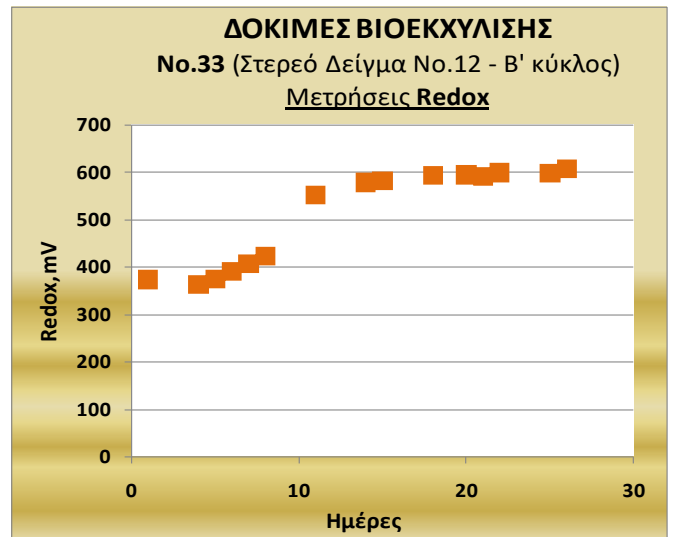
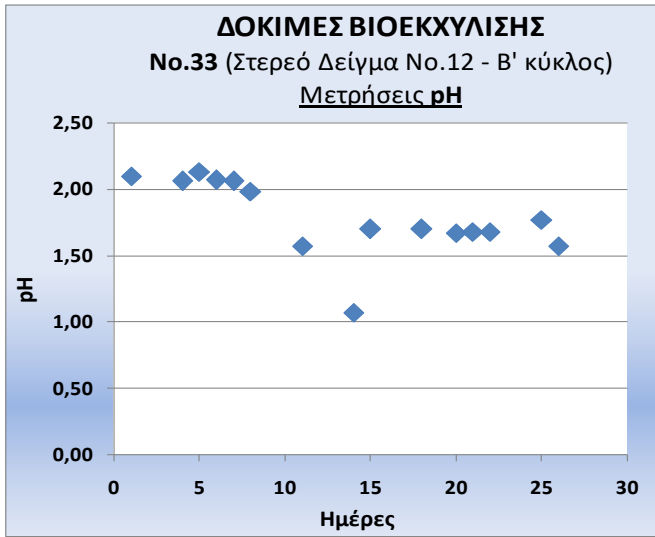
**Α' Καλλιέργεια - Β' Μεταφορά**



**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.12**

**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 5%**

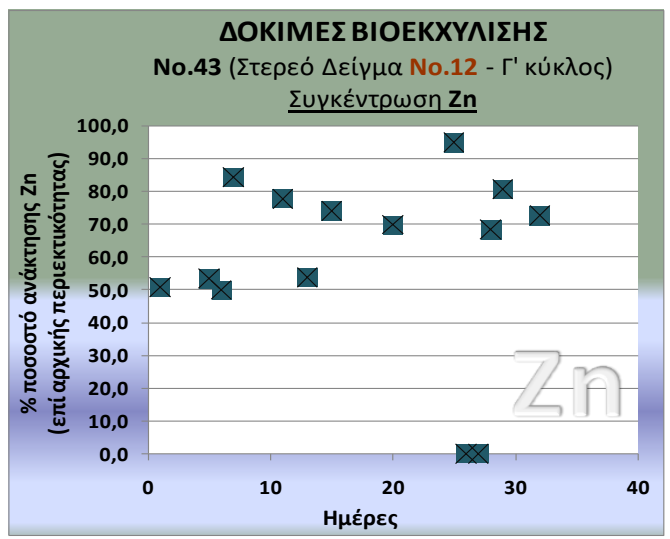
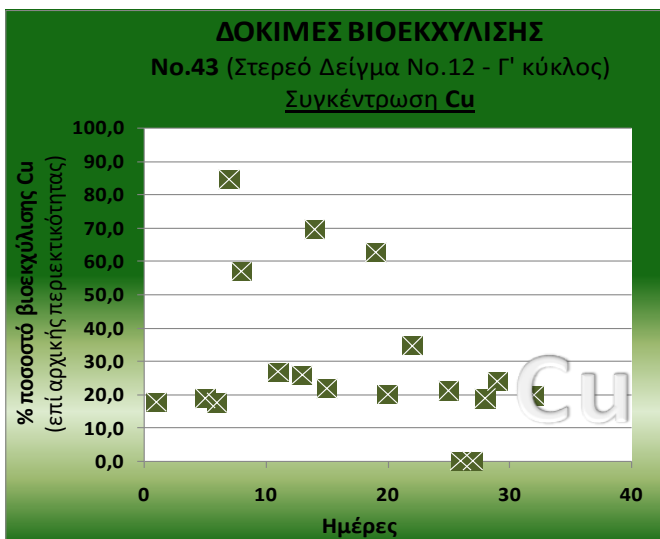
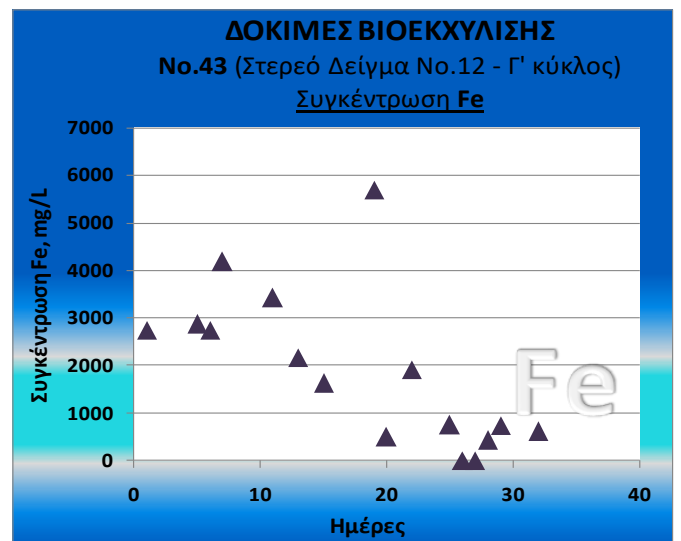
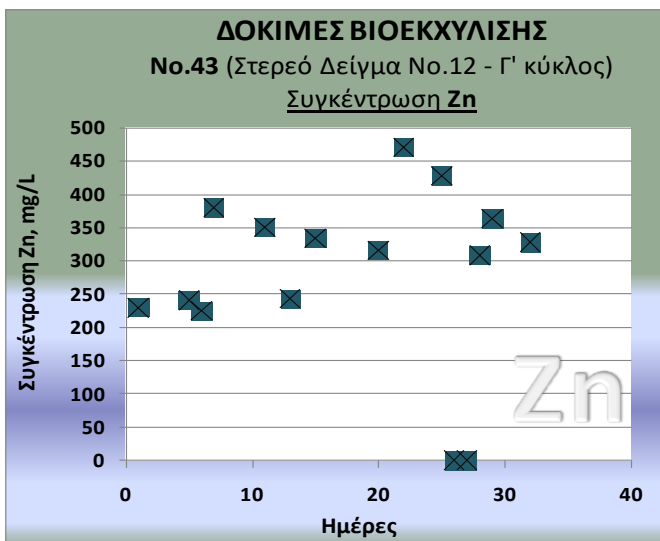
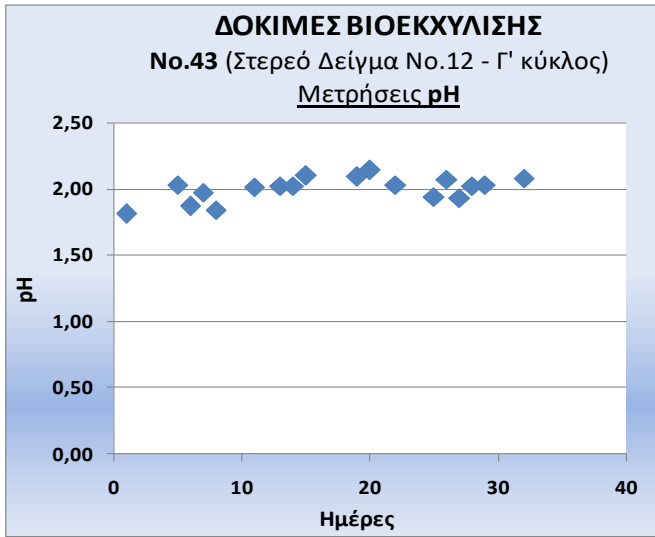
**B' Καλλιέργεια - B' Μεταφορά**



**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.12**

**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 5%**

**A' Καλλιέργεια - Γ' Μεταφορά**

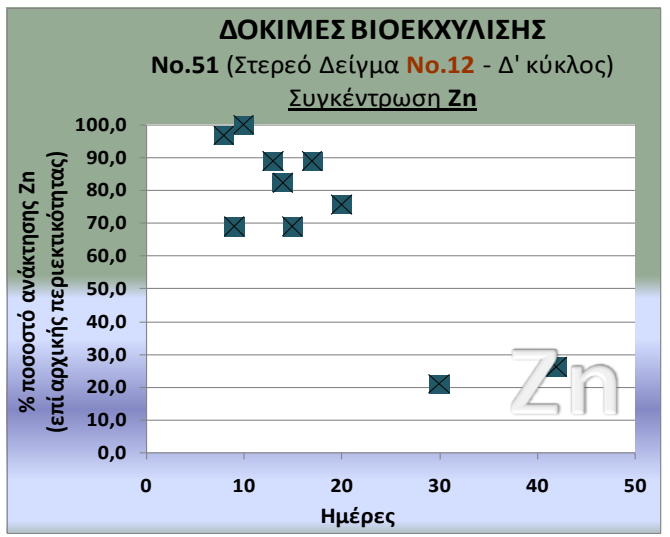
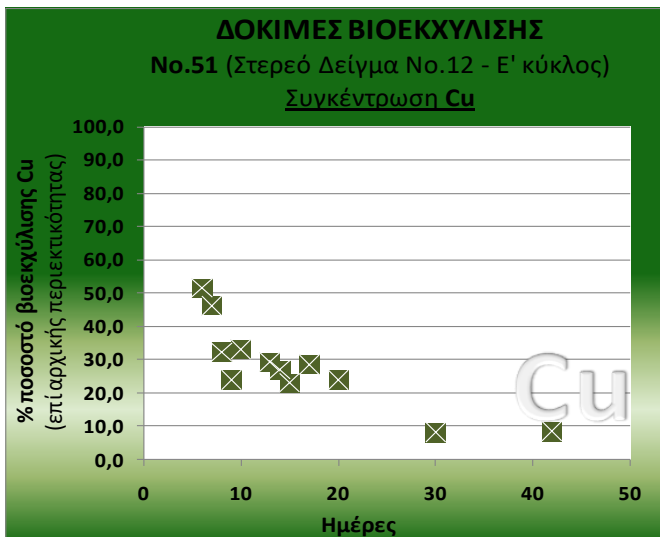
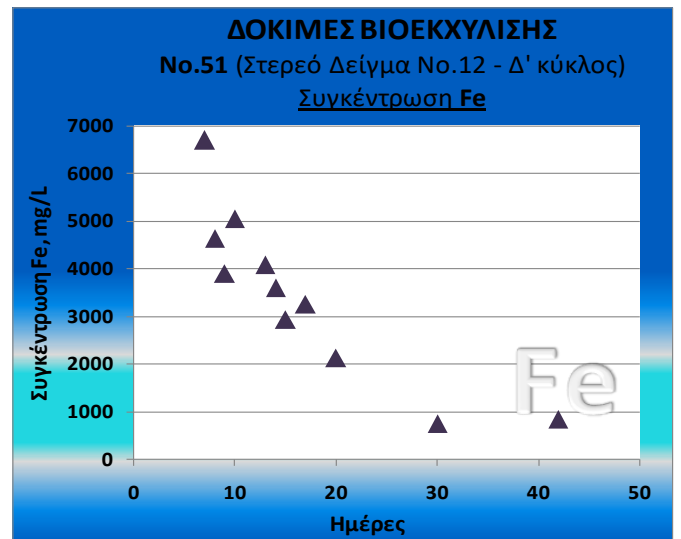
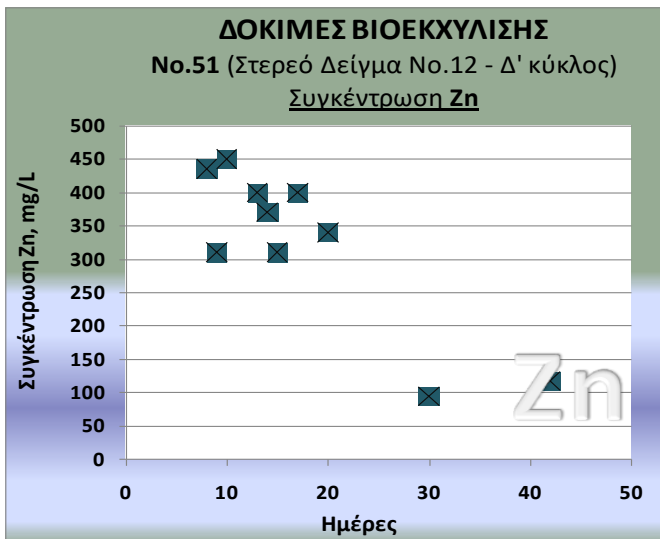
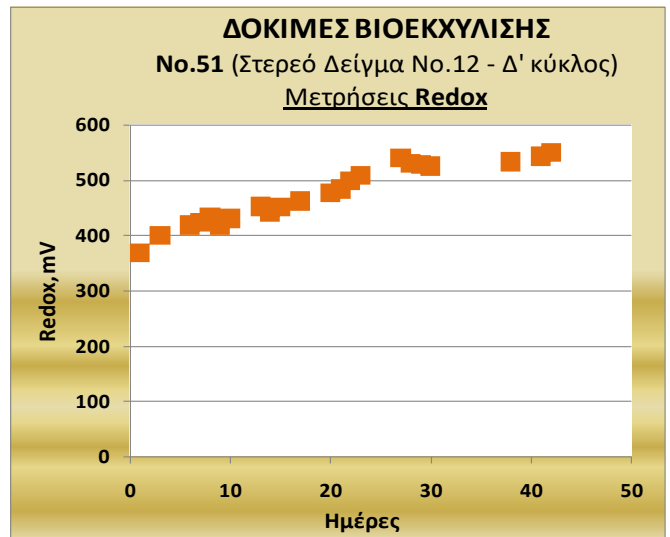
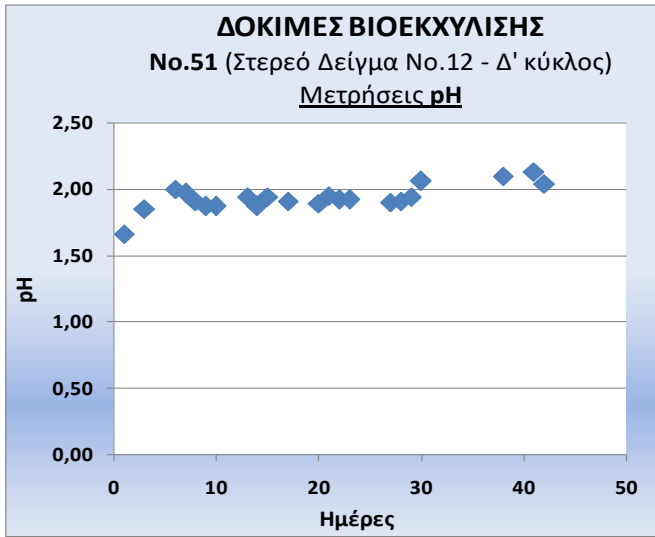


**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.12**

**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 5%**

**A' Καλλιέργεια - Δ' Μεταφορά**

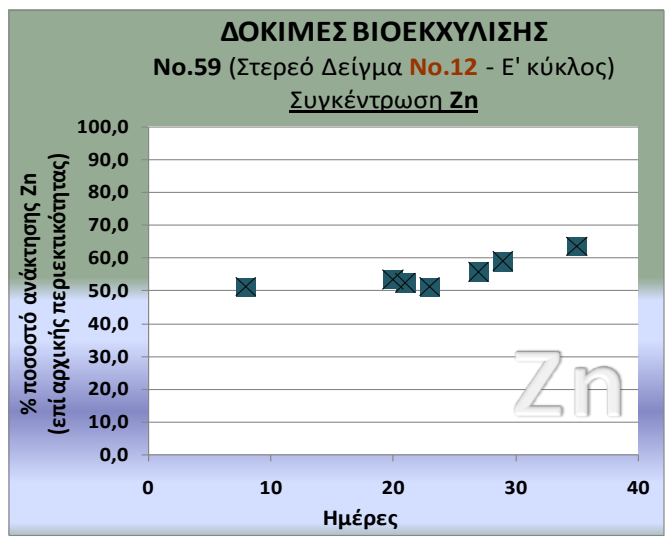
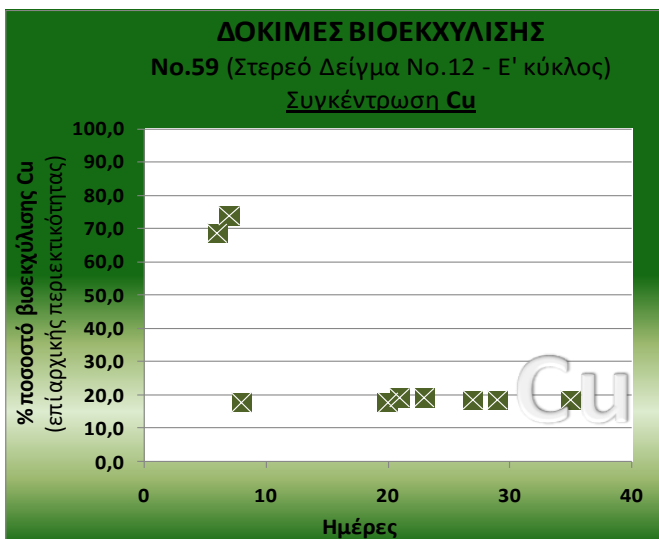
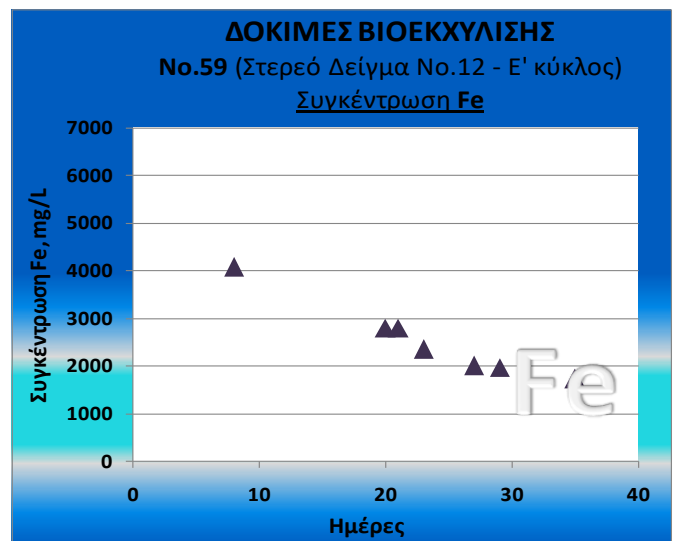
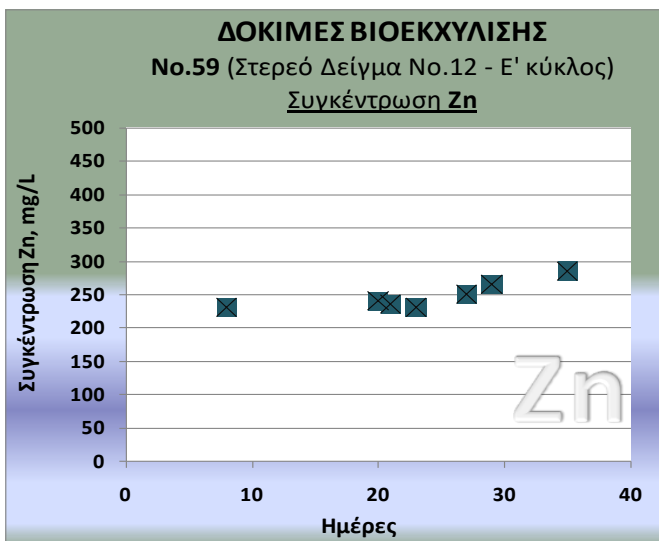
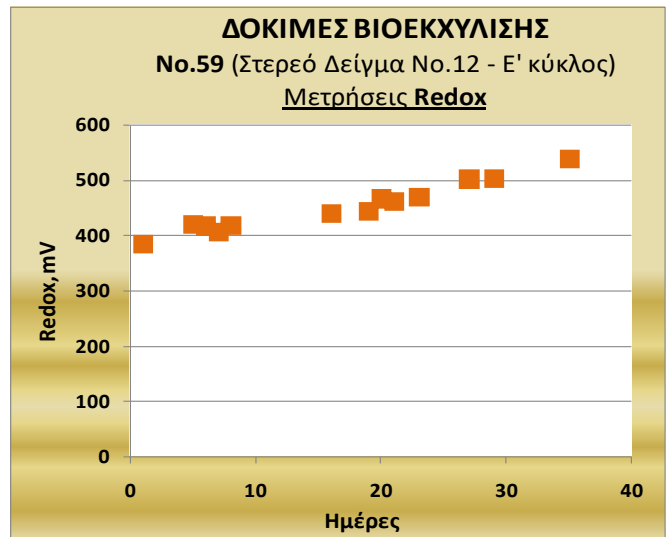
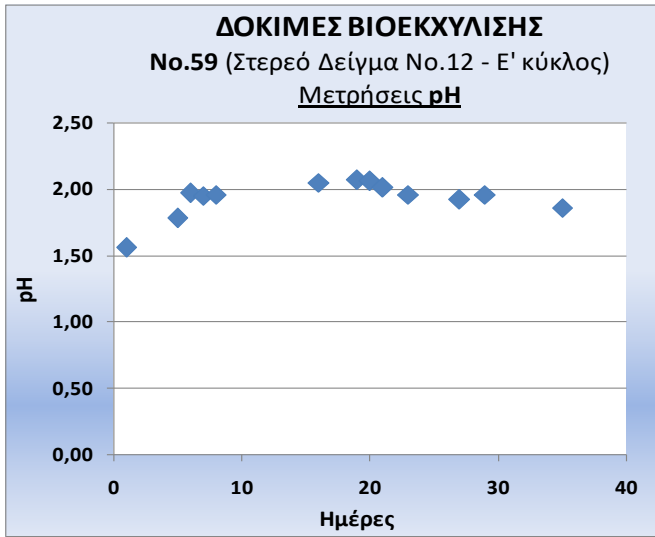




**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.12**

**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 5%**

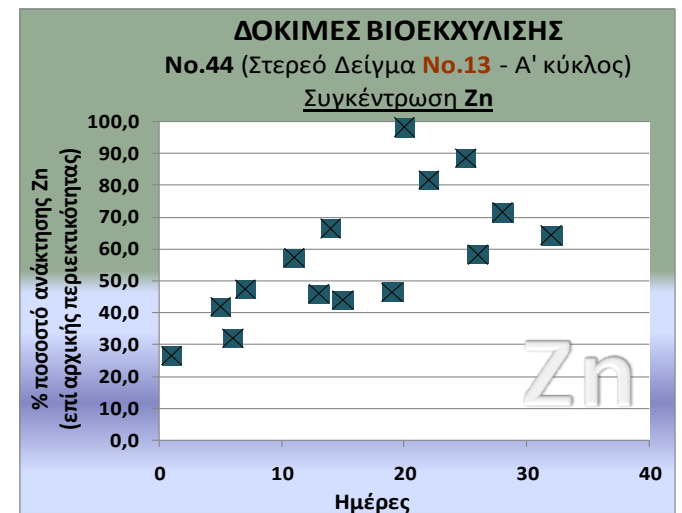
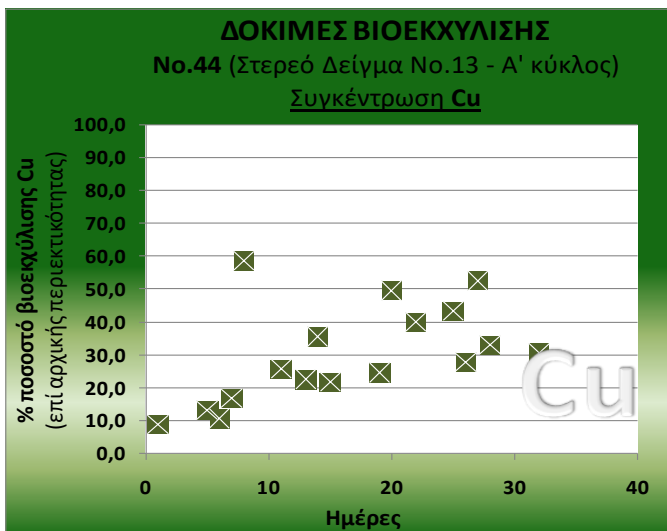
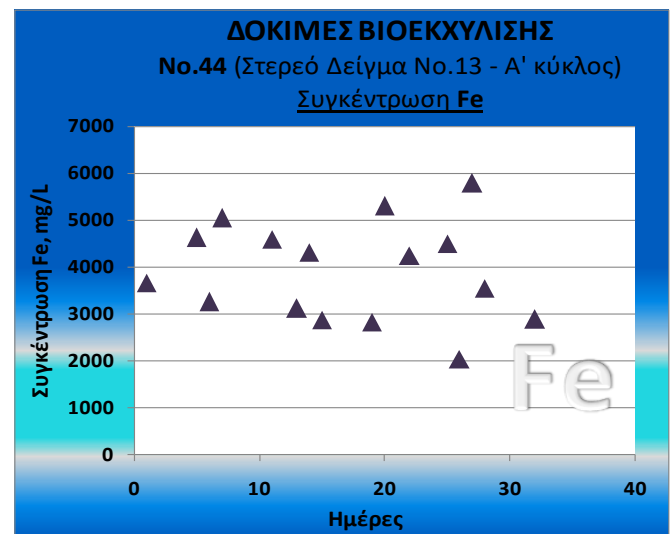
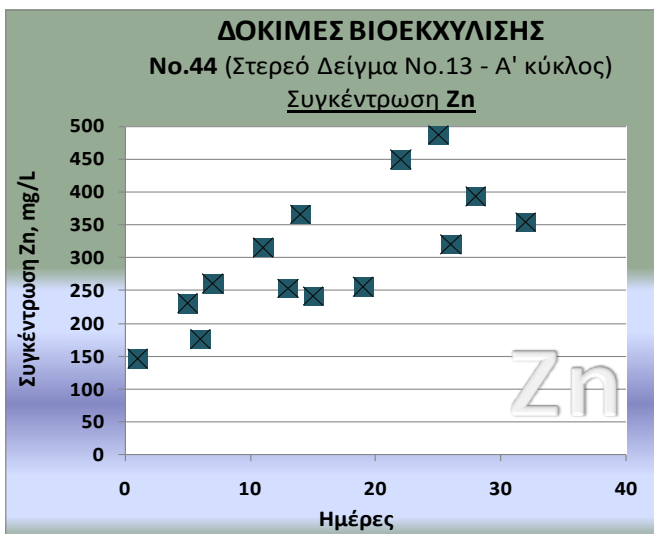
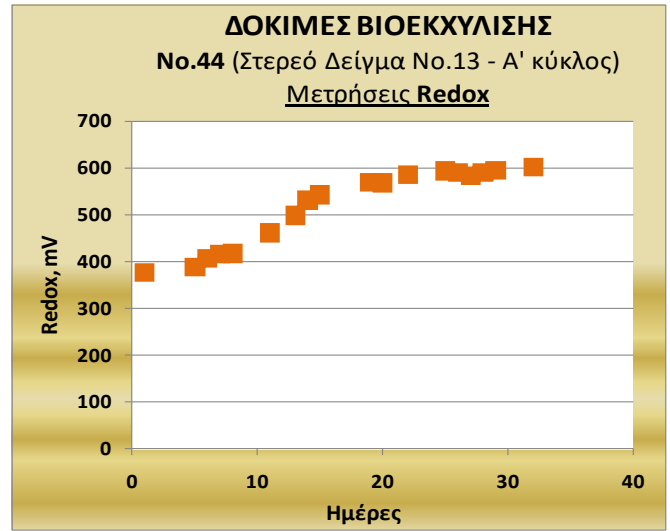
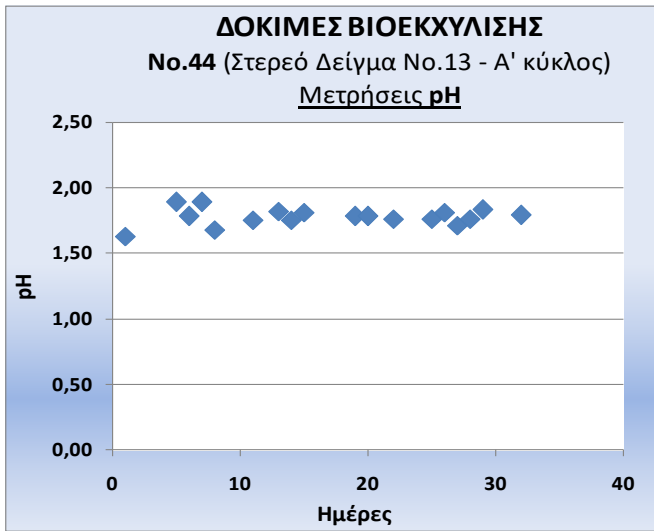
**Α' Καλλιέργεια - Ε' Μεταφορά**



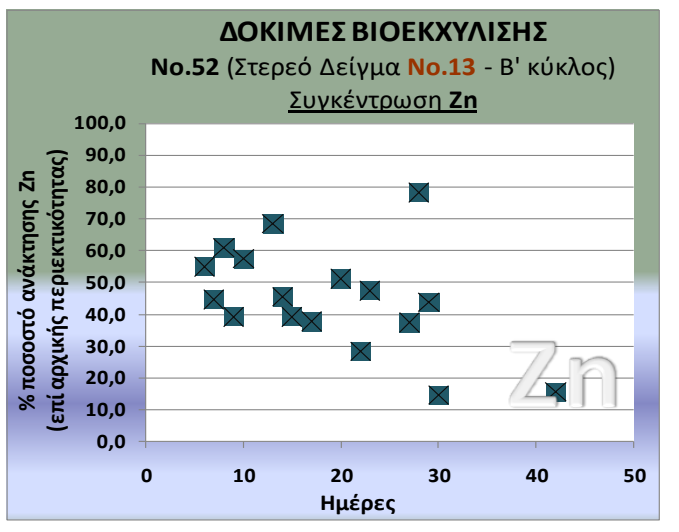
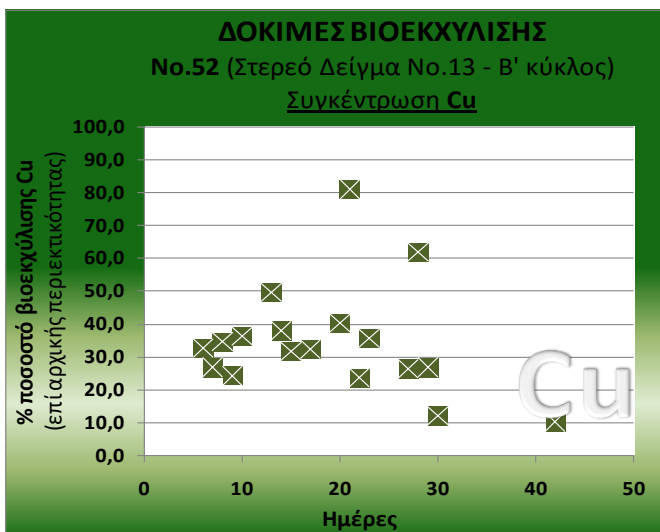
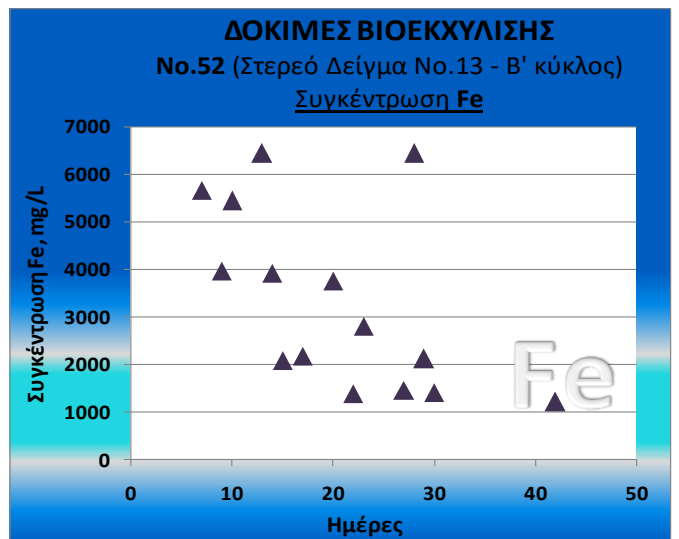
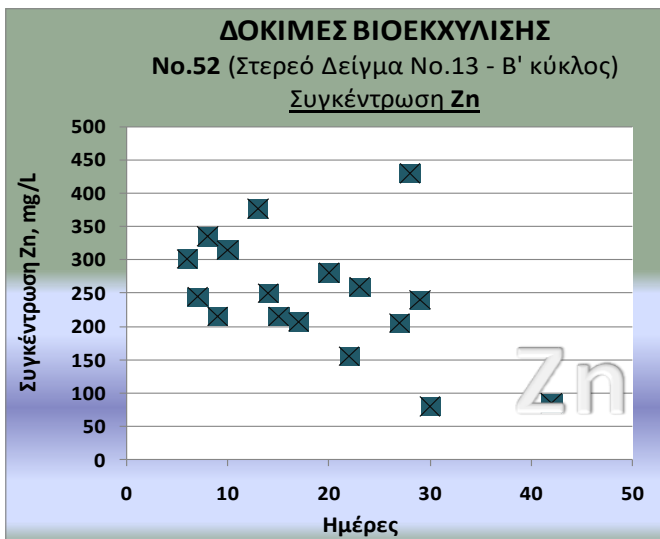
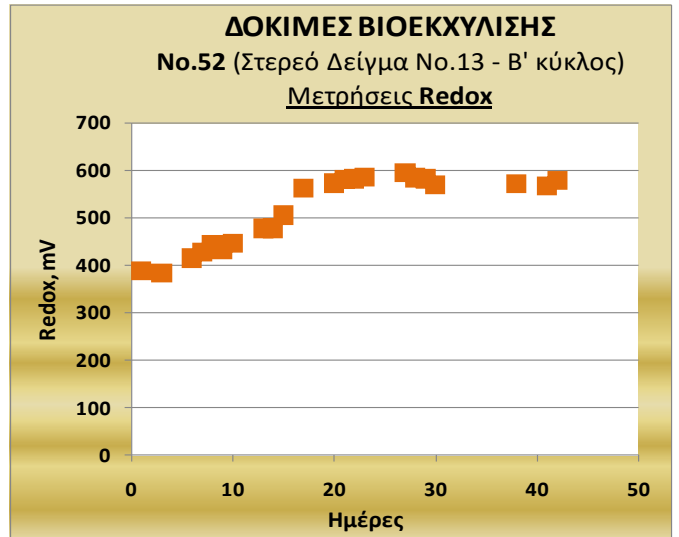
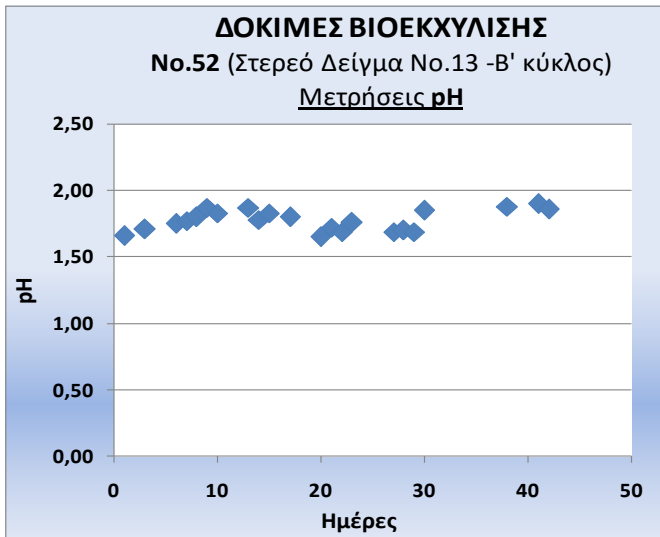
**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.13**

**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 5%**

**Α' Μεταφορά**



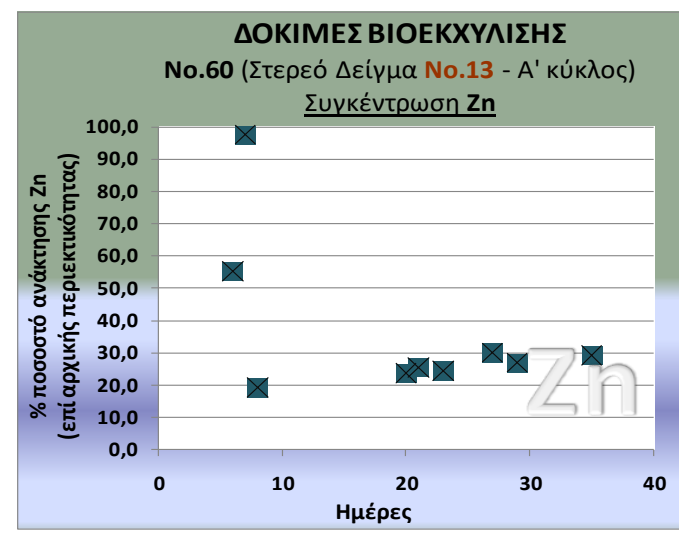
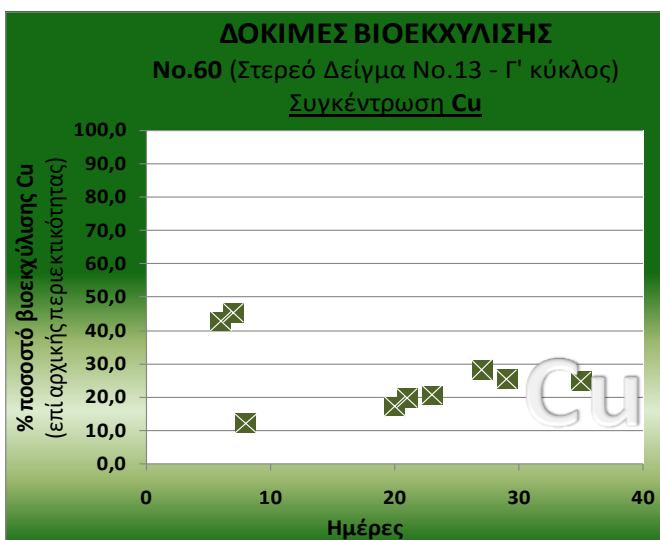
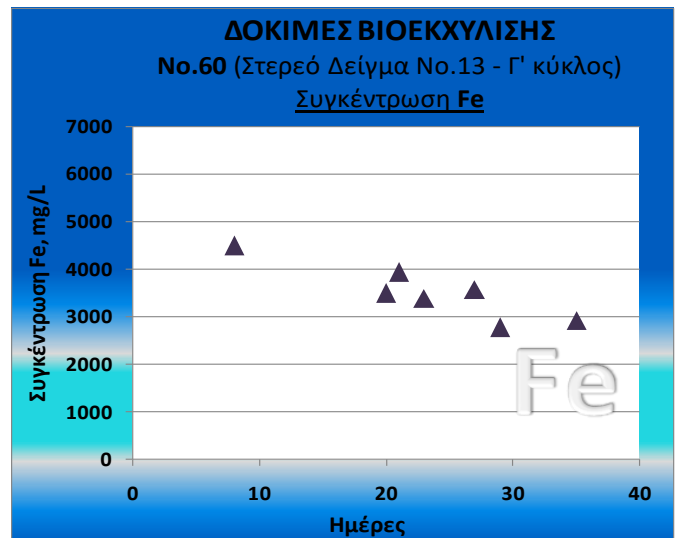
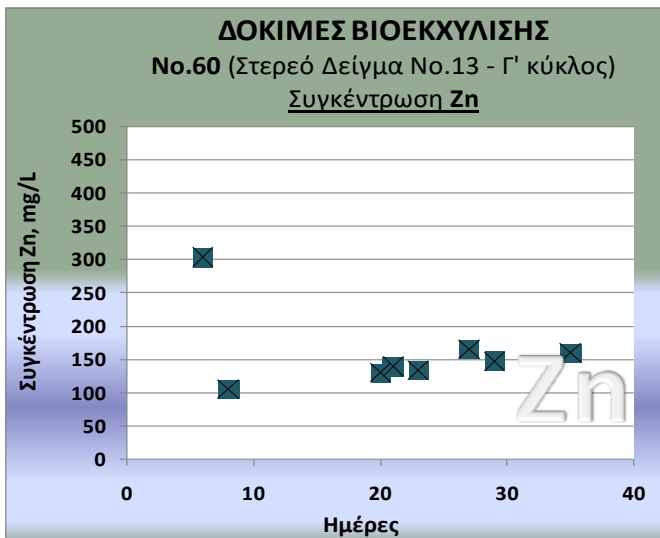
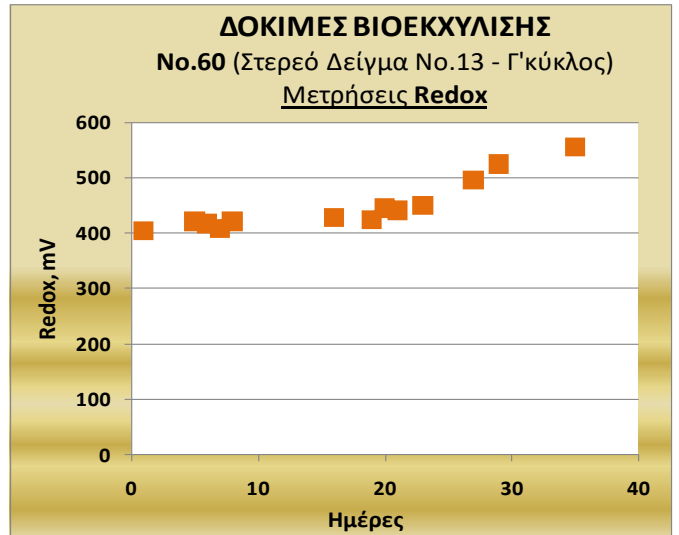
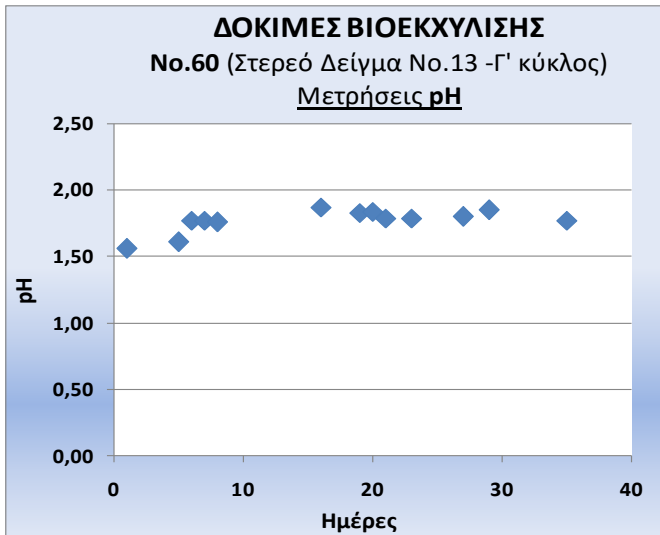
**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.13**  
**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 5%**  
**Β' Μεταφορά**



**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.13**

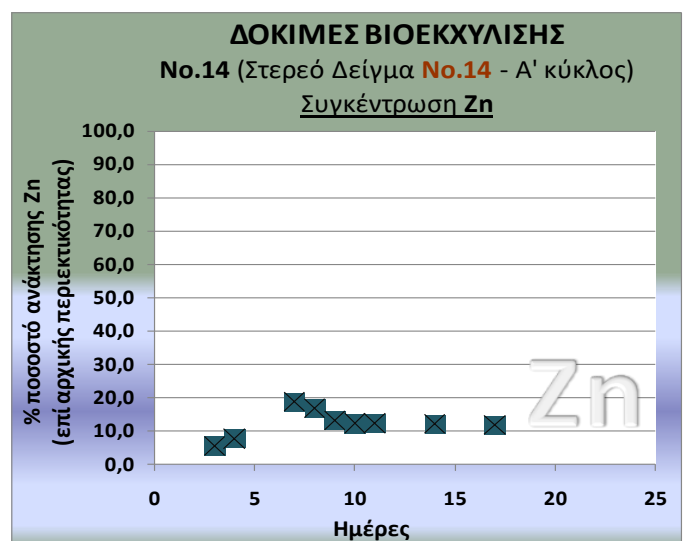
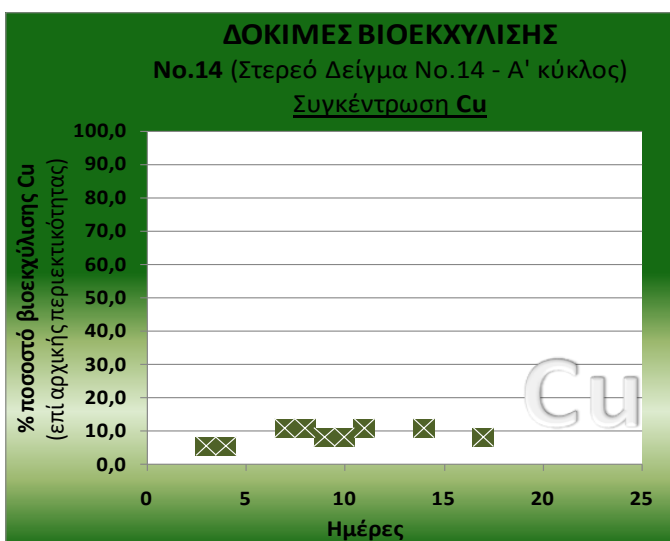
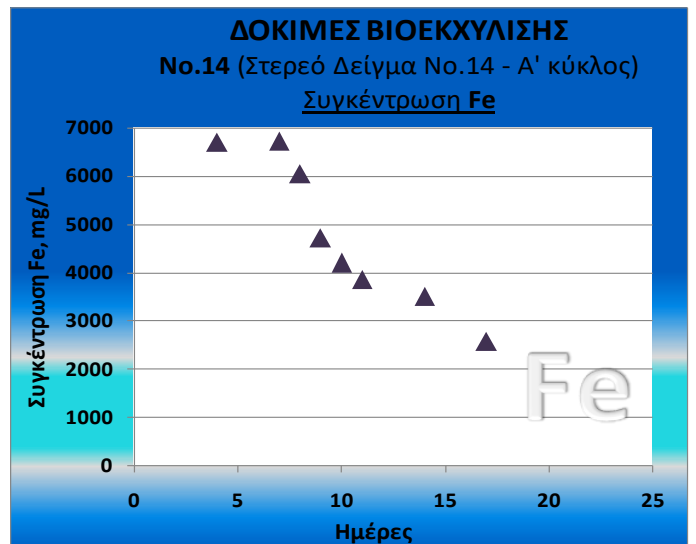
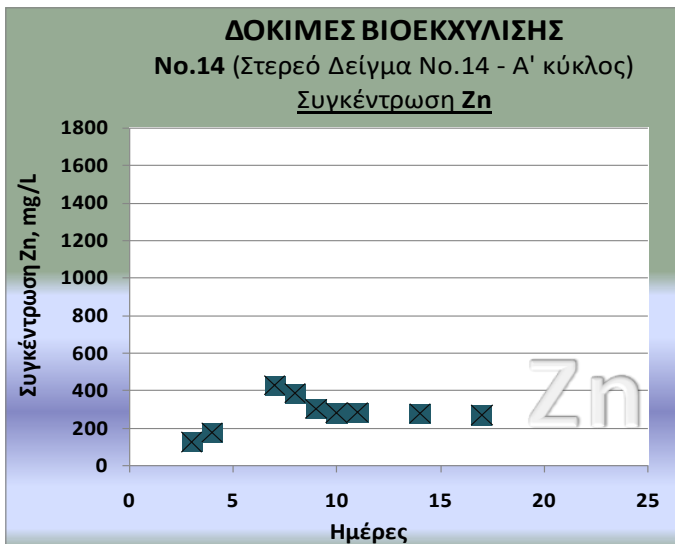
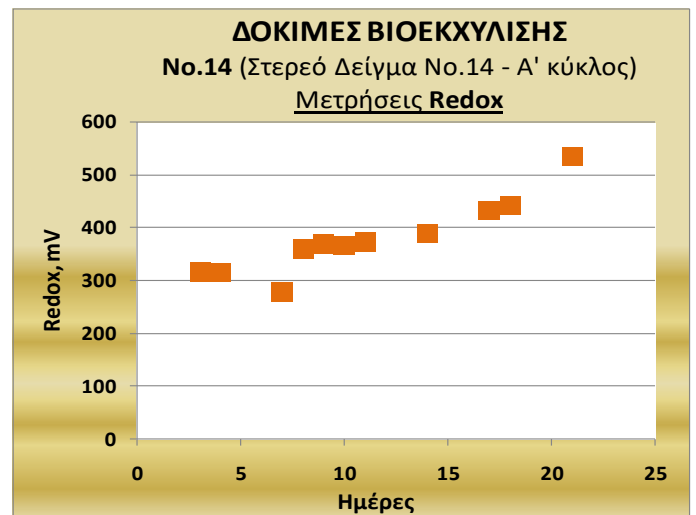
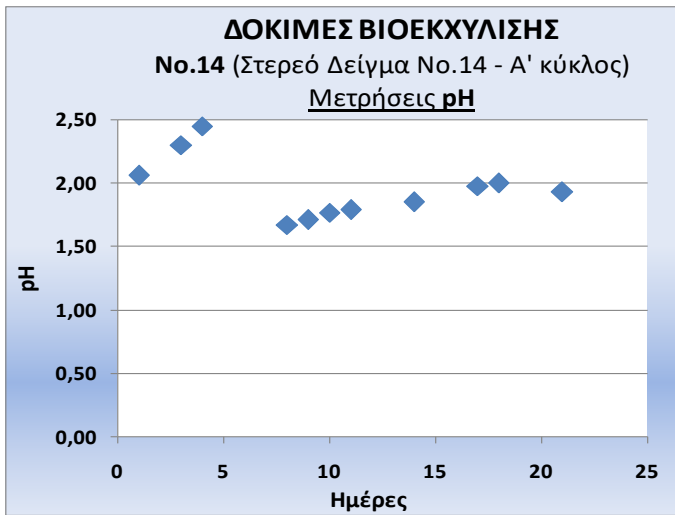
**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 5%**

## Γ' Μεταφορά



**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.14**  
**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 5%**

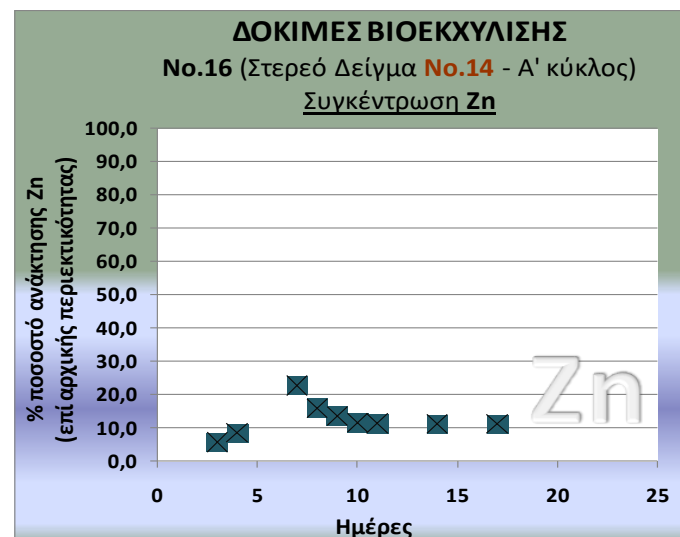
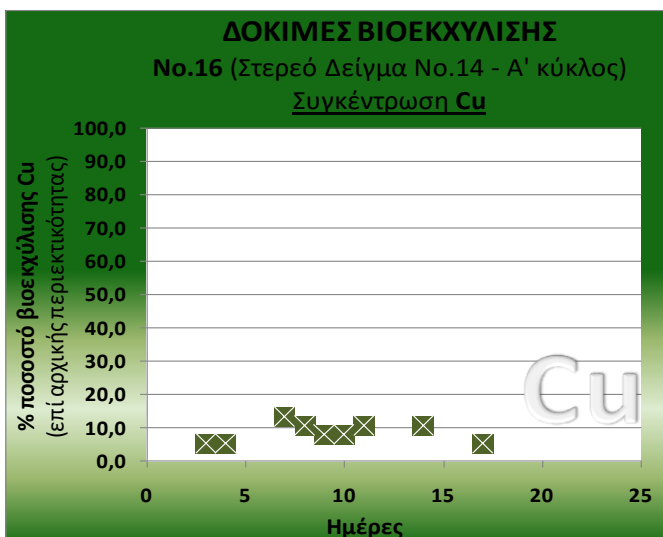
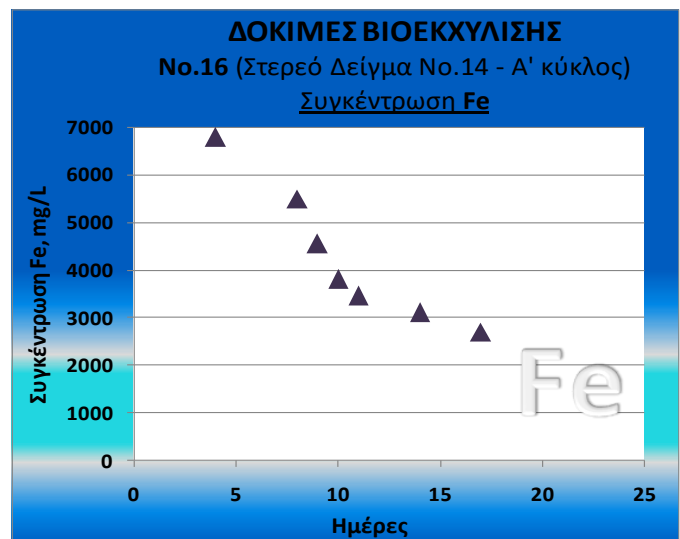
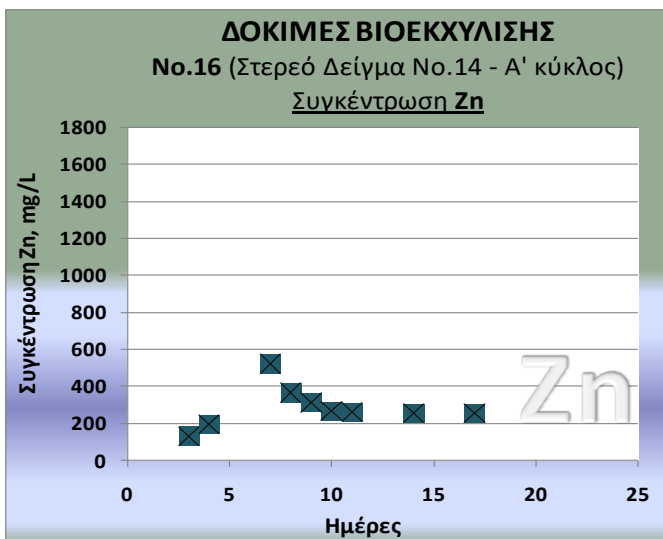
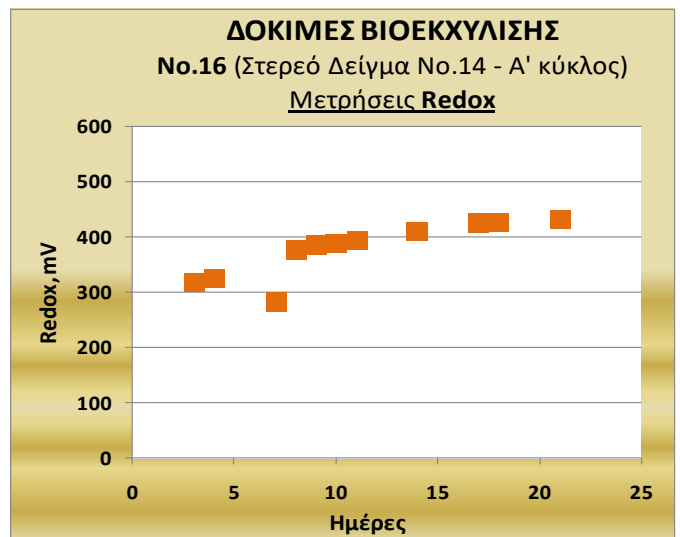
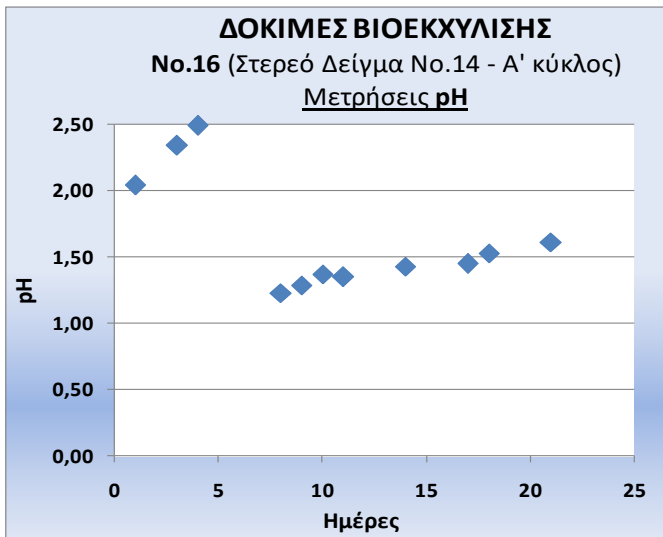
## Α' Καλλιέργεια – Α' Μεταφορά



**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.14**

**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 5%**

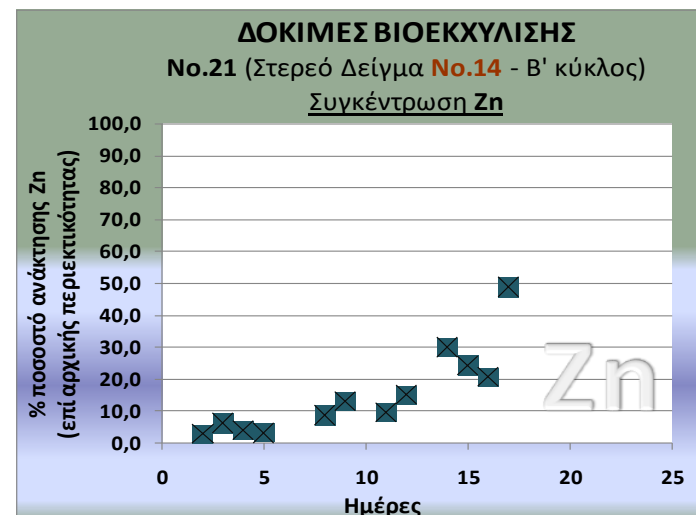
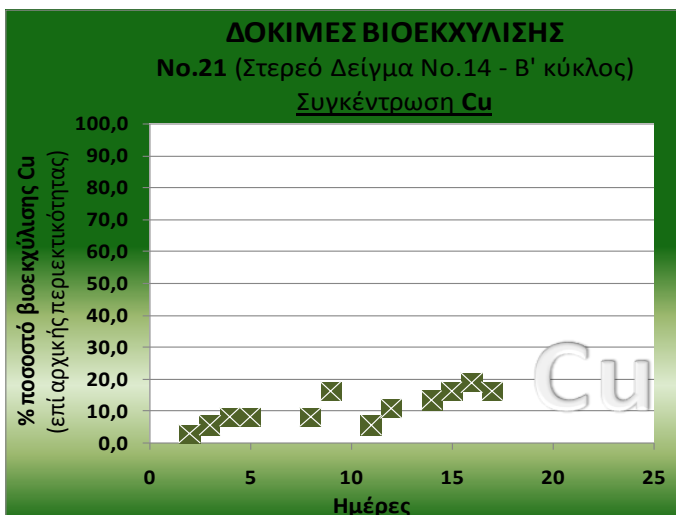
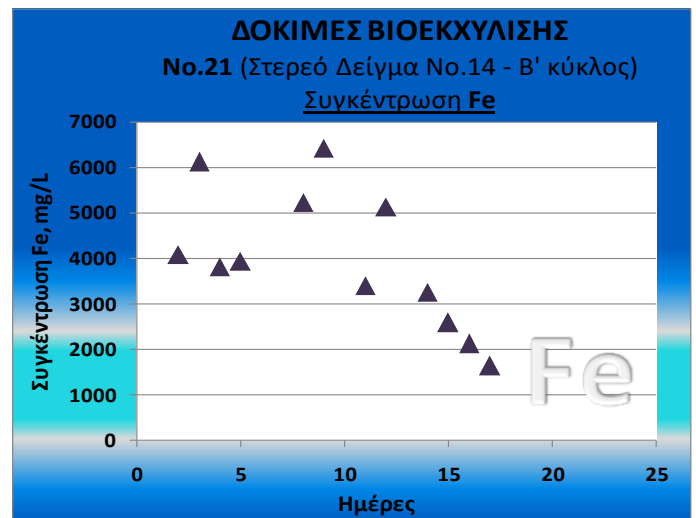
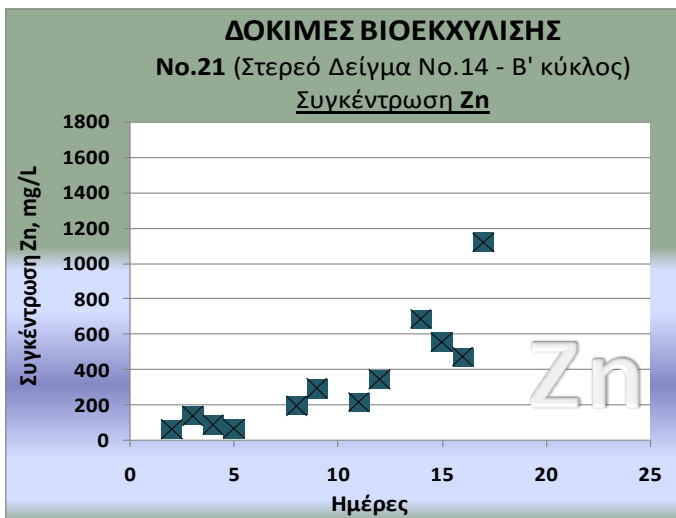
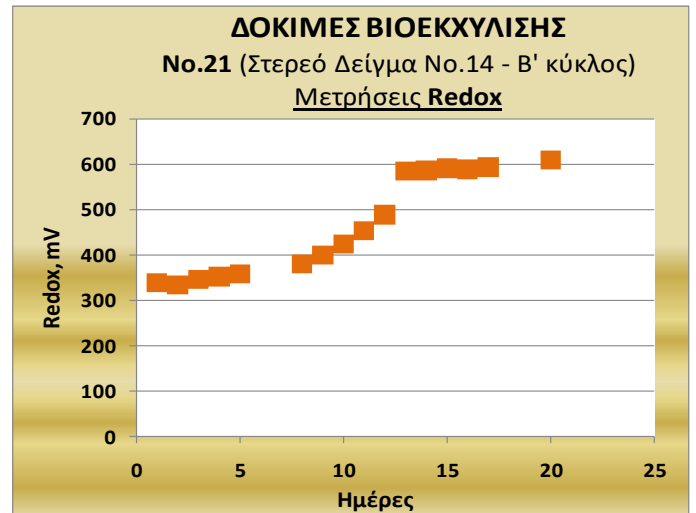
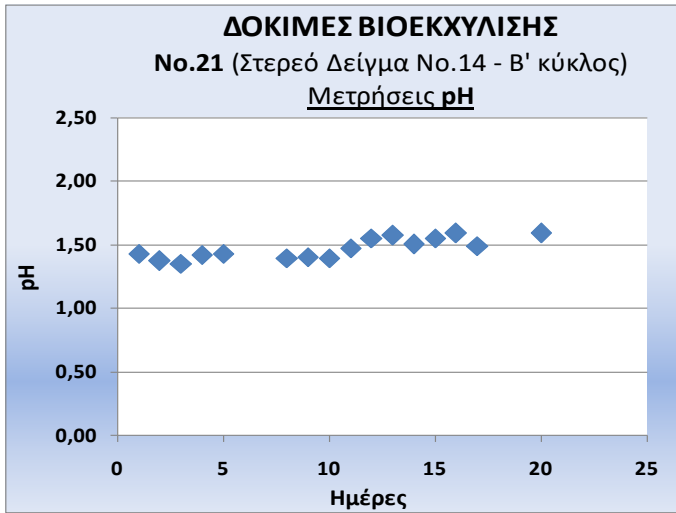
**Β' Καλλιέργεια – Α' Μεταφορά**



**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.14**

**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 5%**

**Α' Καλλιέργεια - Β' Μεταφορά**

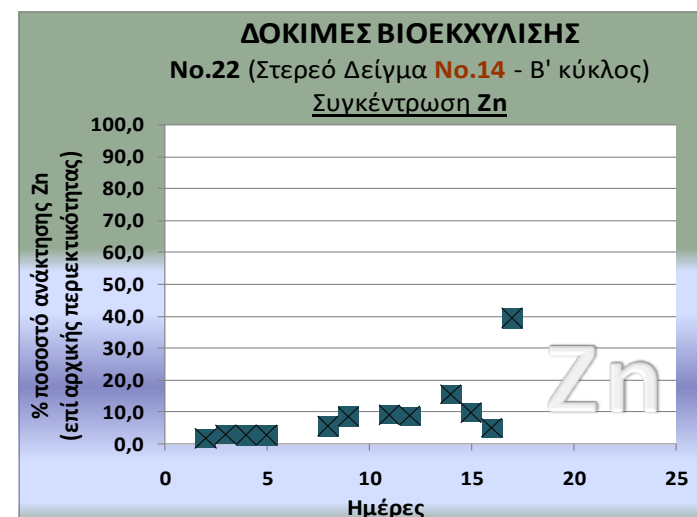
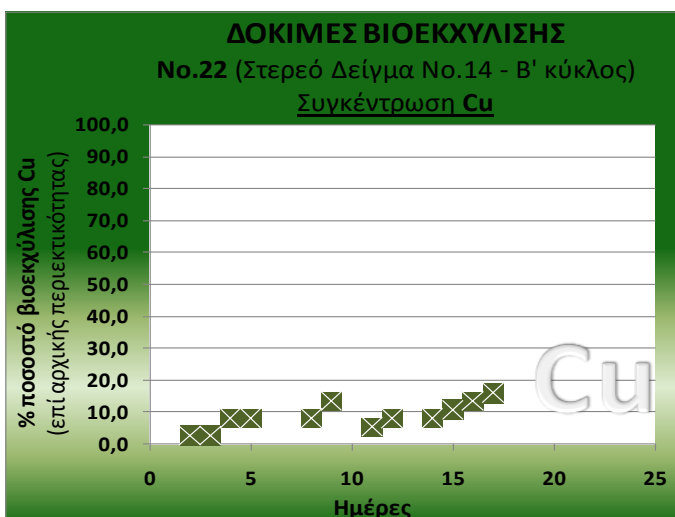
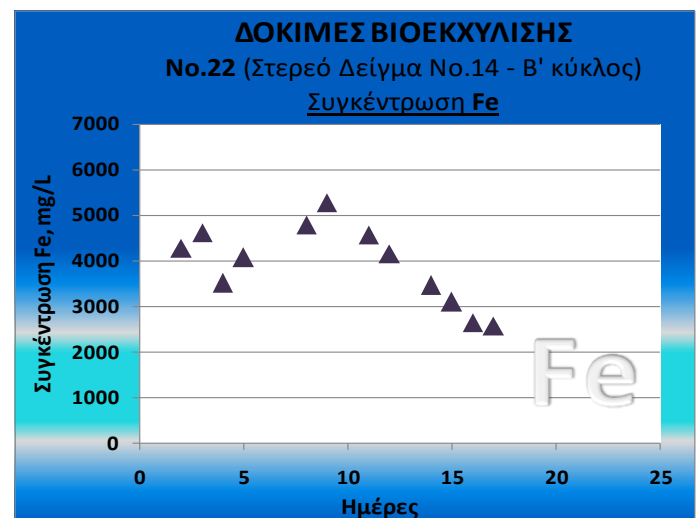
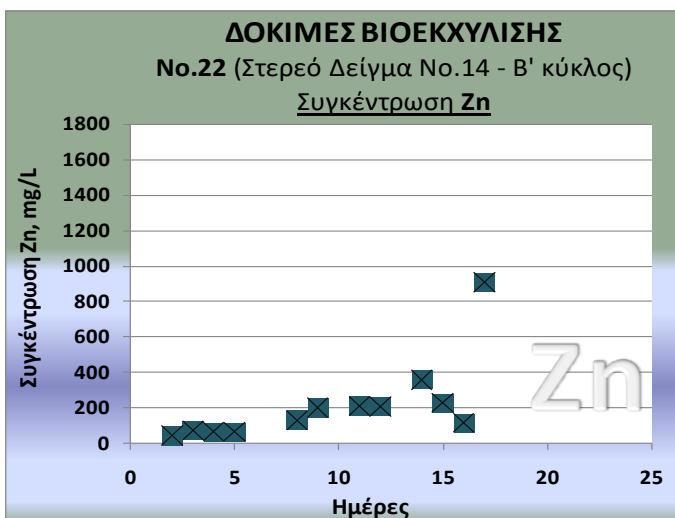
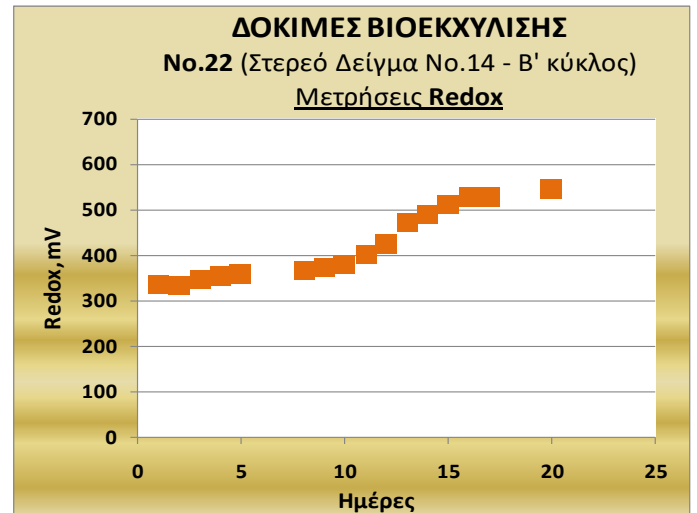
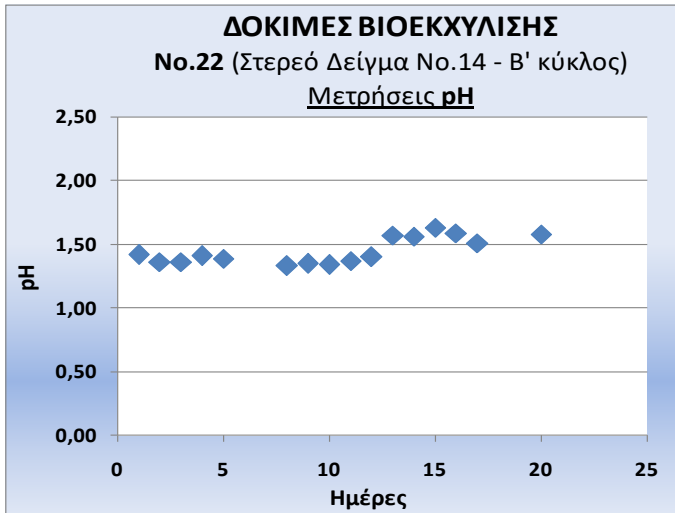


**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.14**

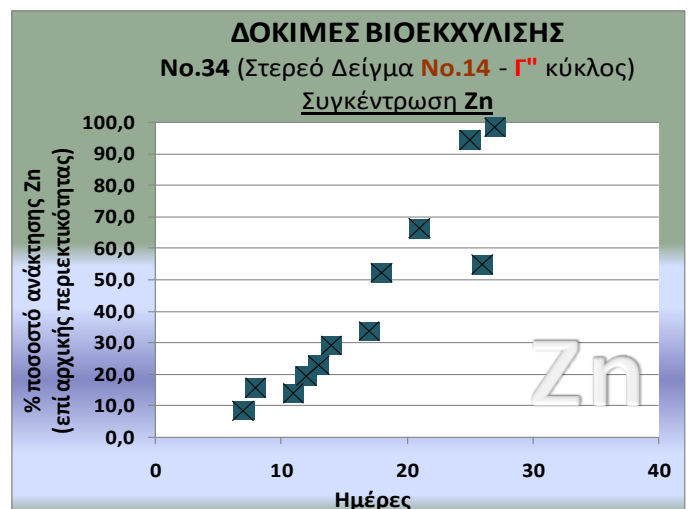
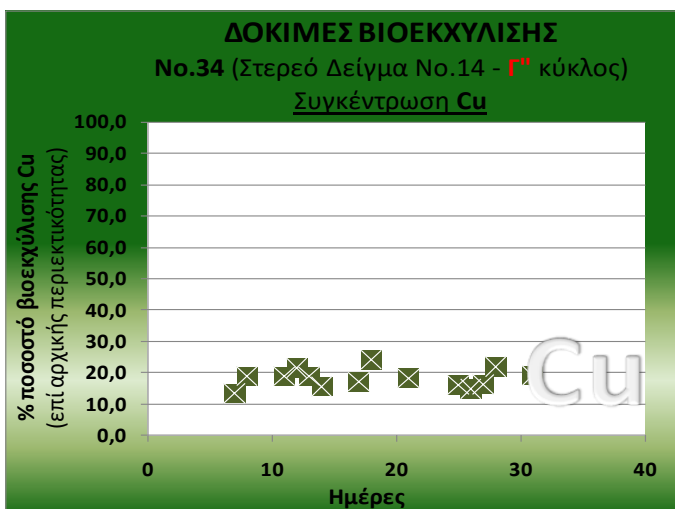
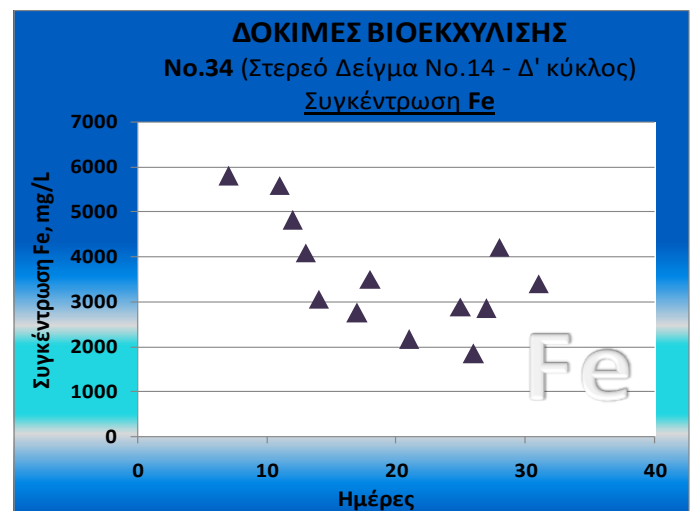
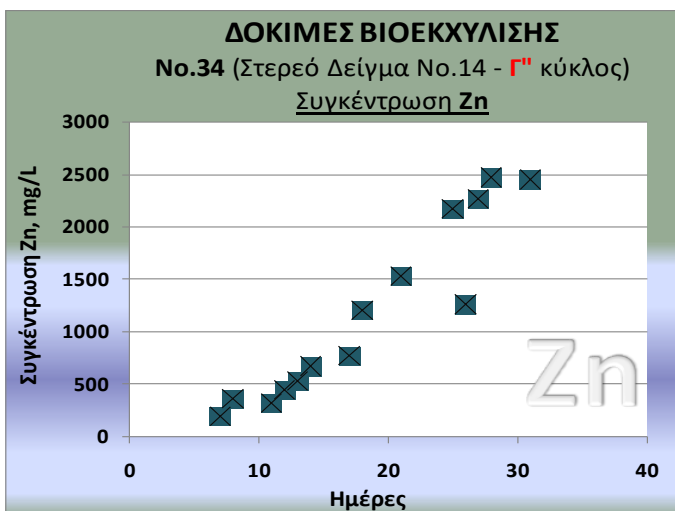
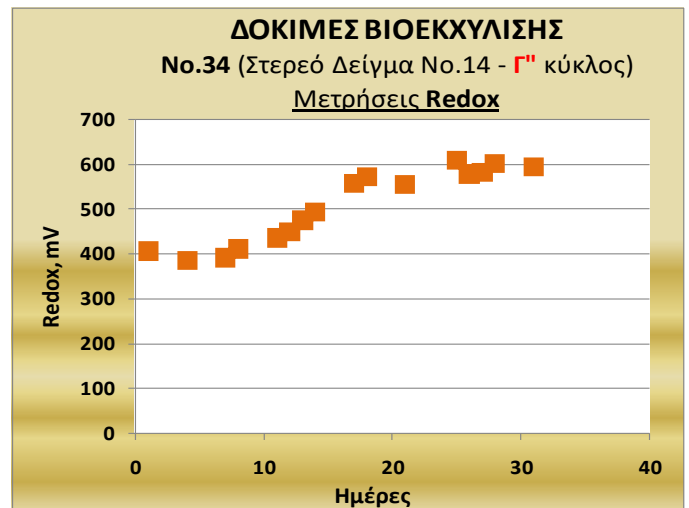
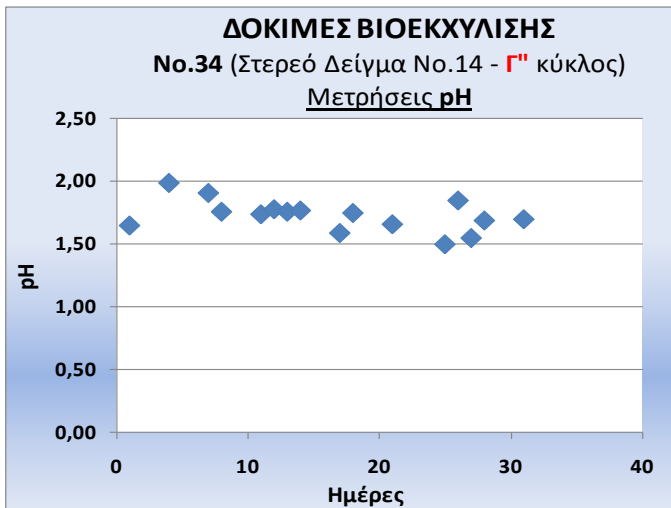
**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 5%**

**Β' Καλλιέργεια – Β' Μεταφορά**

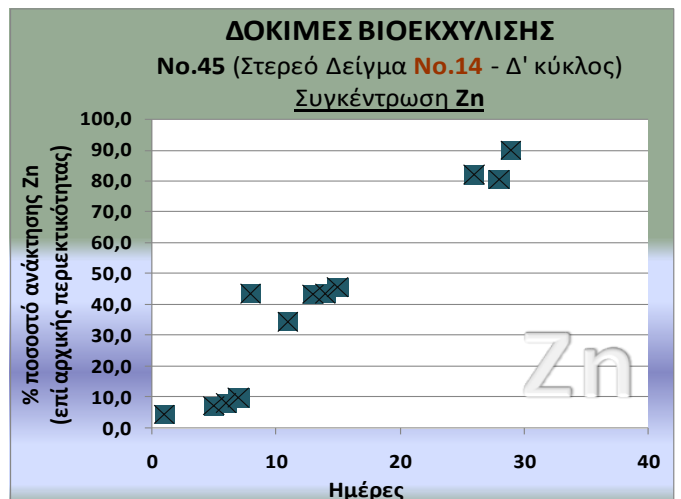
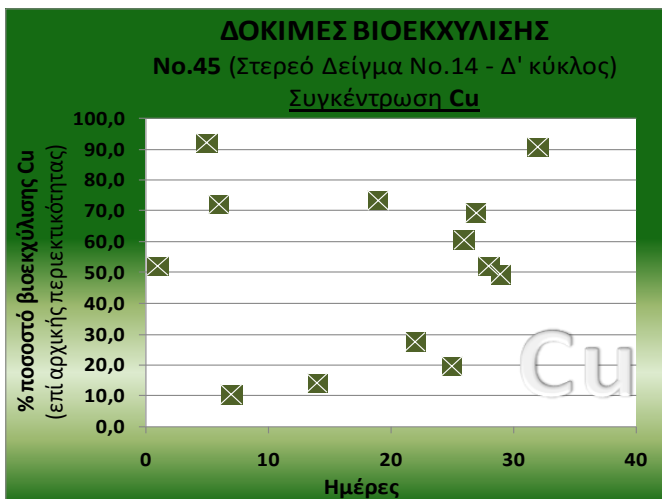
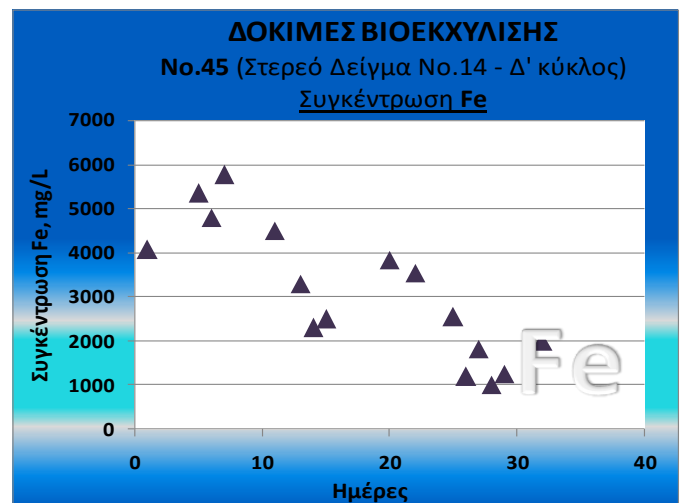
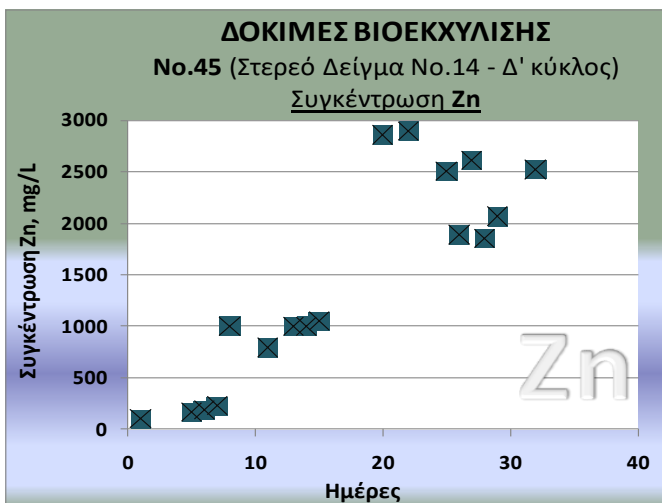
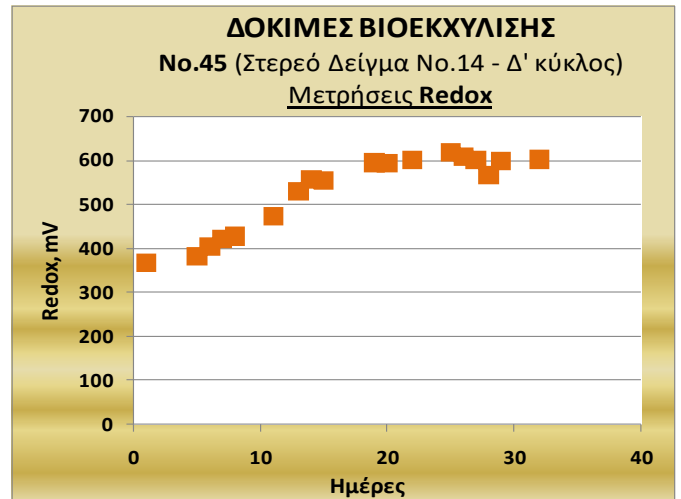
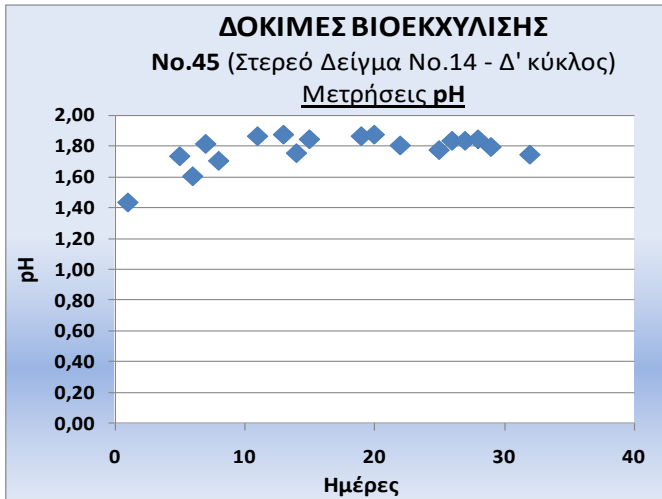




**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.14**  
**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 5%**  
**Α' Καλλιέργεια – Γ' Μεταφορά**



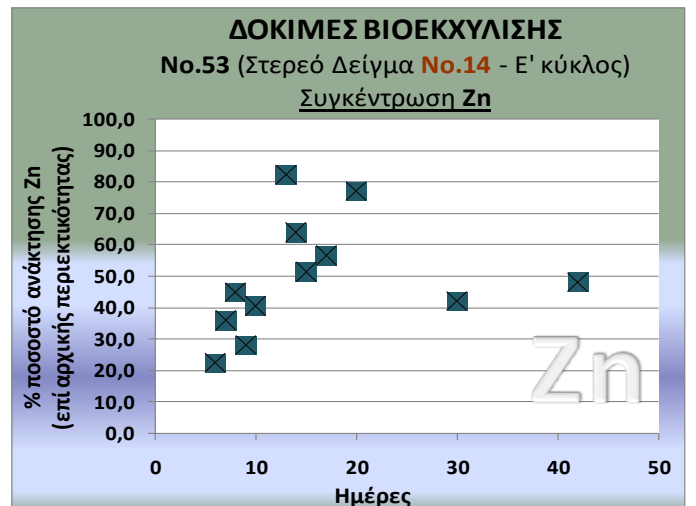
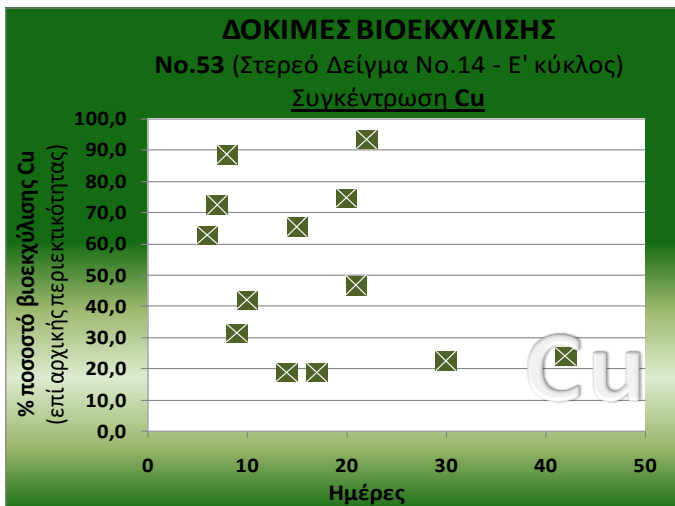
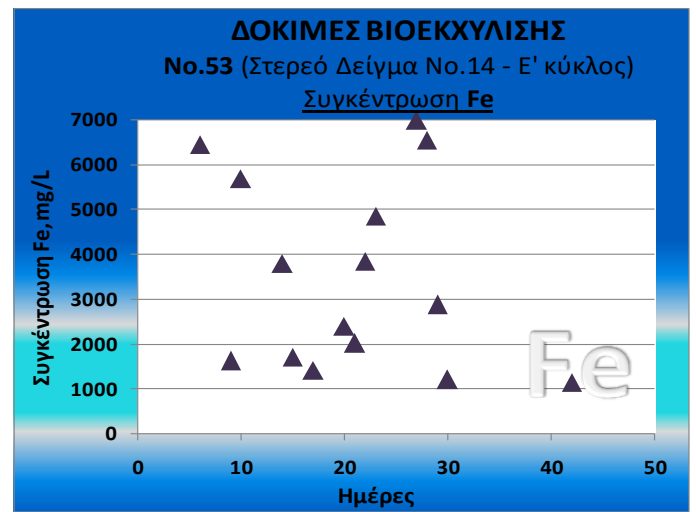
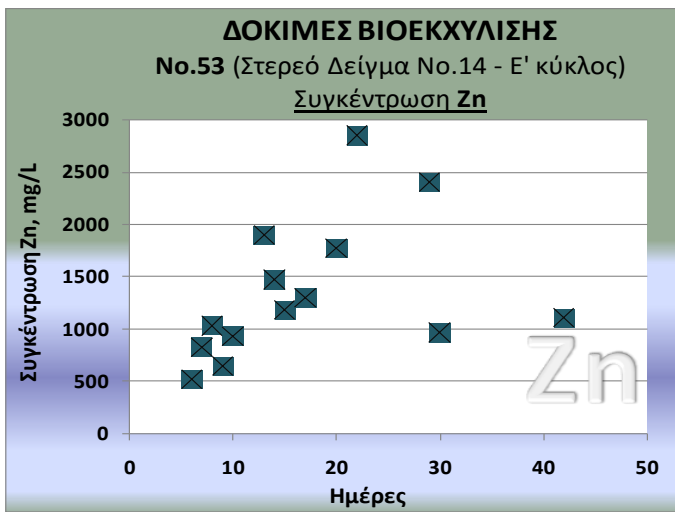
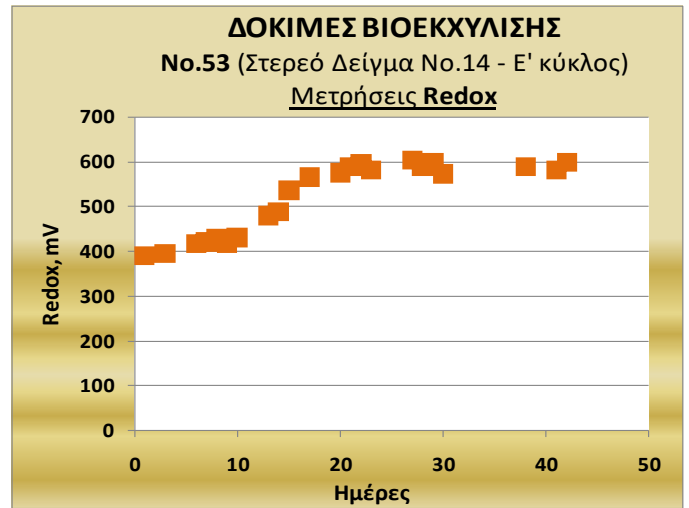
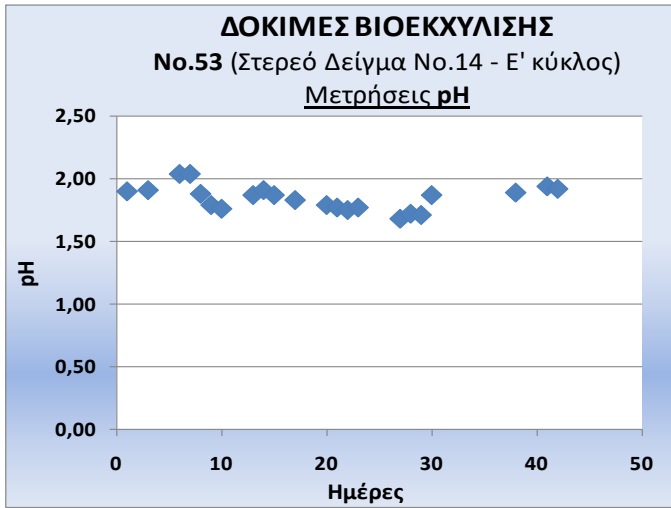
**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.14**  
**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 5%**  
**Α' Καλλιέργεια - Δ' Μεταφορά**



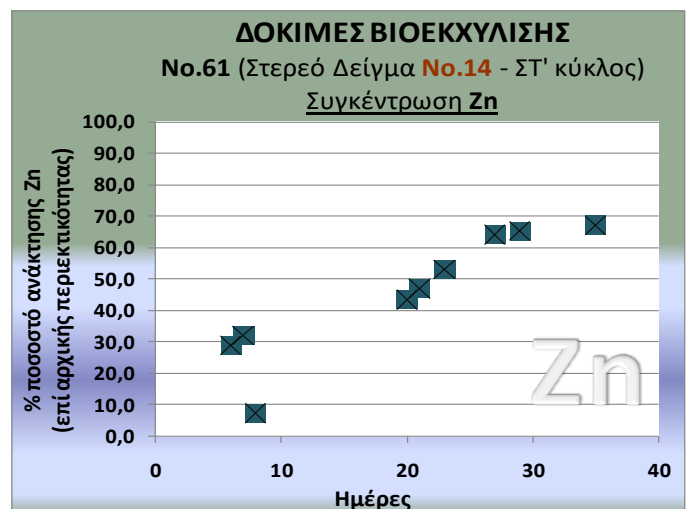
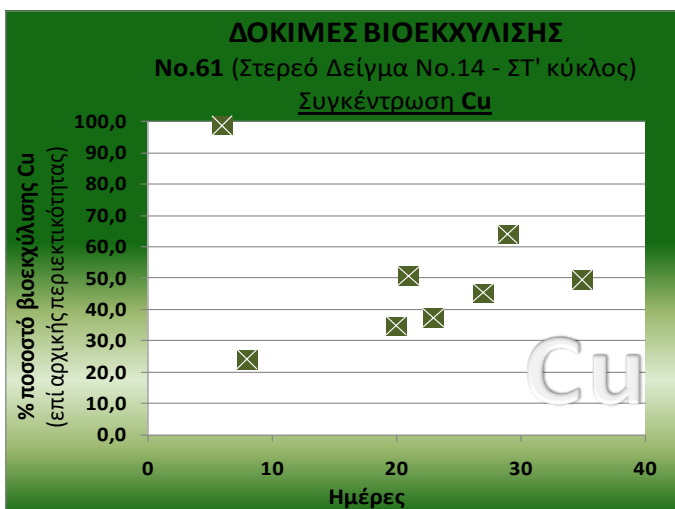
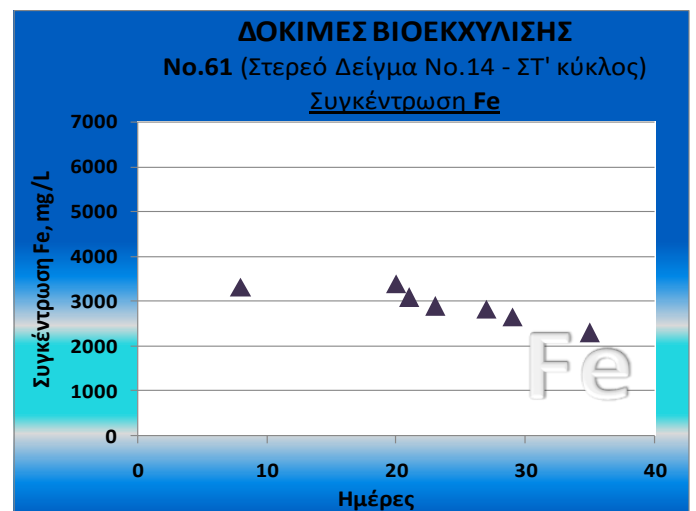
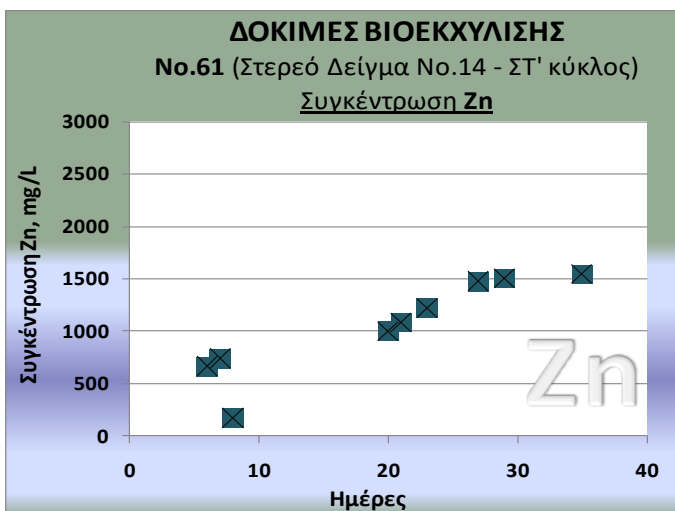
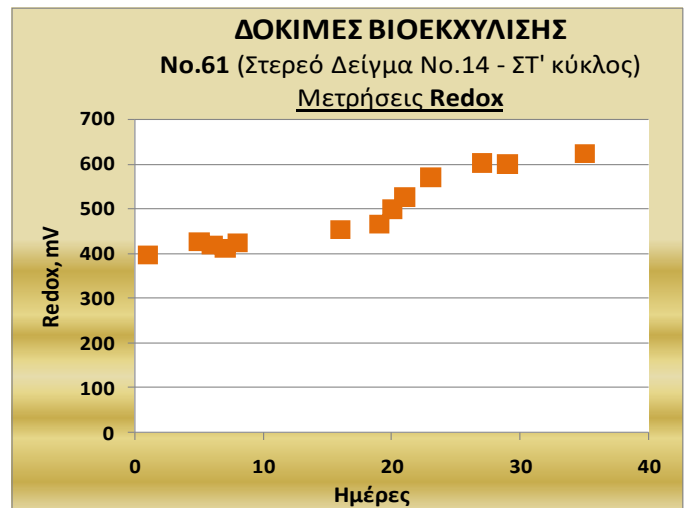
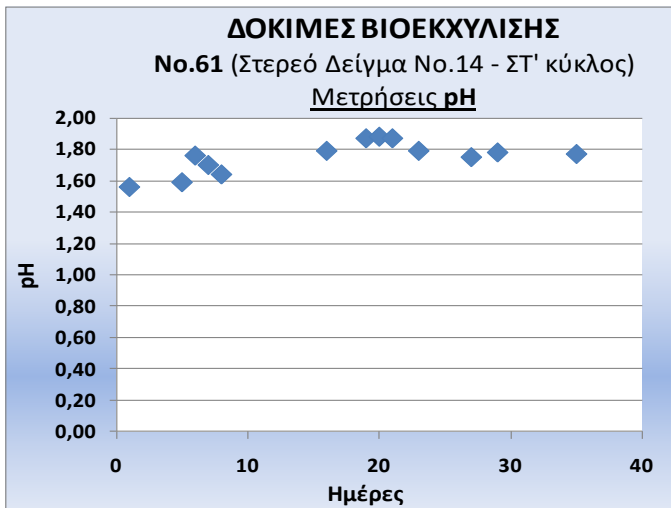
**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.14**

**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 5%**

**A' Καλλιέργεια - E' Μεταφορά**



**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.14**  
**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 5%**  
**Α' Καλλιέργεια - ΣΤ' Μεταφορά**



**ΣΤΕΡΕΟ ΔΕΙΓΜΑ No.14**  
**ΠΥΚΝΟΤΗΤΑ ΠΟΛΦΟΥ: 5%**  
**ΧΩΡΙΣ ΒΑΚΤΗΡΙΑ**

