

Approved by Director: Dr. Guy Vallaro

Title: Preventive maintenance for optimizing the performance for a SEM/EDS

A. Purpose: To ensure that the instruments are performing “in control”.

B. Responsibility: GSR analyst or designee

C. Procedure:

1. Routine maintenance
 - a. Liquid nitrogen will be periodically ordered from a qualified supplier, and liquid nitrogen filling will be executed twice a week.
 - b. A change of filament and re-alignment will be performed following the vendor’s instruction manual for the Hitachi S-3700N.
 - c. A copper performance check sample will be run after any type of maintenance.
2. Service contracts: Both instruments are covered under service contracts. Scheduled preventive maintenance and their service reports will be performed and signed off by the vendors’ qualified engineers.

D. References

Hitachi S-3700N user’s manual

EDAX Genesis user’s manual