

ABCA2 Maintenance Report

Job Number:	SE0754		
Customer:	Minerva Foundation Institute for Medical Research, Hesinki,Finland		
Instrument Serial #	20602/2023/1309	Gas Box Serial #	60101/1-2023/1309
VERSA Serial #	60101/1-2023/1309	Software Version	V800.10.0.17442
Contact:	Sirku Jantti (Sirku.jantti@helsinki.fi)		
Date of Visit:	11-13.05.2026	Days:	3
Engineer:	Robert Kamený		

Pre Maintenance Checks

Initial Tuning Parameters: N/A

HT	IR
Focus	eV
HP	Trap
Emission	
Vacuum	

Initial Performance Evaluation: N/A

Peak Shape	Sheet Number
Stability	Sheet Number
Ref Gas Precision	Sheet Number
Breath Precision	Sheet Number
Sensitivity	Sheet Number
5% in tube Precision	Sheet Number
Linearity	Sheet Number

Maintenance Checklist

Filament Change	Initial: RK	Date: 11.5.26
Oil Change	Initial: RK	Date: 11.5.26
Filament Condition	Initial: RK	Date: 11.5.26
Tune Optimisation	Initial: RK	Date: 13.5.26
Replace Syringe O Rings	Initial: RK	Date: 11.5.26
Gas Flow Check and Optimisation	Initial: RK	Date: 12.5.26
Magnet Position Optimisation (If Applicable)	Initial: RK	Date: 13.5.26
System Leak Check	Initial: RK	Date: 12.5.26

Final Performance Evaluation

HT: 2555

IR: (-5.0)

Focus: 90

eV: (-86)

HP: 10

Trap: 200

Emission: 542

Vacuum: 4.1e-06mBar

Final Performance Evaluation

Peak Shape: pass

Sheet Number:1

Stability: pass

Sheet Number:2

Ref Gas Precision: 0.01%std

Sheet Number:3

Breath Precision: 0.06%std

Sheet Number:4

Sensitivity: 1.73e-08

Sheet Number:5

5% in tube Precision: 0.02%std

Sheet Number:6

Linearity: 0.08%std

Sheet Number:7

Faults and Issues:

- Unit was subjected to a annual service visit
- Pre- service checks and specs: running specs as required (unable to attempt as unit powered off shortly before Engineers arrival. Agreed with customer to leave source powered off to speed up the service
- Service actions: filament, rotary pump oil and syringe o rings kit replaced
- Good pumping, unit achieved 1.2 e-07mBar in less than 3 hrs
- Filament conditioned at around 1.0 e-07mBar (left pumping overnight)
- Vacuum after pumping overnight 2e-08mBar
- Post service specs : satisfactory (see post maintenance evaluation)
- Adjusted crimp V 13 to improve the tuning gas delivery
- Additional refresher demo/training as required day 3
- Unit released back to service Day 3 pm

Follow Up:

Engineer:	Robert Kamený	Date:	20.5.2026
Signed:			
Customer:	SIRKKU JÄNTTI	Date:	25.5.2026
Signed:			