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ABCA2 Maintenance Report

Job Number:	SE0777		
Customer:	Machtens Medical Centre,Brussels, Belgium		
Instrument Serial #	20602/2022/1289	Gas Box Serial #	60101/1-2022/1289
Autosampler#	60101/1-2022/1289	Software Version	V800.7.0.20196
Contact:	Dr. Alain Gemayel		
Date of Visit:	08-09.10.2026	Days:	2
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

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Maintenance Checklist		
Filament Change	Initial: n/a	Date:
Oil Change	Initial: n/a	Date:
Filament Condition	Initial: n/a	Date:
Tune Optimisation	Initial: n/a	Date:
Replace Syringe O Rings	Initial: n/a	Date:
Gas Flow Check and Optimisation	Initial: n/a	Date:
Magnet Position Optimisation (If Applicable)	Initial: n/a	Date:
System Leak Check	Initial: n/a	Date:

Final Performance Evaluation: n/a

HT	IR
Focus	eV
HP	Trap
Emission	
Vacuum	

Final 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

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Faults and Issues:

- Customer reported issue with the source limiting, Requested prompt visit
- Remote dial in confirmed issue with the filament indicating continuous red LED +LIMIT
- Suspected issue : short circuit on the ion source
- Findings as follows whilst on site
- Gas supply: sufficient
- Gas pressure: 20 psi set (gas box)
- Gas flows: helium 20 ml/min, Co2 V13 pig tail 2.5ml/min
- Positive pressure change suggests a presence of the ref gas inside the source
- Correct function of the valves: verified
- Magnet position: verified
- Ion source continuity check: verified (filament intact)
- Collector continuity check: verified
- Restarted electronics: zero improvement
- Sourced out another system controller from the ABCA in Synlab (Charleroi)
- Replacement system controller works well, system released back to Service
- Att. VERSA needle/ Z Arm keeps getting jammed usually in second half of the sample table on random intervals (recommended thorough monitoring in order to find out any patterns that may be associated with the Z arm getting jammed in various positions
- Final diagnosis: faulty system controller (needs to be shipped to Sercon)
- Att. customer advised possible de-commissioning of the ABCA system in Synlab in Charleroi and moving it over to Medical Centre in Brussels (recommended 3 day visit, customer to request further information by contacting service@sercongroup.com)

Follow Up:

- System controller shipping back to Sercon (contact service@sercongroup.com)
- VERSA Z arm malfunction (recommended thorough monitoring)
- ABCA, Synlab Charleroi (decommissioning and move, recommended dedicated 3 day visit, request a quote from sales@sercongroup.com)

Engineer:	Robert Kamený	Date:	22.10.2026
Signed:	Kamený R		
Customer:	gCmayel (Respira)	Date:	29/10/26

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Signed:	