



# FLASH TEST REPORT

## Execution

State of charge **15.19 %**  
Date 20/09/2024 15:09:45  
Executed by Carla AB

## Vehicle

Brand Tesla  
Model Model S  
VIN 5YJSA7E4XJF270771  
Mileage 82,435 km

## Analysis Result

# AVILOO SCORE

**94**  
/ 100

### High voltage battery usage and history

Analysis of charging & driving behavior

**66** / 70

### High voltage battery performance

Analysis of cell voltages and module temperatures.

**28** / 30

### High voltage battery control unit

Check of signals and calculations of the battery management control unit.



### Vehicle communication interface

Check of communication via the diagnostic interface.



Dr. Marcus Berger  
CEO and Partner

DI Wolfgang Berger MBA  
CSO and Founder

DI Nikolaus Mayerhofer  
CTO and Founder



# EXPLANATION OF THE BATTERY FLASH TEST

## ANALYSIS METHOD

The analysis performed is a combined result of: The communication quality between the diagnostic hardware AVILOO Box and the on-board diagnostic interface of the vehicle. The live battery data and data that indicates the previous use of the high voltage battery, which is made available to the AVILOO Box by the battery management system during the measurement. The plausibility check and classification of the battery condition using the collected values and a comparison with the AVILOO Battery Cloud using Big Data algorithms.

## FLASH TEST EXECUTION PROTOCOL

- 15:09:42 AVILOO Box connected.
- ✓ FLASH Test started.
- ✓ Starting data acquisition.
- ✓ Vehicle detected.
- ✓ Finished data acquisition.
- ✓ Analyzing data.
- ✓ Analysis completed.

## DETAILED RESULTS OF PERFORMED CHECKS

### Vehicle Information

VIN	5YJSA7E4XJF270771
Date	20/09/2024 15:09:45
Mileage	82,435 km

### Measurements High Voltage System

Battery temperature	19.51 °C
Maximum cell temperature deviation	1.85 °C
Pack voltage	336.17 V
Maximum cell voltage deviation	5.59 mV
Peak current during check	-5.38 A

