



## CASE STUDY

# Emissions Testing Helps Manufacturer Verify Vape Hardware Safety & Performance

Accurate Analysis for Carbonyls & Nicotine Level Helps Safeguard Brand

An Eastern Canada-based manufacturer of cannabis and nicotine delivery hardware, including cartridges, pods, and heating elements, faced challenges in ensuring product safety and performance. Specifically, they needed to confirm that metals were not leaching from the hardware into the vapour inhaled by consumers. Additionally, they sought to verify that the nicotine is physically transferred into the vapour with an appropriate delivery efficiency.

Traditional laboratories often struggle with the complex tasks of generating vapour, capturing samples, and conducting accurate analysis. Labstat's specialized vapour and emissions testing services filled this gap, providing critical data on HPHC-related analysis. This data formed a robust foundation for assessing both the safety and operational integrity of the manufacturer's hardware.

The manufacturer highly valued Labstat's scientific expertise, which offered informed advice and consultation throughout the testing process. This comprehensive approach empowered the manufacturer with the essential data to verify product safety and performance, thereby solidifying their position as a North American leader in vape hardware production.

### CHALLENGE

Obtain accurate testing for metal leaching from hardware to the liquids and further to the vapour for e-cigarette and cannabis oil devices.

### DIFFICULTIES

Technical challenges in creating and capturing vapour for analysis.

### SOLUTION

Labstat's vapour and emissions testing provided accurate results that support product safety and quality standards.

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