

**RESULTS OF CONFORMANCE TESTING OF  
SCREENING DEVICES  
TO MEASURE ALCOHOL IN BODILY FLUIDS**

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**INTERIM REPORT**

**PREPARED FOR**

**U. S. DEPARTMENT OF TRANSPORTATION  
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION  
OFFICE OF IMPAIRED DRIVING and OCCUPANT PROTECTION**

**and**

**OFFICE OF RESEARCH and TECHNOLOGY**

**WASHINGTON, D. C. 20590**

Under National Highway Traffic Safety Administration Model Specifications for Screening Devices To Measure Alcohol in Bodily Fluids (59 FR 39382), Alcohol Screening Devices are devices which measure alcohol present in fluid from a human subject to indicate whether or not alcohol is present in the blood of that subject at or above a concentration of 0.02 BAC (grams alcohol per 100 ml blood). Any bodily fluid may be used for this determination, provided that a demonstrated scientific method for converting the measurement into BAC is available.

One breath test device was submitted to the U.S. Department of Transportation Volpe National Transportation Systems Center for evaluation during this reporting period:

<u>Device</u>	<u>Manufacturer</u>
AlcoMate Premium (AL 7000)	AK Solutions, LLC

The AK Solutions, LLC AlcoMate Premium (also known as the AL 7000) is a handheld screening device that utilizes replaceable semiconductor detectors. Instead of re-calibrating the device, a new calibrated detector can be installed. Four detectors were included with the device (including the one that was already installed.) A full evaluation was done on each detector. No difference was seen in the four detectors. The device has a three digit LCD display and uses a disposable mouthpiece for breath input. This screener is intended for personal use, but could be used by police or workplace testing personnel.

The Model Specifications are appended.