



PHIL BREDESEN
GOVERNOR

TENNESSEE BUREAU OF INVESTIGATION

901 R.S. Gass Boulevard
Nashville, Tennessee 37216-2639
(615) 744-4000
Facsimile (615) 744-4500
TDD (615) 744-4001



LARRY WALLACE
DIRECTOR

O.K.

RECEIVED

SEP 18 2003

DIRECTOR'S OFFICE
TN. BUREAU INVEST.

MEMORANDUM

TO: Larry Wallace, Director

FROM: Mark Gwyn, Assistant Director *MG*

DATE: September 18, 2003

SUBJECT: Evaluation of the Intoximeter EC/IR II, CMI Intoxilyzer 8000, and the Dräger Alcotest 7110 Breath Alcohol Instruments

The Breath Alcohol analyzers (the Intoximeter EC/IR II, CMI Intoxilyzer 8000, and the Dräger Alcotest 7110) were evaluated for accuracy, precision, and performance between the dates of August 20, 2003, and September 5, 2003. Accuracy and precision were tested using numerous standard wet-bath solutions and dry gas standards. Solutions containing various interferants were also tested. Field trials of each instrument were conducted by placing each instrument in a vehicle while using DC current as the power source.

Both the Intoximeter EC/IR II and Dräger Alcotest 7110 yielded satisfactory results on all accuracy, precision, and performance tests.

The CMI Intoxilyzer 8000 failed to yield satisfactory results on all accuracy, precision, and performance tests.

RECOMMENDATION: It is recommended that the Intoximeter EC/IR II and the Dräger Alcotest 7110 Breath Alcohol instruments be approved for use in the State of Tennessee's Breath Alcohol Program.

At this time, the CMI Intoxilyzer 8000 is not recommended for use.

