Missouri State Highway Patrol

Calibration Certification for the

RepCo Marketing 3402C Simulator

The individual wet-bath simulator listed herein has been verified operating within specified parameters, in accordance with the MoDHSS State Public Health Laboratory Breath Alcohol Program's "Testing Requirements for the Recalibration of Simulators".

Simulator Inventory Number: 118158 **Simulator Serial Number:** 1101

Initial Low Temperature Reading: N/A

Initial High Temperature Reading: N/A

Data marked N/A at left indicates the simulator required no heater temperature adjustments. Refer to final readings.

Final Low Temperature Reading: +33.941℃

Final High Temperature Reading: +33.983℃ **Simulator Thermometer Reading:** +33.995℃

Temperature Variance: 0.042℃ **Correction (Bias):** -0.032℃

Note: A combined measurment uncertainty of ±0.04℃ applies to final readings.

Thermal validation was performed using 500mL of aqueous solution and allowed to stabilize to a target operating temperature of +34.00 degrees Celsius, ±0.2 degree Celsius. The instrument used to confirm thermal performance has been calibrated against standards traceable to the National Institute of Standards and Technology (NIST), as indicated below.

NIST Traceable Thermometer: Ertco-Eutechnics 4400 Digital Thermometer

Serial Number: 306168

Calibrated By: Alpha Technics, 17151 Gillette Avenue, Irvine, CA 92614-5602

Certification Number: 306168011113

Certification Date: 01/11/2013

Expires: 12/11/2013

Other Control Data

AC Line Voltage: 120.7 VAC

Ambient Room Temp: +22.8℃

Certification Performed at: GHQ Radio Shop

Certification Date: 11/18/2013

Certification Number: 415963052

Expires: 11/18/2014

Type II/Technician: Chief Tech. D. D. Carver, C41