



MISSOURI DEPARTMENT OF HEALTH AND SENIOR SERVICES  
 STATE PUBLIC HEALTH LABORATORY  
**ALCO-SENSOR IV WITH PRINTER MAINTENANCE REPORT**

REPORT #7

Complete this report in duplicate at the time of the regular monthly preventative maintenance check, and whenever instrument is repaired. Send copy to Department of Health and Senior Services; retain original in department file.

ALCO SENSOR IV SN 03791	NAME OF AGENCY Hazelwood Police Department	DATE OF INSPECTION 12/11/2024
LOCATION OF INSTRUMENT (STREET AND CITY) 415 Elm Grove Ln, Hazelwood, MO 63042		TIME OF INSPECTION 3:07 pm

**CHECKLIST:** Place a mark in the box by each item if found to be satisfactory or if operating within established limits. (Write in observed values where determined.) Unmarked items must be corrected before using instrument.

- DIGITAL READOUT (ALL ELEMENTS OPERATIONAL)
- TEMPERATURE OF ALCO SENSOR (10°C - 40°C)
- PRINTER WORKING PROPERLY
- TIME AND DATE DISPLAYING PROPERLY

**BREATH ALCOHOL ACCURACY STANDARDS**

- SIMULATOR SOLUTION  COMPRESSED ETHANOL-GAS MIXTURE
- STANDARD SUPPLIER Guth Laboratories LOT # 23390 EXP. DATE 10/17/2025
- SIMULATOR TEMPERATURE (34°C ± 0.2°C) 34.01 SIM. SN MP6029 SIM. NIST EXP DATE 08/02/2025
- CALIBRATION CHECK – (ONLY ONE STANDARD IS TO BE USED PER MAINTENANCE REPORT)  
 Run three tests using a standard solution. All three tests must be within ±5% of the standard value and must have a spread of .005 or less. Check the box corresponding to the standard solution being used. (PRINTOUT ATTACHED)
  - 0.100% STANDARD - MUST READ BETWEEN 0.095% and 0.105% INCLUSIVE
  - 0.080% STANDARD - MUST READ BETWEEN 0.076% and 0.084% INCLUSIVE
  - 0.040% STANDARD - MUST READ BETWEEN 0.038% and 0.042% INCLUSIVE

TEST 1 $\blacktriangleleft$ .098	TEST 2 $\blacktriangleleft$ .100	TEST 3 $\blacktriangleleft$ .100
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- RFI DETECTOR OPERATING

**INDICATE THE NUMBER OF BREATH TESTS IN THE FOLLOWING RANGES SINCE THE LAST MAINTENANCE REPORT: (DO NOT INCLUDE SELF-ADMINISTERED TESTS)**

REFUSALS	(0-.04)	(.05-.09)	(.10-.14)	(.15-.19)	(OVER .19)
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List any new parts and describe any alteration or modification that was made to restore the instrument to operate satisfactorily and within established limits (use other side if necessary).

BA Maint December 2024  
 Simulator Bottle #1361

**INSPECTING OFFICER**

SIGNATURE <i>Shane J. Olmsted</i> 504	PRINT NAME Shane J. Olmsted
TYPE II PERMIT NUMBER/EXPIRATION DATE 230237 / 10/31/2025	TELEPHONE NUMBER (314) 838-5000

**Return completed report to the:** Breath Alcohol Program, MO Department of Health and Senior Services, Southeast District Office by mail, fax, or email.

AS IV Serial no: 030791  
Version no: 532B

TEST RECORD 00076 s/  
Temp Date Time 210L

Air Blank: 12/11/24 15:37 .000  
Calibration Check: 19 12/11/24 15:37 .098

Subject Name  
test 1  
Subject I.D.  
Shane Olmsted  
Operator Name, I.D.  
230237  
Location  
HPD BAT Van

AS IV Serial no: 030791  
Version no: 532B

TEST RECORD 00077 s/  
Temp Date Time 210L

Air Blank: 12/11/24 15:40 .000  
Calibration Check: 20 12/11/24 15:40 .100

Subject Name  
Test 2  
Subject I.D.  
Shane Olmsted  
Operator Name, I.D.  
230237  
Location  
HPD BAT Van

AS IV Serial no: 030791  
Version no: 532B

TEST RECORD 00078 s/  
Temp Date Time 210L

Air Blank: 12/11/24 15:41 .000  
Calibration Check: 21 12/11/24 15:41 .100

Subject Name  
Test 3  
Subject I.D.  
Shane Olmsted  
Operator Name, I.D.  
230237  
Location  
HPD BAT Van

AS IV Serial no: 030791  
Version no: 532B

TEST RECORD 00079 s/  
Temp Date Time 210L

VOID: RFI 12 12/11/24 15:43

Subject Name  
RFI Test  
Subject I.D.  
Shane Olmsted  
Operator Name, I.D.  
230237  
Location  
HPD BAT Van

AS IV Serial no: 030791  
Version no: 532B

TEST RECORD 00080 s/  
Temp Date Time 210L

Air Blank: 12/11/24 15:44 .000  
Subject Test: Auto 23 12/11/24 15:44 .000

Subject Name  
Self Test  
Subject I.D.  
Shane Olmsted  
Operator Name, I.D.  
230237  
Location  
HPD BAT Van



**GUTH LABORATORIES, INC.**

590 NORTH 67th STREET • HARRISBURG, PA 17111-4511 • TELEPHONE: 717-564-5470

## CERTIFICATE OF ANALYSIS

Certified Alcohol Reference Solution for Simulator

Random Samples of Lot Number **23390** of Alcohol Reference Solution for Simulator were analyzed by gas chromatography on **October 18, 2023**, using a Perkin Elmer Gas Chromatograph Autosystem XL S/N: 610N9030209, and found to contain **0.1207%** (w/vol) ethyl alcohol. The expiration date for this lot number is **October 17, 2025** at 11:59 PM.

When used in a calibrated Simulator, operating at  $34^{\circ}\text{C} \pm .2^{\circ}\text{C}$ , this solution will give a breath alcohol analysis instrument reading of **0.100 g/210L  $\pm$  3%**.

The alcohol and water used in this solution were free of test interfering substances.

Ted L. Pauley, President  
GUTH LABORATORIES, INC.

*NIST Traceability:*

*Testing was conducted using Cerilliant Reference Standard lot number FN03072301 whose values are traceable to NIST.*

*All balances are calibrated annually by an outside agency using NIST traceable weights. Calibration verification is done prior to each use utilizing NIST traceable weights.*





Paula Nickelson
Acting Director

Michael L. Parson
Governor

SIMULATOR CERTIFICATION REPORT

SIMULATOR INFORMATION

Simulator Serial Number: MP6029 Manufacturer: Guth
Model Number: 12V500
Agency: HAZELWOOD PD
Agency Address: 415 ELM GROVE LANE, HAZELWOOD, MO 63042

NIST THERMOMETER INFORMATION

Serial Number: 17KMM00690 Bias: 0.00
Uncertainty: 0.02
Date of Certification: 10/27/2023 Date of Expiration: 10/27/2024

ENVIRONMENTAL CONDITIONS

The environmental conditions during testing are within the tolerances of DHSS BAP method 3.

VERIFICATION RESULTS

Table with 3 columns: Simulator Average (34.01), NIST Average (34.01), Combined Uncertainty (.02)

The combined uncertainty is calculated with a k=2 value.

ADJUSTMENT RESULTS

No adjustment was needed.

Date of testing: 8/2/2024
Certification Expiration: 8/2/2025
Simulator testing technician: M. BOND

Notes on Condition: none

Deviation(s) from method: none

DHSS BAP Scientist Approving: BRIANNA MEDRANO

Certification No: MP6029\_822024

X [Signature]

DHSS BAP Scientist Approving