



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

**RECEIVED**  
 By Tracy Crews at 7:46 am, Jan 30, 2024

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 108267	NAME OF AGENCY MISSOURI STATE HIGHWAY PATROL	DATE OF INSPECTION 01/29/2024
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LOCATION OF INSTRUMENT (STREET AND CITY) TROOP A, 504 S.E. BLUE PARKWAY, LEE'S SUMMIT, MO 64063	TIME OF INSPECTION 10:54 am
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**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) 34.00 SIM. SN MP2206 SIM. NIST EXP DATE 11/27/2024

- 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 ← .100	TEST 2 ← .102	TEST 3 ← .101
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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).

TIME UPDATED +2 MINS

**INSPECTING OFFICER**

SIGNATURE 	PRINT NAME MATTHEW J. HANRAHAN
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TYPE II PERMIT NUMBER/EXPIRATION DATE 230075, 04/14/2025	TELEPHONE NUMBER (816) 622-0800
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**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: 108267  
Version no: 532B

TEST RECORD 00375

Temp Date Time 210L  
s/

Air Blank:

01/29/24 10:56 .000

Calibration Check:

21 01/29/24 10:56 .100

Subject Name

TEST #1

Subject I.D.

Operator Name, I.D.

M.J. HARRAHAN #250075

Location

Troop A

LEE'S Summit, W9

AS IV Serial no: 108267  
Version no: 532B

TEST RECORD 00376

Temp Date Time 210L  
s/

Air Blank:

01/29/24 10:59 .000

Calibration Check:

22 01/29/24 10:59 .102

Subject Name

TEST #2

Subject I.D.

Operator Name, I.D.

M.J. HARRAHAN #250075

Location

Troop A

LEE'S Summit, W9

AS IV Serial no: 108267  
Version no: 532B

TEST RECORD 00377

Temp Date Time 210L  
s/

Air Blank:

01/29/24 11:01 .000

Calibration Check:

23 01/29/24 11:01 .101

Subject Name

TEST #3

Subject I.D.

Operator Name, I.D.

M.J. HARRAHAN #250075

Location

Troop A

LEE'S Summit, W9

AS IV Serial no: 108267  
Version no: 532B

TEST RECORD 00378

Temp Date Time 210L  
s/

VOID: RFI

12 01/29/24 11:03

Subject Name

RFI TEST

Subject I.D.

Operator Name, I.D.

M.J. HARRAHAN #250075

Location

Troop A

LEE'S Summit, W9



## 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.*





STATE OF MISSOURI  
DEPARTMENT OF HEALTH AND SENIOR SERVICES  
BREATH ALCOHOL PROGRAM



**PERMIT**  
**TYPE II**  
**MATTHEW HANRAHAN**

is hereby authorized to instruct and supervise operators, train instructors, inspect, calibrate, perform field service and repairs, and operate the following breath analyzer(s):

**ALCO-SENSOR IV WITH PRINTER, INTOX DMT**

for the determination of the alcoholic content of blood from a sample of expired air. Permit issued under the provisions of sections 577.020 through 577.041, RSMo and 306.111 through 306.119 RSMo.

DATE **4/14/2023**

NUMBER **230075**

EXPIRES **4/14/2025**

*Mike Morrison*

DIRECTOR OF STATE PUBLIC HEALTH LABORATORY

*David J. Nielsen*

DIRECTOR OF DEPARTMENT OF HEALTH AND SENIOR SERVICES

**STATE OF MISSOURI**  
**DEPARTMENT OF HEALTH AND SENIOR SERVICES**  
**BREATH ALCOHOL PROGRAM**

**INSTRUMENT OPERATOR CARD**

*The named cardholder is authorized to operate an evidential breath alcohol instrument for the determination of the alcoholic content in breath form of expired air in Missouri.*

Operator **HANRAHAN, MATTHEW**  
Permit No **230075**  
Date Issued **4/14/2023** Date Expires **4/14/2025**

