



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

**RECEIVED**  
By Tracy Crews at 7:56 am, Mar 05, 2025

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 <b>030792</b>	NAME OF AGENCY <b>Missouri State Highway Patrol</b>	DATE OF INSPECTION <b>01/31/2025</b>
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LOCATION OF INSTRUMENT (STREET AND CITY) <b>5268 Flat River Road, Park Hills, MO 63601 (Troop C Service Center)</b>	TIME OF INSPECTION <b>10:40 pm</b>
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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 10/01/2025

SIMULATOR TEMPERATURE (34°C ± 0.2°C) 33.99              SIM. SN MP2460                      SIM. NIST EXP DATE 01/09/2026

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 ➔ .102	TEST 2 ➔ .101	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).

**INSPECTING OFFICER**

SIGNATURE 	PRINT NAME <b>Zachary L. Ricker</b>
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TYPE II PERMIT NUMBER/EXPIRATION DATE <b>230304 12/11/2025</b>	TELEPHONE NUMBER <b>(636) 300-2800</b>
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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.

TEST RECORD 00452

Temp Date Time 210L <sup>g/</sup>

Air Blank:  
01/31/25 22:40 .000  
Calibration Check:  
20 01/31/25 22:40 .102

Subject Name

Test 1

Subject I.D.

Operator Name, I.D.

Z.L.Ricker 230304

Location

Troop C

Service Center

AS IV Serial no: 030792  
Version no: 532B

TEST RECORD 00453

Temp Date Time 210L <sup>g/</sup>

Air Blank:  
01/31/25 22:42 .000  
Calibration Check:  
21 01/31/25 22:42 .101

Subject Name

Test 2

Subject I.D.

Operator Name, I.D.

Z.L.Ricker 230304

Location

Troop C

Service Center

AS IV Serial no: 030792  
Version no: 532B

TEST RECORD 00454

Temp Date Time 210L <sup>g/</sup>

Air Blank:  
01/31/25 22:44 .000  
Calibration Check:  
21 01/31/25 22:44 .101

Subject Name

Test 3

Subject I.D.

Operator Name, I.D.

Z.L.Ricker 230304

Location

Troop C

Service Center

AS IV Serial no: 030792  
Version no: 532B

TEST RECORD 00455

Temp Date Time 210L <sup>g/</sup>

VOID: RFI  
12 01/31/25 22:45

Subject Name

RFI Test

Subject I.D.

Operator Name, I.D.

Z.L.Ricker 230304

Location

Troop C

Service Center



## 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.*