



H2 Analytics
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Report #: 24120401 (final)

Laboratory Report

Introduction

This report summarizes the testing of a hydrogen water bottle distributed by Yunshen Smart Tech (Shenzhen) Co Ltd, China. The product is a battery-operated portable bottle that produces hydrogen water using electrolysis.

Tests requested: Dissolved H2 for the following cycle times: 5-min, 10-min, & 15-min; Retest 15-min cycle by using two replacement bottles on the original electrolysis base.

Product Description

Name: Supersaturated High Concentration Hydrogen Rich Water Bottle Brand: H2yunshen Model #: H-B-HEX5

The bottle is a battery-operated device that uses electrolysis to produce and infuse hydrogen gas (H2) into the drinking water. It has a single-walled, polycarbonate reservoir with a volume of approximately 230 mL.

Materials & Methods

Water: generic, distilled, pH 6.28±0.25; starting temperature 23.9°C ± 1.5 EC: 2 us/cm
Laboratory elevation: 883 meters (0.90 atm); all measurements adjusted to sea level where applicable.
Gas Chromatograph: SRI 8610C, Torrance, CA; column: Haysep-D 6M; column/oven temp: 60°C; detector: tungsten-rhenium TCD; carrier gas: N2

For each dissolved H2 test, the bottle was filled with distilled water just below the cap threads, the cap was securely tightened, and the power button was pressed either once to start the 5-minute cycle, or twice to start the 10-minute cycle.

Results

Table with 4 columns: Mean dissolved H2, SD, H2 Ingested Dose. Rows include 5-min, 10-min, 15-min, and 15-min (#12) and (#13) tests.

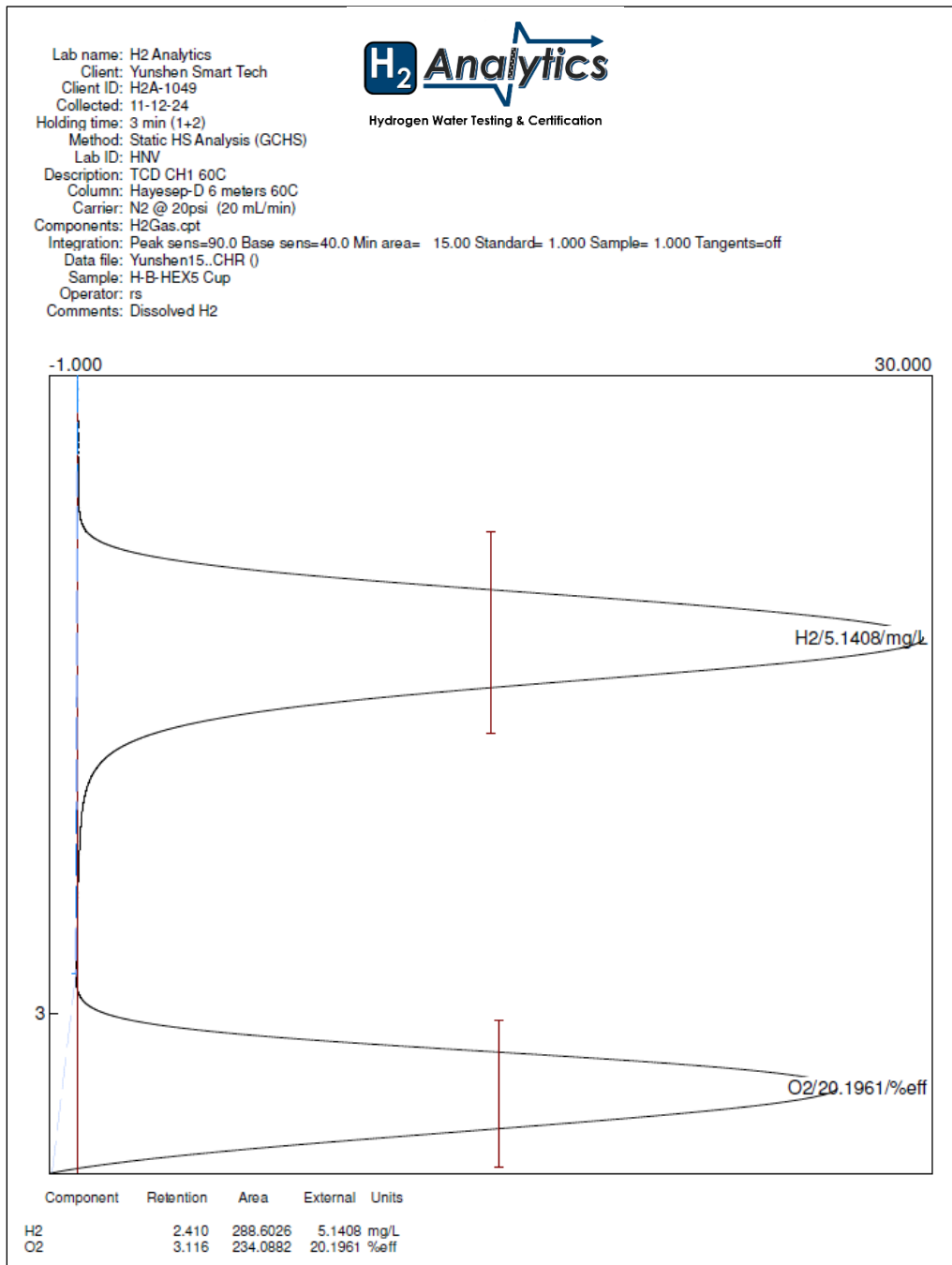


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Approved By: Randy Sharpe

Title: Director of Testing

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Sample Chromatogram (10-minute cycle)