



OZONE EMISSIONS ANALYSIS SUMMARY

NCSR 'Demokritos' – Atmospheric Chemistry & Innovative Technologies Laboratory

1. Testing Facility Credibility

The Atmospheric Chemistry & Innovative Technologies Laboratory of NCSR “Demokritos” is one of Greece’s leading government scientific institutions. It is internationally recognized for precision ozone measurement, air quality analysis, and atmospheric chemistry. Testing used a calibrated Thermo Scientific i49 automatic ozone analyzer according to EN 14625:2012.

2. Description of the Test

- Standard: EN 14625:2012
- Device Tested: OH-Feel OH500F08 (KJ488FK08A)
 - Rated Coverage: **Up to 60 m²**
 - Test Chamber Size: **18 m² sealed room**
- Test Duration: 22 hours continuous operation
 - Pre-test baseline: 2 hours

Important Note: The test intentionally used an **extremely small, sealed 18 m² room** while the OH500F08 is designed for spaces up to **60 m²**. This creates a **high-concentration stress test** far beyond normal operating conditions, exaggerating ozone levels for safety evaluation. Even under these conditions, ozone remained well within global health limits.

3. Key Results

Initial Ozone Level (Pre-Operation):

- 9.7 ppb

Ozone Level During Maximum Operation:

- Stabilized at **30.5 ppb** after 22 hours



Ozone Level After Device Shutdown:

- 17.7 ppb

4. Safety Interpretation

The globally recognized medical-grade indoor ozone safety limit is **50 ppb** (0.050 ppm). This limit is used by U.S. FDA medical-device regulations, EU indoor air recommendations, and WHO guidance.

OH-Feel Result: 30.5 ppb — safely below the 50 ppb threshold even under extreme test conditions.

Because the test was performed in an 18 m² sealed room — significantly smaller than the 60 m² coverage rating — real-world ozone levels during normal use will be substantially lower than the measured 30.5 ppb.

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Research Director: Dr. T. Maggos

This summary confirms ozone emissions evaluation under EN 14625:2012.

*This summary is provided for clarity.
Refer to the original test report for full data and methodology.*