

December 9, 2009

LaboGroup  
4, Rue du Bouloi  
75001 Paris, France

Attn: Jonathan Kamler, Director of R&D

**PROJECT: Testing of Andrea Air Filter and Peace Lilly Plant.  
RTP Labs ID: 09-254 & 334 Combined Reports**

Enclosed with this letter is the report of the testing performed with the Andrea Air Filter received on July 31, 2009 and also testing performed with a Peace Lilly plant only. The formaldehyde testing was conducted according to ASTM D5116 "Small Chamber Tests for Organic Emissions from Indoor Materials/Products" and following Tests 1, 2, 3 and 4 described below.

**Test 1:** Setup 50 liter Teflon chamber for testing of Andrea air filter and obtain plant (Peace Lilly) locally. (1a) Perform blank (no formaldehyde) background test and then introduce formaldehyde at 10-25 ppmv without the Andrea air filter. The formaldehyde concentration was monitored over 23 hrs to demonstrate the chamber's profile. (1b) The Andrea air filter was tested without the plant in the chamber and formaldehyde (10-25 ppmv) was introduced and monitored over 6 hrs. (1c) The Andrea air filter with the Peace Lilly plant was then tested with the air filter fan on maximum flow (300 L/min), and formaldehyde 10-25 ppmv was introduced and the concentration monitored over 1.5 hrs. The test results are presented as formaldehyde (ppmv) concentrations in the chamber vs. time.

**Test 2:** The Andrea air filter was divided into separate inlet and outlet chambers. The Andrea air filter contained the plant and approximately 35 ppmv formaldehyde was dynamically introduced into the air inlet side, the air filter fan started, and both inlet and outlet sides monitored over several hours. The test results are presented as formaldehyde (ppmv) in the inlet and outlet sides vs. time.

**Test 3:** The Peace Lilly plant was tested without the Andrea air filter in a single 50 liter chamber. Approximately 10-25 ppmv of formaldehyde was introduced at a flow of 300 L/min flow through the chamber. The test results are presented as formaldehyde (ppmv) concentrations in the chamber vs. time.

**Test 4 (09-339):** The Peace Lilly plant was tested without the Andrea air filter in a 160 liter chamber and both inlet and outlet sides monitored over 1.5 hours. Approximately 10-25 ppmv of formaldehyde was introduced at a flow of 300 L/min flow through the chamber. The test results are presented as formaldehyde (ppmv) in the inlet and outlet sides vs. time.

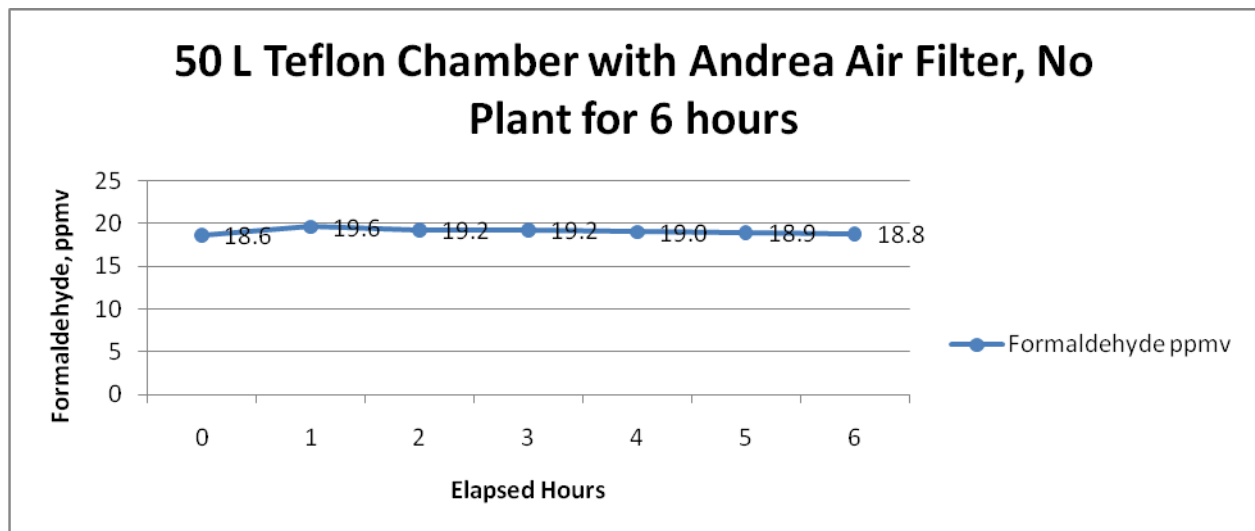
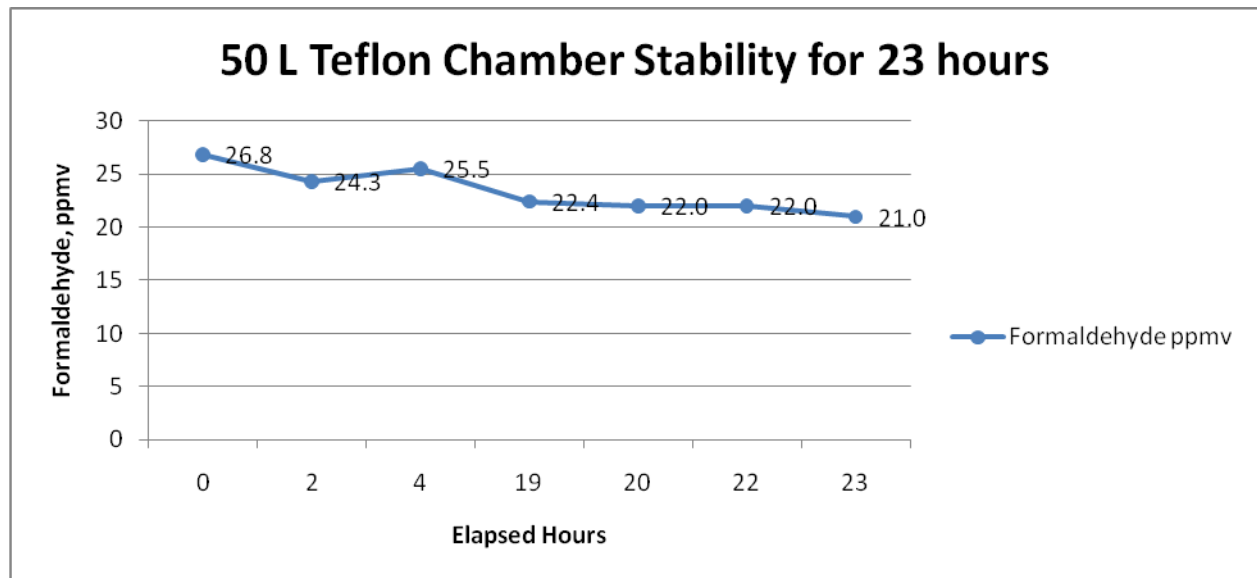
If you have any questions, please give me a call at (919) 510-0228.

Sincerely,

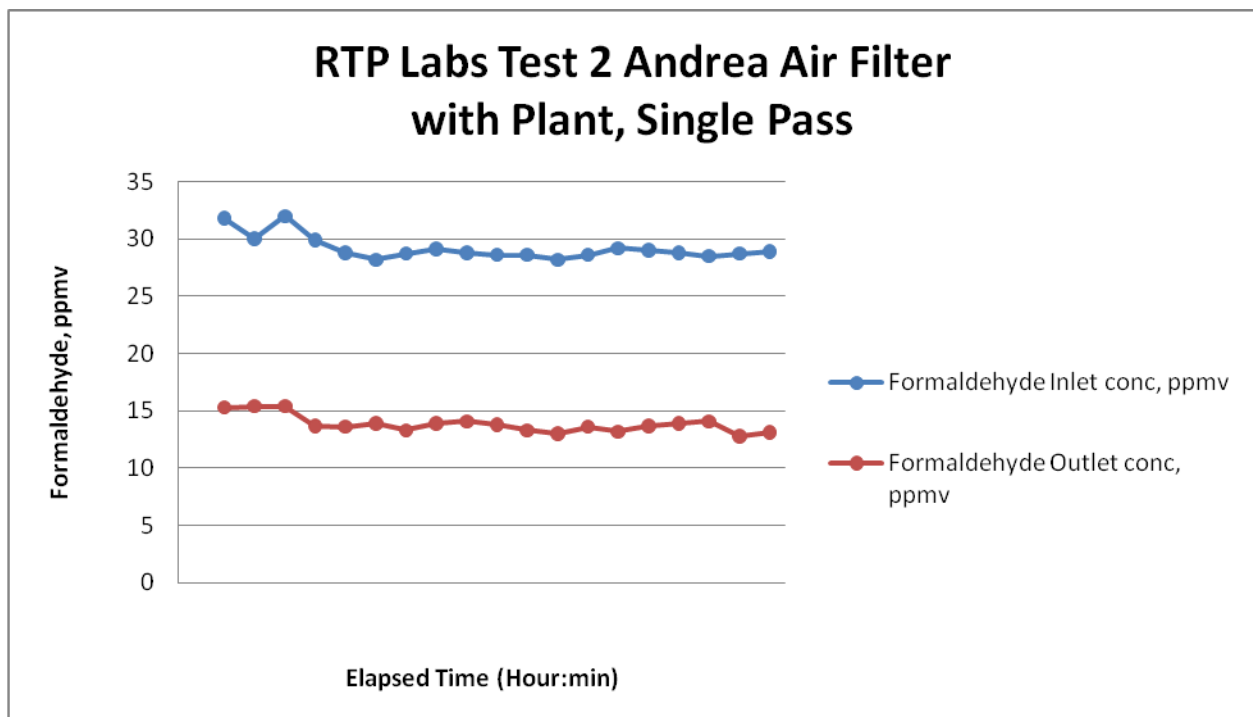
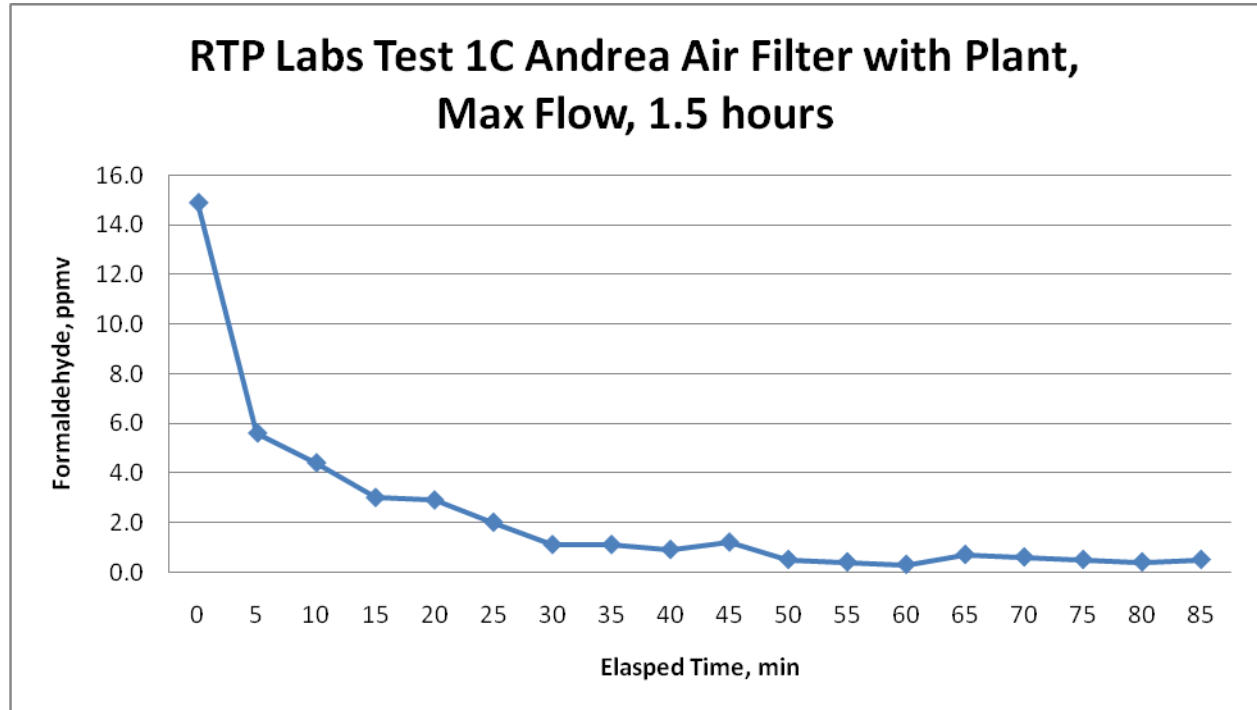
A handwritten signature in blue ink that reads "Alston Sykes".

Alston Sykes, Principal Chemist  
Attachments: Summary Plots.

## Summary of Test Results



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