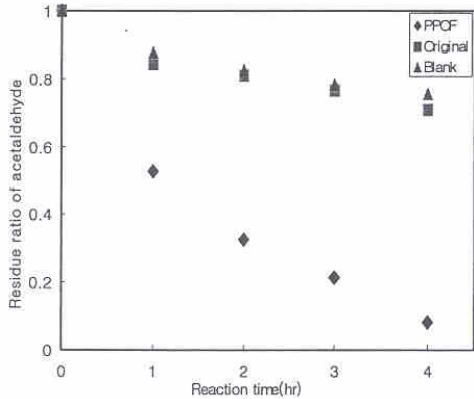
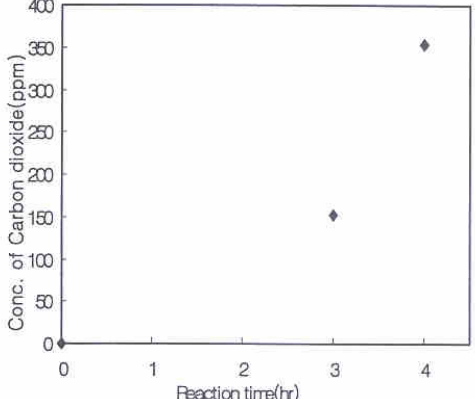
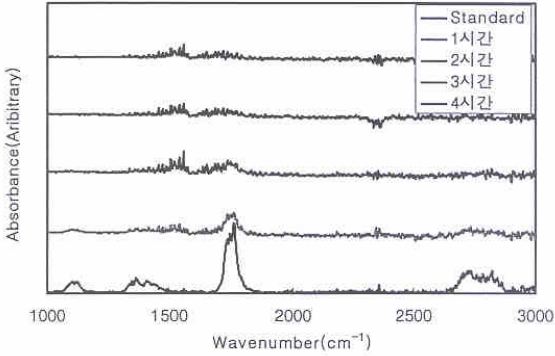


Test result sheet

Subject	The BLACK HOLE Mosquito control & air cleaning Test (Client of Bio-Trap)
Date	27.February.2002
Target Spec.	Organic analysis reaction of PPOF module
Summary	<p>▣ Test condition (Black Hole in PPOF unit sticking)</p> <p>Photo catalysis: P-25 (5 wt %) chemical reactor: 10ℓ Analysis object: Acetaldehyde (CH₃CHO, 1200ppm) Light source: UV BLB4W,2EA Measurement: FT-IR(BOMEM 100) POF: Ø=1mm, 500EA, L=7cm</p> <p>▣ Test result</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>Fig. 1. Photocatalytic degradation of Acetaldehyde with reaction time.</p> </div> <div style="text-align: center;">  <p>Fig. 2. Formation of carbon dioxide by Photocatalytic degradation.</p> </div> </div> <div style="text-align: center; margin-top: 20px;">  <p>Fig. 3. FT-IR analysis of photocatalytic degradation of Acetaldehyde</p> </div>
Remark	

▫**Test condition (Black Hole in PPOF unit sticking)**

Photo catalysis: P-25 (5 wt %, Slide Glass)

chemical reactor: 125 ml

Analysis object: Ammonia (NH₃)

Light source: UV-A Lamp(15W,2EA)

Measurement: FT-IR(BOMEM 100)

▫**Test result**

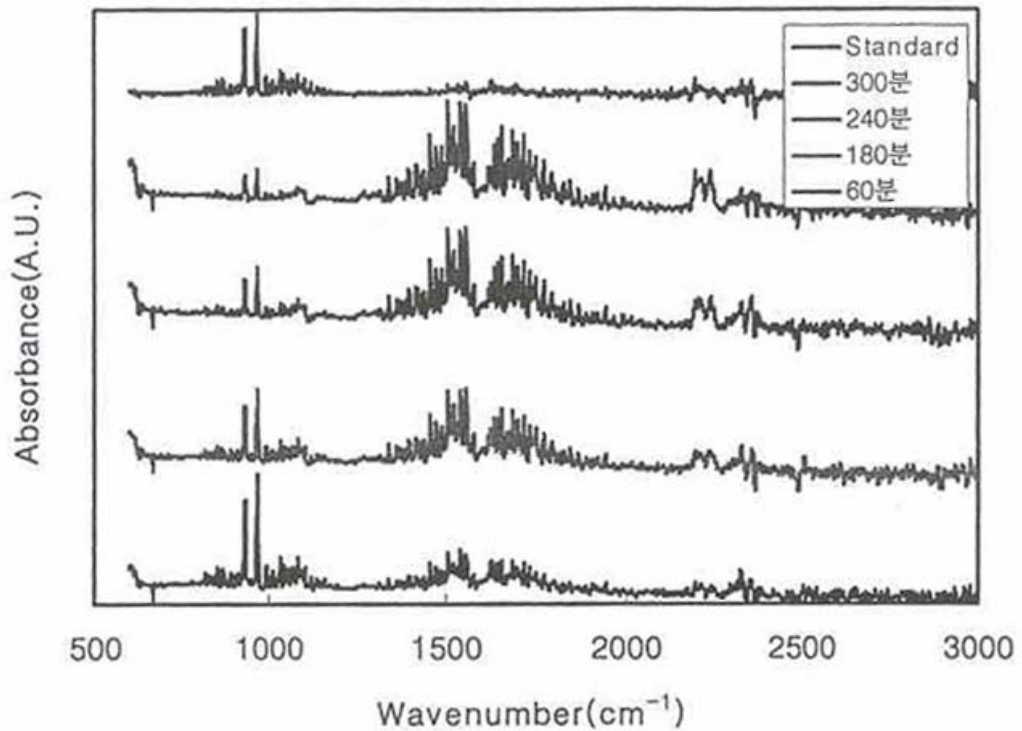


Fig. 4. FT-IR analysis of photocatalytic degradation of ammonia.

CONCLUSION

1. PPOF analysis capacity excellent for Acetaldehyde
2. Circumstance of Ammonia is analysis capacity takes time.
3. Measurement of CO₂ (The minimum)
4. PPOF unit durability analysis capacity excellent

Test by ENVIO Laboratory