

## Acid treatment test results – KH SWCNT WS Gen.2.2

| Treatment                                 | Case 1                  | Case 2                                  | Case 3                                | Case 4                                | Case 5                                |
|---|-------------------------|---|---------------------------------------|---------------------------------------|---------------------------------------|
| Just coating (#9 bar, hair drying)        | R= 900ohm/sq<br>TT= 79% | R= 900ohm/sq<br>TT= 79%                 | R= 900ohm/sq<br>TT= 79%               | R= 900ohm/sq<br>TT= 79%               | R= 900ohm/sq<br>TT= 79%               |
| Acid treatment                            | No treatment            | HNO <sub>3</sub> , PH=2,<br>60°C-10min. | HNO <sub>3</sub> , 4M,<br>60°C-10min. | HNO <sub>3</sub> , 6M,<br>60°C-10min. | HNO <sub>3</sub> , 8M,<br>60°C-10min. |
|   | R= 900ohm/sq<br>TT= 79% | R= 350ohm/sq<br>TT= 79%                 | R= 240ohm/sq<br>TT= 79%               | R= 150ohm/sq<br>TT= 79%               | R= 100ohm/sq<br>TT= 79%               |
| Over coating (#4 bar, 70°C, 3min. Drying) | R=1300ohm/sq<br>TT= 83% | R= 550ohm/sq<br>TT= 83%                 | R= 340ohm/sq<br>TT= 83%               | R= 250ohm/sq<br>TT= 83%               | R= 150ohm/sq<br>TT= 83%               |
| 1day after                                | R= 600ohm/sq<br>TT= 83% | R= 550ohm/sq<br>TT= 83%                 | R= 300ohm/sq<br>TT= 83%               | R= 200ohm/sq<br>TT= 83%               | R= 100ohm/sq<br>TT= 83%               |

\*Solution: KH SWCNT water solution Gen2.2(0.1wt.% solution)

\*Notes: This is an example of acid treatment test result of KH SWCNT TCF.

\*Date : 2013 Jun.