

# Test Report

|             |                                 |
|-------------|---------------------------------|
| Sample Name | IPL Hair Removal Device         |
| The Client  | One Beauty Technology Co., Ltd. |
| Report Date | Feb.20, 2025                    |

Approve:



Intertek Testing Services Shenzhen Ltd. Guangzhou  
Branch

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## **CENTRE DATA**

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## Efficacy Test Report

### 1. Test Objective

At least 5 volunteers with dark skin and 26 Chinese volunteers were selected to use the product for 28 days,conducting non-invasive instrument testing, evaluate the hair removal effect of the product.

### 2. Ethical Statement

According to the Helsinki Declaration, the selection of volunteers follows medical and ethical standards for human trials, and all volunteer trials must be voluntary and signed with informed consent prior to the trial. Before volunteers sign the informed consent form, the experimenters need to inform them of the purpose of the experiment, possible benefits, potential risks and issues, as well as related rights and obligations.

### 3. Test Reference

[1] Laboratory internal methods

### 4. Test Sample

#### 4.1 Sample information

The Client: One Beauty Technology Co., Ltd.

The Client Address: Room 2208, 22nd F Shenye Center, Guiyuan Street Luohu District, 518010 Shenzhen , Guangdong Province, China.

Table 4.1 Sample information

| No. | Sample Name             | Quantity | Sample type | Batch No./Production Date |
|-----|-------------------------|----------|-------------|---------------------------|
| 1   | IPL Hair Removal Device | 35       | AR700       | /                         |

#### 4.2 Sample instructions

Table 4.2 Sample instructions

| No. | Sample Name             | Instructions                           |
|-----|-------------------------|----------------------------------------|
| 1   | IPL Hair Removal Device | Follow the instructions and use videos |

### 5. Experimental Design

Single-center, before and after self-control, and compare with the control.

## 6. Test Time

Dec.10,2024- Jan.09,2025

## 7. Test Environment

Temperature: 21.0°C±1.0°C, Relative Humidity: 50%±10%

## 8. Subjects

All subjects received oral and paper informed consent in accordance with local laws and regulations. Informed consent explains the nature and purpose of the study and the potential risks involved in the study, and emphasizes the voluntary nature of the test, and the subjects can exit the study at any time for any reason. All subjects can ask questions about research and give sufficient time before signing. All informed consent must be signed before the start of the study

### 8.1 Inclusion Criteria

- (1) Healthy males and females aged 18-55 (at start of the experiment). At least 5 volunteers with dark skin and 26 Chinese volunteers.
- (2) Arms with thick and coarse hair
- (3) Can cooperate well with the use of samples, understand and fill out project questionnaires, and cooperate with staff.
- (4) Can cooperate well with the experimenter and maintain a regular life during the study.
- (5) Able to read and understand the informed consent forms and voluntarily signed the informed consent forms.
- (6) Agree not to use any cosmetics, drugs and health care products which would affect the results at the test site during the test

### 8.2 Exclusion Criteria

- (1) Individuals with allergies, allergic dermatitis, and a history of skin diseases or illnesses (severe freckles, atopic dermatitis, psoriasis, eczema, severe acne, etc.) who are clinically deemed unsuitable for participating in this project.
- (2) The test site has large birthmarks, scratch marks, white patches, pigmented nevi, scar lumps and other skin characteristics that affect the test.
- (3) Pregnancy, lactation, menopause.
- (4) Other requirements that affect this experiment.
- (5) Participants who have participated in other clinical trials within the past 1 months.
- (6) In addition, the test director judged that the population was not suitable for this test.

### 8.3 Restrictions.

- (1) During the whole study, prohibited treatment that affects the test area.

- (2) During the whole study, prohibited the use of other skincare products and other products that might interfere with the study.
- (3) During the testing period, daily necessities should be consistent with those used before, and replacement was prohibited.

## 8.4 Subjects information

A total of 31 subjects completed the test, aged between 21 and 53 years old, with an average age of  $36.03 \pm 9.48$  years old.

The number and information of subjects are shown in Tables 8.4.1-8.4.2 below:

**Table 8.4.1 Number of Subjects**

| Screened | Enrolled | Withdrawals | Completed | Analyzed |
|----------|----------|-------------|-----------|----------|
| 33       | 31       | 0           | 31        | 31       |

**Table 8.4.2 Age of Subjects**

| Average age $\pm$ SD | Minimum age | Maximum age |
|----------------------|-------------|-------------|
| $36.03 \pm 9.48$     | 21          | 53          |

## 9. Test Methods

### 9.1 Test Procedure

- ① Recruited volunteer subjects as required. The subjects visited the laboratory and signed a written informed consent form. The laboratory staff screened the subjects according to the experimental requirements and explained the test procedure to the subject.
- ② The subjects cleaned their arms with water, absorbed the water with chipless dry paper. Then sat quietly in a constant temperature and humidity room for 30 minutes.
- ③ Qualified subjects entered the test in the following order: Digital camera( The left and the right arms with thick hair ) → C-cube (Area with thick hair on the left and the right arms).
- ④ After the subjects completing the test, the staff distributed the test product and provided guidance on the usage method of the product. Subjects used the IPL Hair Removal Device and razor on the left arm to be the sample side, and the right arm used the razor to be the control.
- ⑤ Subject follow-up, after using the product at home for 28 days, the subject visited the testing center and cleaned their arms with water, absorbed the water with chipless dry paper. Then sat quietly in a constant temperature and humidity room for 30 minutes.
- ⑥ Proceed to testing. The testing steps were the same as step 3, then completed the self-assessment questionnaire after the test.
- ⑦ The testing process was end.

## 9.2 Test Content and Equipment

### 1. Hair removal effect

1.1 Test equipment: C-cube

1.2 Test time: D0, D28

1.3 Test site: The left and the right arms.

1.4 Parameter explanation: The smaller the hair area ratio, the smaller the hair area, the better the hair removal effect.

1.5 Determination: After using the product, the parameter values in the test area decreased significantly, indicated that the test product had the effect of hair removal.

### 2. Questionnaire

2.1 Test time: D28

Subjects answered the self-assessment questionnaire based on the test questions. For the 5-point scale question, statistics of the proportion of "strongly agree/satisfied" and "agree/satisfied" options and conducted a binomial distribution analysis.

## 10. Data analysis and statistical methods

Applied EXCEL software to conduct descriptive statistics on various measurement values, including mean, standard error.

Instrument testing & image analysis results: the significance test of the normal distribution of data change values was carried out using the Shapiro-Wilk Test using SPSS software. If the data was normally distributed, the paired t-test was used, otherwise the Wilcoxon rank sum test for two related samples was used. The level of significant difference,  $\alpha$ , was taken as 0.05.

Satisfied data: The proportions of "strongly agree/satisfied" and "agree/satisfied" options would be counted, and binomial distribution analysis would be performed with a significance threshold set at 5%. The inspection ratio was 0.5.

Change rate % = (test mean value after using the product - test mean value before using the product) / test mean value before using the product \* 100%

## 11. Test Results

### 11.1. Test Results of the hair area ratio

After using the product for 28 days, the hair area ratio on the sample side significantly decreased 92.37% ( $p < 0.001$ ) compared to before use.

The specific test results were shown in the table below:

**Table 11.1.1 Test results of the hair area ratio (31 subjects)**

| Parameters                           | Statistical Items | Test time | Descriptive statistic |      | Change rate <sup>1</sup><br>(%) | Significance test<br>(vs D0) |                           |
|--------------------------------------|-------------------|-----------|-----------------------|------|---------------------------------|------------------------------|---------------------------|
|                                      |                   |           | Mean                  | SE   |                                 | p                            | Significance <sup>2</sup> |
| The hair area ratio-<br>Sample side  |                   | D0        | 2.36                  | 0.23 | /                               | /                            | /                         |
|                                      |                   | D28       | 0.18                  | 0.04 | -92.37                          | <0.001                       | ***                       |
| The hair area ratio-<br>Control side |                   | D0        | 2.25                  | 0.28 | /                               | /                            | /                         |
|                                      |                   | D28       | 0.24                  | 0.05 | -89.33                          | <0.001                       | ***                       |

Note: 1. Change rate % = (test mean value after using the product - test mean value before using the product) / test mean value before using the product \* 100%.

2. Interpretation of significant markers:  $p \geq 0.05$ , "n.s." indicates no statistical difference;  $p < 0.05$  indicates significant differences; Among them, "\*" represents  $0.01 \leq p < 0.05$ ; "\*" represents  $0.001 \leq p < 0.01$ ; "\*\*\*" indicates  $p < 0.001$ .

**Table 11.1.2 Comparison results of the hair area ratio (31 subjects)**

| Parameters          | Statistical Items | Test time | Change value<br>of the sample<br>side | Change value<br>of the Control<br>side | P     | Significance <sup>1</sup> |
|---------------------|-------------------|-----------|---------------------------------------|----------------------------------------|-------|---------------------------|
|                     |                   |           |                                       |                                        |       |                           |
| The hair area ratio |                   | D28       | -2.18                                 | -2.01                                  | 0.044 | *                         |

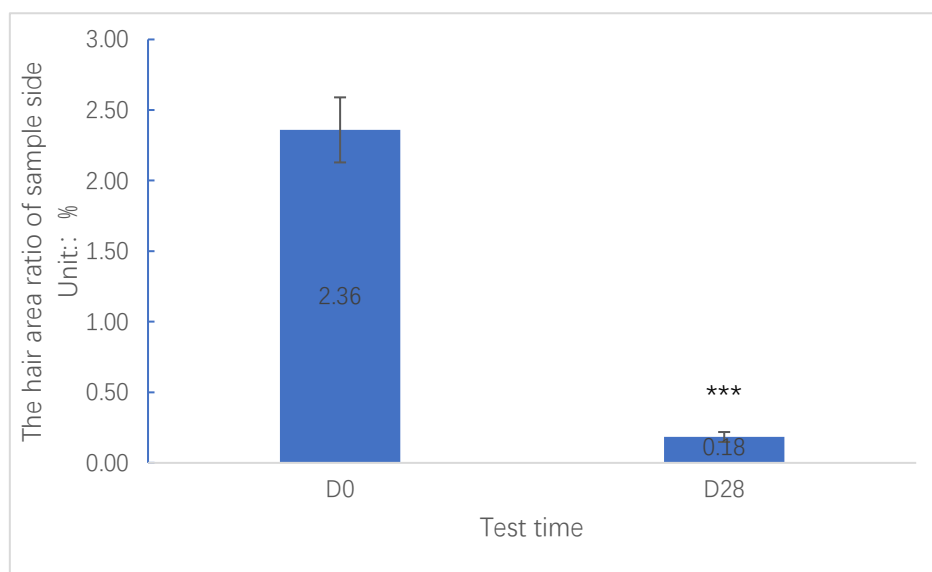


**Figure 11.1.1 Analysis of the hair area ratio of sample side before and after use**

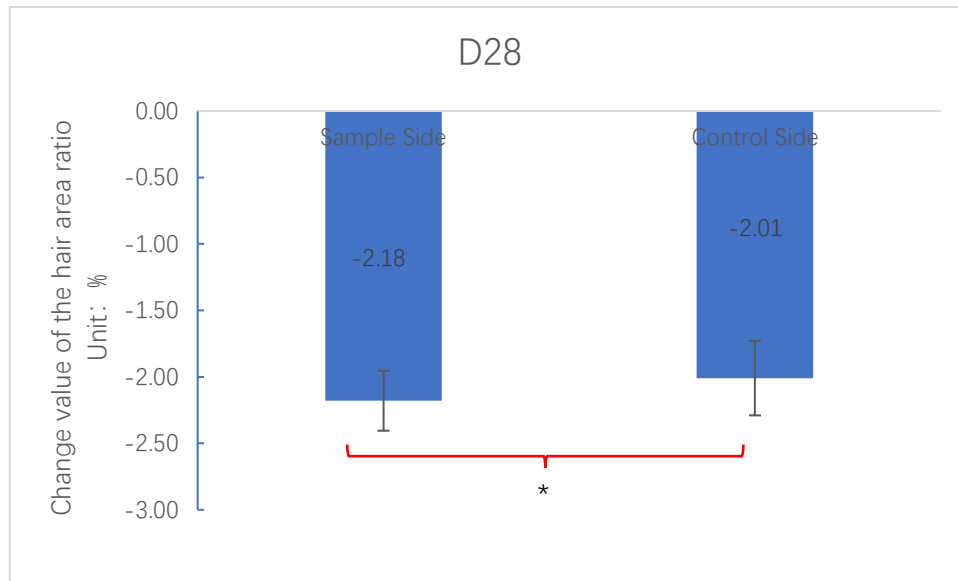


**Figure 11.1.2 Comparison analysis of hair area ratio between sample side and control side**

### 11.1 Test results of the satisfaction questionnaire

The specific test results were shown in the table below:

**Table 11.2 Satisfaction survey results (31 subjects)**

| No. | Questions                                                                   | Satisfaction percentage (%) | P value, significance |
|-----|-----------------------------------------------------------------------------|-----------------------------|-----------------------|
| 1   | There is obvious hair removal effect, and the body hair is clean            | 100.0                       | <0.001, ***           |
| 2   | The product removes hair better than a razor                                | 100.0                       | <0.001, ***           |
| 3   | There is fast hair removal speed                                            | 100.0                       | <0.001, ***           |
| 4   | After use, the skin becomes bright and smooth                               | 100.0                       | <0.001, ***           |
| 5   | No irritation, no sting when use                                            | 100.0                       | <0.001, ***           |
| 6   | Feels that the product is safe for skin when use                            | 100.0                       | <0.001, ***           |
| 7   | It is easy to carry                                                         | 100.0                       | <0.001, ***           |
| 8   | It is easy to use                                                           | 100.0                       | <0.001, ***           |
| 9   | Feels comfortable on the grip and weight when using the hair removal device | 100.0                       | <0.001, ***           |
| 10  | Desire to buy after use                                                     | 100.0                       | <0.001, ***           |
| 11  | The product is safe and has good effects                                    | 100.0                       | <0.001, ***           |
| 12  | After using the hair removal device, hair regenerates slowly                | 100.0                       | <0.001, ***           |

| No. | Questions                                                             | Satisfaction percentage (%) | P value, significance |
|-----|-----------------------------------------------------------------------|-----------------------------|-----------------------|
| 13  | After 28 days of use, feels satisfied with the effect of hair removal | 100.0                       | <0.001, ***           |

## 12 Test Conclusion

### 12.1 Instrument test Conclusion

A total of 31 subjects continuously used the " IPL Hair Removal Device "for 28 days, compared with before use, the test results showed that:

- (1) The hair area ratio on the sample side significantly decreased ( $p < 0.001$ ), indicated that the test product had a 28-days effect of hair removal. The improvement rate on the sample side was 92.37%.

### 12.2 Questionnaire test conclusion

A total of 31 subjects continuously used the " IPL Hair Removal Device "for 28 days, satisfaction questionnaire results showed that:

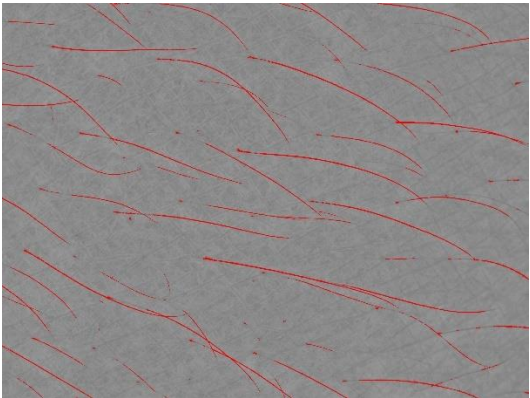
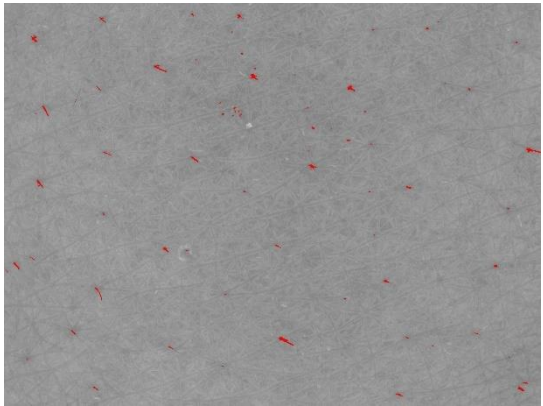
- 100.0% of the subjects agreed that there was obvious hair removal effect, and the body hair was clean.
- 100.0% of the subjects agreed that the product removed hair better than a razor.
- 100.0% of the subjects agreed that there was fast hair removal speed.
- 100.0% of the subjects agreed that the skin became bright and smooth after use.
- 100.0% of the subjects agreed that there was no irritation, no sting when use.
- 100.0% of the subjects felt that the product was safe for skin when use.
- 100.0% of the subjects agreed that the product was easy to carry.
- 100.0% of the subjects agreed that the product was easy to use.
- 100.0% of the subjects felt comfortable on the grip and weight when using the hair removal device.
- 100.0% of the subjects desired to buy after use.
- 100.0% of the subjects agreed that the product was safe and had good effects.
- 100.0% of the subjects agreed that hair regenerates slowly after using the hair removal device.
- 100.0% of the subjects felt satisfied with the effect of hair removal after 28 days of use.

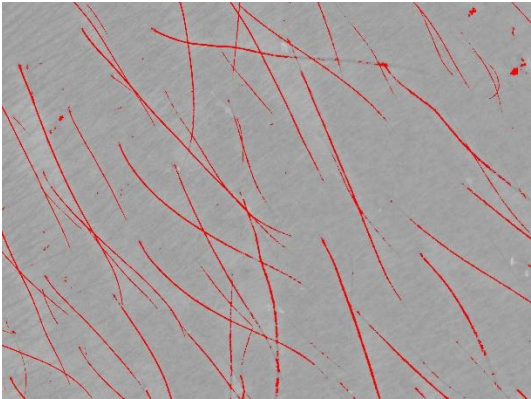
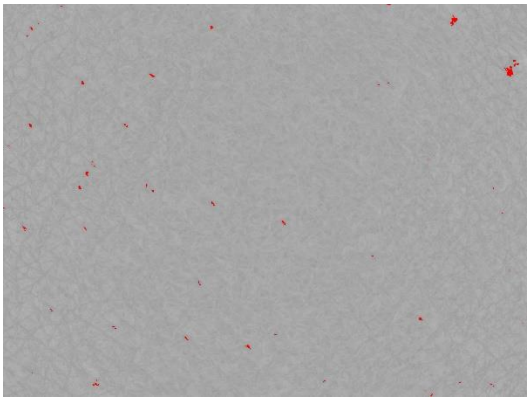
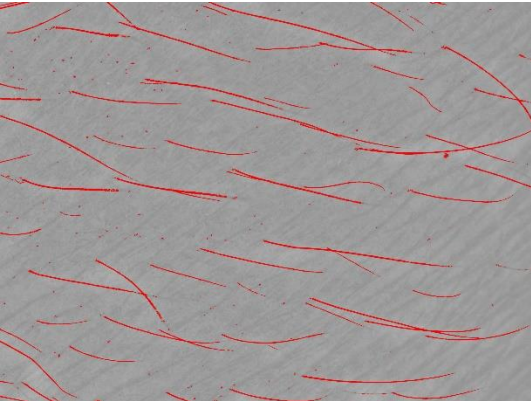
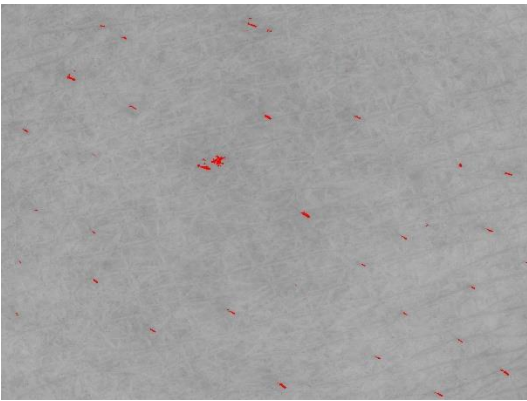
## Appendix 1 Subjects' information

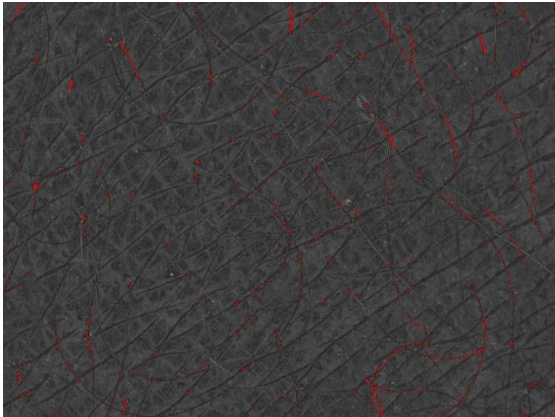
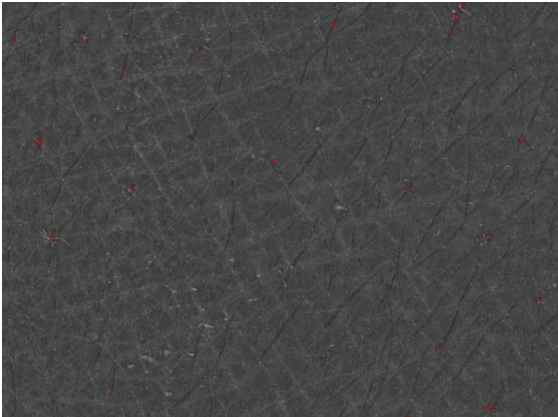
| No. | Name | Gender | Age | Nationality |          | Fitzpatrick-<br>Pathak<br>Skin typing | Analyzed<br>the data<br>or not |
|-----|------|--------|-----|-------------|----------|---------------------------------------|--------------------------------|
| 1   | PDF  | Male   | 46  | Chinese     | China    | II                                    | Yes                            |
| 2   | WJY  | Female | 30  | Chinese     | China    | III                                   | Yes                            |
| 3   | QXY  | Female | 38  | Chinese     | China    | III                                   | Yes                            |
| 4   | WLJ  | Female | 35  | Chinese     | China    | III                                   | Yes                            |
| 5   | FPP  | Female | 34  | Chinese     | China    | III                                   | Yes                            |
| 6   | CHQ  | Female | 41  | Chinese     | China    | II                                    | Yes                            |
| 7   | ZYH  | Female | 44  | Chinese     | China    | II                                    | Yes                            |
| 8   | CXM  | Female | 53  | Chinese     | China    | III                                   | Yes                            |
| 9   | OLK  | Female | 35  | Chinese     | China    | III                                   | Yes                            |
| 10  | LJY  | Female | 28  | Chinese     | China    | II                                    | Yes                            |
| 11  | LJ   | Female | 39  | Chinese     | China    | II                                    | Yes                            |
| 12  | XHM  | Female | 24  | Chinese     | China    | III                                   | Yes                            |
| 13  | WFG  | Male   | 28  | Chinese     | China    | III                                   | Yes                            |
| 14  | LLJ  | Female | 30  | Chinese     | China    | III                                   | Yes                            |
| 15  | FSP  | Female | 51  | Chinese     | China    | IV                                    | Yes                            |
| 16  | LSH  | Female | 53  | Chinese     | China    | III                                   | Yes                            |
| 17  | CJQ  | Male   | 39  | Chinese     | China    | II                                    | Yes                            |
| 18  | DMY  | Female | 21  | Chinese     | China    | II                                    | Yes                            |
| 19  | YHL  | Female | 34  | Chinese     | China    | II                                    | Yes                            |
| 20  | LHQ  | Female | 53  | Chinese     | China    | III                                   | Yes                            |
| 21  | QWZ  | Female | 29  | Chinese     | China    | II                                    | Yes                            |
| 22  | LML  | Female | 27  | Chinese     | China    | III                                   | Yes                            |
| 23  | FDJ  | Male   | 35  | Chinese     | China    | III                                   | Yes                            |
| 24  | DWY  | Male   | 40  | Chinese     | China    | IV                                    | Yes                            |
| 25  | MWJ  | Male   | 42  | Chinese     | China    | III                                   | Yes                            |
| 26  | CA   | Female | 24  | Tanzanian   | Tanzania | VI                                    | Yes                            |
| 27  | CJ   | Female | 27  | Tanzanian   | Tanzania | V                                     | Yes                            |
| 28  | HE   | Male   | 23  | Nigerian    | Nigerian | V                                     | Yes                            |
| 29  | VOCG | Male   | 34  | Nigerian    | Nigerian | VI                                    | Yes                            |
| 30  | EEB  | Male   | 30  | Tanzanian   | Tanzania | VI                                    | Yes                            |
| 31  | ZHM  | Female | 50  | Chinese     | China    | V                                     | Yes                            |

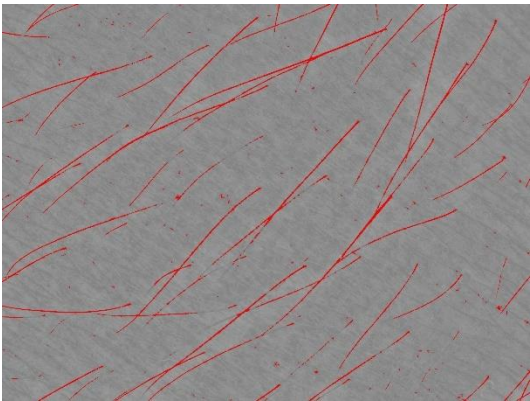
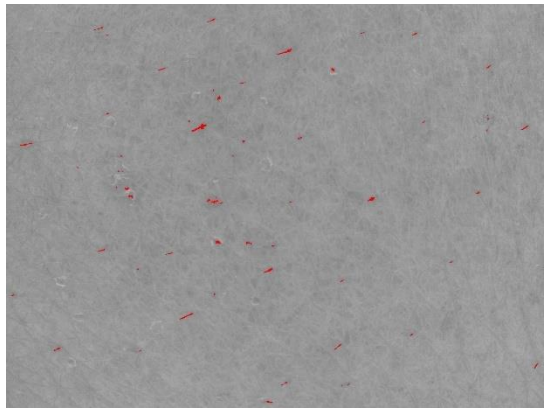
**Appendix 2 Effective example photos**

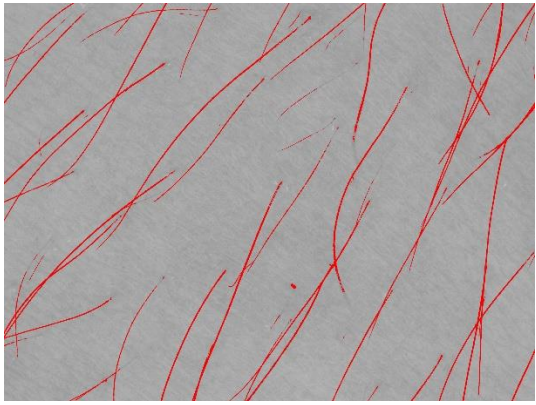
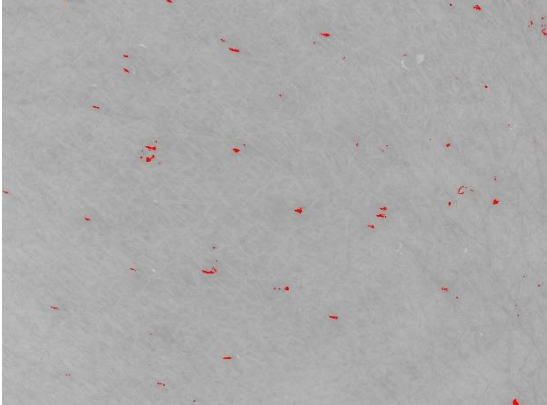
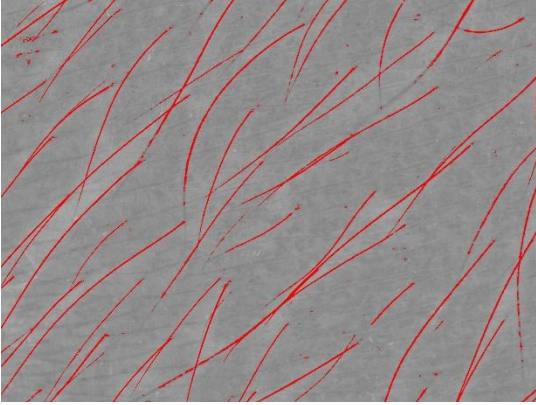
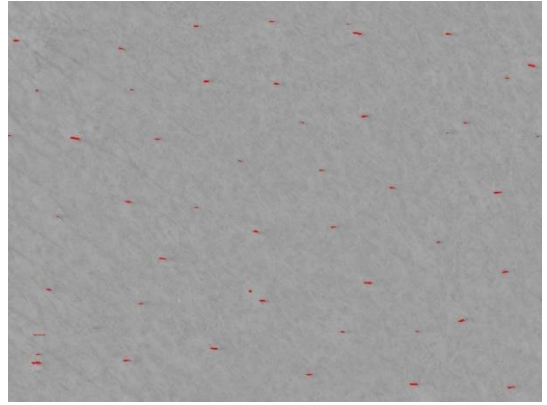
C-cube photos (Hair area)

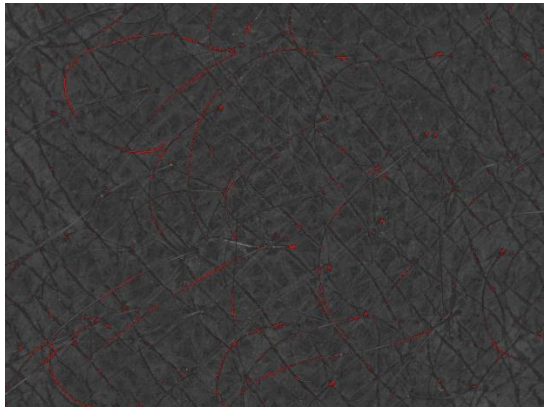
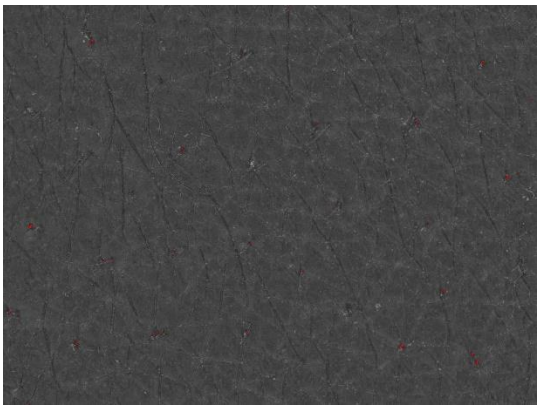
| No.            | D0                                                                                  | D28                                                                                  |
|----------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 08-Sample Side |    |    |
|                |   |   |
| 10-Sample Side |  |  |

|                       |                                                                                     |                                                                                      |
|-----------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|                       |    |    |
| 20-<br>Sample<br>Side |   |   |
|                       |  |  |
| 29-<br>Sample<br>Side |  |  |

|  |                                                                                   |                                                                                    |
|--|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|  |  |  |
|--|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|

| No.                    | D0                                                                                  | D28                                                                                  |
|------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 08-<br>Control<br>Side |   |   |
|                        |  |  |

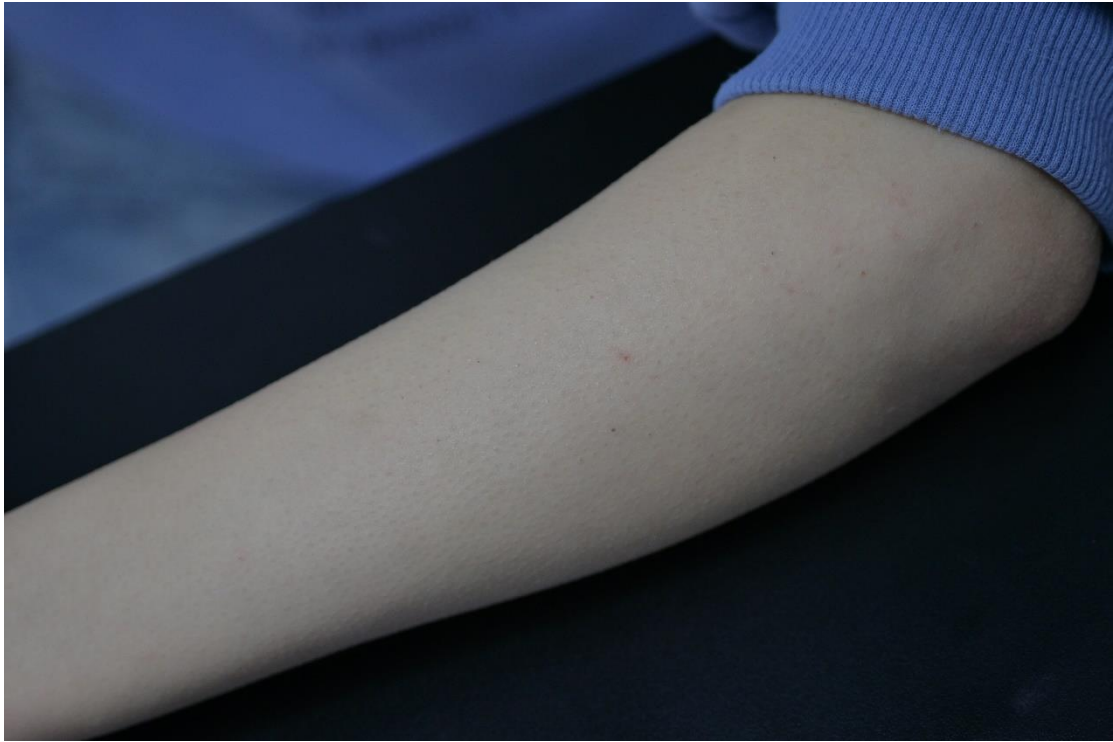
|                        |                                                                                     |                                                                                      |
|------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 10-<br>Control<br>Side |    |    |
|                        |   |   |
| 20-<br>Control<br>Side |  |  |
|                        |  |  |

|                        |                                                                                    |                                                                                     |
|------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 29-<br>Control<br>Side |   |   |
|                        |  |  |

Digital camera photos

|     |                                                                                      |
|-----|--------------------------------------------------------------------------------------|
| No. | 09-Sample Side                                                                       |
| D0  |   |
| D28 |  |

|     |                                                                                      |
|-----|--------------------------------------------------------------------------------------|
| No. | 09-Control Side                                                                      |
| D0  |   |
| D28 |  |

|     |                                                                                      |
|-----|--------------------------------------------------------------------------------------|
| No. | 18-Sample Side                                                                       |
| D0  |   |
| D28 |  |

|     |                                                                                      |
|-----|--------------------------------------------------------------------------------------|
| No. | 18-Control Side                                                                      |
| D0  |   |
| D28 |  |

|     |                                                                                      |
|-----|--------------------------------------------------------------------------------------|
| No. | 20-Sample Side                                                                       |
| D0  |   |
| D28 |  |

|     |                                                                                      |
|-----|--------------------------------------------------------------------------------------|
| No. | 20-Control Side                                                                      |
| D0  |   |
| D28 |  |

|     |                                                                                      |
|-----|--------------------------------------------------------------------------------------|
| No. | 29-Sample Side                                                                       |
| D0  |   |
| D28 |  |

|     |                                                                                      |
|-----|--------------------------------------------------------------------------------------|
| No. | 29-Control Side                                                                      |
| D0  |   |
| D28 |  |

---

End of report

*The statements of conformity reported have considered the decision rule agreed, namely that Intertek have taken account of measurement uncertainty as calculated by Intertek, and applied according to ILAC-G8/09:2019 (Non-binary acceptance based on guard band  $w = U$ ) except designation from the customer, regulation or test specification. This decision rule only applies to the numeric test results.*

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