

# Test Report

No. : CE/2019/73751B

Date : 2019/08/07

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LELON ELECTRONICS CORP.

(LELON ELECTRONICS(HUIZHOU) CO., LTD.)

(LELON ELECTRONICS(SUZHOU) CO., LTD.)

147, SEC. 1, GUOGUANG RD., DALI DISTRICT, TAICHUNG, TAIWAN

(TAIYANG INDUSTRIAL ZONE, BAIHUA TOWN, HUIDONG COUNTY, HUIZHOU CITY, GUANGDONG, CHINA)

(1220, ZHONGSHAN NORTH RD., WUJIANG ECONOMIC AND TECHNOLOGICAL DEVELOPMENT ZONE SUZHOU CITY, JIANGSU, CHINA)

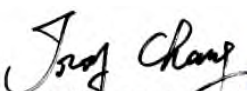
**The following sample(s) was/were submitted and identified by/on behalf of the applicant as :**

Sample Submitted By : LELON ELECTRONICS CORP.  
Sample Description : SMD ALUMINUM ELECTROLYTIC CAPACITORS  
Style/Item No. : CHIP TYPE  
Sample Receiving Date : 2019/07/18  
Testing Period : 2019/07/18 to 2019/08/02

**Test Requested** : (1) As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample(s).  
(2) As specified by client, to test Halogen-Chlorine, Bromine contents in the submitted sample.

**Test Result(s)** : Please refer to following pages.

\* This report is combined with reports of CE/2019/73748 and CE/2019/73751 \*

  
Troy Chang / Manager - Tech  
Signed for and behalf of  
SGS TAIWAN LTD.  
Chemical Laboratory - Taipei



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## Test Result(s)

- PART NAME No.1 : GRAY METAL (AL-FOIL) (CE/2019/73748 No.1)
- PART NAME No.2 : SILVER COLORED METAL (AL-CASE) (CE/2019/73751 No.1)
- PART NAME No.3 : SILVER COLORED METAL PIN (INCLUDING THE PLATING LAYER) (LEAD WIRE) (CE/2019/73748 No.3)
- PART NAME No.4 : BROWN PAPER (ELECTROLYTIC PAPER) (CE/2019/73748 No.4)
- PART NAME No.5 : TRANSPARENT TAPE (ADHESIVE TAPE) (CE/2019/73748 No.5)
- PART NAME No.6 : BLACK RUBBER (RUBBER-IIR) (CE/2019/73748 No.6)
- PART NAME No.7 : BLACK PLASTIC (BASE) (CE/2019/73751 No.2)
- PART NAME No.8 : BLACK INK (DRY BASE) (UV INK) (CE/2019/73751 No.3)
- PART NAME No.9 : TRANSPARENT YELLOW LIQUID (ELECTROLYTE GBL) (CE/2019/73748 No.17)

| Test Item(s)                   | Unit               | Method                                                                 | MDL  | Result |      |      |      |      |
|--------------------------------|--------------------|------------------------------------------------------------------------|------|--------|------|------|------|------|
|                                |                    |                                                                        |      | No.1   | No.2 | No.3 | No.4 | No.5 |
| Cadmium (Cd)                   | mg/kg              | With reference to IEC 62321-5 (2013) and performed by ICP-AES.         | 2    | n.d.   | n.d. | n.d. | n.d. | n.d. |
| Lead (Pb)                      | mg/kg              | With reference to IEC 62321-5 (2013) and performed by ICP-AES.         | 2    | n.d.   | 17.5 | 6.02 | n.d. | n.d. |
| Mercury (Hg)                   | mg/kg              | With reference to IEC 62321-4:2013+AMD1:2017 and performed by ICP-AES. | 2    | n.d.   | n.d. | n.d. | n.d. | n.d. |
| Hexavalent Chromium Cr(VI)(#2) | µg/cm <sup>2</sup> | With reference to IEC 62321-7-1 (2015) and performed by UV-VIS.        | 0.10 | n.d.   | n.d. | n.d. | ---  | ---  |
| Hexavalent Chromium Cr(VI)     | mg/kg              | With reference to IEC 62321-7-2 (2017) and performed by UV-VIS.        | 8    | ---    | ---  | ---  | n.d. | n.d. |

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| Test Item(s)             | Unit  | Method                                                       | MDL | Result |      |      |      |      |
|--------------------------|-------|--------------------------------------------------------------|-----|--------|------|------|------|------|
|                          |       |                                                              |     | No.1   | No.2 | No.3 | No.4 | No.5 |
| <b>Sum of PBBs</b>       | mg/kg | With reference to IEC 62321-6 (2015) and performed by GC/MS. | -   | ---    | n.d. | ---  | n.d. | n.d. |
| Monobromobiphenyl        | mg/kg |                                                              | 5   | ---    | n.d. | ---  | n.d. | n.d. |
| Dibromobiphenyl          | mg/kg |                                                              | 5   | ---    | n.d. | ---  | n.d. | n.d. |
| Tribromobiphenyl         | mg/kg |                                                              | 5   | ---    | n.d. | ---  | n.d. | n.d. |
| Tetrabromobiphenyl       | mg/kg |                                                              | 5   | ---    | n.d. | ---  | n.d. | n.d. |
| Pentabromobiphenyl       | mg/kg |                                                              | 5   | ---    | n.d. | ---  | n.d. | n.d. |
| Hexabromobiphenyl        | mg/kg |                                                              | 5   | ---    | n.d. | ---  | n.d. | n.d. |
| Heptabromobiphenyl       | mg/kg |                                                              | 5   | ---    | n.d. | ---  | n.d. | n.d. |
| Octabromobiphenyl        | mg/kg |                                                              | 5   | ---    | n.d. | ---  | n.d. | n.d. |
| Nonabromobiphenyl        | mg/kg |                                                              | 5   | ---    | n.d. | ---  | n.d. | n.d. |
| Decabromobiphenyl        | mg/kg |                                                              | 5   | ---    | n.d. | ---  | n.d. | n.d. |
| <b>Sum of PBDEs</b>      | mg/kg |                                                              | -   | ---    | n.d. | ---  | n.d. | n.d. |
| Monobromodiphenyl ether  | mg/kg |                                                              | 5   | ---    | n.d. | ---  | n.d. | n.d. |
| Dibromodiphenyl ether    | mg/kg |                                                              | 5   | ---    | n.d. | ---  | n.d. | n.d. |
| Tribromodiphenyl ether   | mg/kg |                                                              | 5   | ---    | n.d. | ---  | n.d. | n.d. |
| Tetrabromodiphenyl ether | mg/kg |                                                              | 5   | ---    | n.d. | ---  | n.d. | n.d. |
| Pentabromodiphenyl ether | mg/kg |                                                              | 5   | ---    | n.d. | ---  | n.d. | n.d. |
| Hexabromodiphenyl ether  | mg/kg |                                                              | 5   | ---    | n.d. | ---  | n.d. | n.d. |
| Heptabromodiphenyl ether | mg/kg |                                                              | 5   | ---    | n.d. | ---  | n.d. | n.d. |
| Octabromodiphenyl ether  | mg/kg |                                                              | 5   | ---    | n.d. | ---  | n.d. | n.d. |
| Nonabromodiphenyl ether  | mg/kg |                                                              | 5   | ---    | n.d. | ---  | n.d. | n.d. |
| Decabromodiphenyl ether  | mg/kg |                                                              | 5   | ---    | n.d. | ---  | n.d. | n.d. |

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| Test Item(s)                                            | Unit  | Method                                                                 | MDL | Result |      |      |      |      |
|---------------------------------------------------------|-------|------------------------------------------------------------------------|-----|--------|------|------|------|------|
|                                                         |       |                                                                        |     | No.1   | No.2 | No.3 | No.4 | No.5 |
| DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7) | mg/kg | With reference to IEC 62321-8 (2017). Analysis was performed by GC/MS. | 50  | ---    | n.d. | ---  | n.d. | n.d. |
| BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)         | mg/kg |                                                                        | 50  | ---    | n.d. | ---  | n.d. | n.d. |
| DBP (Dibutyl phthalate) (CAS No.: 84-74-2)              | mg/kg |                                                                        | 50  | ---    | n.d. | ---  | n.d. | n.d. |
| DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5)         | mg/kg |                                                                        | 50  | ---    | n.d. | ---  | n.d. | n.d. |
| Halogen-Chlorine (Cl) (CAS No.: 22537-15-1)             | mg/kg | With reference to BS EN 14582 (2016). Analysis was performed by IC.    | 50  | ---    | n.d. | ---  | n.d. | n.d. |
| Halogen-Bromine (Br) (CAS No.: 10097-32-2)              | mg/kg |                                                                        | 50  | ---    | n.d. | ---  | n.d. | n.d. |

| Test Item(s)               | Unit  | Method                                                                 | MDL | Result |      |      |      |
|----------------------------|-------|------------------------------------------------------------------------|-----|--------|------|------|------|
|                            |       |                                                                        |     | No.6   | No.7 | No.8 | No.9 |
| Cadmium (Cd)               | mg/kg | With reference to IEC 62321-5 (2013) and performed by ICP-AES.         | 2   | n.d.   | n.d. | n.d. | n.d. |
| Lead (Pb)                  | mg/kg | With reference to IEC 62321-5 (2013) and performed by ICP-AES.         | 2   | 3.81   | 5.48 | n.d. | n.d. |
| Mercury (Hg)               | mg/kg | With reference to IEC 62321-4:2013+AMD1:2017 and performed by ICP-AES. | 2   | n.d.   | n.d. | n.d. | n.d. |
| Hexavalent Chromium Cr(VI) | mg/kg | With reference to IEC 62321-7-2 (2017) and performed by UV-VIS.        | 8   | n.d.   | n.d. | n.d. | n.d. |

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| Test Item(s)             | Unit  | Method                                                       | MDL | Result |      |      |      |
|--------------------------|-------|--------------------------------------------------------------|-----|--------|------|------|------|
|                          |       |                                                              |     | No.6   | No.7 | No.8 | No.9 |
| <b>Sum of PBBs</b>       | mg/kg | With reference to IEC 62321-6 (2015) and performed by GC/MS. | -   | n.d.   | n.d. | n.d. | n.d. |
| Monobromobiphenyl        | mg/kg |                                                              | 5   | n.d.   | n.d. | n.d. | n.d. |
| Dibromobiphenyl          | mg/kg |                                                              | 5   | n.d.   | n.d. | n.d. | n.d. |
| Tribromobiphenyl         | mg/kg |                                                              | 5   | n.d.   | n.d. | n.d. | n.d. |
| Tetrabromobiphenyl       | mg/kg |                                                              | 5   | n.d.   | n.d. | n.d. | n.d. |
| Pentabromobiphenyl       | mg/kg |                                                              | 5   | n.d.   | n.d. | n.d. | n.d. |
| Hexabromobiphenyl        | mg/kg |                                                              | 5   | n.d.   | n.d. | n.d. | n.d. |
| Heptabromobiphenyl       | mg/kg |                                                              | 5   | n.d.   | n.d. | n.d. | n.d. |
| Octabromobiphenyl        | mg/kg |                                                              | 5   | n.d.   | n.d. | n.d. | n.d. |
| Nonabromobiphenyl        | mg/kg |                                                              | 5   | n.d.   | n.d. | n.d. | n.d. |
| Decabromobiphenyl        | mg/kg |                                                              | 5   | n.d.   | n.d. | n.d. | n.d. |
| <b>Sum of PBDEs</b>      | mg/kg |                                                              | -   | n.d.   | n.d. | n.d. | n.d. |
| Monobromodiphenyl ether  | mg/kg |                                                              | 5   | n.d.   | n.d. | n.d. | n.d. |
| Dibromodiphenyl ether    | mg/kg |                                                              | 5   | n.d.   | n.d. | n.d. | n.d. |
| Tribromodiphenyl ether   | mg/kg |                                                              | 5   | n.d.   | n.d. | n.d. | n.d. |
| Tetrabromodiphenyl ether | mg/kg |                                                              | 5   | n.d.   | n.d. | n.d. | n.d. |
| Pentabromodiphenyl ether | mg/kg |                                                              | 5   | n.d.   | n.d. | n.d. | n.d. |
| Hexabromodiphenyl ether  | mg/kg |                                                              | 5   | n.d.   | n.d. | n.d. | n.d. |
| Heptabromodiphenyl ether | mg/kg |                                                              | 5   | n.d.   | n.d. | n.d. | n.d. |
| Octabromodiphenyl ether  | mg/kg |                                                              | 5   | n.d.   | n.d. | n.d. | n.d. |
| Nonabromodiphenyl ether  | mg/kg |                                                              | 5   | n.d.   | n.d. | n.d. | n.d. |
| Decabromodiphenyl ether  | mg/kg |                                                              | 5   | n.d.   | n.d. | n.d. | n.d. |

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| Test Item(s)                                            | Unit  | Method                                                                 | MDL | Result |      |      |      |
|---------------------------------------------------------|-------|------------------------------------------------------------------------|-----|--------|------|------|------|
|                                                         |       |                                                                        |     | No.6   | No.7 | No.8 | No.9 |
| DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7) | mg/kg | With reference to IEC 62321-8 (2017). Analysis was performed by GC/MS. | 50  | n.d.   | n.d. | n.d. | n.d. |
| BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)         | mg/kg |                                                                        | 50  | n.d.   | n.d. | n.d. | n.d. |
| DBP (Dibutyl phthalate) (CAS No.: 84-74-2)              | mg/kg |                                                                        | 50  | n.d.   | n.d. | n.d. | n.d. |
| DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5)         | mg/kg |                                                                        | 50  | n.d.   | n.d. | n.d. | n.d. |
| Halogen-Chlorine (Cl) (CAS No.: 22537-15-1)             | mg/kg | With reference to BS EN 14582 (2016). Analysis was performed by IC.    | 50  | 87.0   | n.d. | 387  | n.d. |
| Halogen-Bromine (Br) (CAS No.: 10097-32-2)              | mg/kg |                                                                        | 50  | n.d.   | n.d. | n.d. | n.d. |

## Note :

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. MDL = Method Detection Limit
3. n.d. = Not Detected = below MDL
4. " - " = Not Regulated
5. "----" = Not Conducted
6. (#2) =
  - a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13  $\mu\text{g}/\text{cm}^2$ .  
The sample coating is considered to contain Cr(VI)
  - b. The sample is negative for Cr(VI) if Cr(VI) is n.d. (concentration less than 0.10  $\mu\text{g}/\text{cm}^2$ ).  
The coating is considered a non-Cr(VI) based coating
  - c. The result between 0.10  $\mu\text{g}/\text{cm}^2$  and 0.13  $\mu\text{g}/\text{cm}^2$  is considered to be inconclusive - unavoidable coating variations may influence the determination.
7. For No.8: The sample(s) was/were tested after drying at 105°C for 48 hours by UV Lamp.

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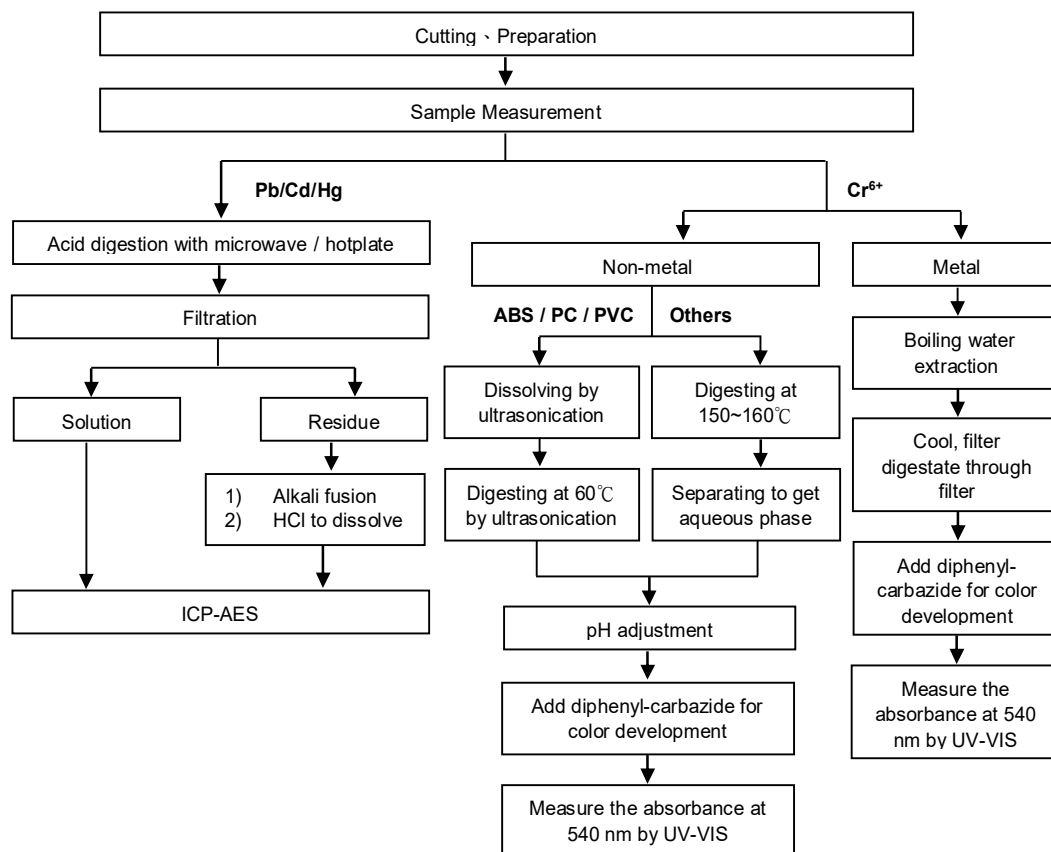
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### Analytical flow chart of Heavy Metal

These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr<sup>6+</sup> test method excluded)

- Technician : Rita Chen
- Supervisor: Troy Chang



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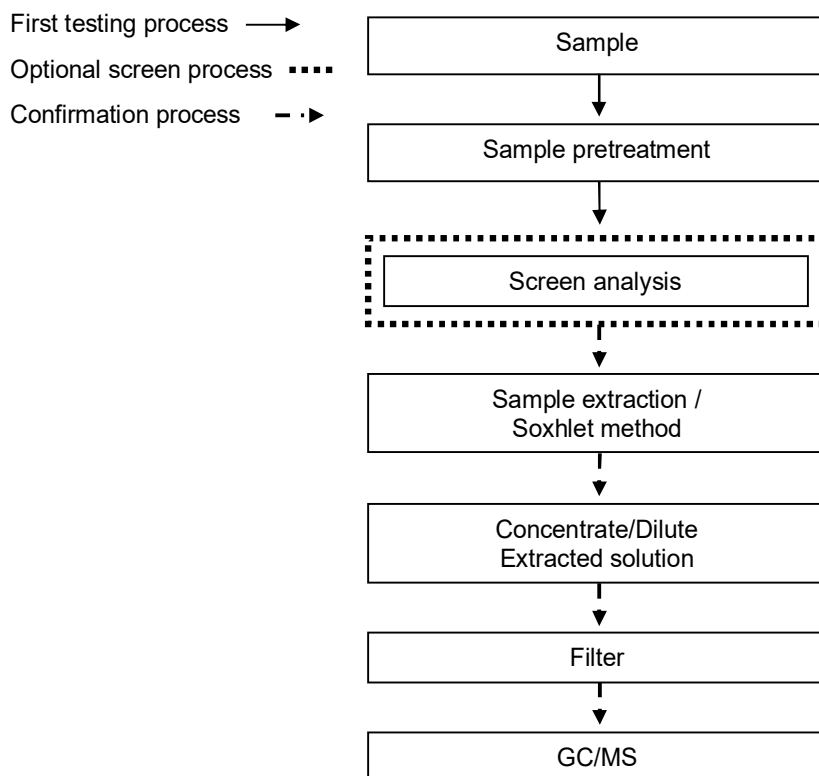
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### Analytical flow chart – PBB / PBDE

- Technician : Yaling Tu
- Supervisor: Troy Chang



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# Test Report

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LELON ELECTRONICS CORP.

(LELON ELECTRONICS(HUIZHOU) CO., LTD.)

(LELON ELECTRONICS(SUZHOU) CO., LTD.)

147, SEC. 1, GUOGUANG RD., DALI DISTRICT, TAICHUNG, TAIWAN

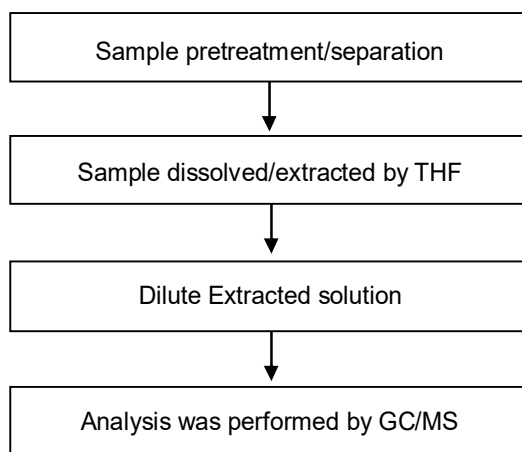
(TAIYANG INDUSTRIAL ZONE, BAIHUA TOWN, HUIDONG COUNTY, HUIZHOU CITY, GUANGDONG, CHINA)

(1220, ZHONGSHAN NORTH RD., WUJIANG ECONOMIC AND TECHNOLOGICAL DEVELOPMENT ZONE SUZHOU CITY, JIANGSU, CHINA)

## Analytical flow chart - Phthalate

- Technician: Yaling Tu
- Supervisor: Troy Chang

【Test method: IEC 62321-8】



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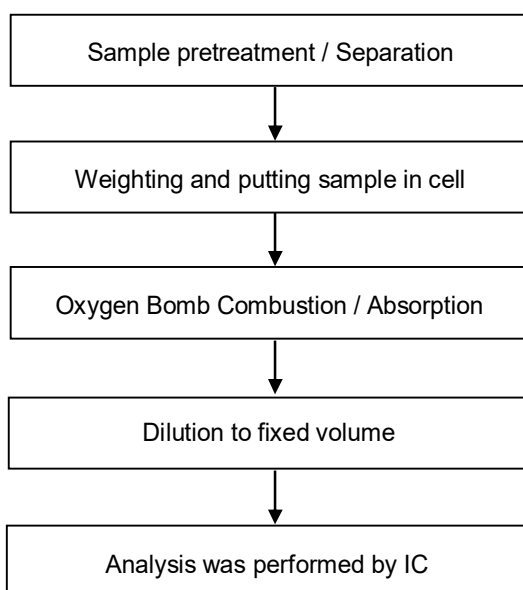
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### Analytical flow chart - Halogen

- Technician: Rita Chen
- Supervisor: Troy Chang



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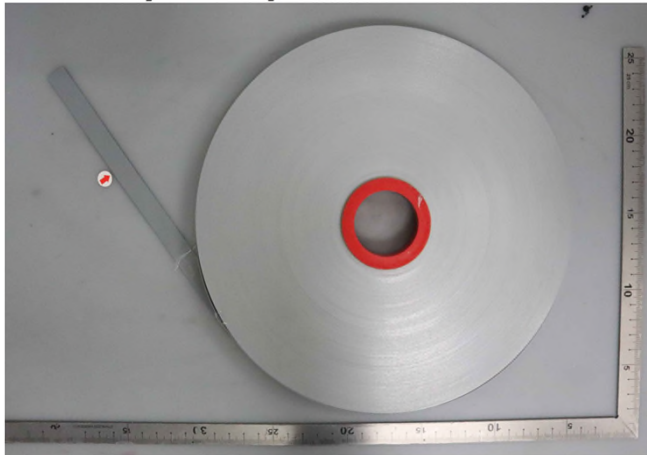
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\* The tested sample / part is marked by an arrow if it's shown on the photo. \*

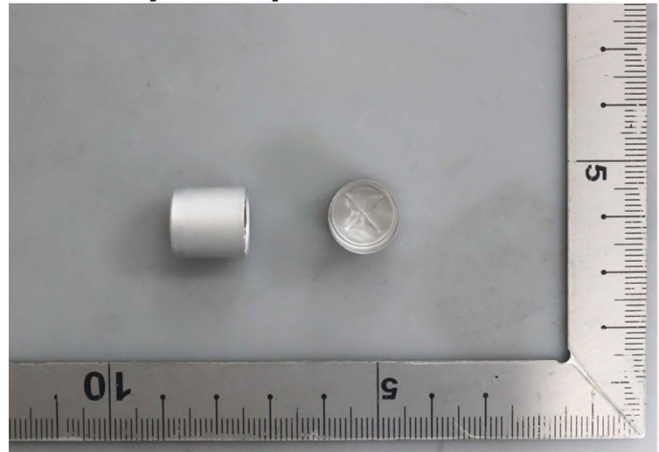
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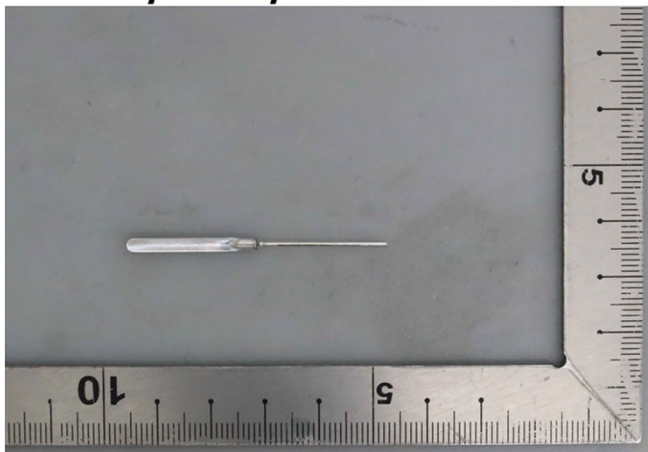
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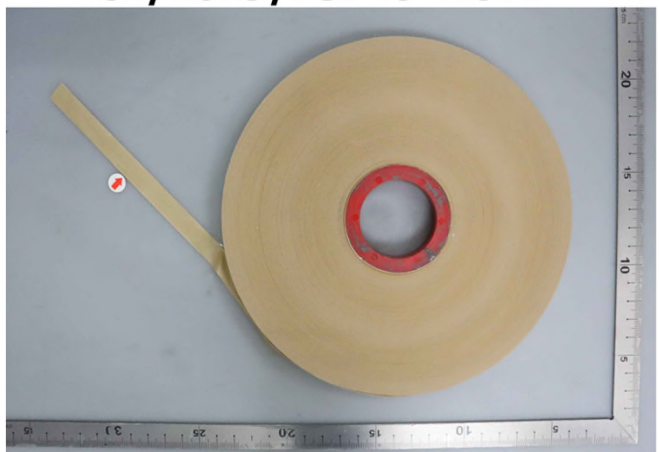
No.3

**CE/2019/73748 NO.3**



No.4

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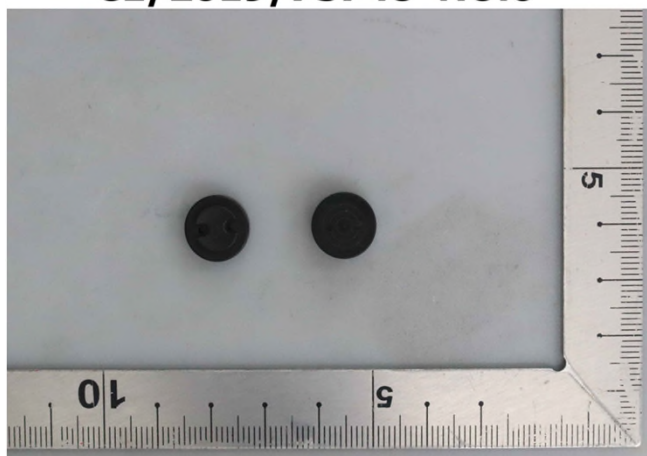
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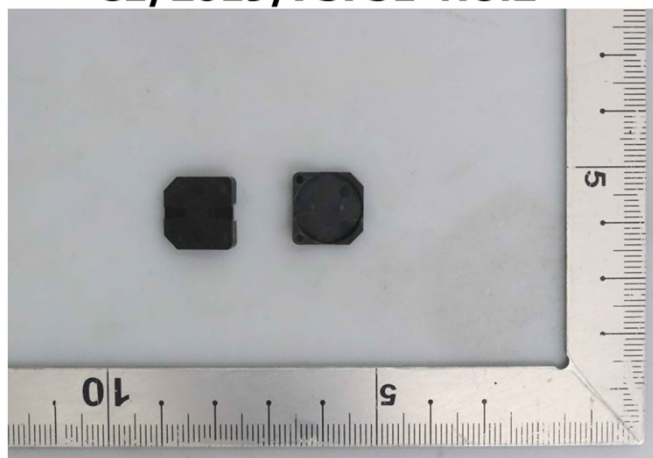
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No.7

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No.8

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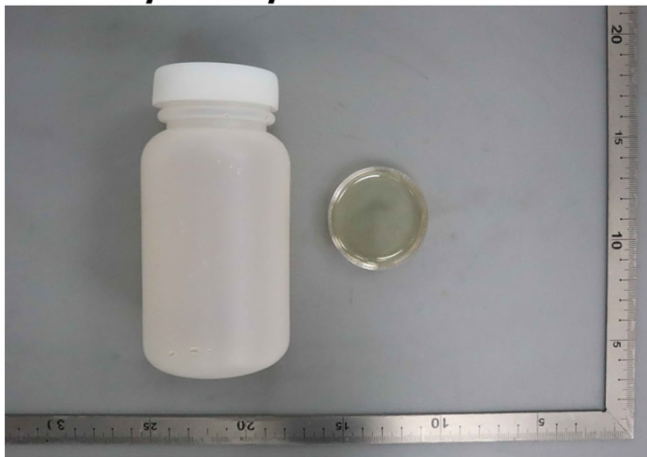
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**\*\* End of Report \*\***

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