

# TEST REPORT

**Report No.: SZ4220729-34581E**

Date: August 23, 2022

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**Astera LED Technology GmbH**  
**Stahlgruberring 36, 81829 Munich, Germany**

Report on the submitted samples said to be:

Sample Description: LightDrop BTB

Brand: ASTERA

Manufacturer: Astera Manufacturing Limited

Manufacturer Address: Bldg. 3, CLT Science & Technology  
Park, No. 7, GanLiliu Road, Jihua subdistrict, Longgang District, Shenzhen,  
P.C.518112.

Tested Style/Item No.: AX3-BTB

Additional Style/ Item No.: AX3-BTB-WT

Remark: As claimed by the material declaration submitted by the client, the material of  
Additional Style/ Item No. are the same as the tested Style/ Item No. . But the  
results only for the tested sample. And the applicant will undertake all  
differences and risk

Sample Receiving Date: July 29,2022

Testing Period: July 29,2022 - August 22,2022

Result: **Please refer to next page(s).**

Signed for and on behalf of

BACL

*Queenie Lee*

Checked by: \_\_\_\_\_  
Queenie Lee

*Lance Lee*

Approved by: \_\_\_\_\_  
Lance Lee

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Summary of Test Result:

**TEST REQUEST**

**CONCLUSION**

A. Two hundred and twenty-four (224) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) regarding Regulation (EC) No 1907/2006 and its amendment directives concerning the REACH

See Remark

According to the specified scope and analytical technique, concentrations of all 224 SVHC (\*=excluded lead (CAS No.:7439-92-1) on Tested parts (6), (13), (40), (57), (61), (82), (83)) are<0.1% in the submitted samples.

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**Result:**

Tested part(s):

- (1) Transparent/black plastic(shell, Light Drop BTB)
- (2) Green PCB with EC and solder(PCB "CT3-243", Light Drop BTB)
- (3) White/golden parts(plug, connecting wire, Light Drop BTB)
- (4) Grey PVC with silvery metal(wire, connecting wire, Light Drop BTB)
- (5) Silvery metal(screw, PCB "CT5-25", Light Drop BTB)
- (6) Golden metal(nut, PCB "CT5-25", Light Drop BTB)
- (7) White parts(socket "J202", PCB "CT5-25", Light Drop BTB)
- (8) Beige parts(socket "P201", PCB "CT5-25", Light Drop BTB)
- (9) Beige parts(socket "P1" holder, PCB "CT5-25", Light Drop BTB)
- (10) Green PCB with EC and solder(PCB "CT5-25", Light Drop BTB)
- (11) Silvery metal(cover, small PCB, PCB "CT5-25", Light Drop BTB)
- (12) Black PCB with EC and solder(small PCB, PCB "CT5-25", Light Drop BTB)
- (13) Golden metal(nut, light source board, Light Drop BTB)
- (14) Silvery metal(screw, light source board, Light Drop BTB)
- (15) Grey brown parts(plug, connecting wire, light source board, Light Drop BTB)
- (16) Red PVC with silvery metal(wire, connecting wire, light source board, Light Drop BTB)
- (17) Translucent plastic(tie, connecting wire, light source board, Light Drop BTB)
- (18) Beige parts(socket, light source board, Light Drop BTB)
- (19) Black/silvery body with EC and solder(light source board, Light Drop BTB)
- (20) Silvery metal(heat sink, light source board, Light Drop BTB)
- (21) White glue(heat dissipation silicone, heat sink, light source board, Light Drop BTB)
- (22) White parts(plug, power wire, battery, Light Drop BTB)
- (23) Black PVC with silvery metal(wire, sensor, battery, Light Drop BTB)
- (24) Black body(sensor, battery, Light Drop BTB)
- (25) White printed black soft plastic(wire jacket, power wire, battery, Light Drop BTB)
- (26) Red soft plastic with silvery metal(wire, power wire, battery, Light Drop BTB)
- (27) Green PCB with EC and solder(PCB, battery, Light Drop BTB)
- (28) Red PVC with silvery metal(wire, PCB, battery, Light Drop BTB)
- (29) Silvery metal(contact plate, battery, Light Drop BTB)
- (30) Black/green printed white plastic(sleeves, contact plate, battery, Light Drop BTB)
- (31) Black printed light purple plastic(shell, battery, Light Drop BTB)

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- (32) Transparent plastic with adhesive(double faced adhesive tape, battery holder, Light Drop BTB)
- (33) Red paper with adhesive(battery holder, Light Drop BTB)
- (34) Transparent golden plastic(tape, battery, Light Drop BTB)
- (35) Black printed blue PVC(sleeves, battery, Light Drop BTB)
- (36) Clear laminated black printed white paper with adhesive(label, sleeves, battery, Light Drop BTB)
- (37) Black EVA with adhesive(pad, sleeves, battery, Light Drop BTB)
- (38) Silvery metal(frame, battery, Light Drop BTB)
- (39) Black parts(switch, Light Drop BTB)
- (40) Silvery parts(charging socket, Light Drop BTB)
- (41) Black PVC(wire jacket, charging socket, Light Drop BTB)
- (42) Red PVC with silvery metal and solder(wire, charging socket, Light Drop BTB)
- (43) White parts(plug, wire, charging socket, Light Drop BTB)
- (44) Black magnet(shell, Light Drop BTB)
- (45) Clear laminated white printed black plastic with adhesive(label, shell, Light Drop BTB)
- (46) Black plastic(cap, screw, shell, Light Drop BTB)
- (47) Silvery metal(screw, shell, Light Drop BTB)
- (48) Black plated silvery metal(handle, Light Drop BTB)
- (49) Black plated silvery metal(screw, handle, Light Drop BTB)
- (50) Black plastic(cap, screw, handle, Light Drop BTB)
- (51) Black plated silvery metal(small gasket ring, screw, handle, Light Drop BTB)
- (52) Black plated silvery metal(big gasket ring, screw, handle, Light Drop BTB)
- (53) Black plated silvery metal(screw holder, handle, Light Drop BTB)
- (54) Black plated silvery metal(fixed frame, handle, Light Drop BTB)
- (55) Black plated silvery metal(nut, fixed frame, handle, Light Drop BTB)
- (56) Black plated silvery metal(gasket ring, fixed frame, handle, Light Drop BTB)
- (57) Silvery metal(pin, two pin round plug, adapter)
- (58) Black plastic(pin holder, two pin round plug, adapter)
- (59) Silvery metal(pin, two pin rectangular plug, adapter)
- (60) Black plastic(pin holder, two pin rectangular plug, adapter)
- (61) Silvery metal(pin, three pin rectangular plug, adapter)
- (62) Black plastic(pin holder, three pin rectangular plug, adapter)
- (63) Black plastic(shell, adapter)
- (64) Clear laminated black printed silvery plastic with adhesive(big label, shell, adapter)
- (65) Clear laminated black printed White paper with adhesive(small label, shell, adapter)

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- (66) Silvery metal(contact plate, shell, adapter)
- (67) Silvery solder(contact plate, shell, adapter)
- (68) Red PVC with silvery metal(wire, PCB, adapter)
- (69) Translucent plastic(pad, shell, adapter)
- (70) Black EVA with adhesive(pad, shell, adapter)
- (71) Red printed white paper(anti-adhesive paper, pad, shell, adapter)
- (72) Clear plastic with adhesive(double faced adhesive tape, pad, shell, adapter)
- (73) Grey plastic(pad, shell, adapter)
- (74) White dry glue(PCB, adapter)
- (75) Silvery parts(capacitor "C1", PCB, adapter)
- (76) Silvery parts(capacitor "C5", PCB, adapter)
- (77) Silvery parts(capacitor "C9", PCB, adapter)
- (78) Silvery parts(capacitor "C10", PCB, adapter)
- (79) Blue body(capacitor "C3", PCB, adapter)
- (80) Blue body(resistor "MOV1", PCB, adapter)
- (81) Black/silvery parts(fuse, PCB, adapter)
- (82) Black/silvery parts(triode "Q1", PCB, adapter)
- (83) Black/silvery parts(triode "Q12", PCB, adapter)
- (84) Yellow/black parts(inductor, PCB, adapter)
- (85) Yellow/black parts(transformer, PCB, adapter)
- (86) Green PCB with EC and solder(PCB, adapter)
- (87) Black PVC(cable holder, adapter)
- (88) Black PVC(cable jacket, adapter)
- (89) Black plastic(sleeves, wire, adapter)
- (90) White PVC with silvery metal(wire, adapter)
- (91) Black PVC with silvery metal(plug, adapter)
- (92) Silvery metal(screw, parts)
- (93) Black soft plastic(stopper, parts)
- (94) Black soft plastic(pad, parts)
- (95) Transparent plastic(pad, parts)
- (96) Translucent plastic(pad, parts)
- (97) Silvery body(battery)

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**A. Two hundred and twenty-four (224) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) regarding Regulation (EC) No 1907/2006 and its amendment directives concerning the REACH**

Test method: With reference to in-house method, Analysis is performed by ICP-AES, UV-VIS, IC, GC-MS, Headspace GC-MS, LC-MS/MS, HPLC-TS-MS.

| Item                                 | Unit  | MDL | Result                                                  |                                      |                                                           |                                                         |                                           |                                                     |
|--------------------------------------|-------|-----|---------------------------------------------------------|--------------------------------------|-----------------------------------------------------------|---------------------------------------------------------|-------------------------------------------|-----------------------------------------------------|
|                                      |       |     | (1)+(58)+(60)<br>+(62)+(63)+<br>(93)+(94)+<br>(95)+(96) | (2)+(10)+(12)<br>+(19)+(27)+<br>(86) | (3)+(7)+(8)+<br>(9)+(15)+(17)<br>+(18)+(21)+<br>(22)+(30) | (4)+(16)+(23)<br>+(25)+(26)+<br>(28)+(35)+<br>(41)+(42) | (5)+(11)+(14)<br>+(20)+(29)+<br>(38)+(47) | (24)+(75)+<br>(76)+(77)+<br>(78)+(79)+<br>(80)+(81) |
| All Tested 224 SVHC in the Candidate | mg/kg | 50  | N.D.                                                    | N.D.                                 | N.D.                                                      | N.D.                                                    | N.D.                                      | N.D.                                                |

| Item                                 | Unit  | MDL | Result                                                    |                                                           |                                        |      |
|--------------------------------------|-------|-----|-----------------------------------------------------------|-----------------------------------------------------------|----------------------------------------|------|
|                                      |       |     | (31)+(32)+(33)+(34)+<br>(36)+(37)+(39)+(43)+<br>(44)+(45) | (46)+(48)+(49)+(50)+<br>(64)+(65)+(69)+(70)+<br>(71)+(72) | (51)+(52)+(53)+(54)+<br>(55)+(56)+(92) | (66) |
| All Tested 224 SVHC in the Candidate | mg/kg | 50  | N.D.                                                      | N.D.                                                      | N.D.                                   | N.D. |

| Item                                 | Unit  | MDL | Result                       |                     |      |      |
|--------------------------------------|-------|-----|------------------------------|---------------------|------|------|
|                                      |       |     | (68)+(87)+(88)+(90)+<br>(91) | (73)+(74)+(84)+(85) | (89) | (97) |
| All Tested 224 SVHC in the Candidate | mg/kg | 50  | N.D.                         | N.D.                | N.D. | N.D. |

| No. | Item                                           | EC No     | Unit  | MDL | Result | Category                                 |
|-----|------------------------------------------------|-----------|-------|-----|--------|------------------------------------------|
|     |                                                |           |       |     | (6)    |                                          |
| 184 | Lead(Pb)                                       | 231-100-4 | mg/kg | 50  | 27138* | Toxic for reproduction<br>(Article 57 c) |
| /   | All the other tested 223 SVHC in the Candidate | /         | mg/kg | /   | N.D.   | /                                        |

| No. | Item                                           | EC No     | Unit  | MDL | Result | Category                                 |
|-----|------------------------------------------------|-----------|-------|-----|--------|------------------------------------------|
|     |                                                |           |       |     | (13)   |                                          |
| 184 | Lead(Pb)                                       | 231-100-4 | mg/kg | 50  | 25233* | Toxic for reproduction<br>(Article 57 c) |
| /   | All the other tested 223 SVHC in the Candidate | /         | mg/kg | /   | N.D.   | /                                        |

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| No. | Item                                           | EC No     | Unit  | MDL | Result | Category                              |
|-----|------------------------------------------------|-----------|-------|-----|--------|---------------------------------------|
|     |                                                |           |       |     | (40)   |                                       |
| 184 | Lead(Pb)                                       | 231-100-4 | mg/kg | 50  | 15247* | Toxic for reproduction (Article 57 c) |
| /   | All the other tested 223 SVHC in the Candidate | /         | mg/kg | /   | N.D.   | /                                     |

| No. | Item                                           | EC No     | Unit  | MDL | Result | Category                              |
|-----|------------------------------------------------|-----------|-------|-----|--------|---------------------------------------|
|     |                                                |           |       |     | (57)   |                                       |
| 184 | Lead(Pb)                                       | 231-100-4 | mg/kg | 50  | 23895* | Toxic for reproduction (Article 57 c) |
| /   | All the other tested 223 SVHC in the Candidate | /         | mg/kg | /   | N.D.   | /                                     |

| No. | Item                                           | EC No     | Unit  | MDL | Result | Category                              |
|-----|------------------------------------------------|-----------|-------|-----|--------|---------------------------------------|
|     |                                                |           |       |     | (59)   |                                       |
| 184 | Lead(Pb)                                       | 231-100-4 | mg/kg | 50  | 87     | Toxic for reproduction (Article 57 c) |
| /   | All the other tested 223 SVHC in the Candidate | /         | mg/kg | /   | N.D.   | /                                     |

| No. | Item                                           | EC No     | Unit  | MDL | Result | Category                              |
|-----|------------------------------------------------|-----------|-------|-----|--------|---------------------------------------|
|     |                                                |           |       |     | (61)   |                                       |
| 184 | Lead(Pb)                                       | 231-100-4 | mg/kg | 50  | 16811* | Toxic for reproduction (Article 57 c) |
| /   | All the other tested 223 SVHC in the Candidate | /         | mg/kg | /   | N.D.   | /                                     |

| No. | Item                                           | EC No     | Unit  | MDL | Result | Category                              |
|-----|------------------------------------------------|-----------|-------|-----|--------|---------------------------------------|
|     |                                                |           |       |     | (67)   |                                       |
| 184 | Lead(Pb)                                       | 231-100-4 | mg/kg | 50  | 93     | Toxic for reproduction (Article 57 c) |
| /   | All the other tested 223 SVHC in the Candidate | /         | mg/kg | /   | N.D.   | /                                     |

| No. | Item                                           | EC No     | Unit  | MDL | Result | Category                              |
|-----|------------------------------------------------|-----------|-------|-----|--------|---------------------------------------|
|     |                                                |           |       |     | (82)   |                                       |
| 184 | Lead(Pb)                                       | 231-100-4 | mg/kg | 50  | 2872*  | Toxic for reproduction (Article 57 c) |
| /   | All the other tested 223 SVHC in the Candidate | /         | mg/kg | /   | N.D.   | /                                     |

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| No. | Item                                           | EC No     | Unit  | MDL | Result | Category                              |
|-----|------------------------------------------------|-----------|-------|-----|--------|---------------------------------------|
|     |                                                |           |       |     | (83)   |                                       |
| 184 | Lead(Pb)                                       | 231-100-4 | mg/kg | 50  | 2944*  | Toxic for reproduction (Article 57 c) |
| /   | All the other tested 223 SVHC in the Candidate | /         | mg/kg | /   | N.D.   | /                                     |

## Full list of tested SVHC:

| No. | Item                                                              | CAS No.                                                            | EC No.              | Unit  | MDL | Category                                                                                                                           |
|-----|-------------------------------------------------------------------|--------------------------------------------------------------------|---------------------|-------|-----|------------------------------------------------------------------------------------------------------------------------------------|
| 1   | Anthracene(ANT)                                                   | 120-12-7                                                           | 204-371-1           | mg/kg | 50  | PBT                                                                                                                                |
| 2   | 4,4' -diaminodiphenylmethane (9#)                                 | 101-77-9                                                           | 202-974-4           | mg/kg | 50  | CMR                                                                                                                                |
| 3   | Dibutyl Phthalate(DBP)                                            | 84-74-2                                                            | 201-557-4           | mg/kg | 50  | CMR                                                                                                                                |
| 4   | Cobalt Dichloride(CoCl <sub>2</sub> )*                            | 7646-79-9                                                          | 231-589-4           | mg/kg | 50  | CMR                                                                                                                                |
| 5   | Diarsenic Pentaoxide(As <sub>2</sub> O <sub>5</sub> )*            | 1303-28-2                                                          | 215-116-9           | mg/kg | 50  | CMR                                                                                                                                |
| 6   | Diarsenic Trioxide(As <sub>2</sub> O <sub>3</sub> )*              | 1327-53-3                                                          | 215-481-4           | mg/kg | 50  | CMR                                                                                                                                |
| 7   | Sodium Dichromate, Dihydrate*                                     | 7789-12-0;<br>10588-01-9                                           | 234-190-3           | mg/kg | 50  | CMR                                                                                                                                |
| 8   | 5-tert-butyl-2,4,6-trinitro-m-xylene(musk xylene)                 | 81-15-2                                                            | 201-329-4           | mg/kg | 50  | vPvB                                                                                                                               |
| 9   | Bis-(2-ethylhexyl) Phthalate (DEHP)                               | 117-81-7                                                           | 204-211-0           | mg/kg | 50  | Equivalent level of concern having probable serious effects to the environment (Article 57 f);Toxic for reproduction (article 57c) |
| 10  | Hexabromocyclododecane (HBCDD)                                    | 25637-99-4 &<br>3194-55-6<br>(134237-51-7,134237-50-6,134237-52-8) | 247-148-4;221-695-9 | mg/kg | 50  | PBT                                                                                                                                |
| 11  | Alkanes, C10-13, chloro(Short Chain Chlorinated Paraffins) (SCCP) | 85535-84-8                                                         | 287-476-5           | mg/kg | 50  | PBT                                                                                                                                |
| 12  | Bis(tributyltin)oxide(TBTO)**                                     | 56-35-9                                                            | 200-268-0           | mg/kg | 50  | PBT                                                                                                                                |
| 13  | Lead Hydrogen Arsenate*                                           | 7784-40-9                                                          | 232-064-2           | mg/kg | 50  | CMR                                                                                                                                |
| 14  | Benzyl Butyl Phthalate(BBP)                                       | 85-68-7                                                            | 201-622-7           | mg/kg | 50  | CMR                                                                                                                                |
| 15  | Triethyl Arsenate*                                                | 15606-95-8                                                         | 427-700-2           | mg/kg | 50  | CMR                                                                                                                                |
| 16  | Anthracene oil***                                                 | 90640-80-5                                                         | 292-602-7           | mg/kg | 50  | PBT                                                                                                                                |
| 17  | Anthracene oil, anthracene paste, distn. lights***                | 91995-17-4                                                         | 295-278-5           | mg/kg | 50  | PBT                                                                                                                                |



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| No. | Item                                                                        | CAS No.                        | EC No.               | Unit  | MDL | Category |
|-----|-----------------------------------------------------------------------------|--------------------------------|----------------------|-------|-----|----------|
| 18  | Anthracene oil, anthracene paste, anthracene fraction***                    | 91995-15-2                     | 295-275-9            | mg/kg | 50  | PBT      |
| 19  | Anthracene oil, Anthracene-low***                                           | 90640-82-7                     | 292-604-8            | mg/kg | 50  | PBT      |
| 20  | Anthracene oil, anthracene paste***                                         | 90640-81-6                     | 292-603-2            | mg/kg | 50  | PBT      |
| 21  | Diisobutyl phthalate(DIBP)                                                  | 84-69-5                        | 201-553-2            | mg/kg | 50  | CMR      |
| 22  | 2,4-Dinitrotoluene                                                          | 121-14-2                       | 204-450-0            | mg/kg | 50  | CMR      |
| 23  | coal tar pitch, high temperature***                                         | 65996-93-2                     | 266-028-2            | mg/kg | 50  | PBT      |
| 24  | tris(2-chloroethyl)phosphate                                                | 115-96-8                       | 204-118-5            | mg/kg | 50  | CMR      |
| 25  | Lead sulfochromate yellow (C.I. Pigment Yellow 34)                          | 1344-37-2                      | 215-693-7            | mg/kg | 50  | CMR      |
| 26  | C.I.Pigment Red 104                                                         | 12656-85-8                     | 235-759-9            | mg/kg | 50  | CMR      |
| 27  | Lead chromate: chrome yellow                                                | 7758-97-6                      | 231-846-0            | mg/kg | 50  | CMR      |
| 28  | Acrylamide                                                                  | 79-06-1                        | 201-173-7            | mg/kg | 50  | CMR      |
| 29  | Trichloroethylene                                                           | 79-01-6                        | 201-167-4            | mg/kg | 50  | CMR      |
| 30  | Boric acid                                                                  | 10043-35-3;<br>11113-50-1      | 233-139-2; 234-343-4 | mg/kg | 50  | CMR      |
| 31  | Disodium tetraborate, anhydrous*                                            | 1330-43-4;12179-04-3;1303-96-4 | 215-540-4            | mg/kg | 50  | CMR      |
| 32  | Tetraboron disodium heptaoxide, hydrate*                                    | 12267-73-1                     | 235-541-3            | mg/kg | 50  | CMR      |
| 33  | Sodium chromate*                                                            | 7775-11-3                      | 231-889-5            | mg/kg | 50  | CMR      |
| 34  | Potassium chromate*                                                         | 7789-00-6                      | 232-140-5            | mg/kg | 50  | CMR      |
| 35  | Ammonium dichromate*                                                        | 7789-09-5                      | 232-143-1            | mg/kg | 50  | CMR      |
| 36  | Potassium dichromate*                                                       | 7778-50-9                      | 231-906-6            | mg/kg | 50  | CMR      |
| 37  | Cobalt(II) sulfate*                                                         | 10124-43-3                     | 233-334-2            | mg/kg | 50  | CMR      |
| 38  | Cobalt(II) dinitrate*                                                       | 10141-05-6                     | 233-402-1            | mg/kg | 50  | CMR      |
| 39  | Cobalt(II) carbonate*                                                       | 513-79-1                       | 208-169-4            | mg/kg | 50  | CMR      |
| 40  | Cobalt(II) diacetate*                                                       | 71-48-7                        | 200-755-8            | mg/kg | 50  | CMR      |
| 41  | 2-Methoxyethanol                                                            | 109-86-4                       | 203-713-7            | mg/kg | 50  | CMR      |
| 42  | 2-Ethoxyethanol                                                             | 110-80-5                       | 203-804-1            | mg/kg | 50  | CMR      |
| 43  | Chromium trioxide*                                                          | 1333-82-0                      | 215-607-8            | mg/kg | 50  | CMR      |
| 44  | Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid* | 7738-94-5;<br>13530-68-2       | 231-801-5;236-881-5  | mg/kg | 50  | CMR      |

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| No. | Item                                                                                | CAS No.                | EC No.    | Unit  | MDL | Category                                                                       |
|-----|-------------------------------------------------------------------------------------|------------------------|-----------|-------|-----|--------------------------------------------------------------------------------|
| 45  | 2-Ethoxyethylacetate                                                                | 111-15-9               | 203-839-2 | mg/kg | 50  | CMR                                                                            |
| 46  | strontium chromate*                                                                 | 7789-06-2              | 232-142-6 | mg/kg | 50  | CRM                                                                            |
| 47  | 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters(DHNUP)      | 68515-42-4             | 271-084-6 | mg/kg | 50  | CMR                                                                            |
| 48  | Hydrazine                                                                           | 7803-57-8;<br>302-01-2 | 206-114-9 | mg/kg | 50  | CMR                                                                            |
| 49  | 1-methyl-2-pyrrolidone(NMP)                                                         | 872-50-4               | 212-828-1 | mg/kg | 50  | CMR                                                                            |
| 50  | 1,2,3-Trichloropropane                                                              | 96-18-4                | 202-486-1 | mg/kg | 50  | CMR                                                                            |
| 51  | 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich(DIHP(rich C7)) | 71888-89-6             | 276-158-1 | mg/kg | 50  | CMR                                                                            |
| 52  | Zirconia Aluminosilicate Refractory Ceramic Fibres****                              | ---                    | ---       | mg/kg | 50  | CMR                                                                            |
| 53  | Calcium arsenate*                                                                   | 7778-44-1              | 231-904-5 | mg/kg | 50  | CMR                                                                            |
| 54  | Bis(2-methoxy ethyl)ether                                                           | 111-96-6               | 203-924-4 | mg/kg | 50  | CMR                                                                            |
| 55  | Aluminosilicate Refractory Ceramic Fibres(RCF)****                                  | ---                    | ---       | mg/kg | 50  | CMR                                                                            |
| 56  | Potassium hydroxyoctaoxodizincatedichromate*                                        | 11103-86-9             | 234-329-8 | mg/kg | 50  | CMR                                                                            |
| 57  | Lead dipicrate                                                                      | 6477-64-1              | 229-335-2 | mg/kg | 50  | CMR                                                                            |
| 58  | N,N-Dimethylacetamide                                                               | 127-19-5               | 204-826-4 | mg/kg | 50  | CMR                                                                            |
| 59  | Arsenic acid                                                                        | 7778-39-4              | 231-901-9 | mg/kg | 50  | CMR                                                                            |
| 60  | 2-Methoxyaniline; o-Anisidine (21#)                                                 | 90-04-0                | 201-963-1 | mg/kg | 50  | CMR                                                                            |
| 61  | Trilead diarsenate*                                                                 | 3687-31-8              | 222-979-5 | mg/kg | 50  | CMR                                                                            |
| 62  | 1,2-Dichloroethane                                                                  | 107-06-2               | 203-458-1 | mg/kg | 50  | CMR                                                                            |
| 63  | Pentazinc chromate octahydroxide                                                    | 49663-84-5             | 256-418-0 | mg/kg | 50  | CMR                                                                            |
| 64  | 4-(1,1,3,3-tetramethylbutyl) phenol                                                 | 140-66-9               | 205-426-2 | mg/kg | 50  | Equivalent level of concern having probable serious effects to the environment |
| 65  | Formaldehyde, oligomeric reaction products with aniline                             | 25214-70-4             | 500-036-1 | mg/kg | 50  | CMR                                                                            |
| 66  | Bis(2-methoxyethyl) Phthalate (DMEP)                                                | 117-82-8               | 204-212-6 | mg/kg | 50  | CMR                                                                            |
| 67  | Lead diazide, Lead azide*                                                           | 13424-46-9             | 236-542-1 | mg/kg | 50  | CMR                                                                            |
| 68  | Lead styphnate*                                                                     | 15245-44-0             | 239-290-0 | mg/kg | 50  | CMR                                                                            |

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| No. | Item                                                                                                                                            | CAS No.    | EC No.    | Unit  | MDL | Category |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|-------|-----|----------|
| 69  | 2,2'-dichloro-4,4'-methylenedianiline                                                                                                           | 101-14-4   | 202-918-9 | mg/kg | 50  | CMR      |
| 70  | Phenolphthalein                                                                                                                                 | 77-09-8    | 201-004-7 | mg/kg | 50  | CMR      |
| 71  | Dichromium tris(chromate)*                                                                                                                      | 24613-89-6 | 246-356-2 | mg/kg | 50  | CMR      |
| 72  | 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)                                                                                               | 112-49-2   | 203-977-3 | mg/kg | 50  | CMR      |
| 73  | 1,2-dimethoxyethane; ethylene glycol dimethyl ether(EGDME)                                                                                      | 110-71-4   | 203-794-9 | mg/kg | 50  | CMR      |
| 74  | Diboron trioxide*                                                                                                                               | 1303-86-2  | 215-125-8 | mg/kg | 50  | CMR      |
| 75  | Formamide(FMA)                                                                                                                                  | 75-12-7    | 200-842-0 | mg/kg | 50  | CMR      |
| 76  | Lead(II) bis(methanesulfonate)*                                                                                                                 | 17570-76-2 | 401-750-5 | mg/kg | 50  | CMR      |
| 77  | 1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)                                                                              | 2451-62-9  | 219-514-3 | mg/kg | 50  | CMR      |
| 78  | β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)                                                         | 59653-74-6 | 423-400-0 | mg/kg | 50  | CMR      |
| 79  | 4,4'-Bis(dimethylamino)benzophenone(Michler's ketone)                                                                                           | 90-94-8    | 202-027-5 | mg/kg | 50  | CMR      |
| 80  | N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)                                                                                  | 101-61-1   | 202-959-2 | mg/kg | 50  | CMR      |
| 81  | [4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Violet 3)*****                   | 548-62-9   | 208-953-6 | mg/kg | 50  | CMR      |
| 82  | [4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene] cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)***** | 2580-56-5  | 219-943-6 | mg/kg | 50  | CMR      |
| 83  | α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino) naphthalene-1 -methanol(C.I. Solvent Blue 4)*****                                              | 6786-83-0  | 229-851-8 | mg/kg | 50  | CMR      |
| 84  | 4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol*****                                                                                    | 561-41-1   | 209-218-2 | mg/kg | 50  | CMR      |
| 85  | Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)                                                                                 | 1163-19-5  | 214-604-9 | mg/kg | 50  | PBT      |

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| No. | Item                                                                                                                                                                                                                                                                                           | CAS No.                                                 | EC No.                                  | Unit  | MDL | Category                                                                       |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|-----------------------------------------|-------|-----|--------------------------------------------------------------------------------|
| 86  | Pentacosafuorotridecanoic acid(EGDME)                                                                                                                                                                                                                                                          | 72629-94-8                                              | 276-745-2                               | mg/kg | 50  | vPvB                                                                           |
| 87  | Tricosafuorododecanoic acid                                                                                                                                                                                                                                                                    | 307-55-1                                                | 206-203-2                               | mg/kg | 50  | vPvB                                                                           |
| 88  | Henicosafuoroundecanoic acid                                                                                                                                                                                                                                                                   | 2058-94-8                                               | 218-165-4                               | mg/kg | 50  | vPvB                                                                           |
| 89  | Heptacosafuorotetradecanoic acid                                                                                                                                                                                                                                                               | 376-06-7                                                | 206-803-4                               | mg/kg | 50  | vPvB                                                                           |
| 90  | 4-(1,1,3,3-tetramethylbutyl) phenol, ethoxylated - covering well-defined substances and UVCB substances, polymers and homologues                                                                                                                                                               | ---                                                     | ---                                     | mg/kg | 50  | Equivalent level of concern having probable serious effects to the environment |
| 91  | 4-Nonylphenol, branched and linear - substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof             | ---                                                     | ---                                     | mg/kg | 50  | Equivalent level of concern having probable serious effects to the environment |
| 92  | Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))                                                                                                                                                                                                                                              | 123-77-3                                                | 204-650-8                               | mg/kg | 50  | Equivalent level of concern having probable serious effects to the environment |
| 93  | Cyclohexane-1,2-dicarboxylic anhydride [1] cis-cyclohexane-1,2-dicarboxylic anhydride [2] trans-cyclohexane-1,2-dicarboxylic anhydride [3] [The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry | 85-42-7;<br>13149-00-3;<br>14166-21-3                   | 201-604-9;236-086-3;238-009-9           | mg/kg | 50  | Equivalent level of concern having probable serious effects to the environment |
| 94  | Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride                                                                                                                                            | 25550-51-0;<br>19438-60-9;<br>48122-14-1;<br>57110-29-9 | 247-094-1;243-072-0;256-356-4;260-566-1 | mg/kg | 50  | Equivalent level of concern having probable serious effects to the environment |
| 95  | Methoxyacetic acid                                                                                                                                                                                                                                                                             | 625-45-6                                                | 210-894-6                               | mg/kg | 50  | CMR                                                                            |
| 96  | 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear(DPIP)                                                                                                                                                                                                                         | 84777-06-0                                              | 284-032-2                               | mg/kg | 50  | CMR                                                                            |
| 97  | Diisopentylphthalate(DIPP)                                                                                                                                                                                                                                                                     | 605-50-5                                                | 210-088-4                               | mg/kg | 50  | CMR                                                                            |

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|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------|-------|-----|----------|
| 98  | N-pentyl-iso-pentyl Phthalate (PIPP)                                                                                                                                                                                                                                                                                                                         | 776297-69-9 | ---       | mg/kg | 50  | CMR      |
| 99  | 1,2-Diethoxyethane                                                                                                                                                                                                                                                                                                                                           | 629-14-1    | 211-076-1 | mg/kg | 50  | CMR      |
| 100 | N,N-dimethylformamide(DMF)                                                                                                                                                                                                                                                                                                                                   | 68-12-2     | 200-679-5 | mg/kg | 50  | CMR      |
| 101 | Dibutyltin dichloride(DBTC)                                                                                                                                                                                                                                                                                                                                  | 683-18-1    | 211-670-0 | mg/kg | 50  | CMR      |
| 102 | Acetic acid, lead salt, basic*                                                                                                                                                                                                                                                                                                                               | 51404-69-4  | 257-175-3 | mg/kg | 50  | CMR      |
| 103 | Basic lead carbonate (trilead bis(carbonate)dihydroxide)*                                                                                                                                                                                                                                                                                                    | 1319-46-6   | 215-290-6 | mg/kg | 50  | CMR      |
| 104 | Lead oxide sulfate (basic lead sulfate)*                                                                                                                                                                                                                                                                                                                     | 12036-76-9  | 234-853-7 | mg/kg | 50  | CMR      |
| 105 | [Phthalato(2-)]dioxotrilead (dibasic lead phthalate)*                                                                                                                                                                                                                                                                                                        | 69011-06-9  | 273-688-5 | mg/kg | 50  | CMR      |
| 106 | Dioxobis(stearato)trilead*                                                                                                                                                                                                                                                                                                                                   | 12578-12-0  | 235-702-8 | mg/kg | 50  | CMR      |
| 107 | Fatty acids, C16-18, lead salts*                                                                                                                                                                                                                                                                                                                             | 91031-62-8  | 292-966-7 | mg/kg | 50  | CMR      |
| 108 | Lead bis(tetrafluoroborate)*                                                                                                                                                                                                                                                                                                                                 | 13814-96-5  | 237-486-0 | mg/kg | 50  | CMR      |
| 109 | Lead cyanamidate*                                                                                                                                                                                                                                                                                                                                            | 20837-86-9  | 244-073-9 | mg/kg | 50  | CMR      |
| 110 | Lead dinitrate*                                                                                                                                                                                                                                                                                                                                              | 10099-74-8  | 233-245-9 | mg/kg | 50  | CMR      |
| 111 | Lead oxide (lead monoxide)*                                                                                                                                                                                                                                                                                                                                  | 1317-36-8   | 215-267-0 | mg/kg | 50  | CMR      |
| 112 | Lead tetroxide (orange lead)*                                                                                                                                                                                                                                                                                                                                | 1314-41-6   | 215-235-6 | mg/kg | 50  | CMR      |
| 113 | Lead titanium trioxide*                                                                                                                                                                                                                                                                                                                                      | 12060-00-3  | 235-038-9 | mg/kg | 50  | CMR      |
| 114 | Lead Titanium Zirconium Oxide*                                                                                                                                                                                                                                                                                                                               | 12626-81-2  | 235-727-4 | mg/kg | 50  | CMR      |
| 115 | Pentalead tetraoxide sulphate*                                                                                                                                                                                                                                                                                                                               | 12065-90-6  | 235-067-7 | mg/kg | 50  | CMR      |
| 116 | Pyrochlore, antimony lead yellow C.I.*                                                                                                                                                                                                                                                                                                                       | 8012-00-8   | 232-382-1 | mg/kg | 50  | CMR      |
| 117 | Silicic acid (H <sub>2</sub> SiO <sub>5</sub> ), barium salt (1:1), lead-doped, [with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD); the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008] | 68784-75-8  | 272-271-5 | mg/kg | 50  | CMR      |
| 118 | Silicic acid, lead salt*                                                                                                                                                                                                                                                                                                                                     | 11120-22-2  | 234-363-3 | mg/kg | 50  | CMR      |

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| 119 | Sulfurous acid, lead salt, dibasic*                | 62229-08-7  | 263-467-1 | mg/kg | 50  | CMR      |
| 120 | Tetraethyllead*                                    | 78-00-2     | 201-075-4 | mg/kg | 50  | CMR      |
| 121 | Tetralead trioxide sulphate*                       | 12202-17-4  | 235-380-9 | mg/kg | 50  | CMR      |
| 122 | Trilead dioxide phosphonate*                       | 12141-20-7  | 235-252-2 | mg/kg | 50  | CMR      |
| 123 | Furan                                              | 110-00-9    | 203-727-3 | mg/kg | 50  | CMR      |
| 124 | Propylene oxide; 1,2-epoxypropane; methyloxirane   | 75-56-9     | 200-879-2 | mg/kg | 50  | CMR      |
| 125 | Diethyl sulfate                                    | 64-67-5     | 200-589-6 | mg/kg | 50  | CMR      |
| 126 | Dimethyl sulfate                                   | 77-78-1     | 201-058-1 | mg/kg | 50  | CMR      |
| 127 | 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine | 143860-04-2 | 421-150-7 | mg/kg | 50  | CMR      |
| 128 | Dinoseb                                            | 88-85-7     | 201-861-7 | mg/kg | 50  | CMR      |
| 129 | 4,4'-methylenedi-o-toluidine                       | 838-88-0    | 212-658-8 | mg/kg | 50  | CMR      |
| 130 | 4,4'-oxydianiline and its salts                    | 101-80-4    | 202-977-0 | mg/kg | 50  | CMR      |
| 131 | 4-Aminoazobenzene; 4-Phenylazoaniline              | 60-09-3     | 200-453-6 | mg/kg | 50  | CMR      |
| 132 | 4-methyl-m-phenylenediamine (2,4-toluene-diamine)  | 95-80-7     | 202-453-1 | mg/kg | 50  | CMR      |
| 133 | 6-methoxy-m-toluidine (p-cresidine)                | 120-71-8    | 204-419-1 | mg/kg | 50  | CMR      |
| 134 | Biphenyl-4-ylamine                                 | 92-67-1     | 202-177-1 | mg/kg | 50  | CMR      |
| 135 | o-aminoazotoluene                                  | 97-56-3     | 202-591-2 | mg/kg | 50  | CMR      |
| 136 | o-Toluidine                                        | 95-53-4     | 202-429-0 | mg/kg | 50  | CMR      |
| 137 | N-Methylacetamide                                  | 79-16-3     | 201-182-6 | mg/kg | 50  | CMR      |
| 138 | 1-bromopropane; n-propyl bromide                   | 106-94-5    | 203-445-0 | mg/kg | 50  | CMR      |
| 139 | Cadmium(Cd)                                        | 7440-43-9   | 231-152-8 | mg/kg | 50  | CMR      |
| 140 | Cadmium oxide*                                     | 1306-19-0   | 215-146-2 | mg/kg | 50  | CMR      |
| 141 | Ammonium pentadecafluorooctanoate (APFO)           | 3825-26-1   | 223-320-4 | mg/kg | 50  | PBT      |
| 142 | Pentadecafluorooctanoic acid (PFOA)                | 335-67-1    | 206-397-9 | mg/kg | 50  | PBT      |
| 143 | Dipentyl phthalate(DPP)                            | 131-18-0    | 205-017-9 | mg/kg | 50  | PBT      |

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| No. | Item                                                                                                                                                                                                                                                                                                                                | CAS No.                   | EC No.               | Unit  | MDL | Category                                                                                          |
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| 144 | 4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof] | ---                       | ---                  | mg/kg | 50  | Equivalent level of concern having probable serious effects to the environment                    |
| 145 | Cadmium sulphide*                                                                                                                                                                                                                                                                                                                   | 1306-23-6                 | 215-147-8            | mg/kg | 50  | Equivalent level of concern having probable serious effects to the environment                    |
| 146 | Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)                                                                                                                                                                                                                          | 1937-37-7                 | 217-710-3            | mg/kg | 50  | CMR                                                                                               |
| 147 | Dihexyl phthalate                                                                                                                                                                                                                                                                                                                   | 84-75-3                   | 201-559-5            | mg/kg | 50  | PBT                                                                                               |
| 148 | Imidazolidine-2-thione(2-imidazoline-2-thiol)                                                                                                                                                                                                                                                                                       | 96-45-7                   | 202-506-9            | mg/kg | 50  | PBT                                                                                               |
| 149 | Triethyl phosphate(TXP)                                                                                                                                                                                                                                                                                                             | 25155-23-1                | 246-677-8            | mg/kg | 50  | PBT                                                                                               |
| 150 | Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)                                                                                                                                                                                                                          | 573-58-0                  | 209-358-4            | mg/kg | 50  | CMR                                                                                               |
| 151 | Lead di(acetate)*                                                                                                                                                                                                                                                                                                                   | 301-04-2                  | 206-104-4            | mg/kg | 50  | PBT                                                                                               |
| 152 | Sodium peroxometaborate*                                                                                                                                                                                                                                                                                                            | 7632-04-4                 | 231-556-4            | mg/kg | 50  | Toxic for reproduction                                                                            |
| 153 | Cadmium chloride*                                                                                                                                                                                                                                                                                                                   | 10108-64-2                | 233-296-7            | mg/kg | 50  | CMR<br>Equivalent level of concern having probable serious effects to human health (Article 57 f) |
| 154 | 1,2-Benzenedicarboxylic Acid, dihexyl ester, branched and linear(DIHP)                                                                                                                                                                                                                                                              | 68515-50-4                | 271-093-5            | mg/kg | 50  | Toxic for reproduction                                                                            |
| 155 | Sodium perborate; perboric acid, sodium salt*                                                                                                                                                                                                                                                                                       | ---                       | 239-172-9; 234-390-0 | mg/kg | 50  | Toxic for reproduction                                                                            |
| 156 | Cadmium fluoride*                                                                                                                                                                                                                                                                                                                   | 7790-79-6                 | 232-222-0            | mg/kg | 50  | CMR, Equivalent level of concern having probable serious effects to human health (Article 57 f)   |
| 157 | Cadmium sulphate*                                                                                                                                                                                                                                                                                                                   | 10124-36-4;<br>31119-53-6 | 233-331-6            | mg/kg | 50  | CMR, Equivalent level of concern having probable serious effects to human health (Article 57 f)   |



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| No. | Item                                                                                                                                                                                                                                                          | CAS No.                               | EC No.              | Unit  | MDL | Category                                                 |
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| 158 | 2-benzotriazol-2-yl-4, 6-di-tert-butylphenol (UV-320)                                                                                                                                                                                                         | 3846-71-7                             | 223-346-6           | mg/kg | 50  | PBT (Article 57 d); vPvB (Article 57 e)                  |
| 159 | 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol ( UV-328 )                                                                                                                                                                                                    | 25973-55-1                            | 247-384-8           | mg/kg | 50  | PBT (Article 57 d);vPvB (Article 57 e)                   |
| 160 | 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate(DOTE)                                                                                                                                                                         | 15571-58-1                            | 239-622-4           | mg/kg | 50  | Toxic for reproduction (Article 57 c)                    |
| 161 | reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4- [[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE) | ---                                   | ---                 | mg/kg | 50  | Toxic for reproduction (Article 57 c)                    |
| 162 | 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate(EC No. 201-559-5)                                                                                | 68515-51-5;<br>68648-93-1             | 271-094-0;272-013-1 | mg/kg | 50  | Toxic for reproduction (Article 57 c)                    |
| 163 | 5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]                           | ---                                   | ---                 | mg/kg | 50  | vPvB(Article 57e)                                        |
| 164 | Nitrobenzene                                                                                                                                                                                                                                                  | 98-95-3                               | 202-716-0           | mg/kg | 50  | Toxic for reproduction (Article 57 c)                    |
| 165 | 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)                                                                                                                                                                                                | 3864-99-1                             | 223-383-8           | mg/kg | 50  | vPvB (Article 57 e)                                      |
| 166 | 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol(UV-350)                                                                                                                                                                                           | 36437-37-3                            | 253-037-1           | mg/kg | 50  | vPvB (Article 57 e)                                      |
| 167 | 1,3-Propane sultone                                                                                                                                                                                                                                           | 1120-71-4                             | 214-317-9           | mg/kg | 50  | Carcinogenic(Article 57 a)                               |
| 168 | Perfluorononan-1-oic-acid and its sodium and ammonium salts                                                                                                                                                                                                   | 375-95-1;<br>21049-39-8;<br>4149-60-4 | 206-801-3           | mg/kg | 50  | Toxic for reproduction (Article 57 c) PBT (Article 57 d) |



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| 169 | Benzo[def]chrysene (Benzo[a]pyrene)                                                                                                                                                                                                                                                               | 50-32-8                              | 200-028-5             | mg/kg | 50  | Carcinogenic (Article 57 a)<br>Mutagenic (Article 57 b) Toxic for reproduction (Article 57 c) PBT (Article 57 d) vPvB (Article 57 e)                               |
| 170 | p-(1,1-dimethylpropyl)phenol (PTAP)                                                                                                                                                                                                                                                               | 80-46-6                              | 201-280-9             | mg/kg | 50  | Equivalent level of concern having probable serious effects to environment (Article 57 f)                                                                          |
| 171 | Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts                                                                                                                                                                                                                              | 335-76-2;<br>3830-45-3;<br>3108-42-7 | 206-400-3;-221-470-5; | mg/kg | 50  | Toxic for reproduction (Article 57c) PBT (Article 57d)                                                                                                             |
| 172 | 4-heptylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof] | ---                                  | ---                   | mg/kg | 50  | Endocrine disrupting properties (Article 57(f) - environment)                                                                                                      |
| 173 | 4,4' -isopropylidenediphenol (bisphenol A; BPA)                                                                                                                                                                                                                                                   | 80-05-7                              | 201-245-8             | mg/kg | 50  | Toxic for reproduction (Article 57c) Endocrine disrupting properties (Article 57(f) - environment) Endocrine disrupting properties (Article 57 (f) - human health) |
| 174 | Perfluorohexane-1-sulphonic acid and its salts(PFHxS)                                                                                                                                                                                                                                             | ---                                  | ---                   | mg/kg | 50  | vPvB (Article 57e)                                                                                                                                                 |
| 175 | Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)                                                                                                                                                                             | ---                                  | ---                   | mg/kg | 50  | Endocrine disrupting properties (Article 57(f) – environment)                                                                                                      |
| 176 | Dodecachloropentacyclo [12.2.1.16,9.02,13.05,10] octadeca-7,15-diene ( "Dechlorane Plus"™) [covering any of its individual isomers or any combination thereof]                                                                                                                                    | ---                                  | ---                   | mg/kg | 50  | vPvB (Article 57 e)                                                                                                                                                |
| 177 | Chrysene(CHR)                                                                                                                                                                                                                                                                                     | 218-01-9, 1719-03-5                  | 205-923-4             | mg/kg | 50  | Carcinogenic (Article 57 a) PBT (Article 57 d) vPvB (Article 57 e)                                                                                                 |
| 178 | Cadmium nitrate*                                                                                                                                                                                                                                                                                  | 10022-68-1;<br>10325-94-7            | 233-710-6             | mg/kg | 50  | Carcinogenic (Article 57a)<br>Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f) - human health)                        |

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|-----|----------------------------------------------------------------------------------|-----------------------|-----------|-------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------|
| 179 | Cadmium hydroxide*                                                               | 21041-95-2            | 244-168-5 | mg/kg | 50  | Carcinogenic (Article 57a)<br>Mutagenic (Article 57b) Specific<br>target organ toxicity after<br>repeated exposure (Article 57(f) -<br>human health) |
| 180 | Cadmium carbonate*                                                               | 513-78-0              | 208-168-9 | mg/kg | 50  | Carcinogenic (Article 57a)<br>Mutagenic (Article 57b) Specific<br>target organ toxicity after<br>repeated exposure (Article 57(f) -<br>human health) |
| 181 | Benz[a]anthracene                                                                | 56-55-3;<br>1718-53-2 | 200-280-6 | mg/kg | 50  | Carcinogenic (Article 57 a) PBT<br>(Article 57 d) vPvB (Article 57 e)                                                                                |
| 182 | Terphenyl, hydrogenated                                                          | 61788-32-7            | 262-967-7 | mg/kg | 50  | vPvB (Article 57 e)                                                                                                                                  |
| 183 | Octamethylcyclotetrasiloxane<br>(D4)                                             | 556-67-2              | 209-136-7 | mg/kg | 50  | PBT (Article 57 d) vPvB (Article 57<br>e)                                                                                                            |
| 184 | Lead(Pb)                                                                         | 7439-92-1             | 231-100-4 | mg/kg | 50  | Toxic for reproduction (Article 57<br>c)                                                                                                             |
| 185 | Ethylenediamine(EDA)                                                             | 107-15-3              | 203-468-6 | mg/kg | 50  | Respiratory sensitising properties<br>(Article 57 (f)-human health)                                                                                  |
| 186 | Dodecamethylcyclohexasiloxan<br>e(D6)                                            | 540-97-6              | 208-762-8 | mg/kg | 50  | PBT (Article 57 d);vPvB (Article 57<br>e)                                                                                                            |
| 187 | Disodium octaborate                                                              | 12008-41-2            | 234-541-0 | mg/kg | 50  | Toxic for reproduction (Article<br>57c)                                                                                                              |
| 188 | Dicyclohexyl Phthalate(DCHP)                                                     | 84-61-7               | 201-545-9 | mg/kg | 50  | Toxic for reproduction (Article 57<br>c) Endocrine disrupting<br>properties (Article 57(f)-human<br>health)                                          |
| 189 | Decamethylcyclopentasiloxane<br>(D5)                                             | 541-02-6              | 208-764-9 | mg/kg | 50  | PBT (Article 57 d) vPvB (Article 57<br>e)                                                                                                            |
| 190 | Benzo[g,h,i]perylene (BPE)                                                       | 191-24-2              | 205-883-8 | mg/kg | 50  | PBT (Article 57 d) vPvB (Article 57<br>e)                                                                                                            |
| 191 | Benzene-1,2,4-tricarboxylic<br>acid 1,2-anhydride(trimellitic<br>anhydride; TMA) | 552-30-7              | 209-008-0 | mg/kg | 50  | Respiratory sensitising properties<br>(Article 57 (f)-human health)                                                                                  |
| 192 | 2,2-bis(4'-hydroxyphenyl)-4-<br>methylpentane                                    | 6807-17-6             | 401-720-1 | mg/kg | 50  | Toxic for reproduction (Article 57<br>c)                                                                                                             |
| 193 | Benzo[k]fluoranthene (BkFA)                                                      | 207-08-9              | 205-916-6 | mg/kg | 50  | Carcinogenic(Article 57 a)PBT<br>(Article 57 d)vPvB(Article 57 e)                                                                                    |
| 194 | Fluoranthene (FLT)                                                               | 206-44-0              | 205-912-4 | mg/kg | 50  | PBT (Article 57 d) vPvB (Article 57<br>e)                                                                                                            |
| 195 | Phenanthrene (PHE)                                                               | 85-01-8               | 201-581-5 | mg/kg | 50  | vPvB (Article 57 e)                                                                                                                                  |
| 196 | Pyrene (PYR)                                                                     | 129-00-0              | 204-927-3 | mg/kg | 50  | PBT (Article 57 d) vPvB (Article 57<br>e)                                                                                                            |

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| No. | Item                                                                                                                                                         | CAS No.     | EC No.    | Unit  | MDL | Category                                                                                                                                                                                                                |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------|-------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 197 | 1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one                                                                                                | 15087-24-8  | 239-139-9 | mg/kg | 50  | Endocrine disrupting properties (Article 57 (f)-environment)                                                                                                                                                            |
| 198 | 2-Methoxyethyl Acetate                                                                                                                                       | 110-49-6    | 203-772-9 | mg/kg | 50  | Toxic for reproduction (Article 57 (c))                                                                                                                                                                                 |
| 199 | Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP)                                 | ---         | ---       | mg/kg | 50  | Endocrine disrupting properties (Article 57(f) – environment)                                                                                                                                                           |
| 200 | 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof) | ---         | ---       | mg/kg | 50  | Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment) Equivalent level of concern having probable serious effects to human health (Article 57(f) – human health) |
| 201 | 4-tert-Butylphenol(BP)                                                                                                                                       | 98-54-4     | 202-679-0 | mg/kg | 50  | Endocrine disrupting properties (Article 57(f) – environment)                                                                                                                                                           |
| 202 | Diisohexyl phthalate(DIHxP)                                                                                                                                  | 71850-09-4  | 276-090-2 | mg/kg | 50  | Toxic for reproduction (Article 57c)                                                                                                                                                                                    |
| 203 | 2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone                                                                                                          | 119313-12-1 | 404-360-3 | mg/kg | 50  | Toxic for reproduction (Article 57c)                                                                                                                                                                                    |
| 204 | 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one                                                                                                     | 71868-10-5  | 400-600-6 | mg/kg | 50  | Toxic for reproduction (Article 57c)                                                                                                                                                                                    |
| 205 | Perfluorobutane sulfonic acid (PFBS) and its salts(PFBS)                                                                                                     | --          | --        | mg/kg | 50  | Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment) Equivalent level of concern having probable serious effects to human health (Article 57(f) – human health) |
| 206 | 1-Vinylimidazole                                                                                                                                             | 1072-63-5   | 214-012-0 | mg/kg | 50  | Toxic for reproduction (Article 57 (c))                                                                                                                                                                                 |
| 207 | 2-Methylimidazole                                                                                                                                            | 693-98-1    | 211-765-7 | mg/kg | 50  | Toxic for reproduction (Article 57 (c))                                                                                                                                                                                 |
| 208 | Dibutylbis(pentane-2,4-dionato-O,O')tin                                                                                                                      | 22673-19-4  | 245-152-0 | mg/kg | 50  | Toxic for reproduction (Article 57 (c))                                                                                                                                                                                 |
| 209 | Butyl 4-hydroxybenzoate (Butylparaben)                                                                                                                       | 94-26-8     | 202-318-7 | mg/kg | 50  | Endocrine disrupting properties - human health (Article 57(f) – human health)                                                                                                                                           |
| 210 | Bis(2-(2-methoxyethoxy)ethyl) ether                                                                                                                          | 143-24-8    | 205-594-7 | mg/kg | 50  | Toxic for reproduction (Article 57 (c))                                                                                                                                                                                 |

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| No. | Item                                                                                                                                                                                                          | CAS No.                                | EC No.                        | Unit  | MDL | Category                                                                                                                                                                |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-------------------------------|-------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 211 | Diocetyl tin dilaurate, stannane, dioctyl-, bis (cocoacyloxy) derivs., and any other stannane, dioctyl-, bis (fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety | --                                     | --                            | mg/kg | 50  | Toxic for reproduction (Article 57(c))                                                                                                                                  |
| 212 | Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/or combinations thereof (PDDP)                            | --                                     | --                            | mg/kg | 50  | Toxic for reproduction (Article 57c)<br>Endocrine disrupting properties (Article 57(f) - environment)<br>Endocrine disrupting properties (Article 57(f) - human health) |
| 213 | orthoboric acid, sodium salt                                                                                                                                                                                  | --                                     | --                            | mg/kg | 50  | Toxic for reproduction (Article 57c)                                                                                                                                    |
| 214 | Medium-chain chlorinated paraffins (UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17) (MCCP)                           | --                                     | --                            | mg/kg | 50  | PBT (Article 57d)<br>vPvB (Article 57e)                                                                                                                                 |
| 215 | Glutaral                                                                                                                                                                                                      | 111-30-8                               | 203-856-5                     | mg/kg | 50  | Respiratory sensitising properties (Article 57(f) - human health)                                                                                                       |
| 216 | 4,4'-(1-methylpropylidene) bisphenol                                                                                                                                                                          | 77-40-7                                | 201-025-1                     | mg/kg | 50  | Endocrine disrupting properties (Article 57(f) - environment)<br>Endocrine disrupting properties (Article 57(f) - human health)                                         |
| 217 | 2-(4-tert-butylbenzyl) propionaldehyde and its individual stereoisomers                                                                                                                                       | --                                     | --                            | mg/kg | 50  | Toxic for reproduction (Article 57c)                                                                                                                                    |
| 218 | 2,2-bis(bromomethyl)propane-1,3-diol (BMP); 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA); 2,3-dibromo-1-propanol (2,3-DBPA)                                   | 3296-90-0/36483-57-5/1522-92-5/96-13-9 | 253-057-0/221-967-7/202-480-9 | mg/kg | 50  | Carcinogenic (Article 57a)                                                                                                                                              |

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| No. | Item                                                                                                                                                                               | CAS No.     | EC No.    | Unit  | MDL | Category                                                                                                                                                                                                                                                                   |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------|-------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 219 | 1,4-dioxane                                                                                                                                                                        | 123-91-1    | 204-661-8 | mg/kg | 50  | Carcinogenic (Article 57a)<br>Equivalent level of concern<br>having probable serious effects<br>to human health (Article 57(f) -<br>human health)<br>Equivalent level of concern<br>having probable serious effects<br>to the environment (Article 57(f)<br>- environment) |
| 220 | 6,6'-di-tert-butyl-2,2'-<br>methylenedi-p-cresol(DBMC)                                                                                                                             | 119-47-1    | 204-327-1 | mg/kg | 50  | Toxic for reproduction(Article 57<br>c)                                                                                                                                                                                                                                    |
| 221 | tris(2-methoxyethoxy)<br>vinylsilane                                                                                                                                               | 1067-53-4   | 213-934-0 | mg/kg | 50  | Toxic for reproduction(Article 57<br>c)                                                                                                                                                                                                                                    |
| 222 | (±)-1,7,7-trimethyl-3-[(4-<br>methylphenyl)methylene]<br>bicyclo[2.2.1]heptan-2-one<br>covering any of the individual<br>isomers and/or combinations<br>thereof(4-MBC)             | --          | --        | mg/kg | 50  | Endocrine disrupting properties<br>(Article 57(f) - human health)                                                                                                                                                                                                          |
| 223 | S-(tricyclo[5.2.1.0 <sup>2,6</sup> ]deca-3-en<br>-8(or 9)-yl) O-(isopropyl or<br>isobutyl or 2-ethylhexyl) O-<br>(isopropyl or isobutyl or 2-<br>ethylhexyl)<br>phosphorodithioate | 255881-94-8 | 401-850-9 | mg/kg | 50  | PBT (Article 57 d)                                                                                                                                                                                                                                                         |
| 224 | N-(hydroxymethyl)acrylamide                                                                                                                                                        | 924-42-5    | 213-103-2 | mg/kg | 50  | Carcinogenic (Article 57a)<br>Mutagenic (Article 57b)                                                                                                                                                                                                                      |

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Note:

- Please refer to full list of tested SVHC.
- N.D.= Not Detected or less than MDL
- MDL = Method Detection Limit
- + = Composite testing.
- \* = Calculated concentration of Cobalt Dichloride( $\text{CoCl}_2$ ) is based on the identified heavy metal and anion result. Calculated concentration of Diarsenic Pentaoxide( $\text{As}_2\text{O}_5$ ), Diarsenic Trioxide( $\text{As}_2\text{O}_3$ ), Sodium Dichromate, Dihydrate, Lead Hydrogen Arsenate and Triethyl Arsenate, Disodium tetraborate, anhydrous, Tetraboron disodium heptaoxide, hydrate, Sodium chromate, Potassium chromate, Ammonium dichromate, Potassium dichromate, Cobalt(II) sulfate, Cobalt(II) dinitrate, Cobalt(II) carbonate, Cobalt(II) diacetate, Chromium trioxide, Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid, strontium chromate, Calcium arsenate, Potassium hydroxyoctaoxodizincatedi-chromate, Lead dipicrate, Arsenic acid, Trilead diarsenate, Lead diazide, Lead azide, Lead styphnate, Dichromium tris(chromate), Diboron trioxide, Lead(II) bis(methanesulfonate), Acetic acid, lead salt, basic, Basic lead carbonate (trilead bis(carbonate)dihydroxide), Lead oxide sulfate (basic lead sulfate), [Phthalato(2-)]dioxotrilead(dibasic lead phthalate), Dioxobis(stearato) trilead, Fatty acids, C16-18, lead salts, Lead bis(tetrafluoroborate), Lead cyanamide, Lead dinitrate, Lead oxide (lead monoxide), Lead tetroxide (orange lead), Lead titanium trioxide, Lead Titanium Zirconium Oxide, Pentalead tetraoxide sulphate, Pyrochlore, antimony lead yellow C.I., Silicic acid ( $\text{H}_2\text{Si}_2\text{O}_5$ ), barium salt(1:1), lead-doped, [with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD)]; the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008], Silicic acid, lead salt, Sulfurous acid, lead salt, dibasic, Tetraethyllead, Tetralead trioxide sulphate, Trilead dioxide phosphonate, Cadmium oxide, Cadmium sulphide, Lead di(acetate), Sodiumperoxometaborate, Cadmium chloride, Sodium perborate; perboric acid, sodium salt, Cadmium fluoride, Cadmium sulphate, Cadmium nitrate, Cadmium hydroxide, Cadmium carbonate are based on the identified heavy metal result. Identity of above metal substances present in the article has to be further confirmed.
- \*\* = Calculated concentration of bis(tributyltin)oxide TBTO is based on the identified tributyltin, TBT Result. The result is screening test of TBTO and can cover TBTO and other salts under current technologies. Further investigation is required if the exact amount of TBTO has to be determined.
- \*\*\* = Calculated concentration of these coal-tar products is based on the identified polycyclic aromatic hydrocarbons  $\Sigma$ PAHs  $\Sigma$ 4% and heterocyclic compounds.
- \*\*\*\* = Calculated concentration of these Aluminosilicate and Zirconia Aluminosilicate is based on the identified aluminum and zirconium Result by ICP-AES.
- \*\*\*\*\* = The substance does only fulfil the criteria of REACH Art. 57 (a) if it contains Michler's ketone (EC Number: 202-027-5) or Michler's base (EC Number: 202-959-2) in a concentration  $\geq$  0.1% (weight / weight). - Carcinogenic, Mutagenic or toxic to Reproduction (CMR), meeting the criteria for classification in category 1 or 2 in accordance with Directive 67/548/EEC, Persistent, Bioaccumulative and Toxic (PBT) or very Persistent and very Bioaccumulative (vPvB) according to the criteria in Annex of XIII of the REACH Regulation, and/or Identified, on a case-by-case basis, from scientific evidence as causing probable serious effects to human health or the environment of an equivalent level of concern as those above (e.g. endocrine disrupters).
- The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the list published by ECHA: <https://echa.europa.eu/candidate-list-table> This list is under evaluation by ECHA and may subject to change in the future.
- If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

\*\*\*\*\*



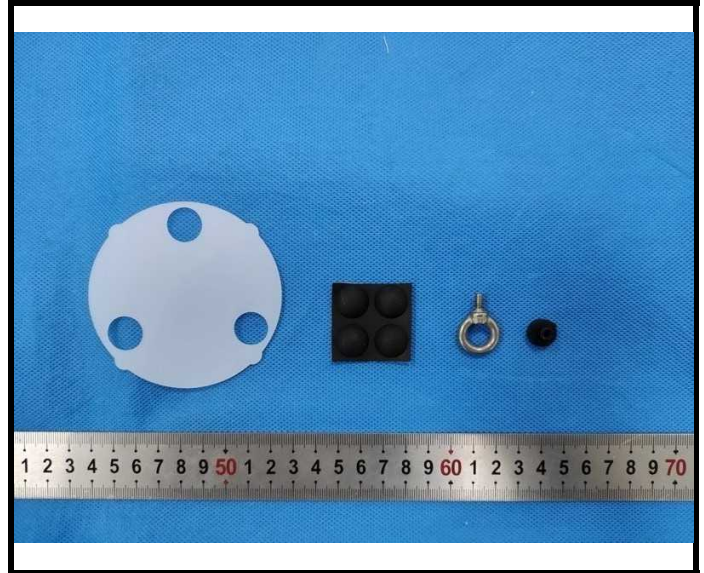
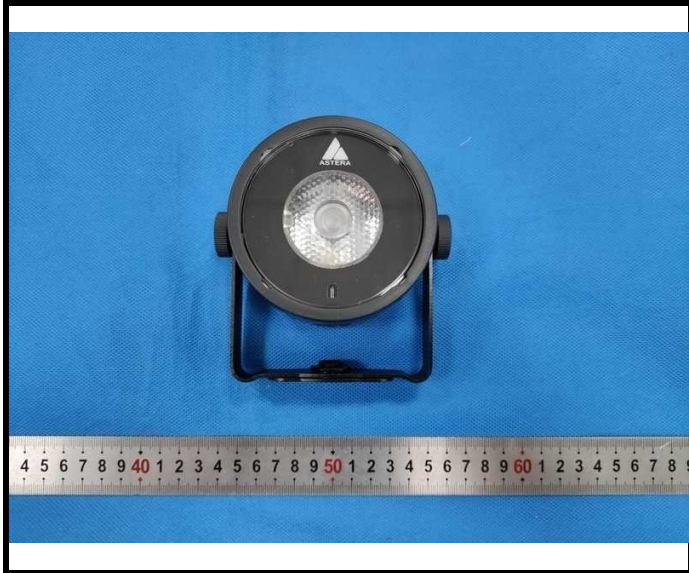
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Photograph of Sample

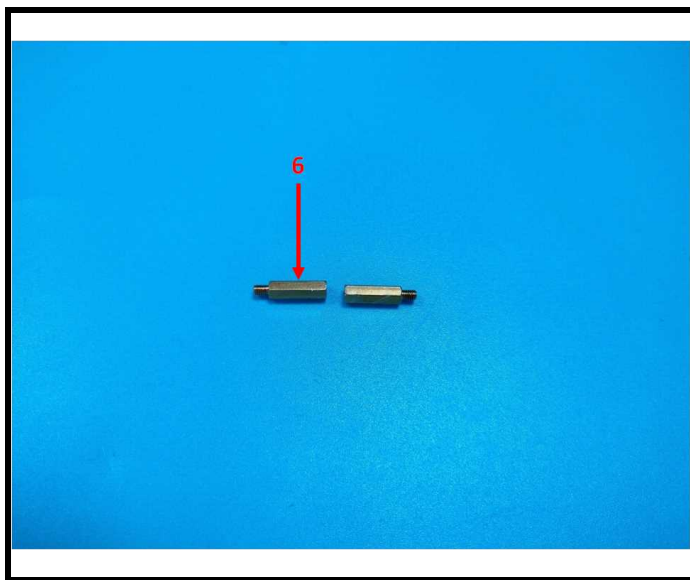
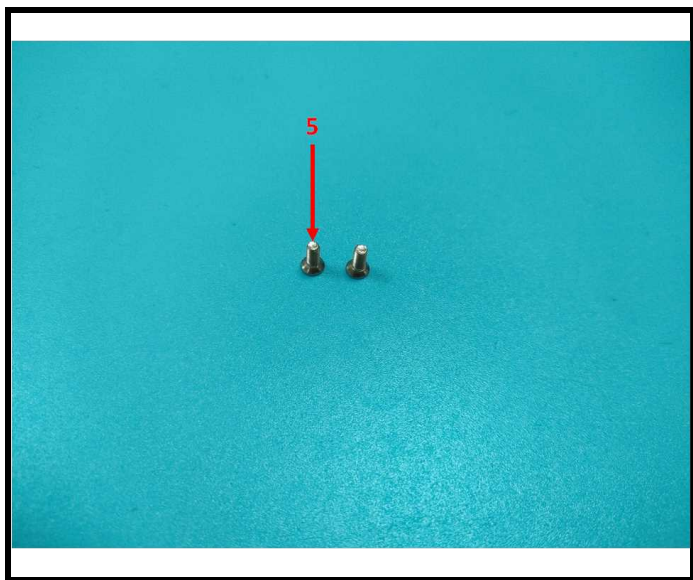
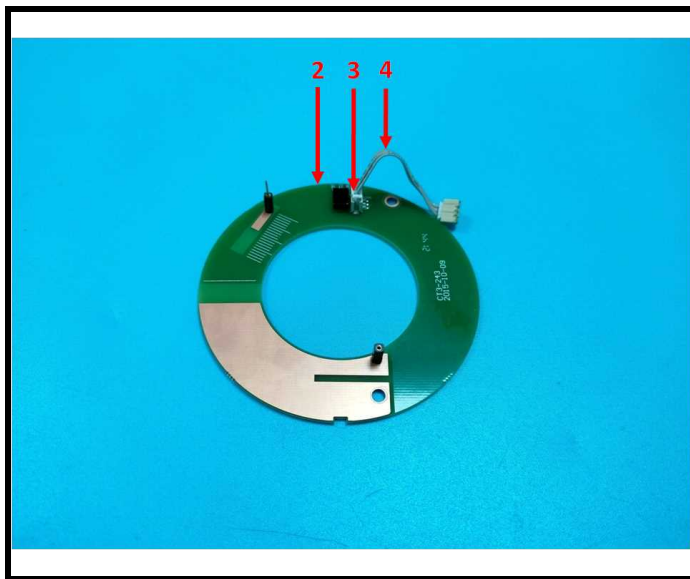
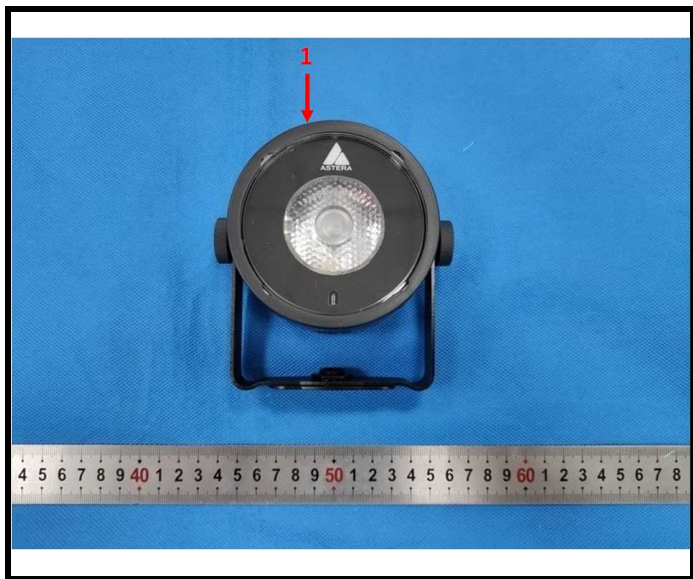


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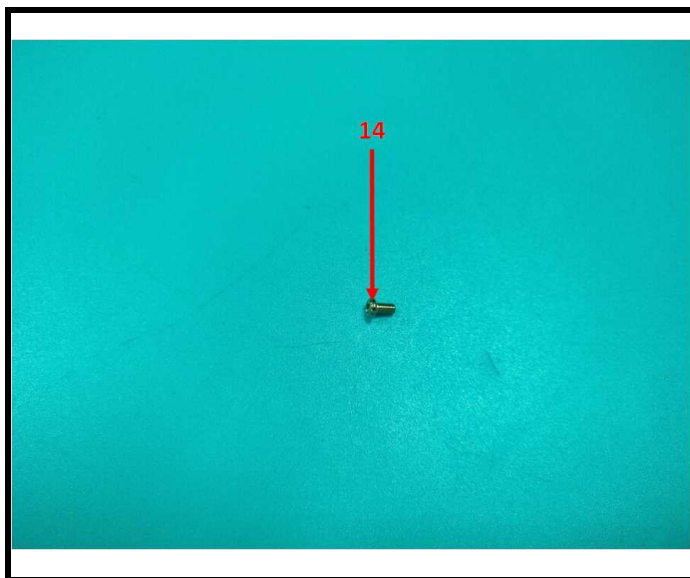
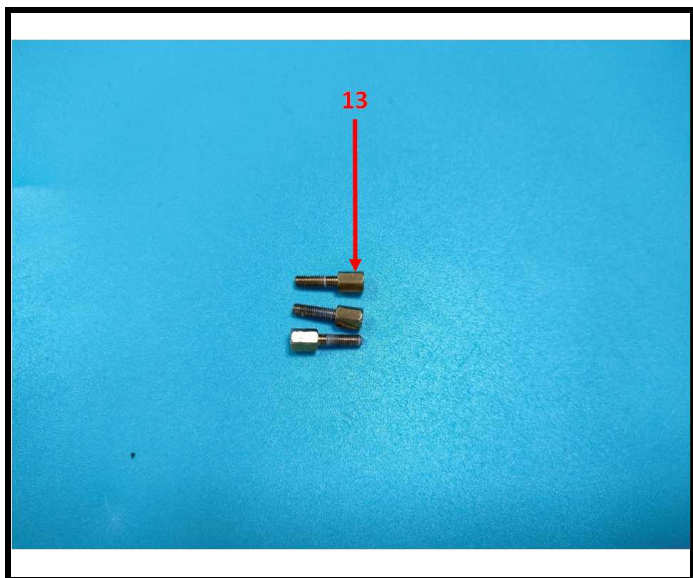
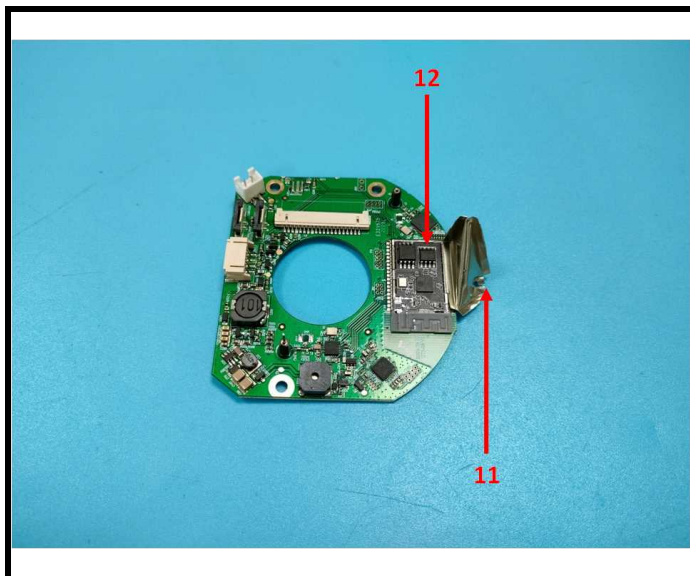
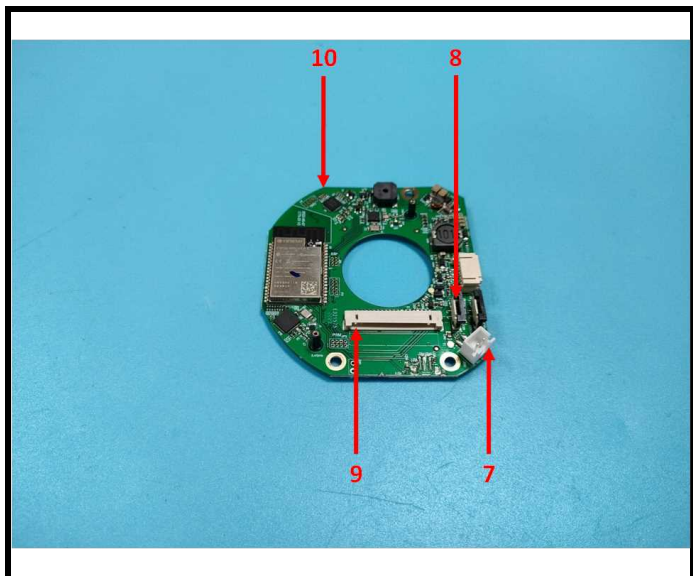


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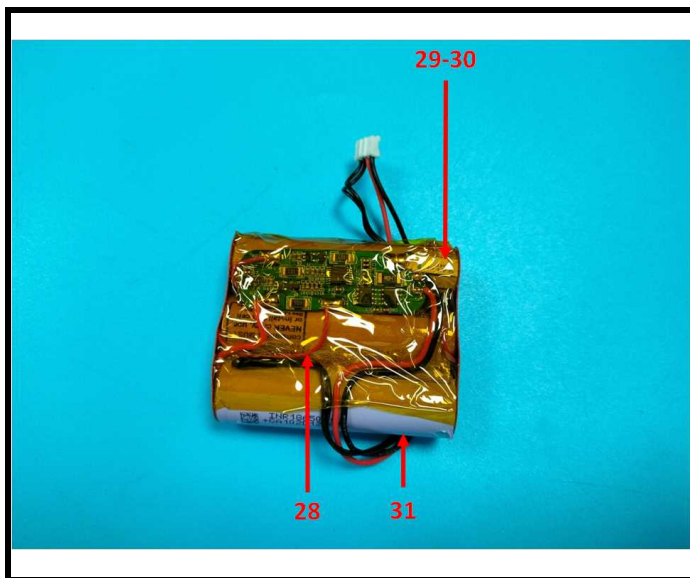
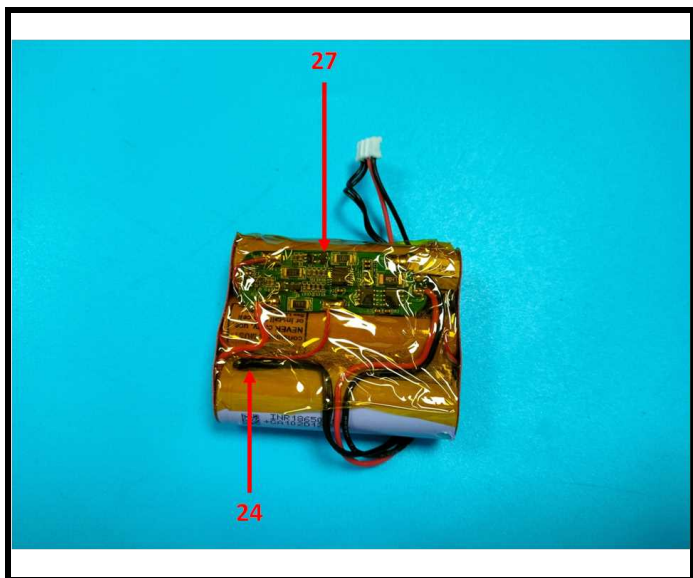
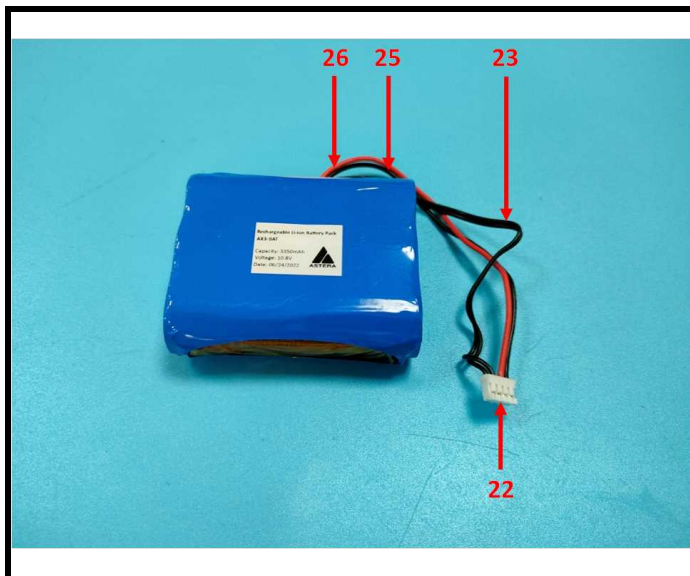
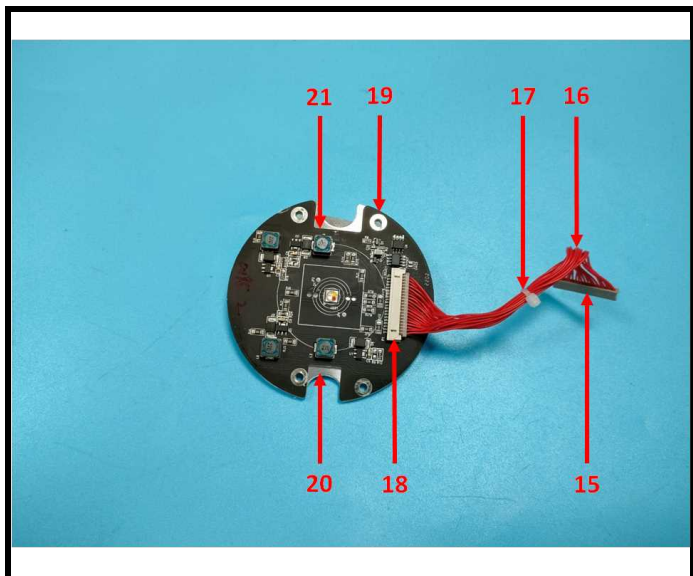


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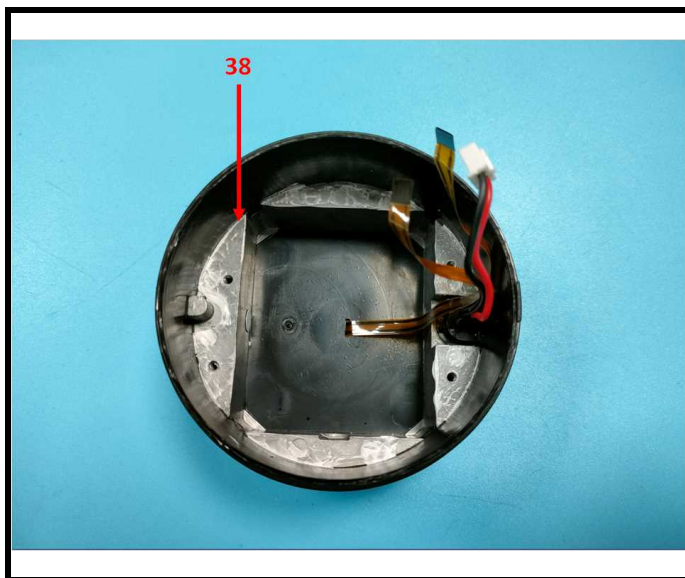
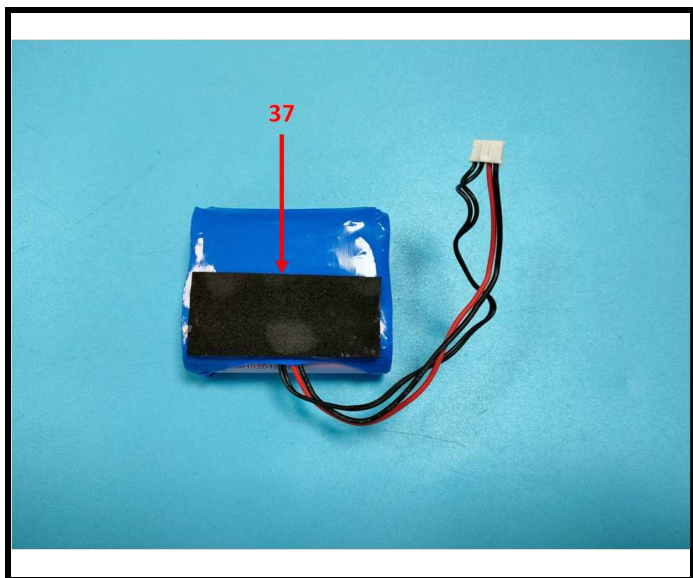
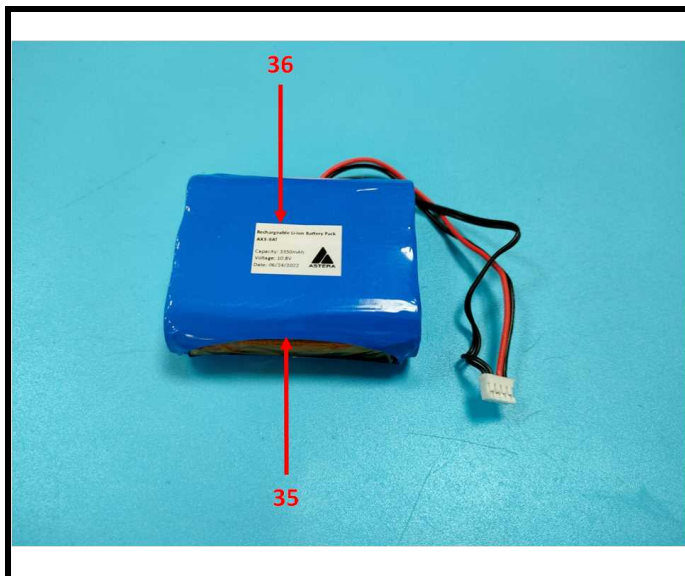
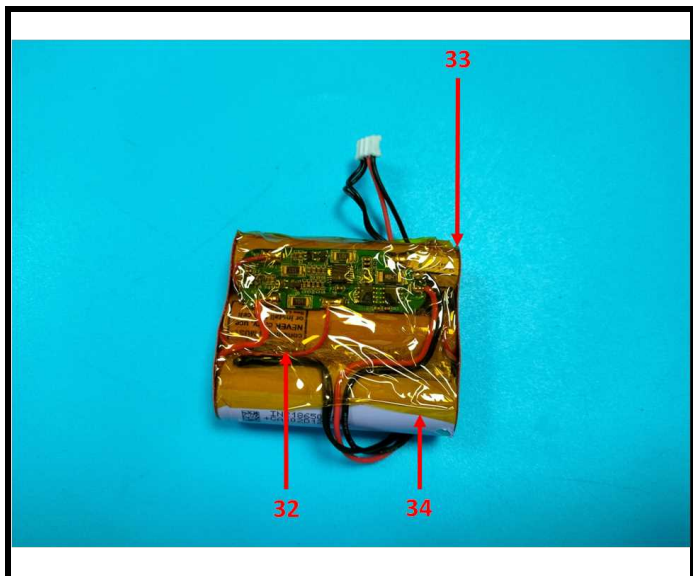


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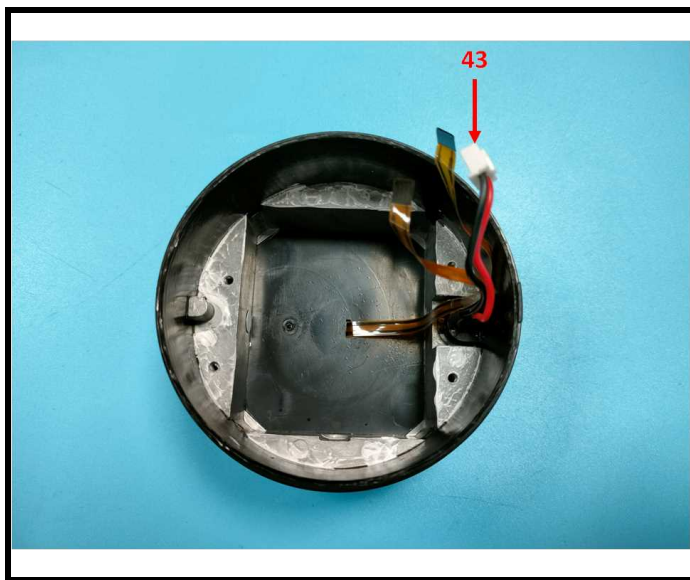
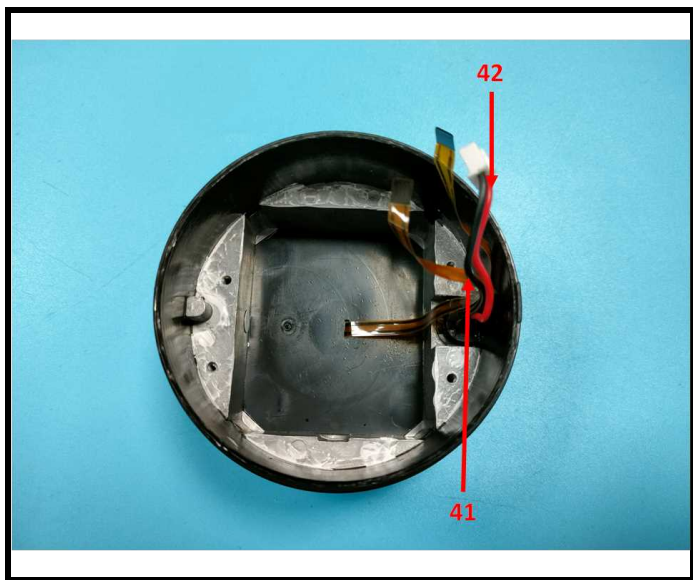
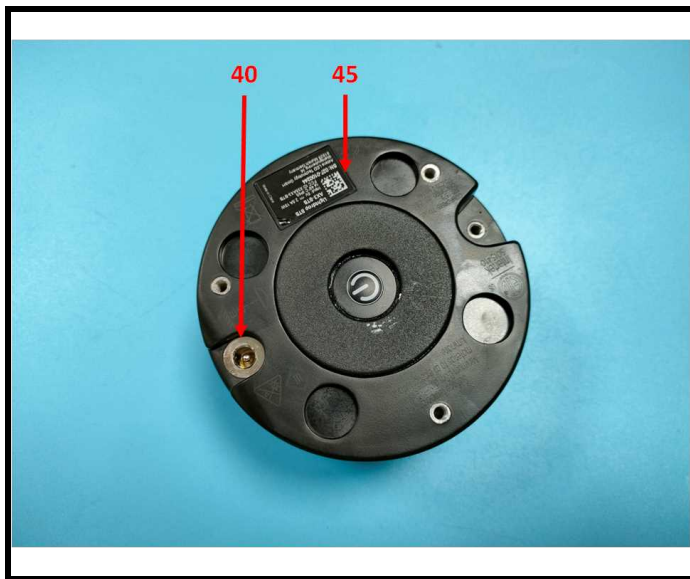
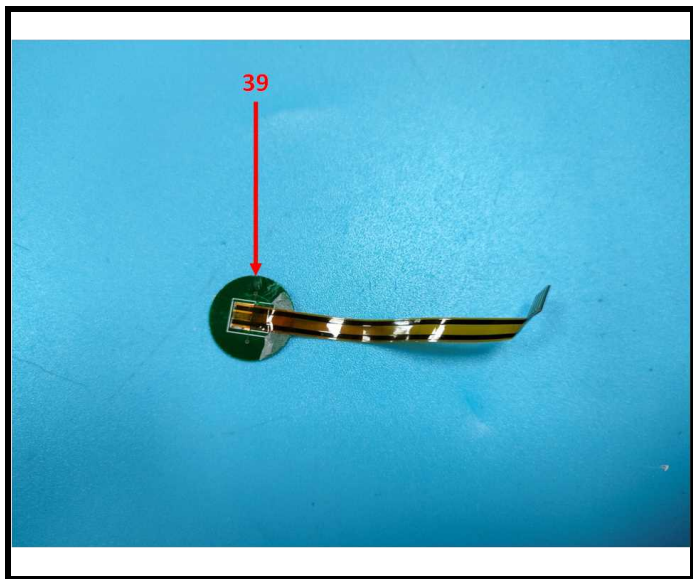


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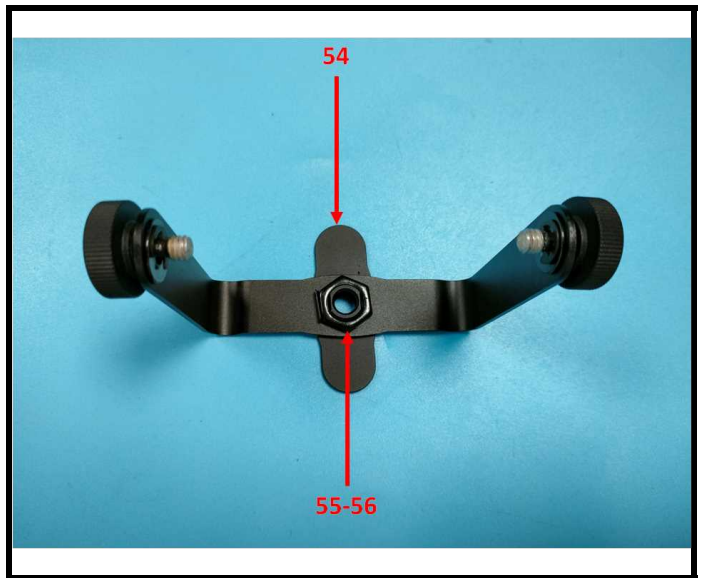
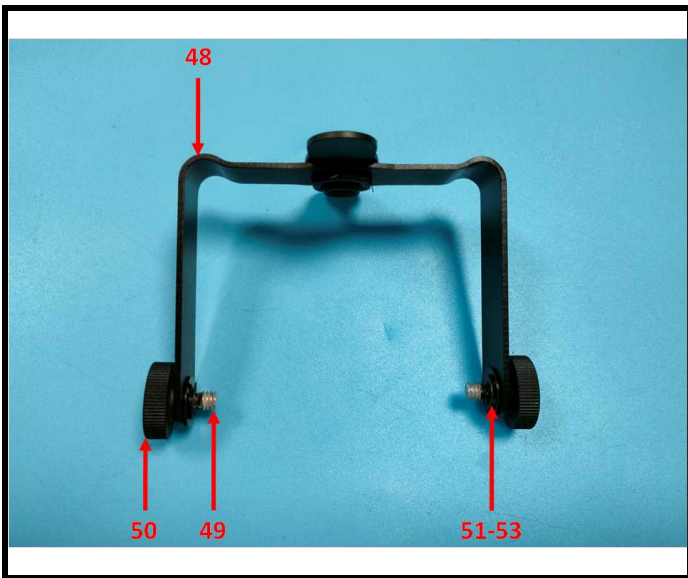
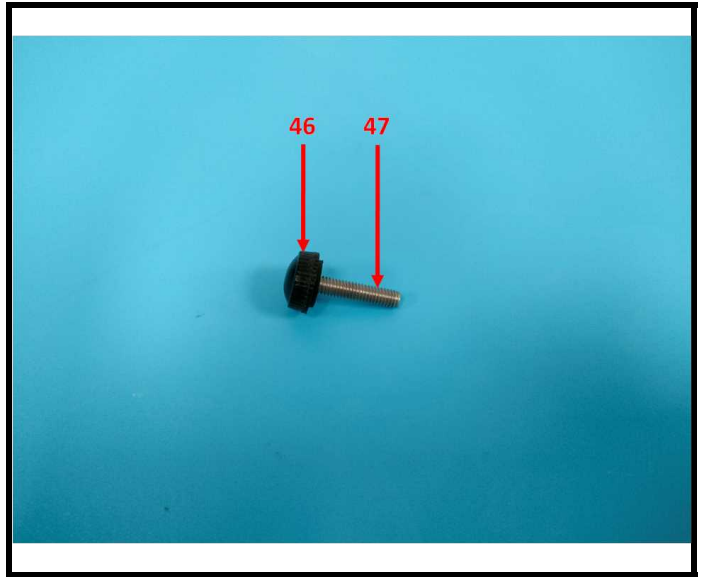
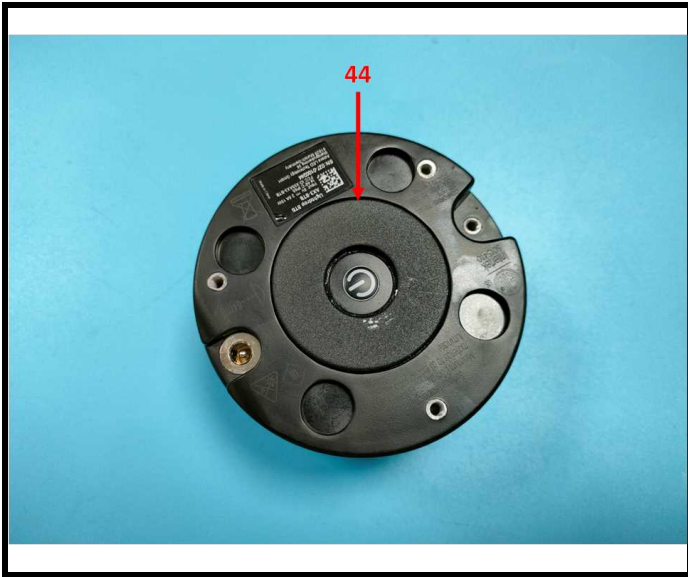


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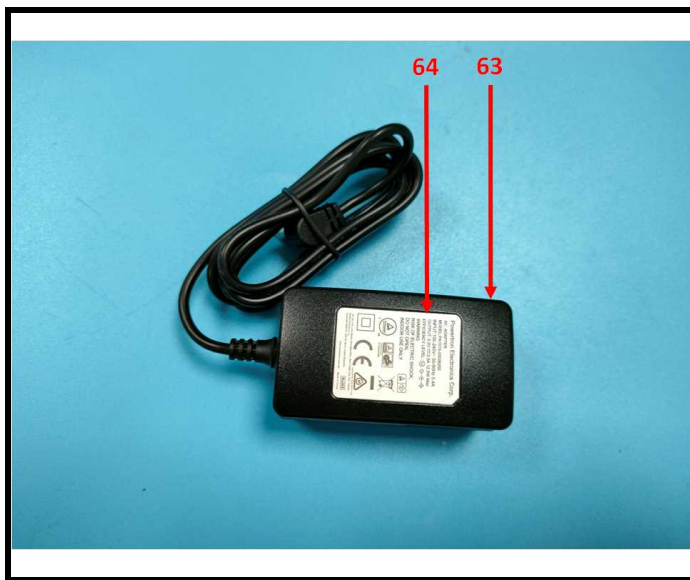
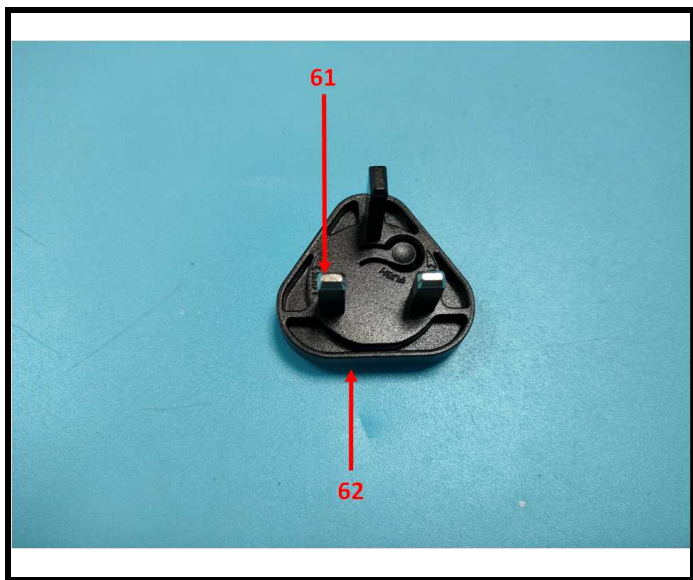
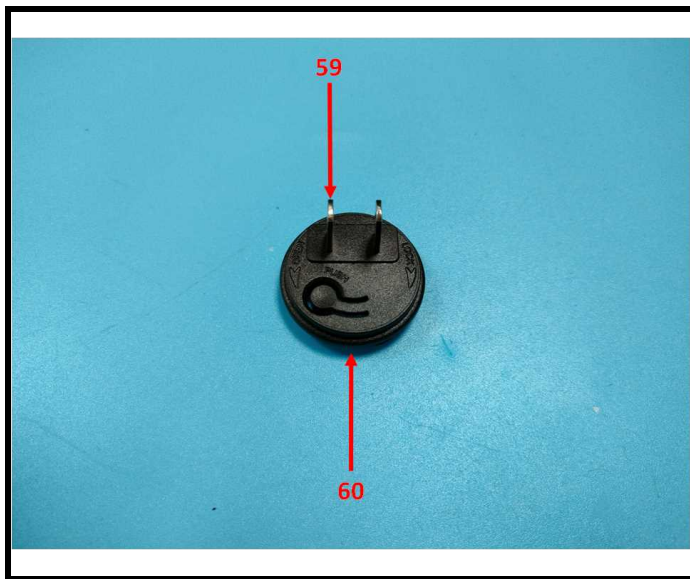
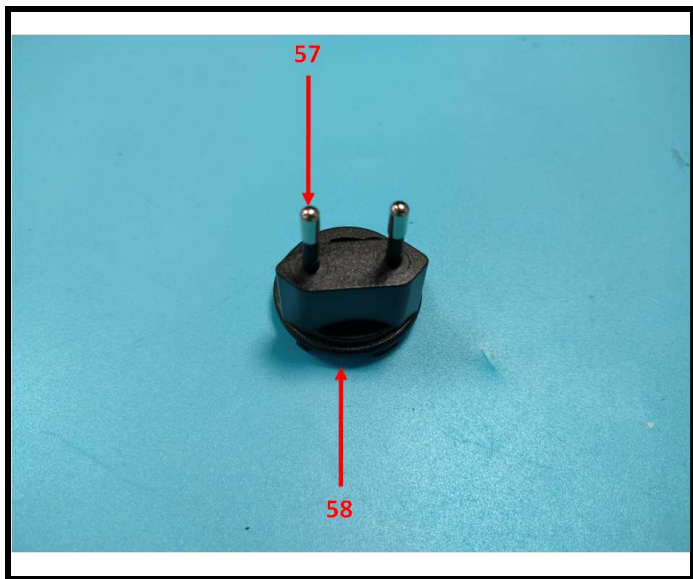


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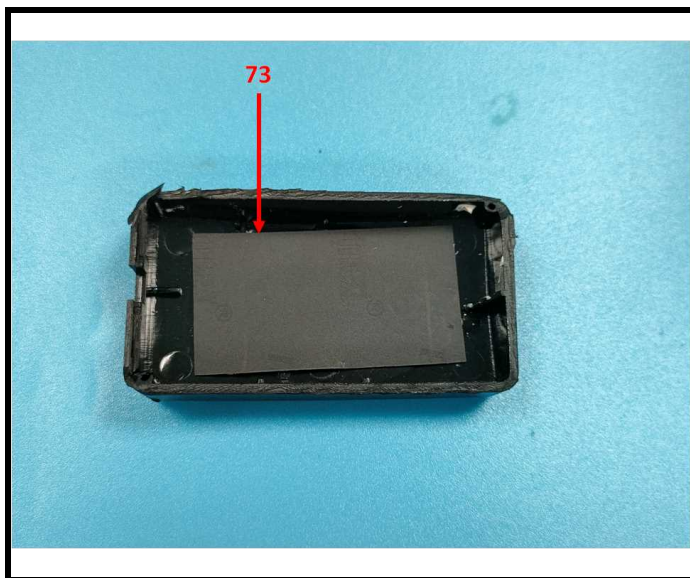
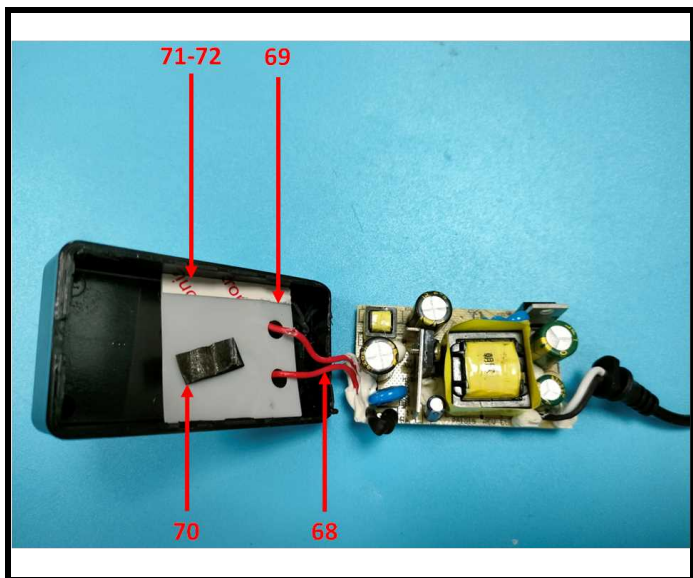


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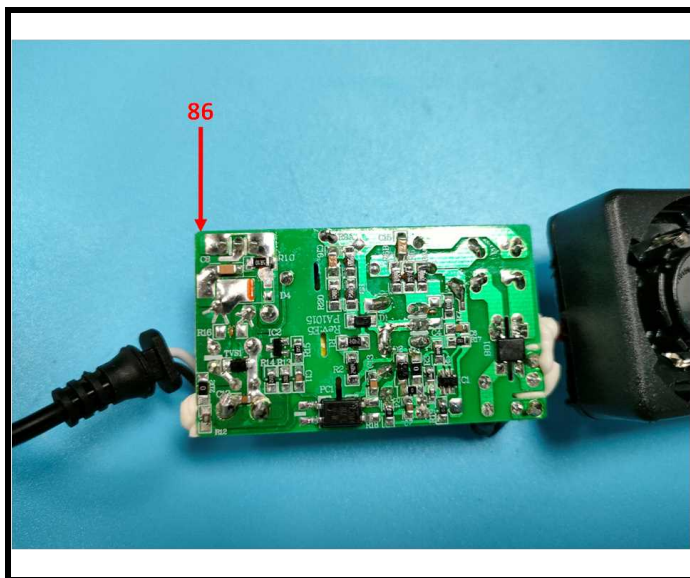
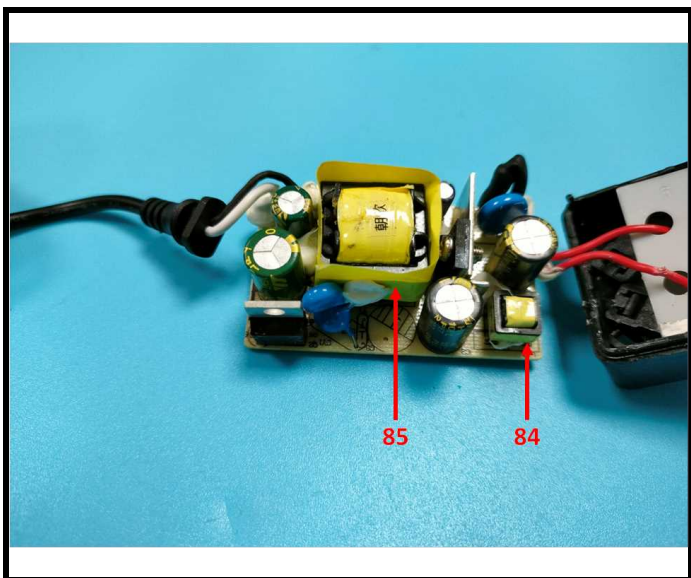
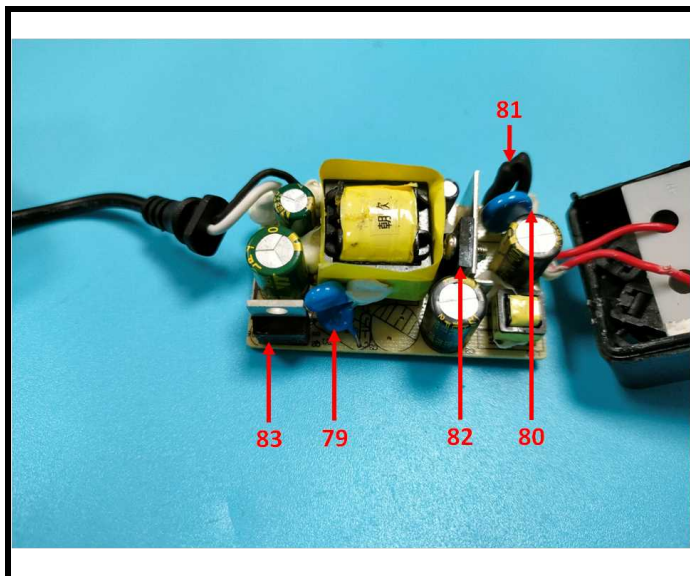
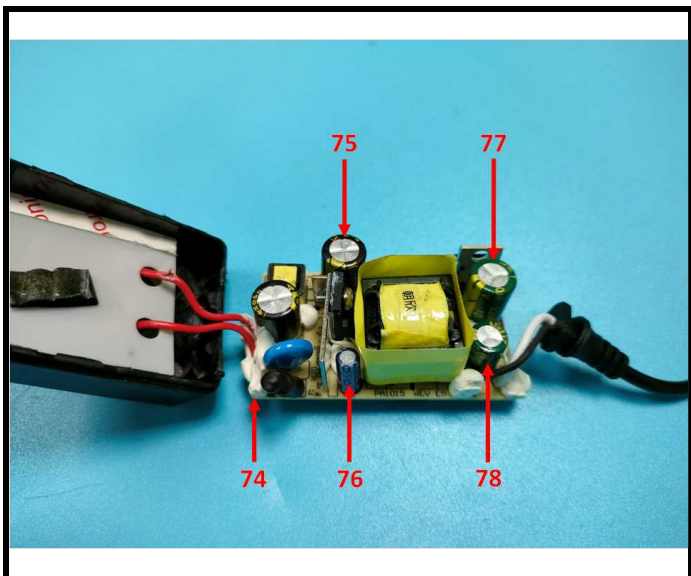


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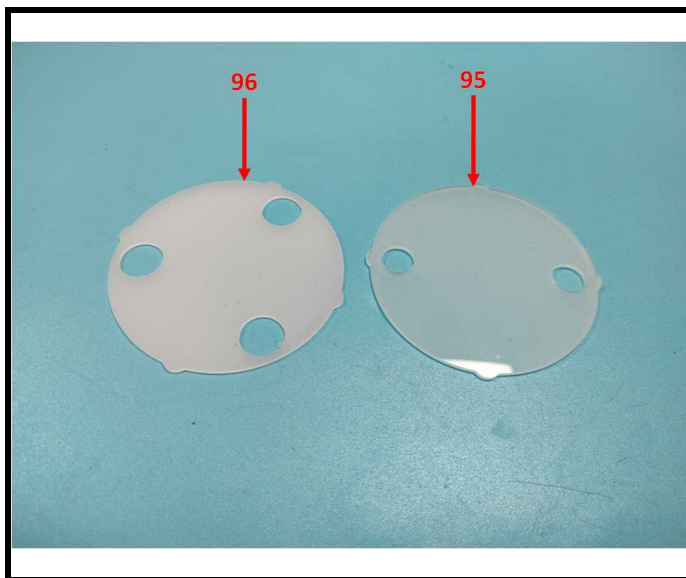
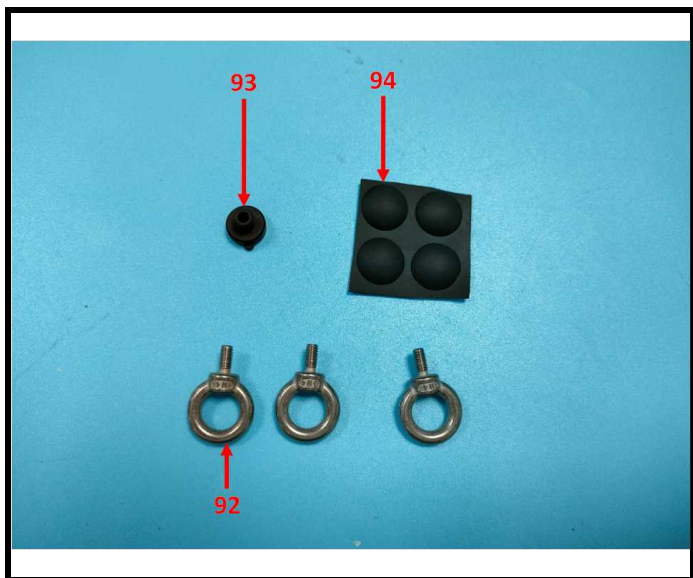
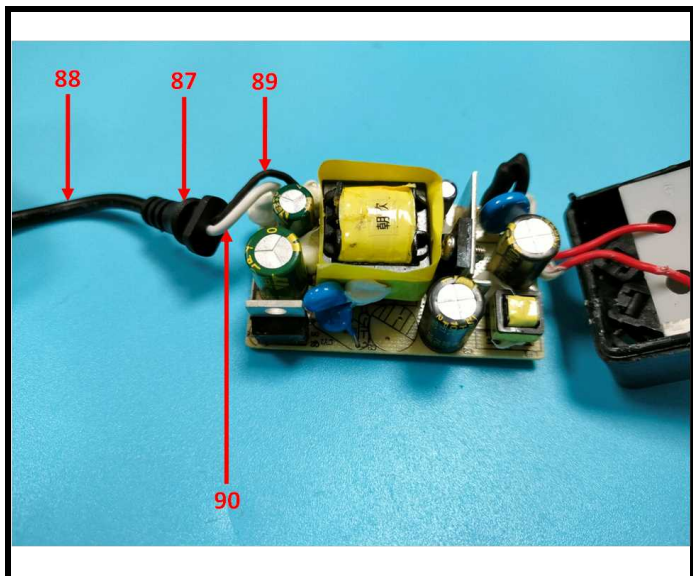


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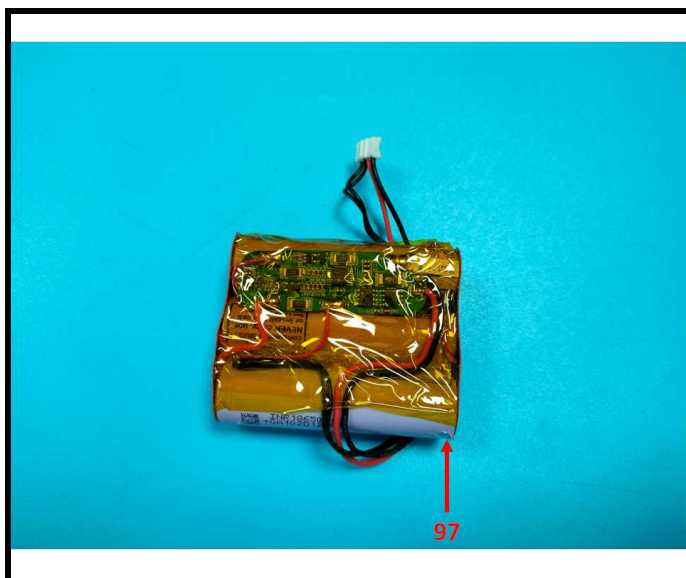


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BACL authenticate the photo on original report only

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- 2.Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
- 3.This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.
- 4.Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.
- 5.The information which provided by the applicant, such as sample description, sample name, material component, style/item No. , P.O. No. , manufacturer, age phase, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report.
- 6.The test samples were in good condition before testing.

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