

Report No.: 180266703a 001

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Client: FOXESS CO., LTD.

Contact Information: No.939, Jinhai Third Road, New Airport Industry Area, Longwan District,
Wenzhou, 325025 Zhejiang P.R. China

**Identification/
Model No(s):** Storage Inverter
H3-Pro-30.0

Condition at delivery: Test item complete and undamaged.

Sample Receiving date: 2023-10-09, 2023-11-02

Testing Period: 2023-10-11 to 2023-11-08

Place of testing: Chemical laboratory Ningbo

Test Specification:

Test result:

Customer's requirement:

- | | |
|--|------|
| 1. According to RoHS (recast): Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment, 2011/65/EU Annex II and its amendment. | PASS |
|--|------|

Other information:

Reference Model No.: H3-Pro-10.0, H3-Pro-12.0, H3-Pro-15.0, H3-Pro-20.0, H3-Pro-22.0, H3-Pro-24.9, H3-Pro-25.0, H3-Pro-29.9, AC3-Pro-10.0, AC3-Pro-12.0, AC3-Pro-15.0, AC3-Pro-20.0, AC3-Pro-22.0, AC3-Pro-24.9, AC3-Pro-25.0, AC3-Pro-29.9, AC3-Pro-30.0

For and on behalf of
TÜV Rheinland/CCIC (Ningbo) Co., Ltd.



2023-11-09

Dream Wang / Manager

Date

Name/Position

Sample information is provided by customer. Test result is drawn according to the kind and extent of tests performed.
This test report relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.
"Decision Rule" document announced in our website (<https://www.tuv.com/landingpage/en/qm-gcn/>) describes the statement of conformity and its rule of enforcement for test results are applicable throughout this test report.

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Material List:

Item: Storage Inverter
H3-Pro-30.0

Material No.	Material	Color	Location
M001	Coating	grey	refer to photo
M002	Metal + coating	grey	refer to photo
M003	Plastic + adhesive	multi	refer to photo
M004	Plastic + adhesive	yellow	refer to photo
M005	Coating	white	refer to photo
M006	Metal + coating	white	refer to photo
M007	Metal	silver	refer to photo
M008	Metal + coating	dark grey	refer to photo
M009	Metal	silver	refer to photo
M010	Metal	silver	refer to photo
M011	Metal	silver	refer to photo
M012	Plastic	black	refer to photo
M013	Plastic	red	refer to photo
M014	Metal	silver	refer to photo
M015	Plastic + Textile	white	refer to photo
M016	Plastic	black	refer to photo
M017	Plastic	yellow	refer to photo
M018	Metal	silver	refer to photo
M019	Metal	copper	refer to photo
M020	Magnet	blue	refer to photo
M021	Plastic	yellow	refer to photo
M022	Plastic	black	refer to photo
M023	Solder	silver	refer to photo
M024	Metal	silver	refer to photo
M025	Plastic	black	refer to photo
M026	Rubber	black	refer to photo
M027	Glue	grey	refer to photo
M028	Metal	silver	refer to photo

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M029	Plastic	transparent	refer to photo
M030	Plastic + adhesive	black	refer to photo
M031	Plastic	transparent	refer to photo
M032	Metal	silver	refer to photo
M033	Solder	silver	refer to photo
M034	Plastic	black	refer to photo
M035	Plastic	grey	refer to photo
M036	Plastic	white	refer to photo
M037	Plastic	black	refer to photo
M038	PCB board	green	refer to photo
M039	Metal	black	refer to photo
M040	Plastic	transparent	refer to photo
M041	Glass	transparent	refer to photo
M042	Plastic	white	refer to photo
M043	Solder	black	refer to photo
M044	PCB board	green	refer to photo
M045	Plastic + adhesive	grey	refer to photo
M046	Plastic + adhesive	dark grey	refer to photo
M047	Rubber	black	refer to photo
M048	Plastic	black	refer to photo
M049	Electronic components	black	refer to photo
M050	Electronic components	black	refer to photo
M051	Electronic components	cyan-blue	refer to photo
M052	Electronic components	white	refer to photo
M053	Magnet	black	refer to photo
M054	Electronic components	cyan-blue	refer to photo
M055	Electronic components	black	refer to photo
M056	Metal	silver	refer to photo
M057	Magnet	silver	refer to photo
M058	Electronic components	dark green	refer to photo
M059	Plastic	black	refer to photo
M060	Electronic components	black	refer to photo

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M061	Plastic	transparent	refer to photo
M062	Electronic components	blue	refer to photo
M063	Plastic	black	refer to photo
M064	Magnet	black	refer to photo
M065	Plastic + adhesive	yellow	refer to photo
M066-1	Metal	silver	retest sample refer to photo
M067	Plastic	black	refer to photo
M068	Plastic	black	refer to photo
M069	Plastic + adhesive	yellow	refer to photo
M070	Electronic components	silver	refer to photo
M071	Plastic	white	refer to photo
M072	Plastic	black	refer to photo
M073	Electronic components	silver	refer to photo
M074	Glue	grey	refer to photo
M075	Electronic components	black	refer to photo
M076	Plastic	black	refer to photo
M077	Metal	silver	refer to photo
M078	Solder	silver	refer to photo
M079	Metal	silver	refer to photo
M080	Plastic + adhesive	black	refer to photo
M081	Solder	silver	refer to photo
M082	PCB board	green	refer to photo
M083	Electronic components	silver	refer to photo
M084	Electronic components	black	refer to photo
M085	Electronic components	black	refer to photo
M086	Plastic	white	refer to photo
M087	Plastic	beige	refer to photo
M088	Electronic components	silver	refer to photo
M089	Plastic	black	refer to photo
M090	Electronic components	light cyan-blue	refer to photo
M091	Plastic	black	refer to photo
M092	Plastic	red	refer to photo

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M093	Electronic components	blue	refer to photo
M094	Solder	silver	refer to photo
M095	PCB board	green-cyan	refer to photo
M096	Electronic components	cyan-blue	refer to photo
M097	Electronic components	red	refer to photo
M098	Metal	silver	refer to photo
M099	Magnet	black	refer to photo
M100	Electronic components	black	refer to photo
M101	Glue	white	refer to photo
M102	Solder	silver	refer to photo
M103	PCB board	light green-cyan	refer to photo
M104	Metal	silver	refer to photo
M105	Plastic	black	refer to photo
M106	Plastic	yellow	refer to photo
M107	Plastic	dark cyan	refer to photo
M108	Plastic	cyan-blue	refer to photo
M109	Plastic	yellow-green	refer to photo
M110	Plastic	black	refer to photo
M111	Rubber	black	refer to photo
M112	Plastic	green	refer to photo
M113	Rubber	yellow	refer to photo
M114	Metal	silver	refer to photo
M115	Plastic	beige	refer to photo
M116	Plastic	beige	refer to photo
M117	Plastic	grey	refer to photo
M118	Plastic	orange	refer to photo
M119	Metal	black	refer to photo
M120	Metal	silver	refer to photo
M121	Metal	black	refer to photo
M122	Rubber	black	refer to photo
M123	Metal	red	refer to photo
M124	Metal	silver	refer to photo

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M125	Metal	silver	refer to photo
M126	Metal	silver	refer to photo
M127	Metal	silver	refer to photo
M128	Metal	silver	refer to photo
M129	Rubber	black	refer to photo
M130	Plastic	black	refer to photo
M131	Plastic	red	refer to photo
M132	Plastic	light cyan	refer to photo
M133	Magnet	dark cyan	refer to photo
M134	Rubber	black	refer to photo
M135	Plastic	orange	refer to photo
M136	Plastic	green	refer to photo
M137	Plastic	black	refer to photo
M138	Plastic	white	refer to photo
M139	Plastic	yellow	refer to photo
M140	Plastic	light blue	refer to photo
M141	Plastic	red	refer to photo
M142	Metal	silver	refer to photo
M143	Plastic	black	refer to photo
M144	Textile	black	refer to photo
M145	Rubber	grey	refer to photo
M146	Textile + adhesive	black	refer to photo
M147-1	Plastic	yellow	retest sample refer to photo
M148-1	Plastic	blue	retest sample refer to photo
M149-1	Plastic	brown	retest sample refer to photo
M150	Plastic	light cyan	refer to photo
M151-1	Plastic	orange	retest sample refer to photo
M152-1	Plastic	black	retest sample refer to photo
M153-1	Plastic	white	retest sample refer to photo
M154-1	Plastic	red	retest sample refer to photo
M155	Plastic	black	refer to photo
M156	Plastic	black	refer to photo

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M157	Plastic	red	refer to photo
M158	Plastic	black	refer to photo
M159	Plastic	black	refer to photo
M160	Plastic	white	refer to photo
M161	Plastic	orange	refer to photo
M162	Plastic	red	refer to photo
M163	Rubber	blue	refer to photo
M164	Rubber	black	refer to photo
M165	Rubber	black	refer to photo
M166	Plastic	cyan-blue	refer to photo
M167	Metal	silver	refer to photo
M168	Plastic	grey	refer to photo
M169	Plastic	blue	refer to photo
M170	Plastic	orange	refer to photo
M171	Plastic	orange+white	refer to photo
M172	Plastic	brown+white	refer to photo
M173	Plastic	brown	refer to photo
M174	Plastic	green+white	refer to photo
M175	Plastic	green	refer to photo
M176	Plastic	blue	refer to photo
M177	Plastic	blue+white	refer to photo
M178	Metal	silver	refer to photo
M179	Plastic	transparent	refer to photo
M180	Rubber	black	refer to photo
M181	Metal	golden	refer to photo
M182	Plastic	black	refer to photo
M183	Plastic	brown	refer to photo
M184	Rubber	black	refer to photo
M185	Plastic	black	refer to photo
M186	Metal	silver	refer to photo
M187	Rubber	black	refer to photo
M188	Plastic	black	refer to photo

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M189	Plastic + adhesive	white+black	refer to photo
M190	Metal	silver	refer to photo
M191	Plastic	black	refer to photo
M192	Metal	silver	refer to photo
M193	PCB board	green	refer to photo
M194	Solder	silver	refer to photo
M195	Metal	silver	refer to photo
M196	Plastic	white	refer to photo
M197	Metal	copper	refer to photo
M198	Metal	golden	refer to photo
M199	Metal	silver	refer to photo
M200	Magnet	black	refer to photo
M201	Plastic	white	refer to photo
M202	Metal + coating	grey	refer to photo
M203	Metal	golden	refer to photo
M204	Plastic	white	refer to photo
M205	Plastic + adhesive	silver	refer to photo
M206	Metal	silver	refer to photo
M207	Plastic + adhesive	white+blue	refer to photo
M208	Metal	copper	refer to photo
M209	Plastic	black	refer to photo
M210	Plastic	green	refer to photo
M211	Electronic components	yellow	refer to photo
M212	Electronic components	yellow	refer to photo
M213	Plastic	white	refer to photo
M214	Plastic	black	refer to photo
M215	Solder	silver	refer to photo
M216	PCB board	green-cyan	refer to photo
M217	Solder	silver	refer to photo
M218	PCB board	green	refer to photo
M219	Plastic	transparent	refer to photo
M220	Solder	silver	refer to photo

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M221	PCB board	greenn	refer to photo
M222	Plastic	red	refer to photo
M223	Plastic	black	refer to photo
M224	Electronic components	black	refer to photo
M225	Electronic components	orange	refer to photo
M226	Plastic	black	refer to photo
M227	Plastic + adhesive	multi	refer to photo
M228	Solder	silver	refer to photo
M229	Foam + adhesive	black	refer to photo
M230	Metal	silver	refer to photo
M231	Plastic	black	refer to photo
M232	Solder	silver	refer to photo
M233	PCB board	green-cyan	refer to photo
M234	Plastic	black	refer to photo
M235	Rubber	beige	refer to photo
M236	Rubber	beige	refer to photo
M237	Plastic	black	refer to photo
M238	Plastic	dark blue	refer to photo
M239	Metal	silver	refer to photo
M240	Metal	silver	refer to photo
M241	Rubber	black	refer to photo
M242	Metal	silver	refer to photo
M243	Metal	silver	refer to photo
M244	Metal	silver	refer to photo
M245	Plastic	orange	refer to photo
M246	Rubber	red	refer to photo
M247	Rubber	black	refer to photo
M248	Rubber	black	refer to photo
M249	Metal	silver	refer to photo
M250	Metal	silver	refer to photo
M251	PCB board	black	refer to photo
M252	Plastic	black	refer to photo

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M253	Metal	silver	refer to photo
M254	Rubber	cyan-blue	refer to photo
M255	Rubber	red	refer to photo
M256	Rubber	dark red	refer to photo
M257	Metal	silver	refer to photo
M258	Plastic	grey	refer to photo
M259	Rubber	beige	refer to photo
M260	Rubber	transparent	refer to photo
M261	Plastic	black	refer to photo
M262	Plastic	white	refer to photo
M263	Plastic	black	refer to photo
M264	Plastic	white	refer to photo
M265	Metal	silver	refer to photo
M266	Metal	silver	refer to photo
M267	Metal	silver	refer to photo
M268	Metal	silver	refer to photo
M269	Metal	silver	refer to photo
M270	Metal	silver	refer to photo
M271	Metal	silver	refer to photo
M272	Metal	silver	refer to photo
M273	Metal	silver	refer to photo
M274	Metal	silver	refer to photo
M275	Metal	silver	refer to photo
M276	Metal	silver	refer to photo

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1.Screening Test by XRF spectroscopy

Test Method: Cadmium, Lead, Mercury, Chromium, Bromine
 -- With reference to IEC 62321-3-1:2013

Test Result:

Material No.	Cd	Cr	Pb	Hg	Br
M001	BL	BL	BL	BL	BL
M002	BL	BL	BL	BL	n.a.
M003	BL	BL	BL	BL	BL
M004	BL	BL	BL	BL	BL
M005	BL	BL	BL	BL	BL
M006	BL	d.(*1)	BL	BL	n.a.
M007	BL	d.(*1)	BL	BL	n.a.
M008	BL	d.(*1)	BL	BL	n.a.
M009	BL	BL	BL	BL	n.a.
M010	BL	BL	BL	BL	n.a.
M011	BL	BL	BL	BL	n.a.
M012	BL	BL	BL	BL	BL
M013	BL	BL	BL	BL	BL
M014	BL	BL	BL	BL	n.a.
M015	BL	BL	BL	BL	BL
M016	BL	BL	BL	BL	BL
M017	BL	BL	BL	BL	BL
M018	BL	BL	BL	BL	n.a.
M019	BL	BL	BL	BL	n.a.
M020	BL	BL	BL	BL	n.a.
M021	BL	BL	BL	BL	BL
M022	BL	BL	BL	BL	BL
M023	BL	BL	BL	BL	n.a.
M024	BL	BL	BL	BL	n.a.
M025	BL	BL	BL	BL	BL
M026	BL	BL	BL	BL	BL
M027	BL	BL	BL	BL	BL
M028	BL	BL	BL	BL	n.a.
M029	BL	BL	BL	BL	BL
M030	BL	BL	BL	BL	BL
M031	BL	BL	BL	BL	BL
M032	BL	d.(*1)	BL	BL	n.a.
M033	BL	BL	BL	BL	n.a.
M034	BL	BL	BL	BL	d.(*1)
M035	BL	BL	BL	BL	BL
M036	BL	BL	BL	BL	BL
M037	BL	BL	BL	BL	BL

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M038	BL	BL	BL	BL	d.(*1)
M039	BL	BL	BL	BL	n.a.
M040	BL	BL	BL	BL	BL
M041	BL	BL	BL	BL	n.a.
M042	BL	BL	BL	BL	BL
M043	BL	BL	BL	BL	n.a.
M044	BL	BL	BL	BL	d.(*1)
M045	BL	BL	BL	BL	BL
M046	BL	BL	BL	BL	BL
M047	BL	BL	BL	BL	BL
M048	BL	BL	BL	BL	d.(*1)
M049	BL	BL	BL	BL	BL
M050	BL	BL	BL	BL	d.(*1)
M051	BL	BL	BL	BL	d.(*1)
M052	BL	BL	BL	BL	d.(*1)
M053	BL	BL	BL	BL	n.a.
M054	BL	BL	BL	BL	BL
M055	BL	BL	BL	BL	BL
M056	BL	BL	BL	BL	n.a.
M057	BL	BL	BL	BL	n.a.
M058	BL	d.(*1)	BL	BL	BL
M059	BL	BL	BL	BL	BL
M060	BL	BL	BL	BL	BL
M061	BL	BL	BL	BL	BL
M062	BL	BL	BL	BL	BL
M063	BL	BL	BL	BL	d.(*1)
M064	BL	d.(*1)	BL	BL	n.a.
M065	BL	BL	BL	BL	BL
M067	BL	BL	BL	BL	d.(*1)
M068	BL	BL	BL	BL	BL
M069	BL	BL	BL	BL	BL
M070	BL	BL	BL	BL	BL
M071	BL	BL	BL	BL	BL
M072	BL	BL	BL	BL	BL
M073	BL	BL	BL	BL	BL
M074	BL	BL	BL	BL	BL
M075	BL	BL	BL	BL	BL
M076	BL	BL	BL	BL	d.(*1)
M077	BL	BL	BL	BL	n.a.
M078	BL	BL	BL	BL	n.a.
M079	BL	d.(*1)	BL	BL	n.a.
M080	BL	BL	BL	BL	BL
M081	BL	BL	BL	BL	n.a.

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M082	BL	BL	BL	BL	d.(*1)
M083	BL	BL	BL	BL	d.(*1)
M084	BL	BL	BL	BL	BL
M085	BL	BL	BL	BL	BL
M086	BL	BL	BL	BL	BL
M087	BL	BL	BL	BL	BL
M088	BL	BL	BL	BL	d.(*1)
M089	BL	BL	BL	BL	d.(*1)
M090	BL	BL	BL	BL	d.(*1)
M091	BL	BL	BL	BL	BL
M092	BL	BL	BL	BL	BL
M093	BL	BL	BL	BL	BL
M094	BL	BL	BL	BL	n.a.
M095	BL	BL	BL	BL	d.(*1)
M096	BL	BL	BL	BL	BL
M097	BL	BL	BL	BL	d.(*1)
M098	BL	BL	BL	BL	n.a.
M099	BL	d.(*1)	BL	BL	n.a.
M100	BL	BL	BL	BL	BL
M101	BL	BL	BL	BL	BL
M102	BL	BL	BL	BL	n.a.
M103	BL	BL	BL	BL	d.(*1)
M104	BL	d.(*1)	BL	BL	n.a.
M105	BL	BL	BL	BL	d.(*1)
M106	BL	BL	BL	BL	BL
M107	BL	BL	BL	BL	BL
M108	BL	BL	BL	BL	BL
M109	BL	BL	BL	BL	BL
M110	BL	BL	BL	BL	d.(*1)
M111	BL	BL	BL	BL	BL
M112	BL	BL	BL	BL	BL
M113	BL	BL	BL	BL	BL
M114	BL	BL	d.(*1)	BL	n.a.
M115	BL	BL	BL	BL	d.(*1)
M116	BL	BL	BL	BL	d.(*1)
M117	BL	BL	BL	BL	BL
M118	BL	BL	BL	BL	d.(*1)
M119	BL	BL	BL	BL	n.a.
M120	BL	BL	BL	BL	n.a.
M121	BL	BL	BL	BL	n.a.
M122	BL	BL	BL	BL	BL
M123	BL	BL	BL	BL	n.a.
M124	BL	d.(*1)	BL	BL	n.a.

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M125	BL	BL	BL	BL	n.a.
M126	BL	d.(*1)	BL	BL	n.a.
M127	BL	d.(*1)	BL	BL	n.a.
M128	BL	d.(*1)	BL	BL	n.a.
M129	BL	BL	BL	BL	BL
M130	BL	BL	BL	BL	BL
M131	BL	BL	BL	BL	BL
M132	BL	BL	BL	BL	BL
M133	BL	BL	BL	BL	n.a.
M134	BL	BL	BL	BL	BL
M135	BL	BL	BL	BL	BL
M136	BL	BL	BL	BL	BL
M137	BL	BL	BL	BL	BL
M138	BL	BL	BL	BL	BL
M139	BL	BL	BL	BL	BL
M140	BL	BL	BL	BL	BL
M141	BL	BL	BL	BL	BL
M142	BL	BL	BL	BL	n.a.
M143	BL	BL	BL	BL	BL
M144	BL	BL	BL	BL	BL
M145	BL	BL	BL	BL	BL
M146	BL	BL	BL	BL	BL
M150	BL	BL	BL	BL	BL
M155	BL	BL	BL	BL	BL
M156	BL	BL	BL	BL	BL
M157	BL	BL	BL	BL	BL
M158	BL	BL	BL	BL	BL
M159	BL	BL	BL	BL	BL
M160	BL	BL	BL	BL	BL
M161	BL	BL	BL	BL	BL
M162	BL	BL	BL	BL	BL
M163	BL	BL	BL	BL	BL
M164	BL	BL	BL	BL	BL
M165	BL	BL	BL	BL	BL
M166	BL	BL	BL	BL	BL
M167	BL	d.(*1)	BL	BL	n.a.
M168	BL	BL	BL	BL	BL
M169	BL	BL	BL	BL	BL
M170	BL	BL	BL	BL	BL
M171	BL	BL	BL	BL	BL
M172	BL	BL	BL	BL	BL
M173	BL	BL	BL	BL	BL
M174	BL	BL	BL	BL	BL

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M175	BL	BL	BL	BL	d.(*1)
M176	BL	BL	BL	BL	BL
M177	BL	BL	BL	BL	BL
M178	BL	BL	BL	BL	n.a.
M179	BL	BL	BL	BL	BL
M180	BL	BL	BL	BL	BL
M181	BL	BL	BL	BL	n.a.
M182	BL	BL	BL	BL	d.(*1)
M183	BL	BL	BL	BL	BL
M184	BL	BL	BL	BL	BL
M185	BL	BL	BL	BL	d.(*1)
M186	BL	d.(*1)	BL	BL	n.a.
M187	BL	BL	BL	BL	BL
M188	BL	BL	BL	BL	d.(*1)
M189	BL	BL	BL	BL	BL
M190	BL	d.(*1)	BL	BL	n.a.
M191	BL	BL	BL	BL	d.(*1)
M192	BL	d.(*1)	BL	BL	n.a.
M193	BL	BL	BL	BL	d.(*1)
M194	BL	BL	BL	BL	n.a.
M195	BL	d.(*1)	BL	BL	n.a.
M196	BL	BL	BL	BL	d.(*1)
M197	BL	BL	BL	BL	n.a.
M198	BL	BL	d.(*1)	BL	n.a.
M199	BL	d.(*1)	BL	BL	n.a.
M200	BL	d.(*1)	BL	BL	n.a.
M201	BL	BL	BL	BL	d.(*1)
M202	BL	d.(*1)	BL	BL	n.a.
M203	BL	BL	d.(*1)	BL	n.a.
M204	BL	BL	BL	BL	BL
M205	BL	BL	BL	BL	BL
M206	BL	d.(*1)	BL	BL	n.a.
M207	BL	BL	BL	BL	BL
M208	BL	BL	BL	BL	n.a.
M209	BL	BL	BL	BL	d.(*1)
M210	BL	BL	BL	BL	BL
M211	BL	BL	BL	BL	BL
M212	BL	BL	BL	BL	d.(*1)
M213	BL	BL	BL	BL	BL
M214	BL	BL	BL	BL	BL
M215	BL	BL	BL	BL	n.a.
M216	BL	BL	BL	BL	d.(*1)
M217	BL	BL	BL	BL	n.a.

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M218	BL	BL	BL	BL	d.(*1)
M219	BL	BL	BL	BL	BL
M220	BL	BL	BL	BL	n.a.
M221	BL	BL	BL	BL	d.(*1)
M222	BL	BL	BL	BL	BL
M223	BL	BL	BL	BL	BL
M224	BL	BL	BL	BL	BL
M225	BL	BL	d.(*1)	BL	BL
M226	BL	BL	BL	BL	BL
M227	BL	BL	BL	BL	BL
M228	BL	BL	BL	BL	n.a.
M229	BL	BL	BL	BL	BL
M230	BL	BL	BL	BL	n.a.
M231	BL	BL	BL	BL	BL
M232	BL	BL	BL	BL	n.a.
M233	BL	BL	BL	BL	d.(*1)
M234	BL	BL	BL	BL	BL
M235	BL	BL	BL	BL	BL
M236	BL	BL	BL	BL	BL
M237	BL	BL	BL	BL	d.(*1)
M238	BL	BL	BL	BL	BL
M239	BL	BL	BL	BL	n.a.
M240	BL	BL	BL	BL	n.a.
M241	BL	BL	BL	BL	BL
M242	BL	d.(*1)	BL	BL	n.a.
M243	BL	d.(*1)	BL	BL	n.a.
M244	BL	BL	BL	BL	n.a.
M245	BL	BL	BL	BL	BL
M246	BL	BL	BL	BL	BL
M247	BL	BL	BL	BL	BL
M248	BL	BL	BL	BL	BL
M249	BL	BL	d.(*1)	BL	n.a.
M250	BL	BL	BL	BL	n.a.
M251	BL	BL	BL	BL	d.(*1)
M252	BL	BL	BL	BL	BL
M253	BL	d.(*1)	BL	BL	n.a.
M254	BL	BL	BL	BL	BL
M255	BL	BL	BL	BL	BL
M256	BL	BL	BL	BL	BL
M257	BL	BL	d.(*1)	BL	n.a.
M258	BL	BL	BL	BL	BL
M259	BL	BL	BL	BL	BL
M260	BL	BL	BL	BL	BL

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M261	BL	BL	BL	BL	d.(*1)
M262	BL	BL	BL	BL	BL
M263	BL	BL	BL	BL	BL
M264	BL	BL	BL	BL	BL
M265	BL	BL	d.(*1)	BL	n.a.
M266	BL	d.(*1)	BL	BL	n.a.
M267	BL	d.(*1)	BL	BL	n.a.
M268	BL	d.(*1)	BL	BL	n.a.
M269	BL	d.(*1)	BL	BL	n.a.
M270	BL	d.(*1)	BL	BL	n.a.
M271	BL	d.(*1)	BL	BL	n.a.
M272	BL	d.(*1)	BL	BL	n.a.
M273	BL	d.(*1)	BL	BL	n.a.
M274	BL	d.(*1)	BL	BL	n.a.
M275	BL	d.(*1)	BL	BL	n.a.
M276	BL	d.(*1)	BL	BL	n.a.
M066-1	BL	BL	BL	BL	n.a.
M147-1	BL	BL	BL	BL	BL
M148-1	BL	BL	BL	BL	BL
M149-1	BL	BL	BL	BL	BL
M151-1	BL	BL	BL	BL	BL
M152-1	BL	BL	BL	BL	BL
M153-1	BL	BL	BL	BL	BL
M154-1	BL	BL	BL	BL	BL

Abbreviation: Pb = Lead
 Cd = Cadmium
 Hg = Mercury
 Cr = Chromium
 Br = Bromine
 n.a. = Not applicable
 BL = Below limit
 OL = Over limit
 d. = Detected

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Remark:

- (*1) The screening result was detected in the inconclusive region or over limits, thus the further wet chemistry tests are suggested.
- (*2) Component(s)/ materials(s) with an area of less than 2 mm x 2 mm will not be selected for testing according to RoHS Directive 2011/65/EU due to technical reason.
 For the test sample does not have detail materials information provided by client, visually identical materials (e.g. wire insulation, solder points, etc.) will be considered as the same material.
 Solder points on a printing circuit board will be examined several times based on optical anomalies or discoloration of the solder point(s) unless the solder point(s) is obviously generated automatically during production.
 All other materials will be sampled and tested at one test point representatively.
- (*3) The Chromium (Cr) and Bromine (Br) in the above result table indicate the total chromium and total bromine by means of XRF screening. PBBs, or PBDEs content shall be further confirmed with reference to IEC 62321-6:2015. Chromium (VI) shall be further confirmed with reference to IEC 62321-7-1:2015, IEC 62321-7-2:2017 or EN ISO 17075-1:2017.

XRF Screening limits for different matrices :

Material	Concentration (%)				
	Cd	Cr	Pb	Hg	Br
Polymeric	BL≤0.006<X<0.014≤ OL	BL≤0.064<X	BL≤0.067<X<0.133≤ OL	BL≤0.066<X< 0.134≤OL	BL≤0.029<X
Metallic	BL≤0.006<X<0.014≤ OL	BL≤0.064<X	BL≤0.067<X<0.133≤ OL	BL≤0.066<X< 0.134≤OL	n.a.
Composite materials	BL≤0.004<X<0.016≤ OL	BL≤0.044<X	BL≤0.047<X<0.153≤ OL	BL≤0.046<X< 0.154≤OL	BL≤0.024<X

Remark: The symbol "X" marks the region where further investigation is necessary.

	Cd	Cr(VI)	Pb	Hg	PBBs	PBDEs
Maximum permissible Limit (%)	0.01	0.1	0.1	0.1	0.1	0.1

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2.Cadmium, Lead, Chromium (VI), Mercury, Polybrominated biphenyls (PBB) and Polybrominated diphenyl ethers (PBDE)

Test Method: Total Cadmium, Lead, Mercury, Chromium
 - Ref. to IEC 62321-4:2013+AMD1:2017 and IEC 62321-5:2013

Chromium (VI)
 - For Metal material - Ref. to IEC 62321-7-1:2015
 - For Polymer, Electronic material or others materials – Ref. to IEC 62321-7-2:2017

PBBs, PBDEs – Ref. to IEC 62321-6:2015

Test Result:

	Cd	Cr(VI)	Pb	Hg	PBBs	PBDEs
Maximum Permissible Limit (%)	0.01	0.1	0.1	0.1	0.1	0.1

Material No.	(%)					
	Cd	Cr^{VI}	Pb	Hg	PBBs	PBDEs
	RL (%)					
	0.001	0.001	0.001	0.001	0.01	0.01
M034	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M038	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M044	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M048	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M050	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M051	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M052	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M063	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M067	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M076	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M082	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M083	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M088	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M089	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M090	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M095	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M097	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M103	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M105	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M110	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M114	n.a.	n.a.	2.46 (*2)	n.a.	n.a.	n.a.

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M115	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M116	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M118	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M175	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M182	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M185	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M188	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M191	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M193	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M196	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M198	n.a.	n.a.	2.54 (*2)	n.a.	n.a.	n.a.
M201	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M203	n.a.	n.a.	3.29 (*2)	n.a.	n.a.	n.a.
M209	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M212	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M216	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M218	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M221	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M225	n.a.	n.a.	15.3 (*3)	n.a.	n.a.	n.a.
M233	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M237	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M249	n.a.	n.a.	2.88 (*2)	n.a.	n.a.	n.a.
M251	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M257	n.a.	n.a.	2.61 (*2)	n.a.	n.a.	n.a.
M261	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M265	n.a.	n.a.	2.90 (*2)	n.a.	n.a.	n.a.

Material No.	Chromium VI content for metal materials (µg/cm²) (*1) RL: 0.10 µg/cm²
M006	Negative
M007	Negative
M008	Negative
M032	Negative
M064	Negative
M079	Negative
M099	Negative
M104	Negative

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M124	Negative
M126	Negative
M127	Negative
M128	Negative
M167	Negative
M186	Negative
M190	Negative
M192	Negative
M195	Negative
M199	Negative
M200	Negative
M202	Negative
M206	Negative
M242	Negative
M243	Negative
M253	Negative
M266	Negative
M267	Negative
M268	Negative
M269	Negative
M270	Negative
M271	Negative
M272	Negative
M273	Negative
M274	Negative
M275	Negative
M276	Negative

Material No.	Chromium VI content for other materials (%) RL: 0.01%
M058	< RL

Abbreviation:

Pb	=	Lead
Cd	=	Cadmium
Hg	=	Mercury
Cr	=	Chromium
Cr (VI)	=	Chromium (VI)
PBBs	=	Total Polybrominated Biphenyls
PBDEs	=	Total Polybrominated Diphenyl Ethers
<	=	Less than
RL	=	Reporting Limit
n.a.	=	Not Applicable
^	=	The total Chromium have been determined
%	=	Percentage

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Remark:

- (*1) The Chromium (VI) content of metal sample in surface layer have been confirmed with reference to IEC 62321-7-1:2015 Annex.

	Chromium (VI) concentration	Qualitative result
Negative	$<0.1\mu\text{g}/\text{cm}^2$	The sample is negative (-ve) for Cr(VI). The Cr(VI) concentration is below the limit of quantification. The coating is considered a non-Cr(VI) based coating
Inconclusive	$\geq 0.1\mu\text{g}/\text{cm}^2$ and $\leq 0.13\mu\text{g}/\text{cm}^2$	The result is considered to be inconclusive. Unavoidable coating variations may influence the determination. Recommendation: if additional samples are available, perform a total of 3 trials to increase sampling surface area. Use the averaged result of the 3 trials for the final determination.
Positive	$>0.13\mu\text{g}/\text{cm}^2$	The sample is positive (+ve) for Cr(VI). Concentration is above the limit of quantification and the statistical margin of error. The sample coating is considered to contain Cr(VI).

- (*2) According to Annex III of directive 2011/65/EU, Lead as an alloying element in copper alloy containing up to 4 % lead by weight
- (*3) According to 2012/50/EU and Annex III of directive 2011/65/EU, Lead in the following electrical & electronic components is exempted from requirement.
 1. Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound.

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3. BBP, DBP, DEHP, DIBP content

Test Method: ref. to IEC 62321-8:2017

Test Result:

	BBP	DBP	DEHP	DIBP
Maximum permissible Limit (%)	0.1	0.1	0.1	0.1

Test No.	Material No.	RL (%)			
		BBP	DBP	DEHP	DIBP
		RL (%)			
		0.005	0.005	0.005	0.005
T001	M001 + M005	< RL	< RL	< RL	< RL
T002	M003 + M004 + M030 + M045 + M046	< RL	< RL	< RL	< RL
T003	M065 + M069 + M080 + M189 + M205	< RL	< RL	< RL	< RL
T004	M027 + M074 + M101	< RL	< RL	< RL	< RL
T005	M013 + M015 + M016 + M017 + M021	< RL	< RL	< RL	< RL
T006	M022 + M026 + M029 + M035 + M037	< RL	< RL	< RL	< RL
T007	M012 + M025 + M031 + M034 + M036	< RL	< RL	< RL	< RL
T008	M047 + M061 + M071 + M072 + M145	< RL	< RL	< RL	< RL
T009	M091 + M092 + M135 + M136 + M137	< RL	< RL	< RL	< RL
T010	M138 + M139 + M140 + M141 + M155	< RL	< RL	< RL	< RL
T011	M159 + M160 + M161 + M162 + M163	< RL	< RL	< RL	< RL
T012	M063 + M067 + M068 + M076 + M082	< RL	< RL	< RL	< RL
T013	M086 + M087 + M089 + M095 + M103	< RL	< RL	< RL	< RL
T014	M106 + M107 + M108 + M109 + M111	< RL	< RL	< RL	< RL
T015	M105 + M110 + M115 + M116 + M117	< RL	< RL	< RL	< RL

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T016	M112 + M113 + M122 + M165 + M168	< RL	< RL	< RL	< RL
T017	M129 + M130 + M131 + M132 + M134	< RL	< RL	< RL	< RL
T018	M118 + M143 + M156 + M158 + M166	< RL	0.011	< RL	< RL
T019	M170 + M171 + M172 + M173 + M174	< RL	< RL	< RL	< RL
T020	M175 + M176 + M177 + M180 + M182	< RL	< RL	< RL	< RL
T021	M183 + M184 + M187 + M213 + M214	< RL	< RL	< RL	< RL
T022	M185 + M188 + M191 + M193 + M196	< RL	< RL	< RL	< RL
T023	M201 + M204 + M209 + M210 + M216	< RL	< RL	< RL	< RL
T024	M218 + M219 + M221 + M226 + M231	< RL	< RL	< RL	< RL
T025	M233 + M234 + M237 + M238 + M245	< RL	< RL	< RL	< RL
T026	M235 + M236 + M241 + M246 + M247	< RL	< RL	< RL	< RL
T027	M251 + M252 + M258 + M261 + M262	< RL	< RL	0.011	< RL
T028	M254 + M255 + M256 + M259 + M260	< RL	< RL	< RL	< RL
T029	M042 + M048 + M169 + M179 + M263	< RL	< RL	< RL	< RL
T030	M144 + M146	< RL	< RL	< RL	< RL
T031	M207 + M229 + M248	< RL	< RL	< RL	< RL
T032	M264	< RL	< RL	< RL	< RL
T033	M038 + M040 + M044 + M059	< RL	< RL	< RL	< RL
T034	M150	< RL	0.082	< RL	< RL
T035	M157	< RL	< RL	< RL	< RL
T036	M164	< RL	< RL	< RL	< RL
T037	M147-1 + M148-1 + M149-1	< RL	< RL	< RL	< RL

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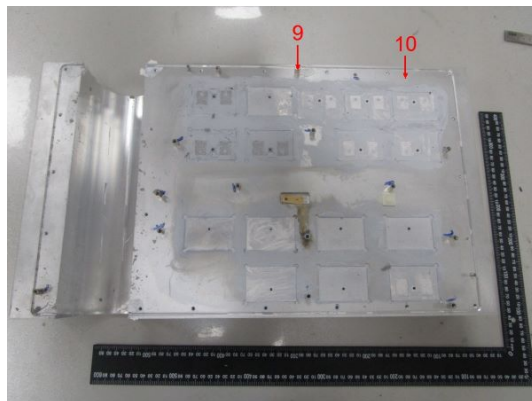
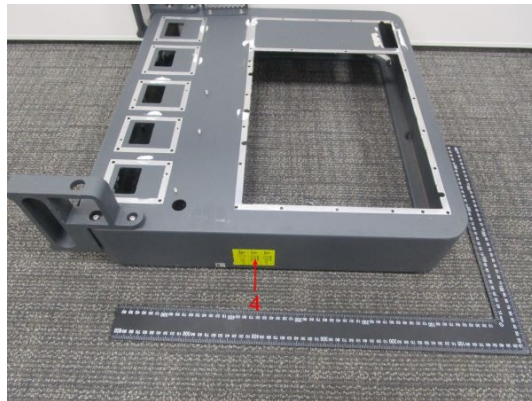
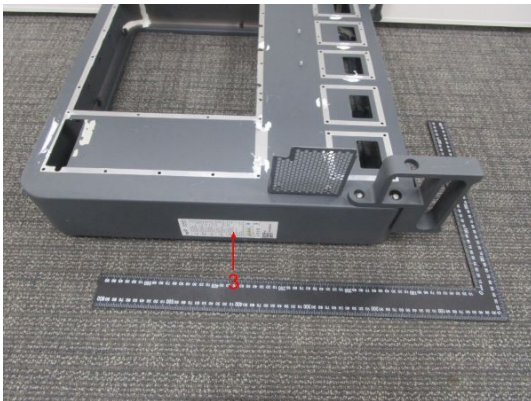
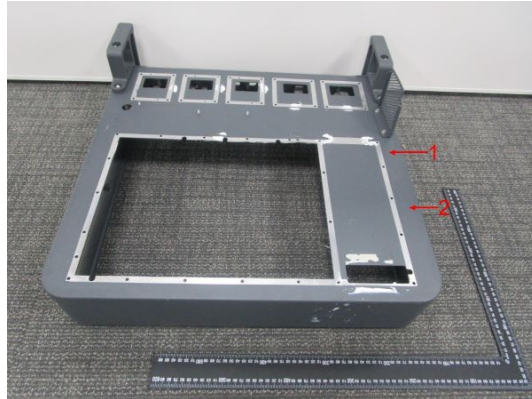
T038	M151-1 + M152-1 + M153-1 + M154- 1	< RL	< RL	< RL	< RL
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Abbreviation: BBP= Benzylbutyl phthalate
DBP= Dibutyl phthalate
DEHP= Bis(2-ethylhexyl) phthalate
DIBP= Diisobutyl phthalate
< = less than
RL = Reporting Limit
%= percentage

Remark:

- * The maximum permissible limit is required from the amendment (EU) 2015/863 of RoHS Directive 2011/65/EU.

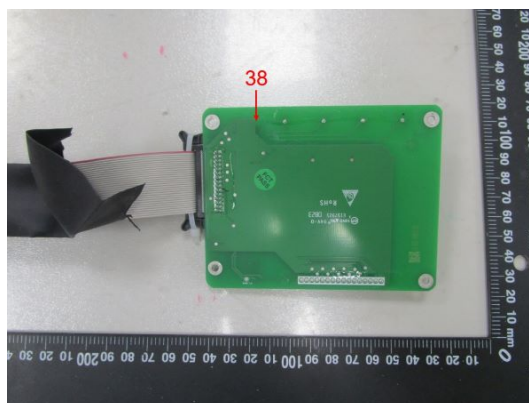
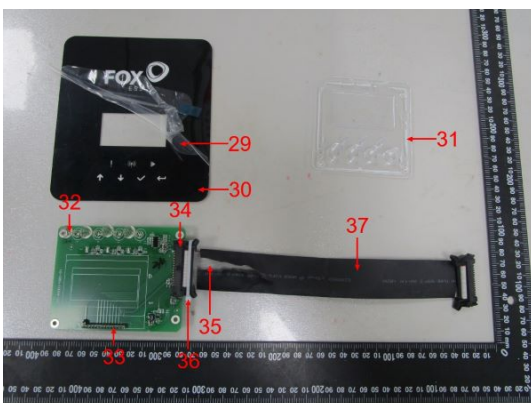
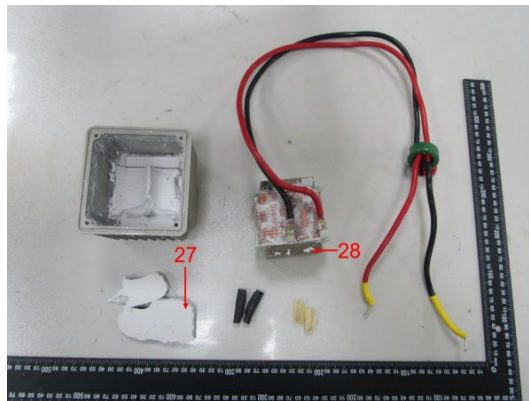
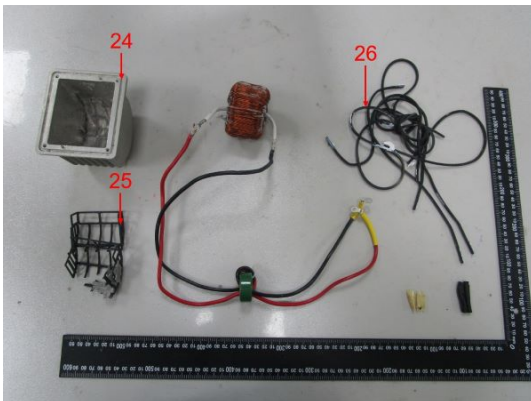
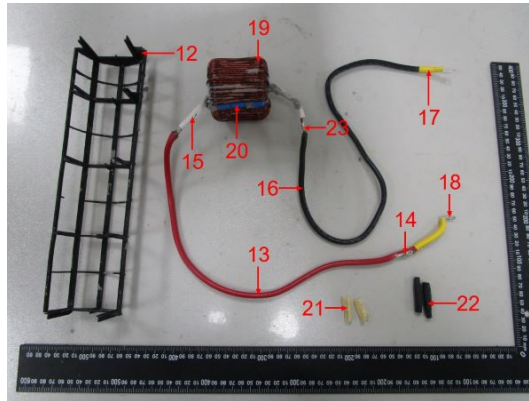
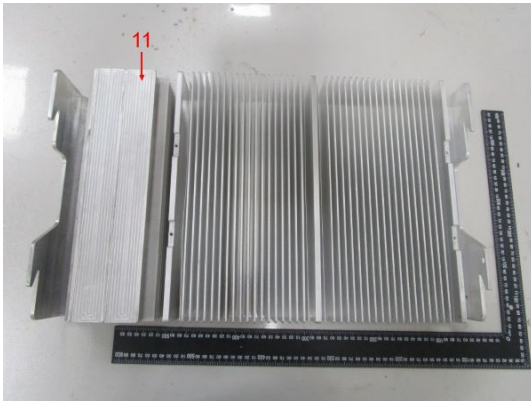
Sample Photos



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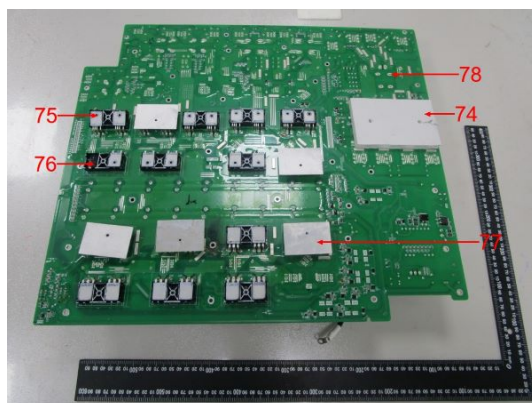
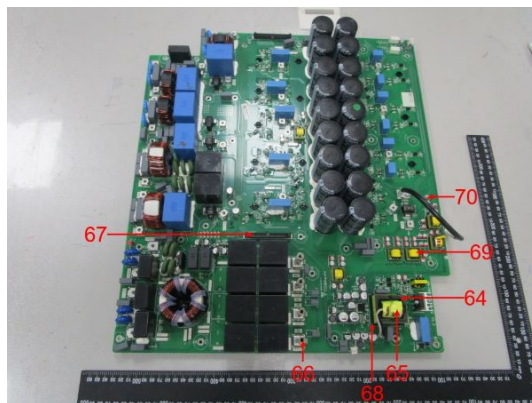
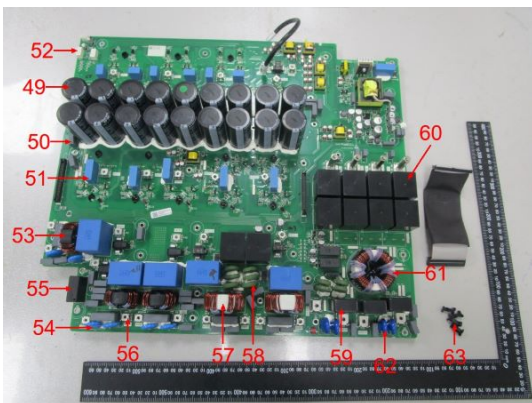
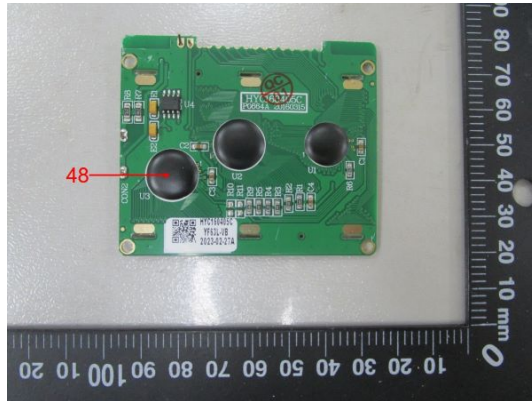
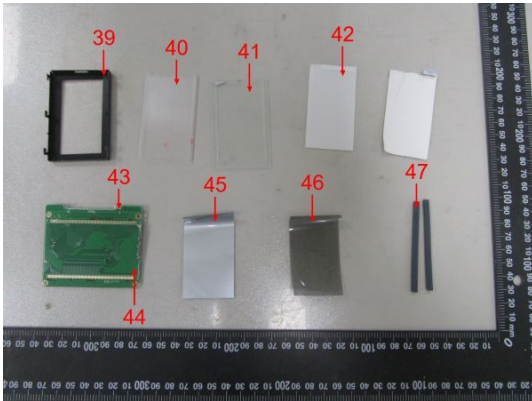
Sample Photos



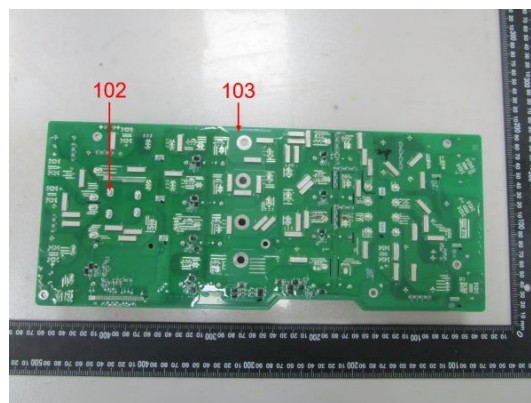
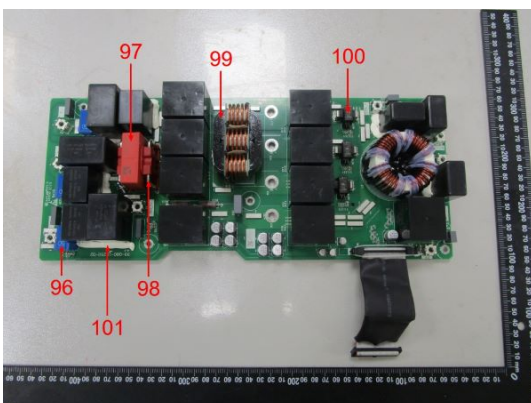
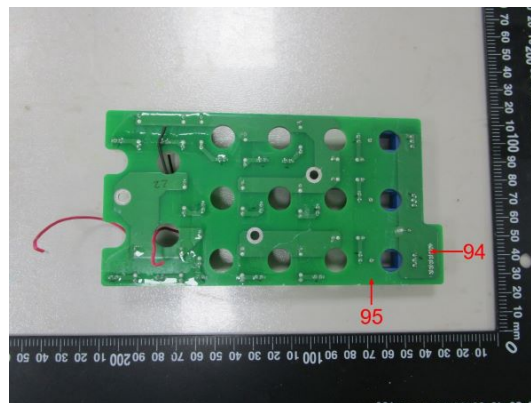
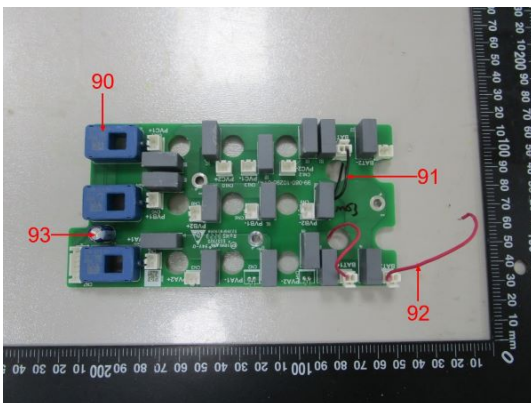
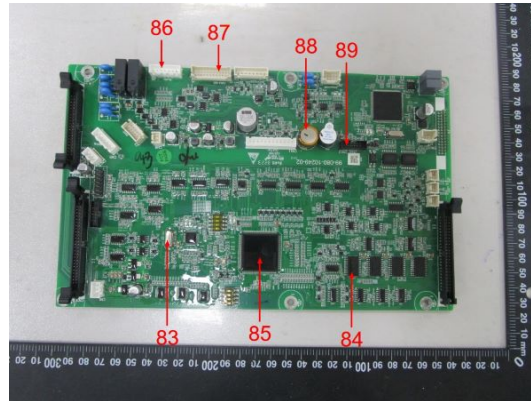
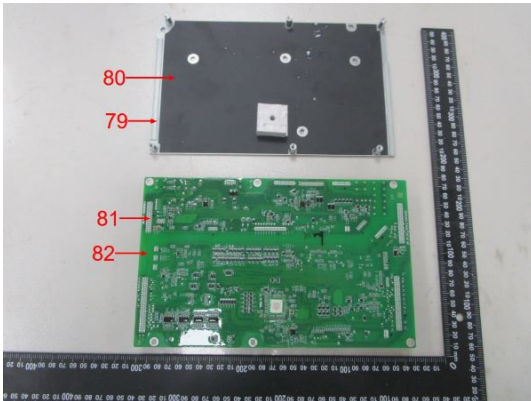
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Sample Photos



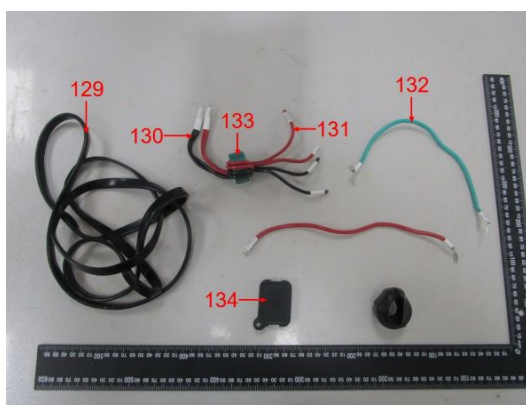
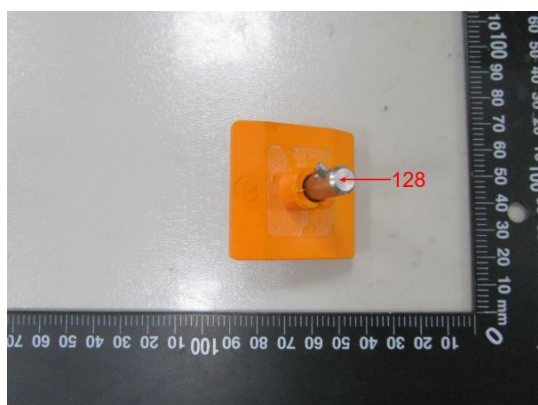
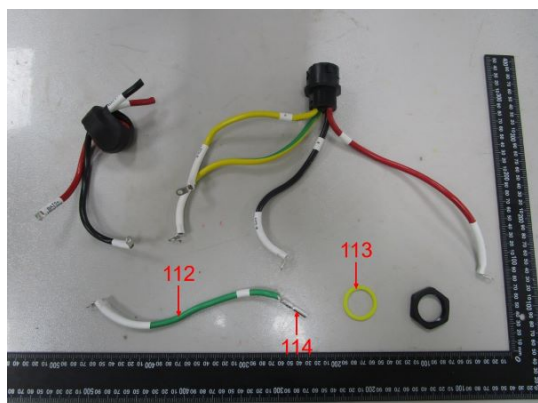
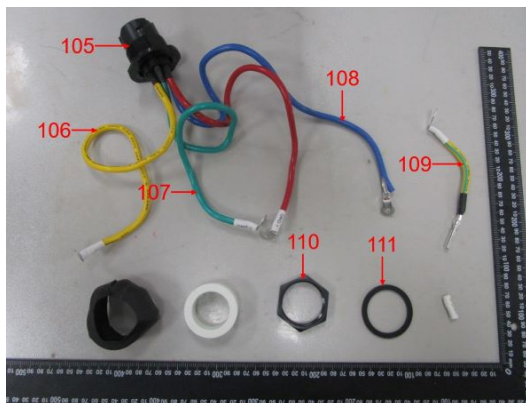
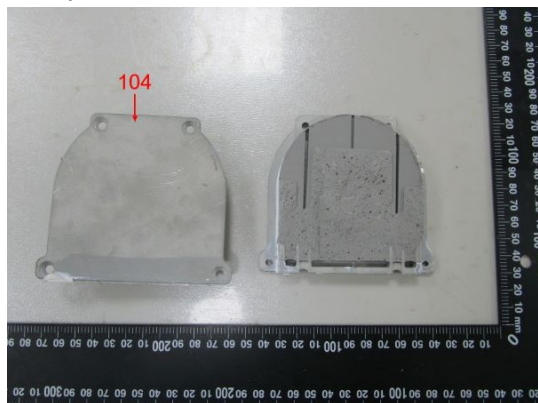
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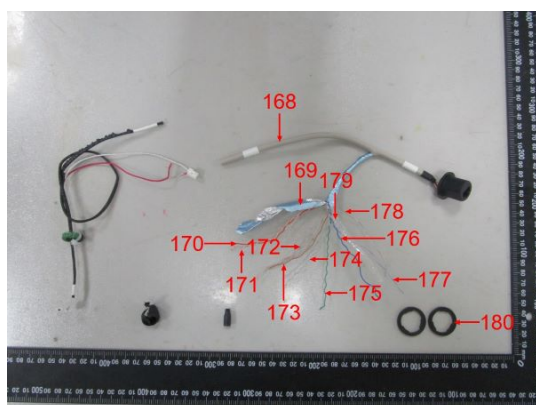
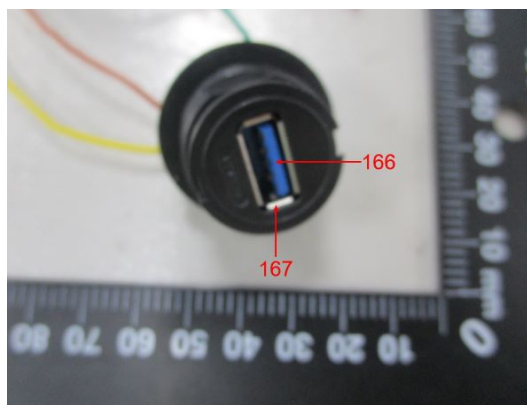
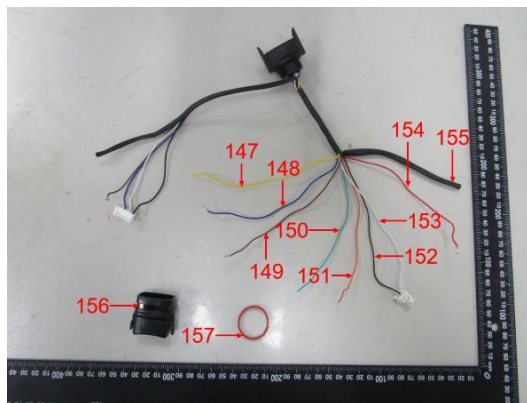
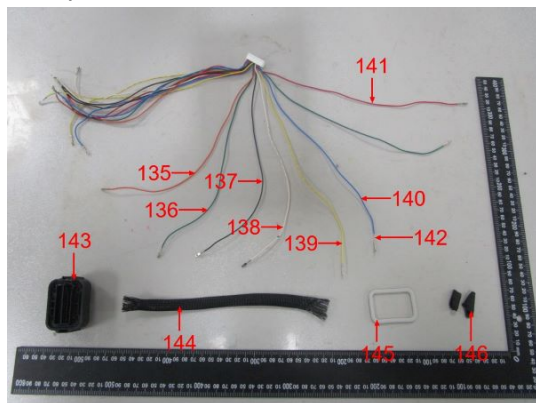
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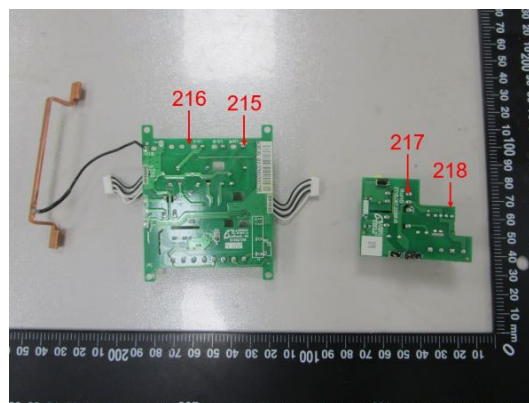
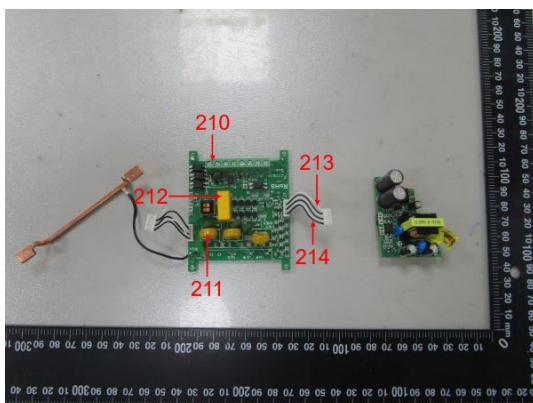
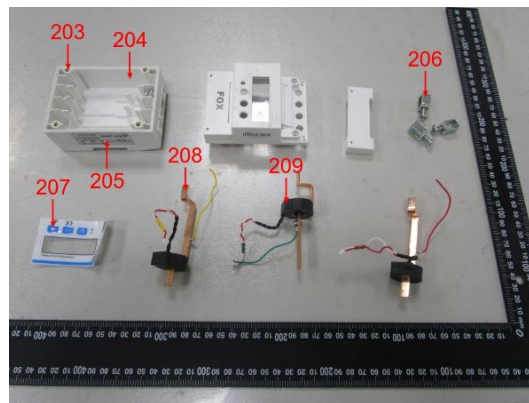
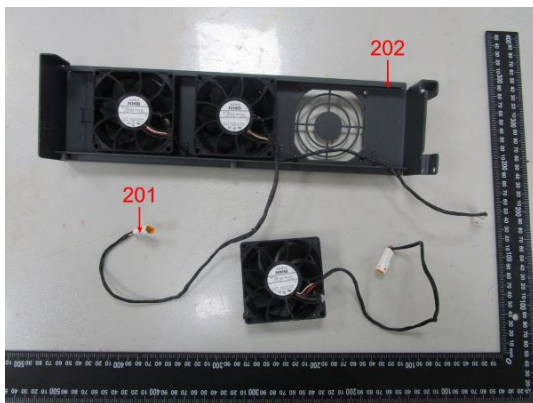
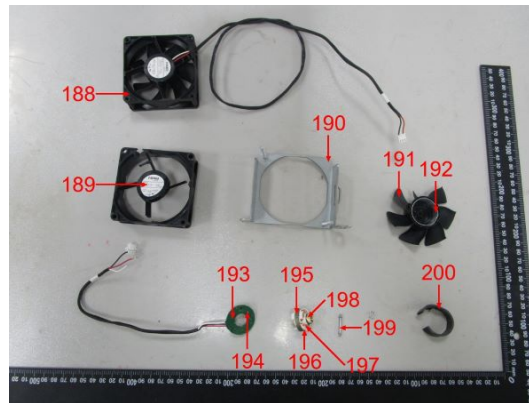
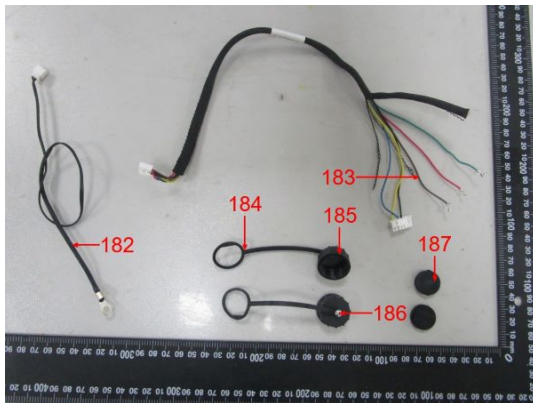
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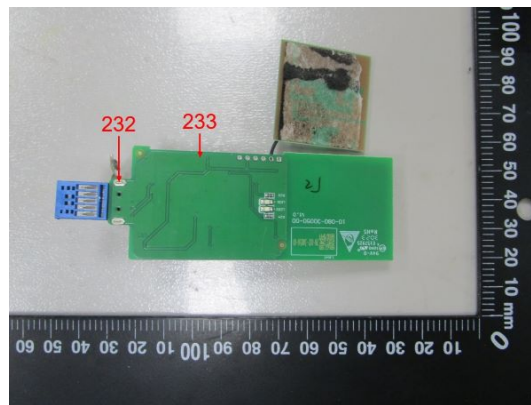
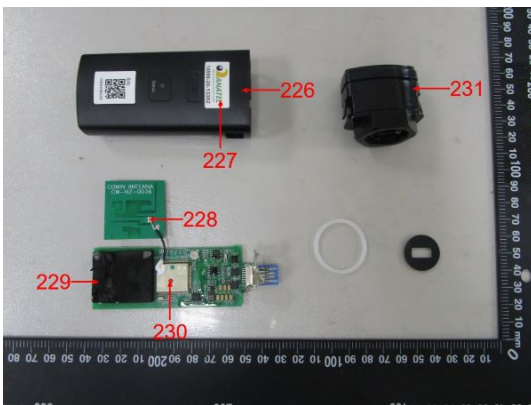
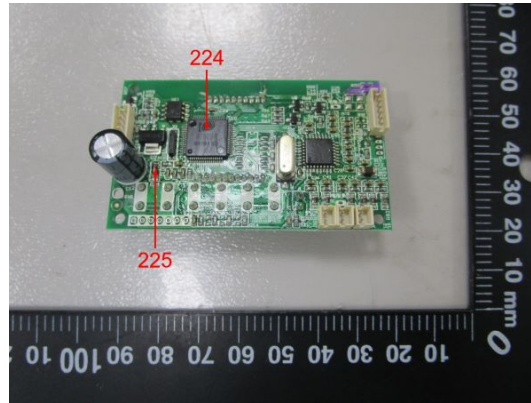
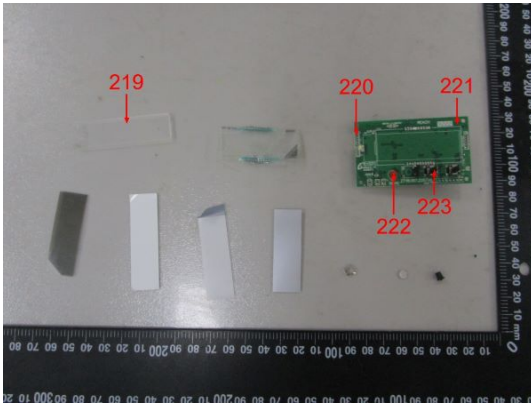
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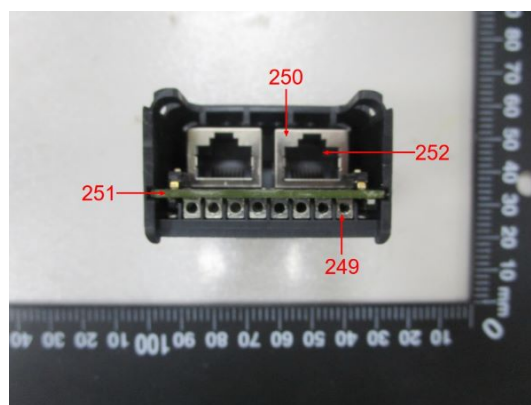
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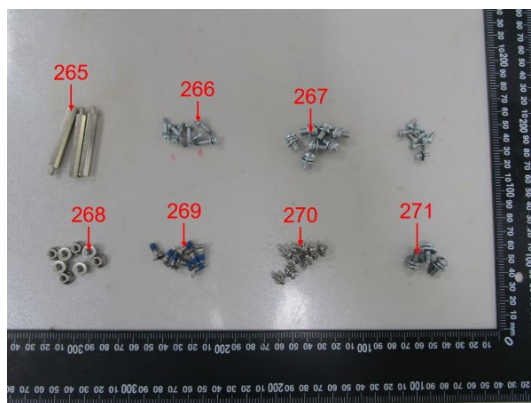
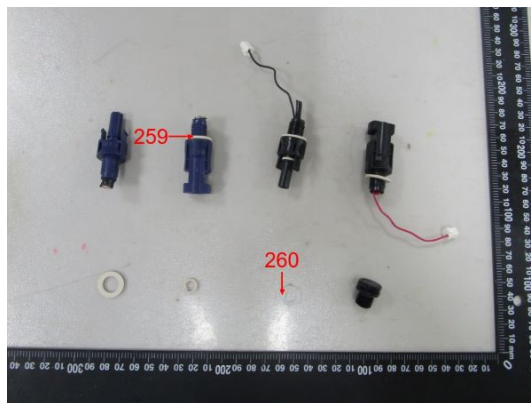
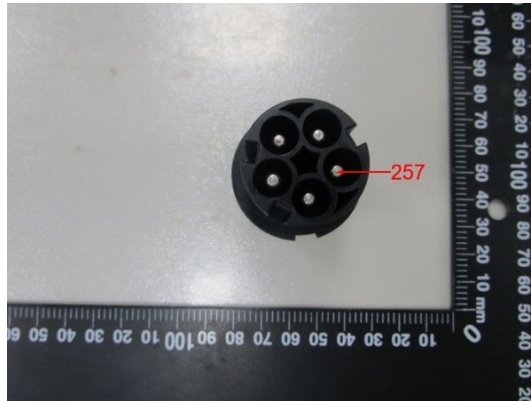
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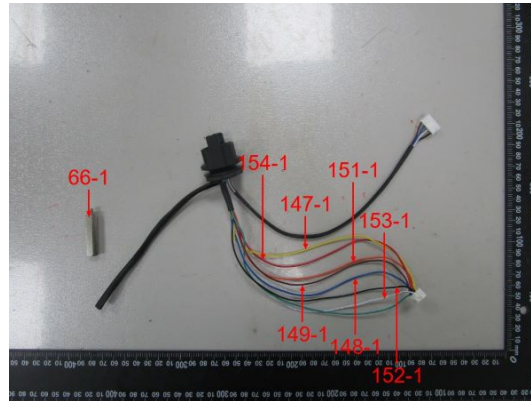
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