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Client: SHENZHEN EN PLUS TECH CO., LTD.

Contact Information: 3 Plants 1-6 Floors, 6 Plants 201 、 301, Nangang No.2 Industrial Park,
No. 1026 Songbai Road, Yangguang Community, Xili Street, Nanshan
District, Shenzhen, Guangdong, P.R.China

Test item(s): 316 materials

**Identification/
Model No(s):** EV AC Charger
AC7000-AE-45C3-ENP, AC7000-BE-45C3-ENP, AC7000-TE-45C3-
ENP, AC7000-AB-45C3-ENP, AC7000-BB-45C3-ENP, AC011K-
AE-55C3-ENP, AC7000-AE-45C1-ENP

Sample obtaining method: Sending by customer

Condition at delivery: Test item complete and undamaged.

Sample Receiving date: 2025-09-11

Testing Period: 2025-09-17 to 2025-10-09

Place of testing: Chemical laboratory Shenzhen

Test Specification:

1. Cadmium, Lead, Chromium (VI), Mercury, Polybrominated biphenyls (PBB) and Polybrominated diphenyl ethers (PBDE), ROHS Phthalates (BBP, DBP, DEHP, DIBP)
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 Directive (EU) 2015/863

Test result:

PASS

For and on behalf of
TÜV Rheinland (Shenzhen) Co., Ltd.



2025-11-19

Grid Guo / Engineer

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: EV AC Charger

AC7000-AE-45C3-ENP, AC7000-BE-45C3-ENP, AC7000-TE-45C3-ENP, AC7000-AB-45C3-ENP, AC7000-BB-45C3-ENP, AC011K-AE-55C3-ENP, AC7000-AE-45C1-ENP

Material No.	Material	Color	Location
A004	Plastic	black	Refer to photo
A005	Plastic	grey	Refer to photo
A006	Plastic	black	Refer to photo
A007	Plastic	black	Refer to photo
A008	Plastic + printing + adhesive	black/ white	Refer to photo
A009	Plastic	black	Refer to photo
A010	Plastic	black	Refer to photo
A011	Plastic	black	Refer to photo
A012	Plastic	transparent	Refer to photo
A013	Plastic	white	Refer to photo
A014	Plastic	transparent	Refer to photo
A015	Metal + plating	black	Refer to photo
A016	Electronic components	grey	Refer to photo
A017	Electronic components	black	Refer to photo
A018	Electronic components	black	Refer to photo
A019	Electronic components	black	Refer to photo
A020	Plastic	white	Refer to photo
A021	Plastic	black	Refer to photo
A022	Plastic	black	Refer to photo
A023	Plastic	white	Refer to photo
A024a	Plastic + printing	white/ red	Refer to photo
A024b	Metal	silver	Refer to photo
A025	PCB board	green	Refer to photo
A026	Electronic components	brown	Refer to photo
A027	Electronic components	white	Refer to photo
A028	Metal	golden	Refer to photo
A029	Metal	golden	Refer to photo

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A030	Metal	silver	Refer to photo
A031	Plastic + adhesive	black	Refer to photo
A032	Metal	silver	Refer to photo
A033	Metal	silver	Refer to photo
A034	Metal	silver	Refer to photo
A035	Metal	silver	Refer to photo
A036	Metal	silver	Refer to photo
A037	Metal	silver	Refer to photo
A038	Plastic	white	Refer to photo
A039	PCB board	green	Refer to photo
A040	Plastic	light green	Refer to photo
A041	Plastic	black	Refer to photo
A042	Electronic components	black	Refer to photo
A043	Electronic components	black	Refer to photo
A044	Electronic components	black	Refer to photo
A045	Electronic components	black	Refer to photo
A046	Electronic components	brown	Refer to photo
A047	Electronic components	black	Refer to photo
A048	Electronic components	black	Refer to photo
A049	Metal	silver	Refer to photo
A050	Metal	silver	Refer to photo
A051	Plastic	beige	Refer to photo
A052	Metal	silver	Refer to photo
A053	Electronic components	black	Refer to photo
A054	Electronic components	black	Refer to photo
A055	Electronic components	black	Refer to photo
A056	Electronic components	black	Refer to photo
A057	Electronic components	black	Refer to photo
A058	Metal	golden	Refer to photo
A059	PCB board	black	Refer to photo
A060	Solder	silver	Refer to photo
A061	Metal	silver	Refer to photo

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A062	Plastic	black	Refer to photo
A063	PCB board	green	Refer to photo
A064	Plastic	black	Refer to photo
A065	Metal	silver	Refer to photo
A066a	Plastic	black	Refer to photo
A067	Plastic	black	Refer to photo
A068	Plastic	black	Refer to photo
A069	Plastic	black	Refer to photo
A070	Glue	black	Refer to photo
A071a	Plastic	red	Refer to photo
A072a	Plastic	black	Refer to photo
A073a	Plastic	yellow	Refer to photo
A074a	Plastic	blue	Refer to photo
A075	PCB board	light green	Refer to photo
A076	Electronic components	blue	Refer to photo
A077	Electronic components	light green	Refer to photo
A078	Electronic components	black	Refer to photo
A079	Electronic components	black	Refer to photo
A080	Electronic components	brown	Refer to photo
A081	Plastic	black	Refer to photo
A082	Plastic + printing	dark blue/ grey	Refer to photo
A083	Metal	silver	Refer to photo
A084	Plastic	black	Refer to photo
A085	Plastic + printing	black/ grey	Refer to photo
A086	Metal	silver	Refer to photo
A087	Paper	white	Refer to photo
A088	Plastic	black	Refer to photo
A089	Metal	silver	Refer to photo
A090	Electronic components	black	Refer to photo
A091	Electronic components	black	Refer to photo
A092	Electronic components	black	Refer to photo
A093	Electronic components	black	Refer to photo

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A094	Electronic components	black	Refer to photo
A095	Electronic components	black	Refer to photo
A096	Electronic components	black	Refer to photo
A097	Plastic	white	Refer to photo
A098	Electronic components	black	Refer to photo
A099	Electronic components	black	Refer to photo
A100	Plastic + printing + adhesive	yellow/ black	Refer to photo
A101	Plastic	white	Refer to photo
A102	Magnet	grey	Refer to photo
A103	Metal	silver	Refer to photo
A104	Electronic components	black	Refer to photo
A105	Electronic components	black	Refer to photo
A106	Plastic	grey	Refer to photo
A107	Plastic	black	Refer to photo
A108	Metal	copper	Refer to photo
A109	Plastic	red	Refer to photo
A110	Electronic components	yellow	Refer to photo
A111	Electronic components	black	Refer to photo
A112	Electronic components	black	Refer to photo
A113	Electronic components	black	Refer to photo
A114	Electronic components	black	Refer to photo
A115	Electronic components	black	Refer to photo
A116	Electronic components	black	Refer to photo
A117	Electronic components	black	Refer to photo
A118	Electronic components	black	Refer to photo
A119	Electronic components	black	Refer to photo
A120	Solder	silver	Refer to photo
A121	Plastic	black	Refer to photo
A122	Plastic + printing	white/ black	Refer to photo
A123a	Plastic	blue	Refer to photo
A124a	Plastic	brown	Refer to photo
A124b	Metal	copper	Refer to photo

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A125a	Plastic	yellow-green	Refer to photo
A126a	Plastic	pink	Refer to photo
A127a	Plastic	pink-red	Refer to photo
A128	Metal	silver	Refer to photo
A129	Plastic + printing	black/ beige	Refer to photo
A130	Plastic	black	Refer to photo
A131	Metal	silver	Refer to photo
A132	Metal	silver	Refer to photo
A133	Metal	silver	Refer to photo
A134	Metal	golden	Refer to photo
A135	Plastic	black	Refer to photo
A136	Plastic	dark red	Refer to photo
A137	Plastic	red	Refer to photo
A138	Metal	silver	Refer to photo
A139	Plastic + adhesive	yellow	Refer to photo
A140	Plastic	black	Refer to photo
A141	Plastic	black	Refer to photo
A142	Plastic	white	Refer to photo
A143	Plastic	transparent	Refer to photo
A143a	Plastic	black/ white	Refer to photo
A144	Metal	silver	Refer to photo
A145	Metal	silver	Refer to photo
A146	Paper + printing + adhesive	white/ black	Refer to photo
A147a	Coating	black	Refer to photo
A147b	Plastic	black	Refer to photo
A148	Plastic	black	Refer to photo
A149	PCB board	green	Refer to photo
A150	Plastic	black	Refer to photo
A151	Plastic	black	Refer to photo
A152	Electronic components	black	Refer to photo
A153	Electronic components	black	Refer to photo
A154	Electronic components	black	Refer to photo

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A155	Electronic components	black	Refer to photo
A156	Electronic components	black	Refer to photo
A157	Electronic components	black	Refer to photo
A158	Electronic components	black	Refer to photo
A159	Electronic components	black	Refer to photo
A160	Electronic components	black	Refer to photo
A161	Electronic components	black	Refer to photo
A162	Electronic components	black	Refer to photo
A163	Electronic components	black	Refer to photo
A164	Electronic components	black	Refer to photo
A165	Electronic components	black	Refer to photo
A166	Solder	silver	Refer to photo
A167	PCB board	green	Refer to photo
A168	Materials intended to leave a trace	silver	Refer to photo
A169	Electronic components	black	Refer to photo
A170	Electronic components	black	Refer to photo
A171	Electronic components	black	Refer to photo
A172	Electronic components	black	Refer to photo
A173	Plastic	black	Refer to photo
A174	Plastic	white	Refer to photo
A175	Metal	silver	Refer to photo
A176	Plastic	grey	Refer to photo
A177	Electronic components	black	Refer to photo
A178	Electronic components	black	Refer to photo
A179	Electronic components	black	Refer to photo
A180	Electronic components	black	Refer to photo
A181	Metal	silver	Refer to photo
A182	Solder	silver	Refer to photo
A183	Electronic components	black	Refer to photo
A184	Electronic components	black	Refer to photo
A185	Electronic components	black	Refer to photo
A186	Electronic components	black	Refer to photo

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A187	Electronic components	black	Refer to photo
A188	Electronic components	black	Refer to photo
A189	Electronic components	black	Refer to photo
A190	Electronic components	black	Refer to photo
A191	PCB board	blue	Refer to photo
A192	Metal	silver	Refer to photo
A193	Metal	silver	Refer to photo
A194	Plastic + plating	black	Refer to photo
A195	Plastic	blue	Refer to photo
A196	Plastic	black	Refer to photo
A197	Plastic	black	Refer to photo
A198	Metal	silver	Refer to photo
A201	Metal	silver	Refer to photo
A202	Metal	silver	Refer to photo
A203	Metal	silver	Refer to photo
A204	Metal	golden	Refer to photo
A205	Plastic + printing	black/ white	Refer to photo
A206	Plastic	red	Refer to photo
A214	Plastic + printing	white/ black	Refer to photo
A215	Plastic	red	Refer to photo
A216	Plastic	grey	Refer to photo
A217	Plastic	black	Refer to photo
A218	Plastic	brown	Refer to photo
A219	Plastic	blue	Refer to photo
A220	Plastic	yellow	Refer to photo
A221	Plastic	red	Refer to photo
A222	Metal	silver	Refer to photo
A223	PCB board	dark green	Refer to photo
A224	Electronic components	black	Refer to photo
A225	Plastic	red	Refer to photo
A226	Plastic	blue	Refer to photo
A227	Plastic	yellow	Refer to photo

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A228	Metal + plating	silver/ black	Refer to photo
A229	Metal	silver	Refer to photo
A230	Plastic	yellow	Refer to photo
A231	Plastic	white	Refer to photo
A232	Plastic	grey	Refer to photo
A233	Plastic	orange	Refer to photo
A234	Plastic + printing	multi color	Refer to photo
A235a	Coating	transparent/ silver	Refer to photo
A236a	Plastic	black	Refer to photo
A237	Plastic + printing + adhesive	black/ white	Refer to photo
A238	Plastic	black	Refer to photo
A239	Plastic	brown	Refer to photo
A240	Plastic	blue	Refer to photo
A241	Plastic	green/ yellow	Refer to photo
A242	Plastic	red	Refer to photo
A247	Plastic	white	Refer to photo
A248	Plastic	black	Refer to photo
A249	Plastic	white	Refer to photo
A250	Plastic	black	Refer to photo
A251	Plastic	black	Refer to photo
A252	Plastic	black	Refer to photo
A253	Plastic	black	Refer to photo
A254	Plastic + adhesive	black	Refer to photo
A255	Plastic + adhesive	black/ white	Refer to photo
A256	Metal	silver	Refer to photo
A257	Metal	silver	Refer to photo
A258	Plastic	black	Refer to photo
A259	Electronic components	multicolor	Refer to photo
A260	Glue	white	Refer to photo
A261	Plastic	transparent	Refer to photo
A262	Foam + adhesive	black	Refer to photo
A263	Metal	silver	Refer to photo

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A264	Metal	silver	Refer to photo
A265	Metal	silver	Refer to photo
A266	Plastic	black	Refer to photo
A267	Plastic	green	Refer to photo
A268	Plastic	yellow	Refer to photo
A269	Electronic components	black	Refer to photo
A270	Electronic components	black	Refer to photo
A271	Electronic components	black	Refer to photo
A272	Electronic components	black	Refer to photo
A273	Electronic components	black	Refer to photo
A274	Electronic components	black	Refer to photo
A275	Metal	golden	Refer to photo
A276	Plastic	grey	Refer to photo
A277	Plastic	black	Refer to photo
A279	Textile	black	Refer to photo
A280	Plastic	dark grey	Refer to photo
A281	Plastic	black	Refer to photo
A282	Plastic	black	Refer to photo
A283	Metal	silver	Refer to photo
A284	Metal	silver	Refer to photo
A285	Plastic	black	Refer to photo
A299a	Plastic	black	Refer to photo
A299b	Coating	silver/ black	Refer to photo
A300	Plastic	black	Refer to photo
A301	Plastic	black	Refer to photo
A302	Plastic	black	Refer to photo
A303	Metal	silver	Refer to photo
A304	Metal	silver	Refer to photo
A305	Plastic	black	Refer to photo
A306	Foam + adhesive	grey	Refer to photo
A307	Paper + adhesive	white/ black	Refer to photo
A308	Plastic	dark grey	Refer to photo

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A309	Metal	silver	Refer to photo
A310	Plastic	transparent	Refer to photo
A311	Metal	copper	Refer to photo
A312	Metal	silver	Refer to photo
A313	Metal	silver	Refer to photo
A314	Metal	copper	Refer to photo
A315	Plastic	black	Refer to photo
A323	Plastic	pink	Refer to photo
A324	Plastic	white	Refer to photo
A325	Plastic	dark blue	Refer to photo
A326	Plastic	black	Refer to photo
A327	Plastic	light blue	Refer to photo
A328	Plastic	green/ yellow	Refer to photo
A329	Plastic	brown	Refer to photo
A330	Plastic	black	Refer to photo
A331	Plastic	white	Refer to photo
A332	Metal	silver	Refer to photo
A333	Plastic	blue	Refer to photo
A334	Plastic	black	Refer to photo
A335	Electronic components	black	Refer to photo
A336	Electronic components	black	Refer to photo
A337	Electronic components	black	Refer to photo
A338	Electronic components	black	Refer to photo
A339	Electronic components	black	Refer to photo
A340	Electronic components	black	Refer to photo
A341	Electronic components	black	Refer to photo
A342	Electronic components	black	Refer to photo
A343	Electronic components	black	Refer to photo
A344	Electronic components	black	Refer to photo
A345	Electronic components	black	Refer to photo
A346	Solder	silver	Refer to photo
A347	Plastic	brown	Refer to photo

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A348	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
A004	BL	BL	BL	BL	BL
A005	BL	BL	BL	BL	BL
A006	BL	BL	BL	BL	BL
A007	BL	BL	BL	BL	BL
A008	BL	BL	BL	BL	BL
A009	BL	BL	BL	BL	BL
A010	BL	BL	BL	BL	BL
A011	BL	BL	BL	BL	BL
A012	BL	BL	BL	BL	BL
A013	BL	BL	BL	BL	BL
A014	BL	BL	BL	BL	BL
A015	BL	d.(*1)	BL	BL	n.a.
A016	BL	BL	BL	BL	BL
A017	BL	BL	BL	BL	BL
A018	BL	BL	BL	BL	BL
A019	BL	BL	BL	BL	BL
A020	BL	BL	BL	BL	BL
A021	BL	BL	BL	BL	BL
A022	BL	BL	BL	BL	BL
A023	BL	BL	BL	BL	BL
A024a	BL	BL	BL	BL	BL
A024b	BL	BL	BL	BL	n.a.
A025	BL	BL	BL	BL	d.(*1)
A026	BL	BL	BL	BL	BL
A027	BL	BL	BL	BL	BL
A028	BL	BL	BL	BL	n.a.
A029	BL	BL	BL	BL	n.a.
A030	BL	d.(*1)	BL	BL	n.a.
A031	BL	BL	BL	BL	BL
A032	BL	d.(*1)	BL	BL	n.a.
A033	BL	d.(*1)	BL	BL	n.a.
A034	BL	BL	BL	BL	n.a.
A035	BL	BL	BL	BL	n.a.
A036	BL	d.(*1)	BL	BL	n.a.
A037	BL	d.(*1)	BL	BL	n.a.
A038	BL	BL	BL	BL	BL
A039	BL	BL	BL	BL	d.(*1)

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A040	BL	BL	BL	BL	BL
A041	BL	BL	BL	BL	d.(*1)
A042	BL	BL	BL	BL	BL
A043	BL	BL	BL	BL	BL
A044	BL	BL	BL	BL	BL
A045	BL	BL	BL	BL	BL
A046	BL	BL	BL	BL	BL
A047	BL	d.(*1)	BL	BL	BL
A048	BL	BL	BL	BL	BL
A049	BL	BL	BL	BL	n.a.
A050	BL	BL	BL	BL	n.a.
A051	BL	BL	BL	BL	BL
A052	BL	BL	BL	BL	n.a.
A053	BL	BL	BL	BL	BL
A054	BL	BL	BL	BL	BL
A055	BL	BL	BL	BL	BL
A056	BL	BL	BL	BL	BL
A057	BL	BL	BL	BL	BL
A058	BL	BL	BL	BL	n.a.
A059	BL	BL	BL	BL	BL
A060	BL	BL	BL	BL	n.a.
A061	BL	BL	BL	BL	n.a.
A062	BL	BL	BL	BL	d.(*1)
A063	BL	BL	BL	BL	d.(*1)
A064	BL	BL	BL	BL	BL
A065	BL	BL	BL	BL	n.a.
A066a	BL	BL	BL	BL	BL
A067	BL	BL	BL	BL	BL
A068	BL	BL	BL	BL	BL
A069	BL	BL	BL	BL	d.(*1)
A070	BL	BL	BL	BL	BL
A071a	BL	BL	BL	BL	BL
A072a	BL	BL	BL	BL	BL
A073a	BL	BL	BL	BL	BL
A074a	BL	BL	BL	BL	BL
A075	BL	BL	BL	BL	d.(*1)
A076	BL	BL	BL	BL	BL
A077	BL	d.(*1)	BL	BL	BL
A078	BL	BL	BL	BL	BL
A079	BL	BL	BL	BL	BL
A080	BL	BL	BL	BL	BL
A081	BL	d.(*1)	BL	BL	BL
A082	BL	BL	BL	BL	BL

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A083	BL	BL	BL	BL	n.a.
A084	BL	BL	BL	BL	BL
A085	BL	BL	BL	BL	BL
A086	BL	BL	BL	BL	n.a.
A087	BL	BL	BL	BL	BL
A088	BL	BL	BL	BL	BL
A089	BL	BL	BL	BL	n.a.
A090	BL	BL	BL	BL	BL
A091	BL	d.(*1)	BL	BL	BL
A092	BL	BL	BL	BL	BL
A093	BL	BL	BL	BL	BL
A094	BL	d.(*1)	BL	BL	BL
A095	BL	BL	d.(*1)	BL	BL
A096	BL	BL	d.(*1)	BL	BL
A097	BL	BL	BL	BL	BL
A098	BL	BL	BL	BL	d.(*1)
A099	BL	BL	d.(*1)	BL	BL
A100	BL	BL	BL	BL	BL
A101	BL	BL	BL	BL	BL
A102	BL	BL	BL	BL	n.a.
A103	BL	d.(*1)	BL	BL	n.a.
A104	BL	d.(*1)	BL	BL	BL
A105	BL	d.(*1)	BL	BL	BL
A106	BL	BL	BL	BL	BL
A107	BL	BL	BL	BL	d.(*1)
A108	BL	BL	BL	BL	n.a.
A109	BL	BL	BL	BL	BL
A110	BL	BL	BL	BL	BL
A111	BL	BL	BL	BL	d.(*1)
A112	BL	BL	d.(*1)	BL	BL
A113	BL	d.(*1)	BL	BL	BL
A114	BL	BL	BL	BL	BL
A115	BL	BL	BL	BL	BL
A116	BL	BL	d.(*1)	BL	BL
A117	BL	BL	BL	BL	BL
A118	BL	BL	d.(*1)	BL	BL
A119	BL	BL	BL	BL	BL
A120	BL	BL	BL	BL	n.a.
A121	BL	BL	BL	BL	BL
A122	BL	BL	BL	BL	BL
A124a	BL	BL	BL	BL	BL
A124b	BL	BL	BL	BL	n.a.
A125a	BL	BL	BL	BL	BL

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A126a	BL	BL	BL	BL	BL
A127a	BL	BL	BL	BL	BL
A128	BL	BL	BL	BL	n.a.
A129	BL	BL	BL	BL	BL
A130	BL	BL	BL	BL	BL
A131	BL	BL	BL	BL	n.a.
A132	BL	BL	BL	BL	n.a.
A133	BL	d.(*1)	BL	BL	n.a.
A134	BL	BL	d.(*1)	BL	n.a.
A135	BL	BL	BL	BL	BL
A136	BL	BL	BL	BL	BL
A137	BL	BL	BL	BL	BL
A138	BL	BL	BL	BL	n.a.
A139	BL	BL	BL	BL	BL
A140	BL	BL	BL	BL	BL
A141	BL	BL	BL	BL	BL
A142	BL	BL	BL	BL	BL
A143	BL	BL	BL	BL	BL
A144	BL	d.(*1)	BL	BL	n.a.
A145	BL	BL	BL	BL	n.a.
A146	BL	BL	BL	BL	BL
A123a	BL	BL	BL	BL	BL
A143a	BL	BL	BL	BL	BL
A147a	BL	BL	BL	BL	BL
A147b	BL	BL	BL	BL	BL
A150	BL	BL	BL	BL	d.(*1)
A151	BL	BL	BL	BL	BL
A152	BL	d.(*1)	BL	BL	BL
A153	BL	BL	BL	BL	BL
A154	BL	BL	BL	BL	d.(*1)
A155	BL	BL	BL	BL	BL
A156	BL	BL	BL	BL	BL
A157	BL	BL	BL	BL	BL
A158	BL	BL	d.(*1)	BL	BL
A159	BL	BL	d.(*1)	BL	BL
A160	BL	d.(*1)	d.(*1)	BL	BL
A161	BL	BL	d.(*1)	BL	BL
A162	BL	BL	BL	BL	BL
A163	BL	BL	BL	BL	BL
A164	BL	BL	d.(*1)	BL	BL
A165	BL	BL	d.(*1)	BL	BL
A166	BL	BL	BL	BL	n.a.
A167	BL	BL	BL	BL	d.(*1)

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A168	BL	BL	BL	BL	n.a.
A169	BL	BL	d.(*1)	BL	BL
A170	BL	BL	BL	BL	BL
A171	BL	BL	BL	BL	BL
A172	BL	BL	BL	BL	BL
A173	BL	BL	BL	BL	BL
A174	BL	BL	BL	BL	BL
A175	BL	d.(*1)	BL	BL	n.a.
A176	BL	BL	BL	BL	BL
A177	BL	BL	d.(*1)	BL	BL
A178	BL	BL	d.(*1)	BL	BL
A179	BL	BL	BL	BL	BL
A180	BL	BL	BL	BL	BL
A181	BL	BL	BL	BL	n.a.
A182	BL	BL	BL	BL	n.a.
A183	BL	BL	BL	BL	BL
A184	BL	BL	BL	BL	BL
A185	BL	BL	BL	BL	BL
A186	BL	BL	BL	BL	BL
A187	BL	d.(*1)	BL	BL	BL
A188	BL	BL	BL	BL	BL
A189	BL	BL	BL	BL	BL
A190	BL	BL	BL	BL	n.a.
A191	BL	BL	BL	BL	BL
A192	BL	BL	BL	BL	n.a.
A193	BL	BL	BL	BL	n.a.
A194	BL	BL	BL	BL	BL
A195	BL	BL	BL	BL	BL
A196	BL	BL	BL	BL	BL
A197	BL	BL	BL	BL	d.(*1)
A198	BL	d.(*1)	BL	BL	n.a.
A201	BL	BL	BL	BL	n.a.
A202	BL	BL	BL	BL	n.a.
A203	BL	BL	BL	BL	n.a.
A204	BL	BL	BL	BL	n.a.
A205	BL	BL	BL	BL	BL
A206	BL	BL	BL	BL	BL
A214	BL	BL	BL	BL	BL
A215	BL	BL	BL	BL	BL
A216	BL	BL	BL	BL	BL
A217	BL	BL	BL	BL	BL
A218	BL	BL	BL	BL	BL
A219	BL	BL	BL	BL	BL

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A220	BL	BL	BL	BL	BL
A221	BL	BL	BL	BL	BL
A222	BL	BL	BL	BL	n.a.
A223	BL	BL	BL	BL	d.(*1)
A224	BL	d.(*1)	BL	BL	BL
A225	BL	BL	BL	BL	d.(*1)
A226	BL	BL	BL	BL	d.(*1)
A227	BL	BL	BL	BL	d.(*1)
A228	BL	BL	BL	BL	n.a.
A229	BL	d.(*1)	BL	BL	n.a.
A230	BL	BL	BL	BL	BL
A231	BL	BL	BL	BL	BL
A232	BL	BL	BL	BL	BL
A233	BL	BL	BL	BL	BL
A234	BL	BL	BL	BL	BL
A237	BL	BL	BL	BL	BL
A238	BL	BL	BL	BL	BL
A239	BL	BL	BL	BL	BL
A240	BL	BL	BL	BL	BL
A241	BL	BL	BL	BL	BL
A242	BL	BL	BL	BL	BL
A247	BL	BL	BL	BL	BL
A248	BL	BL	BL	BL	BL
A249	BL	BL	BL	BL	BL
A250	BL	BL	BL	BL	BL
A251	BL	BL	BL	BL	BL
A252	BL	BL	BL	BL	BL
A253	BL	BL	BL	BL	BL
A254	BL	BL	BL	BL	BL
A255	BL	BL	BL	BL	BL
A256	BL	BL	BL	BL	n.a.
A257	BL	BL	BL	BL	n.a.
A258	BL	BL	BL	BL	BL
A259	BL	BL	BL	BL	BL
A260	BL	BL	BL	BL	BL
A261	BL	BL	BL	BL	BL
A262	BL	BL	BL	BL	BL
A263	BL	BL	BL	BL	n.a.
A264	BL	BL	BL	BL	n.a.
A265	BL	BL	BL	BL	n.a.
A266	BL	BL	BL	BL	d.(*1)
A267	BL	BL	BL	BL	BL
A268	BL	BL	BL	BL	BL

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A269	BL	BL	BL	BL	BL
A270	BL	BL	BL	BL	BL
A271	BL	BL	BL	BL	BL
A272	BL	BL	d.(*1)	BL	BL
A273	BL	BL	BL	BL	BL
A274	BL	BL	BL	BL	BL
A275	BL	BL	d.(*1)	BL	n.a.
A276	BL	BL	BL	BL	BL
A277	BL	BL	BL	BL	BL
A279	BL	BL	BL	BL	BL
A280	BL	BL	BL	BL	BL
A281	BL	BL	BL	BL	BL
A282	BL	BL	BL	BL	BL
A283	BL	d.(*1)	BL	BL	n.a.
A284	BL	BL	BL	BL	n.a.
A285	BL	BL	BL	BL	d.(*1)
A299a	BL	BL	BL	BL	BL
A299b	BL	BL	BL	BL	BL
A300	BL	BL	BL	BL	BL
A301	BL	BL	BL	BL	BL
A302	BL	BL	BL	BL	BL
A303	BL	BL	BL	BL	n.a.
A304	BL	BL	BL	BL	n.a.
A305	BL	BL	BL	BL	BL
A306	BL	BL	BL	BL	BL
A307	BL	BL	BL	BL	BL
A308	BL	BL	BL	BL	BL
A309	BL	d.(*1)	BL	BL	n.a.
A310	BL	BL	BL	BL	BL
A311	BL	BL	BL	BL	n.a.
A312	BL	BL	BL	BL	n.a.
A313	BL	d.(*1)	BL	BL	n.a.
A314	BL	BL	BL	BL	n.a.
A315	BL	BL	BL	BL	BL
A323	BL	BL	BL	BL	BL
A324	BL	BL	BL	BL	BL
A325	BL	BL	BL	BL	BL
A326	BL	BL	BL	BL	BL
A327	BL	BL	BL	BL	BL
A328	BL	BL	BL	BL	BL
A329	BL	BL	BL	BL	BL
A330	BL	BL	BL	BL	d.(*1)
A331	BL	BL	BL	BL	BL

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A332	BL	BL	BL	BL	n.a.
A333	BL	BL	BL	BL	BL
A334	BL	BL	BL	BL	BL
A335	BL	BL	BL	BL	BL
A336	BL	BL	BL	BL	BL
A337	BL	BL	BL	BL	BL
A338	BL	d.(*1)	d.(*1)	BL	BL
A339	BL	BL	BL	BL	BL
A340	BL	BL	BL	BL	BL
A341	BL	BL	BL	BL	BL
A342	BL	BL	BL	BL	BL
A343	BL	BL	BL	BL	BL
A344	BL	BL	d.(*1)	BL	BL
A345	BL	BL	BL	BL	BL
A346	BL	BL	BL	BL	n.a.
A347	BL	BL	BL	BL	BL
A348	BL	d.(*1)	BL	BL	n.a.

Abbreviation:

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

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.

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.

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	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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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
A025	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A039	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A041	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A062	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A063	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A069	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A075	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A095	n.a.	n.a.	1.28(*4)	n.a.	n.a.	n.a.
A096	n.a.	n.a.	1.43(*4)	n.a.	n.a.	n.a.
A098	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A099	n.a.	n.a.	1.82(*4)	n.a.	n.a.	n.a.
A107	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A111	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A112	n.a.	n.a.	1.94(*4)	n.a.	n.a.	n.a.
A116	n.a.	n.a.	2.39(*4)	n.a.	n.a.	n.a.
A118	n.a.	n.a.	1.18(*4)	n.a.	n.a.	n.a.
A134	n.a.	n.a.	2.90(*3)	n.a.	n.a.	n.a.
A149	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A150	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A154	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A158	n.a.	n.a.	0.909(*4)	n.a.	n.a.	n.a.

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A159	n.a.	n.a.	2.71(*4)	n.a.	n.a.	n.a.
A160	n.a.	n.a.	0.182(*4)	n.a.	n.a.	n.a.
A161	n.a.	n.a.	1.70(*4)	n.a.	n.a.	n.a.
A164	n.a.	n.a.	0.908(*4)	n.a.	n.a.	n.a.
A165	n.a.	n.a.	1.09(*4)	n.a.	n.a.	n.a.
A167	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A169	n.a.	n.a.	2.03(*4)	n.a.	n.a.	n.a.
A177	n.a.	n.a.	0.546(*4)	n.a.	n.a.	n.a.
A178	n.a.	n.a.	2.10(*4)	n.a.	n.a.	n.a.
A197	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A223	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A225	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A226	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A227	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A266	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A272	n.a.	n.a.	2.12(*4)	n.a.	n.a.	n.a.
A275	n.a.	n.a.	3.62(*3)	n.a.	n.a.	n.a.
A285	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A330	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A338	n.a.	n.a.	0.0702	n.a.	n.a.	n.a.
A344	n.a.	n.a.	1.89(*4)	n.a.	n.a.	n.a.

Material No.	Chromium VI content for metal materials (µg/cm²) (*1) RL: 0.10 µg/cm²
A015	Negative
A030	Negative
A032	Negative
A033	Negative
A036	Negative
A037	Negative
A103	Negative
A133	Negative
A144	Negative
A175	Negative
A198	Negative
A229	Negative
A283	Negative
A309	Negative

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A313	Negative
A348	Negative
Material No.	Chromium VI content for other materials (%) RL: 0.01%
A047	< RL
A077	< RL
A081	< RL
A091	< RL
A094	< RL
A104	< RL
A105	< RL
A113	< RL
A152	< RL
A160	< RL
A187	< RL
A224	< RL
A338	< 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 trails 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).

*3 According to (EU) 2018/741 and Annex III of directive 2011/65/EU, 6(c), as a copper alloy containing up to 4% lead by weight are exempted from requirement. This exemption applies to testing sample No.: A134, A275.

*4 According to (EU) 2018/736 and Annex III of directive 2011/65/EU, 7(c)-I, 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 is exempted from requirement. This exemption applies to testing sample No.: A095, A096, A099, A112, A116, A118, A158, A159, A160, A161, A164, A165, A169, A177, A178, A272, A344.

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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
T003	A004 + A005 + A006	< RL	< RL	< RL	< RL
T004	A007 + A008 + A009	< RL	< RL	< RL	< RL
T005	A010 + A011 + A012	< RL	< RL	< RL	< RL
T006	A013 + A014 + A020	< RL	< RL	< RL	< RL
T007	A021 + A022 + A023	< RL	< RL	< RL	< RL
T008	A024a + A025 + A031	< RL	< RL	< RL	< RL
T009	A038 + A039 + A040	< RL	< RL	< RL	< RL
T010	A041 + A051 + A059	< RL	< RL	< RL	< RL
T011	A062 + A063 + A064	< RL	< RL	< RL	< RL
T012	A066a + A067 + A068	< RL	< RL	< RL	< RL
T013	A069 + A070 + A071a	< RL	< RL	< RL	< RL
T014	A072a + A073a + A074a	< RL	< RL	< RL	< RL
T015	A075 + A081 + A082	< RL	< RL	< RL	< RL
T016	A084 + A085 + A088	< RL	< RL	< RL	< RL
T017	A097 + A100 + A101	< RL	< RL	< RL	< RL
T018	A106 + A109 + A121	< RL	< RL	< RL	< RL
T019	A124a + A125a + A126a	< RL	< RL	< RL	< RL
T020	A127a + A129 + A130	< RL	< RL	< RL	< RL
T021	A135 + A136 + A137	< RL	< RL	< RL	< RL
T022	A139 + A140 + A141	< RL	< RL	< RL	< RL
T023	A142 + A143 + A107	< RL	< RL	< RL	< RL

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T024	A147a	< RL	< RL	< RL	< RL
T025	A147b + A148 + A149	< RL	< RL	< RL	< RL
T026	A150 + A151 + A167	< RL	< RL	< RL	< RL
T027	A262 + A266	< RL	< RL	0.006	< RL
T028	A191 + A194 + A195	< RL	< RL	< RL	< RL
T029	A205	< RL	< RL	< RL	< RL
T030	A206 + A215 + A216	< RL	< RL	< RL	< RL
T031	A217 + A218 + A219	< RL	< RL	< RL	< RL
T032	A220 + A221 + A223	< RL	< RL	< RL	< RL
T033	A225 + A226 + A227	< RL	< RL	< RL	< RL
T034	A230 + A231 + A232	< RL	< RL	< RL	< RL
T035	A233 + A234 + A236a	< RL	< RL	< RL	< RL
T036	A237 + A238 + A239	< RL	< RL	< RL	< RL
T037	A240 + A241 + A242	< RL	< RL	< RL	< RL
T038	A247 + A248 + A249	< RL	< RL	0.012	< RL
T039	A250 + A251 + A252	< RL	< RL	< RL	< RL
T040	A253 + A254 + A255	< RL	< RL	< RL	< RL
T041	A258 + A260 + A261	< RL	< RL	0.010	< RL
T042	A276 + A277	< RL	< RL	< RL	< RL
T044	A279 + A280	< RL	0.017	< RL	< RL
T045	A281 + A282 + A285	< RL	< RL	< RL	< RL
T046	A235a	< RL	< RL	< RL	< RL
T047	A143a	< RL	< RL	< RL	< RL
T048	A299b	< RL	0.013	0.014	< RL
T049	A299a + A300 + A301	< RL	< RL	< RL	< RL
T050	A302 + A305 + A306	< RL	< RL	< RL	< RL
T051	A308 + A310 + A315	< RL	< RL	< RL	< RL
T052	A323 + A324 + A325	< RL	< RL	< RL	< RL
T053	A326 + A327 + A328	< RL	< RL	< RL	< RL
T054	A329 + A330 + A331	< RL	< RL	< RL	< RL

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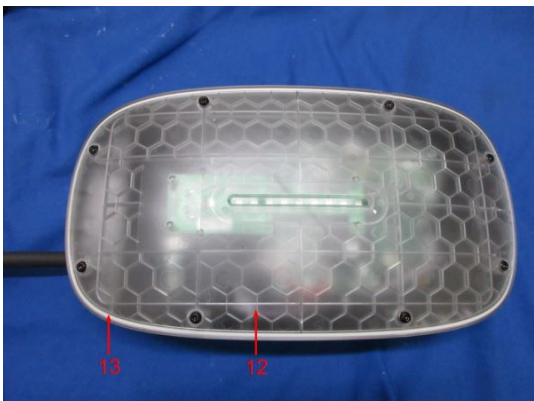
T055	A333 + A334 + A347	< RL	< RL	< RL	< RL
T056	A196 + A197	< RL	< RL	< RL	< RL

Abbreviation: BBP= Benzylbutyl phthalate
DBP= Dibutyl phthalate
DEHP= Bis(2-ethylhexyl) phthalate
DIBP= Diisobutyl phthalate
< = less than
RL = Reporting Limit
%= percentage

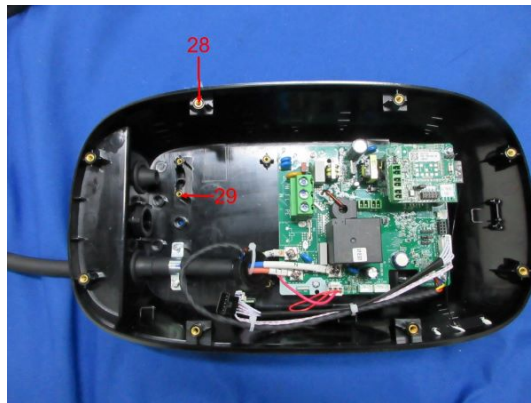
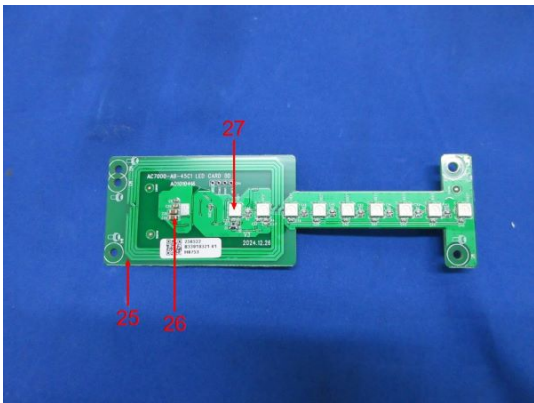
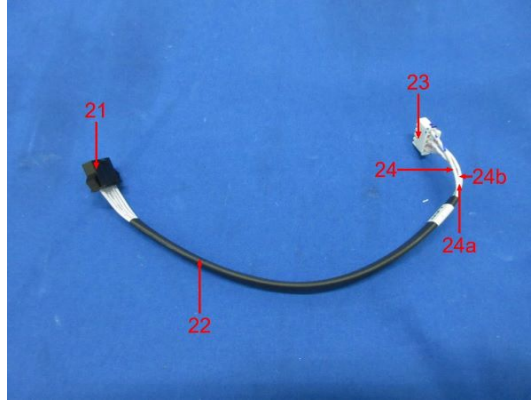
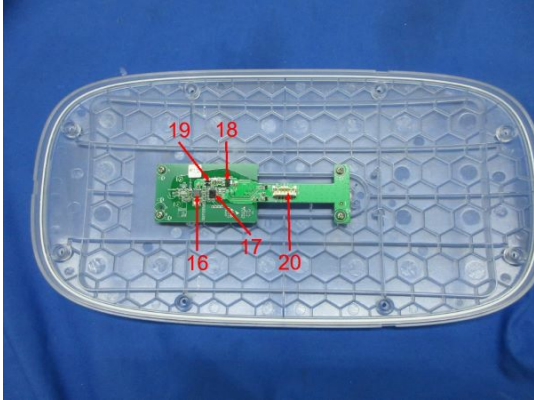
Remark:

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

Sample Photos



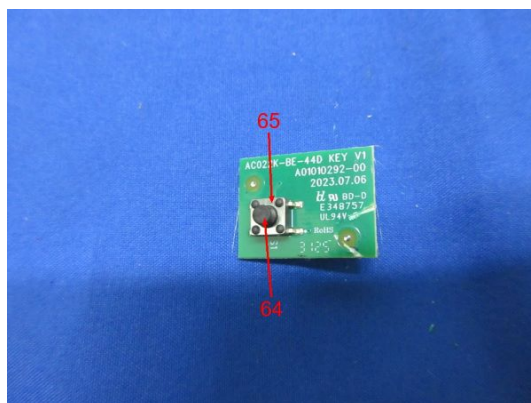
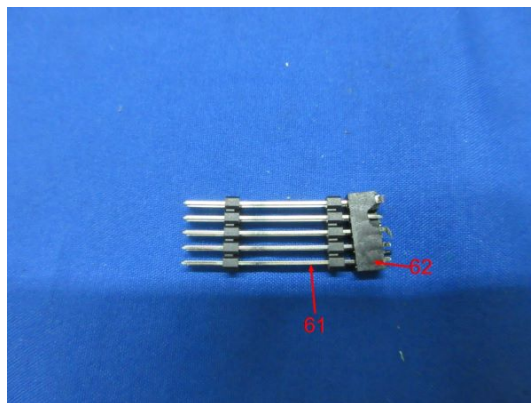
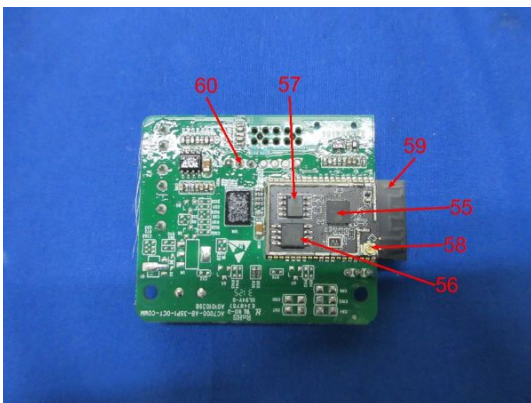
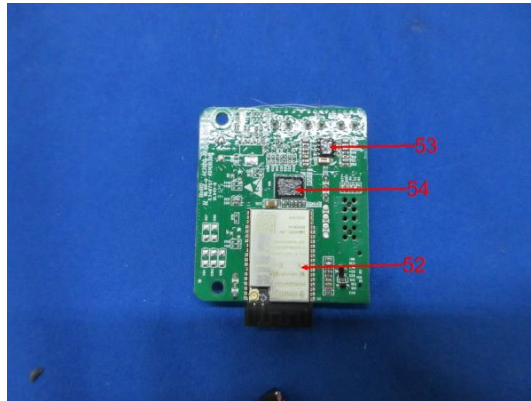
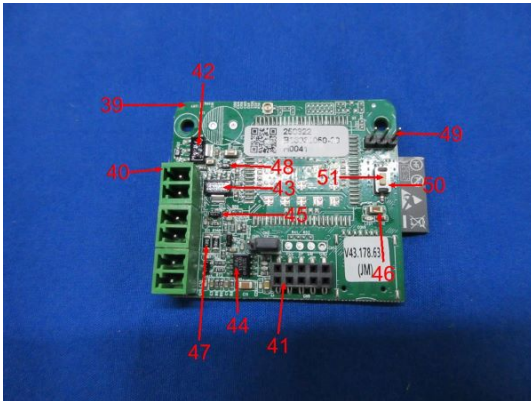
Sample Photos



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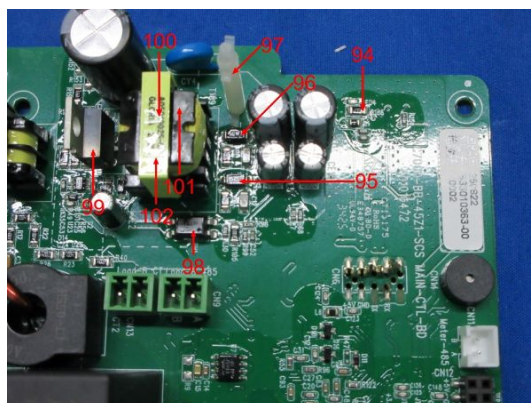
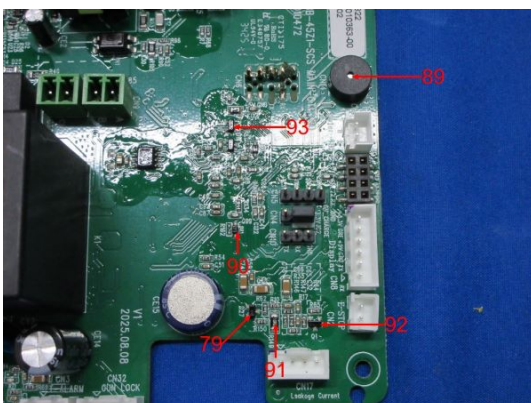
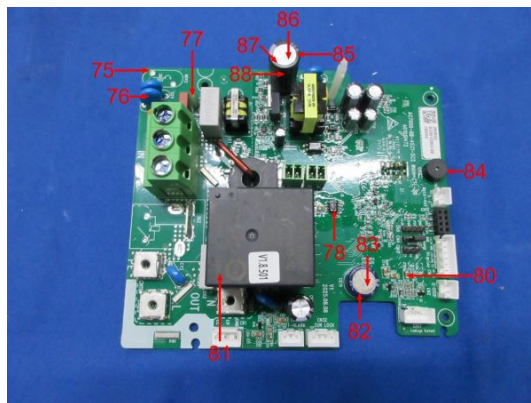
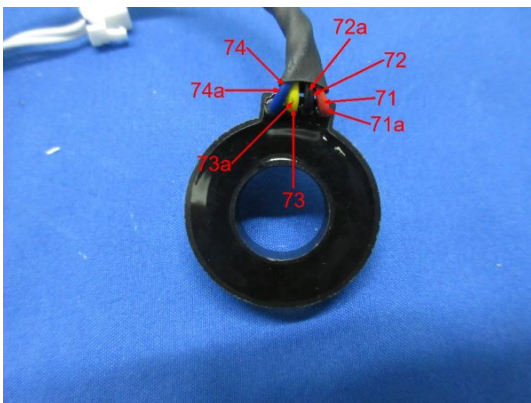
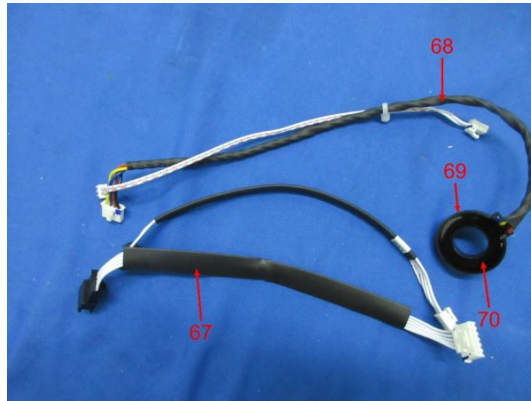
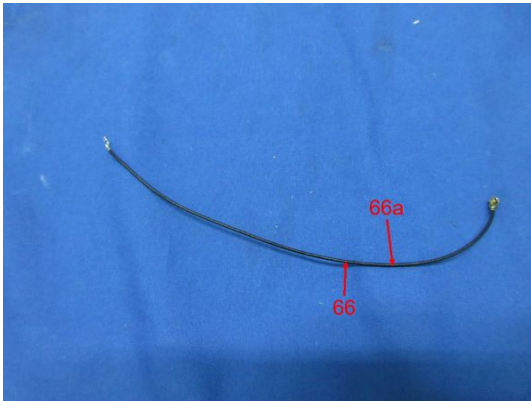
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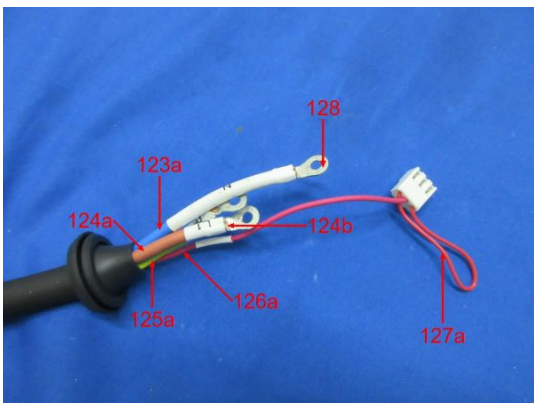
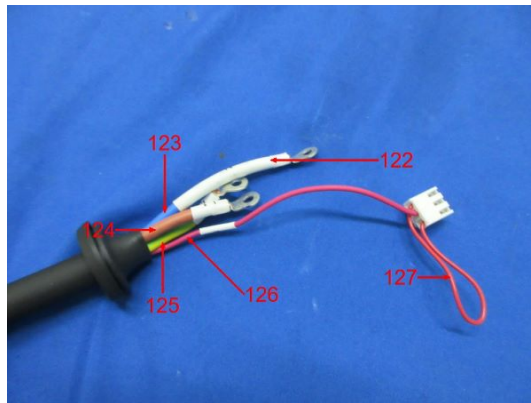
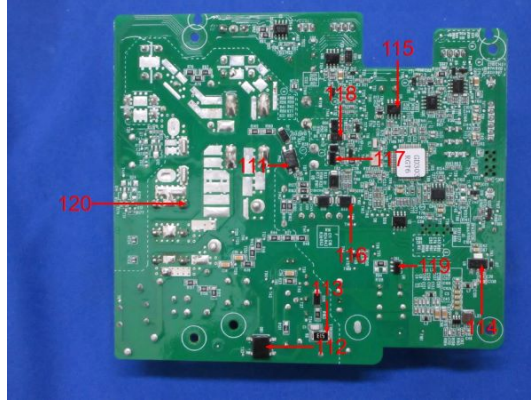
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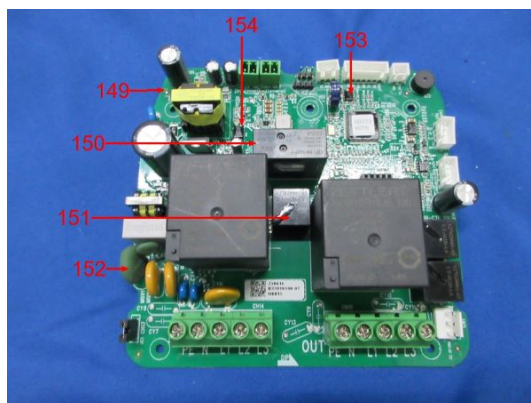
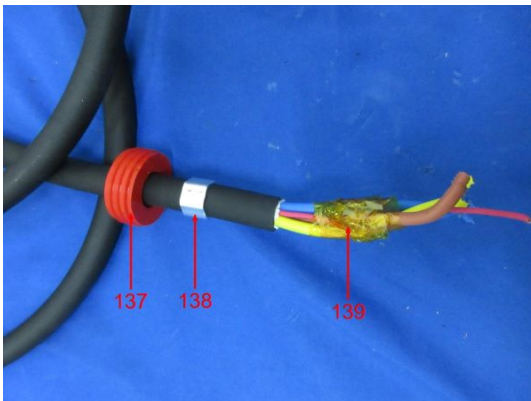
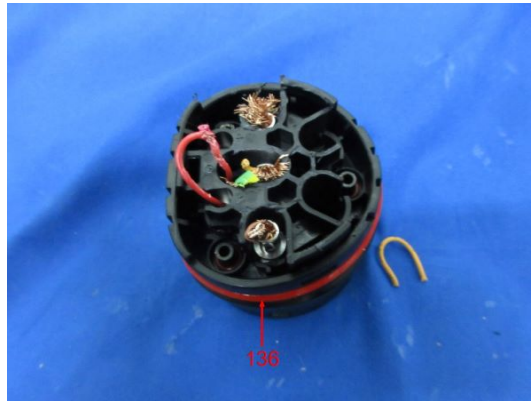
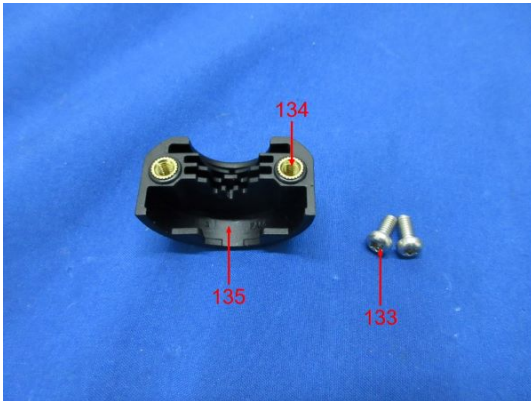
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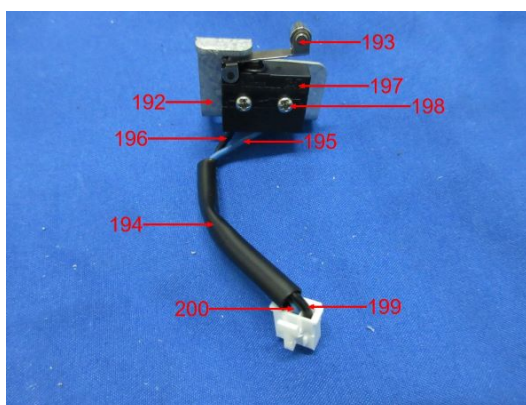
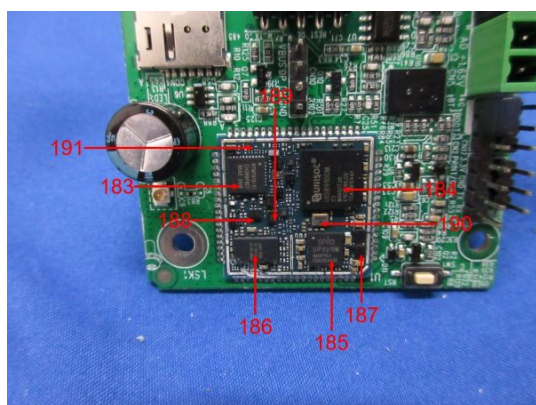
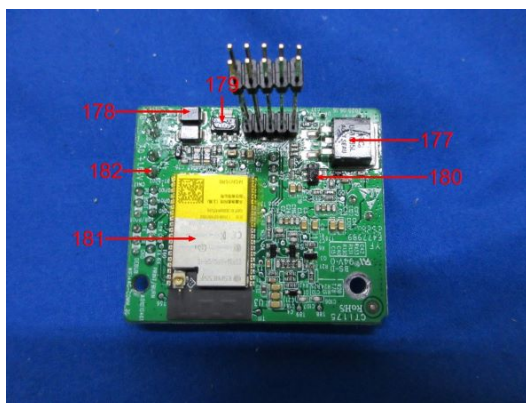
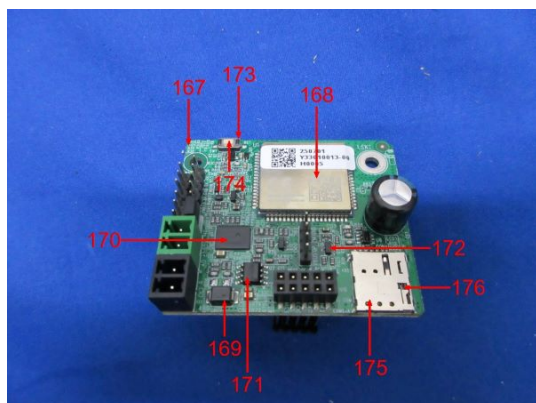
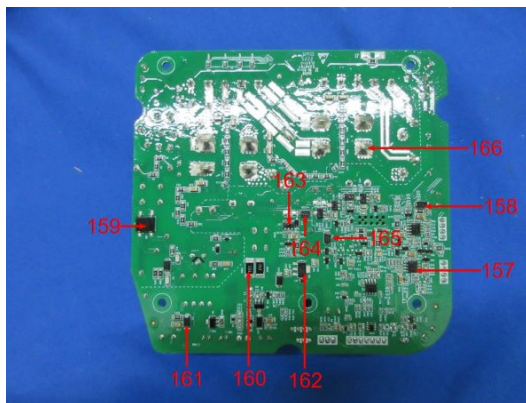
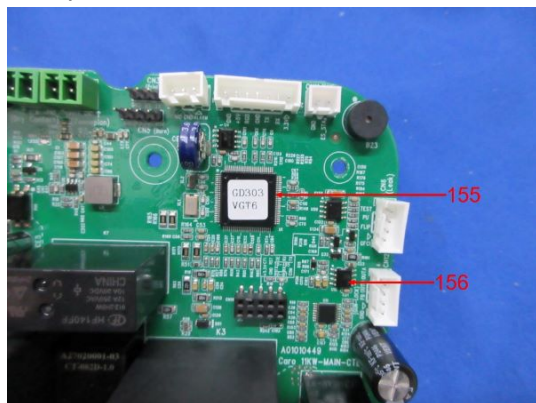
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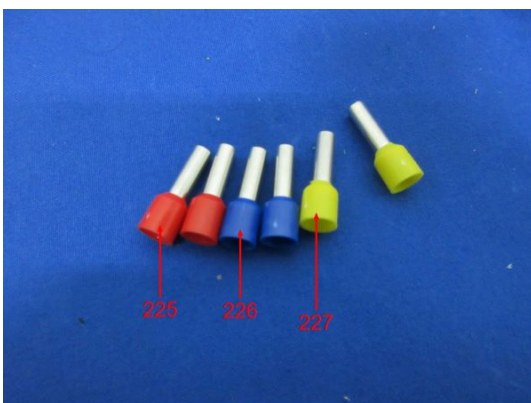
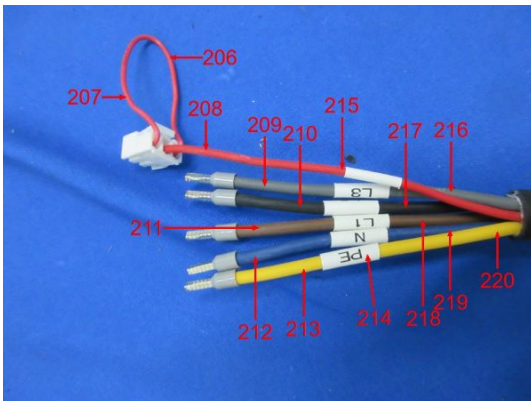
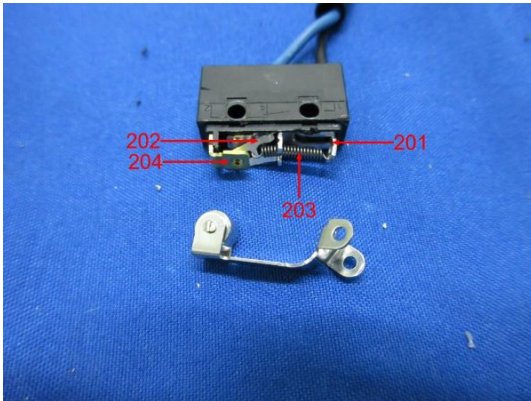
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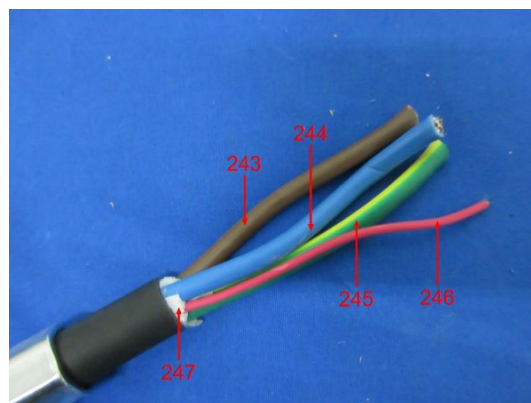
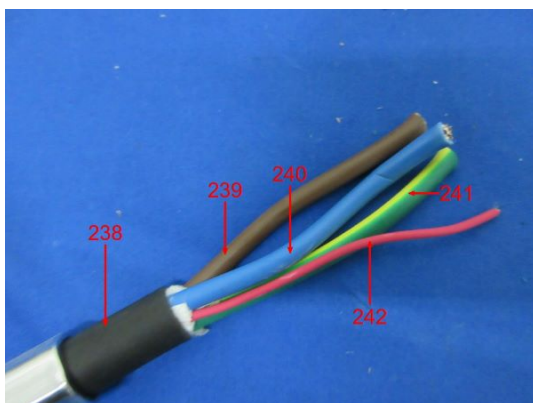
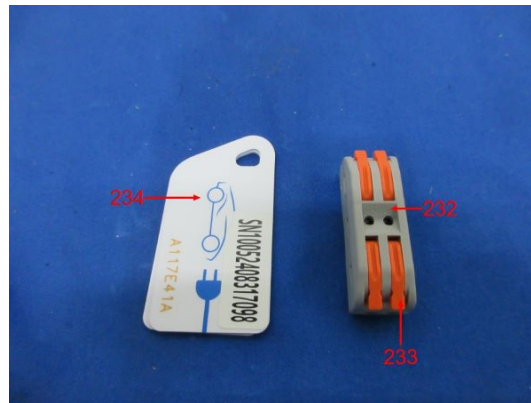
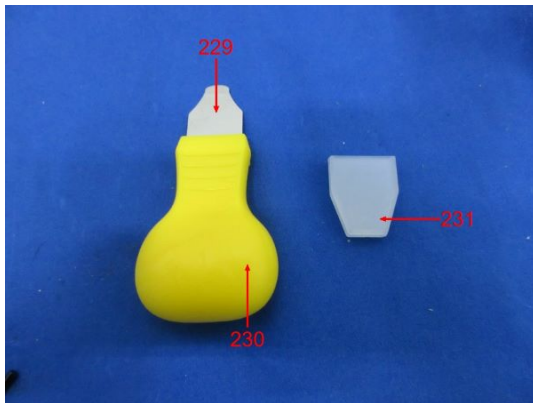
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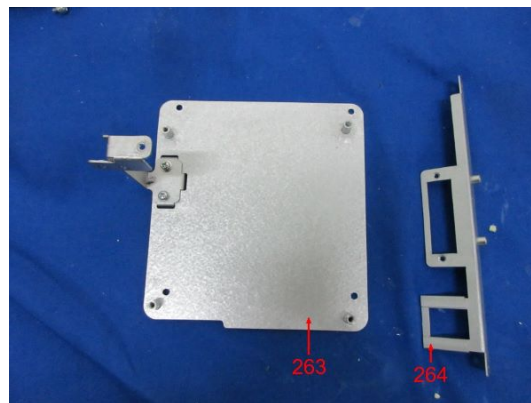
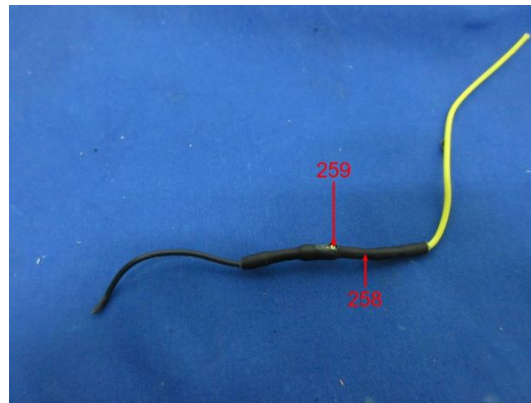
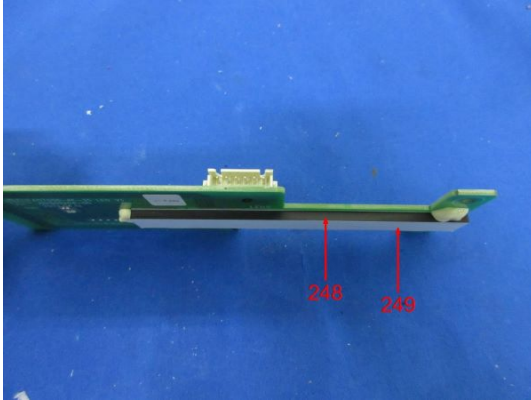
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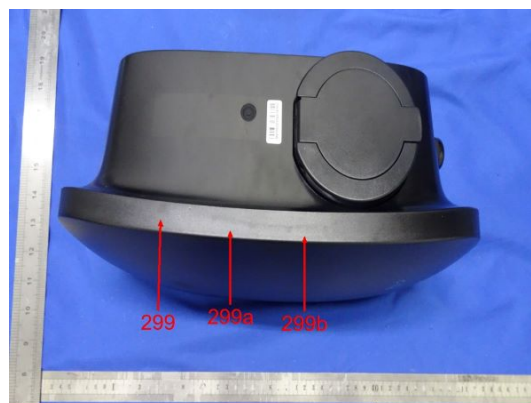
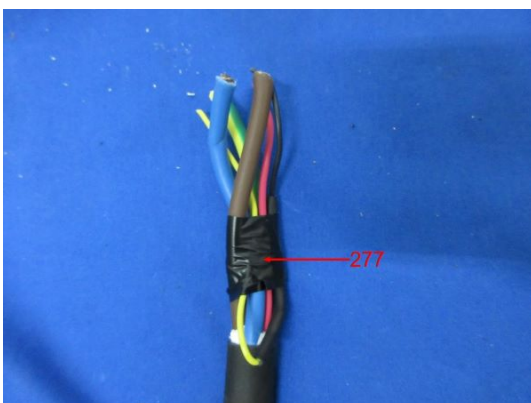
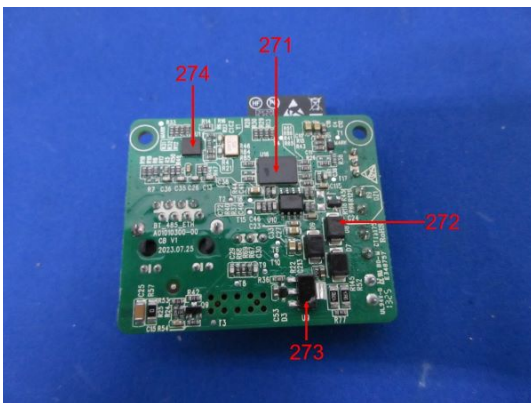
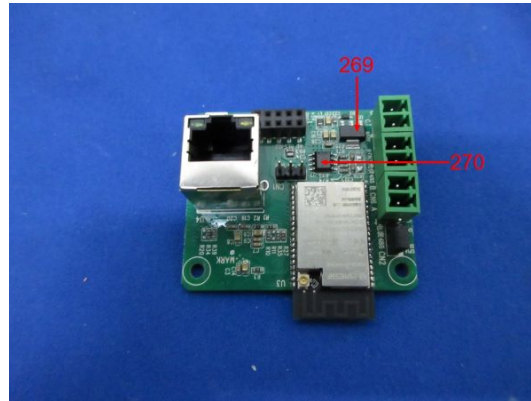
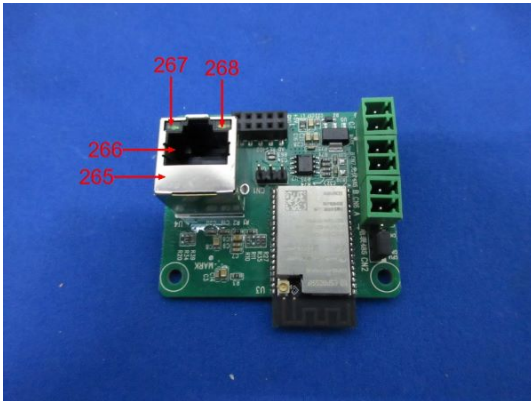
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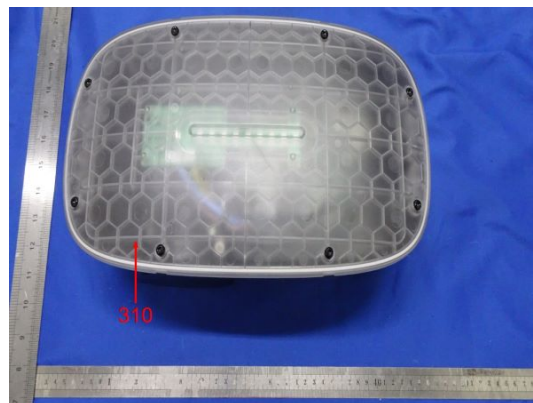
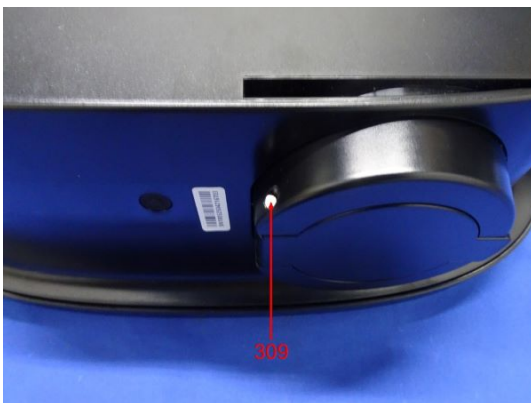
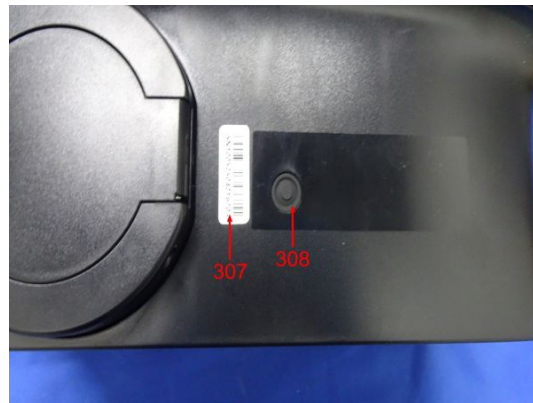
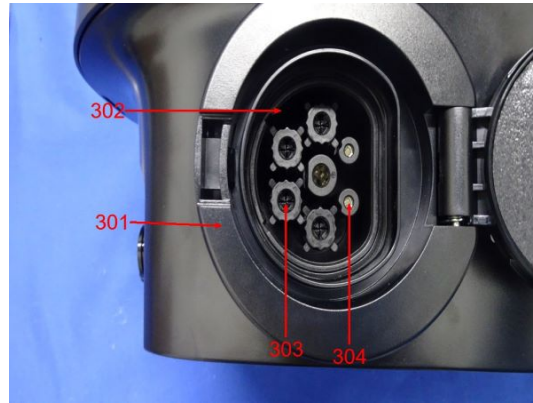
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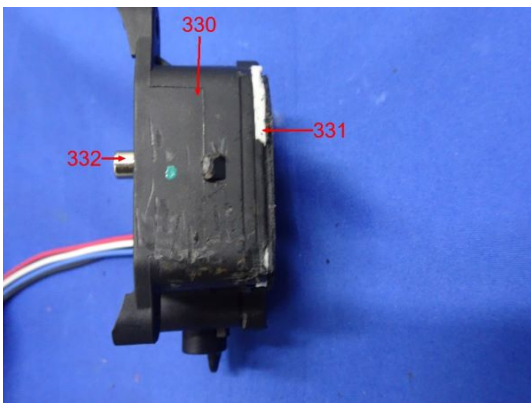
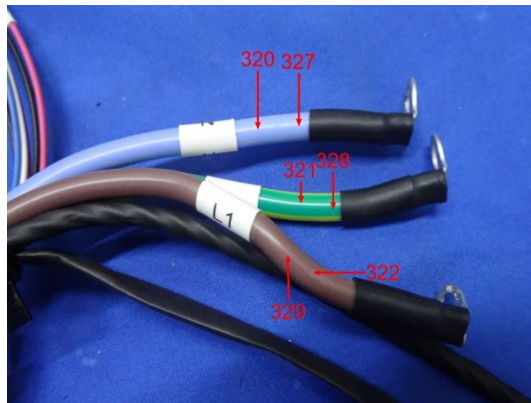
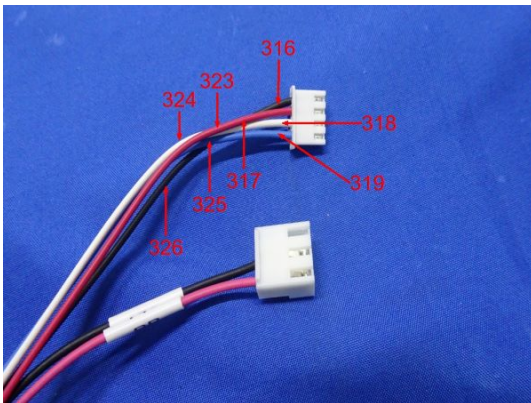
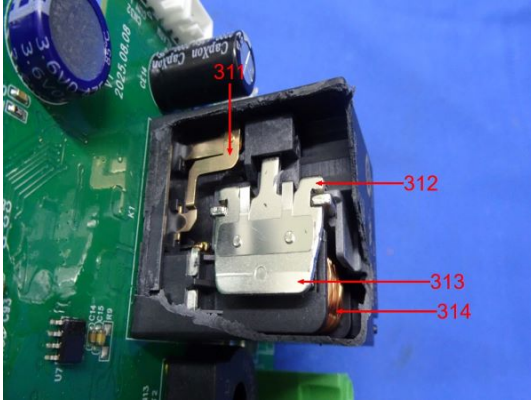
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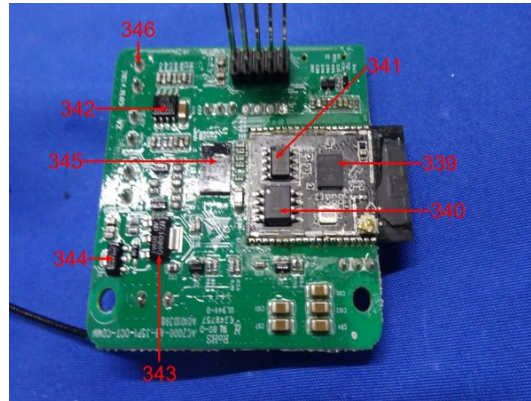
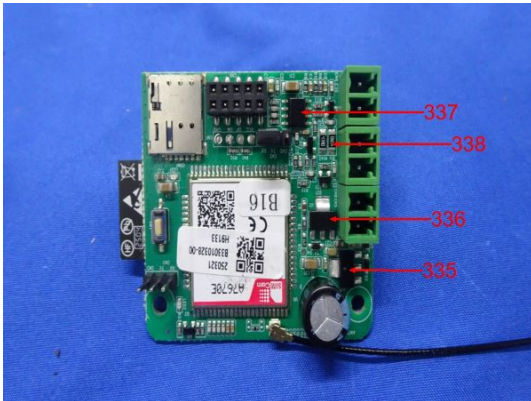
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General Terms and Conditions of Business of TÜV Rheinland in Greater China

1. **Scope**

1.1 These General Terms and Conditions of Business of TÜV Rheinland in Greater China ("GTBCB") is made between one or more members and one or more enterprises in the Greater China area as applicable as the case may be ("TÜV Rheinland"). The Greater China hereof refers to the regions within the territories of China. The client hereby includes:

(i) a natural person capable to form legally binding contracts under the applicable laws who concludes the contract for the purpose of the daily use;

(ii) the incorporated or unincorporated entity duly organized, validly existing and capable to form legally binding contracts under the applicable law.

1.2 The following terms and conditions apply to agreed services including consultancy services, information, deliveries and similar services as well as ancillary services and other secondary obligations provided within the scope of contract performance.

1.3 Any standard terms and conditions of the client of any nature shall not apply and shall hereby be expressly excluded. No standard contractual terms and conditions of the client shall form part of the contract even if TÜV Rheinland does not explicitly object to them.

1.4 In the context of an ongoing business relationship with the client, this GTBCB shall also apply to future contracts with the client without TÜV Rheinland having to refer to them separately in each individual case.

2. **Quotations**

Unless otherwise agreed, all quotations submitted by TÜV Rheinland can be changed by TÜV Rheinland without notice prior to its acceptance and confirmation by the other party.

3. **Coming into effect and duration of contracts**

3.1 The contract shall come into effect for the agreed terms upon the quotation letter of TÜV Rheinland or a separate contractual document being signed by both contracting parties, or upon the request requested by the client being carried out by TÜV Rheinland. If the client instructs TÜV Rheinland without receiving a quotation from TÜV Rheinland (quotation), TÜV Rheinland is, in its sole discretion, entitled to accept the order by giving written notice of such acceptance (including notice sent via electronic means) or by performing the requested services.

3.2 The contract term starts upon the coming into effect of the contract in accordance with article 3.1 and shall continue for the term agreed in the contract.

3.3 If the contract provides for an extension of the contract term, the contract term will be extended by the term provided in the contract where such extension is written in writing by both parties with a three-month notice prior to the end of the contractual term.

4. **Scope of services**

4.1 The scope and type of the services to be provided by TÜV Rheinland shall be specified in the contractually agreed service scope of TÜV Rheinland by both parties. If no such separate service scope of TÜV Rheinland exists, then the written confirmation of order by TÜV Rheinland shall be decisive for the service to be provided. Unless otherwise agreed, services beyond the scope of the service description (e.g. checking the construction and function of parts, products, processes, installations, organizations not listed in the service description, as well as the intended use and application of such) are not owed. In particular, no responsibility is assumed for the design, selection of materials, construction or intended use of an examined part, product, process or plant, unless this is expressly stated in the order.

4.2 The agreed services shall be performed in compliance with the regulations in force at the time the contract is entered into.

4.3 TÜV Rheinland is entitled to determine, in its sole discretion, the method and nature of the assessment unless otherwise agreed in writing or if mandatory provisions require a specific procedure to be followed.

4.4 On execution of the work there shall be no simultaneous assumption of any guarantee of the correctness (proper quality) and working order of either tested or examined parts nor of the installation as a whole or of upstream and/or downstream processes, organizations, use and application in accordance with regulations, nor of the systems on which the installation is based. In particular, TÜV Rheinland shall assume no responsibility for the construction, selection of materials and assembly of installations examined by TÜV Rheinland, unless this is expressly stated with regulations, unless these questions are expressly covered by the contract.

4.5 In the case of inspection work, TÜV Rheinland shall not be responsible for the accuracy or checking of the safety programmes or safety regulations on which the inspections are based, unless otherwise expressly agreed in writing or if mandatory provisions require a specific procedure to be followed.

4.6 If mandatory legal regulations and standards or official requirements for the agreed service scope change after conclusion of the contract, with a written notice to the client, TÜV Rheinland shall be entitled to additional remuneration for resulting additional expenses.

4.7 The services to be provided by TÜV Rheinland under the contract are agreed exclusively with the client. A contract of third parties with the services of TÜV Rheinland, as well as making available of and justifying confidence in the work results (test reports, test results, expert reports, etc.) are not part of the agreed services. This also applies if the client passes on work results - in full or in extracts - to third parties in accordance with clause 11.4.

4.8 The client understands and agrees to perform the contract with TÜV Rheinland, the client may need to sign one or more contracts/agreements with all/more third party(ies) and establish legal relationships with those/third party(ies) according to such contractual agreements. TÜV Rheinland hereby declares the corresponding legal liability according to this contract and the direct services actually to be provided by our company in the service process. If the relevant services are not directly provided by TÜV Rheinland (including but not limited to any testing and inspection services to be provided by third parties, test and inspection services, etc.), TÜV Rheinland will provide the client as agent for such relevant services. In order to achieve the purpose of the contract, the client hereby agrees that TÜV Rheinland (including but not limited to a third party) to partly undertake or to have its responsibilities, its own best and responsibility and/or risk for any services to be provided by any third parties (including but not limited to the testing and/or certification services to be entrusted and/or applied for by our company on behalf of the client to other testing and/or certification bodies, agency services provided by any other third party(ies), etc.). Besides, the client shall be liable in accordance with the relevant laws and regulations and/or the terms under the contract. If the client is required to provide any annual renewal/validity of the relevant services, TÜV Rheinland shall be responsible and pay additional fees in accordance with the relevant laws and regulations or the testing and certification rules, such fees are not within the scope of the contract price, the client shall timely fulfill the obligation to comply with the relevant laws and regulations or the testing and certification rules, which shall not be borne by TÜV Rheinland. If the client fails to perform such obligations of the annual renewal/surveillance or fees payment, it may lead to adverse consequences such as failure of the surveillance/invalidity of testing and/or certification results, which shall not be borne by TÜV Rheinland.

4.9 For the service contract agreed in the contract, if the client requires TÜV Rheinland to deliver relevant test samples, data, etc. to any overseas laboratory or other places or sites to be designated by the client, TÜV Rheinland shall not take any responsibility for any problems during such delivery and the transportation process (including but not limited to any loss or damages of the samples and/or the materials, etc.). Besides, the relevant freight fees shall be borne by the client.

5. **Performance period/dates**

5.1 The contractually agreed period/dates of performance are based on estimates of the work involved which are prepared in line with the details provided by the client. They shall only be binding if being confirmed as binding by TÜV Rheinland in writing.

5.2 If binding periods of performance have been agreed, these periods shall not commence until the client has submitted all required documents to TÜV Rheinland.

5.3 Articles 5.1 and 5.2 shall apply, even without express agreement by the client, to all extensions of agreed period/dates of performance not caused by TÜV Rheinland.

5.4 TÜV Rheinland is not responsible for a delay in performance, in particular if the client has not fulfilled his obligations in accordance with clause 1.1 and the client does not do so in time and, in particular, has not provided TÜV Rheinland with all documents and information required for the performance of the service as specified in the contract.

5.5 If the performance of TÜV Rheinland is delayed due to unforeseeable circumstances such as force majeure, strikes, business disruptions, governmental regulations, transport obstacles, etc., TÜV Rheinland is entitled to postpone performance for a reasonable period of time which corresponds at least to the duration of the hindrance plus any time period which may be required to resume performance.

5.6 If the client is obliged to comply with legal, officially prescribed and/or by the accreditator prescribed deadlines, it is the client's responsibility to ensure that the agreed deadlines of TÜV Rheinland are not violated, which enable the client to comply with the legal and/or officially prescribed deadlines. TÜV Rheinland assumes no responsibility in this respect unless TÜV Rheinland expressly agreed in writing specifically stating that ensuring the deadlines is the contractual obligation of TÜV Rheinland.

6. **The client's obligation to cooperate**

6.1 The client shall guarantee that all cooperation required on its part, its agents or third parties will be provided in good time and at no cost to TÜV Rheinland.

6.2 Design documents, supplies, auxiliary staff, etc. necessary for performance of the services shall be made available free of charge by the client. Moreover, collaborative action of the client must be undertaken in accordance with legal provisions, standards, safety regulations and accident prevention instructions. And the client represents and warrants that:

a) it has required statutory qualifications;

b) the product, service or management system to be certified complies with applicable laws and regulations; and

c) it doesn't have any legal and dishonest behaviours or is not included in the list of Enterprises with Serious Illegal and Dishonest Acts of People's Republic of China.

If the client breaches the aforesaid representations and warranties, TÜV Rheinland is entitled to i) immediately terminate the contract/order without prior notice; and ii) withdraw the issued testing report/certificates if any.

6.3 The client shall bear any additional cost incurred on account of work having to be redone or being delayed as a result of late, incorrect or incomplete information provided by or lack of proper cooperation from the client. Even where a fixed or maximum price is agreed, TÜV Rheinland shall be entitled to charge extra fees for such additional expense.

7. **Prices**

7.1 If the scope of performance is not laid down in writing when the order is placed, invoicing shall be based on costs actually incurred. If no price is agreed in writing, invoicing shall be based on the price list of TÜV Rheinland valid at the time of performance.

7.2 Unless otherwise agreed, work orders shall be issued by the client in writing.

7.3 If the execution of an order extends over more than one month and the value of the contract or the agreed fixed price exceeds €2,500.00 or equivalent value in local currency, TÜV Rheinland may demand payments on account or in instalments.

8. **Payment terms**

8.1 All invoice amounts shall be due for payment within 30 days of the invoice date without deduction on receipt of the invoice. No discounts and rebates shall be granted.

8.2 Payments shall be made to the bank account of TÜV Rheinland as indicated on the invoice, stating the invoice and client numbers.

8.3 In cases of default of payment, TÜV Rheinland shall be entitled to claim default interest at the applicable short term interest rate publicly announced by a reputable commercial bank in the country where TÜV Rheinland is located. At the same time, TÜV Rheinland reserves the right to claim further damages.

8.4 Should the client default in payment of the invoice despite being granted a reasonable grace period, TÜV Rheinland shall be entitled to cancel the contract, withdraw the certificate, claim damages for non-performance and refuse to continue performance of the contract.

8.5 The provisions set forth in article 8.4 shall also apply in cases involving returned cheques, cessation of payment, commencement of insolvency proceedings against the client's assets or cases in which the commencement of insolvency proceedings has been dismissed due to lack of assets.

8.6 Objections to the invoices of TÜV Rheinland shall be submitted in writing within two weeks of receipt of the invoice.

8.7 TÜV Rheinland shall be entitled to demand appropriate advance payments.

8.8 TÜV Rheinland shall be entitled to raise its fees at the beginning of a month if overheads and/or purchase costs have increased. In this case, TÜV Rheinland shall notify the client in writing of the rise in fees. This notification shall be issued one month prior to the date on which the rise in fees shall come into effect (period of notice of changes in fees). If the rise in fees exceeds 5% per contractual year, the client shall not have the right to terminate the contract. If the rise in fees exceeds 5% per contractual year, the client shall be entitled to terminate the contract by the end of the period of notice of changes in fees. If the contract is not terminated, the rise in fees shall be deemed to have been agreed upon by the time of the expiry of the notice period.

8.9 Only legally established and undisputed claims may be offset against claims by TÜV Rheinland.

8.10 TÜV Rheinland shall have the right at all times to set off any amount due or payable by the client, including but not limited to set off any amount due or payable by the client under any contracts, agreements and/or order/supplies reached with TÜV Rheinland.

9. **Acceptance of work**

9.1 Any part of the work result ordered which is complete in itself may be presented by TÜV Rheinland for acceptance as an instalment. The client shall be obliged to accept it immediately.

9.2 If acceptance is required or contractually agreed in an individual case, this shall be deemed to have taken place two (2) weeks after completion and handover of the work, unless the client refuses acceptance within this period stating at least one fundamental breach of contract by TÜV Rheinland.

9.3 The client is not entitled to refuse acceptance due to insignificant breach of contract by TÜV Rheinland.

9.4 If acceptance is excluded according to the nature of the work performance of TÜV Rheinland, the completion of the work shall take its place.

9.5 During the Follow-up/Audit stage, if the client was unable to make use of the time windows provided for within the scope of a certification procedure for auditing performance by TÜV Rheinland and the certificate is therefore to be withdrawn (e.g. performance of surveillance audits), or if the client refuses or postpones a confirmed audit date by TÜV Rheinland, TÜV Rheinland is, in its sole discretion, entitled to immediately charge a lump-sum compensation of 10% of the order amount as compensation for expenses. The client reserves the right to prove that the TÜV Rheinland has incurred no damage whatsoever or only a considerably lower damage than the above lump sum.

9.6 Insofar as the client has undertaken in the contract to accept services, TÜV Rheinland shall also be entitled to charge the above-sum damages in the event of a withdrawal of the order. The compensation for expenses if the service is not called within one year after the order has been placed. The client reserves the right to prove that the TÜV Rheinland has incurred no damage whatsoever or only a considerably lower damage than the above mentioned lump sum.

10. **Confidentiality**

10.1 For the purpose of these terms and conditions, "confidential information" means all know-how, trade secrets, documents, images, drawings, expertise, information, data, test results, reports, samples, project documents, pricing and financial information, customer and supplier information, and marketing techniques and applications, including but not limited to the following:

(i) information disclosed by one Party (the "disclosing party") to the other Party (the "receiving party"), in writing or orally, in printed or electronic form. Confidential information is expressly not the data and know-how not disclosed or transferred or assigned by TÜV Rheinland to the client, and not proprietary to the client) within the scope of the provision of services by TÜV Rheinland. TÜV Rheinland is entitled to store, use, further develop and pass on the data obtained in connection with the provision of services for the purposes of developing new services, improving services and analysing the provision of services.10.2 The disclosing party shall mark all confidential information disclosed in written form as confidential before passing it onto the receiving party. The same applies to confidential information transmitted by e-mail. If confidential information is disclosed orally, the receiving party shall be appropriately informed in advance and the disclosing party shall confirm in writing the confidentiality nature of the information within five working days of oral disclosure. Where the disclosing party does not do so, the confidentiality period, the receiving party shall not take any confidentiality obligations hereunder towards such information. The client shall avoid using any third party platform and/or system (e.g., Wechat, etc. Unauthorized by TÜV Rheinland) to send any confidential information to the client. The client shall send any confidential information to company email of TÜV Rheinland employees through its company email. If the client suffers from any losses or damages due to any theft or leakage to be caused by the adoption of and/or the use of the disclosing party's testing methods mentioned above, TÜV Rheinland shall be waived for any compensation liabilities.

10.3 All confidential information which the disclosing party transmits or otherwise discloses to the receiving party and which is created during performance of the contract by TÜV Rheinland, may only be used by the receiving party for the purposes of performing the contract, unless expressly otherwise agreed in writing by the disclosing party.

a) The client may not be copied, distributed, published or otherwise disclosed by the receiving party, unless this is necessary for fulfilling the purpose of the contract or TÜV Rheinland is required to pass on confidential information, inspection reports or documentation to the government authorities, official control, accreditation bodies or third parties (including but not limited to the relevant direct and/or indirect proposed purchasers, vehicle manufacturers/whole equipment manufacturers, test standards or test requirements providers of the client's test products and/or certified products, etc.).

b) The client may not be copied, distributed, published or otherwise disclosed by the receiving party, unless this is necessary for fulfilling the purpose of the contract or TÜV Rheinland is required to pass on confidential information, inspection reports or documentation to the government authorities, official control, accreditation bodies or third parties (including but not limited to the relevant direct and/or indirect proposed purchasers, vehicle manufacturers/whole equipment manufacturers, test standards or test requirements providers of the client's test products and/or certified products, etc.).

c) The client may not be copied, distributed, published or otherwise disclosed by the receiving party, unless this is necessary for fulfilling the purpose of the contract or TÜV Rheinland is required to pass on confidential information, inspection reports or documentation to the government authorities, official control, accreditation bodies or third parties (including but not limited to the relevant direct and/or indirect proposed purchasers, vehicle manufacturers/whole equipment manufacturers, test standards or test requirements providers of the client's test products and/or certified products, etc.).

10.4 The receiving party may disclose any confidential information received from the disclosing party only to those of its employees who need this information to perform the services required for the contract. The receiving party shall ensure that its employees to observe the same level of secrecy as set forth in this confidentiality clause.

10.5 Information for which the receiving party can furnish proof that:

a) it was generally known at the time of disclosure or has become general knowledge without the disclosure of confidential information by the disclosing party;

b) it was disclosed to the receiving party by a third party entitled to disclose this information; or

c) the receiving party already possessed this information prior to disclosure by the disclosing party, or

d) the receiving party developed it itself, irrespective of disclosure by the disclosing party, shall not be deemed to constitute "confidential information" as defined in this confidentiality clause.

10.6 All confidential information shall remain the property of the disclosing party. The receiving party hereby agrees to immediately (i) return all confidential information, including all copies, to the disclosing party, and (ii) on request by the disclosing party, to destroy all confidential information, including all copies, and to confirm the destruction of the confidential information to the disclosing party in writing, at any time if so requested by the disclosing party but at the latest and without special request after termination or expiry of the contract. This does not exclude reports and certificates prepared for the client for the client's fulfilling the obligations under the contract, which shall remain with the client. However, TÜV Rheinland is entitled to make file copies of such reports, certificates and confidential information that forms the basis for preparing these reports and certificates in order to comply with the requirements of the contract. General documentation purposes required by laws, regulations and the requirements of working procedures of TÜV Rheinland.

10.7 From the start of the contract and for a period of three years after termination or expiry of the contract, the receiving party shall maintain strict secrecy of all confidential information and shall not disclose this information to any third parties or use it for itself.

11. **Copyrights and rights of use, publications**

11.1 TÜV Rheinland shall retain all exclusive copyrights in the reports, expert reports/opinions, test reports/results, results, calculations, presentations, etc. prepared by TÜV Rheinland, unless expressly agreed by the parties in a separate agreement. As the owner of the copyrights, TÜV Rheinland is free to grant others the right to use the work results for individual or all types of use ("right of use").

11.2 The right of use is a simple, unlimited, non-transferable, non-sublicensable right of use to the contents of the work results produced within the scope of the contract, unless otherwise agreed by the parties in a separate agreement. The client may only use such reports, expert reports/opinions, test reports/results, results, calculations, etc. prepared within the scope of the contract for the contractually agreed purpose.

11.3 The transfer of right of use of the generated work results regulated in clause 11.2 of the GTBCB is subject to full payment of the remuneration for the work results by the client.

11.4 The client may use work results only complete and unshortened. The client may only pass on the work results in full unless TÜV Rheinland has given its prior written consent to the partial passing on of work results.

11.5 Any publication or duplication of the work results for advertising purposes or any further use of the work results beyond the scope regulated in clause 11.2, and any quotation of the introduction of TÜV Rheinland results by the prior written approval of TÜV Rheinland in each individual case. Besides, the client ensures that the aforesaid use shall comply with relevant applicable laws, regulations and relevant rules (including but not limited to specific applicable testing and certification rules, etc.).

11.6 TÜV Rheinland may revoke a once given approval according to clause 11.5 at any time without stating reasons. In this case, the client is obliged to stop the transfer of the work results immediately at his own expense and, as far as possible, to ensure that the work results are not further used.

11.7 The consent of TÜV Rheinland to publication or duplication of the work results does not entitle the client to use the corporate logo, corporate design or testification mark of TÜV Rheinland.

12. **Liability of TÜV Rheinland**

12.1 Irrespective of the legal basis, to the fullest extent permitted by applicable law, in the event of a breach of contractual obligations or tort, the liability of TÜV Rheinland for all damages, losses and reimbursement of expenses caused by TÜV Rheinland, its legal representatives and/or employees shall be limited to: (i) in the case of a contract with a fixed overall fee, three times the overall fee for the entire contract; (ii) in the case of a contract for an annually recurring services, the agreed annual fee; (iii) in the case of a contract expressly charged on a time and material basis, a maximum of 20,000 Euro or equivalent amount in local currency; and (iv) in the case of a framework agreement that provides for the possibility of placing individual orders, three times of the fee for the individual order under which the damages or losses have occurred. Notwithstanding the above, in the event that the total and accumulated liability calculated according to the foregoing provisions exceeds 25 Million Euro or equivalent amount in local currency, the total and accumulated liability of TÜV Rheinland shall be only limited to and shall not exceed the said 25 Million Euro or equivalent amount in local currency.

12.2 The limitation of liability according to article 12.1 above shall not apply to damages and/or losses caused by malice, intent or gross negligence on the part of TÜV Rheinland or its vicarious agents. Such limitation shall not apply to damages for a person's death, the total injury or illness.

12.3 In cases involving a fundamental breach of contract, TÜV Rheinland will be liable even where minor negligence is involved. For this purpose, a fundamental breach is a breach of a material contractual obligation, the performance of which permits the due performance of the contract. Any claim for damages for a fundamental breach of contract shall be limited to the amount of damages reasonably foreseen as a possible consequence of such breach of contract at the time of the breach (reasonably foreseeable damages), unless any of the circumstances described in article 12.2 applies.

12.4 TÜV Rheinland shall not be liable for the acts of the personnel made available by the client to support TÜV Rheinland in the performance of the services or the acts of the personnel of such personnel made available as regarded as vicarious agent of TÜV Rheinland. If TÜV Rheinland is not liable for the acts of the personnel made available by the client under the foregoing provision, the client shall indemnify TÜV Rheinland against any claims made by third parties arising from or in connection with such personnel's acts.

12.5 Unless otherwise contractually agreed in writing, TÜV Rheinland shall only be liable under the contract for damages caused by the personnel of TÜV Rheinland.

12.6 The limitation periods for claims for damages shall be based on statutory provisions.

12.7 None of the provisions of this article 12 changes the burden of proof to the disadvantage of the client.

13. **Export control**

13.1 When passing on the services provided by TÜV Rheinland or parts thereof to third parties in Greater China or other regions, the client must comply with the respectively applicable regulations of national and international export control laws.

13.2 The performance of a contract with the client is subject to the proviso that there are no obstacles to performance due to national or international foreign trade legislations or embargos and/or

sanctions. In the event of a violation, TÜV Rheinland is entitled to terminate the contract with immediate effect and the client shall compensate for the losses incurred thereof by TÜV Rheinland.

14. **Data protection notice**

The client understands and agrees that TÜV Rheinland processes personal data (including but not limited to personal information) of the client and its related parties (including but not limited to the supplier of the client) for the purpose of fulfilling this contract. The client confirms that it has obtained the prior consent of the data subject, which entitles TÜV Rheinland to access, use, or process the personal data that the client collected or processed by itself and transferred to TÜV Rheinland. For certain services, we may also process sensitive personal data. TÜV Rheinland will use and process the data in accordance with the relevant legal basis. If any personal data has been disclosed or transferred to any third party or any overseas party outside of the district in which the personal data was collected, the client must confirm that it has obtained the prior consent of the data subject. TÜV Rheinland will carry out cross-border data transmission and protect the data in compliance with the privacy and personal data security related laws and regulations in China and the local country. TÜV Rheinland will take measures to avoid any leakage, abuse, manipulation, damage or unauthorized access of personal data. The personal data will be deleted immediately as soon as a corresponding reason for deletion arises. Data subjects may exercise the following rights: right of information, right of decision, right of rectification, right of deletion, right of processing limitation, right of objection, right of data transferability. In addition, persons concerned by the data processing have the right to revoke their consent at any time with effect for the future, as well as the right to file a complaint with the competent data protection supervisory authority. For further details on the processing of personal data by TÜV Rheinland as the person responsible or contract processor, please refer to the respective data protection information. You can contact the Group Data Protection Officer of TÜV Rheinland by e-mail at dataprotection@tuv.com or by post at the following address: TÜV Rheinland AG, c/o Group Data Protection Officer, Am Grauen Stein, 51105 Cologne, Germany.

15. **Retention of test material and documentation**

15.1 The test samples submitted by the client to TÜV Rheinland for testing will be scrapped following testing or will be returned to the client at the client's expense. The only exceptions are test samples, which are placed in storage on the basis of statutory regulations or of another agreement with the client.

15.2 Charges apply if the test samples are stored at the premises of TÜV Rheinland. The cost of placing a test sample into storage will be disclosed to the client in the quotation.

15.3 Reference samples or documentation are given to the client and shall be placed in storage at their premises, the reference samples or documents must be made available to TÜV Rheinland upon request promptly and free of charge. If the client, in response to such a request, is incapable of making or providing the reference samples or documents, any liability claims for material and pecuniary damage resulting from the respective testing and certification that is brought forward by the client against TÜV Rheinland shall be voided.

15.4 The retention period for the documentation shall be determined by the expiry of the test mark certificates or shall meet the applicable legal requirements for EU/EEA certificates of conformity and GS mark certificates.

15.5 The client is responsible for the handling and dispatch of the test samples for storage on the client's premises are borne by the client. TÜV Rheinland will be liable for the loss of test samples or reference samples from the laboratories or warehouses of TÜV Rheinland only in case of gross negligence.

16. **Termination of the contract**

16.1 Notwithstanding clause 3.2 of the GTBCB, TÜV Rheinland and the client are entitled to terminate the contract in its entirety or, in the case of services combined in one contract, each of the combined parts of the contract individually and independently of the continuation of the remaining services with six (6) months' notice to the end of the contractually agreed term. The notice period shall be shortened to six (6) weeks in case of TÜV Rheinland is prevented from performing the services due to a loss or suspension of its accreditation or notification.

For good causes, TÜV Rheinland may consider giving a written notice to the client to terminate the contract without being any liabilities and/or damages to the client shall pay the relevant service fees for the services provided by TÜV Rheinland due to the termination date of the contract. The aforesaid good causes includes but not limited to the following:

a) the client does not immediately notify TÜV Rheinland of any material changes in the conditions within which the company which are relevant for certification or signs of such changes;

b) the client misuses the certificate or certification mark or uses it in violation of the contract;

c) in the event of several consecutive delays in payment (at least three times);

d) a substantial deterioration of the financial circumstances of the client occurs and as a result the payment claims of TÜV Rheinland under the contract are considerably endangered and TÜV Rheinland cannot reasonably be expected to continue the contractual relationship;

e) in the event of any serious misrepresentation, be it by intentional fraud or grossly negligent behavior of the managers, employees or agents of the client;

f) if TÜV Rheinland, at its discretion, considers beyond a reasonable doubt that the client intends to continue or finalize the performance of the service, e.g. in case of force majeure, government interference, sanctions, loss of accreditation or notification, or other.

g) If the country/region involved in the contract is subject to a service project in the contract does not belong to the insurance coverage applicable to TÜV Rheinland, and TÜV Rheinland believes that there is a risk or some risks beyond its control to continue to perform the contract.

h) The event of termination with written notice by TÜV Rheinland for good cause, TÜV Rheinland shall be entitled to a lump-sum claim for damages against the client if the conditions of a claim for damages exist. In this case, the client shall owe 15% of the remuneration to be paid until the end of the fixed contract term. The lump-sum claim shall be payable immediately after the notice, if there is no damage or a considerably lower damage, TÜV Rheinland reserves the right to prove a considerably higher damage in individual cases.

16.4 If the client terminates the contract with written notice if the client has not been able to make use of the time windows for auditing /service provision provided by TÜV Rheinland within the scope of a certification procedure and the certificate therefore has to be withdrawn (for example during the performance of monitoring audits), clause 16.3 applies accordingly.

17. **Force Majeure**

17.1 "Force Majeure" means the occurrence of an event or circumstance that prevents or impedes a Party from performing one or more of its contractual obligations under the contract, if and to the extent that that Party proves: (a) that such impediment is beyond its reasonable control; and (b) that it could not reasonably have been prevented or overcome by the Party. The event or circumstance that the effects of the impediment could not reasonably have been avoided or overcome by the affected Party.

17.2 In the absence of proof to the contrary, the following events affecting a Party shall be presumed to fulfill conditions (a) and (b) under paragraph 1 of this Clause: (i) war (whether declared or not), hostilities, invasion, act of foreign enemies, extensive military mobilization; (ii) civil war, riot, rebellion and related disturbances; (iii) epidemic, pandemic, natural disaster or extreme natural event; (iv) piracy; (v) currency and trade restriction, embargo, sanction; (vi) act of authority whether lawful or unlawful, compliance with any law or governmental order, expropriation, seizure of works, equipment, nationalization; (vii) plague, epidemic, natural disaster or extreme natural event; (viii) explosion, fire, destruction of equipment, prolonged breakdown of transport, telecommunication, information system or energy; (ix) general labor disturbance such as boycott, strike and lock-out; or (x) slow, occupation of factories and premises.

17.3 The Party successfully invoking this Clause is relieved from its duty to perform its obligations under the contract and from any liability in damages or from any other contractual remedy for breach of contract at the time at which the impediment or its consequences began to perform, provided that the notice thereof is given without delay. If notice thereof is not given without delay, the relief is effective from the time at which notice thereof reaches the other Party. Where the effect of the impediment or its consequences is temporary, the above conditions shall apply for as long as the impediment involved impedes performance by the affected Party. Where the duration of the impediment involved has the effect of substantially depriving the contracting Parties of what they were reasonably entitled to expect under the contract, either Party has the right to terminate the contract by notification within a reasonable period to the other Party. Unless otherwise agreed, the Parties expressly agree that the contract may be terminated by either Party if the duration of the impediment exceeds 120 days.

18. **Hardship**

18.1 The Parties are bound to perform their contractual duties even if events have rendered performance more onerous than could reasonably have been anticipated at the time of the conclusion of the contract.

18.2 Notwithstanding paragraph 1 of this Clause, where a Party proves that:

(a) the continued performance of its contractual duties has become excessively onerous due to an event beyond its reasonable control which it could not reasonably have been expected to have taken into account at the time of the conclusion of the contract; and

(b) it could not reasonably have avoided or overcome the event or its consequences, the Parties are bound, within a reasonable time of the invocation of this Clause, to negotiate alternative contractual terms which reasonably allow to overcome the consequences of the event.

18.3 Where Clause 18.2 applies, but where the Parties have been unable to agree to alternative contractual terms as provided in that paragraph, the Party invoking this Clause is entitled to terminate the contract, but cannot request adaptation by the judge or arbitrator without the agreement of the other Party.

19. **Partial invalidity, written form, place of jurisdiction and dispute resolution**

19.1 All amendments and supplements must be in writing in order to be effective. This also applies to amendments and supplements to this clause 19.1.

19.2 Should one or several of the provisions under the contract and/or these terms and conditions be or become ineffective, the contracting parties shall replace the invalid provision with a legally valid provision that comes closest to the content of the invalid provision in legal and commercial terms.

19.3 Unless otherwise stipulated in the contract, the governing law of the contract and these terms and conditions shall be the law of the People's Republic of China.

a) If TÜV Rheinland in question is legally registered and existing in the People's Republic of China, the contracting parties hereby agree that the contract and these terms and conditions shall be governed by the law of the People's Republic of China.

b) If TÜV Rheinland in question is legally registered and existing in Taiwan, the contracting parties hereby agree that the contract and these terms and conditions shall be governed by the laws of Taiwan.

c) If TÜV Rheinland in question is legally registered and existing in Hong Kong, the contracting parties hereby agree that the contract and these terms and conditions shall be governed by the laws of Hong Kong.

19.4 Any dispute in connection with the contract and these terms and conditions or the execution thereof shall be settled friendly through negotiations.

19.5 Unless otherwise stated in the contract, no agreement or no agreement in respect of the extension of the negotiation period can be reached within two months of the arising of the dispute, the dispute shall be submitted:

a) in the case of TÜV Rheinland in question being legally registered and existing in the People's Republic of China, to China International Economic and Trade Arbitration Commission (CIETAC) to be settled by arbitration under the Arbitration Rules of CIETAC in force when the arbitration is submitted. The arbitration shall take place in Beijing, Shanghai, Shenzhen or Chongqing as appropriately chosen by the claiming party.

b) in the case of TÜV Rheinland in question being legally registered and existing in Taiwan, to Chinese Arbitration Association (CAA) to be settled by arbitration in accordance with its then current Rules of Arbitration. The arbitration shall take place in Taipei.

c) in the case of TÜV Rheinland in question being legally registered and existing in Hong Kong, to Hong Kong International Arbitration Centre (HKIAC) to be settled by arbitration under the arbitration under the Administered Arbitration Rules in force when the Notice of Arbitration is submitted in accordance with these rules. The arbitration shall take place in Hong Kong.

d) the decision of the relevant arbitration shall be final and binding on both parties. The arbitration fee shall be borne by the losing party.