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Report No.:	**244457273b 001**
Client:	**FOXESS CO., LTD.**
Contact Information:	No.939, Jinhai Third Road, New Airport Industry Area, Longwan District, Wenzhou, Zhejiang, P. R. China
Test item(s):	311 materials
Identification/ Model No(s):	Rechargeable Li-ion Battery Module CM2900, CM4100, CM4300H, CS2900, CS4100, CS4300H
Condition at delivery:	Test item complete and undamaged.
Sample Receiving date:	2022-06-06, 2022-07-12, 2022-07-24, 2022-08-11, 2022-08-21
Testing Period:	2022-06-15 to 2022-08-25
Place of testing:	Chemical laboratory Shenzhen

Test Specification:	***Test result:***
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	PASS

Other information:

The tested materials comply with the above listed requirement.

Remark: All data refer to 244422418b 001.

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

2022-11-02 — Ryan Chen / Section Manager

Date — *Name/Position*

Material List:

Item: Rechargeable Li-ion Battery Module

CM2900, CM4100, CM4300H, CS2900, CS4100, CS4300H

Material No.	Material	Color	Location
M001	Coating	Light grey/ dark grey	Refer to photo
M002	Metal	Dull silvery	Refer to photo
M003	Plastic	White	Refer to photo
M004	Plastic + adhesive	Black	Refer to photo
M005	Plastic	Yellow	Refer to photo
M006	Foam + adhesive	Grey	Refer to photo
M007	Plastic	Bright black	Refer to photo
M008-1	Plastic + adhesive	Dull white	Refer to photo (retest M008)
M009	Plastic + adhesive	Red	Refer to photo
M010	Metal	Silvery	Refer to photo
M011	Plastic	White	Refer to photo
M012	Metal	Silvery	Refer to photo
M013	Metal	Silvery	Refer to photo
M014	Metal	Silvery	Refer to photo
M015	Plastic	Black	Refer to photo
M016	Plastic	Dull white	Refer to photo
M017	PCB board	Brown	Refer to photo
M018	PCB board	Green	Refer to photo
M019	Glue	Translucent white	Refer to photo
M020	Solder	Silvery	Refer to photo
M021	Plastic + printing + adhesive	Silvery/ black	Refer to photo
M022	Metal	Silvery	Refer to photo
M023	Plastic	Grey	Refer to photo
M024	Plastic	Black	Refer to photo
M025	Metal	Silvery	Refer to photo
M026	Plastic	Black	Refer to photo
M027	Metal	Silvery	Refer to photo
M028	Metal	Silvery	Refer to photo

M029	Paper + adhesive	Dark green	Refer to photo
M030	Plastic	Orange	Refer to photo
M031	Metal	Silvery	Refer to photo
M032	Plastic	Orange	Refer to photo
M033	Metal	Silvery	Refer to photo
M034	Metal	Silvery	Refer to photo
M035	Metal	Silvery	Refer to photo
M036	Plastic	Dark red	Refer to photo
M037-1	Metal	Golden	Refer to photo (retest M037)
M038	Plastic	Dark grey	Refer to photo
M039	Metal	Silvery	Refer to photo
M040	Metal	Silvery	Refer to photo
M041	Plastic	Light grey	Refer to photo
M042	Plastic	Light grey	Refer to photo
M043	Plastic	Light grey	Refer to photo
M044	Metal	Silvery	Refer to photo
M045	Plastic + printing + adhesive	Transparent/ black	Refer to photo
M046	Plastic	Transparent grey	Refer to photo
M047	Plastic + printing + adhesive	White/ multicolor	Refer to photo
M048	Plastic + adhesive	Green	Refer to photo
M049	Plastic + printing	Black/ white	Refer to photo
M050	Plastic + printing + adhesive	Transparent/ white/ black	Refer to photo
M051	Plastic	Black	Refer to photo
M052	Metal	Silvery	Refer to photo
M053	Plastic	Transparent	Refer to photo
M054	Metal	Golden	Refer to photo
M055	Metal + plating	Silvery/ blue	Refer to photo
M056	Plastic	Transparent	Refer to photo
M057	Plastic	Brown	Refer to photo
M058	Plastic	Brown/ white	Refer to photo

M059	Plastic	Blue	Refer to photo
M060	Plastic	Blue/ white	Refer to photo
M061	Plastic	Orange	Refer to photo
M062	Plastic	Orange/ white	Refer to photo
M063	Plastic	Green	Refer to photo
M064	Plastic	Green/ white	Refer to photo
M065	Metal	Coppery	Refer to photo
M066	Metal	Silvery	Refer to photo
M067	Plastic + printing + adhesive	White/ black	Refer to photo
M068	Textile + adhesive	Black	Refer to photo
M069	Plastic	White	Refer to photo
M070	Glue	White	Refer to photo
M071	Metal	Silvery	Refer to photo
M072	Plastic + printing	White/ black	Refer to photo
M073	Plastic	Black	Refer to photo
M074	Plastic	Red	Refer to photo
M075	Plastic + printing	White/ black	Refer to photo
M076	Textile	White	Refer to photo
M077	Plastic	White	Refer to photo
M078	Plastic	Red	Refer to photo
M079	Plastic	Black	Refer to photo
M080	Plastic	Yellow	Refer to photo
M081	Plastic	Purple	Refer to photo
M082	Plastic	Blue	Refer to photo
M083	Plastic	Red	Refer to photo
M084	Metal	Silvery	Refer to photo
M085	Plastic	Light blue	Refer to photo
M086	Plastic	Green	Refer to photo
M087	Plastic	Brown	Refer to photo
M088	Plastic	Grey	Refer to photo
M089	Plastic	Light orange	Refer to photo
M090	Metal	Dull silvery	Refer to photo

M091	Plastic + printing	White/ black	Refer to photo
M092	Plastic	Yellow/ green	Refer to photo
M093	Plastic	Black	Refer to photo
M094	Plastic	Dark red	Refer to photo
M095	Metal	Silvery	Refer to photo
M096	Plastic	Black	Refer to photo
M097	Plastic	Dark red	Refer to photo
M098	Plastic	Matt black	Refer to photo
M099	Metal	Dull silvery	Refer to photo
M100	Metal	Dull silvery	Refer to photo
M101	Plastic	Black	Refer to photo
M102	Plastic	Dull blue	Refer to photo
M103	Plastic	Dull white	Refer to photo
M104	Plastic	Dull white	Refer to photo
M105	Plastic	Black	Refer to photo
M106	Plastic	Dull white	Refer to photo
M107	Plastic	Red	Refer to photo
M108	Plastic	Black	Refer to photo
M109	Plastic + printing	Black/ white	Refer to photo
M110	Plastic	White	Refer to photo
M111	Plastic	Red	Refer to photo
M112	Plastic	Black	Refer to photo
M113	Plastic	Yellow	Refer to photo
M114	Plastic	Purple	Refer to photo
M115	Plastic	Blue	Refer to photo
M116	Plastic	Orange	Refer to photo
M117	Plastic	Green	Refer to photo
M118-1	Plastic	Black	Refer to photo (retest M118)
M120	Plastic	Black	Refer to photo
M121	Plastic + printing	Black/ white	Refer to photo
M122	Plastic	Yellow/ green	Refer to photo
M123	Plastic	Dark red	Refer to photo

M124	Plastic + printing	Dull red/ black	Refer to photo
M125	Metal	Golden	Refer to photo
M126	Metal	Silvery	Refer to photo
M127	Metal	Silvery	Refer to photo
M128	Metal	Silvery	Refer to photo
M129	Plastic + printing	Black/ white	Refer to photo
M130	Plastic	Brown	Refer to photo
M131	Plastic	Brown/ white	Refer to photo
M132	Plastic	Green	Refer to photo
M133	Plastic	Green/ white	Refer to photo
M134	Plastic	Blue	Refer to photo
M135	Plastic	Blue/ white	Refer to photo
M136	Plastic	Orange	Refer to photo
M137	Plastic	Orange/ white	Refer to photo
M138	Metal	Silvery	Refer to photo
M140	Plastic	Black	Refer to photo
M141	Plastic	Black	Refer to photo
M142	Plastic	Black	Refer to photo
M143	Glue	Black	Refer to photo
M144	Metal	Silvery	Refer to photo
M145	Metal	Golden	Refer to photo
M146	Solder	Silvery	Refer to photo
M147	PCB board	Green	Refer to photo
M148	Metal	Silvery	Refer to photo
M149	Metal	Silvery	Refer to photo
M150	Plastic	Blue	Refer to photo
M151	Plastic	Translucent white	Refer to photo
M152	Plastic	Translucent	Refer to photo
M153	Plastic	Grey	Refer to photo
M154	Plastic	Blue	Refer to photo
M155	Metal	Silvery	Refer to photo
M156	Plastic	Red	Refer to photo

M157	Plastic	Black	Refer to photo
M158	Foam + adhesive	Black	Refer to photo
M159	Coating	Black	Refer to photo
M160	Plastic	Transparent	Refer to photo
M161	Metal	Golden	Refer to photo
M162	Plastic	Black	Refer to photo
M163-2	Plastic	Black	Refer to photo (retest M163)
M164	Plastic	Black	Refer to photo
M165	Plastic	Black	Refer to photo
M166	Plastic + adhesive	Black	Refer to photo
M167	Plastic	Black	Refer to photo
M168	Plastic	Blue	Refer to photo
M169	Plastic	Blue	Refer to photo
M170	Plastic	Yellow	Refer to photo
M171	Plastic	White	Refer to photo
M172	Plastic	Translucent white	Refer to photo
M173	Plastic	Black	Refer to photo
M174	Metal	Silvery	Refer to photo
M175	Plastic + printing + adhesive	White/ black	Refer to photo
M176	Sand	Light brown	Refer to photo
M177	Plastic	White	Refer to photo
M178	Plastic + Textile	Black	Refer to photo
M179	Plastic + Textile	White	Refer to photo
M180	Plastic	Light grey	Refer to photo
M181	Plastic	White	Refer to photo
M182	Plastic	Black	Refer to photo
M183	Metal	Silvery	Refer to photo
M184	Glue	Light grey	Refer to photo
M185	Plastic	Beige	Refer to photo
M186	Metal	Silvery	Refer to photo
M187	Metal	Silvery	Refer to photo
M188	Magnet	Silvery	Refer to photo

M189	Metal	Silvery	Refer to photo
M190	Plastic	Black	Refer to photo
M191	Plastic	White	Refer to photo
M192	Plastic	Beige	Refer to photo
M193	Metal	Silvery	Refer to photo
M194	Metal	Coppery	Refer to photo
M195	Metal	Coppery	Refer to photo
M196	Plastic + adhesive	Transparent yellow	Refer to photo
M197	Metal	Coppery	Refer to photo
M198	Metal	Dull silvery	Refer to photo
M199	Plastic	Beige	Refer to photo
M200	Plastic + printing + adhesive	Multicolor	Refer to photo
M201	Metal	Silvery	Refer to photo
M202	Plastic + adhesive	Light green	Refer to photo
M203	Plastic + printing	Light grey/ black/ green	Refer to photo
M204	Plastic	Dark grey	Refer to photo
M205	Plastic	Green	Refer to photo
M206	Plastic	Beige	Refer to photo
M207	Metal	Silvery	Refer to photo
M208	Paper	Dark green	Refer to photo
M209	Metal	Bright silvery	Refer to photo
M210	Metal	Coppery	Refer to photo
M211	Metal	Silvery	Refer to photo
M212	Metal	Silvery	Refer to photo
M213	Plastic	White	Refer to photo
M214	Plastic	Beige	Refer to photo
M215	Metal	Silvery	Refer to photo
M216	Metal	Coppery/ silvery	Refer to photo
M217	Metal	Coppery	Refer to photo
M218	Plastic	Beige	Refer to photo
M219	Plastic + printing	Light brown/ red/ green	Refer to photo
M220	Metal	Silvery	Refer to photo

M221	Plastic	White	Refer to photo
M222	Metal + plating	Silvery/ black	Refer to photo
M223	Plastic	Dark brown	Refer to photo
M224	Plastic	Black	Refer to photo
M225	Metal	Golden	Refer to photo
M226	Metal + plating	Silvery/ black	Refer to photo
M227	Plastic	Red	Refer to photo
M228	Metal	Silvery	Refer to photo
M229	Metal	Silvery	Refer to photo
M230	Metal	Silvery	Refer to photo
M231	Plastic	Transparent	Refer to photo
M232	Solder	Silvery	Refer to photo
M233	PCB board	Green	Refer to photo
M234	Solder	Silvery	Refer to photo
M235	PCB board	Green	Refer to photo
M236	Solder	Silvery	Refer to photo
M237	PCB board	Green	Refer to photo
M238	Plastic	Red	Refer to photo
M239	Metal	Silvery	Refer to photo
M240	Metal	Silvery	Refer to photo
M241	Plastic	White	Refer to photo
M242	Plastic	White	Refer to photo
M243	Plastic	Beige	Refer to photo
M244	Plastic	Black	Refer to photo
M245	Plastic	Dark grey	Refer to photo
M246	PCB board	Light green	Refer to photo
M247	Solder	Silvery	Refer to photo
M248	PCB board	Green	Refer to photo
M249	Electronic components	Black	Refer to photo
M250	Electronic components	Black	Refer to photo
M251	Electronic components	Orange	Refer to photo
M252	Electronic components	Blue	Refer to photo

M253	Plastic	Matt black	Refer to photo
M254	Plastic	Dark grey	Refer to photo
M255	Electronic components	White/ dark green	Refer to photo
M256	Plastic	Black	Refer to photo
M257	Metal	Silvery	Refer to photo
M258	Metal	Coppery	Refer to photo
M259	Metal	Silvery/ coppery	Refer to photo
M260	Metal	Coppery	Refer to photo
M261	Metal	Silvery/ coppery	Refer to photo
M262	Plastic	Black	Refer to photo
M263	Plastic + printing	Brown/ white	Refer to photo
M264	Metal	Silvery	Refer to photo
M265	Plastic	Black	Refer to photo
M266	Electronic components	Black/ silvery	Refer to photo
M267	Plastic	Black	Refer to photo
M268	Plastic	White	Refer to photo
M269	Metal	Silvery	Refer to photo
M270	Plastic	Black	Refer to photo
M271	Electronic components	Black	Refer to photo
M272	Plastic	Black	Refer to photo
M273	Electronic components	Black	Refer to photo
M274	Plastic	Black	Refer to photo
M275	Magnet	Black	Refer to photo
M276	Glue	Black	Refer to photo
M277	Solder	Silvery	Refer to photo
M278	PCB board	Green	Refer to photo
M279	Metal	Coppery	Refer to photo
M280	Metal	Silvery	Refer to photo
M281	Electronic components	Black	Refer to photo
M282	Electronic components	Black	Refer to photo
M283	Electronic components	Black	Refer to photo
M284	Metal	Silvery	Refer to photo

M285	Plastic	Black	Refer to photo
M286	Electronic components	Black	Refer to photo
M287	Electronic components	Black	Refer to photo
M288	Electronic components	Black	Refer to photo
M289	Electronic components	Black	Refer to photo
M290	Magnet	Matt black	Refer to photo
M291	Plastic + printing	Dark blue/ white	Refer to photo
M292	Metal + plating	Silvery/ black	Refer to photo
M293	Plastic	Black	Refer to photo
M294	Plastic	Black	Refer to photo
M295	Magnet	Black	Refer to photo
M296	Plastic	Black	Refer to photo
M297	Plastic + adhesive	Yellow	Refer to photo
M298	Plastic	Translucent	Refer to photo
M299	Plastic + adhesive	Beige	Refer to photo
M300	Plastic	Transparent/ orange	Refer to photo
M301	Metal	Coppery	Refer to photo
M302	Metal	Silvery	Refer to photo
M303	Electronic components	White/ silvery	Refer to photo
M304	Electronic components	Black	Refer to photo
M305	Solder	Silvery	Refer to photo
M306	PCB board	Green	Refer to photo
M307	Electronic components	Brown	Refer to photo
M308	Electronic components	Black/ white	Refer to photo
M309	Electronic components	Black	Refer to photo
M310	Electronic components	Black/ white	Refer to photo
M311	Metal	Silvery	Refer to photo
M312	Metal	Silvery	Refer to photo
M313	Metal	Silvery	Refer to photo

Test Report No.: 244457273b 001

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	d.(*1)
M006	BL	BL	BL	BL	BL
M007	BL	BL	BL	BL	BL
M008-1	BL	BL	BL	BL	BL
M009	BL	BL	BL	BL	BL
M010	BL	BL	BL	BL	n.a.
M011	BL	BL	BL	BL	BL
M012	BL	d.(*1)	BL	BL	n.a.
M013	BL	BL	BL	BL	n.a.
M014	BL	BL	BL	BL	n.a.
M015	BL	BL	BL	BL	BL
M016	BL	BL	BL	BL	d.(*1)
M017	BL	BL	BL	BL	BL
M018	BL	BL	BL	BL	d.(*1)
M019	BL	BL	BL	BL	d.(*1)
M020	BL	BL	BL	BL	n.a.
M021	BL	BL	BL	BL	BL
M022	BL	BL	BL	BL	n.a.
M023	BL	BL	BL	BL	BL
M024	BL	BL	BL	BL	BL
M025	BL	d.(*1)	BL	BL	n.a.
M026	BL	BL	BL	BL	BL
M027	BL	d.(*1)	BL	BL	n.a.
M028	BL	d.(*1)	BL	BL	n.a.
M029	BL	BL	BL	BL	BL
M030	BL	BL	BL	BL	BL
M031	BL	BL	BL	BL	n.a.
M032	BL	BL	BL	BL	d.(*1)
M033	BL	BL	BL	BL	n.a.
M034	BL	d.(*1)	BL	BL	n.a.
M035	BL	BL	BL	BL	n.a.
M036	BL	BL	BL	BL	BL
M037-1	BL	BL	d.(*1)	BL	n.a.

M038	BL	BL	BL	BL	BL
M039	BL	d.(*1)	BL	BL	n.a.
M040	BL	d.(*1)	BL	BL	n.a.
M041	BL	BL	BL	BL	BL
M042	BL	BL	BL	BL	BL
M043	BL	BL	BL	BL	BL
M044	BL	BL	BL	BL	n.a.
M045	BL	BL	BL	BL	BL
M046	BL	BL	BL	BL	BL
M047	BL	BL	BL	BL	BL
M048	BL	BL	BL	BL	BL
M049	BL	BL	BL	BL	BL
M050	BL	BL	BL	BL	BL
M051	BL	BL	BL	BL	BL
M052	BL	BL	BL	BL	n.a.
M053	BL	BL	BL	BL	BL
M054	BL	BL	BL	BL	n.a.
M055	BL	BL	BL	BL	n.a.
M056	BL	BL	BL	BL	BL
M057	BL	BL	BL	BL	BL
M058	BL	BL	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	BL
M064	BL	BL	BL	BL	BL
M065	BL	BL	BL	BL	n.a.
M066	BL	BL	BL	BL	n.a.
M067	BL	BL	BL	BL	BL
M068	BL	BL	BL	BL	BL
M069	BL	BL	BL	BL	BL
M070	BL	BL	BL	BL	BL
M071	BL	BL	BL	BL	n.a.
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	BL
M077	BL	BL	BL	BL	BL
M078	BL	BL	BL	BL	BL
M079	BL	BL	BL	BL	BL
M080	BL	BL	BL	BL	BL

M081	BL	BL	BL	BL	BL
M082	BL	BL	BL	BL	BL
M083	BL	BL	BL	BL	BL
M084	BL	BL	BL	BL	n.a.
M085	BL	BL	BL	BL	BL
M086	BL	BL	BL	BL	BL
M087	BL	BL	BL	BL	BL
M088	BL	BL	BL	BL	BL
M089	BL	BL	BL	BL	BL
M090	BL	BL	BL	BL	n.a.
M091	BL	BL	BL	BL	BL
M092	BL	BL	BL	BL	BL
M093	BL	BL	BL	BL	BL
M094	BL	BL	BL	BL	BL
M095	BL	BL	BL	BL	n.a.
M096	BL	BL	BL	BL	BL
M097	BL	BL	BL	BL	BL
M098	BL	BL	BL	BL	d.(*1)
M099	BL	BL	BL	BL	n.a.
M100	BL	BL	BL	BL	n.a.
M101	BL	BL	BL	BL	d.(*1)
M102	BL	BL	BL	BL	BL
M103	BL	BL	BL	BL	BL
M104	BL	BL	BL	BL	BL
M105	BL	BL	BL	BL	BL
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	BL
M111	BL	BL	BL	BL	BL
M112	BL	BL	BL	BL	BL
M113	BL	BL	BL	BL	BL
M114	BL	BL	BL	BL	BL
M115	BL	BL	BL	BL	BL
M116	BL	BL	BL	BL	BL
M117	BL	BL	BL	BL	BL
M118-1	BL	BL	BL	BL	BL
M120	BL	BL	BL	BL	BL
M121	BL	BL	BL	BL	BL
M122	BL	BL	BL	BL	BL
M123	BL	BL	BL	BL	BL
M124	BL	BL	BL	BL	BL

M125	d.(*1)	BL	d.(*1)	BL	n.a.
M126	BL	BL	d.(*1)	BL	n.a.
M127	BL	BL	d.(*1)	BL	n.a.
M128	BL	BL	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	BL
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	n.a.
M140	BL	BL	BL	BL	BL
M141	BL	BL	BL	BL	BL
M142	BL	BL	BL	BL	BL
M143	BL	BL	BL	BL	BL
M144	BL	BL	BL	BL	n.a.
M145	BL	BL	BL	BL	n.a.
M146	BL	BL	BL	BL	n.a.
M147	BL	BL	BL	BL	d.(*1)
M148	BL	BL	d.(*1)	BL	n.a.
M149	BL	BL	BL	BL	n.a.
M150	BL	BL	BL	BL	BL
M151	BL	BL	BL	BL	BL
M152	BL	BL	BL	BL	BL
M153	BL	BL	BL	BL	BL
M154	BL	BL	BL	BL	BL
M155	BL	BL	BL	BL	n.a.
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	d.(*1)	BL	n.a.
M162	BL	BL	BL	BL	BL
M163-2	BL	BL	BL	BL	d.(*1)
M164	BL	BL	BL	BL	d.(*1)
M165	BL	BL	BL	BL	d.(*1)
M166	BL	BL	BL	BL	BL
M167	BL	BL	BL	BL	BL
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	d.(*1)
M174	BL	BL	BL	BL	n.a.
M175	BL	BL	BL	BL	BL
M176	BL	BL	BL	BL	BL
M177	BL	BL	BL	BL	BL
M178	BL	BL	BL	BL	BL
M179	BL	BL	BL	BL	BL
M180	BL	BL	BL	BL	d.(*1)
M181	BL	BL	BL	BL	BL
M182	BL	BL	BL	BL	BL
M183	BL	BL	BL	BL	n.a.
M184	BL	BL	BL	BL	BL
M185	BL	BL	BL	BL	d.(*1)
M186	BL	BL	BL	BL	n.a.
M187	BL	BL	BL	BL	n.a.
M188	BL	BL	BL	BL	n.a.
M189	BL	d.(*1)	BL	BL	n.a.
M190	BL	BL	BL	BL	d.(*1)
M191	BL	BL	BL	BL	d.(*1)
M192	BL	BL	BL	BL	d.(*1)
M193	BL	d.(*1)	BL	BL	n.a.
M194	BL	BL	BL	BL	n.a.
M195	BL	BL	BL	BL	n.a.
M196	BL	BL	BL	BL	d.(*1)
M197	BL	BL	BL	BL	n.a.
M198	BL	BL	BL	BL	n.a.
M199	BL	BL	BL	BL	d.(*1)
M200	BL	BL	BL	BL	BL
M201	BL	BL	BL	BL	n.a.
M202	BL	BL	BL	BL	BL
M203	BL	BL	BL	BL	d.(*1)
M204	BL	BL	BL	BL	d.(*1)
M205	BL	BL	BL	BL	BL
M206	BL	BL	BL	BL	BL
M207	BL	BL	BL	BL	n.a.
M208	BL	BL	BL	BL	BL
M209	BL	BL	BL	BL	n.a.
M210	BL	BL	BL	BL	n.a.
M211	BL	d.(*1)	BL	BL	n.a.

M211	BL	d.(*1)	BL	BL	n.a.
M212	BL	d.(*1)	BL	BL	n.a.
M213	BL	BL	BL	BL	d.(*1)
M214	BL	BL	BL	BL	BL
M215	BL	d.(*1)	BL	BL	n.a.
M216	BL	BL	BL	BL	n.a.
M217	BL	BL	BL	BL	n.a.
M218	BL	BL	BL	BL	BL
M219	BL	BL	BL	BL	BL
M220	BL	d.(*1)	BL	BL	n.a.
M221	BL	BL	BL	BL	BL
M222	BL	BL	BL	BL	n.a.
M223	BL	BL	BL	BL	BL
M224	BL	BL	BL	BL	BL
M225	BL	BL	BL	BL	n.a.
M226	BL	BL	BL	BL	n.a.
M227	BL	BL	BL	BL	BL
M228	BL	BL	d.(*1)	BL	n.a.
M229	BL	BL	BL	BL	n.a.
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	n.a.
M235	BL	BL	BL	BL	d.(*1)
M236	BL	BL	BL	BL	n.a.
M237	BL	BL	BL	BL	d.(*1)
M238	BL	BL	BL	BL	BL
M239	BL	d.(*1)	BL	BL	n.a.
M240	BL	BL	d.(*1)	BL	n.a.
M241	BL	BL	BL	BL	BL
M242	BL	BL	BL	BL	d.(*1)
M243	BL	BL	BL	BL	d.(*1)
M244	BL	BL	BL	BL	BL
M245	BL	BL	BL	BL	BL
M246	BL	BL	BL	BL	d.(*1)
M247	BL	BL	BL	BL	n.a.
M248	BL	BL	BL	BL	d.(*1)
M249	BL	BL	BL	BL	d.(*1)
M250	BL	BL	d.(*1)	BL	BL
M251	BL	BL	BL	BL	BL
M252	BL	BL	BL	BL	BL
M253	BL	BL	BL	BL	BL

M254	BL	BL	BL	BL	d.(*1)
M255	BL	BL	BL	BL	BL
M256	BL	BL	BL	BL	d.(*1)
M257	BL	BL	BL	BL	n.a.
M258	BL	BL	BL	BL	n.a.
M259	BL	BL	BL	BL	n.a.
M260	BL	BL	BL	BL	n.a.
M261	BL	BL	BL	BL	n.a.
M262	BL	BL	BL	BL	d.(*1)
M263	BL	BL	BL	BL	BL
M264	BL	BL	BL	BL	n.a.
M265	BL	BL	BL	BL	BL
M266	BL	BL	BL	BL	BL
M267	BL	BL	BL	BL	d.(*1)
M268	BL	BL	BL	BL	d.(*1)
M269	BL	BL	BL	BL	n.a.
M270	BL	BL	BL	BL	BL
M271	BL	BL	BL	BL	BL
M272	BL	BL	BL	BL	d.(*1)
M273	BL	BL	BL	BL	BL
M274	BL	BL	BL	BL	d.(*1)
M275	BL	BL	BL	BL	n.a.
M276	BL	BL	BL	BL	BL
M277	BL	BL	BL	BL	n.a.
M278	BL	BL	BL	BL	BL
M279	BL	BL	BL	BL	n.a.
M280	BL	BL	BL	BL	n.a.
M281	BL	BL	BL	BL	BL
M282	BL	BL	BL	BL	BL
M283	BL	BL	BL	BL	BL
M284	BL	BL	BL	BL	n.a.
M285	BL	BL	BL	BL	BL
M286	BL	BL	BL	BL	BL
M287	BL	BL	d.(*1)	BL	BL
M288	BL	BL	BL	BL	BL
M289	BL	BL	BL	BL	BL
M290	BL	d.(*1)	BL	BL	n.a.
M291	BL	BL	BL	BL	BL
M292	BL	BL	BL	BL	n.a.
M293	BL	BL	BL	BL	BL
M294	BL	BL	BL	BL	BL
M295	BL	BL	BL	BL	n.a.
M296	BL	BL	BL	BL	BL

M297	BL	BL	BL	BL	BL
M298	BL	BL	BL	BL	BL
M299	BL	BL	BL	BL	BL
M300	BL	BL	BL	BL	BL
M301	BL	BL	BL	BL	n.a.
M302	BL	d.(*1)	BL	BL	n.a.
M303	BL	BL	BL	BL	BL
M304	BL	d.(*1)	d.(*1)	BL	BL
M305	BL	BL	BL	BL	n.a.
M306	BL	BL	BL	BL	d.(*1)
M307	BL	BL	BL	BL	BL
M308	BL	BL	BL	BL	BL
M309	BL	BL	d.(*1)	BL	BL
M310	BL	BL	BL	BL	BL
M311	BL	BL	BL	BL	n.a.
M312	BL	d.(*1)	BL	BL	n.a.
M313	BL	d.(*1)	BL	BL	n.a.

Abbreviation:

Pb	=	Lead
Cd	=	Cadmium
Hg	=	Mercury
Cr	=	Chromium
Br	=	Bromine
n.a.	=	Not appliable
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.

(*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.

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 Plastic or Electronic material - Ref. to IEC 62321-7-2:2017
- For Leather material - Ref. to EN ISO 17075-1:2017

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^	Pb	Hg	PBBs (*)	PBDEs (*)
	RL (%)					
	0.001	0.001	0.001	0.001	0.01	0.01
M005	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M016	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M018	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M019	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M032	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M037-1	n.a.	n.a.	2.82(*4)	n.a.	n.a.	n.a.
M098	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M101	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M125	0.0086	n.a.	2.70(*4)	n.a.	n.a.	n.a.
M126	n.a.	n.a.	2.96(*4)	n.a.	n.a.	n.a.
M127	n.a.	n.a.	1.80(*4)	n.a.	n.a.	n.a.
M147	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M148	n.a.	n.a.	2.48(*4)	n.a.	n.a.	n.a.
M161	n.a.	n.a.	1.76(*4)	n.a.	n.a.	n.a.
M163-2	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M164	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M165	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M173	n.a.	n.a.	n.a.	n.a.	< RL	< RL

M180	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M185	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M190	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M191	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M192	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M196	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M199	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M203	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M204	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M213	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M228	n.a.	n.a.	3.22(*4)	n.a.	n.a.	n.a.
M233	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M235	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M237	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M240	n.a.	n.a.	3.08(*4)	n.a.	n.a.	n.a.
M242	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M243	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M246	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M248	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M249	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M250	n.a.	n.a.	3.46(*5)	n.a.	n.a.	n.a.
M254	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M256	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M262	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M267	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M268	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M272	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M274	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M287	n.a.	n.a.	0.584(*5)	n.a.	n.a.	n.a.
M304	n.a.	n.a.	1.09(*5)	n.a.	n.a.	n.a.
M306	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M309	n.a.	n.a.	< RL	n.a.	n.a.	n.a.

Material No.	Hexavalent Chromium Content (µg/cm²) (*1) RL: 0.10 µg/cm²
M012	negative
M025	negative
M027	negative
M028	negative
M034	negative
M039	negative
M040	negative
M189	negative
M193	negative
M211	negative
M212	negative
M215	negative
M220	negative
M239	negative
M290	negative
M302	negative
M312	negative
M313	negative

Material No.	Hexavalent Chromium Content (%) (*2) RL: 0.01%
M304	< 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

Remark:

(*) The reporting limit for each individual PBBs and individual PBDEs are :

Reporting Limit (%)		
PBBs	Bromobiphenyl	0.01
	Dibromobiphenyl	0.01
	Tribromobiphenyl	0.01
	Tetrabromobiphenyl	0.01
	Pentabromobiphenyl	0.01
	Hexabromobiphenyl	0.01
	Heptabromobiphenly	0.01
	Octabromobiphenyl	0.01
	Nonabromobiphenyl	0.01
	Decabromobiphenyl	0.01
PBDEs	Bromodiphenylether	0.01
	Dibromodiphenyl ether	0.01
	Tribromodiphenyl ether	0.01
	Tetrabromodiphenyl ether	0.01
	Pentabromodiphenyl ether	0.01
	Hexabromodiphenyl ether	0.01
	Heptabromodiphenyl ether	0.01
	Octabromodiphenyl ether	0.01
	Nonabromodiphenyl ether	0.01
	Decabromodiphenyl ether	0.01

(*1) The total chromium content in Metal sample was found to be exceeded the maximum permissible limit (0.1%). Thus, the Chromium (VI) content in surface layer have been confirmed with reference to IEC 62321-7-1:2015 Annex.

	Chromium (VI) concentration	Qualitative result
Negative	<0.1μg/cm²	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	≥0.1μg/cm² and ≤0.13 μg/cm²	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 μg/cm²	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 The total chromium content in plastic sample or electronic sample was found to be exceeded the maximum permissible limit (0.1%).Thus, the Chromium (VI) content have been confirmed with reference to IEC 62321-7-2:2017

*4 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.: M037-1, M125, M126, M127, M148, M161, M228, M240, M318.

*5 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.: M250, M287, M304.

BBP, DBP, DEHP, DIBP content

Test Method: 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.	(%)			
		BBP	DBP	DEHP	DIBP
		RL (%)			
		0.005	0.005	0.005	0.005
T001	M001 + M159	< RL	< RL	< RL	< RL
T002	M003 + M041 + M043	< RL	< RL	< RL	< RL
T003	M004 + M005 + M007	< RL	< RL	< RL	< RL
T004	M006 + M158	< RL	< RL	< RL	< RL
T005	M011 + M016 + M069	< RL	< RL	< RL	< RL
T006	M015 + M017 + M018	< RL	< RL	< RL	< RL
T007	M019 + M070 + M143	< RL	< RL	< RL	< RL
T008	M021 + M047 + M048	< RL	< RL	< RL	< RL
T009	M023 + M024 + M029	< RL	< RL	< RL	< RL
T010	M026 + M030 + M032	< RL	< RL	< RL	< RL
T011	M036 + M038 + M042	< RL	< RL	< RL	< RL
T012	M046 + M053 + M056	< RL	< RL	< RL	< RL
T013	M049 + M051 + M129	< RL	< RL	< RL	< RL
T014	M057 + M058 + M059	< RL	< RL	< RL	< RL
T015	M060 + M061 + M062	< RL	< RL	< RL	< RL
T016	M063 + M064 + M130	< RL	< RL	< RL	< RL
T017	M067 + M068 + M076	< RL	< RL	< RL	< RL
T018	M072 + M075 + M091	< RL	< RL	< RL	< RL
T019	M073 + M074 + M077	< RL	< RL	0.007	< RL
T020	M078 + M079 + M080	< RL	< RL	< RL	< RL
T021	M081 + M082 + M083	< RL	< RL	< RL	< RL

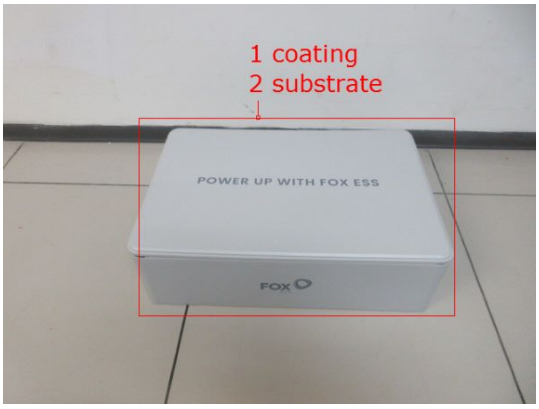
T022	M085 + M086 + M087	< RL	< RL	< RL	< RL
T023	M088 + M089 + M110	< RL	< RL	< RL	< RL
T024	M092 + M093 + M094	< RL	< RL	< RL	< RL
T025	M096 + M097 + M111	< RL	0.029	< RL	< RL
T026	M098 + M101 + M102	< RL	< RL	< RL	< RL
T027	M103 + M104 + M106	< RL	< RL	< RL	< RL
T028	M105 + M108 + M120	< RL	< RL	< RL	< RL
T029	M107 + M156 + M227	< RL	< RL	< RL	< RL
T031	M112 + M113 + M114	< RL	< RL	< RL	< RL
T032	M115 + M116 + M117	< RL	< RL	< RL	< RL
T034	M122 + M123 + M124	< RL	< RL	< RL	< RL
T035	M131 + M132 + M133	< RL	< RL	< RL	< RL
T036	M134 + M135 + M136	< RL	< RL	< RL	< RL
T037	M137 + M181 + M182	< RL	< RL	< RL	< RL
T038	M140 + M142 + M147	< RL	< RL	< RL	< RL
T039	M150 + M151 + M154	< RL	< RL	< RL	< RL
T041	M157 + M160 + M162	< RL	< RL	< RL	< RL
T042	M164 + M165 + M170	< RL	< RL	< RL	< RL
T043	M166 + M167 + M172	< RL	< RL	< RL	< RL
T044	M168 + M169 + M265	< RL	< RL	< RL	< RL
T045	M171 + M173 + M180	< RL	< RL	< RL	< RL
T046	M175 + M177 + M184	< RL	< RL	< RL	< RL
T047	M185 + M192 + M199	< RL	< RL	< RL	< RL
T048	M190 + M191 + M196	< RL	< RL	< RL	< RL
T049	M203 + M204 + M205	< RL	< RL	< RL	< RL
T050	M206 + M208 + M213	< RL	< RL	< RL	< RL
T051	M214 + M218 + M221	< RL	< RL	< RL	< RL
T052	M219 + M238 + M241	< RL	< RL	< RL	< RL
T053	M231 + M242 + M243	< RL	< RL	< RL	< RL

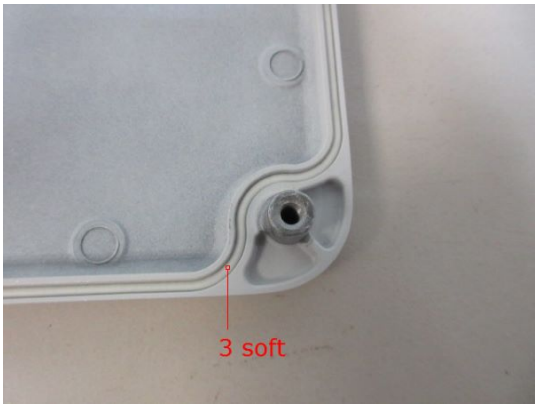
T054	M233 + M235 + M237	< RL	< RL	< RL	< RL
T055	M248 + M254 + M306	< RL	< RL	< RL	< RL
T056	M253 + M256 + M262	< RL	< RL	< RL	< RL
T057	M263 + M268 + M291	< RL	< RL	< RL	< RL
T058	M272 + M296 + M297	< RL	< RL	< RL	< RL
T059	M274 + M276 + M278	< RL	< RL	< RL	< RL
T060	M298 + M299 + M300	< RL	< RL	< RL	< RL
T061	M244 + M245 + M246	< RL	< RL	< RL	< RL
T062	M223 + M224 + M267	< RL	< RL	< RL	< RL
T063	M270 + M285 + M293	< RL	< RL	< RL	< RL
T065	M045 + M050	< RL	< RL	< RL	< RL
T066	M153 + M200 + M202	< RL	< RL	< RL	< RL
T067	M109	< RL	< RL	0.011	< RL
T069	M121	< RL	< RL	0.022	< RL
T071	M178	< RL	< RL	< RL	< RL
T072	M179	< RL	< RL	< RL	< RL
T073	M141	< RL	< RL	< RL	< RL
T074	M152	< RL	< RL	< RL	< RL
T077	M009	< RL	< RL	0.052	< RL
T078	M294	< RL	< RL	< RL	< RL
T080	M118-1	< RL	< RL	< RL	0.006
T082	M008-1	< RL	< RL	< RL	< RL
T084	M163-2	< RL	< RL	< RL	< RL

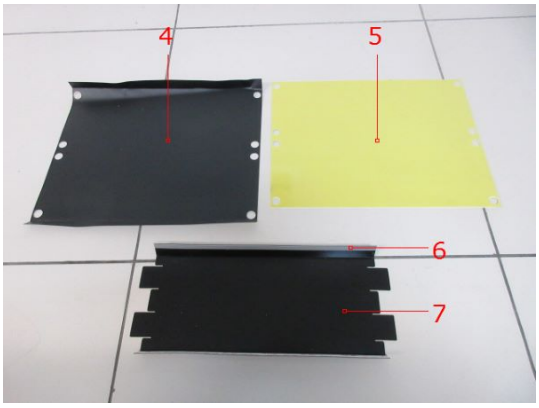
Abbreviation:

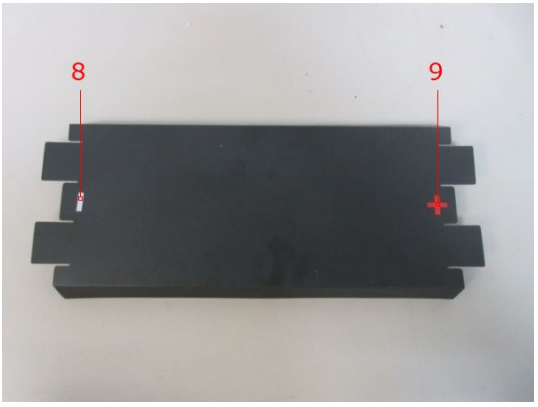
BBP= Benzylbutyl phthalate
DBP= Dibutyl phthalate
DEHP= Bis(2-ethylhexyl) phthalate
DIBP= Diisobutyl phthalate
< = less than
RL = Reporting Limit
N.A. = Not Applicable
%= percentage

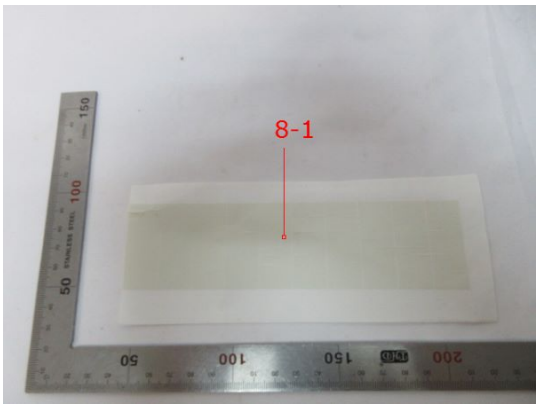
Sample Photos

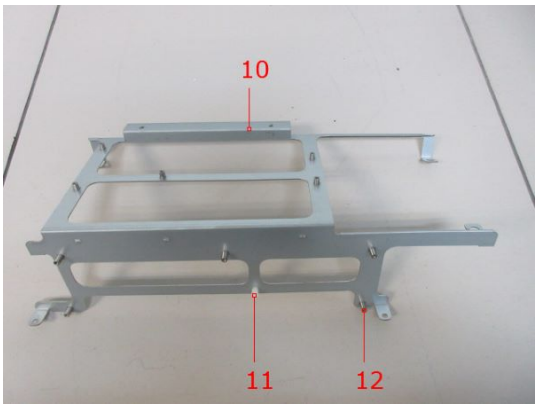












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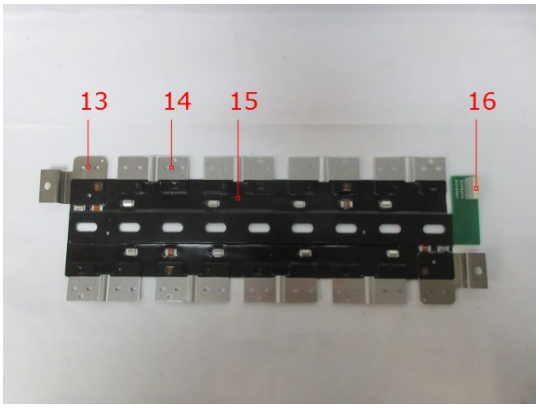

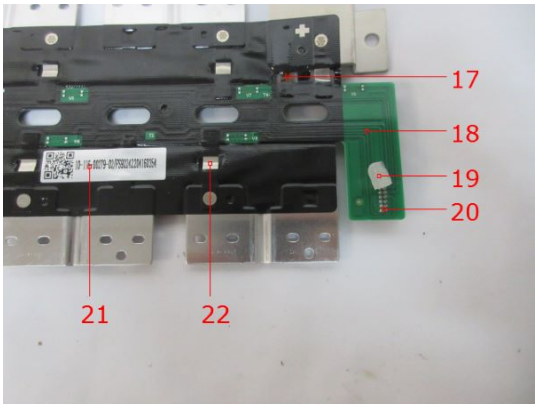

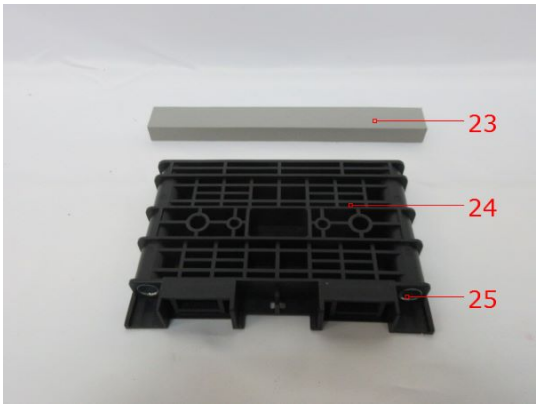

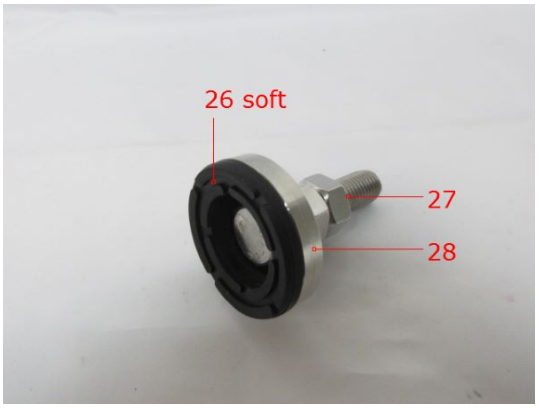

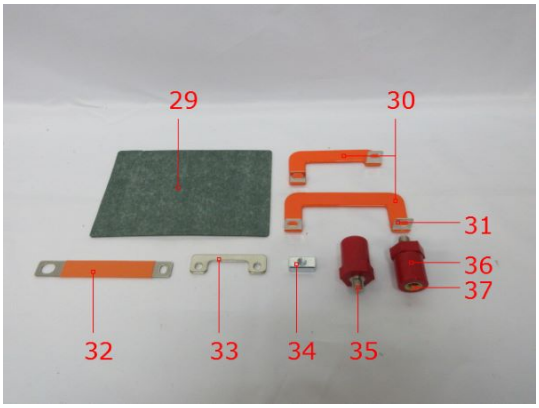

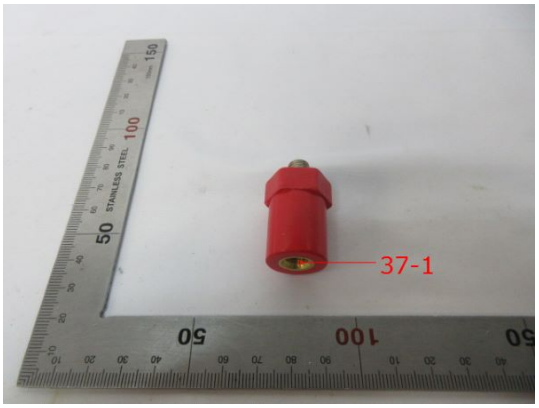

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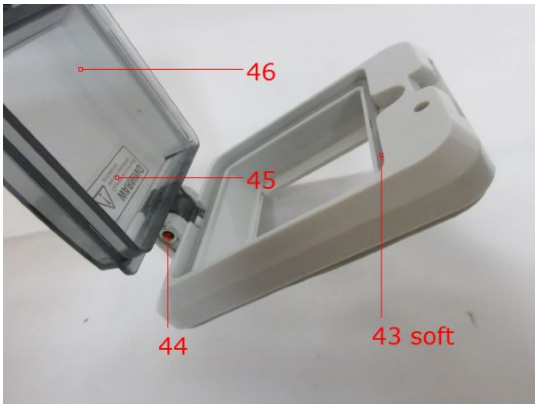

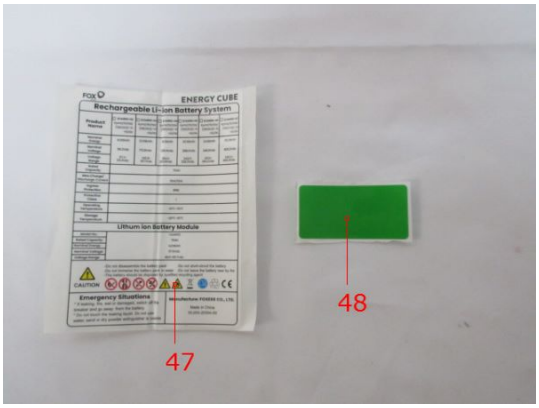

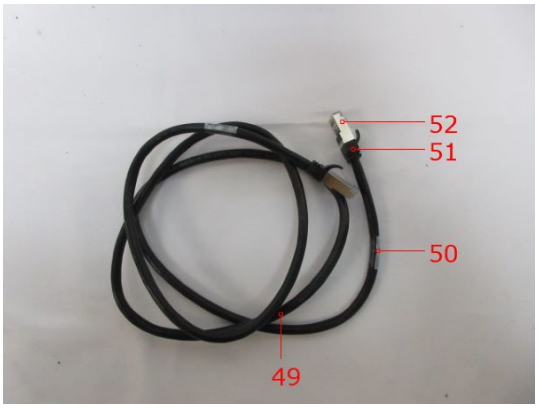

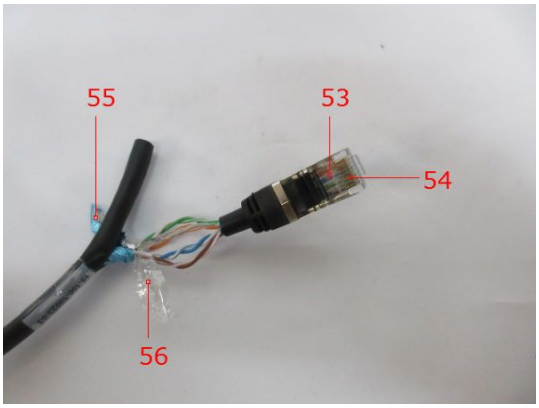

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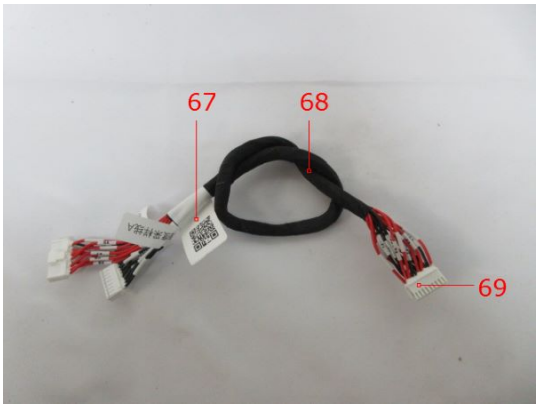

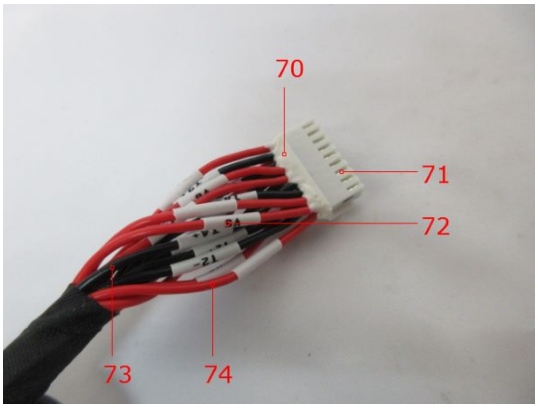

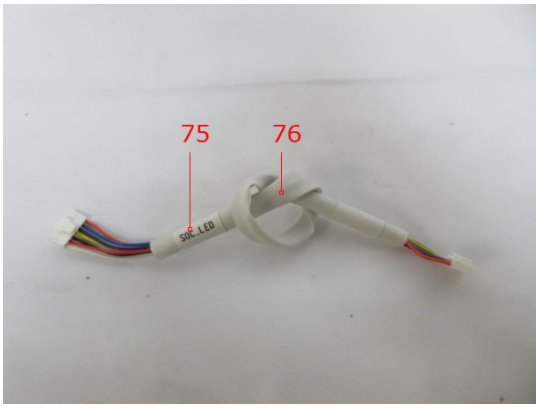

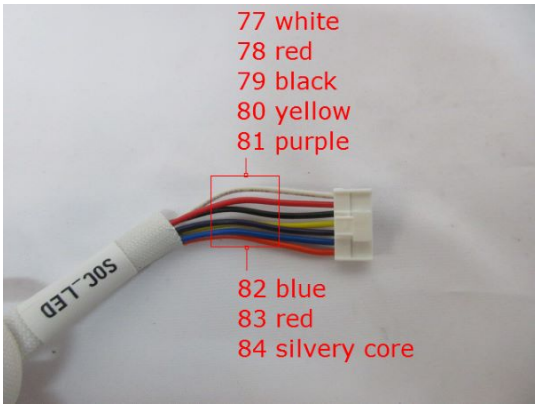

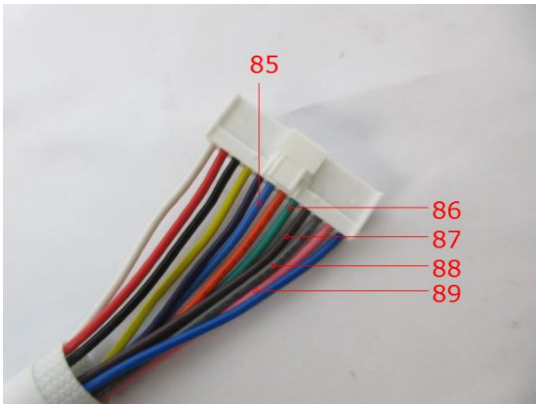

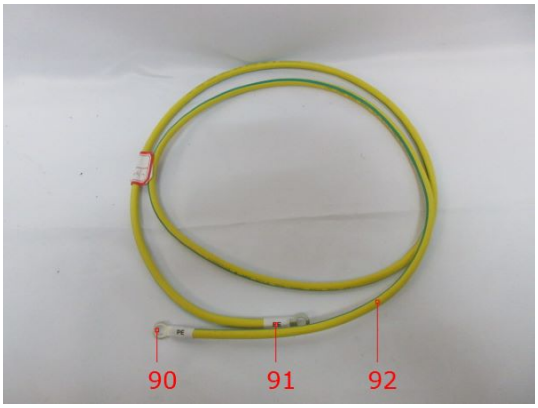

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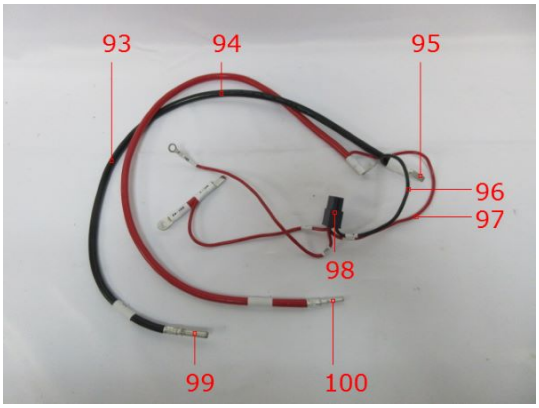

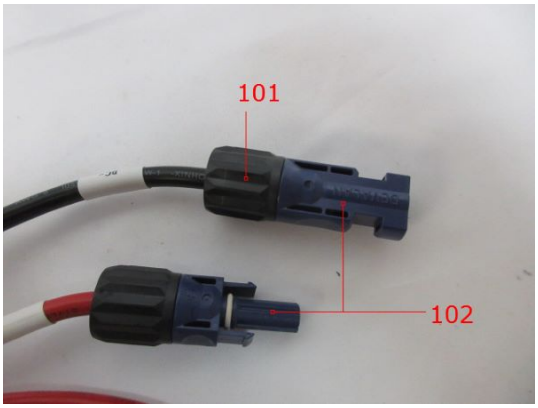

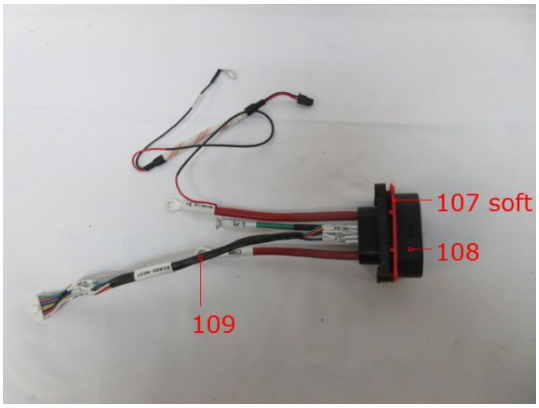

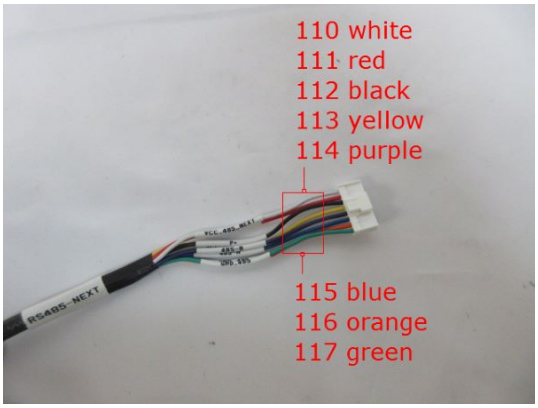

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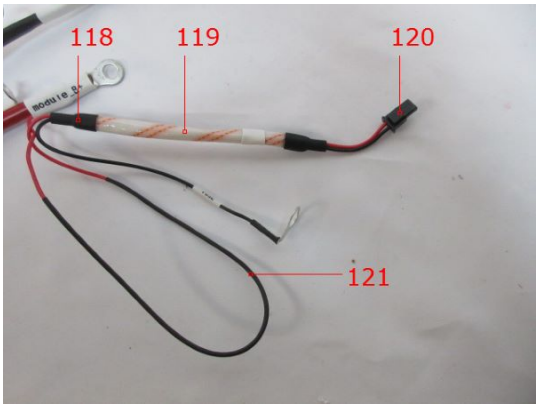

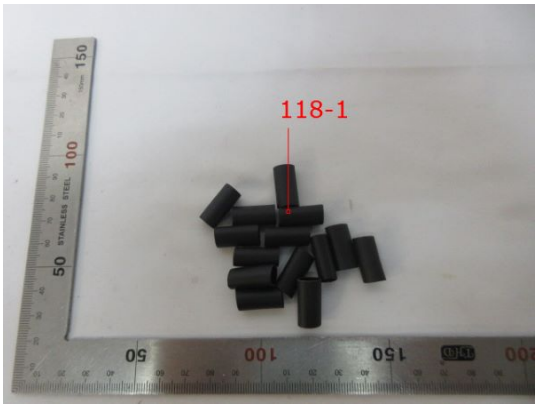

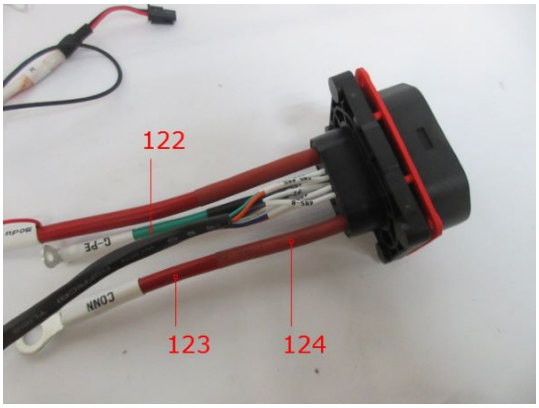

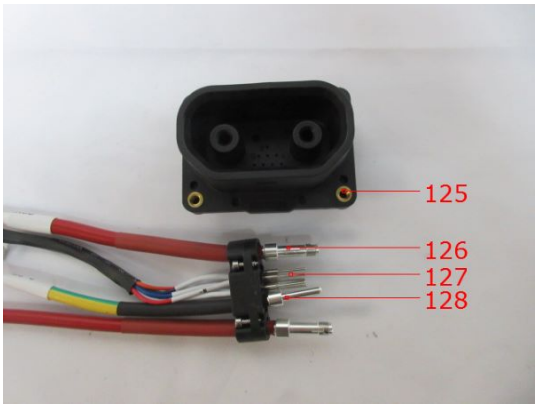

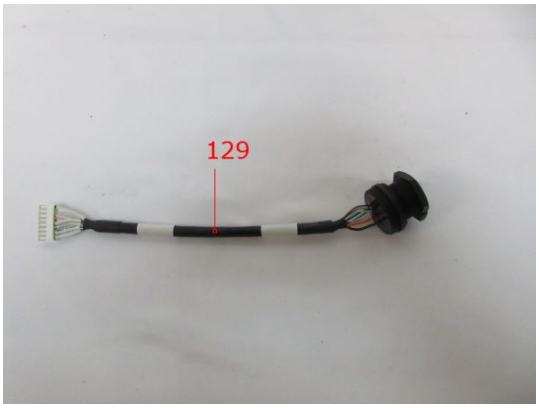

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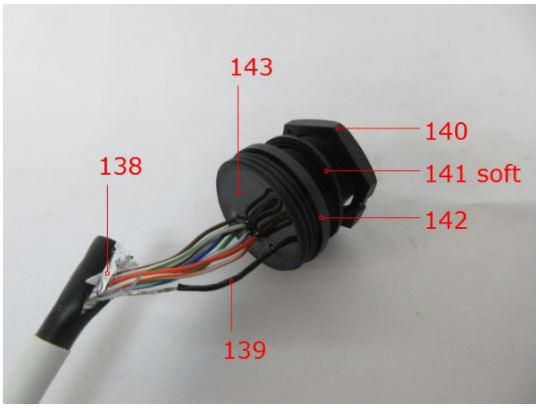

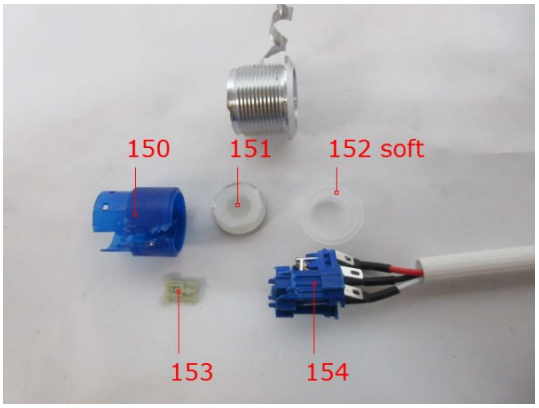

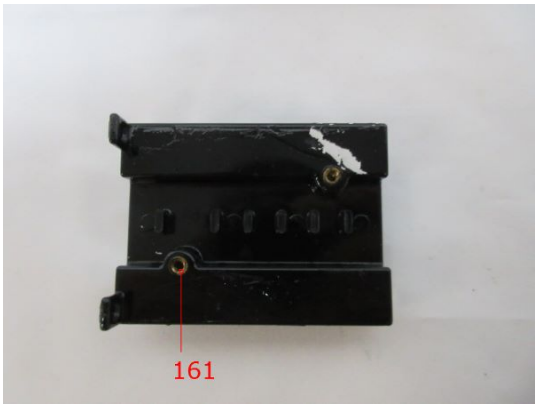

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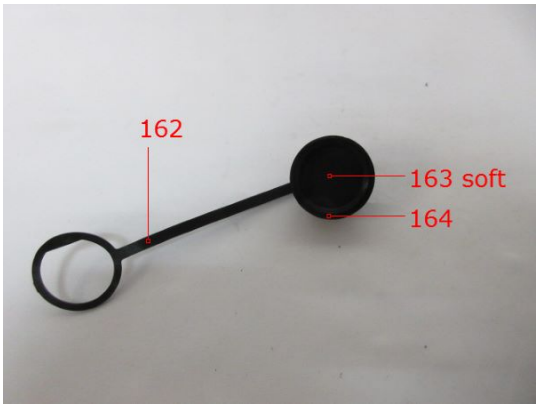

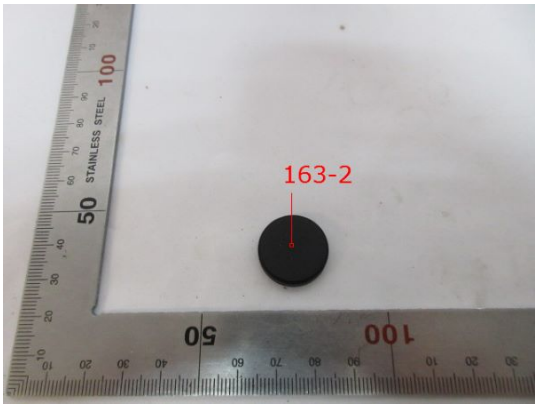

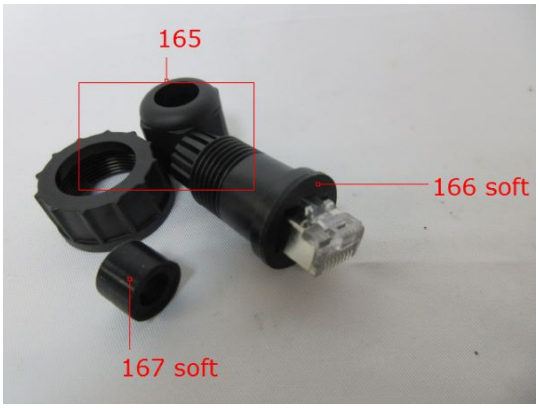

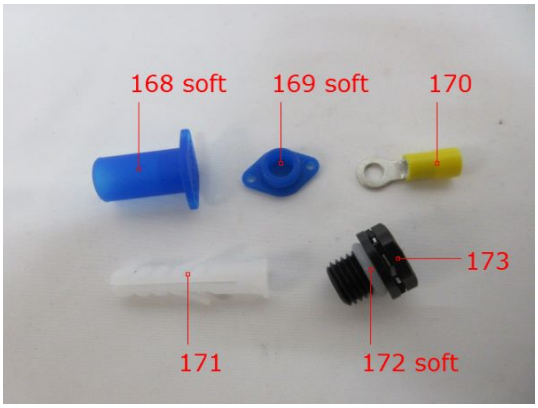

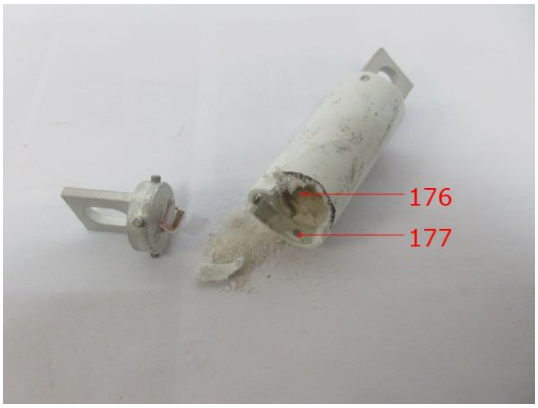

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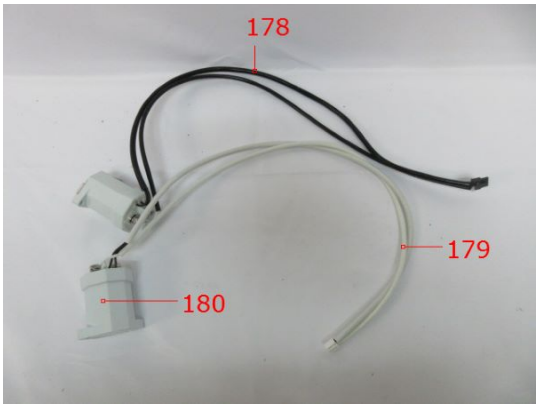

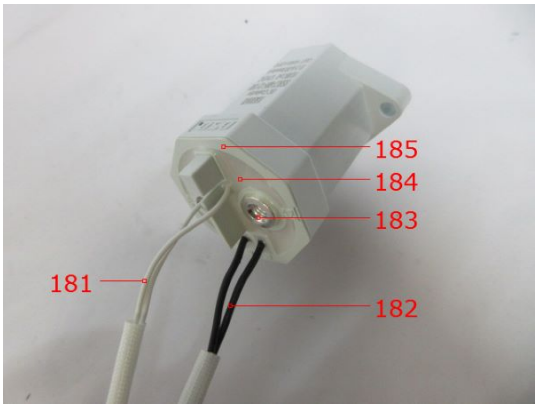

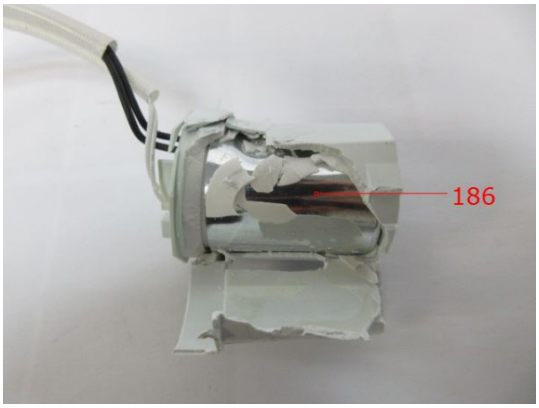

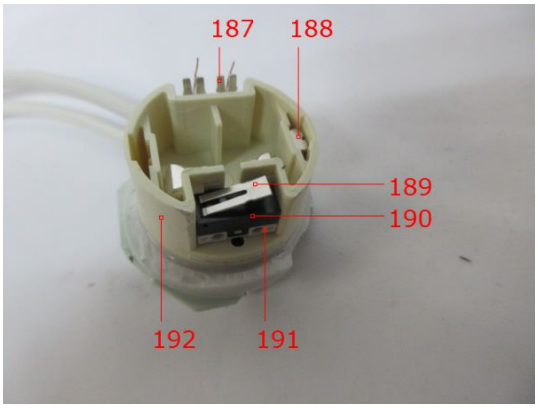

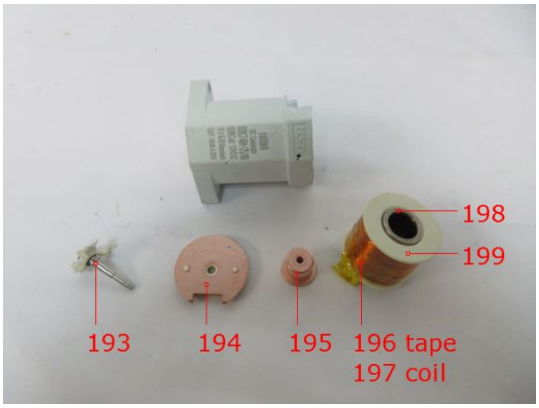

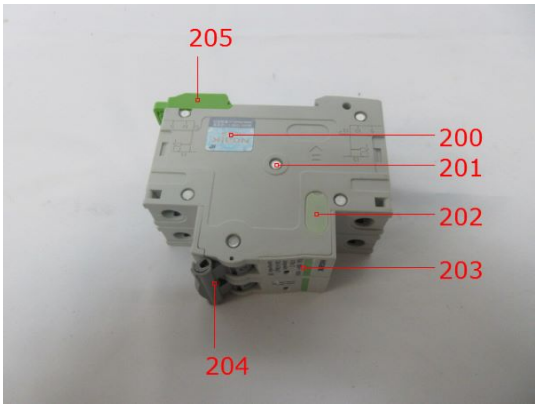

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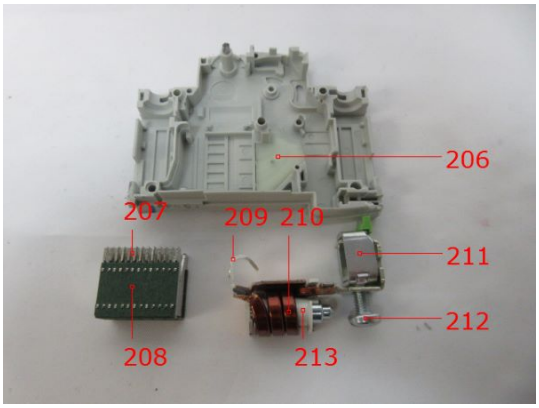

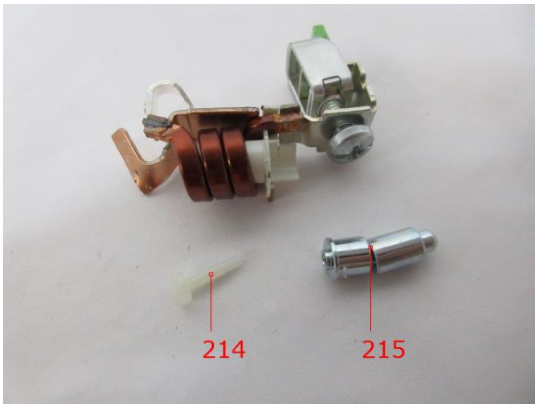

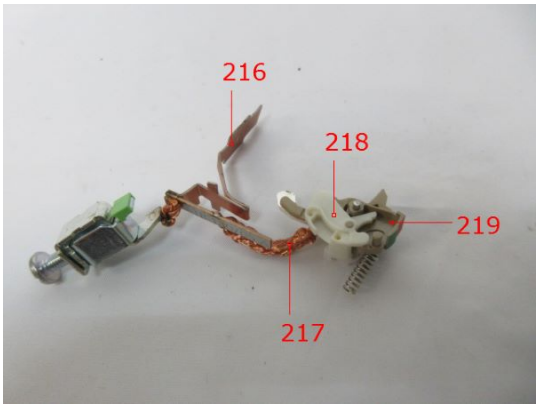

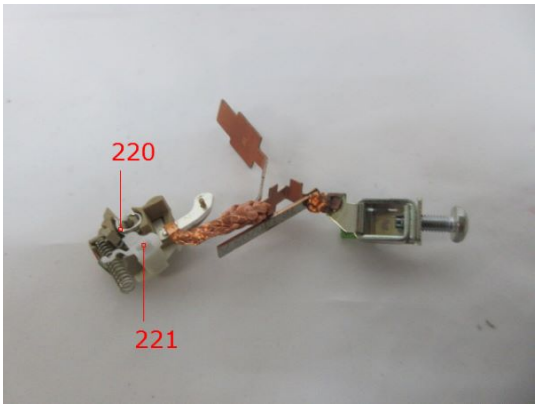

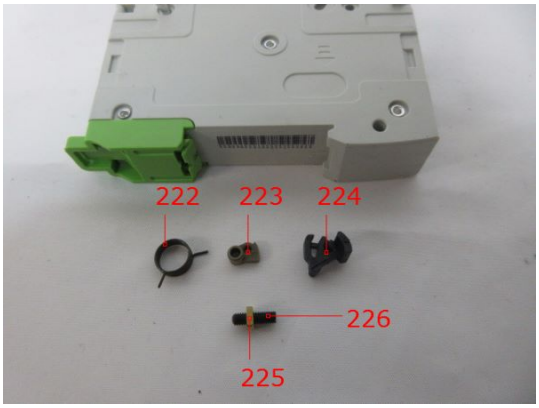

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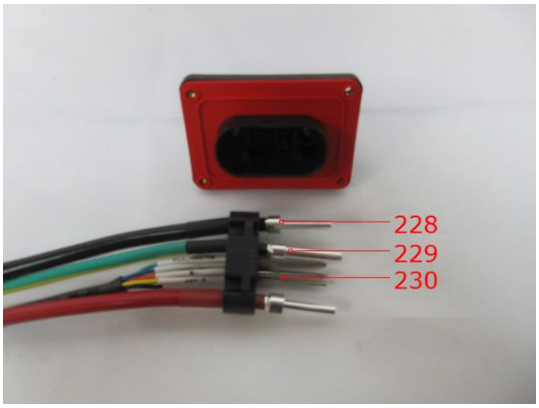

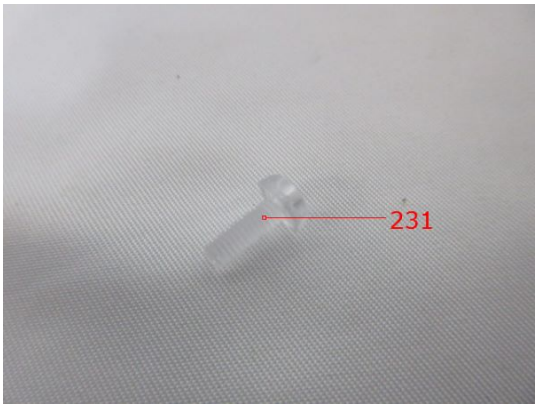

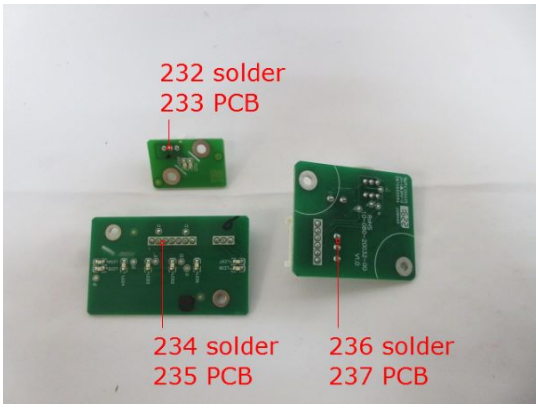

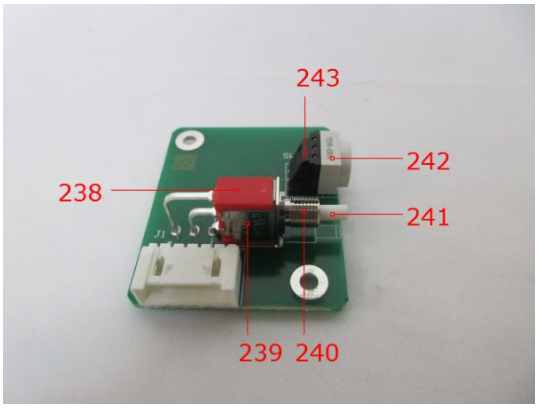

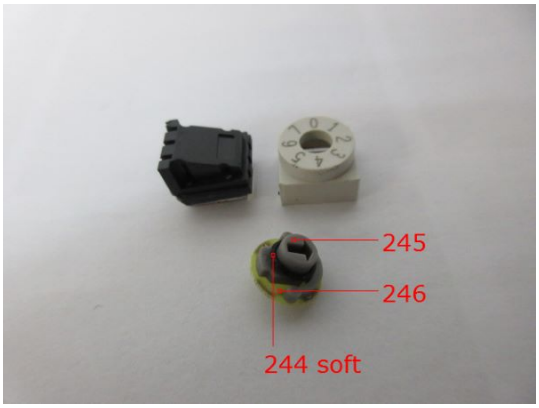

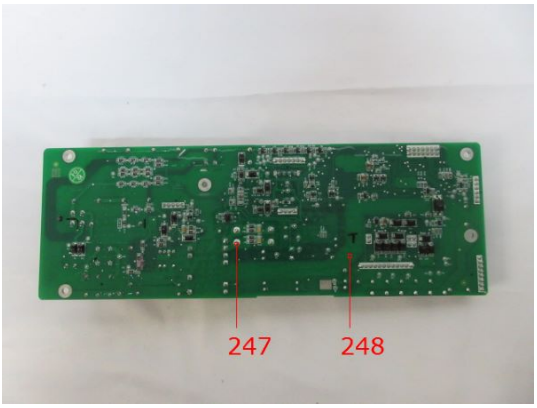

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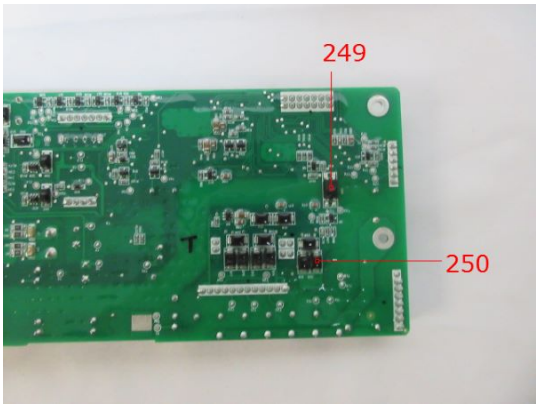

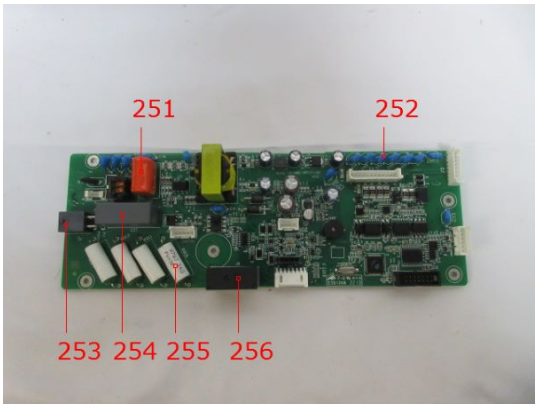

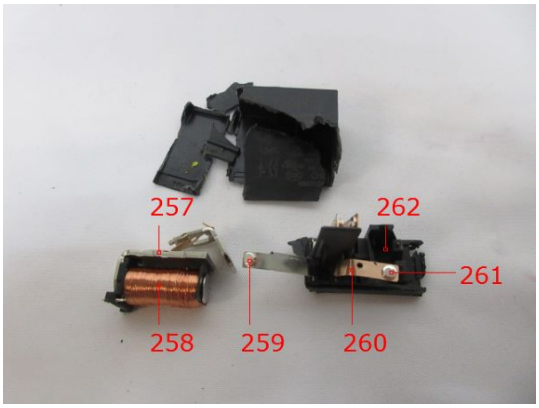

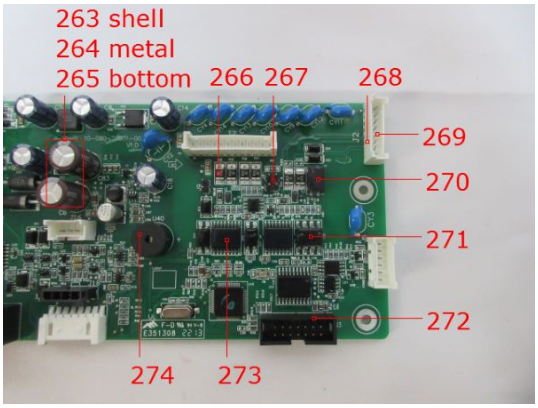

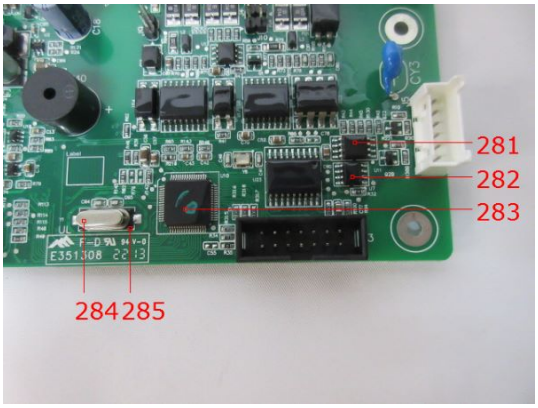

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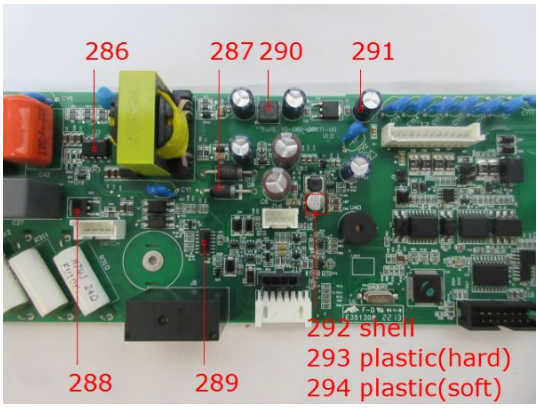
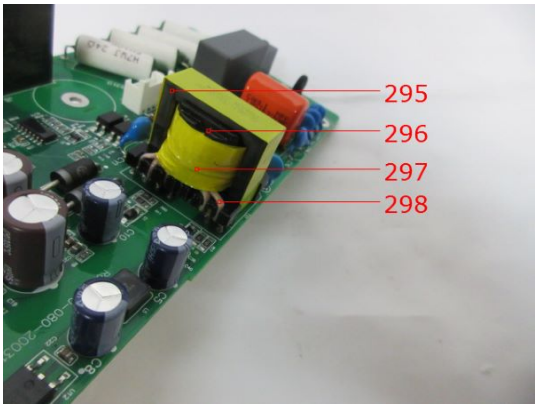
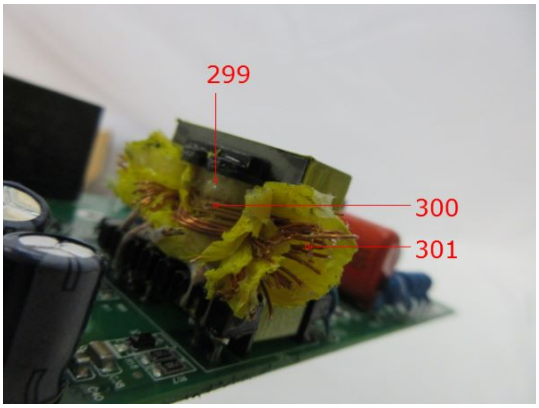
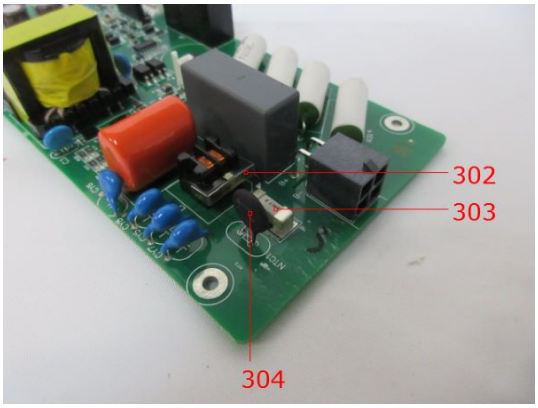
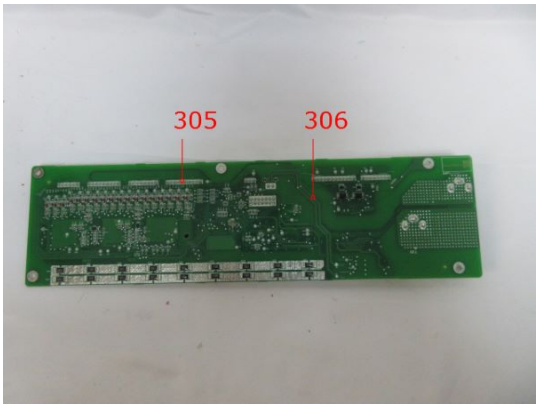
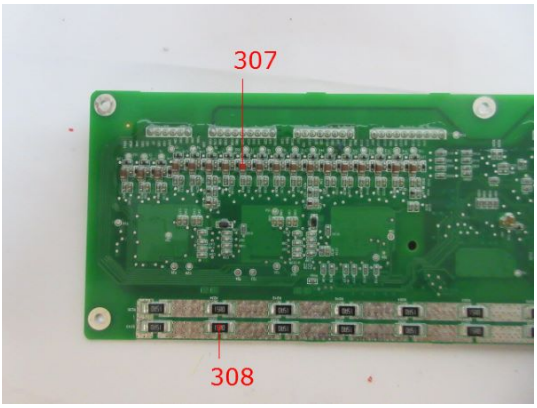




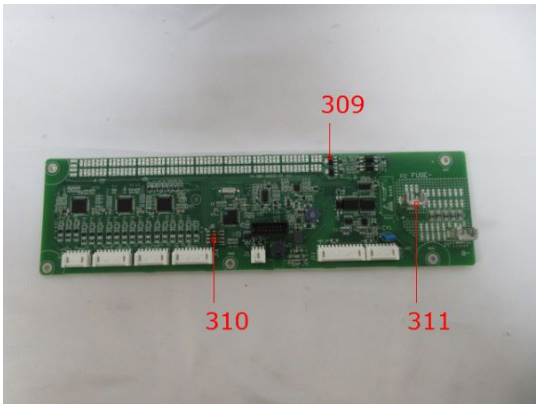








Sample Photos



Product (Provided by client)

- END -

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 ("GTCB") is made between the client and one or more member entities of TÜV Rheinland in Greater China as applicable as the case may be ("TÜV Rheinland"). The Greater China hereof refers to Mainland China, Hong Kong and Taiwan.The client hereof includes:

(i) a natural person capable to form legally binding contracts under the applicable laws who concludes the contract not for the purpose of a 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 GTCB 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 works 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 for in the contract unless terminated in writing by either party 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 correctness and functionality 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 and its upstream and/or downstream processes, organisations, 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, nor for their use and application in accordance 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.

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.) is 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 that in order to perform the contract with TÜV Rheinland, the client may need to sign one or more contracts/ agreements with a/more third party(ies) and establish legal relationships with that/those third party(ies) according to such contracts/agreements. TÜV Rheinland will merely bears 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 certification services to be provided by third testing and certification bodies), 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 can also sub-entrust to a third party to provide agency services, but TÜV Rheinland shall not bear any responsibility and/or risk for agency 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 third testing and/or certification bodies, agency services provided by any other third agent(s), 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 conduct any annual review/surveillance of the relevant testing and/or certification service results 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 perform the obligation of such annual review/surveillance and pay the corresponding fees. If the client fails to perform such obligations of the annual review/surveillance or fees payment, it may lead to adverse consequences such as failure/ suspending/cancellation/invalidity of testing and/or certification results, which shall not be borne/liable by TÜV Rheinland.

4.9 For the service content 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 responsibilities or risks 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 periods/dates

5.1 The contractually agreed periods/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 also apply, even without express approval by the client, to all extensions of agreed periods/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 duties to cooperate in accordance with clause 6.1 or has not done 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 accreditor prescribed deadlines, it is the client's responsibility to agree on performance dates with TÜV Rheinland, 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 illegal 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 made in accordance with the price list of TÜV Rheinland valid at the time of performance.

7.2 Unless otherwise agreed, work shall be invoiced according to the progress of the work.

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 loan 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 remains under 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 changed 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 setoff any amount due or payable by the client, including but not limited to setoff against any fees paid by the client under any contracts, agreement and/or orders/quotations 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 fundmental 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-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 cancels or postpones a confirmed audit date within two (2) weeks before the agreed date, TÜV Rheinland is 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 the client has undertaken in the contract to accept services, TÜV Rheinland shall also be entitled to charge lump-sum damages in the amount of 10% of the order amount as 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 materials, tangible or intangible, that are supplied, transferred or otherwise disclosed by one Party (the "disclosing party") to the other Party (the "receiving party"), in writing or orally, in printed or electronic format. Confidential information is expressly not the data and know-how collected, compiled or otherwise obtained by TÜV Rheinland (non-personal 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 fails to do so within the stipulated 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 TÜV Rheinland. Instead, 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 leakages to be caused by the adoption of any unauthorized confidential information sharing 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 work by TÜV Rheinland:

a) 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;

b) 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, judicial court, accreditation bodies or third parties that are involved in the performance of the contract;

c) must be treated by the receiving party with the same level of confidentiality as the receiving party uses to protect its own confidential information, but never with a lesser level of confidentiality than that which is reasonably required.

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 undertakes to oblige these 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 violation of this confidentiality clause by the receiving party; or

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/or (ii) on request by the disclosing party, to destroy all confidential information including all copies, and confirm the destruction of this 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 extend to include reports and certificates prepared for the client solely for the purpose of 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 evidence the correctness of its results and for 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, calculations, presentations etc. prepared by TÜV Rheinland, unless otherwise 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 client receives 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, presentations 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 GTCB is subject to full payment of the remuneration agreed in favour of TÜV Rheinland.

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 regulaed in clause 11.2, and any quotaion of the introduction of TÜV Rheinland need 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 withdraw publications.

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 test/certification 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 annually recurring services, the agreed annual fee; (iii) in the case of a contract 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 2.5 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 2.5 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, physical 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 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 its services under the contract, unless such personnel made available is 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 to the client.

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 law.

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 shall be 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 to be disclosed or transferred to any third party or any overseas party outside of the district in which the personal data was collected, the client also confirms 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 access, 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 If reference samples or documentations are given to the client to be placed in storage at their premises, the reference samples or documentations 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 available the reference samples and/or documentation, 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 10 (ten) years after the expiry of the test mark certificates or shall meet the applicable legal requirements for EU/EC certificates of conformity and GS mark certificates.

15.5 The costs of the handover 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 3.3 of the GTCB, 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 TÜV Rheinland is prevented from performing the services due to a loss or a suspension of its accreditation or notification.

16.2 For good causes, TÜV Rheinland may consider giving a written notice to the client to terminate the contract which includes but not limited to the following:

a) the client does not immediately notify TÜV Rheinland of changes in the conditions within 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, for reasons beyond its control, is temporarily or finally not able or entitled 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.

16.3 In 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 as lump-sum compensation. The client reserves the right to prove that 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 TÜV Rheinland is also entitled to terminate 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 foreseen at the time of the conclusion of the contract; and (c) 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 fulfil 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 revolution, military or usurped power, insurrection, act of terrorism, sabotage or piracy; (iii) currency and trade restriction, embargo, sanction; (iv) act of authority whether lawful or unlawful, compliance with any law or governmental order, expropriation, seizure of works, requisition, nationalization; (v) plague, epidemic, natural disaster or extreme natural event; (vi) explosion, fire, destruction of equipment, prolonged break-down of transport, telecommunication, information system or energy; (vii) general labor disturbance such as boycott, strike and lock-out, go-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, from the time at which the impediment causes inability 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 event invoked is temporary, the above consequences shall apply only as long as the impediment invoked impedes performance by the affected Party. Where the duration of the impediment invoked 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 that

(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 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 17.1.

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 chosen following the rules as below:

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 laws 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.

Unless otherwise stipulated in the contract, if no settlement 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, Taipei to be arbitrated in accordance with its then current Rules of Arbitration. The arbitration shall take place in Taipei.

c) in the case of TÜV Rheinland being legally registered and existing in Hong Kong, to Hong Kong International Arbitration Centre (HKIAC) to be settled by arbitration under the HKIAC 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.

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