

Issuing laboratory:

Toys and Hardlines Division of Intertek Testing Services Hong Kong Ltd.
This laboratory is accredited by the China National Accreditation Services(CNAS) for specific tests and /or measurements and the result shown in this report have been determined in accordance with the laboratory's terms of accreditation.



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CNAS L3256

发布实验室:

本获准认可实验室获得中国合格评定国家认可委员会(CNAS) 正式承认特定的测试和测量范围, 并依照获准认可实验室的条款, 测定本报告显示的结果。

TEST REPORT

Applicant: SHANTOU CITY CHENGHAI DISTRICT ZE CONG
PLASTIC TOYS FACTORY
SOUTH SIDE OF DENG FENG ROAD
GUANG YI STREET CHENGHAI DISTRICT
SHANTOU CITY GUANGDONG PROVINCE
CHINA 515800

Number: HKGH02574484 S4

Date: Sep 08, 2020

*This is to supersede Report No.
HKGH02574484 S3 dated Sep 08, 2020
due to information update*

Submitted sample said to be :

Item Name :

Item No. :

Soft Bullet Gun Series.
7001, 7002, 7003, 7004, 7005, 7006, 7007, 7009, 7010, 7011, 7019,
7020, 7021, 7022, 7023, 7024, 7025, 7026, 7029, 7032, 7033, 7035,
7036, 7036A, 7037, 7038, 7039, 7050, 7051, 7052, 7053, 7054,
7055, 7056, 7057, 7058, 7059, 7060, 7061, 7062, 7063, 7065, 7066,
7067, 7068, 7069, ZC7071, ZC7072, ZC7073, ZC7075, ZC7076,
ZC7077, ZC7078, ZC7079, ZC7080, ZC7081, ZC7082, ZC7083,
ZC7086, ZC7087, ZC7088, ZC7089, ZC7090, ZC7091, ZC7092,
ZC7093, ZC7095, ZC7096, ZC7097, ZC7098, ZC7099, ZC7100,
ZC7101, ZC7102, ZC7103, ZC7104, ZC7105, ZC7106, ZC7107,
ZC7108, ZC7109, ZC7110, ZC7111, ZC7112, ZC7113, ZC7114,
ZC7115, ZC7116, ZC7117, ZC7118, ZC7119, ZC7120, ZC7121,
ZC7122, 01*20, 02*20, 03*40, ZC04, ZC05, ZC06, ZC08, ZC09,
ZC10, ZC11.

Labelled Age Group :

Packaging Provided :

Quantity :

Country of Origin :

Ages 6+, Ages 8+

Yes.

2 Sets.

China.

Prepared and checked by:

For Intertek Testing Services HK Ltd.

Wong, Chun Man Francis
Senior Manager
CNAS Approved Signatory

Eric Y.O. Tam
Senior Manager
CNAS Approved Signatory



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Number : HKGH02574484 S4

Conclusion:

The submitted sample was tested under the following requirements requested by the applicant, subject to the information stated in the remark and attached page(s) for details :

Requirement	Result
(1) EN71-1: 2014 + A1: 2018 - Mechanical and Physical Properties	Pass
(2) EN71-2 : 2011 + A1 : 2014 - Flammability Test	Pass
(3) EN 71-3:2019 - Migration of certain elements	Pass



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(1) Physical and Mechanical Tests

Test Standard : European Standard on Safety of Toys EN71-1:2014 + A1: 2018

Age group for testing :

1) For ages over 6 years

For items: ZC7078, ZC7082, ZC7081, ZC7072, ZC7080, ZC7075, ZC7077, ZC7079, ZC7083, ZC7076, 7051, 7037, 7039, 7050, 7063, 7036, 7061, 7060, 7058, 7038, 7067, 7069, 7053, 7055, 7057, 7062, 7021, 7023, 7033, 7020, 7019, 7054, 7002, 7024, 7022, 7032, 7005, 7001, 7004, 7006, 7011, 7056, 7068, 7059, 7065 and 7066.

2) For ages over 8 years

For items: 7007, ZC7095, ZC7114, ZC7098, ZC7058, ZC7102, ZC7093, ZC7108, ZC7103, ZC7073, ZC7105, ZC7113, ZC7086, ZC7099, ZC7110, ZC7115, ZC7106, ZC7118, ZC7111, ZC7100, ZC7107, ZC7092, ZC7097, ZC7101, ZC7104, 7035, ZC7087, ZC7088, ZC7089, ZC7090, ZC7091, ZC7117, ZC7096, ZC7109, ZC7116, ZC7112 and ZC7122

The submitted samples were undergone the following abuse tests:	
Clause	Testing Items
8.3	Torque test (0.34 Nm)
8.4.2.1	Tension test (90 N)
8.4.2.5	Wall impact test for projectiles (3 times)
8.5	Drop Test (850 mm x 5)
8.7	Impact test (1 kg)

Clause	Requirement	Assessment
4	General requirements	
4.1	Material cleanliness	P
4.2	Assembly	NA
4.3	Flexible plastic sheeting	NA
4.4	Toy bags	NA
4.5	Glass	NA
4.6	Expanding Materials	NA
4.7	Edges	P
4.8	Points and Metallic wires	P
4.9	Protruding parts	NA
4.10	Parts moving against each other	P
4.11	Mouth actuated toys and other toys intended to be put into mouth	NA
4.12	Balloons	NA



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Clause	Requirement	Assessment
4.13	Cords of toy kites and other flying toys	NA
4.14	Enclosures	NA
4.15	Toys intended to bear the mass of a child	NA
4.16	Heavy immobile toys	NA
4.17	Projectiles	P
4.18	Aquatic toys and inflatable toys	NA
4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	NA
4.20	Acoustics	NA
4.21	Toys containing non -electrical heat source	NA
4.22	Small balls	P
4.23	Magnets	NA
4.24	Yo-yo balls	NA
4.25	Toys attached to food	NA
4.26	Toy Disguise Costumes	NA
4.27	Flying toys	NA
5	Toys intended for children under 36 months	
5.1	General requirements for toys intended for children under 36 months	NA
5.2	Soft-filled toys and soft-filled parts of a toy	NA
5.3	Plastic sheeting	NA
5.4	Cords, chains and electrical cables in toys	NA
5.5	Liquid filled toys	NA
5.6	Speed limitation of electrically driven ride-on toys	NA
5.7	Glass and porcelain	NA
5.8	Shape and size of certain toys	NA
5.9	Toys comprising monofilament fibres	NA
5.10	Small balls	NA
5.11	Play figures	NA
5.12	Hemispheric-shaped toys	NA
5.13	Suction cups	NA
5.14	Straps intended to be worn fully or partially around the neck	NA
5.15	Sledges with cords for pulling (7.24)	NA
6	Packaging	P
7	Warnings, markings and instructions for use	
7.1	General	P
7.2	Toys not intended for children under 36 months	P
7.3	Latex balloons	NA
7.4	Aquatic toys	NA
7.5	Functional toys	NA
7.6	Hazardous sharp functional edges and points	NA
7.7	Projectile Toys	P



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Clause	Requirement	Assessment
7.8	Imitation protective masks and helmets	NA
7.9	Toy kites	NA
7.10	Roller skates, inline skates, skateboards and certain other ride-on toys	NA
7.11	Toys intended to be attached to or strung across a cradle, cot, or perambulator	NA
7.12	Liquid-filled teethers	NA
7.13	Percussion caps specifically designed for use in toys	NA
7.14	Acoustics	NA
7.15	Toy bicycles	NA
7.16	Toys intended to bear the mass of a child	NA
7.17	Toys comprising monofilament fibres	NA
7.18	Toy scooters	NA
7.19	Rocking horses and similar toys	NA
7.20	Magnetic / electrical experimental sets	NA
7.21	Toys with electrical cables exceeding 300 mm in length	NA
7.22	Toys with cords or chains intended for children of 18 months and over but under 36 months	NA
7.23	Toys intended to be attached to a cradle, cot or perambulator	NA
7.24	Sledges with cords for pulling	NA
7.25	Flying toys	NA
7.26	Improvised projectiles	NA

Abbreviation : P = Pass NA = Not Applicable



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Below are additional information according to the Toy Safety Directive 2009/48/EC requirement. These information also appears as a note within the EN71 but are not standard requirements and not accredited:

Marking

The manufacturer's and importer's name, registered trade name or registered trade mark, the address and type, batch, serial or model number or other element allowing their identification shall be indicated on the product itself. In addition, toys or packagings shall also bear the CE-marking. After checking, it was found that

	Toy	Packaging
Manufacturer's name	Absent	Present
Manufacturer's address	Absent	Present (For # ZC7116 and ZC7117) Absent (For others)
Importer's name	Absent	Absent
Importer's address	Absent	Absent
Product identification code	Absent	Present
CE-marking	Absent	Present

Date sample received : Mar 31, 2020 to May 08, 2020, May 20, 2020, May 25, 2020, Jun 02, 2020, Jun 15, 2020, Jun 23, 2020, Jul 31, 2020, Aug 10, 2020 and Sep 07, 2020

Test Period : Mar 31, 2020 to Sep 08, 2020



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Number : HKGH02574484 S4

(2) Flammability Test

Test Standard : European Standard on Safety of Toys EN71-2 : 2011 + A1 : 2014

Clause	Requirement	Assessment
4.1	General	P
4.2	Toys to be worn on the head	NA
4.3	Toy disguise costumes and toys intended to be worn by a child in play	NA
4.4	Toys intended to be entered by a child	NA
4.5	Soft filled toys	NA

Abbreviation : P = Pass NA = Not Applicable

Date sample received : Mar 31, 2020
Test Period : Mar 31, 2020 to May 15, 2020



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(3) 19 Toxic Element Migration Test

Test Method : EN 71-3:2019. Acid extraction method was used and toxic elements content were determined by Inductively Coupled Argon Plasma Spectrometry and Ion Chromatography- Inductively Coupled Plasma-Mass Spectrometry and/or Gas Chromatographic - Mass Spectrometry

Category (III): Scraped-off toy material:

	Result (mg/kg)			Limit (mg/kg)
	(1)	(2)	(3)	
Soluble Aluminium (Al)	460	4900	7900	70000
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	<10	<10	<10	18750
Soluble Boron (B)	<50	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	<5	17
Soluble Chromium (III) (Cr III)	<10	<10	<10	460
Soluble Chromium (VI) (Cr VI)	<0.025	<0.025	<0.025	0.053
Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	23
Soluble Manganese (Mn)	<10	<10	<10	15000
Soluble Mercury (Hg)	<10	<10	<10	94
Soluble Nickel (Ni)	<10	<10	<10	930
Soluble Selenium (Se)	<10	<10	<10	460
Soluble Strontium (Sr)	<100	<100	<100	56000
Soluble Tin (Sn)	<10	<10	<10	180000
Soluble Organic tin ++	<2.0	<2.0	<2.0	12
Soluble Zinc (Zn)	<100	<100	<100	46000



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	Result (mg/kg)			Limit (mg/kg)
	(4)	(5)	(6)	
Soluble Aluminium (Al)	8900	<300	380	70000
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	<10	<10	<10	18750
Soluble Boron (B)	<50	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	<5	17
Soluble Chromium (III) (Cr III)	<10	<10	<10	460
Soluble Chromium (VI) (Cr VI)	<0.025	<0.025	<0.025	0.053
Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	23
Soluble Manganese (Mn)	<10	<10	<10	15000
Soluble Mercury (Hg)	<10	<10	<10	94
Soluble Nickel (Ni)	<10	<10	<10	930
Soluble Selenium (Se)	<10	<10	<10	460
Soluble Strontium (Sr)	<100	<100	<100	56000
Soluble Tin (Sn)	<10	<10	<10	180000
Soluble Organic tin ++	<2.0	<2.0	<2.0	12
Soluble Zinc (Zn)	<100	<100	<100	46000



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	Result (mg/kg)			Limit (mg/kg)
	(7)	(8)	(9)	
Soluble Aluminium (Al)	<300	<300	<300	70000
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	<10	<10	<10	18750
Soluble Boron (B)	<50	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	<5	17
Soluble Chromium (III) (Cr III)	<10	<10	<10	460
Soluble Chromium (VI) (Cr VI)	<0.025	<0.025	<0.025	0.053
Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	23
Soluble Manganese (Mn)	<10	<10	<10	15000
Soluble Mercury (Hg)	<10	<10	<10	94
Soluble Nickel (Ni)	<10	<10	<10	930
Soluble Selenium (Se)	<10	<10	<10	460
Soluble Strontium (Sr)	<100	310	<100	56000
Soluble Tin (Sn)	<10	<10	<10	180000
Soluble Organic tin ++	<2.0	<2.0	<2.0	12
Soluble Zinc (Zn)	<100	<100	<100	46000



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	Result (mg/kg)			Limit (mg/kg)
	(10)	(11)	(12)	
Soluble Aluminium (Al)	460	550	350	70000
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	<10	<10	<10	18750
Soluble Boron (B)	<50	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	<5	17
Soluble Chromium (III) (Cr III)	<10	<10	<10	460
Soluble Chromium (VI) (Cr VI)	<0.025	<0.025	<0.025	0.053
Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	23
Soluble Manganese (Mn)	<10	<10	<10	15000
Soluble Mercury (Hg)	<10	<10	<10	94
Soluble Nickel (Ni)	<10	<10	<10	930
Soluble Selenium (Se)	<10	<10	<10	460
Soluble Strontium (Sr)	<100	<100	<100	56000
Soluble Tin (Sn)	<10	<10	<10	180000
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	(13)	(14)	(15)	
Soluble Aluminium (Al)	<300	350	<300	70000
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	<10	<10	23	18750
Soluble Boron (B)	<50	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	<5	17
Soluble Chromium (III) (Cr III)	<10	<10	<10	460
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Soluble Manganese (Mn)	<10	<10	<10	15000
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Soluble Selenium (Se)	<10	<10	<10	460
Soluble Strontium (Sr)	<100	<100	<100	56000
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	Result (mg/kg)			Limit (mg/kg)
	(16)	(17)	(18)	
Soluble Aluminium (Al)	<300	<300	<300	70000
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	<10	120	<10	18750
Soluble Boron (B)	<50	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	<5	17
Soluble Chromium (III) (Cr III)	<10	<10	<10	460
Soluble Chromium (VI) (Cr VI)	<0.025	<0.025	<0.025	0.053
Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	23
Soluble Manganese (Mn)	<10	<10	<10	15000
Soluble Mercury (Hg)	<10	<10	<10	94
Soluble Nickel (Ni)	<10	<10	<10	930
Soluble Selenium (Se)	<10	<10	<10	460
Soluble Strontium (Sr)	200	<100	<100	56000
Soluble Tin (Sn)	<10	<10	<10	180000
Soluble Organic tin ++	<2.0	<2.0	<2.0	12
Soluble Zinc (Zn)	<100	<100	<100	46000



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TEST REPORT

Number : HKGH02574484 S4

	Result (mg/kg)			Limit (mg/kg)
	(19)	(20)	(21)	
Soluble Aluminium (Al)	<300	<300	<300	70000
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	<10	<10	<10	18750
Soluble Boron (B)	<50	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	<5	17
Soluble Chromium (III) (Cr III)	<10	<10	<10	460
Soluble Chromium (VI) (Cr VI)	<0.025	<0.025	<0.025	0.053
Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	23
Soluble Manganese (Mn)	<10	<10	<10	15000
Soluble Mercury (Hg)	<10	<10	<10	94
Soluble Nickel (Ni)	<10	<10	<10	930
Soluble Selenium (Se)	<10	<10	<10	460
Soluble Strontium (Sr)	<100	<100	<100	56000
Soluble Tin (Sn)	<10	<10	<10	180000
Soluble Organic tin ++	<2.0	<2.0	<2.0	12
Soluble Zinc (Zn)	<100	<100	<100	46000



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TEST REPORT

Number : HKGH02574484 S4

	Result (mg/kg)			Limit (mg/kg)
	(22)	(23)	(24)	
Soluble Aluminium (Al)	<300	<300	<300	70000
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	<10	<10	<10	18750
Soluble Boron (B)	<50	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	<5	17
Soluble Chromium (III) (Cr III)	<10	<10	<10	460
Soluble Chromium (VI) (Cr VI)	<0.025	<0.025	<0.025	0.053
Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	23
Soluble Manganese (Mn)	<10	<10	<10	15000
Soluble Mercury (Hg)	<10	<10	<10	94
Soluble Nickel (Ni)	<10	<10	<10	930
Soluble Selenium (Se)	<10	<10	<10	460
Soluble Strontium (Sr)	<100	<100	<100	56000
Soluble Tin (Sn)	<10	<10	<10	180000
Soluble Organic tin ++	<2.0	<2.0	7.0	12
Soluble Zinc (Zn)	<100	<100	<100	46000



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TESTING
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TEST REPORT

Number : HKGH02574484 S4

	Result (mg/kg)			Limit (mg/kg)
	(25)	(26)	(27)	
Soluble Aluminium (Al)	<300	<300	<300	70000
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	<10	<10	<10	18750
Soluble Boron (B)	<50	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	<5	17
Soluble Chromium (III) (Cr III)	<10	<10	<10	460
Soluble Chromium (VI) (Cr VI)	<0.025	<0.025	<0.025	0.053
Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	23
Soluble Manganese (Mn)	<10	<10	<10	15000
Soluble Mercury (Hg)	<10	<10	<10	94
Soluble Nickel (Ni)	<10	<10	<10	930
Soluble Selenium (Se)	<10	<10	<10	460
Soluble Strontium (Sr)	<100	<100	<100	56000
Soluble Tin (Sn)	<10	<10	<10	180000
Soluble Organic tin ++	<2.0	<2.0	<2.0	12
Soluble Zinc (Zn)	<100	<100	<100	46000



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TESTING
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TEST REPORT

Number : HKGH02574484 S4

	Result (mg/kg)			Limit (mg/kg)
	(28)	(29)	(30)	
Soluble Aluminium (Al)	<300	<300	<300	70000
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	<10	<10	<10	18750
Soluble Boron (B)	<50	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	<5	17
Soluble Chromium (III) (Cr III)	<10	<10	<10	460
Soluble Chromium (VI) (Cr VI)	<0.025	<0.025	<0.025	0.053
Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	23
Soluble Manganese (Mn)	<10	<10	<10	15000
Soluble Mercury (Hg)	<10	<10	<10	94
Soluble Nickel (Ni)	<10	<10	<10	930
Soluble Selenium (Se)	<10	<10	<10	460
Soluble Strontium (Sr)	<100	<100	<100	56000
Soluble Tin (Sn)	<10	<10	<10	180000
Soluble Organic tin ++	<2.0	<2.0	<2.0	12
Soluble Zinc (Zn)	<100	<100	<100	46000



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TEST REPORT

Number : HKGH02574484 S4

	Result (mg/kg)			Limit (mg/kg)
	(31)	(32)	(33)	
Soluble Aluminium (Al)	<300	<300	<300	70000
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	<10	<10	<10	18750
Soluble Boron (B)	<50	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	<5	17
Soluble Chromium (III) (Cr III)	<10	<10	<10	460
Soluble Chromium (VI) (Cr VI)	<0.025	<0.025	<0.025	0.053
Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	23
Soluble Manganese (Mn)	<10	<10	<10	15000
Soluble Mercury (Hg)	<10	<10	<10	94
Soluble Nickel (Ni)	<10	<10	<10	930
Soluble Selenium (Se)	<10	<10	<10	460
Soluble Strontium (Sr)	<100	<100	<100	56000
Soluble Tin (Sn)	<10	<10	<10	180000
Soluble Organic tin ++	<2.0	<2.0	<2.0	12
Soluble Zinc (Zn)	<100	<100	<100	46000



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TESTING
CNAS L3256

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TEST REPORT

Number : HKGH02574484 S4

	Result (mg/kg)			Limit (mg/kg)
	(34)	(35)	(36)	
Soluble Aluminium (Al)	<300	<300	<300	70000
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	<10	<10	<10	18750
Soluble Boron (B)	<50	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	<5	17
Soluble Chromium (III) (Cr III)	<10	<10	<10	460
Soluble Chromium (VI) (Cr VI)	<0.025	<0.025	<0.025	0.053
Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	23
Soluble Manganese (Mn)	<10	<10	<10	15000
Soluble Mercury (Hg)	<10	<10	<10	94
Soluble Nickel (Ni)	<10	<10	<10	930
Soluble Selenium (Se)	<10	<10	<10	460
Soluble Strontium (Sr)	<100	<100	<100	56000
Soluble Tin (Sn)	<10	<10	<10	180000
Soluble Organic tin ++	<2.0	<2.0	<2.0	12
Soluble Zinc (Zn)	<100	<100	<100	46000



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TESTING
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TEST REPORT

Number : HKGH02574484 S4

	Result (mg/kg)			Limit (mg/kg)
	(37)	(38)	(39)	
Soluble Aluminium (Al)	<300	<300	<300	70000
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	<10	<10	<10	18750
Soluble Boron (B)	<50	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	<5	17
Soluble Chromium (III) (Cr III)	<10	<10	<10	460
Soluble Chromium (VI) (Cr VI)	<0.025	<0.025	<0.025	0.053
Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	23
Soluble Manganese (Mn)	<10	<10	<10	15000
Soluble Mercury (Hg)	<10	<10	<10	94
Soluble Nickel (Ni)	<10	<10	<10	930
Soluble Selenium (Se)	<10	<10	<10	460
Soluble Strontium (Sr)	<100	<100	<100	56000
Soluble Tin (Sn)	<10	<10	<10	180000
Soluble Organic tin ++	<2.0	<2.0	<2.0	12
Soluble Zinc (Zn)	<100	<100	<100	46000



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TESTING
CNAS L3256

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TEST REPORT

Number : HKGH02574484 S4

	Result (mg/kg)			Limit (mg/kg)
	(40)	(41)	(42)	
Soluble Aluminium (Al)	<300	<300	<300	70000
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	<10	<10	<10	18750
Soluble Boron (B)	<50	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	<5	17
Soluble Chromium (III) (Cr III)	<10	<10	<10	460
Soluble Chromium (VI) (Cr VI)	<0.025	<0.025	<0.025	0.053
Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	23
Soluble Manganese (Mn)	<10	<10	<10	15000
Soluble Mercury (Hg)	<10	<10	<10	94
Soluble Nickel (Ni)	<10	<10	<10	930
Soluble Selenium (Se)	<10	<10	<10	460
Soluble Strontium (Sr)	<100	<100	<100	56000
Soluble Tin (Sn)	<10	<10	<10	180000
Soluble Organic tin ++	<2.0	<2.0	<2.0	12
Soluble Zinc (Zn)	<100	<100	<100	46000



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检测
TESTING
CNAS L3256

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TEST REPORT

Number : HKGH02574484 S4

	Result (mg/kg)			Limit (mg/kg)
	(43)	(44)	(45)	
Soluble Aluminium (Al)	<300	<300	<300	70000
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	<10	<10	<10	18750
Soluble Boron (B)	<50	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	<5	17
Soluble Chromium (III) (Cr III)	<10	<10	<10	460
Soluble Chromium (VI) (Cr VI)	<0.025	<0.025	<0.025	0.053
Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	23
Soluble Manganese (Mn)	<10	<10	<10	15000
Soluble Mercury (Hg)	<10	<10	<10	94
Soluble Nickel (Ni)	<10	<10	<10	930
Soluble Selenium (Se)	<10	<10	<10	460
Soluble Strontium (Sr)	<100	<100	<100	56000
Soluble Tin (Sn)	<10	<10	<10	180000
Soluble Organic tin ++	<2.0	<2.0	<2.0	12
Soluble Zinc (Zn)	<100	<100	<100	46000



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检测
TESTING
CNAS L3256

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TEST REPORT

Number : HKGH02574484 S4

	Result (mg/kg)			Limit (mg/kg)
	(46)	(47)	(48)	
Soluble Aluminium (Al)	<300	<300	<300	70000
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	160	<10	<10	18750
Soluble Boron (B)	<50	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	<5	17
Soluble Chromium (III) (Cr III)	<10	<10	<10	460
Soluble Chromium (VI) (Cr VI)	<0.025	<0.025	<0.025	0.053
Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	23
Soluble Manganese (Mn)	<10	<10	<10	15000
Soluble Mercury (Hg)	<10	<10	<10	94
Soluble Nickel (Ni)	<10	<10	<10	930
Soluble Selenium (Se)	<10	<10	<10	460
Soluble Strontium (Sr)	<100	<100	<100	56000
Soluble Tin (Sn)	<10	<10	<10	180000
Soluble Organic tin ++	<2.0	<2.0	<2.0	12
Soluble Zinc (Zn)	2300	2300	<100	46000



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检测
TESTING
CNAS L3256

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TEST REPORT

Number : HKGH02574484 S4

	Result (mg/kg)			Limit (mg/kg)
	(49)	(50)	(51)	
Soluble Aluminium (Al)	<300	<300	<300	70000
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	<10	<10	<10	18750
Soluble Boron (B)	<50	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	<5	17
Soluble Chromium (III) (Cr III)	<10	<10	<10	460
Soluble Chromium (VI) (Cr VI)	<0.025	<0.025	<0.025	0.053
Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	23
Soluble Manganese (Mn)	<10	<10	<10	15000
Soluble Mercury (Hg)	<10	<10	<10	94
Soluble Nickel (Ni)	<10	<10	<10	930
Soluble Selenium (Se)	<10	<10	<10	460
Soluble Strontium (Sr)	<100	<100	<100	56000
Soluble Tin (Sn)	<10	<10	<10	180000
Soluble Organic tin ++	<2.0	<2.0	<2.0	12
Soluble Zinc (Zn)	<100	<100	<100	46000



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TEST REPORT

Number : HKGH02574484 S4

	Result (mg/kg)			Limit (mg/kg)
	(52)	(53)	(54)	
Soluble Aluminium (Al)	<300	<300	<300	70000
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	<10	<10	<10	18750
Soluble Boron (B)	<50	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	<5	17
Soluble Chromium (III) (Cr III)	<10	<10	<10	460
Soluble Chromium (VI) (Cr VI)	<0.025	<0.025	<0.025	0.053
Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	23
Soluble Manganese (Mn)	<10	<10	<10	15000
Soluble Mercury (Hg)	<10	<10	<10	94
Soluble Nickel (Ni)	<10	<10	<10	930
Soluble Selenium (Se)	<10	<10	<10	460
Soluble Strontium (Sr)	<100	<100	<100	56000
Soluble Tin (Sn)	<10	<10	<10	180000
Soluble Organic tin ++	<2.0	<2.0	<2.0	12
Soluble Zinc (Zn)	<100	<100	<100	46000



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TEST REPORT

Number : HKGH02574484 S4

	Result (mg/kg)		Limit (mg/kg)
	(55)	(56)	
Soluble Aluminium (Al)	<300	<300	70000
Soluble Antimony (Sb)	<10	<10	560
Soluble Arsenic (As)	<10	<10	47
Soluble Barium (Ba)	<10	<10	18750
Soluble Boron (B)	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	17
Soluble Chromium (III) (Cr III)	<10	<10	460
Soluble Chromium (VI) (Cr VI)	<0.025	<0.025	0.053
Soluble Cobalt (Co)	<10	<10	130
Soluble Copper (Cu)	<10	<10	7700
Soluble Lead (Pb)	<10	<10	23
Soluble Manganese (Mn)	<10	<10	15000
Soluble Mercury (Hg)	<10	<10	94
Soluble Nickel (Ni)	<10	<10	930
Soluble Selenium (Se)	<10	<10	460
Soluble Strontium (Sr)	<100	<100	56000
Soluble Tin (Sn)	<10	<10	180000
Soluble Organic tin ++	<2.0	<2.0	12
Soluble Zinc (Zn)	<100	<100	46000

mg/kg = milligram per kilogram

++ : Unless the test result was marked with "Δ", Organic tin content was not directly determined and was derived from migration result of total tin.

Organic tin test result was expressed as tributyl tin.

Chromium (III) value was calculated as difference between migration results of total Chromium and Chromium (VI).



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TEST REPORT

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The new aluminium migration limit [2250mg/kg for Category (I), 560mg/kg for category (II) and 28130mg/kg for Category (III)] was quoted from directive (EU) 2019/1922 amending 2009/48/EC effective from 20 May 2021.

Tested Components:

- (1) Grey coating on plastic (body7022, 7063, 7060, ZC7105, 7054, ZC7099, 7061, ZC7097, 7036, 7032, 7004,7006,7011, 7007, ZC7077,ZC7079,ZC7083, 7005, 7010, 7033, 7009,7029, ZC7080).
- (2) Light black coating on plastic (bodyZC7105, 7054).
- (3) Deep grey coating on plastic (body7050, ZC7117, ZC7097, 7056ZC7087,ZC7088,ZC7089,ZC7090,ZC7091, 7053,7055,7057, 7032, 7052, 7004,7006,7011, 7007, ZC7077,ZC7079,ZC7083, ZC7076, 7051, ZC7073, 7010, 7033, ZC7075, ZC7116, 7009,7029, ZC7080, ZC7092).
- (4) Silver color coating on plastic (body7022, 7065, ZC7112, 7068, ZC7104, 7067, ZC7117, ZC7098, ZC7118, ZC7082, 7037, ZC7087, ZC7088,ZC7089,ZC7090,ZC7091, ZC7078, ZC7122, 7003, 7024, 7007, ZC7077,ZC7079,ZC7083, 7005, ZC7116, 7009,7029, ZC7081, ZC7080).
- (5) Gold color coating on plastic (body7052, 7003).
- (6) Black coating on plastic (body7022, 7068, ZC7118, , 7056, 7020, 7021,7023, 7019, 7024, 7007, 7005, 7010, 7009,7029, 7025, ZC7080).
- (7) White coating on plastic (bodyZC7100, ZC7086, ZC7095, 7038, 7063, 7065, ZC7081, ZC7110, ZC7106, ZC7098, ZC7102, ZC7107, ZC7114, ZC7115, ZC7071, ZC7113, ZC7112, ZC7105, 7054, ZC7104, ZC7109, ZC7099, 7067, 7050, ZC7117, 7065, ZC7118, ZC7082, ZC7097, 7037, ZC7103, ZC7096, 7056, ZC7072, 7069, 7036, ZC7093, ZC7108, ZC7087,ZC7088,ZC7089,ZC7090,ZC7091, 7053,7055,7057, ZC7078, ZC7122, 7032, ZC7101, 7002, ZC7077,ZC7079,ZC7083, ZC7076, 7051, ZC7073, 7033, ZC7075, ZC7111, ZC7116, 7036, ZC7080, ZC7092).
- (8) Red coating on plastic (body of gun7038, 7039, ZC7097, 7021,7023, 7004,7006,7011, 7007).
- (9) Yellow coating on plastic (body7068, 7021,7023, 7032, 7005).
- (10) Orange coating on plastic (body 7065, ZC7105, 7036, 7005).
- (11) Light blue coating on plastic (body7068).
- (12) Deep blue coating on plastic (body 7059, 7062, 7060, 7058, 7061, ZC7097, 7032, 7004,7006,7011, 7021,7023, 7007, 7024).
- (13) Purple coating on plastic (body of gun7059, 7062, 7060, 7058, 7061).
- (14) Deep pink coating on plastic (body7058).
- (15) Coatings on plastic (body7066).
- (16) Green coating on plastic (body7021,7023, 7004,7006,7011, 7024).
- (17) Red plastic (body of gun7038, 7065, ZC7071, 7068, ZC7100, ZC7099, 7067, ZC7098, ZC7097, ZC7072, 7069, 7007).



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TEST REPORT

Number : HKGH02574484 S4

Tested Components:

- (18) White plastic (body of gun7022, 7059, 7062, ZC7113, 7060, 7058, 7061, 7020, 7021,7023, 7019, 7024).
- (19) Yellow plastic (body of gun7038, 7039, ZC7071, 7003, 7004,7006,7011, 7007,7010, 7009,7029, 7005).
- (20) Deep yellow plastic (body of gunZC7115, ZC7114, 7065, 7067, 7036).
- (21) Orange plastic (body of gun7022, ZC7100, ZC7086, ZC7095, 7063, 7065, ZC7097, 7039, ZC7102, ZC7107, ZC7110, ZC7106, ZC7115, ZC7114, 7059, ZC7113, ZC7112, ZC7105, 7068, ZC7104, ZC7109, 7054, ZC7099, 7050, ZC7117, 7065, ZC7098, ZC7118, , 7037, ZC7103, ZC7096, 7066, 7036, ZC7093, ZC7108, ZC7087,ZC7088,ZC7089,ZC7090,ZC7091, 7053,7055,7057, 7020, ZC7078, ZC7122, 7021,7023, 7001, 7032, ZC7101, 7052, 7019, 7003, 7004,7006,7011, 7024, 7007, ZC7077,ZC7079,ZC7083, 7051, ZC7073, 7010, 7033, ZC7111, ZC7116, 7009,7029, 7036, 7025, ZC7080, ZC7092, 7005).
- (22) Light blue plastic (body7068, 7067, 7050).
- (23) Blue plastic (bodyZC7086, ZC7095, 7063, 7065, ZC7102, ZC7107, ZC7096, 7032 ZC7118, ZC7110, ZC7106, ZC7071, ZC7112, ZC7104, ZC7109, 7054, 7050, ZC7117, ZC7097, 7037, 7056, 7056, ZC7072, 7069, 7066, 7036, ZC7093 ,7052, ZC7108ZC7087,ZC7088,ZC7089,ZC7090,ZC7091, ZC7122, 7053,7055,7057, ZC7101, 7051, ZC7073, 7033, ZC7111, ZC7116, ZC7116, ZC7092) (body of bow7065).
- (24) Light grey plastic (body of gunZC7107, 7056, 7053,7055,7057, 7024, 7007, ZC7077,ZC7079,ZC7083).
- (25) Grey plastic (body of gunZC7114, ZC7105, ZC7080).
- (26) Deep grey plastic (body of gunZC7086, ZC7095, 7038, 7063, 7039, ZC7102, 7058, ZC7096, ZC7072, 7069, 7036 , ZC7104, ZC7109, ZC7107, 7059, ZC7105, ZC7100, ZC7099, ZC7117, 7065, 7061, ZC7098, 7066, ZC7093, ZC7108ZC7087,ZC7088,ZC7089,ZC7090,ZC7091, ZC7101, ZC7111, ZC7116, 7036, ZC7092, arrow).
- (27) Black plastic (body of gun7038, 7039, ZC7110, ZC7115, ZC7114, 7062, ZC7113, 7060, ZC7112, ZC7105, ZC7104, ZC7109, ZC7100, ZC7081, ZC7117, 7061, ZC7118, 7037, ZC7103, ZC7096, 7066, ZC7108, ZC7122, ZC7101, ZC7111, ZC7116).
- (28) Brown plastic (body of gunZC7114).
- (29) Deep brown plastic (body7052, 7003).
- (30) Dark blue plastic (body of gunZC7081, ZC7082, ZC7078, ZC7077,ZC7079, ZC7083, ZC7076, ZC7075, ZC7080).
- (31) Pale blue plastic (body of gunZC7081, ZC7082, ZC7078, ZC7077,ZC7079, ZC7076, ZC7075 , ZC7083, ZC7080).
- (32) Deep pink plastic (body of gun7059, 7062, 7060, 7058, 7061).
- (33) Light green plastic (body 7050, ZC7087,ZC7088,ZC7089,ZC7090,ZC709, 7020, 7002 7001, 7019, 7051, ZC7116).
- (34) Deep green plastic (body7001, 7002).
- (35) Transparent green plastic (body7025).



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TEST REPORT

Number : HKGH02574484 S4

Tested Components:

- (36) Transparent plastic (body7068, ZC7109, ZC7100, 7050, ZC7096, 7056, ZC7087,ZC7088,ZC7089,ZC7090,ZC709, 7053,7055,7057, ZC7101, 7052, 7004,7006,7011, ZC7073).
- (37) Transparent plastic with backing (bodyZC7086).
- (38) Orange plastic (arrow, deep blue bullet, orange bullet, red bullet).
- (39) Purple plastic (green bullet, purple bullet).
- (40) Black plastic (arrow).
- (41) Translucent plastic (board7035).
- (42) Silver color metal (screw gun).
- (43) Black elastic band (elastic band of bow7065, ZC7107, 7059).
- (44) Grey elastic band (elastic band of bow7066).
- (45) Deep pink elastic band (elastic band of bow7065).
- (46) Red foam (red bullet).
- (47) Deep blue foam (deep blue bullet).
- (48) Orange foam (orange bullet).
- (49) Yellow foam (yellow bullet, arrow).
- (50) Purple foam (purple bullet).
- (51) Green foam (green bullet).
- (52) Coatings on plastic (board7035).
- (53) Light red plastic (on/off switch ZC7080).
- (54) Transparent plastic (LED ZC7080).
- (55) White foam (pad ZC7092).
- (56) Translucent plastic (suction cup 7035).

Date sample received : Mar 31, 2020, Apr 21, 2020, Apr 22, 2020 and May 07, 2020

Test Period : Mar 31, 2020 to May 11, 2020



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TEST REPORT

Number : HKGH02574484 S4

HKGH02574484-001



HKGH02574484-002



HKGH02574484-003



HKGH02574484-004





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TEST REPORT

Number : HKGH02574484 S4

HKGH02574484-005



HKGH02574484-006



HKGH02574484-007



HKGH02574484-008



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TEST REPORT

Number : HKGH02574484 S4

HKGH02574484-009



HKGH02574484-010



HKGH02574484-011



HKGH02574484-012



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TEST REPORT

Number : HKGH02574484 S4

HKGH02574484-013



HKGH02574484-014



HKGH02574484-015



HKGH02574484-016



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TEST REPORT

Number : HKGH02574484 S4

HKGH02574484-017



HKGH02574484-018



HKGH02574484-019



HKGH02574484-020



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TEST REPORT

Number : HKGH02574484 S4

HKGH02574484-021



HKGH02574484-022



HKGH02574484-023



HKGH02574484-024



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TEST REPORT

Number : HKGH02574484 S4





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TEST REPORT

Number : HKGH02574484 S4

HKGH02574484-029



HKGH02574484-030



HKGH02574484-031



HKGH02574484-032



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TEST REPORT

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TEST REPORT

Number : HKGH02574484 S4

HKGH02574484-046



HKGH02574484-047



HKGH02574484-048



HKGH02574484-049





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TEST REPORT

Number : HKGH02574484 S4





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Page 49 of 49



To: SHANTOU CITY CHENGHAI DISTRICT ZE
CONG

Ref: FC-2020-8235

Date: Nov 11, 2020

Re : Report Revision Notification

Intertek Testing Services Report Number HKGH02574484 S3 Dated Sep 08, 2020

Please be informed that all the content recorded in the above captioned report will be void. This captioned report is now superseded by a revised Intertek Testing Services report, HKGH02574484 S4.

Thank you for your attention.

For and on behalf of :
Intertek Testing Services HK Ltd.



Cindy I.K. Chan
Vice President