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Applicant: Shantou Magwhale Technology Co. LTD

Shantou City Chenghai District Lianxia town Shangcun village

industrial zone

Description of Samples: Five kinds of submitted sample(s) said to be:

Item name: Educational toys(see the attached photo)

Item No.: CJ-2001, CJ-2002, CJ-2003, CJ-2004, CJ-2005,

CJ-2006, CJ-2007, CJ-2008, CJ-2009, CJ-2010, CJ-2011, CJ-2012, CJ-2013, CJ-2014, CJ-2015, CJ-2016, CJ-2017, CJ-2018, CJ-2019

CJ-2013, CJ-2014, CJ-2015, CJ-2016, CJ-2017, CJ-2018, CJ-2019,

CJ-2020, CJ-2021, CJ-2022, CJ-2023, CJ-2024, CJ-2025, CJ-2026, CJ-2027, CJ-2020, CJ-

CJ-2027, CJ-2028, CJ-2029, CJ-2030, CJ-2031, CJ-2032, CJ-2033, CJ-2033, CJ-2032, CJ-2033, CJ-2032, CJ-2022, CJ-

CJ-2034, CJ-2035, CJ-2036, CJ-2037, CJ-2038, CJ-2039, CJ-2040,

CJ-2001D, CJ-2002D, CJ-2003D, CJ-2004D, CJ-2005D,

CJ-2006D, CJ-2007D, CJ-2008D, CJ-2009D, CJ-2010D,

CJ-2011D, CJ-2012D, CJ-2013D, CJ-2014D, CJ-2015D, CJ-2016D, CJ-2017D, CJ-2018D, CJ-2019D, CJ-2020D,

CJ-2010D, CJ-2017D, CJ-2013D, CJ-2017D, CJ-2025D, CJ-2024D, CJ-2025D,

CJ-2026D, CJ-2027D, CJ-2028D, CJ-2029D, CJ-2030D,

CJ-2031D, CJ-2032D, CJ-2033D, CJ-2034D, CJ-2035D,

CJ-2036D, CJ-2037D, CJ-2038D, CJ-2039D, CJ-2040D, CJ-2001,

CJ-2001D, CJ-2001F, CJ-2001FD, CJ-2001A, CJ-2001AD,

CJ-2002, CJ-2002D, CJ-2002F, CJ-2002FD, CJ-2002A,

CJ-2002AD, CJ-2003, CJ-2003D, CJ-2003F, CJ-2003FD,

CJ-2003A, CJ-2003AD, CJ-2004, CJ-2004D, CJ-2004F,

CJ-2004FD, CJ-2004A, CJ-2004AD, CJ-2005, CJ-2005D,

CJ-2005F, CJ-2005FD, CJ-2005A, CJ-2005AD, CJ-2006,

CJ-2006D, CJ-2006FD, CJ-2006AD, CJ-2006AD,

CJ-2007, CJ-2007D, CJ-2007F, CJ-2007FD, CJ-2007A,

CJ-2007AD, CJ-2008D, CJ-2008D, CJ-2008F, CJ-2008FD,

CJ-2008A, CJ-2008AD, CJ-2009, CJ-2009D, CJ-2009F,

CJ-2009FD, CJ-2009A, CJ-2009AD, CJ-2010, CJ-2010D,

CJ-2010F, CJ-2010FD, CJ-2010A, CJ-2010AD, CJ-2011I,

CJ-2011D, CJ-2011F, CJ-2011FD, CJ-2011A, CJ-2011AD,

CJ-2011D, CJ-2011F, CJ-2011FD, CJ-2011A, CJ-2011AD

CJ-2012, CJ-2012D, CJ-2012F, CJ-2012FD, CJ-2012A, CJ-2012AD, CJ-2013, CJ-2013D, CJ-2013F, CJ-2013FD

WU Chou,Runner Authorized Signatory

HUANG Qi-yin, Shanny Authorized Signatory









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CJ-2013A, CJ-2013AD, CJ-2014, CJ-2014D, CJ-2014F, CJ-2014FD, CJ-2014A, CJ-2014AD, CJ-2015, CJ-2015D, CJ-2015F, CJ-2015FD, CJ-2015A, CJ-2015AD, CJ-2016, CJ-2016D, CJ-2016F, CJ-2016FD, CJ-2016A, CJ-2016AD, CJ-2017, CJ-2017D, CJ-2017F, CJ-2017FD, CJ-2017A, CJ-2017AD, CJ-2018, CJ-2018D, CJ-2018F, CJ-2018FD, CJ-2018A, CJ-2018AD, CJ-2019, CJ-2019D, CJ-2019F, CJ-2019FD, CJ-2019A, CJ-2019AD, CJ-2020, CJ-2020D, CJ-2020F, CJ-2020FD, CJ-2020A, CJ-2020AD, CJ-2021, CJ-2021D, CJ-2021F, CJ-2021FD, CJ-2021A, CJ-2021AD, CJ-2022, CJ-2022D, CJ-2022F, CJ-2022FD, CJ-2022A, CJ-2022AD, CJ-2023, CJ-2023D, CJ-2023F, CJ-2023FD, CJ-2023A, CJ-2023AD, CJ-2024, CJ-2024D, CJ-2024F, CJ-2024FD, CJ-2024A, CJ-2024AD, CJ-2025, CJ-2025D, CJ-2025F, CJ-2025FD, CJ-2025A, CJ-2025AD, CJ-2026, CJ-2026D, CJ-2026F, CJ-2026FD, CJ-2026A, CJ-2026AD, CJ-2027, CJ-2027D, CJ-2027F, CJ-2027FD, CJ-2027A, CJ-2027AD, CJ-2028, CJ-2028D, CJ-2028F, CJ-2028FD, CJ-2028A, CJ-2028AD, CJ-2029, CJ-2029D, CJ-2029F, CJ-2029FD, CJ-2029A, CJ-2029AD, CJ-2030D, CJ-2030F, CJ-2030FD, CJ-2030A, CJ-2030AD, 500817 Age Grading for Testing: 3+

Date Samples Received : 2024-11-07 and 2024-11-14

Date Tested : 2024-11-07 to 2024-11-18

WU Chou,Runner Authorized Signatory HUANG Qi-yin,Shanny Authorized Signatory









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Test Requested and Conclusion(s):

ICST INC	questeu and Conclusion(s).	
No.	Standard and Requirement	Conclusion(s)
	EN71-1 :2014 + A1:2018 Mechanical and physical properties	Pass
1	EN71-2: 2020 : Flammability tests	Pass
1	EN71-3: 2019+A1:2021: Migration of certain elements in the specified specimen(s) as listed	Pass
	BS EN71-1 :2014 + A1:2018 Mechanical and physical properties	Pass
2	BS EN71-2: 2020: Flammability tests	Pass
	BS EN71-3:2019+A1:2021: Migration of certain elements in the specified specimen(s) as listed	Pass

WU Chou,Runner Authorized Signatory

HUANG Qi-yin,Shanny Authorized Signatory



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Sample description

Remark: At the request of applicant, test(s) was conducted on certain components of the submitted sample(s)/submitted component(s) listed in this report.

Plastic materials

- (1) Toys: green plastic
- (2) Toys: brown plastic
- (3) Toys: beige plastic
- (4) Toys: transparent yellow plastic

Coating materials

(5) Toys: red/green/black mulitcolor coating

AGE GRADING:

The sample was appropriately age graded with the marking of "AGES 3+".

AGE GRADING FOR TESTING:

3 years up

Test Results:

1. EN71

1.1 EN71-1:2014 + A1:2018 Mechanical and physical properties

Applicable Clause	<u>Description</u>	Result
4	General requirements	
4.1	Material cleanliness	Pass
4.7	Edges	Pass
4.8	Points and metallic wires	Pass
4.9	Protruding parts	Pass
4.22	Small balls	Pass
4.23	Magnets	Pass
6	Packaging	Pass
7	Warning, markings and instructions for use	
7.1	General	Pass
7.2	Toys not intended for children under 36 months	Pass

1.2 EN71-2: 2020: Flammability test

Applicable Clause	<u>Description</u>	<u>Result</u>
4.1	General	Pass



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1.3 EN71-3:2019+A1:2021: Migration of certain elements

Method used: EN71-3: 2019+A1:2021

Determined by: Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer,

Inductively Coupled Plasma Mass Spectrometry and Ion Chromatograph with

post-column derivatisation and UV/VIS detection.

Category III: Scraped off toy materials

Elements	Result (mg/kg)			Limit (mg/kg)
	(1)	(2)	(3)	
Aluminium	ND	ND	ND	28130
Antimony	ND	ND	ND	560
Arsenic	ND	ND	ND	47
Barium	ND	ND	ND	18750
Boron	ND	ND	ND	15000
Cadmium	ND	ND	ND	17
Chromium	ND	ND	ND	
Chromium (III)	ND	ND	ND	460
Chromium (VI)	ND	ND	ND	0.053
Cobalt	ND	ND	ND	130
Copper	ND	ND	ND	7700
Lead	ND	ND	ND	23
Manganese	ND	ND	ND	15000
Mercury	ND	ND	ND	94
Nickel	ND	ND	ND	930
Selenium	ND	ND	ND	460
Strontium	ND	ND	ND	56000
Tin	ND	ND	ND	180000
Organic tin	ND	ND	ND	12
Zinc	ND	ND	ND	46000

Elements	Result	Limit (mg/kg)	
	(4)	(5)	
Aluminium	ND	ND	28130
Antimony	ND	ND	560
Arsenic	ND	ND	47
Barium	ND	ND	18750
Boron	ND	ND	15000
Cadmium	ND	ND	17
Chromium	ND	ND	
Chromium (III)	ND	ND	460
Chromium (VI)	ND	ND	0.053
Cobalt	ND	ND	130



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Elements	Result	Limit (mg/kg)	
	(4)	(5)	
Copper	ND	ND	7700
Lead	ND	ND	23
Manganese	ND	ND	15000
Mercury	ND	ND	94
Nickel	ND	ND	930
Selenium	ND	ND	460
Strontium	ND	ND	56000
Tin	ND	ND	180000
Organic tin	ND	ND	12
Zinc	ND	ND	46000

Notes: (1) ND = Not detected (Detection limit see Table C)

- (2) mg/kg = milligrams per kilogram
- (3) The Chromium (III) and Chromium (VI) content was determined by screening the soluble Chromium content. When the result of Chromium exceeded the limit of Chromium (III) and Chromium (VI), confirmation test was performed and the Chromium III content was determined by subtracting the Chromium (VI) content from the total Chromium content.
- (4) The organic tin content was determined by screening the soluble tin content. When the tin content exceeded the limit of organic tin after conversion, confirmation test was performed in accordance with the EN 71-3:2019+A1:2021.

Table C. Detection limit	
Elements	Limit of Detection (mg/kg)
Aluminium	20
Antimony	5
Arsenic	5
Barium	20
Boron	20
Cadmium	2.5
Chromium	0.05
Chromium (III)	0.05
Chromium (VI)	0.03
Cobalt	5
Copper	20
Lead	5
Manganese	20
Mercury	5

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 Table C. Detection limit

 Elements
 Limit of Detection (mg/kg)

 Nickel
 5

 Selenium
 5

 Strontium
 20

 Tin
 2.5

 Organic tin
 0.5

 Zinc
 20

2. BS EN71

2.1 BS EN71-1:2014+A1:2018 - Mechanical and physical properties

<u>Description</u>	<u>Result</u>
General requirements	
Material cleanliness	Pass
Edges	Pass
Points and metallic wires	Pass
Protruding parts	Pass
Small balls	Pass
Magnets	Pass
Packaging	Pass
Warning, markings and instructions for use	
General	Pass
Toys not intended for children under 36 months	Pass
	General requirements Material cleanliness Edges Points and metallic wires Protruding parts Small balls Magnets Packaging Warning, markings and instructions for use General

2.2 BS EN71-2: 2020: Flammability test

Applicable Clause	<u>Description</u>	Res	<u>sult</u>
4.1	General	Pas	SS

2.3 BS EN71-3:2019+A1:2021: Migration of certain elements

Method used: BS EN71-3: 2019+A1:2021

Determined by: Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer, Inductively Coupled Plasma Mass Spectrometry and Ion Chromatograph with post-column derivatisation and UV/VIS detection.

Category III: Scraped off toy materials

Elements	Result (mg/kg)			Limit (mg/kg)
	(1)	(2)	(3)	
Aluminium	ND	ND	ND	28130

STC (Guangdong) Company Limited



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Elements	Result (mg/kg)			Limit (mg/kg)
	(1)	(2)	(3)	
Antimony	ND	ND	ND	560
Arsenic	ND	ND	ND	47
Barium	ND	ND	ND	18750
Boron	ND	ND	ND	15000
Cadmium	ND	ND	ND	17
Chromium	ND	ND	ND	
Chromium (III)	ND	ND	ND	460
Chromium (VI)	ND	ND	ND	0.053
Cobalt	ND	ND	ND	130
Copper	ND	ND	ND	7700
Lead	ND	ND	ND	23
Manganese	ND	ND	ND	15000
Mercury	ND	ND	ND	94
Nickel	ND	ND	ND	930
Selenium	ND	ND	ND	460
Strontium	ND	ND	ND	56000
Tin	ND	ND	ND	180000
Organic tin	ND	ND	ND	12
Zinc	ND	ND	ND	46000

Elements	Result (mg/kg)		Limit (mg/kg)
	(4)	(5)	
Aluminium	ND	ND	28130
Antimony	ND	ND	560
Arsenic	ND	ND	47
Barium	ND	ND	18750
Boron	ND	ND	15000
Cadmium	ND	ND	17
Chromium	ND	ND	
Chromium (III)	ND	ND	460
Chromium (VI)	ND	ND	0.053
Cobalt	ND	ND	130
Copper	ND	ND	7700
Lead	ND	ND	23
Manganese	ND	ND	15000
Mercury	ND	ND	94
Nickel	ND	ND	930
Selenium	ND	ND	460
Strontium	ND	ND	56000
Tin	ND	ND	180000



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Elements	Result (mg/kg)		Limit (mg/kg)
	(4)	(5)	
Organic tin	ND	ND	12
Zinc	ND	ND	46000

Notes: (1) ND = Not detected (Detection limit see Table C)

- (2) mg/kg = milligrams per kilogram
- (3) The Chromium (III) and Chromium (VI) content was determined by screening the soluble Chromium content. When the result of Chromium exceeded the limit of Chromium (III) and Chromium (VI), confirmation test was performed and the Chromium III content was determined by subtracting the Chromium (VI) content from the total Chromium content.
- (4) The organic tin content was determined by screening the soluble tin content. When the tin content exceeded the limit of organic tin after conversion, confirmation test was performed in accordance with the BS EN 71-3:2019+A1:2021.

Table C. Detection limit	
Elements	Limit of Detection (mg/kg)
Aluminium	20
Antimony	5
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Barium	20
Boron	20
Cadmium	2.5
Chromium	0.05
Chromium (III)	0.05
Chromium (VI)	0.03
Cobalt	5
Copper	20
Lead	5
Manganese	20
Mercury	5
Nickel	5
Selenium	5
Strontium	20
Tin	2.5
Organic tin	0.5
Zinc	20



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Appendix for Photos of the Submitted Sample(s)















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***** End of Test Report *****

签发测试报告的条款

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