

EMC VERIFICATION SUMMARY

Report No.: SZHH01177508-003

⊠Toy			Others
Model: 656AR Product Description: Mini Cabrio F57 Battery Operated Car	Applicant: DONGGUAN CHI LOK BO TOYS CO LTD DAJI INDUSTRIAL PARK SHIPAI TOWN DONGGUAN CITY GUANGDONG PROVINCE, CHINA		
Sample Receipt Date: 10 August 2017	Test Conducted	Date: 10 Augus	st 2017 to 20 September 2017
⊠ 1 st TEST	ALL TESTS WERE CONDUCTED IN ACCORDANCE WITH:		
2 nd TEST	*EN 55014-1: 2006 + A1: 2009 + A2: 2011 *EN 55014-2: 1997 + A1: 2001 + A2: 2008 *EN 61000-3-2: 2014 *EN 61000-3-3: 2013		
Test Site and Location:	1F/2F, Building E	3, QiaoAn Scier ∩munity, Guan⊦	hen Ltd. Longhua Branch htific Technology Park, lu Subdistrict, LongHua District,
Test Result	ОК	Not OK	Remark(See page 2)
*EN 55014-1: 2006 + A1: 2009 + A2: 2011	\square		
*EN 55014-2: 1997 + A1: 2001 + A2: 2008			
*EN 61000-3-2: 2014			
*EN 61000-3-3: 2013	\boxtimes		
Remark: When determining the test conclusion, th	e Measurement Und	certainty of test h	as been considered.

Prepared and checked by:

Approved By:

Sign On File Abel Zhou Senior Engineer Intertek

Jimmy Wen Assistant Supervisor Intertek Date: 20 September 2017

This summary is part of the full report and should be read in conjunction with it.

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TRF No.: EN55014-1/-2_b

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EMC Results Conclusion (with Justification)

RE: EMC Testing Pursuant to EMC Directive 2014/30/EU, Performed On the Mini Cabrio F57 Battery Operated Car, Model: 656AR

We tested the Mini Cabrio F57 Battery Operated Car, Model: 656AR, to determine if it was in compliance with the relevant EN standards as marked on the EMC Verification Summary. We found that the unit met the requirement of EN 55014-1, EN55014-2, EN 61000-3-2, EN 61000-3-3 standards when tested after received.

The production units are required to conform to the initial sample as received when the units are placed on the market.

Remark: Standards against which no testing has been conducted of the captioned model and the engineering judgement is stated as follows:

EN61000-3-2: This product has power consumption 75W or less under normal operating conditions. It is therefore not likely to produce harmonics above the limits of the standard. The product is deemed to comply with the standard without any measurements.

TRF No.: EN55014-1/2 b

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LABORATORY MEASUREMENTS

Configuration Information

Equipment Under Test (EUT):	Mini Cabrio F57 Battery Operated Car
Model:	656AR
Serial No.:	N/A
Support Equipment:	iPod (Model Number: A1421) (Provided by Intertek)
Cables:	AUX in Cable Length With 30cm, Unshielded (Provided by Client)
Adaptor:	Model: YF002-080600BS Input: 100-240VAC 50/60Hz 180mA; Output: DC 8V 600mA; (Provided by Client)
Rated Voltage:	DC6.0V (1 x 6.0V Rechargeable Battery) AC 100-240V 50/60Hz

TRF No.: EN55014-1/2_b

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Performance Criteria for Immunity

The performance criteria are referred to the test standard: EN 55014-2

Performance criteria A

During and after the test the EUT shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed below a minimum performance level specified by the manufacturer when the EUT is used as intended. The performance level may be replaced by a permissible loss of performance. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and by what the user may reasonably expect from the EUT if used as intended.

Performance criteria B

After the test, the EUT shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed, after the application of the phenomena below a performance level specified by the manufacturer, when the EUT is used as intended. The performance level may be replaced by a permissible loss of performance.

During the test, degradation of performance is allowed. However, no change of operating state or stored data is allowed to persist after the test.

If the minimum performance level (or the permissible performance loss) is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and by what the user may reasonably expect from the EUT if used as intended.

Performance criteria C

During and after testing, a temporary loss of function is allowed, provided the function is selfrecoverable, or can be restored by the operation of the controls or cycling of the power to the EUT by the user in accordance with the manufacturer's instructions.

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Total Quality. Assured. Re Applicant: DONGGUAN CHI LOK BO TOYS CO LTD Model: 656AR Worst Case Operating Mode: motor

EN 55014-1 Radiated Scan

Used Test Equipment

Equipment No.	Equipment	Manufacturer	Model No.	Cal. Date	Due Date
SZ185-01	EMI Receiver	R & S	ESCI	9-Feb-17	9-Feb-18
SZ061-03	Biconilog Antenna	ETS	3142C	12-Oct-16	12-Oct-17
SZ188-01	Anechoic Chamber	ETS	RFD-F/A-100	16-Jan-17	16-Jan-19

Notes: 1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.

- 2. Negative sign (-) in the margin column signify levels below the limit.
- 3. Frequency range scanned: 30MHz to 1000MHz.
- 4. Only emissions significantly above equipment noise floor are reported.
- 5. Uncertainty: ±4.8dB at a level of confidence of 95%.

TRF No.: EN55014-1/2_b

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Total Quality. Assured. Re Applicant: DONGGUAN CHI LOK BO TOYS CO LTD Model: 656AR Worst Case Operating Mode: motor

Graphic Radiated Emissions Pursuant to EN55014-1: Emissions Requirement

Horizontal



Vertical



TRF No.: EN55014-1/2_b

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Data Table

Radiated Emissions Pursuant to EN55014-1: Emissions Requirement

Polarization	Frequency (MHz)	Net at 3m (dBµV/m)	Calculated Net at 10m (dBµV/m)	Limit at 10m (dBµV/m)	Margin (dB)
Н	127.485	30.2	19.7	30.0	-10.3
Н	168.225	26.1	15.6	30.0	-14.4
Н	462.135	34.6	24.1	37.0	-12.9
V	123.120	37.6	27.1	30.0	-2.9
V	143.005	34.3	23.8	30.0	-6.2
V	353.980	36.0	25.5	37.0	-11.5

No emissions significantly above equipment noise floor.

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Total Quality. Assured. Re Applicant: DONGGUAN CHI LOK BO TOYS CO LTD Model: 656AR Worst Case Operating Mode: Charging

EN55014-1 RFI Voltage Test

Used Test Equipment

Equipment No.	Equipment	Manufacturer	Model No.	Cal. Date	Due Date
SZ187-01	LISN	R&S	ENV216	1-Nov-16	1-Nov-17
SZ187-02	LISN	R & S	ENV216	1-Nov-16	1-Nov-17
SZ185-02	EMI Test Receiver	R&S	ESCI	1-Nov-16	1-Nov-17
SZ188-03	Shielding Room	ETS	RFD-100	16-Jan-17	16-Jan-19

- Notes: 1. Peak and average detector quick scan are showed on the graph and final quasi-peak and average detector data are measured, the worst-case is recorded in the following graph and table.
 - 2. Frequency range scanned: 150kHz to 30MHz.
 - 3. Only emissions significantly above equipment noise floor are reported.
 - 4. Uncertainty: ±3.6dB at a level of confidence of 95%.

TRF No.: EN55014-1/2_b

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 Report No.: SZHH01177508-003

 Applicant:
 DONGGUAN CHI LOK BO TOYS CO LTD

 Model:
 656AR

 Worst Case Operating Mode: Charging

 Phase: Live / Neutral

Graphic RFI Voltage Test Pursuant to EN 55014-1: Emissions Requirement

Live Line



Neutral Line



TRF No.: EN55014-1/2_b

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Total Quality. Assured. Re Applicant: DONGGUAN CHI LOK BO TOYS CO LTD Model: 656AR Worst Case Operating Mode: Charging Phase: Live / Neutral

Data Table

RFI Voltage Test Pursuant to EN 55014-1: Emissions Requirement

Live Line

Frequency	Quasi	-Peak	Average		
(MHz)	Disturbance level dB(μV)	Permitted limit dB(μV)	Disturbance level dB(μV)	Permitted limit dB(μV)	
0.170000	48.5	65.0	36.8	57.6	
0.286000	40.7	60.6	36.8	52.0	
0.398000	36.9	57.9	33.9	48.5	

No emissions significantly above equipment noise floor.

Neutral Line

	Quasi	-Peak	Average		
(MHz)	Disturbance level dB(μV)	Permitted limit dB(μV)	Disturbance level dB(μV)	Permitted limit dB(μV)	
0.170000	53.5	65.0	39.8	57.6	
0.226000	47.2	62.6	34.9	54.6	
0.286000	43.7	60.6	35.3	52.0	

No emissions significantly above equipment noise floor.

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Applicant: DONGGUAN CHI LOK BO TOYS CO LTD Model: 656AR Worst Case Operating Mode: Charging

EN61000-3-3 Voltage Fluctuations

Used Test Equipment

Equip No.	Equipment	Manufacturer	Model No.	Cal. Date	Due Date
SZ064-01	Compliance Test	California	5001iX-CTS-400	9-Feb-17	9-Feb-18
32004-01	System	Instruments	30011X-013-400	9-1 -0-17	9-1 60-10
SZ064-0101	Power Analyzer and	California	PACS-1	9-Feb-17	9-Feb-18
32004-0101	Conditioning System	Instruments	FA03-1	9-FED-17	9-1-CD-10

Notes: 1. The test result consisting of worst-case was attached in the following pages.

2. Uncertainty: 0.25% at a level of confidence of 95%.

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Applicant: DONGGUAN CHI LOK BO TOYS CO LTD Model: 656AR Worst Case Operating Mode: Charging

Flicker Test Summary per EN/IEC61000-3-3 (Run time)

Pst_i and limit line





Plt and limit line



Parameter values recorded during the test:

Vrms at the end of test (Volt):	229.71			
Highest dt (%):	0.25	Test limit (%):	3.30	Pass
Time(mS) > dt:	0.0	Test limit (mS):	500.0	Pass
Highest dc (%):	0.00	Test limit (%):	3.30	Pass
Highest dmax (%):	-0.20	Test limit (%):	4.00	Pass
Highest Pst (10 min. period):	0.064	Test limit:	1.000	Pass

TRF No.: EN55014-1/2_b

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EN61000-4-2 Electrostatic Discharge

Test Summary (Pursuant to EN55014-2)

Basic Standard:	IEC 61000-4-2: 1995 + A1: 1998 + A2: 2000
Port:	Enclosure
Required Performance Criterion:	В
Limit:	±8.0kV (Air Discharge)
	±4.0kV (Contact Discharge)
	±4.0kV (Indirect Contact Discharge)
Time Between Each Discharge:	1 second
Temperature:	26.8°C
Relative Humidity:	49.6%
Test Mode:	Charging, Motor, Aux in, voice
Test Setup:	Floor Stand
Test of Post-Installation:	N/A

Used Test Equipment

Equipment No.	Equipment	Manufacturer	Model No.	Cal. Date	Due Date
SZ189-03	ESD Simulator	Teseq	NSG 435	17-Nov-16	17-Nov-17

TRF No.: EN55014-1/2_b

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Report No.: SZHH01177508-003

Applicant: DONGGUAN CHI LOK BO TOYS CO LTD Model: 656AR

Test Results

EN61000-4-2 Electrostatic Discharge

Discharge Type	No. of Discharge	Applied Voltage	Result (Pursuant to EN55014-2, Criterion B)
Contact Discharge	20	±4kV	ОК
Air Discharge	20	±8kV	ОК
Indirect HCP Discharge	20	±4kV	ОК
Indirect VCP Discharge	20	±4kV	ОК

Additional Information



No observable change

TRF No.: EN55014-1/2_b

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Report No.: SZHH01177508-003

Applicant: DONGGUAN CHI LOK BO TOYS CO LTD Model: 656AR

EN61000-4-3 Radiated Immunity

Test Summary (Pursuant to EN55014-2)

Basic Standard:	IEC 61000-4-3: 2006 + A1: 2007
Port:	Enclosure
Required Performance Criterion:	А
Limit:	3.0 V/m (rms)
Test Modulation:	1kHz, 80%AM
Frequency:	80MHz to 1000MHz
Dwell Time:	1s
Frequency Step:	1%
Test Mode:	Motor, Aux in, voice
Temperature:	25.8°C
Relative Humidity:	51.6%
Test Facility:	Full Anechoic Chamber
Type of Antenna:	BiConiLog Antenna
Antenna Polarization:	Horizontal and Vertical
Test Distance:	3 meters
Test Setup:	Floor Stand

Used Test Equipment

Equip No.	Description	Manufacturer	Model No.	Cal. Date	Due Date
SZ188-02	Anechoic Chamber	ETS	RFD-F/A-100	16-Jan-17	16-Jan-19
SZ061-03	Biconilog Antenna	ETS	3142C	12-Oct-16	12-Oct-17
SZ180-01	Signal Generator	R&S	SML03	12-Oct-16	12-Oct-17
SZ181-01	Amplifier	PRANA	AP32 MT215	09-Feb-17	09-Feb-18

TRF No.: EN55014-1/2_b

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Test Results

EN61000-4-3 Radiated Immunity

Frequency (MHz)	Exposed Side	Field Strength (V/m)	Result (Pursuant to EN 55014-2, Criterion A)
80 to 1000	Front	3V/m (rms)	ОК
80 to 1000	Left	3V/m (rms)	ОК
80 to 1000	Rear	3V/m (rms)	ОК
80 to 1000	Right	3V/m (rms)	ОК

Additional Information



TRF No.: EN55014-1/2_b

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EN61000-4-4 Electrical Fast Transient / Burst

Test Summary (Pursuant to EN55014-2)

Basic Standard:	IEC 61000-4-4: 2004
Port:	AC Power Lines
Required Performance Criterion:	В
Limit:	±1.0kV
Temperature:	27°C
Relative Humidity:	65.7%
Test Duration:	1 minute
Test Mode:	Charging
Test Setup:	Floor Stand
Generator Drive:	Internal
Sequence of Application:	Multiple

Used Test Equipment

Equipment No.	Equipment	Manufacturer	Model No.	Cal. Date	Due Date
SZ063-01	Compact Immunity Tester	Haefely	ECOMPACT 4	9-Feb-17	9-Feb-18

TRF No.: EN55014-1/2_b

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Test Results

EN61000-4-4 Electrical Fast Transient / Burst

Port	Level	Polarity	Result (Pursuant to EN55014-2, Criterion B)
AC Power Lines	1kV	+	ОК
AC FOWER LINES	1kV	_	ОК
DC Power Lines	0.5kV	+	N/A
	0.5kV	_	N/A
Signal Linco	0.5kV	+	N/A
Signal Lines	0.5kV	_	N/A
Control Lines	0.5kV	+	N/A
Control Lines	0.5kV	_	N/A

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Additional Information

 \boxtimes No observable change

TRF No.: EN55014-1/2_b

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Applicant: DONGGUAN CHI LOK BO TOYS CO LTD Model: 656AR

EN61000-4-5 Surge Immunity

Test Summary (Pursuant to EN55014-2)

Basic Standard:	IEC 61000-4-5: 2005			
Port:	AC Power Lines			
	Phase and Neutral	Phase and Earth	Neutral and Earth	
Limit:	5 Positive and 5	Negative Surges		
	±1kV	±2kV	±2kV	
Generator Impedance:	2ohm	12ohm	12ohm	
Required Performance Criterion:	В			
Repetition Rate:	1 minute			
Temperature:	27°C			
Relative Humidity:	65%			
Test Mode:	Charging			
Test Setup:	Floor Stand			
Surge Generator Trigger:	Internal			
Installation Condition:	Class 3: Electrical environment where cables run in parallel.			
Phase Angle:	90°, 270°			

Used Test Equipment

Equip No.	Equipment	Manufacturer	Model No.	Cal. Date	Due Date
SZ063-01	Compact Immunity Tester	Haefely	ECOMPACT 4	9-Feb-17	9-Feb-18

TRF No.: EN55014-1/2_b

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Test Results

EN61000-4-5 **Surge Immunity**

Level		Result (Pursuant to EN55014-2, Criterion B)
Between Phase and Neutral:	±1kV	ОК
Between Phase and Earth:	±2kV	N/A
Between Neutral and Earth:	±2kV	N/A



Additional Information



 \boxtimes No observable change

TRF No.: EN55014-1/2_b

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EN61000-4-6 Injected Current (0.15MHz to 230MHz)

Test Summary (Pursuant to EN55014-2)

Basic Standard:	IEC 61000-4-6: 2003 + A1: 2004 + A2: 2006
Port:	AC Power Lines
Required Performance Criterion:	А
Limit:	3.0V (rms)
Test Modulation:	1kHz, 80% AM
Frequency:	0.15MHz to 230MHz
Dwell Time:	1s
Frequency Step:	1%
Temperature:	27°C
Relative Humidity:	65%
Coupling Factor of CDN:	-1.0dB ~ -1.7dB
Test Mode:	Charging
Test Setup:	Floor Stand
Equipment Under Test (EUT):	Single Unit

Used Test Equipment

Equipment No.	Equipment	Manufacturer	Model No.	Cal. Date	Due Date
SZ180-02	Signal Generator	Aeroflex	2023A	9-Feb-17	9-Feb-18
SZ181-03	Amplifier	AR-WORLDWIDE	75A250	9-Feb-17	9-Feb-18
SZ181-03-01	Attenuator	AR-WORLDWIDE	6dB/50FH- 006-100	9-Feb-17	9-Feb-18
SZ184-01	Coupling- Decoupling Network	LUTHI	CDN L-801 M2/M3	9-Feb-17	9-Feb-18

TRF No.: EN55014-1/2_b

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Report No.: SZHH01177508-003

Applicant: DONGGUAN CHI LOK BO TOYS CO LTD Model: 656AR

Test Results

EN61000-4-6 Injected Current (0.15MHz to 230MHz)

Port	Frequency (MHz)	Level	Result (Pursuant to EN55014-2, Criterion A)
AC Power Lines	0.15 to 230	3V (rms)	ОК
DC Power Lines	0.15 to 230	1V (rms)	N/A
Signal Lines	0.15 to 230	1V (rms)	N/A
Control Lines	0.15 to 230	1V (rms)	N/A

Additional Information



TRF No.: EN55014-1/2_b

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Report No.: SZHH01177508-003

Applicant: DONGGUAN CHI LOK BO TOYS CO LTD Model: 656AR

EN61000-4-11 Voltage Dips and Interruptions

Test Summary (Pursuant to EN55014-2)

Basic Standard	EN 61000-4-11: 2004				
Port:	A.C. Power Lines				
Limit:	Test level in %UT	Duration (Periods) 50Hz 60Hz		Required Performance Criterion	
	0	0.5	0.5	С	
	40	10	12	С	
	70	25	30	С	
No. of dips/interruptions:	3				
Test Mode:	Charging				
Test Setup:	Test generator causes the interference of the EUT AC mains				

 U_T is the rated voltage for the equipment.

Used Test Equipment

Equip No.	Equipment	Manufacturer	Model No.	Cal. Date	Due Date
SZ063-01	Compact Immunity Tester	Haefely	ECOMPACT 4	9-Feb-17	9-Feb-18

TRF No.: EN55014-1/2_b

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Report No.: SZHH01177508-003

Applicant: DONGGUAN CHI LOK BO TOYS CO LTD Model: 656AR

Test Results

EN61000-4-11 Voltage Dips and Interruptions

Test condition			Result	
Test Level in %UT	Duration (Periods)		(Pursuant to EN55014-2, Criterion C)	
	50Hz	60Hz		
0	0.5	0.5	ОК	
40	10	12	ОК	
70	25	30	ОК	

Additional Information



TRF No.: EN55014-1/2_b

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External Photo





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Internal Photo



TRF No.: EN55014-1/2_b

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