



#### Test Report issued under the responsibility of:



#### **TEST REPORT**

# MINISTRY OF DEVELOPMENT, INDUSTRY AND FOREIGN TRADE NATIONAL INSTITUTE OF METROLOGY, QUALITY AND TECHNOLOGY - INMETRO Ordinance no. 430/2012

Test guidelines for determination of acoustic noise on house hold appliances and the like

Report Reference No...... GZES201002958731

Tested by (name + signature) .....: Candy Chen / Project engineer

andy then

Approved by (+ signature) .......... Sky Lin /Reviewer

Testing Laboratory ...... SGS-CSTC Standards Technical Services Co., Ltd. Shunde

Branch

Address...... Building 1, European Industrial Park, No.1, Shunhe South

Road, Wusha, Daliang, Shunde District, Foshan, Guangdong,

China

Zone, Suzhou, Jiangsu, China

Test specification:

Standard ...... INMETRO ORDINANCE NR. 430/2012

(NBR 13910-1:1997; reference IEC 60704-2-1:2000)

Non-standard test method...... None

Test Report Form No...... INMETRO ORDINANCE NR. 430/2012

This test report is issued under SGS general terms of delivery (available on request and accessible at www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional issues defined therein. Unless otherwise stated: (a) the results shown in this document refer only to the sample(s) tested and (b) such sample(s) are retained for three months. This document cannot be reproduced except in full, without prior approval of SGS.

Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law.

Test item description .....: Vacuum Cleaner

Trade Mark .....: ---

Manufacturer ...... Same as applicant

Model/Type reference...... M7

Ratings..... Yacuum cleaner: DC 14,4 V;

Factory .....: Same as applicant



Page 2 of 9 Report No.: GZES201002958731

### Summary of testing:

## Tests performed (name of test and test clause):

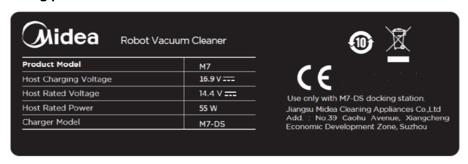
NBR 13910-1:1997; reference IEC 60704-2-1:2000

See attachment A for details.

### **Testing location:**

Building 1, European Industrial Park, No.1, Shunhe South Road, Wusha, Daliang, Shunde District, Foshan, Guangdong, China

#### Copy of marking plate:



Remark: The marking plate is only a draft artwork to show the product ratings and model No.

#### Test item particulars:

Classification of installation and use...... Free standing

Supply Connection ...... Detachable power cord fitted with plug

Possible test case verdicts:

- test case does not apply to the test object ...... N/A

- test object does meet the requirement...... P (Pass)

- test object does not meet the requirement...... F (Fail)

Testing .....:

.

Date of receipt of test item ...... 2020-10-19



Page 3 of 9 Report No.: GZES201002958731

#### General remarks:

The test results presented in this report relate only to the object tested.

This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

"(see Enclosure #)" refers to additional information appended to the report.

"(see appended table)" refers to a table appended to the report.

Throughout this report a comma is used as the decimal separator.

Throughout this report a comma is used as the decimal separator.

This document is issued by the Company subject to its General Conditions of Service, available on request or accessible at <a href="http://www.sgs.com/en/Terms-and-Conditions.aspx">http://www.sgs.com/en/Terms-and-Conditions/Terms-and-Conditions.aspx</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx">http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

#### **General product information:**

Vacuum cleaner for household and indoor use only.



Page 4 of 9

Report No.: GZES201002958731

<b>SPECI</b>	FIC ANNEX II – VACUUM CLEANER				
С	Requirement-Test	Result-Remark	Verdic		
1	OBJECTIVE				
	To establish the specific criteria to the Compliance Evaluation Program – PAC for Sound Power Certification of vacuum cleaner.		Р		
1,1	Grouping per Brand/Model or Family				
	Family made up of vacuum cleaner of the same brand, model, range voltage and power		_		
2	COMPLEMENTARY DOCUMENTS	<u> </u>			
	Complementary ducuments do not apply		N/A		
3	ACRONYSMS	.1	Р		
	No specific acronyms apply		Р		
4	DEFINITIONS		Р		
	No specific definitions apply		Р		
5	DESCRIPTIVE MEMORIAL		Р		
	It should be coded for each vacuum cleaner family and contain at least the information below:		_		
	MANUFACTURER/IMPORTER DATA		_		
	-Business name – manufacturer/importer	See page one	_		
	-Fantasy name		N/A		
	-Product brand		_		
	-Product model	See page one	_		
	-Family		N/A		
	-Manufacturer/importer Corporate Taxpayer Number	See page one	_		
	- Manufacturer/importer Address	See page one	_		
	PRODUCT DATA				
	-Product code		N/A		
	-Votlage		Р		
	-Power		Р		
	-Speed control		Р		
	-Application		Р		
	-Level of Classification of Sound Power		Р		
	-Sound Power Level in dB(A)		Р		
	ANNEXES				
	-Product drawing with external dimensions(layout)		N/A		
	-Date of document		N/A		
	-Signature of People In Charge		N/A		
	-Analyzed by OCP on:		N/A		



Page 5 of 9 Report No.: GZES201002958731

		1 age 0 01 0	10port 110 0220201002000	701		
SPECIF	IC ANNE	K II – VACUUM CLEANER				
С	Require	ement-Test	Result-Remark	Verdic		
		e of supplier's Responsible People I by the OCP on:		N/A		
6	INITIAL	INITIAL TESTS				
6.1	Defining Criteria	Defining Initial Tests, Sampling and acceptance Criteria				
6.1.1	Tests, sampling and acceptance criteria should be according to Item 6.3.1 of this RAC.			Р		
7	CONFORMITY IDENTIFITION SEAL			_		
7.1	The Conformity Identification Seal should follow the descriptions in Item 10 AND Annex A of this RAC.					
8	SOUND POWER LEVEL CLASSIFICATION			_		
8.1		The sound power level classification (NR) should be as established in Table A-E. III. 2.				
Tabela	A.E.III.2:	Classificação do nível de potência sor	nora para aspiradores de pó	_		
Clas	ssificação	Faixas de valores de níveis de potên	icia sonora em dB (A)			
	A	$NR \leq 80$				
	В	$80 < NR \le 84$				
	C	$84 < NR \le 88$				
	D	$88 < NR \le 92$				
	E	NR > 92				
				1		



**Attachment A** 

#### Page 6 of 9

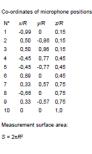
Report No.: GZES201002958731

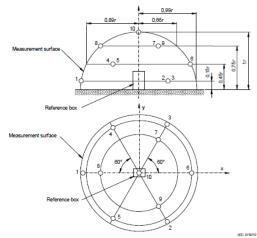
Noise test		
Standard: NBR 13910-1:1997; reference IEC 60704-2-1:2000		
Temperature:	21,6°C	
Humidity:	62,4 % RH	
Background sound pressure level:	21,7 dB (A)	

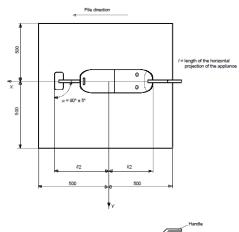
The sound pressure level was tested with directive method in semi-anechoic room.

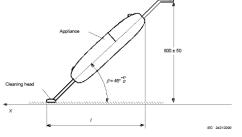
The measurement surface is a hemisphere with 10 microphone positions, as specified in Figure 4. (IEC 60704-1:2010). Details see the following figure

- 1. The appliance is placed on the center of the reflecting plane. A standard test carpet should be placed on the reflecting plane. The location according to the figure 102.
- 2. The appliance installed in accordance with the instructions and standard.
- 3. Prior to noise measurements, the appliance should be operating a long time (at least 2 h) to insure running-in.
- 4. Immediately before each series of measurements, the appliance, equipped as for the intended use, is operated during 10 min. For appliances supplied from batteries, this duration for stabilising is reduced to 2 min. The appliance operating at max. speed position.
- 5. The sound pressure level of each position (total 10 positions) was measured and recorded.
- 6. Test voltage: After a full charge









#### Note:

- 1. R=1,5 m.
- 2.  $S = 2\pi r^2 = 14,14 \text{ m}^2$
- 3. 10 key microphones were taken measurement.



Page 7 of 9

Report No.: GZES201002958731

## Test result according sample M2, sample M3 and sample M4

Microphone	Coordinate of each position (m)			Data/dB(A)		
position	Х	Υ	Z	Sample M2	Sample M3	Sample M4
1	1,485	0	0,225	48,2	47,2	45,8
2	-0,75	1,29	0,225	51,4	50,6	49,5
3	-0,75	-1,29	0,225	52,9	51,0	50,6
4	0,675	-1,155	0,675	49,3	47,9	46,8
5	0,675	1,155	0,675	49,4	47,0	46,2
6	-1,335	0	0,675	51,3	49,7	47,7
7	-0,495	-0,855	1,125	51,0	49,6	46,5
8	0,99	0	1,125	48,2	47,6	46,8
9	-0,495	0,855	1,125	50,0	48,8	48,6
10	0	0	1,5	52,9	54,4	47,3
Lpm(the averaged sound pressure level)			50,77	49,99	47,85	
LwA(sound power level)			62,27	61,50	59,35	
Lpm(arithmetic mean of 3 results)			49,54			
LwA(arithmetic	LwA(arithmetic mean of 3 results)				61,04	

#### Remark:

Compare with the background noise, the sound pressure level of the source is exceed15 dB, so no correction is made.



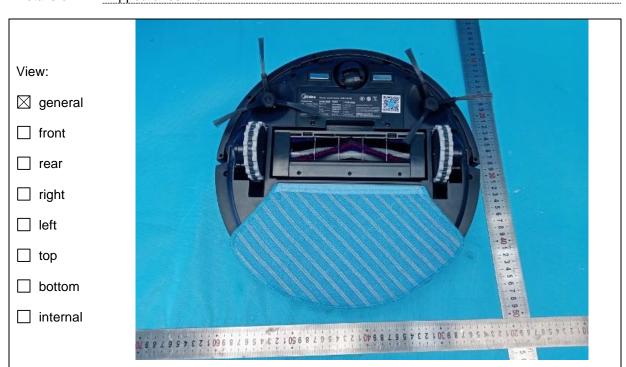
Page 8 of 9 Report No.: GZES201002958731

## Appendix I photos Details of: Appearanc

Appearance view



Details of: Appearance view





Page 9 of 9 Report No.: GZES201002958731

Details of:	Control panel view
View:    general     front     rear     right     left	Control panel view  NaviPolaris
☐ left	
bottom	
☐ internal	Cleard: Jangau Midde Cleaning Appliances Co. Ltd. GZES 201002355THS MA. 2020-10-29 WY I Viscoum Cleaner Remail: 拼列

--- End of Report ---