FCC TEST REPORT

For

He Qiuguang Learning Tab

Model Number: kimi M3

FCC ID: 2AB4TKIMIM3

Report Number : WT188004898

Test Laboratory: Shenzhen Academy of Metrology and Quality

Inspection

National Digital Electronic Product Testing Center

Site Location : NETC Building, No.4 Tongfa Rd., Xili, Nanshan,

Shenzhen, China

Tel : 0086-755-86928965

Fax : 0086-755-86009898-31396

Web : www.smq.com.cn Email : emcrf@smq.com.cn

TEST REPORT DECLARATION

Applicant : Shenzhen Koridy Educational Technology Co., Ltd.

4F,Bldg.1,Zhongyuntai Industrial Zone, Songbai Rd.,Shiyan

Address : St., Baoan Dist., Shenzhen, China

Manufacturer : Shenzhen Koridy Educational Technology Co., Ltd.

4F,Bldg.1,Zhongyuntai Industrial Zone, Songbai Rd.,Shiyan

Address : St., Baoan Dist., Shenzhen, China

EUT Description : He Qiuguang Learning Tab

Model No. : kimi M3

Trade mark : kimikids

Serial Number : /

FCC ID : 2AB4TKIMIM3

Test Standards:

FCC Part 15 Subpart B 15.107, 15.109 (2017)

The EUT described above is tested by Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory to determine the maximum emissions from the EUT. Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory is assumed full responsibility for the accuracy of the test results.

The test report is valid for above tested sample only and shall not be reproduced in part without written approval of the laboratory.

Project Engineer:

(Zhou Fangai 周芳媛)

Checked by:

(Lin Yixiang 林奕翔)

Approved by:

(Lin Bin 林斌)

Date: Sep.03,2018

Sep.03,2018

Report No.: WT188004898 Page 2/18

TABLE OF CONTENTS

TES1	REP	ORT DECLARATION	2
1.	TES	Г RESULTS SUMMARY	4
2.	GEN	ERAL INFORMATION	5
	2.1.	Report information	5
	2.2.	Laboratory Accreditation and Relationship to Customer	5
	2.3.	Measurement Uncertainty	5
3.	PRO	DUCT DESCRIPTION	6
	3.1.	EUT Description	6
	3.2.	Block Diagram of EUT Configuration	
	3.3.	Operating Condition of EUT	
	3.4.	Support Equipment List	6
	3.5.	Test Conditions	
	3.6.	Modifications	7
4.	TES	ΓEQUIPMENT USED	8
	4.1.	Test Equipment Used to Measure Conducted Disturbance	8
	4.2.	Test Equipment Used to Measure Radiated Disturbance	8
5.	CON	DUCTED DISTURBANCE TEST	9
	5.1.	Test Standard and Limit	9
	5.2.	Test Procedure	
	5.3.	Test Arrangement	9
	5.4.	Test Data	9
6.	RAD	IATION DISTURBANCE TEST	13
	6.1.	Test Standard and Limit	13
	6.2.	Test Procedure	
	6.3.	Test Arrangement	
	6.4.	Test Data	13

1. TEST RESULTS SUMMARY

Table 1 Test Results Summary

Test Items	Test Results
Conducted Disturbance (Class B)	Pass
Radiation Emission (Class B)	Pass

Remark: "N/A" means "Not applicable."

Report No.: WT188004898 Page 4/18

2. GENERAL INFORMATION

2.1.Report information

This report is not a certificate of quality; it only applies to the sample of the specific product/equipment given at the time of its testing. The results are not used to indicate or imply that they are application to the similar items. In addition, such results must not be used to indicate or imply that SMQ approves recommends or endorses the manufacture, supplier or use of such product/equipment, or that SMQ in any way guarantees the later performance of the product/equipment.

The sample/s mentioned in this report is/are supplied by Applicant, SMQ therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture or any information supplied.

Additional copies of the report are available to the Applicant at an additional fee. No third part can obtain a copy of this report through SMQ, unless the applicant has authorized SMQ in writing to do so.

2.2. Laboratory Accreditation and Relationship to Customer

The testing report were performed by the Shenzhen Academy of Metrology and quality Inspection EMC Laboratory (Guangdong EMC compliance testing center), in their facilities located at NETC Building, No.4 Tongfa Rd., Xili, Nanshan, Shenzhen, China. At the time of testing, Laboratory is accredited by the following organizations:

China National Accreditation Service for Conformity Assessment (CNAS) accredits the Laboratory for conformance to FCC standards, EMC international standards and EN standards. The Registration Number is CNAS L0579.

The Laboratory is Accredited Testing Laboratory of FCC with Designation number CN1165 and Site registration number 582918.

The Laboratory is registered to perform emission tests with Industry Canada (IC), and the registration number is 11177A-1 11177A-2.

TUV Rhineland accredits the Laboratory for conformance to IEC and EN standards, the registration number is E2024086Z02.

2.3. Measurement Uncertainty

Conducted Emission 9kHz~30MHz 3.5dB

Radiated Emission 30MHz~1000MHz 4.5dB 1GHz~18GHz 4.6dB

Report No.: WT188004898 Page 5/18

3. PRODUCT DESCRIPTION

3.1.EUT Description

Manufacturer : Shenzhen Koridy Educational Technology Co., Ltd.

Description : He Qiuguang Learning Tab

Model Number : kimi M3

Input : 100~240V~ 50/60Hz 0.5A AC Adaptor

Antenna Designation : Integrated Antenna

Operating Voltage : DC 3.8V

Rating input : 3.5V(Low)/3.8V(Normal)/4.2V(Max)

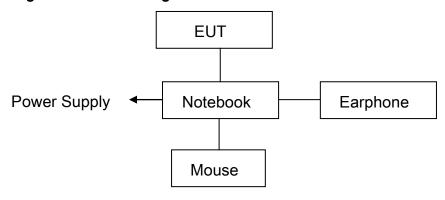
Software Version : M3_0001.10V1.0.0.SM01.20180824.10

Hardware Version : KM2_V1.0_20171214

Test Voltage : AC 120V/60Hz

Remark:--

3.2. Block Diagram of EUT Configuration



Test mode 1

3.3. Operating Condition of EUT

Test mode 1: Data Transmission

3.4. Support Equipment List

Report No.: WT188004898 Page 6/18

Table 2 Support Equipment List

Name	Model No	S/N	Manufacturer		
Notebook	P35G		DELL		
Mouse	MSU1465		HP		
Earphone					
Battery for EUT	EL-32105110PV		SHENZHEN RUILONG NEW		
ballery for EUT	EL-32103110PV		ENERGY TENCHNOLOGY CO.,LTD		
USB for EUT					

3.5. Test Conditions

Date of test: Aug.18, 2018-Aug.25, 2018 Date of EUT Receive: Aug.16, 2018

Temperature: 30-75

Relative Humidity: 25-60%

3.6. Modifications

No modification was made.

Report No.: WT188004898 Page 7/18

4. TEST EQUIPMENT USED

4.1.Test Equipment Used to Measure Conducted Disturbance

Table 3 Conducted Disturbance Test Equipment

No. Equipment		Manufacturer	Model No.	LAST CALIB	Period
SB3319	EMI Test Receiver	R&S	ESCS30	Nov.28,2017	1 Year
SB4357	AMN	R&S	ENV216	Sep.22,2017	1 Year

4.2. Test Equipment Used to Measure Radiated Disturbance

Table 4 Radiated Disturbance Test Equipment

. date . date . date date date . date date date date . date date date .									
No.	Equipment	Equipment Manufacturer Model No.		LAST CALIB	Period				
SB3436	EMI Test Receiver	R&S ESI26		Nov.28,2017	1 Year				
SB3955	Trilog Broadband Antenna (30M-3GHz)	Schwarzbeck	VULB9163	Mar.05,2018	1 Year				
SB9422/16	Double-Ridged Waveguide Horn Antenna (1G~18GHz)	R&S	HF907	Mar.08,2018	1 Year				
SB8501/17	Preamplifier	Rohde & Schwarz	SCU-18	Mar.05, 2018	1 Year				
SB8501/16	Preamplifier	Rohde & Schwarz	SCU-26	Mar.05, 2018	1 Year				
SB9059	Preamplifier	Rohde & Schwarz	SCU-40	Sep.13,2017	1 Year				
SB8501/11	Horn Antenna	Rohde & Schwarz	3160-09	Mar.21,2017	3 Years				
SB8501/12	Horn Antenna	Rohde & Schwarz	3160-10	Mar.21,2017	3 Years				

Report No.: WT188004898 Page 8/18

5. CONDUCTED DISTURBANCE TEST

5.1.Test Standard and Limit

5.1.1.Test Standard

FCC Part 15: Section 15.107

5.1.2.Test Limit

Table 5 Conducted Disturbance Test Limit (Class B)

Frec	u one	21/	Power Port limits (dBμV)	
Frequency			Quasi-peak	Average
0.15MHz	~	0.5MHz	66~56*	56~46*
0.5MHz	0.5MHz ~ 5 MHz		56	46
5 MHz	0.02		60	50

5.2. Test Procedure

The EUT is put on a table of non-conducting material that is 80cm high. The vertical conducting wall of shielding is located 40cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI test receiver (R&S Test Receiver ESCS30) is used to test the emissions form both sides of AC line. The bandwidth of EMI test receiver is set at 9kHz.

5.3. Test Arrangement

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application. The detailed information refers to test picture.

5.4. Test Data

The emissions don't show in below are too low against the (L - 20 dB), where L is the limit level in logarithmic units.

Report No.: WT188004898 Page 9/18

Table 6 Conducted Disturbance Test Data at mains Port

Model No.: kimi M3

Test mode: Test Mode 1

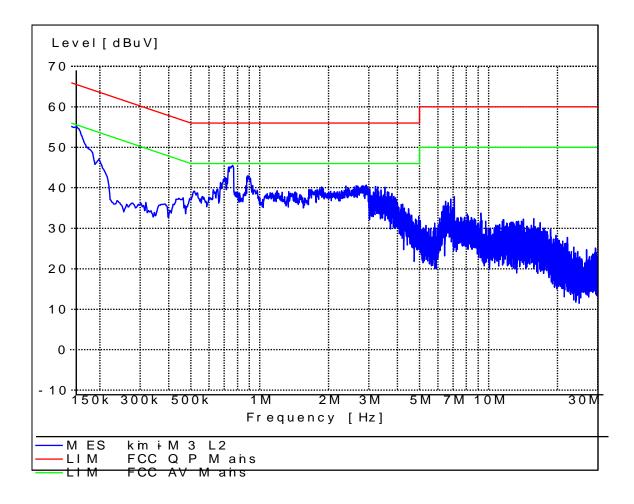
Test mode: Test Mode 1									
	Frequency Correction		Quasi-Peak				Average		
	(MHz)	Factor (dB)	Reading (dBμV)	Emission Level (dBµV)	Limits (dBμV)	Reading (dBμV)	Emission Level (dB _µ V)	Limits (dBμV)	
	0.150	9.7	41.8	51.5	66	23.7	33.4	56	
	0.210	9.7	40.2	49.9	63.2	16.0	25.7	53.2	
Line	0.518	9.8	24.9	34.7	56	13.4	23.2	46	
Line	0.706	9.8	26.8	36.6	56	14.3	24.1	46	
	0.762	9.8	32.4	42.2	56	14.4	24.2	46	
	0.894	9.8	27.1	36.9	56	10.9	20.7	46	
	0.158	9.7	38.0	47.7	65.6	21.8	31.5	55.6	
	0.518	9.8	25.4	35.2	56	12.4	22.2	46	
Noutral	0.734	9.8	26.1	35.9	56	10.5	20.3	46	
Neutral	0.770	9.8	28.7	38.5	56	16.6	26.4	46	
	0.990	9.8	26.4	36.2	56	17.4	27.2	46	
	2.830	9.9	25.6	35.5	56	15.6	25.5	46	

Report No.: WT188004898 Page 10/18

EUT: kimi M3 Operating Condition: Test mode 1

Test Specification: L

Comment: AC 120V/60Hz

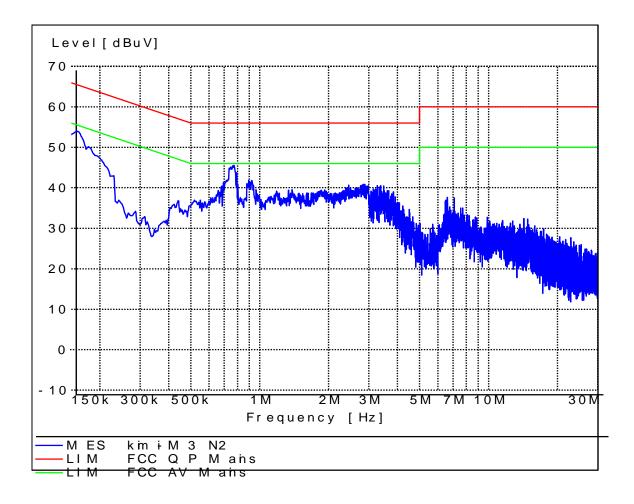


Report No.: WT188004898 Page 11/18

EUT: kimi M3 Operating Condition: Test mode 1

Test Specification: N

Comment: AC 120V/60Hz



Report No.: WT188004898 Page 12/18

6. RADIATION DISTURBANCE TEST

6.1.Test Standard and Limit

6.1.1.Test Standard

FCC Part 15: Section 15.109

6.1.2.Test Limit

Table 7 Radiation Disturbance Test Limit (Class B)

	Class B Radiated Limit (dBµV/m)					
Frequency (MHz)	Quasi-peak					
30 to 88	40					
88 to 216	43.5					
216 to 960	46					
960 to 1000	54					

Table 8 Radiation Disturbance Test Limit (Class B) (Above 1G)

	Class B Radiated Limit (dBµV/m)				
Frequency (MHz)	Linear Average Detector	Peak Detector			
> 1000	54	74			

^{*} The lower limit shall apply at the transition frequency.

6.2. Test Procedure

The EUT is placed on a turntable, which is 0.8 meter above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set **3 meters** away from the receiving antenna, which is mounted on an antenna tower. The antenna can move up and down between 1 to 4 meters to find out the maximum emission level. Broadband antenna is used as a receiving antenna. Both horizontal and vertical polarization of the antenna is set on test. Set RBW=100 kHz for f < 1 GHz; VBW >= RBW; Detector function = peak; Set RBW = 1 MHz, VBW= 3MHz for f > 1 GHz for peak measurement.

6.3. Test Arrangement

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application. The detailed information refers to test picture.

6.4. Test Data

The emissions don't show in below are too low against the (L - 20 dB), where L is the limit level in logarithmic units.

Report No.: WT188004898 Page 13/18

^{*} The test distance is 3m.

Table 9 Radiated Disturbance Test Data

Table 9 Radiated Disturbance Test Data									
Frequency (MHz)	Cable Loss +preamp(dB)	Antenna Factor (dB)	Readings (dBµV/m)	Level (dBµV/m)	Polarity (H/V)	Turntable Angle(de g)	Antenna Height(m)	Limits(dBµV/m)	Margin (dB)
99.979	1.1	12.8	11.4	25.3	Н	10	1.0	43.5	18.2
153.371	1.4	8.3	15.0	24.7	Н	30	1.0	43.5	18.8
174.217	1.5	9.0	20.0	30.5	Н	310	1.0	43.5	13.0
230.221	1.7	11.2	20.3	33.2	Н	0	1.0	46.0	12.8
267.331	2.0	12.1	25.4	39.5	Н	30	1.0	46.0	6.5
315.711	2.1	13.1	20.0	35.2	Н	40	1.0	46.0	10.8
30.241	0.6	12.3	11.1	24.0	V	10	1.0	40	16.0
99.876	1.1	12.8	9.3	23.2	V	30	1.0	43.5	20.3
152.227	1.4	8.3	20.7	30.4	V	350	1.0	43.5	13.1
382.471	2.4	14.6	14.2	31.2	V	0	1.0	46.0	14.8
458.397	2.6	15.6	16.2	34.4	V	30	1.0	46.0	11.6
598.366	3.1	16.6	13.4	33.1	V	10	1.0	46.0	12.9
				PK					
1170.317	-41.0	24.4	58.8	42.2	V	10	1.0	74	31.8
1441.271	-40.8	25.1	57.1	41.4	V	30	1.0	74	32.6
1592.766	-40.6	25.1	71.2	55.7	V	30	1.0	74	18.3
1971.277	-40.4	26.9	59.2	45.7	V	350	1.0	74	28.3
2362.276	-40.3	28.3	61.9	49.9	V	50	1.0	74	24.1
3195.366	-39.0	30.4	54.2	45.6	V	10	1.0	74	28.4
1020.300	-41.1	24.4	56.3	39.6	Н	30	1.0	74	34.4
1092.346	-41.0	24.4	56.5	39.9	Н	350	1.0	74	34.1
1260.511	-41.0	24.3	55.7	39.0	Н	10	1.0	74	35.0
1971.670	-40.4	26.9	57.0	43.5	Н	30	1.0	74	30.5
2175.367	-40.2	28.6	53.7	42.1	Н	310	1.0	74	31.9
2272.545	-40.2	28.3	56.2	44.3	Н	10	1.0	74	29.7
				AV					
1170.317	-41.0	24.4	39.2	22.6	V	10	1.0	54	31.4
1441.271	-40.8	25.1	39.4	23.7	V	30	1.0	54	30.3
1592.766	-40.6	25.1	53.4	37.9	V	30	1.0	54	16.1
1971.277	-40.4	26.9	37.1	23.6	V	350	1.0	54	30.4
2362.276	-40.3	28.3	39.5	27.5	V	50	1.0	54	26.5
3195.366	-39.0	30.4	33.4	24.8	V	10	1.0	54	29.2
1020.300	-41.1	24.4	39.1	22.4	Н	30	1.0	54	31.6
1092.346	-41.0	24.4	39.8	23.2	Н	350	1.0	54	30.8
1260.511	-41.0	24.3	39.4	22.7	Н	10	1.0	54	31.3
1971.670	-40.4	26.9	39.7	26.2	Н	30	1.0	54	27.8
2175.367	-40.2	28.6	36.2	24.6	Н	310	1.0	54	29.4
2272.545	-40.2	28.3	36.4	24.5	Н	10	1.0	54	29.5
Domork: I	Emission la	(al/dD:.\/)	Dood Va	اريم (ما الارماريا	//	Antonna	Footow/s	ID). Cal	عوم ا ماد

Remark: Emission level(dBuV)=Read Value(dBuV/m) + Antenna Factor(dB)+ Cable Loss +preamp(dB)

Report No.: WT188004898 Page 14/18

EUT Information

EUT Model Name: kimi M3
Operation mode: Test Mode 1

Test Voltage: Comment:

Common Information

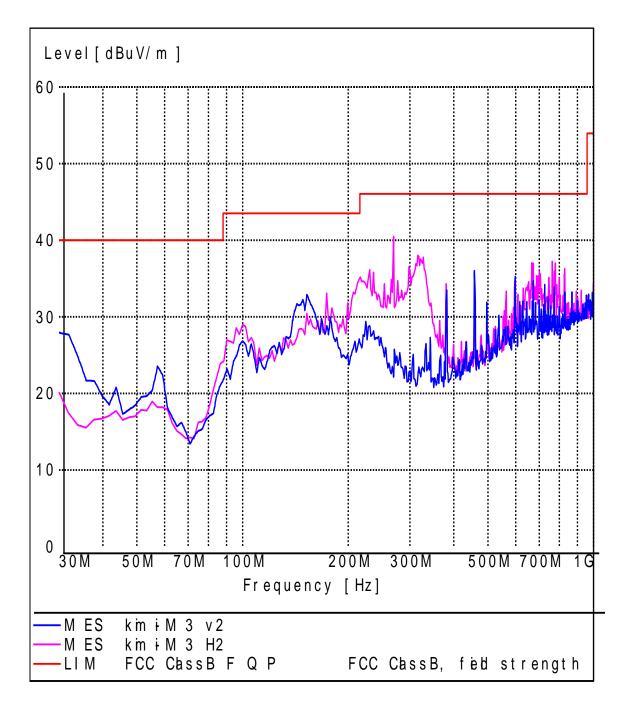
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Horizontal & Vertical

Operator Name:

Comment:

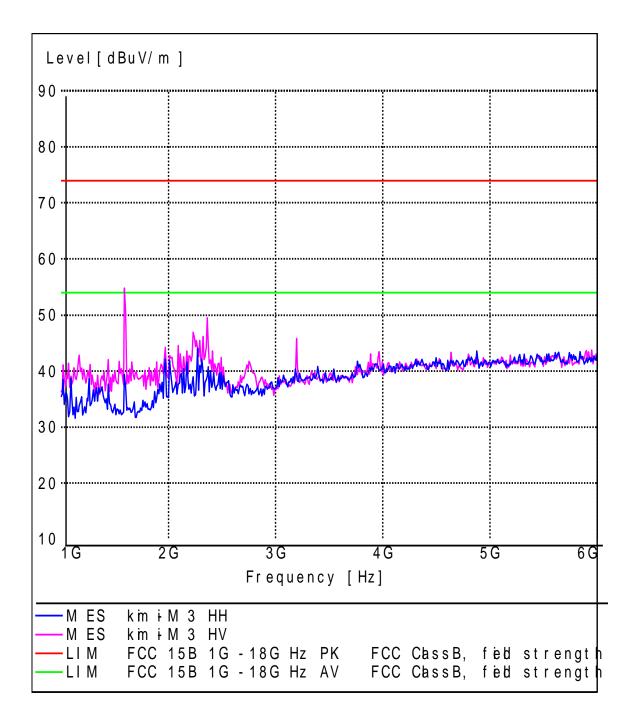


Report No.: WT188004898 Page 15/18

EUT Name: kimi M3 Operating Condition: Test Mode 1

Test site: SMQ NETC EMC Lab.3m Chamber

Antenna Position: Vertical & Horizontal Comment: AC 120V/60Hz



Report No.: WT188004898 Page 16/18

EUT Information

EUT Model name: MW41NF Operater Mode: Test Mode 1

Comment:

Common Information

Test Description: SMQ NETC EMC Lab.

Customer

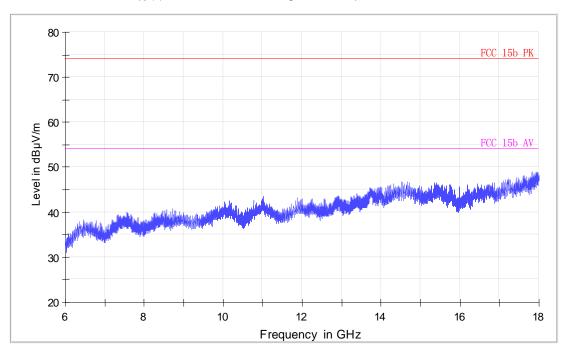
Antenna Position: Horizontal

Operator Name:

Comment1: AC 120V/60Hz

Comment2:

Copy (2) of FCC Electric Field Strength 1-18GHz operate on 2.4GHz



Report No.: WT188004898 Page 17/18

EUT Information

EUT Model name: MW41NF Operater Mode: Test Mode 1

Comment:

Common Information

Test Description: SMQ NETC EMC Lab.

Customer

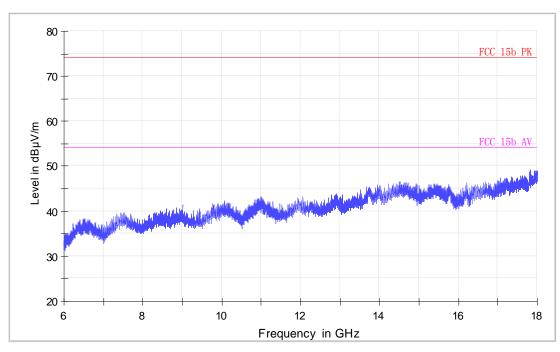
Antenna Position: Vertical

Operator Name:

Comment1: AC 120V/60Hz

Comment2:

Copy (2) of FCC Electric Field Strength 1-18GHz operate on 2.4GHz



Report No.: WT188004898 Page 18/18