复达检测集团
FUDA ANALYTICAL TESTING GROUP

Test Report

Sample Name	**7.0 Terahertz blower（FKY00098）**
Client	**Dongguan Kangya Technology Co., Ltd.**
Report Number	**FT-20220504008-En**

Guangzhou Fuda Testing Technology Research Institute

Address：1004, Zone A, Building 1, Hailunburg Creative Park, Shawan Town, Panyu District, Guangzhou, China. Service Hotline：021-61996230 E-mail:fudan.edu@fudanfuxin.com

Sample Name	7.0 Terahertz blower（FKY00098）		
Sample Quantity	1	Sample Batch	/
Sample Status	intact	Sample Number	FT220504008
Client	Dongguan Kangya Technology Co., Ltd.		
Communication Information of Client	Address No. 7, Longtian Road, Qinghutou, Tangxia Town, Dongguan City		
Test Category	Commission Test		
Sample Arrival Date	2022.05.09		
Test Cycle	2022.05.09—2022.05.19		
Standards and Methods	Please refer to next page(s).		
Test Results	This report only provides the measured values. See the summary page of test results in this report for details.		
Remarks	/		

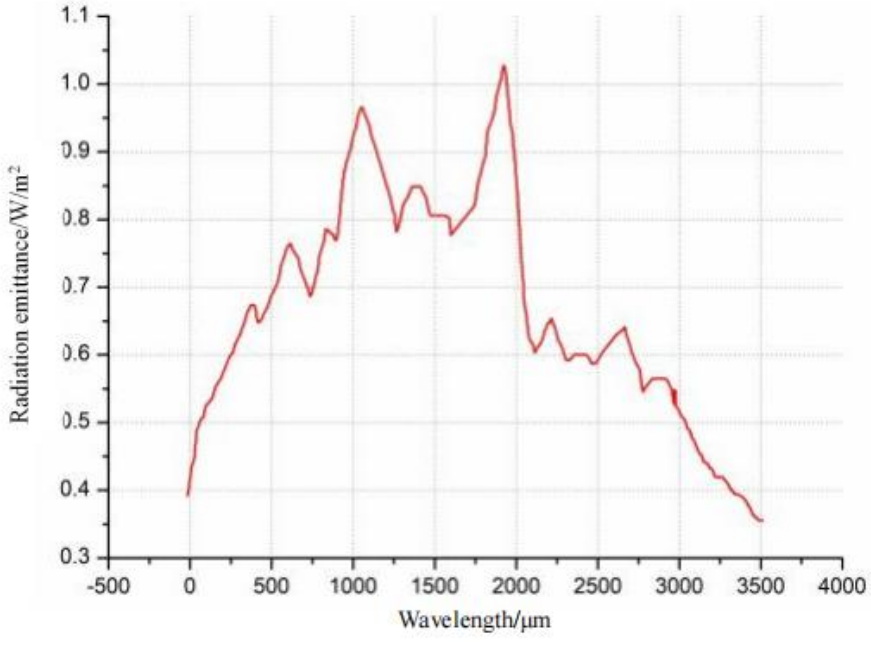
Drafter：_____ Signer：_____

Reviewer：张志新 Issued Date：2022-05-21

Test Result(s):

Sample name	Test item	Test Result	Unit	Test Method
7.0 Terahertz blower （FKY00098）	Radiation wavelength range (radiation energy spectrum) (peak) 0.75μm-3μm	0.339	W/m²	GB/T 7287-2008 B
	Radiation wavelength range (radiation energy spectrum) (peak) 3μm-10μm	0.412	W/m²	
	Radiation wavelength range (radiation energy spectrum) (peak) 10μm-30μm	0.530	W/m²	
	Terahertz radiation wavelength range (radiation energy spectrum curve) (peak) 30μm-1000μm	0.988	W/m²	
	Terahertz radiation wavelength range (radiation energy spectrum curve) (peak) 1000μm-3000μm	1.062	W/m²	
	Terahertz radiation wavelength range (radiation energy spectrum curve) (peak) 3000μm-1000μm	0.308	W/m²	

Test environmental conditions: temperature 23±3℃, humidity 55±5% RH

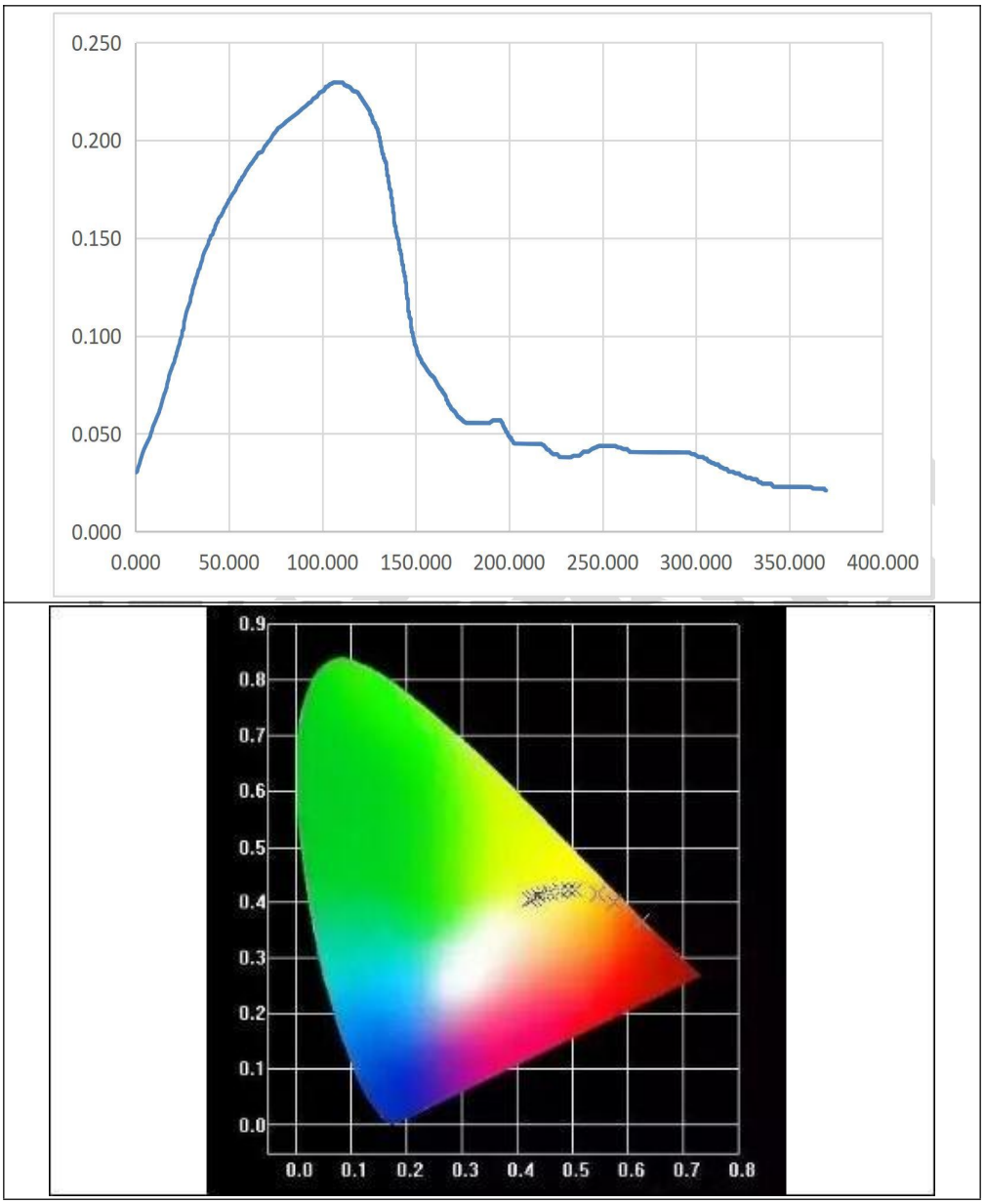


Radiation spectrum curve

Spectral distribution：

Laboratory test conditions: temperature 25 ± 3℃, humidity 55 ± 3% RH

Test range: 0mm ~ 3mm / 30 ~ 3000 μ m



Color parameter:

Chromaticity coordinates：x=0.3572 y=0.2022(duv=1.726e-03）

Main wavelength：λd=559.0nm Color purity：Pur=6.0%

Color ratio：R=23.1% G=54.2% B=3.0%

Peak wavelength：λp=418.0nm Half width：Δλp=26.8nm

Color rendering index：Ra=65.8

R1=71、R2=72、R3=71、R4=71、R5=71、R6=63、R7=76、R8=65、R9 =-3、R10=35、R11=71、 R12=41、R13=65、R14=77、R15=73

Photometric parameters：

Luminous fluxΦ：8.558 lm Radiant fluxΦe：1.725 W Light effect：0.03lm/W

Electrical parameters：

Voltage U=220.0V Electric current I=5.2000A Power P=1210.01W

Power factor PF=1.2014

Wavelength coordinates：x=0.21311 y=0.2998(duv=3.03e-03）

Main wavelength：^d=400-1200μm Terahertz wavelength：30~1200μm=20.12%

Test equipment:

Test equipment	Equipment brand	Equipment model
Infrared radiation detector	Shenzhen wanyitong	JPS-5X
Terahertz radiation detector	CETC instruments	3643X

The End of the Report

Sample Photo:

Additional Instructions of the Report

1. The Report would be invalid without “Special Seal for Report of Guangzhou Fuda Testing Technology Research Institute”.
2. Any institution is not permitted to duplicate the report, if needed please submit a formal application.
3. Any objection to the report should be interposed in 10 days from the date of report is issued. Overdue would not be admissible.
4. The report is only responsible for the sample provided by the applicant. The sample will be kept for30 days after the date of report is issued.
5. The company shall perform the duty of confidentiality to the technical documents, report, contract documents and other business secrets of the applicant.
6. When the report is not stamped with the qualification identification mark (CMA), it indicates that the relevant projects have not obtained the qualification identification. The data and results are only used for scientific research, teaching and internal quality control, not for social justice. The Chinese version shall prevail.

CERTIFICATE

Anbotek
Product Safety

CERTIFICATE

Of Conformity
Low Voltage Directive 2014/35/EU

Registration No.: AT18250SC200351

Report No.: 18250SC20035101

Applicant	:	**Dongguan Kangya Technology Co., Ltd.** Room 501, Building 2, No. 7, Longtian Road, Qinghutou, Tangxia Town, Dongguan City, Guangdong Province	
Product	:	**Terahertz blower**	
Identification	**Model No.**	:	**FKY00098, FKY**
	Trade Mark	:	**FKY**
	Rating	:	**220-240V~, 50/60Hz, 1000W**
Test Standards	:	**EN 60335-1:2012+A11:2014+A13:2017 +A1:2019+A2:2019+A14:2019+A15:2021 EN 62233:2008**	

The certificate of conformity is based on an evaluation of a sample of the above mentioned product. Technical report and documentation are at the applicant's disposal. This is to certify that the tested sample is in conformity with Low Voltage Directive 2014/35/EU relating to electrical equipment designed for use within certain voltage limits. The certificate does not imply assessment of the series-production of the product. The applicant of the certificate is authorized to use this certificate in connection with EU declaration of conformity specified in Article 15 and Annex IV of the Directive.

Certified by

Anbotek (SZ) Compliance Laboratory Limited
Anbotek Product Safety
* Approved *

Jun. 10, 2022
Date

Jeff Zhu

CE **The CE Marking may only be used if all relevant and effective EU Directives are complied with** CE

Shenzhen Anbotek Compliance Laboratory Limited
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CERTIFICATE

Anbotek
Product Safety

CERTIFICATE

Of Conformity
EU Council Directive 2014/30/EU
Electromagnetic Compatibility

Registration No.: AT18250EC200426

Report No.: 18250EC20042601

Applicant	:	**Dongguan Kangya Technology Co., Ltd.**		
		Room 501, Building 2, No. 7, Longtian Road, Qinghutou, Tangxia Town, Dongguan City, Guangdong Province		
Product	:	**Terahertz blower**		
Identification	:	**Model No.**	:	**FKY00098, FKY**
		Trade Mark	:	**FKY**
		Rating	:	**220-240V~, 50/60Hz, 1000W**
Test Standards	:	**EN IEC 55014-1: 2021** **EN IEC 61000-3-2: 2019+A1: 2021** **EN 61000-3-3: 2013+A2:2021** **EN IEC 55014-2: 2021**		

The certificate of conformity is based on an evaluation of a sample of the above-mentioned product. Technical report and documentation are at the applicant's disposal. This is to certify that the tested sample is in conformity with all provisions of Annex II of Council Directive 2014/30/EU, in its latest amended version, referred to EMC Directive. The certificate does not imply assessment of the production and does not permit the use of Lab's logo. The applicant of the certificate is authorized to use this certificate in connection with EU declaration of conformity to Article 15 of the Directive.

Anbotek (SZ) Compliance Laboratory Limited
Anbotek Product Safety
* Approved *

Certified by

KingKong Jin

Jun. 10, 2022
Date

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Product Safety

CERTIFICATE

Of Conformity
EU Council Directive 2014/30/EU
Electromagnetic Compatibility

Registration No.: AT18250EC200426

Report No.: 18250EC20042601

Applicant	:	**Dongguan Kangya Technology Co., Ltd.**		
		Room 501, Building 2, No. 7, Longtian Road, Qinghutou, Tangxia Town, Dongguan City, Guangdong Province		
Product	:	**Terahertz blower**		
Identification	:	**Model No.**	:	**FKY00098, FKY**
		Trade Mark	:	**FKY**
		Rating	:	**220-240V~, 50/60Hz, 1000W**
Test Standards	:	**EN IEC 55014-1: 2021** **EN IEC 61000-3-2: 2019+A1: 2021** **EN 61000-3-3: 2013+A2:2021** **EN IEC 55014-2: 2021**		

The certificate of conformity is based on an evaluation of a sample of the above-mentioned product. Technical report and documentation are at the applicant's disposal. This is to certify that the tested sample is in conformity with all provisions of Annex II of Council Directive 2014/30/EU, in its latest amended version, referred to EMC Directive. The certificate does not imply assessment of the production and does not permit the use of Lab's logo. The applicant of the certificate is authorized to use this certificate in connection with EU declaration of conformity to Article 15 of the Directive.

Anbotek (SZ) Compliance Laboratory Limited
Anbotek Product Safety
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Certified by

KingKong Jin

Jun. 10, 2022
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Tel: (86)755-26066440 Fax: (86)755-26014772
Http://www.anbotek.com Email: service@anbotek.com

EMC Test Report

Client Name	:	Dongguan Kangya Technology Co., Ltd.
Address	:	Room 501, Building 2, No. 7, Longtian Road, Qinghutou, Tangxia Town, Dongguan City, Guangdong Province
Product Name	:	Terahertz blower
Date	:	Jun. 10, 2022

Shenzhen Anbotek Compliance Laboratory Limited

Contents

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Hotline 400-003-0500 www.anbotek.com

TEST REPORT

Applicant	:	Dongguan Kangya Technology Co., Ltd.
Manufacturer	:	Dongguan Kangya Technology Co., Ltd.
Product Name	:	Terahertz blower
Model No.	:	FKY00098, FKY
Trade Mark	:	FKY
Rating(s)	:	220-240V~, 50/60Hz, 1000W
Test Standard(s)	:	**EN IEC 55014-1: 2021; EN IEC 61000-3-2: 2019+A1: 2021; EN 61000-3-3: 2013+A1:2021; EN IEC 55014-2: 2021 (IEC 61000-4-2; IEC 61000-4-4; IEC 61000-4-5; IEC 61000-4-6; IEC 61000-4-11)**

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited To determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. This report shows the EUT to be technically compliant with the EN IEC 55014-1, EN IEC 61000-3-2, EN 61000-3-3 and EN IEC 55014-2 requirements.The test results are contained in this report and Shenzhen Anbotek Compliance Laboratory Limited Is assumed full responsibility for the accuracy and completeness of these tests.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited

Date of Receipt: May 17, 2022

Date of Test: May 17~May 24, 2022

Prepared By: Yee Huang

(Yee Huang)

Approved & Authorized Signer: KingKong Jin

(KingKong Jin)

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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Hotline 400-003-0500
www.anbotek.com

1. General Information

1.1. Client Information

Applicant	:	Dongguan Kangya Technology Co., Ltd.
Address	:	Room 501, Building 2, No. 7, Longtian Road, Qinghutou, Tangxia Town, Dongguan City, Guangdong Province
Manufacturer	:	Dongguan Kangya Technology Co., Ltd.
Address	:	Room 501, Building 2, No. 7, Longtian Road, Qinghutou, Tangxia Town, Dongguan City, Guangdong Province
Factory	:	Dongguan Kangya Technology Co., Ltd.
Address	:	Room 501, Building 2, No. 7, Longtian Road, Qinghutou, Tangxia Town, Dongguan City, Guangdong Province

1.2. Description of Device (EUT)

Product Name	:	Terahertz blower	
Model No.	:	FKY00098, FKY (Note: All samples are the same except the model number & appearance, so we prepare “FKY00098” for test only.)	
Trade Mark	:	FKY	
Test Power Supply	:	AC 230V, 50Hz	
Test Sample No.	:	1-1-1	
Product Description	:	Adapter:	N/A
Remark: (1) For a more detailed features description, please refer to the manufacturer’s specifications or the User’s Manual.			

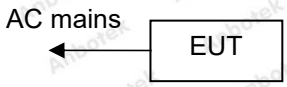
1.3. Auxiliary Equipment Used During Test

N.A.	:	

1.4. Description of Test Mode

Pretest Mode	Description
Mode 1	On

For Mode 1 Block Diagram of Test Setup



1.5. Test Summary

Test Items	Test Mode	Status
Power Line Conducted Emission Test (150kHz To 30MHz)	Mode 1	P
Disturbance Power Test (30MHz To 300MHz)	Mode 1	P
Radiated Emission Test (30MHz To 1000MHz)	/	N
Harmonic Current Test	Mode 1	P
Voltage Fluctuations and Flicker Test	Mode 1	P
Electrostatic Discharge immunity Test	Mode 1	P
RF Field Strength susceptibility Test	/	N
Electrical Fast Transient/Burst Immunity Test	Mode 1	P
Surge Immunity Test	Mode 1	P
Injected Currents Susceptibility Test	Mode 1	P
Voltage Dips and Interruptions Test	Mode 1	P
P) Indicates “PASS”. N) Indicates “Not applicable”.		

Note: The EUT is Category II Products, No Requirement for R/S Testing

1.6. Test Equipment List

Conducted Emission Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	Oct. 22, 2021	1 Year
2.	Three Phase V-type Artificial Power Network	CYBERTEK	EM5040DT	E215040DT001	Jul. 05, 2021	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Oct. 22, 2021	1 Year
4.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Oct. 22, 2021	1 Year
5.	Software Name EZ-EMC	Ferrari Technology	ANB-03A	N/A	N/A	N/A

Power Clamp Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Absorbing Clamp	FCC	F-201-23MM	08166	Oct. 22, 2021	1 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Oct. 22, 2021	1 Year
3.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Oct. 22, 2021	1 Year
4.	Software Name EZ-EMC	Ferrari Technology	ANB-03A	N/A	N/A	N/A

Harmonic and Flicker Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Programmable AC Power source	IVYTECH	APS-5005A	632734	Oct. 22, 2021	1 Year
2.	Harmonic and Flicker Analyzer	EMC-PARTNER	HMONICS 1000-1P	164	Oct. 22, 2021	1 Year
3.	Harmonics-1000	N/A	Ed.3.0+4.0	N.A	N/A	N/A

Electrostatic Discharge Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	ESD Simulators	emtest	ESD NX30.1	11936	Mar. 25, 2022	1 Year

Electrical Fast Transient/Burst Immunity Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Surge Generator	TESEQ	NSG 3060	1480	Oct. 22, 2021	1 Year
2.	CDN	TESEQ	CDN 3061	1408	Oct. 22, 2021	1 Year
3.	EFT-Clamp	PRIMA	EFT-Clamp	/	Oct. 22, 2021	1 Year

Surge Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Combined Wave Lightning Surge Simulator	3Ctest	CCS600	ES3771702	Jul. 05, 2021	1 Year
2.	Three Phase Power Coupling Network	3Ctest	SEPN69100T	ES0801757	Jul. 05, 2021	1 Year
3.	Telecom port surge generator	PMI	TW101	190411	May 13, 2022	1 Year

Injected Currents Susceptibility Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	C/S Conducted Immunity Test System	FRANKONIA	CIT-10	126A1196/2012	Oct. 22, 2021	1 Year
2.	CDN	FRANKONIA	CDN - M2+M3	A2210178/2012	Oct. 22, 2021	1 Year
3.	6dB Attenuator	FRANKONIA	DAM 26W	1172202	Oct. 22, 2021	1 Year
4.	CIT-10	FRANKONIA	Version1.1.7	N/A	N/A	N/A
5.	EM-Clamp	FRANKONIA	EMCL-20	18101728-0103	May 17,2022	1 Year

Voltage Dips and Interruptions Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	CYCLE SAG Simulator	PRIMA	DRP61011AG	PR12046234	Oct. 22, 2021	1 Year

1.7. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 184111

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 184111.

ISED-Registration No.: 8058A

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.
1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518128

1.8. EMS Performance Criteria

√ A: Normal performance within the specification limits

√ B: Temporary degradation or loss of function or performance which is self-recoverable

√ C: Temporary degradation or loss of function or performance which requires operator intervention or system reset

√ D: Degradation or loss of function which is not recoverable due to damage of equipment (components) or software, or loss of data

Note: The manufacturer's specification may define effects on the EUT which may be considered insignificant, and therefore acceptable.

This classification may be used as a guide in formulating performance criteria, by committees responsible for generic, product and product-family standards, or as a framework for the agreement on performance criteria between the manufacturer and the purchaser, for example where no suitable generic, product or product-family standard exists.

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Hotline 400-003-0500 www.anbotek.com

2. Power Line Conducted Emission Test

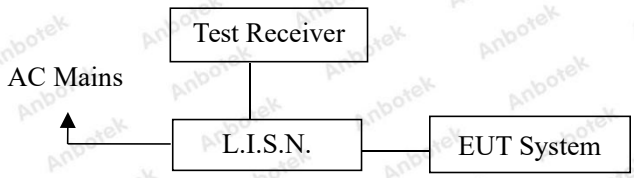
2.1. Test Standard and Limit

Test Standard	EN IEC 55014-1

Limits for conducted emissions

Test Limit	Frequency (MHz)	At mains terminals (dBμV)	
		Quasi-peak Level	Average Level
	0.15 ~ 0.50	66.0 ~ 56.0*	59.0 ~ 46.0*
	0.50 ~ 5.00	56.0	46.0
	5.00 ~ 30.00	60.0	50.0
Remark: (1) The lower limit shall apply at the transition frequencies. (2) The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.			

2.2. Test Setup



2.3. EUT Configuration on Measurement

The following equipments are installed on Conducted Emission Measurement to meet EN IEC 55014-1 requirements and operating in a manner which tends to maximize its emission characteristics in a normal application.

2.4. Operating Condition of EUT

2.4.1. Setup the EUT as shown in Section 2.2.

2.4.2. Turn on the power of all equipments.

2.4.3. Let the EUT work in test mode and measure it.

2.5. Test Procedure

The EUT is put on the plane 0.8 m high above the ground by insulating support and connected to the AC mains through Line Impedance Stability Network(L.I.S.N). This provided a 50ohm coupling impedance for the tested equipments. Both sides of AC line are investigated to find out the maximum conducted emission according to the EN IEC 55014-1 regulations during conducted emission measurement.

The bandwidth of the field strength meter (R&S Test Receiver ESCI) is set at 9kHz in 150kHz~30MHz.

The frequency range from 150kHz to 30MHz is investigated for AC mains.

All the test results are listed in Section 2.6.

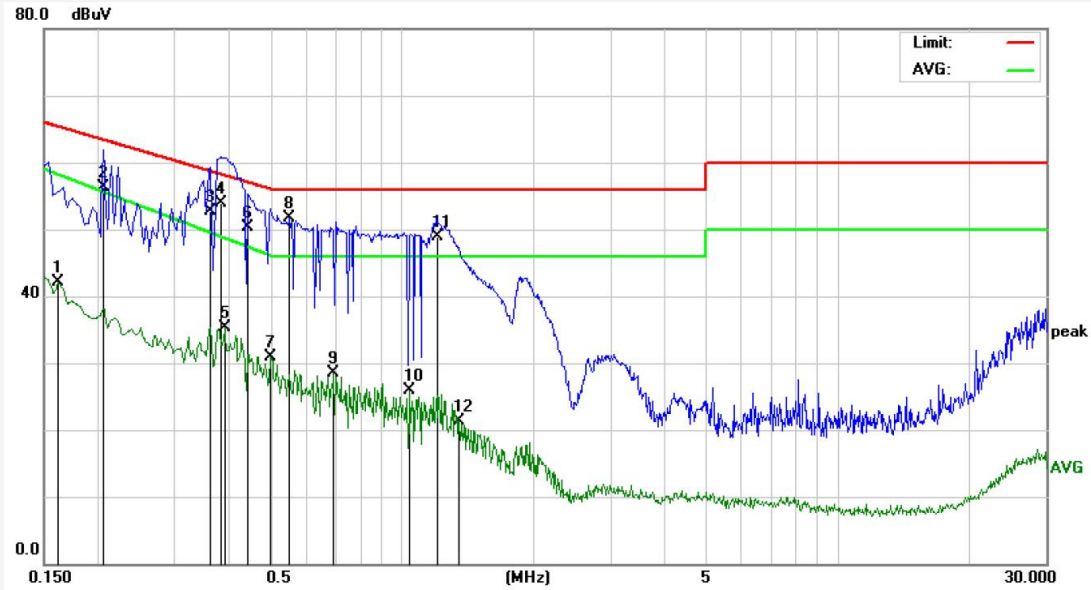
2.6. Test Results

PASS

The test curves are shown in the following pages.

Conducted Emission Test Data

Test Site:	1# Shielded Room
Test Specification:	AC 230V, 50Hz
Comment:	Live Line
	Temp.: 23.9℃ Hum.: 47%

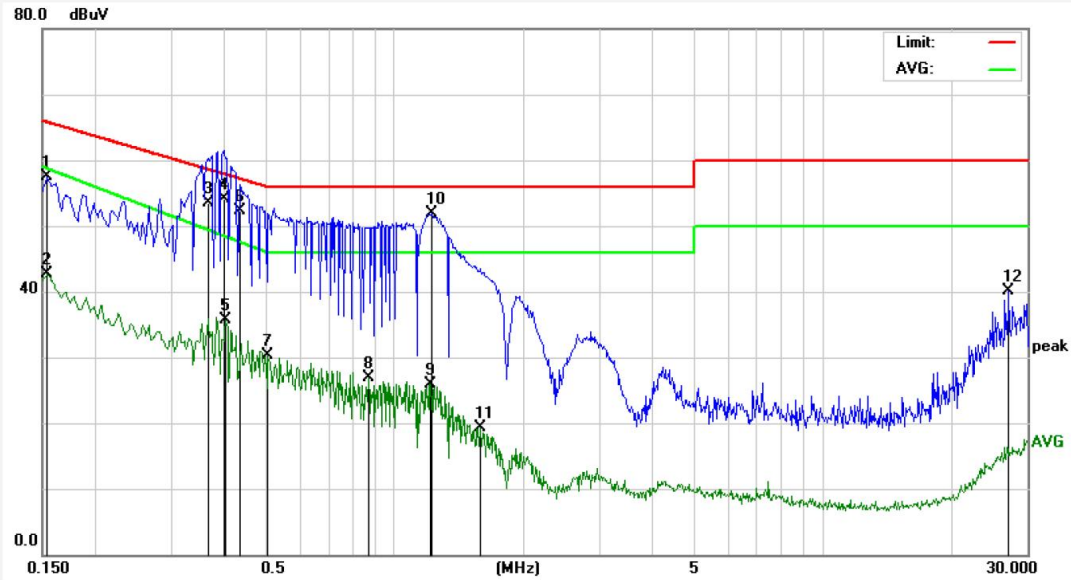


No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1620	41.90	0.12	42.02	58.16	-16.14	AVG	
2	0.2060	56.20	0.12	56.32	63.36	-7.04	QP	
3	0.3620	52.59	0.12	52.71	58.68	-5.97	QP	
4	0.3820	53.89	0.11	54.00	58.23	-4.23	QP	
5	0.3899	35.18	0.11	35.29	48.68	-13.39	AVG	
6	0.4420	50.12	0.13	50.25	57.02	-6.77	QP	
7	0.4980	30.80	0.15	30.95	46.04	-15.09	AVG	
8	0.5500	51.47	0.15	51.62	56.00	-4.38	QP	
9	0.6940	28.33	0.15	28.48	46.00	-17.52	AVG	
10	1.0380	25.84	0.15	25.99	46.00	-20.01	AVG	
11	1.1980	48.79	0.14	48.93	56.00	-7.07	QP	
12	1.3460	21.08	0.14	21.22	46.00	-24.78	AVG	

Note: **Result=Reading+Factor** **Over Limit=Result-Limit**

Conducted Emission Test Data

Test Site:	1# Shielded Room
Test Specification:	AC 230V, 50Hz
Comment:	Neutral Line
	Temp.: 23.9℃ Hum.: 47%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1539	57.38	0.12	57.50	65.78	-8.28	QP	
2	0.1539	42.62	0.12	42.74	58.72	-15.98	AVG	
3	0.3660	53.38	0.12	53.50	58.59	-5.09	QP	
4	0.3980	53.92	0.11	54.03	57.89	-3.86	QP	
5	0.4020	35.62	0.11	35.73	48.35	-12.62	AVG	
6	0.4351	52.24	0.12	52.36	57.15	-4.79	QP	
7	0.5060	30.21	0.15	30.36	46.00	-15.64	AVG	
8	0.8700	26.77	0.15	26.92	46.00	-19.08	AVG	
9	1.2140	25.76	0.14	25.90	46.00	-20.10	AVG	
10	1.2180	51.72	0.14	51.86	56.00	-4.14	QP	
11	1.5820	19.14	0.13	19.27	46.00	-26.73	AVG	
12	27.1460	39.78	0.26	40.04	60.00	-19.96	QP	

Note: Result=Reading+Factor Over Limit=Result-Limit

3. Disturbance Power Test

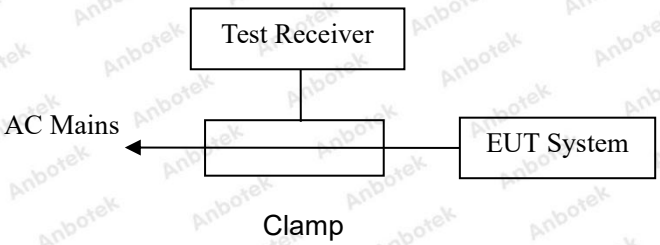
3.1. Test Standard and Limit

Test Standard	EN IEC 55014-1

Disturbance Power Test Limit

Test Limit	Frequency (MHz)	At mains terminals (dBμV)	
		Quasi-peak Level	Average Level
	30 ~300	45 Increasing Linearly with Frequency to 55	35 Increasing Linearly with Frequency to 45

3.2. Test Setup



3.3. EUT Configuration on Measurement

The EN IEC 55014-1 Regulations test method must be used to find the maximum emission during disturbance power measurement. The configuration of the EUT is the same as used in conducted emission measurement.

3.4. Operating Condition of EUT

3.4.1. Setup the EUT as shown in Section 3.2.

3.4.2. Turn on the power of all equipments.

3.4.3. Let the EUT work in test mode and measure it.

3.5. Test Procedure

The EUT is placed on the ground and away from other metallic surface at least 0.8m. It is connected to the power mains through an extension cord of 6m min. The absorber clamp clamps the cord and moves from the far end to the EUT to measure the disturbing energy emitted from the cord.

The bandwidth of the test receiver(R&S ESCI) is set at 120kHz.

All the test results are listed in Section 3.6.

3.6. Test Results

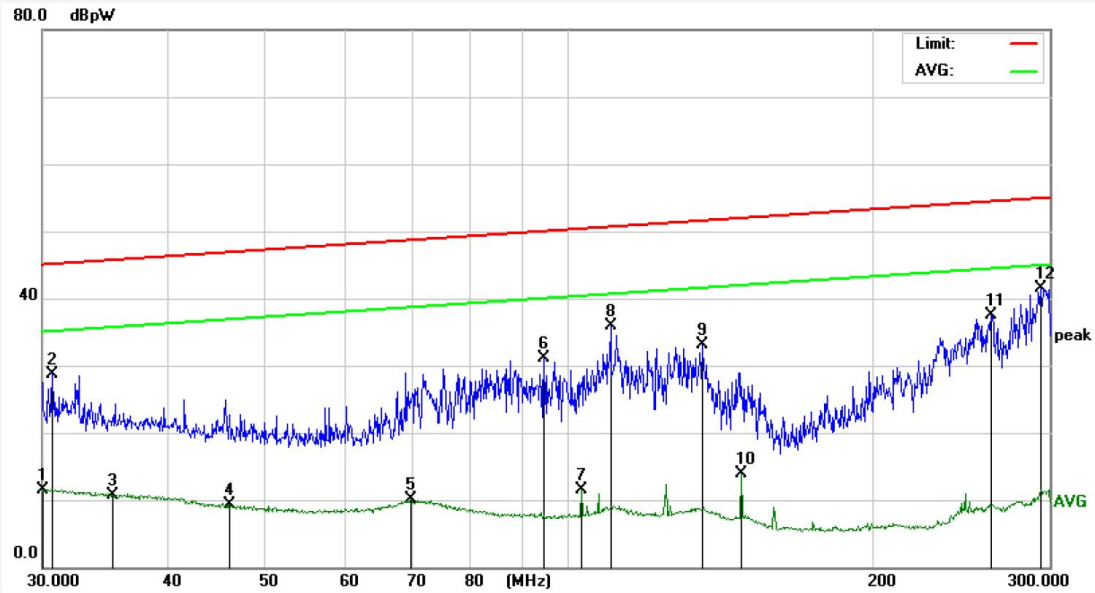
PASS

The frequency spectrum from 30MHz to 300MHz is investigated.

The test curves are shown in the following pages.

Power Clamp Test Data

Test Site:	1# Shielded Room
Test Specification:	AC 230V, 50Hz
Comment:	AC LINE
	Temp.: 23.9℃ Hum.: 47%



No.	Freq. (MHz)	Reading (dBpW)	Factor (dB)	Result (dBpW)	Limit (dBpW)	Over Limit (dB)	Detector	Remark
1	30.0000	-16.34	27.90	11.56	35.00	-23.44	AVG	
2	30.7200	0.94	27.86	28.80	45.10	-16.30	QP	
3	35.3200	-16.84	27.58	10.74	35.71	-24.97	AVG	
4	46.1200	-16.92	26.21	9.29	36.87	-27.58	AVG	
5	69.8000	-16.45	26.46	10.01	38.67	-28.66	AVG	
6	94.4400	6.96	24.20	31.16	49.98	-18.82	QP	
7	103.0000	-13.11	24.52	11.41	40.36	-28.95	AVG	
8	110.0000	10.82	25.10	35.92	50.64	-14.72	QP	
9	135.7600	8.07	25.09	33.16	51.56	-18.40	QP	
10	148.4800	-9.86	23.83	13.97	41.95	-27.98	AVG	
11	262.8400	14.26	23.16	37.42	54.43	-17.01	QP	
12	294.4000	18.38	23.11	41.49	54.92	-13.43	QP	

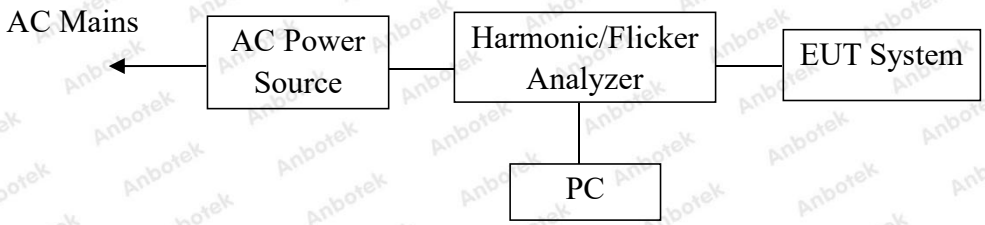
Note: **Result=Reading+Factor** **Over Limit=Result-Limit**

4. Harmonic Current Emission Test

4.1. Test Standard

Test Standard	EN IEC 61000-3-2

4.2. Test Setup



4.3. Operating Condition of EUT

4.3.1. Setup the EUT as shown on Section 4.2.

4.3.2. Turn on the power of all equipments.

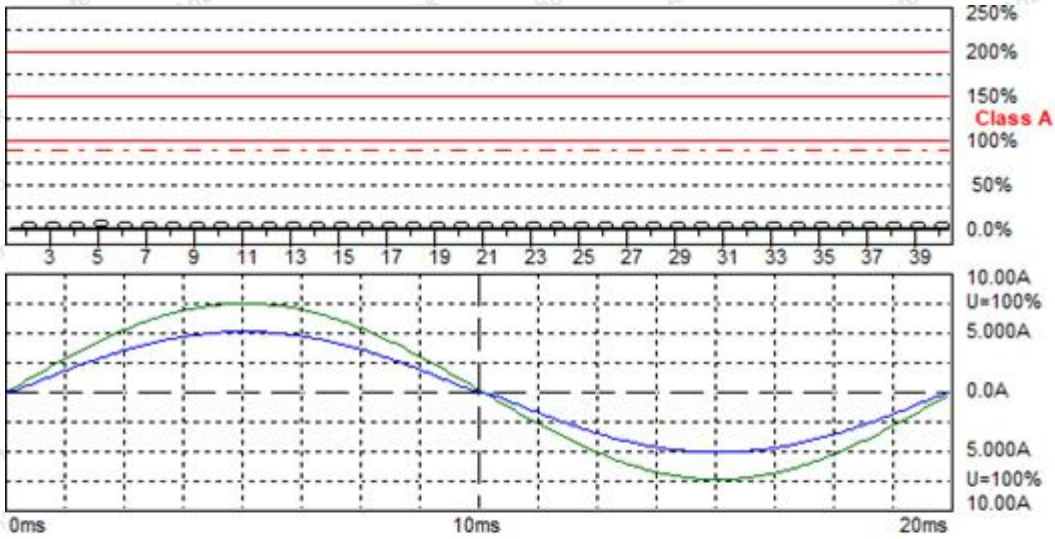
4.3.3. After that, let the EUT work in test mode measure it.

4.4. Test Results

PASS

The test curves are shown in the following pages.

Harmonic Current Test Result Summary (Run time)



Harmonic Emission - IEC 61000-3-2 , EN 61000-3-2 , (EN60555-2)

Urms =	229.5	V	P =	818.0	W	THC =	0.074	A	Range: 10 A
Irms =	3.564	A	pf =	1.000					V-nom: 230 V

Test aborted, Result: PASSED

HAR-1000 EMC-Partner

Full Bar : Actual Values
Empty Bar : Maximum Values
Blue : Current , Green : Voltage , Red : Failed

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Harmonic Current Test Result Summary (Run time)

Urms =	229.5V	Freq =	50.000	Range:	10 A
Irms =	3.564A	Ipk =	5.142A	cf =	1.442
P =	818.0W	S =	818.1VA	pf =	1.000
THDi =	2.20 %	THDu =	0.20 %	Class A	

Test - Time : 3min (100 %)

Test aborted, Result: PASSED

Order	Freq. Status	Iavg	Iavg%L	Irms	Irms%	Irms%L	Imax	Imax%L	Limit
	[Hz]	[A]	[%]	[A]	[%]	[%]	[A]	[%]	[A]
1	50	3.0392		3.4479	96.729		3.4174		
2	100	0.0025	0.2323	0.0031	0.0856	0.2826	0.0226	2.0910	1.0800
3	150	0.0515	2.2409	0.0568	1.5925	2.4679	0.0562	2.4414	2.3000
4	200	0.0000	0.0000	0.0012	0.0342	0.2839	0.0073	1.7033	0.4300
5	250	0.0295	2.5877	0.0323	0.9075	2.8376	0.0323	2.8376	1.1400
6	300	0.0000	0.0000	0.0006	0.0171	0.2035	0.0043	1.4242	0.3000
7	350	0.0122	1.5853	0.0226	0.6336	2.9329	0.0226	2.9329	0.7700
8	400	0.0000	0.0000	0.0006	0.0171	0.2654	0.0031	1.3269	0.2300
9	450	0.0000	0.0000	0.0171	0.4795	4.2725	0.0171	4.2725	0.4000
10	500	0.0000	0.0000	0.0006	0.0171	0.3317	0.0024	1.3269	0.1840
11	550	0.0000	0.0000	0.0134	0.3767	4.0690	0.0128	3.8841	0.3300
12	600	0.0000	0.0000	0.0000	0.0000	0.0000	0.0024	1.5922	0.1533
13	650	0.0000	0.0000	0.0104	0.2911	4.9409	0.0104	4.9409	0.2100
14	700	0.0000	0.0000	0.0006	0.0171	0.4644	0.0018	1.3932	0.1314
15	750	0.0000	0.0000	0.0085	0.2397	5.6966	0.0085	5.6966	0.1500
16	800	0.0000	0.0000	0.0006	0.0171	0.5307	0.0018	1.5922	0.1150
17	850	0.0000	0.0000	0.0067	0.1884	5.0727	0.0067	5.0727	0.1324
18	900	0.0000	0.0000	0.0006	0.0171	0.5971	0.0018	1.7912	0.1022
19	950	0.0000	0.0000	0.0055	0.1541	4.6387	0.0055	4.6387	0.1184
20	1000	0.0000	0.0000	0.0006	0.0171	0.6634	0.0012	1.3269	0.0920
21	1050	0.0000	0.0000	0.0049	0.1370	4.5573	0.0049	4.5573	0.1071
22	1100	0.0000	0.0000	0.0000	0.0000	0.0000	0.0012	1.4595	0.0836
23	1150	0.0000	0.0000	0.0037	0.1027	3.7435	0.0037	3.7435	0.0978
24	1200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0012	1.5922	0.0767
25	1250	0.0000	0.0000	0.0031	0.0856	3.3908	0.0031	3.3908	0.0900
26	1300	0.0000	0.0000	0.0000	0.0000	0.0000	0.0012	1.7249	0.0708
27	1350	0.0000	0.0000	0.0024	0.0685	2.9297	0.0024	2.9297	0.0833
28	1400	0.0000	0.0000	0.0000	0.0000	0.0000	0.0012	1.8576	0.0657
29	1450	0.0000	0.0000	0.0018	0.0514	2.3600	0.0018	2.3600	0.0776
30	1500	0.0000	0.0000	0.0006	0.0171	0.9951	0.0012	1.9903	0.0613
31	1550	0.0000	0.0000	0.0012	0.0342	1.6819	0.0018	2.5228	0.0726
32	1600	0.0000	0.0000	0.0006	0.0171	1.0615	0.0018	3.1844	0.0575
33	1650	0.0000	0.0000	0.0012	0.0342	1.7904	0.0018	2.6855	0.0682
34	1700	0.0000	0.0000	0.0006	0.0171	1.1278	0.0012	2.2556	0.0541
35	1750	0.0000	0.0000	0.0006	0.0171	0.9494	0.0012	1.8989	0.0643
36	1800	0.0000	0.0000	0.0000	0.0000	0.0000	0.0006	1.1942	0.0511
37	1850	0.0000	0.0000	0.0006	0.0171	1.0037	0.0012	2.0074	0.0608
38	1900	0.0000	0.0000	0.0006	0.0171	1.2605	0.0006	1.2605	0.0484
39	1950	0.0000	0.0000	0.0006	0.0171	1.0579	0.0006	1.0579	0.0577
40	2000	0.0000	0.0000	0.0006	0.0171	1.3269	0.0006	1.3269	0.0460

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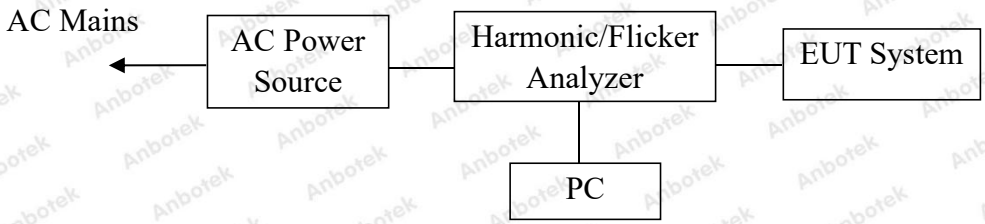
5. Voltage Fluctuations & Flicker Test

5.1. Test Standard

Test Standard	EN 61000-3-3

5.2. Test Setup



5.3. Operating Condition of EUT

5.3.1. Setup the EUT as shown on Section 5.2.

5.3.2. Turn on the power of all equipments.

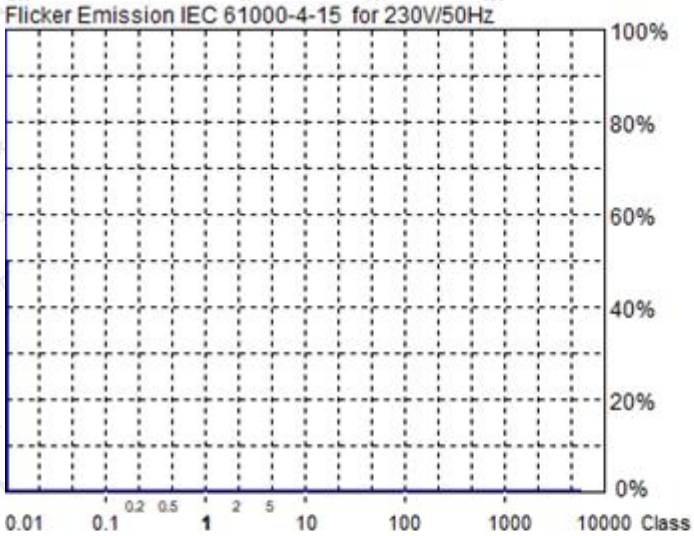
5.3.3. After that, let the EUT work in test mode measure it.

5.4. Test Results

PASS

The test curves are shown in the following pages.

Flicker Test Summary (Run time)



Actual Flicker (Fli):	**0.00**
Short-term Flicker (Pst):	**0.07**
Limit (Pst):	1.00
Long-term Flicker (Plt):	**0.00**
Limit (Plt):	0.65
Maximum Relative Volt. Change (dmax):	**0.00%**
Limit (dmax):	4.00%
Relative Steady-state Voltage Change (dc):	**0.00%**
Limit (dc):	3.00%
Tmax 3.00% (dt):	**0.00ms**
Limit (dt>Lim):	200ms

Flicker Emission - IEC 61000-3-3 , EN 61000-3-3

Urms =	228.3 V	P =	814.3 W	Range:	10 A
Irms =	3.569 A	pf =	0.999	V-nom:	230 V

Test aborted, Result: PASSED

HAR-1000 EMC-Partner

Full Bar : Actual Values
Empty Bar : Maximum Values
Circles : Average Values
Blue : Current , Green : Voltage , Red : Failed

Urms =	**228.3V**	**Freq =**	**50.000**	**Range:**	**10 A**
Irms =	**3.569A**	**Ipk =**	**5.151A**	**cf =**	**1.443**
P =	**814.3W**	**S =**	**815.0VA**	**pf =**	**0.999**

Test - Time : 10 x 1min = 10min (100 %)

LIN (Line Impedance Network) : L: 0.24ohm +j0.15ohm N: 0.16ohm +j0.10ohm

Limits : Plt :	**0.65**	**Pst :**	**1.00**		
	dmax :	**4.00 %**	**dc :**	**3.00 %**	
	dtLim:	**3.00 %**	**dt>Lim:**	**200ms**	

Test aborted, Result: PASSED

	dmax [%]	dc [%]	dt>Lim [ms]
1	**0.000**	**0.000**	**0.000**

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6. Electrostatic Discharge Immunity Test

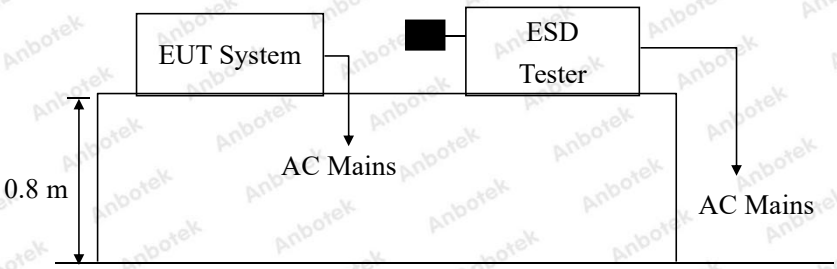
6.1. Test Standard and Level

Test Standard:	EN IEC 55014-2 (IEC 61000-4-2)
Performance Criterion:	B
Severity Level: 4 / Air Discharge: ±8kV, Level: 2 / Contact Discharge: ±4kV	

Test Level

Level	Test Voltage Contact Discharge (kV)	Test Voltage Air Discharge (kV)
1.	±2	±2
2.	±4	±4
3.	±6	±8
4.	±8	±15
X	Special	Special

6.2. Test Setup



6.3. EUT Configuration on Measurement

The following equipments are installed on Electrostatic Discharge immunity Measurement to meet EN IEC 55014-2 requirements and operating in a manner which tends to maximize its emission characteristics in a normal application.

6.4. Operating Condition of EUT

6.4.1. Setup the EUT as shown on Section 6.2.

6.4.2. Turn on the power of all equipments.

6.4.3. After that, let the EUT work in test mode measure it.

6.5. Test Procedure

6.5.1. Air Discharge:

This test is done on a non-conductive surface. The round discharge tip of the discharge electrode shall be approached as fast as possible to touch the EUT. After each discharge, the discharge electrode shall be removed from the EUT. The generator is then re-triggered for a new single discharge and repeated 10 times for each pre-selected test point. This procedure shall be repeated until all the air discharge completed.

6.5.2. Contact Discharge:

All the procedure shall be same as Section 6.5.1. except that the tip of the discharge electrode shall touch the EUT before the discharge switch is operated.

6.5.3. Indirect discharge for horizontal coupling plane

At least 20 single discharges shall be applied to the horizontal coupling plane, at points on each side of the EUT. The discharge electrode positions vertically at a distance of 0.1m from the EUT and with the discharge electrode touching the coupling plane.

6.5.4. Indirect discharge for vertical coupling plane

At least 20 single discharge shall be applied to the center of one vertical edge of the coupling plane. The coupling plane, of dimensions 0.5m × 0.5m, is placed parallel to, and positioned at a distance of 0.1m from the EUT. Discharges shall be applied to the coupling plane, with this plane in sufficient different positions that the four faces of the EUT are completely illuminated.

6.6. Test Results

PASS

Please refer to the following page.

Electrostatic Discharge Test Results

Air discharge :	±8.0kV	Temperature :	24.9℃
Contact discharge :	±4.0kV	Humidity :	53%
Power Supply :	AC 230V, 50Hz	Expert conclusion :	A
Number of discharge :	10	Test Result:	☒ Pass ☐ Fail

Location		**Kind** A-Air Discharge C-Contact Discharge	**Result**
Button	4 points	A	☑ A ☐ B ☐ C ☐ D
Light	4 points	A	☑ A ☐ B ☐ C ☐ D
Slot	4 points	A	☑ A ☐ B ☐ C ☐ D
HCP	4 points	C	☑ A ☐ B ☐ C ☐ D
VCP of the front	4 points	C	☑ A ☐ B ☐ C ☐ D
VCP of the rear	4 points	C	☑ A ☐ B ☐ C ☐ D
VCP of the left	4 points	C	☑ A ☐ B ☐ C ☐ D
VCP of the right	4 points	C	☑ A ☐ B ☐ C ☐ D

Remark: Discharge should be considered on Contact and Air and Horizontal Coupling Plane (HCP) and Vertical Coupling Plane (VCP).

7. Electrical Fast Transient/Burst Immunity Test

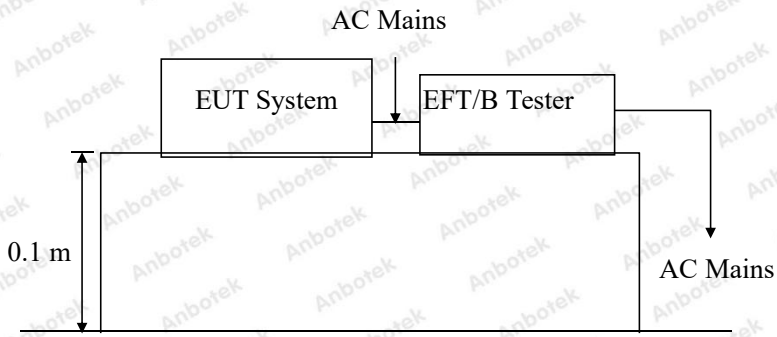
7.1. Test Standard and Level

Test Standard:	EN IEC 55014-2 (IEC 61000-4-4)
Performance criterion:	B
Severity Level 2: 1.00kV	

Test Level

Open Circuit Output Test Voltage ± 10%		
Level	On Power Supply Lines	On I/O (Input/Output) Signal data and control lines
1.	0.50 kV	0.25 kV
2.	1.00 kV	0.50 kV
3.	2.00 kV	1.00 kV
4.	4.00 kV	2.00 kV
X.	Special	Special

7.2. Test Setup



7.3. EUT Configuration on Measurement

The following equipments are installed on Electrical Fast Transient/Burst Immunity Measurement to meet EN IEC 55014-2 requirements and operating in a manner which tends to maximize its emission characteristics in a normal application.

7.4. Operating Condition of EUT

7.4.1. Setup the EUT as shown in Section 7.2.

7.4.2. Turn on the power of all equipments.

7.4.3. Let the EUT work in test mode and measure it.

7.5. Test Procedure

The EUT is put on the table which is 0.1 meter high above the ground. This reference ground plane shall project beyond the EUT by at least 0.1m on all sides and the minimum distance between EUT and all other conductive structure, except the ground plane beneath the EUT, shall be more than 0.5m.

7.5.1. For input and output AC power ports:

The EUT is connected to the power mains by using a coupling device which couples the EFT interference signal to AC power lines. Both polarities of the test voltage should be applied during compliance test and the duration of the test is 2 mins.

7.5.2. For signal lines and control lines ports:

Select tests based on product characteristics.

7.5.3. For DC output line ports:

Select tests based on product characteristics.

7.6. Test Results

PASS

Please refer to the following page.

Electrical Fast Transient/Burst Test Results

Ambient Condition : 24.9℃ / 53% RH		Expert conclusion : A	
Power Supply .: AC 230V, 50Hz		Test Result : ☒ Pass ☐ Fail	
Inject Line : AC Mains	Inject Method: Direct	Inject Time(s): 120	
Line	Polarity	Test Voltage (kV)	Result
AC Line	±	1.00kV	☑ A ☐ B ☐ C ☐ D
DC Line			
Signal Line			

8. Surge Immunity Test

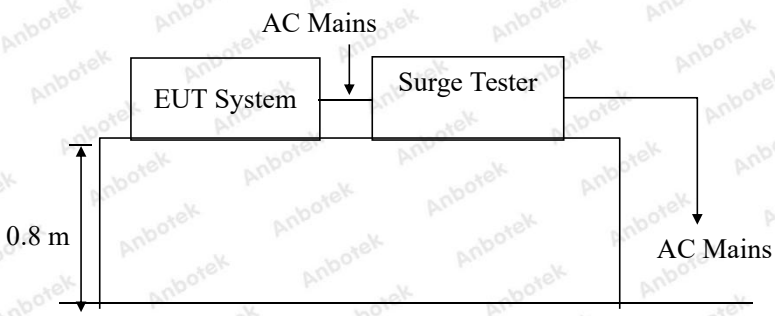
8.1. Test Standard and Level

Test Standard:	EN IEC 55014-2 (IEC 61000-4-5)
Performance criterion:	B
Severity Level 2, Line to Line: 1.0kV	

Test Level

Severity Level	Open-Circuit Test Voltage (kV)
1.	0.5
2.	1.0
3.	2.0
4.	4.0
X.	Special

8.2. Test Setup



8.3. EUT Configuration on Measurement

The following equipments are installed on Surge immunity Measurement to meet EN IEC 55014-2 requirements and operating in a manner which tends to maximize its emission characteristics in a normal application.

8.4. Operating Condition of EUT

8.4.1. Setup the EUT as shown in Section 8.2.

8.4.2. Turn on the power of all equipments.

8.4.3. Let the EUT work in test mode and measure it.

8.5. Test Procedure

8.5.1. Set up the EUT and test generator as shown on Section 8.2.

8.5.2. For line to line coupling mode, provide a 1.0kV 1.2/50us voltage surge (at open-circuit condition) and 8/20us current surge to EUT selected points.

8.5.3. At least 5 positive and 5 negative (polarity) tests with a maximum 1/min repetition rate are conducted during test.

8.5.4. Different phase angles are done individually.

8.5.5. Record the EUT operating situation during compliance test and decide the EUT immunity criterion for above each test.

8.6. Test Results

PASS

Please refer to the following page.

Surge Immunity Test Results

Humidity :	53%	Temperature :	24.9℃
Power Supply :	AC 230V, 50Hz	Expert conclusion:	A
Test Result :	☒ Pass ☐ Fail		

Location	Polarity	Phase Angle	Number of Pulse	Pulse Voltage (kV)	Result
L-N	+	☐ 0° ☒ 90° ☐ 180° ☐ 270°	5	1.0kV	☑ A ☐ B ☐ C ☐ D
L-N	-	☐ 0° ☐ 90° ☐ 180° ☒ 270°	5	1.0kV	☑ A ☐ B ☐ C ☐ D
L-GND					
L-GND					
N-GND					
N-GND					

9. Injected Currents Susceptibility Test

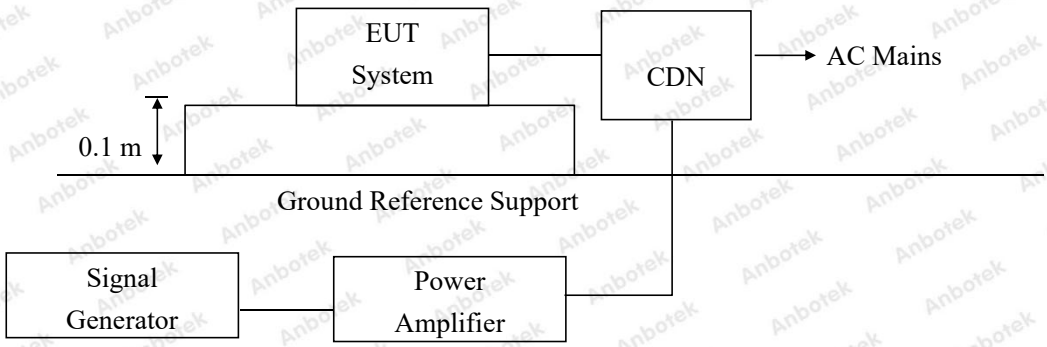
9.1. Test Standard and Level

Test Standard	EN IEC 55014-2 (IEC 61000-4-6)
Performance criterion	A
Severity Level 2: 3V (rms), (0.15MHz ~230MHz)	

Test Level

Level	Field Strength V
1.	1
2.	3
3.	10
X.	Special

9.2. Test Setup



9.3. EUT Configuration

The following equipments are installed on currents susceptibility Measurement to meet EN IEC 55014-2 requirements and operating in a manner which tends to maximize its emission characteristics in a normal application.

9.4. Operating Condition of EUT

9.4.1. Setup the EUT as shown in Section 9.2.

9.4.2. Turn on the power of all equipments.

9.4.3. Let the EUT work in test mode and measure it.

9.5. Test Procedure

1) Set up the EUT, CDN and test generators as shown on Section 9.2.
2) Let the EUT work in test mode and measure it.
3) The EUT are placed on an insulating support 0.1m high above a ground reference plane. CDN (coupling and decoupling device) is placed on the ground plane about 0.3m from EUT. Cables between CDN and EUT are as short as possible, and their height above the ground reference plane shall be between 30 and 50 mm (where possible).
4) The disturbance signal described below is injected to EUT through CDN.
5) The EUT operates within its operational mode(s) under intended climatic conditions after power on.
6) The frequency range is swept from 150KHz to 230MHz using 3V signal level, and with the disturbance signal 80% amplitude modulated with a 1KHz sine wave.
7) The rate of sweep shall not exceed 1.5*10-3decades/s. Where the frequency is swept incrementally, the step size shall not exceed 1% of the start and thereafter 1% of the preceding frequency value.
8) Recording the EUT operating situation during compliance testing and decide the EUT immunity criterion.

9.5.1. For signal lines and control lines ports:

Select tests based on product characteristics.

9.5.2. For DC output line ports:

Select tests based on product characteristics.

9.6. Test Results

PASS

Please refer to the following page.

Injected Currents Susceptibility Test Results

Humidity : 52%		Temperature : 24.6℃	
Power Supply : AC 230V, 50Hz		Expert conclusion: A	
Test Result : ☒ Pass ☐ Fail			
Frequency Range (MHz)	Injected Position	Strength (Unmodulated)	Result
0.15 ~ 230	AC Mains	3V	☑ A ☐ B ☐ C ☐ D

Remark : 1. Modulation Signal:1KHz 80% AM

10. Voltage Dips And Interruptions Test

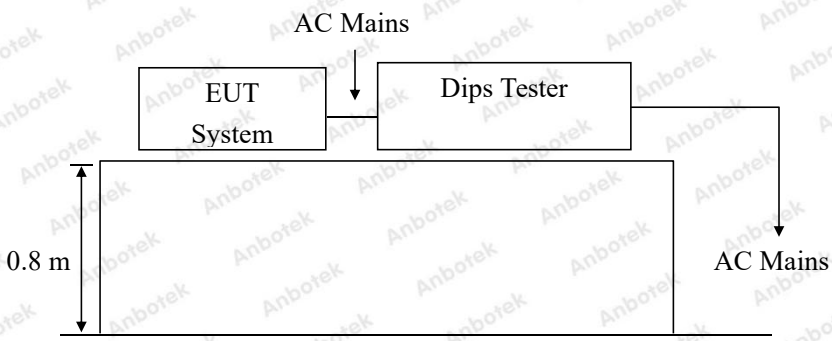
10.1. Test Standard and Level

Test Standard:	EN IEC 55014-2 (IEC 61000-4-11)
Performance Criterion:	C

Test Level

Test Level %UT	Voltage dip and short interruptions %UT	Duration (in period)
0	100	0.5 1 5 10 25 50 *
40	60	
70	30	
/	/	

10.2. Test Setup



10.3. EUT Configuration on Measurement

The following equipments are installed on Voltage dips and interruptions Measurement to meet EN IEC 55014-2 requirements and operating in a manner which tends to maximize its emission characteristics in a normal application.

10.4. Operating Condition of EUT

10.4.1. Setup the EUT as shown in Section 10.2.

10.4.2. Turn on the power of all equipments.

10.4.3. Let the EUT work in test mode and measure it.

10.5. Test Procedure

1) Set up the EUT and test generator as shown on Section 10.2.
2) The interruptions is introduced at selected phase angles with specified duration.
3) Record any degradation of performance.

10.6. Test Results

PASS

Please refer to the following page.

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
Tel:(86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com
Hotline 400-003-0500 www.anbotek.com

Voltage Dips and Interruptions Test Results

Temperature : 24.9℃		Humidity : 53％	
Power Supply : AC 230V, 50Hz		Expert conclusion : C	
Test Result : ☒ Pass ☐ Fail			
Test Level % UT	Voltage Dips & Short Interruptions % UT	Duration (in periods)	Result
0	100	0.5P	☐ A ☐ B ☑ C ☐ D
40	60	10P	☐ A ☐ B ☑ C ☐ D
70	30	25P	☐ A ☐ B ☑ C ☐ D
Test Level % UT	Voltage Dips & Short Interruptions % UT	Duration (in periods)	Result

APPENDIX I -- TEST SETUP PHOTOGRAPH

Photo of Power Line Conducted Emission Test

Photo of Disturbance Power Test

Photo of Flicker/ Harmonic Test

Photo of Electrostatic Discharge Immunity Test

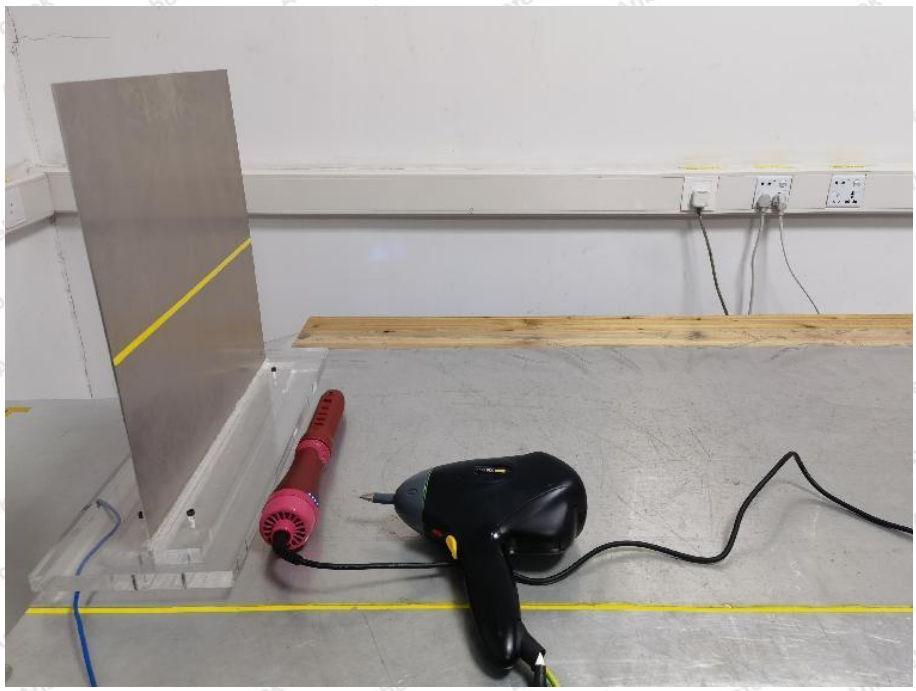


Photo of Electrical Fast Transient/Burst Immunity Test

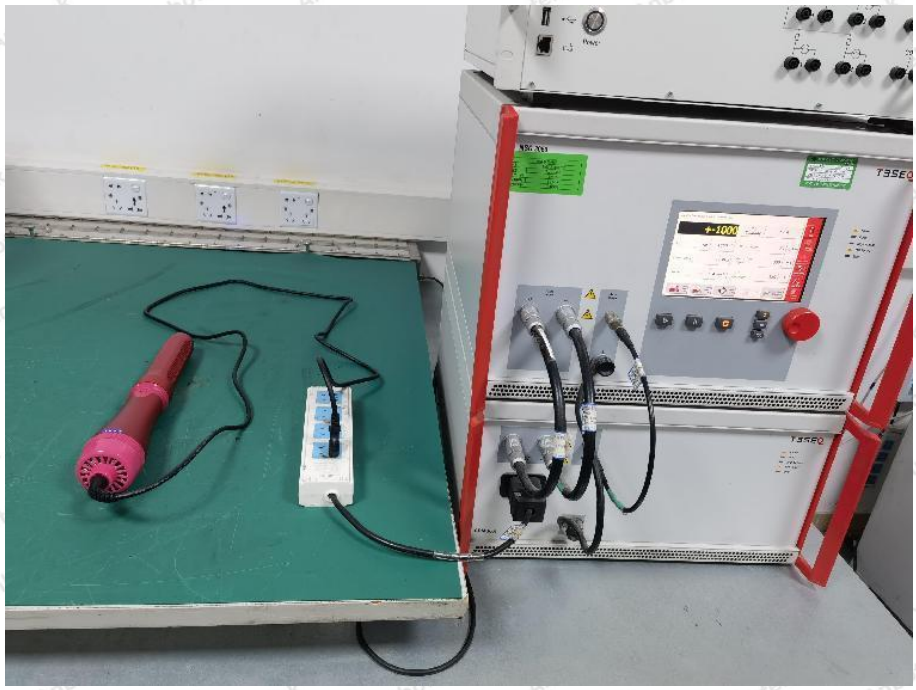


Photo of Surge Immunity Test

Photo of Injected currents susceptibility Test

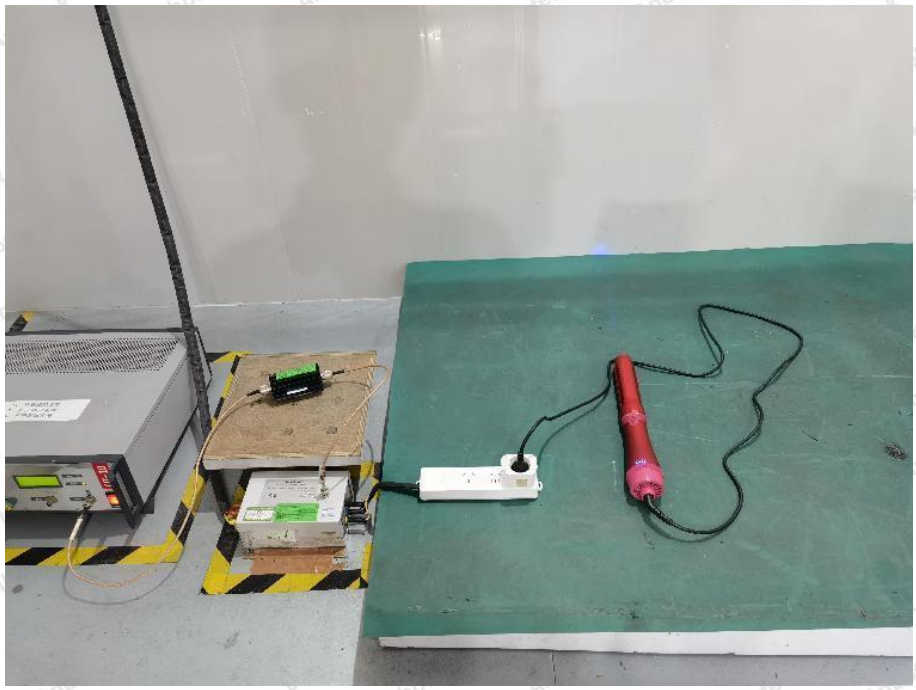
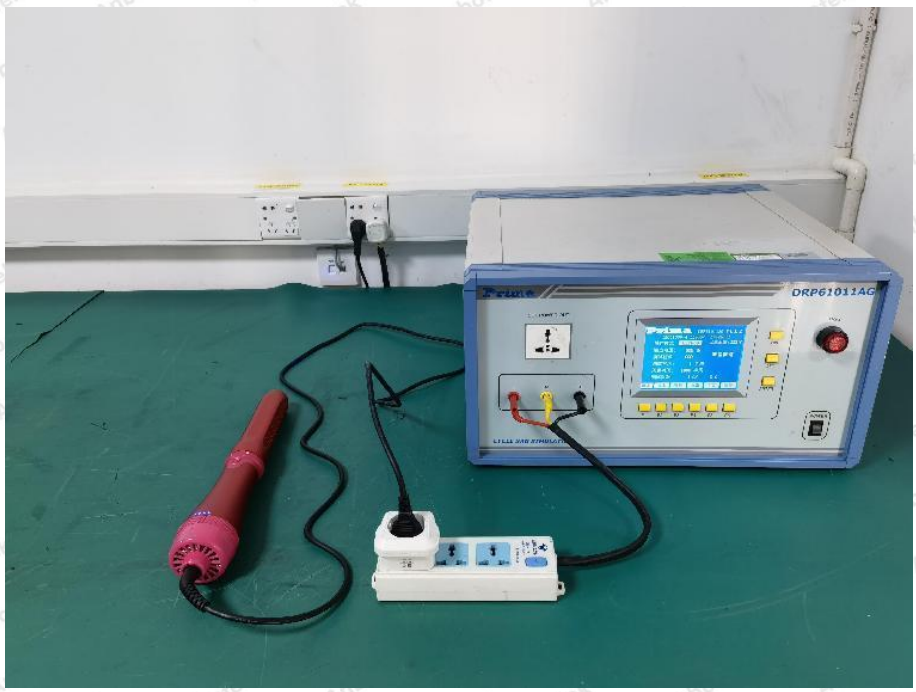
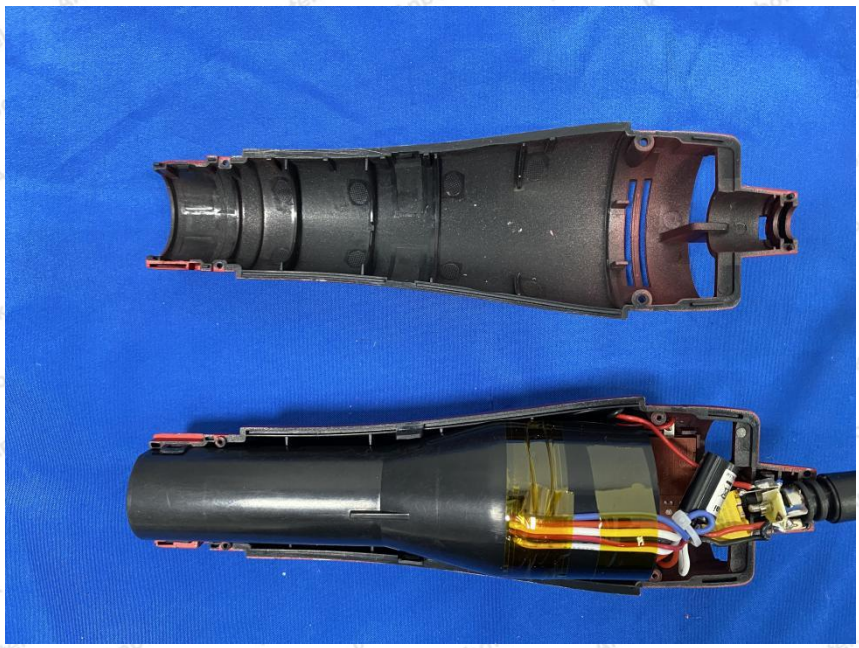
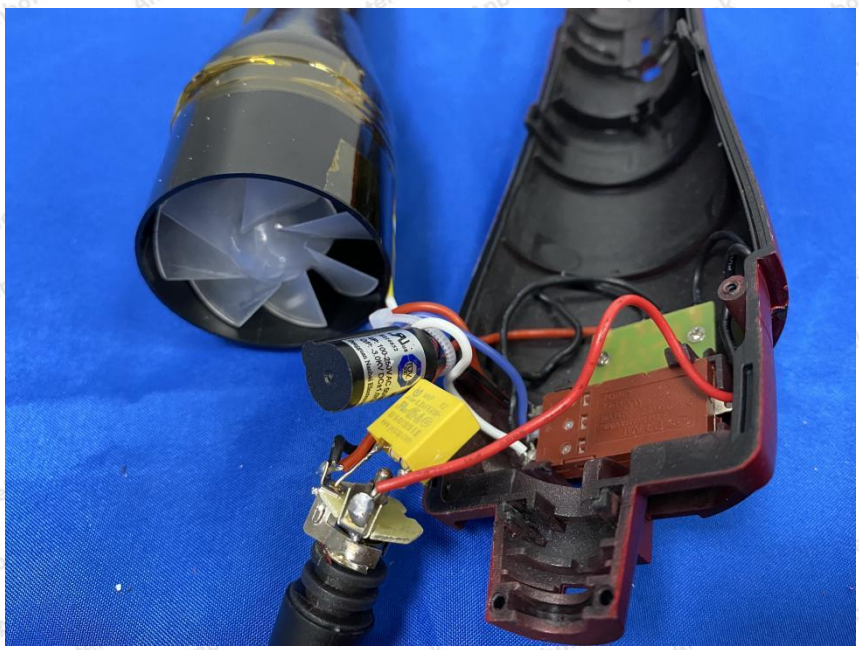


Photo of Voltage Dips and Interruptions Test



APPENDIX II -- Photo documentation





CE Label

1. The CE conformity marking must consist of the initials ‘CE’ taking the following form:
   If the CE marking is reduced or enlarged, the proportions given in the above graduated drawing must be respected.
2. The CE marking must have a height of at least 5 mm except where this is not possible on account of the nature of the apparatus.
3. The CE marking must be affixed to the product or to its data plate. Additionally it must be affixed to the packaging, if any, and to the accompanying documents.
4. The CE marking must be affixed visibly, legibly and indelibly.
   It must have the same height as the initials ‘CE’.

---------- End of Report ----------

FCC Test Report

Client Name	:	Dongguan Kangya Technology Co., Ltd.
Address	:	Room 501, Building 2, No. 7, Longtian Road, Qinghutou, Tangxia Town, Dongguan City, Guangdong Province
Product Name	:	Terahertz blower
Date	:	Jun. 10, 2022

Shenzhen Anbotek Compliance Laboratory Limited

Contents

TEST REPORT

Applicant	:	Dongguan Kangya Technology Co., Ltd.
Manufacturer	:	Dongguan Kangya Technology Co., Ltd.
Product Name	:	Terahertz blower
Model No.	:	FKY00098, FKY
Trade Mark	:	FKY
Rating(s)	:	220-240V~, 50/60Hz, 1000W
Test Standard(s)	**:**	**FCC Rules and Regulations Part 15 Subpart B: 2020**
Test Method(s)	**:**	**ANSI C63.4-2014**

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited To determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart B Class B limits both radiated and conducted emissions. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited Is assumed full responsibility for the accuracy and completeness of these measurements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited

Date of Receipt: May 17, 2022

Date of Test: May 17~May 24, 2022

Prepared By: Yee Huang

(Yee Huang)

Approved & Authorized Signer:

(KingKong Jin)

1. General Information

1.1. Client Information

Applicant	:	Dongguan Kangya Technology Co., Ltd.
Address	:	Room 501, Building 2, No. 7, Longtian Road, Qinghutou, Tangxia Town, Dongguan City, Guangdong Province
Manufacturer	:	Dongguan Kangya Technology Co., Ltd.
Address	:	Room 501, Building 2, No. 7, Longtian Road, Qinghutou, Tangxia Town, Dongguan City, Guangdong Province
Factory	:	Dongguan Kangya Technology Co., Ltd.
Address	:	Room 501, Building 2, No. 7, Longtian Road, Qinghutou, Tangxia Town, Dongguan City, Guangdong Province

1.2. Description of Device (EUT)

Product Name	:	Terahertz blower	
Model No.	:	FKY00098, FKY (Note: All samples are the same except the model number & appearance, so we prepare “FKY00098” for test only.)	
Trade Mark	:	FKY	
Test Power Supply	:	AC 120V, 60Hz	
Test Sample No.	:	1-1-1	
Product Description	:	Adapter:	N/A
Remark: (1) For a more detailed features description, please refer to the manufacturer’s specifications or the User’s Manual.			

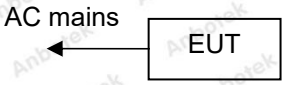
1.3. Auxiliary Equipment Used During Test

N.A.	:	

1.4. Description of Test Mode

Pretest Mode	Description
Mode 1	On

For Mode 1 Block Diagram of Test Setup



1.5. Test Summary

Test Items	Test Mode	Status
Power Line Conducted Emission Test (150KHz To 30MHz)	Mode 1	P
Radiated Emission Test (30MHz To 1000MHz)	Mode 1	P
P) Indicates “PASS”. N) Indicates “Not applicable”.		

1.6. Test Equipment List

Conducted Emission Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	Oct. 22, 2021	1 Year
2.	Three Phase V-type Artificial Power Network	CYBERTEK	EM5040DT	E215040DT001	Jul. 05, 2021	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Oct. 22, 2021	1 Year
4.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Oct. 22, 2021	1 Year
5.	Software Name EZ-EMC	Ferrari Technology	ANB-03A	N/A	N/A	N/A

Radiated Emission Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Oct. 22, 2021	1 Year
2.	Pre-amplifier	Schwarzbeck	BBV-9745	9745-075	Oct. 22, 2021	1 Year
3.	Bilog Broadband Antenna	SCHWARZBECK	VULB 9163	01109	Oct. 22, 2021	2 Year
4.	Software Name EZ-EMC	Ferrari Technology	EMEC-3A1	N/A	N/A	N/A

1.7. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 4.7 dB (Horizontal)
		Ur = 4.3 dB (Vertical)
Conduction Uncertainty	:	Uc = 3.4 dB
Disturbance Uncertainty	:	Ud = 3.4 dB

1.8. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 184111

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 184111.

ISED-Registration No.: 8058A

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.
1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518128

2. Power Line Conducted Emission Test

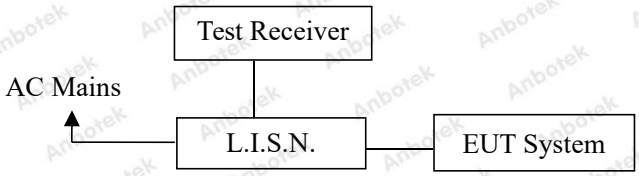
2.1. Test Standard and Limit

Test Standard	FCC Part 15 Subpart B

Power Line Conducted Emission Measurement Limits (FCC Part 15 Class B)

	Frequency (MHz)	At mains terminals (dBμV)	
		Quasi-peak Level	Average Level
Test Limit	0.15 ~ 0.50	66 ~ 56*	56 ~ 46*
	0.50 ~ 5.00	56	46
	5.00 ~ 30.00	60	50
Remark: (1) The lower limit shall apply at the transition frequencies. (2) * Decreasing linearly with logarithm of frequency.			

2.2. Test Setup



2.3. EUT Configuration on Measurement

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

2.4. Operating Condition of EUT

2.4.1. Setup the EUT as shown in Section 2.2.

2.4.2. Turn on the power of all equipments.

2.4.3. Let the EUT work in test mode and measure it.

2.5. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.4-2014 on Conducted Emission Measurement.

The bandwidth of test receiver (ESCI) set at 9KHz.

The frequency range from 150KHz to 30MHz is checked.

All the test results are listed in Section 2.6.

2.6. Test Results

PASS

The test curves are shown in the following pages.

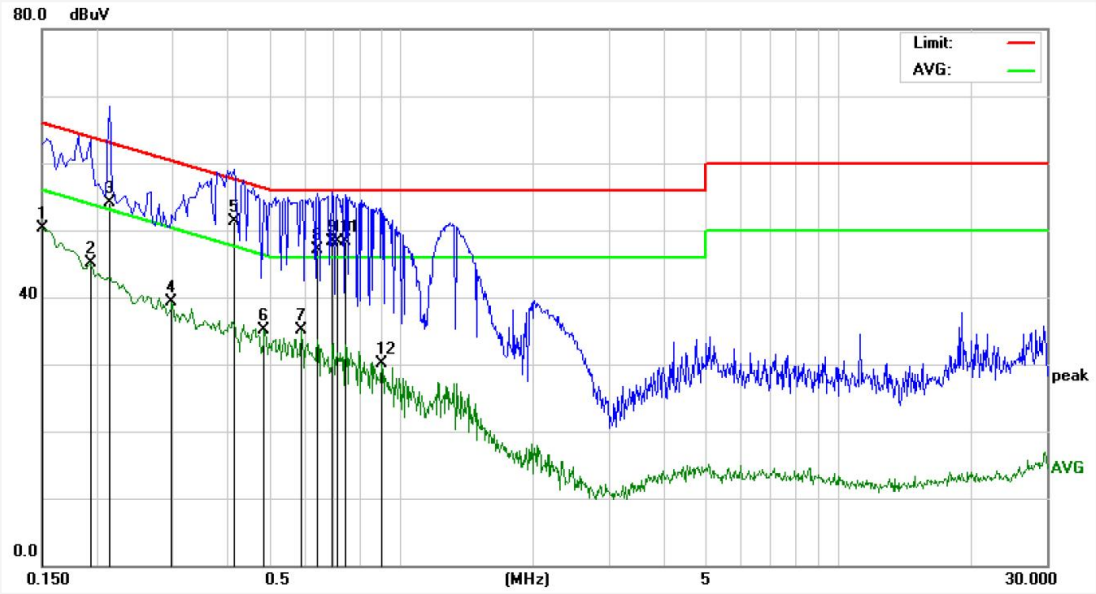
Conducted Emission Test Data

Test Site: 1# Shielded Room

Test Specification: AC 120V, 60Hz

Comment: Live Line

Temp.: 23.9℃ Hum.: 47%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1500	50.24	0.11	50.35	55.99	-5.64	AVG	
2	0.1940	45.04	0.12	45.16	53.86	-8.70	AVG	
3	0.2140	54.03	0.12	54.15	63.04	-8.89	QP	
4	0.2980	39.15	0.13	39.28	50.30	-11.02	AVG	
5	0.4140	51.11	0.12	51.23	57.57	-6.34	QP	
6	0.4860	34.94	0.14	35.08	46.24	-11.16	AVG	
7	0.5899	34.95	0.15	35.10	46.00	-10.90	AVG	
8	0.6419	47.00	0.15	47.15	56.00	-8.85	QP	
9	0.6940	48.21	0.15	48.36	56.00	-7.64	QP	
10	0.7140	48.08	0.15	48.23	56.00	-7.77	QP	
11	0.7460	48.08	0.15	48.23	56.00	-7.77	QP	
12	0.9020	29.86	0.15	30.01	46.00	-15.99	AVG	

Note: Result=Reading+Factor Over Limit=Result-Limit

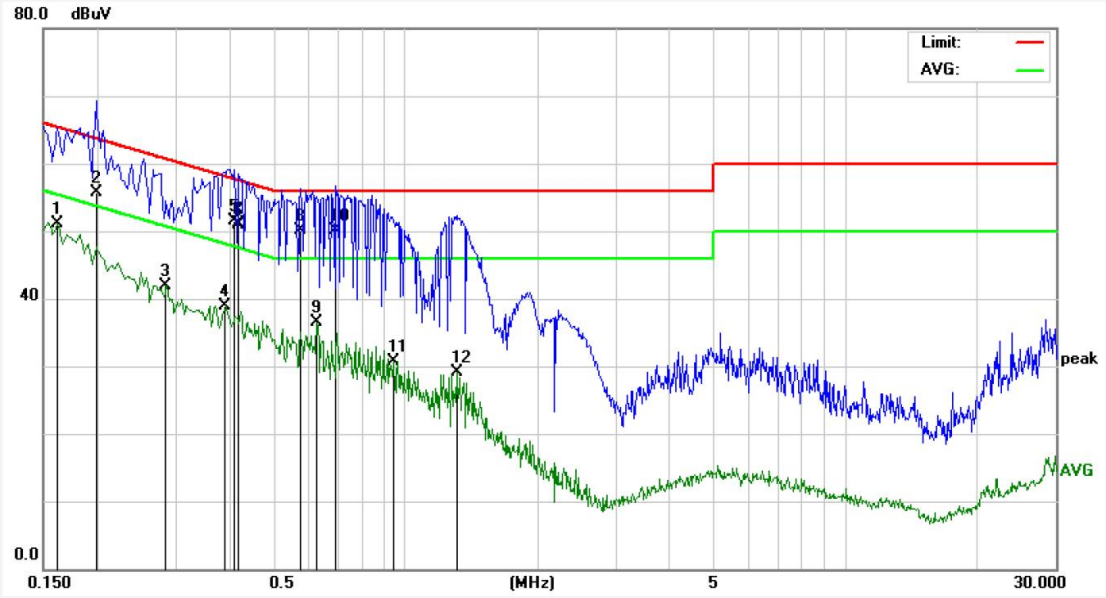
Conducted Emission Test Data

Test Site: 1# Shielded Room

Test Specification: AC 120V, 60Hz

Comment: Neutral Line

Temp.: 23.9℃ Hum.: 47%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1620	50.91	0.12	51.03	55.36	-4.33	AVG	
2	0.1980	55.49	0.12	55.61	63.69	-8.08	QP	
3	0.2860	41.86	0.13	41.99	50.64	-8.65	AVG	
4	0.3899	38.72	0.11	38.83	48.06	-9.23	AVG	
5	0.4100	51.30	0.11	51.41	57.65	-6.24	QP	
6	0.4180	50.77	0.12	50.89	57.49	-6.60	QP	
7	0.4180	50.93	0.12	51.05	57.49	-6.44	QP	
8	0.5780	49.87	0.15	50.02	56.00	-5.98	QP	
9	0.6300	36.43	0.15	36.58	46.00	-9.42	AVG	
10	0.6940	49.99	0.15	50.14	56.00	-5.86	QP	
11	0.9420	30.61	0.15	30.76	46.00	-15.24	AVG	
12	1.3060	28.97	0.14	29.11	46.00	-16.89	AVG	

Note: Result=Reading+Factor Over Limit=Result-Limit

3. Radiated Emission Test

3.1. Test Standard and Limit

Test Standard	FCC Part 15 Subpart B

Radiated Emission Test Limit (Subpart B Class B)

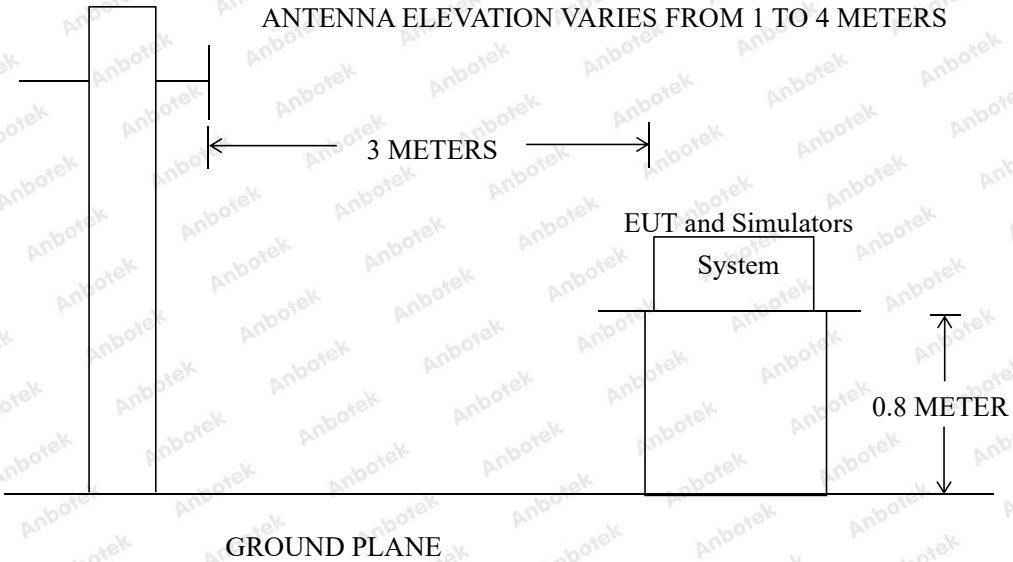
	Frequency (MHz)	DISTANCE (Meters)	FIELD STRENGTHS LIMIT	
			μV/m	(dBμV/m)
Test Limit	30 ~ 88	3	100	40
	88 ~ 216	3	150	43.5
	216 ~ 960	3	200	46
	960 ~ 1000	3	500	54

Remark: (1) Emission level (dB)μV = 20 log Emission level μV/m

(2) The smaller limit shall apply at the cross point between two frequency bands.

(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

3.2. Test Setup



3.3. EUT Configuration on Measurement

The following equipments are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

3.4. Operating Condition of EUT

3.4.1. Setup the EUT as shown in Section 3.2.

3.4.2. Turn on the power of all equipments.

3.4.3. Let the EUT work in test mode and measure it.

3.5. Test Procedure

EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (Trilog Broadband Antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4-2014 on radiated emission measurement.

The bandwidth of the EMI test receiver (ESCI) is set at 120kHz.

The frequency range from 30MHz to 1000MHz is checked.

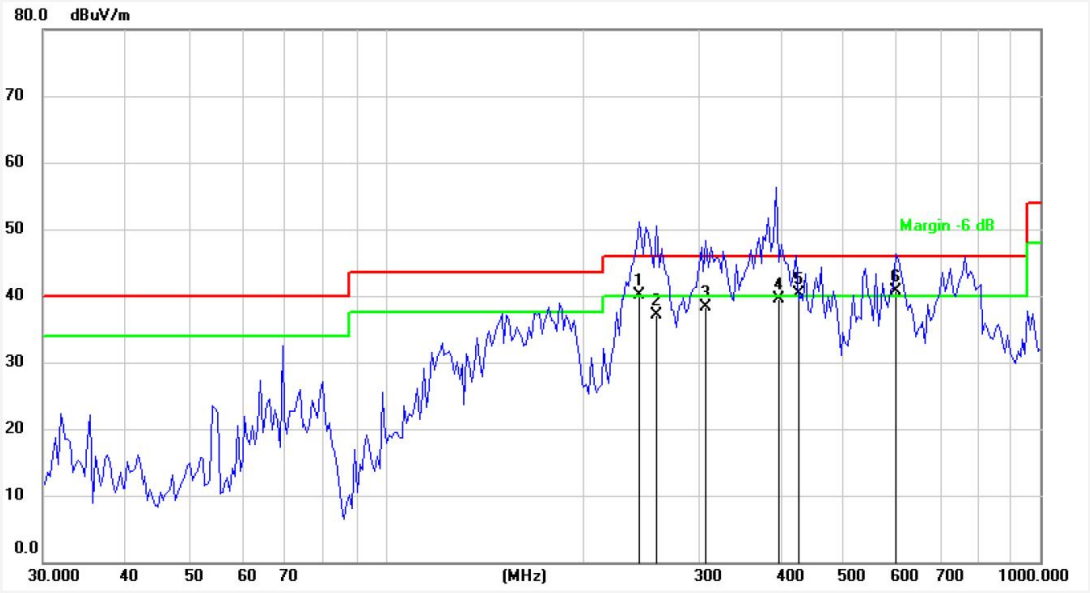
The test results are listed in Section 3.6.

3.6. Test Results

PASS

The test curves are shown in the following pages.

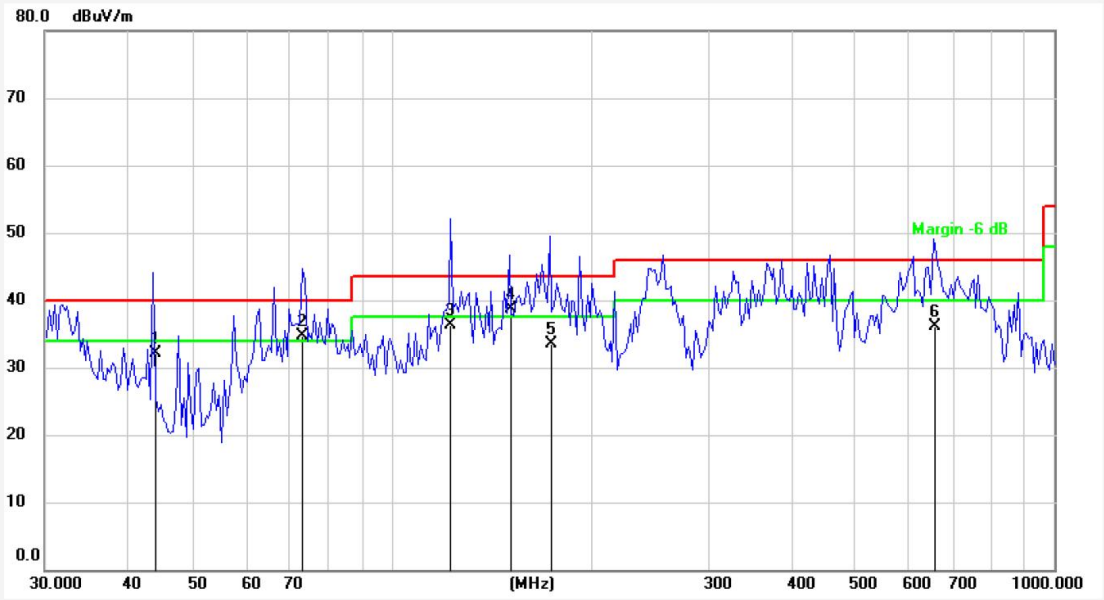
Test item:	**Radiation Test**	**Polarization:**	**Horizontal**
Standard:	**(RE)FCC Part 15 Subpart B**	**Power Source:**	**AC 120V, 60Hz**
Distance:	**3m**	**Temp.(℃)/Hum.(%RH):**	**23.6(℃)/48%RH**



No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	243.7643	56.48	-16.33	40.15	46.00	-5.85	QP			
2	259.2338	53.03	-15.84	37.19	46.00	-8.81	QP			
3	308.9126	52.84	-14.63	38.21	46.00	-7.79	QP			
4	394.9745	52.04	-12.54	39.50	46.00	-6.50	QP			
5	423.5403	52.27	-11.97	40.30	46.00	-5.70	QP			
6	601.4265	48.97	-8.25	40.72	46.00	-5.28	QP			

Note: **Result=Reading+Factor Over Limit=Result-Limit**

Test item:	**Radiation Test**	**Polarization:**	**Vertical**
Standard:	**(RE)FCC Part 15 Subpart B**	**Power Source:**	**AC 120V, 60Hz**
Distance:	**3m**	**Temp.(℃)/Hum.(%RH):**	**23.6(℃)/48%RH**



No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	43.7352	49.13	-16.97	32.16	40.00	-7.84	QP			
2	73.3593	56.35	-21.66	34.69	40.00	-5.31	QP			
3	123.0495	56.15	-19.94	36.21	43.50	-7.29	QP			
4	150.5378	59.85	-21.08	38.77	43.50	-4.73	QP			
5	173.2550	53.31	-19.75	33.56	43.50	-9.94	QP			
6	656.5300	43.90	-7.78	36.12	46.00	-9.88	QP			

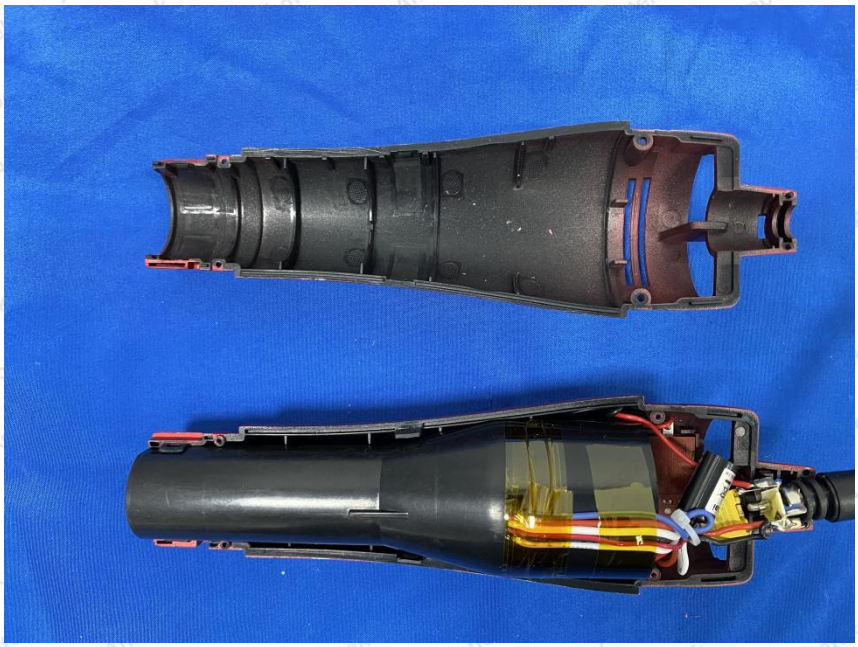
Note: **Result=Reading+Factor Over Limit=Result-Limit**

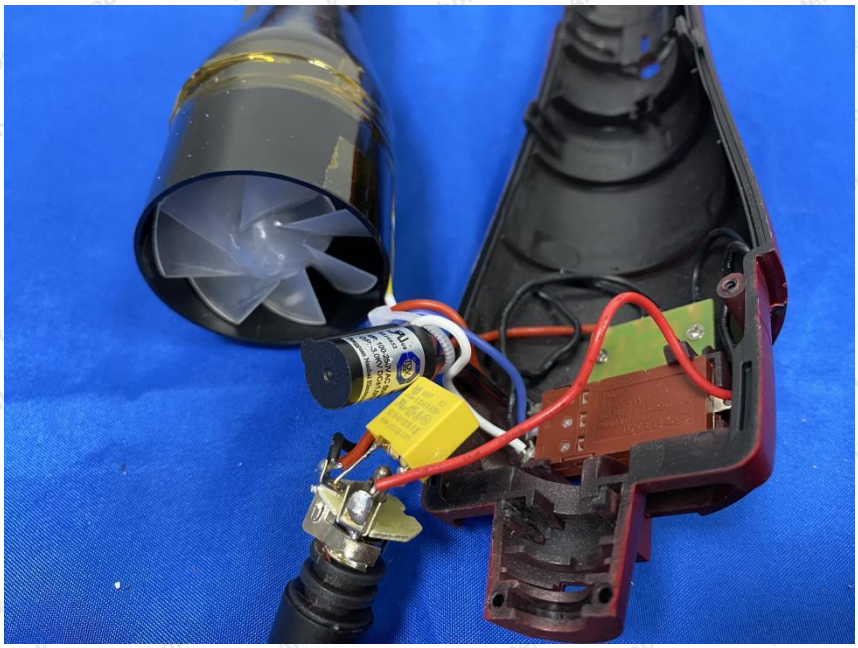
APPENDIX I -- TEST SETUP PHOTOGRAPH

Photo of Power Line Conducted Emission Test

Photo of Radiated Emission Test

APPENDIX II -- Photo documentation





---------- End of Report ----------

ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

Verification of Conformity

LVD Directive 2014/35/EU

Certification No. : QTS800122019
Test Report Ref. No. : 61.11.22.0061.01

Holder Of Certificate : Dongguan Kangya Technology Co., Ltd
Room 101, No. 2, qinghutou Renmin Road, Tangxia Town, Dongguan City, Guangdong Province

Factory : Dongguan Kangya Technology Co., Ltd
Room 101, No. 2, qinghutou Renmin Road, Tangxia Town, Dongguan City, Guangdong Province

Product: Blower Terahertz
Model No. : See model list
Rating: 110-240VAC, 50/60Hz, Class II, Others see model list

Standards : EN 60335-2-23:2003+A1:2008+A11:2010+AC:2012+A2:2015
EN 60335 1:2012+AC:2014+A11:2014+A13:2017+A1:2019+A14:2019+A2:2019
EN 62233:2008+AC:2008

The statement is based on a single evaluation of one sample of above mentioned products. It does not imply an assessment of the whole production and does not permit the use of the test lab. Logo.

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in thisreport.The applicant should hold the whole technical report at disposal of the competent all the right.

GUANGZHOU QUALITY TECHNOLOGY SERVICE CO. LTD. AUTHORIZED

Issued Date: 2022-03-02

Helen Li
Chief Director

CE **After preparation of the necessary technical documentation as well as the conformity declaration the required CE mark can be affixed on the product. Other revelent directives have to be observed.**

Guangzhou Quality Technology Service Co., Ltd.
Website: www.qts-global.com
E-mail : info@qts-global.com
Room 106, R&D Center, No.11, Nanyunwu Road, High-tech Industry Development Zone, Guangzhou, Guangdong, China
Tel :020-8251 2836

ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

Verification of Conformity

LVD Directive 2014/35/EU

Original Registration (Report) No.: 61.11.22.0061.01

Model list

Model	Rating	Power (W)
FKY00089	110-240V~, 50/60Hz	750W
FKY00090	110-240V~, 50/60Hz	1500W
FKY00091	110-240V~, 50/60Hz	1500W

GUANGZHOU QUALITY TECHNOLOGY SERVICE CO.,LTD. AUTHORIZED

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TCT 通测检测 TESTING CENTRE TECHNOLOGY

Safety Data Sheet（SDS）

Prepared For:	Dongguan Kangya Technology Co., Ltd. 5th Floor, Building 2, No. 7 Longtian Road, Qinghutou, Tangxia Town, Dongguan City
Product Name:	Crystal tube
Model:	6.0/7.0
Trade：	FKY
Prepared By:	Shenzhen TCT Testing Technology Co., Ltd. 2101,2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Street, Bao'an District, Shenzhen
No.:	TCT220621W009

Checked by

Justin

Approved by

Ryan Zhang
Technical Manager

Section 1- Chemical Product & Company Identification

(a) Product identifier

Product Name	Crystal tube
Model	6.0/7.0

(b) Relevant identified uses of the substance or mixture and uses advised against

Recommended Use	No information available
Uses advised against	No information available

(c) Details of the supplier of the safety data sheet

Supplier	Dongguan Kangya Technology Co., Ltd.
Address	5th Floor, Building 2, No. 7 Longtian Road, Qinghutou, Tangxia Town, Dongguan City
Contact Person	Chengyantian
Phone	+86 18026604651
Fax	---
E-mail	ky@fukangya.cn

(d) Emergency telephone number

+86 18026604651

Section 2- Hazards Identification

(a) Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

(b) Label elements, including precautionary statements

Symbols/Pictograms	None
Signal word	None
Hazard Statements	Not applicable
Precautionary Statements	Not applicable

(c) Other hazards

No information available

Section 3- Composition/Information on Ingredients

(a) Mixtures

Chemical Name	CAS No.	CONTENT%
Silicon dioxide(SiO_2)	7631-86-9	79.68
Boron oxide(B_2O_3)*	1303-86-2	13.15
Aluminum oxide(Al_2O_3) *	1344-28-1	2.28
Ferric oxide(Fe_2O_3) *	1309-37-1	0.041
Calcium oxide(CaO) *	1305-78-8	0.20
Sodium oxide(Na_2O) *	1313-59-3	4.10
Potassium oxide(K_2O) *	12136-45-7	0.05

Remark: *=The substance in this component is represented as an oxide and does not imply its presence.

Section 4- First Aid Measures

(a) Description of first aid measures

General advice In case of accident or unwellness, seek medical advice immediately

Inhalation If fumes or combustion products are inhaled, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell

Ingestion Give water to rinse out mouth, then drink plenty of water, vomiting, and go to a doctor

Eye contact Keep eyelids apart and away from eye and moving the eyelids by lifting the upper and lower lids occasionally, flush eyes with plenty of water or saline water for at least 15 minutes, call a physician if irritation persists.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.

(b) Most important symptoms and effects, both acute and delayed

No information available

(c) Indication of any immediate medical attention and special treatment needed

Treat symptomatically

Section 5- Fire Fighting Measures

(a) Extinguishing media

Suitable extinguishing media	Water, Dry powder, CO_2, Foam
Unsuitable extinguishing media	No information available

(b) Special hazards arising from the substance or mixture

No information available

(c) Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear;
Prevent, by any means available, spillage from entering drains or water courses;
Use water delivered as a fine spray to control fire and cool adjacent area.

Section 6- Accidental Release Measures

(a) Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation, especially in confined areas. Do not breathe dust/fume/gas/mist/vapors/spray.

(b) Environmental precautions

Prevent product from entering drains

(c) Methods and material for containment and cleaning up

Pick up and transfer to properly labeled containers. Avoid generation of dust

Section 7- Handling and Storage

(a) Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Avoid generation of dust. Do not breathe dust/fume/gas/mist/vapors/spray

(b) Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture and fire. Store away from Oxidant, acids, halogen, Equipped with corresponding varieties and number of fire equipment and leakage emergency treatment equipment.

Section 8 - Exposure Controls/Personal Protection

(a) Exposure controls

Engineering Controls	Ensure adequate ventilation, especially in confined areas

(b) Personal protective equipment

Personal protective equipment	Respiratory Protection: Special protection is generally not required, but if exposed to dust, it is recommended to wear self absorption filter dust masks
	Skin Protection: Wear suitable protective clothing and gloves
	Eye Protection: Not necessary under normal conditions. Wearing chemical safety protective glasses if necessary
Hygiene Measures	Wash hands or take a shower after working

(c) Environmental exposure controls

Avoid release to the environment

Section 9- Physical and Chemical Properties

Appearance& Form	Colorless transparent solid
Odor	Odorless
pH, with indication of the concentration	No data
Melting/freezing point	No data
Boiling Point, initial boiling point and Boiling range	No data
Flash Point	No data
Evaporation rate	No data
Flammability (soil, gas)	No data
Upper/lower flammability or explosive limits	No data
Vapor pressure	No data
Vapor Density (Air = 1)	No data

Density/relative density	No data
Solubility in Water	Insoluble in water.
Autoignition temperature	No data
Decomposition temperature	No data
Kinematic viscosity	No data
Dynamic viscosity	No data
Explosive properties	No data
Oxidizing properties	No data

Section 10 – Stability and Reactivity

(a) Reactivity

Stable under normal conditions

(b) Chemical stability

Stable under recommended storage conditions

(c) Possibility of hazardous reactions

None under normal processing

(d) Conditions to avoid

No information available

(e) Incompatible materials

No information available

(f) Hazardous decomposition products

No information available

Section 11 – Toxicological Information

(a) Information on toxicological effects

Acute toxicity	Not classified
Skin corrosion/irritation	Not classified
Serious eye damage/eye irritation	Not classified
Sensitization	No sensitization responses were observed

Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
STOT - single exposure	Not classified
STOT - repeated exposure	Not classified
Aspiration hazard	Not classified

Section 12-Ecological Information

Toxicity	No information available
Persistence and degradability	No information available
Bioaccumulative potential	No information available
Mobility in soil	No information available
Other adverse effects	No information available

Section 13 – Disposal Considerations

Waste treatment methods

Product disposal recommendation: Observe local, state and federal laws and regulations.

Packaging disposal recommendation: Containers may be recycled or re-used. Observe local, state and federal laws and regulations.

The potential effects on the environment and human health of the substances used in material; the desirability of not disposing of waste material as unsorted municipal waste and of participating in their separate collection so as to facilitate treatment and recycling;

Section 14 – Transport Information

UN Number	Not classified
Proper shipping name	Not classified
Hazard Class	Not classified
Packing Group	Not classified
Environmental hazards	Not classified
Special precautions	No information available
Transport in bulk according to Annex II of MARPOL 73/78	Not applicable

and the IBC Code

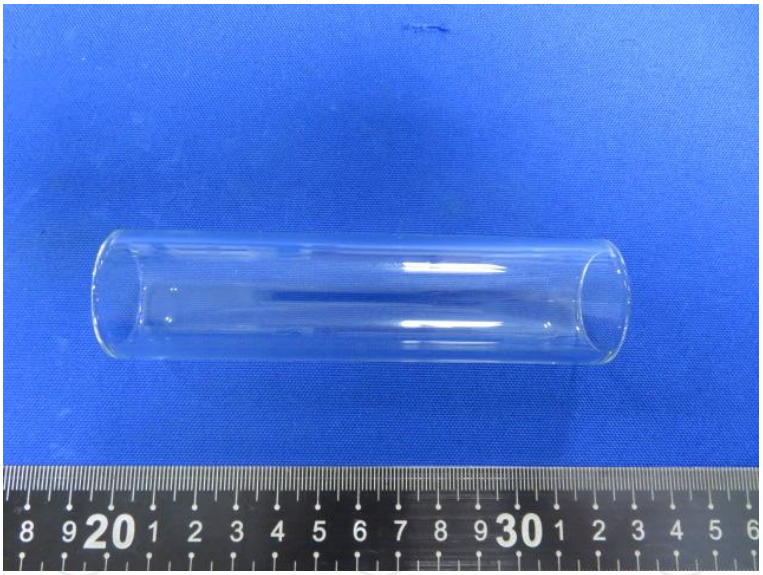
Section 15 – Regulatory Information

Safe, health and environment regulations/ legislation specific for the substance or mixture
International laws/ regulations
Tags according to EU guidelines
The product should follow the relevant regulations of EU Directive/Hazardous substances regulations

Section 16 – Additional Information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. Although reasonable precautions have been taken in the preparation of the data contained herein, it is offered solely for your information, consideration and investigation. This material safety data sheet provides guidelines for the safe handling and use of this product; it does not and cannot advise on all possible situations, therefore, your specific use of this product should be evaluated to determine if additional precautions are required.

The data/information contained herein has been reviewed and approved for general release on the basis that this document contains no export controlled information.



******End of document******

复达检测集团
FUDA ANALYTICAL TESTING GROUP

Test Report

Sample Name	**7.0 Terahertz blower**
Client	**Dongguan Kangya Technology Co., Ltd.**
Report Number	**FT-20220504009-En**

Guangzhou Fuda Testing Technology Research Institute

Address：1004, Zone A, Building 1, Hailunburg Creative Park, Shawan Town, Panyu District, Guangzhou, China. Service Hotline：021-61996230 E-mail:fudan.edu@fudanfuxin.com

Sample Name	7.0 Terahertz blower		
Sample Quantity	1	Sample Batch	/
Sample Status	Intact	Sample Number	FT220504009
Client	Dongguan Kangya Technology Co., Ltd.		
Communication Information of Client	Address No. 7, Longtian Road, Qinghutou, Tangxia Town, Dongguan City		
Test Category	Commission Test		
Sample Arrival Date	2022.05.04		
Test Cycle	2022.05.04—2022.05.31		
Standards and Methods	Please refer to next page(s).		
Test Results	This report only provides the measured values. See the summary page of test results in this report for details.		
Remarks	Model：FKY00098		

Drafter：张强 Signer：

Reviewer：张志新 Issued Date：2022-05-31

Test Result(s):

No.	Test item	Test Result	Unit	Test Method
1	Negative oxygen ion concentration	325289	pcs/cm^3	Negative oxygen ion meter

The End of the Report

Additional Instructions of the Report

1. The Report would be invalid without “Special Seal for Report of Guangzhou Fuda Testing Technology Research Institute”.
2. Any institution is not permitted to duplicate the report, if needed please submit a formal application.
3. Any objection to the report should be interposed in 10 days from the date of report is issued. Overdue would not be admissible.
4. The report is only responsible for the sample provided by the applicant. The sample will be kept for30 days after the date of report is issued.
5. The company shall perform the duty of confidentiality to the technical documents, report, contract documents and other business secrets of the applicant.
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