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EMC Test Report

Client Name : ACREL CO., LTD.

Address : No.253, Yulv Road, Jiading District, Shanghai, China

Product Name : Gateway

Date : Aug. 21, 2020

Shenzhen Anbotek Compliance Laboratory Limited
*Approved**



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TEST REPORT

ACREL CO., LTD.

Manufacturer : Jiangsu Acrel Electrical Manufacturing. Co., Ltd.

Product Name : Gateway

Model No. : Anet

Trade Mark : Acrel

Rating(s) : DC 24V

Test Standard(s) : EN IEC 61000-6-4: 2019;

EN IEC 61000-6-2: 2019;

(IEC 61000-4-2; IEC 61000-4-3; IEC 61000-4-4; IEC 61000-4-5; IEC 61000-4-6; IEC 61000-4-8)

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. 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. Also, this report shows that the EUT to be technically compliant with the EN IEC 61000-6-4, EN IEC 61000-6-2 requirements.

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:	Aug. 11, 2020
Data of Tolotek Anbores Anboresk Anboresk	Aug. 11, 20, 2020
Date of Test:	Aug. 11~20, 2020
	rek / Amborek
	Winnie Huang
Prepared By:	hoos Andrew Andrew Andrew
And tek shortek Anbo. ak hotek	(Engineer / Winnie Huang)
	Andrew Andrew Andrew Andrew
	Wen wang
Reviewer:	An otek Motek Anbo
tek nbotek Anbors A. Cotek Anbor	(Supervisor / Well Wang)
	Via Vara
	King Kong Jin
Approved & Authorized Signer:	Mun J Outer William
ak botek Anbote Anb otek anbotek	(Manager / KingKong Jin)

Shenzhen Anbotek Compliance Laboratory Limited



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1. General Information

1.1. Client Information

Applicant	: ACREL CO., LTD.	Anbo
Address	: No.253, Yulv Road, Jiading District, Shanghai, China	k
Manufacturer	: Jiangsu Acrel Electrical Manufacturing. Co., Ltd.	oter
Address	: No.5, Dongmeng Road, Nanzha Street, Jiangyin City, Jiangsu Province, China	Anbo
Factory	: Jiangsu Acrel Electrical Manufacturing. Co., Ltd.	r P2
Address	: No.5, Dongmeng Road, Nanzha Street, Jiangyin City, Jiangsu Province, China	hotek

1.2. Description of Device (EUT)

Product Name	:	Gateway
Model No.	:	Anet Andrew Andrew Andrew Andrew Andrew Andrew Andrew Andrew
Trade Mark	:	Acrel
Test Power Supply	:	DC 24V
Test Sample No.	:	1-1-1 Dotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
Product Description	:	Adapter: N/A
Remark: (1) For a m	ore	e detailed features description, please refer to the manufacturer's specifications

1.3. Auxiliary Equipment Used During Test

or the User's Manual.

	-11 A 11	100		100	7/1/			10,737	
³ / ₅	N/A		16K	Anbore	Ams	Anbotek	Anbo	aborek	Anbo
- 1								16.7	



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1.4. Description of Test Mode

Pretest Mode	Description				
Mode 1	notek Anborek Anborek Anborek Anborek Anborek				

Block Diagram of Test Setup For Mode 1



1.5. Test Summary

Test Items	Test Mode	Status
Power Line Conducted Emission Test (150KHz To 30MHz)	Mode 1	nboten P Anti-
Communication Line Conducted Emission Test (150KHz To 30MHz)	Mode 1	Anbot P A
Radiated Emission Test(30MHz To 1000MHz)	Mode 1	An Prek
Electrostatic Discharge immunity Test	Mode 1	lek bipolek
RF Field Strength susceptibility Test	Mode 1	boten P Anbu
Electrical Fast Transient/Burst Immunity Test	Mode 1	AnbareP Ar
Surge Immunity Test	Mode 1	Anb Prek
Injected Currents Susceptibility Test	Mode 1	ek Photes
Magnetic Field Susceptibility Test	Mode 1	pores P Amb
Voltage Dips and Interruptions Test	Antotell	And Andrew
P) Indicates "PASS". N) Indicates "Not applicable".	otek Anborek	Aupotek

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400-003-0500 www.anbotek.com



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1.6. Test Equipment List

Conducted Emission Measurement

V. Clar	- No.	140 .	1400	Contract of the contract of th		(MO.
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
bee	L.I.S.N.	Vup.	abotek An	Do. b.	hotek Anb	View Vive
1.	Artificial Mains Network	Rohde & Schwarz	ENV216	100055	Nov. 04, 2019	1 Year
2. Anbore	L.I.S.N. Artificial Mains Network	Schwarzbeck	NSLK 8127	8127386	Nov. 04, 2019	1 Year
3	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Nov. 04, 2019	1 Year
4.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Nov. 04, 2019	1 Year
5.	Software Name EZ-EMC	Ferrari Technology	ANB-03A	N/A	N/A	N/A

Telecom Port Conduct Emission Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
_ 1. ^P	ISN	Schwarzbeck	NTFM 8158	#172	Nov. 04, 2019	1 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Nov. 04, 2019	1 Year
3.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Nov. 04, 2019	1 Year
4.00	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
² 1.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Nov. 04, 2019	1 Year
2.	Pre-amplifier	Schwarzbeck	BBV-9745	9745-075	Nov. 04, 2019	1 Year
3.	Bilog Broadband Antenna	SCHWARZBECK	VULB 9163	01109	Nov. 01, 2019	1 Year
4.	Software Name EZ-EMC	Ferrari Technology	EMEC-3A1	N/A	N/A	N/A

Electrostatic Discharge Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
ATOO!	ESD Simulators	emtest	ESD NX30.1	11891	Mar. 07, 2020	1 Year

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R/S Immunity Measurement

70 111	initiality wicasurcine	The Day	704	- MP	AL.	wo.
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
Anpore	Signal Generator	al Generator Agilent		MY4818065 6	Nov. 04, 2019	1 Year
2,	Amplifier	Micotoop	MPA-80-100 0-250	MPA190309 6	Nov. 04, 2019	1 Year
3	Amplifier	Micotoop	MPA-1000-6 000-100	MPA190312 2	Nov. 04, 2019	1 Year
4	Log-Periodic Antenna	Schwarzneck		00992	Apr.17, 2020	1 Year
5	Horn Antenna	Horn Antenna Instruments corporation		351600	Nov. 01, 2019	1 Year
6	Power Sensor	Sensor Agilent		MY4149890 6	Nov. 04, 2019	1 Year
7	Power Sensor Agilent		E9301A	MY4149808 8	Nov. 04, 2019	1 Year
8	Power Meter	Agilent	E4419B	GB4020290 9	Nov. 04, 2019	1 Year
9	Field Probe	ETS-Lindgren	HI-6006	00212747	Apr.17, 2020	1 Year
10	software	EMtrace	EM 3	N/A	N/A	N/A

Electrical Fast Transient/Burst Immunity Measurement

		~() ~	3.7		1-6	
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
¢1.1	EFT Burst Simulator	PRIMA	EFT61004B	PR10114282	Nov. 04, 2019	1 Year
1.2	EFT-Clamp	PRIMA	EFT-Clamp	Par Totek	Nov. 04, 2019	1 Year
2.1	EFT Burst Simulator	TESEQ	NSG 3060	1480	Nov. 04, 2019	1 Year
2.2	CDN	TESEQ	CDN 3061	1408	Nov. 04, 2019	1 Year

Surge Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
ote1.	Surge Generator	TESEQ	NSG 3060	1480	Nov. 04, 2019	1 Year
2	CDN	TESEQ	CDN 3061	1408	Nov. 04, 2019	1 Year
3.	Telecom port surge generator	PMI Amort	TW101	190411	Apr.17,2020	1 Year

Injected Currents Susceptibility Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
tek 1.	C/S Conducted Immunity Test System	FRANKONIA	CIT-10	126A1196/20 12	Nov. 04, 2019	1 Year
2.	CDN	FRANKONIA	CDN - M2+ M3	A2210178/20 12	Nov. 04, 2019	1 Year
3.	6dB Attenuator	FRANKONIA	DAM 26W	1172202	Nov. 04, 2019	1 Year
4.	CIT-10	FRANKONIA	Version1.1.7	N/A	Sotel N.A Anto	N/A
, _e , 5.	EM-Clamp	FRANKONIA	EMCL-20	18101728-01 03	May.17,2020	1 Year

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M/S Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
пеш	Equipment	Manufacturei	Model No.	Serial NO.	Last Gal.	Cal. Illicival
nboten 1.	Power Frequency Magnetic Field Generator	EVERFINE	EMS61000-8 K	906002	Nov. 04, 2019	1 Year

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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, September 27, 2019.

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, March 07, 2019.

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



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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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2. Power Line Conducted Emission Test(DC Mains Power Ports)

2.1. Test Standard and Limit

	Test Standard	EN IEC 61000-6-4	pir.	Anboten	Ann	Anbotek	Vupo,
--	---------------	------------------	------	---------	-----	---------	-------

Limits for conducted emissions

	Fraguanay	At mains te	erminals (dBμV)
T4 ::4	Frequency	Quasi-peak Level	Average Level
Test Limit	0.15 ~ 0.50	79	66
	0.50 ~ 30.00	73	60

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 61000-6-4 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.

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2.5. Test Procedure

The EUT is put on the plane 0.8m 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 61000-6-4 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.



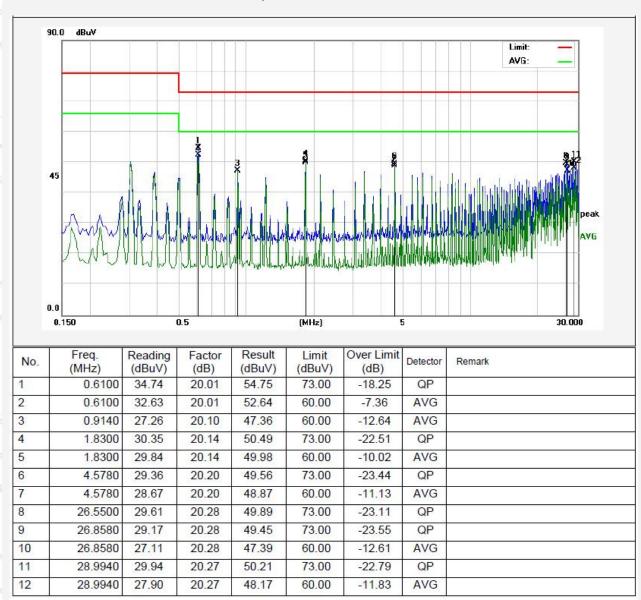
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Conducted Emission Test Data

Test Site: 1# Shielded Room

DC 24V Test Specification: Positive Comment:

Temp.: 22.5℃ Hum.: 58%



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



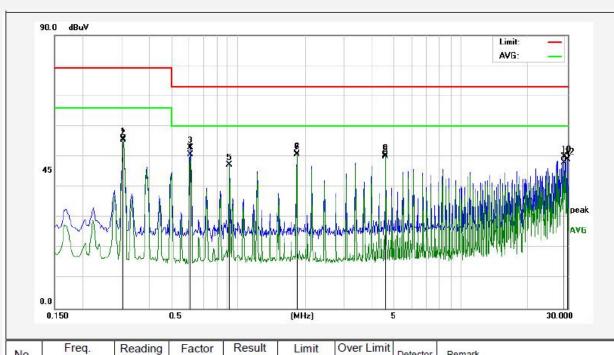
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Conducted Emission Test Data

Test Site: 1# Shielded Room

DC 24V Test Specification: Comment: Negative

Temp.: 22.5℃ Hum.: 58%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.3060	36.02	19.89	55.91	79.00	-23.09	QP	
2	0.3060	35.49	19.89	55.38	66.00	-10.62	AVG	
3	0.6100	32.93	20.01	52.94	73.00	-20.06	QP	
4	0.6100	30.71	20.01	50.72	60.00	-9.28	AVG	
5	0.9140	27.36	20.10	47.46	60.00	-12.54	AVG	
6	1.8300	30.91	20.14	51.05	73.00	-21.95	QP	
7	1.8300	30.56	20.14	50.70	60.00	-9.30	AVG	
8	4.5780	30.36	20.20	50.56	73.00	-22.44	QP	
9	4.5780	29.95	20.20	50.15	60.00	-9.85	AVG	
10	28.9900	29.87	20.27	50.14	73.00	-22.86	QP	
11	28.9900	27.88	20.27	48.15	60.00	-11.85	AVG	
12	29.9060	28.87	20.27	49.14	73.00	-23.86	QP	

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

Code:AB-EMC-02-b

400-003-0500



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3. Power Line Conducted Emission Test (Wired Network Ports)

3.1. Test Standard and Limit

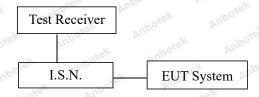
Test Standard EN IEC 61000-6-4

Limits for conducted emissions

	Frequency	At mains to	erminals (dBμV)
T41 in-14	(MHz)	Quasi-peak Level	Average Level
Test Limit	0.15 ~ 0.50	97 ~ 87*	84 ~ 74*
	0.50 ~ 30.00	87	obotek Ar74

Remark: (1) The lower limit shall apply at the transition frequencies.

3.2. Test Setup



3.3. 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.

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.

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⁽²⁾ The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.



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3.5. Test Procedure

The EUT is put on the plane 0.8 m high above the ground by insulating support and connected to the wired network ports through Impedance Stabilization Network(ISN). and it is investigated to find out the maximum conducted emission according to the EN IEC 61000-6-4 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 checked.

All the test results are listed in Section 3.6.

3.6. Test Results

PASS

The frequency range 150kHz to 30MHz is investigated

The test curves are shown in the following pages.



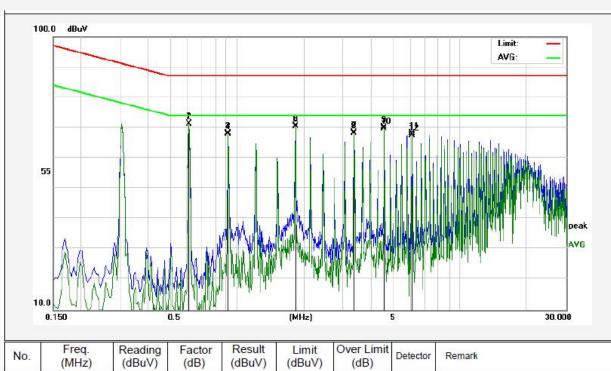
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Conducted Emission Test Data

Test Site: 1# Shielded Room

DC 24V Test Specification: Comment: Signal Line

Temp.: 22.5℃ Hum.: 58%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.6100	61.73	9.53	71.26	87.00	-15.74	QP	
2	0.6100	61.69	9.53	71.22	74.00	-2.78	AVG	
3	0.9180	58.58	9.52	68.10	87.00	-18.90	QP	
4	0.9180	58.38	9.52	67.90	74.00	-6.10	AVG	
5	1.8340	61.08	9.51	70.59	87.00	-16.41	QP	
6	1.8340	60.83	9.51	70.34	74.00	-3.66	AVG	
7	3.3580	58.79	9.51	68.30	87.00	-18.70	QP	
8	3.3580	58.57	9.51	68.08	74.00	-5.92	AVG	
9	4.5820	60.78	9.52	70.30	87.00	-16.70	QP	
10	4.5820	60.23	9.52	69.75	74.00	-4.25	AVG	
11	6.1060	58.55	9.52	68.07	87.00	-18.93	QP	
12	6.1060	58.05	9.52	67.57	74.00	-6.43	AVG	

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

Code:AB-EMC-02-b

400-003-0500 www.anbotek.com



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3. Radiated Emission Test

3.1. Test Standard and Limit

Test Standard	EN IEC 61000-6-4	bus sek	anbotek	AUDO	hotek	Anbore
103t Otaridard	LIVILO 01000-0-4					100

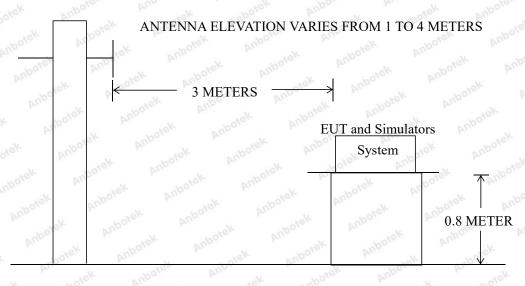
Radiated Emission Test Limit

Test Limit	Frequency (MHz)	DISTANCE (Meters)	FIELD STRENGTHS LIMIT (dBμV/m)	
	30 ~ 230	Anbotel 3 Anbo	50 M	
	230 ~ 1000	ok bo3k Anbox	57× mbc	

Remark: (1) The smaller limit shall apply at the combination point between two frequency bands.

(2) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the EUT.

3.2. Test Setup

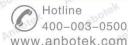


GROUND PLANE

3.3. EUT Configuration on Measurement

The EN 61000-6-4 regulations test method must be used to find the maximum emission during radiated emission measurement.

Shenzhen Anbotek Compliance Laboratory Limited





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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 a turn table which is 0.8 meter high above the ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Bilog antenna is used as a receiving antenna. Both horizontal and vertical polarization of the antenna are set on test.

The bandwidth of the Receiver (ESCI) is set at 120kHz.

The EUT is tested in 9*6*6 Chamber.

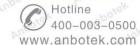
The test results are listed in Section 3.6.

3.6. Test Results

PASS

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

The test curves are shown in the following pages.



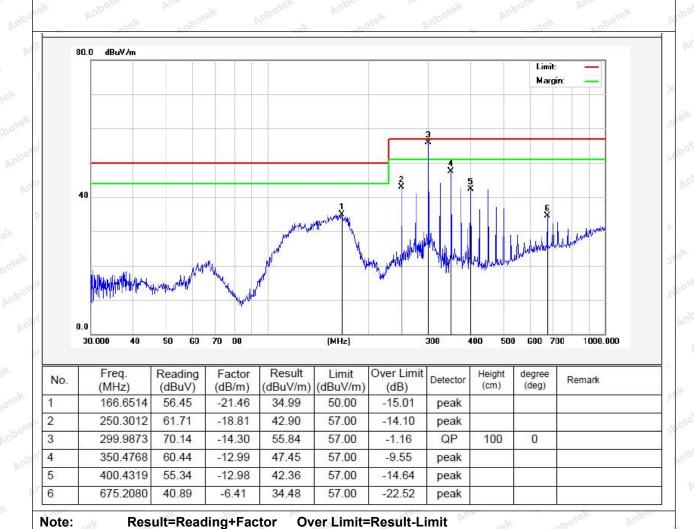


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Test item: **Radiation Test** Polarization: Horizontal

Standard: (RE)EN61000-6-4 **Power Source: DC 24V**

Distance: 3m Temp.(℃)/Hum.(%RH): 24.1(°C)/50%RH



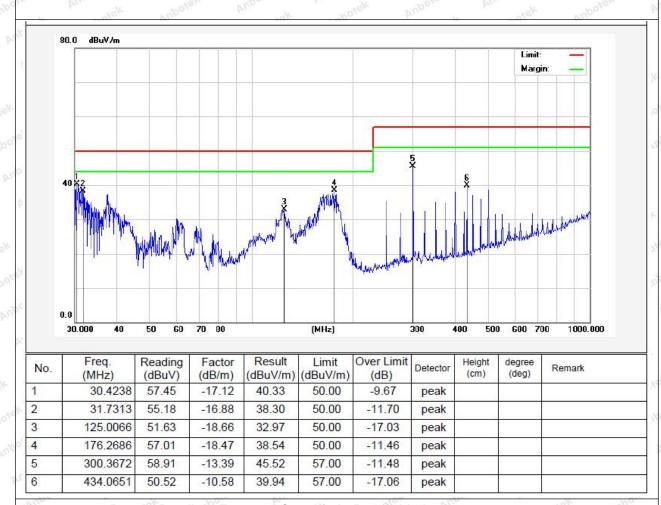


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Test item: **Radiation Test** Polarization: Vertical

Standard: (RE)EN61000-6-4 **Power Source: DC 24V**

Distance: 3m Temp.(°C)/Hum.(%RH): 24.1(°C)/50%RH



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

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4. Electrostatic Discharge Immunity Test

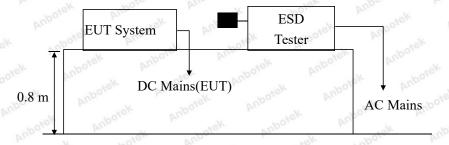
4.1. Test Standard and Level

Test Standard:	EN IEC 61000-6-2 (IEC 61000-4-2)			Anbotek	Aupo.		
Performance Criterion:	В	nbotek	Anbore	P.L.	botek	Anbotek	PUD.
Severity Level: 3 / Air Discharge: ±8kV	, Level:	2 / Contact	Discharge	: ±4kV	abotek	Anborer	P

Test Level

Lovel	Test Voltage			Test Voltage			
Level	Co		Air Disc	charge (k\	')		
Ago Ago	anbotek	Anbon ±2	An abotek	Anboten	Vup.	±2	potek A
2.	k Anbotek	Amber ±4	anbotek	Anbore	K Vivo	±4	Anbotek
Ambore 3.	otek Anboti	±6	k anbotel	Anbor	rok Vu	±8	Anbotek
4.	abotek Ant	±8	otek Anbe	tek Aut	o.	±15	Anboter
Amb X.	aborek	Special	hotek A	potek	Anbo LekS	pecial	k Aupo

4.2. Test Setup



4.3. EUT Configuration on Measurement

The following equipments are installed on electrostatic discharge immunity measurement to meet EN IEC 61000-6-2 requirements and operating in a manner which tends to maximize its emission characteristics in a normal application.

4.4. Operating Condition of EUT

- 4.4.1. Setup the EUT as shown on Section 4.2.
- 4.4.2. Turn on the power of all equipments.
- 4.4.3. After that, let the EUT work in test mode measure it.

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4.5. Test Procedure

4.5.1. 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

4.5.2. Contact Discharge:

All the procedure shall be same as Section 4.5.1. except that the tip of the discharge electrode shall touch the EUT before the discharge switch is operated.

4.5.3. 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.

4.5.4. 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.

4.6. Test Results

PASS

Please refer to the following page.

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Electrostatic Discharge Test Results

Air discharge :	±8.0kV	Temperature :	24.1℃
Contact discharge :	±4.0kV	Humidity :	46%
Power Supply :	DC 24V	Expert conclusion :	A Anbotek Ant
Number of discharge :	10 k Anbotek Anbote	Test Result:	⊠ Pass ☐ Fail
Anborek Anbore	Anbotek Anbotek Anbo	potek Anbotek An	botek Anbotek
Anborek Anborek Anborek Anborek	ocation	Kind A-Air Discharge C-Contact Discharge	Result
DC Port Andorrek	4 points	Anboi C Anboi	☑A □B □C □D
Slot	4 points	otek Anaotek An	☑A □B □C □D
LAN Port	2 points	Anbotek C Anbotek	⊠A □B □C □D
Metal	4 points	Anbotek C Anbote	⊠A □B □C □D
Screw	6 points	stek Antolek Ant	⊠A □B □C □D
HCP Amborek	4 points	nbotek A botek	ØA □B □C □D
VCP of the front	4 points	Anbotek C Anbotek	⊠A □B □C □D
VCP of the rear	4 points	Anbotek Anbo	⊠A □B □C □D
VCP of the left	4 points	tootek Cootek	☑A □B □C □D
VCP of the right	4 points	Anbotek C Anbotek	☑A □B □C □D
ek Anboren Anb	otek Vupotek Vupor	Anbotek Anbotes	tek Anbotek
botek Anbotek	Anbotek Anbotek Anbo	ek Anbotek Anb	ibotek Anbotek
Remark: Discharge shou and Vertical Coupling Plan	lld be considered on Contact an ne (VCP).	d Air and Horizontal Coเ	ipling Plane (HCP)

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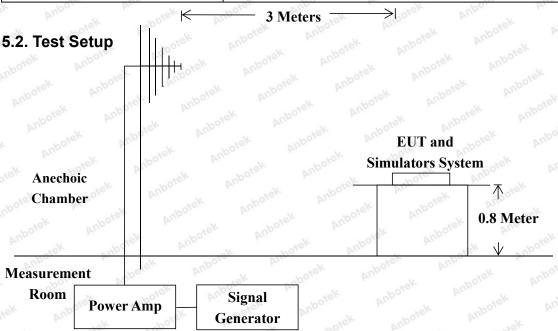
5. RF Field Strength Susceptibility Test

5.1. Test Standard and Level

Test Standard:	EN IEC 61000-6-2 (IEC 61000-4-3)
Required Performance:	A Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
Frequency Range:	80MHz to 1000MHz/ 1.4GHz to 6.0GHz
Field Strength:	10 V/m, 3V/m
Modulation:	1kHz Sine Wave, 80%, AM Modulation
Frequency Step:	1 % of preceding frequency value
Polarity of Antenna:	Horizontal and Vertical
Test Distance:	3 m Anbore Andrew Anborek Anborek Ar
Antenna Height:	1.5 m Anborek Anborek Anborek
Dwell Time:	at least 0.5s

Test Level

Level			Field Strength V/m					
otek Anbo	,1.	nbotek	Anbore Al	-bołek	Anborek	Anbo	nnbotek	
Anboten Ar	2.	Anbotek	Pupo,	An abotek	AU/3	k Anbo	k Anbotek	
Anbore	3. hotek	Anborek	Anbo. otek	nbotek	10	And And	otek Anbotek	
Anbore	X.	anbo	ier Aupo	ek anbo	Special	or Air	abotek Anbo	



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Code:AB-EMC-02-b

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5.3. EUT Configuration on Measurement

The following equipments are installed on RF Field Strength susceptibility Measurement to meet EN IEC 61000-6-2 requirements and operating in a manner which tends to maximize its emission characteristics in a normal application.

5.4. Operating Condition of EUT

- 5.4.1. Setup the EUT as shown on Section 5.2.
- 5.4.2. Turn on the power of all equipments.
- 5.4.3. After that, let the EUT work in test mode measure it.

5.5. Test Procedure

The EUT and support equipment, which are placed on a table that is 0.8 meter above ground and the testing was performed in a fully-anechoic chamber. The testing distance from antenna to the EUT was 3 meters.

- 1) 80 MHz to 1000 MHz the field strength level was 10V/m, 1.4 GHz to 6.0 GHz the field strength level was 3V/m.
- 2) The frequency range is swept from 80 MHz to 1000 MHz, 1.4 GHz to 6.0 GHz with the signal 80% amplitude modulated with a 1kHz sine wave.
- 3) The dwell time at each frequency shall be not less than the time necessary for the EUT to be able to respond, but shall in no case be less than 0.5s.
- 4) The test was performed with the EUT exposed to both vertically and horizontally polarized fields on each of the four sides.

5.6. Measuring Results

PASS

Please refer to the following page.



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RF Field Strength Susceptibility Test Results

Field Strength:	10 V/m, 3V/m	Temperature :	24.1℃	P.U.	nbotek
Expert conclusion:	A Anbotek Anbote	Humidity:	46%	abotek	Anbotel
Power Supply :	DC 24V	Test Result :	⊠ Pass	☐ Fail	Anb
Dwell Time:	1s Array	Anbotek Anbotes	Anbotek	Anbotel	-K P

	Frequency Range	Antenna Polarity	R.F. Field Strength	Azimuth	Result
53	ek Anbores	Anbotek Anbo	hotek Anbotek A	Front	Anbotek Ar
S.	potek Anbotek	poter M	boten And	Rear	☑A □B
	80MHz~1000MHz	H/V	10 V/m (rms)	Left	
	Anbotek Anbote	otek Anbotek	Antotek Anbotek	Right	Anbotek Anbote
	k Anbotek	inbotek Anbot	ek Anbotek Anbo	Front	Anbotek Anbo
	-K hoten	PATE AND ADDRESS OF THE PATE A	otek Anbotek At	Rear	☑A □B
176	1.4GHz~6.0GHz	Anborek	3 V/m (rms)	Left	
	Anbotek Anbote	tek Annabotek	Anbotek Anbu hotek	Right	bu sek abotek
	Anbotek Anbo	nbotek Anbotek	Anbore Anborek Anbor		Anbotek Anbote
e					
м					
þ					rek aboler
	Aupore Aur	ek shotek	Ando	ek anbore	All abote



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6. Electrical Fast Transient/Burst Immunity Test

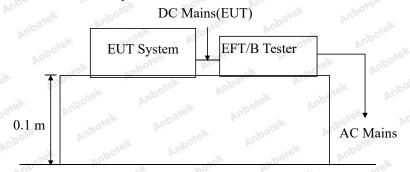
6.1. Test Standard and Level

Test Standard:	EN IE	EN IEC 61000-6-2 (IEC 61000-4-4)			Anborek	Anbo	r. upotel
Performance criterion:	В	anbotek	Anbore	Amaborek	Anborek	Anbe	anbo
Severity Level 2: 1.00kV	hotek.	Anbotek	Anbor	Ar. abotek	Anboter	K Ann	k o

Test Level

Open Circuit Output Test Voltage ± 10%											
Level	On Power Supply Lines	On I/O (Input/Output) Signal data and control lines									
ek Anbote 1. And hotek	0.50 kV	0.25 kV									
potek Anbore 2. And botek	1.00 kV	0.50 kV									
Amborek Ambore Amborek	2.00 kV	1.00 kV									
Anbotek A4. tek anbot	4.00 kV	2.00 kV									
Anborek X nbo tek	Special	Special									

6.2. Test Setup



6.3. EUT Configuration on Measurement

The following equipments are installed on electrical fast transient/burst immunity measurement to meet EN IEC 61000-6-2 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 in Section 6.2.
- 6.4.2. Turn on the power of all equipments.
- 6.4.3. Let the EUT work in test mode and measure it.

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6.5. 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.

6.5.1. 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 DC power lines. Both polarities of the test voltage should be applied during compliance test and the duration of the test is 2 mins.

6.5.2. For signal lines and control lines ports:

Select tests based on product characteristics.

6.5.3. For DC output line ports:

Select tests based on product characteristics.

6.6. Test Results

PASS

Please refer to the following page.





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Electrical Fast Transient/Burst Test Results

Ambient Condition: 2	4.1℃ / 46%	RH Anbores	Expert conclusion	on : A	ipo. Pr	nbotek
Power Supply .: DC 2	4V Ambore	stek Anbotel	Test Result : ⊠	Pass 🔲 I	Fail Anbotek	Anbore
tek Anbotek Anbr	riek Anb	nbotek Anb	otek Anbote	Anbotek	Anbotek	AUD
Inject Line : DC N	Mains	Inject Me	thod: Direct	Inje	ct Time(s): 120	tek
Anborek Line Anborek	Anborek P	olarity	Test Voltag (kV)	je N	Result	botek
AC Line	ek Anbo	rek Anbotek	Anhore	Anborek	Anbotek	Anbo
DC Line	potek A	hb£tek Anbo	1.00kV	Ar botek	ØA □B □C □D	P.
Signal Line	Anbotek	Aupotek	Anbotek Anbo	notek An	ootek Anbot	ek ek
Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek	ek Anbotek	Anbotek Anbotek	Anbotek Anbotek	Anbotek An Anbotek	Anbotek Anbotek



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7. Surge Immunity Test

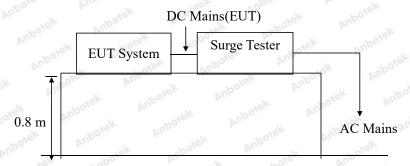
7.1. Test Standard and Level

Test Standard:	EN IEC 61000-6-2 (IEC 61000-4-5)			Vupo.		
Performance criterion:	Bibo	Nabotek	Anbore	And	Anbotek	Vup.
Severity Level 1, Line to Line: 0	.5kV	tek Anbotek	Aupore	k spojek	Anbotek	P

Test Level

Severity Level	Open-Circuit Test Voltage			
Aug Topology William	(kV)			
Anborek Ar 2 rek Anborek Anborek	botek Anbotek 1.0 orek Anbotek A			
oote Anbotek 3. botek	Anborek Anboree 2.0 aborek Anboree			
Anbert Anberek 4. Anbertek	Arboret Anbaret Anbaret			
Anborek X. Anborek	Special			

7.2. Test Setup



7.3. EUT Configuration on Measurement

The following equipments are installed on surge immunity measurement to meet EN IEC 61000-6-2 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.

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7.5. Test Procedure

- 7.5.1. Set up the EUT and test generator as shown on Section 7.2.
- 7.5.2. For line to line coupling mode, provide a 0.5kV 1.2/50us voltage surge (at open-circuit condition) and 8/20us current surge to EUT selected points.
- 7.5.3. At least 5 positive and 5 negative (polarity) tests with a maximum 1/min repetition rate are conducted during test.
- 7.5.4. Different phase angles are done individually.
- 7.5.5. Record the EUT operating situation during compliance test and decide the EUT immunity criterion for above each test.

7.6. Test Results

PASS

Please refer to the following page.



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Surge Immunity Test Results

					10 m
Humidity :	46%	k Anbore. A	Temperatur	e,;\botek	24.1℃
Power Supply :	DC 24V	otek Anbotek	Expert cond	clusion:	A Anborek Anbore
Test Result :	⊠ Pass □] Fail	-k Anbore	tek Anbote	Anborek And
botek Anbotek	Anboyek	Anbotek Anbo	Lotek And	ibotek Ant	otek Anbotek
Location	Polarity	Phase Angle	Number of Pulse	Pulse Voltag (kV)	ge Result
Positive-Negative	hotek ± Anbr	ibotek /Anbotek	5 5	0.5kV	□A ☑B □C □D
Positive-PE	Anborek	Anbotek Anbo	ek Aupo,	ek Anbore	otek Anbotek Ar
Negative-PE	Anbotek	Anbo Ar	potek Ar	potek Am	inbotek Anbotek
Anbotek Anbot	k Aupo	ek Anbotek	Anbotek	Anbotek	Anbotek Anbotek
Anbotek Ant	potek Ar	botek Anboten	Anbotek	Anbotek	Anbot Anbot
Anbore.					



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8. Injected Currents Susceptibility Test

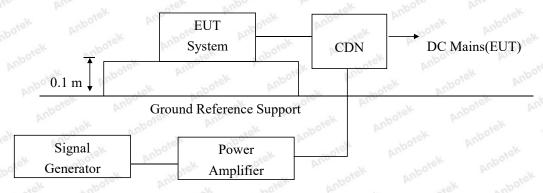
8.1. Test Standard and Level

W _S	Test Standard	EN IEC 61000-6-2 (IEC 61000-4-6)
200	Performance criterion	Arek Anbotek Anbotek Anbotek Anbotek Anbotek
V.	Severity Level 3: 10V (r	ms), (0.15MHz ~80MHz)

Test Level

		Level			F	Field Strength \	/	
Jek J	anboiek	Anbort.	All	Anbolek	Anbe	andbiek	Anbor	bu.
hotek	Anbotek	Ari2.	k abotek	Moder	k Note	k 3nbotek	Anbor	P.
hotek	Anborek	3.	riek Anbotel	Anbore	ak And	otek 10 Anbote	Anbo.	rek
VIII.	k Anbo	X. And	otek anbi	otek Aug	or An	Special	oten Anbe	otek

8.2. Test Setup



8.3. EUT Configuration

The following equipments are installed on currents susceptibility measurement to meet EN IEC 61000-6-2 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.

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8.5. Test Procedure

Set up the EUT, CDN and test generators as shown on Section 8.2.

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 80MHz using 10V 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.

8.5.1. For signal lines and control lines ports:

Select tests based on product characteristics.

8.5.2. For DC output line ports:

Select tests based on product characteristics.

8.6. Test Results

PASS

Please refer to the following page.

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Injected Currents Susceptibility Test Results

	V to 0' Di
Humidity : 46%	Temperature : 24.1℃
Power Supply : DC 24V	Expert conclusion: A
Test Result : ⊠ Pass □ Fail	Anbotek Anbotek Ambotek Anbotek Anbotek
ibotek Anbotek Anbotek Anbotek	Anborek Anbotek Anbotek Anbotek
Frequency Range (MHz) Injected Position	Strength Result
0.15 ~ 80 DC Mains	10V □ C □ D
ek Anborek Anborek Anborek	Anbotek Anbotek Anbotek Anbotek A
Remark: 1. Modulation Signal:1KHz 80% AM	



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9. Magnetic Field Susceptibility Test

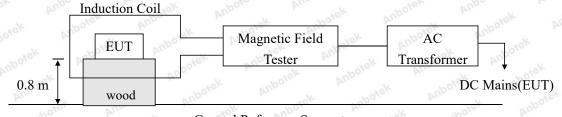
9.1. Test Standard and Level

Test Standard:	EN IEC 61000-6-2 (IEC 61000-4-8)					
Performance Criterion:	A Amborek Anborek Anborek	Anbotek Anbotek An				
Severity Level 4: 30A (n)) Anbotek Anbotek Anbotek Anbote	Anbotek Anbotek				

Test Level

Level	Field Strength A/m		
ek anbotek Anbot An hotek Anbo	er Anborek Anborek Anbore		
otek Anbotek An201 An abotek An	poten Anborek Anborek Anbore		
botek Anbotek 3nbotek	Anbores And Anborek Anbox		
Anbotek Anbotek 4 Anbo	Anborek Anborek Anborek		
Anbotek Anbotek 5. Anbotek	Anbore Anbore Anbore		
k Anbotek AnboteX. Anb	Special		

9.2. Test Setup



Ground Reference Support

9.3. EUT Configuration on Measurement

The following equipments are installed on magnetic field susceptibility measurement to meet EN IEC 61000-6-2 requirements and operating in a manner which tends to maximize its emission characteristics in a normal application.

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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

The EUT is placed in the middle of a induction coil (1*1m), under which is a 1*1*0.1m (high)table, this small table is also placed on a larger table, 0.8 m above the ground. Both horizontal and vertical polarization of the induction coil are set on test, so that each side of the EUT is affected by the magnetic field. Also can reach the same aim by change the position of the EUT.

9.6. Test Results

PASS

Please refer to the following page.



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Magnetic Field Immunity Test Results

			sek nbo
Temperature : 24.1℃	Anbotek Anbotes	Humidity: 46%	Anborek Anborek
Power Supply : DC 24	IV Anboren Anbo	Expert conclusion : A	hotek Anbotek Anbote
Test Result : ⊠ Pass	s 🗌 Fail	botek Anbore Al	Anbotek Anbotek Anb
potek Aupotek	Anbotek Anbotek	Anborek Anborek	Anbotek Anbotek
Test Level (A/M)	Testing Duration	Coil Orientation	Result
Anboli 30 Anboli	5 mins	X	⊠A □B □C □D
30	5 mins	botek Ynbotek	☑A □B □C □D
30 Andrew	5 mins	Anborek Z Anborek	ØA □B □C □D
Anbotek Anbote	K Anbotek Anbotek	k anbotek Anbot	Anbotek Anbotek
k hotek And	otek Anbotek Anbo	otek Anbotek Anh	botek Anbotek Anbot
Test Level (A/M)	Testing Duration	Coil Orientation	Result
Inbotek Anbotek	Anborek Anborek	Anbotek Anbotek	Anbotek Anbo.
Anbotek Anbor	Anbotek Anboten	k Anbotek Anbote	k Anborek Anborek
K hotek Anbr	nek Anbotek Anbo	otek Anbotek Anb	hotek Anbotek Anbot
7.0		nbotek Anbotek	
nbotek Anbotek			
otek vupor			



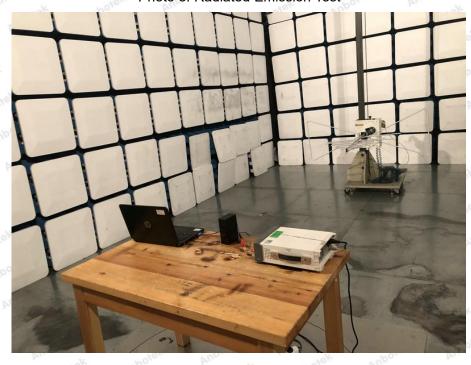
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APPENDIX I -- TEST SETUP PHOTOGRAPH





Photo of Radiated Emission Test





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Photo of Electrostatic Discharge Immunity Test

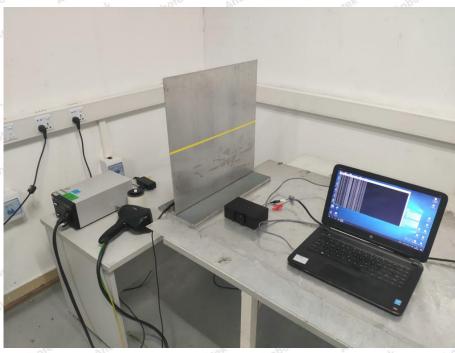


Photo of RF Field Strength susceptibility Test



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Photo of Electrical Fast Transient/Burst Immunity Test



Photo of Surge Immunity Test



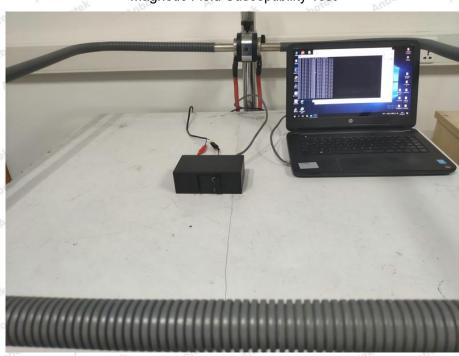


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Photo of Injected currents susceptibility Test



Magnetic Field Susceptibility Test





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APPENDIX II -- EXTERNAL PHOTOGRAPH







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APPENDIX III -- INTERNAL PHOTOGRAPH







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CE Label

- 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.
- 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'.

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