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RED-EMC Test Report

Client Name : JEICO

Address : 94-1, Choryang-ro, Dong-gu, Busan, Korea

Product Name : Industrial wireless remote controller

Date : Mar. 06, 2019

Shenzhen Anbotek Compliance Laboratory Limited

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	TEST REPORT
Applicant	: JEICO Andrea Andrea Andrea Andrea
Manufacturer	: JEICO
Product Name	: Industrial wireless remote controller
Model No.	: JREMO 6K+
Trade Mark	JEICO polek Anbolek Anbolek Anb
Rating(s)	_ TX Power: 3V=== 32mA
Anno (3)	. RX Power: 12-48V or 110-440V ~ 50/60Hz
Test Standard(s)	Draft ETSI EN 301 489-1 V2.2.0 (2017-03)
	EN 55032: 2015

EN 55035: 2017

Final draft ETSI EN 301 489-3 V2.1.1 (2017-03)

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 of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the EN 301 489-1, EN 301 489-3 & EN 55032 and EN 55035 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 Test Feb. 18~Mar. 05, 2018 compliance Anbotek botek Prepared By (Engineer / Oliay Yang) Nen Snavy

(Supervisor / Snowy Meng)

(Manager / Sally Zhang)

Reviewer

Approved & Authorized Signer

Shenzhen Anbotek Compliance Laboratory Limited

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Hotline 400-003-0500 www.anbotek.com



1. General Information

1.1. Client Information

Applicant	:	JEICO Anbolek Anbolek Anbolek Anbolek Anbolek Anbolek
Address	:	94-1, Choryang-ro, Dong-gu, Busan, Korea
Manufacturer	:	JEICO ^{botek} Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
Address	:	94-1, Choryang-ro, Dong-gu, Busan, Korea
Factory	:	JEICO Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
Address	:	94-1, Choryang-ro, Dong-gu, Busan, Korea

1.2. Description of Device (EUT)

Product Name	:	Industrial wireless remot	e controller
Model No.	:	JREMO 6K+	nbotek Anbotek Anbotek Anbotek
Trade Mark	:	JEICO [®]	Anbotek Anbotek Anbotek Anbotek
Test Power Supply	:	TX Power: DC 3V RX Power: AC 110V, 50	Hz / AC 230V, 50Hz
Test Sample No.	:	S1(Normal Sample), S2(An botter Ann
		Operation Frequency:	433.050~434.775MHz
		Number of Channel:	70 Channels
		Software Version:	V13 Anborek Anborek Anborek Anborek
Product		Hardware Version:	V4.3 Anbolek Anbolek Anbolek A
Description	:	Product Serial Number:	1510001
	Modulation Ty		GFSK
		Antenna Type:	TX: Monopole (Film type) Antenna RX: Monopole Antenna
		Antenna Gain(Peak):	TX & RX: 1.5 dBi

specifications or the User's Manual.

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1.3. Auxiliary Equipment Used During Test

N/A

1.4. Description of Test Modes

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

ster supp	A hote And tek about
Pretest Mode	Description
Mode 1	On Mode
poten Anbo	tek Anbot An wotek Anbotek Anbotek
	For Conducted Emission
Final Test Mode	Description
Mode 1	On Mode
Anbors Ann otek	Anboten Anbo ak notek Anbote Ano
	For Radiated Emission
Final Test Mode	Description
Mode 1	On Mode
No. 100"	

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1.5. Test Equipment List

Conducted Emission Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
nb9tek	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	Nov. 26, 2018	1 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Nov. 05, 2018	1 Year
3.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Nov. 05, 2018	1 Year
4.	Software Name EZ-EMC	Ferrari Technology	ANB-03A	N/A	N/A	N/A

Radiated Emission Measurement

	100	N.	010		30.	100
ltem	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Nov. 05, 2018	1 Year
2.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Nov. 19, 2018	1 Year
3.	Pre-amplifier	SONOMA	310N	186860	Nov. 05, 2018	1 Year
Anbott 4.	Software Name EZ-EMC	Ferrari Technology	ANB-03A	N/A	N/A	N/A
5.	Preamplifier	SKET Electronic	BK1G18G3 0D	KD17503	Nov. 05, 2018	1 Year
6.	Spectrum Analysis	Agilent	E4407B	US39390582	Nov. 05, 2018	1 Year
ootek 7.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Nov. 19, 2018	1 Year

Harmonic and Flicker Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Programmable AC Power source	IVYTECH	APS-5005A	632734	Jun. 15, 2018	1 Year
2.10	Harmonic and Flicker Analyzer	EMC-PARTNER	HMONICS 1000-1P	164	Nov. 26, 2018	1 Year
3.0	Harmonics-1000	N/A N/A	Ed.3.0+4.0	N.A MO	N/A	N/A

Electrostatic Discharge Measurement

2	Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
10	^{ote} 1.	ESD Simulators	3Ctest	ESD-30T	ES0131505	Nov. 26, 2018	1 Year

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Electrical Fast Transient/Burst Immunity Measurement

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Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.1	EFT Burst Simulator	PRIMA	EFT61004B	PR10114282	Nov. 05, 2018	1 Year
1.2	EFT-Clamp	PRIMA	EFT-Clamp	Alex	Nov. 05, 2018	1 Year
2.1	EFT Burst Simulator	TESEQ	NSG 3060	1480	Nov. 05, 2018	1 Year
2.2	CDN	TESEQ	CDN 3061	1408	Nov. 05, 2018	1 Year

R/S Immunity Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Signal Generator	Agilent	N5182A	MY48180656	Nov. 05, 2018	1 Year
1boten 2	Amplifier	Amplifier Research	150W1000M3	309410	N/A	N/A
3	Amplifier	Amplifier Research	60S1G3	309433	N/A	N/A
4	Log-Periodic Antenna	Schwarzbeck	VULP9118E	00992	Aug. 17, 2018	3 Year
5 5	Horn Antenna	Instruments corporation	GTH-0118	351600	Nov. 19, 2018	3 Year
6	Power Sensor	Agilent	E9301A	MY41498906	Nov. 05, 2018	1 Year
74	Power Sensor	Agilent	E9301A	MY41498088	Nov. 05, 2018	1 Year
8	Power Meter	Agilent	E4419B	GB40202909	Nov. 05, 2018	1 Year
9	Field Probe	ETS-Lindgren	HI-6006	00212747	Apr. 20, 2017	3 Year
10	software	EMtrace	EM 3	N/A	N/A O	N/A

Surge Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.1	6kV Surge Generator	TESEQ	NSG 3060	1480	Nov. 05, 2018	1 Year
1.2	CDN	TESEQ	CDN 3061	1408	Nov. 05, 2018	1 Year

Injected Currents Susceptibility Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
Anbotek 1. Anbotek	C/S Conducted Immunity Test System	FRANKONIA	CIT-10	126A1196/2012	Nov. 26, 2018	1 Year
2. ^{nb0}	CDN	FRANKONIA	CDN - M2+ M3	A2210178/2012	Nov. 26, 2018	1 Year
3.	6dB Attenuator	FRANKONIA	DAM 26W	1172202	Nov. 05, 2018	1 Year
. · · · 4.	CIT-10	FRANKONIA	Version1.1.7	N/A	N.A VO	N/A

Voltage Dips and Interruptions Measurement

×. 1	Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
potek	1. Ant	CYCLE SAG Simulator	PRIMA	DRP61011AG	PR1204623 4	Nov. 05, 2018	1 Year
Shen	zhen A	nbotek Compliance Labo	ratory Limited	nbor print	Ya.	oter And	

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1.6. 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 registed 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, July 31, 2017.

ISED-Registration No.: 8058A-1

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-1, June 13, 2016.

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.518102

1.7. Performance Criteria

1.7.1. For EMS Test:

 \sqrt{A} : Normal performance within the specification limits;

 $\sqrt{}$ B: Temporary degradation or loss of function or performance which is self-recoverable;

 $\sqrt{}$ C: Temporary degradation or loss of function or performance which requires operator intervention or system reset;

 $\sqrt{}$ 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. Summary of Test Results

Test Items	Standard	Basic Standard	Limit	Results
Conducted Emission	ETSI EN 301 489-1 V2.2.0 Clause 8.3 & 8.4	EN 55032: 2015	Class B	PASS
Radiated Emission	ETSI EN 301 489-1 V2.2.0 Clause 8.2	EN 55032: 2015	Class B	PASS
Harmonic Current Emission	ETSI EN 301 489-1 V2.2.0 Clause 8.5	EN 61000-3-2: 2014	Class A	N/A
Voltage Fluctuations& Flicker	ETSI EN 301 489-1 V2.2.0 Clause 8.6	EN 61000-3-3: 2013	Ynbotek botek	PASS

EMC Immunity

Test Items	Standard	Basic Standard	Performance Criteria	Results
Electrostatic Discharge	ETSI EN 301 489-1 V2.2.0 Clause 9.3	EN 61000-4-2 :2009	Anbotek	PASS
RF Electromagnetic Field	romagnetic ETSI EN 301 489-1 EN 61000-4-3 V2.2.0 Clause 9.2 +A1: 2008+A2		tek A Anbotek	PASS
Fast transients, common mode	ETSI EN 301 489-1 V2.2.0 Clause 9.4	EN 61000-4-4: 2012	nboten B Anbo	PASS
Surges	ETSI EN 301 489-1 V2.2.0 Clause 9.8	EN 61000-4-5: 2014+A1: 2017	AntBek	PASS
Radio frequency, common mode	ETSI EN 301 489-1 V2.2.0 Clause 9.5	EN 61000-4-6: 2014	tek Anbotek	PASS
Volt. Interruptions Volt. Dips	hor All ter app		B / C / C NOTE (3)	PASS
NOTE:	notek Anbotek Anb	d. pr. botek	Anboton An	otek.
(1) " N/A" denote	s test is not applicable in this	Test Report	Anboten	And
no pui	for equipment intended to be cationcentre, the class A limit	M NOLO	n industrial envir	onment or a
(3) Voltage dip: 1	00% reduction – Performanc	ce Criteria B	to. Ann	K abot
Voltage dip: 1	00% reduction – Performanc	e Criteria B	ipoten Anbo	not pr
	OO(and wather Destances	Oritoria O	W No	OLO AN

Voltage dip: 70% reduction – Performance Criteria C

Voltage Interruption: 0% Interruption – Performance Criteria C

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3. Emission Test

3.1. Conducted Emission Test at Main Ports

3.1.1. Test Standard and Limit

Basic Standard EN 55032: 2015	Test Standard	Draft ETSI EN 301 4	89-1 V2.2.0	Clause 8.3 &	8.4	Anbotek	Anbou
	Basic Standard	EN 55032: 2015	P. abotek	Anbote	Ann	Anbotek	Anbor

	Freework	Maximum RF Line Voltage (dBuV)					
	Frequency	Quasi-peak Level	Average Level				
Test Limit	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *				
	500kHz~5MHz	56	46				
	5MHz~30MHz	Anthone 60 ^{Mm} delt	50				

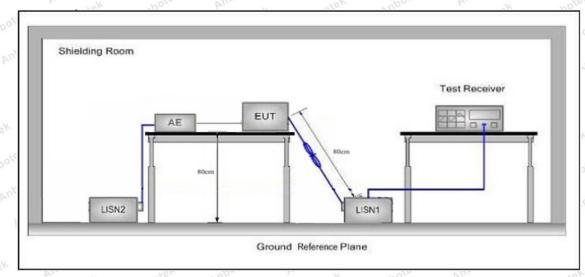
Remark: *Decreasing linearly with logarithm of the frequency.

Limits for conducted emissions of equipment

intended to be used in telecommunication centres and industrial environment

	Frequency	Maximum RF L	ine Voltage (dBuV)
Toot Limit	Frequency	Quasi-peak Level	Average Level
Test Limit	150kHz~500kHz	79 79	Nuboten 66 not tek
	500kHz~30MHz	Anno 73	Anbole 60 Anbugatek

3.1.2. Test Setup



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3.1.3. 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 ETSI EN 301 489-1 V2.2.0 & EN 55032: 2015 on Conducted Emission Measurement.

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

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

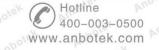
For the actual test configuration, please refer to the related Item EUT Test Photos.

3.1.4. Test Data

PASS

The EUT should be compliance to the limit of Class B Only the worst case data was showed in the report, please to see the following pages

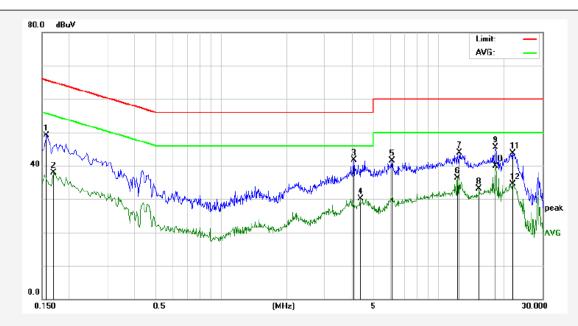
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Report No.: SZAWW190218010-01E

Conducted Emission Test Data

Test Site:	1# Shielded Room		
Operating Condition:	Mode 1		
Tast Constitution	TX: DC 3V		
Test Specification:	RX: AC 230V, 50Hz		
Comment:	Live Line		
	Tem.: 23.8℃ Hum.: 48%		



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.1580	29.21	19.90	49.11	65.56	-16.45	QP	
2	0.1700	18.09	19.90	37.99	54.96	-16.97	AVG	
3	4.0739	21.56	20.18	41.74	56.00	-14.26	QP	
4	4.3780	9.86	20.19	30.05	46.00	-15.95	AVG	
5	6.0900	21.25	20.24	41.49	60.00	-18.51	QP	
6	12.1980	15.96	20.30	36.26	50.00	-13.74	AVG	
7	12.5020	23.62	20.30	43.92	60.00	-16.08	QP	
8	15.3740	12.88	20.27	33.15	50.00	-16.85	AVG	
9	18.2460	25.22	20.31	45.53	60.00	-14.47	QP	
10	18.2460	19.60	20.31	39.91	50.00	-10.09	AVG	
11	21.8700	23.46	20.32	43.78	60.00	-16.22	QP	
12	21.8700	14.27	20.32	34.59	50.00	-15.41	AVG	

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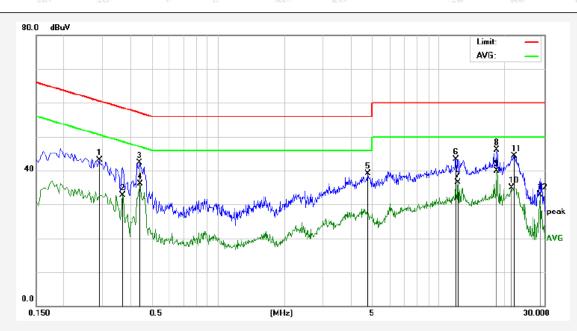


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Report No.: SZAWW190218010-01E

Conducted Emission Test Data

1# Shielded Room		
Mode 1		
TX: DC 3V		
RX: AC 230V, 50Hz		
Neutral Line		
Tem.: 23.8°C Hum.: 48%		



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.2900	23.26	19.89	43.15	60.52	-17.37	QP	
2	0.3700	12.76	19.92	32.68	48.50	-15.82	AVG	
3	0.4420	22.34	19.95	42.29	57.02	-14.73	QP	
4	0.4460	16.11	19.96	36.07	46.95	-10.88	AVG	
5	4.7780	18.90	20.20	39.10	56.00	-16.90	QP	
6	11.9500	23.09	20.31	43.40	60.00	-16.60	QP	
7	12.1980	16.17	20.30	36.47	50.00	-13.53	AVG	
8	18.2460	25.78	20.31	46.09	60.00	-13.91	QP	
9	18.2460	19.52	20.31	39.83	50.00	-10.17	AVG	
10	21.3020	14.63	20.32	34.95	50.00	-15.05	AVG	
11	21.9300	23.90	20.32	44.22	60.00	-15.78	QP	
12	28.6860	12.62	20.27	32.89	50.00	-17.11	AVG	

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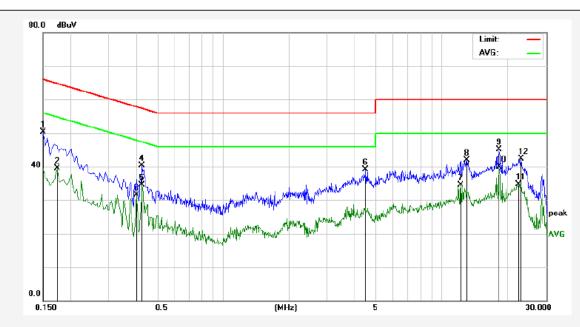


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Report No.: SZAWW190218010-01E

Conducted Emission Test Data

Test Site:	1# Shielded Room
Operating Condition:	Mode 1
Test Cresting	TX: DC 3V
Test Specification:	RX: AC 110V, 50Hz
Comment:	Live Line
	Tem.: 23.8°C Hum.: 48%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.1500	30.45	19.90	50.35	65.99	-15.64	QP	
2	0.1740	19.63	19.90	39.53	54.76	-15.23	AVG	
3	0.4020	11.65	19.94	31.59	47.81	-16.22	AVG	
4	0.4260	20.30	19.95	40.25	57.33	-17.08	QP	
5	0.4260	14.50	19.95	34.45	47.33	-12.88	AVG	
6	4.4940	19.00	20.19	39.19	56.00	-16.81	QP	
7	12.1980	14.30	20.30	34.60	50.00	-15.40	AVG	
8	13.0100	21.66	20.29	41.95	60.00	-18.05	QP	
9	18.2420	24.88	20.31	45.19	60.00	-14.81	QP	
10	18.2420	19.68	20.31	39.99	50.00	-10.01	AVG	
11	22.4300	14.39	20.31	34.70	50.00	-15.30	AVG	
12	23.1299	21.95	20.30	42.25	60.00	-17.75	QP	

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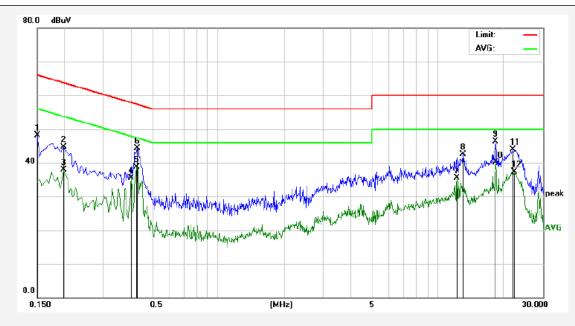
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(

Report No.: SZAWW190218010-01E

Conducted Emission Test Data

Test Site:	1# Shielded Room				
Operating Condition:	Mode 1				
Test Crestification	TX: DC 3V				
Test Specification:	RX: AC 110V, 50Hz				
Comment:	Neutral Line				
	Tem.: 23.8℃ Hum.: 48%				



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.1500	28.23	19.90	48.13	65.99	-17.86	QP	
2	0.1980	24.79	19.90	44.69	63.69	-19.00	QP	
3	0.1980	18.08	19.90	37.98	53.69	-15.71	AVG	
4	0.4020	15.58	19.94	35.52	47.81	-12.29	AVG	
5	0.4260	18.78	19.95	38.73	47.33	-8.60	AVG	
6	0.4300	24.39	19.95	44.34	57.25	-12.91	QP	
7	12.1980	15.26	20.30	35.56	50.00	-14.44	AVG	
8	13.0100	22.14	20.29	42.43	60.00	-17.57	QP	
9	18.2420	25.90	20.31	46.21	60.00	-13.79	QP	
10	18.2420	19.75	20.31	40.06	50.00	-9.94	AVG	
11	21.9740	23.49	20.32	43.81	60.00	-16.19	QP	
12	22.2660	17.05	20.31	37.36	50.00	-12.64	AVG	

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3.2. Radiated Emission Test

3.2.1. Test Standard and Limit

Test Standard	Draft ETSI EN 301	489-1 V2.	.2.0 Clause 8.	2 hotek	Anbotek	Anbo, tek
Basic Standard	EN 55032: 2015	Anbotek	Anboto	Annobotek	Anbotek	Anbor

Radia	ated Emission Test Limit (Below 1	000MHz)							
F	Limit (dBµV/m)								
Frequency (MHz)	Quasi-peak Level								
	Class B	Class A							
30MHz~230MHz	And tek 40 mootek An	50							
230MHz~1000MHz	And 47 Jose A	57							

Radiated Emission Test Limit (Above 1000MHz)

_	Limit (dBµV/m)							
Frequency (MHz)	Class	В	Class A					
	Peak	Average	Peak	Average				
1000 MHz -3000 MHz	70 potek	50	76	56				
3000 MHz -6000 MHz	74	54	80	60 x 100				

Remark: 1. The lower limit applies at the transition frequency. 2. The test distance is 3m.

Radiated Emission Test Limit for FM Receivers

-	Limit (dBµV/m)								
Frequency (MHz)	Quasi-p	beak Level							
(101612)	Fundamental	Harmonics							
30MHz~230MHz	hotek Ant 60 Ant Jak	52							
230MHz~300MHz	60	52 model 52							
300MHz~1000MHz	60	56							

1. The lower limit shall apply at the transition frequency. 2. The test distance is

Frequency Range of Radiated Measurement

	10.000
Highest frequency generated or Upper frequency of	
measurement used in the device or on which the device	Range (MHz)
operates or tunes (MHz)	
Below 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5th harmonic of the highest frequency or 6 GHz, whichever is lower

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3.2.2. Test Setup

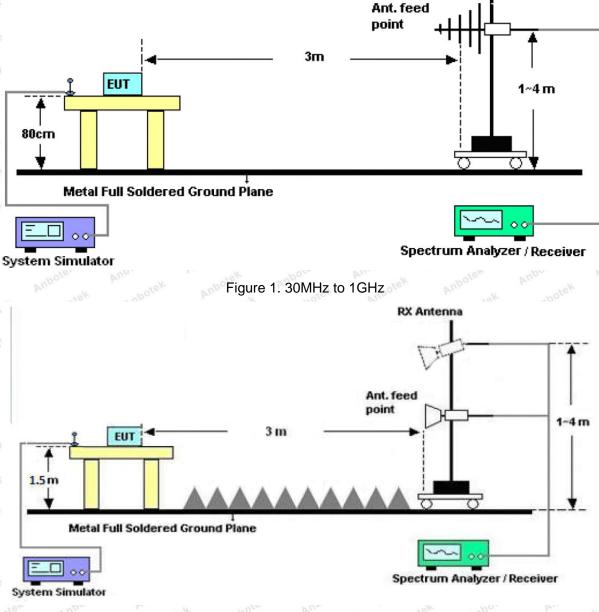


Figure 2. Above 1 GHz

3.2.3. Test Procedure

1) The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.

2) The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter test site. The table was rotated 360 degrees to determine the position of the highest radiation.

3) The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

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4) The initial step in collecting radiated emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.

5) The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1GHz.

The test receiver/spectrum was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.

6) For the actual test configuration, please refer to the related Item -EUT Test Photos.

Note:

The resolution bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.

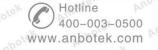
The resolution bandwidth is 1MHz and video bandwidth of test receiver/spectrum analyzer is 3MHz for Peak/ Average detection at frequency above 1GHz.

3.2.4. Test Data

PASS

The EUT should be compliance to the limit of Class B Only the worst case data was showed in the report, please to see the following pages

Shenzhen Anbotek Compliance Laboratory Limited



Anbotek Product Safety Report No.: SZAWW190218010-01E

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Test Results (30~1000MHz)

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Test Mode:

Job No.:

EN301489_Class B_3m

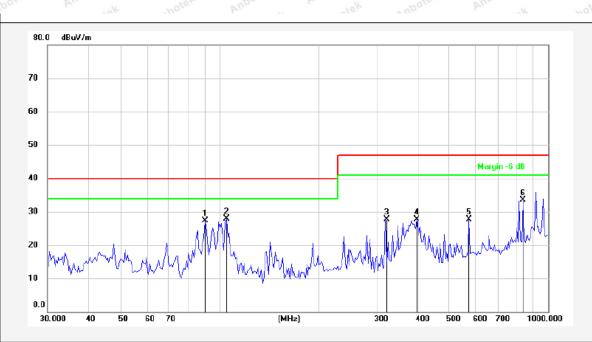
Mode 1

n Power Source:

Polarization:

Temp.(°C)/Hum.(%RH):

17.7°C/51%RH TX: DC 3V RX: AC 230V, 50Hz Horizontal



	No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
3	1	90.5374	49.80	-22.56	27.24	40.00	-12.76	peak			
	2	105.0873	48.75	-20.93	27.82	40.00	-12.18	peak			
	3	319.9370	44.21	-16.48	27.73	47.00	-19.27	peak			
	4	398.3312	42.39	-14.73	27.66	47.00	-19.34	peak			
	5	575.6342	40.55	-12.91	27.64	47.00	-19.36	peak			
	6	839.1818	41.63	-8.14	33.49	47.00	-13.51	peak			

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Test Results (30~1000MHz)

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Test Mode:

Job No.:

EN301489_Class B_3m

Mode 1

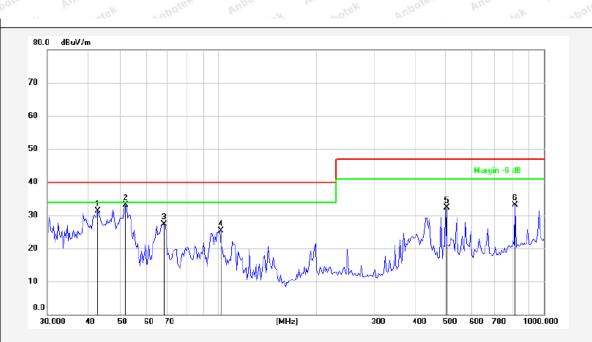
SZAWW190218010-01E

Power Source:

Polarization:

Temp.(°C)/Hum.(%RH):

17.7℃/51%RH TX: DC 3V RX: AC 230V, 50Hz Vertical



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	42.9750	45.84	-14.55	31.29	40.00	-8.71	peak			
2	51.6616	48.00	-14.90	33.10	40.00	-6.90	peak			
3	68.3908	45.69	-18.41	27.28	40.00	-12.72	peak			
4	101.4663	39.86	-14.62	25.24	40.00	-14.76	peak			
5	500.3011	45.44	-13.04	32.40	47.00	-14.60	peak			
6	817.3997	40.57	-7.40	33.17	47.00	-13.83	peak			
	101	AV-	1777 -	N/	01	1577-			101	No. Pr.

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Test Results (30~1000MHz)

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Test Mode:

Job No.:

EN301489_Class B_3m

Mode 1

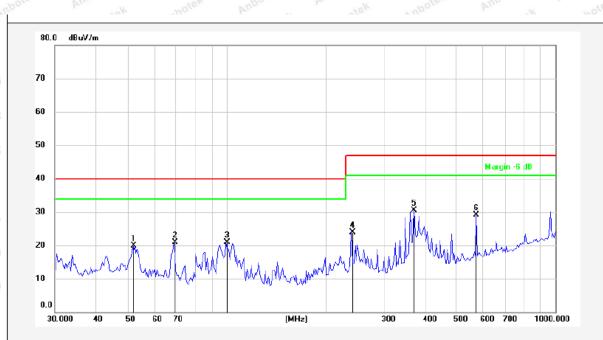
SZAWW190218010-01E

m Power Source:

Polarization:

Temp.(°C)/Hum.(%RH):

17.7°C/51%RH TX: DC 3V RX: AC 110V, 50Hz Horizontal



ι											
	No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	1	51.6616	35.84	-15.90	19.94	40.00	-20.06	peak			
	2	68.9930	40.48	-19.65	20.83	40.00	-19.17	peak			
	3	99.7028	41.50	-20.53	20.97	40.00	-19.03	peak			
	4	239.5670	42.70	-18.81	23.89	47.00	-23.11	peak			
	5	371.3528	45.57	-15.06	30.51	47.00	-16.49	peak			
	6	575.6342	42.11	-12.91	29.20	47.00	-17.80	peak			
		•									

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Test Results (30~1000MHz)

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Standard:

Test Mode:

Job No.:

EN301489_Class B_3m

Mode 1

SZAWW190218010-01E

Power Source:

Polarization:

Temp.(°C)/Hum.(%RH):

17.7°C/51%RH TX: DC 3V RX: AC 110V, 50Hz Vertical

80.0 dBuV/m 70 60 50 Margin -6 dB 40 30 MAMM 20 10 0.0 30.000 60 (MHz) 300 400 600 700 1000.000 40 50 70 500

	No.	Freq. (MHz)	(dBuV)	Factor (dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector	Height (cm)	degree (deg)	Remark
ŝ	1	47.7422	47.66	-14.73	32.93	40.00	-7.07	peak			
	2	52.5753	47.66	-14.92	32.74	40.00	-7.26	QP	100	0	
0	3	68.9930	48.79	-18.65	30.14	40.00	-9.86	peak			
	4	91.3346	48.20	-16.25	31.95	40.00	-8.05	peak			
	5	371.3528	39.45	-14.06	25.39	47.00	-21.61	peak			
	6	575.6342	41.11	-11.40	29.71	47.00	-17.29	peak			

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Report No.: SZAWW190218010-01E

Test Results (1GHz~6GHz)

Test Results (10	GHZ~0GHZ)						
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.	Detector
1545.05	47.40	-3.05	44.35	70.00	-25.65	Hanbo	PEAK
2028.60	46.59	-2.89	43.70	70.00	-26.30	H Pr	PEAK
2031.73	47.97	-4.51	43.47	70.00	-26.53	o ^{tek} H	PEAK
3908.56	46.17	-4.53	41.65	74.00	-32.35	Hobole	PEAK
4555.07	49.47	-4.52	44.94	74.00	-29.06	Hotek	PEAK
4888.24	52.96	-5.59	47.38	74.00	-26.62	H	PEAK
1545.05	42.15	-3.05	39.10	50.00	-10.90	Н	AVG
2028.60	42.34	-2.89	39.45	50.00	-10.55	H	AVG
2031.73	40.96	-4.51	36.45	50.00	-13.55	H	AVG
3908.56	44.51	-4.53	39.98	54.00	-14.02	H day	AVG
4555.07	39.46	-4.52	34.94	54.00	-19.06	H	AVG
4888.24	39.52	-5.59	33.93	54.00	-20.07	Hupor	AVG
1361.10	52.53	-2.87	49.66	70.00	-20.34	V MO	PEAK
1976.17	54.79	-2.89	51.90	70.00	-18.10	o ^{tek} V	PEAK
2021.51	48.75	-3.68	45.07	70.00	-24.93	Voor	PEAK
3860.59	53.80	-5.18	48.62	74.00	-25.38	Vtek	PEAK
4542.07	51.38	-5.06	46.32	74.00	-27.68	Vabote	PEAK
4967.46	54.45	-5.85	48.59	74.00	-25.41	V	PEAK
1361.10	40.62	-2.87	37.76	50.00	-12.24	V Mark	AVG
1976.17	44.84	-2.89	41.95	50.00	-8.05	V	AVG
2021.51	38.63	-3.68	34.95	50.00	-15.05	V	AVG
3860.59	41.86	-5.18	36.67	54.00	-17.33	N ^{nbo} v	AVG
4542.07	44.95	-5.06	39.89	54.00	-14.11	V	AVG
4967.46	43.09	-5.85	37.24	54.00	-16.76	VAND	AVG

Remark:

1. Level =Receiver Read level + Antenna Factor

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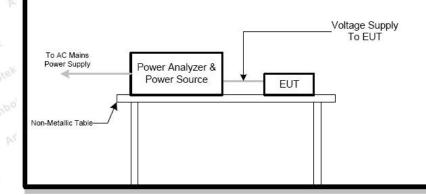
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3.3. Harmonic Current Emissions

3.3.1. Test Standard and Limit

Test Standard	Draft ETSI EN 301 489-1 V2	.2.0 Clause 8	.5 otek	Anbotek	Anboto An
Basic Standard	EN 61000-3-2: 2014	Anboto	Ann botek	Anbotek	Anbo
Test Limit	Please to refer to the clause	7 of standard	EN 61000-3	3-2: 2014.	Anbo lek

3.3.2. Test Setup



3.3.3. Test Procedure

1) The EUT was placed on the top of a wooden table 0.8 meters above the ground and operated to produce the maximum harmonic components under normal operating conditions.

2) The classification of EUT is according to section 5 of EN 61000-3-2: 2014. The EUT is classified as follows:

Class A: Balanced three-phase equipment, Household appliances excluding equipment as Class D, Tools excluding portable tools, Dimmers for incandescent lamps, audio equipment, equipment not specified in one of the three other classes.

Class B: Portable tools; Arc welding equipment which is not professional equipment.

Class C: Lighting equipment.

Class D: Equipment having a specified power less than or equal to 600W of the following types: Personal computers and personal computer monitors and television.

3) The correspondent test program of test instrument to measure the current harmonics emanated from EUT is chosen. The measure time shall be not less than the time necessary for the EUT to be exercised.
4) For the actual test configuration, please refer to the related item –EUT Test Photos.

3.3.4. Test Data

The active input power of the EUT is less than 75W. Therefore, according to EN 61000-3-2, no limits are necessary.

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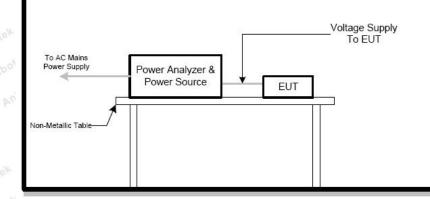
3.4. Voltage Fluctuations and Flicker

3.4.1. Test Standard and Limit

Test Standard	Draft ETSI EN 301 489-1 V2.2.0 Clause 8.6	Anbotek	Anbor Ar
Basic Standard	EN 61000-3-3: 2013	Anbotek	Anbo

Voltage Fluctuati	on and Flicker Test Limit
Test Items	Limits
Pst oter Anbore	potek Anbolek 1:00 tek potek An
hoter And sotek Plt Anbotek Anbote tak	0.65
Anbore And hotekdc Anborek Anbor	3.3%
dmax	4.0%
Anbor And dt.ek Anboren Anb	Not exceed 3.3% for 500ms
Let but principal and the second seco	NY NOT AT

3.4.2. Test Setup



3.4.3. Test Procedure

1) Tests was performed according to the Test Conditions/Assessment of Voltage Fluctuations specified in Clause 5.0/6.0 of IEC555-3 and/or Clause 6.0/4.0 of IEC/EN 61000-3-3 depend on which standard adopted for compliance measurement.

2) All types of harmonic current and/or voltage fluctuation in this report are assessed by direct measurement using flicker-meter.

3) For the actual test configuration, please refer to the related Item -EUT Test Photos.

3.4.4. Test Data

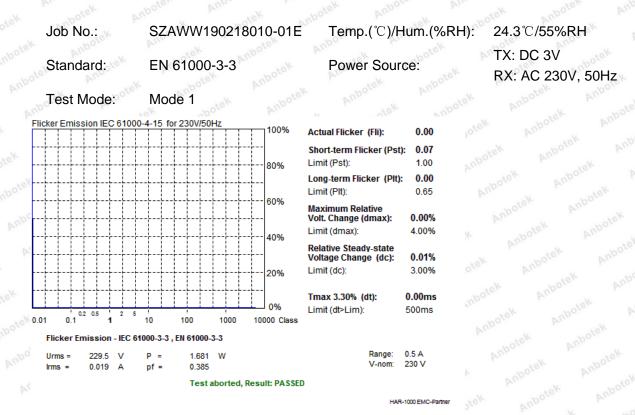
Please to see the following pages

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

Urms =	229.5V	Free	1 =	50.000	Rar	nge:	0.5 A
Irms =	0.019A	lpk	= 1	0.103A	cf	.botel	5.397
P Anb=	1.681W	Stek	=	4.371VA	pf	=	0.385

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

LIN (Line Impedance Network) : L: 0.240hm +j0.150hm N: 0.160hm +j0.100hm

Limits :	Plt	Aup	0.65	Pst :	1.00	
			dmax :	4.00 %	dc ;o	3.00 %
			dtLim:	3.30 %	dt>Lim:	500ms

Test aborted, Result: PASSED

1

dn	nax	dc	dt>Lim
[%	An	[%]	[ms]
0.0	000	0.010	0.000

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4. Immunity Test

General Performance Criteria

◆ Performance criteria for continuous phenomena applied to transmitters and receivers (CT/CR) During and after the test, the apparatus shall continue to operate as intended. No degradation of performance or loss of function is allowed below a permissible performance level specified by the manufacturer when the apparatus is used as intended. In some cases this permissible performance level may be replaced by a permissible loss of performance.

During the test the EUT shall not unintentionally transmit or change its actual operating state and stored data.

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

◆ Performance criteria for transient phenomena applied to transmitters and receivers (TT/TR) After the test, the apparatus shall continue to operate as intended. No degradation of performance or loss of function is allowed below a permissible performance level specified by the manufacturer, when the apparatus is used as intended. In some cases this permissible performance level may be replaced by a permissible loss of performance.

During the EMC exposure to an electromagnetic phenomenon, a degradation of performance is, however, allowed. No change of the actual mode of operation (e.g. unintended transmission) or stored data is allowed.

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

◆ Performance criteria for equipment which does not provide a continuous communication link For radio equipment which does not provide a continuous communication link, the performance criteria described in CT/CR and TT/TR are not appropriate, then the manufacturer shall declare, for inclusion in the test report, his own specification for an acceptable level of performance or degradation of performance during and/or after the immunity tests.

The performance criteria specified by the manufacturer shall give the same degree of immunity protection as called for in CT/CR and TT/TR.

◆ Performance criteria for ancillary equipment tested on a stand alone basis

If ancillary equipment is intended to be tested on a stand alone basis, the performance criteria described in CT/CR and TT/TR are not appropriate, then the manufacturer shall declare, for inclusion in the test report, his own specification for an acceptable level of performance or degradation of performance during and/or after the immunity tests.

The performance criteria specified by the manufacturer shall give the same degree of immunity protection as called for in CT/CR and TT/TR.

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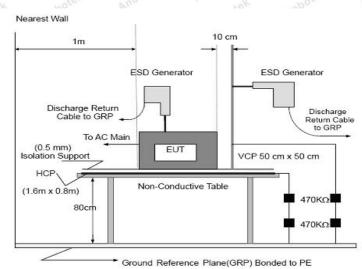


4.1. Electrostatic Discharge Test

4.1.1. Test Standard and Specification

Basic StandardEN 61000-4-2: 2009Discharge Impedance330 ohm / 150 pFPerformance CriterionCT/CRDischarge VoltageAir Discharge: 2kV/4kV/8kV Contact Discharge: 2kV/4kV (Direct/Indirect)PolarityPositive & NegativeNumber of DischargeAir Discharge: min. 20 times at each test point Contact Discharge: min. 200 times in totalDischarge ModeSingle DischargeDischarge Period1 second minimum	Test Standard	Draft ETSI EN 301 489-1 V2.2.0 Clause 9.3/ EN 55035 Clause 4.2.1
Performance Criterion CT/CR Discharge Voltage Air Discharge: 2kV/4kV/8kV Contact Discharge: 2kV/4kV (Direct/Indirect) Polarity Positive & Negative Number of Discharge Air Discharge: min. 20 times at each test point Contact Discharge Single Discharge	Basic Standard	EN 61000-4-2: 2009
Discharge Voltage Air Discharge: 2kV/4kV/8kV Contact Discharge: 2kV/4kV (Direct/Indirect) Polarity Positive & Negative Number of Discharge Air Discharge: min. 20 times at each test point Contact Discharge Single Discharge	Discharge Impedance	330 ohm / 150 pF
Discharge Voltage Contact Discharge: 2kV/4kV (Direct/Indirect) Polarity Positive & Negative Number of Discharge Air Discharge: min. 20 times at each test point Contact Discharge Contact Discharge: min. 200 times in total Discharge Mode Single Discharge	Performance Criterion	CT/CR
Number of Discharge Air Discharge: min. 20 times at each test point Contact Discharge: min. 200 times in total Discharge Mode Single Discharge	Discharge Voltage	No. Pr. Her Mo.
Number of Discharge Contact Discharge: min. 200 times in total Discharge Mode Single Discharge	Polarity	Positive & Negative
A Aston A store Aston Aston A store A	Number of Discharge	An ten abo
Discharge Period 1 second minimum	Discharge Mode	Single Discharge
	Discharge Period	1 second minimum

4.1.2. Test Setup



Note:

TABLE-TOP EQUIPMENT:

The configuration consisted of a wooden table 0.8 meters high standing on the Ground Reference Plane. The GRP consisted of a sheet of aluminum at least 0.25mm thick, and 2.5 meters square connected to the protective grounding system. A Horizontal Coupling Plane (1.6m x 0.8m) was placed on the table and attached to the GRP by means of a cable with 940kohm total impedance. The equipment under test, was installed in a representative system as described in section 7 of IEC /EN 61000-4-2, and its cables were placed on the HCP and isolated by an insulating support of 0.5mm thickness. A distance of1-meter minimum was provided between the EUT and the walls of the laboratory and any other metallic structure.

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FLOOR-STANDING EQUIPMENT:

The equipment under test was installed in a representative system as described in section 7 of IEC/EN 61000-4-2, and its cables were isolated from the Ground Reference Plane by an insulating support of 0.1-meter thickness. The GRP consisted of a sheet of aluminum that is at least 0.25mm thick, and 2.5meters square connected to the protective grounding system and extended at least 0.5 meters from the EUT on all sides.

4.1.3. Test Procedure

The test generator necessary to perform direct and indirect application of discharges to the EUT in the following manner:

1) Contact discharge was applied to conductive surfaces and coupling planes of the EUT.

During the test, it was performed with single discharges. For the single discharge time between

successive single discharges was at least 1 second.

Vertical Coupling Plane (VCP):

The coupling plane, of dimensions 0.5m x 0.5m, is placed parallel to, and positioned at a distance

0.1m from, the EUT, with the Discharge Electrode touching the coupling plane.

The four faces of the EUT will be performed with electrostatic discharge.

Horizontal Coupling Plane (HCP):

The coupling plane is placed under to the EUT. The generator shall be positioned vertically at a

distance of 0.1m from the EUT, with the Discharge Electrode touching the coupling plane.

The four faces of the EUT will be performed with electrostatic discharge.

2) Air discharges at insulation surfaces of the EUT.

It was at least ten single discharges with positive and negative at the same selected point.

- 3) When applying direct discharges to a portable or handheld battery-powered EUT with a display screen, it may not be possible to observe the screen for a given EUT orientation. If observation of the screen is necessary during this test, the EUT may be mounted vertically using non-metallic supports.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

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4.1.4. Test Data

Job No.:	SZAWW190218010-01	IE Temp.(℃)/Hum.(%RH	l): 24.3℃/55%RH
Standard:	EN 61000-4-2	Power Source:	TX: DC 3V RX: AC 230V, 50Hz
Test Mode:	Mode 1		KA. AC 2309, 50HZ

Item	Ŭ	conducted surfaces and ng planes	Air Discharge at insulating			
¢	Direct Contact Discharge	Indirect Contact Discharge	surfaces			
Test Voltage	Reaction of EUT / Result	Reaction of EUT / Result	Reaction of EUT / Result			
+2kV	n.r.r. PASS	n.r.r. PASS	n.r.r. PASS			
-2kV	n.r.r. PASS	n.r.r. PASS	n.r.r. PASS			
+4kV	n.r.r. PASS	n.r.r. PASS	n.r.r. PASS			
-4kV	n.r.r. PASS	n.r.r. PASS	n.r.r. PASS			
+6kV	otek Anbotek Anboto	And Anbotek Anbotek	n.r.r. PASS			
-6kV	hotek Anbotek Anbor	tek obotek Anboten	n.r.r. PASS			
+8kV	and Anbotek Anbotek Ant	otek nbotek Anbot	n.r.r. PASS			
-8kV	An- abotek Anbotek	Anborotek Anbotek Ant	n.r.r. PASS			

Remarks: n.r.r. = no reaction recognized Performace Criteria B observed and No any function degraded during the tests.

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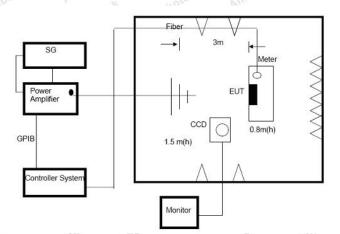


4.2. Radiated, RF Electromagnetic Fields Test

4.2.1. Test Standard and Specification

Basic Standard EN 61000-4-3: 2006+A1: 2008+A2: 2010 Required Performance A Frequency Range 80MHz to 6GHz Field Strength 3 V/m Modulation 1kHz Sine Wave, 80%, AM Modulation Frequency Step 1 % of preceding frequency value Delarity of Antanna Harizantal and Vartical	Test Standard	andard Draft ETSI EN 301 489-1 V2.2.0 Clause 9.2/ EN 55035 Clause 5
Frequency Range80MHz to 6GHzField Strength3 V/mModulation1kHz Sine Wave, 80%, AM ModulationFrequency Step1 % of preceding frequency value	Basic Standard	tandard EN 61000-4-3: 2006+A1: 2008+A2: 2010
Field Strength 3 V/m Modulation 1kHz Sine Wave, 80%, AM Modulation Frequency Step 1 % of preceding frequency value	Required Performance	d Performance A
Modulation 1kHz Sine Wave, 80%, AM Modulation Frequency Step 1 % of preceding frequency value	Frequency Range	ncy Range 80MHz to 6GHz
Frequency Step 1 % of preceding frequency value	Field Strength	rength 3 V/m
and the state state state and state stat	Modulation	ion 1kHz Sine Wave, 80%, AM Modulation
Delarity of Antanna Harizontal and Vartical	Frequency Step	ncy Step 1 % of preceding frequency value
Polarity of Antenna Honzontal and Vertical	Polarity of Antenna	of Antenna Horizontal and Vertical
Test Distance 3 m	Test Distance	stance 3 m stance https://www.stance.com/stance
Antenna Height 1.5 m	Antenna Height	a Height 1.5 m
Dwell Time at least 0.5 seconds	^c Dwell Time	me at least 0.5 seconds

4.2.2. Test Setup



4.2.3. 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) The field strength level was 3V/m

2) The frequency range is swept from 80 MHz to 6000 MHz 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.

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4.2.4. Test Data

Job No.: SZAWW190218010-01E Temp.(°C)/Hum.(%RH): 21.7°C/52.3%RH

Standard: EN 61000-4-3 Power Source: TX: DC 3V RX: AC 230V, 50Hz

Test Mode: Mode 1

Frequency Range (MHz)	Antenna Polarity	R.F. Field Strength	Azimuth	Result
Anbotek Anbotek	Anboro A	Anbotek Anbotek	Front	tek Anbotek
80~6000	potek AND AND AND AND AND AND AND AND AND AND	3 V/m (rms) AM Modulated	Rear	
tek Anbotek	Anbotek Anbo	1000Hz, 80%	Left	
born Ann botek	Anboten Ar	bu otek nbotek	Right	ek Anbotek

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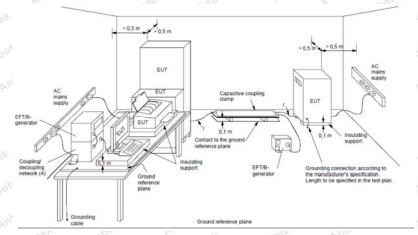
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4.3. Fast Transients, Common Mode Test

4.3.1. Test Standard and Specification

por por	noter And rek noter Attr
Test Standard	Draft ETSI EN 301 489-1 V2.2.0 Clause 9.4/ EN 55035 Clause 4.2.4
Basic Standard	EN 61000-4-4: 2012
Required Performance	B And sotek Anbotek Anbotek Anbotek Anbotek Anbotek
Test Voltage	Power Line: 1 kV Signal/Control Line: 0.5 KV
Polarity	Positive & Negative
Impulse Frequency	5 kHz
Impulse Wave shape	Tr/Th 5/50 ns
Burst Duration	15 ms for 5KHz Repetition Frequency 0.75 ms for 100KHz Repetition Frequency
Burst Period	300 ms
Test Duration	1 min Anbolek Anbolek Anbolek Anbolek Anbolek Anbolek

4.3.2. Test Setup



Note: (A) location for supply line coupling

(B) location for signal lines coupling

For the actual test configuration, please refer to the related item - Photographs of the Test Setup

4.3.3. Test Procedure

The EUT and support equipment, are placed on a table that is 0.8 meter above a metal ground plane measured 1m*1m min. and 0.65mm thick min.

The other condition as following manner:

1) The distance between any coupling devices and the EUT should be (0.5-0/+0.1)m for table-top equipment testing, and $(1.0\pm0.1)m$ for floor standing equipment.

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2) Both positive and negative polarity discharges were applied.

- 3) The duration time of each test sequential was 1 minute
- 4) For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.3.4. Test Data

Note:

Job No.:	SZAWW190218010-01E	Temp.(℃)/Hum.(%RH)	24.3℃/55%RH	
Standard:	EN 61000-4-4	Power Source:	TX: DC 3V RX: AC 230V, 50Hz	
Test Mode:	Mode 1		Anbote, Anbo	

					Test level (kV)								
v.	Coupling	Line	0	.5	1	1	2	2	4	1	Observation	Criterion	Results
			+	-	+	-	+	-	+	-	•		
0	otek An	nbotek	Ρ	Pute Pute	Р	P	botek	P.,	Anbot	e¥.	Anboten Ant	abotek A	PASS
2	AC Line	Nanbot	^{e^wP}	P ^{nb}	P	Р	Anbot	8K	Ant	oten	TT,TR	AnboB	PASS
	Anbotek	L+N	^{ooten}	P	P	_{le} P	An	potek		Aupor	otek Antobotek	Anbotek	PASS

1)There was not any unintentional transmission in standby mode

2) In the table: 'P' represents 'PASS'; 'F' represents 'FAIL'.

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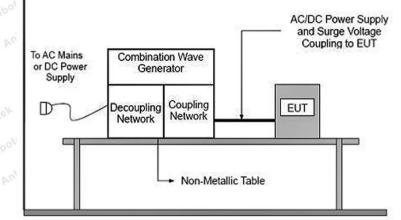


4.4. Surges Test

4.4.1. Test Standard and Specification

Test Standard	Draft ETSI EN 301 489-1 V2.2.0 Clause 9.8/EN 55035 Clause 4.2.5
Basic Standard	EN 61000-4-5: 2014
Required Performance	B Ando sotek Anbotek Anbotek Anbotek Anbotek Anbotek
Wave-Shape	Combination Wave 1.2/50 us Open Circuit Voltage 8 /20 us Short Circuit Current
Test Voltage	Line to Line: 1 kV; Line to ground: 2kV
Generator Source	2 ohm between networks
Impedance	12 ohm between network and ground
Polarity	Positive/Negative
Phase Angle	0°/90°/180°/270°
Pulse Repetition Rate	1 time / min. (maximum)
Number of Tests	5 positive and 5 negative at selected points

4.4.2. Test Setup



4.4.3. Test Procedure

1) For EUT power supply:

The surge is to be applied to the EUT power supply terminals via the capacitive coupling network. Decoupling networks are required in order to avoid possible adverse effects on equipment not under test that may be powered by the same lines, and to provide sufficient decoupling impedance to the surge wave. The power cord between the EUT and the coupling/decoupling networks shall be 2meters in length (or shorter).

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For double-insulated products without PE or external earth connections, the test shall be done in a similar way as for grounded products but without adding any additional external grounded connections. If there are no other possible connections to earth, line-to-ground tests may be omitted.

2) For Unshielded unsymmetrical interconnection lines:

The surge is applied to the lines via the capacitive coupling. The coupling /decoupling networks shall not influence the specified functional conditions of the EUT. The interconnection line between the EUT and the coupling/decoupling networks shall be 2 meters in length.

3) Unshielded symmetrical interconnections communication lines:

The surge is applied to the lines via gas arrestors coupling. Test levels below the ignition point of the coupling arrestor cannot be specified. The interconnection line between the EUT and the coupling/decoupling networks shall be 2 meters in length.

- 4) For Shielded lines:
 - Direct application,

The EUT is isolated from ground and the surge is applied to its metallic enclosure; the termination (or auxiliary equipment) at the port(s) under test is grounded. This test applies to equipment with single or multiple shielded cables.

Rules for application of the surge to shielded lines:

- i) Shields grounded at both ends
- > The surge injection on the shield.
- ii) Shields grounded at one end

> If in the installation the shield is connected only at the auxiliary equipment, test shall be done in that configuration but with the generator still connected to the EUT side. If cable lengths allow, the cables shall be on insulated supports 0.1 m above the ground plane or cable tray.

For products which do not have metallic enclosures, the surge is applied directly to the shielded cable. - Alternative coupling method for testing single cables in a multi-shield configuration, Surges are applied in close proximity to the interconnection cable under test by a wire. The length of the cable between the port(s) under test and the device attached to the other end of the cable shall be the lesser of the maximum length permitted by the EUT's specification, or 20 m. Where the length exceeds 1 m, excess lengths of cables shall be bundled at the approximate centre of the cables with the bundles 30 cm to 40 cm in length.

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4.4.4. Test Data

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Job No.:	SZAWW190218010-01E	Temp.(℃)/Hum.(%RH):	24.3℃/55%RH
Standard:	EN 61000-4-5	Power Source:	TX: DC 3V
			RX: AC 230V, 50Hz

Test Mode: Mode 1

		- Va		. O. "	120				22			1		1.12
e	2			Test level										
0	Co	upling	Line	0.5	kV	1	kV	2	kV	4	kV	Observation	Criterion	Result
				+	-	+	-	+	-	+	-			
2		N.	0°	P	nou	_e ⊮ P	Pho	lek	Anb	pte.	An	botek Ant	otek Ar	bo. dek
	AC	L-N	90°°	N.	Ann	BA	Р	tootek	P	nborn	10	TT,TR	Bay	PASS
2V	line	abotek	180°	ote.	An	Pte	P	Anbote	N-	Aupo	- Kark	Andl, IX	Anboten	1 400
	Nex.	abo ^{tt}	270°	upote.		P	P	ont	otek	P.C	001	k notek	Anbotek	Anbo

Note:1)There was not any unintentional transmission in standby mode2) In the table: 'P' represents 'PASS'; 'F' represents 'FAIL'.

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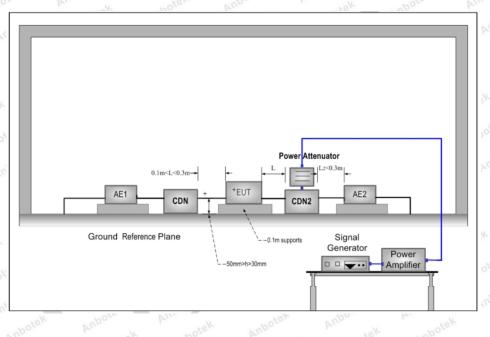
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4.5. Radio Frequency, Common Mode Test

4.5.1. Test Standard and Specification

Test Standard	Draft ETSI EN 301 489-1 V2.2.0 Clause 9.5/EN 55035:2017 Clause 5
Basic Standard	EN 61000-4-6: 2014
Required Performance	A And hotek Andorek Andorek Andorek Andorek Andorek Andorek
Frequency Range	0.15 MHz~80 MHz/0.15MHz~10MHz, 10MHz~30MHz, 30MHz~80MHz
Field Strength	3 Vr.m.s./3V~1Vr.m.s./3Vr.m.s.
Modulation	1kHz Sine Wave, 80%, AM Modulation
Frequency Step	1 % of fundamental
Dwell Time	at least 3 seconds

4.5.2. Test Setup



4.5.3. Test Procedure

1) The EUT was placed on an insulating support of 0.1m height above a ground reference Plane, arranged and connected to satisfy its functional requirement. All cables exiting the EUT was supported at a height of at least 30 mm above the ground reference plane.

2) The coupling and decoupling devices were required, they were located between 0.1 m and 0.3 m from the EUT. This distance was to be measured horizontally from the projection of the EUT on to the ground reference plane to the coupling and decoupling device.

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3) Each AE, used with clamp injection, shall be placed on an insulating support 0.1 m above the ground reference plane. A decoupling network shall be installed on each cable between the EUT and AE except the cable under test. All cables connected to each AE, other than those being connected to the EUT, shall be provided with decoupling networks. The decoupling networks connected to each AE (except those on cables between the EUT and AE) shall be applied no further than 0.3 m from the AE. The cable(s) between the AE and the decoupling network (s) or in between the AE and the injection clamp shall not be bundled nor wrapped and shall be kept between 30 mm and 50 mm above the ground reference plane.

4) The frequency range was swept from 150 kHz to 230 MHz, using the signal levels established during the setting process, and with the disturbance signal 80% amplitude modulated with a 1 kHz sine wave, pausing to adjust the RF signal level or to change coupling devices as necessary. Where the frequency was swept incrementally, the step size do not exceed 1% of the preceding frequency

4.5.4. Test Data

Job No.:	SZAWW1902180	10-01E	Temp.(℃)/Hum.(%R	H):	24.3℃/55%RI	Anboten
Standard:	EN 61000-4-6		Power Source:		TX: DC 3V	
	tek aboten				RX: AC 230V,	50Hz

Test Mode: Mode 1

	10.			
Test Frequency (MHz)	Tested Line	Injection Method.	Performance Criterion	Test Result
0.15~80	AC line	CDN-M2	CT/CR	PASS
0.15~10	AC line	CDN-M2	CT/CR	PASS
10~30	AC line	CDN-M2	CT/CR	PASS
30~80	AC line	CDN-M2	CT/CR	PASS
	(MHz) 0.15~80 0.15~10 10~30	(MHz)Tested Line0.15~80AC line0.15~10AC line10~30AC line	(MHz)Tested LineMethod.0.15~80AC lineCDN-M20.15~10AC lineCDN-M210~30AC lineCDN-M2	(MHz)Tested LineMethod.Criterion0.15~80AC lineCDN-M2CT/CR0.15~10AC lineCDN-M2CT/CR10~30AC lineCDN-M2CT/CR

Remark: For normal operating function: There was no change compared with the initial operation during and after the test.

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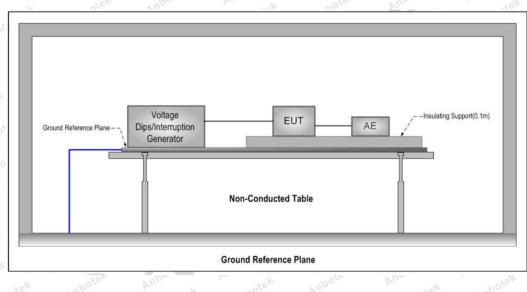


4.6. Voltage Dips and Interruptions

4.6.1. Test Standard and Specification

	note hour tek noor Au to ter
Test Standard	Draft ETSI EN 301 489-1 V2.2.0 Clause 9.7/EN 55035:2017 Clause 4.2.6
Basic Standard	EN 61000-4-11: 2004
Voltage Dips:	0% reduction, 0.5 Cycle 0% reduction, 1.0 Cycle 70% reduction, 25 Cycles
Voltage Interruptions:	0% reduction, 250 Cycles
Interval between Event:	Minimum 10 seconds
Phase Angle:	0°/180°
Test Cycle:	3 times det prove

4.6.2. Test Setup



4.6.3. Test Procedure

1) The EUT was placed on a ground reference plane(GRP)insulated by an insulating support 0,1 m thick and the GRP was placed on a 0.8m high wooden table for table-top equipment. For floor standing equipment, the EUT was placed on a 0.1m high wooden support above the GRP.

2. The test was performed with the EUT connected to the test generator with the shortest power supply cable as specified by the EUT manufacturer.

The EUT was tested for each selected combination of test level and duration with a sequence of three dips/interruptions with intervals of 10 s minimum. Each representative mode of operation was tested.
 For EUT with more than one power cord, each power cord was tested individually.

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Mode 1

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4.6.4. Test Data

Test Mode:

Job No.: SZAWW1902180		-01E Temp.(℃)/Hum.(%RH):	: 24.3℃/55%RH	
Other de reduction	EN 61000-4-11	Dowor Sources	TX: DC 3V	
Standard:	EN 61000-4-11	Power Source:	RX: AC 230V, 50Hz	

Event **Total events** Performance Ut:230Vac 50Hz **Durations** interval Result (time) Criterion (sec) Voltage residual (%) (period) PASS 10 3.00 TT/TR (ms) 0 20 PASS 1,00 10 3 TT/TR 3 TT/TR PASS 0 0.5 10 10 70 25 500 10 3 TT/TR PASS 0 250 5000 10 3 TT/TR PASS 70 10 0.5 10 3.00 TT or CR PASS

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APPENDIX I -- TEST SETUP PHOTOGRAPH

Photo of Conducted Emission Test



Photo of Radiation Emission Test



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Photo of Flicker Test

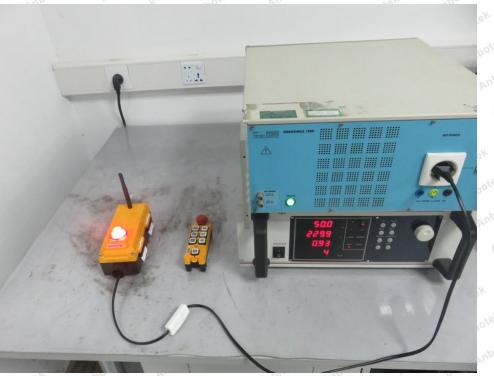
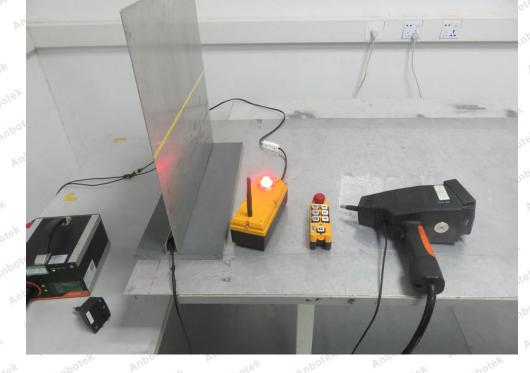


Photo of Electrostatic Discharge Test



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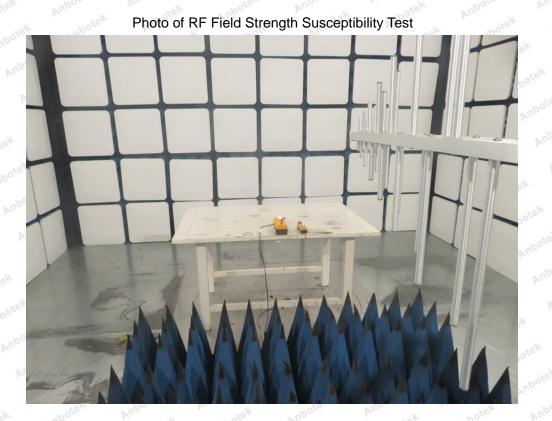
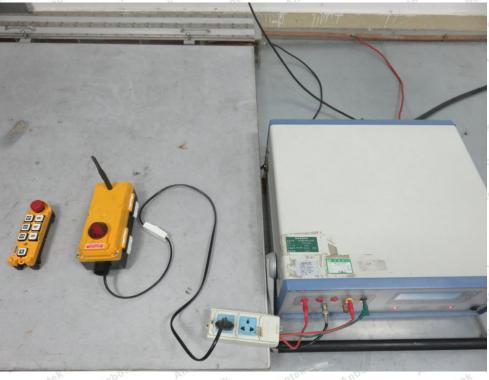


Photo of Electrical Fast Transient /Burst Immunity Test



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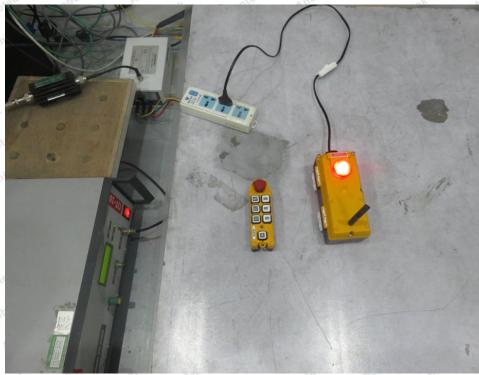


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Photo of Surge Test



Photo of C/S Test



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APPENDIX II -- EXTERNAL PHOTOGRAPH





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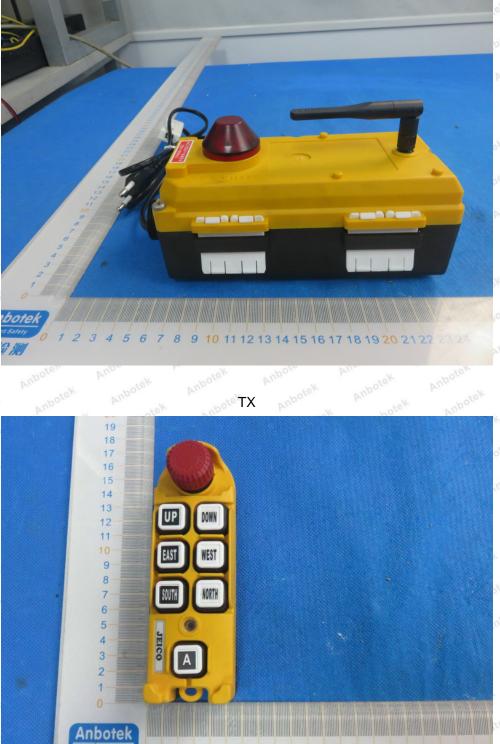


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Product Safety 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 2 文博 检 测 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 2 3

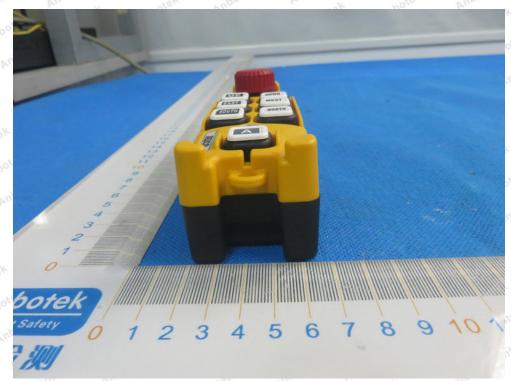
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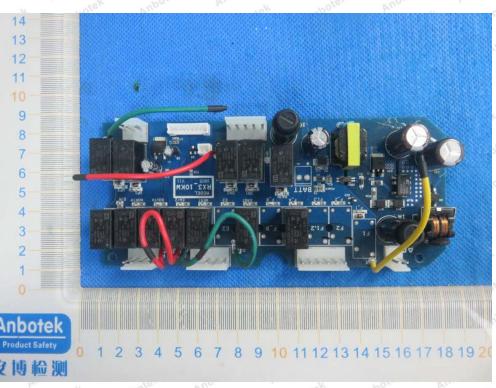
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APPENDIX III -- INTERNAL PHOTOGRAPH



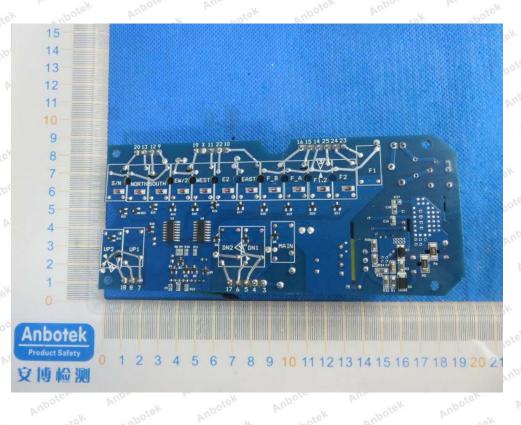


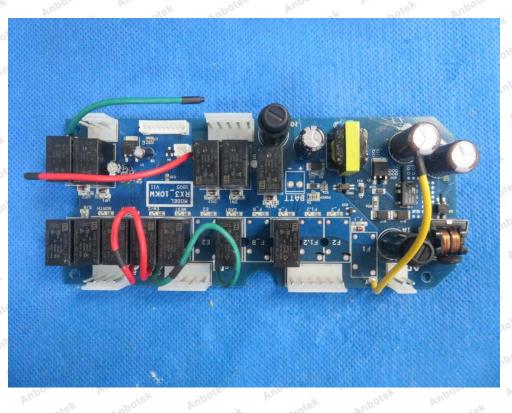
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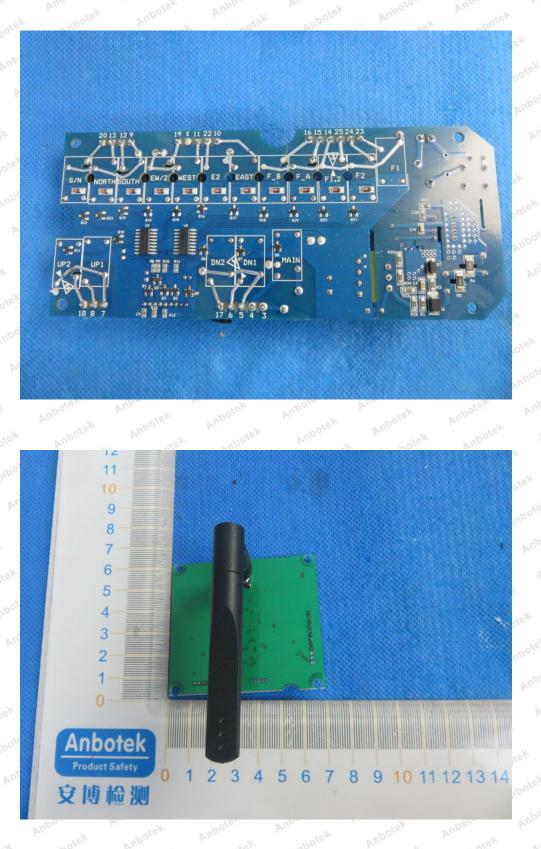


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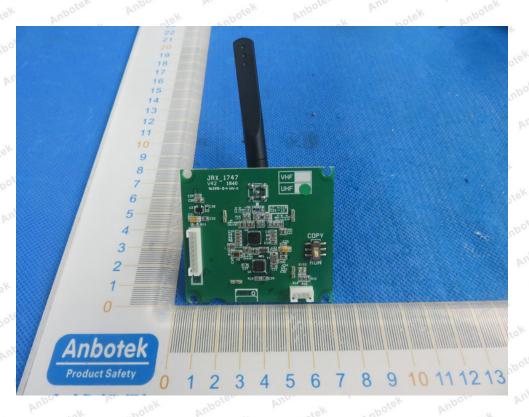
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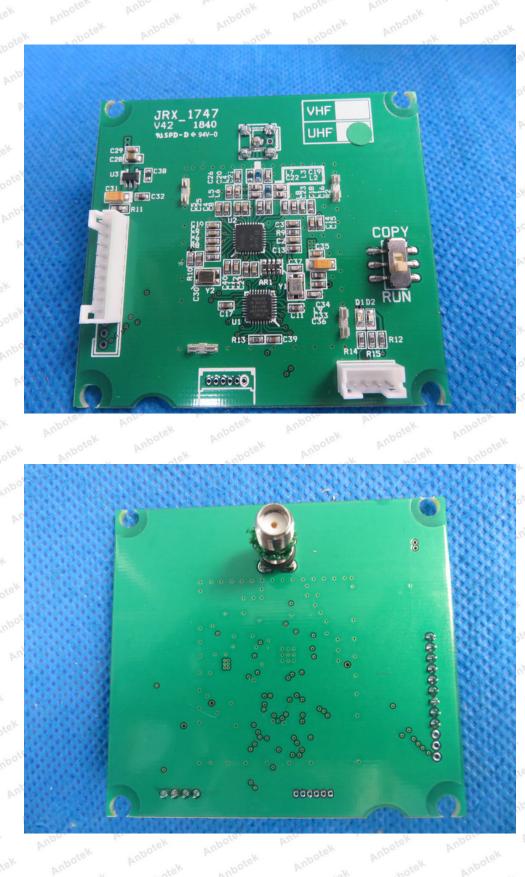


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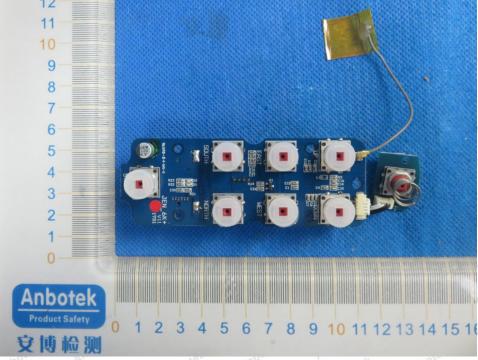
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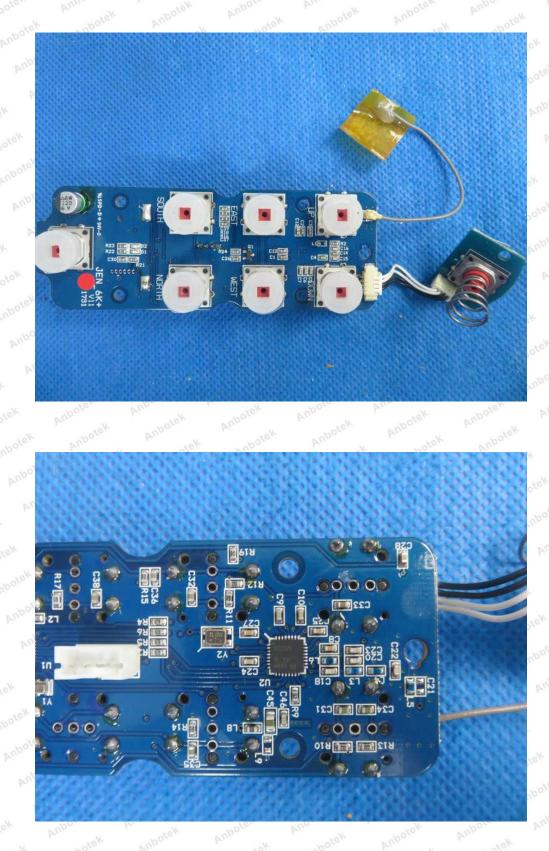


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