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FCC Test Report

Applicant : Alliance Sports Group., LP

Address 700 Henrietta Creek Rd. Roanoke, TX 76262,

Roanoke, Texas 76262 United States

Product Name : POWER STATION

Report Date : Sept. 26, 2023

Shenzhen Anbotek Contribution



Laboratory Limited







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TEST REPORT

Applicant : Alliance Sports Group., LP

Manufacturer : Huizhou Intelligent Energy Co., Ltd.

Product Name : POWER STATION

Test Model No. : NP2400PS

Reference Model No. : N/A

Trade Mark : NEBO

Rating(s) : Please see page 6.

Test Standard(s) : FCC Part15 Subpart C, Paragraph 15.209

Test Method(s) : ANSI C63.10: 2020

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 FCC Part 15 Subpart C 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. 14, 2023
Date of Test	Aug. 14 ~ 30, 2023
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Revision History

Report Version	Description	Issued Date
R00 R00	Original Issue.	Sept. 26, 2023
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1. General Information

1.1. Client Information

Applicant	: Alliance Sports Group., LP
Address	700 Henrietta Creek Rd. Roanoke, TX 76262, Roanoke, Texas 76262 United States
Manufacturer	: Huizhou Intelligent Energy Co., Ltd.
Address	8-9/F, Bldg.E2, Qunyi Industrial Park, Sanhe Avenue, Tonghu Town, Zhongkai High-tech Zone, HuiZhou, China
Factory	: Huizhou Intelligent Energy Co., Ltd.
Address	8-9/F, Bldg.E2, Qunyi Industrial Park, Sanhe Avenue, Tonghu Town, Zhongkai High-tech Zone, HuiZhou, China

1.2. Description of Device (EUT)

- 2/4		Marie
Product Name	:	POWER STATION
Test Model No.	:	NP2400PS
Reference Model No.	:	N/A Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
Trade Mark	:	NEBO Anborek Anborek Anborek Anborek
Test Power Supply	:	AC 120V, 60Hz
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A Anborek Anborek Anborek Anborek Anborek Anborek Anborek
RF Specification		
Operation Frequency	:	110.1-205kHz
Modulation Type	:	ASK Anborek Anborek Anborek Anborek
Antenna Type	:	Inductive loop coil Antenna
Antenna Gain(Peak)	:	0 dBi (Provided by customer)
Domorky 1) For a mor	a) 2	otalied features description, places refer to the manufacturer's ensaifications

Remark: 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.







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Rating(s):

PINNACLE™ 2400 POWER STATION

- Model: NP2400PS SKU: NEB-PST-0006

- Battery Energy: 1843.2Wh 51.2V
 Solar Input: 12-75VDC 25A 800W max
 AC Input: 100-130VAC/10A 60Hz, 1200W max

- Total AC and DC Input: 1200W max
 AC Socket(x4) Output: 1200W c 60Hz 2400W, Total: 2400W max
 USB-C(x2) Output: (5V/9V/12V/15V/20V) —3A, 20V—5A 100W each port, Total: 200W
 USB-A(x2) Output: 5V—3A/9V—2A/12V—1.5A 18W
- ach port, Total: 36W
 DC 5521(x2)+DC Power Socket 12V-10A, Total: 120W max
 LED lighting output: 5W max
 Wireless Output: 10W Total DC Output: 366W
 Total AC and DC Output: 2640W max

- Charge Temperature: 32-104°F(0-40°C)
 Discharge Temperature: 14-104°F(-10-40°C)
 Working Humidity: 10%-85%
 Date Code:











△ CAUTION!

- Risk of electric shock. Do not remove cover.
 No user serviceable parts inside. Refer servicing to qualified service personnel.
 Risk of Injury to persons. Do not use this product if the power cord or the battery cables are damaged in any way.
 This device is not intended for use in a commercial repair facility.

WARNING!

- Do not overcharge the internal battery. See Instruction Manual.
 Do not smoke, strike a match, or cause a spark in the vicinity of the power pack.
 Only charge the internal battery in a well ventilated area.
 Risk of Electric shock and risk of fire.

DANGER! This device is intended to be used indoors only. Do not use outdoors.

△ MISE EN GARDE!

- △ MISE EN GARDE!
 Risque de décharge électrique. Ne pas enlever le couvercle.
 Aucune des pièces à l'inténeur ne peut être réparée par l'utilisateur. L'entretien courant doit être effectué par un personnel d'entretien qualifié.
 Risque de blessure aux personnes. Ne pas utiliser ce produit si le cordon d'alimentation ou les câbles de batterie sontendommagés de quelque façon.
 Le dispositif n'est pas destiné à être utilisé dans un atelier de réparation commercial.

AVERTISSEMENT!

- Ne pas surcharger la batterie interne. Consulter le manuel d'utilisation.

 Il ne faut pas fumer, allumer une allumette ou produire des étincelles à proximité du bloc d'alimentation.

 Charger la batterie uniquement dans un endroit bien aéré.

 Risques de déchargeélectrique et d'incendie.

Le dispositif est destiné à être utilisé à l'intérieur seulement. Ne pas l'utiliser à l'extérieur.

H2400IM V1.0.03 / 3.06.04.0557







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1.3. Auxiliary Equipment Used During Test

Description	Rating(s)
Wireless charging	Manufacturer: Shenzhen Ouju Technology Co., Ltd.
load	M/N: CD2577
Anbo sek nb	Power: 5W/7.5W/10W/15W

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.

Pretest Mode	Description
Mode 1	Charging & Wireless Charging Mode

	01- 01-	For Conducted Emission
	Final Test Mode	Description
ek	Mode 1	Charging & Wireless Charging Mode

0	For Radiated Emission					
B	Final Test Mode	Description				
	Mode 1	Charging & Wireless Charging Mode				

Note:

- (1) Test channel is 0.1483MHz.
- (2) All the situation(full load, half load and empty load) has been tested, only the worst situation (full load 10W) was recorded in the report.



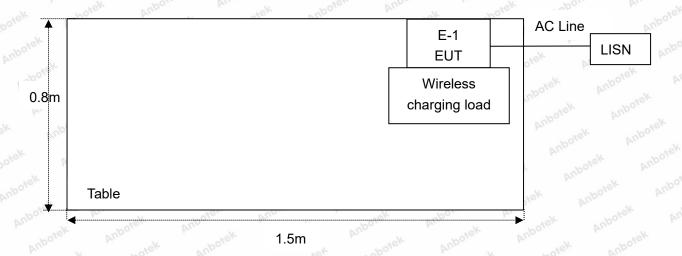




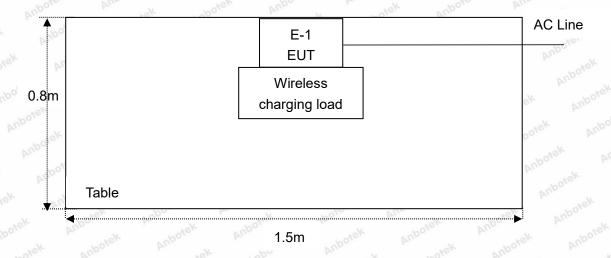
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1.5. Description Of Test Setup

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1.6. Test Equipment List

	atek .					
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
Anboi 1.	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	Oct. 23, 2022	1 Year
tež.	Three Phase V-type Artificial Power Network	CYBERTEK	EM5040DT	E215040DT001	Jul. 05, 2023	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Oct. 13, 2022	1 Year
4.	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	Oct. 23, 2022	1 Year
5.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Oct. 13, 2022	1 Year
6.	EMI Preamplifier	SKET Electronic	LNPA-0118G-45	SKET-PA-002	Oct. 13, 2022	1 Year
botek 7.	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	Oct. 16, 2022	3 Year
8	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	Oct. 23, 2022	3 Year
9.	Loop Antenna	Schwarzbeck	FMZB1519B	00053	Oct. 23, 2022	1 Year
10.	Horn Antenna	A-INFO	LB-180400-KF	J211060628	Oct. 23, 2022	1 Year
ે11.	Pre-amplifier	SONOMA	310N	186860	Oct. 23, 2022	1 Year
12.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
13.	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY53280032	Oct. 13, 2022	1 Year
14.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Oct. 13, 2022	1 Year
15.	Signal Generator	Agilent	E4421B	MY41000743	Oct. 13, 2022	1 Year
16.	DC Power Supply	IVYTECH	IV3605	1804D360510	Oct. 22, 2022	1 Year
17.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80B	N/A	Oct. 19, 2022	1 Year
18.	Power Meter	Agilent	N1914A	MY50001102	Oct.26, 2022	1 Year
	60°		D. WAY	- V	60'	1.7





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1.7. Measurement Uncertainty

Uncertainty
3.8dB
3.53dB
Horizontal: 3.92dB; Vertical: 4.52dB
ainty expressed at approximately the 95% confidence

1.8. Description of Test Facility

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

FCC-Registration No.: 184111

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

ISED-Registration No.: 8058A

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

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518102







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2. Summary of Test Results

	Standard Section	ection Test Item	
Anbote	15.203	Antenna Requirement	PASS
Anb	15.207	Conducted Emission Test	PASS
ole, b	15.205/15.209	Spurious Emission	PASS





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3. Conducted Emission Test

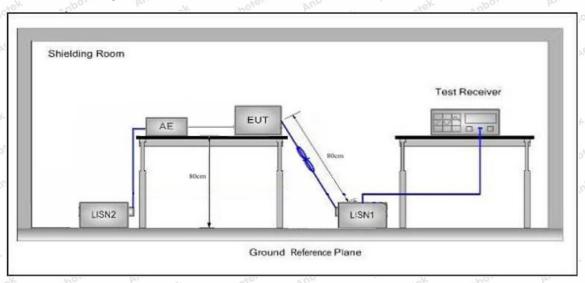
3.1. Test Standard and Limit

FCC Part15 Section 15.2	07	nbotek Anbe						
Fraguenov	Maximum RF Line Voltage (dBuV)							
Frequency	Quasi-peak Level	Average Level						
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *						
500kHz~5MHz	56	46						
5MHz~30MHz	60	50						
	Frequency 150kHz~500kHz 500kHz~5MHz	Quasi-peak Level 150kHz~500kHz 66 ~ 56 * 500kHz~5MHz 56						

Remark: (1) *Decreasing linearly with logarithm of the frequency.

(2) The lower limit shall apply at the transition frequency.

3.2. Test Setup



3.3. 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 FCC ANSI C63.10: 2020 on Conducted Emission Measurement.

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

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

3.4. Test Data

AC conducted emission pre-test at both at AC 120V/60Hz and AC 240V/60Hz modes, recorded worst case AC 120V/60Hz.

Please to see the following pages.







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Conducted Emission Test Data

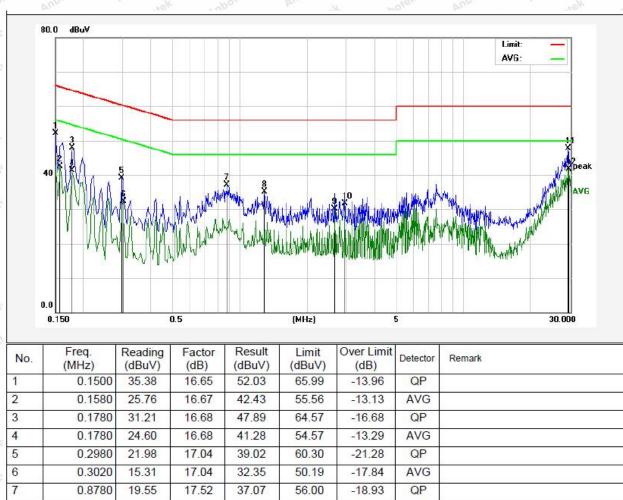
1# Shielded Room Test Site:

Mode 1 **Operating Condition:**

Test Specification: AC 120V, 60Hz

Comment: Live Line

Temp.(°C)/Hum.(%RH): 20.4°C/57%RH



NO.	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	Detector	Remark
1	0.1500	35.38	16.65	52.03	65.99	-13.96	QP	0
2	0.1580	25.76	16.67	42.43	55.56	-13.13	AVG	0
3	0.1780	31.21	16.68	47.89	64.57	-16.68	QP	0
4	0.1780	24.60	16.68	41.28	54.57	-13.29	AVG	0
5	0.2980	21.98	17.04	39.02	60.30	-21.28	QP	0
6	0.3020	15.31	17.04	32.35	50.19	-17.84	AVG	0
7	0.8780	19.55	17.52	37.07	56.00	-18.93	QP	0
8	1.2940	17.52	17.57	35.09	56.00	-20.91	QP	0
9	2.6580	12.55	17.60	30.15	46.00	-15.85	AVG	0
10	2.9539	14.16	17.63	31.79	46.00	-14.21	AVG	0
11	29.3420	29.64	18.14	47.78	60.00	-12.22	QP	0
12	29.6380	23.54	18.17	41.71	50.00	-8.29	AVG	









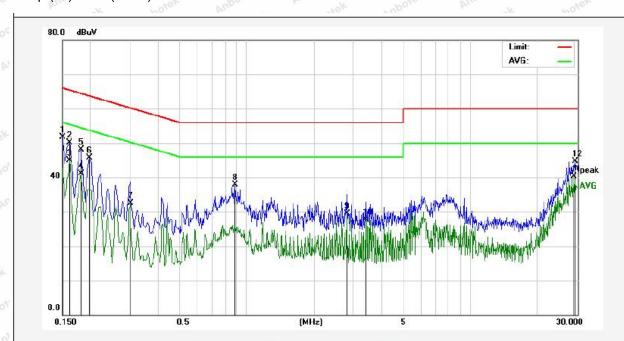
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Conducted Emission Test Data

Test Site: 1# Shielded Room

Operating Condition: Mode 1

Test Specification: AC 120V, 60Hz Comment: Neutral Line Temp.($^{\circ}$)/Hum.($^{\circ}$ RH): 20.4 $^{\circ}$ C/57 $^{\circ}$ RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1499	34.98	16.65	51.63	66.00	-14.37	QP	
2	0.1620	33.50	16.67	50.17	65.36	-15.19	QP	
3	0.1620	28.14	16.67	44.81	55.36	-10.55	AVG	
4	0.1819	24.49	16.69	41.18	54.39	-13.21	AVG	
5	0.1819	31.38	16.69	48.07	64.39	-16.32	QP	
6	0.1980	29.02	16.70	45.72	63.69	-17.97	QP	
7	0.3020	15.47	17.04	32.51	50.19	-17.68	AVG	
8	0.8860	20.32	17.53	37.85	56.00	-18.15	QP	
9	2.8020	11.93	17.61	29.54	46.00	-16.46	AVG	
10	3.3860	10.08	17.58	27.66	46.00	-18.34	AVG	
11	29.0140	22.09	18.13	40.22	50.00	-9.78	AVG	
12	29.3100	26.58	18.14	44.72	60.00	-15.28	QP	
						1.0		





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4. Radiation Spurious Emission

4.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 1	5.209 and 15.205			
	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz~0.490MHz	2400/F(kHz)	Aupo.	Ar. aborek	300
	0.490MHz-1.705MHz	24000/F(kHz)	Anbo. stek	a nbotek	30
Test Limit	1.705MHz-30MHz	30	tek Vupo	ek -nbotel	30
	30MHz~88MHz	100	40.0	Quasi-peak	stek 3 Anbore
	88MHz~216MHz	150	43.5	Quasi-peak	nbotek 3 Anbr
	216MHz~960MHz	200	46.0	Quasi-peak	Anborek 3
	960MHz~1000MHz	500	54.0	Quasi-peak	Anb 3
	Above 1000MU-	500	54.0	Average	A3 010 1
	Above 1000MHz	And horek An	74.0	Peak	Jek 3 _{Anbore}

Remark:

- (1)The lower limit shall apply at the transition frequency.
- (2) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

4.2. Test Setup

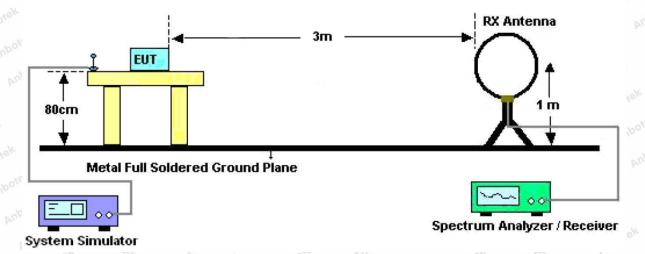


Figure 1. Below 30MHz







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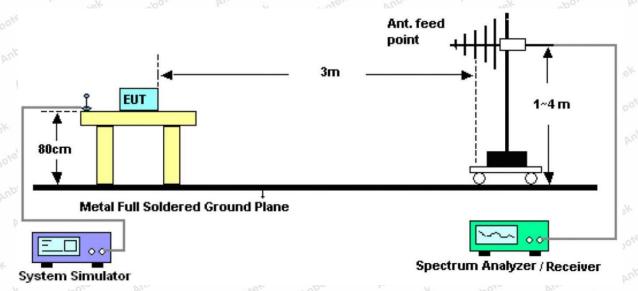


Figure 2. 30MHz to 1GHz

4.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane.

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. Rotated the EUT through three orthogonal axes to determine the maximum emissions, both horizontal and vertical polarization of the antenna are set on test. The EUT is tested in 9*6*6 Chamber. The device is evaluated in xyz orientation.

For 9kHz to 150kHz, Set the spectrum analyzer as:

RBW = 200Hz, VBW =1kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as:

RBW = 9kHz, VBW =30kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 30MHz to 1000MHz, Set the spectrum analyzer as:

RBW = 100kHz, VBW =300kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

4.4. Test Data

PASS

During the test, Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the X-axis is the worst case.







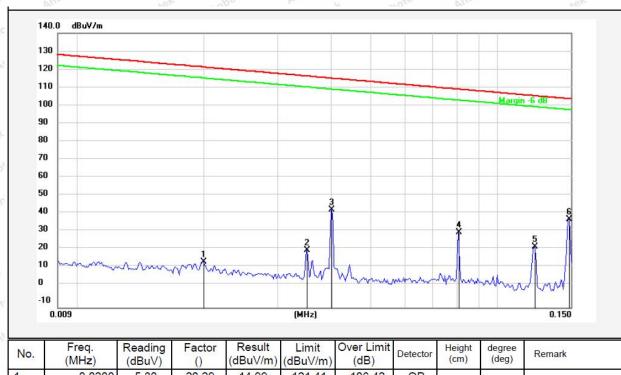
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Test Results (Between 9kHz - 150kHz)

Test Mode: Mode 1

Distance: 3m

Power Source: AC 120V, 60Hz Temp.($^{\circ}$ C)/Hum.($^{\circ}$ RH): 24.5 $^{\circ}$ C/53 $^{\circ}$ RH



No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	0.0200	-5.30	20.29	14.99	121.41	-106.42	QP			
2	0.0353	0.81	20.47	21.28	116.51	-95.23	QP			
3	0.0404	22.91	20.43	43.34	115.34	-72.00	QP			0 0
4	0.0808	10.71	20.36	31.07	109.36	-78.29	QP			
5	0.1225	2.70	20.34	23.04	105.77	-82.73	QP			
6	0.1483	17.95	20.33	38.28	104.12	-65.84	QP			





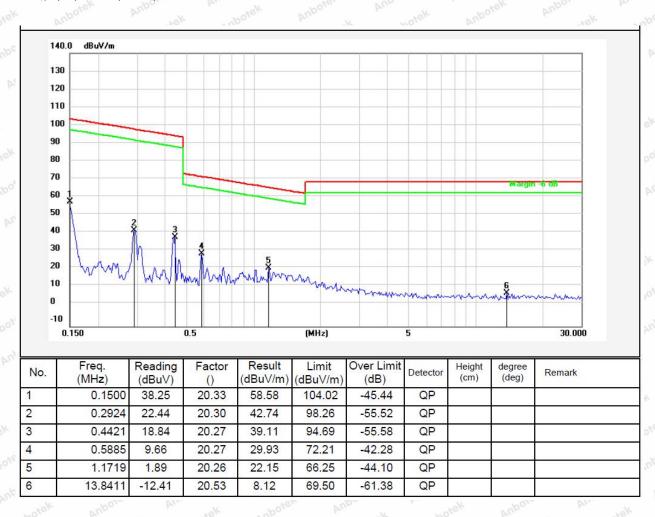
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Test Results (Between 0.15MHz - 30MHz)

Test Mode: Mode 1

Distance: 3m

Power Source: AC 120V, 60Hz Temp.($^{\circ}$ C)/Hum.($^{\circ}$ RH): 24.5 $^{\circ}$ C/53 $^{\circ}$ RH



Remark: According to FCC PART 15.209 (d), the emission limits for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz, Radiated emission limits in these three bands are based on measurements employing an average detector.







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Test Results (Between 30MHz -1000 MHz)

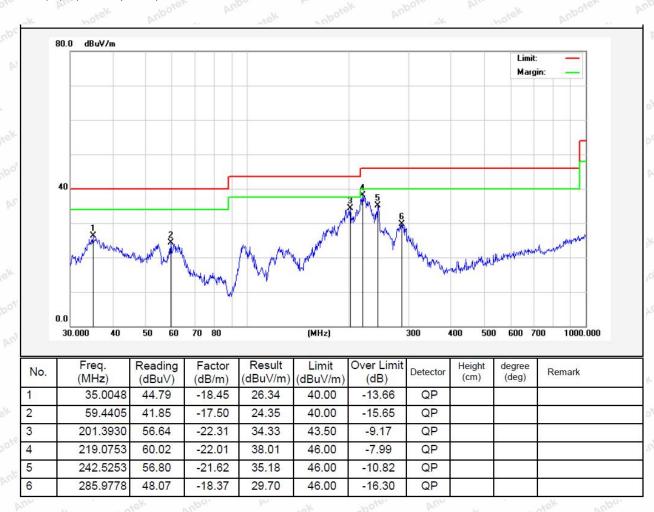
Test Mode: Mode 1

Distance: 3m

Power Source: AC 120V, 60Hz

Polarization: Horizontal

Temp.(℃)/Hum.(%RH): 23.5℃/62%RH







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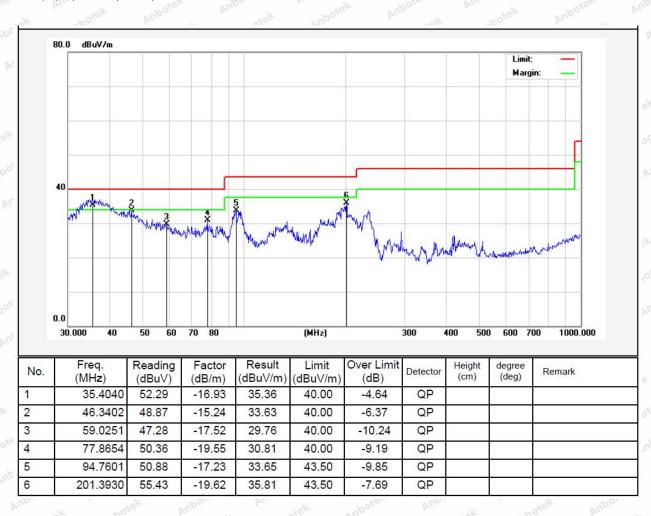
Test Mode: Mode 1

Distance: 3m

Power Source: AC 120V, 60Hz

Polarization: Vertical

Temp.(℃)/Hum.(%RH): 23.5℃/62%RH







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5. Antenna Requirement

5.1. Test Standard and Requirement

Test Standard	FCC Part15 Section 15.203
Requirement	1) 15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

5.2. Antenna Connected Construction

The antenna is a Inductive loop coil Antenna which permanently attached, and the best case gain of the antenna is 0 dBi. It complies with the standard requirement.





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APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files Appendix I -- Test Setup Photograph_RF

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

