

Report No.: 18360WC40006701 Page 1 of 22 FCC ID: 2BBM4-E600

# **FCC Test Report**

**Chongqing Radiance Energy Technology Applicant** 

Co.,Ltd.

No.27-3 Feng Sheng Road, Jiu Long Po **Address** 

District, Chongqing City, China.

**Product Name Portable Power Station** 

Jun. 18, 2024 **Report Date** 

Shenzhen Anbotek Continue



Laboratory Limited







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# **TEST REPORT**

Applicant : Chongqing Radiance Energy Technology Co.,Ltd.

Manufacturer : Chongqing Radiance Energy Technology Co.,Ltd.

Product Name : Portable Power Station

Test Model No. : E600

Reference Model No. : N/A

Trade Mark : N/A

Rating(s) : Please refer to page 6

Test Standard(s) : 47 CFR Part 15 Subpart C

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 47 CFR 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			May 09, 2024	
Date of Test		Anbo. M	ay 09~ Jun. 12, 2024	ye. And
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			(TuTu Hong)	
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### **Revision History**

Repo	ort Version			Descripti	on		Issued Date	
Anboten	R00	1000	8K	Original Is	sue.	unboten J	un. 18, 2024	spotek
abotek	Anbore	burn	-otek	Anboren	Anb	nbotek	Aupor	Pro-
A. otek	Anbore	VU	You	botek	Anbo	Pr. Olek	Aupole.	Visco





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# 1. General Information

### 1.1. Client Information

The second second	3.00	
Applicant	:	Chongqing Radiance Energy Technology Co.,Ltd.
Address	:	No.27-3 Feng Sheng Road, Jiu Long Po District, Chongqing City,China.
Manufacturer	:	Chongqing Radiance Energy Technology Co.,Ltd.
Address	:	No.27-3 Feng Sheng Road, Jiu Long Po District, Chongqing City,China.
Factory	:	Chongqing Radiance Energy Technology Co.,Ltd.
Address	:	No.27-3 Feng Sheng Road, Jiu Long Po District, Chongqing City,China.

# 1.2. Description of Device (EUT)

Product Name	:	Portable Power Station
Test Model No.	:	E600
Reference Model No.	:	N/A nbotek Anbotek Anbotek Anbotek Anbotek Anbotek
Trade Mark	:	N/A Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
Test Power Supply	:	AC 120V/60Hz for adapter
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	Model: HKA10020050-0A6 Input: 100-240V~60/50Hz, 1.8A Output: 20.0V= 5.0A, 100.0W
RF Specification		
Operation Frequency	:	111-205KHz
Modulation Type	:	ASK Anborek Anborek Anborek
Antenna Type	:	Inductive loop coil Antenna
Antenna Gain(Peak)	:	0 dBi (Provided by customer)
Remark: 1) All of the F	₹F	specification are provided by customer. 2) For a more detailed features

**Remark:** 1) All of the RF specification are provided by customer. 2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.







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Rating(s):

FLEXIBLE POWER SOLUTIONS

Product Name: Portable Power Station

Model: E600

Capacity: 515Wh 22.2V 23.2Ah

USB-C Output: 65W 5V-3A, 9V-3A, 12V-3A, 15V-3A, 20V-3\_25A USB Output: USB-A(x3) 5V-2.4A

USB-A Fast Charge :5V-3A, 9V-2A, 12V-1.5A 18W max

AC Output(x2): 600W 120VAC 60Hz

DC Output: 13V-10A

DC Input: 12V-30V-8.5A (max)

Wireless: 10W

Discharging temperature: 14°F-104°F(-10°C-40°C) Charging temperature: 42.8°F-104°F(6°C-40°C)

DC Total output: 259W AC output: 600W FCC ID: 2BBM4-E600 IC ID: 32411-E600









To ensure safe and proper use of the power station, always follow the manufacturer's instructions as improper use can increase risks.

# CALIFORNIA PROPOSITION A 65 WARNING A

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

ADVERTENCIA: Este producto contiene productos qu micos reconocidos por el estado de California que provocan cáncer, defectos de nacimiento u otros daños reproductivos.

For more information: www.P65Warnings.ca.gov

### 1.3. Auxiliary Equipment Used During Test

Description	Rating(s)				
Wireless charging load	M/N: CD2577	Mupo,	p. botek	Anborer	PL.
Jotel And ak botel	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	WTP Mode (10W 1% Load)	Anbotek
+	Mode 2	WTP Mode (10W 50% Load)	Anbor
ote	Mode 3	WTP Mode (10W 99% Load)	An

Ì	For Conducted Emission				
Final Test Mode Description					
	Mode 1	WTP Mode (10W 1% Load)			
Yek	Mode 2	WTP Mode (10W 50% Load)			

#### **Shenzhen Anbotek Compliance Laboratory Limited**

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10/2	
Mode 3	WTP Mode (10W 99% Load)
MINIOGC O	WIT Mode (10W 3370 Edda)

	For Radiated Emission					
Final Test Mode Description						
Mod	e 1 <sub>Anboten</sub>	Anboatek	WTP Mode (1	0W 1% Load)	Anboten	Anbo
Mod	e 2 Anbotes	k Pupp	WTP Mode (10	0W 50% Load)	Anboren	K AUD
Mod	e3 Ambot	k Aug Polek	WTP Mode (10	0W 99% Load)	ek Anbore	1

#### Note:

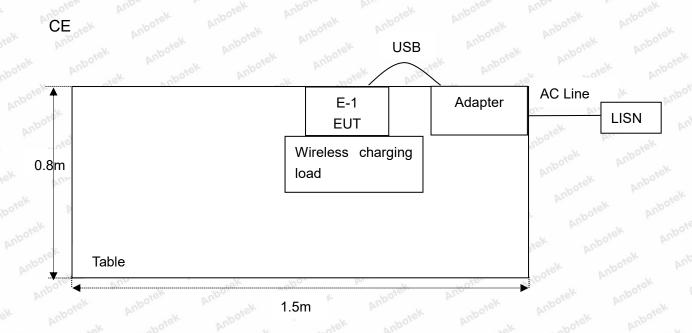
- (1) Test channel is 0.1348MHz.
- (2) All the situation(full load, half load and empty load) has been tested,only the worst situation (Mode 3) was recorded in the report.



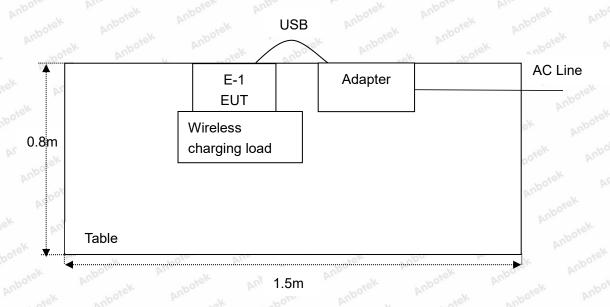


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#### 1.5. Description Of Test Setup



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# 1.6. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
Anbo 1.	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	Jan. 18, 2024	1 Year
2.	Three Phase V-type Artificial Power Network	CYBERTEK	EM5040DT	E215040DT001	Jan. 18, 2024	1 Year
3.º <sup>k</sup>	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Oct. 12, 2023	1 Year
4.04	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	Jan. 23, 2024	1 Year
5. <sub>An</sub> i	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Oct. 12, 2023	1 Year
6.	EMI Preamplifier	SKET Electronic	LNPA-0118G -45	SKET-PA-002	Jan. 17, 2024	1 Year
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. 12, 2023	1 Year
10.	Horn Antenna	A-INFO	LB-180400- KF	J211060628	Oct. 12, 2023	1 Year
M1.	Pre-amplifier	SONOMA	310N	186860	Jan. 17, 2024	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. 12, 2023	1 Year
14.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Oct. 12, 2023	1 Year
15.	Signal Generator	Agilent	E4421B	MY41000743	Oct. 12, 2023	1 Year
16.	DC Power Supply	IVYTECH	IV3605	1804D360510	Oct. 20, 2023	1 Year
17, ×	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80 B	N/A	Oct. 16, 2023	1 Year
18.	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	May. 06, 2024	1 Year





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#### 1.7. Measurement Uncertainty

	Parameter	Uncertainty
	Conducted emissions (AMN 150kHz~30MHz)	3.8dB
Ļ.	Radiated spurious emissions (Below 30MHz)	3.53dB
orel	Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.92dB; Vertical: 4.52dB

The measurement uncertainty and decision risk evaluated according to AB/WI-RF-F-032.

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

#### 1.8. Description of Test Facility

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

#### FCC-Registration No.: 434132

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. 434132.

#### 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.

#### 1.9. Disclaimer

- 1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- The test report is invalid if there is any evidence and/or falsification.
- 3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- 4. This document may not be altered or revised in any way unless done so by Anbotek and all revisions are duly noted in the revisions section.
- 5. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- 6. The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.

The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

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### 2. Summary of Test Results

Star	ndard Section		Test Item	Result		
Anbotek	15.203	potek	Antenna Requirement	PASS		
Anbote.	15.207	Anborek	Conducted Emission Test	PASS		
15.205/15.209			Spurious Emission	PASS		





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### 3. Conducted Emission Test

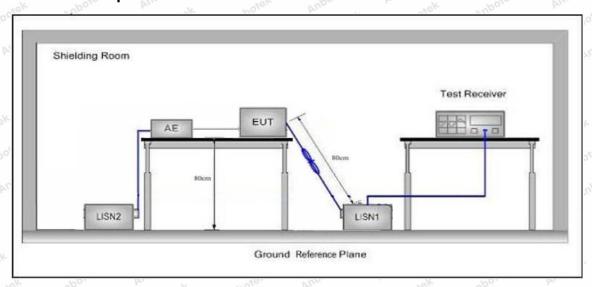
#### 3.1. Test Standard and Limit

FCC Part15 Section 15.2	07 ATT						
Fraguenay	Maximum RF Line Voltage (dBuV)						
Frequency	Quasi-peak Level	Average Level 56 ~ 46 *					
150kHz~500kHz	66 ~ 56 *						
500kHz~5MHz	56 above	Anto 46					
5MHz~30MHz	60	50 Ambor 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**

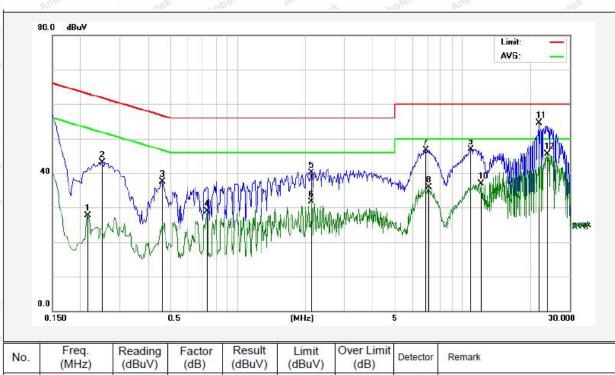
Test Site: 1# Shielded Room

Operating Condition: Mode 1

Test Specification: AC 120V, 60Hz for adapter

Comment: Live Line

Temp.(°C)/Hum.(%RH): 23.4°C/65%RH



Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
0.2140	8.74	18.96	27.70	53.04	-25.34	AVG	
0.2500	24.02	19.10	43.12	61.75	-18.63	QP	
0.4620	18.57	18.99	37.56	56.66	-19.10	QP	
0.7340	9.76	19.09	28.85	46.00	-17.15	AVG	
2.1300	21.39	18.81	40.20	56.00	-15.80	QP	
2.1380	12.98	18.81	31.79	46.00	-14.21	AVG	
6.8860	27.83	18.78	46.61	60.00	-13.39	QP	
7.0780	17.22	18.78	36.00	50.00	-14.00	AVG	
10.8940	28.23	18.77	47.00	60.00	-13.00	QP	
12.0659	18.18	18.81	36.99	50.00	-13.01	AVG	
21.9060	35.60	18.83	54.43	60.00	-5.57	QP	
23.9819	26.73	18.82	45.55	50.00	-4.45	AVG	
	(MHz) 0.2140 0.2500 0.4620 0.7340 2.1300 2.1380 6.8860 7.0780 10.8940 12.0659 21.9060	(MHz) (dBuV) 0.2140 8.74 0.2500 24.02 0.4620 18.57 0.7340 9.76 2.1300 21.39 2.1380 12.98 6.8860 27.83 7.0780 17.22 10.8940 28.23 12.0659 18.18 21.9060 35.60	(MHz)         (dBuV)         (dB)           0.2140         8.74         18.96           0.2500         24.02         19.10           0.4620         18.57         18.99           0.7340         9.76         19.09           2.1300         21.39         18.81           2.1380         12.98         18.81           6.8860         27.83         18.78           7.0780         17.22         18.78           10.8940         28.23         18.77           12.0659         18.18         18.81           21.9060         35.60         18.83	(MHz)         (dBuV)         (dB)         (dBuV)           0.2140         8.74         18.96         27.70           0.2500         24.02         19.10         43.12           0.4620         18.57         18.99         37.56           0.7340         9.76         19.09         28.85           2.1300         21.39         18.81         40.20           2.1380         12.98         18.81         31.79           6.8860         27.83         18.78         46.61           7.0780         17.22         18.78         36.00           10.8940         28.23         18.77         47.00           12.0659         18.18         18.81         36.99           21.9060         35.60         18.83         54.43	(MHz)         (dBuV)         (dB)         (dBuV)         (dBuV)           0.2140         8.74         18.96         27.70         53.04           0.2500         24.02         19.10         43.12         61.75           0.4620         18.57         18.99         37.56         56.66           0.7340         9.76         19.09         28.85         46.00           2.1300         21.39         18.81         40.20         56.00           2.1380         12.98         18.81         31.79         46.00           6.8860         27.83         18.78         46.61         60.00           7.0780         17.22         18.78         36.00         50.00           10.8940         28.23         18.77         47.00         60.00           12.0659         18.18         18.81         36.99         50.00           21.9060         35.60         18.83         54.43         60.00	(MHz)         (dBuV)         (dB)         (dBuV)         (dBuV)         (dB)           0.2140         8.74         18.96         27.70         53.04         -25.34           0.2500         24.02         19.10         43.12         61.75         -18.63           0.4620         18.57         18.99         37.56         56.66         -19.10           0.7340         9.76         19.09         28.85         46.00         -17.15           2.1300         21.39         18.81         40.20         56.00         -15.80           2.1380         12.98         18.81         31.79         46.00         -14.21           6.8860         27.83         18.78         46.61         60.00         -13.39           7.0780         17.22         18.78         36.00         50.00         -14.00           10.8940         28.23         18.77         47.00         60.00         -13.01           21.9060         35.60         18.83         54.43         60.00         -5.57	(MHz)         (dBuV)         (dB)         (dBuV)         (dBuV)         (dB)         Detector           0.2140         8.74         18.96         27.70         53.04         -25.34         AVG           0.2500         24.02         19.10         43.12         61.75         -18.63         QP           0.4620         18.57         18.99         37.56         56.66         -19.10         QP           0.7340         9.76         19.09         28.85         46.00         -17.15         AVG           2.1300         21.39         18.81         40.20         56.00         -15.80         QP           2.1380         12.98         18.81         31.79         46.00         -14.21         AVG           6.8860         27.83         18.78         46.61         60.00         -13.39         QP           7.0780         17.22         18.78         36.00         50.00         -14.00         AVG           10.8940         28.23         18.77         47.00         60.00         -13.01         AVG           21.9060         35.60         18.83         54.43         60.00         -5.57         QP





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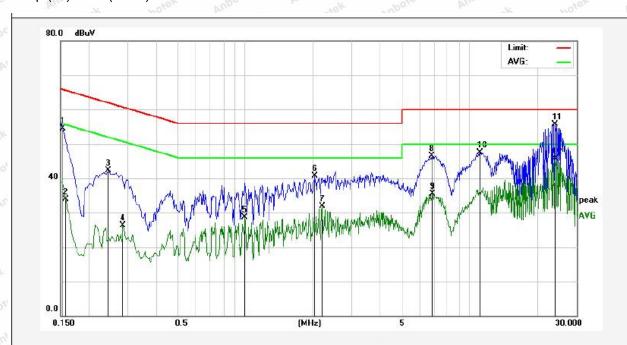
#### **Conducted Emission Test Data**

Test Site: 1# Shielded Room

Operating Condition: Mode 1

Test Specification: AC 120V, 60Hz for adapter

Comment: Neutral Line Temp.( $^{\circ}$ )/Hum.( $^{\circ}$ RH): 23.4 $^{\circ}$ C/65 $^{\circ}$ RH



Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
0.1539	35.54	18.93	54.47	65.78	-11.31	QP	
0.1582	15.03	18.93	33.96	55.55	-21.59	AVG	
0.2460	23.15	19.09	42.24	61.89	-19.65	QP	
0.2860	7.31	19.04	26.35	50.64	-24.29	AVG	
0.9980	9.76	18.92	28.68	46.00	-17.32	AVG	2
2.0500	21.98	18.81	40.79	56.00	-15.21	QP	
2.2020	13.18	18.81	31.99	46.00	-14.01	AVG	
6.7859	27.76	18.78	46.54	60.00	-13.46	QP	
6.8499	16.73	18.78	35.51	50.00	-14.49	AVG	
11.0859	28.76	18.78	47.54	60.00	-12.46	QP	
24.0380	36.90	18.82	55.72	60.00	-4.28	QP	
24.0380	26.91	18.82	45.73	50.00	-4.27	AVG	
	(MHz) 0.1539 0.1582 0.2460 0.2860 0.9980 2.0500 2.2020 6.7859 6.8499 11.0859 24.0380	(MHz) (dBuV) 0.1539 35.54 0.1582 15.03 0.2460 23.15 0.2860 7.31 0.9980 9.76 2.0500 21.98 2.2020 13.18 6.7859 27.76 6.8499 16.73 11.0859 28.76 24.0380 36.90	(MHz)         (dBuV)         (dB)           0.1539         35.54         18.93           0.1582         15.03         18.93           0.2460         23.15         19.09           0.2860         7.31         19.04           0.9980         9.76         18.92           2.0500         21.98         18.81           2.2020         13.18         18.81           6.7859         27.76         18.78           6.8499         16.73         18.78           11.0859         28.76         18.78           24.0380         36.90         18.82	(MHz)         (dBuV)         (dB)         (dBuV)           0.1539         35.54         18.93         54.47           0.1582         15.03         18.93         33.96           0.2460         23.15         19.09         42.24           0.2860         7.31         19.04         26.35           0.9980         9.76         18.92         28.68           2.0500         21.98         18.81         40.79           2.2020         13.18         18.81         31.99           6.7859         27.76         18.78         46.54           6.8499         16.73         18.78         35.51           11.0859         28.76         18.78         47.54           24.0380         36.90         18.82         55.72	(MHz)         (dBuV)         (dB)         (dBuV)         (dBuV)           0.1539         35.54         18.93         54.47         65.78           0.1582         15.03         18.93         33.96         55.55           0.2460         23.15         19.09         42.24         61.89           0.2860         7.31         19.04         26.35         50.64           0.9980         9.76         18.92         28.68         46.00           2.0500         21.98         18.81         40.79         56.00           2.2020         13.18         18.81         31.99         46.00           6.7859         27.76         18.78         46.54         60.00           6.8499         16.73         18.78         35.51         50.00           11.0859         28.76         18.78         47.54         60.00           24.0380         36.90         18.82         55.72         60.00	(MHz)         (dBuV)         (dB)         (dBuV)         (dBuV)         (dB)           0.1539         35.54         18.93         54.47         65.78         -11.31           0.1582         15.03         18.93         33.96         55.55         -21.59           0.2460         23.15         19.09         42.24         61.89         -19.65           0.2860         7.31         19.04         26.35         50.64         -24.29           0.9980         9.76         18.92         28.68         46.00         -17.32           2.0500         21.98         18.81         40.79         56.00         -15.21           2.2020         13.18         18.81         31.99         46.00         -14.01           6.7859         27.76         18.78         46.54         60.00         -13.46           6.8499         16.73         18.78         35.51         50.00         -14.49           11.0859         28.76         18.78         47.54         60.00         -12.46           24.0380         36.90         18.82         55.72         60.00         -4.28	(MHz)         (dBuV)         (dB)         (dBuV)         (dBuV)         (dB)         Detector           0.1539         35.54         18.93         54.47         65.78         -11.31         QP           0.1582         15.03         18.93         33.96         55.55         -21.59         AVG           0.2460         23.15         19.09         42.24         61.89         -19.65         QP           0.2860         7.31         19.04         26.35         50.64         -24.29         AVG           0.9980         9.76         18.92         28.68         46.00         -17.32         AVG           2.0500         21.98         18.81         40.79         56.00         -15.21         QP           2.2020         13.18         18.81         31.99         46.00         -14.01         AVG           6.7859         27.76         18.78         46.54         60.00         -13.46         QP           6.8499         16.73         18.78         35.51         50.00         -14.49         AVG           11.0859         28.76         18.78         47.54         60.00         -4.28         QP           24.0380         36.90 <t< td=""></t<>





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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	-botek Anbo	ye. And	otek Anbote
	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz~0.490MHz	2400/F(kHz)	Vupo.	An abotek	300
	0.490MHz-1.705MHz	24000/F(kHz)	Anbore tek	anotek .	30
	1.705MHz-30MHz	30 Anbo	lek - Vupo.	ek -nbotel	30
Test Limit	30MHz~88MHz	100	40.0	Quasi-peak	3 Aupor
	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 of each
	Above 1000MHz	Ann hotek An	74.0	Peak	Jek 3 <sub>Anbore</sub>

#### 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

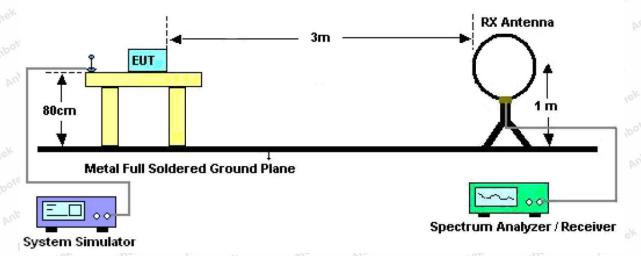


Figure 1. Below 30MHz







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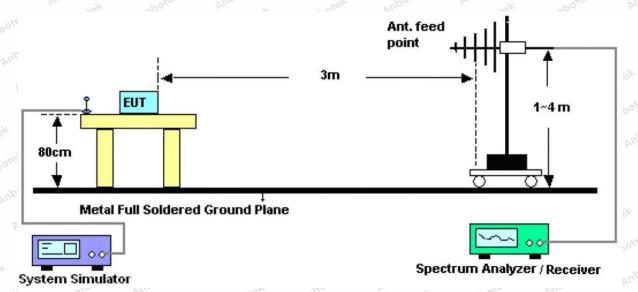


Figure 2. 30MHz to 1GHz

#### 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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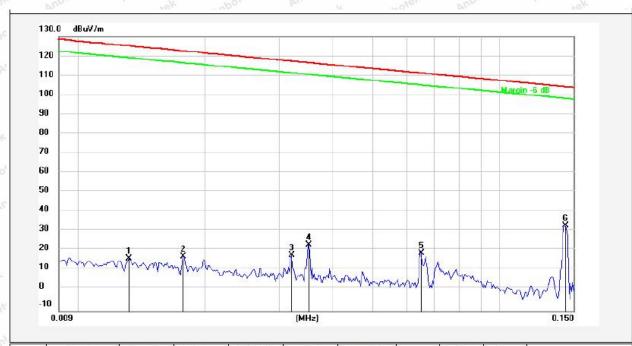
#### Test Results (Between 9KHz - 150KHz)

Test Mode: Mode 1

Distance: 3m

Power Source: AC 120V, 60Hz for adapter

Temp.(°C)/Hum.(%RH): 23.5°C/49%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	0.0132	-3.54	20.16	16.62	125.09	-108.47	QP			
2	0.0177	-2.40	20.15	17.75	122.55	-104.80	QP			
3	0.0320	-2.07	20.56	18.49	117.42	-98.93	QP			
4	0.0352	3.44	20.48	23.92	116.60	-92.68	QP			
5	0.0649	-0.95	20.38	19.43	111.30	-91.87	QP			
6	0.1348	13.24	20.34	33.58	104.94	-71.36	QP			





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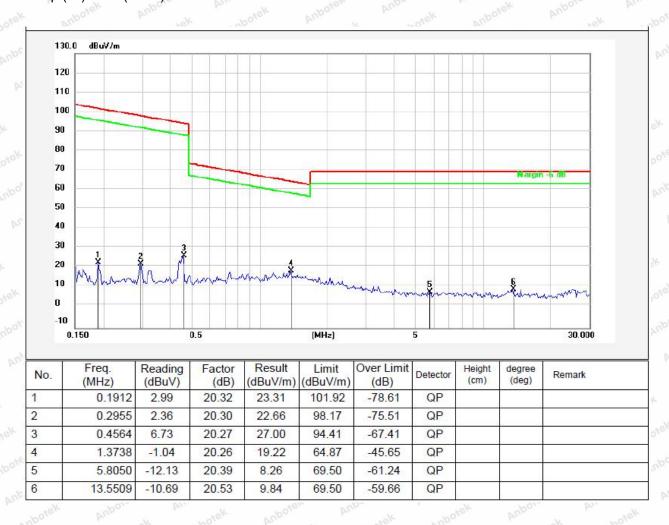
Test Results (Between 0.15MHz - 30MHz)

Test Mode: Mode 1

Distance: 3m

Power Source: AC 120V, 60Hz for adapter

Temp.(°C)/Hum.(%RH): 23.5°C/49%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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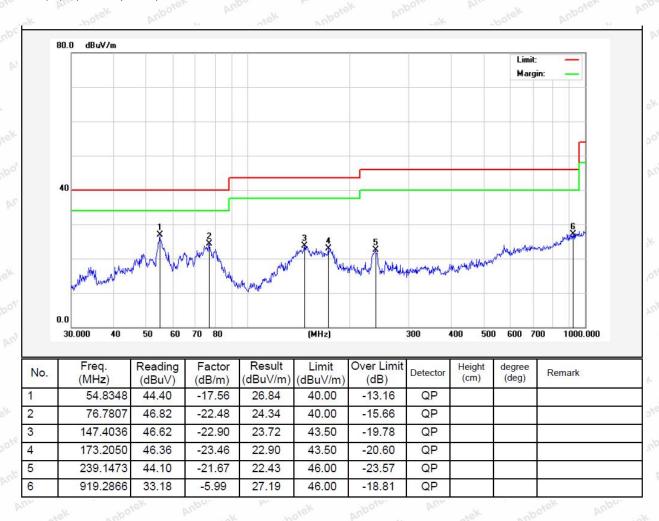
Test Results (Between 30MHz -1000 MHz)

Test Mode: Mode 1
Distance: 3m

Power Source: AC 120V, 60Hz for adapter

Polarization: Horizontal

Temp.(°C)/Hum.(%RH): 20.3°C/46%RH







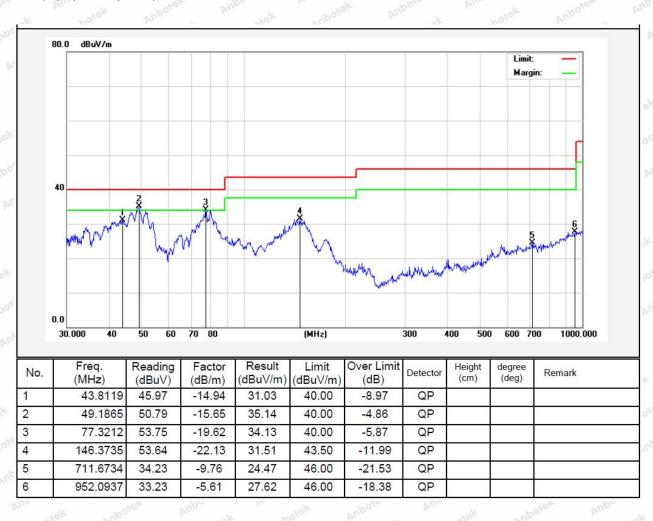
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Test Mode: Mode 1
Distance: 3m

Power Source: AC 120V, 60Hz for adapter

Polarization: Vertical

Temp.(°C)/Hum.(%RH): 20.3°C/46%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

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