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Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053 Report No.: SZEM171001099701

Fax: +86 (0) 755 2671 0594 Page: 1 of 21

TEST REPORT

Application No.: SZEM1710010997IT

Applicant: RAAMaudio UK LTD t/a Pi Supply

Address of Applicant: Unit 4 Yew Green Business Court, Bells Yew Green, East Sussex, TN39BJ,

**United Kingdom** 

Manufacturer: RAAMaudio UK LTD t/a Pi Supply

Address of Manufacturer: Unit 4 Yew Green Business Court, Bells Yew Green, East Sussex, TN39BJ,

United Kingdom

Factory: Embest Technology Co., Ltd

Address of Factory: Tower B 4/F, Shanshui Building, Nanshan Yungu Innovation Industry Park,

Liuxian Ave. No.1183, Nanshan District, Shenzhen, Guangdong, China

**Equipment Under Test (EUT):** 

**EUT Name:** PiJuice HAT **Model No.:** PiJuice HAT

Standard(s): ICES-003:lssue 6, 2016

**Date of Receipt:** 2017-10-30

**Date of Test:** 2017-10-30 to 2017-11-03

**Date of Issue:** 2017-11-08

Test Result: Pass\*

SERVICES CO.

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Jack Zhang EMC Laboratory Manager

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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



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Revision Record							
Version	Version Chapter Date Modifier Ren						
01		2017-11-08		Original			

Authorized for issue by:		
	Lorda	
	Leo Lai /Project Engineer	
	Eric Fu	
	Eric Fu /Reviewer	



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### 2 Test Summary

Emission Part							
Item	Standard	Method	Requirement	Result			
Conducted Emissions at Mains Terminals (150kHz-30MHz)	ICES-003:Issue 6, 2016	ANSI C63.4	Class B	Pass			
Radiated Emissions (30MHz-1GHz)	ICES-003:Issue 6, 2016	ANSI C63.4	Class B	Pass			
Radiated Emissions (above 1GHz)	ICES-003:Issue 6, 2016	ANSI C63.4	Class B	Pass			

Internal Source	Upper Frequency
Below 1.705MHz	30MHz
1.705MHz to 108MHz	1GHz
108MHz to 500MHz	2GHz
500MHz to 1GHz	5GHz
Above 1GHz	5th harmonic of the highest frequency or 40GHz, whichever is lower



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### 4 General Information

#### 4.1 Details of E.U.T.

Power supply:	DC 3.7 or DC 5V from USB port	
Cable:	1m shielded USB cable	
Internal source:	Less than 108MHz	

### 4.2 Description of Support Units

Description Manufacturer		Model No.	Serial No.
U-disk	Sandisk	SDCZ60-016G	REF. No.SEA0100
TF Card	Kingston	SDC8GB	REF. No.SEA0400
Micro USB Cable	PHILIPS	SWR2101	REF. No.SEA0700
HDMI Cable	Apple	MC838FE/B	REF. No.SEA0900
AC/DC Adapter	SGS	DC 5V	REF. No.SEA0500
Monitor	AOC	280LM00004	KBWG9JA000563

#### 4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1 Conduction emission 3.0dB (150kHz to 30MHz		3.0dB (150kHz to 30MHz)
2 Radiated emission		4.5dB (30MHz-1GHz)
2 Radiated emission	4.8dB (1GHz-6GHz)	
3	Temperature test	1℃
4	Humidity test	3%



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#### 4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

#### 4.5 Test Facility

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

#### CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC

Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

#### A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

#### VCCI

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-823, R-4188, T-1153 and C-2383 respectively.

#### FCC –Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

#### Industry Canada (IC)

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.

#### 4.6 Deviation from Standards

None

#### 4.7 Abnormalities from Standard Conditions

None



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### 5 Equipment List

Conducted Emissions at Mains Terminals (150kHz-30MHz)						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Shielding Room	ChangZhou ZhongYu	GB-88	SEM001-06	2017-05-10	2018-05-09	
Measurement Software	AUDIX	e3 V5.4.1221d	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM024-01	2017-07-13	2018-07-12	
LISN	Rohde & Schwarz	ENV216	SEM007-01	2017-09-27	2018-09-26	
LISN	ETS-LINDGREN	3816/2	SEM007-02	2017-04-14	2018-04-13	
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2017-04-14	2018-04-13	

Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2017-08-05	2020-08-04
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2017-07-13	2018-07-12
EMI Test Receiver	Agilent Technologies	N9038A	SEM004-05	2017-09-27	2018-09-26
BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2017-06-27	2020-06-26
Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEM005-01	2017-04-14	2018-04-13

Radiated Emissions (above 1GHz)						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2017-05-02	2020-05-01	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM026-01	2017-07-13	2018-07-12	
EXA Spectrum Analyzer	AgilentTechnologies Inc	N9010A	SEM004-09	2017-06-05	2018-06-04	
Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-06	2015-06-14	2018-06-13	
Low Noise Amplifier (100MHz-18GHz)	Black Diamond Series	BDLNA-0118- 352810	SEM005-05	2017-09-27	2018-09-26	



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General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2017-09-29	2018-09-28
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2017-09-29	2018-09-28
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2017-09-29	2018-09-28
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2017-04-18	2018-04-17



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### 6 Emission Test Results

#### 6.1 Conducted Emissions at Mains Terminals (150kHz-30MHz)

Test Requirement: ICES-003:Issue 6, 2016

Test Method: ANSI C63.4 Frequency Range: 150kHz to 30MHz

Limit:

0.15M-0.5MHz 66dB( $\mu$ V)-56dB( $\mu$ V) quasi-peak, 56dB( $\mu$ V)-46dB( $\mu$ V) average

0.5M-5MHz 56dB( $\mu$ V) quasi-peak, 46dB( $\mu$ V) average 5M-30MHz 60dB( $\mu$ V) quasi-peak, 50dB( $\mu$ V) average

Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

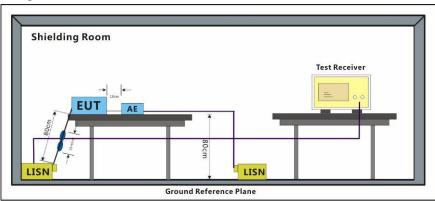
#### 6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 45 % RH Atmospheric Pressure: 1010 mbar

Test mode a:Data transfer&Video play&Network\_Charging

#### 6.1.2 Test Setup Diagram



#### 6.1.3 Measurement Data

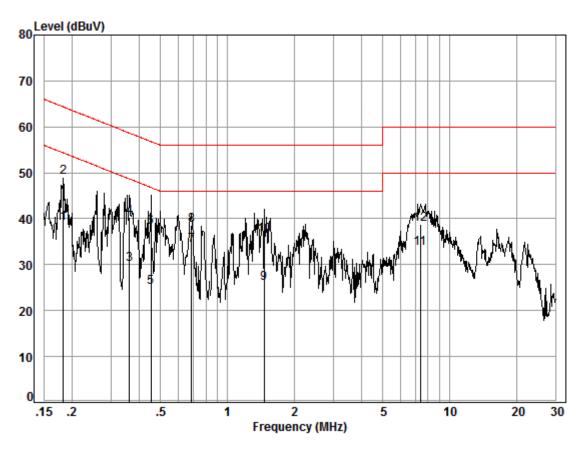
An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.



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Mode:a; Line:Live Line



Site : Shielding Room

Condition: Line Job No. : 10997IT

Test mode: a

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.18	0.02	9.51	29.59	39.12	54.37	-15.25	Average
2	0.18	0.02	9.51	39.41	48.94	64.37	-15.43	QP
3	0.36	0.01	9.50	20.52	30.03	48.65	-18.62	Average
4	0.36	0.01	9.50	30.75	40.26	58.65	-18.39	QP
5	0.45	0.01	9.49	15.66	25.16	46.80	-21.64	Average
6	0.45	0.01	9.49	28.67	38.17	56.80	-18.63	QP
7	0.69	0.02	9.49	24.79	34.30	46.00	-11.70	Average
8	0.69	0.02	9.49	29.11	38.62	56.00	-17.38	QP
9	1.46	0.02	9.51	16.44	25.97	46.00	-20.03	Average
10	1.46	0.02	9.51	26.89	36.42	56.00	-19.58	QP
11	7.41	0.01	9.60	23.93	33.54	50.00	-16.46	Average
12	7.41	0.01	9.60	29.19	38.80	60.00	-21.20	QP

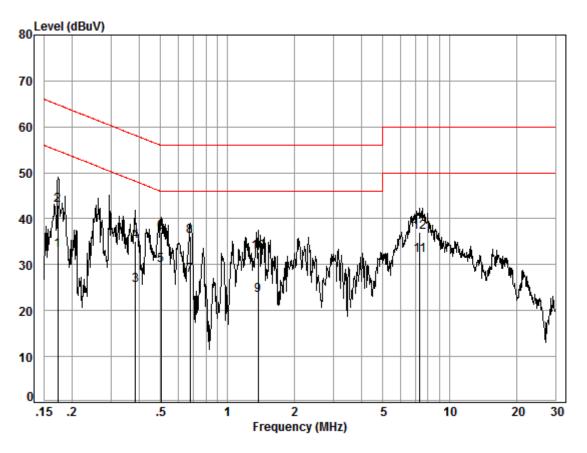
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Mode:a; Line:Neutral Line



Site : Shielding Room

Condition: Neutral Job No. : 10997IT

Test mode: a

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.17	0.02	9.59	23.56	33.17	54.81	-21.64	Average
2	0.17	0.02	9.59	33.34	42.95	64.81	-21.86	QP
3	0.39	0.01	9.59	15.81	25.41	48.17	-22.76	Average
4	0.39	0.01	9.59	25.48	35.08	58.17	-23.09	QP
5	0.50	0.01	9.60	20.30	29.91	46.00	-16.09	Average
6	0.50	0.01	9.60	27.41	37.02	56.00	-18.98	QP
7	0.68	0.02	9.62	18.06	27.70	46.00	-18.30	Average
8	0.68	0.02	9.62	26.65	36.29	56.00	-19.71	QP
9	1.37	0.02	9.63	13.69	23.34	46.00	-22.66	Average
10	1.37	0.02	9.63	23.10	32.75	56.00	-23.25	QP
11	7.37	0.01	9.73	22.26	32.00	50.00	-18.00	Average
12	7.37	0.01	9.73	27.22	36.96	60.00	-23.04	QP

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#### 6.2 Radiated Emissions (30MHz-1GHz)

Test Requirement: ICES-003:Issue 6, 2016

Test Method: ANSI C63.4 Frequency Range: 30MHz to 1GHz

Measurement Distance: 3m

Limit:

30 MHz - 88 MHz  $40.0 (\text{dB}\mu\text{V/m})$  quasi-peak 88 MHz - 216 MHz  $43.5 (\text{dB}\mu\text{V/m})$  quasi-peak 216 MHz - 960 MHz  $46.0 (\text{dB}\mu\text{V/m})$  quasi-peak 960 MHz - 1000 MHz  $54.0 (\text{dB}\mu\text{V/m})$  quasi-peak

Detector: Peak for pre-scan (120kHz resolution bandwidth) 30M to1000MHz

#### 6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 54 % RH Atmospheric Pressure: 1010 mbar

Pretest these a:Data transfer&Video play&Network\_Charging mode to find the worst case:

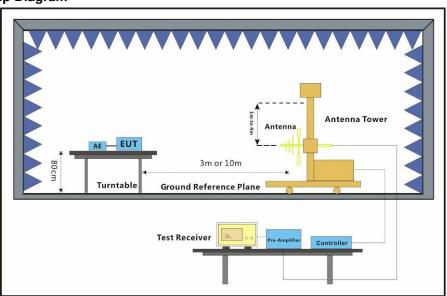
a:Data transfer&Video play&Network\_Battery

The worst case

a:Data transfer&Video play&Network Charging

for final test:

#### 6.2.2 Test Setup Diagram



#### 6.2.3 Measurement Data

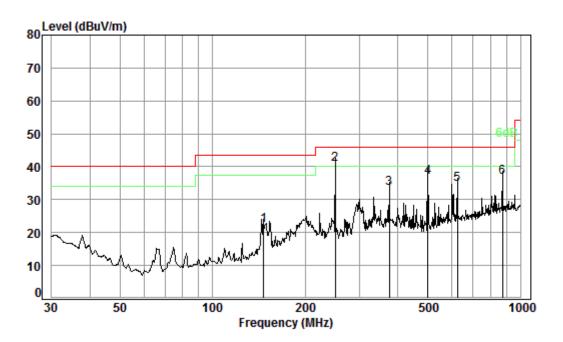
An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.



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Mode:a; Polarization:Horizontal



Condition: 3m HORIZONTAL

Job No. : 10997IT

Test Mode: a

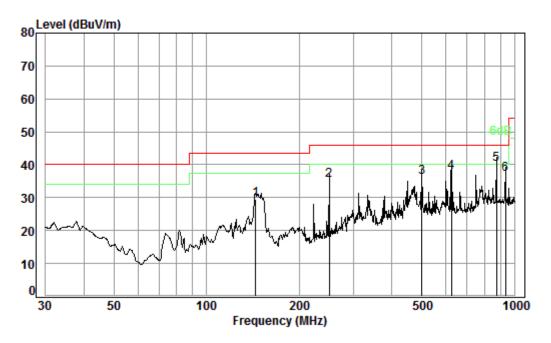
	Freq			Preamp Factor				Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	146.37	1.31	8.67	26.93	39.08	22.13	43.50	-21.37
2 pp	250.30	1.68	12.31	26.54	53.22	40.67	46.00	-5.33
3	375.94	2.14	16.01	26.97	42.22	33.40	46.00	-12.60
4	501.18	2.60	17.83	27.69	43.94	36.68	46.00	-9.32
5	625.08	2.75	20.50	27.51	38.80	34.54	46.00	-11.46
6	875.25	3.50	23.00	26.89	37.05	36.66	46.00	-9.34



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Mode:a; Polarization:Vertical



Condition: 3m VERTICAL Job No. : 10997IT

Test Mode: a

	Freq						Limit Level Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	144.33	1.31	8.49	26.94	46.57	29.43	43.50	-14.07
2	250.30	1.68	12.31	26.54	47.73	35.18	46.00	-10.82
3	501.18	2.60	17.83	27.69	43.46	36.20	46.00	-9.80
4	625.08	2.75	20.50	27.51	42.10	37.84	46.00	-8.16
5 pp	875.25	3.50	23.00	26.89	40.57	40.18	46.00	-5.82
6	935.55	3.64	23.30	26.61	36.87	37.20	46.00	-8.80



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#### 6.3 Radiated Emissions (above 1GHz)

Test Requirement: ICES-003:Issue 6, 2016

Test Method: ANSI C63.4 Frequency Range: Above 1GHz

Measurement Distance: 3m

Limit:

Above 1GHz 74(dBµV/m) peak, 54(dBµV/m) average

Detector: Peak for pre-scan (1000kHz resolution bandwidth) 1000M to18000MHz

#### 6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C Humidity: 54 % RH Atmospheric Pressure: 1010 mbar

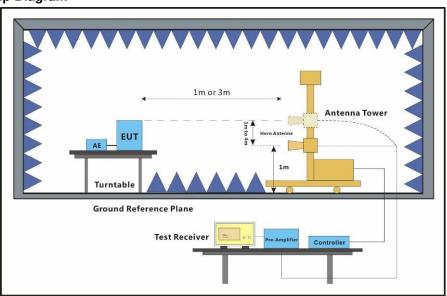
Pretest these a:Data transfer&Video play&Network\_Charging b: Data transfer&Video play&Network\_Battery

worst case:

The worst case a:Data transfer&Video play&Network Charging

for final test:

#### 6.3.2 Test Setup Diagram



#### 6.3.3 Measurement Data

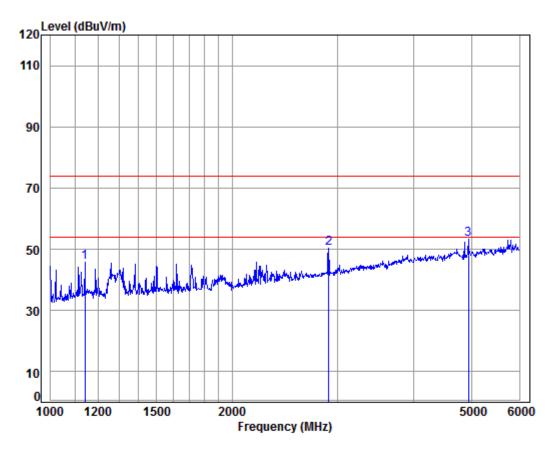
An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.



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Mode:a; Polarization:Horizontal



Condition: 3m Horizontal Job No : 10996IT/10997IT

Mode : a

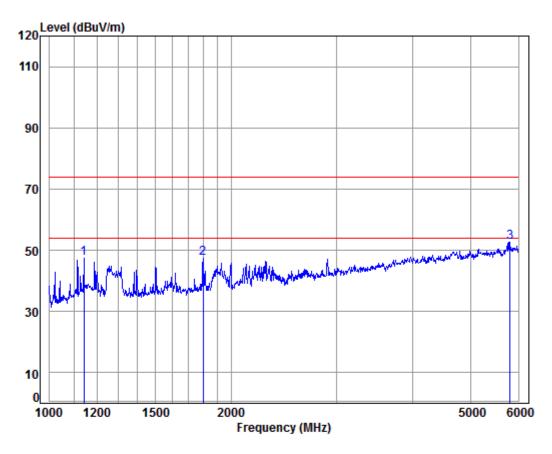
IOUC										
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
1	1139.738	4.17	24.17	37.78	55.32	45.88	74.00	-28.12	Peak	
2	2893.635	5.91	30.92	37.61	51.17	50.39	74.00	-23.61	Peak	
3	op 4935.518	8.02	34.39	37.29	48.06	53.18	74.00	-20.82	Peak	



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Mode:a; Polarization:Vertical



Condition: 3m VERTICAL Job No : 10996IT/10997IT

Mode : a

IOUC										
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
1	1139.738	4.17	24.17	37.78	56.71	47.27	74.00	-26.73	Peak	
2	1799.839	5.11	27.07	37.72	52.87	47.33	74.00	-26.67	Peak	
3 p	p 5809.577	9.93	34.59	37.79	45.89	52.62	74.00	-21.38	Peak	



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### 7 Photographs

7.1 Conducted Emissions at Mains Terminals (150kHz-30MHz) Test Setup

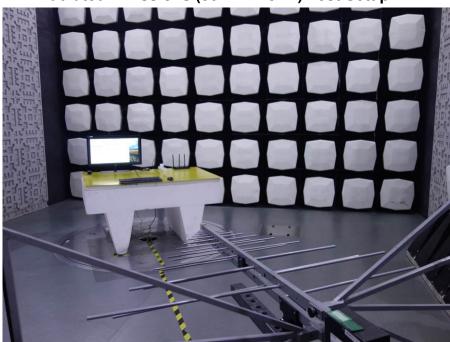




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### 7.2 Radiated Emissions (30MHz-1GHz) Test Setup

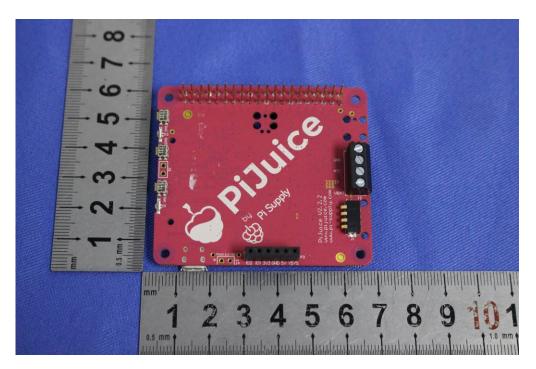


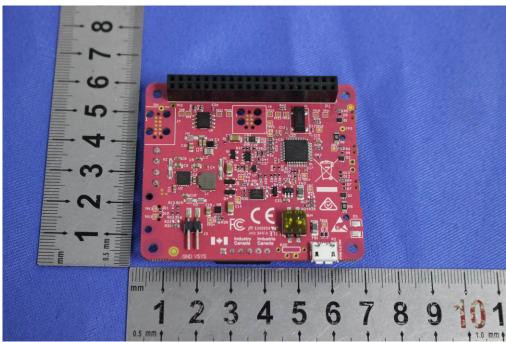


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#### 7.3 EUT Constructional Details







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