




EMC TEST REPORT



Report No.: 15020148-FCC-E
Supersede Report No.: N/A

Applicant	Jiangsu SWR Science & Technology Co.,Ltd	
Product Name	SenseDisc Data Logger	
Main Model	SD00	
Test Standard	FCC Part 15 Subpart B Class B:2014, ANSI C63.4: 2014	
Test Date	March 25 to April 10, 2015	
Issue Date	April 15, 2014	
Test Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	
Equipment complied with the specification	<input checked="" type="checkbox"/>	
Equipment did not comply with the specification	<input type="checkbox"/>	
		
Deon Dai Test Engineer	Herve Idoko Checked By	
This test report may be reproduced in full only Test result presented in this test report is applicable to the tested sample only		

Issued by:
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Technology Development Park, Nanjing, China
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Laboratories Introduction

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



In addition to testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

Accreditations for Conformity Assessment

Country/Region	Scope
USA	EMC, RF/Wireless, SAR, Telecom
Canada	EMC, RF/Wireless, SAR, Telecom
Taiwan	EMC, RF, Telecom, SAR, Safety
Hong Kong	RF/Wireless, SAR, Telecom
Australia	EMC, RF, Telecom, SAR, Safety
Korea	EMI, EMS, RF, SAR, Telecom, Safety
Japan	EMI, RF/Wireless, SAR, Telecom
Singapore	EMC, RF, SAR, Telecom
Europe	EMC, RF, SAR, Telecom, Safety

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1. Report Revision History

Report No.	Report Version	Description	Issue Date
15020148-FCC-E	NONE	Original	April 15, 2014

2. Customer information

Applicant Name	Jiangsu SWR Science & Technology Co.,Ltd
Applicant Add	NO.14 Junnong Road,Qinhuai District ,Nanjing,Jiangsu Province,China
Manufacturer	Jiangsu SWR Science & Technology Co.,Ltd
Manufacturer Add	NO.14 Junnong Road,Qinhuai District ,Nanjing,Jiangsu Province,China

3. Test site information

Lab performing tests	SIEMIC (Nanjing-China) Laboratories
Lab Address	2-1 Longcang Avenue Yuhua Economic and Technology Development Park, Nanjing, China
FCC Test Site No.	986914
IC Test Site No.	4842B-1
Test Software	Labview of SIEMIC version 1.0

4. Equipment under Test (EUT) Information

Description of EUT:	SenseDisc Data Logger
Main Model:	SD00
Serial Model:	SD0010, SD0020, SD0030, SD0040, SD0050
Date EUT received:	March 20, 2015
Test Date(s):	March 25 to April 10, 2015
Antenna Gain:	Bluetooth&BLE: 2 dBi
Type of Modulation:	Bluetooth: GFSK& $\pi/4$ -DQPSK&8DPSK BLE: GFSK
RF Operating Frequency (ies):	Bluetooth&BLE: 2402-2480 MHz(TX/RX)
Number of Channels:	Bluetooth: 79CH BLE: 40CH
Port:	USB Port, Sensor Port*7
Input Power:	Adapter: Model: XHY050100UCB Input: AC 100-240V 50/60Hz 0.3A MAX Output: DC 5V 1.0A Battery: 3.7V 1800mAh
Trade Name :	SenseDisc
FCC ID:	2AEEJ-SD

Note: the difference between these models please refer to Annex E. DECLARATION OF SIMILARITY.

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5. Test Summary

The product was tested in accordance with the following specifications.
All testing has been performed according to below product classification:

FCC Rules	Description of Test	Result
§15.107; ANSI C63.4: 2014	AC Power Line Conducted Emissions	Compliance
§15.109; ANSI C63.4: 2014	Radiated Emissions	Compliance

Measurement Uncertainty

Test Item	Description	Uncertainty
Radiated Emissions	Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m)	3.952dB

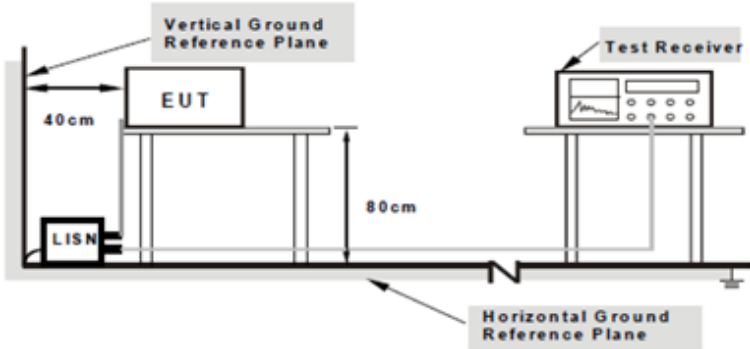
6. Measurements, Examination And Derived Results

6.1 AC Power Line Conducted Emissions

Temperature	20°C
Relative Humidity	50%
Atmospheric Pressure	1019mbar
Test date :	April 10, 2015
Tested By :	Deon Dai

Requirement(s):

Spec	Item	Requirement	Applicable														
47CFR§15.107	a)	<p>1. For Low-power radio-frequency devices that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 [mu]H/50 ohms line impedance stabilization network (LISN). The lower limit applies at the boundary between the frequencies ranges.</p> <table border="1"> <thead> <tr> <th rowspan="2">Frequency ranges (MHz)</th> <th colspan="2">Limit (dBµV)</th> </tr> <tr> <th>QP</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15 ~ 0.5</td> <td>66 – 56</td> <td>56 – 46</td> </tr> <tr> <td>0.5 ~ 5</td> <td>56</td> <td>46</td> </tr> <tr> <td>5 ~ 30</td> <td>60</td> <td>50</td> </tr> </tbody> </table>	Frequency ranges (MHz)	Limit (dBµV)		QP	Average	0.15 ~ 0.5	66 – 56	56 – 46	0.5 ~ 5	56	46	5 ~ 30	60	50	<input checked="" type="checkbox"/>
Frequency ranges (MHz)	Limit (dBµV)																
	QP	Average															
0.15 ~ 0.5	66 – 56	56 – 46															
0.5 ~ 5	56	46															
5 ~ 30	60	50															

Test Setup	 <p>Note: 1. Support units were connected to second LISN. 2. Both of LISNs (AMN) are 80cm from EUT and at least 80cm from other units and other metal planes support units.</p>
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Procedure	<ol style="list-style-type: none"> The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table. The power supply for the EUT was fed through a 50W/50mH EUT LISN, connected to filtered mains. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss coaxial cable. All other supporting equipment were powered separately from another main supply. The EUT was switched on and allowed to warm up to its normal operating condition. A scan was made on the NEUTRAL line (for AC mains) or Earth line (for DC power) over the required frequency range using an EMI test receiver. High peaks, relative to the limit line, were then selected, The EMI test receiver was then tuned to the selected frequencies and the necessary measurements made with a receiver bandwidth setting of 10kHz. Steps 6-7 were repeated for the LIVE line (for AC mains) or DC line (for DC power).
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Remark	
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Test Data	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A
Test Plot	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A

Data sample

Frequency (MHz)	Quasi-Peak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Factors (dB)
xxx	56.21	66.00	-9.79	39.20	56.00	-16.80	12.22

Frequency (MHz) = Emission frequency in MHz

Quasi-Peak/Average (dB μ V/m)=Receiver Reading(dB μ V/m)+ Factor(dB)

Limit(dB μ V/m)=Limit stated in standard

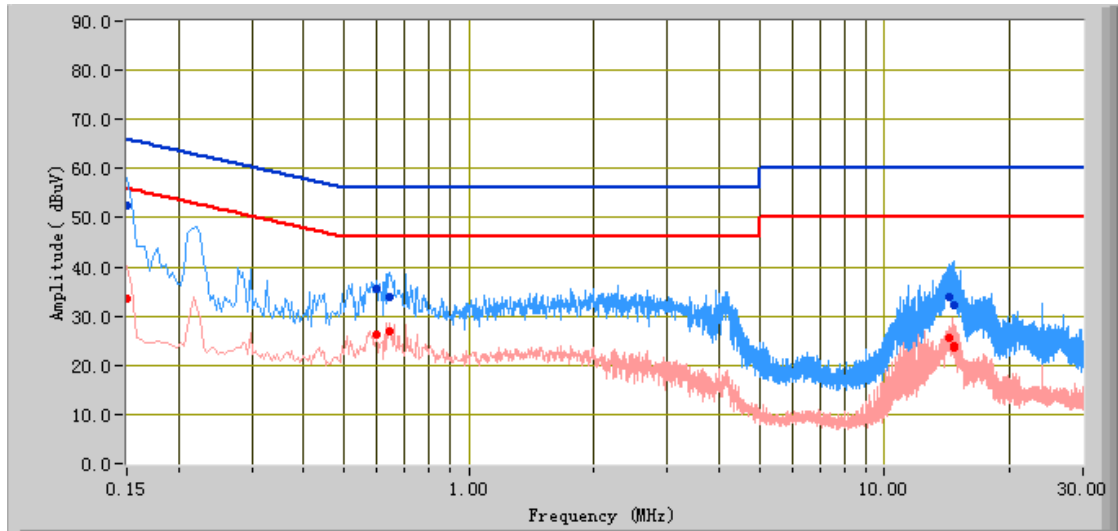
Factor (dB)= cable loss+ Insertion loss of LISN+ Insertion loss of transient limiter (The transient limiter included 10dB attenuation)

Calculation Formula:

Margin (dB)=Quasi Peak / Average (dB μ V/m) – limit (dB μ V/m)

Test Mode: Charging and Downloading

Peak Detector  **Quasi Peak Limit** 
Average Detector  **Average Limit** 



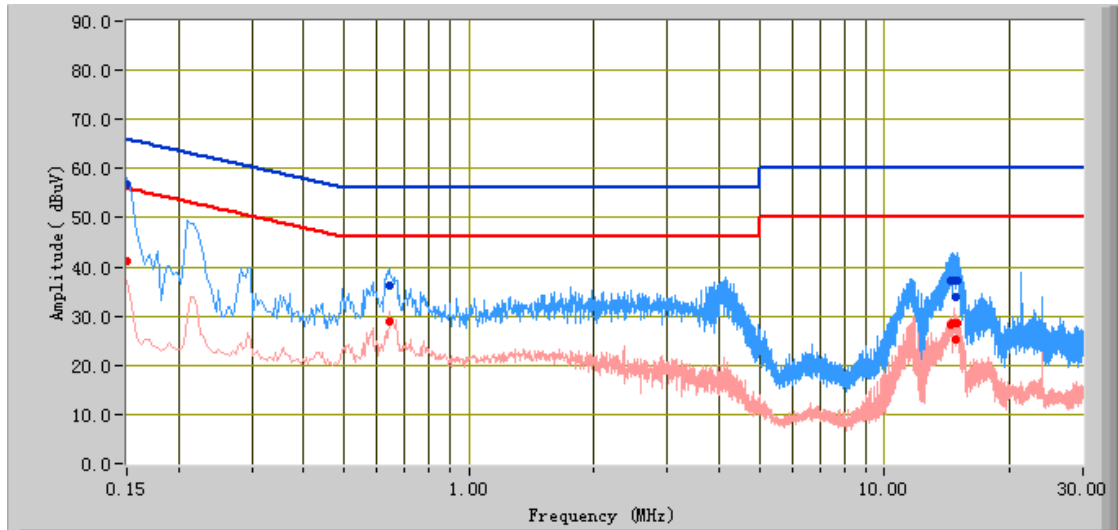
Test Data

Phase Line Plot at 120Vac, 60Hz

Frequency (MHz)	Quasi Peak (dBµV)	Limit (dBµV)	Margin (dB)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Factors (dB)
0.15	52.56	66.00	-13.44	33.67	56.00	-22.33	12.22
0.64	33.88	56.00	-22.12	27.02	46.00	-18.98	10.97
0.60	35.41	56.00	-20.59	26.35	46.00	-19.65	11.01
14.64	32.31	60.00	-27.69	23.85	50.00	-26.15	11.39
14.73	32.33	60.00	-27.67	23.54	50.00	-26.46	11.39
14.30	33.80	60.00	-26.20	25.62	50.00	-24.38	11.37

Test Mode:	Charging and Downloading
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Peak Detector  Quasi Peak Limit 
 Average Detector  Average Limit 



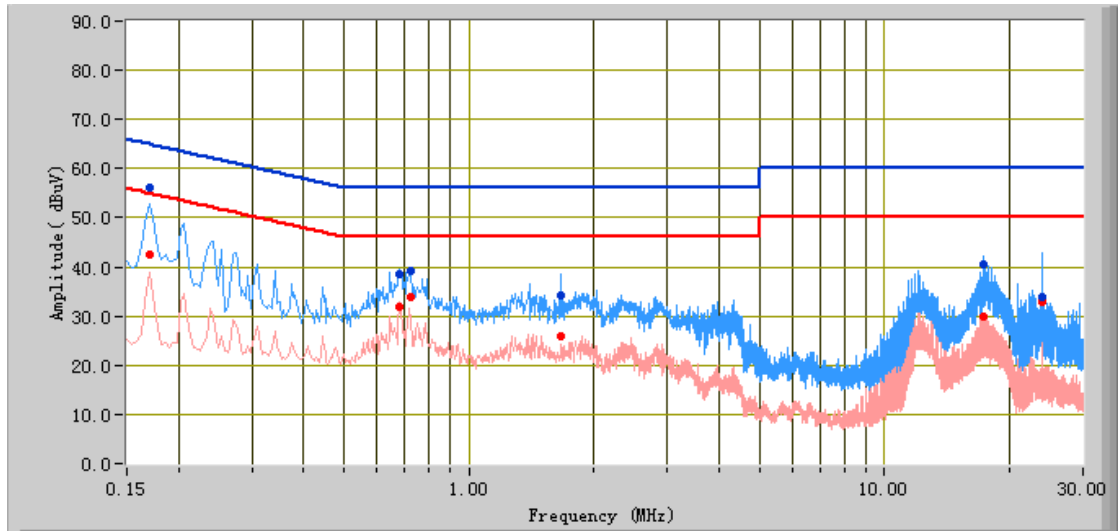
Test Data

Phase Neutral Plot at 120Vac, 60Hz

Frequency (MHz)	Quasi Peak (dBµV)	Limit (dBµV)	Margin (dB)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Factors (dB)
0.15	56.72	66.00	-9.28	41.27	56.00	-14.73	12.21
0.64	36.22	56.00	-19.78	29.01	46.00	-16.99	10.96
14.95	37.06	60.00	-22.94	28.56	50.00	-21.44	11.39
14.61	37.32	60.00	-22.68	28.70	50.00	-21.30	11.37
14.41	37.18	60.00	-22.82	28.29	50.00	-21.71	11.36
14.87	33.71	60.00	-26.29	25.23	50.00	-24.77	11.38

Test Mode: Charging and Downloading

Peak Detector  **Quasi Peak Limit** 
Average Detector  **Average Limit** 



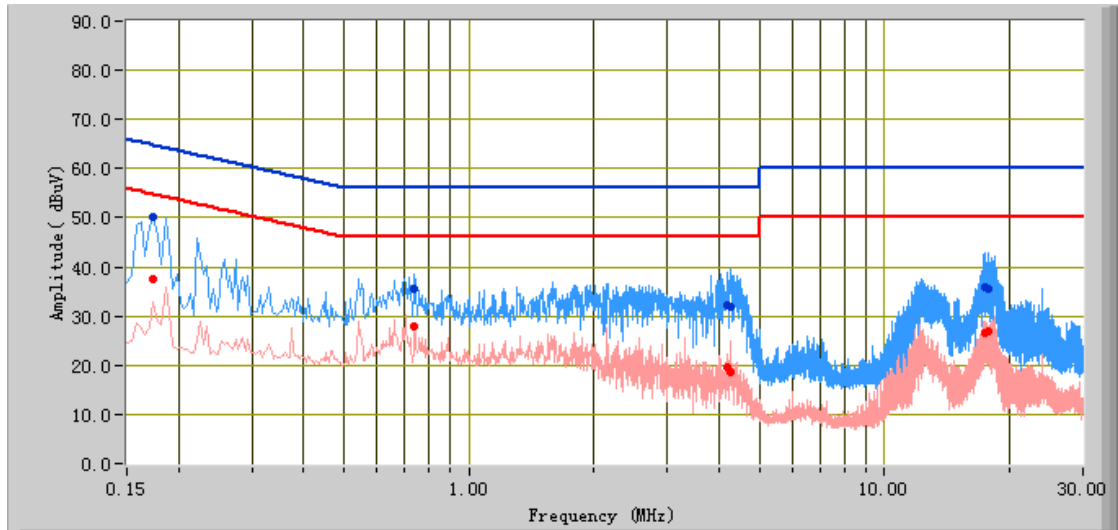
Test Data

Phase Line Plot at 230Vac, 50Hz

Frequency (MHz)	Quasi Peak (dBµV)	Limit (dBµV)	Margin (dB)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Factors (dB)
0.17	56.02	64.96	-8.94	42.40	54.96	-12.56	11.93
0.68	38.37	56.00	-17.63	32.04	46.00	-13.96	10.94
24.00	33.73	60.00	-26.27	32.98	50.00	-17.02	11.67
1.67	34.13	56.00	-21.87	26.02	46.00	-19.98	10.81
17.29	40.60	60.00	-19.40	29.83	50.00	-20.17	11.47
0.73	39.04	56.00	-16.96	33.78	46.00	-12.22	10.90

Test Mode:	Charging and Downloading
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Peak Detector  Quasi Peak Limit 
 Average Detector  Average Limit 



Test Data

Phase Neutral Plot at 230Vac, 50Hz

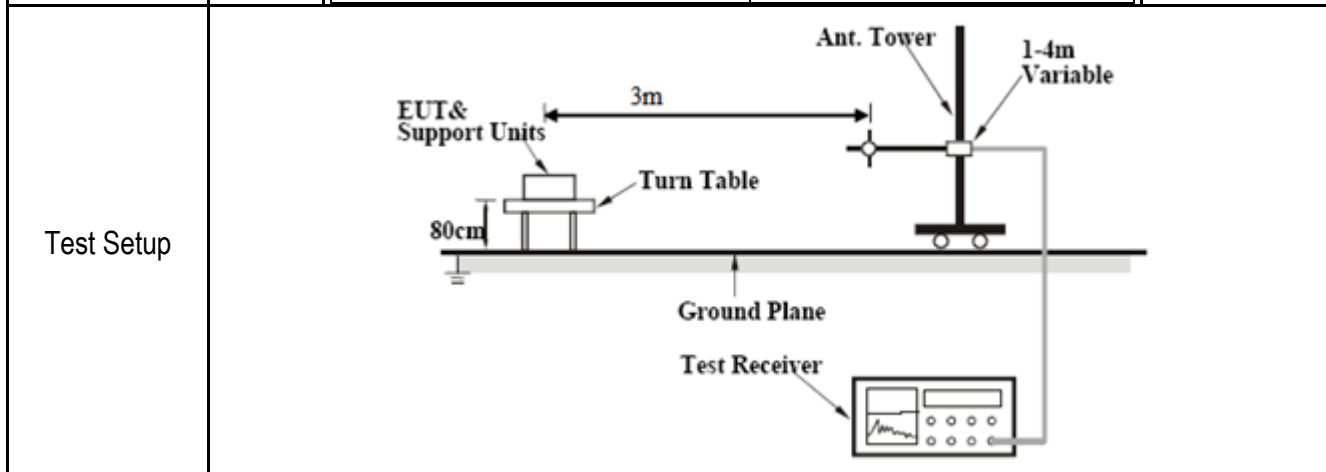
Frequency (MHz)	Quasi Peak (dBµV)	Limit (dBµV)	Margin (dB)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Factors (dB)
0.17	50.26	64.77	-14.51	37.55	54.77	-17.21	11.87
4.27	31.93	56.00	-24.07	18.73	46.00	-27.27	10.94
4.18	32.23	56.00	-23.77	19.49	46.00	-26.51	10.94
17.39	35.87	60.00	-24.13	26.45	50.00	-23.55	11.48
17.84	35.59	60.00	-24.41	26.77	50.00	-23.23	11.50
0.74	35.39	56.00	-20.61	28.00	46.00	-18.00	10.89

6.2 Radiated Emissions

Temperature	20°C
Relative Humidity	50%
Atmospheric Pressure	1019mbar
Test date :	March 25, 2015
Tested By :	Deon Dai

Requirement(s):

Spec	Item	Requirement	Applicable										
47CFR§15.10 7(d)	a)	Except higher limit as specified elsewhere in other section, the emissions from the low-power radio-frequency devices shall not exceed the field strength levels specified in the following table and the level of any unwanted emissions shall not exceed the level of the fundamental emission. The tighter limit applies at the band edges	<input checked="" type="checkbox"/>										
		<table border="1"> <thead> <tr> <th>Frequency range (MHz)</th> <th>Field Strength (µV/m)</th> </tr> </thead> <tbody> <tr> <td>30 – 88</td> <td>100</td> </tr> <tr> <td>88 – 216</td> <td>150</td> </tr> <tr> <td>216 960</td> <td>200</td> </tr> <tr> <td>Above 960</td> <td>500</td> </tr> </tbody> </table>		Frequency range (MHz)	Field Strength (µV/m)	30 – 88	100	88 – 216	150	216 960	200	Above 960	500
		Frequency range (MHz)		Field Strength (µV/m)									
		30 – 88		100									
		88 – 216		150									
216 960	200												
Above 960	500												



Procedure	<ol style="list-style-type: none"> 1. The EUT was switched on and allowed to warm up to its normal operating condition. 2. The test was carried out at the selected frequency points obtained from the EUT characterisation. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner: <ol style="list-style-type: none"> a. Vertical or horizontal polarisation (whichever gave the higher emission level over a full rotation of the EUT) was chosen. b. The EUT was then rotated to the direction that gave the maximum emission. c. Finally, the antenna height was adjusted to the height that gave the maximum emission. 3. For emission frequencies measured below and above 1GHz, set the spectrum analyzer on a 100kHz and 1MHz resolution bandwidth respectively for each frequency measured. 4. Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.
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Remark	
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Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
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Test Data Yes N/A
 Test Plot Yes (See below) N/A

Data sample

Frequency (MHz)	Quasi Peak (dB μ V/m)	Azimuth	Polarity (H/V)	Height (cm)	Factors (dB)	Limit (dB μ V/m)	Margin (dB)
xxx	32.23	181.00	H	350.00	-38.23	40.00	-7.77

Frequency (MHz) = Emission frequency in MHz

Quais-Peak (dB μ V/m)= Receiver Reading(dB μ V/m)+ Factor(dB)

Azimuth=Position of turn table

Polarity=Polarity of Receiver antenna

Height(cm)= Height of Receiver antenna

Factor (dB)=Antenna factor + cable loss- antenna gain



Limit (dB μ V/m)=Limit stated in standard

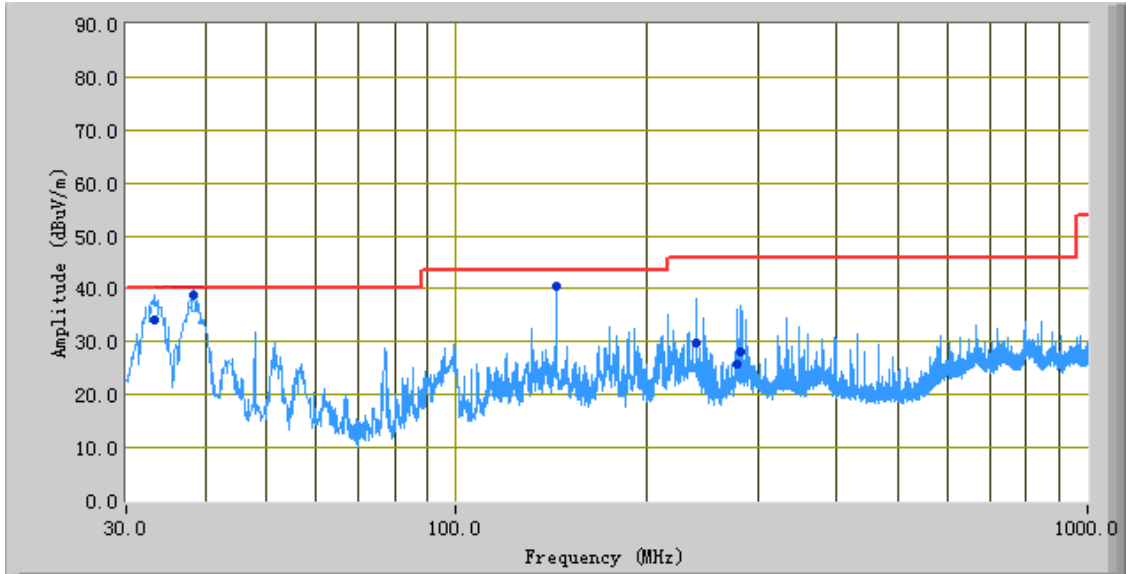
Calculation Formula:

Margin (dB)=Quasi Peak (dB μ V/m) – limit (dB μ V/m)

Test Mode:	Charging and Downloading(Worse Case)
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(Below 1GHz)

Peak Detector 
 Quasi Peak Limit 





Test Data

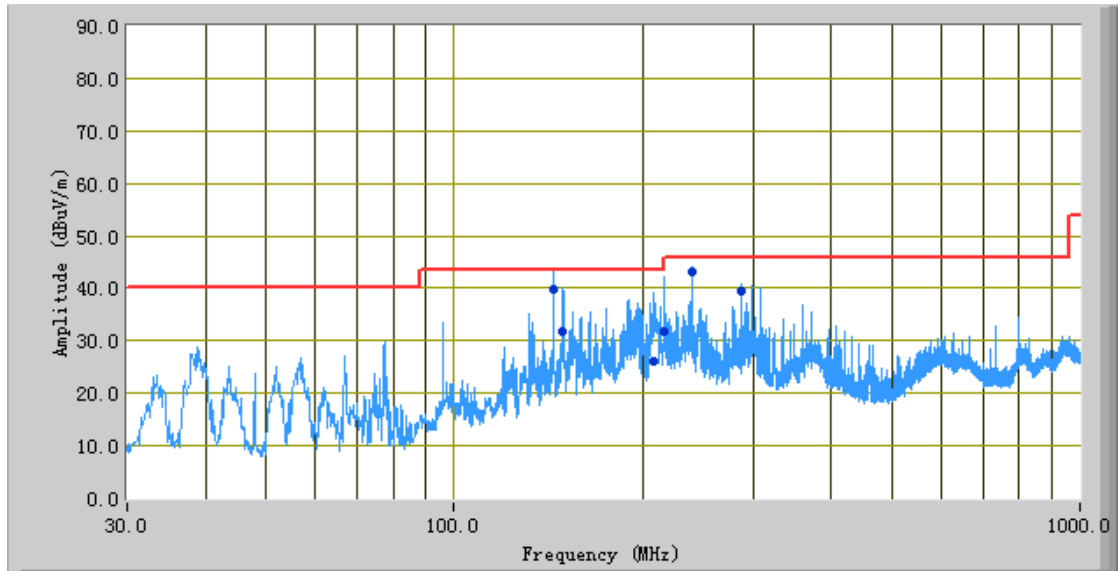
Vertical Polarity Plot @3m

Frequency (MHz)	Quasi Peak (dBµV/m)	Azimuth	Polarity (H/V)	Height (cm)	Factors (dB)	Limit (dBµV/m)	Margin (dB)
38.46	38.87	232.00	V	111.00	-28.44	40.00	-1.13
144.02	40.44	164.00	V	109.00	-31.11	43.50	-3.06
33.52	33.37	232.00	V	110.00	-29.18	40.00	-6.63
239.98	29.92	204.00	V	100.00	-29.90	46.00	-16.08
282.93	28.04	126.00	V	196.00	-29.71	46.00	-17.96
277.90	25.77	175.00	V	250.00	-29.73	46.00	-20.23

Test Mode:	Charging and Downloading(Worse Case)
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(Below 1GHz)

Peak Detector 
 Quasi Peak Limit 



Test Data

Horizontal Polarity Plot @3m

Frequency (MHz)	Quasi Peak (dBµV/m)	Azimuth	Polarity (H/V)	Height (cm)	Factors (dB)	Limit (dBµV/m)	Margin (dB)
144.00	39.80	200.00	H	100.00	-31.45	43.50	-3.70
240.00	43.30	252.00	H	123.00	-28.50	46.00	-2.70
148.94	31.65	118.00	H	198.00	-31.45	43.50	-11.85
216.59	31.76	195.00	H	114.00	-30.29	46.00	-14.24
207.94	26.21	102.00	H	307.00	-30.93	43.50	-17.29
287.99	39.57	325.00	H	118.00	-29.00	46.00	-6.43

Note: The data above 1 GHz which below 20 dB to the limit was not recorded.

Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Due	In use
AC Line Conducted Emissions					
R&S EMI Test Receiver	ESPI3	101216	11/04/2014	11/03/2015	<input checked="" type="checkbox"/>
V-LISN	ESH3-Z5	838979/005	09/27/2014	09/26/2015	<input checked="" type="checkbox"/>
INFOMW Antenna (1 ~18GHz)	JXTXLB- 10180	J2031081120092	10/09/2014	10/08/2015	<input checked="" type="checkbox"/>
SIEMIC Labview Conducted Emissions software	V1.0	N/A	N/A	N/A	<input checked="" type="checkbox"/>
Radiated Emissions					
Hp Spectrum Analyzer	8563E	3821A09023	10/09/2014	10/08/2015	<input checked="" type="checkbox"/>
R&S EMI Receiver	ESPI3	101216	11/04/2014	11/03/2015	<input checked="" type="checkbox"/>
Antenna (30MHz~6GHz)	JB6	A121411	04/15/2014	04/14/2015	<input checked="" type="checkbox"/>
EMCO Horn Antenna (1 ~18GHz)	3115	N/A	11/15/2014	11/14/2015	<input checked="" type="checkbox"/>
INFOMW Antenna (1 ~18GHz)	JXTXLB- 10180	J2031081120092	10/09/2014	10/08/2015	<input checked="" type="checkbox"/>
Horn Antenna (18~40GHz)	AH-840	101013	04/22/2014	04/22/2015	<input checked="" type="checkbox"/>
Microwave Pre-Amp (18~40GHz)	PA-840	181250	05/29/2014	05/28/2015	<input checked="" type="checkbox"/>
Hp Agilent Pre-Amplifier	8447F	1937A01160	10/27/2014	10/26/2015	<input checked="" type="checkbox"/>
MITEQ Pre-Amplifier (0.1 ~ 18GHz)	LPA-6-30	1451709	06/25/2014	06/24/2015	<input checked="" type="checkbox"/>
SIEMIC Labview Radiated Emissions software	V1.0	N/A	N/A	N/A	<input checked="" type="checkbox"/>

Annex B. EUT And Test Setup Photographs

Annex B.i. Photograph: EUT External Photo



Whole Package - Top View 1



Whole Package - Top View 2



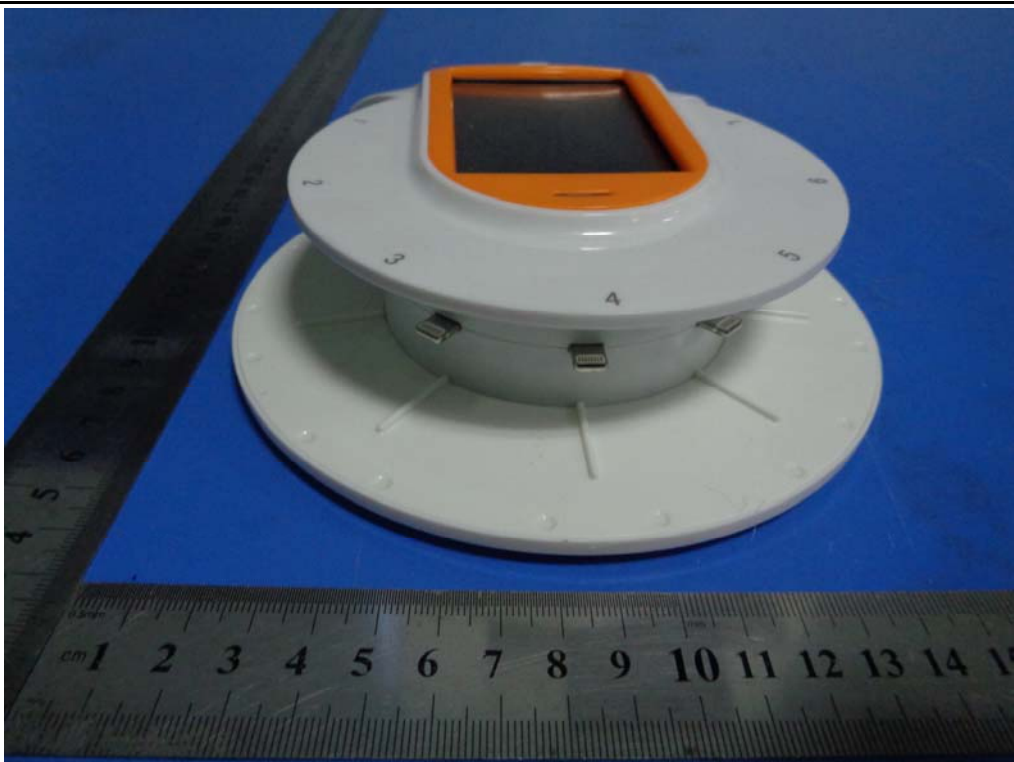
EUT - Front View



EUT - Rear View



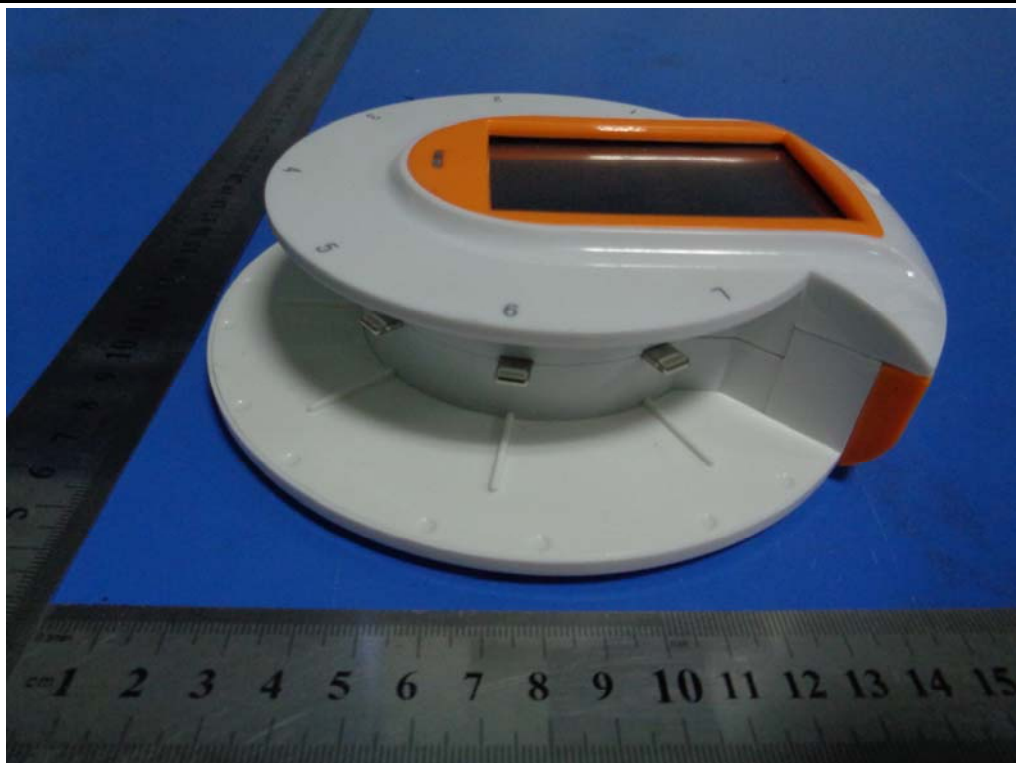
EUT - Top View



EUT - Bottom View

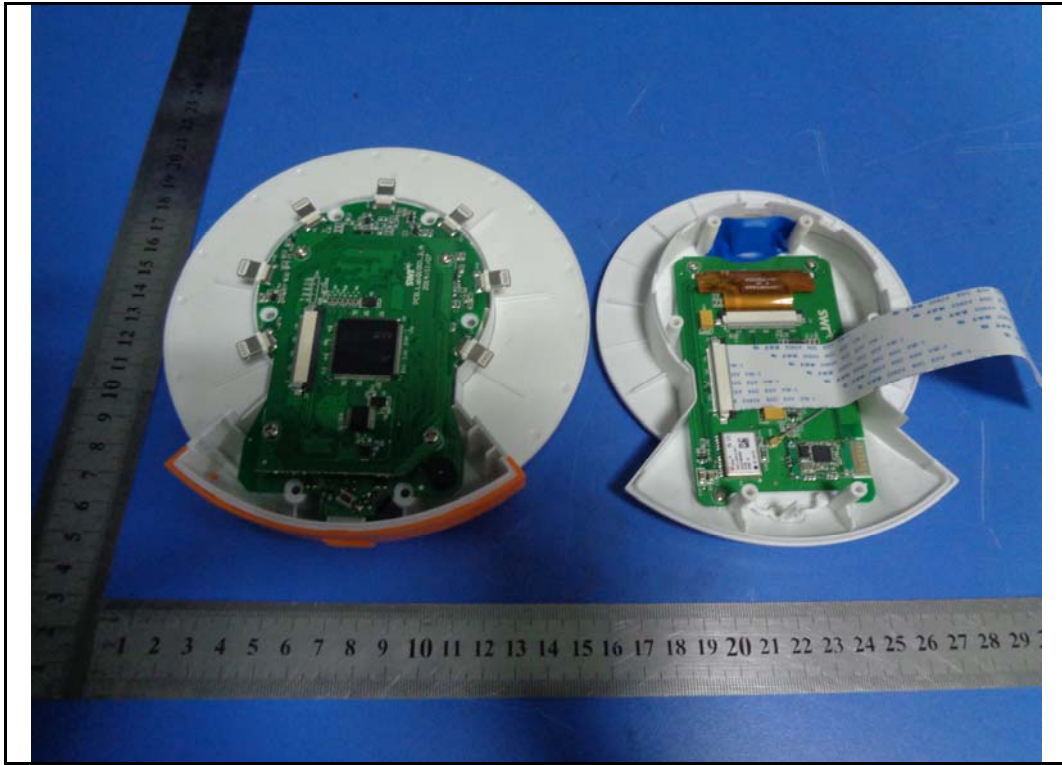


EUT – Left View



EUT – Right View

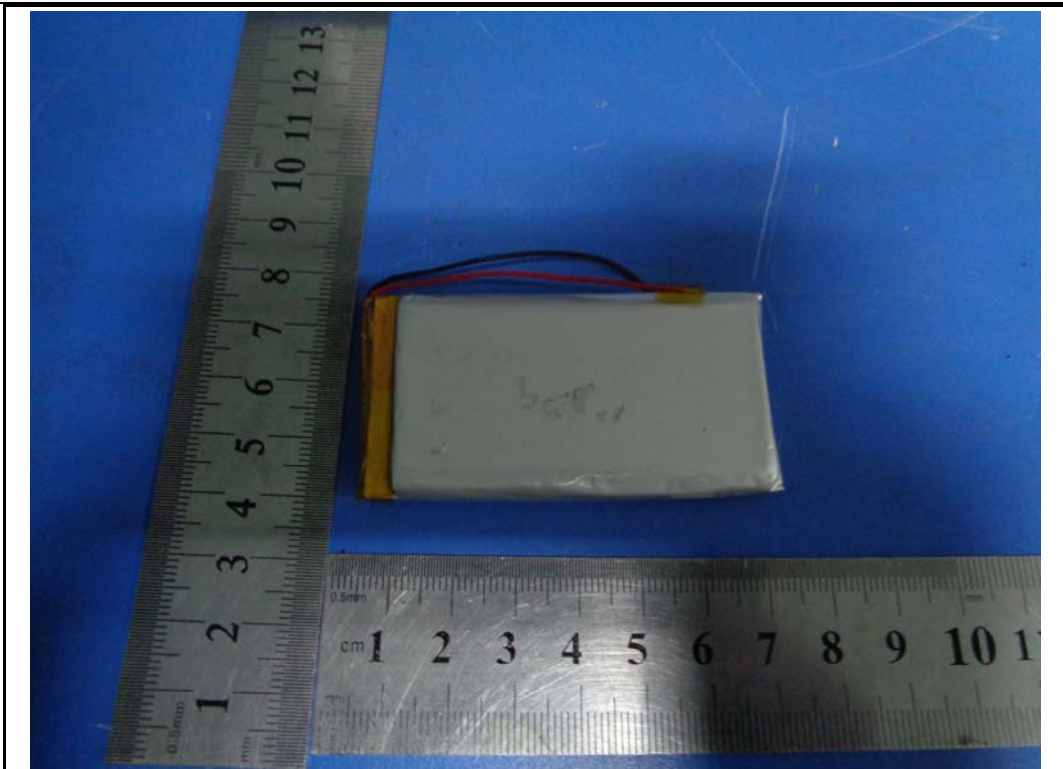
Annex B.ii. Photograph: EUT Internal Photo



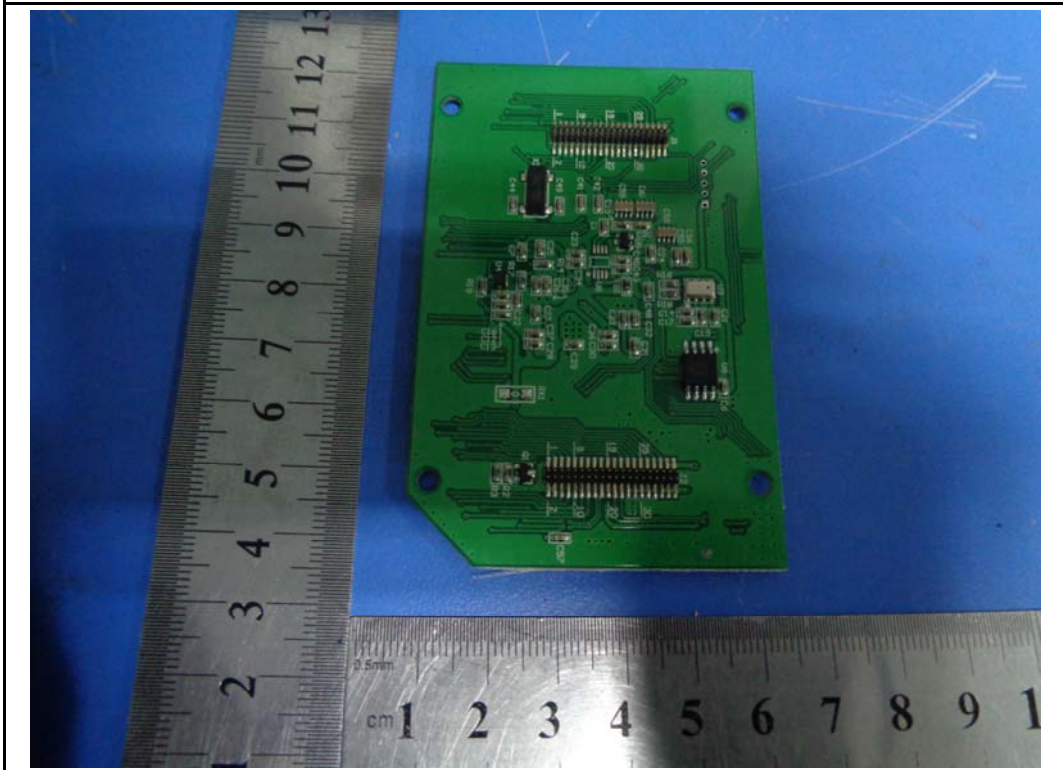
EUT – Uncover Front View



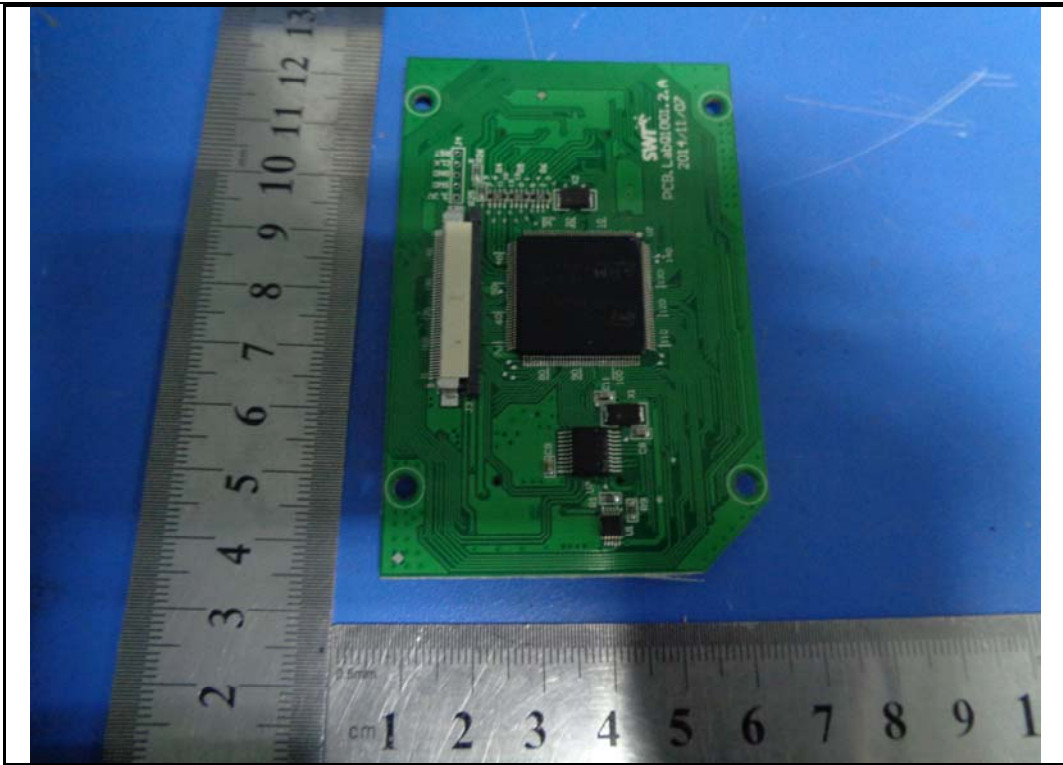
EUT – Battrey Front View



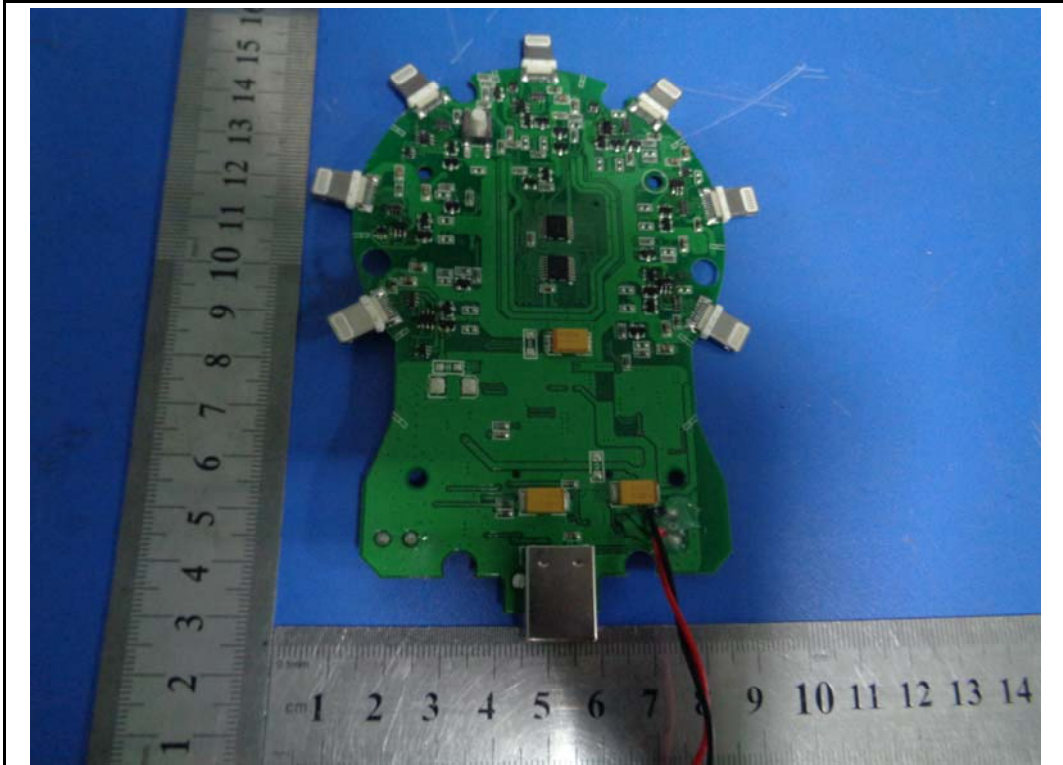
EUT – Battery Rear View



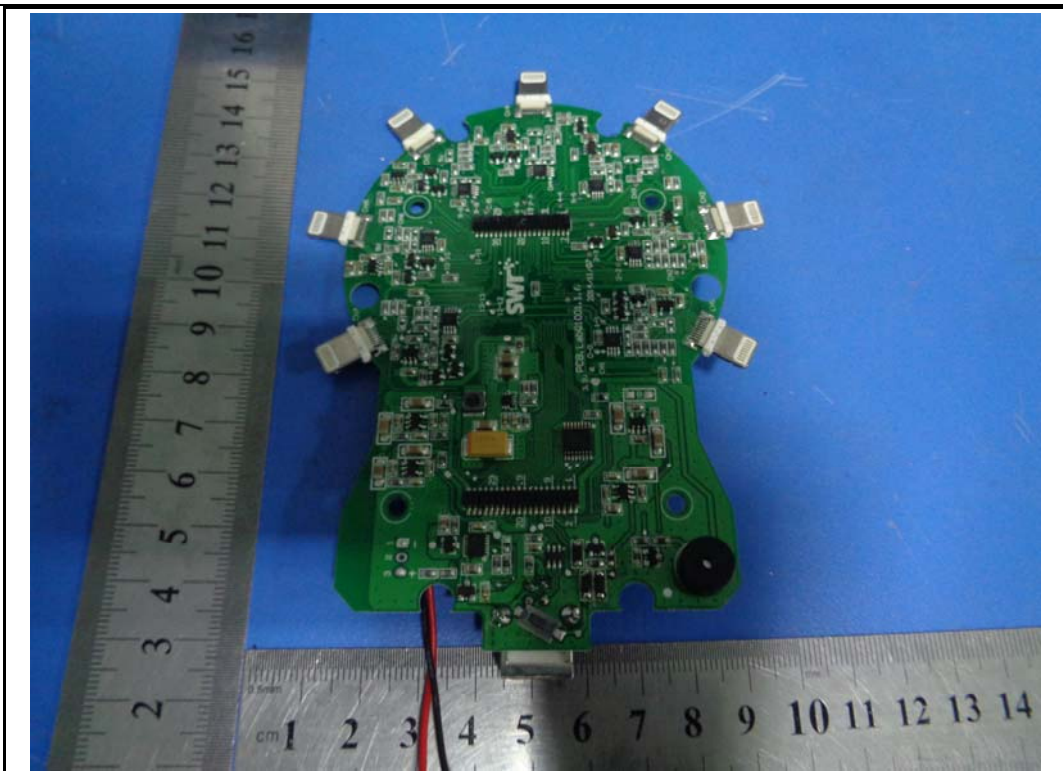
EUT – PCBA 1 Front View



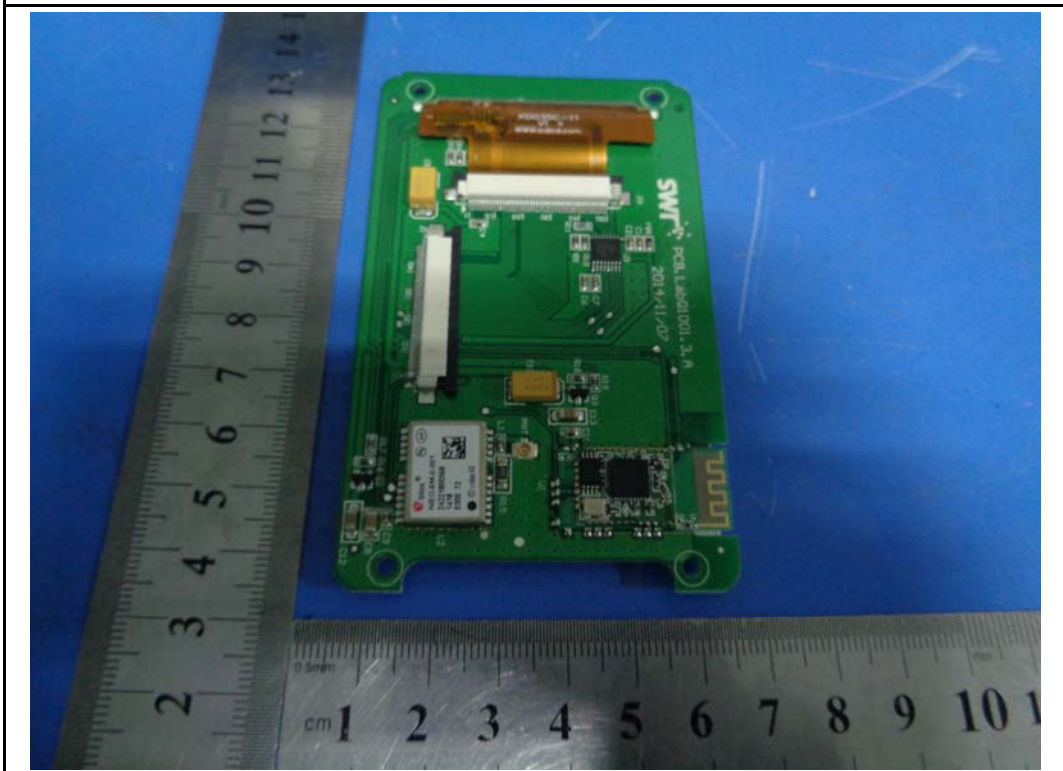
EUT – PCBA 1 Rear View



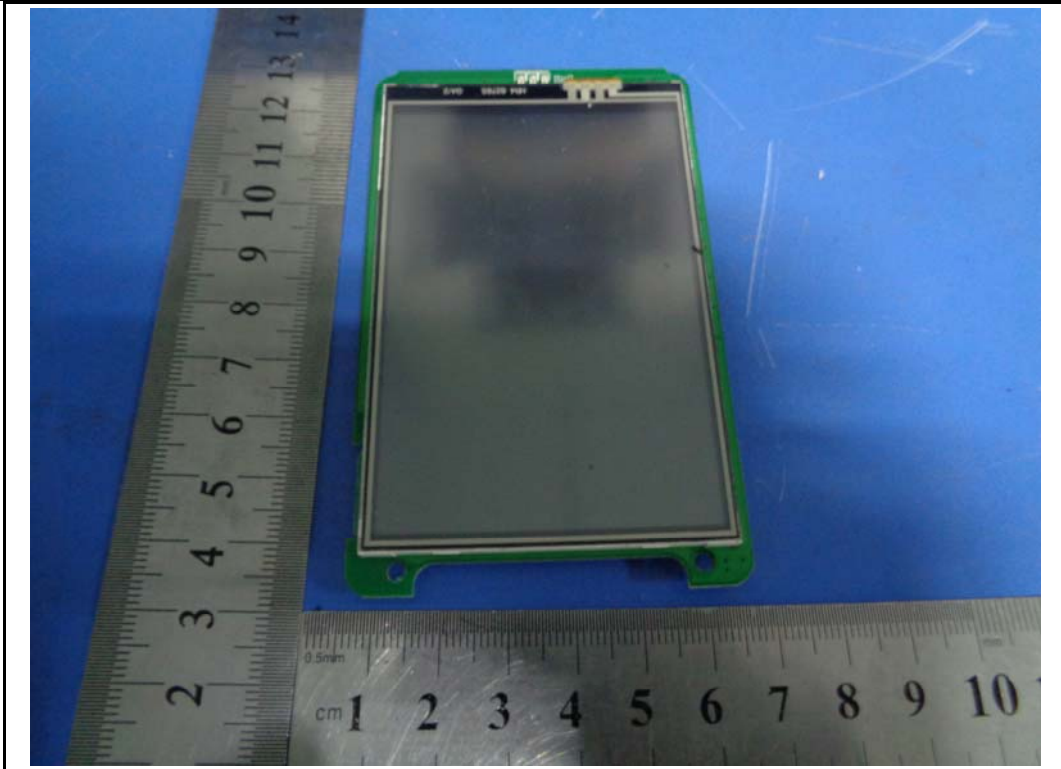
EUT – PCBA 2 Front View



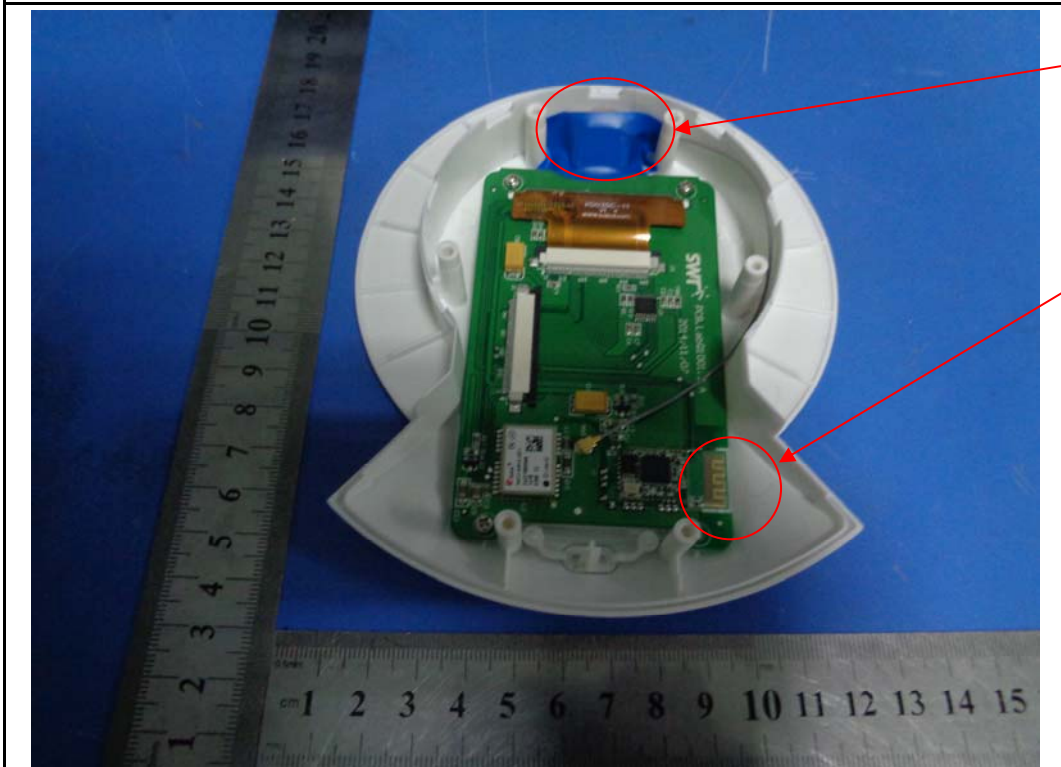
EUT – PCBA 2 Rear View



EUT – PCBA 3 Front View



EUT – PCBA 3 Rear View



GPS Antenna

BLE/Bluetooth Antenna

Antenna – Front View

Annex B.iii. Photograph: Test Setup Photo



Conducted Emissions Setup Front View

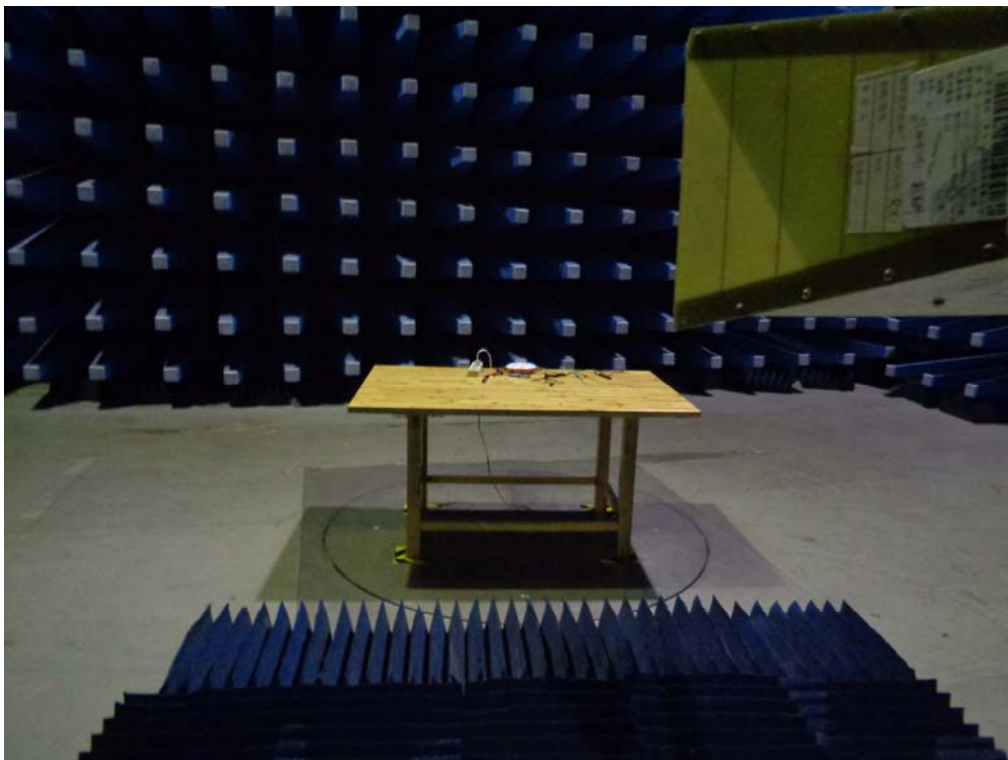


Conducted Emissions Setup Side View

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Radiated Emissions Setup Below 1GHz Front View

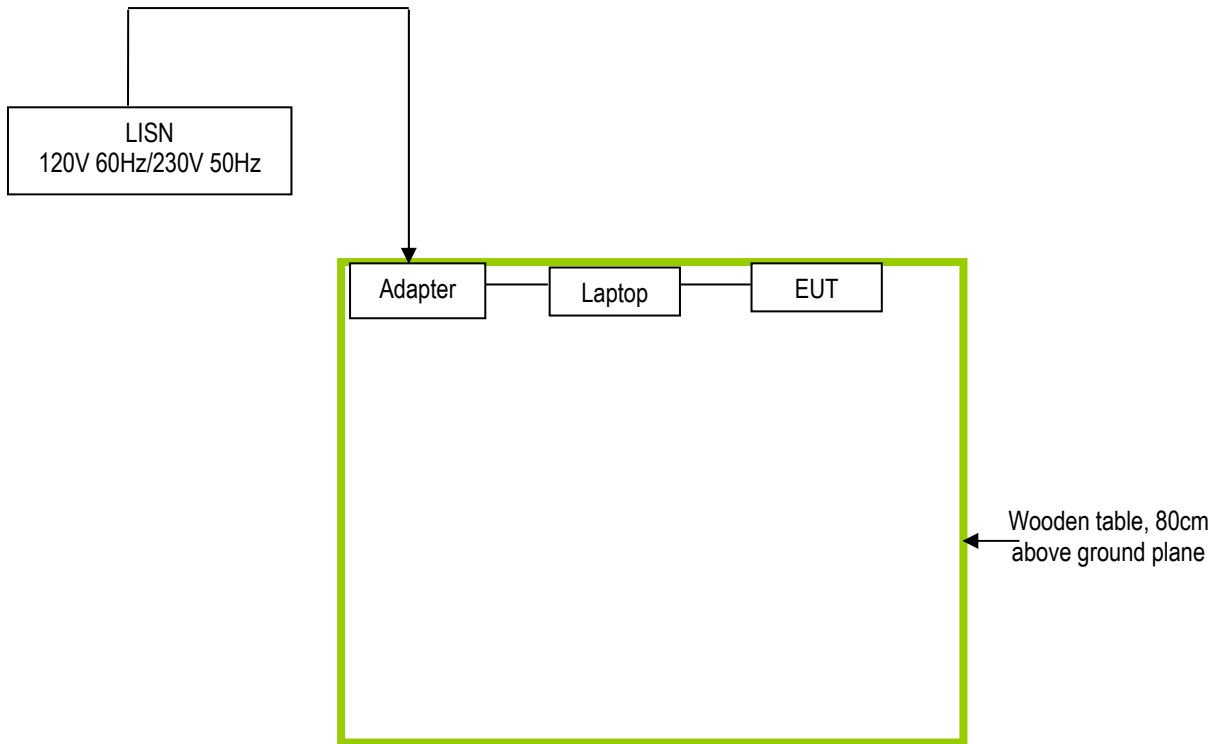


Radiated Emissions Setup Above 1GHz Front View

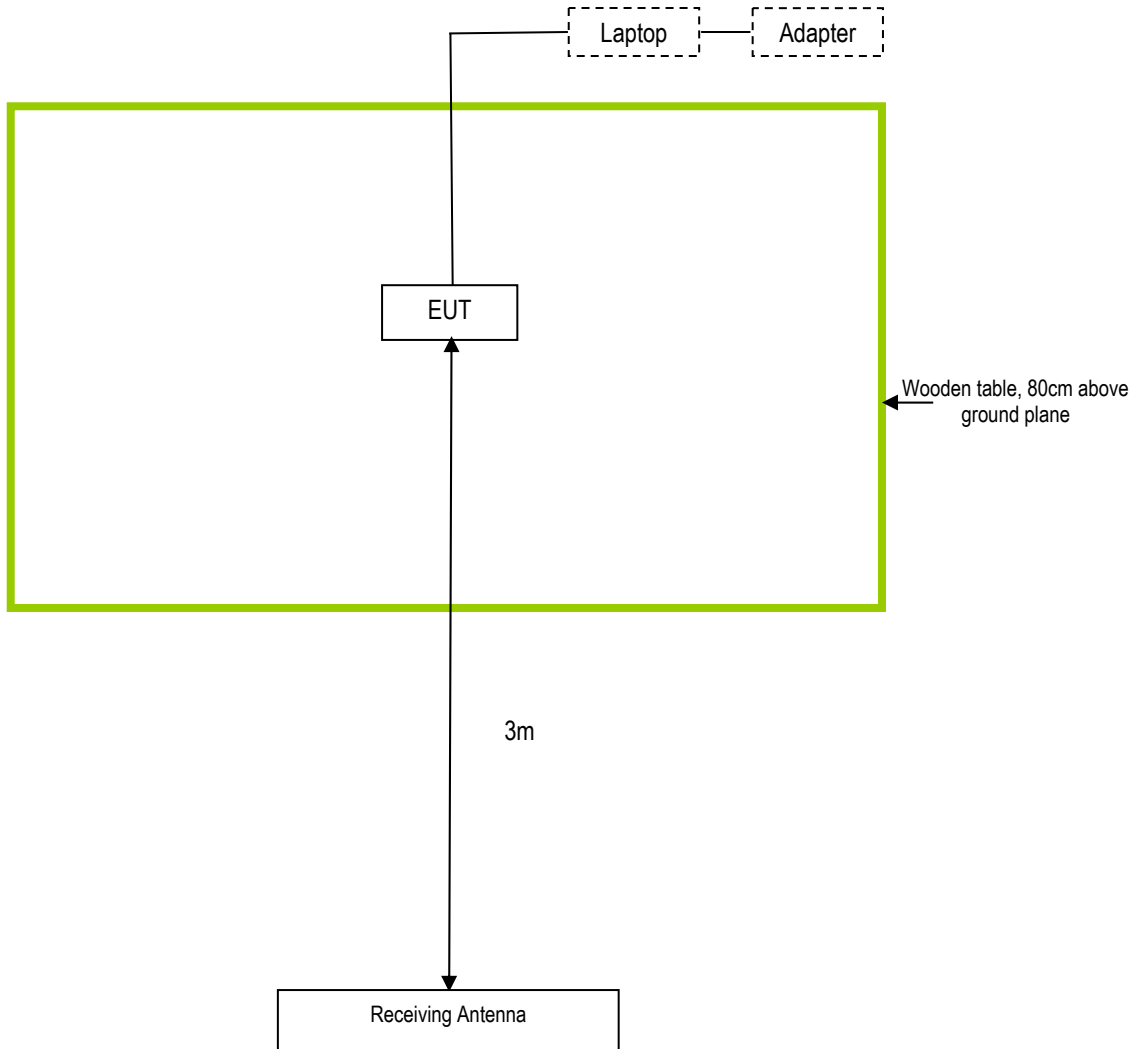
Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

Annex C.i. TEST SET UP BLOCK

Block Configuration Diagram for Conducted Emissions



Block Configuration Diagram for Radiated Emissions



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Annex C. ii. SUPPORTING EQUIPMENT DESCRIPTION

The following is a description of supporting equipment and details of cables used with the EUT.

Manufacturer	Equipment Description	Model	Calibration Date
Gateway	Gateway Laptop	MS2288 & LXWHF02013951C3CA92200	N/A

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Annex D. User Manual / Block Diagram / Schematics / Partlist

Please see Attachment

Annex E. DECLARATION OF SIMILARITY

Five Models of SenseDisc						
No.	Sensors Name	SD00	Models			
			SD0010 Basic (yellow)	SD0020 Advanced (orange)	SD0030 Physics (grey)	SD0040 Biochemistry (blue)
1	Voltage sensor					
2	Current sensor					
3	Temperature sensor					
4	Motion sensor					
5	Force sensor					
6	Photogate sensor					
7	Sound level sensor					
8	Air pressure sensor					
9	Humidity sensor					
10	Light sensor					
11	DO sensor					
12	pH sensor					
13	Conductivity sensor					
14	Heart rate sensor					
15	Thermocouple sensor					
16	mV sensor					
17	UV sensor					
18	UI					
Built-in sensors	GPS					
	Ambient temperature					
	Barometer					
	Accelerometer(3 Axis)					

For our business issue and marketing requirement, we would like to list different model numbers on the FCC reports and certification as following: model SD00, model SD0010, model SD0020, model SD0030, model SD0040 model SD0050. The five models have the same Circuits, and PCB. The difference of these models are have different sensor and color, the different sensor does not affect the RF power . FCC ID: 2AEEJ-SD

Client's signature 
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